

001493152-24-03164410-Q Sintx Technologies, Inc. 2024081320240813163231163231163231 0 0001493152-24-031644 10-Q 58 20240630 20240813 Sintx Technologies, Inc.
0001269026 3841 0001000000 DE 1231 10-Q 3401-33624 24120222 1885 West 2100 STREET SALT LAKE CITY UT 84119 801-839-3516 1885 WEST 2100 STREET SALT LAKE CITY UT
84119 AMEDICA Corp 20121231 AMEDICA CORP 20031104 10-Q 1 form 10-q.htm false Q2 - 12-31 0001269026 0001269026 2024-01-01 2024-06-30 0001269026 2024-08-08 0001269026 2024-06-30 0001269026 2023-12-31 0001269026 SINT:SeriesCConvertiblePreferredStockMember 2024-06-30 0001269026 SINT:SeriesCConvertiblePreferredStockMember 2023-12-31 0001269026
SINT:SeriesDConvertiblePreferredStockMember 2024-06-30 0001269026 SINT:SeriesDConvertiblePreferredStockMember 2023-12-31 0001269026 us-gaap:ProductMember 2024-04-01 2024-06-30 0001269026 us-gaap:ProductMember 2023-01-01 2023-06-30
0001269026 SINT:GrantAndContractMember 2024-04-01 2024-06-30 0001269026 SINT:GrantAndContractMember 2023-04-01 2023-06-30 0001269026 SINT:GrantAndContractMember 2024-01-01 2024-06-30 0001269026 SINT:GrantAndContractMember 2023-01-01 2023-06-30 0001269026 us-gaap:PreferredStockMember 2022-12-31 0001269026 us-gaap:CommonStockMember 2022-12-31 0001269026 us-gaap:AdditionalPaidInCapitalMember 2022-12-31
0001269026 us-gaap:RetainedEarningsMember 2022-12-31 0001269026 2022-12-31 0001269026 us-gaap:PreferredStockMember 2023-03-31 0001269026 us-gaap:CommonStockMember 2023-03-31 0001269026 us-gaap:AdditionalPaidInCapitalMember 2023-03-31 0001269026 us-gaap:RetainedEarningsMember 2023-03-31 0001269026 us-gaap:PreferredStockMember 2023-12-31 0001269026 us-gaap:CommonStockMember 2023-12-31 0001269026 us-gaap:AdditionalPaidInCapitalMember 2023-12-31 0001269026 us-gaap:RetainedEarningsMember 2023-12-31 0001269026 us-gaap:PreferredStockMember 2024-03-31 0001269026 us-gaap:CommonStockMember 2024-03-31 0001269026 us-gaap:AdditionalPaidInCapitalMember 2024-03-31 0001269026 us-gaap:RetainedEarningsMember 2024-03-31 0001269026 us-gaap:PreferredStockMember 2023-01-01 2023-06-30 0001269026 us-gaap:CommonStockMember 2023-01-01 2023-06-30 0001269026 us-gaap:AdditionalPaidInCapitalMember 2023-01-01 2023-06-30 0001269026 us-gaap:RetainedEarningsMember 2023-01-01 2023-06-30 0001269026 us-gaap:PreferredStockMember 2023-04-01 2023-06-30 0001269026 us-gaap:CommonStockMember 2023-04-01 2023-06-30 0001269026 us-gaap:AdditionalPaidInCapitalMember 2023-04-01 2023-06-30 0001269026 us-gaap:RetainedEarningsMember 2023-04-01 2023-06-30 0001269026 us-gaap:PreferredStockMember 2024-01-01 2024-03-31 0001269026 us-gaap:CommonStockMember 2024-01-01 2024-03-31 0001269026 us-gaap:AdditionalPaidInCapitalMember 2024-01-01 2024-03-31 0001269026 us-gaap:RetainedEarningsMember 2024-01-01 2024-03-31 0001269026 us-gaap:PreferredStockMember 2024-04-01 2024-06-30 0001269026 us-gaap:CommonStockMember 2024-04-01 2024-06-30 0001269026 us-gaap:AdditionalPaidInCapitalMember 2024-04-01 2024-06-30 0001269026 us-gaap:RetainedEarningsMember 2024-04-01 2024-06-30 0001269026 us-gaap:PreferredStockMember 2023-06-30 0001269026 us-gaap:CommonStockMember 2023-06-30 0001269026 us-gaap:AdditionalPaidInCapitalMember 2023-06-30 0001269026 us-gaap:RetainedEarningsMember 2023-06-30 0001269026 us-gaap:PreferredStockMember 2024-06-30 0001269026 us-gaap:CommonStockMember 2024-06-30 0001269026 us-gaap:AdditionalPaidInCapitalMember 2024-06-30 0001269026 us-gaap:RetainedEarningsMember 2024-06-30 0001269026 SINT:TwoThousandAndTwentyOneEquityDistributionAgreementMember SINT:MaximGroupLLCMember 2023-10-12 2023-10-12 0001269026 SINT:TwoThousandAndTwentyOneEquityDistributionAgreementMember SINT:MaximGroupLLCMember 2024-06-30 0001269026
SINT:TwoThousandAndTwentyOneEquityDistributionAgreementMember 2024-07-11 2024-07-11 0001269026 SINT:TwoThousandAndTwentyOneEquityDistributionAgreementMember 2024-06-30 0001269026 SINT:TwoThousandAndTwentyOneEquityDistributionAgreementMember 2024-01-01 2024-06-30 0001269026 2023-02-10 2023-02-10 0001269026
SINT:CommonStockWarrantsMember 2023-02-10 2023-02-10 0001269026 SINT:CommonStockAndPrefundedWarrantsMember 2023-02-10 2023-02-10 0001269026
SINT:DerivativeLiabilitiesForCommonStockWarrantsMember 2023-02-10 2023-02-10 0001269026 SINT:AgentWarrantOfferingMember 2023-02-10 2023-02-10 0001269026 2024-02-02 2024-02-02 0001269026 2024-02-02 0001269026 SINT:CommonStockAndPrefundedWarrantsMember 2024-02-02 2024-02-02 0001269026 SINT:ClassEAndClassFWarrantsMember 2024-02-02 2024-02-02 0001269026 SINT:CommonStockWarrantsMember 2024-02-02 2024-02-02 0001269026 SINT:DerivativeLiabilitiesForCommonStockWarrantsMember 2024-02-02 2024-02-02 0001269026
SINT:AgentWarrantOfferingMember 2024-02-02 2024-02-02 0001269026 2024-03-26 2024-03-26 0001269026 2024-03-26 0001269026 2024-04-05 2024-04-05 0001269026 2024-04-05 0001269026 2023-12-14 2023-12-14 0001269026 us-gaap:FairValueInputsLevel1Member us-gaap:FairValueMeasurementsRecurringMember SINT:CommonStockWarrantsMember 2024-06-30 0001269026 us-gaap:FairValueInputsLevel2Member us-gaap:FairValueMeasurementsRecurringMember SINT:CommonStockWarrantsMember 2024-06-30 0001269026 us-gaap:FairValueInputsLevel3Member us-gaap:FairValueMeasurementsRecurringMember SINT:CommonStockWarrantsMember 2024-06-30 0001269026 us-gaap:FairValueInputsLevel1Member us-gaap:FairValueMeasurementsRecurringMember SINT:CommonStockWarrantsMember 2023-12-31 0001269026 us-gaap:FairValueInputsLevel2Member us-gaap:FairValueMeasurementsRecurringMember SINT:CommonStockWarrantsMember 2023-12-31 0001269026 SINT:CommonStockWarrantsMember us-gaap:FairValueInputsLevel3Member 2023-12-31 0001269026 us-gaap:FairValueInputsLevel3Member SINT:CommonStockWarrantsMember 2024-01-01 2024-06-30 0001269026 SINT:CommonStockWarrantsMember us-gaap:FairValueInputsLevel3Member 2024-06-30 0001269026 SINT:CommonStockWarrantsMember SINT:BlackScholesMertonValuationModelMember us-gaap:MeasurementInputRiskFreeInterestRateMember srt:MinimumMember 2024-06-30 0001269026 SINT:CommonStockWarrantsMember SINT:BlackScholesMertonValuationModelMember us-gaap:MeasurementInputRiskFreeInterestRateMember srt:MaximumMember 2024-06-30 0001269026 SINT:CommonStockWarrantsMember SINT:BlackScholesMertonValuationModelMember us-gaap:MeasurementInputExpectedTermMember srt:MinimumMember 2024-06-30 0001269026 SINT:CommonStockWarrantsMember SINT:BlackScholesMertonValuationModelMember us-gaap:MeasurementInputExpectedTermMember srt:MaximumMember 2024-06-30 0001269026 SINT:CommonStockWarrantsMember SINT:BlackScholesMertonValuationModelMember us-gaap:MeasurementInputExpectedTermMember srt:MinimumMember 2023-12-31 0001269026 SINT:CommonStockWarrantsMember SINT:BlackScholesMertonValuationModelMember us-gaap:MeasurementInputExpectedTermMember srt:MaximumMember 2023-12-31 0001269026 SINT:CommonStockWarrantsMember SINT:BlackScholesMertonValuationModelMember us-gaap:MeasurementInputOptionVolatilityMember srt:MinimumMember 2024-06-30 0001269026 SINT:CommonStockWarrantsMember SINT:BlackScholesMertonValuationModelMember us-gaap:MeasurementInputOptionVolatilityMember srt:MaximumMember 2024-06-30 0001269026 SINT:CommonStockWarrantsMember SINT:BlackScholesMertonValuationModelMember us-gaap:MeasurementInputOptionVolatilityMember srt:MinimumMember 2023-12-31 0001269026 SINT:CommonStockWarrantsMember SINT:BlackScholesMertonValuationModelMember us-gaap:MeasurementInputOptionVolatilityMember srt:MaximumMember 2023-12-31 0001269026
SINT:BusinessLoanMember 2021-07-20 0001269026

\$687A \$ 475A Grant and contract revenue\$ 481A \$ 273A \$ 859A \$ 572A Total revenue\$ 859A \$ 508A \$ 1,546A \$ 1,047A Costs of revenue\$ 224A \$ 104A \$ 447A \$ 222A Gross profit\$ 635A \$ 404A \$ 1,099A \$ 825A Operating expenses\$ A \$ A \$ A \$ A Research and development\$ 1,677A \$ 2,148A \$ 3,696A \$ 4,364A General and administrative\$ 1,072A \$ 1,168A \$ 2,195A \$ 2,323A Sales and marketing\$ 256A \$ 308A \$ 502A \$ 618A Grant and contract expenses\$ 340A \$ 244A \$ 613A \$ 540A Total operating expenses\$ 3,345A \$ 3,868A \$ 7,006A \$ 7,845A Loss from operations\$ (2,710)A \$ (3,464)A \$ (5,907)A \$ (7,020) Other income (expenses)\$ A \$ A \$ A \$ A Interest expense\$ (4)A \$ -A \$ (6)A \$ (2) Interest income\$ 23A \$ 47A \$ 42A \$ 84A Gain on disposal of equipment\$ 12A \$ -A \$ 12A \$ -A Change in fair value of derivative liabilities\$ 448A \$ 965A \$ 3,286A \$ 4,971A Offering costs of derivative liabilities\$ -A \$ -A \$ (550)A \$ (786) Other income, net\$ 27A \$ (3)A \$ 33A \$ 5A Total other income (expense), net\$ 506A \$ 1,009A \$ 2,817A \$ 4,272A Net loss before income taxes\$ (2,204)A \$ (2,455)A \$ (3,090)A \$ (2,748) Provision for income taxes\$ -A \$ -A \$ -A \$ -A Net loss\$ (2,204)A \$ (2,455)A \$ (3,090)A \$ (2,748) Deemed dividend related to convertible preferred stock\$ -A \$ -A \$ (26)A \$ -A Net loss attributable to common stockholders\$ (2,204)A \$ (2,481)A \$ (3,090)A \$ (2,774) Net loss per share \$€” basic and diluted\$ A \$ A \$ A \$ A Basic \$€” net loss\$ (3.49)A \$(120.63)A \$(8.61)A \$(173.02) Basic \$€” deemed dividend on conversion of preferred stock\$ -A \$ (1.28)A \$ -A \$ (1.64) Basic \$€” attributable to common stockholders\$ (3.49)A \$(121.91)A \$(8.61)A \$(174.66)A \$ A \$ A \$ A \$ A Diluted \$€” net loss\$ (3.61)A \$(154.13)A \$(13.62)A \$(445.06) Diluted - deemed dividend on conversion of preferred stock\$ -A \$ (1.17)A \$ -A \$ (1.58) Diluted \$€” attributable to common stockholders\$ (3.61)A \$ (155.30)A \$ (13.62)A \$ (446.64)A \$ A \$ A \$ A \$ A Weighted average common shares outstanding\$ A \$ A \$ A \$ A Basic\$ 631,212A \$ 20,351A \$ 4,358,763A \$ 15,883A Diluted\$ 697,868A \$ 22,183A \$ 4,677,564A \$ 16,413A The accompanying notes are an integral part of these condensed consolidated financial statements. A 4 A SINTX Technologies, Inc. Condensed Consolidated Statements of Stockholders\$€” Equity - Unaudited (in thousands, except share and per share data) A A Shares\$ A Amount\$ A Capital\$ A Deficit\$ A Equity\$ A Preferred Stock\$ A Common Stock\$ A Paid-In\$ A Accumulated\$ A Total\$ A Shares\$ A Amount\$ A Capital\$ A Deficit\$ A Equity\$ A Balance as of December 31, 2022A 283A \$ A \$ A \$ A \$ A \$ 2,711A \$ A \$ A \$ A \$ A \$ 268,159A \$ (262,455)A \$ 5,704A Stock based compensation\$ -A \$ -A \$ -A \$ -A \$ 86A \$ -A \$ 86A Common stock issued for cash, net of cash fees\$ -A \$ -A \$ -A \$ 9,900A \$ -A \$ -A \$ 4,457A \$ -A \$ -A \$ 4,457A Prefunded warrants issued for cash, net of cash fees\$ -A \$ -A \$ -A \$ 383A \$ -A \$ 383A Extinguishment of derivative liability upon exercise of warrant\$ -A \$ -A \$ -A \$ -A \$ -A \$ 5,502A \$ -A \$ 5,502A Issuance of common stock from the exercise of prefunded warrants for cash\$ -A \$ -A \$ -A \$ 850A \$ -A \$ -A \$ -A \$ -A \$ -A \$ -A Issuance of common stock from the cashless exercise of warrants\$ -A \$ -A \$ -A \$ 6,688A \$ -A \$ -A \$ -A \$ -A \$ -A \$ -A Redemption of preferred stock\$ (1)A \$ -A \$ -A \$ -A \$ (2)A \$ -A \$ -A \$ (2) Issuance of agent warrants\$ -A \$ -A \$ -A \$ -A \$ 108A \$ -A \$ 108A Round up shares issued in reverse split\$ -A \$ -A \$ 102A \$ -A \$ -A \$ -A \$ -A \$ -A \$ -A \$ -A Net loss\$ -A \$ -A \$ -A \$ -A \$ (293)A \$ (293) Balance as of March 31, 2023A 282A \$ A \$ A \$ 20,251A \$ -A \$ 278,693A \$ (262,748)A \$ 15,945A Stock based compensation\$ -A \$ -A \$ -A \$ -A \$ 71A \$ -A \$ 71A Extinguishment of derivative liability upon exercise of warrant\$ -A \$ -A \$ -A \$ -A \$ -A \$ 251A \$ -A \$ 251A Issuance of common stock from the cashless exercise of warrants\$ -A \$ -A \$ -A \$ 780A \$ -A \$ -A \$ -A \$ -A \$ -A \$ -A Issuance of common stock from the conversion of preferred stock\$ (26)A \$ -A \$ 9A \$ -A \$ -A \$ -A \$ -A \$ -A \$ -A \$ -A Deemed dividend related to the conversion of preferred stock\$ -A \$ -A \$ -A \$ -A \$ (26)A \$ (26) Deemed dividend related to the conversion of preferred stock\$ -A \$ -A \$ -A \$ -A \$ 26A \$ 26A Net loss\$ -A \$ -A \$ -A \$ -A \$ (2,455)A \$ (2,455) Balance as of June 30, 2023A 256A \$ A \$ 21,040A \$ A \$ 279,015A \$ (265,203)A \$ 13,812A \$ A Preferred Stock\$ A Common Stock\$ A Paid-In\$ A Accumulated\$ A Total\$ A Shares\$ A Amount\$ A Capital\$ A Deficit\$ A Equity\$ A Balance as of December 31, 2023A 256A \$ A \$ A \$ A \$ A \$ 26,603A \$ A \$ A \$ A \$ A \$ 279,486A \$ (270,714)A \$ 8,772A Stock based compensation\$ -A \$ -A \$ -A \$ -A \$ 50A \$ -A \$ 50A Common stock issued for cash, net of cash fees\$ -A \$ -A \$ -A \$ 165,797A \$ 2A \$ A \$ 1,582A \$ -A \$ -A \$ 1,584A Prefunded warrants issued for cash, net of cash fees\$ -A \$ -A \$ -A \$ 406A \$ -A \$ 406A Issuance of common stock from the exercise of prefunded warrants for cash\$ -A \$ -A \$ -A \$ 63,000A \$ 1A \$ (1)A \$ -A \$ -A \$ -A \$ -A \$ -A \$ 406A \$ (886)A \$ (886) Balance as of March 31, 2024A 256A \$ A \$ 255,400A \$ 3A \$ 281,523A \$ (271,600)A \$ 9,926A Balance\$ 256A \$ -A \$ 255,400A \$ 3A \$ 281,523A \$ (271,600)A \$ 9,926A Stock based compensation\$ -A \$ -A \$ -A \$ 14A \$ -A \$ 15A \$ -A \$ 15A Common stock issued for cash, net of cash fees\$ -A \$ -A \$ -A \$ 358,000A \$ 4A \$ 1,104A \$ -A \$ 1,108A Extinguishment of derivative liabilities upon the exercise of warrants\$ -A \$ -A \$ -A \$ 79A \$ -A \$ 1A \$ -A \$ 1A Issuance of common stock from the conversion of preferred stock\$ (1)A \$ (1)A \$ -A \$ -A \$ 2,881A \$ -A \$ -A \$ -A \$ -A \$ -A Round up shares issued in reverse split\$ -A \$ -A \$ 131,967A \$ -A \$ -A \$ -A \$ -A \$ -A \$ -A \$ -A Net loss\$ -A \$ -A \$ -A \$ -A \$ (2,204)A \$ (2,204) Balance as of June 30, 2024A 245A \$ A \$ 748,341A \$ 7A \$ 282,643A \$ (273,804)A \$ 8,846A Balance\$ 245A \$ -A \$ 748,341A \$ 7A \$ 282,643A \$ (273,804)A \$ 8,846A The accompanying notes are an integral part of these condensed consolidated financial statements. A 5 A SINTX Technologies, Inc. Condensed Consolidated Statements of Cash Flows - Unaudited (in thousands) A A 2024A 2023A A A Six Months Ended June 30, A A 2024A 2023A Cash Flows From Operating Activities\$ A A \$ A \$ Net loss\$ (3,090)A \$(2,748) Adjustments to reconcile net loss to net cash used in operating activities\$ A \$ A \$ A Depreciation expense\$ 517A \$ 374A Amortization of right of use asset\$ 308A \$ 369A Amortization of intangible assets\$ 2A \$ 3A Stock based compensation\$ 65A \$ 157A Change in fair value of derivative liabilities\$ (3,286)A \$ (4,863) Recovery of written-off accounts receivable\$ (4)A \$ -A Gain on disposal of equipment\$ (12)A \$ -A Changes in operating assets and liabilities\$ A \$ A \$ A Trade accounts receivable\$ A 255A \$ (58) Prepaid expenses and other current assets\$ A 530A \$ (336) Inventories\$ A 202A \$ (146) Accounts payable and accrued liabilities\$ A (152)A \$ (109) Other liabilities\$ A (2)A \$ (357) Payments on operating lease liability\$ A (281)A \$ (357) Net cash used in operating activities\$ A (4,948)A \$ (8,071) Cash Flows From Investing Activities\$ A \$ A \$ A Purchase of property and equipment\$ A (533)A \$ (334) Proceeds from notes receivable, net of imputed interest\$ A 320A \$ -A Proceeds from sale of property and equipment\$ A 40A \$ -A Net cash used in investing activities\$ A (173)A \$ (334) Cash Flows From Financing Activities\$ A \$ A \$ A Proceeds from issuance of warrant derivative liabilities\$ A 3,366A \$ 4,650A Proceeds from issuance of common stock and prefunded warrants, net of cash fees\$ A 3,111A \$ 4,840A Proceeds from issuance of common stock in connection with exercise of warrants\$ 2A \$ -A Payment on debt\$ (141)A \$ -A Redemption of Preferred Stock Series E\$ -A \$ (2) Net cash provided by financing activities\$ A 6,338A \$ 11,488A Net increase in cash and cash equivalents\$ A 1,217A \$ 3,083A Cash and cash equivalents at beginning of period\$ A 3,340A \$ 6,245A Cash and cash equivalents at end of period\$ 4,557A \$ 9,328A \$ A \$ A \$ A Noncash Investing and Financing Activities\$ A \$ A \$ A Debt issued for prepaid insurance\$ 335A \$ -A Agent warrant offering cost allocated to equity\$ A 13A \$ -A Right of use asset for amended lease liability \$€” increase\$ 4A \$ -A Right of use asset for lease liability\$ A \$ A \$ 114A Reduction of derivative liability upon exercise of warrants\$ 1A \$ A 5,753A Par value of common stock upon cashless exercise of warrants\$ -A \$ 15A Par value of common stock upon exercise of prefunded warrants\$ -A \$ 2A \$ A \$ A \$ A Supplemental Cash Flow Information\$ A \$ A \$ A Cash paid for interest\$ 6A \$ 2A The accompanying notes are an integral part of these condensed consolidated financial statements. A 6 A SINTX TECHNOLOGIES, INC. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited) A 1. Organization and Summary of Significant Accounting Policies The condensed consolidated financial statements include the accounts of SINTX Technologies, Inc. (€œSINTX€”) and its wholly-owned subsidiaries, SINTX Armor, Inc. (€œSINTX Armor€”) and Technology Assessment and Transfer, Inc. (TA&T), which are collectively referred to as €œwe€” or €œthe Company€”. SINTX is an advanced ceramics company formed in December 1996, focused on providing solutions in a variety of diverse fields, including biomedical, technical, and antipathogenic applications. SINTX is a company that has grown over time from focusing on the research and development of silicon nitride for use in human interbody implants to becoming an advanced ceramics company engaged in many different fields. The core strength of the Company is the manufacturing, research, and development of advanced ceramics for external partners. The Company presently manufactures ceramic powders and components in its Salt Lake City and Maryland facilities. The SINTX Salt Lake City facility is FDA and ANVISA registered, ISO 13485:2016 certified, and ASD9100D certified. The Company’s products are primarily sold in the United States. A The Company is focused on building revenue generating opportunities in three business industries - antipathogenic, technical (including armor), and biomedical €œ” thereby connecting with current and new customers, partners and manufacturers to help realize the goal of leveraging expertise in high-tech ceramics to create new, innovative opportunities across these sectors. We expect our continued investment in research and development to provide additional revenue opportunities. A The Company’s initial focus was the development and commercialization of products made from silicon nitride for use in spinal fusion and hip and knee replacement applications. SINTX believes it is the first and only manufacturer to use silicon nitride in medical applications primarily focused on spine fusion therapies. Since then, we have developed other applications for our silicon nitride technology as well as utilized our expertise in the use of ceramic materials in other applications. In July 2021, the Company acquired the equipment and obtained certain proprietary know-how rights with which it intends to develop, manufacture, and commercialize protective armor from boron carbide and a composite material of silicon carbide and boron carbide for military, law enforcement and civilian uses. The protective armor operations are housed in SINTX Armor. In June 2022, the Company acquired TA&T, a nearly 40-year-old business with a mission to transition advanced materials and process technologies from a laboratory environment to commercial products and services. A On October 1, 2018, the Company completed the sale of its retail spine business to CTL Medical, a Dallas, Texas-based privately held medical device manufacturer. As a result of the sale, CTL Medical became the exclusive owner of the Company’s portfolio of metal and silicon nitride spine products, as well as access to future silicon nitride spine technologies developed by the Company. The Company’s name, Amedica, was also transferred to CTL Medical, which is now CTL Amedica. The Company serves as CTL’s exclusive OEM provider of silicon nitride products. Manufacturing, R&D, and all intellectual property related to the core, non-spine, biomaterial technology including silicon nitride remains with the Company. A On October 30, 2018, the Company amended its Certificate of Incorporation with the State of Delaware to change its corporate name to SINTX Technologies, Inc. The Company also changed its trading symbol on the NASDAQ Capital Market to €œSINT€”. A The Company’s new corporate brand reflects both the Company’s core competence in the science and production of silicon nitride ceramics and other ceramics, as well as encouraging prospects for the future, as an OEM supplier of spine implants to CTL Amedica, and multiple opportunities outside of spine. A 7 A Basis of Presentation These unaudited condensed consolidated financial statements have been prepared in accordance with the rules and regulations of the United States Securities and Exchange Commission (€œSEC€”) and include all assets and liabilities of the Company. A SEC rules and regulations allow the omission of certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. generally accepted accounting principles (€œU.S. GAAP€”) so long as the statements are not misleading. In the opinion of management, these financial statements and accompanying notes contain all adjustments (consisting of normal recurring adjustments) necessary to present fairly the financial position and results of operations for the periods presented herein. These condensed consolidated financial statements should be read in conjunction with the consolidated audited financial statements and notes thereto contained in the Company’s Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on March 27, 2024. The results of operations for the six months ended June 30, 2024, are not necessarily indicative of the results to be expected for the year ending December 31, 2024. The Company’s significant accounting policies are set forth in Note 1 to the consolidated financial statements in its Annual Report on Form 10-K for the year ended December 31, 2023. A Reverse Stock Split A On May 28, 2024, the Company effected a 1 for 200 reverse stock split of the Company’s common stock. The par value and the authorized shares of the common and preferred stock were not adjusted as a result of the reverse stock split. All common stock shares, equivalents, and per-share amounts for all periods presented in these consolidated financial statements have been adjusted retroactively to reflect the reverse stock split. A Use of Estimates The preparation of condensed consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the condensed consolidated financial statements and the reported amounts of revenue and expenses during the period. Actual results could differ from those estimates. As of June 30, 2024, the most significant estimate relates to derivative liabilities relating to common stock warrants. A Liquidity and Capital Resources The condensed consolidated financial statements have been prepared assuming the Company will continue to operate as a going concern, which contemplates the realization of assets and settlement of liabilities in the normal course of business, and does not include any adjustments to reflect the possible future effects on the recoverability and classification of assets or the amounts and classifications of liabilities that may result from uncertainty related to its ability to continue as a going concern within one year from the date of issuance of these condensed consolidated financial statements. A For the six months ended June 30, 2024, and 2023, the Company incurred a net loss of \$3.1 million and \$2.7 million, respectively, and used cash in operating activities of \$4.9 million and \$8.1 million, respectively. The Company had an accumulated deficit of \$273.8 million and \$270.7 million as of June 30, 2024, and December 31, 2023, respectively. We will require substantial future capital in order to continue to continue operating our business, conduct the research and development and regulatory clearance and approval activities necessary to bring our products to market, and to establish effective marketing and sales capabilities. Our existing capital resources are not sufficient to enable us to fund the completion of the development and commercialization of all of our product candidates. A To date, the Company’s operations have been principally financed from proceeds from the issuance of preferred and common stock and, to a lesser extent, cash generated from product sales. It is anticipated that the Company will continue to generate operating losses and use cash in operations. The Company’s continuation as a going concern is dependent upon its ability to increase sales, and/or raise additional funds through the capital markets. Whether and when the Company can attain profitability and positive cash flows from operations or obtain additional financing is uncertain. A We are actively seeking opportunities to raise additional capital. However, there can be no guarantee that we will be able to obtain such financing on terms favorable to us or at all. A The Company is actively generating additional scientific and clinical data to have it published in leading industry publications. The unique features of our advanced ceramic materials are not well known, and we believe the publication of such data would help sales efforts as the Company approaches new prospects. The Company is also making additional changes to the sales strategy, including a focus on revenue growth by expanding the use of silicon nitride in other areas outside of spinal fusion applications and moving into other advanced ceramic materials outside of silicon nitride. The Company has also acquired equipment and certain proprietary know-how for the purpose of developing, manufacturing and commercializing armored plates made from boron carbide and a composite of boron carbide and silicon carbide for military, law enforcement and other civilian uses. A 8 A On February 25, 2021, the Company entered into an Equity Distribution Agreement (as amended, the €œ2021 Distribution Agreement€”) with Maxim Group LLC (€œMaxim€”), pursuant to which the Company may sell from time to time, shares of the Company’s common stock having an aggregate offering price of up to \$15 million through Maxim, as agent. On October 12, 2023, the Company entered into an amendment to the Distribution Agreement, pursuant to which the expiration date of the Distribution Agreement was extended to the earlier of: (i) the sale of shares having an aggregate offering price of \$15.0 million, (ii) the termination by either Maxim or the Company upon the provision of fifteen (15) days written notice, or (iii) February 25, 2025. No other changes were made to the terms of the Distribution Agreement. The Company currently has registered up to \$3.1 million for sale under the Distribution Agreement, pursuant to the Registration Statement on Form S-3 (File No. 333-274951). As of June 30, 2024, the Company had \$0.07 million available for sale under the Distribution Agreement. On July 11, 2024, the Company filed a Prospectus Supplement with the SEC increasing the amount available for sale under the Distribution Agreement to \$3.1 million. As of June 30, 2024, there have been 12,360 shares of common stock sold under the 2021 Distribution Agreement for gross proceeds of \$1.0 million. The Company is subject to General Instruction I.B.6 of Form S-3 which limits the amounts that we may sell under the registration statement over a 12-month period to an amount equal to or less than one-third of our public float. The shares of the Company’s common stock to be sold under the Distribution Agreement will be sold and issued pursuant to the Form S-3, as amended, which was previously declared effective by the Securities and Exchange Commission, and the related prospectus and one or more prospectus supplements. A On February 10, 2023, the Company closed on a public offering of 10,750 units, with each unit consisting of one share of common stock, or one pre-funded warrant to purchase one share of its common stock, one Class C Warrant to purchase one share of common stock, and one half of one Class D Warrant with each whole Class D Warrant entitling the holder to purchase one share of common stock. Gross proceeds, before deducting offering expenses, totaled approximately \$12.0 million. Of the \$12.0 million of gross proceeds, approximately \$5.4 million were allocated to common stock and prefunded warrants (\$4.8 million net of offering costs) and approximately \$6.7 million were allocated to derivative liabilities (with approximately \$0.7 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense). A On

February 2, 2024, the Company closed on a public offering of 80,000 units, with each unit consisting of one share of its common stock, or one pre-funded warrant to purchase one share of its common stock, one Class E Warrant with each warrant to purchase one share of common stock, and one Class F Warrant with each warrant to purchase one share of common stock. Each unit was sold at a public offering price of \$50.00 resulting in gross proceeds to the Company of \$4 million before deducting offering fees and expenses. The Class E and Class F Warrants in the units will be immediately exercisable at a price of \$50.00 per share. The Class E Warrants will expire five years from the date of issuance and the Class F Warrants will expire eighteen months from the date of issuance. Of the \$4.0 million of gross proceeds, approximately \$0.6 million were allocated to common stock and prefunded warrants (\$0.5 million net of offering costs) and approximately \$3.4 million were allocated to derivative liabilities (with approximately \$0.5 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense). On March 26, 2024, the Company closed on a public offering 142,000 shares of the Company’s common stock, (the “Offering”). Each Share was sold at a public offering price of \$9.40. The aggregate proceeds to the Company from the Offering were approximately \$1.3 million before deducting placement agent fees and other estimated offering expenses payable by the Company. On April 5, 2024, the Company closed on a public offering 358,000 shares of the Company’s common stock, (the “Offering”). Each Share was sold at a public offering price of \$4.20. The aggregate proceeds to the Company from the Offering were approximately \$1.5 million before deducting placement agent fees and other offering expenses payable by the Company. If the Company seeks to obtain additional equity and/or debt financing, such funding is not assured and may not be available to the Company on favorable or acceptable terms and may involve significant restrictive covenants. Any additional equity financing is also not assured and, if available to the Company, will most likely be dilutive to its current stockholders. If the Company is not able to obtain additional debt or equity financing on a timely basis, the impact on the Company will be material and adverse. These uncertainties raise substantial doubt about our ability to continue as a going concern. The condensed consolidated financial statements do not include any adjustments that might result from the outcome of these uncertainties.

9 A Grant and Contract Revenue A Revenues from grants, contracts, and awards provided by governmental agencies are recorded based upon the terms of the specific agreements, which generally provide that revenue is earned when the allowable costs specified in the applicable agreement have been incurred or a milestone has been met. Cash received from federal grants, contracts, and awards can be subject to audit by the grantor and, if the examination results in a disallowance of any expenditure, repayment could be required. A New Accounting Pronouncements Not Yet Adopted A On December 14, 2023, the Financial Accounting Standards Board issued Accounting Standards Update, No. 2023-09 “Improvements to Income Tax Disclosures.” (ASU 2023-09). ASU 2023-09 enhances the detail that a business is required to disclose within its income tax footnote, including, but not limited to, a breakout of the rate reconciliation into more specific categories, such as state and local income tax, and foreign taxes. Additionally, a business must break out specific jurisdictions that encompass greater than or equal to 5% of their state and local, and foreign jurisdictions. The Company will adopt ASU 2023-09 on January 1, 2025. The adoption of this Standard is not expected to have a significant impact on the Company’s financial statements. A The Company has reviewed all other recently issued, but not yet adopted, accounting standards, in order to determine their effects, if any, on its results of operations, financial position or cash flows. Based on that review, the Company believes that no other pronouncements will have a significant effect on its financial statements.

2. Basic and Diluted Net Income (Loss) per Common Share A Basic net income (loss) per share is calculated by dividing the net income (loss) by the weighted-average number of common shares outstanding for the period, without consideration for common stock equivalents. Diluted net loss per share is calculated by dividing the net loss by the weighted-average number of common share equivalents outstanding for the period that are determined to be dilutive. Common stock equivalents are primarily comprised of preferred stock and warrants for the purchase of common stock. The Company had potentially dilutive securities that were not included in the fully diluted loss per share calculation because they would have been antidilutive totaling approximately 79 thousand and 6 thousand as of June 30, 2024, and 2023, respectively.

10 A Below are basic and diluted loss per share data for the three months ended June 30, 2024, which are in thousands except for share and per share data: A Schedule of Basic and Diluted Loss Per Share A Basic Calculation A Effect of Dilutive Warrant Securities A Diluted Calculation A Numerator: A A A A A A A A A A Net loss A \$(2,204) A \$(312) A \$(2,516) Deemed dividend and accretion of a discount A (26) A - A A (26) Net loss attributable to common stockholders A \$(2,774) A \$(4,557) A \$(7,331) A A A A A A A A A A Denominator: A A A A A A A A A A Number of shares used in per common share calculations: A 631,212 A 66,656 A 697,868 A A A A A A A A A A Net loss per common share: A A A A A A A A A A Net loss A \$(173.01) A \$(8,589.28) A \$(445.06) Deemed dividend and accretion of a discount A (1.64) A - A A (1.58) Net loss A \$(3.49) A \$(4.69) A \$(3.61) A Below are basic and diluted loss per share data for the six months ended June 30, 2024, which are in thousands except for share and per share data: A A Basic Calculation A Effect of Dilutive Warrant Securities A Diluted Calculation A Numerator: A A A A A A A A A A Net loss A \$(3,090) A \$(3,283) A \$(6,373) A A A A A A A A A A Denominator: A A A A A A A A A A Number of shares used in per common share calculations: A 358,763 A 108,993 A 467,756 A A A A A A A A A A Net loss per common share: A A A A A A A A A A Net loss A \$(8.61) A \$(30.12) A \$(13.62) A Below are basic and diluted loss per share data for the three months ended June 30, 2023, which are in thousands except for share and per share data: A A A A A A Effect of A A A A A A A A A A Dilutive A A A A A A Basic A Warrant A Diluted A A A A A A Calculation A Securities A A Calculation A Numerator: A A A A A A A A A A Net loss A \$(2,455) A \$(964) A \$(3,419) Deemed dividend and accretion of a discount A (26) A - A A (26) Net loss attributable to common stockholders A \$(2,481) A \$(964) A \$(3,445) A A A A A A A A A A Denominator: A A A A A A A A A A Number of shares used in per common share calculations: A 20,351 A 1,832 A 22,183 A A A A A A A A A A Net loss per common share: A A A A A A A A A A Net loss A \$(120.63) A \$(526.18) A \$(154.13) Deemed dividend and accretion of a discount A (1.28) A - A A (1.17) Net loss attributable to common stockholders A \$(121.91) A \$(526.18) A \$(155.30) A Below are basic and diluted loss per share data for the six months ended June 30, 2023, which are in thousands except for share and per share data: A A A A A A Effect of A A A A A A A A A A Dilutive A A A A A A Basic A Warrant A Diluted A A A A A A Calculation A Securities A A Calculation A Numerator: A A A A A A A A A A Net loss A \$(2,748) A \$(4,557) A \$(7,305) Deemed dividend and accretion of a discount A (26) A - A A (26) Net loss attributable to common stockholders A \$(2,774) A \$(4,557) A \$(7,331) A A A A A A A A A A Denominator: A A A A A A A A A A Number of shares used in per common share calculations: A 15,883 A 4,531 A 16,413 A A A A A A A A A A Net loss per common share: A A A A A A A A A A Net loss A \$(173.01) A \$(8,589.28) A \$(445.06) Deemed dividend and accretion of a discount A (1.64) A - A A (1.58) Net loss attributable to common stockholders A \$(174.65) A \$(8,589.28) A \$(446.64) A 3. Inventories A Inventories consisted of the following (in thousands): A Schedule of Components of Inventory A June 30, 2024 A December 31, 2023 A Raw materials \$713A \$691A WIP A 205A A 426A Finished goods A 102A A 104A A Inventory net A \$1,020A \$1,221A A As of June 30, 2024, inventories totaling approximately \$0.4 million and \$0.6 million were classified as current and long-term, respectively. Inventories classified as current represent the carrying value of inventories as of June 30, 2024, that management estimates will be sold or used by June 30, 2025.

11 A 4. Fair Value Measurements A Financial Instruments Measured and Recorded at Fair Value on a Recurring Basis A The Company has issued certain warrants to purchase shares of common stock, which are considered derivative liabilities because they have registration rights which could require a cash settlement and are re-measured to fair value at each reporting period in accordance with accounting guidance. Fair value is based on the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date, under a three-tier fair value hierarchy which prioritizes the inputs used in measuring fair value as follows: A Level 1 - quoted market prices for identical assets or liabilities in active markets. A A Level 2 - observable prices that are based on inputs not quoted on active markets but corroborated by market data. A A Level 3 - unobservable inputs reflecting management’s assumptions, consistent with reasonably available assumptions made by other market participants. These valuations require significant judgment. A The Company classifies assets and liabilities measured at fair value in their entirety based on the lowest level of input that is significant to their fair value measurement. No financial assets were measured on a recurring basis as of June 30, 2024, and December 31, 2023. The following tables set forth the financial liabilities measured at fair value on a recurring basis by level within the fair value hierarchy as of June 30, 2024, and December 31, 2023 (in thousands): A Schedule of Financial Liabilities Measured at Fair Value on Recurring Basis by Level A A Fair Value Measurements as of June 30, 2024 A Description A Level 1 A Level 2 A Level 3 A Total A Derivative liability A A A A A A A A A A Common stock warrants A A A A A A A A A A \$397A A \$397A A A A Fair Value Measurements as of December 31, 2023 A Description A Level 1 A Level 2 A Level 3 A Total A Derivative liability A A A A A A A A A A Common stock warrants A A A A A A A A A A \$-A A \$304A A \$304A A 12 A The Company did not have any transfers of assets and liabilities between Level 1 and Level 2 of the fair value measurement hierarchy during the six months ended June 30, 2024, and 2023. The following table presents a reconciliation of the derivative liabilities measured at fair value on a recurring basis using significant unobservable inputs (Level 3) during the six months ended June 30, 2024, and 2023 (in thousands): A Schedule of Fair Value Measurement Hierarchy of Derivative Liability A A Common Stock Warrants A Balance as of December 31, 2022 A \$(5,126) Issuance of derivatives A (6,650) Exercise of warrants A 5,753 A Change in fair value A 4,971 A Other A 1A Balance as of June 30, 2023 A \$(1,051) A A A A Balance as of December 31, 2023 A \$(304) Issuance of derivatives A (3,366) Exercise of warrants A 2A Change in fair value A 3,286 A Other A (15) Balance as of June 30, 2024 A \$(397) A Common Stock Warrants A The Company has issued certain warrants to purchase shares of common stock, which are considered derivative liabilities because they have registration rights which could require a cash settlement and are re-measured to fair value at each reporting period in accordance with accounting guidance. As of June 30, 2024, and December 31, 2023, the derivative liability was calculated using the Monte Carlo Simulation valuation. A The assumptions used in estimating the common stock warrant liability using the Monte Carlo simulation valuation model as of June 30, 2024, and December 31, 2023, were as follows: A Schedule of Assumptions used in Estimating Fair Value A A June 30, 2024 A A December 31, 2023 A Weighted-average risk-free interest rate A 4.32%-5.21% A 3.93-4.79 % Weighted-average expected life (in years) A 0.60-4.59 A 1.10-4.12 A Expected dividend yield A -% A -% Weighted-average expected volatility A 135.0%-195.0 % A 113.1%-125.7 % A Other Financial Instruments A The Company’s recorded values of cash and cash equivalents, account and other receivables, accounts payable and accrued liabilities approximate their fair values based on their short-term nature. The recorded value of notes payable approximates the fair value as the interest rate approximates market interest rates. A 5. Accrued Liabilities A Accrued liabilities consisted of the following (in thousands): A Schedule of Accrued Liabilities A June 30, 2024 A December 31, 2023 A Payroll and related expense A \$848A A \$610A Accrued payables A 195A A 163A Other A 515A A 631A Accrued liabilities A 1,558A A 1,404A A 13 A 6. Debt A Business Loan A On July 20, 2021, TA&T entered into a Loan Authorization and Agreement in the amount of approximately \$350,000 (the “Business Loan”). The Company made a one-time \$35,000 buy down payment when acquiring the loan. The Business Loan bears interest at a rate of 3.75% per annum. The Business Loan is secured by a general security interest in all of the assets of TA&T. The business loan was paid in full during the first quarter of 2023 and there was no outstanding balance at June 30, 2024. A Related Party Debt A TA&T is obligated to repay certain personal loans made by the founders of TA&T to TA&T prior to SINTX’s acquisition of TA&T (the Personal Loans). The total amount of the Personal Loans at June 30, 2022 was approximately \$350,000. The Company agreed to repay the outstanding balance of the Personal Loans in (i) 24 equal monthly installments beginning September 1, 2022 and each month thereafter until paid in full as one prior owner’s portion of the Personal Loans totaling \$157,000, and (ii) for the other owner’s portion of the Personal Loans totaling \$193,000. As of June 30, 2024, the related party debt had an outstanding balance of \$7,000. The outstanding balance is being paid in monthly installments ending August 1, 2024. The related party debt is not collateralized and has no interest rate. A Insurance Premium Finance Arrangements A In March 2024, in connection with securing Director and Officer professional liability insurance, the Company entered into a Premium Finance Arrangement to extend the premium payment out for a period of 10 months. The Company paid a total of \$40,000 up front toward the insurance premium and financed approximately \$239,000. The Company will make 10 equal payments under the terms of the Premium Finance Agreement. The Premium Finance Agreement bears interest at an annual percentage rate of 8.510%. As of June 30, 2024, there was an outstanding balance of \$139,000. A In June 2024, in connection with securing commercial liability insurance, the Company entered into a Premium Finance Arrangement to extend the premium payment out for a period of 10 months. The Company paid a total of \$26,000 up front toward the insurance premium and financed approximately \$117,000. The Company will make 10 equal payments under the terms of the Premium Finance Agreement. The Premium Finance Agreement bears interest at an annual percentage rate of 8.75%. As of June 30, 2024, there was an outstanding balance of \$95,000. A 7. Equity A 2024 April Registered Offering A On April 5, 2024, the Company closed on a public offering 358,000 shares of the Company’s common stock, (the “Offering”). Each Share was sold at a public offering price of \$4.20. The aggregate proceeds to the Company from the Offering were approximately \$1.5 million before deducting placement agent fees and other estimated offering expenses payable by the Company. A 2024 March Registered Offering A On March 26, 2024, the Company closed on a public offering 142,000 shares of the Company’s common stock, (the “Offering”). Each Share was sold at a public offering price of \$9.40. The aggregate proceeds to the Company from the Offering were approximately \$1.3 million before deducting placement agent fees and other estimated offering expenses payable by the Company. A 14 A 2024 February Registered Offering A On February 2, 2024, the Company closed on the public offering of 80,000 units consisting of (a) 17,000 units (the “Common Units”) to purchase shares (the “Unit Shares”) of the Company’s Common Stock, par value \$0.01 per share (the “Common Stock”) and (ii) 63,000 units (the “Pre-Funded Warrant Units”) and together with the Common Units, the “Units”) to purchase pre-funded warrants (the “Pre-Funded Warrants”) and each share of Common Stock underlying a Pre-Funded Warrant, a “Pre-Funded Warrant Share”) to purchase up to 63,000 shares of Common Stock, (b) accompanying Class E warrants to purchase 80,000 shares of the Company’s Common Stock (the “Class E Warrants”), and (c) accompanying Class F warrants to purchase 80,000 shares of the Company’s Common Stock (the “Class F Warrants”). The aggregate proceeds to the Company from the Offering were approximately \$4 million before deducting placement agent fees and other offering expenses payable by the Company. The offering was made pursuant to a securities purchase agreement (the “Purchase Agreement”) with certain investors (the “Purchasers”), and a placement agency agreement dated as of January 31, 2024 (the “PAA”) with Maxim Group LLC (the “Placement Agent”). Each Common Unit was sold at a public offering price of \$50.00 and each Pre-Funded Warrant Unit was sold at a public offering price of \$49.98. The Class E Warrants and the Class F Warrants are immediately exercisable (subject to the beneficial ownership cap at 4.99% or 9.99%) for one share of the Company’s Common Stock at an exercise price of \$50.00 per share. The Class E Warrants will expire five years from the date of issuance and the Class F Warrants will expire 18 months from the date of issuance. Each Pre-Funded Warrant is exercisable for one share of the Company’s Common Stock at an exercise price of \$0.0001 per share. The Pre-Funded Warrants are immediately exercisable (subject to the beneficial ownership cap at 4.99% or 9.99%) and may be exercised at any time until all of the Pre-Funded Warrants are exercised in full. The Company engaged Maxim Group LLC as the Company’s sole placement agent for the Offering pursuant to the PAA. Pursuant to the PAA, the Company agreed to pay the Placement Agent a cash placement fee equal to 7.0% of the gross proceeds of the Offering, plus reimbursement of certain expenses and legal fees up to \$100,000. The Company also agreed to issue up to 3,200 Common Stock purchase warrants to the Placement Agent (the “Placement Agent Warrants”). The Placement Agent Warrants are exercisable at an exercise price of \$55.00. The Placement Agent Warrants will be exercisable beginning July 31, 2024, and will expire five years after the commencement of sales in the offering. A 2023 Registered Offering A On February 10, 2023, the Company closed on a public offering of 10,750 units, with each unit consisting of one share of common stock, or one pre-funded warrant to purchase one share of its common stock, one Class C Warrant to purchase one share of common stock, and one half of one Class D Warrant with each whole Class D Warrant entitling the holder to purchase one share of common stock. Each unit was sold at a public offering price of \$1,120.00. The Class C and Class D Warrants are immediately exercisable at a price of \$1,120.00 per share. The Class C and Class D warrants each have a cashless exercise provision entitling the holders to surrender one Class C Warrant and receive 0.4 shares of common stock and on the surrender of one Class D Warrant the holder is entitled to receive 0.8 shares of common stock. The Class C Warrants expire five years from the date of issuance and the Class D Warrants expire three years from the date of issuance. The shares of common stock (or pre-funded warrants in lieu thereof) and accompanying warrants were only purchasable together in this offering but were issued separately and were immediately separable upon issuance. In addition, the company issued a total of 430 common stock warrants to the placement agent, Maxim Group, and the Company’s financial advisor, Ascendant Capital. Gross proceeds, before deducting offering expenses, totaled approximately \$12.0 million. Of the \$12.0 million of gross proceeds, approximately \$5.4 million were allocated to common stock and prefunded warrants (\$4.8 million net of offering costs) and approximately \$6.7 million were allocated to derivative liabilities (with approximately \$0.7 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense). A 2021 Equity Distribution Agreement A Maxim may sell the Shares by any method permitted by law deemed to be an “at-market” offering (the “ATM”) as defined in Rule 415 promulgated under the Securities Act of 1933, as amended (the “Securities Act”), including,

under limitation, sales made directly on the Nasdaq Capital Market. We have no obligation to sell any shares under the ATM and may at any time suspend offers under the 2021 Distribution Agreement. On October 12, 2023, the Company entered into an amendment to the Distribution Agreement, pursuant to which the expiration date of the Distribution Agreement was extended to the earlier of: (i) the sale of shares having an aggregate offering price of \$15.0 million, (ii) the termination by either Maxim or the Company upon the provision of fifteen (15) days written notice, or (iii) February 25, 2025. No other changes were made to the terms of the Distribution Agreement. Under the terms of the Distribution Agreement, Maxim will be entitled to a transaction fee at a fixed rate of 2.0% of the gross sales price of Shares sold under the 2021 Distribution Agreement. The Company will also reimburse Maxim for certain expenses incurred in connection with the Distribution Agreement and agreed to provide indemnification and contribution to Maxim with respect to certain liabilities under the Securities Act and the Securities Exchange Act of 1934, as amended. The Company currently has registered up to \$3.1 million for sale under the Distribution Agreement, pursuant to the Registration Statement on Form S-3 (File No. 333-274951). On July 11, 2024, the Company filed a Prospectus Supplement with the SEC increasing the amount available for sale under the Distribution Agreement to \$3.1 million. As of June 30, 2024, there have been 12,360 shares of common stock sold under the 2021 Distribution Agreement for gross proceeds of \$1.0 million. Because the company's public float is less than \$75 million, the Company is subject to General Instruction I.B.6 of Form S-3 which limits the amounts that we may sell under the registration statement over a 12-month period to an amount equal to or less than one-third of our public float. The shares of the Company's common stock to be sold under the Distribution Agreement will be sold and issued pursuant to the Form S-3, as amended, which was previously declared effective by the Securities and Exchange Commission, and the related prospectus and one or more prospectus supplements.

A 15 A 8. Stock-Based Compensation A summary of the Company's outstanding stock option activity for the six months ended June 30, 2024, and 2023 is as follows:

	Schedule of Stock Option Activity
June 30, 2024	Weighted-Average Remaining Contractual Intrinsic Options Exercise Price Life Value As of December 31, 2024
60A	\$21,954A 6.9A \$- GrantedA -A -A ExercisedA -A -A -A ForfeitedA -A -A -A ExpiredA (1)A 891,768,343A -A -A -A As of June 30, 2024
59A	\$16,117A 6.3A \$- Exercisable at June 30, 2024
56A	\$24,932A 6.5A \$- Vested and expected to vest at June 30, 2024
47A	\$16,145A 6.2A \$- June 30, 2023
Weighted-Average Remaining Contractual Intrinsic Options Exercise Price Life Value As of December 31, 2023	
60A	\$46,800A 6.9A \$- GrantedA -A -A -A ExercisedA -A -A -A ForfeitedA -A -A -A ExpiredA -A -A -A As of June 30, 2023
60A	\$24,000A 7.4A \$- Exercisable at June 30, 2023
45A	\$62,200A 7.4A \$- Vested and expected to vest at June 30, 2023
51A	\$23,800A 7.4A \$- The Company estimates the fair value of each stock option on the grant date using the Black-Scholes-Merton valuation model, which requires several estimates including an estimate of the fair value of the underlying common stock on grant date. The expected volatility was based on an average of the historical volatility of the Company. The expected term was contractual life of option. The risk-free interest rate was based on the U.S. Treasury yield curve in effect at the time of grant for the expected term of the option. The Company did not grant any stock options during the first quarter of 2023.
Of the 60 options outstanding as of June 30, 2024, 18 were awarded to non-executive members of the board of directors. A unrecognized stock-based compensation as of June 30, 2024, is as follows (in thousands):	
Schedule of Unrecognized Stock-based Compensation	Weighted Average Unrecognized Stock-Based Remaining Recognition Compensation (in years)
Stock options	\$A 1A 26A 0.3A Stock grants
\$25A 2.0A 9. Commitments and Contingencies	The Company has executed agreements with certain executive officers of the Company which, upon the occurrence of certain events related to a change in control, call for payments to the executives up to three times their annual salary and accelerated vesting of previously granted stock options.
From time to time, the Company is subject to various claims and legal proceedings covering matters that arise in the ordinary course of its business activities. Management believes any liability that may ultimately result from the resolution of these matters will not have a material adverse effect on the Company's consolidated financial position, operating results or cash flows.	16 A 10. Leases
The Company has entered into multiple operating leases from which it conducts its business. A SINTX With respect to SINTX operations, the Company leases 30,764 square feet of office, warehouse and manufacturing space under a single operating lease. This lease expires in October 2031. The lease has one five-year extension option. A SINTX Armor A On August 19, 2021, the Company, on behalf of SINTX Armor, entered into an Industrial Lease Agreement (the "SINTX Armor Lease") pursuant to which the Company has agreed to lease approximately 10,936 square feet of office and manufacturing space from which SINTX Armor will conduct its operations. The term of the SINTX Armor Lease is 122 months through October 2031. A TA&T In connection with operation of its business, TA&T has entered into various leases for approximately 15,840 square feet of office and manufacturing space from which it conducts its research, development and manufacturing activities. The leases have various expiration dates ranging from July 2025 through April 2030. Subsequent to December 31, 2023, we entered into an amended lease agreement reducing this area to 13,560 square feet. The leases have various expiration dates ranging from July 2024 through April 2025. A Leases with an initial term of 12 months or less are not recorded on the balance sheet. Lease expense is recognized on a straight-line basis over the term of the lease. The Company accounts for lease components separately from the non-lease components. The depreciable life of the assets and leasehold improvements are limited by the expected lease term. A As of June 30, 2024, the operating lease right-of-use assets totaled approximately \$3.8 million, and the operating lease liability totaled approximately \$3.9 million. Non-cash operating lease expense during the six months ended June 30, 2024 and 2023, totaled approximately \$0.3 and \$0.4 million, respectively. As of June 30, 2024, the weighted-average discount rate for the Company's operating lease was 8.7%. A Operating lease future minimum payments together with the present values as of June 30, 2024, are summarized as follows:	
Schedule of Operating Lease Future Minimum Payments Years Ending December 31,	June 30, 2024
2024	\$415A 2025A 738A 2026A 668A 2027A 688A 2028A 709A Thereafter
2,124A Total future minimum lease payments	5,342A Less amounts representing interests
(1,419) Present value of lease liability	3,923A A A Current-portion of operating lease liability
494A Long-term portion operating lease liability	3,429A 11. Subsequent Events
Reverse Split A On May 23, 2024, the Company announced that its board of directors had declared a 1-for-200 reverse stock split of the Company's common stock. The reverse stock split became effective on May 28, 2024 (the "Effective Date") at 12:01 AM Eastern. The company's common stock began trading on a split-adjusted basis on May 28, 2024, under the current trading symbol "SINT". The reverse stock split was primarily intended to bring the Company into compliance with the minimum bid price requirements for maintaining its listing on the Nasdaq Capital Market. The new CUSIP number for the Company's shares of common stock following the reverse split will be 829392 703. As a result of the reverse stock split, every 200 shares of the Company's common stock issued and outstanding were automatically reclassified into one new share of common stock. Proportionate adjustments were made to the conversion and exercise prices and the number of shares underlying the Company's outstanding warrants, preferred stock, equity awards and the number of shares reserved under the Company's equity incentive plan. The reverse stock split did not affect the number of authorized shares of common stock or the par value of the common stock. The reverse stock split will affect all stockholders uniformly and will not alter any stockholder's percentage interest in the company, except to the extent that the reverse stock split would result in a stockholder owning a fractional share. Any fractional shares of common stock resulting from the reverse stock split will be rounded up to the nearest whole share and no stockholders will receive cash in lieu of fractional shares. A 17 A NASDAQ Compliance A On June 11, 2024, the Company received notice from The Nasdaq Stock Market LLC ("Nasdaq") that the Company has evidenced compliance with the \$1.00 minimum bid price requirement for continued listing on The Nasdaq Capital Market under Nasdaq Listing Rule 5550(a)(2) (the "Bid Price Rule"). The Company remains subject to a Mandatory Panel Monitor, as that term is defined in Listing Rule 5815(d)(4)(B), for a period of one year from June 11, 2024. If, within the one-year period, the Company fails to satisfy the minimum \$1.00 closing bid price threshold for 30 consecutive business days, Nasdaq will issue a delist determination rather than provide the Company with a grace period to regain compliance with the Bid Price Rule. In that event, the Company would have the opportunity to request a new hearing to address the deficiency. A Appointment of CEO and President A On August 1, 2024, the board of directors appointed Eric Olson to the office of Chief Executive Officer and President. B. Sonny Bal, MD, continues to serve on the Company's board of directors in the position of Chairman. A Company-Wide Reduction in Workforce A On August 8, 2024, the Board of Directors approved a plan to implement a Company-wide reduction in workforce. This decision is part of the Company's ongoing strategic review of its operations aimed at improving operational efficiency and reducing costs. The reduction in force will reduce the number of employees of the Company from 40 to 23. David O'Brien's employment as the Company's Executive Vice President and Chief Operating Officer was terminated as part of the reduction in force. The Company is currently assessing the costs associated with this decision, including employee severance. These costs will be disclosed in the Company's future financial statements as more information becomes available. A Cease Efforts to Make the Armor Plant Operational A On August 12, 2024, the Board of Directors of the Company approved a plan to cease efforts to make the armor plant operational. This decision was made to streamline operations and focus on core business areas that align with the Company's long-term strategic goals. The armor plant has not been fully operational since the acquisition of the armor equipment in July 2021 and has been completely shut down since October 2023 due to the malfunctioning of the sintering furnace. A In connection with this decision the Company expects to incur an impairment charge of approximately \$4.5 million. This charge primarily relates to the write-down of certain long-lived assets associated with the Armor plant to their estimated fair value. The impairment charge will be reflected in the Company's financial statements for the quarter ended September 30, 2024. The Company is currently assessing other costs associated with this decision, including employee severance and other exit costs. These costs will be disclosed in the Company's future financial statements as more information becomes available. A The Company's insurance carrier has determined that a covered loss occurred when the sintering furnace malfunctioned, and coverage is available for the Company's repair of the sintering furnace. However, the Company's efforts to fully repair the damaged furnace continue to be delayed. Management will work with the insurance company to continue to fund the repair of the furnace. When the furnace is fully repaired, management hopes to sell the furnace, and related equipment, to a third party. However, the full repair and sale of the furnace, and related equipment, cannot be assured. Therefore, in the calculation of the \$4.5 million estimated impairment charge, management has assumed no proceeds will be received from a potential sale of the furnace and related equipment. A 18 A ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS A You should read the following discussion and analysis of our financial condition and results of operations in conjunction with our consolidated financial statements for the year ended December 31, 2023 and the notes thereto, along with Management's Discussion and Analysis of Financial Condition and Results of Operations, included in our Annual Report on Form 10-K for the year ended December 31, 2023, filed separately with the U.S. Securities and Exchange Commission. This discussion and analysis contains forward-looking statements based upon current beliefs, plans, expectations, intentions and projections that involve risks, uncertainties and assumptions, such as statements regarding our plans, objectives, expectations, intentions and projections. Our actual results and the timing of selected events could differ materially from those anticipated in these forward-looking statements as a result of several factors, including those set forth under the Risk Factors section of our Annual Report on Form 10-K for the year ended December 31, 2023, and any updates to those risk factors filed from time to time in our Quarterly Reports on Form 10-Q and in other filings with the Securities and Exchange Commission we may make from time-to-time. A Overview A SINTX Technologies is an advanced ceramics company formed in December 1996, focused on providing solutions in a variety of biomedical, technical, and antipathogenic applications. We have grown from focusing primarily on the research, development and commercialization of medical devices manufactured with silicon nitride to becoming an advanced ceramics company engaged in diverse fields, including biomedical, technical and antipathogenic applications. This diversification enables us to focus on our core competencies which are the manufacturing, research, and development of products comprised from advanced ceramic materials for external partners. We seek to connect with new customers, partners and manufacturers to help them realize the goal of leveraging our expertise in advanced ceramics to create new, innovative products across these sectors. A SINTX Core Business A Biomedical Applications: Since its inception, SINTX has been focused on medical grade silicon nitride. SINTX biomedical products have been shown to be biocompatible, bioactive, antipathogenic, and to have superb bone affinity. Spinal implants made from SINTX silicon nitride have been successfully implanted in humans since 2008 in the US, Europe, Brazil, and Taiwan. This established use, along with its inherent resistance to bacterial adhesion and bone affinity suggests that it may also be suitable in other fusion device applications such as arthroplasty implants, foot wedges, and dental implants. Bacterial infection of any biomaterial implants is always a concern. SINTX silicon nitride has been shown to be resistant to bacterial colonization and biofilm formation, making it antibacterial. SINTX silicon nitride products can be polished to a smooth and wear-resistant surface for articulating applications, such as bearings for hip and knee replacements. A We believe that silicon nitride has a superb combination of properties that make it suited for long-term human implantation. Other biomaterials are based on bone grafts, metal alloys, and polymers- all of which have well-known practical limitations and disadvantages. In contrast, silicon nitride has a legacy of success in the most demanding	

relative to our cost of revenue. Á Research and Development Expenses Á Our research and development costs are expensed as incurred. Research and development costs consist of engineering, product development, clinical trials, test-part manufacturing, testing, developing and validating the manufacturing process, manufacturing, facility and regulatory-related costs. Research and development expenses also include employee compensation, employee and non-employee stock-based compensation, supplies and materials, consultant services, and travel and facilities expenses related to research and development activities. Á We expect to incur additional research and development costs as we continue to develop new medical devices, industrial and ceramic armor products, product candidates for antipathogenic applications, and other products which may increase our total research and development expenses. Á General and Administrative Expenses Á General and administrative expenses consist primarily of salaries, benefits and other related costs, including stock-based compensation for certain members of our executive team and other personnel employed in finance, compliance, administrative, information technology, customer service, executive and human resource departments. General and administrative expenses also include other expenses not part of the other cost categories mentioned above, including facility expenses and professional fees for accounting and legal services. Á 21 Á Á RESULTS OF OPERATIONS Á The following is a tabular presentation of our unaudited condensed consolidated operating results for the three and six months ended June 30, 2024 and 2023 (in thousands): Á Á Á Three Months Ended June 30, Á Á Á Á Á Six Months Ended June 30, Á Á Á Á Á Á Á 2024Á Á 2023Á Á ChangeÁ Á ChangeÁ Á 2024Á Á 2023Á Á ChangeÁ Á ChangeÁ Á 2024Á Á 2023Á Á ChangeÁ Á ChangeÁ Á Product revenueÁ \$378Á Á \$235Á Á \$143Á Á Á 61Á Á \$687Á Á \$475Á Á Á 45Á Á Grant and contract revenueÁ Á 481Á Á Á 273Á Á Á 208Á Á Á 76Á Á Á 859Á Á Á 572Á Á Á 287Á Á Á 50Á Á Total revenueÁ Á 859Á Á Á 508Á Á Á 351Á Á Á 69Á Á Á 1,546Á Á Á 1,047Á Á Á 499Á Á Á 48Á Á Cost of revenueÁ Á 224Á Á Á 104Á Á Á 120Á Á Á 115Á Á Á 447Á Á Á 222Á Á Á 225Á Á Á 101Á Á Gross profitÁ Á 635Á Á Á 404Á Á Á 231Á Á Á 57Á Á Á 1,099Á Á Á 825Á Á Á 274Á Á Á 33Á Á Á Á Á Á Á Á Á Á Á Á Á Á Á Á Á Operating expenses:Á Research and developmentÁ Á 1,677Á Á Á 2,148Á Á Á (471)Á Á Á -22Á Á Á 3,696Á Á Á 4,364Á Á Á (668)Á Á Á -15Á Á General and administrativeÁ Á 1,072Á Á Á 1,168Á Á Á (96)Á Á Á -8Á Á Á 2,195Á Á Á 2,323Á Á Á (128)Á Á Á -6Á Á Sales and marketingÁ Á 256Á Á Á 308Á Á Á (52)Á Á Á -17Á Á Á 502Á Á Á 618Á Á Á (116)Á Á Á -19Á Á Grant and contract expensesÁ Á 340Á Á Á 244Á Á Á 96Á Á Á 39Á Á Á 613Á Á Á 540Á Á Á 73Á Á Á 14Á Á Total operating expensesÁ Á 3,345Á Á Á 3,868Á Á Á (523)Á Á Á -14Á Á Á 7,006Á Á Á 7,845Á Á Á (839)Á Á Á -11Á Á Loss from operationsÁ Á (2,710)Á Á Á (3,464)Á Á Á 754Á Á Á -22Á Á Á (5,907)Á Á Á (7,020)Á Á Á 1,113Á Á Á -16Á Á Other income (expense)Á Á 506Á Á Á 1,009Á Á Á (503)Á Á Á -50Á Á Á 2,817Á Á Á 4,272Á Á Á (1,455)Á Á Á -34Á Á Net loss before taxesÁ Á (2,204)Á Á Á (2,455)Á Á Á 251Á Á Á -10Á Á Á -10Á Á Á (3,090)Á Á Á (2,748)Á Á Á (342)Á Á Á 12Á Á Revenue Á For the three months ended June 30, 2024, and 2023 total product revenue increases \$0.1 million, or 61% as compared to the same period in 2023. During the quarter ended June 30, 2024, grant and contract revenue increased \$0.2 million or 76% as compared to the same period in 2023. Á For the six months ended June 30, 2024, total product revenue increased \$0.2 million, or 45% as compared to the same period in 2023. During the six months ended June 30, 2024, grant and contract revenue increase \$0.3 million, or 50% as compared to the same period in 2023. Á The increases were primarily due to new orders for silicon nitride aerospace components and government grants and contracts in our Salt Lake City operation as well as commercial and government contract revenue in our Maryland operation. Á Cost of Revenue and Gross Profit Á For the three months ended June 30, 2024, cost of revenue increased \$0.1 million, or 115% as compared to the same period in 2023. Gross profit increased \$0.2 million, or 57%, as compared to the same period in 2023. This increase was primarily attributable to the increase in revenue mentioned above. Á For the six months ended June 30, 2024, cost of revenue increased \$0.2 million, or 101% as compared to the same period in 2023. Gross profit increased \$0.3 million, or 33%, as compared to the same period in 2023. This increase was primarily attributed to the increase in revenue mentioned above. Á Research and Development Expenses Á For the three months ended June 30, 2024, research and development expenses decreased \$0.5 million, or -22%, as compared to the same period in 2023. This decrease was primarily attributable to a decrease in patent expenses and tooling costs. Á For the six months ended June 30, 2024, research and development expenses decreased \$0.7 million, or -15%, as compared to the same period in 2023. This decrease was primarily attributable to a decrease in patent expenses and tooling costs. Á General and Administrative Expenses Á For the three months ended June 30, 2024, general and administrative expenses decreased \$0.1 million, or -8%, as compared to the same period in 2023. This decrease is primarily due to a decrease in employee payroll and benefit costs. Á For the six months ended June 30, 2024, general and administrative expenses decreased \$0.1 million, or -6%, as compared to the same period in 2023. This decrease is primarily due to a decrease in costs for computer software and employee recruiting expenses. Á 22 Á Á Sales and Marketing Expenses Á For the three months ended June 30, 2024, sales and marketing expenses decreased \$0.1 million, or -17%, as compared to the same period in 2023. This decrease was primarily attributable to an overall decrease in payroll related costs and costs for outside consulting. Á For the six months ended June 30, 2024, sales and marketing expenses decreased \$0.1 million, or -19%, as compared to the same period in 2023. This decrease was primarily attributable to an overall decrease in costs for outside consulting. Á Grant Expenses Á For the three months ended June 30, 2024, grant and contract expenses increased \$0.1 million, or 39%, as compared to the same period in 2023. This increase was primarily attributable to an increase in grant and contract revenue for the same period. Á For the six months ended June 30, 2024, grant and contract expenses increased by \$0.1 million, or 14%, as compared to the same period in 2023. This increase was primarily attributable to a general increase in grant and contract revenue when compared to the prior year. Á Other Income, Net Á For the three months ended June 30, 2024, other income decreased \$0.5 million, or -50%, as compared to the same period in 2023. This decrease was primarily due to a \$0.5 million decrease associated with the change in the fair value of the derivative liabilities. Á For the six months ended June 30, 2024, other income decreased \$1.5 million, or -34%, as compared to the same period in 2023. This decrease was primarily due to a \$1.7 million decrease associated with the change in the fair value of the derivative liabilities, offset by a \$0.2 increase in costs associated with derivative liabilities. Á Liquidity and Capital Resources Á The condensed consolidated financial statements have been prepared assuming the Company will continue to operate as a going concern, which contemplates the realization of assets and settlement of liabilities in the normal course of business, and does not include any adjustments to reflect the possible future effects on the recoverability and classification of assets or the amounts and classifications of liabilities that may result from uncertainty related to its ability to continue as a going concern within one year from the date of issuance of these condensed consolidated financial statements. Á 23 Á Á For the six months ended June 30, 2024, and 2023, the Company incurred net loss of \$3.1 million and \$2.7 million, respectively, and used cash in operating activities of \$4.9 million and \$8.1 million, respectively. The Company had an accumulated deficit of \$273.8 million and \$270.7 million as of June 30, 2024, and December 31, 2023, respectively. We will require substantial future capital in order to continue operating our business, conduct the research and development and regulatory clearance and approval activities necessary to bring our products to market, and to establish effective marketing and sales capabilities. Our existing capital resources are not sufficient to enable us to fund the completion of the development and commercialization of all of our product candidates. Á The Company’s operations have been principally financed from proceeds from the issuance of preferred and common stock and, to a lesser extent, cash generated from product sales. It is anticipated that the Company will continue to generate operating losses and use cash in operations. The Company’s continuation as a going concern is dependent upon its ability to increase sales, and/or raise additional funds through the capital markets. Whether and when the Company can attain profitability and positive cash flows from operations or obtain additional financing is uncertain. Á We are actively seeking opportunities to raise additional capital. However, there can be no guarantee that we will be able to obtain such financing on terms favorable to us or at all. Á The Company is actively generating additional scientific and clinical data to have it published in leading industry publications. We believe the publication of such data would help sales efforts as the Company approaches new prospects. The Company is also making additional changes to the sales strategy, including a focus on revenue growth by expanding the use of silicon nitride in other areas outside of spinal fusion applications. Á 2024 April Registered Offering Á On April 5, 2024, the Company closed on a public offering 358,000 shares of the Company’s common stock, (the “Offering”). Each Share was sold at a public offering price of \$4.20. The aggregate proceeds to the Company from the Offering were approximately \$1.5 million before deducting placement agent fees and other estimated offering expenses payable by the Company. Á On March 26, 2024, the Company closed on a public offering 142,000 shares of the Company’s common stock, (the “Offering”). Each Share was sold at a public offering price of \$9.40. The aggregate proceeds to the Company from the Offering were approximately \$1.3 million before deducting placement agent fees and other estimated offering expenses payable by the Company. Á On February 2, 2024, the Company closed on a public offering of 80,000 units, with each unit consisting of one share of its common stock, or one pre-funded warrant to purchase one share of its common stock, one Class E Warrant with each warrant to purchase one share of common stock, and one Class F Warrant with each warrant to purchase one share of common stock. Each unit was sold at a public offering price of \$50.00. The Class E and Class F Warrants in the units are immediately exercisable at a price of \$50.00 per share. The Class E Warrants will expire five years from the date of issuance and the Class F Warrants will expire eighteen months from the date of issuance. Gross proceeds, before deducting placement agent fees and other offering expenses, are approximately \$4.0 million. Á On February 10, 2023, the Company closed on a public offering of 10,750 units, with each unit consisting of one share of common stock, or one pre-funded warrant to purchase one share of its common stock, one Class C Warrant to purchase one share of common stock, and one half of one Class D Warrant with each whole Class D Warrant entitling the holder to purchase one share of common stock. Gross proceeds, before deducting offering expenses, totaled approximately \$12.0 million. Of the \$12.0 million of gross proceeds, approximately \$5.4 million were allocated to common stock and prefunded warrants (\$4.8 million net of offering costs) and approximately \$6.7 million were allocated to derivative liabilities (with approximately \$0.7 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense). Á On October 17, 2022, the Company completed a rights offering of units consisting of convertible preferred stock and common stock warrants, resulting in gross proceeds to the Company of approximately \$4.7 million, after deducting expenses relating to the offering, including dealer-manager fees and expenses, Á 24 Á Á On February 25, 2021, the Company entered into an Equity Distribution Agreement with Maxim Group LLC (the “Maxim”), which was subsequently amended on October 12, 2023 (as amended, the “2021 Distribution Agreement”), pursuant to which the Company may sell from time to time, shares of the Company’s common stock having an aggregate offering price of up to \$1.1 million through Maxim, as agent. Á These uncertainties raise substantial doubt about our ability to continue as a going concern. The condensed consolidated financial statements do not include any adjustments that might result from the outcome of these uncertainties. Á Cash Flows Á The following table summarizes, for the periods indicated, cash flows from operating, investing and financing activities (in thousands) “unaudited: Á Á Á Six Months Ended June 30, Á Á Á 2024Á Á 2023Á Á Net cash used in operating activitiesÁ \$(4,948)Á \$(8,071) Net cash used in investing activitiesÁ Á (173)Á Á (334) Net cash provided by financing activitiesÁ Á 6,338Á Á 11,488Á Net increase (decrease) in cashÁ \$1,217Á \$3,083Á Á 25 Á Á Net Cash Used in Operating Activities Á Net cash used in operating activities was \$4.9 million during the six months ended June 30, 2024, compared to \$8.0 million used during the six months ended June 30, 2023, a decrease of \$3.1 million. The decrease in the net loss from operations, and related non-cash add backs to the net loss, was \$1.2 million from 2024 when compared to 2023. The decrease in cash used for operating activities during 2024 was primarily due to the \$1.2 million mentioned above plus changes in the movement of working capital items during 2024 as compared to the same period in 2023 as follows: a \$0.9 million decrease in cash used in prepaid expenses, a \$0.4 million decrease in cash used in other liabilities, a \$0.3 million decrease in cash used for inventory, a \$0.3 million decrease in accounts receivable Á Net Cash Used in Investing Activities Á Net cash used in investing activities was \$0.2 million during the six months ended June 30, 2024, compared to \$0.3 million used during the six months ended June 30, 2023, a decrease of \$0.1 million. The decrease in cash used for investing activities during 2024 was primarily due to a \$0.3 million increase in proceeds from notes receivable, offset by a \$0.2 increase in the purchase of property and equipment. Á Net Cash Provided by Financing Activities Á There was \$6.3 million in cash provided by financing activities during the six months ended June 30, 2024, compared to \$11.5 million in cash provided by financing activities during the same period in 2023. The \$5.2 million decrease to net cash provided by financing activities was primarily attributable to a decrease in proceeds from issuance of warrant derivative liabilities of \$3.3 million and a decrease in proceeds from issuance of common stock of \$1.7 million, and a \$0.2 million increase in payments on debt. Á Indebtedness Á Business Loan Á On July 20, 2021, TA&T, entered into a Loan Authorization and Agreement in the amount of approximately \$350,000 (the “Business Loan”). The Company made a one-time \$35,000 buy down payment when acquiring the loan. The Business Loan bore interest at a rate of 3.75% per annum. The Business Loan was secured by a general security interest in all of the assets of TA&T. The Business Loan contained other standard provisions that are customary of loans of this type. The business loan was paid in full during the first quarter of 2023 and there was no outstanding balance at June 30, 2024. Á Related Party Debt Á TA&T is obligated to repay certain personal loans made by the founders of TA&T to TA&T prior to SINTX’s acquisition of TA&T (the “Personal Loans”). The total amount of the Personal Loans at June 30, 2022, was approximately \$350,000. The Company agreed to repay the outstanding balance of the Personal Loans in (i) 24 equal monthly installments beginning September 1, 2022, and each month thereafter until paid in full as one prior owner’s “portion of the Personal Loans totaling \$157,000, and (ii) for the other owner’s “portion of the Personal Loans totaling \$193,000. As of June 30, 2024, the related party debt had an outstanding balance of \$7,000. The outstanding balance is being paid in monthly installments ending August 1, 2024. The related party debt is not collateralized and has no interest rate. Á Wells Fargo Line of Credit Á Prior to SINTX’s acquisition of TA&T, TA&T entered into a revolving line of credit with Wells Fargo. As of June 30, 2024, the line of credit with Wells Fargo had no outstanding balance and the account has been closed. Á Insurance Premium Finance Arrangements Á In March 2024, in connection with securing Director and Officer professional liability insurance, the Company entered into a Premium Finance Arrangement to extend the premium payment out for a period of 10 months. The Company paid a total of \$40,000 up front toward the insurance premium and financed approximately \$239,000. The Company will make 10 equal payments under the terms of the Premium Finance Agreement. The Premium Finance Agreement bears interest at an annual percentage rate of 8.510%. As of June 30, 2024, there was an outstanding balance of \$139,000. Á In June 2024, in connection with securing commercial liability insurance, the Company entered into a Premium Finance Arrangement to extend the premium payment out for a period of 10 months. The Company paid a total of \$26,000 up front toward the insurance premium and financed approximately \$117,000. The Company will make 10 equal payments under the terms of the Premium Finance Agreement. The Premium Finance Agreement bears interest at an annual percentage rate of 8.75%. As of June 30, 2024, there was an outstanding balance of \$95,000. Á 26 Á Á Off-Balance Sheet Arrangements Á We do not have any off-balance sheet arrangements, as defined in Item 303(a)(4) of Regulation S-K. Á Critical Accounting Policies and Estimates Á A summary of our significant accounting policies and estimates is discussed in Management’s Discussion and Analysis of Financial Condition and Results of Operations and in Note 1 to our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2023. There have been no material changes to those policies for the six months ended June 30, 2024. The preparation of the consolidated financial statements in accordance with U.S. generally accepted accounting principles requires us to make judgments, estimates and assumptions regarding uncertainties that affect the reported amounts of assets and liabilities. Significant areas of uncertainty that require judgments, estimates and assumptions include the accounting for income taxes and other contingencies as well as valuation of derivative liabilities, asset impairment and collectability of accounts receivable. We use historical and other information that we consider to be relevant to make these judgments and estimates. However, actual results may differ from those estimates and assumptions that are used to prepare our condensed consolidated financial statements. Á New Accounting Pronouncements Not Yet Adopted Á See discussion under Note 1, Organization and Summary of Significant Accounting Policies, to the Condensed Consolidated Financial Statements included in Item 1 of Part I of this Quarterly Report on Form 10-Q, for information on new accounting pronouncements. Á ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK Á Not applicable. Á ITEM 4. CONTROLS AND PROCEDURES Á This Report includes the certifications of our Chief Executive Officer and Principal Financial Officer required by Rule 13a-14 of the Securities Exchange Act of 1934 (the “Exchange Act”). See Exhibits 31.1 and 31.2. This Item 4 includes information concerning the controls and control evaluations referred to in those certifications. Á Evaluation of Disclosure Controls and Procedures Á We maintain disclosure controls and procedures, as such term is defined in Rules 13a-15(e) and 15d-15(e) of the Securities Exchange Act of 1934 (the “Exchange Act”), that are designed to ensure that information required to be disclosed in the reports filed or submitted under the Exchange Act, is recorded, processed, summarized, and reported within the time periods specified by the Commission’s rules and forms. Disclosure controls and procedures include controls and procedures designed to ensure that information required to be disclosed in our reports filed or submitted under the Exchange Act are properly recorded, processed, summarized and reported within the time periods required by the Commission’s rules and forms. Á We carried out an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer (principal executive officer and principal financial officer), of the effectiveness of the design and operation of these disclosure controls and procedures, as such term is defined in Exchange Act Rule 13a-15(e), as of June 30, 2024. Based on this evaluation, the Chief Executive Officer concluded that our disclosure controls and procedures were effective as of June 30, 2024, the end of the period covered by this Quarterly Report

Report Document Shell Company Event Date Document Period Start Date Document Period End Date Document Fiscal Period Focus Document Fiscal Year Focus Current Fiscal Year End Date Entity File Number Entity Registrant Name Entity Central Index Key Entity Primary SIC Number Entity Tax Identification Number Entity Incorporation, State or Country Code Entity Address, Address Line One Entity Address, Address Line Two Entity Address, Address Line Three Entity Address, City or Town Entity Address, State or Province Entity Address, Country Entity Address, Postal Zip Code Country Region City Area Code Local Phone Number Extension Written Communications Soliciting Material Pre-commencement Tender Offer Pre-commencement Issuer Tender Offer Title of 12(b) Security No Trading Symbol Flag Trading Symbol Security Exchange Name Title of 12(g) Security Security Reporting Obligation Annual Information Form Audited Annual Financial Statements Entity Well-known Seasoned Issuer Entity Voluntary Filers Entity Current Reporting Status Entity Interactive Data Current Entity Filer Category Entity Small Business Entity Emerging Growth Company Elected Not To Use the Extended Transition Period Document Accounting Standard Other Reporting Standard Item Number Entity Shell Company Entity Public Float Entity Bankruptcy Proceedings, Reporting Current Entity Common Stock, Shares Outstanding Documents Incorporated by Reference [Text Block] Entity Listing, Par Value Per Share Statement [Table] Statement [Line Items] Assets Current assets: Cash and cash equivalents Account and other receivables, net of allowance totaling 68 and 72 respectively Prepaid expenses and other current assets Inventories Other current assets Total current assets Inventories, net Property and equipment, net Intangible assets, net Operating lease right of use asset Other long-term assets Total assets Liabilities and Stockholdersâ€™ Equity Current liabilities: Accounts payable Accrued liabilities Debt Derivative liabilities Current portion of operating lease liability Other current liabilities Total current liabilities Operating lease liability, net of current portion Total liabilities Commitments and contingencies Stockholdersâ€™ equity: Preferred stock value Common stock, \$0.01 par value, 250,000,000 shares authorized; 748,341 and 26,603 shares issued and outstanding as of June 30, 2024 and December 31, 2023, respectively. Additional paid-in capital Accumulated deficit Total stockholdersâ€™ equity Total liabilities and stockholdersâ€™ equity Account and other receivables, net of allowance Convertible preferred stock, par value Convertible preferred stock, shares authorized Convertible preferred stock, shares issued Convertible preferred stock, shares outstanding Common stock, par value Common stock, shares authorized Common stock, shares issued Common stock, shares outstanding Total revenue Costs of revenue Gross profit Operating expenses: Research and development General and administrative Sales and marketing Grant and contract expenses Total operating expenses Loss from operations Other income (expenses): Interest expense Interest income Gain on disposal of equipment Change in fair value of derivative liabilities Offering costs of derivative liabilities Other income, net Total other income (expense), net Net loss before income taxes Provision for income taxes Net loss Deemed dividend related to convertible preferred stock Net loss attributable to common stockholders Net loss per share â€œbasic and diluted Basic â€œnet loss Basic â€œdeemed dividend on conversion of preferred stock Basic â€œattributable to common stockholders Diluted â€œnet loss Diluted - deemed dividend on conversion of preferred stock Diluted â€œattributable to common stockholders Weighted average common shares outstanding: Basic Diluted Balance Balance, shares Stock based compensation Stock based compensation, shares Common stock issued for cash, net of cash fees Common stock issued for cash, net of cash fees, shares Prefunded warrants issued for cash, net of cash fees Extinguishment of derivative liability upon exercise of warrant Issuance of common stock from the exercise of prefunded warrants for cash Issuance of common stock from the exercise of prefunded warrants for cash, shares Issuance of common stock from the cashless exercise of warrants Issuance of common stock from the cashless exercise of warrants, shares Redemption of preferred stock Redemption of preferred stock, shares Issuance of agent warrants Round up shares issued in reverse split Round up shares issued in reverse split, shares Net loss Issuance of common stock from the conversion of preferred stock Issuance of common stock from conversion of preferred stock, shares Deemed dividend related to the conversion of preferred stock Deemed dividend related to the conversion of preferred stock Extinguishment of derivative liabilities upon the exercise of warrants Extinguishment of derivative liabilities upon the exercise of warrants, shares Balance Balance, shares Statement of Cash Flows [Abstract] Cash Flows From Operating Activities Adjustments to reconcile net loss to net cash used in operating activities: Depreciation expense Amortization of right of use asset Amortization of intangible assets Stock based compensation Change in fair value of derivative liabilities Recovery of written-off accounts receivable Gain on disposal of equipment Changes in operating assets and liabilities: Trade accounts receivable Prepaid expenses and other current assets Inventories Accounts payable and accrued liabilities Other liabilities Payments on operating lease liability Net cash used in operating activities Cash Flows From Investing Activities Purchase of property and equipment Proceeds from notes receivable, net of imputed interest Proceeds from sale of property and equipment Net cash used in investing activities Cash Flows From Financing Activities Proceeds from issuance of warrant derivative liabilities Proceeds from issuance of common stock and prefunded warrants, net of cash fees Proceeds from issuance of common stock in connection with exercise of warrants Payment on debt Redemption of Preferred Stock Series E Net cash provided by financing activities Net increase in cash and cash equivalents Cash and cash equivalents at beginning of period Cash and cash equivalents at end of period Noncash Investing and Financing Activities Debt issued for prepaid insurance Agent warrant offering cost allocated to equity Right of use asset for amended lease liability â€œincrease Right of use asset for lease liability Reduction of derivative liability upon exercise of warrants Par value of common stock upon cashless exercise of warrants Par value of common stock upon exercise of prefunded warrants Supplemental Cash Flow Information Cash paid for interest Organization, Consolidation and Presentation of Financial Statements [Abstract] Organization and Summary of Significant Accounting Policies Earnings Per Share [Abstract] Basic and Diluted Net Income (Loss) per Common Share Inventory Disclosure [Abstract] Inventories Fair Value Disclosures [Abstract] Fair Value Measurements Payables and Accruals [Abstract] Accrued Liabilities Debt Disclosure [Abstract] Debt Equity [Abstract] Equity Share-Based Payment Arrangement [Abstract] Stock-Based Compensation Commitments and Contingencies Disclosure [Abstract] Commitments and Contingencies Leases Leases Subsequent Events [Abstract] Subsequent Events Basis of Presentation Reverse Stock Split Use of Estimates Liquidity and Capital Resources Grant and Contract Revenue New Accounting Pronouncements Not Yet Adopted Schedule of Basic and Diluted Loss Per Share Schedule of Components of Inventory Schedule of Financial Liabilities Measured at Fair Value on Recurring Basis by Level Schedule of Fair Value Measurement Hierarchy of Derivative Liability Schedule of Assumptions used in Estimating Fair Value Schedule of Accrued Liabilities Schedule of Stock Option Activity Schedule of Unrecognized Stock-based Compensation Schedule of Operating Lease Future Minimum Payments Collaborative Arrangement and Arrangement Other than Collaborative [Table] Collaborative Arrangement and Arrangement Other than Collaborative [Line Items] Reverse stock split, description Net loss Cash in operating activities Accumulated deficit Aggregate offering price Distribution amount Available for sale Common stock shares issued Gross proceeds common stock Stock issued in public offering Gross proceeds from sale of stock Offering costs Sale of stock price Offering fees and expenses Warrants exercise price Offering expenses payable Stock and local income tax percentage Net loss, Basic Calculation Net loss, Effect of Dilutive Warrant Securities Net loss, Diluted Calculation Deemed dividend and accretion of a discount, Basic Calculation Deemed dividend and accretion of a discount, Effect of Dilutive Warrant Securities Deemed dividend and accretion of a discount, Diluted Calculation Net loss attributable to common stockholders, Basic Calculation Net loss attributable to common stockholders, Effect of Dilutive Warrant Securities Net loss attributable to common stockholders, Diluted Calculation Number of shares used in per common share calculations: Basic Calculation Number of shares used in per common share calculations: Effect of Dilutive Warrant Securities Number of shares used in per common share calculations: Diluted Calculation Net loss per common share: Net loss, Basic Calculation Net loss per common share: Net loss, Effect of Dilutive Warrant Securities Net loss per common share: Net loss, Diluted Calculation Net loss per common share: Deemed dividend and accretion of a discount, Basic Calculation Net loss per common share: Deemed dividend and accretion of a discount, Effect of Dilutive Warrant Securities Net loss per common share: Deemed dividend and accretion of a discount, Diluted Calculation Net loss per common share: Net loss attributable to common stockholders, Basic Calculation Net loss per common share: Net loss attributable to common stockholders, Effect of Dilutive Warrant Securities Net loss per common share: Net loss attributable to common stockholders, Diluted Calculation Number of potentially dilutive securities Raw materials WIP Finished goods A Inventory net Inventory current Inventory non-current Fair Value, Recurring and Nonrecurring [Table] Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Derivative liability Beginning balance Issuance of derivatives Exercise of warrants Change in fair value Other Ending balance Fair Value Measurement Inputs and Valuation Techniques [Table] Fair Value Measurement Inputs and Valuation Techniques [Line Items] Warrants measurement input Weighted-average expected life Payroll and related expense Accrued payables Other Accrued liabilitiesA Short-Term Debt [Table] Short-Term Debt [Line Items] Outstanding balance Loan down payment Debt interest rate Debt instrument, payments terms Due to related parties Up front insurance premium Financed insurance premium Accumulated Other Comprehensive Income (Loss) [Table] Accumulated Other Comprehensive Income (Loss) [Line Items] Number of shares issued Public offering price Gross proceeds Public offering, units Common units to purchase shares of common stock Warrants to purchase common stock Proceeds from issuance of warrants Beneficial ownership percentage Exercise price Warrants and rights outstanding, term Cash placement fee percentage Reimbursement of expenses and legal fees Warrants to purchase Shares, sold Gross proceeds from sale of stock Proceeds allocated to derivative liabilities Sale of stock, description of transaction Amount available for sale Public float threshold Options outstanding at beginning Weighted average exercisable price Weighted average remaining contractual terms (years), outstanding at ending Intrinsic value, outstanding at beginning of period Options, granted Weighted average exercise price, granted Options, exercised Weighted average exercise price, exercised Options, forfeited Weighted average exercise price, forfeited Options, expired Weighted average exercise price, expired Options, outstanding at end Weighted average exercise price, outstanding at end of period Intrinsic value, outstanding at end of period Options, exercisable at end Weighted average exercise price, exercisable at end of period Weighted average remaining contractual terms (years), exercisable Intrinsic value, exercisable at end of period Vested and expected to vest at end Weighted average exercise price, vested and expected to vest at end Weighted average remaining contractual terms (years), vested and expected to vest Intrinsic value, vested and expected to vest end of period Subsidiary or Equity Method Investee, Sale of Stock, Type [Table] Subsidiary, Sale of Stock [Line Items] Unrecognized stock-based compensation Weighted average remaining of recognition Schedule of Share-Based Compensation Arrangements by Share-Based Payment Award [Table] Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items] Options outstanding Options, grants in period, gross Schedule Of Operating Lease Future Minimum Payments 2024 2025 2026 2027 2028 Thereafter Total future minimum lease payments Less amounts representing interests Present value of lease liability Current-portion of operating lease liability Long-term portion operating lease liability Area of land Lease term extend Lease term Operating lease right-of-use assets Operating lease liability Non-cash operating lease expense Operating lease, weighted average discount rate, percent Subsequent Event [Table] Subsequent Event [Line Items] Reverse stock split Bid price Impairment charge Liquidity And Capital Resources [Policy Text Block] Series C Convertible Preferred Stock [Member] Series B Convertible Preferred Stock [Member] 2021 Equity Distribution Agreement [Member] Maxim Group LLC [Member] Common Unit [Member] Series D Convertible Preferred Stock [Member] Offering expenses payable Common Stock Warrants [Member] Common Stock and Prefunded Warrants [Member] Derivative Liabilities for Common Stock Warrants [Member] Agent Warrant Offering [Member] Class E Warrants [Member] Class F Warrants [Member] Offering fees and expenses Class E and Class F Warrants [Member] Pre Funded Warrant Unit [Member] Class E Warrant [Member] Pre Funded Warrant [Member] Reimbursement of expenses and legal fees Class C and Class D Warrants [Member] Class C Warrant [Member] Class D Warrant [Member] Net income, effect of dilutive warrant securities. Net income, effect of dilutive warrant securities per share. Grant and contract expenses. Change in fair value of derivative liabilities. Offering costs associated with derivative warrant liabilities. Non-Executive [Member] Basic deemed dividend and accretion of discount on conversion of series B preferred stock. Diluted deemed dividend and accretion of discount on conversion of preferred stock. Amount of exercise of warrants of financial instrument classified as a liability measured using unobservable inputs that reflect the entity's own assumption about the assumptions market participants would use in pricing. Employee Stock Grants [Member] Fair value measurement with unobservable inputs reconciliation recurring basis liability period other. Industrial Lease Agreement [Member] Technology Assessment and Transfer, Inc. (TA&T) [Member] Black-Scholes-Merton Valuation Model [Member] Non cash operating lease expense. Adjustments to additional paid in capital extinguishment of derivative liability upon exercise of warrant. Stock issued during period value of common stock from exercise of prefunded warrants for cash. Adjustments To Additional Paid In Capital Issuance Of Agent Warrants. Stock issued during period value reverse stock splits. Lessee operating lease liability payments due after year four. Public float threshold. Stock issued during period value of common stock from exercise of prefunded warrants for cash, shares. Deemed dividend and accretion of discounts effect of dilutive warrant securities. Deemed dividend and accretion of discount diluted calculation. Deemed dividend and accretion of discount effect of dilutive warrant securities. Accrued payable current. Proceeds from notes receivable net of imputed interest. Proceeds from issuance of common stock exercise of warrants. Business Loan [Member] Debt issued for prepaid insurance. Personal Loans [Member] Agent warrant offering cost allocated to equity. Right Of Use Asset For Amended Lease Liability Increase. Right of use asset for lease liability. Reduction Of Derivative Liability Upon Exercise Of Warrants. Par value of common stock upon cashless exercise of warrants. Par value of common stock upon exercise of prefunded warrants. Basic net income loss per share. Earnings per share diluted net income loss. Deemed dividend and accretion of a discount, basic calculation. Dilutive deemed dividend and accretion of discount diluted calculation. Bid price. Reverse Stock Split [Policy Text Block] Extinguishment of derivative liabilities upon the exercise of warrants, shares Extinguishment of derivative liabilities upon exercise of warrants. Grant and Contract [Member] 2024 April Registered Offering [Member] 2024 March Registered Offering [Member] Public offering units. Class F Warrant [Member] Class E and F Warrants [Member] Prefunded Warrants [Member] Proceeds from issuance of common stock and prefunded warrants. Proceeds allocated to derivative liabilities. Net loss, effect of dilutive warrant securities. Available for sale securities amount. Earnings per share basic to common shareholders. Up front insurance premium. Insurance Premium Finance Arrangements [Member] Financed insurance premium. Assets, Current Assets [Default Label] Liabilities, Current Liabilities Equity, Attributable to Parent Liabilities and Equity Gross Profit Operating Expenses Operating Income (Loss) Interest Expense, Other Offering Costs Associated With Derivative Warrant Liabilities Nonoperating Income (Expense) Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest Preferred Stock Dividends, Income Statement Impact Shares, Outstanding Stock Redeemed or Called During Period, Shares Adjustments to Additional Paid in Capital, Dividends in Excess of Retained Earnings Share-Based Payment Arrangement, Noncash Expense Derivative, Gain (Loss) on Derivative, Net Increase (Decrease) in Accounts Receivable Increase (Decrease) in Prepaid Expense and Other Assets Increase (Decrease) in Inventories Net Cash Provided by (Used in) Operating Activities Payments to Acquire Property, Plant, and Equipment Net Cash Provided by (Used in) Investing Activities Repayments of Debt Payments for Repurchase of Preferred Stock and Preference Stock Net Cash Provided by (Used in) Financing Activities Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Including Disposal Group and Discontinued Operations Inventory Disclosure [Text Block] Debt Disclosure [Text Block] Lessee, Operating Leases [Text Block] Inventory, Net Fair Value, Measurement with Unobservable Inputs Reconciliation, Recurring Basis, Liability, Issuances Other Accrued Liabilities, Current Proceeds From Issuance Of Common Stock And Prefunded Warrants Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Exercise Price Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Intrinsic Value Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Expirations in Period Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Number Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Weighted Average Exercise Price Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Intrinsic Value Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Number Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Aggregate Intrinsic Value Lessee, Operating Lease, Liability, to be Paid Lessee, Operating Lease, Liability, Undiscounted Excess Amount EX-101.PRE 9 sint-20240630 pre.xml XBRL PRESENTATION FILE XML 11 R1.htm IDEEA: XBRL DOCUMENT v3.24.2.u1 Cover - / shares 6 Months Ended Jun. 30, 2024 Aug. 08, 2024 Cover [Abstract] A Document Type 10-Q A Amendment Flag false A Document Quarterly Report true A Document Transition Report false A Document Period End Date Jun. 30, 2024 A Document Fiscal Period Focus Q2 A Document Fiscal Year Focus 2024 A Current Fiscal Year End Date -12-31 A Entity File Number 00133624 A Entity Registrant Name SINTX Technologies, Inc. A Entity Central Index Key 0001269026 A Entity Tax Identification Number 84-1375299 A Entity Incorporation, State or Country Code DE A Entity Address, Address Line One 1885 West 2100 South A Entity Address, City or Town Salt Lake City A Entity Address, State or Province UT A Entity Address, Postal Zip Code 84119 A City Area Code (801) A Local Phone Number 839-3500 A Title of 12(b) Security Common Stock A Trading Symbol SINT A Security Exchange Name NASDAQ A Entity Current Reporting Status Yes A Entity Interactive Data Current Yes A Entity Filer Category Non-accelerated Filer A Entity Small Business true A Entity Emerging Growth Company false A Entity Shell Company false A Entity Common Stock, Shares Outstanding A 747,293 Entity Listing, Par Value Per Share \$ 0.01 A X - Definition Boolean flag that is true when the XBRL content amends previously-filed or accepted submission. + References No definition available. +

Details Name: dei AmendmentFlag Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionArea code of city + ReferencesNo definition available. + Details Name: dei CityAreaCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCover page. + ReferencesNo definition available. + Details Name: dei CoverAbstract Namespace Prefix: dei_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionEnd date of current fiscal year in the format --MM-DD. + ReferencesNo definition available. + Details Name: dei CurrentFiscalYearEndDate Namespace Prefix: dei_ Data Type: xbrli:gMonthDayItemType Balance Type: na Period Type: duration X - DefinitionFiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY. + ReferencesNo definition available. + Details Name: dei DocumentFiscalPeriodFocus Namespace Prefix: dei_ Data Type: dei:fiscalPeriodItemType Balance Type: na Period Type: duration X - DefinitionThis is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. + ReferencesNo definition available. + Details Name: dei DocumentFiscalYearFocus Namespace Prefix: dei_ Data Type: xbrli:gYearItemType Balance Type: na Period Type: duration X - DefinitionFor the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. + ReferencesNo definition available. + Details Name: dei DocumentPeriodEndDate Namespace Prefix: dei_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as an quarterly report. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Form 10-Q-Number 240-Section 308-Subsection a> + Details Name: dei DocumentQuarterlyReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as a transition report. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Forms 10-K,10-Q,20-F-Number 240-Section 13-Subsection a-1> + Details Name: dei DocumentTransitionReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. + ReferencesNo definition available. + Details Name: dei DocumentType Namespace Prefix: dei_ Data Type: dei:submissionTypeItemType Balance Type: na Period Type: duration X - DefinitionAddress Line 1 such as Attn, Building Name, Street Name + ReferencesNo definition available. + Details Name: dei EntityAddressAddressLine1 Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the City or Town + ReferencesNo definition available. + Details Name: dei EntityAddressCityOrTown Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCode for the postal or zip code + ReferencesNo definition available. + Details Name: dei EntityAddressPostalZipCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the state or province. + ReferencesNo definition available. + Details Name: dei EntityAddressStateOrProvince Namespace Prefix: dei_ Data Type: dei:stateOrProvinceItemType Balance Type: na Period Type: duration X - DefinitionA unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> + Details Name: dei EntityCentralIndexKey Namespace Prefix: dei_ Data Type: dei:centralIndexKeyItemType Balance Type: na Period Type: duration X - DefinitionIndicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument. + ReferencesNo definition available. + Details Name: dei EntityCommonStockSharesOutstanding Namespace Prefix: dei_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesNo definition available. + Details Name: dei EntityCurrentReportingStatus Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionIndicate if registrant meets the emerging growth company criteria. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> + Details Name: dei EntityEmergingGrowthCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionCommission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen. + ReferencesNo definition available. + Details Name: dei EntityFileNumber Namespace Prefix: dei_ Data Type: dei:fileNumberItemType Balance Type: na Period Type: duration X - DefinitionIndicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> + Details Name: dei EntityFilerCategory Namespace Prefix: dei_ Data Type: dei:filerCategoryItemType Balance Type: na Period Type: duration X - DefinitionTwo-character EDGAR code representing the state or country of incorporation. + ReferencesNo definition available. + Details Name: dei EntityIncorporationStateCountryCode Namespace Prefix: dei_ Data Type: dei:edgarStateCountryItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Regulation S-T-Number 232-Section 405> + Details Name: dei EntityInteractiveDataCurrent Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionThe par value per share of security quoted in same currency as Trading currency. Example: '0.01'. + ReferencesNo definition available. + Details Name: dei EntityListingParValuePerShare Namespace Prefix: dei_ Data Type: dtr:types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> + Details Name: dei EntityRegistrantName Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> + Details Name: dei EntityShellCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionIndicates that the company is a Smaller Reporting Company (SRC). + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> + Details Name: dei EntitySmallBusiness Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> + Details Name: dei EntityTaxIdentificationNumber Namespace Prefix: dei_ Data Type: dei:employerIdItemType Balance Type: na Period Type: duration X - DefinitionLocal phone number for entity. + ReferencesNo definition available. + Details Name: dei LocalPhoneNumber Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionTitle of a 12(b) registered security. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b> + Details Name: dei Security12bTitle Namespace Prefix: dei_ Data Type: dei:securityTitleItemType Balance Type: na Period Type: duration X - DefinitionName of the Exchange on which a security is registered. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection d1-1> + Details Name: dei SecurityExchangeName Namespace Prefix: dei_ Data Type: dei:edgarExchangeCodeItemType Balance Type: na Period Type: duration X - DefinitionTrading symbol of an instrument as listed on an exchange. + ReferencesNo definition available. + Details Name: dei TradingSymbol Namespace Prefix: dei_ Data Type: dei:tradingSymbolItemType Balance Type: na Period Type: duration XML 12 R2.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Balance Sheets (Unaudited) - USD (\$) \$ in Thousands Jun 30, 2024 Dec. 31, 2023 Current assets: $\text{\AA}$ A Cash and cash equivalents $\text{\$}$ 4,557 $\text{\$}$ 3,340 Account and other receivables, net of allowance totaling 68 and 72 respectively 434 685 Prepaid expenses and other current assets 384 539 Inventories 445 888 Other current assets 41 80 Total current assets 5,861 5,532 Inventories, net 575 333 Property and equipment, net 4,815 4,826 Intangible assets, net 19 21 Operating lease right of use asset 3,791 4,094 Other long-term assets 235 559 Total assets 15,296 15,365 Current liabilities: $\text{\AA}$ A Accounts payable 331 636 Accrued liabilities 1,558 1,404 Debt 241 46 Derivative liabilities 397 304 Current portion of operating lease liability 494 512 Other current liabilities 4 Total current liabilities 3,021 2,906 Operating lease liability, net of current portion 3,429 3,687 Total liabilities 6,450 6,593 Commitments and contingencies Stockholders $\text{\AA}$ [™] equity: $\text{\AA}$ A Common stock, $\text{\$}$ 0.01 par value, 250,000,000 shares authorized; 748,341 and 26,603 shares issued and outstanding as of June 30, 2024 and December 31, 2023, respectively. 7 Total additional paid-in capital 282,643 279,486 Accumulated deficit (273,804) (270,714) Total stockholders $\text{\AA}$ [™] equity 8,846 8,772 Total liabilities and stockholders $\text{\AA}$ [™] equity 15,296 15,365 Series B Convertible Preferred Stock [Member] $\text{\AA}$ A Stockholders $\text{\AA}$ [™] equity: $\text{\AA}$ A Preferred stock value Series C Convertible Preferred Stock [Member] $\text{\AA}$ A Stockholders $\text{\AA}$ [™] equity: $\text{\AA}$ A Preferred stock value Series D Convertible Preferred Stock [Member] $\text{\AA}$ A Stockholders $\text{\AA}$ [™] equity: $\text{\AA}$ A Preferred stock value X - DefinitionAmount, after allowance, receivable from customers, clients, or other third-parties, and receivables classified as other due within one year or the normal operating cycle, if longer. + ReferencesNo definition available. + Details Name: us-gaap AccountsAndOtherReceivablesNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(19\)\(a\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(19)(a))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10> + Details Name: us-gaap AccountsPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(20\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(20))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> + Details Name: us-gaap AccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 3: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 5: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 6: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 7: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 8: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 9: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 10: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 11: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 12: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 13: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 14: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 15: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 16: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 17: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 18: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 19: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 20: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 21: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 22: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 23: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 24: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 25: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 26: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 27: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 28: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 29: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 30: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 31: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 32: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 33: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 34: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 35: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 36: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 37: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 38: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 39:

Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 30: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap Assets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7 + Details Name: us-gaap AssetsCurrentNamespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap AssetsCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionRepresents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap CommitmentsAndContingencies Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap CommonStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionFair value, after the effects of master netting arrangements, of a financial liability or contract with one or more underlyings, notional amount or payment provision or both, and the contract can be net settled by means outside the contract or delivery of an asset, expected to be settled within one year or normal operating cycle, if longer. Includes assets not subject to a master netting arrangement and not elected to be offset. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483466/210-20-50-3 + Details Name: us-gaap DerivativeLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1 + Details Name: us-gaap IntangibleAssetsNetExcludingGoodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionGross amount, as of the balance sheet date, of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap InventoryGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionInventories not expected to be converted to cash, sold or exchanged within the normal operating cycle. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap InventoryNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 15: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25:

URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap StockholdersEquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - Details Name: us-gaap_ StatementClassOfStockAxis=SINT_SeriesBConvertiblePreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ StatementClassOfStockAxis=SINT_SeriesCConvertiblePreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ StatementClassOfStockAxis=SINT_SeriesDConvertiblePreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 13 R3.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Balance Sheets (Unaudited) (Parenthetical) - USD (\$) \$ in Thousands Jun. 30, 2024 Dec. 31, 2023 Account and other receivables, net of allowance \$ 68 \$ 72 Common stock, par value \$ 0.01 \$ 0.01 Common stock, shares authorized 250,000,000 250,000,000 Common stock, shares issued 748,341 26,603 Common stock, shares outstanding 748,341 26,603 Series B Convertible Preferred Stock [Member] A A Convertible preferred stock, par value \$ 0.01 \$ 0.01 Convertible preferred stock, shares authorized 130,000,000 130,000,000 Convertible preferred stock, shares issued 15 26 Convertible preferred stock, shares outstanding 15 26 Series C Convertible Preferred Stock [Member] A A Convertible preferred stock, par value \$ 0.01 \$ 0.01 Convertible preferred stock, shares authorized 130,000,000 130,000,000 Convertible preferred stock, shares issued 50 50 Convertible preferred stock, shares outstanding 50 50 Series D Convertible Preferred Stock [Member] A A Convertible preferred stock, par value \$ 0.01 \$ 0.01 Convertible preferred stock, shares authorized 130,000,000 130,000,000 Convertible preferred stock, shares issued 180 180 Convertible preferred stock, shares outstanding 180 180 X - DefinitionAmount of allowance for credit loss on accounts receivable, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479344/326-20-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481962/310-10-50-4 + Details Name: us-gaap AllowanceForDoubtfulAccountsReceivableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: instant X - DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_CommonStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PREFERREDStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: instant X - DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_PREFERREDStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionNumber of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PREFERREDStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_PREFERREDStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - Details Name: us-gaap_StatementClassOfStockAxis=SINT_SeriesBConvertiblePreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=SINT_SeriesCConvertiblePreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=SINT_SeriesDConvertiblePreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 14 R4.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Statements of Operations (Unaudited) - USD (\$) \$ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2022 Jun. 30, 2023 Total revenue \$ 859 \$ 508 \$ 1,546 \$ 1,047 Costs of revenue 224 104 447 222 Gross profit 635 404 1,099 825 Operating expenses: A A A Research and development 1,677 2,148 3,696 4,364 General and administrative 1,072 1,168 2,195 2,323 Sales and marketing 256 308 502 618 Grant and contract expenses 340 244 613 540 Total operating expenses 3,345 3,868 7,066 7,845 Loss from operations (2,710) (3,464) (5,907) (7,020) Other income (expenses): A A A Interest expense (4) (6) (2) Interest income 23 47 42 84 Gain on disposal of equipment 12 12 Change in fair value of derivative liabilities 448 965 3,286 4,971 Offering costs of derivative liabilities (550) (786) Other income, net 27 (3) 33 5 Total other income (expense), net 506 1,009 2,817 4,272 Net loss before income taxes (2,204) (2,455) (3,090) (2,748) Provision for income taxes Net loss (2,204) (2,455) (3,090) (2,748) Deemed dividend related to convertible preferred stock (26) (26) Net loss attributable to common stockholders \$ (2,204) \$ (2,481) \$ (3,090) \$ (2,774) Net loss per share  basic and diluted A A A Basic  net loss \$ (3.49) \$ (120.63) \$ (8.61) \$ (173.02) Basic  deemed dividend on conversion of preferred stock (1.28) (1.64) Basic  attributable to common stockholders (3.49) (121.91) (8.61) (174.66) Diluted  net loss (3.61) (154.13) (13.62) (445.06) Diluted - deemed dividend on conversion of preferred stock (1.17) (1.58) Diluted  attributable to common stockholders \$ (3.61) \$ (155.30) \$ (13.62) \$ (446.64) Weighted average common shares outstanding: A A A Basic 631,212 20,253 358,763 15,883 Diluted 697,868 22,183 467,756 16,413 Product [Member] A A A Total revenue \$ 378 \$ 235 \$ 687 \$ 475 Grant and Contract [Member] A A A Total revenue \$ 481 \$ 273 \$ 859 \$ 572 X - DefinitionBasic deemed dividend and accretion of discount on conversion of series B preferred stock. + ReferencesNo definition available. + Details Name: SINT_BasicDeemedDividendAndAccretionOfDiscountOnConversionOfSeriesBPreferredStock Namespace Prefix: SINT_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionChange in fair value of derivative liabilities Namespace Prefix: SINT_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: duration X - DefinitionDiluted deemed dividend and accretion of discount on conversion of preferred stock. + ReferencesNo definition available. + Details Name: SINT_DilutedDeemedDividendAndAccretionOfDiscountOnConversionOfPreferredStock Namespace Prefix: SINT_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionGrant and contract expenses. + ReferencesNo definition available. + Details Name: SINT_GrantAndContractExpenses Namespace Prefix: SINT_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - DefinitionOffering costs associated with derivative warrant liabilities. + ReferencesNo definition available. + Details Name: SINT_OfferingCostsAssociatedWithDerivativeWarrantLiabilities Namespace Prefix: SINT_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - DefinitionThe aggregate cost of goods produced and sold and services rendered during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B + Details Name: us-gaap_CostOfRevenue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -

page 52 - Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap EarningsPerShareBasic Namespace Prefix: us-gaap Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap EarningsPerShareBasicOtherDisclosuresAbstract Namespace Prefix: us-gaap Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap EarningsPerShareDiluted Namespace Prefix: us-gaap Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionAmount of gain (loss) on sale or disposal of property, plant and equipment assets, including oil and gas property and timber property. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28

Accounting Standards Codification - Section 25 - SubTopic 2 - Subparagraph (g)(3) - Publisher FASB - URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5:

(g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 5 -Subparagraph (SAB Topic 6.B) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-5Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B + Details Name: us-gaap NetIncomeLossAvailableToCommonStockholdersBasic Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate amount of income or expense from ancillary business-related activities (that is to say, excluding major activities considered part of the normal operations of the business). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap NonoperatingIncomeExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap NonoperatingIncomeExpenseAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionGenerally recurring costs associated with normal operations except for the portion of these expenses which can be clearly related to production and included in cost of sales or services. Includes selling, general and administrative expense. + ReferencesNo definition available. + Details Name: us-gaap OperatingExpenses Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap OperatingExpensesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap OperatingIncomeLoss Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of income (expense) related to nonoperating activities, classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap OtherNonoperatingIncomeExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe amount of preferred stock dividends that is an adjustment to net income apportioned to common stockholders. + ReferencesNo definition available. + Details Name: us-gaap PreferredStockDividendsIncomeStatementImpact Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482916/730-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479532/912-730-25-1 + Details Name: us-gaap ResearchAndDevelopmentExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate total amount of expenses directly related to the marketing or selling of products or services. + ReferencesNo definition available. + Details Name: us-gaap SellingAndMarketingExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16 + Details Name: us-gaap WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10 + Details Name: us-gaap WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - Details Name: srt ProductOrServiceAxis=us-gaap ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt ProductOrServiceAxis=SINT GrantAndContractMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 15 R5.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Statements of Stockholders' Equity (Unaudited) - USD (\$) in Thousands Preferred Stock [Member] Common Stock [Member] Additional Paid-in Capital [Member] Retained Earnings [Member] Total Balance at Dec. 31, 2022 \$ 268,159 \$ (262,455) \$ 5,704 Balance, shares at Dec. 31, 2022 283,271 \$ A Stock based compensation 86 86 Stock based compensation, shares A A A Common stock issued for cash, net of cash fees 4,457 4,457 Common stock issued for cash, net of cash fees, shares A 9,900 A A Prefunded warrants issued for cash, net of cash fees 383 383 Extinguishment of derivative liability upon exercise of warrant 5,502 5,502 Issuance of common stock from the exercise of prefunded warrants for cash Issuance of common stock from the exercise of prefunded warrants for cash, shares A 850 A A Issuance of common stock from the cashless exercise of warrants Issuance of common stock from the cashless exercise of warrants, shares A 6,688 A A Redemption of preferred stock (2) (2) Redemption of preferred stock, shares (1) A A Issuance of agent warrants 108 108 Round up shares issued in reverse split Round up shares issued in reverse split, shares A 102 A A Net loss (293) (293) Balance at Mar. 31, 2023 278,693 (262,748) 15,945 Balance, shares at Mar. 31, 2023 282,202 251 A A Balance at Dec. 31, 2022 268,159 (262,455) \$ 5,704 Balance, shares at Dec. 31, 2022 283,271 A A Issuance of common stock from the cashless exercise of warrants, shares A A A Net loss A A A \$ (2,748) Balance at Jun. 30, 2023 279,015 (265,203) 13,812 Balance, shares at Jun. 30, 2023 256,210 40 A A Balance at Mar. 31, 2023 278,693 (262,748) 15,945 Balance, shares at Mar. 31, 2023 282,202 251 A A Stock based compensation 71 71 Stock based compensation, shares A A A Extinguishment of derivative liability upon exercise of warrant 251 251 Issuance of common stock from the cashless exercise of warrants Issuance of common stock from the cashless exercise of warrants, shares A 780 A A Net loss (2,455) (2,455) Issuance of common stock from the conversion of preferred stock Issuance of common stock from conversion of preferred stock, shares (26) 9 A A Deemed dividend related to the conversion of preferred stock (26) (26) Deemed dividend related to the conversion of preferred stock 26 26 Balance at Jun. 30, 2023 279,015 (265,203) 13,812 Balance, shares at Jun. 30, 2023 256,210 40 A A Balance at Dec. 31, 2023 279,486 (270,714) 8,772 Balance, shares at Dec. 31, 2023 256,260 603 A A A Stock based compensation 50 50 Stock based compensation, shares A A A Common stock issued for cash, net of cash fees \$ 2 1,582 1,584 Common stock issued for cash, net of cash fees, shares A 165,797 A A Prefunded warrants issued for cash, net of cash fees 406 406 Issuance of common stock from the exercise of prefunded warrants for cash \$ 1 (1) Issuance of common stock from the exercise of prefunded warrants for cash, shares A 63,000 A A Net loss A A A (886) (886) Balance at Mar. 31, 2024 \$ 3,281,523 (271,600) 9,926 Balance, shares at Mar. 31, 2024 256,255,400 A A A Balance at Dec. 31, 2023 279,486 (270,714) \$ 8,772 Balance, shares at Dec. 31, 2023 256,260,603 A A A Issuance of common stock from the cashless exercise of warrants, shares A A A Net loss A A A \$ (3,090) Balance at Jun. 30, 2024 \$ 7,282,643 (273,804) 8,846 Balance, shares at Jun. 30, 2024 245,748,341 A A A Balance at Mar. 31, 2024 \$ 3,281,523 (271,600) 9,926 Balance, shares at Mar. 31, 2024 256,255,400 A A A Stock based compensation 15 15 Stock based compensation, shares A 14 A A Common stock issued for cash, net of cash fees \$ 4 1,104 1,108 Common stock issued for cash, net of cash fees, shares A 358,000 A A Round up shares issued in reverse split Round up shares issued in reverse split, shares A 131,967 A A Net loss (2,204) (2,204) Issuance of common stock from the conversion of preferred stock Issuance of common stock from conversion of preferred stock, shares (11) 2,881 A A A Extinguishment of derivative liabilities upon the exercise of warrants 1 1 Extinguishment of derivative liabilities upon the exercise of warrants, shares A 79 A A Balance at Jun. 30, 2024 \$ 7 282,643 \$ (273,804) \$ 8,846 Balance, shares at Jun. 30, 2024 245,748,341 A A X - DefinitionAdjustments to additional paid in capital extinguishment of derivative liability upon exercise of warrant. + ReferencesNo definition available. + Details Name: SINT AdjustmentsToAdditionalPaidInCapitalExtinguishmentOfDerivativeLiabilityUponExerciseOfWarrant Namespace Prefix: SINT_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAdjustments To Additional Paid In Capital Issuance Of Agent Warrants. + ReferencesNo definition available. + Details Name: SINT AdjustmentsToAdditionalPaidInCapitalIssuanceOfAgentWarrants Namespace Prefix: SINT_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionExtinguishment of derivative liabilities upon the exercise of warrants, shares + ReferencesNo definition available. + Details Name: SINT StockIssuedDuringPeriodSharesExtinguishmentOfDerivativeLiabilityUponExerciseOfWarrant Namespace Prefix: SINT_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionStock issued during period value of common stock from exercise of prefunded warrants for cash, shares. + ReferencesNo definition available. + Details Name: SINT StockIssuedDuringPeriodSharesOfCommonStockFromExerciseOfPrefundedWarrantsForCash Namespace Prefix: SINT_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionExtinguishment of derivative liabilities upon exercise of warrants. + ReferencesNo definition available. + Details Name: SINT StockIssuedDuringPeriodValueExtinguishmentOfDerivativeLiabilitiesUponExerciseOfWarrants Namespace Prefix: SINT_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionStock issued during period value of common stock from exercise of prefunded warrants for cash. + ReferencesNo definition available. + Details Name: SINT StockIssuedDuringPeriodValueOfCommonStockFromExerciseOfPrefundedWarrantsForCash Namespace Prefix: SINT_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionStock issued during period value reverse stock splits. + ReferencesNo definition available. + Details Name: SINT StockIssuedDuringPeriodValueReverseStockSplits Namespace Prefix: SINT_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of decrease in additional paid in capital (APIC) resulting from dividends legally declared (or paid) in excess of retained earnings balance. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap AdjustmentsToAdditionalPaidInCapitalDividendsInExcessOfRetainedEarnings Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period

Type: duration X - DefinitionAmount of other increase (decrease) in additional paid in capital (APIC). + ReferencesNo definition available. + Details Name: us-gaap AdjustmentsToAdditionalPaidInCapitalOther Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase in additional paid in capital (APIC) resulting from the issuance of warrants. Includes allocation of proceeds of debt securities issued with detachable stock purchase warrants. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.3-04\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-599-1)Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 20 -Section 25 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481284/470-20-25-2> + Details Name: us-gaap AdjustmentsToAdditionalPaidInCapitalWarrantIssued Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph \(g\) -Publisher FASB -URI https://asc.fasb.org/1943274/214746176/805-60-65-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/214746176/805-60-65-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph \(g\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2)Reference 5: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.5-03\(20\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-599-2](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-599-2)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.4-08\(g\)\(1\)\(ii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-599-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-599-1)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 9: <http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 11: [http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(b\)\(2\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1)Reference 13: <http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8>Reference 14: [http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 15: [http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 16: <http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4>Reference 17: <http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10>Reference 18: <http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7>Reference 19: [http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-04\(18\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-599-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-599-1)Reference 20: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-07\(9\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-1)Reference 21: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(1\)\(d\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-3](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-3)Reference 22: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1A](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1A)Reference 23: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(ii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1A](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1A)Reference 24: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iii\)\(A\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1A](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1A)Reference 25: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iv\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1A](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1A)Reference 26: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1A](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1A)Reference 27: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1B)Reference 28: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(A\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1B)Reference 29: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(B\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1B)Reference 30: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iv\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1B)Reference 31: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1B)Reference 32: [http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B](http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B)Reference 33: <http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7>Reference 34: <http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 35: [http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A](http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A)Reference 36: [http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1B)Reference 37: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-04\(22\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-599-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-599-1) + Details Name: us-gaap NetIncomeLoss Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of shares issued which are neither cancelled nor held in the treasury. + ReferencesNo definition available. + Details Name: us-gaap SharesOutstanding Namespace Prefix: us-gaap Data Type: xbrli:sharesItemBalance Type: na Period Type: instant X - DefinitionNumber of shares issued during the period as a result of the conversion of convertible securities. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(30\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E)Reference 5: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.3-04\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-599-1)Reference 6: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 505 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3> + Details Name: us-gaap StockIssuedDuringPeriodSharesConversionOfConvertibleSecurities Namespace Prefix: us-gaap Data Type: xbrli:sharesItemBalance Type: na Period Type: duration X - DefinitionNumber of shares issued in lieu of cash for services contributed to the entity. Number of shares includes, but is not limited to, shares issued for services contributed by vendors and founders. + ReferencesNo definition available. + Details Name: us-gaap StockIssuedDuringPeriodSharesIssuedForServices Namespace Prefix: us-gaap Data Type: xbrli:sharesItemBalance Type: na Period Type: duration X - DefinitionReduction in the number of shares during the period as a result of a reverse stock split. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2> + Details Name: us-gaap StockIssuedDuringPeriodSharesReverseStockSplits Namespace Prefix: us-gaap Data Type: xbrli:sharesItemBalance Type: na Period Type: duration X - DefinitionNumber, after forfeiture, of shares or units issued under share-based payment arrangement. Excludes shares or units issued under employee stock ownership plan (ESOP). + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(28\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.3-04\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-599-1) + Details Name: us-gaap StockIssuedDuringPeriodSharesShareBasedCompensation Namespace Prefix: us-gaap Data Type: xbrli:sharesItemBalance Type: na Period Type: duration X - DefinitionNumber of share options (or share units) exercised during the current period. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(28\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubParagraph \(c\)\(1\)\(iv\)\(02\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubParagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 5:

https://asc.fasb.org/1943274/2147481112/505-10-50-2 + Details Name: us-gaap_StockRedeemedOrCalledDuringPeriodShares Namespace Prefix: us-gaap_Data Type: xbrli:sharesItem
Type Balance Type: na Period Type: duration X - DefinitionEquity impact of the value of stock bought back by the entity at the exercise price or redemption price. + ReferencesReference 1:
https://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI
https://asc.fasb.org/1943274/2147481112/505-10-50-2 + Details Name: us-gaap_StockRedeemedOrCalledDuringPeriodValue Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: debit Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. +
ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-
02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting
Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-
gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI
https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -
Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting
Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic
946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-
210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-
05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name
Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9:
http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -
URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -
Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11:
http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -
Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting
Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13:
http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI
https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -
Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-
gaap_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: instant XML 16 R6.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Statements of Cash Flows (Unaudited) - USD (\$ in Thousands 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Cash Flows From Operating Activities $\hat{A}$ Net loss \$ (3,090) \$ (2,748) Adjustments to reconcile net loss to
net cash used in operating activities: $\hat{A}$ Depreciation expense 517 374 Amortization of right of use asset 308 369 Amortization of intangible assets 2 3 Stock based compensation 65 157
Change in fair value of derivative liabilities (3,286) (4,863) Recovery of written-off accounts receivable (4) Gain on disposal of equipment (12) Changes in operating assets and liabilities: $\hat{A}$ Trade
accounts receivable 255 (58) Prepaid expenses and other current assets 530 (336) Inventories 202 (146) Accounts payable and accrued liabilities (152) (109) Other liabilities (2) (357)
Payments on operating lease liability (281) (357) Net cash used in operating activities (4,948) (8,071) Cash Flows From Investing Activities $\hat{A}$ Purchase of property and equipment (533) (334)
Proceeds from notes receivable, net of imputed interest 320 Proceeds from sale of property and equipment 40 Net cash used in investing activities (173) (334) Cash Flows From Financing
Activities $\hat{A}$ Proceeds from issuance of warrant derivative liabilities 3,366 6,650 Proceeds from issuance of common stock and prefunded warrants, net of cash fees 3,111 4,840 Proceeds from
issuance of common stock in connection with exercise of warrants 2 Payment on debt (141) Redemption of Preferred Stock Series E (2) Net cash provided by financing activities 6,338 11,488
Net increase in cash and cash equivalents 1,217 3,083 Cash and cash equivalents at beginning of period 3,340 6,245 Cash and cash equivalents at end of period 4,557 9,328 Noncash Investing
and Financing Activities $\hat{A}$ Debt issued for prepaid insurance 335 Agent warrant offering cost allocated to equity 13 Right of use asset for amended lease liability $\hat{A}$ increase 4 Right of use
asset for lease liability 114 Reduction of derivative liability upon exercise of warrants 1 5,753 Par value of common stock upon cashless exercise of warrants 15 Par value of common stock upon
exercise of prefunded warrants 2 Supplemental Cash Flow Information $\hat{A}$ Cash paid for interest \$ 6 \$ 2 X - DefinitionAgent warrant offering cost allocated to equity. + ReferencesNo
definition available. + Details Name: SINT_AgentWarrantOfferingCostAllocatedToEquity Namespace Prefix: SINT_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionDebt issued for prepaid insurance. + ReferencesNo definition available. + Details Name: SINT_DebtIssuedForPrepaidInsurance Namespace Prefix: SINT_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionPar value of common stock upon cashless exercise of warrants. + ReferencesNo definition available. + Details
Name: SINT_ParValueOfCommonStockUponCashlessExerciseOfWarrants Namespace Prefix: SINT_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionPar value of common stock upon exercise of prefunded warrants. + ReferencesNo definition available. + Details Name: SINT_ParValueOfCommonStockUponExerciseOfPrefundedWarrants Namespace Prefix: SINT_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionProceeds from issuance of common stock exercise of warrants. + ReferencesNo definition available. + Details Name: SINT_ProceedsFromIssuanceOfCommonStockExerciseOfWarrants Namespace Prefix: SINT_Data Type: xbrli:monetaryItem
Type Balance Type: debit Period Type: duration X - DefinitionProceeds from notes receivable net of imputed interest. + ReferencesNo definition available. + Details Name: SINT_ProceedsFromNotesReceivableNetOfImputedInterest Namespace
Prefix: SINT_Data Type: xbrli:monetaryItem
Type Balance Type: debit Period Type: duration X - DefinitionReduction Of Derivative Liability Upon Exercise Of Warrants. + ReferencesNo
definition available. + Details Name: SINT_ReductionOfDerivativeLiabilityUponExerciseOfWarrants Namespace Prefix: SINT_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionRight Of Use Asset For Amended Lease Liability Increase. + ReferencesNo definition available. + Details Name: SINT_RightOfUseAssetForAmendedLeaseLiabilityIncrease Namespace Prefix: SINT_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionRight of use asset for lease liability. + ReferencesNo definition available. + Details Name: SINT_RightOfUseAssetForLeaseLiability Namespace Prefix: SINT_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract
Namespace Prefix: us-gaap_Data Type: xbrli:stringItem
Type Balance Type: na Period Type: duration X - DefinitionThe aggregate expense charged against earnings to allocate the cost of
intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is
added back to net income when calculating cash provided by or used in operations using the indirect method. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name
Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-
28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI
https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -
Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting
Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-2 + Details Name: us-
gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: debit Period Type: duration X - DefinitionAmount of cash and cash
equivalents, and cash and cash equivalents restricted to withdrawal or usage; including, but not limited to, disposal group and discontinued operations. Cash includes, but is not limited to,
currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to,
short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of
changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -
Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards
Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting
Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-
gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: debit Period Type: instant X - DefinitionAmount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect
from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of
demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity
that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name
Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-
gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 1 -SubTopic 230 -Topic 830 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-
45-1 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-
gaap_CashFlowNoncashInvestingAndFinancingActivitiesDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem
Type Balance Type: na Period Type: duration X - DefinitionThe amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production
related depreciation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -
Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic
360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_Depreciation Namespace
Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) in the fair value of derivatives recognized in the
income statement. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4A -
Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4A + Details Name: us-gaap_DerivativeGainLossOnDerivativeNet Namespace Prefix: us-gaap_Data
Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionAmount of gain (loss) on sale or disposal of property, plant and equipment assets, including oil and
gas property and timber property. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -
SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_GainLossOnSaleOfPropertyPlantEquipment Namespace Prefix: us-
gaap_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the amounts payable to vendors for
goods and services received and the amount of obligations and expenses incurred but not paid. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards
Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-
gaap_IncreaseDecreaseInAccountsPayableAndAccruedLiabilities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: debit Period Type: duration X - DefinitionThe
increase (decrease) during the reporting period in amount due within one year (or one business cycle) from customers for the credit sale of goods and services. + ReferencesReference 1:
http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI
https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccountsReceivable Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with
underlying transactions that are classified as operating activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -
Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInInventories
Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-
gaap_IncreaseDecreaseInOperatingCapitalAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem
Type Balance Type: na Period Type: duration X - DefinitionAmount of increase
(decrease) in obligation for operating lease. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -
Section 45 -Paragraph 28 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Name
Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(1) -SubTopic 20 -Topic 842 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 +
Details Name: us-gaap_IncreaseDecreaseInOperatingLeaseLiability Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) in operating liabilities classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification
-Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-
gaap_IncreaseDecreaseInOtherOperatingLiabilities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: debit Period Type: duration X - DefinitionAmount of increase
(decrease) in prepaid expenses, and assets classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -
Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-
gaap_IncreaseDecreaseInPrepaidDeferredExpenseAndOtherAssets Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionAmount of cash paid for interest, excluding capitalized interest, classified as operating activity. Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest
of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount. +
ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Subparagraph (d) -Publisher
FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-17Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -
Section 45 -Paragraph 25 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -
SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2 + Details Name: us-
gaap_InterestPaidNet Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem
Type Balance Type: credit Period Type: duration X - DefinitionAmount of cash inflow (outflow) from financing
activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment;
borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit. + ReferencesReference

1: <https://www.xbrl.org/2003/role/disclosureRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-24> + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-24> + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-24>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-25> + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-6>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-9>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147476176/805-60-65-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478666/740-323-65-2>Reference 5: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483621/220-10-50-99-2>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480678/235-10-50-99-1>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481687/323-10-50-3>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482907/825-10-50-28>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482765/220-10-50-6>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-1>Reference 12: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480175/815-40-65-1>Reference 13: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-8>Reference 14: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-11>Reference 15: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-11>Reference 16: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-4>Reference 17: <http://www.xbrl.org/2003/role/exampleRef> -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479168/946-830-55-10>Reference 18: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479105/946-220-45-7>Reference 19: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147477250/944-220-50-99-1>Reference 20: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-50-99-1>Reference 21: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-50-99-3>Reference 22: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-50-99-1A>Reference 23: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-50-99-1A>Reference 24: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-50-99-1A>Reference 25: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-50-99-1A>Reference 26: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-50-99-1A>Reference 27: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-50-99-1B>Reference 28: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(ii)(A)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-50-99-1B>Reference 29: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-50-99-1B>Reference 30: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-50-99-1B>Reference 31: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-50-99-1B>Reference 32: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482689/260-10-45-60B>Reference 33: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483499/205-20-50-7>Reference 34: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 35: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482790/220-10-45-1A>Reference 36: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482790/220-10-45-1B>Reference 37: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478524/942-220-50-99-1> + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of periodic reduction over lease term of carrying amount of right-of-use asset from operating lease. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-28> + Details Name: us-gaap_OperatingLeaseRightOfUseAssetAmortizationExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash outflow to reacquire preferred stock during the period. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-15> + Details Name: us-gaap_PaymentsForRepurchaseOfPreferredStockAndPreferenceStock Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-13> + Details Name: us-gaap_PaymentsToAcquirePropertyPlantAndEquipment Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash inflow from the additional capital contribution to the entity. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-14> + Details Name: us-gaap_ProceedsFromIssuanceOfCommonStock Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from issuance of rights to purchase common shares at predetermined price (usually issued together with corporate debt). + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-14> + Details Name: us-gaap_ProceedsFromIssuanceOfWarrants Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from the sale of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 12 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-12> + Details Name: us-gaap_ProceedsFromSaleOfPropertyPlantAndEquipment Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of expense (reversal of expense) for expected credit loss on accounts receivable. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479319/326-20-50-13>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(5)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483621/220-10-50-99-2> + Details Name: us-gaap_ProvisionForDoubtfulAccounts Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash outflow for short-term and long-term debt. Excludes payment of lease obligation. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-15> + Details Name: us-gaap_RepaymentsOfDebt Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-28> + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SupplementalCashFlowInformationAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 17 R7.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Organization and Summary of Significant Accounting Policies 6 Months Ended Jun. 30, 2024 Organization, Consolidation and Presentation of Financial Statements [Abstract] Á Organization and Summary of Significant Accounting Policies 1. Organization and Summary of Significant Accounting Policies Á The condensed consolidated financial statements include the accounts of SINTX Technologies, Inc. (â€œSINTXâ€) and its wholly-owned subsidiaries, SINTX Armor, Inc. (â€œSINTX Armorâ€) and Technology Assessment and Transfer, Inc. (TA&T), which are collectively referred to as â€œweâ€ or â€œthe Companyâ€. SINTX is an advanced ceramics company formed in December 1996, focused on providing solutions in a variety of diverse fields, including biomedical, technical, and antipathogenic applications. SINTX is a company that has grown over time from focusing on the research and development of silicon nitride for use in human interbody implants to becoming an advanced ceramics company engaged in many different fields. The core strength of the Company is the manufacturing, research, and development of advanced ceramics for external partners. The Company presently manufactures ceramic powders and components in its Salt Lake City and Maryland facilities. The SINTX Salt Lake City facility is FDA and ANVISA registered, ISO 13485:2016 certified, and ASD9100D certified. The Companyâ€™s products are primarily sold in the United States. Á The Company is focused on building revenue generating opportunities in three business industries - antipathogenic, technical (including armor), and biomedical â€ thereby connecting with current and new customers, partners and manufacturers to help realize the goal of leveraging expertise in high-tech ceramics to create new, innovative opportunities across these sectors. We expect our continued investment in research and development to provide additional revenue opportunities. Á The Companyâ€™s initial focus was the development and commercialization of products made from silicon nitride for use in spinal fusion and hip and knee replacement applications. SINTX believes it is the first and only manufacturer to use silicon nitride in medical applications primarily focused on spine fusion therapies. Since then, we have developed other applications for our silicon nitride technology as well as utilized our expertise in the use of ceramic materials in other applications. In July 2021, the Company acquired the equipment and obtained certain proprietary know-how rights with which it intends to develop, manufacture, and commercialize protective armor from boron carbide and a composite material of silicon carbide and boron carbide for military, law enforcement and civilian uses. The protective armor operations are housed in SINTX Armor. In June 2022, the Company acquired TA&T, a nearly 40-year-old business with a mission to transition advanced materials and process technologies from a laboratory environment to commercial products and services. Á On October 1, 2018, the Company completed the sale of its retail spine business to CTL Medical, a Dallas, Texas-based privately held medical device manufacturer. As a result of the sale, CTL Medical became the exclusive owner of the Companyâ€™s portfolio of metal and silicon nitride spine products, as well as access to future silicon nitride spine technologies developed by the Company. The Companyâ€™s name, Amedica, was also transferred to CTL Medical, which is now CTL Amedica. The Company serves as CTLâ€™s exclusive OEM provider of silicon nitride products. Manufacturing, R&D, and all intellectual property related to the core, non-spine, biomaterial technology including silicon nitride remains with the Company. Á On October 30, 2018, the Company amended its Certificate of Incorporation with the State of Delaware to change its corporate name to SINTX Technologies, Inc. The Company

the company's trading symbol on the NASDAQ Capital Market to æœSINTÆ. Å The Company's new corporate brand reflects both the Company's core competence in the science and production of silicon nitride ceramics and other ceramics, as well as encouraging prospects for the future, as an OEM supplier of spine implants to CTL America, and multiple opportunities outside of spine. Å Basis of Presentation Å These unaudited condensed consolidated financial statements have been prepared in accordance with the rules and regulations of the United States Securities and Exchange Commission (æœSECæ) and include all assets and liabilities of the Company. Å SEC rules and regulations allow the omission of certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. generally accepted accounting principles (æœU.S. GAAPæ) so long as the statements are not misleading. In the opinion of management, these financial statements and accompanying notes contain all adjustments (consisting of normal recurring adjustments) necessary to present fairly the financial position and results of operations for the periods presented herein. These condensed consolidated financial statements should be read in conjunction with the consolidated audited financial statements and notes thereto contained in the Company's Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on March 27, 2024. The results of operations for the six months ended June 30, 2024, are not necessarily indicative of the results to be expected for the year ending December 31, 2024. The Company's significant accounting policies are set forth in Note 1 to the consolidated financial statements in its Annual Report on Form 10-K for the year ended December 31, 2023. Å Reverse Stock Split Å On May 28, 2024, the Company effected a 1 for 200 reverse stock split of the Company's common stock. The par value and the authorized shares of the common and preferred stock were not adjusted as a result of the reverse stock split. All common stock shares, equivalents, and per-share amounts for all periods presented in these consolidated financial statements have been adjusted retroactively to reflect the reverse stock split. Å Use of Estimates Å The preparation of condensed consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the condensed consolidated financial statements and the reported amounts of revenue and expenses during the period. Actual results could differ from those estimates. As of June 30, 2024, the most significant estimate relates to derivative liabilities relating to common stock warrants. Å Liquidity and Capital Resources Å The condensed consolidated financial statements have been prepared assuming the Company will continue to operate as a going concern, which contemplates the realization of assets and settlement of liabilities in the normal course of business, and does not include any adjustments to reflect the possible future effects on the recoverability and classification of assets or the amounts and classifications of liabilities that may result from uncertainty related to its ability to continue as a going concern within one year from the date of issuance of these condensed consolidated financial statements. Å For the six months ended June 30, 2024, and 2023, the Company incurred a net loss of \$3.1 million and \$2.7 million, respectively, and used cash in operating activities of \$4.9 million and \$8.1 million, respectively. The Company had an accumulated deficit of \$273.8 million and \$270.7 million as of June 30, 2024, and December 31, 2023, respectively. We will require substantial future capital in order to continue to continue operating our business, conduct the research and development and regulatory clearance and approval activities necessary to bring our products to market, and to establish effective marketing and sales capabilities. Our existing capital resources are not sufficient to enable us to fund the completion of the development and commercialization of all of our product candidates. Å To date, the Company's operations have been principally financed from proceeds from the issuance of preferred and common stock and, to a lesser extent, cash generated from product sales. It is anticipated that the Company will continue to generate operating losses and use cash in operations. The Company's continuation as a going concern is dependent upon its ability to increase sales, and/or raise additional funds through the capital markets. Whether and when the Company can attain profitability and positive cash flows from operations or obtain additional financing is uncertain. Å We are actively seeking opportunities to raise additional capital. However, there can be no guarantee that we will be able to obtain such financing on terms favorable to us or at all. Å The Company is actively generating additional scientific and clinical data to have it published in leading industry publications. The unique features of our advanced ceramic materials are not well known, and we believe the publication of such data would help sales efforts as the Company approaches new prospects. The Company is also making additional changes to the sales strategy, including a focus on revenue growth by expanding the use of silicon nitride in other areas outside of spinal fusion applications and moving into other advanced ceramic materials outside of silicon nitride. The Company has also acquired equipment and certain proprietary know-how for the purpose of developing, manufacturing and commercializing armored plates made from boron carbide and a composite of boron carbide and silicon carbide for military, law enforcement and other civilian uses. Å On February 25, 2021, the Company entered into an Equity Distribution Agreement (as amended, the 2021 Distribution Agreement) with Maxim Group LLC (æœMaximæ), pursuant to which the Company may sell from time to time, shares of the Company's common stock having an aggregate offering price of up to \$15 million through Maxim, as agent. On October 12, 2023, the Company entered into an amendment to the Distribution Agreement, pursuant to which the expiration date of the Distribution Agreement was extended to the earlier of: (i) the sale of shares having an aggregate offering price of \$15.0 million, (ii) the termination by either Maxim or the Company upon the provision of fifteen (15) days written notice, or (iii) February 25, 2025. No other changes were made to the terms of the Distribution Agreement. The Company currently has registered up to \$3.1 million for sale under the Distribution Agreement, pursuant to the Registration Statement on Form S-3 (File No. 333-274951). As of June 30, 2024, the Company had \$0.07 million available for sale under the Distribution Agreement. On July 11, 2024, the Company filed a Prospectus Supplement with the SEC increasing the amount available for sale under the Distribution Agreement to \$3.1 million. As of June 30, 2024, there have been 12,360 shares of common stock sold under the 2021 Distribution Agreement for gross proceeds of \$1.0 million. The Company is subject to General Instruction I.B.6 of Form S-3 which limits the amounts that we may sell under the registration statement over a 12-month period to an amount equal to or less than one-third of our public float. The shares of the Company's common stock to be sold under the Distribution Agreement will be sold and issued pursuant to the Form S-3, as amended, which was previously declared effective by the Securities and Exchange Commission, and the related prospectus and one or more prospectus supplements. Å On February 10, 2023, the Company closed on a public offering of 10,750 units, with each unit consisting of one share of common stock, or one pre-funded warrant to purchase one share of its common stock, one Class C Warrant to purchase one share of common stock, and one half of one Class D Warrant with each whole Class D Warrant entitling the holder to purchase one share of common stock. Gross proceeds, before deducting offering expenses, totaled approximately \$12.0 million. Of the \$12.0 million of gross proceeds, approximately \$5.4 million were allocated to common stock and prefunded warrants (\$4.8 million net of offering costs) and approximately \$6.7 million were allocated to derivative liabilities (with approximately \$0.7 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense). Å On February 2, 2024, the Company closed on a public offering of 80,000 units, with each unit consisting of one share of its common stock, or one pre-funded warrant to purchase one share of its common stock, one Class E Warrant with each warrant to purchase one share of common stock, and one Class F Warrant with each warrant to purchase one share of common stock. Each unit was sold at a public offering price of \$50.00 resulting in gross proceeds to the Company of \$4 million before deducting offering fees and expenses. The Class E and Class F Warrants in the units will be immediately exercisable at a price of \$50.00 per share. The Class E Warrants will expire five years from the date of issuance and the Class F Warrants will expire eighteen months from the date of issuance. Of the \$4.0 million of gross proceeds, approximately \$0.6 million were allocated to common stock and prefunded warrants (\$0.5 million net of offering costs) and approximately \$3.4 million were allocated to derivative liabilities (with approximately \$0.5 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense). Å On March 26, 2024, the Company closed on a public offering of 142,000 shares of the Company's common stock, (the Offering). Each Share was sold at a public offering price of \$9.40. The aggregate proceeds to the Company from the Offering were approximately \$1.3 million before deducting placement agent fees and other estimated offering expenses payable by the Company. Å On April 5, 2024, the Company closed on a public offering of 358,000 shares of the Company's common stock, (the Offering). Each Share was sold at a public offering price of \$4.20. The aggregate proceeds to the Company from the Offering were approximately \$1.5 million before deducting placement agent fees and other offering expenses payable by the Company. Å If the Company seeks to obtain additional equity and/or debt financing, such funding is not assured and may not be available to the Company on favorable or acceptable terms and may involve significant restrictive covenants. Any additional equity financing is also not assured and, if available to the Company, will most likely be dilutive to its current stockholders. If the Company is not able to obtain additional debt or equity financing on a timely basis, the impact on the Company will be material and adverse. Å These uncertainties raise substantial doubt about our ability to continue as a going concern. The condensed consolidated financial statements do not include any adjustments that might result from the outcome of these uncertainties. Å Grant and Contract Revenue Å Revenues from grants, contracts, and awards provided by governmental agencies are recorded based upon the terms of the specific agreements, which generally provide that revenue is earned when the allowable costs specified in the applicable agreement have been incurred or a milestone has been met. Cash received from federal grants, contracts, and awards can be subject to audit by the grantor and, if the examination results in a disallowance of any expenditure, repayment could be required. Å New Accounting Pronouncements Not Yet Adopted Å On December 14, 2023, the Financial Accounting Standards Board issued Accounting Standards Update, No. 2023-09 æœImprovements to Income Tax Disclosuresæ (æœASU 2023-09æ). ASU 2023-09 enhances the detail that a business is required to disclose within its income tax footnote, including, but not limited to, a breakout of the rate reconciliation into more specific categories, such as state and local income tax, and foreign taxes. Additionally, a business must break out specific jurisdictions that encompass greater than or equal to 5% of their state and local, and foreign jurisdictions. The Company will adopt ASU 2023-09 on January 1, 2025. The adoption of this Standard is not expected to have a significant impact on the Company's financial statements. Å The Company has reviewed all other recently issued, but not yet adopted, accounting standards, in order to determine their effects, if any, on its results of operations, financial position or cash flows. Based on that review, the Company believes that no other pronouncements will have a significant effect on its financial statements. Å X - ReferencesNo definition available. + Details Name: us-gaap.OrganizationConsolidationAndPresentationOffFinancialStatementsAbstract Namespace Prefix: us-gaap_Data Type: xbrl:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for the organization, consolidation and basis of presentation of financial statements disclosure, and significant accounting policies of the reporting entity. May be provided in more than one note to the financial statements, as long as users are provided with an understanding of (1) the significant judgments and assumptions made by an enterprise in determining whether it must consolidate a VIE and/or disclose information about its involvement with a VIE, (2) the nature of restrictions on a consolidated VIE's assets reported by an enterprise in its statement of financial position, including the carrying amounts of such assets, (3) the nature of, and changes in, the risks associated with an enterprise's involvement with the VIE, and (4) how an enterprise's involvement with the VIE affects the enterprise's financial position, financial performance, and cash flows. Describes procedure if disclosures are provided in more than one note to the financial statements. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 235 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/235/tableOfContentReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 275 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/275/tableOfContentReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/810/tableOfContentReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/205/tableOfContent + Details Name: us-gaap.OrganizationConsolidationAndPresentationOffFinancialStatementsDisclosureAndSignificantAccountingPoliciesTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 18.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basic and Diluted Net Income (Loss) per Common Share 6 Months Ended June 30, 2024 Net loss per share æœ basic and diluted Å Basic and Diluted Net Income (Loss) per Common Share 2. Basic and Diluted Net Income (Loss) per Common Share Å Basic net income (loss) per share is calculated by dividing the net income (loss) by the weighted-average number of common shares outstanding for the period, without consideration for common stock equivalents. Diluted net loss per share is calculated by dividing the net loss by the weighted-average number of common share equivalents outstanding for the period that are determined to be dilutive. Common stock equivalents are primarily comprised of preferred stock and warrants for the purchase of common stock. The Company had potentially dilutive securities that were not included in the fully diluted loss per share calculation because they would have been antidilutive totaling approximately 79 thousand and 6 thousand as of June 30, 2024, and 2023, respectively. Å Below are basic and diluted loss per share data for the three months ended June 30, 2024, which are in thousands except for share and per share data: Å Schedule of Basic and Diluted Loss Per Share Å Basic CalculationÅ Effect of Dilutive Warrant SecuritiesÅ Diluted CalculationÅ Numerator:Å Å Å Å Å Å Å Å Å Å Net lossÅ (\$2,204)Å (\$312)Å (\$2,516) Deemed dividend and accretion of a discountÅ Å (26)Å Å Å Å (26) Net loss attributable to common stockholdersÅ (\$2,774)Å (\$4,557)Å (\$7,331) Å Å Å Å Å Å Å Å Å Denominator:Å Å Å Å Å Å Å Å Å Å Number of shares used in per common share calculations:Å Å 631,212Å Å 66,656Å Å 697,868Å Å Å Å Å Å Å Å Å Å Net loss per common share:Å Å Å Å Å Å Å Å Å Å Net lossÅ (\$173.01)Å (\$8,589.28)Å (\$445.06) Deemed dividend and accretion of a discountÅ Å (1.64)Å Å Å Å (1.58) Net lossÅ (\$3.49)Å (\$4.69)Å (\$3.61) Å Below are basic and diluted loss per share data for the six months ended June 30, 2024, which are in thousands except for share and per share data: Å Basic CalculationÅ Effect of Dilutive Warrant SecuritiesÅ Diluted CalculationÅ Numerator:Å Å Å Å Å Å Å Å Å Å Net lossÅ (\$3,090)Å (\$3,283)Å (\$6,373) Å Å Å Å Å Å Å Å Å Å Denominator:Å Å Å Å Å Å Å Å Å Å Number of shares used in per common share calculations:Å Å 358,763Å Å 108,993Å Å 467,756Å Å Å Å Å Å Å Å Å Å Net loss per common share:Å Å Å Å Å Å Å Å Å Å Net lossÅ (\$8.61)Å (\$30.12)Å (\$13.62) Å Below are basic and diluted loss per share data for the three months ended June 30, 2023, which are in thousands except for share and per share data: Å Å Å Å Effect of Å Å Å Å DilutiveÅ Å Å Å BasicÅ Å WarrantÅ Å DilutedÅ Å CalculationÅ Å SecuritiesÅ Å CalculationÅ Numerator:Å Å Å Å Å Å Å Å Å Å Net lossÅ (\$2,455)Å (\$964)Å (\$

[FASB](#) | [XBRL](#) | [asc.fasb.org/330/tableOfContentDetailsNamePrefix-us-gaap-Data-Type-dtr-types:textBlockItemTypeBalanceType-na:Period Type:duration XML 20 R10.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value Measurements 6 Months Ended Jun. 30, 2024 Fair Value Disclosures \[Abstract\] Á Fair Value Measurements 4. Fair Value Measurements Á Financial Instruments Measurement and Recorded at Fair Value on a Recurring Basis Á The Company has issued certain warrants to purchase shares of common stock, which are considered derivative liabilities because they have registration rights which could require a cash settlement and are re-measured to fair value at each reporting period in accordance with accounting guidance. Fair value is based on the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date, under a three-tier fair value hierarchy which prioritizes the inputs used in measuring fair value as follows: Á Level 1 - quoted market prices for identical assets or liabilities in active markets. Á Á Level 2 - observable prices that are based on inputs not quoted on active markets but corroborated by market data. Á Á Level 3 - unobservable inputs reflecting management's assumptions, consistent with reasonably available assumptions made by other market participants. These valuations require significant judgment. Á The Company classifies assets and liabilities measured at fair value in their entirety based on the lowest level of input that is significant to their fair value measurement. No financial assets were measured on a recurring basis as of June 30, 2024, and December 31, 2023. The following tables set forth the financial liabilities measured at fair value on a recurring basis by level within the fair value hierarchy as of June 30, 2024, and December 31, 2023 \(in thousands\): Á Schedule of Financial Liabilities Measured at Fair Value on Recurring Basis by Level Á Fair Value Measurements as of June 30, 2024 Description Level 1Á Level 2Á Level 3Á TotalÁ Derivative liabilityÁ Á Á Á Á Á Á Á Á Á Common stock warrantsÁ \\$Á Á Á Á Á Á Á Á Á Á Á Á Á Á \\$397Á \\$397Á Á Á Fair Value Measurements as of December 31, 2023Á Description Level 1Á Level 2Á Level 3Á TotalÁ Derivative liabilityÁ Á Á Á Á Á Á Á Á Á Common stock warrantsÁ \\$Á Á Á Á Á Á Á Á Á Á Á Á Á Á \\$304Á Á Á The Company did not have any transfers of assets and liabilities between Level 1 and Level 2 of the fair value measurement hierarchy during the six months ended June 30, 2024, and 2023. The following table presents a reconciliation of the derivative liabilities measured at fair value on a recurring basis using significant unobservable inputs \(Level 3\) during the six months ended June 30, 2024, and 2023 \(in thousands\): Á Schedule of Fair Value Measurement Hierarchy of Derivative Liability Á Common Stock WarrantsÁ Balance as of December 31, 2022Á \\$\(5,126\) Issuance of derivativesÁ Á \(6,650\) Exercise of warrantsÁ Á 5,753Á Change in fair valueÁ Á 4,971Á OtherÁ Á Á Balance as of June 30, 2023Á \\$\(1,051\) Á Á Á Balance as of December 31, 2023Á \\$\(304\) Issuance of derivativesÁ Á \(3,366\) Exercise of warrantsÁ Á 2Á Change in fair valueÁ Á 3,286Á OtherÁ Á \(15\) Balance as of June 30, 2024Á \\$\(397\) Á Common Stock Warrants Á The Company has issued certain warrants to purchase shares of common stock, which are considered derivative liabilities because they have registration rights which could require a cash settlement and are re-measured to fair value at each reporting period in accordance with accounting guidance. As of June 30, 2024, and December 31, 2023, the derivative liability was calculated using the Monte Carlo Simulation valuation. Á The assumptions used in estimating the common stock warrant liability using the Monte Carlo simulation valuation model as of June 30, 2024, and December 31, 2023, were as follows: Á Schedule of Assumptions used in Estimating Fair Value Á Á June 30, 2024 Á Á December 31, 2023 Á Weighted-average risk-free interest rateÁ Á 4.32%-5.21%Á Á 3.93-4.79 % Weighted-average expected life \(in years\)Á Á 0.60-4.59 Á Á 1.10-4.12 Á Expected dividend yieldÁ Á -% Á -% Weighted-average expected volatilityÁ Á 135.0%-195.0 %Á Á 113.1%-125.7 % Á Other Financial Instruments Á The Company's recorded values of cash and cash equivalents, account and other receivables, accounts payable and accrued liabilities approximate their fair values based on their short-term nature. The recorded value of notes payable approximates the fair value as the interest rate approximates market interest rates. Á X - ReferencesNo definition available. + Details Name: us-gaap FairValueDisclosuresAbstract Namespace Prefix: us-gaap Data Type: xbrl:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for the fair value of financial instruments \(as defined\), including financial assets and financial liabilities \(collectively, as defined\), and the measurements of those instruments as well as disclosures related to the fair value of non-financial assets and liabilities. Such disclosures about the financial instruments, assets, and liabilities would include: \(1\) the fair value of the required items together with their carrying amounts \(as appropriate\); \(2\) for items for which it is not practicable to estimate fair value, disclosure would include: \(a\) information pertinent to estimating fair value \(including, carrying amount, effective interest rate, and maturity, and \(b\) the reasons why it is not practicable to estimate fair value; \(3\) significant concentrations of credit risk including: \(a\) information about the activity, region, or economic characteristics identifying a concentration, \(b\) the maximum amount of loss the entity is exposed to based on the gross fair value of the related item, \(c\) policy for requiring collateral or other security and information as to accessing such collateral or security, and \(d\) the nature and brief description of such collateral or security; \(4\) quantitative information about market risks and how such risks are managed; \(5\) for items measured on both a recurring and nonrecurring basis information regarding the inputs used to develop the fair value measurement; and \(6\) for items presented in the financial statement for which fair value measurement is elected: \(a\) information necessary to understand the reasons for the election, \(b\) discussion of the effect of fair value changes on earnings, \(c\) a description of \[similar groups\] items for which the election is made and the relation thereof to the balance sheet, the aggregate carrying value of items included in the balance sheet that are not eligible for the election; \(7\) all other required \(as defined\) and desired information. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 107-Publisher FASB-URI https://asc.fasb.org/1943274/2147482078/820-10-55-107>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 100-Publisher FASB-URI https://asc.fasb.org/1943274/2147482078/820-10-55-100>Reference 3: \[http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \\(c\\)\\(3\\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-2\]\(http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\)\(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-2\)Reference 4: \[http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \\(a\\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6\]\(http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6\)Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2E-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-2E>Reference 6: \[http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \\(h\\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A\]\(http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \(h\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A\)Reference 7: \[http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \\(f\\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A\]\(http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A\)Reference 8: \[http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \\(e\\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A\]\(http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A\)Reference 9: \[http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \\(g\\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A\]\(http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \(g\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A\)Reference 10: \[http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \\(d\\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A\]\(http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6A-Subparagraph \(d\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A\)Reference 11: \[http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \\(g\\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-2\]\(http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(g\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482106/820-10-50-2\)Reference 12: \[http://www.xbrl.org/2003/role/disclosureRef-Topic 940-SubTopic 820-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \\(a\\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481139/940-820-50-1\]\(http://www.xbrl.org/2003/role/disclosureRef-Topic 940-SubTopic 820-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481139/940-820-50-1\) + Details Name: us-gaap FairValueDisclosuresTextBlock Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItemType Balance](#)

(the “Purchasers”), and a placement agency agreement dated as of January 31, 2024 (the “PAA”) with Maxim Group LLC (the “Placement Agent”). Each Common Unit was sold at a public offering price of \$50.00 and each Pre-Funded Warrant Unit was sold at a public offering price of \$49.98. The Class E Warrants and the Class F Warrants are immediately exercisable (subject to the beneficial ownership cap at 4.99% or 9.99%) for one share of the Company’s Common Stock at an exercise price of \$50.00 per share. The Class E Warrants will expire five years from the date of issuance and the Class F Warrants will expire 18 months from the date of issuance. Each Pre-Funded Warrant is exercisable for one share of the Company’s Common Stock at an exercise price of \$0.0001 per share. The Pre-Funded Warrants are immediately exercisable (subject to the beneficial ownership cap at 4.99% or 9.99%) and may be exercised at any time until all of the Pre-Funded Warrants are exercised in full. The Company engaged Maxim Group LLC as the Company’s sole placement agent for the Offering pursuant to the PAA. Pursuant to the PAA, the Company agreed to pay the Placement Agent a cash placement fee equal to 7.0% of the gross proceeds of the Offering, plus reimbursement of certain expenses and legal fees up to \$100,000. The Company also agreed to issue up to 3,200 Common Stock purchase warrants to the Placement Agent (the “Placement Agent Warrants”). The Placement Agent Warrants are exercisable at an exercise price of \$55.00. The Placement Agent Warrants will be exercisable beginning July 31, 2024, and will expire five years after the commencement of sales in the offering. A 2023 Registered Offering A On February 10, 2023, the Company closed on a public offering of 10,750 units, with each unit consisting of one share of common stock, or one pre-funded warrant to purchase one share of its common stock, one Class C Warrant to purchase one share of common stock, and one half of one Class D Warrant with each whole Class D Warrant entitling the holder to purchase one share of common stock. Each unit was sold at a public offering price of \$1,120.00. The Class C and Class D Warrants are immediately exercisable at a price of \$1,120.00 per share. The Class C and Class D warrants each have a cashless exercise provision entitling the holders to surrender one Class C Warrant and receive 0.4 shares of common stock and on the surrender of one Class D Warrant the holder is entitled to receive 0.8 shares of common stock. The Class C Warrants expire five years from the date of issuance and the Class D Warrants expire three years from the date of issuance. The shares of common stock (or pre-funded warrants in lieu thereof) and accompanying warrants were only purchasable together in this offering but were issued separately and were immediately separable upon issuance. In addition, the company issued a total of 430 common stock warrants to the placement agent, Maxim Group, and the Company’s financial advisor, Ascendant Capital. Gross proceeds, before deducting offering expenses, totaled approximately \$12.0 million. Of the \$12.0 million of gross proceeds, approximately \$5.4 million were allocated to common stock and prefunded warrants (\$4.8 million net of offering costs) and approximately \$6.7 million were allocated to derivative liabilities (with approximately \$0.7 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense). A 2021 Equity Distribution Agreement A Maxim may sell the Shares by any method permitted by law deemed to be an “at-the-market” offering (the “ATM”) as defined in Rule 415 promulgated under the Securities Act of 1933, as amended (the “Securities Act”), including, without limitation, sales made directly on the Nasdaq Capital Market. We have no obligation to sell any shares under the ATM and may at any time suspend offers under the 2021 Distribution Agreement. On October 12, 2023, the Company entered into an amendment to the Distribution Agreement, pursuant to which the expiration date of the Distribution Agreement was extended to the earlier of: (i) the sale of shares having an aggregate offering price of \$15.0 million, (ii) the termination by either Maxim or the Company upon the provision of fifteen (15) days written notice, or (iii) February 25, 2025. No other changes were made to the terms of the Distribution Agreement. Under the terms of the Distribution Agreement, Maxim will be entitled to a transaction fee at a fixed rate of 2.0% of the gross sales price of Shares sold under the 2021 Distribution Agreement. The Company will also reimburse Maxim for certain expenses incurred in connection with the Distribution Agreement and agreed to provide indemnification and contribution to Maxim with respect to certain liabilities under the Securities Act and the Securities Exchange Act of 1934, as amended. The Company currently has registered up to \$3.1 million for sale under the Distribution Agreement, pursuant to the Registration Statement on Form S-3 (File No. 333-274951). On July 11, 2024, the Company filed a Prospectus Supplement with the SEC increasing the amount available for sale under the Distribution Agreement to \$3.1 million. As of June 30, 2024, there have been 12,360 shares of common stock sold under the 2021 Distribution Agreement for gross proceeds of \$1.0 million. Because the company’s public float is less than \$75 million, the Company is subject to General Instruction I.B.6 of Form S-3 which limits the amounts that we may sell under the registration statement over a 12-month period to an amount equal to or less than one-third of our public float. The shares of the Company’s common stock to be sold under the Distribution Agreement will be sold and issued pursuant to the Form S-3, as amended, which was previously declared effective by the Securities and Exchange Commission, and the related prospectus and one or more prospectus supplements. A X - ReferencesNo definition available. + Details Name: us-gaap_EquityAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for equity. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph \(h\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(d\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2)Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/214747848/946-505-50-6>Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480237/815-40-50-6](http://www.xbrl.org/2003/role/disclosureRef-Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480237/815-40-50-6)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.4-08\(e\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1)Reference 10: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/505/tableOfContent>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13>Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph \(g\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13)Reference 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13)Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14)Reference 15: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14)Reference 16: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 16 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-16](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 16 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-16)Reference 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18)Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18)Reference 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph \(d\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18) + Details Name: us-gaap_StockholdersEquityNoteDisclosureTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 24 R14.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation 6 Months Ended Jun. 30, 2024 Share-Based Payment Arrangement [Abstract] A Stock-Based Compensation 8. Stock-Based Compensation A Summary of the Company’s outstanding stock option activity for the six months ended June 30, 2024, and 2023 is as follows: A Schedule of Stock Option Activity A A A A June 30, 2024A A A A A A A A Weighted- AverageA A Weighted- Average Remaining ContractualA A IntrinsicA A OptionsA A Exercise PriceA A Life (Years)A A ValueA As of December 31, 2023A A 60A A \$21,954A A 6.9A A \$-A GrantedA A A A A A A A A A A A ExercisedA A A A A A A A A A A A ForfeitedA A A A A A A A A A A A ExpiredA A (1)A A 891,768,343A A A A A A A A A A A A As of June 30, 2024A A 59A A \$16,117A A A 6.3A A \$-A Exercisable at June 30, 2024A A 56A A \$24,932A A A 6.5A A \$-A Vested and expected to vest at June 30, 2024A A 47A A \$16,145A A A 6.2A A \$-A A A A A A A June 30, 2023A A A A A A A A A A A A Weighted- AverageA A Weighted- Average Remaining ContractualA A IntrinsicA A OptionsA A Exercise PriceA A Life (Years)A A ValueA As of December 31, 2022A A 60A A \$46,800A A 6.9A A \$-A GrantedA A A A A A A A A A A A ExercisedA A A A A A A A A A A A ForfeitedA A A A A A A A A A A A ExpiredA A A A A A A A A A A A As of June 30, 2023A A 51A A \$23,800A A A 7.4A A \$-A The Company estimates the fair value of each stock option on the grant date using the Black-Scholes-Merton valuation model, which requires several estimates including an estimate of the fair value of the underlying common stock on grant date. The expected volatility was based on an average of the historical volatility of the Company. The expected term was contractual life of option. The risk-free interest rate was based on the U.S. Treasury yield curve in effect at the time of grant for the expected term of the option. The Company did not grant any stock options during the first quarter of 2023. A Of the 60 options outstanding as of June 30, 2024, 18 were awarded to non-executive members of the board of directors. A Unrecognized stock-based compensation as of June 30, 2024, is as follows (in thousands): A Schedule of Unrecognized Stock-based Compensation A A A A Weighted AverageA A Unrecognized Stock-BasedA A Remaining of RecognitionA A CompensationA A (in years)A Stock optionsA A A A A A 26A A A 0.3A Stock grantsA A 25A A A 2.0A A X - DefinitionThe entire disclosure for share-based payment arrangement. + ReferencesReference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(1\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/exampleRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(h\)\(2\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(h\)\(2\)\(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(l\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (l) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 25 R15.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies 6 Months Ended Jun. 30, 2024 Commitments and Contingencies Disclosure [Abstract] A Commitments and Contingencies 9. Commitments and Contingencies A The Company has executed agreements with certain executive officers of the Company which, upon the occurrence of certain events related to a change in control, call for payments to the executives up to three times their annual salary and accelerated vesting of previously granted stock options. A From time to time, the Company is subject to various claims and legal proceedings covering matters that arise in the ordinary course of its business activities. Management believes any liability that may ultimately result from the resolution of these matters will not have a material adverse effect on the Company’s consolidated financial position, operating results or cash flows. A X - ReferencesNo definition available. + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for commitments and contingencies. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 405 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/405-30/tableOfContent>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4)Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 450 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/450/tableOfContent>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 954 -SubTopic 440 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478522/954-440-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 954 -SubTopic 440 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478522/954-440-50-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4)Reference 6: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 440 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/440/tableOfContent> + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 26 R16.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Leases 6 Months Ended Jun. 30, 2024 Leases A Leases 10. Leases A The Company has entered into multiple operating leases from which it conducts its business. A SINTX A With respect to SINTX operations, the Company leases 30,764 square feet of office, warehouse and manufacturing space under a single operating lease. This lease expires in October 2031. The lease has one five-year extension option. A SINTX Armor A On August 19, 2021, the Company, on behalf of SINTX Armor, entered into an Industrial Lease Agreement (the “SINTX Armor Lease”) pursuant to which the Company has agreed to lease approximately 10,936 square feet of office and manufacturing space from which SINTX Armor will conduct its operations. The term of the SINTX Armor Lease is 122 months through October 2031. A TA&T A In connection with operation of its business, TA&T has entered into various leases for approximately 15,840 square feet of office and manufacturing space from which it conducts its research, development and manufacturing activities. The leases have various expiration dates ranging from July 2025 through April 2030. Subsequent to December 31, 2023, we entered into an amended lease agreement reducing this area to 13,560 square feet. The leases have various expiration dates ranging from July 2024 through April 2025. A Leases with an initial term of 12 months or less are not recorded on the balance sheet. Lease expense is recognized on a straight-line basis over the term of the lease. The Company accounts for lease components separately from the non-lease components. The depreciable life of the assets and leasehold improvements are limited by the expected lease term. A As of June 30, 2024, the operating lease right-of-use assets totaled approximately \$3.8 million, and the operating lease liability totaled approximately \$3.9 million. Non-cash operating lease expense during the six months ended June 30, 2024 and 2023, totaled approximately \$0.3 and \$0.4 million, respectively. As of June 30, 2024, the weighted-average discount rate for the Company’s operating lease was 8.7%. A Operating lease future minimum payments together with the present values as of June 30, 2024, are summarized as follows: A Schedule of Operating Lease Future Minimum Payments Years Ending December 31, A June 30, 2024A 2024A \$415A 2025A \$738A 2026A \$688A 2027A \$688A 2028A \$709A ThereafterA \$1,124A Total future minimum lease paymentsA \$5,342A Less amounts representing interestsA (1,419) Present value of lease liabilityA \$3,923A A A A A Current-portion of operating lease liabilityA \$494A Long-term portion operating lease liabilityA \$3,429A A X - ReferencesNo definition available. + Details Name: SINT_DisclosureLeasesAbstract Namespace Prefix: SINT_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/842-20/tableOfContent> + Details Name: us-gaap_LesseeOperatingLeasesTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 27 R17.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Subsequent Events 6 Months Ended Jun. 30, 2024 Subsequent Events [Abstract] A Subsequent Events 11. Subsequent Events A Reverse Split A On May 23, 2024, the Company announced that its board of directors had declared a 1-for-200 reverse stock split of the company’s common stock. The

reverse stock split became effective on May 28, 2024 (the “Effective Date”) at 12:01 AM Eastern. The Company’s common stock began trading on a split-adjusted basis on May 28, 2024, under the current trading symbol “SINT.” The reverse stock split was primarily intended to bring the Company into compliance with the minimum bid price requirements for maintaining its listing on the Nasdaq Capital Market. The new CUSIP number for the Company’s shares of common stock following the reverse split will be 829392 703. As a result of the reverse stock split, every 200 shares of the Company’s common stock issued and outstanding were automatically reclassified into one new share of common stock. Proportionate adjustments were made to the conversion and exercise prices and the number of shares underlying the Company’s outstanding warrants, preferred stock, equity awards and the number of shares reserved under the Company’s equity incentive plan. The reverse stock split did not affect the number of authorized shares of common stock or the par value of the common stock. The reverse stock split will affect all stockholders uniformly and will not alter any stockholder’s percentage interest in the company, except to the extent that the reverse stock split would result in a stockholder owning a fractional share. Any fractional shares of common stock resulting from the reverse stock split will be rounded up to the nearest whole share and no stockholders will receive cash in lieu of fractional shares. A NASDAQ Compliance A On June 11, 2024, the Company received notice from The Nasdaq Stock Market LLC (“Nasdaq”) that the Company has evidenced compliance with the \$1.00 minimum bid price requirement for continued listing on The Nasdaq Capital Market under Nasdaq Listing Rule 5550(a)(2) (the “Bid Price Rule”). The Company remains subject to a “Mandatory Panel Monitor,” as that term is defined in Listing Rule 5815(d)(4)(B), for a period of one year from June 11, 2024. If, within the one-year period, the Company fails to satisfy the minimum \$1.00 closing bid price threshold for 30 consecutive business days, Nasdaq will issue a delist determination rather than provide the Company with a grace period to regain compliance with the Bid Price Rule. In that event, the Company would have the opportunity to request a new hearing to address the deficiency. A Appointment of CEO and President A On August 1, 2024, the board of directors appointed Eric Olson to the office of Chief Executive Officer and President. B. Sonny Bal, MD, continues to serve on the Company’s board of directors in the position of Chairman. A Company-Wide Reduction in Workforce A On August 8, 2024, the Board of Directors approved a plan to implement a Company-wide reduction in workforce. This decision is part of the Company’s ongoing strategic review of its operations aimed at improving operational efficiency and reducing costs. The reduction in force will reduce the number of employees of the Company from 40 to 23. David O’Neil’s employment as the Company’s Executive Vice President and Chief Operating Officer was terminated as part of the reduction in force. The Company is currently assessing the costs associated with this decision, including employee severance. These costs will be disclosed in the Company’s future financial statements as more information becomes available. A Cease Efforts to Make the Armor Plant Operational A On August 12, 2024, the Board of Directors of the Company approved a plan to cease efforts to make the armor plant operational. This decision was made to streamline operations and focus on core business areas that align with the Company’s long-term strategic goals. The armor plant has not been fully operational since the acquisition of the armor equipment in July 2021 and has been completely shut down since October 2023 due to the malfunctioning of the sintering furnace. A In connection with this decision the Company expects to incur an impairment charge of approximately \$4.5 million. This charge primarily relates to the write-down of certain long-lived assets associated with the Armor plant to their estimated fair value. The impairment charge will be reflected in the Company’s financial statements for the quarter ended September 30, 2024. The Company is currently assessing other costs associated with this decision, including employee severance and other exit costs. These costs will be disclosed in the Company’s future financial statements as more information becomes available. A The Company’s insurance carrier has determined that a covered loss occurred when the sintering furnace malfunctioned, and coverage is available for the Company’s repair of the sintering furnace. However, the Company’s efforts to fully repair the damaged furnace continue to be delayed. Management will work with the insurance company to continue to fund the repair of the furnace. When the furnace is fully repaired, management hopes to sell the furnace, and related equipment, to a third party. However, the full repair and sale of the furnace, and related equipment, cannot be assured. Therefore, in the calculation of the \$4.5 million estimated impairment charge, management has assumed no proceeds will be received from a potential sale of the furnace and related equipment. X - ReferencesNo definition available. + Details Name: us-gaap-SubsequentEventsAbstract Namespace Prefix: us-gaap- Data Type: xbrl:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for significant events or transactions that occurred after the balance sheet date through the date the financial statements were issued or the date the financial statements were available to be issued. Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/855/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483399/855-10-50-2 + Details Name: us-gaap-SubsequentEventsTextBlock Namespace Prefix: us-gaap- Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 28 R18.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Organization and Summary of Significant Accounting Policies (Policies) 6 Months Ended June 30, 2024 Organization, Consolidation and Presentation of Financial Statements [Abstract] A Basis of Presentation Basis of Presentation A These unaudited condensed consolidated financial statements have been prepared in accordance with the rules and regulations of the United States Securities and Exchange Commission (“SEC”) and include all assets and liabilities of the Company. A SEC rules and regulations allow the omission of certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. generally accepted accounting principles (“U.S. GAAP”) so long as the statements are not misleading. In the opinion of management, these financial statements and accompanying notes contain all adjustments (consisting of normal recurring adjustments) necessary to present fairly the financial position and results of operations for the periods presented herein. These condensed consolidated financial statements should be read in conjunction with the consolidated audited financial statements and notes thereto contained in the Company’s Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on March 27, 2024. The results of operations for the six months ended June 30, 2024, are not necessarily indicative of the results to be expected for the year ending December 31, 2024. The Company’s significant accounting policies are set forth in Note 1 to the consolidated financial statements in its Annual Report on Form 10-K for the year ended December 31, 2023. A Reverse Stock Split Reverse Stock Split A On May 28, 2024, the Company effected a 1 for 200 reverse stock split of the Company’s common stock. The par value and the authorized shares of the common and preferred stock were not adjusted as a result of the reverse stock split. All common stock shares, equivalents, and per-share amounts for all periods presented in these consolidated financial statements have been adjusted retroactively to reflect the reverse stock split. A Use of Estimates Use of Estimates A The preparation of condensed consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the condensed consolidated financial statements and the reported amounts of revenue and expenses during the period. Actual results could differ from those estimates. As of June 30, 2024, the most significant estimate relates to derivative liabilities relating to common stock warrants. A Liquidity and Capital Resources Liquidity and Capital Resources A The condensed consolidated financial statements have been prepared assuming the Company will continue to operate as a going concern, which contemplates the realization of assets and settlement of liabilities in the normal course of business, and does not include any adjustments to reflect the possible future effects on the recoverability and classification of assets or the amounts and classifications of liabilities that may result from uncertainty related to its ability to continue as a going concern within one year from the date of issuance of these condensed consolidated financial statements. A For the six months ended June 30, 2024, and 2023, the Company incurred a net loss of \$3.1 million and \$2.7 million, respectively, and used cash in operating activities of \$4.9 million and \$8.1 million, respectively. The Company had an accumulated deficit of \$273.8 million and \$270.7 million as of June 30, 2024, and December 31, 2023, respectively. We will require substantial future capital in order to continue to continue operating our business, conduct the research and development and regulatory clearance and approval activities necessary to bring our products to market, and to establish effective marketing and sales capabilities. Our existing capital resources are not sufficient to enable us to fund the completion of the development and commercialization of all of our product candidates. A To date, the Company’s operations have been principally financed from proceeds from the issuance of preferred and common stock and, to a lesser extent, cash generated from product sales. It is anticipated that the Company will continue to generate operating losses and use cash in operations. The Company’s continuation as a going concern is dependent upon its ability to increase sales, and/or raise additional funds through the capital markets. Whether and when the Company can attain profitability and positive cash flows from operations or obtain additional financing is uncertain. A We are actively seeking opportunities to raise additional capital. However, there can be no guarantee that we will be able to obtain such financing on terms favorable to us or at all. A The Company is actively generating additional scientific and clinical data to have it published in leading industry publications. The unique features of our advanced ceramic materials are not well known, and we believe the publication of such data would help sales efforts as the Company approaches new prospects. The Company is also making additional changes to the sales strategy, including a focus on revenue growth by expanding the use of silicon nitride in other areas outside of spinal fusion applications and moving into other advanced ceramic materials outside of silicon nitride. The Company has also acquired equipment and certain proprietary know-how for the purpose of developing, manufacturing and commercializing armored plates made from boron carbide and a composite of boron carbide and silicon carbide for military, law enforcement and other civilian uses. A On February 25, 2021, the Company entered into an Equity Distribution Agreement (as amended, the “2021 Distribution Agreement”) with Maxim Group LLC (“Maxim”), pursuant to which the Company may sell from time to time, shares of the Company’s common stock having an aggregate offering price of up to \$15 million through Maxim, as agent. On October 12, 2023, the Company entered into an amendment to the Distribution Agreement, pursuant to which the expiration date of the Distribution Agreement was extended to the earlier of: (i) the sale of shares having an aggregate offering price of \$15.0 million, (ii) the termination by either Maxim or the Company upon the provision of fifteen (15) days written notice, or (iii) February 25, 2025. No other changes were made to the terms of the Distribution Agreement. The Company currently has registered up to \$3.1 million for sale under the Distribution Agreement, pursuant to the Registration Statement on Form S-3 (File No. 333-274951). As of June 30, 2024, the Company had \$0.07 million available for sale under the Distribution Agreement. On July 11, 2024, the Company filed a Prospectus Supplement with the SEC increasing the amount available for sale under the Distribution Agreement to \$3.1 million. As of June 30, 2024, there have been 12,360 shares of common stock sold under the 2021 Distribution Agreement for gross proceeds of \$1.0 million. The Company is subject to General Instruction I.B.6 of Form S-3 which limits the amounts that we may sell under the registration statement over a 12-month period to an amount equal to or less than one-third of our public float. The shares of the Company’s common stock to be sold under the Distribution Agreement will be sold and issued pursuant to the Form S-3, as amended, which was previously declared effective by the Securities and Exchange Commission, and the related prospectus and one or more prospectus supplements. A On February 10, 2023, the Company closed on a public offering of 10,750 units, with each unit consisting of one share of common stock, or one pre-funded warrant to purchase one share of its common stock, one Class C Warrant to purchase one share of common stock, and one half of one Class D Warrant with each whole Class D Warrant entitling the holder to purchase one share of common stock. Gross proceeds, before deducting offering expenses, totaled approximately \$12.0 million. Of the \$12.0 million of gross proceeds, approximately \$5.4 million were allocated to common stock and prefunded warrants (\$4.8 million net of offering costs) and approximately \$6.7 million were allocated to derivative liabilities (with approximately \$0.7 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense). A On February 2, 2024, the Company closed on a public offering of 80,000 units, with each unit consisting of one share of its common stock, or one pre-funded warrant to purchase one share of its common stock, one Class E Warrant with each warrant to purchase one share of common stock, and one Class F Warrant with each warrant to purchase one share of common stock. Each unit was sold at a public offering price of \$50.00 resulting in gross proceeds to the Company of \$4 million before deducting offering fees and expenses. The Class E and Class F Warrants in the units will be immediately exercisable at a price of \$50.00 per share. The Class E Warrants will expire five years from the date of issuance and the Class F Warrants will expire eighteen months from the date of issuance. Of the \$4.0 million of gross proceeds, approximately \$0.6 million were allocated to common stock and prefunded warrants (\$0.5 million net of offering costs) and approximately \$3.4 million were allocated to derivative liabilities (with approximately \$0.5 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense). A On March 26, 2024, the Company closed on a public offering 142,000 shares of the Company’s common stock, (the “Offering”). Each Share was sold at a public offering price of \$9.40. The aggregate proceeds to the Company from the Offering were approximately \$1.3 million before deducting placement agent fees and other estimated offering expenses payable by the Company. A On April 5, 2024, the Company closed on a public offering 358,000 shares of the Company’s common stock, (the “Offering”). Each Share was sold at a public offering price of \$4.20. The aggregate proceeds to the Company from the Offering were approximately \$1.5 million before deducting placement agent fees and other offering expenses payable by the Company. A If the Company seeks to obtain additional equity and/or debt financing, such funding is not assured and may not be available to the Company on favorable or acceptable terms and may involve significant restrictive covenants. Any additional equity financing is also not assured and, if available to the Company, will most likely be dilutive to its current stockholders. If the Company is not able to obtain additional debt or equity financing on a timely basis, the impact on the Company will be material and adverse. A These uncertainties raise substantial doubt about our ability to continue as a going concern. The condensed consolidated financial statements do not include any adjustments that might result from the outcome of these uncertainties. A Grant and Contract Revenue Grant and Contract Revenue A Revenues from grants, contracts, and awards provided by governmental agencies are recorded based upon the terms of the specific agreements, which generally provide that revenue is earned when the allowable costs specified in the applicable agreement have been incurred or a milestone has been met. Cash received from federal grants, contracts, and awards can be subject to audit by the grantor and, if the examination results in a disallowance of any expenditure, repayment could be required. A New Accounting Pronouncements Not Yet Adopted New Accounting Pronouncements Not Yet Adopted A On December 14, 2023, the Financial Accounting Standards Board issued Accounting Standards Update, No. 2023-09 “Improvements to Income Tax Disclosures.” (“ASU 2023-09”). ASU 2023-09 enhances the detail that a business is required to disclose within its income tax footnote, including, but not limited to, a breakout of the rate reconciliation into more specific categories, such as state and local income tax, and foreign taxes. Additionally, a business must break out specific jurisdictions that encompass greater than or equal to 5% of their state and local, and foreign jurisdictions. The Company will adopt ASU 2023-09 on January 1, 2025. The adoption of this Standard is not expected to have a significant impact on the Company’s financial statements. A The Company has reviewed all other recently issued, but not yet adopted, accounting standards, in order to determine their effects, if any, on its results of operations, financial position or cash flows. Based on that review, the Company believes that no other pronouncements will have a significant effect on its financial statements. X - DefinitionLiquidity And Capital Resources [Policy Text Block] + ReferencesNo definition available. + Details Name: SINT_LiquidityAndCapitalResourcesPolicyTextBlock Namespace Prefix: SINT- Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionReverse Stock Split [Policy Text Block] + ReferencesNo definition available. + Details Name: SINT_ReverseStockSplitPolicyTextBlock Namespace Prefix: SINT- Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for basis of accounting, or basis of presentation, used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS). + ReferencesNo definition available. + Details Name: us-gaap-BasisOfAccountingPolicyPolicyTextBlock Namespace Prefix: us-gaap- Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity’s financial reporting. Includes, but is not limited to, quantification of the expected or actual impact. + ReferencesNo definition available. + Details Name: us-gaap-NewAccountingPronouncementsPolicyPolicyTextBlock Namespace Prefix: us-gaap- Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap-OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap- Data Type: xbrl:stringItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for revenue from contract with customer. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-17Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-19Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-18Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-18Reference 5:

[illegible]

Name Accounting Standards Codification -Section 45-SubTopic 10-Section 45-Paragraph 15-Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15+ Details Name: us-gaap_PaymentsOfStockIssuanceCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Definition The cash inflow associated with the amount received from entity's first offering of stock to the public. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45-Paragraph 14-Subparagraph (a) -SubTopic 10-Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceInitialPublicOffering Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Definition The cash inflow from the additional capital contribution to the entity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45-Paragraph 14-Subparagraph (a) -SubTopic 10-Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Definition The cash inflow from the issuance of common stock, preferred stock, treasury stock, stock options, and other types of equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45-Paragraph 14-Subparagraph (a) -SubTopic 10-Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3 + Details Name: us-gaap_ProceedsFromIssuanceOrSaleOfEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash inflow from sale of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 45-Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481830/320-10-45-11Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-9Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45-Paragraph 12 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-12Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45-Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-11 + Details Name: us-gaap_ProceedsFromSaleOfAvailableForSaleSecuritiesDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-10-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe number of shares issued or sold by the subsidiary or equity method investee per stock transaction. + ReferencesNo definition available. + Details Name: us-gaap_SaleOfStockNumberOfSharesIssuedInTransaction Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionPer share amount received by subsidiary or equity investee for each share of common stock issued or sold in the stock transaction. + ReferencesNo definition available. + Details Name: us-gaap_SaleOfStockPricePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionDescription of the reverse stock split arrangement. Also provide the retroactive effect given by the reverse split that occurs after the balance sheet date but before the release of financial statements. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 4 -Subparagraph (SAB Topic 4.C) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-4 + Details Name: us-gaap_StockholdersEquityReverseStockSplit Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_ClassOfWarrantOrRightAxis=SINT_ClassEAndClassFWarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementOfClassOfStockAxis=SINT_CommonStockWarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementOfClassOfStockAxis=SINT_CommonStockAndPrefundedWarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementOfClassOfStockAxis=SINT_DerivativeLiabilitiesForCommonStockWarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementOfClassOfStockAxis=SINT_AgentWarrantOfferingMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: dei_LegalEntityAxis=SINT_MaximGroupLLCMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=SINT_TwoThousandAndTwentyOneEquityDistributionAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 36 R26.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Schedule of Basic and Diluted Loss Per Share (Details) - USD (\$) \$ / shares in Units, \$ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Mar. 31, 2024 Jun. 30, 2023 Mar. 31, 2023 Jun. 30, 2024 Jun. 30, 2023 Net loss per share ã€“ basic and diluted Æ Å Å Å Net loss, Basic Calculation Æ (2,204) Æ (886) Æ (2,455) Æ (293) Æ (3,090) Æ (2,748) Net loss, Effect of Dilutive Warrant Securities (312) Æ (964) Æ (3,283) Æ (4,557) Net loss, Diluted Calculation (2,516) Æ (3,419) Æ (6,373) Æ (7,305) Deemed dividend and accretion of a discount, Basic Calculation Æ (26) Æ (26) Deemed dividend and accretion of a discount, Effect of Dilutive Warrant Securities Æ Å Å Å Deemed dividend and accretion of a discount, Diluted Calculation Æ (26) Æ (26) Net loss attributable to common stockholders, Basic Calculation Æ (2,204) Æ (2,481) Æ (3,090) Æ (2,774) Net loss attributable to common stockholders, Effect of Dilutive Warrant Securities Æ Å Å Å (4,557) Net loss attributable to common stockholders, Diluted Calculation Æ Å Æ (3,445) Æ Å Æ (7,331) Number of shares used in per common share calculations: Effect of Dilutive Warrant Securities 66,656 Æ 1,832 Æ 108,993 Æ 531 Number of shares used in per common share calculations: Diluted Calculation 697,868 Æ 22,183 Æ 467,756 Æ 16,413 Net loss per common share: Net loss, Basic Calculation Æ Å Æ (120.63) Æ Å Æ (173.01) Net loss per common share: Net loss, Effect of Dilutive Warrant Securities Æ Å Æ (526.18) Æ Å Æ (8,589.28) Net loss per common share: Net loss, Diluted Calculation Æ Å Æ (154.13) Æ Å Æ (445.06) Net loss per common share: Deemed dividend and accretion of a discount, Basic Calculation Æ Å Æ (1.28) Æ Å Æ (1.64) Net loss per common share: Deemed dividend and accretion of a discount, Effect of Dilutive Warrant Securities Æ Å Å Å Net loss per common share: Deemed dividend and accretion of a discount, Diluted Calculation Æ Å Æ (1.17) Æ Å Æ (1.58) Net loss per common share: Net loss attributable to common stockholders, Basic Calculation Æ (3.49) Æ (121.91) Æ Å Æ (8.61) Æ (174.65) Net loss per common share: Net loss attributable to common stockholders, Effect of Dilutive Warrant Securities (4.69) Æ (526.18) Æ (30.12) Æ (8,589.28) Net loss per common share: Net loss attributable to common stockholders, Diluted Calculation Æ (3.61) Æ Å Æ (155.30) Æ Å Æ (13.62) Æ (446.64) X - DefinitionDeemed dividend and accretion of a discount, basic calculation. + ReferencesNo definition available. + Details Name: SINT_BasicDeemedDividendAndAccretionOfDiscountBasicCalculation Namespace Prefix: SINT_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionBasic net income loss per share. + ReferencesNo definition available. + Details Name: SINT_BasicNetIncomeLossPerShare Namespace Prefix: SINT_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionDeemed dividend and accretion of discount diluted calculation. + ReferencesNo definition available. + Details Name: SINT_DeemedDividendAndAccretionOfDiscountDilutedCalculation Namespace Prefix: SINT_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionDeemed dividend and accretion of discount effect of dilutive warrant securities. + ReferencesNo definition available. + Details Name: SINT_DeemedDividendAndAccretionOfDiscountEffectOfDilutiveWarrantSecurities Namespace Prefix: SINT_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionDeemed dividend and accretion of discounts effect of dilutive warrant securities. + ReferencesNo definition available. + Details Name: SINT_DeemedDividendAndAccretionOfDiscountsEffectOfDilutiveWarrantSecurities Namespace Prefix: SINT_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionDilutive deemed dividend and accretion of discount diluted calculation. + ReferencesNo definition available. + Details Name: SINT_DilutiveDeemedDividendAndAccretionOfDiscountDilutedCalculation Namespace Prefix: SINT_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionEarnings per share basic to common shareholders. + ReferencesNo

50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482907/825-10-50-28>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 11: [http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(b\)\(2\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1)Reference 13: <http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8>Reference 14: [http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 15: [http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 16: <http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4>Reference 17: <http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10>Reference 18: <http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7>Reference 19: [http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-04\(18\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1)Reference 20: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-07\(9\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1)Reference 21: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(1\)\(d\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3)Reference 22: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 23: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(ii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 24: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iii\)\(A\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 25: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iv\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 26: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 27: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 28: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(A\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 29: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(B\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 30: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iv\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 31: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 32: [http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B](http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B)Reference 33: <http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7>Reference 34: <http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 35: [http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A](http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A)Reference 36: [http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1B)Reference 37: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-04\(22\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1) + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent, and includes adjustments resulting from the assumption that dilutive convertible securities were converted, options or warrants were exercised, or that other shares were issued upon the satisfaction of certain conditions. + ReferencesNo definition available. + Details Name: us-gaap_NetIncomeLossAttributableToParentDiluted Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount, after deduction of tax, noncontrolling interests, dividends on preferred stock and participating securities; of income (loss) available to common shareholders. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph \(g\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 5 -Subparagraph \(SAB Topic 6.B\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-5](http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 5 -Subparagraph (SAB Topic 6.B) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-5)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 40 -Subparagraph \(b\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-40](http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 40 -Subparagraph (b)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-40) + Details Name: us-gaap_NetIncomeLossAvailableToCommonStockholdersDiluted Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe amount of preferred stock dividends that is an adjustment to net income apportioned to common stockholders. + ReferencesNo definition available. + Details Name: us-gaap_PreferredStockDividendsIncomeStatementImpact Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe sum of dilutive potential common shares or units used in the calculation of the diluted per share or per unit computation. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1) + Details Name: us-gaap_WeightedAverageNumberDilutedSharesOutstandingAdjustment Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16> + Details Name: us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10> + Details Name: us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration XML 37 R27.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basic and Diluted Net Income (Loss) per Common Share (Details Narrative) - shares shares in Thousands 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Net loss per share â€¢ basic and diluted. A Number of potentially dilutive securities 79 6 X - DefinitionSecurities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1) + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 38 R28.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Schedule of Components of Inventory (Details) - USD (\$) in Thousands Jun. 30, 2024 Dec. 31, 2023 Inventory Disclosure [Abstract] A Raw materials \$ 713 \$ 691 WIP 205 426 Finished goods 102 104 A Inventory net \$ 1,020 \$ 1,221 X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount before valuation and LIFO reserves of completed merchandise or goods expected to be sold within one year or operating cycle, if longer. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\(a\)\(1\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_InventoryFinishedGoods Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount before valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: [http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1](http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_InventoryRawMaterialsAndSupplies Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionGross amount of unprocessed materials to be used in manufacturing or production process and supplies that will be consumed. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionGross amount, as of the balance sheet date, of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_InventoryGross Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionInventories not expected to be converted to cash, sold or exchanged within the normal operating cycle. +

[illegible]

insurance premium \$ 26,000 \$ 40,000 \$ A Financial insurance premium \$ 117,000 \$ 239,000 \$ A Business Loan [Member] \$ A \$ A Short-Term Debt [Line Items] \$ A \$ A Outstanding balance \$ 350,000 \$ A \$ A Loan down payment \$ 35,000 \$ A \$ A Debt interest rate 3.75% \$ A \$ A Personal Loans [Member] \$ A \$ A Short-Term Debt [Line Items] \$ A \$ A Outstanding balance \$ A \$ A \$ 350,000 Debt instrument, payments terms \$ A \$ A The Company agreed to repay the outstanding balance of the Personal Loans in (i) 24 equal monthly installments beginning September 1, 2022 and each month thereafter until paid in full as one prior ownerâ€™s portion of the Personal Loans totaling \$157,000, and (ii) for the other ownerâ€™s portion of the Personal Loans totaling \$193,000 \$ Personal Loans [Member] | Related Party [Member] \$ A \$ A Short-Term Debt [Line Items] \$ A \$ A Due to related parties \$ 7,000 \$ 7,000 \$ X - DefinitionFinancial insurance premium. + ReferencesNo definition available. + Details Name: SINT_FinancedInsurancePremium Namespace Prefix: SINT_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionUp front insurance premium. + ReferencesNo definition available. + Details Name: SINT_UpFrontInsurancePremium Namespace Prefix: SINT_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionFace (par) amount of debt instrument at time of issuance. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(a\)14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a)14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1)Reference 3: <http://www.xbrl.org/2003/role/exampleRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69B>Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69C>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2> + Details Name: us-gaap_DebtInstrumentFaceAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionContractual interest rate for funds borrowed, under the debt agreement. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(22\)\(a\)\(3\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(b\)1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b)1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B) + Details Name: us-gaap_DebtInstrumentInterestRateStatedPercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionDescription of the payment terms of the debt instrument (for example, whether periodic payments include principal and frequency of payments) and discussion about any contingencies associated with the payment. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(22\)\(a\)\(3\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 470 -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477734/942-470-50-3](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 470 -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477734/942-470-50-3) + Details Name: us-gaap_DebtInstrumentPaymentTerms Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of liabilities classified as other. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-03\(15\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-03\(a\)\(15\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1)Reference 3: <http://www.xbrl.org/2003/role/exampleRef-Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-04\(12\)\(b\)\(2\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(12)(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-04\(12\)\(b\)\(3\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(12)(b)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1)Reference 6: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-04\(12\)\(b\)\(1\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(12)(b)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1)Reference 7: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-03\(a\)\(17\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1) + Details Name: us-gaap_OtherLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe cash outflow to settle a bank borrowing during the year. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15) + Details Name: us-gaap_RepaymentsOfBankDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_ShortTermDebtLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_TypeOfArrangementAxis=SINT_InsurancePremiumFinanceArrangementsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=SINT_BusinessLoanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=SINT_PersonalLoansMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=us-gaap_RelatedPartyMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 45 R35.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Equity (Details Narrative) - USD (\$) / shares in Units, \$ in Thousands 6 Months Ended Apr. 05, 2024 Mar. 26, 2024 Feb. 02, 2024 Oct. 12, 2023 Feb. 10, 2023 Feb. 10, 2023 Jun. 30, 2024 Jun. 30, 2023 Jul. 11, 2024 Dec. 31, 2023 Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Gross proceeds \$ A \$ A \$ A \$ A \$ A \$ 3,111 \$ 4,840 \$ A Public offering, units \$ A 80,000 \$ A 10,750 \$ A \$ A \$ A Common units to purchase shares of common stock \$ A 17,000 \$ A \$ A \$ A \$ A Common stock, par value \$ A \$ 0.01 \$ A \$ A \$ 0.01 \$ A \$ 0.01 Proceeds from issuance of warrants \$ A \$ A \$ A \$ A \$ A \$ 3,366 \$ 6,650 \$ A Sale of stock price \$ 4.20 \$ 9.40 50.00 \$ A \$ A \$ A \$ A Exercise price \$ A \$ 50.00 \$ A \$ A \$ A \$ A Warrants and rights outstanding, term \$ A 5 years \$ A \$ A \$ A \$ A Cash placement fee percentage \$ A 7.00% \$ A \$ A \$ A \$ A Reimbursement of expenses and legal fees \$ A \$ 100,000 \$ A \$ A \$ A \$ A Warrants exercise price \$ A \$ 55.00 \$ A \$ 1,120.00 \$ A \$ A \$ A Shares, sold 358,000 142,000 80,000 \$ A 10,750 \$ A \$ A \$ A 2021 Equity Distribution Agreement [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Gross proceeds \$ A \$ A \$ A \$ A \$ 1,000 \$ A \$ A Shares, sold \$ A \$ A \$ A \$ A 12,360 \$ A \$ A Public float threshold \$ A \$ A \$ A \$ 75,000 \$ A \$ A Maxim Group LLC [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Aggregate offering price \$ A \$ 15,000 \$ A \$ A \$ A Maxim Group LLC [Member] | Subsequent Event [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Amount available for sale \$ A \$ A \$ A \$ A \$ 3,100 \$ A Maxim Group LLC [Member] | 2021 Equity Distribution Agreement [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A \$ A Aggregate offering price \$ A \$ A \$ 15,000 \$ A \$ 15,000 \$ A \$ A Sale of stock, description of transaction \$ A \$ A (i) the sale of shares having an aggregate offering price of \$15.0 million, (ii) the termination by either Maxim or the Company upon the provision of fifteen (15) days written notice, or (iii) February 25, 2025. No other changes were made to the terms of the Distribution Agreement. Under the terms of the Distribution Agreement, Maxim will be entitled to a transaction fee at a fixed rate of 2.0% of the gross sales price of Shares sold under the 2021 Distribution Agreement. \$ A \$ A \$ A Distribution amount \$ A \$ 3,100 \$ A \$ A \$ A Common Stock Warrants [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Shares, sold \$ A \$ A \$ A \$ 430 \$ A \$ A Aggregate offering price \$ A \$ A \$ 12,000 \$ A \$ A \$ A Common Stock and Prefunded Warrants [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Gross proceeds from sale of stock \$ A \$ A \$ 5,400 \$ A \$ A \$ A Offering costs \$ A \$ 500 \$ A 4,800 \$ A \$ A Derivative Liabilities for Common Stock Warrants [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A \$ A Offering costs \$ A 500 \$ A 700 \$ A \$ A \$ A Proceeds allocated to derivative liabilities \$ A \$ A \$ A \$ 6,700 \$ A \$ A \$ A Agent Warrant Offering [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A \$ A Offering costs \$ A \$ 100 \$ A \$ 100 \$ A \$ A \$ A Maximum [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Warrants to purchase \$ A 3,200 \$ A \$ A \$ A \$ A Maximum [Member] | Maxim Group LLC [Member] | 2021 Equity Distribution Agreement [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Distribution amount \$ A \$ 3,100 \$ A \$ A \$ A Common Unit [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Sale of stock price \$ A \$ 50.00 \$ A \$ A \$ A \$ A Pre Funded Warrant Unit [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A \$ A Sale of stock price \$ A \$ 49.98 \$ A \$ A \$ A \$ A Class E and F Warrants [Member] | Nonconsolidated Investees, Other [Member] | Minimum [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Beneficial ownership percentage \$ A 4.99% \$ A \$ A \$ A \$ A Class E and F Warrants [Member] | Nonconsolidated Investees, Other [Member] | Maximum [Member] \$ A \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Beneficial ownership percentage \$ A 9.99% \$ A \$ A \$ A \$ A Class E Warrant [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Warrants and rights outstanding, term \$ A 5 years \$ A \$ A \$ A \$ A Class F Warrant [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Warrants and rights outstanding, term \$ A 18 months \$ A \$ A \$ A Pre Funded Warrant [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Exercise price \$ A \$ 0.0001 \$ A \$ A \$ A Pre-funded Warrants [Member] | Nonconsolidated Investees, Other [Member] | Minimum [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Beneficial ownership percentage \$ A 4.99% \$ A \$ A \$ A \$ A Pre-funded Warrants [Member] | Nonconsolidated Investees, Other [Member] | Maximum [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Beneficial ownership percentage \$ A 9.99% \$ A \$ A \$ A \$ A Class C and Class D Warrants [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Sale of stock price \$ A \$ A \$ 1,120.00 \$ A \$ A Shares, sold \$ A \$ A \$ A 0.4 \$ A \$ A Class D Warrant [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Warrants and rights outstanding, term \$ A 3 years \$ A \$ A \$ A Shares, sold \$ A 0.8 \$ A \$ A Class C Warrant [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Warrants and rights outstanding, term \$ A 5 years \$ A \$ A \$ A Warrant [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Number of shares issued \$ A 63,000 \$ A \$ A \$ A \$ A Warrants to purchase common stock \$ A 63,000 \$ A \$ A \$ A \$ A Proceeds from issuance of warrants \$ A \$ 4,000 \$ A \$ A \$ A \$ A Class E Warrants [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Warrants to purchase common stock \$ A 80,000 \$ A \$ A \$ A Class F Warrants [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Warrants to purchase common stock \$ A 80,000 \$ A \$ A \$ A 2024 April Registered Offering [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Number of shares issued 358,000 \$ A \$ A \$ A \$ A Public offering price \$ 4.20 \$ A \$ A \$ A \$ A Gross proceeds \$ 1,500 \$ A \$ A \$ A \$ A 2024 March Registered Offering [Member] \$ A \$ A \$ A \$ A \$ A Accumulated Other Comprehensive Income (Loss) [Line Items] \$ A \$ A \$ A \$ A \$ A Number of shares issued 142,000 \$ A \$ A \$ A \$ A Public offering price \$ 9.40 \$ A \$ A \$ A \$ A Gross proceeds \$ 1,300 \$ A \$ A \$ A \$ A X - DefinitionAvailable for sale securities amount. + ReferencesNo definition available. + Details Name: SINT_AvailableForSaleSecuritiesAmount Namespace Prefix: SINT_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionProceeds allocated to derivative liabilities. + ReferencesNo definition available. + Details Name: SINT_ProceedsAllocatedToDerivativeLiabilities Namespace Prefix: SINT_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionProceeds from issuance of common stock and prefunded warrants. + ReferencesNo definition available. + Details Name: SINT_ProceedsFromIssuanceOfCommonStockAndPrefundedWarrants Namespace Prefix: SINT_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPublic float threshold. + ReferencesNo definition available. + Details Name: SINT_PublicFloatThreshold Namespace Prefix: SINT_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPublic offering units. + ReferencesNo definition available. + Details Name: SINT_PublicOfferingUnits Namespace Prefix: SINT_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionReimbursement of expenses and legal fees + ReferencesNo definition available. + Details Name: SINT_ReimbursementOfExpensesAndLegalFees Namespace Prefix: SINT_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-4>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-5>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-17>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20](http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20](http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20](http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph \(d\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20](http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20) + Details Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionExercise per share or per unit of warrants or rights outstanding. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3> + Details Name: us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1 Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionNumber of securities into which the class of warrant or right may be converted. For example, but not limited to, 500,000 warrants may be converted into 1,000,000 shares. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3> + Details Name: us-gaap_ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of warrants or rights outstanding. + ReferencesNo definition available. + Details Name: us-gaap_ClassOfWarrantOrRightOutstanding Namespace Prefix: us-gaap_ Data Type:

xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1:

gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageExercisePrice Namespace Prefix: us-gaap_Data Type: dtr-
types:perShareItem Type Balance Type: na Period Type: instant X - DefinitionAmount by which current fair value of underlying stock exceeds exercise price of fully vested and expected to vest
options outstanding. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of
performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average price at which grantees could have acquired the underlying shares with respect to stock options of the plan that expired. + ReferencesReference 1: types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average per share amount at which grantees can acquire shares of common stock by exercise of options. + ReferencesReference 1:

ShareBasedPaymentAwardOptionsGrantsInPeriodGrossNameSpacePrefix: us-gaap_Data Type: xbrli:sharesItem Type Balance Type: as Period Type: duration X - DefinitionNumber of options outstanding, including both vested and non-vested options. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\)\(1\)\(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\)\(1\)\(ii\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber Namespace Prefix: us-gaap_Data Type: xbrli:sharesItem Type Balance Type: as Period Type: instant X - Details Name: srt_TypeOfIndividualAxis=SINT_NonExecutiveMember Namespace Prefix: Data Type: as Balance Type: Period Type: X - Details Name: us-gaap_AwardType=us-gaap_EmployeeStockOptionMember Namespace Prefix: Data Type: as Balance Type: Period Type: XML 49 R39.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Schedule of Operating Lease Future Minimum Payments (Details) - USD (\$) \$ in Thousands Jun. 30, 2024 Dec. 31, 2023 Leases A A 2024 \$ 415 A 2025 738 A 2026 668 A 2027 688 A 2028 709 A Thereafter 2,124 A Total future minimum lease payments 5,342 A Less amounts representing interests (1,419) A Present value of lease liability 3,923 A Current-portion of operating lease liability 494 \$ 512 Long-term portion operating lease liability \$ 3,429 \$ 3,687 X - ReferencesNo definition available. + Details Name: SINT_DisclosureLeasesAbstract Namespace Prefix: SINT_Data Type: xbrli:stringItem Type Balance Type: as Period Type: duration X - DefinitionLessee operating lease liability payments due after year four. + ReferencesNo definition available. + Details Name: SINT_LesseeOperatingLeaseLiabilityPaymentsDueAfterYearFour Namespace Prefix: SINT_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFour Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearThree Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearTwo Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year. + ReferencesReference 1: <http://www.xbrl.org/2003/role/commonPracticeRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1) + Details Name: us-gaap_OperatingLeaseLiability Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as current. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1) + Details Name: us-gaap_OperatingLeaseLiabilityCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1) + Details Name: us-gaap_OperatingLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant XML 50 R40.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Leases (Details Narrative) \$ in Thousands 6 Months Ended Aug. 19, 2021 ft² Jun. 30, 2024 USD (\$) ft² Jun. 30, 2023 USD (\$) Dec. 31, 2023 USD (\$) Collaborative Arrangement and Arrangement Other than Collaborative [Line Items] A A A Area of land | ft² A 30,764 A A Operating lease right-of-use assets | \$ A \$ 3,791 A \$ 4,094 Operating lease liability | \$ A 3,923 A A Non-cash operating lease expense | \$ A \$ 300 A 400 A Operating lease, weighted average discount rate, percent A 8.70% A A Industrial Lease Agreement [Member] A A A Collaborative Arrangement and Arrangement Other than Collaborative [Line Items] A A A Area of land | ft² 10,936 A A A Lease term extend the term of the SINTX Armor Lease is 122 months through October 2031. A A A Lease term 122 months A A A Industrial Lease Agreement [Member] | Technology Assessment and Transfer, Inc. (T&T) [Member] A A A Collaborative Arrangement and Arrangement Other than Collaborative [Line Items] A A A Area of land | ft² 15,840 13,560 A A Lease term extend A The leases have various expiration dates ranging from July 2024 through April 2025. A A X - DefinitionNon cash operating lease expense. + ReferencesNo definition available. + Details Name: SINT_NoncashOperatingLeaseExpense Namespace Prefix: SINT_Data

09#SLLRG;[M1,NJ,M25]ZFYR[K53:AVG]P#0=4M;EAA=V=>N78&C-I-YILV) MC6C-RNCJ<. OGSJ6=>NOCJ00.820->.W&X*G2506/8I?R?>.XCLTFSUBW:0A4; MA A*64%>[155X&K6M7],-=T(E@FAP1; [ZIHABZ,R YGZBJT]=KW%25A7VJ?>V<6H M04%<\$FO,M*8+1M3PUQYVKVQ1Y9Hh%698&;<["OZM24&U0<5V1?O!V=V#42 MRW:*==7D/51>2>E8W6RG1&126S2V(=O;-7).6<?/022?19%>0!D!-L?>D-F30(M42)<?ETWV)4PDA(=5*DEJ?>W@("M1%["JMNXPAXCZ5P91 #UYTKGC7J?H, MP@NP*F'DJ,JI-4A!QOV524A<["M(RM7V)?+7F8Y?M O+EmO2-J6=#9B7 MJ?P] GIV05D[INJ2I]D?MQ,P?7,7DQ5F;G90? MCLZVR\$K61* D P@* **J@?#*#ASJZ">669R<2=>M?> M&D G=F-4=4L3<2@1T1?Y@VJ8R<S<D1+?<Q?>P[.6KJG+MR:00.G)3(ER6X*!3 H2C.&C*Y14UE937M00 MCTKYJGFC02 MCALZYN*02S*6M;7&T,*0*Y)C90Q<NN\$3[!%IANBL8IIVH+>Z>X(S)J;FAJ5I;GA(T?>P/6J8Q,89M?3%<7.00?F@W@/M3(TK=>PF@CK1Q1) M9RV0=?>Y-?H?>KWO@.P3 \$39(7?,>O(^<4AHD@JZCVD+L[4,N'W.CI2C MZFMY+ G\$J&B5>G0>6:RX<=>GSNS)VX58-V2!(L2)35U0">;H7#A670WXL<XGO4.N@WY/&>K438 M@GGK8%K*%O<C+M#1124#H@!C!??ASGJ]<=>C9NH9YSF;[AT3"FYRZ"1 M60W<V<=<5-H0L&K*E,1[?V !?>UMIM40%*HA-2BD7H+M @<?>H:1H24;4 5 FY"R3NS*+ M!E\$S)ZYS=>E&IG<?>O>8BF3C8<M>AGJ\$5KV<+>PF\$K5K<3+V-M;G3 IG259+&I<("5F+SP+LQ) L<6*#<E @>M4:=C1B+W@,SR%[BHPM]>8.5<=>SG@>B<K=O>P25J,DA70.F.%A20J1>-B.E,M.99%O6B2Q0H<@G@B1+M3K@SP@>T<6Z, RMV K1&FB3PF62J*6H9J; M/XOW*5%#AAXCU"N.WX3M83<3;8G<?,"DTTFON@<OW4*5">L<T&94R2J] M&P.&3QPK"KP[ZAH<?>T1(H34M3)ASUSUH[JP.2G<C!AU+<F0&5%<IGT3 M!U0,FO25VHI=N#ATT'ONS843&T. 6E<+>4RC[51 CZLJ)=NAl,[RB M[UJCI]TE8JUK2XWAG\$S38. 15.4DERH+&,<5H5M*Y2&SJA9+TOSB7Z?<6% MX,7E?ZE+<E"WR6@6U+V1/FCLN4J\$#96Q<6QN*Q&5.C4R\$>&>7.LP6&7HWU* M!@<5&A#<X?>H@.G7D3(*P*V-1TB&K+NUUG2+<RA@JO 8*5.D,0#<@<JCI-[6-WF1A2I+P1. MOWD?J6P\$U1K!Y@S@S(*T*QX)2U0,YU0<A4Z[OH7T>?>XVTE+<E<?>Y(SB1U0P6JRM"62X -Al" M...FA@>I!83*>+!/%7PW""(3I,W\$@X.OA- \$1QE\$#TTI!)]\$(<@*)HT=>I\$ M*G%<M BF;9+>UTC2 7W(S-);SXJYW(A.&45(ENR3">*>EQ.<@C.[HJVK2Z+RCB[?],04<SD\$5YR MU,CTI+EVA<4 M]J]D7480>T? 6J&.<I&MTOF(VXRZ;H!&J7BFAE4V= 7 MB#0">3+>QEZ34<[<[JNB MDEZ71XN:10!<0&HVDH8INOOR%> 3ARX!U@P(QMQ;&6&G/(!)0 .9.&BT8,[#I ACU7ID'EZ.V9!19U!J!\$Y&)>M =>EJ%YXS@(<!)>5HH:B@<H!>JLD<J<O>?>4Z(EZ\$5S1!"#<#<M&K<?>V7P1YKTQC+N+B7JA!<O<V<V8 1/H=>?>7CV1+U?>P1] M4>ZJV5+<FW0+<ODLL% .50SP4.L<C3B*4-N8!+<#*?>A.G2)>#Y/494TJA MR375%FAJ MEHBH R*#;C@48#..19+!>1<3\$3I@Q;3Q C FK<D MD MM?FFDFKJ/2<4(KM*A#FM<L!<F3;H7 4ECNN+>..LSOB9?T[9HV1]9F1, MVPCA0>/>3ZB4*+<N/9J1"(!)NH(4!<OX>XZM-3F<+<@9U?ABUC?9GX&K= MP"(<GN<@<O.)O.] (P=H.HNU.*XK4L7=>#H.A.S8%5(OVGN).["JRTL<TGJPDG\$& M,@<2]<A!>(<@>S)OG\$E QJG 08B;B%>MCLGN[&E+<C&SUKJ]CR\$<P(5'EYD>26TX0+6F<?>I@>?>YNU->8YKY\$V1?>@R9,* M=V@>37I=<AFVH>;=U@P(H.<#9H4%UCYUR*5J?>M%<O&L@<@>(<@>T U M XZD,BB&Y. E+Y<YI<E+D+YASVJ]A<S;OOM247ZE0">!<8;M1..1.<H'DNE;5I+<U+4M&Z?>["JPY M=? P/+I@<O/<X@FF1MM-P\$N)NZP<7M,L:T#7/(:@<87<IX:SI9)'BE! %<2\$>[([A MI][NLI2>8*A.B6C,9%9Q?TULC@YANPC'.9S.<@#Z[C0F;V/Z%K.HA<[M&K.Y'UY;ZW#YPV1,)*Z-894- U3A?2Q,PNTX?<T2[AXHO9V]-VMS A6 MA DW*W8ASQJ. PI/ND5/R0I9F Q0=>==>WT>W&URUNN:UK2LGH79+<TM MD\$U8J.LC.XP?D;T[HSZNJQE0<3>A0!<I@<+<JFV1O<BR%>[C# [NH]JFH+7Y MV:SJE@1=<G\$>W 51>RY3J[H,17H>A2W?>J?>OB&R?<4K,0X5. M&(TOW2 LB<2A>N8%<K N#N7Y?>5=O7U[V<6 Y MBD&[<6&8&J]1SHOQ6QUP<+<4H- 0004PD7J(}<Q&F5'H#<C<?<IU JP Q"QBH8I?>O MU/P< TUGA&O4;#I[S] F&JGHYF-X EU0?9Y 14HN9J[A=UR]J?<3@<FQZ? M@9B&OYWCT<VKE0Q<199OQ&C,HHTJU?>ZYF\$UF.&#<(<C.G-6?<PVB781 MYXJ1?<E&P*(XM&?<61"MN">#GDSJ2#VG1&LQ<G>J. ^2.CV 8%GTP61.E=O MUJ-L257!#PKZ1(}<Q?> <90>[3.S.OI*0F5Y4<927/HIXI@<B+<WZ;>+J6VSP6 MLV)A.907-BHQ[<H4549R&Q&G;K&EL\$ZB#AJ @8N?>DQJ245Gm/!PSSN.E=1373D93NF1!VUBCS<DZO!>?>_GS8P'+<JN MQAZ,*>ZR>0>70RVT->56%*YKY>=>H'U+<OZGCB[NQ1J%P]T19C\$T[>R6.D MVAQ>>D'F&[<EJTR,EH4FENY>I<C'EVS[K!<A-I308?D3PXJN2D8M:LVK<4J MP2R1I,PIWFX?#@<@<BEG6Q<+<GVK'MT,806I"8R]J]<G&IUYV-DI6S.%=<A(MO)*<AMT*[KSIU*UP&2S1+U1E>C64VH/<.'PC13=4F8%<9N%MH,=8F(U) M0&T!D!<L'<W&X7[<V2Z[V?>], K50P N=>Y?>BBE6XBK&WZ7+<1>W-S&A!<M!(%<9T.CDGN5+<ZFS0(FI>FJVR?>#53M1L1QXH Y?WB(G 00>S!S?>2A]6J; MG@FBSQJ]#<#>?>P08%?>.OS@G@Y4#J[X7SD\$>=<A>F>SQ[<SLO&K?<G.M@<J'B MZG?>2ZCLIS0:9QK7<+>@<I2 ?>M*8M67B?>BO,][BZG754K<=<O.X9X-S);#6<7?>6)F4T/LI*V#+<@<A+<6 MJ1N%K\$=>QAN,7P1<W&3<UWU1;IRY,JY7GL9? LYXZ:BJAC2;ATJ@<TR>W@O M6?>7U7A'T.W4 :HDHWSP9N(R.<+<81W+<R&C4IAY+<T+<SM MW2M=O**,<4 UB]B\$P?>G&3?>2>O.H\$ [Y>=>AUZ?7SD?<J#<X. @<O@G#H7;R:M9P?<T">ZJ:RMPKJ]A2;FTR:9GVOO*6MSM5WY MKI&G.W. ^N ^3.<+5&?>I=>N-XJ(CSM4Y7YTX<#<@<JM@<P&X.M;F)1.5\$1 MQQ>@?<I8:0M!JOT*PY)+ (<F,4I(X<..9M)<L?>[1=J1]-JLYLJKB"dy\$YVY MNCZ-<

[illegible]

M[4]"5"9^*02]N#U>F-RTIWW<|>L!/[H#WZ] M;HR!;IZ< _U02P,\$% @ #H0-64*70?M @ HP8 ID !X;[JW;W]K M&ULG55=>],P%WOK[Q*P*!+&2=NUH^V#"-= F MJFV >2;F;..8P?;61F GFLG1-R1WV^!>L!+FTL[R#R!%&?21**P9E%]ZN<->CV5 MM15R8CMGZCF^EA/! MV#2YPSB 56VL^ELP*2BY;[L5!L,XI,Q] (Q)=& QJUT4ABOF675J58,T"Z; MV%=>K7HTB>?290U[V75\$!>KY.\$!7&7ASSY8"=S!M:[G4+86KEN"(8A2(!! MC9Y^,!!91@QXJ]6-/O3;M^"9+^>C?Y27[76E;N4M]JW^D14W0;]TDC>+!> MR?4JD;?;PMY; (>B)3J/8=VCG<G<92HU[XJ]&E=V=TYT26;[G\$S6;Z Z4W M%MO%ZS:64ACEH!> 380;Z-8G-P*MKZ&ELM34?C%07P2ZU7^F!;[>W]J! M @-02P,\$% @ #H0-6;[HM-Q*SP M20! ID !X;[JW;W]K&ULQ=U!>S=WN7L MQ=>Y!P*Y!>[!>IX&8H&SUG<+> & M^?X*TBHA>[> & X;A6R55D1RT.6S<?>2 ID 7A2+/(DGT?S MZ4W6T[F2F,7!> S^X^H!+ [[F^W+31Q04P4RJL\$K JDRSFTJ]GRMG+?T Z M^%167U\$[CQF23?>53J]G3VB] MU.3^!D! K^;ZW^Y*71Y;].N->6NCBUPO2EP6RIFTVIFV,^>W^X^WY;0,F) M]M%SGZ**OG7UT;RLOW:T15M+K JP^CFKIC(U,J,H9E+OUE>?7* S. C.?1 _k4#6?B=)D7V M(,+T<9X^L-X7HK/XW&VG)?! %%%XV30=ITDA CE(RCB=%L*)SRNHMQ/XF?Q M65<0 _S13+>OXD(43W\$N%TSGXK=Y6A;OY9?< 24+OMY5 _QH12K4*7D8KQ! MKK-N>O>;Y>S]J73X50YY-DTE ^>?J! U5+>0FZZU^W7?E=O^W9;07,Y/1!>* M&EYJ.UJ^OWN^>? * X _ST.F6[07?71?7FS+>J\$;S!Y;6VDM 733GHG/Y M9G!>+Y7+VMXV-LK[<-6UYH[6WGV\$>+>]9V[RK1X&M&H;][<?<2F+>=JL M;OVUX081ZZYTWPB^J]X=J]UQ2M^* MLNX1_=[Y<P? C5]!T[K]Q?>5>S\$X M^>L> K7&1T2LM,V-K6NWNFOL[VZVWAN>?>+1,K@># MW;=(BG!)D4ST6T+J]M:8IAF+>W-Z ZQ(0+).Q]NE,MH M2?XU;[O]Q(4!>XO3;Q4&Q 8D1#81F(ZB1DD-BOQD0L\$&K-;)\$1B#HFY;.)1 M\$F\$B 8F%]916&T@Z;L!>TV 2(OBY9D4AOYC+>712+>51^%Y.D\$;?2IHJC]M^:H96L531P82&[2OJR]>LER.PV1?ZYUT]COSLFI5OZLTL4_R9^W;D(QQHG MDVJD+84/H+>W69QJ.Q29HGXS+!> &43^2V4 EF=5\$Q\$+Y76;GYS?4Y6L M.ABO: C^WVZZ9Q401?7W3[QX89?Q7]9H^WRP<C>;]Y. \$A&6AR,K4?Y5?> A]R/93NAXXHV+&S&A=EDLM#H.BP2>JVF[R1K MEF\$HEF\$277^69V9QIT0YGEUZY** M%-[F] +>M+>A&SYM&5LUYU[?>SWSA&G]D3?3Z3=XYEHFU4FC*~>OGU?D M#M)J?U6ZS1-81F%CR^?%HM(L, _TIER)N[3286-JTW]OU+V9G5@550[!T]M M\$E.>2,KL^KT:5J4F 6N!^;5OKG3K<_WYR[R]VAMIT?Y, %<[BSK>E?N[/KM4^G4]D1XJ9[V]OM MBNM, [J]OU+>F1/2&@Y?>VU&C; <>UJ]VWU[JE6W-2LW<+>X2MB0>W2M@S9Y9^M*3J46^>Y\$R1,1+M]L@]YQ _%4=5D>[?YD]M67@PQ HG6F_ E3Z+>JXLGUJ?KGU]6J?Z79^DSRO?IW+>J5GU7K+ZK%MML M;UG39+U7[!T]VY^!>JFM36J]IDOFU72[?>S\$G<+>Y+!4ROAYO?K8->#E?>99T31 _MKR5;^!T\$LO+&J MB6DDI.8W06]#\$C\$J^!>L!>L55VEV WHGC?7R^!>[L;D:VPX5N;J]J MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&HGI<8> MV)M^\$3!\$2,PFL1&). W^*ZVFNHANBKWUJFQ[>9@)0]G;W^W!T.M(242P6,9W\$>M^!>[DIA) M8A;J20V(CI^GN!^>?2];ID9A/8L%Q6R,DZXP,Z^Q^>775ZS;]F?C7TWK;&7C/W MBNH^;S9.DDQ6JF13[?>W33VH)]#8@,97\$+>32Z\$WK0N#%62MTHG1V12&Z^;BFH;JNFH9FT8A7B- 7N8AFB-J19 MJ&90M+V14%&Z1?> >9)T.JKFHYJ<CVH!JH6H%E%;/904Z]5UD2[.WY4Y.^>[3..IU5> M739+1IG *1;RX#V9E K6C?>?>ATY^~^5*?A?>J-1S4 M?];\$ZUS.OT)=E:S^~#2D=O?D0L^>3D0U%=4T5-1\$4U[>J9J&AFHU[!U1S M4,U^0= 57%>0+4\$U\$M8C2ZF&D-36<_>#J5!-134-U714,U1M MB&HJFJFH9J!>?<4<5-1\$4,U^J4^5 M1+>T^>NBR51Q5VE?3[F2C;_HMH MU514TU!-1\$5#;.34&BB+JH-4\$U-0W5=>60\$A&V(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> _=IQ]SMIQZ<_?>J^>P/D800,044YU-0W5=>0\$O4&E(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&HGI<8> MV)M^\$3!\$2,PFL1&). W^*ZVFNHANBKWUJFQ[>9@)0]G;W^W!T.M(242P6,9W\$>M^!>[DIA) M8A;J20V(CI^GN!^>?2];ID9A/8L%Q6R,DZXP,Z^Q^>775ZS;]F?C7TWK;&7C/W MBNH^;S9.DDQ6JF13[?>W33VH)]#8@,97\$+>32Z\$WK0N#%62MTHG1V12&Z^;BFH;JNFH9FT8A7B- 7N8AFB-J19 MJ&90M+V14%&Z1?> >9)T.JKFHYJ<CVH!JH6H%E%;/904Z]5UD2[.WY4Y.^>[3..IU5> M739+1IG *1;RX#V9E K6C?>?>ATY^~^5*?A?>J-1S4 M?];\$ZUS.OT)=E:S^~#2D=O?D0L^>3D0U%=4T5-1\$4U[>J9J&AFHU[!U1S M4,U^0= 57%>0+4\$U\$M8C2ZF&D-36<_>#J5!-134-U714,U1M MB&HJFJFH9J!>?<4<5-1\$4,U^J4^5 M1+>T^>NBR51Q5VE?3[F2C;_HMH MU514TU!-1\$5#;.34&BB+JH-4\$U-0W5=>60\$A&V(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> _=IQ]SMIQZ<_?>J^>P/D800,044YU-0W5=>0\$O4&E(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&HGI<8> MV)M^\$3!\$2,PFL1&). W^*ZVFNHANBKWUJFQ[>9@)0]G;W^W!T.M(242P6,9W\$>M^!>[DIA) M8A;J20V(CI^GN!^>?2];ID9A/8L%Q6R,DZXP,Z^Q^>775ZS;]F?C7TWK;&7C/W MBNH^;S9.DDQ6JF13[?>W33VH)]#8@,97\$+>32Z\$WK0N#%62MTHG1V12&Z^;BFH;JNFH9FT8A7B- 7N8AFB-J19 MJ&90M+V14%&Z1?> >9)T.JKFHYJ<CVH!JH6H%E%;/904Z]5UD2[.WY4Y.^>[3..IU5> M739+1IG *1;RX#V9E K6C?>?>ATY^~^5*?A?>J-1S4 M?];\$ZUS.OT)=E:S^~#2D=O?D0L^>3D0U%=4T5-1\$4U[>J9J&AFHU[!U1S M4,U^0= 57%>0+4\$U\$M8C2ZF&D-36<_>#J5!-134-U714,U1M MB&HJFJFH9J!>?<4<5-1\$4,U^J4^5 M1+>T^>NBR51Q5VE?3[F2C;_HMH MU514TU!-1\$5#;.34&BB+JH-4\$U-0W5=>60\$A&V(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> _=IQ]SMIQZ<_?>J^>P/D800,044YU-0W5=>0\$O4&E(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&HGI<8> MV)M^\$3!\$2,PFL1&). W^*ZVFNHANBKWUJFQ[>9@)0]G;W^W!T.M(242P6,9W\$>M^!>[DIA) M8A;J20V(CI^GN!^>?2];ID9A/8L%Q6R,DZXP,Z^Q^>775ZS;]F?C7TWK;&7C/W MBNH^;S9.DDQ6JF13[?>W33VH)]#8@,97\$+>32Z\$WK0N#%62MTHG1V12&Z^;BFH;JNFH9FT8A7B- 7N8AFB-J19 MJ&90M+V14%&Z1?> >9)T.JKFHYJ<CVH!JH6H%E%;/904Z]5UD2[.WY4Y.^>[3..IU5> M739+1IG *1;RX#V9E K6C?>?>ATY^~^5*?A?>J-1S4 M?];\$ZUS.OT)=E:S^~#2D=O?D0L^>3D0U%=4T5-1\$4U[>J9J&AFHU[!U1S M4,U^0= 57%>0+4\$U\$M8C2ZF&D-36<_>#J5!-134-U714,U1M MB&HJFJFH9J!>?<4<5-1\$4,U^J4^5 M1+>T^>NBR51Q5VE?3[F2C;_HMH MU514TU!-1\$5#;.34&BB+JH-4\$U-0W5=>60\$A&V(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> _=IQ]SMIQZ<_?>J^>P/D800,044YU-0W5=>0\$O4&E(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&HGI<8> MV)M^\$3!\$2,PFL1&). W^*ZVFNHANBKWUJFQ[>9@)0]G;W^W!T.M(242P6,9W\$>M^!>[DIA) M8A;J20V(CI^GN!^>?2];ID9A/8L%Q6R,DZXP,Z^Q^>775ZS;]F?C7TWK;&7C/W MBNH^;S9.DDQ6JF13[?>W33VH)]#8@,97\$+>32Z\$WK0N#%62MTHG1V12&Z^;BFH;JNFH9FT8A7B- 7N8AFB-J19 MJ&90M+V14%&Z1?> >9)T.JKFHYJ<CVH!JH6H%E%;/904Z]5UD2[.WY4Y.^>[3..IU5> M739+1IG *1;RX#V9E K6C?>?>ATY^~^5*?A?>J-1S4 M?];\$ZUS.OT)=E:S^~#2D=O?D0L^>3D0U%=4T5-1\$4U[>J9J&AFHU[!U1S M4,U^0= 57%>0+4\$U\$M8C2ZF&D-36<_>#J5!-134-U714,U1M MB&HJFJFH9J!>?<4<5-1\$4,U^J4^5 M1+>T^>NBR51Q5VE?3[F2C;_HMH MU514TU!-1\$5#;.34&BB+JH-4\$U-0W5=>60\$A&V(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> _=IQ]SMIQZ<_?>J^>P/D800,044YU-0W5=>0\$O4&E(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&HGI<8> MV)M^\$3!\$2,PFL1&). W^*ZVFNHANBKWUJFQ[>9@)0]G;W^W!T.M(242P6,9W\$>M^!>[DIA) M8A;J20V(CI^GN!^>?2];ID9A/8L%Q6R,DZXP,Z^Q^>775ZS;]F?C7TWK;&7C/W MBNH^;S9.DDQ6JF13[?>W33VH)]#8@,97\$+>32Z\$WK0N#%62MTHG1V12&Z^;BFH;JNFH9FT8A7B- 7N8AFB-J19 MJ&90M+V14%&Z1?> >9)T.JKFHYJ<CVH!JH6H%E%;/904Z]5UD2[.WY4Y.^>[3..IU5> M739+1IG *1;RX#V9E K6C?>?>ATY^~^5*?A?>J-1S4 M?];\$ZUS.OT)=E:S^~#2D=O?D0L^>3D0U%=4T5-1\$4U[>J9J&AFHU[!U1S M4,U^0= 57%>0+4\$U\$M8C2ZF&D-36<_>#J5!-134-U714,U1M MB&HJFJFH9J!>?<4<5-1\$4,U^J4^5 M1+>T^>NBR51Q5VE?3[F2C;_HMH MU514TU!-1\$5#;.34&BB+JH-4\$U-0W5=>60\$A&V(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> _=IQ]SMIQZ<_?>J^>P/D800,044YU-0W5=>0\$O4&E(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&HGI<8> MV)M^\$3!\$2,PFL1&). W^*ZVFNHANBKWUJFQ[>9@)0]G;W^W!T.M(242P6,9W\$>M^!>[DIA) M8A;J20V(CI^GN!^>?2];ID9A/8L%Q6R,DZXP,Z^Q^>775ZS;]F?C7TWK;&7C/W MBNH^;S9.DDQ6JF13[?>W33VH)]#8@,97\$+>32Z\$WK0N#%62MTHG1V12&Z^;BFH;JNFH9FT8A7B- 7N8AFB-J19 MJ&90M+V14%&Z1?> >9)T.JKFHYJ<CVH!JH6H%E%;/904Z]5UD2[.WY4Y.^>[3..IU5> M739+1IG *1;RX#V9E K6C?>?>ATY^~^5*?A?>J-1S4 M?];\$ZUS.OT)=E:S^~#2D=O?D0L^>3D0U%=4T5-1\$4U[>J9J&AFHU[!U1S M4,U^0= 57%>0+4\$U\$M8C2ZF&D-36<_>#J5!-134-U714,U1M MB&HJFJFH9J!>?<4<5-1\$4,U^J4^5 M1+>T^>NBR51Q5VE?3[F2C;_HMH MU514TU!-1\$5#;.34&BB+JH-4\$U-0W5=>60\$A&V(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> _=IQ]SMIQZ<_?>J^>P/D800,044YU-0W5=>0\$O4&E(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&HGI<8> MV)M^\$3!\$2,PFL1&). W^*ZVFNHANBKWUJFQ[>9@)0]G;W^W!T.M(242P6,9W\$>M^!>[DIA) M8A;J20V(CI^GN!^>?2];ID9A/8L%Q6R,DZXP,Z^Q^>775ZS;]F?C7TWK;&7C/W MBNH^;S9.DDQ6JF13[?>W33VH)]#8@,97\$+>32Z\$WK0N#%62MTHG1V12&Z^;BFH;JNFH9FT8A7B- 7N8AFB-J19 MJ&90M+V14%&Z1?> >9)T.JKFHYJ<CVH!JH6H%E%;/904Z]5UD2[.WY4Y.^>[3..IU5> M739+1IG *1;RX#V9E K6C?>?>ATY^~^5*?A?>J-1S4 M?];\$ZUS.OT)=E:S^~#2D=O?D0L^>3D0U%=4T5-1\$4U[>J9J&AFHU[!U1S M4,U^0= 57%>0+4\$U\$M8C2ZF&D-36<_>#J5!-134-U714,U1M MB&HJFJFH9J!>?<4<5-1\$4,U^J4^5 M1+>T^>NBR51Q5VE?3[F2C;_HMH MU514TU!-1\$5#;.34&BB+JH-4\$U-0W5=>60\$A&V(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> _=IQ]SMIQZ<_?>J^>P/D800,044YU-0W5=>0\$O4&E(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&HGI<8> MV)M^\$3!\$2,PFL1&). W^*ZVFNHANBKWUJFQ[>9@)0]G;W^W!T.M(242P6,9W\$>M^!>[DIA) M8A;J20V(CI^GN!^>?2];ID9A/8L%Q6R,DZXP,Z^Q^>775ZS;]F?C7TWK;&7C/W MBNH^;S9.DDQ6JF13[?>W33VH)]#8@,97\$+>32Z\$WK0N#%62MTHG1V12&Z^;BFH;JNFH9FT8A7B- 7N8AFB-J19 MJ&90M+V14%&Z1?> >9)T.JKFHYJ<CVH!JH6H%E%;/904Z]5UD2[.WY4Y.^>[3..IU5> M739+1IG *1;RX#V9E K6C?>?>ATY^~^5*?A?>J-1S4 M?];\$ZUS.OT)=E:S^~#2D=O?D0L^>3D0U%=4T5-1\$4U[>J9J&AFHU[!U1S M4,U^0= 57%>0+4\$U\$M8C2ZF&D-36<_>#J5!-134-U714,U1M MB&HJFJFH9J!>?<4<5-1\$4,U^J4^5 M1+>T^>NBR51Q5VE?3[F2C;_HMH MU514TU!-1\$5#;.34&BB+JH-4\$U-0W5=>60\$A&V(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> _=IQ]SMIQZ<_?>J^>P/D800,044YU-0W5=>0\$O4&E(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&HGI<8> MV)M^\$3!\$2,PFL1&). W^*ZVFNHANBKWUJFQ[>9@)0]G;W^W!T.M(242P6,9W\$>M^!>[DIA) M8A;J20V(CI^GN!^>?2];ID9A/8L%Q6R,DZXP,Z^Q^>775ZS;]F?C7TWK;&7C/W MBNH^;S9.DDQ6JF13[?>W33VH)]#8@,97\$+>32Z\$WK0N#%62MTHG1V12&Z^;BFH;JNFH9FT8A7B- 7N8AFB-J19 MJ&90M+V14%&Z1?> >9)T.JKFHYJ<CVH!JH6H%E%;/904Z]5UD2[.WY4Y.^>[3..IU5> M739+1IG *1;RX#V9E K6C?>?>ATY^~^5*?A?>J-1S4 M?];\$ZUS.OT)=E:S^~#2D=O?D0L^>3D0U%=4T5-1\$4U[>J9J&AFHU[!U1S M4,U^0= 57%>0+4\$U\$M8C2ZF&D-36<_>#J5!-134-U714,U1M MB&HJFJFH9J!>?<4<5-1\$4,U^J4^5 M1+>T^>NBR51Q5VE?3[F2C;_HMH MU514TU!-1\$5#;.34&BB+JH-4\$U-0W5=>60\$A&V(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> _=IQ]SMIQZ<_?>J^>P/D800,044YU-0W5=>0\$O4&E(B;J6.AF MH]H(IU4?>8W2CUDOW[JCO4 M.W.]?>J] U1344U^~1-W5#>60;H]J;A:V1NMN^J?R8;KV^W40347U3Q4U\$M M+40U2!)*?> MRW+>4L RLK20UW!#0;.>M^?3\$J\$SVZDU0<#9 U V;^D(1M^%Q?7^J-Y>M<#; M+M^WQ5U8AQ0?>2K\$S9?>QVD99HTQLA6[=0826(8#E\$-E3),QG<0,>A\$N2\$F\$E\$B M%HG9)38B^W; >7!+>S2,PGL6?-7>X\$Z[?>M^?H _Q?>Z25PK<_U<E.E8MBE!> 10^K MUBC^>3Q>5J3,N)K<FBO>Z,UROQ/0?75N34X?>+>3U;0, %Y9ITIB&

```

Commission, Data and content created by government employees within the scope of their employment are not subject to domestic copyright protection. 17 U.S.C. 105. var Show=
{}; Show.LastAR=null, Show.showAR=function(a, r, w){ if(Show.LastAR)Show.hideAR: var e=a; while(e&e.nodeNamed!= 'TABLE'){ e=e.nextSibling; if(!e) e.nodeNamed='TABLE'} (var ref=
((window)?w.document:document).getElementById(r)); if(ref){ e=ref.cloneNode(1); e.removeAttribute('id'); a.parentNode.appendChild(e); }
if(!e.style.display='block'; Show.LastAR=e); Show.hideAR=function() { Show.LastAR.style.display='none' }; Show.toggleNext=function(a){ var
e=a; while(e.nodeNamed!= 'DIV') e=e.nextSibling; if(!e.style) { e.style.display=''; } else { var d=p, d.p=''; if(e.style.display='none') { d='block'; p=''; } else { d='none'; p='+' }
e.style.display=d; if(a.textContent){ a.textContent=p+a.textContent.substring(1); } else { a.textContent=p+a.innerHTML.substring(1); } } }
XML 54 report.css IDEA: XBRL DOCUMENT /* Updated 2009-
11-04 */ /* v2.0.2.0 */ /* DeRef Styles */ report table.authRefData { background-color: #def; border: 2px solid #2F4497; font-size: 1em; position: absolute; } report table.authRefData a {
display: block; font-weight: bold; } report table.authRefData p { margin-top: 0px; } report table.authRefData .hide { background-color: #2F4497; padding: 1px 3px 0px 0px; text-align: right; }
report table.authRefData .hide a:hover { background-color: #2F4497; } report table.authRefData .body { height: 150px; overflow: auto; width: 400px; } report table.authRefData table { font-
size: 1em; } /* Report Styles */ .pl a .pl a:visited { color: black; text-decoration: none; } /* table */ report { background-color: white; border: 2px solid #acf; clear: both; color: black; font-
normal 8pt Helvetica, Arial, sans-serif; margin-bottom: 2em; } report hr { border: 1px solid #acf; } /* Top labels */ report th { background-color: #acf; color: black; font-weight: bold; text-align:
center; } report th void { background-color: transparent; color: #000000; font: bold 10pt Helvetica, Arial, sans-serif; text-align: left; } report .pl { text-align: left; vertical-align: top; white-space:
normal; width: 200px; } report .pl a { cursor: pointer; display: block; width: 200px; overflow: hidden; } report td, pl div a { width: 200px; }
report td, pl a:hover { background-color: #ffc; } /* Header rows... */ report tr, tr th { background-color: #acf; color: black; font-weight: bold; } /* Calendars... */ report tr { background-color:
#f0f0f0; } /* Even rows... */ report tr, report tr td { background-color: #def; } report tr td { border-bottom: 1px solid black; } /* Odd rows... */ report tr, report tr td { background-color:
white; } report tr td { border-bottom: 1px solid black; } report tr td { border-bottom: 0px solid black; } /* styles for footnote marker */ report .fn { white-space:
nowrap; } /* styles for numeric types */ report .num, report .num { padding-left: 2em; } report .num { padding-left: 2em; } report .num { padding: 0px 4em 0px 2em; }
/* styles for text types */ report .text { text-align: left; white-space: normal; } report .text .big { margin-bottom: 1em; width: 17em; } report .text .more { display: none; } report .text .note {
font-style: italic; font-weight: bold; } report .text .small { width: 10em; } report sup { font-style: italic; } report .outerFootnotes { font-size: 1em; }
XML 56 FilteringSummary.xml IDEA: XBRL
DOCUMENT 3.24.2.u1.html 170 278 1 false 56 0 false 5 false false R1.htm 00000001 - Document - Cover Sheet http://sintx.com/role/Cover Cover Cover 1 false false R2.htm 00000002 -
Statement - Condensed Consolidated Balance Sheets (Unaudited) Sheet http://sintx.com/role/BalanceSheets Condensed Consolidated Balance Sheets (Unaudited) Statements 2 false false
R3.htm 00000003 - Statement - Condensed Consolidated Balance Sheets (Unaudited) (Parenthetical) Sheet http://sintx.com/role/BalanceSheets Parenthetical Condensed Consolidated Balance
Sheets (Unaudited) (Parenthetical) Statements 3 false false R4.htm 00000004 - Statement - Condensed Consolidated Statements of Operations (Unaudited) Sheet
http://sintx.com/role/StatementsOfOperations Condensed Consolidated Statements of Operations (Unaudited) Statements 4 false false R5.htm 00000005 - Statement - Condensed Consolidated
Statements of Stockholders' Equity (Unaudited) Sheet http://sintx.com/role/StatementsOfStockholdersEquity Condensed Consolidated Statements of Stockholders' Equity (Unaudited)
Statements 5 false false R6.htm 00000006 - Statement - Condensed Consolidated Statements of Cash Flows (Unaudited) Sheet http://sintx.com/role/StatementsOfCashFlows Condensed
Consolidated Statements of Cash Flows (Unaudited) Statements 6 false false R7.htm 00000007 - Disclosure - Organization and Summary of Significant Accounting Policies Sheet
http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPolicies Organization and Summary of Significant Accounting Policies Notes 7 false false R8.htm 00000008 - Disclosure -
Basic and Diluted Net Income (Loss) per Common Share Sheet http://sintx.com/role/BasicAndDilutedNetIncomeLossPerCommonShare Basic and Diluted Net Income (Loss) per Common Share
Notes 8 false false R9.htm 00000009 - Disclosure - Inventories Sheet http://sintx.com/role/Inventories Inventories Notes 9 false false R10.htm 00000010 - Disclosure - Fair Value Measurements
Sheet http://sintx.com/role/FairValueMeasurements Fair Value Measurements Notes 10 false false R11.htm 00000011 - Disclosure - Accrued Liabilities Sheet

```

<http://sintx.com/role/AccruedLiabilities> Accrued Liabilities Notes 11 false false R12.htm 00000012 - Disclosure - Debt Sheet <http://sintx.com/role/Debt> Debt Notes 12 false false R13.htm 00000013 - Disclosure - Equity Sheet <http://sintx.com/role/Equity> Equity Notes 13 false false R14.htm 00000014 - Disclosure - Stock-Based Compensation Sheet <http://sintx.com/role/Stock-basedCompensation> Stock-Based Compensation Notes 14 false false R15.htm 00000015 - Disclosure - Commitments and Contingencies Sheet <http://sintx.com/role/CommitmentsAndContingencies> Commitments and Contingencies Notes 15 false false R16.htm 00000016 - Disclosure - Leases Sheet <http://sintx.com/role/Leases> Leases Notes 16 false false R17.htm 00000017 - Disclosure - Subsequent Events Sheet <http://sintx.com/role/SubsequentEvents> Subsequent Events Notes 17 false false R18.htm 00000018 - Disclosure - Organization and Summary of Significant Accounting Policies (Policies) Sheet <http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPolicies> Organization and Summary of Significant Accounting Policies (Policies) Policies <http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPolicies> 18 false false R19.htm 00000019 - Disclosure - Basic and Diluted Net Income (Loss) per Common Share (Tables) Sheet <http://sintx.com/role/BasicAndDilutedNetIncomeLossPerCommonShare> Basic and Diluted Net Income (Loss) per Common Share (Tables) Tables <http://sintx.com/role/BasicAndDilutedNetIncomeLossPerCommonShare> 19 false false R20.htm 00000020 - Disclosure - Inventories (Tables) Sheet <http://sintx.com/role/Inventories> Inventories (Tables) Tables <http://sintx.com/role/Inventories> 20 false false R21.htm 00000021 - Disclosure - Fair Value Measurements (Tables) Sheet <http://sintx.com/role/FairValueMeasurements> Fair Value Measurements (Tables) Tables <http://sintx.com/role/FairValueMeasurements> 21 false false R22.htm 00000022 - Disclosure - Accrued Liabilities (Tables) Sheet <http://sintx.com/role/AccruedLiabilities> Accrued Liabilities (Tables) Tables <http://sintx.com/role/AccruedLiabilities> 22 false false R23.htm 00000023 - Disclosure - Stock-Based Compensation (Tables) Sheet <http://sintx.com/role/Stock-basedCompensation> Stock-based Compensation (Tables) Tables <http://sintx.com/role/Stock-basedCompensation> 23 false false R24.htm 00000024 - Disclosure - Leases (Tables) Sheet <http://sintx.com/role/Leases> Leases (Tables) Tables <http://sintx.com/role/Leases> 24 false false R25.htm 00000025 - Disclosure - Organization and Summary of Significant Accounting Policies (Details Narrative) Sheet <http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative> Organization and Summary of Significant Accounting Policies (Details Narrative) Details <http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative> 25 false false R26.htm 00000026 - Disclosure - Schedule of Basic and Diluted Loss Per Share (Details) Sheet <http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails> Schedule of Basic and Diluted Loss Per Share (Details) Details <http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails> 26 false false R27.htm 00000027 - Disclosure - Basic and Diluted Net Income (Loss) per Common Share (Details Narrative) Sheet <http://sintx.com/role/BasicAndDilutedNetIncomeLossPerCommonShareDetailsNarrative> Basic and Diluted Net Income (Loss) per Common Share (Details Narrative) Details <http://sintx.com/role/BasicAndDilutedNetIncomeLossPerCommonShareDetailsNarrative> 27 false false R28.htm 00000028 - Disclosure - Schedule of Components of Inventory (Details) Sheet <http://sintx.com/role/ScheduleOfComponentsOfInventoryDetails> Schedule of Components of Inventory (Details) Details <http://sintx.com/role/ScheduleOfComponentsOfInventoryDetails> 28 false false R29.htm 00000029 - Disclosure - Inventories (Details Narrative) Sheet <http://sintx.com/role/InventoriesDetailsNarrative> Inventories (Details Narrative) Details <http://sintx.com/role/InventoriesDetailsNarrative> 29 false false R30.htm 00000030 - Disclosure - Schedule of Financial Liabilities Measured at Fair Value on Recurring Basis by Level (Details) Sheet <http://sintx.com/role/ScheduleOfFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails> Schedule of Financial Liabilities Measured at Fair Value on Recurring Basis by Level (Details) Details <http://sintx.com/role/ScheduleOfFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails> 30 false false R31.htm 00000031 - Disclosure - Schedule of Fair Value Measurement Hierarchy of Derivative Liability (Details) Sheet <http://sintx.com/role/ScheduleOfFairValueMeasurementHierarchyOfDerivativeLiabilityDetails> Schedule of Fair Value Measurement Hierarchy of Derivative Liability (Details) Details <http://sintx.com/role/ScheduleOfFairValueMeasurementHierarchyOfDerivativeLiabilityDetails> 31 false false R32.htm 00000032 - Disclosure - Schedule of Assumptions used in Estimating Fair Value (Details) Sheet <http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails> Schedule of Assumptions used in Estimating Fair Value (Details) Details <http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails> 32 false false R33.htm 00000033 - Disclosure - Schedule of Accrued Liabilities (Details) Sheet <http://sintx.com/role/ScheduleOfAccruedLiabilitiesDetails> Schedule of Accrued Liabilities (Details) Details <http://sintx.com/role/ScheduleOfAccruedLiabilitiesDetails> 33 false false R34.htm 00000034 - Disclosure - Debt (Details Narrative) Sheet <http://sintx.com/role/DebtDetailsNarrative> Debt (Details Narrative) Details <http://sintx.com/role/DebtDetailsNarrative> 34 false false R35.htm 00000035 - Disclosure - Equity (Details Narrative) Sheet <http://sintx.com/role/EquityDetailsNarrative> Equity (Details Narrative) Details <http://sintx.com/role/EquityDetailsNarrative> 35 false false R36.htm 00000036 - Disclosure - Schedule of Stock Option Activity (Details) Sheet <http://sintx.com/role/ScheduleOfStockOptionActivityDetails> Schedule of Stock Option Activity (Details) Details <http://sintx.com/role/ScheduleOfStockOptionActivityDetails> 36 false false R37.htm 00000037 - Disclosure - Schedule of Unrecognized Stock-based Compensation (Details) Sheet <http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails> Schedule of Unrecognized Stock-based Compensation (Details) Details <http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails> 37 false false R38.htm 00000038 - Disclosure - Stock-Based Compensation (Details Narrative) Sheet <http://sintx.com/role/Stock-basedCompensationDetailsNarrative> Stock-Based Compensation (Details Narrative) Details <http://sintx.com/role/Stock-basedCompensationDetailsNarrative> 38 false false R39.htm 00000039 - Disclosure - Schedule of Operating Lease Future Minimum Payments (Details) Sheet <http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails> Schedule of Operating Lease Future Minimum Payments (Details) Details <http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails> 39 false false R40.htm 00000040 - Disclosure - Leases (Details Narrative) Sheet <http://sintx.com/role/LeasesDetailsNarrative> Leases (Details Narrative) Details <http://sintx.com/role/LeasesDetailsNarrative> 40 false false R41.htm 00000041 - Disclosure - Subsequent Events (Details Narrative) Sheet <http://sintx.com/role/SubsequentEventsDetailsNarrative> Subsequent Events (Details Narrative) Details <http://sintx.com/role/SubsequentEventsDetailsNarrative> 41 false false All Reports Book All Reports form10-q.htm sint-20240630.xsd sint-20240630_cal.xml sint-20240630_def.xml sint-20240630_lab.xml sint-20240630_pre.xml <http://fasb.org/us-gaap-2024> <http://xbrl.sec.gov/dei/2024> true true **JSON 58 MetaLinks** **JSON IDEA: XBRL DOCUMENT** { "version": "2.2", "instance": { "form10-q.htm": { "nsprefix": "SINT", "nsuri": "http://sintx.com/20240630", "dts": { "inline": { "local": { "form10-q.htm" } }, "schema": { "local": { "sint-20240630.xsd" } }, "remote": { "http://www.xbrl.org/2003/xbrl-instance-2003-12-31.xsd", "http://www.xbrl.org/2003/xbrl-linkbase-2003-12-31.xsd", "http://www.xbrl.org/2003/xl-2003-12-31.xsd", "http://www.xbrl.org/2003/xlink-2003-12-31.xsd", "http://www.xbrl.org/2005/xbrldt-2005.xsd", "http://www.xbrl.org/2006/ref-2006-02-27.xsd", "http://www.xbrl.org/lrr/role/negated-2009-12-16.xsd", "http://www.xbrl.org/lrr/role/net-2009-12-16.xsd", "http://www.xbrl.org/lrr/role/reference-2009-12-16.xsd", "https://www.xbrl.org/2020/extensible-enumerations-2.0.xsd", "https://www.xbrl.org/dtr/type/2020-01-21/types.xsd", "https://www.xbrl.org/dtr/type/2022-03-31/types.xsd", "https://xbrl.fasb.org/srt/2024/elts/srt-2024.xsd", "https://xbrl.fasb.org/srt/2024/elts/srt-roas-2024.xsd", "https://xbrl.fasb.org/srt/2024/elts/srt-roles-2024.xsd", "https://xbrl.fasb.org/us-gaap/2024/elts/us-gaap/2024/elts/us-roles-2024.xsd", "https://xbrl.fasb.org/us-gaap/2024/elts/us-types-2024.xsd", "https://xbrl.sec.gov/country/2024/country-2024.xsd", "https://xbrl.sec.gov/dei/2024/dei-2024.xsd", "https://xbrl.sec.gov/sptr/2024/sptr-2024.xsd" } }, "calculationLink": { "local": { "sint-20240630_cal.xml" } }, "definitionLink": { "local": { "sint-20240630_def.xml" } }, "labelLink": { "local": { "sint-20240630_lab.xml" } }, "presentationLink": { "local": { "sint-20240630_pre.xml" } } }, "keyStandard": 228, "keyCustom": 50, "axisStandard": 21, "axisCustom": 0, "memberStandard": 20, "memberCustom": 33, "hidden": { "total": 186, "http://fasb.org/us-gaap/2024": 132, "http://sintx.com/20240630": 50, "http://xbrl.sec.gov/dei/2024": 4 }, "contextCount": 170, "entityCount": 1, "segmentCount": 56, "elementCount": 451, "unitCount": 5, "baseTaxonomies": { "http://fasb.org/us-gaap/2024": 698, "http://xbrl.sec.gov/dei/2024": 30 }, "report": { "R1": { "role": "http://sintx.com/role/Cover", "longName": "00000001 - Document - Cover", "shortName": "Cover", "isDefault": true, "groupType": "document", "subGroupType": "", "menuCat": "Cover", "order": 1, "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "dei:DocumentType", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["span"], "b": "span", "p": "body", "html": 1, "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "dei:DocumentType", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["span"], "b": "span", "p": "body", "html": 1, "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R2": { "role": "http://sintx.com/role/BalanceSheets", "longName": "00000002 - Statement - Condensed Consolidated Balance Sheets (Unaudited)", "shortName": "Condensed Consolidated Balance Sheets (Unaudited)", "isDefault": "false", "groupType": "statement", "subGroupType": "", "menuCat": "Statements", "order": 2, "firstAnchor": { "contextRef": "AsOf2024-06-30", "name": "us-gaap:CashAndCashEquivalentsAtCarryingValue", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "3", "ancestors": ["td", "tr", "table", "tbody", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "AsOf2024-06-30", "name": "us-gaap:CashAndCashEquivalentsAtCarryingValue", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "3", "ancestors": ["td", "tr", "table", "tbody", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R3": { "role": "http://sintx.com/role/BalanceSheetsParenthetical", "longName": "00000003 - Statement - Condensed Consolidated Balance Sheets (Unaudited) (Parenthetical)", "shortName": "Condensed Consolidated Balance Sheets (Unaudited) (Parenthetical)", "isDefault": "false", "groupType": "statement", "subGroupType": "parenthetical", "menuCat": "Statements", "order": 3, "firstAnchor": { "contextRef": "AsOf2024-06-30", "name": "us-gaap:AllowanceForDoubtfulAccountsReceivableCurrent", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "3", "ancestors": ["span", "td", "tr", "table", "tbody", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-04-01to2024-06-30", "name": "us-gaap:RevenueFromContractWithCustomerExcludingAssessedTax", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "3", "ancestors": ["td", "tr", "table", "tbody", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R4": { "role": "http://sintx.com/role/StatementsOfOperations", "longName": "00000004 - Statement - Condensed Consolidated Statements of Operations (Unaudited)", "shortName": "Condensed Consolidated Statements of Operations (Unaudited)", "isDefault": "false", "groupType": "statement", "subGroupType": "", "menuCat": "Statements", "order": 4, "firstAnchor": { "contextRef": "From2024-04-01to2024-06-30", "name": "us-gaap:RevenueFromContractWithCustomerExcludingAssessedTax", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "3", "ancestors": ["td", "tr", "table", "tbody", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-04-01to2024-06-30", "name": "us-gaap:RevenueFromContractWithCustomerExcludingAssessedTax", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "3", "ancestors": ["td", "tr", "table", "tbody", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R5": { "role": "http://sintx.com/role/StatementsOfStockholdersEquity", "longName": "00000005 - Statement - Condensed Consolidated Statements of Stockholders' Equity (Unaudited)", "shortName": "Condensed Consolidated Statements of Stockholders' Equity (Unaudited)", "isDefault": "false", "groupType": "statement", "subGroupType": "", "menuCat": "Statements", "order": 5, "firstAnchor": { "contextRef": "AsOf2022-12-31 us-gaap AdditionalPaidInCapitalMember", "name": "us-gaap:StockholdersEquity", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "3", "ancestors": ["td", "tr", "table", "tbody", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true }, "uniqueAnchor": { "contextRef": "From2023-01-01to2023-03-31 us-gaap AdditionalPaidInCapitalMember", "name": "us-gaap:StockIssuedDuringPeriodValueShareBasedCompensation", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "3", "ancestors": ["td", "tr", "table", "tbody", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "http://sintx.com/role/StatementsOfCashFlows", "longName": "00000006 - Statement - Condensed Consolidated Statements of Cash Flows (Unaudited)", "shortName": "Condensed Consolidated Statements of Cash Flows (Unaudited)", "isDefault": "false", "groupType": "statement", "subGroupType": "", "menuCat": "Statements", "order": 6, "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:NetIncomeLoss", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "3", "ancestors": ["td", "tr", "table", "tbody", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:Depreciation", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "3", "ancestors": ["td", "tr", "table", "tbody", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPolicies", "longName": "00000007 - Disclosure - Organization and Summary of Significant Accounting Policies", "shortName": "Organization and Summary of Significant Accounting Policies", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": 7, "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:OrganizationConsolidationAndPresentationOfFinancialStatementsDisclosureAndSignificantAccountingPoliciesTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:OrganizationConsolidationAndPresentationOfFinancialStatementsDisclosureAndSignificantAccountingPoliciesTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R8": { "role": "http://sintx.com/role/BasicAndDilutedNetIncomeLossPerCommonShare", "longName": "00000008 - Disclosure - Basic and Diluted Net Income (Loss) per Common Share", "shortName": "Basic and Diluted Net Income (Loss) per Common Share", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": 8, "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:EarningsPerShareTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:EarningsPerShareTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R9": { "role": "http://sintx.com/role/Inventories", "longName": "00000009 - Disclosure - Inventories", "shortName": "Inventories", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": 9, "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:InventoryDisclosureTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:InventoryDisclosureTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R10": { "role": "http://sintx.com/role/FairValueMeasurements", "longName": "00000010 - Disclosure - Fair Value Measurements", "shortName": "Fair Value Measurements", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": 10, "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:FairValueDisclosuresTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:FairValueDisclosuresTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R11": { "role": "http://sintx.com/role/AccruedLiabilities", "longName": "00000011 - Disclosure - Accrued Liabilities", "shortName": "Accrued Liabilities", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": 11, "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:AccountsPayableAccruedLiabilitiesAndOtherLiabilitiesDisclosureCurrentTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:AccountsPayableAccruedLiabilitiesAndOtherLiabilitiesDisclosureCurrentTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R12": { "role": "http://sintx.com/role/Debt", "longName": "00000012 - Disclosure - Debt", "shortName": "Debt", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": 12, "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:DebtDisclosureTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:DebtDisclosureTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R13": { "role": "http://sintx.com/role/Equity", "longName": "00000013 - Disclosure - Equity", "shortName": "Equity", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": 13, "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:StockholdersEquityNoteDisclosureTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:StockholdersEquityNoteDisclosureTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "R14": { "role": "http://sintx.com/role/Stock-basedCompensation", "longName": "00000014 - Disclosure - Stock-based Compensation", "shortName": "Stock-based Compensation", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": 14, "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-

gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R15": { "role": "http://sintx.com/role/CommitmentsAndContingencies", "longName": "00000015 - Disclosure - Commitments and Contingencies", "shortName": "Commitments and Contingencies", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": "15", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:CommitmentsAndContingenciesDisclosureTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:CommitmentsAndContingenciesDisclosureTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R16": { "role": "http://sintx.com/role/Leases", "longName": "00000016 - Disclosure - Leases", "shortName": "Leases", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": "16", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:LesseeOperatingLeasesTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:LesseeOperatingLeasesTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R17": { "role": "http://sintx.com/role/SubsequentEvents", "longName": "00000017 - Disclosure - Subsequent Events", "shortName": "Subsequent Events", "isDefault": "false", "groupType": "disclosure", "subGroupType": "", "menuCat": "Notes", "order": "17", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:SubsequentEventsTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:SubsequentEventsTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R18": { "role": "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPolicies", "longName": "00000018 - Disclosure - Organization and Summary of Significant Accounting Policies (Policies)", "shortName": "Organization and Summary of Significant Accounting Policies (Policies)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "Policies", "menuCat": "Policies", "order": "18", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:BasisOfAccountingPolicyPolicyTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:OrganizationConsolidationAndPresentationOfFinancialStatementsDisclosureAndSignificantAccountingPoliciesTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:BasisOfAccountingPolicyPolicyTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:OrganizationConsolidationAndPresentationOfFinancialStatementsDisclosureAndSignificantAccountingPoliciesTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R19": { "role": "http://sintx.com/role/BasisAndDilutedNetIncomeLossPerCommonShareTables", "longName": "00000019 - Disclosure - Basic and Diluted Net Income (Loss) per Common Share (Tables)", "shortName": "Basic and Diluted Net Income (Loss) per Common Share (Tables)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "tables", "menuCat": "Tables", "order": "19", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:EarningsPerShareTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:EarningsPerShareTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R20": { "role": "http://sintx.com/role/InventoriesTables", "longName": "00000020 - Disclosure - Inventories (Tables)", "shortName": "Inventories (Tables)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "tables", "menuCat": "Tables", "order": "20", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:ScheduleOfInventoryCurrentTableTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:InventoryDisclosureTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:ScheduleOfInventoryCurrentTableTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:InventoryDisclosureTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R21": { "role": "http://sintx.com/role/FairValueMeasurementsTables", "longName": "00000021 - Disclosure - Fair Value Measurements (Tables)", "shortName": "Fair Value Measurements (Tables)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "tables", "menuCat": "Tables", "order": "21", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:FairValueLiabilitiesMeasuredOnRecurringBasisTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:FairValueDisclosuresTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:FairValueLiabilitiesMeasuredOnRecurringBasisTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:FairValueDisclosuresTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R22": { "role": "http://sintx.com/role/AccruedLiabilitiesTables", "longName": "00000022 - Disclosure - Accrued Liabilities (Tables)", "shortName": "Accrued Liabilities (Tables)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "tables", "menuCat": "Tables", "order": "22", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:ScheduleOfAccruedLiabilitiesTableTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:AccountsPayableAccruedLiabilitiesAndOtherLiabilitiesDisclosureCurrentTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:ScheduleOfAccruedLiabilitiesTableTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:AccountsPayableAccruedLiabilitiesAndOtherLiabilitiesDisclosureCurrentTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R23": { "role": "http://sintx.com/role/Stock-basedCompensationTables", "longName": "00000023 - Disclosure - Stock-based Compensation (Tables)", "shortName": "Stock-based Compensation (Tables)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "tables", "menuCat": "Tables", "order": "23", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R24": { "role": "http://sintx.com/role/LeasesTables", "longName": "00000024 - Disclosure - Leases (Tables)", "shortName": "Leases (Tables)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "tables", "menuCat": "Tables", "order": "24", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:LesseeOperatingLeaseLiabilityMaturityTableTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:LesseeOperatingLeasesTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:LesseeOperatingLeaseLiabilityMaturityTableTextBlock", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["us-gaap:LesseeOperatingLeasesTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R25": { "role": "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative", "longName": "00000025 - Disclosure - Organization and Summary of Significant Accounting Policies (Details Narrative)", "shortName": "Organization and Summary of Significant Accounting Policies (Details Narrative)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "details", "menuCat": "Details", "order": "25", "firstAnchor": { "contextRef": "From2024-05-28to2024-05-28", "name": "us-gaap:StockholdersEquityReverseStockSplit", "unitRef": null, "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["span", "span", "p", "SINT:ReverseStockSplitPolicyTextBlock", "us-gaap:OrganizationConsolidationAndPresentationOfFinancialStatementsDisclosureAndSignificantAccountingPoliciesTextBlock", "body", "html"] , "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true }, "uniqueAnchor": { "contextRef": "From2024-04-05to2024-04-05", "name": "SINT:OfferingExpensesPayable", "unitRef": "USD", "xsiNil": "false", "lang": null, "decimals": "-5", "ancestors": [

1, "baseRef": "form10-q.htm", "unique": true } }, "R35": { "role": "http://sintx.com/role/EquityDetailsNarrative", "longName": "00000035 - Disclosure - Equity (Details Narrative)", "shortName": "Equity (Details Narrative)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "details", "menuCat": "Details", "order": "35", "firstAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:ProceedsFromIssuanceOfCommonStock", "unitRef": "USD", "xsiNil": "false", "lang": "null", "decimals": "-3", "ancestors": ["td", "tr", "table", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "uniqueAnchor": { "contextRef": "AsOf2024-02-02", "name": "SINT:PublicOfferingUnits", "unitRef": "Shares", "xsiNil": "false", "lang": "null", "decimals": "-1NF", "ancestors": ["span", "span", "p", "us-gaap:StockholdersEquityNoteDisclosureTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "unique": true } }, "R36": { "role": "http://sintx.com/role/ScheduleOfStockOptionActivityDetails", "longName": "00000036 - Disclosure - Schedule of Stock Option Activity (Details)", "shortName": "Schedule of Stock Option Activity (Details)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "details", "menuCat": "Details", "order": "36", "firstAnchor": { "contextRef": "AsOf2023-12-31", "name": "us-gaap:ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber", "unitRef": "Shares", "xsiNil": "false", "lang": "null", "decimals": "-1NF", "ancestors": ["td", "tr", "table", "us-gaap:ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock", "us-gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30", "name": "us-gaap:ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageRemainingContractualTerm2", "unitRef": "null", "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["span", "td", "tr", "table", "us-gaap:ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock", "us-gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "unique": true } }, "R37": { "role": "http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails", "longName": "00000037 - Disclosure - Schedule of Unrecognized Stock-based Compensation (Details)", "shortName": "Schedule of Unrecognized Stock-based Compensation (Details)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "details", "menuCat": "Details", "order": "37", "firstAnchor": { "contextRef": "AsOf2024-06-30 us-gaap:EmployeeStockOptionMember19401875", "name": "us-gaap:EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognized", "unitRef": "USD", "xsiNil": "false", "lang": "null", "decimals": "-3", "ancestors": ["td", "tr", "table", "us-gaap:ScheduleOfUnrecognizedCompensationCostNonvestedAwardsTableTextBlock", "us-gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R38": { "role": "http://sintx.com/role/Stock-basedCompensationDetailsNarrative", "longName": "00000038 - Disclosure - Stock-based Compensation (Details Narrative)", "shortName": "Stock-based Compensation (Details Narrative)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "details", "menuCat": "Details", "order": "38", "firstAnchor": { "contextRef": "AsOf2024-06-30", "name": "us-gaap:ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber", "unitRef": "Shares", "xsiNil": "false", "lang": "null", "decimals": "-1NF", "ancestors": ["td", "tr", "table", "us-gaap:ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock", "us-gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "uniqueAnchor": { "contextRef": "From2024-01-01to2024-06-30 custom_NonExecutiveMember", "name": "us-gaap:ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross", "unitRef": "Shares", "xsiNil": "false", "lang": "null", "decimals": "-1NF", "ancestors": ["span", "span", "p", "us-gaap:DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "unique": true } }, "R39": { "role": "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails", "longName": "00000039 - Disclosure - Schedule of Operating Lease Future Minimum Payments (Details)", "shortName": "Schedule of Operating Lease Future Minimum Payments (Details)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "details", "menuCat": "Details", "order": "39", "firstAnchor": { "contextRef": "AsOf2024-06-30", "name": "us-gaap:LesseeOperatingLeaseLiabilityPaymentsRemainderOffiscalYear", "unitRef": "USD", "xsiNil": "false", "lang": "null", "decimals": "-3", "ancestors": ["td", "tr", "table", "us-gaap:LesseeOperatingLeaseLiabilityTableTextBlock", "us-gaap:LesseeOperatingLeaseLiabilityPaymentsRemainderOffiscalYear", "unitRef": "USD", "xsiNil": "false", "lang": "null", "decimals": "-3", "ancestors": ["td", "tr", "table", "us-gaap:LesseeOperatingLeaseLiabilityTableTextBlock", "us-gaap:LesseeOperatingLeaseLiabilityTableTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R40": { "role": "http://sintx.com/role/LeasesDetailsNarrative", "longName": "00000040 - Disclosure - Leases (Details Narrative)", "shortName": "Leases (Details Narrative)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "details", "menuCat": "Details", "order": "40", "firstAnchor": { "contextRef": "AsOf2024-06-30", "name": "us-gaap:AreaOfLand", "unitRef": "sqft", "xsiNil": "false", "lang": "null", "decimals": "-1NF", "ancestors": ["span", "span", "p", "us-gaap:LesseeOperatingLeasesTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "uniqueAnchor": { "contextRef": "AsOf2024-06-30", "name": "us-gaap:AreaOfLand", "unitRef": "sqft", "xsiNil": "false", "lang": "null", "decimals": "-1NF", "ancestors": ["span", "span", "p", "us-gaap:LesseeOperatingLeasesTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "unique": true } }, "R41": { "role": "http://sintx.com/role/SubsequentEventsDetailsNarrative", "longName": "00000041 - Disclosure - Subsequent Events (Details Narrative)", "shortName": "Subsequent Events (Details Narrative)", "isDefault": "false", "groupType": "disclosure", "subGroupType": "details", "menuCat": "Details", "order": "41", "firstAnchor": { "contextRef": "From2024-05-282024-05-28", "name": "us-gaap:StockholdersEquityReverseStockSplit", "unitRef": "null", "xsiNil": "false", "lang": "en-US", "decimals": null, "ancestors": ["span", "span", "p", "SINT:ReverseStockSplitPolicyTextBlock", "us-gaap:OrganizationConsolidationAndPresentationOfFinancialStatementsDisclosureAndSignificantAccountingPoliciesTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "first": true, "uniqueAnchor": { "contextRef": "AsOf2024-06-11", "name": "SINT:BidPrice", "unitRef": "USDPShares", "xsiNil": "false", "lang": "null", "decimals": "-1NF", "ancestors": ["span", "span", "p", "us-gaap:SubsequentEventsTextBlock", "body", "html"], "reportCount": 1, "baseRef": "form10-q.htm", "unique": true } }, "tag": { "us-gaap:AccountsAndOtherReceivablesNetCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccountsAndOtherReceivablesNetCurrent", "crdr": "debit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap:AssetsCurrent", "weight": 1.0, "order": 2.0 }, "presentation": { "http://sintx.com/role/BalanceSheets": { "lang": { "en-us": { "role": { "label": "Account and other receivables, net of allowance totaling 68 and 72 respectively", "documentation": "Amount, after allowance, receivable from customers, clients, or other third-parties, and receivables classified as other due within one year or the normal operating cycle, if longer." } } }, "auth_ref": [] }, "us-gaap:AccountsPayableAccruedLiabilitiesAndOtherLiabilitiesDisclosureCurrentTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccountsPayableAccruedLiabilitiesAndOtherLiabilitiesDisclosureCurrentTextBlock", "presentation": { "http://sintx.com/role/AccruedLiabilities": { "lang": { "en-us": { "role": { "label": "Accrued liabilities", "documentation": "The entire disclosure for accounts payable, accrued expenses, and other liabilities that are classified as current at the end of the reporting period." } } }, "auth_ref": ["r316"] }, "us-gaap:AccountsPayableCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccountsPayableCurrent", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap:LiabilitiesCurrent", "weight": 1.0, "order": 1.0 }, "presentation": { "http://sintx.com/role/BalanceSheets": { "lang": { "en-us": { "role": { "label": "Accounts payable", "documentation": "Carrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r27", "r555"] }, "us-gaap:AccruedLiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccruedLiabilitiesCurrent", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap:LiabilitiesCurrent", "weight": 1.0, "order": 2.0 }, "http://sintx.com/role/ScheduleOfAccruedLiabilitiesDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": { "http://sintx.com/role/BalanceSheets": { "http://sintx.com/role/ScheduleOfAccruedLiabilitiesDetails": { "lang": { "en-us": { "role": { "label": "Accrued liabilities", "totalLabel": "Accrued liabilities", "documentation": "Carrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r29"] }, "SINT:AccruedPayableCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "AccruedPayableCurrent", "crdr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfAccruedLiabilitiesDetails": { "parentTag": "us-gaap:AccruedLiabilitiesCurrent", "weight": 1.0, "order": 2.0 }, "presentation": { "http://sintx.com/role/ScheduleOfAccruedLiabilitiesDetails": { "lang": { "en-us": { "role": { "label": "Accrued payables", "documentation": "Accrued payable current." } } }, "auth_ref": [] }, "us-gaap:AccumulatedOtherComprehensiveIncomeLossLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccumulatedOtherComprehensiveIncomeLossLineItems", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Accumulated Other Comprehensive Income (Loss) [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r115", "r116", "r369", "r370", "r371", "r372", "r373", "r374"] }, "us-gaap:AccumulatedOtherComprehensiveIncomeLossTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccumulatedOtherComprehensiveIncomeLossTable", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Accumulated Other Comprehensive Income (Loss) [Table]", "documentation": "Disclosure of information about components of accumulated other comprehensive income (loss)." } } }, "auth_ref": ["r115", "r116", "r369", "r370", "r371", "r372", "r373", "r374"] }, "us-gaap:AdditionalPaidInCapital": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdditionalPaidInCapital", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap:StockholdersEquity", "weight": 1.0, "order": 3.0 }, "presentation": { "http://sintx.com/role/BalanceSheets": { "lang": { "en-us": { "role": { "label": "Additional paid in capital", "documentation": "Amount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock." } } }, "auth_ref": ["r39", "r555", "r727"] }, "us-gaap:AdditionalPaidInCapitalMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdditionalPaidInCapitalMember", "presentation": { "http://sintx.com/role/StatementsOfStockholdersEquity": { "lang": { "en-us": { "role": { "label": "Additional Paid in Capital [Member]", "documentation": "Excess of issue price over par or stated value of the entity's capital stock and amounts received from other transactions involving the entity's stock or stockholders." } } }, "auth_ref": ["r443", "r609", "r610", "r611", "r612", "r669", "r728"] }, "us-gaap:AdjustmentsToAdditionalPaidInCapitalDividendsInExcessOfRetainedEarnings": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdjustmentsToAdditionalPaidInCapitalDividendsInExcessOfRetainedEarnings", "crdr": "debit", "presentation": { "http://sintx.com/role/StatementsOfStockholdersEquity": { "lang": { "en-us": { "role": { "label": "Deemed dividend related to the conversion of preferred stock", "documentation": "Amount of decrease in additional paid in capital (APIC) resulting from dividends legally declared (or paid) in excess of retained earnings balance." } } }, "auth_ref": ["r6", "r69"] }, "SINT:AdjustmentsToAdditionalPaidInCapitalExtinguishmentOfDerivativeLiabilityUponExerciseOfWarrant": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "AdjustmentsToAdditionalPaidInCapitalExtinguishmentOfDerivativeLiabilityUponExerciseOfWarrant", "crdr": "credit", "presentation": { "http://sintx.com/role/StatementsOfStockholdersEquity": { "lang": { "en-us": { "role": { "label": "Extinguishment of derivative liability upon exercise of warrant", "documentation": "Adjustments to additional paid in capital extinguishment of derivative liability upon exercise of warrant." } } }, "auth_ref": [] }, "SINT:AdjustmentsToAdditionalPaidInCapitalIssuanceOfAgentWarrants": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "AdjustmentsToAdditionalPaidInCapitalIssuanceOfAgentWarrants", "crdr": "credit", "presentation": { "http://sintx.com/role/StatementsOfStockholdersEquity": { "lang": { "en-us": { "role": { "label": "Issuance of agent warrants", "documentation": "Adjustments to Additional Paid In Capital, Dividends in Excess of Retained Earnings." } } }, "auth_ref": [] }, "us-gaap:AdjustmentsToAdditionalPaidInCapitalOther": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdjustmentsToAdditionalPaidInCapitalOther", "crdr": "credit", "presentation": { "http://sintx.com/role/StatementsOfStockholdersEquity": { "lang": { "en-us": { "role": { "label": "Deemed dividend related to the conversion of preferred stock", "documentation": "Amount of other increase (decrease) in additional paid in capital (APIC)." } } }, "auth_ref": [] }, "us-gaap:AdjustmentsToAdditionalPaidInCapitalWarrantIssued": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdjustmentsToAdditionalPaidInCapitalWarrantIssued", "crdr": "credit", "presentation": { "http://sintx.com/role/StatementsOfStockholdersEquity": { "lang": { "en-us": { "role": { "label": "Unfunded warrants issued for cash, net of cash fees", "documentation": "Amount of increase in additional paid in capital (APIC) resulting from the issuance of warrants. Includes allocation of proceeds of debt securities issued with detachable stock purchase warrants." } } }, "auth_ref": ["r6", "r18", "r69"] }, "us-gaap:AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract", "presentation": { "http://sintx.com/role/StatementsOfCashFlows": { "lang": { "en-us": { "role": { "label": "Adjustments to reconcile net loss to net cash used in operating activities." } } }, "auth_ref": [] }, "SINT:AgentWarrantOfferingCostAllocatedToEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "AgentWarrantOfferingCostAllocatedToEquity", "crdr": "credit", "presentation": { "http://sintx.com/role/StatementsOfCashFlows": { "lang": { "en-us": { "role": { "label": "Agent warrant offering cost allocated to equity", "documentation": "Agent warrant offering cost allocated to equity." } } }, "auth_ref": [] }, "SINT:AgentWarrantOfferingMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "AgentWarrantOfferingMember", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Agent Warrant Offering [Member]", "documentation": "Agent Warrant Offering [Member]" } } }, "auth_ref": [] }, "us-gaap:AllowanceForDoubtfulAccountsReceivableCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AllowanceForDoubtfulAccountsReceivableCurrent", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap:NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 4.0 }, "presentation": { "http://sintx.com/role/StatementsOfCashFlows": { "lang": { "en-us": { "role": { "label": "Amortization of intangible assets", "documentation": "The aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method." } } }, "auth_ref": ["r3", "r194", "r195", "r534"] }, "dei:AnnualInformationForm": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "AnnualInformationForm", "presentation": { "http://sintx.com/role/Cover": { "lang": { "en-us": { "role": { "label": "Annual Information Form",

"documentation": "Boolean flag with value true on a form if it is an annual report containing an annual information form." } } } , "auth ref": ["r585"] } , "us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount", "presentation": ["http://sintx.com/role/BasicAndDilutedNetIncomeLossPerCommonShareDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Number of potentially dilutive securities", "documentation": "Securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented." } } } , "auth ref": ["r162"] } , "us-gaap_AreaOfLand": { "xbrltype": "areaItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AreaOfLand", "presentation": ["http://sintx.com/role/LeasesDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Area of land", "documentation": "Area of land held." } } } , "auth ref": [] } , "us-gaap_ArrangementsAndNonarrangementTransactionsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ArrangementsAndNonarrangementTransactionsMember", "presentation": ["http://sintx.com/role/DebtDetailsNarrative", "http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/LeasesDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "documentation": "Collaborative arrangement and arrangement other than collaborative applicable to revenue-generating activity or operations." } } } , "auth ref": ["r331"] } , "us-gaap_Assets": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Assets", "crdr": "debit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": null, "weight": null, "order": null, "root": true } } , "presentation": ["http://sintx.com/role/BalanceSheets"] , "lang": { "en-us": { "role": { "totalLabel": "Total assets", "label": "Assets [Default Label]", "documentation": "Amount of asset recognized for present right to economic benefit." } } } , "auth ref": ["r76", "r88", "r103", "r129", "r166", "r170", "r175", "r176", "r187", "r210", "r211", "r212", "r213", "r214", "r215", "r216", "r217", "r218", "r332", "r334", "r368", "r407", "r477", "r531", "r532", "r555", "r570", "r633", "r634", "r685"] } , "us-gaap_AssetsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AssetsAbstract", "presentation": ["http://sintx.com/role/BalanceSheets"] , "lang": { "en-us": { "role": { "label": "Assets", "documentation": "Amount of asset recognized for present right to economic benefit, classified as current." } } } , "auth ref": ["r99", "r111", "r129", "r187", "r210", "r211", "r212", "r213", "r214", "r215", "r216", "r217", "r218", "r332", "r334", "r368", "r555", "r633", "r634", "r685"] } , "us-gaap_AssetsCurrentAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AssetsCurrentAbstract", "presentation": ["http://sintx.com/role/BalanceSheets"] , "lang": { "en-us": { "role": { "label": "Current assets." } } } , "auth ref": [] } , "dei_AuditedAnnualFinancialStatements": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "AuditedAnnualFinancialStatements", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Audited Annual Financial Statements", "documentation": "Boolean flag with value true on a form if it is an annual report containing audited financial statements." } } } , "auth ref": ["r585"] } , "SINT_AvailableForSaleSecuritiesAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "AvailableForSaleSecuritiesAmount", "crdr": "debit", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Amount available for sale", "documentation": "Available for sale securities amount." } } } , "auth ref": [] } , "us-gaap_AwardTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AwardTypeAxis", "presentation": ["http://sintx.com/role/Stock-basedCompensationDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Award Type [Axis]", "documentation": "Information by type of award under share-based payment arrangement." } } } , "auth ref": ["r285", "r287", "r288", "r289", "r290", "r291", "r292", "r293", "r294", "r295", "r296", "r297", "r298", "r299", "r300", "r301", "r302", "r303", "r304", "r305", "r306", "r307", "r308", "r309", "r310"] } , "SINT_BasicDeemedDividendAndAccretionOfDiscountBasicCalculation": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "BasicDeemedDividendAndAccretionOfDiscountBasicCalculation", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"] , "lang": { "en-us": { "role": { "label": "Net loss per common share: Deemed dividend and accretion of a discount, Basic Calculation", "documentation": "Deemed dividend and accretion of a discount, basic calculation." } } } , "auth ref": [] } , "SINT_BasicDeemedDividendAndAccretionOfDiscountOnConversionOfSeriesBPreferredStock": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "BasicDeemedDividendAndAccretionOfDiscountOnConversionOfSeriesBPreferredStock", "presentation": ["http://sintx.com/role/StatementsOfOperations"] , "lang": { "en-us": { "role": { "label": "Basic 1u2013 deemed dividend on conversion of preferred stock", "documentation": "Basic deemed dividend and accretion of discount on conversion of series B preferred stock." } } } , "auth ref": [] } , "SINT_BasicNetIncomeLossPerShare": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "BasicNetIncomeLossPerShare", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"] , "lang": { "en-us": { "role": { "label": "Net loss per common share: Net loss, Basic Calculation", "documentation": "Basic net income loss per share." } } } , "auth ref": [] } , "us-gaap_BasisOfAccountingPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BasisOfAccountingPolicyTextBlock", "presentation": ["http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesPolicies"] , "lang": { "en-us": { "role": { "label": "Basis of Presentation", "documentation": "Disclosure of accounting policy for basis of accounting, or basis of presentation, used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS)." } } } , "auth ref": [] } , "SINT_BidPrice": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "BidPrice", "presentation": ["http://sintx.com/role/SubsequentEventsDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Bid price", "documentation": "Bid price." } } } , "auth ref": [] } , "SINT_BlackScholesMertonValuationModelMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "BlackScholesMertonValuationModelMember", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"] , "lang": { "en-us": { "role": { "label": "Black-Scholes-Merton Valuation Model [Member]", "documentation": "Black-Scholes-Merton Valuation Model [Member]" } } } , "auth ref": [] } , "SINT_BusinessLoanMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "BusinessLoanMember", "presentation": ["http://sintx.com/role/DebtDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Business Loan [Member]", "documentation": "Business Loan [Member]" } } } , "auth ref": [] } , "us-gaap_CashAndCashEquivalentsAtCarryingValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashAndCashEquivalentsAtCarryingValue", "crdr": "debit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 1.0 } } , "presentation": ["http://sintx.com/role/BalanceSheets"] , "lang": { "en-us": { "role": { "label": "Cash and cash equivalents", "documentation": "Amount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation." } } } , "auth ref": ["r13", "r101", "r526"] } , "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations", "crdr": "debit", "presentation": ["http://sintx.com/role/StatementsOfCashFlows"] , "lang": { "en-us": { "role": { "periodStartLabel": "Cash and cash equivalents at beginning of period", "periodEndLabel": "Cash and cash equivalents at end of period", "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Including Disposal Group and Discontinued Operations", "documentation": "Amount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage, including, but not limited to, disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } } , "auth ref": ["r13", "r59", "r126"] } , "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": null, "weight": null, "order": null, "root": true } } , "presentation": ["http://sintx.com/role/StatementsOfCashFlows"] , "lang": { "en-us": { "role": { "totalLabel": "Net increase in cash and cash equivalents", "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease) Including Exchange Rate Effect", "documentation": "Amount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage, including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } } , "auth ref": ["r0", "r59"] } , "us-gaap_CashFlowNoncashInvestingAndFinancingActivitiesDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashFlowNoncashInvestingAndFinancingActivitiesDisclosureAbstract", "presentation": ["http://sintx.com/role/StatementsOfCashFlows"] , "lang": { "en-us": { "role": { "label": "Noncash Investing and Financing Activities", "documentation": "Change in fair value of derivative liabilities." } } } , "auth ref": [] } , "SINT_ChangeInFairValueOfDerivativeLiabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "ChangeInFairValueOfDerivativeLiabilities", "crdr": "credit", "calculation": { "http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap_NonoperatingIncomeExpense", "weight": 1.0, "order": 4.0 } } , "presentation": ["http://sintx.com/role/StatementsOfOperations"] , "lang": { "en-us": { "role": { "label": "Change in fair value of derivative liabilities", "documentation": "Change in fair value of derivative liabilities." } } } , "auth ref": [] } , "dei_CityAreaCode": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CityAreaCode", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "City Area Code", "documentation": "Area code of city" } } } , "auth ref": [] } , "SINT_ClassCAndClassDWarrantsMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "ClassCAndClassDWarrantsMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Class C and Class D Warrants [Member]", "documentation": "Class C and Class D Warrants [Member]" } } } , "auth ref": [] } , "SINT_ClassCWarrantMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "ClassCWarrantMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Class C Warrant [Member]", "documentation": "Class C Warrant [Member]" } } } , "auth ref": [] } , "SINT_ClassDWarrantMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "ClassDWarrantMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Class D Warrant [Member]", "documentation": "Class D Warrant [Member]" } } } , "auth ref": [] } , "SINT_ClassEAndClassFWarrantsMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "ClassEAndClassFWarrantsMember", "presentation": ["http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Class E and Class F Warrants [Member]", "documentation": "Class E and Class F Warrants [Member]" } } } , "auth ref": [] } , "SINT_ClassEAndFWarrantsMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "ClassEAndFWarrantsMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Class E and F Warrants [Member]", "documentation": "Class E and F Warrants [Member]" } } } , "auth ref": [] } , "SINT_ClassEWarrantMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "ClassEWarrantMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Class E Warrant [Member]", "documentation": "Class E Warrant [Member]" } } } , "auth ref": [] } , "SINT_ClassFWarrantMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "ClassFWarrantMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Class F Warrant [Member]", "documentation": "Class F Warrant [Member]" } } } , "auth ref": [] } , "SINT_ClassFWarrantMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "ClassFWarrantMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Class F Warrants [Member]", "documentation": "Class F Warrants [Member]" } } } , "auth ref": [] } , "us-gaap_ClassOfStockDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfStockDomain", "presentation": ["http://sintx.com/role/BalanceSheets", "http://sintx.com/role/BalanceSheetsParentetical", "http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "documentation": "Share of stock differentiated by the voting rights the holder receives. Examples include, but are not limited to, common stock, redeemable preferred stock, nonredeemable preferred stock, and convertible stock." } } } , "auth ref": ["r96", "r105", "r106", "r107", "r129", "r151", "r152", "r159", "r161", "r168", "r169", "r187", "r210", "r212", "r213", "r214", "r217", "r218", "r246", "r247", "r249", "r252", "r258", "r368", "r438", "r439", "r440", "r441", "r443", "r444", "r445", "r446", "r447", "r448", "r449", "r450", "r451", "r452", "r453", "r454", "r465", "r486", "r503", "r514", "r515", "r516", "r517", "r518", "r591", "r605", "r613"] } , "us-gaap_ClassOfWarrantOrRightAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightAxis", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Class of Warrant or Right [Axis]", "documentation": "Information by type of warrant or right issued." } } } , "auth ref": ["r20"] } , "us-gaap_ClassOfWarrantOrRightDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightDomain", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "documentation": "Name of the class or type of warrant or right outstanding. Warrants and rights represent derivative securities that give the holder the right to purchase securities (usually equity) from the issuer at a specific price within a certain time frame. Warrants are often included in a new debt issue to entice investors by a higher return potential. The main difference between warrants and call options is that warrants are issued and guaranteed by the company, whereas options are exchange instruments and are not issued by the company. Also, the lifetime of a warrant is often measured in years, while the lifetime of a typical option is measured in months." } } } , "auth ref": [] } , "us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRightsI": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightExercisePriceOfWarrantsOrRightsI", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Warrants exercise price", "documentation": "Exercise price per share or per unit of warrants or rights outstanding." } } } , "auth ref": ["r259"] } , "us-gaap_ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Warrants to purchase common stock", "documentation": "Number of securities into which the class of warrant or right may be converted. For example, but not limited to, 500,000 warrants may be converted into 1,000,000 shares." } } } , "auth ref": ["r259"] } , "us-gaap_ClassOfWarrantOrRightOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightOutstanding", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Warrants to purchase", "documentation": "Number of warrants or rights outstanding." } } } , "auth ref": [] } , "us-gaap_CollaborativeArrangementsAndNoncollaborativeArrangementTransactionsLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CollaborativeArrangementsAndNoncollaborativeArrangementTransactionsLineItems", "presentation": ["http://sintx.com/role/LeasesDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Collaborative Arrangement and Arrangement Other

than Collaborative [Line Items]". "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose relevant information associated with domain members defined in one or many axes to the table." } } } , "auth ref": ["r331"] } , "us-gaap CommitmentsAndContingencies": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingencies", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap LiabilitiesAndStockholdersEquity", "weight": 1.0, "order": 2.0 } } , "presentation": ["http://sintx.com/role/BalanceSheets"] , "lang": { "en-us": { "role": { "label": "Commitments and contingencies", "documentation": "Represents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur." } } } , "auth ref": ["r35", "r80", "r410", "r464"] } , "us-gaap CommitmentsAndContingenciesDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingenciesDisclosureAbstract", "lang": { "en-us": { "role": { "label": "Commitments and Contingencies Disclosure [Abstract]" } } } } , "auth ref": [] } , "us-gaap CommitmentsAndContingenciesDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingenciesDisclosureTextBlock", "presentation": ["http://sintx.com/role/CommitmentsAndContingencies"] , "lang": { "en-us": { "role": { "label": "Commitments and Contingencies", "documentation": "The entire disclosure for commitments and contingencies." } } } , "auth ref": ["r66", "r202", "r203", "r520", "r625", "r630"] } } , "SINT CommonStockAndPrefundedWarrantsMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "CommonStockAndPrefundedWarrantsMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Common Stock and Prefunded Warrants [Member]", "documentation": "Common Stock and Prefunded Warrants [Member]" } } } , "auth ref": [] } , "us-gaap CommonStockMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockMember", "presentation": ["http://sintx.com/role/StatementsOfStockholdersEquity"] , "lang": { "en-us": { "role": { "label": "Common Stock [Member]", "documentation": "Stock that is subordinate to all other stock of the issuer." } } } , "auth ref": ["r561", "r562", "r563", "r565", "r566", "r567", "r568", "r609", "r610", "r612", "r669", "r725", "r728"] } , "us-gaap CommonStockParOrStatedValuePerShare": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockParOrStatedValuePerShare", "presentation": ["http://sintx.com/role/BalanceSheetsParenthetical"] , "http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Common stock, par value", "documentation": "Face amount or stated value per share of common stock." } } } , "auth ref": ["r38"] } } , "us-gaap CommonStockSharesAuthorized": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesAuthorized", "presentation": ["http://sintx.com/role/BalanceSheetsParenthetical"] , "lang": { "en-us": { "role": { "label": "Common stock, shares authorized", "documentation": "The maximum number of common shares permitted to be issued by an entity's charter and bylaws." } } } , "auth ref": ["r38", "r465"] } } , "us-gaap CommonStockSharesIssued": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesIssued", "presentation": ["http://sintx.com/role/BalanceSheetsParenthetical"] , "lang": { "en-us": { "role": { "label": "Common stock, shares issued", "documentation": "Total number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury." } } } , "auth ref": ["r38"] } } , "us-gaap CommonStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesOutstanding", "presentation": ["http://sintx.com/role/BalanceSheetsParenthetical"] , "lang": { "en-us": { "role": { "label": "Common stock, shares outstanding", "documentation": "Number of shares of common stock outstanding. Common stock represent the ownership interest in a corporation." } } } , "auth ref": ["r6", "r38", "r465", "r483", "r728", "r729"] } } , "us-gaap CommonStockValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockValue", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap StockholdersEquity", "weight": 1.0, "order": 2.0 } } , "presentation": ["http://sintx.com/role/BalanceSheets"] , "lang": { "en-us": { "role": { "label": "Common stock, \$0.01 par value, 250,000,000 shares authorized, 748,341 and 26,603 shares issued and outstanding as of June 30, 2024 and December 31, 2023, respectively." } } } , "documentation": "Aggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity." } } } , "auth ref": ["r38", "r412", "r555"] } } , "SINT CommonStockWarrantsMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "CommonStockWarrantsMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"] , "http://sintx.com/role/ScheduleOfFairValueMeasurementHierarchyOfDerivativeLiabilityDetails"] , "http://sintx.com/role/ScheduleOfFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails"] , "lang": { "en-us": { "role": { "label": "Common Stock Warrants [Member]", "documentation": "Common Stock Warrants [Member]" } } } , "auth ref": [] } } , "SINT CommonUnitMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "CommonUnitMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Common Unit [Member]", "documentation": "Common Unit [Member]" } } } , "auth ref": [] } } , "us-gaap CommonUnitOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonUnitOutstanding", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Common units to purchase shares of common stock", "documentation": "Number of common units of ownership outstanding of a limited liability company (LLC)." } } } , "auth ref": [] } } , "us-gaap CostOfRevenue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CostOfRevenue", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap GrossProfit", "weight": -1.0, "order": 2.0 } } , "presentation": ["http://sintx.com/role/StatementsOfOperations"] , "lang": { "en-us": { "role": { "label": "Costs of revenue", "documentation": "The aggregate cost of goods produced and sold and services rendered during the reporting period." } } } , "auth ref": ["r50", "r129", "r187", "r210", "r211", "r212", "r213", "r214", "r215", "r216", "r217", "r218", "r368", "r531", "r633"] } } , "dei CountryRegion": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CountryRegion", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Country Region", "documentation": "Region code of country" } } } , "auth ref": [] } } , "dei CoverAbstract": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CoverAbstract", "lang": { "en-us": { "role": { "label": "Cover [Abstract]", "documentation": "Cover page." } } } , "auth ref": [] } } , "dei CurrentFiscalYearEndDate": { "xbrltype": "gMonthDayItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CurrentFiscalYearEndDate", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Current Fiscal Year End Date", "documentation": "End date of current fiscal year in the format -MM-DD." } } } , "auth ref": [] } } , "us-gaap DebtDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtDisclosureAbstract", "lang": { "en-us": { "role": { "label": "Debt Disclosure [Abstract]" } } } , "auth ref": [] } } , "us-gaap DebtDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtDisclosureTextBlock", "presentation": ["http://sintx.com/role/Debt"] , "lang": { "en-us": { "role": { "label": "Debt", "documentation": "The entire disclosure for information about short-term and long-term debt arrangements, which includes amounts of borrowings under each line of credit, note payable, commercial paper issue, bonds indenture, debenture issue, own-share lending arrangements and any other contractual agreement to repay funds, and about the underlying arrangements, rationale for a classification as long-term, including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in compliance with debt covenants, and other matters important to users of the financial statements, such as the effects of refinancing and noncompliance with debt covenants." } } } , "auth ref": ["r67", "r127", "r197", "r198", "r199", "r200", "r201", "r208", "r209", "r219", "r225", "r226", "r227", "r228", "r229", "r230", "r235", "r242", "r243", "r244", "r376"] } } , "us-gaap DebtInstrumentAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentAxis", "lang": { "en-us": { "role": { "label": "Debt Instrument [Axis]", "documentation": "Information by type of debt instrument, including, but not limited to, draws against credit facilities." } } } , "auth ref": ["r9", "r28", "r29", "r77", "r79", "r132", "r220", "r221", "r222", "r223", "r224", "r226", "r231", "r232", "r233", "r234", "r236", "r237", "r238", "r239", "r240", "r241", "r535", "r536", "r537", "r538", "r539", "r553", "r606", "r627", "r628", "r679", "r680"] } } } , "us-gaap DebtInstrumentFaceAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentFaceAmount", "crdr": "credit", "presentation": ["http://sintx.com/role/DebtDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Outstanding balance", "documentation": "Face (par) amount of debt instrument at time of issuance." } } } , "auth ref": ["r220", "r376", "r377", "r536", "r537", "r553"] } } , "us-gaap DebtInstrumentInterestRateStatedPercentage": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentInterestRateStatedPercentage", "presentation": ["http://sintx.com/role/DebtDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Debt interest rate", "documentation": "Contractual interest rate for funds borrowed, under the debt agreement." } } } , "auth ref": ["r31", "r221"] } } , "us-gaap DebtInstrumentNameDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentNameDomain", "presentation": ["http://sintx.com/role/DebtDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Debt instrument, payments terms", "documentation": "Description of the payment terms of the debt instrument (for example, whether periodic payments include principal and frequency of payments) and discussion about any contingencies associated with the payment." } } } , "auth ref": ["r24", "r32"] } } , "SINT DebtIssuedForPrepaidInsurance": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "DebtIssuedForPrepaidInsurance", "crdr": "credit", "presentation": ["http://sintx.com/role/StatementsOfCashFlows"] , "lang": { "en-us": { "role": { "label": "Debt issued for prepaid insurance", "documentation": "Debt issued for prepaid insurance." } } } , "auth ref": [] } } , "SINT DeemedDividendAndAccretionOfDiscountDilutedCalculation": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "DeemedDividendAndAccretionOfDiscountDilutedCalculation", "crdr": "credit", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"] , "lang": { "en-us": { "role": { "label": "Deemed dividend and accretion of a discount, Diluted Calculation", "documentation": "Deemed dividend and accretion of discount diluted calculation." } } } , "auth ref": [] } } , "SINT DeemedDividendAndAccretionOfDiscountEffectOfDilutiveWarrantSecurities": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "DeemedDividendAndAccretionOfDiscountEffectOfDilutiveWarrantSecurities", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"] , "lang": { "en-us": { "role": { "label": "Net loss per common share: Deemed dividend and accretion of a discount, Effect of Dilutive Warrant Securities", "documentation": "Deemed dividend and accretion of discount effect of dilutive warrant securities." } } } , "auth ref": [] } } , "SINT DeemedDividendAndAccretionOfDiscountsEffectOfDilutiveWarrantSecurities": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "DeemedDividendAndAccretionOfDiscountsEffectOfDilutiveWarrantSecurities", "crdr": "credit", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"] , "lang": { "en-us": { "role": { "label": "Deemed dividend and accretion of a discount, Effect of Dilutive Warrant Securities", "documentation": "Deemed dividend and accretion of discounts effect of dilutive warrant securities." } } } , "auth ref": [] } } , "us-gaap Depreciation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Depreciation", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 2.0 } } , "presentation": ["http://sintx.com/role/StatementsOfCashFlows"] , "lang": { "en-us": { "role": { "label": "Depreciation expense", "documentation": "The amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation." } } } , "auth ref": ["r3", "r17"] } } , "us-gaap DerivativeGainLossOnDerivativeNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DerivativeGainLossOnDerivativeNet", "crdr": "credit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap NetCashProvidedByUsedInOperatingActivities", "weight": -1.0, "order": 6.0 } } , "presentation": ["http://sintx.com/role/StatementsOfCashFlows"] , "lang": { "en-us": { "role": { "label": "Change in fair value of derivative liabilities", "documentation": "Derivative, Gain (Loss) on Derivative, Net", "documentation": "Amount of increase (decrease) in the fair value of derivatives recognized in the income statement." } } } , "auth ref": ["r668"] } } , "us-gaap DerivativeLiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DerivativeLiabilitiesCurrent", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap LiabilitiesCurrent", "weight": 1.0, "order": 4.0 } } , "presentation": ["http://sintx.com/role/BalanceSheets"] , "http://sintx.com/role/ScheduleOfFairValueMeasurementHierarchyOfDerivativeLiabilityDetails"] , "http://sintx.com/role/ScheduleOfFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails"] , "lang": { "en-us": { "role": { "label": "Derivative liabilities", "documentation": "Derivative liability", "documentation": "Beginning balance", "documentation": "Ending balance", "documentation": "Fair value, after the effects of master netting arrangements, of a financial liability or contract with one or more underlyings, notional amount or payment provision or both, and the contract can be net settled by means outside the contract or delivery of an asset, expected to be settled within one year or normal operating cycle, if longer. Includes assets not subject to a master netting arrangement and not elected to be offset." } } } , "auth ref": ["r112"] } } , "SINT DerivativeLiabilitiesForCommonStockWarrantsMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "DerivativeLiabilitiesForCommonStockWarrantsMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Derivative Liabilities for Common Stock Warrants [Member]", "documentation": "Derivative Liabilities for Common Stock Warrants [Member]" } } } , "auth ref": [] } } , "SINT DilutedDeemedDividendAndAccretionOfDiscountOnConversionOfPreferredStock": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "DilutedDeemedDividendAndAccretionOfDiscountOnConversionOfPreferredStock", "presentation": ["http://sintx.com/role/StatementsOfOperations"] , "lang": { "en-us": { "role": { "label": "Diluted - deemed dividend on conversion of preferred stock", "documentation": "Diluted deemed dividend and accretion of discount on conversion of preferred stock." } } } , "auth ref": [] } } , "SINT DilutiveDeemedDividendAndAccretionOfDiscountDilutedCalculation": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "DilutiveDeemedDividendAndAccretionOfDiscountDilutedCalculation", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"] , "lang": { "en-us": { "role": { "label": "Net loss per common share: Deemed dividend and accretion of a discount, Diluted Calculation", "documentation": "Dilutive deemed dividend and accretion of discount diluted calculation." } } } , "auth ref": [] } } , "us-gaap DilutiveSecuritiesEffectOnBasicEarningsPerShareOther": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DilutiveSecuritiesEffectOnBasicEarningsPerShareOther", "crdr": "credit", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"] , "lang": { "en-us": { "role": { "label": "Net loss attributable to common stockholders. Effect of Dilutive Warrant Securities", "documentation": "Amount of increase (decrease) to net income used for calculating diluted earnings per share (EPS), resulting from the assumed exercise of dilutive convertible securities excluding adjustments related to ESOP convertible preferred stock, stock options, and restrictive stock units." } } } , "auth ref": [] } } , "SINT DisclosureLeasesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://sintx.com/20240630", "localname": "DisclosureLeasesAbstract", "lang": { "en-us": { "role": { "label": "Leases", "documentation": "Schedule Of Operating Lease Future Minimum Payments" } } } , "auth ref": [] } } , "us-gaap DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock", "presentation": ["http://sintx.com/role/Stock-basedCompensation"] , "lang": { "en-us": { "role": { "label": "Stock-Based

Compensation", "documentation": "The entire disclosure for share-based payment arrangement." } } } , "auth ref": ["r281", "r284", "r311", "r312", "r314", "r546"] } } , "us-gaap DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract", "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement [Abstract]" } } } } , "auth ref": [] } , "dei DocumentAccountingStandard": { "xbrltype": "accountingStandardItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentAccountingStandard", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Accounting Standard", "documentation": "The basis of accounting the registrant has used to prepare the financial statements included in this filing. This can either be 'U.S. GAAP', 'International Financial Reporting Standards', or 'Other'." } } } } , "auth ref": ["r584"] } , "dei DocumentAnnualReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentAnnualReport", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Annual Report", "documentation": "Boolean flag that is true only for a form used as an annual report." } } } } , "auth ref": ["r582", "r584", "r585"] } , "dei DocumentFiscalPeriodFocus": { "xbrltype": "fiscalPeriodItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentFiscalPeriodFocus", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Fiscal Period Focus", "documentation": "Fiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-T statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY." } } } } , "auth ref": [] } , "dei DocumentFiscalYearFocus": { "xbrltype": "yearItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentFiscalYearFocus", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Fiscal Year Focus", "documentation": "This is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006." } } } } , "auth ref": [] } , "dei DocumentPeriodEndDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentPeriodEndDate", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Period End Date", "documentation": "For the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD." } } } } , "auth ref": [] } , "dei DocumentPeriodStartDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentPeriodStartDate", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Period Start Date", "documentation": "The start date of the period covered in the document, in YYYY-MM-DD format." } } } } , "auth ref": [] } , "dei DocumentQuarterlyReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentQuarterlyReport", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Quarterly Report", "documentation": "Boolean flag that is true only for a form used as a quarterly report." } } } } , "auth ref": ["r583"] } , "dei DocumentRegistrationStatement": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentRegistrationStatement", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Registration Statement", "documentation": "Boolean flag that is true only for a form used as a registration statement." } } } } , "auth ref": ["r571"] } , "dei DocumentShellCompanyEventDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentShellCompanyEventDate", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Shell Company Event Date", "documentation": "Date of event requiring a shell company report." } } } } , "auth ref": ["r584"] } , "dei DocumentShellCompanyReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentShellCompanyReport", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Shell Company Report", "documentation": "Boolean flag that is true for a Shell Company Report pursuant to section 13 or 15(d) of the Exchange Act." } } } } , "auth ref": ["r584"] } , "dei DocumentTransitionReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentTransitionReport", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Transition Report", "documentation": "Boolean flag that is true only for a form used as a transition report." } } } } , "auth ref": ["r586"] } , "dei DocumentType": { "xbrltype": "submissionTypeItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentType", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Document Type", "documentation": "The type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'." } } } } , "auth ref": [] } , "dei DocumentsIncorporatedByReferenceTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentsIncorporatedByReferenceTextBlock", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Documents Incorporated by Reference [Text Block]", "documentation": "Documents incorporated by reference." } } } } , "auth ref": ["r574"] } , "us-gaap EarningsPerShareAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareAbstract", "presentation": ["http://sintx.com/role/StatementsOfOperations"] , "lang": { "en-us": { "role": { "label": "Net loss per share u2013 basic and diluted", "documentation": "Earnings Per Share [Abstract]" } } } } , "auth ref": [] } , "us-gaap EarningsPerShareBasic": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareBasic", "presentation": ["http://sintx.com/role/StatementsOfOperations"] , "lang": { "en-us": { "role": { "label": "Basic u2013 attributable to common stockholders", "documentation": "The amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period." } } } } , "auth ref": ["r118", "r138", "r139", "r140", "r141", "r142", "r143", "r148", "r151", "r159", "r160", "r161", "r165", "r327", "r330", "r344", "r345", "r404", "r420", "r528"] } , "us-gaap EarningsPerShareBasicOtherDisclosuresAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareBasicOtherDisclosuresAbstract", "presentation": ["http://sintx.com/role/StatementsOfOperations"] , "lang": { "en-us": { "role": { "label": "Weighted average common shares outstanding." } } } } , "auth ref": [] } , "SINT EarningsPerShareBasicToCommonShareholders": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "EarningsPerShareBasicToCommonShareholders", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"] , "lang": { "en-us": { "role": { "label": "Net loss per common share: Net loss attributable to common stockholders, Basic Calculation", "documentation": "Earnings per share basic to common shareholders." } } } } , "auth ref": [] } , "us-gaap EarningsPerShareDiluted": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareDiluted", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails", "http://sintx.com/role/StatementsOfOperations"] , "lang": { "en-us": { "role": { "label": "Diluted u2013 attributable to common stockholders", "documentation": "The amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period." } } } } , "auth ref": ["r118", "r138", "r139", "r140", "r141", "r142", "r143", "r151", "r159", "r160", "r161", "r165", "r327", "r330", "r344", "r345", "r404", "r420", "r528"] } , "SINT EarningsPerShareDilutedNetIncomeLoss": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "EarningsPerShareDilutedNetIncomeLoss", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"] , "lang": { "en-us": { "role": { "label": "Net loss per common share: Net loss, Diluted Calculation", "documentation": "Earnings per share diluted net income loss." } } } } , "auth ref": [] } , "us-gaap EarningsPerShareTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareTextBlock", "presentation": ["http://sintx.com/role/BasicAndDilutedNetIncomeLossPerCommonShare"] , "lang": { "en-us": { "role": { "label": "Basic and Diluted Net Income (Loss) per Common Share", "documentation": "The entire disclosure for earnings per share." } } } } , "auth ref": ["r147", "r162", "r163", "r164"] } , "us-gaap EffectiveIncomeTaxRateReconciliationTaxContingenciesStateAndLocal": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EffectiveIncomeTaxRateReconciliationTaxContingenciesStateAndLocal", "presentation": ["http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "State and local income tax percentage", "documentation": "Percentage of the difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying the domestic federal statutory income tax rates to pretax income (loss) from continuing operations attributable to state and local income tax contingency." } } } } , "auth ref": ["r608", "r663"] } , "us-gaap EmployeeRelatedLiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeRelatedLiabilitiesCurrent", "crdr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfAccruedLiabilitiesDetails": { "parentTag": "us-gaap AccruedLiabilitiesCurrent", "weight": 1.0, "order": 1.0 } } , "presentation": ["http://sintx.com/role/ScheduleOfAccruedLiabilitiesDetails"] , "lang": { "en-us": { "role": { "label": "Payroll and related expense", "documentation": "Total of the carrying values as of the balance sheet date of obligations incurred through that date and payable for obligations related to services received from employees, such as accrued salaries and bonuses, payroll taxes and fringe benefits. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } } } , "auth ref": ["r29"] } , "us-gaap EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognized": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognized", "crdr": "debit", "presentation": ["http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails"] , "lang": { "en-us": { "role": { "label": "Unrecognized stock-based compensation", "documentation": "Amount of cost not yet recognized for nonvested award under share-based payment arrangement." } } } } , "auth ref": ["r313"] } , "us-gaap EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedPeriodForRecognition1": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedPeriodForRecognition1", "presentation": ["http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails"] , "lang": { "en-us": { "role": { "label": "Weighted average remaining of recognition", "documentation": "Weighted-average period over which cost not yet recognized is expected to be recognized for award under share-based payment arrangement, in PnYnMnDtnHnMns format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days." } } } } , "auth ref": ["r313"] } , "SINT EmployeeStockGrantsMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "EmployeeStockGrantsMember", "presentation": ["http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails"] , "lang": { "en-us": { "role": { "label": "Employee Stock Grants [Member]", "documentation": "Employee Stock Grants [Member]" } } } } , "auth ref": [] } , "us-gaap EmployeeStockOptionMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeStockOptionMember", "presentation": ["http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails", "http://sintx.com/role/Stock-basedCompensationDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement, Option [Member]", "documentation": "Share-based payment arrangement granting right, subject to vesting and other restrictions, to purchase or sell certain number of shares at predetermined price for specified period of time." } } } } , "auth ref": [] } , "dei EntityAddressAddressLine1": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressAddressLine1", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Address, Address Line One", "documentation": "Address Line 1 such as Attn, Building Name, Street Name." } } } } , "auth ref": [] } , "dei EntityAddressAddressLine2": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressAddressLine2", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Address, Address Line Two", "documentation": "Address Line 2 such as Street or Suite number." } } } } , "auth ref": [] } , "dei EntityAddressAddressLine3": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressAddressLine3", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Address, Address Line Three", "documentation": "Address Line 3 such as an Office Park." } } } } , "auth ref": [] } , "dei EntityAddressCityOrTown": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressCityOrTown", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Address, City or Town", "documentation": "Name of the City or Town." } } } } , "auth ref": [] } , "dei EntityAddressCountry": { "xbrltype": "countryCodeItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressCountry", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Address, Country", "documentation": "ISO 3166-1 alpha-2 country code." } } } } , "auth ref": [] } , "dei EntityAddressPostalZipCode": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressPostalZipCode", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Address, Postal Zip Code", "documentation": "Code for the postal or zip code." } } } } , "auth ref": [] } , "dei EntityAddressStateOrProvince": { "xbrltype": "stateOrProvinceItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressStateOrProvince", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Address, State or Province", "documentation": "Name of the state or province." } } } } , "auth ref": [] } , "dei EntityBankruptcyProceedingsReportingCurrent": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityBankruptcyProceedingsReportingCurrent", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Bankruptcy Proceedings, Reporting Current", "documentation": "For registrants involved in bankruptcy proceedings during the preceding five years, the value Yes indicates that the registrant has filed all documents and reports required to be filed by Section 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to the distribution of securities under a plan confirmed by a court; the value No indicates the registrant has not. Registrants not involved in bankruptcy proceedings during the preceding five years should not report this element." } } } } , "auth ref": ["r577"] } , "dei EntityCentralIndexKey": { "xbrltype": "centralIndexKeyItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCentralIndexKey", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Central Index Key", "documentation": "A unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK." } } } } , "auth ref": ["r573"] } , "dei EntityCommonStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCommonStockSharesOutstanding", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Common Stock, Shares Outstanding", "documentation": "Indicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument." } } } } , "auth ref": [] } , "dei EntityCurrentReportingStatus": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCurrentReportingStatus", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Current Reporting Status", "documentation": "Indicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } } } , "auth ref": [] } , "dei EntityDomain": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityDomain", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Entity Domain", "documentation": "All the names of the entities being reported upon in a document. Any legal structure used to conduct activities or to hold assets. Some examples of such structures are corporations, partnerships, limited liability companies, grantor trusts, and other trusts. This item does not include business and geographical segments which are included in the geographical or business segments domains." } } } } , "auth ref": [] } , "dei EntityEmergingGrowthCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityEmergingGrowthCompany", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity Emerging Growth Company", "documentation": "Indicate if registrant meets the emerging growth company criteria." } } } } , "auth ref": ["r573"] } , "dei EntityExTransitionPeriod": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityExTransitionPeriod", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Elected Not To Use the Extended Transition Period", "documentation": "Indicate if an emerging growth company has elected not to use the extended transition period for complying with any new or revised financial accounting standards." } } } } , "auth ref": ["r590"] } , "dei EntityFileNumber": { "xbrltype": "fileNumberItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityFileNumber", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Entity File Number", "documentation": "Commission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen." } } } } , "auth ref": [] } ,

"dei_EntityFilterCategory": { "xbrltype": "filerCategoryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityFilterCategory", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Filter Category", "documentation": "Indicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": ["r573"] }, "dei_EntityIncorporationStateCountryCode": { "xbrltype": "edgarStateCountryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityIncorporationStateCountryCode", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Incorporation, State or Country Code", "documentation": "Two-character EDGAR code representing the state or country of incorporation." } } }, "auth_ref": [] }, "dei_EntityInteractiveDataCurrent": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityInteractiveDataCurrent", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Interactive Data Current", "documentation": "Boolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files)." } } }, "auth_ref": ["r587"] }, "dei_EntityListingParValuePerShare": { "xbrltype": "perShareItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityListingParValuePerShare", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Listing, Par Value Per Share", "documentation": "The par value per share of security quoted in same currency as Trading currency. Example: '0.01.'" } } }, "auth_ref": [] }, "dei_EntityPrimarySicNumber": { "xbrltype": "sicNumberItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityPrimarySicNumber", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Primary SIC Number", "documentation": "Primary Standard Industrial Classification (SIC) Number for the Entity." } } }, "auth_ref": ["r585"] }, "dei_EntityPublicFloat": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityPublicFloat", "crdr": "credit", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Public Float", "documentation": "The aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold, or the average bid and asked price of such common equity, as of the last business day of the registrant's most recently completed second fiscal quarter." } } }, "auth_ref": [] }, "dei_EntityRegistrantName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityRegistrantName", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Registrant Name", "documentation": "The exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC." } } }, "auth_ref": ["r573"] }, "dei_EntityShellCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityShellCompany", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Shell Company", "documentation": "Boolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act." } } }, "auth_ref": ["r573"] }, "dei_EntitySmallBusiness": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntitySmallBusiness", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Small Business", "documentation": "Indicates that the company is a Smaller Reporting Company (SRC)." } } }, "auth_ref": ["r573"] }, "dei_EntityTaxIdentificationNumber": { "xbrltype": "employerIdItem", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityTaxIdentificationNumber", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Tax Identification Number", "documentation": "The Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS." } } }, "auth_ref": ["r573"] }, "dei_EntityVoluntaryFilers": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityVoluntaryFilers", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Voluntary Filers", "documentation": "Indicate 'Yes' or 'No' if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act." } } }, "auth_ref": [] }, "dei_EntityWellKnownSeasonedIssuer": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityWellKnownSeasonedIssuer", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Entity Well-known Seasoned Issuer", "documentation": "Indicate 'Yes' or 'No' if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Is used on Form Type: 10-K, 10-O, 8-K, 20-F, 6-K, 10-K/A, 10-O/A, 20-F/A, 6-K/A, N-CSR, N-O, N-IA." } } }, "auth_ref": ["r588"] }, "us-gaap_EquityAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EquityAbstract", "lang": { "en-us": { "role": { "label": "Equity [Abstract]", "documentation": "Equity Component Domain." } } }, "auth_ref": [] }, "us-gaap_EquityComponentDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EquityComponentDomain", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/ScheduleOffFairValueMeasurementHierarchyOfDerivativeLiabilityDetails", "http://sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails", "http://sintx.com/role/StatementsOfStockholdersEquity"], "lang": { "en-us": { "role": { "documentation": "Components of equity are the parts of the total Equity balance including that which is allocated to common, preferred, treasury stock, retained earnings, etc." } } }, "auth_ref": ["r6", "r97", "r115", "r116", "r117", "r133", "r134", "r135", "r137", "r142", "r144", "r146", "r167", "r188", "r189", "r196", "r260", "r320", "r321", "r324", "r325", "r326", "r328", "r329", "r330", "r336", "r337", "r338", "r339", "r340", "r341", "r343", "r369", "r370", "r371", "r372", "r373", "r374", "r378", "r380", "r388", "r419", "r431", "r432", "r433", "r443", "r503"] }, "srt_EquityMethodInvesteeNameDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "EquityMethodInvesteeNameDomain", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "auth_ref": ["r184", "r185", "r186", "r323", "r592", "r593", "r594", "r664", "r665", "r666", "r667"] }, "us-gaap_EquityMethodInvestmentOwnershipPercentage": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EquityMethodInvestmentOwnershipPercentage", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Beneficial ownership percentage", "documentation": "The percentage of ownership of common stock or equity participation in the investee accounted for under the equity method of accounting." } } }, "auth_ref": ["r184"] }, "dei_Extension": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "Extension", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Extension", "documentation": "Extension number for local phone number." } } }, "auth_ref": [] }, "us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisLineItems", "presentation": ["http://sintx.com/role/ScheduleOffFairValueMeasurementHierarchyOfDerivativeLiabilityDetails", "http://sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails"], "lang": { "en-us": { "role": { "label": "Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r347", "r348", "r361", "r548"] }, "us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisTable", "presentation": ["http://sintx.com/role/ScheduleOffFairValueMeasurementHierarchyOfDerivativeLiabilityDetails", "http://sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails"], "lang": { "en-us": { "role": { "label": "Fair Value, Recurring and Nonrecurring [Table]", "documentation": "Disclosure of information about asset and liability measured at fair value on recurring and nonrecurring basis." } } }, "auth_ref": ["r347", "r348", "r361", "r548"] }, "us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisValuationTechniquesLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisValuationTechniquesLineItems", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Fair Value Measurement Inputs and Valuation Techniques [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r349", "r350", "r351", "r549"] }, "us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisValuationTechniquesTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisValuationTechniquesTable", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Fair Value Measurement Inputs and Valuation Techniques [Table]", "documentation": "Disclosure of information about input and valuation technique used to measure fair value and change in valuation approach and technique for each separate class of asset and liability measured on recurring and nonrecurring basis." } } }, "auth_ref": ["r349", "r350", "r351", "r549"] }, "us-gaap_FairValueByFairValueHierarchyLevelAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueByFairValueHierarchyLevelAxis", "presentation": ["http://sintx.com/role/ScheduleOffFairValueMeasurementHierarchyOfDerivativeLiabilityDetails", "http://sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails"], "lang": { "en-us": { "role": { "label": "Fair Value Hierarchy and NAV [Axis]", "documentation": "Information by level within fair value hierarchy and fair value measured at net asset value per share as practical expedient." } } }, "auth_ref": ["r233", "r272", "r273", "r274", "r275", "r276", "r277", "r346", "r348", "r349", "r350", "r351", "r360", "r361", "r363", "r396", "r397", "r398", "r536", "r537", "r542", "r543", "r544", "r548", "r549"] }, "us-gaap_FairValueByLiabilityClassAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueByLiabilityClassAxis", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Liability Class [Axis]", "documentation": "Information by class of liability." } } }, "auth_ref": ["r352", "r353", "r354", "r355", "r356", "r357", "r362"] }, "us-gaap_FairValueByMeasurementFrequencyAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueByMeasurementFrequencyAxis", "presentation": ["http://sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails"], "lang": { "en-us": { "role": { "label": "Measurement Frequency [Axis]", "documentation": "Information by measurement frequency." } } }, "auth_ref": ["r347", "r348", "r349", "r351", "r548", "r673", "r677"] }, "us-gaap_FairValueDisclosuresAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueDisclosuresAbstract", "lang": { "en-us": { "role": { "label": "Fair Value Disclosures [Abstract]", "documentation": "Fair Value Inputs Level 1 Member." } } }, "auth_ref": [] }, "us-gaap_FairValueDisclosuresTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueDisclosuresTextBlock", "presentation": ["http://sintx.com/role/FairValueMeasurements"], "lang": { "en-us": { "role": { "label": "Fair Value Measurements", "documentation": "The entire disclosure for the fair value of financial instruments (as defined), including financial assets and financial liabilities (collectively, as defined), and the measurements of those instruments as well as disclosures related to the fair value of non-financial assets and liabilities. Such disclosures about the financial instruments, assets, and liabilities would include: (1) the fair value of the required items together with their carrying amounts (as appropriate); (2) for items for which it is not practicable to estimate fair value, disclosure would include: (a) information pertinent to estimating fair value (including, carrying amount, effective interest rate, and maturity, and (b) the reasons why it is not practicable to estimate fair value; (3) significant concentrations of credit risk including: (a) information about the activity, region, or economic characteristics identifying a concentration, (b) the maximum amount of loss the entity is exposed to based on the gross fair value of the related item, (c) policy for requiring collateral or other security and information as to accessing such collateral or security, and (d) the nature and brief description of such collateral or security; (4) quantitative information about market risks and how such risks are managed; (5) for items measured on both a recurring and nonrecurring basis information regarding the inputs used to develop the fair value measurement; and (6) for items presented in the financial statement for which fair value measurement is elected: (a) information necessary to understand the reasons for the election, (b) discussion of the effect of fair value changes on earnings, (c) a description of [similar groups] items for which the election is made and the relation thereof to the balance sheet, the aggregate carrying value of items included in the balance sheet that are not eligible for the election; (7) all other required (as defined) and desired information." } } }, "auth_ref": ["r356", "r358", "r359", "r360", "r363", "r364", "r365", "r366", "r367", "r403", "r548", "r550"] }, "us-gaap_FairValueInputsLevel1Member": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueInputsLevel1Member", "presentation": ["http://sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails"], "lang": { "en-us": { "role": { "label": "Fair Value, Inputs, Level 1 [Member]", "documentation": "Quoted prices in active markets for identical assets or liabilities that the reporting entity can access at the measurement date." } } }, "auth_ref": ["r233", "r272", "r277", "r348", "r361", "r396", "r542", "r543", "r544", "r548"] }, "us-gaap_FairValueInputsLevel2Member": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueInputsLevel2Member", "presentation": ["http://sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails"], "lang": { "en-us": { "role": { "label": "Fair Value, Inputs, Level 2 [Member]", "documentation": "Inputs other than quoted prices included within level 1 that are observable for an asset or liability, either directly or indirectly, including, but not limited to, quoted prices for similar assets or liabilities in active markets, or quoted prices for identical or similar assets or liabilities in inactive markets." } } }, "auth_ref": ["r233", "r272", "r277", "r348", "r349", "r361", "r397", "r536", "r537", "r542", "r543", "r544", "r548"] }, "us-gaap_FairValueInputsLevel3Member": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueInputsLevel3Member", "presentation": ["http://sintx.com/role/ScheduleOffFairValueMeasurementHierarchyOfDerivativeLiabilityDetails", "http://sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails"], "lang": { "en-us": { "role": { "label": "Fair Value, Inputs, Level 3 [Member]", "documentation": "Unobservable inputs that reflect the entity's own assumption about the assumptions market participants would use in pricing." } } }, "auth_ref": ["r233", "r272", "r273", "r274", "r275", "r276", "r277", "r348", "r349", "r350", "r351", "r361", "r398", "r536", "r537", "r542", "r543", "r544", "r548", "r549"] }, "us-gaap_FairValueLiabilitiesMeasuredOnRecurringBasisTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueLiabilitiesMeasuredOnRecurringBasisTextBlock", "presentation": ["http://sintx.com/role/FairValueMeasurementsTables"], "lang": { "en-us": { "role": { "label": "Schedule of Financial Liabilities Measured at Fair Value on Recurring Basis by Level", "documentation": "Tabular disclosure of liabilities, including [financial] instruments measured at fair value that are classified in stockholders' equity, if any, by class that are measured at fair value on a recurring basis. The disclosures contemplated herein include the fair value measurements at the reporting date by the level within the fair value hierarchy in which the fair value measurements in their entirety fall, segregating fair value measurements using quoted prices in active markets for identical assets (Level 1), significant other observable inputs (Level 2), and significant unobservable inputs (Level 3). Where the quoted price in an active market for the identical liability is not available, the Level 1 input is the quoted price of an identical liability when traded as an asset." } } }, "auth_ref": ["r670", "r671"] }, "us-gaap_FairValueLiabilitiesMeasuredOnRecurringBasisUnobservableInputReconciliationByLiabilityClassDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueLiabilitiesMeasuredOnRecurringBasisUnobservableInputReconciliationByLiabilityClassDomain", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "documentation": "Represents classes of liabilities measured and disclosed at fair value." } } }, "auth_ref": ["r352", "r353", "r354", "r355", "r356", "r357", "r362"] }, "us-gaap_FairValueLiabilitiesMeasuredOnRecurringBasisUnobservableInputReconciliationTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueLiabilitiesMeasuredOnRecurringBasisUnobservableInputReconciliationTextBlock", "presentation": ["http://sintx.com/role/FairValueMeasurementsTables"], "lang": { "en-us": { "role": { "label": "Schedule of Fair Value Measurement Hierarchy of Derivative Liability", "documentation": "Tabular disclosure of the fair value measurement of liabilities using significant unobservable inputs (Level 3), a reconciliation of the beginning and ending balances, separately presenting changes attributable to the following: (1) total gains or losses for the period (realized and unrealized), segregating those gains or losses included in earnings (or changes in net assets), and gains or losses recognized in other comprehensive income (loss) and a description of where those gains or losses included in earnings (or changes in net assets) are reported in the statement of income (or activities); (2) purchases, sales, issues, and settlements (each type disclosed separately); and (3) transfers in and transfers out of Level 3 (for example, transfers due to changes in the observability of significant inputs) by class of liability." } } }, "auth_ref": ["r352", "r357", "r362"] }, "us-gaap_FairValueMeasurementFrequencyDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueMeasurementFrequencyDomain", "presentation": [

```

"/sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails" }, "lang": { "en-us": { "role": { "documentation": "Measurement frequency." } } }, "auth_ref": [ "r347", "r348", "r349", "r351", "r548", "r673", "r677" ] }, "SINT_FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityExerciseOfWarrants": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityExerciseOfWarrants", "crdr": "credit", "presentation": [ "http://sintx.com/role/ScheduleOffFairValueMeasurementHierarchyOfDerivativeLiabilityDetails" ], "lang": { "en-us": { "role": { "label": "Exercise of warrants", "documentation": "Amount of exercise of warrants of financial instrument classified as a liability measured using unobservable inputs that reflect the entity's own assumption about the assumptions market participants would use in pricing." } } }, "auth_ref": [ ] }, "us-gaap_FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityIssues": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityIssues", "crdr": "credit", "presentation": [ "http://sintx.com/role/ScheduleOffFairValueMeasurementHierarchyOfDerivativeLiabilityDetails" ], "lang": { "en-us": { "role": { "negatedLabel": "Issuance of derivatives", "label": "Fair Value, Measurement with Unobservable Inputs Reconciliation, Recurring Basis, Liability, Issuances", "documentation": "Amount of issuances of financial instrument classified as a liability measured using unobservable inputs that reflect the entity's own assumption about the assumptions market participants would use in pricing." } } }, "auth_ref": [ "r355", "r362" ] }, "us-gaap_FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityPeriodIncreaseDecrease": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityPeriodIncreaseDecrease", "presentation": [ "http://sintx.com/role/ScheduleOffFairValueMeasurementHierarchyOfDerivativeLiabilityDetails" ], "lang": { "en-us": { "role": { "label": "Change in fair value", "documentation": "Amount of increase (decrease) of financial instrument classified as a liability measured using unobservable inputs that reflect the entity's own assumption about the assumptions market participants would use in pricing." } } }, "auth_ref": [ "r675", "r676" ] }, "SINT_FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityPeriodOther": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityPeriodOther", "crdr": "debit", "presentation": [ "http://sintx.com/role/ScheduleOffFairValueMeasurementHierarchyOfDerivativeLiabilityDetails" ], "lang": { "en-us": { "role": { "label": "Other", "documentation": "Fair value measurement with unobservable inputs reconciliation recurring basis liability period other." } } }, "auth_ref": [ ] }, "us-gaap_FairValueMeasurementsFairValueHierarchyDomain": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/role/ScheduleOffFairValueMeasurementHierarchyOfDerivativeLiabilityDetails", "presentation": [ "http://sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails" ], "lang": { "en-us": { "role": { "documentation": "Categories used to prioritize the inputs to valuation techniques to measure fair value." } } }, "auth_ref": [ "r233", "r272", "r273", "r274", "r275", "r276", "r277", "r346", "r348", "r349", "r350", "r351", "r360", "r361", "r363", "r396", "r397", "r398", "r536", "r537", "r542", "r543", "r544", "r548", "r549" ] }, "us-gaap_FairValueMeasurementsRecurringMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueMeasurementsRecurringMember", "presentation": [ "http://sintx.com/role/ScheduleOffFinancialLiabilitiesMeasuredAtFairValueOnRecurringBasisByLevelDetails" ], "lang": { "en-us": { "role": { "label": "Fair Value, Recurring [Member]", "documentation": "Frequent fair value measurement. Includes, but is not limited to, fair value adjustment for impairment of asset, liability or equity, frequently measured at fair value." } } }, "auth_ref": [ "r548", "r670", "r671", "r672", "r673", "r674", "r677" ] }, "SINT_FinancedInsurancePremium": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "FinancedInsurancePremium", "crdr": "debit", "presentation": [ "http://sintx.com/role/DebtDetailsNarrative" ], "lang": { "en-us": { "role": { "label": "Financed insurance premium", "documentation": "Financed insurance premium." } } }, "auth_ref": [ ] }, "us-gaap_GainLossOnSaleOfPropertyPlantEquipment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GainLossOnSaleOfPropertyPlantEquipment", "crdr": "credit", "calculation": [ "http://sintx.com/role/StatementsOfOperations" ], "parentTag": "us-gaap_NonoperatingIncomeExpense", "weight": 1.0, "order": 3.0 }, "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": -1.0, "order": 8.0 }, "presentation": [ "http://sintx.com/role/StatementsOfCashFlows", "http://sintx.com/role/StatementsOfOperations" ], "lang": { "en-us": { "role": { "label": "Gain on disposal of equipment", "negatedLabel": "Gain on disposal of equipment", "documentation": "Amount of gain (loss) on sale or disposal of property, plant and equipment assets, including oil and gas property and timber property." } } }, "auth_ref": [ "r3" ] }, "us-gaap_GeneralAndAdministrativeExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GeneralAndAdministrativeExpense", "crdr": "debit", "calculation": [ "http://sintx.com/role/StatementsOfOperations" ], "parentTag": "us-gaap_OperatingExpenses", "weight": 1.0, "order": 2.0 }, "presentation": [ "http://sintx.com/role/StatementsOfOperations" ], "lang": { "en-us": { "role": { "label": "General and administrative", "documentation": "The aggregate total of expenses of managing and administering the affairs of an entity, including affiliates of the reporting entity, which are not directly or indirectly associated with the manufacture, sale or creation of a product or product line." } } }, "auth_ref": [ "r52", "r488" ] }, "SINT_GrantAndContractExpenses": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "GrantAndContractExpenses", "crdr": "debit", "calculation": [ "http://sintx.com/role/StatementsOfOperations" ], "parentTag": "us-gaap_OperatingExpenses", "weight": 1.0, "order": 4.0 }, "presentation": [ "http://sintx.com/role/StatementsOfOperations" ], "lang": { "en-us": { "role": { "label": "Grant and contract expenses", "documentation": "Grant and contract expenses." } } }, "auth_ref": [ ] }, "SINT_GrantAndContractMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "GrantAndContractMember", "presentation": [ "http://sintx.com/role/StatementsOfOperations" ], "lang": { "en-us": { "role": { "label": "Grant and Contract [Member]", "documentation": "Grant and Contract [Member]" } } }, "auth_ref": [ ] }, "us-gaap_GrossProfit": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GrossProfit", "crdr": "credit", "calculation": [ "http://sintx.com/role/StatementsOfOperations" ], "parentTag": "us-gaap_OperatingIncomeLoss", "weight": 1.0, "order": 1.0 }, "presentation": [ "http://sintx.com/role/StatementsOfOperations" ], "lang": { "en-us": { "role": { "totalLabel": "Gross profit", "label": "Gross Profit", "documentation": "Aggregate revenue less cost of goods and services sold or operating expenses directly attributable to the revenue generation activity." } } }, "auth_ref": [ "r47", "r50", "r87", "r129", "r187", "r210", "r211", "r212", "r213", "r214", "r215", "r216", "r217", "r218", "r368", "r530", "r531", "r615", "r616", "r617", "r618", "r619", "r633" ] }, "us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest", "crdr": "credit", "calculation": [ "http://sintx.com/role/StatementsOfOperations" ], "parentTag": "us-gaap_NetIncomeLoss", "weight": 1.0, "order": 1.0 }, "presentation": [ "http://sintx.com/role/StatementsOfOperations" ], "lang": { "en-us": { "role": { "totalLabel": "Net loss before income taxes", "label": "Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest", "documentation": "Amount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest." } } }, "auth_ref": [ "r48", "r82", "r87", "r405", "r417", "r530", "r531", "r615", "r616", "r617", "r618", "r619" ] }, "us-gaap_IncomeLossFromContinuingOperationsPerBasicShare": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncomeLossFromContinuingOperationsPerBasicShare", "presentation": [ "http://sintx.com/role/StatementsOfOperations" ], "lang": { "en-us": { "role": { "label": "Basic lu2013 net loss", "documentation": "The amount of net income (loss) from continuing operations per each share of common stock or unit outstanding during the reporting period." } } }, "auth_ref": [ "r49", "r83", "r118", "r136", "r138", "r139", "r140", "r141", "r142", "r151", "r159", "r160", "r327", "r330", "r345", "r404", "r695" ] }, "us-gaap_IncomeLossFromContinuingOperationsPerDilutedShare": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncomeLossFromContinuingOperationsPerDilutedShare", "presentation": [ "http://sintx.com/role/StatementsOfOperations" ], "lang": { "en-us": { "role": { "label": "Diluted lu2013 net loss", "documentation": "The amount of net income (loss) derived from continuing operations during the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period." } } }, "auth_ref": [ "r49", "r118", "r136", "r138", "r139", "r140", "r141", "r142", "r151", "r159", "r160", "r161", "r330", "r345", "r404", "r695" ] }, "us-gaap_IncomeStatementAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncomeStatementAbstract", "auth_ref": [ ] }, "us-gaap_IncomeTaxExpenseBenefit": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncomeTaxExpenseBenefit", "crdr": "debit", "calculation": [ "http://sintx.com/role/StatementsOfOperations" ], "parentTag": "us-gaap_NetIncomeLoss", "weight": -1.0, "order": 2.0 }, "presentation": [ "http://sintx.com/role/StatementsOfOperations" ], "lang": { "en-us": { "role": { "label": "Provision for income taxes", "documentation": "Amount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations." } } }, "auth_ref": [ "r89", "r94", "r145", "r146", "r166", "r173", "r176", "r318", "r319", "r322", "r421", "r547" ] }, "us-gaap_IncreaseDecreaseInAccountsPayableAndAccruedLiabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncreaseDecreaseInAccountsPayableAndAccruedLiabilities", "crdr": "debit", "calculation": [ "http://sintx.com/role/StatementsOfCashFlows" ], "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 12.0 }, "presentation": [ "http://sintx.com/role/StatementsOfCashFlows" ], "lang": { "en-us": { "role": { "label": "Accounts payable and accrued liabilities", "documentation": "The increase (decrease) during the reporting period in the amounts payable to vendors for goods and services received and the amount of obligations and expenses incurred but not paid." } } }, "auth_ref": [ "r2" ] }, "us-gaap_IncreaseDecreaseInAccountsReceivable": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncreaseDecreaseInAccountsReceivable", "crdr": "credit", "calculation": [ "http://sintx.com/role/StatementsOfCashFlows" ], "parentTag": "us-gaap_NetCashProvid
```

"verboseLabel": "Inventory current", "documentation": "Gross amount, as of the balance sheet date, of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process." } } }, "auth_ref": ["r600"] }, "us-gaap_InventoryNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryNet", "cldr": "debit", "calculation": { "http://sintx.com/role/ScheduleOfComponentsOfInventoryDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://sintx.com/role/ScheduleOfComponentsOfInventoryDetails"], "lang": { "en-us": { "role": { "totalLabel": "Inventory net", "label": "Inventory Net", "documentation": "Amount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer." } } }, "auth_ref": ["r109", "r527", "r555"] }, "us-gaap_InventoryNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryNoncurrent", "cldr": "debit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap Assets", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://sintx.com/role/BalanceSheets"], "documentation": "Amount before valuation and LIFO reserves of merchandise or goods in the production process expected to be completed within one year or operating cycle, if longer." } } }, "auth_ref": ["r599"] }, "us-gaap_InventoryRawMaterialsAndSupplies": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryRawMaterialsAndSupplies", "cldr": "debit", "calculation": { "http://sintx.com/role/ScheduleOfComponentsOfInventoryDetails": { "parentTag": "us-gaap_InventoryNet", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://sintx.com/role/ScheduleOfComponentsOfInventoryDetails"], "lang": { "en-us": { "role": { "label": "Raw materials", "documentation": "Gross amount of unprocessed materials to be used in manufacturing or production process and supplies that will be consumed." } } }, "auth_ref": ["r600"] }, "us-gaap_InventoryWorkInProcess": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryWorkInProcess", "cldr": "debit", "calculation": { "http://sintx.com/role/ScheduleOfComponentsOfInventoryDetails": { "parentTag": "us-gaap_InventoryNet", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://sintx.com/role/ScheduleOfComponentsOfInventoryDetails"], "lang": { "en-us": { "role": { "label": "WIP", "documentation": "Amount before valuation and LIFO reserves of merchandise or goods in the production process expected to be completed within one year or operating cycle, if longer." } } }, "auth_ref": ["r599"] }, "us-gaap_LeaseContractualTermAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LeaseContractualTermAxis", "presentation": ["http://sintx.com/role/LeasesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Lease Contractual Term [Axis]", "documentation": "Information by contractual term of lease arrangement." } } }, "auth_ref": ["r387", "r595"] }, "us-gaap_LeaseContractualTermDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LeaseContractualTermDomain", "presentation": ["http://sintx.com/role/LeasesDetailsNarrative"], "lang": { "en-us": { "role": { "documentation": "Contractual term of lease arrangement." } } }, "auth_ref": ["r387", "r595"] }, "dei_LegalEntityAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "LegalEntityAxis", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "documentation": "The set of legal entities associated with a report." } } }, "auth_ref": ["r1"], "us-gaap_LesseeOperatingLeaseLiabilityMaturityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityMaturityTableTextBlock", "presentation": ["http://sintx.com/role/LeasesTables"], "lang": { "en-us": { "role": { "label": "Schedule of Operating Lease Future Minimum Payments", "documentation": "Tabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position." } } }, "auth_ref": ["r682"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDue", "cldr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails"], "lang": { "en-us": { "role": { "totalLabel": "Total future minimum lease payments", "label": "Lessee Operating Lease Liability, to be Paid", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease." } } }, "auth_ref": ["r385"] }, "SINT_LesseeOperatingLeaseLiabilityPaymentsDueAfterYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueAfterYearFour", "cldr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 6.0 } }, "presentation": ["http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails"], "lang": { "en-us": { "role": { "label": "Thereafter", "documentation": "Lessee operating lease liability payments due after year four." } } }, "auth_ref": [] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths", "cldr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails"], "lang": { "en-us": { "role": { "label": "2025", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r385"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearFour", "cldr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails"], "lang": { "en-us": { "role": { "label": "2028", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r385"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearThree": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearThree", "cldr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails"], "lang": { "en-us": { "role": { "label": "2027", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r385"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearTwo": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearTwo", "cldr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails"], "lang": { "en-us": { "role": { "label": "2026", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r385"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOffFiscalYear": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsRemainderOffFiscalYear", "cldr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails"], "lang": { "en-us": { "role": { "label": "2024", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year." } } }, "auth_ref": ["r682"] }, "us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityUndiscountedExcessAmount", "cldr": "credit", "presentation": ["http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails"], "lang": { "en-us": { "role": { "negatedLabel": "Less amounts representing interests", "label": "Lessee Operating Lease Liability Undiscounted Excess Amount", "documentation": "Amount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease." } } }, "auth_ref": ["r385"] }, "us-gaap_LesseeOperatingLeaseOptionToExtend": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseOptionToExtend", "presentation": ["http://sintx.com/role/LeasesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Lease term extend", "documentation": "Description of terms and conditions of option to extend lessee's operating lease. Includes, but is not limited to, information about option recognized as part of right-of-use asset and lease liability." } } }, "auth_ref": ["r383"] }, "us-gaap_LesseeOperatingLeaseTermOfContract": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseTermOfContract", "presentation": ["http://sintx.com/role/LeasesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Lease term", "documentation": "Term of lessee's operating lease, in 'PnYmNdThHnMns' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days." } } }, "auth_ref": ["r681"] }, "us-gaap_LesseeOperatingLeasesTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeasesTextBlock", "presentation": ["http://sintx.com/role/Leases"], "lang": { "en-us": { "role": { "verboseLabel": "Leases", "label": "Lessee Operating Leases [Text Block]", "documentation": "The entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability." } } }, "auth_ref": ["r379"] }, "us-gaap_Liabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Liabilities", "cldr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_LiabilitiesAndStockholdersEquity", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://sintx.com/role/BalanceSheets"], "lang": { "en-us": { "role": { "totalLabel": "Total liabilities", "label": "Liabilities", "documentation": "Amount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others." } } }, "auth_ref": ["r9", "r28", "r29", "r30", "r33", "r34", "r35", "r36", "r129", "r187", "r210", "r211", "r212", "r213", "r214", "r215", "r216", "r217", "r218", "r333", "r334", "r335", "r368", "r463", "r529", "r570", "r633", "r685", "r686"] }, "us-gaap_LiabilitiesAndStockholdersEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesAndStockholdersEquity", "cldr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://sintx.com/role/BalanceSheets"], "lang": { "en-us": { "role": { "totalLabel": "Total liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any." } } }, "auth_ref": ["r43", "r81", "r414", "r555", "r607", "r622", "r678"] }, "us-gaap_LiabilitiesAndStockholdersEquityAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesAndStockholdersEquityAbstract", "presentation": ["http://sintx.com/role/BalanceSheets"], "lang": { "en-us": { "role": { "label": "Liabilities and Stockholders Equity", "documentation": "Amount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any." } } }, "auth_ref": [] }, "us-gaap_LiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesCurrent", "cldr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_Liabilities", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://sintx.com/role/BalanceSheets"], "lang": { "en-us": { "role": { "totalLabel": "Total current liabilities", "label": "Liabilities Current", "documentation": "Total obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer." } } }, "auth_ref": ["r30", "r100", "r129", "r187", "r210", "r211", "r212", "r213", "r214", "r215", "r216", "r217", "r218", "r333", "r334", "r335", "r368", "r555", "r633", "r685", "r686"] }, "us-gaap_LiabilitiesCurrentAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesCurrentAbstract", "presentation": ["http://sintx.com/role/BalanceSheets"], "lang": { "en-us": { "role": { "label": "Current liabilities", "documentation": "Total obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer." } } }, "auth_ref": [] }, "SINT_LiquidityAndCapitalResourcesPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://sintx.com/20240630", "localname": "LiquidityAndCapitalResourcesPolicyTextBlock", "presentation": ["http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPolicies"], "lang": { "en-us": { "role": { "label": "Liquidity and Capital Resources", "documentation": "Liquidity And Capital Resources [Policy Text Block]" } } }, "auth_ref": [] }, "dei_LocalPhoneAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "LocalPhoneAxis", "presentation": ["http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Local Phone Number", "documentation": "Local phone number for entity." } } }, "auth_ref": [] }, "us-gaap_LongTermDebtCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtCurrent", "cldr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_LiabilitiesCurrent", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://sintx.com/role/BalanceSheets"], "lang": { "en-us": { "role": { "label": "Debt", "documentation": "Amount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as current. Excludes lease obligation." } } }, "auth_ref": ["r104"] }, "SINT_MaximGroupLLCMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "MaximGroupLLCMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "documentation": "Maxim Group LLC [Member]" } } }, "auth_ref": [] }, "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative", "lang": { "en-us": { "role": { "label": "Maxim Group LLC [Member]", "documentation": "Maxim Group LLC [Member]" } } }, "auth_ref": [] }, "srt_MaximumMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "MaximumMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails": { "xbrltype": "stringItemType", "nsuri": "http://sintx.com/role/EquityDetailsNarrative", "lang": { "en-us": { "role": { "label": "Maximum [Member]" } } }, "auth_ref": ["r204", "r205", "r206", "r207", "r280", "r315", "r351", "r401", "r429", "r430", "r436", "r455", "r456", "r509", "r510", "r511", "r512", "r513", "r521", "r522", "r533", "r540", "r545", "r549", "r550", "r551", "r552", "r557", "r635", "r687", "r688", "r689", "r690", "r691", "r692"] }, "us-gaap_MeasurementInputExpectedDividendRateMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MeasurementInputExpectedDividendRateMember", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Measurement Input, Expected Dividend Rate [Member]", "documentation": "Measurement input using expected dividend rate to be paid to holder of share per year." } } }, "auth_ref": ["r672", "r673", "r674"] }, "us-gaap_MeasurementInputExpectedTermMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MeasurementInputExpectedTermMember", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Measurement Input, Expected Term [Member]", "documentation": "Measurement input using period financial instrument is expected to be outstanding. Excludes maturity date." } } }, "auth_ref": ["r672", "r673", "r674"] }, "us-gaap_MeasurementInputOptionVolatilityMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MeasurementInputOptionVolatilityMember", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Measurement Input, Option Volatility [Member]", "documentation": "Measurement input using rate at which price of option increases (decreases) for given set of returns." } } }, "auth_ref": ["r672", "r673", "r674"] }, "us-gaap_MeasurementInputRiskFreeInterestRateMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MeasurementInputRiskFreeInterestRateMember", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Measurement Input, Risk Free Interest Rate [Member]", "documentation": "Measurement input using interest rate on instrument with zero risk of financial loss." } } }, "auth_ref": ["r672", "r673", "r674"] }, "us-gaap_MeasurementInputTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MeasurementInputTypeAxis", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Measurement Input Type [Axis]", "documentation": "Information by type of measurement input used to determine value of asset and liability." } } }, "auth_ref": ["r349", "r350", "r351", "r549"] }, "us-gaap_MeasurementInputTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MeasurementInputTypeDomain", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Measurement Input Type [Domain]", "documentation": "Information by type of measurement input used to determine value of asset and liability." } } }, "auth_ref": ["r349", "r350", "r351", "r549"] }, "srt_MinimumMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "MinimumMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails": { "xbrltype": "stringItemType", "nsuri": "http://sintx.com/role/EquityDetailsNarrative", "lang": { "en-us": { "role": { "label": "Minimum [Member]" } } }, "auth_ref": [] } }

"Minimum [Member]" } } }, "auth_ref": ["r204", "r205", "r206", "r207", "r280", "r315", "r351", "r401", "r429", "r430", "r436", "r455", "r456", "r509", "r510", "r511", "r512", "r513", "r521", "r522", "r533", "r540", "r545", "r549", "r550", "r551", "r557", "r635", "r687", "r688", "r689", "r690", "r691", "r692"] }, "us-gaap NetCashProvidedByUsedInFinancingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInFinancingActivities", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "weight": 1.0, "order": 3.0 } }, "presentation": { "http://sintx.com/role/StatementsOfCashFlows" } }, "lang": { "en-us": { "role": { "totalLabel": "Net cash provided by financing activities", "label": "Net Cash Provided by (Used in) Financing Activities", "documentation": "Amount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit." } } }, "auth_ref": ["r123"] }, "us-gaap NetCashProvidedByUsedInFinancingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInFinancingActivitiesAbstract", "presentation": { "http://sintx.com/role/StatementsOfCashFlows" } }, "lang": { "en-us": { "role": { "label": "Cash Flows From Financing Activities" } } }, "auth_ref": [] }, "us-gaap NetCashProvidedByUsedInInvestingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInInvestingActivities", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "weight": 1.0, "order": 2.0 } }, "presentation": { "http://sintx.com/role/StatementsOfCashFlows" } }, "lang": { "en-us": { "role": { "totalLabel": "Net cash used in investing activities", "label": "Net Cash Provided by (Used in) Investing Activities", "documentation": "Amount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets." } } }, "auth_ref": ["r123"] }, "us-gaap NetCashProvidedByUsedInInvestingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInInvestingActivitiesAbstract", "presentation": { "http://sintx.com/role/StatementsOfCashFlows" } }, "lang": { "en-us": { "role": { "label": "Cash Flows From Investing Activities" } } }, "auth_ref": [] }, "us-gaap NetCashProvidedByUsedInOperatingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInOperatingActivities", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "weight": 1.0, "order": 1.0 } }, "presentation": { "http://sintx.com/role/StatementsOfCashFlows" } }, "lang": { "en-us": { "role": { "totalLabel": "Net cash used in operating activities", "label": "Net Cash Provided by (Used in) Operating Activities", "documentation": "Amount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities." } } }, "auth_ref": ["r59", "r60", "r61"] }, "us-gaap NetCashProvidedByUsedInOperatingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInOperatingActivitiesAbstract", "presentation": { "http://sintx.com/role/StatementsOfCashFlows" } }, "lang": { "en-us": { "role": { "label": "Cash Flows From Operating Activities" } } }, "auth_ref": [] }, "SINT NetIncomeEffectOfDilutiveWarrantSecurities": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "NetIncomeEffectOfDilutiveWarrantSecurities", "crdr": "credit", "presentation": { "http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails" } }, "lang": { "en-us": { "role": { "label": "Net loss, effect of dilutive warrant securities", "documentation": "Net income, effect of dilutive warrant securities." } } }, "auth_ref": [] }, "SINT NetIncomeEffectOfDilutiveWarrantSecuritiesPerShare": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "NetIncomeEffectOfDilutiveWarrantSecuritiesPerShare", "presentation": { "http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails" } }, "lang": { "en-us": { "role": { "label": "Net loss per common share: Net loss attributable to common stockholders, effect of dilutive warrant securities", "documentation": "Net income, effect of dilutive warrant securities per share." } } }, "auth_ref": [] }, "us-gaap NetIncomeLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetIncomeLoss", "crdr": "credit", "calculation": { "http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap NetIncomeLossAvailableToCommonStockholdersBasic", "weight": 1.0, "order": 1.0 } }, "presentation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 1.0 } }, "presentation": { "http://sintx.com/role/StatementsOfCashFlows" } }, "lang": { "en-us": { "role": { "totalLabel": "Net loss", "label": "Net loss", "documentation": "Net loss, effect of dilutive warrant securities." } } }, "auth_ref": [] }, "us-gaap NetIncomeLossAvailableToCommonStockholdersBasic": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetIncomeLossAvailableToCommonStockholdersBasic", "crdr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": { "http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails", "http://sintx.com/role/StatementsOfOperations" } }, "lang": { "en-us": { "role": { "totalLabel": "Net loss attributable to common stockholders", "label": "Net loss attributable to common stockholders, Basic Calculation", "documentation": "Amount, after deduction of tax, noncontrolling interests, dividends on preferred stock and participating securities: of income (loss) available to common shareholders." } } }, "auth_ref": ["r120", "r138", "r139", "r140", "r141", "r148", "r149", "r158", "r161", "r330"] }, "us-gaap NetIncomeLossAvailableToCommonStockholdersDiluted": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetIncomeLossAvailableToCommonStockholdersDiluted", "crdr": "credit", "presentation": { "http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails" } }, "lang": { "en-us": { "role": { "label": "Net loss attributable to common stockholders, Diluted Calculation", "documentation": "Amount, after deduction of tax, noncontrolling interests, dividends on preferred stock and participating securities, and addition from assumption of issuance of common shares for dilutive potential common shares: of income (loss) available to common shareholders." } } }, "auth_ref": ["r120", "r150", "r153", "r154", "r155", "r156", "r158", "r161"] }, "SINT NetLossEffectOfDilutiveWarrantSecuritiesPerShare": { "xbrltype": "perShareItemType", "nsuri": "http://sintx.com/20240630", "localname": "NetLossEffectOfDilutiveWarrantSecuritiesPerShare", "presentation": { "http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails" } }, "lang": { "en-us": { "role": { "label": "Net loss per common share: Net loss, effect of dilutive warrant securities", "documentation": "Net loss, effect of dilutive warrant securities." } } }, "auth_ref": [] }, "us-gaap NewAccountingPronouncementsPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NewAccountingPronouncementsPolicyTextBlock", "presentation": { "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesPolicies" } }, "lang": { "en-us": { "role": { "label": "New Accounting Pronouncements Not Yet Adopted", "documentation": "Disclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact." } } }, "auth_ref": [] }, "dei NoTradingSymbolFlag": { "xbrltype": "trueItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "NoTradingSymbolFlag", "presentation": { "http://sintx.com/role/Cover" } }, "lang": { "en-us": { "role": { "label": "No Trading Symbol Flag", "documentation": "Boolean flag that is true only for a security having no trading symbol." } } }, "auth_ref": [] }, "SINT NonExecutiveMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "NonExecutiveMember", "presentation": { "http://sintx.com/role/Stock-basedCompensationDetailsNarrative" } }, "lang": { "en-us": { "role": { "label": "Non-Executive [Member]", "documentation": "Non-Executive [Member]" } } }, "auth_ref": [] }, "SINT NoncashOperatingLeaseExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "NoncashOperatingLeaseExpense", "crdr": "debit", "presentation": { "http://sintx.com/role/LeasesDetailsNarrative" } }, "lang": { "en-us": { "role": { "label": "Non-cash operating lease expense", "documentation": "Non cash operating lease expense." } } }, "auth_ref": [] }, "us-gaap NonoperatingIncomeExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NonoperatingIncomeExpense", "crdr": "credit", "calculation": { "http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest", "weight": 1.0, "order": 2.0 } }, "presentation": { "http://sintx.com/role/StatementsOfOperations" } }, "lang": { "en-us": { "role": { "totalLabel": "Total other income (expense), net", "label": "Nonoperating Income (Expense)", "documentation": "The aggregate amount of income or expense from ancillary business-related activities (that is to say, excluding major activities considered part of the normal operations of the business)." } } }, "auth_ref": ["r53"] }, "us-gaap NonoperatingIncomeExpenseAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NonoperatingIncomeExpenseAbstract", "presentation": { "http://sintx.com/role/StatementsOfOperations" } }, "lang": { "en-us": { "role": { "label": "Other income (expenses)", "documentation": "Offering costs associated with derivative warrant liabilities." } } }, "auth_ref": [] }, "SINT OfferingCostsAssociatedWithDerivativeWarrantLiabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "OfferingCostsAssociatedWithDerivativeWarrantLiabilities", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap NonoperatingIncomeExpense", "weight": -1.0, "order": 5.0 } }, "presentation": { "http://sintx.com/role/StatementsOfOperations" } }, "lang": { "en-us": { "role": { "negatedLabel": "Offering costs of derivative liabilities", "documentation": "Offering costs associated with derivative warrant liabilities." } } }, "auth_ref": [] }, "SINT OfferingExpensesPayable": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "OfferingExpensesPayable", "crdr": "credit", "presentation": { "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative" } }, "lang": { "en-us": { "role": { "label": "Offering expenses payable", "documentation": "Offering expenses payable." } } }, "auth_ref": [] }, "SINT OfferingFeesAndExpenses": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "OfferingFeesAndExpenses", "crdr": "debit", "presentation": { "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative" } }, "lang": { "en-us": { "role": { "label": "Offering fees and expenses", "documentation": "Offering fees and expenses." } } }, "auth_ref": [] }, "us-gaap OperatingExpenses": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingExpenses", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap OperatingIncomeLoss", "weight": -1.0, "order": 2.0 } }, "presentation": { "http://sintx.com/role/StatementsOfOperations" } }, "lang": { "en-us": { "role": { "totalLabel": "Total operating expenses", "label": "Operating Expenses", "documentation": "Generally recurring costs associated with normal operations except for the portion of these expenses which can be clearly related to production and included in cost of sales or services. Includes selling, general and administrative expense." } } }, "auth_ref": [] }, "us-gaap OperatingExpensesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingExpensesAbstract", "presentation": { "http://sintx.com/role/StatementsOfOperations" } }, "lang": { "en-us": { "role": { "label": "Operating expenses", "documentation": "Operating expenses." } } }, "auth_ref": [] }, "us-gaap OperatingIncomeLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingIncomeLoss", "crdr": "credit", "calculation": { "http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest", "weight": 1.0, "order": 1.0 } }, "presentation": { "http://sintx.com/role/StatementsOfOperations" } }, "lang": { "en-us": { "role": { "totalLabel": "Loss from operations", "label": "Operating Income (Loss)", "documentation": "The net result for the period of deducting operating expenses from operating revenues." } } }, "auth_ref": ["r87", "r530", "r615", "r616", "r617", "r618", "r619"] }, "us-gaap OperatingLeaseLiability": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseLiability", "crdr": "credit", "presentation": { "http://sintx.com/role/LeasesDetailsNarrative" } }, "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails" } }, "lang": { "en-us": { "role": { "totalLabel": "Present value of lease liability", "label": "Operating lease liability", "documentation": "Present value of lessee's discounted obligation for lease payments from operating lease." } } }, "auth_ref": ["r382"] }, "us-gaap OperatingLeaseLiabilityCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseLiabilityCurrent", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap LiabilitiesCurrent", "weight": 1.0, "order": 5.0 } }, "presentation": { "http://sintx.com/role/BalanceSheets" } }, "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails" } }, "lang": { "en-us": { "role": { "label": "Current portion of operating lease liability", "verboseLabel": "Current portion of operating lease liability", "documentation": "Present value of lessee's discounted obligation for lease payments from operating lease, classified as current." } } }, "auth_ref": ["r382"] }, "us-gaap OperatingLeaseLiabilityNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseLiabilityNoncurrent", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap Liabilities", "weight": 1.0, "order": 2.0 } }, "presentation": { "http://sintx.com/role/BalanceSheets" } }, "http://sintx.com/role/ScheduleOfOperatingLeaseFutureMinimumPaymentsDetails" } }, "lang": { "en-us": { "role": { "label": "Operating lease liability, net of current portion", "verboseLabel": "Long-term portion operating lease liability", "documentation": "Present value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent." } } }, "auth_ref": ["r382"] }, "us-gaap OperatingLeaseRightOfUseAsset": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseRightOfUseAsset", "crdr": "debit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap Assets", "weight": 1.0, "order": 5.0 } }, "presentation": { "http://sintx.com/role/BalanceSheets" } }, "http://sintx.com/role/LeasesDetailsNarrative" } }, "lang": { "en-us": { "role": { "label": "Operating lease right of use asset", "verboseLabel": "Operating lease right of use assets", "documentation": "Amount of lessee's right to use underlying asset under operating lease." } } }, "auth_ref": ["r381"] }, "us-gaap OperatingLeaseRightOfUseAssetAmortizationExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseRightOfUseAssetAmortizationExpense", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 3.0 } }, "presentation": { "http://sintx.com/role/StatementsOfCashFlows" } }, "lang": { "en-us": { "role": { "label": "Amortization of right of use asset", "documentation": "Amount of periodic reduction over lease term of carrying amount of right-of-use asset from operating lease." } } }, "auth_ref": ["r604"] }, "us-gaap OperatingLeaseWeightedAverageDiscountRatePercent": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseWeightedAverageDiscountRatePercent", "presentation": { "http://sintx.com/role/LeasesDetailsNarrative" } }, "lang": { "en-us": { "role": { "label": "Operating lease, weighted average discount rate, percent", "documentation": "Weighted average discount rate for operating lease calculated at point in time." } } }, "auth_ref": ["r384", "r554"] }, "us-gaap OrganizationConsolidationAndPresentationOffFinancialStatementsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OrganizationConsolidationAndPresentationOffFinancialStatementsAbstract", "presentation": { "http://sintx.com/role/ConsolidationAndPresentationOfFinancialStatementsAbstract" } }, "lang": { "en-us": { "role": { "label": "Organization, Consolidation and Presentation of Financial Statements [Abstract]" } } }, "auth_ref": [] }, "us-gaap OrganizationConsolidationAndPresentationOffFinancialStatementsDisclosureAndSignificantAccountingPoliciesTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OrganizationConsolidationAndPresentationOffFinancialStatementsDisclosureAndSignificantAccountingPoliciesTextBlock", "presentation": { "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPolicies" } }, "lang": { "en-us": { "role": { "label": "Organization and Summary of Significant Accounting Policies", "documentation": "The entire disclosure for the organization, consolidation and basis of presentation of financial statements disclosure, and significant accounting policies of the reporting entity. May be provided in more than one note to the financial statements, as long as users are provided with an understanding of (1) the significant judgments and assumptions made by an

enterprise in determining whether it must consolidate a VIE and/or disclose information about its involvement with a VIE, (2) the nature of restrictions on a consolidated VIE's assets reported by an enterprise in its statement of financial position, including the carrying amounts of such assets, (3) the nature of, and changes in, the risks associated with an enterprise's involvement with the VIE, and (4) how an enterprise's involvement with the VIE affects the enterprise's financial position, financial performance, and cash flows. Describes procedure if disclosures are provided in more than one note to the financial statements." } } } , "auth_ref": ["r25", "r62", "r63", "r74"] } , "us-gaap_OtherAccruedLiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherAccruedLiabilitiesCurrent", "crdr": "credit", "calculation": { "http://sintx.com/role/ScheduleOfAccruedLiabilitiesDetails": { "parentTag": "us-gaap_AccruedLiabilitiesCurrent", "weight": 1.0, "order": 3.0 } } , "presentation": { "http://sintx.com/role/ScheduleOfAccruedLiabilitiesDetails": { "lang": { "en-us": { "role": { "label": "Other", "label": "Other Accrued Liabilities, Current", "documentation": "Amount of expenses incurred but not yet paid classified as other, due within one year or the normal operating cycle, if longer." } } } , "auth_ref": ["r29"] } } , "us-gaap_OtherAssetsCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherAssetsCurrent", "crdr": "debit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 5.0 } } , "presentation": { "http://sintx.com/role/BalanceSheets": { "lang": { "en-us": { "role": { "label": "Other current assets", "documentation": "Amount of current assets classified as other." } } } , "auth_ref": ["r10", "r555"] } } , "us-gaap_OtherAssetsNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherAssetsNoncurrent", "crdr": "debit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 6.0 } } , "presentation": { "http://sintx.com/role/BalanceSheets": { "lang": { "en-us": { "role": { "label": "Other long-term assets", "documentation": "Amount of noncurrent assets classified as other." } } } , "auth_ref": ["r102"] } } , "us-gaap_OtherInvesteesMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherInvesteesMember", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Nonconsolidated Investees, Other [Member]", "documentation": "Investment in group of nonconsolidated investees classified as other." } } } , "auth_ref": ["r621"] } } , "us-gaap_OtherLiabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherLiabilities", "crdr": "credit", "presentation": { "http://sintx.com/role/DebtDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Due to related parties", "documentation": "Amount of liabilities classified as other." } } } , "auth_ref": ["r78", "r408", "r459", "r460", "r570", "r694", "r726"] } } , "us-gaap_OtherLiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherLiabilitiesCurrent", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_LiabilitiesCurrent", "weight": 1.0, "order": 6.0 } } , "presentation": { "http://sintx.com/role/BalanceSheets": { "lang": { "en-us": { "role": { "label": "Other current liabilities", "documentation": "Amount of liabilities classified as other, due within one year or the normal operating cycle, if longer." } } } , "auth_ref": ["r29", "r555"] } } , "us-gaap_OtherNonoperatingIncomeExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherNonoperatingIncomeExpense", "crdr": "credit", "calculation": { "http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap_NonoperatingIncomeExpense", "weight": 1.0, "order": 6.0 } } , "presentation": { "http://sintx.com/role/StatementsOfOperations": { "lang": { "en-us": { "role": { "label": "Other income, net", "documentation": "Amount of income (expense) related to nonoperating activities, classified as other." } } } , "auth_ref": ["r54"] } } , "dei_OtherReportingStandardItemNumber": { "xbrltype": "otherReportingStandardItemNumberItem", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "OtherReportingStandardItemNumber", "presentation": { "http://sintx.com/role/Cover": { "lang": { "en-us": { "role": { "label": "Other Reporting Standard Item Number", "documentation": "Item 17 or Item 18 specified when the basis of accounting is neither US GAAP nor IFRS." } } } , "auth_ref": ["r584"] } } , "SINT_ParValueOfCommonStockUponCashlessExerciseOfWarrants": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "ParValueOfCommonStockUponCashlessExerciseOfWarrants", "crdr": "credit", "presentation": { "http://sintx.com/role/StatementsOfCashFlows": { "lang": { "en-us": { "role": { "label": "Par value of common stock upon cashless exercise of warrants", "documentation": "Par value of common stock upon cashless exercise of warrants." } } } , "auth_ref": [] } } , "SINT_ParValueOfCommonStockUponExerciseOfPrefundedWarrants": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "ParValueOfCommonStockUponExerciseOfPrefundedWarrants", "crdr": "credit", "presentation": { "http://sintx.com/role/StatementsOfCashFlows": { "lang": { "en-us": { "role": { "label": "Par value of common stock upon exercise of prefunded warrants", "documentation": "Par value of common stock upon exercise of prefunded warrants." } } } , "auth_ref": [] } } , "us-gaap_PayablesAndAccrualsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PayablesAndAccrualsAbstract", "lang": { "en-us": { "role": { "label": "Payables and Accruals [Abstract]" } } } , "auth_ref": [] } } , "us-gaap_PaymentsForRepurchaseOfPreferredStockAndPreferenceStock": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsForRepurchaseOfPreferredStockAndPreferenceStock", "crdr": "credit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": -1.0, "order": 5.0 } } , "presentation": { "http://sintx.com/role/StatementsOfCashFlows": { "lang": { "en-us": { "role": { "label": "Redemption of Preferred Stock Series E", "label": "Payments for Repurchase of Preferred Stock and Preference Stock", "documentation": "The cash outflow to reacquire preferred stock during the period." } } } , "auth_ref": ["r57"] } } , "us-gaap_PaymentsOfCapitalDistribution": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsOfCapitalDistribution", "crdr": "credit", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Distribution amount", "documentation": "Cash outflow to owners or shareholders, excluding ordinary dividends. Includes special dividends." } } } , "auth_ref": ["r57"] } } , "us-gaap_PaymentsOfStockIssuanceCosts": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsOfStockIssuanceCosts", "crdr": "credit", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Offering costs", "documentation": "The cash outflow for cost incurred directly with the issuance of an equity security." } } } , "auth_ref": ["r12"] } } , "us-gaap_PaymentsToAcquirePropertyPlantAndEquipment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsToAcquirePropertyPlantAndEquipment", "crdr": "credit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": -1.0, "order": 1.0 } } , "presentation": { "http://sintx.com/role/StatementsOfCashFlows": { "lang": { "en-us": { "role": { "label": "Purchase of property and equipment", "label": "Payments to Acquire Property, Plant, and Equipment", "documentation": "The cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets." } } } , "auth_ref": ["r56"] } } , "SINT_PersonalLoansMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "PersonalLoansMember", "presentation": { "http://sintx.com/role/DebtDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Personal Loans [Member]", "documentation": "Personal Loans [Member]" } } } , "auth_ref": [] } } , "us-gaap_PlanNameAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PlanNameAxis", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Plan Name [Axis]", "documentation": "Information by plan name for share-based payment arrangement." } } } , "auth_ref": ["r637", "r638", "r639", "r640", "r641", "r642", "r643", "r644", "r645", "r646", "r647", "r648", "r649", "r650", "r651", "r652", "r653", "r654", "r655", "r656", "r657", "r658", "r659", "r660", "r661", "r662"] } } , "us-gaap_PlanNameDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PlanNameDomain", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "lang": { "en-us": { "role": { "documentation": "Plan name for share-based payment arrangement." } } } , "auth_ref": ["r637", "r638", "r639", "r640", "r641", "r642", "r643", "r644", "r645", "r646", "r647", "r648", "r649", "r650", "r651", "r652", "r653", "r654", "r655", "r656", "r657", "r658", "r659", "r660", "r661", "r662"] } } , "dei_PreCommencementIssuerTenderOffer": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "PreCommencementIssuerTenderOffer", "presentation": { "http://sintx.com/role/Cover": { "lang": { "en-us": { "role": { "label": "Pre-commencement Issuer Tender Offer", "documentation": "Boolean flag that is true when the Form 8-K filing is intended to satisfy the filing obligation of the registrant as pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act." } } } , "auth_ref": ["r578"] } } , "dei_PreCommencementTenderOffer": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "PreCommencementTenderOffer", "presentation": { "http://sintx.com/role/Cover": { "lang": { "en-us": { "role": { "label": "Pre-commencement Tender Offer", "documentation": "Boolean flag that is true when the Form 8-K filing is intended to satisfy the filing obligation of the registrant as pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act." } } } , "auth_ref": ["r580"] } } , "SINT_PreFundedWarrantMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "PreFundedWarrantMember", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Pre Funded Warrant [Member]", "documentation": "Pre Funded Warrant [Member]" } } } , "auth_ref": [] } } , "SINT_PreFundedWarrantUnitMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "PreFundedWarrantUnitMember", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Pre Funded Warrant Unit [Member]", "documentation": "Pre Funded Warrant Unit [Member]" } } } , "auth_ref": [] } } , "SINT_PreFundedWarrantsMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "PreFundedWarrantsMember", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Pre-funded Warrants [Member]", "documentation": "Pre-funded Warrants [Member]" } } } , "auth_ref": [] } } , "us-gaap_PreferredStockDividendsIncomeStatementImpact": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockDividendsIncomeStatementImpact", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap_NetIncomeLossAvailableToCommonStockholdersBasic", "weight": -1.0, "order": 2.0 } } , "presentation": { "http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails": { "http://sintx.com/role/StatementsOfOperations": { "lang": { "en-us": { "role": { "label": "Deemed dividend related to convertible preferred stock", "negatedTerseLabel": "Deemed dividend and accretion of a discount, Basic Calculation", "label": "Preferred Stock Dividends, Income Statement Impact", "documentation": "The amount of preferred stock dividends that is an adjustment to net income apportioned to common stockholders." } } } , "auth_ref": [] } } , "us-gaap_PreferredStockMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockMember", "presentation": { "http://sintx.com/role/StatementsOfStockholdersEquity": { "lang": { "en-us": { "role": { "label": "Preferred Stock [Member]", "documentation": "Preferred shares may provide a preferential dividend to the dividend on common stock and may take precedence over common stock in the event of a liquidation. Preferred shares typically represent an ownership interest in the company." } } } , "auth_ref": ["r561", "r562", "r565", "r566", "r567", "r568", "r725", "r728"] } } , "us-gaap_PreferredStockParOrStatedValuePerShare": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockParOrStatedValuePerShare", "presentation": { "http://sintx.com/role/BalanceSheetsParenthetical": { "lang": { "en-us": { "role": { "label": "Convertible preferred stock, par value", "documentation": "Face amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer." } } } , "auth_ref": ["r37", "r246"] } } , "us-gaap_PreferredStockSharesAuthorized": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockSharesAuthorized", "presentation": { "http://sintx.com/role/BalanceSheetsParenthetical": { "lang": { "en-us": { "role": { "label": "Convertible preferred stock, shares authorized", "documentation": "The maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws." } } } , "auth_ref": ["r37", "r465"] } } , "us-gaap_PreferredStockSharesIssued": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockSharesIssued", "presentation": { "http://sintx.com/role/BalanceSheetsParenthetical": { "lang": { "en-us": { "role": { "label": "Convertible preferred stock, shares issued", "documentation": "Number of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt." } } } , "auth_ref": ["r37", "r246"] } } , "us-gaap_PreferredStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockSharesOutstanding", "presentation": { "http://sintx.com/role/BalanceSheetsParenthetical": { "lang": { "en-us": { "role": { "label": "Convertible preferred stock, shares outstanding", "documentation": "Aggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased." } } } , "auth_ref": ["r37", "r465", "r483", "r728", "r729"] } } , "us-gaap_PreferredStockValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockValue", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 1.0 } } , "presentation": { "http://sintx.com/role/BalanceSheets": { "lang": { "en-us": { "role": { "label": "Preferred stock value", "documentation": "Aggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity." } } } , "auth_ref": ["r37", "r411", "r555"] } } , "us-gaap_PrepaidExpenseAndOtherAssetsCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PrepaidExpenseAndOtherAssetsCurrent", "crdr": "debit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 3.0 } } , "presentation": { "http://sintx.com/role/BalanceSheets": { "lang": { "en-us": { "role": { "label": "Prepaid expenses and other current assets", "documentation": "Amount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer." } } } , "auth_ref": ["r601"] } } , "SINT_ProceedsAllocatedToDerivativeLiabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "ProceedsAllocatedToDerivativeLiabilities", "crdr": "debit", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Proceeds allocated to derivative liabilities", "documentation": "Proceeds allocated to derivative liabilities." } } } , "auth_ref": [] } } , "us-gaap_ProceedsFromIssuanceOfInitialPublicOffering": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIssuanceOfInitialPublicOffering", "crdr": "debit", "presentation": { "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Gross proceeds from sale of stock", "documentation": "The cash inflow associated with the amount received from entity's first offering of stock to the public." } } } , "auth_ref": ["r1"] } } , "us-gaap_ProceedsFromIssuanceOfCommonStock": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIssuanceOfCommonStock", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": 1.0, "order": 2.0 } } , "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative": { "http://sintx.com/role/StatementsOfCashFlows": { "lang": { "en-us": { "role": { "label": "Gross proceeds common stock", "terseLabel": "Gross proceeds", "documentation": "The cash inflow from the additional capital contribution to the entity." } } } , "auth_ref": ["r1"] } } , "SINT_ProceedsFromIssuanceOfCommonStockAndPrefundedWarrants": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "ProceedsFromIssuanceOfCommonStockAndPrefundedWarrants", "crdr": "debit", "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "lang": { "en-us": { "role": { "label": "Gross proceeds from sale of stock", "documentation": "Gross proceeds from sale of stock", "documentation": "Proceeds from issuance of common stock and prefunded warrants." } } } , "auth_ref": [] } } , "SINT_ProceedsFromIssuanceOfCommonStockExerciseOfWarrants": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "ProceedsFromIssuanceOfCommonStockExerciseOfWarrants", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": 1.0, "order": 3.0 } } , "presentation": { "http://sintx.com/role/StatementsOfCashFlows": { "lang": { "en-us": { "role": { "label": "Proceeds from issuance of common stock in connection with exercise of warrants", "documentation": "Proceeds from issuance of common stock exercise of warrants." } } } , "auth_ref": [] } } , "us-gaap_ProceedsFromIssuanceOfWarrants": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIssuanceOfWarrants", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": 1.0, "order": 1.0 } } , "presentation": { "http://sintx.com/role/EquityDetailsNarrative": { "http://sintx.com/role/StatementsOfCashFlows": { "lang": { "en-us": { "role": { "label": "Proceeds from issuance of warrant derivative liabilities", "verboseLabel": "Proceeds from issuance of warrants", "documentation": "The cash inflow from issuance of rights to purchase common shares at predetermined price (usually issued together with corporate debt)." } } } , "auth_ref": ["r1"] } } } }

[], "us-gaap_ProceedsFromIssuanceOrSaleOfEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIssuanceOrSaleOfEquity", "crdr": "debit", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Aggregate offering price", "documentation": "The cash inflow from the issuance of common stock, preferred stock, treasury stock, stock options, and other types of equity." } } }, "auth_ref": ["r1", "r438"] }, "SINT_ProceedsFromNotesReceivableNetOfImputedInterest": { "xbrltype": "monetaryItemType", "nsuri": "http://sintx.com/20240630", "localname": "ProceedsFromNotesReceivableNetOfImputedInterest", "crdr": "debit", "calculation": ["http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://sintx.com/role/StatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Proceeds from notes receivable, net of imputed interest", "documentation": "Proceeds from notes receivable net of imputed interest." } } }, "auth_ref": [] }, "us-gaap_ProceedsFromSaleOfAvailableForSaleSecuritiesDebt": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromSaleOfAvailableForSaleSecuritiesDebt", "crdr": "debit", "presentation": ["http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Available for sale", "documentation": "Amount of cash inflow from sale of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale)." } } }, "auth_ref": ["r11", "r121", "r182", "r183"] }, "us-gaap_ProceedsFromSaleOfPropertyPlantAndEquipment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromSaleOfPropertyPlantAndEquipment", "crdr": "debit", "calculation": ["http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://sintx.com/role/StatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Proceeds from sale of property and equipment", "documentation": "The cash inflow from the sale of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale." } } }, "auth_ref": ["r55"] }, "us-gaap_ProductMember": { "xbrltype": "domainItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProductMember", "presentation": ["http://sintx.com/role/StatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Product [Member]", "documentation": "Article or substance produced by nature, labor or machinery." } } }, "auth_ref": ["r541"] }, "srt_ProductOrServiceAxis": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/srt/2024", "localname": "ProductOrServiceAxis", "presentation": ["http://sintx.com/role/StatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Product and Service [Axis]", "documentation": "Article or substance produced by nature, labor or machinery." } } }, "auth_ref": ["r177", "r402", "r422", "r423", "r424", "r425", "r426", "r427", "r428", "r525", "r541", "r556", "r557", "r558", "r559", "r560", "r631", "r632", "r636", "r696", "r697", "r698", "r699", "r700", "r701", "r702", "r703", "r704", "r705", "r706", "r707", "r708", "r709", "r710", "r711", "r712", "r713", "r714", "r715", "r716", "r717", "r718", "r719", "r720", "r721", "r722", "r723", "r724"] }, "srt_ProductsAndServicesDomain": { "xbrltype": "domainItem", "nsuri": "http://fasb.org/srt/2024", "localname": "ProductsAndServicesDomain", "presentation": ["http://sintx.com/role/StatementsOfOperations"], "auth_ref": ["r177", "r402", "r422", "r423", "r424", "r425", "r426", "r427", "r428", "r525", "r541", "r556", "r557", "r558", "r559", "r560", "r631", "r632", "r636", "r696", "r697", "r698", "r699", "r700", "r701", "r702", "r703", "r704", "r705", "r706", "r707", "r708", "r709", "r710", "r711", "r712", "r713", "r714", "r715", "r716", "r717", "r718", "r719", "r720", "r721", "r722", "r723", "r724"] }, "us-gaap_PropertyPlantAndEquipmentNet": { "xbrltype": "monetaryItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentNet", "crdr": "debit", "calculation": ["http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://sintx.com/role/BalanceSheets"], "lang": { "en-us": { "role": { "label": "Property and equipment, net", "documentation": "Amount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": ["r4", "r386", "r406", "r416", "r555"] }, "us-gaap_ProvisionForDoubtfulAccounts": { "xbrltype": "monetaryItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProvisionForDoubtfulAccounts", "crdr": "debit", "calculation": ["http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 7.0 } }, "presentation": ["http://sintx.com/role/StatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Recovery of written-off accounts receivable", "documentation": "Amount of expense (reversal of expense) for expected credit loss on accounts receivable." } } }, "auth_ref": ["r119", "r191"] }, "SINT_PublicFloatThreshold": { "xbrltype": "monetaryItem", "nsuri": "http://sintx.com/20240630", "localname": "PublicFloatThreshold", "crdr": "debit", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Public float threshold", "documentation": "Public float threshold." } } }, "auth_ref": [] }, "SINT_PublicOfferingUnits": { "xbrltype": "sharesItem", "nsuri": "http://sintx.com/20240630", "localname": "PublicOfferingUnits", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Public offering, units", "documentation": "Public offering units." } } }, "auth_ref": [] }, "srt_RangeAxis": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/srt/2024", "localname": "RangeAxis", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Statistical Measurement [Axis]", "documentation": "Statistical measurement." } } }, "auth_ref": ["r204", "r205", "r206", "r207", "r271", "r280", "r307", "r308", "r309", "r315", "r351", "r399", "r400", "r401", "r429", "r430", "r436", "r455", "r456", "r509", "r510", "r511", "r512", "r513", "r521", "r522", "r533", "r540", "r545", "r549", "r550", "r551", "r552", "r557", "r558", "r559", "r560", "r631", "r632", "r636", "r696", "r697", "r698", "r699", "r700", "r701", "r702", "r703", "r704", "r705", "r706", "r707", "r708", "r709", "r710", "r711", "r712", "r713", "r714", "r715", "r716", "r717", "r718", "r719", "r720", "r721", "r722", "r723", "r724"] }, "srt_RangeMember": { "xbrltype": "domainItem", "nsuri": "http://sintx.com/20240630", "localname": "RangeMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "auth_ref": ["r204", "r205", "r206", "r207", "r271", "r280", "r307", "r308", "r309", "r315", "r351", "r399", "r400", "r401", "r429", "r430", "r436", "r455", "r456", "r509", "r510", "r511", "r512", "r513", "r521", "r522", "r533", "r540", "r545", "r549", "r550", "r551", "r552", "r557", "r558", "r559", "r560", "r631", "r632", "r636", "r696", "r697", "r698", "r699", "r700", "r701", "r702", "r703", "r704", "r705", "r706", "r707", "r708", "r709", "r710", "r711", "r712", "r713", "r714", "r715", "r716", "r717", "r718", "r719", "r720", "r721", "r722", "r723", "r724"] }, "SINT_ReductionOfDerivativeLiabilityUponExerciseOfWarrants": { "xbrltype": "monetaryItem", "nsuri": "http://sintx.com/20240630", "localname": "ReductionOfDerivativeLiabilityUponExerciseOfWarrants", "crdr": "credit", "presentation": ["http://sintx.com/role/StatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Reduction of derivative liability upon exercise of warrants", "documentation": "Reduction of derivative liability upon exercise of warrants." } } }, "auth_ref": [] }, "SINT_ReimbursementOfExpensesAndLegalFees": { "xbrltype": "monetaryItem", "nsuri": "http://sintx.com/20240630", "localname": "ReimbursementOfExpensesAndLegalFees", "crdr": "debit", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Reimbursement of expenses and legal fees", "documentation": "Reimbursement of expenses and legal fees." } } }, "auth_ref": [] }, "us-gaap_RelatedPartyDomain": { "xbrltype": "domainItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RelatedPartyDomain", "presentation": ["http://sintx.com/role/DebtDetailsNarrative"], "lang": { "en-us": { "role": { "documentation": "Related and nonrelated parties. Related party includes, but is not limited to, affiliate, other entity for which investment is accounted for under equity method, trust for benefit of employee, principal owner, management, and member of immediate family and other party that may be prevented from pursuing separate interests because of control, significant influence, or ownership interest." } } }, "auth_ref": ["r180", "r279", "r389", "r390", "r409", "r415", "r458", "r459", "r460", "r461", "r462", "r482", "r484", "r508"] }, "us-gaap_RelatedPartyMember": { "xbrltype": "domainItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RelatedPartyMember", "presentation": ["http://sintx.com/role/DebtDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Related Party [Member]", "documentation": "Party related to reporting entity. Includes, but is not limited to, affiliate, entity for which investment is accounted for by equity method, trust for benefit of employee, and principal owner, management, and members of immediate family." } } }, "auth_ref": ["r130", "r131", "r389", "r390", "r391", "r392", "r409", "r415", "r458", "r459", "r460", "r461", "r462", "r482", "r484", "r508"] }, "us-gaap_RelatedPartyTransactionsByRelatedPartyAxis": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RelatedPartyTransactionsByRelatedPartyAxis", "presentation": ["http://sintx.com/role/DebtDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Related and Nonrelated Parties [Axis]", "documentation": "Information by related and nonrelated parties. Related party includes, but is not limited to, affiliate, other entity for which investment is accounted for under equity method, trust for benefit of employee, principal owner, management, and member of immediate family, and other party that may be prevented from pursuing separate interests because of control, significant influence, or ownership interest." } } }, "auth_ref": ["r180", "r279", "r389", "r390", "r409", "r415", "r458", "r459", "r460", "r461", "r462", "r482", "r484", "r508"] }, "us-gaap_RepaymentsOfBankDebt": { "xbrltype": "monetaryItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RepaymentsOfBankDebt", "crdr": "credit", "presentation": ["http://sintx.com/role/DebtDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Loan down payment", "documentation": "The cash outflow to settle a bank borrowing during the year." } } }, "auth_ref": ["r58"] }, "us-gaap_RepaymentsOfDebt": { "xbrltype": "monetaryItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RepaymentsOfDebt", "crdr": "credit", "calculation": ["http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": -1.0, "order": 4.0 } }, "presentation": ["http://sintx.com/role/StatementsOfCashFlows"], "lang": { "en-us": { "role": { "negatedLabel": "Payment on debt", "label": "Repayments of Debt", "documentation": "Amount of cash outflow for short-term and long-term debt. Excludes payment of lease obligation." } } }, "auth_ref": ["r602"] }, "us-gaap_ResearchAndDevelopmentExpense": { "xbrltype": "monetaryItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ResearchAndDevelopmentExpense", "crdr": "debit", "calculation": ["http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap_OperatingExpenses", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://sintx.com/role/StatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Research and development", "documentation": "Amount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity." } } }, "auth_ref": ["r317", "r523", "r531", "r693"] }, "us-gaap_RetainedEarningsAccumulatedDeficit": { "xbrltype": "monetaryItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetainedEarningsAccumulatedDeficit", "crdr": "credit", "calculation": ["http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://sintx.com/role/BalanceSheets", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Accumulated deficit", "negatedLabel": "Accumulated deficit", "documentation": "Amount of accumulated undistributed earnings (deficit)." } } }, "auth_ref": ["r40", "r69", "r413", "r434", "r435", "r442", "r466", "r555"] }, "us-gaap_RetainedEarningsMember": { "xbrltype": "domainItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetainedEarningsMember", "presentation": ["http://sintx.com/role/StatementsOfStockholdersEquity"], "lang": { "en-us": { "role": { "label": "Retained Earnings [Member]", "documentation": "Accumulated undistributed earnings (deficit)." } } }, "auth_ref": ["r97", "r133", "r134", "r135", "r137", "r142", "r144", "r146", "r188", "r189", "r196", "r320", "r321", "r324", "r325", "r326", "r328", "r329", "r330", "r336", "r338", "r339", "r341", "r343", "r378", "r380", "r431", "r433", "r443", "r728"] }, "us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax": { "xbrltype": "monetaryItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerExcludingAssessedTax", "crdr": "credit", "calculation": ["http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap_GrossProfit", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://sintx.com/role/StatementsOfOperations"], "lang": { "en-us": { "role": { "label": "Total revenue", "documentation": "Amount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise." } } }, "auth_ref": ["r85", "r86", "r166", "r171", "r172", "r174", "r176", "r177", "r178", "r179", "r269", "r270", "r402"] }, "us-gaap_RevenueFromContractWithCustomerPolicyTextBlock": { "xbrltype": "textBlockItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerPolicyTextBlock", "presentation": ["http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Grant and Contract Revenue", "documentation": "Disclosure of accounting policy for revenue from contract with customer." } } }, "auth_ref": ["r95", "r261", "r262", "r263", "r264", "r265", "r266", "r267", "r268", "r524"] }, "SINT_ReverseStockSplitPolicyTextBlock": { "xbrltype": "textBlockItem", "nsuri": "http://sintx.com/20240630", "localname": "ReverseStockSplitPolicyTextBlock", "presentation": ["http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Reverse Stock Split", "documentation": "Reverse Stock Split [Policy Text Block]" } } }, "auth_ref": [] }, "SINT_RightOfUseAssetForAmendedLeaseLiabilityIncrease": { "xbrltype": "monetaryItem", "nsuri": "http://sintx.com/20240630", "localname": "RightOfUseAssetForAmendedLeaseLiabilityIncrease", "crdr": "credit", "presentation": ["http://sintx.com/role/StatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Right of use asset for amended lease liability", "documentation": "Right of use asset for amended lease liability." } } }, "auth_ref": [] }, "SINT_RightOfUseAssetForLeaseLiability": { "xbrltype": "monetaryItem", "nsuri": "http://sintx.com/20240630", "localname": "RightOfUseAssetForLeaseLiability", "crdr": "credit", "presentation": ["http://sintx.com/role/StatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Right of use asset for lease liability", "documentation": "Right of use asset for lease liability." } } }, "auth_ref": [] }, "us-gaap_SaleOfStockDescriptionOfTransaction": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SaleOfStockDescriptionOfTransaction", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Sale of stock, description of transaction", "documentation": "Description of stock transaction which may include details of the offering (IPO, private placement), a description of the stock sold, percentage of subsidiary's or equity investee's stock sold, a description of the investors and whether the stock was issued in a business combination." } } }, "auth_ref": ["r5", "r23", "r75"] }, "us-gaap_SaleOfStockNameOfTransactionDomain": { "xbrltype": "domainItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SaleOfStockNameOfTransactionDomain", "presentation": ["http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails"], "lang": { "en-us": { "role": { "documentation": "Sale of the entity's stock, including, but not limited to, initial public offering (IPO) and private placement." } } }, "auth_ref": [] }, "us-gaap_SaleOfStockNumberOfSharesIssuedInTransaction": { "xbrltype": "sharesItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SaleOfStockNumberOfSharesIssuedInTransaction", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Stock issued in public offering", "verboseLabel": "Shares, sold", "documentation": "The number of shares issued or sold by the subsidiary or equity method investee per stock transaction." } } }, "auth_ref": [] }, "us-gaap_SaleOfStockPercentageOfOwnershipAfterTransaction": { "xbrltype": "percentItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SaleOfStockPercentageOfOwnershipAfterTransaction", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Cash placement fee percentage", "documentation": "Percentage of subsidiary's or equity investee's stock owned by parent company after stock transaction." } } }, "auth_ref": [] }, "us-gaap_SaleOfStockPricePerShare": { "xbrltype": "perShareItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SaleOfStockPricePerShare", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Sale of stock price", "documentation": "Per share amount received by subsidiary or equity investee for each share of common stock issued or sold in the stock transaction." } } }, "auth_ref": [] }, "us-gaap_ScheduleOfAccruedLiabilitiesTableTextBlock": { "xbrltype": "textBlockItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAccruedLiabilitiesTableTextBlock", "presentation": ["http://sintx.com/role/AccruedLiabilitiesTables"], "lang": { "en-us": { "role": { "label": "Schedule of Accrued Liabilities", "documentation": "Tabular disclosure of the components of accrued liabilities." } } }, "auth_ref": [] }, "us-gaap_ScheduleOfAssumptionsUsedTableTextBlock": { "xbrltype": "textBlockItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAssumptionsUsedTableTextBlock", "presentation": ["http://sintx.com/role/FairValueMeasurementsTables"], "lang": { "en-us": { "role": { "label": "Schedule of Assumptions used in Estimating Fair Value", "documentation": "Tabular disclosure of assumption used to determine benefit obligation and net periodic benefit cost of defined benefit plan. Includes, but is not limited to, discount rate, rate of compensation increase, expected long-term rate of return on plan assets and interest crediting rate." } } }, "auth_ref": ["r278"] }, "us-gaap_ScheduleOfCollaborativeArrangementsAndNoncollaborativeArrangementTransactionsTable": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfCollaborativeArrangementsAndNoncollaborativeArrangementTransactionsTable", "presentation": ["http://sintx.com/role/LeasesDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Collaborative Arrangement and Arrangement Other than Collaborative [Table]", "documentation": "Disclosure of information about collaborative arrangement and arrangement other than collaborative applicable to revenue-generating activity or

operations." } } } , "auth ref": ["r331"] } } , "us-gaap_ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock", "presentation": ["http://sintx.com/role/BasicAndDilutedNetIncomeLossPerCommonShareTables"] , "lang": { "en-us": { "role": { "label": "Schedule of Basic and Diluted Loss Per Share", "documentation": "Tabular disclosure of an entity's basic and diluted earnings per share calculations, including a reconciliation of numerators and denominators of the basic and diluted per-share computations for income from continuing operations." } } } , "auth ref": ["r614"] } , "srt_ScheduleOfEquityMethodInvestmentEquityMethodInvesteeNameAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ScheduleOfEquityMethodInvestmentEquityMethodInvesteeNameAxis", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Investment Name [Axis]" } } } , "auth ref": ["r184", "r185", "r186", "r323", "r592", "r593", "r594", "r664", "r665", "r666", "r667"] } , "us-gaap_ScheduleOfInventoryCurrentTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfInventoryCurrentTableTextBlock", "presentation": ["http://sintx.com/role/inventoriesTables"] , "lang": { "en-us": { "role": { "label": "Schedule of Components of Inventory", "documentation": "Tabular disclosure of the carrying amount as of the balance sheet date of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process." } } } , "auth ref": ["r10", "r44", "r45", "r46"] } , "us-gaap_ScheduleOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTable", "presentation": ["http://sintx.com/role/Stock-basedCompensationDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Schedule of Share-Based Compensation Arrangements by Share-Based Payment Award [Table]", "documentation": "Disclosure of information about share-based payment arrangement." } } } , "auth ref": ["r282", "r283", "r285", "r286", "r287", "r288", "r289", "r290", "r291", "r292", "r293", "r294", "r295", "r296", "r297", "r298", "r299", "r300", "r301", "r302", "r303", "r304", "r305", "r306", "r307", "r308", "r309", "r310"] } , "us-gaap_ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock", "presentation": ["http://sintx.com/role/Stock-basedCompensationTables"] , "lang": { "en-us": { "role": { "label": "Schedule of Stock Option Activity", "documentation": "Tabular disclosure for stock option plans. Includes, but is not limited to, outstanding awards at beginning and end of year, grants, exercises, forfeitures, and weighted-average grant date fair value." } } } , "auth ref": ["r7", "r8", "r71"] } , "us-gaap_ScheduleOfShortTermDebtTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfShortTermDebtTable", "presentation": ["http://sintx.com/role/DebtDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Short-Term Debt [Table]", "documentation": "Disclosure of information about short-term debt arrangement. Includes, but is not limited to, description of arrangement, lender, repayment term, weighted-average interest rate, borrowed amount, and description and amount of refinancing of short-term obligation when obligation is excluded from current liability." } } } , "auth ref": ["r28"] } , "us-gaap_ScheduleOfUnrecognizedCompensationCostNonvestedAwardsTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfUnrecognizedCompensationCostNonvestedAwardsTableTextBlock", "presentation": ["http://sintx.com/role/Stock-basedCompensationTables"] , "lang": { "en-us": { "role": { "label": "Schedule of Unrecognized Stock-based Compensation", "documentation": "Tabular disclosure of cost not yet recognized and weighted-average period over which cost is expected to be recognized for nonvested award under share-based payment arrangement." } } } , "auth ref": ["r73"] } , "dei_Security12bTitle": { "xbrltype": "securityTitleItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "Security12bTitle", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Title of 12(b) Security", "documentation": "Title of a 12(b) registered security." } } } , "auth ref": ["r572"] } , "dei_Security12gTitle": { "xbrltype": "securityTitleItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "Security12gTitle", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Title of 12(g) Security", "documentation": "Title of a 12(g) registered security." } } } , "auth ref": ["r576"] } , "dei_SecurityExchangeName": { "xbrltype": "edgarExchangeCodeItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "SecurityExchangeName", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Security Exchange Name", "documentation": "Name of the Exchange on which a security is registered." } } } , "auth ref": ["r575"] } , "dei_SecurityReportingObligation": { "xbrltype": "securityReportingObligationItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "SecurityReportingObligation", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Security Reporting Obligation", "documentation": "15(d), indicating whether the security has a reporting obligation under that section of the Exchange Act." } } } , "auth ref": ["r581"] } , "us-gaap_SellingAndMarketingExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SellingAndMarketingExpense", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfOperations": { "parentTag": "us-gaap_OperatingExpenses", "weight": 1.0, "order": 3.0 } } , "presentation": ["http://sintx.com/role/StatementsOfOperations"] , "lang": { "en-us": { "role": { "label": "Sales and marketing", "documentation": "The aggregate total amount of expenses directly related to the marketing or selling of products or services." } } } , "auth ref": [] } , "SINT_SeriesBConvertiblePreferredStockMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "SeriesBConvertiblePreferredStockMember", "presentation": ["http://sintx.com/role/BalanceSheets", "http://sintx.com/role/BalanceSheetsParentetical"] , "lang": { "en-us": { "role": { "label": "Series B Convertible Preferred Stock [Member]", "documentation": "Series B Convertible Preferred Stock [Member]" } } } , "auth ref": [] } , "SINT_SeriesCConvertiblePreferredStockMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "SeriesCConvertiblePreferredStockMember", "presentation": ["http://sintx.com/role/BalanceSheets", "http://sintx.com/role/BalanceSheetsParentetical"] , "lang": { "en-us": { "role": { "label": "Series C Convertible Preferred Stock [Member]", "documentation": "Series C Convertible Preferred Stock [Member]" } } } , "auth ref": [] } , "SINT_SeriesDConvertiblePreferredStockMember": { "xbrltype": "domainItemType", "nsuri": "http://sintx.com/20240630", "localname": "SeriesDConvertiblePreferredStockMember", "presentation": ["http://sintx.com/role/BalanceSheets", "http://sintx.com/role/BalanceSheetsParentetical"] , "lang": { "en-us": { "role": { "label": "Series D Convertible Preferred Stock [Member]", "documentation": "Series D Convertible Preferred Stock [Member]" } } } , "auth ref": [] } , "us-gaap_ShareBasedCompensation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensation", "crdr": "debit", "calculation": { "http://sintx.com/role/StatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 5.0 } } , "presentation": ["http://sintx.com/role/StatementsOfCashFlows"] , "lang": { "en-us": { "role": { "verboseLabel": "Stock based compensation", "label": "Share-Based Payment Arrangement, Noncash Expense", "documentation": "Amount of noncash expense for share-based payment arrangement." } } } , "auth ref": ["r2"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems", "presentation": ["http://sintx.com/role/Stock-basedCompensationDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } } , "auth ref": ["r282", "r283", "r285", "r286", "r287", "r288", "r289", "r290", "r291", "r292", "r293", "r294", "r295", "r296", "r297", "r298", "r299", "r300", "r301", "r302", "r303", "r304", "r305", "r306", "r307", "r308", "r309", "r310"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableNumber": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableNumber", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "periodEndLabel": "Options, exercisable at end", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Number", "documentation": "The number of shares into which fully or partially vested stock options outstanding as of the balance sheet date can be currently converted under the option plan." } } } , "auth ref": ["r290"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableWeightedAverageExercisePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableWeightedAverageExercisePrice", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "periodEndLabel": "Weighted average exercise price, exercisable at end of period", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Weighted Average Exercise Price", "documentation": "The weighted-average price as of the balance sheet date at which grantees can acquire the shares reserved for issuance on vested portions of options outstanding and currently exercisable under the stock option plan." } } } , "auth ref": ["r290"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExpirationsInPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExpirationsInPeriod", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "negatedLabel": "Options, expired", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Expirations in Period", "documentation": "Number of options or other stock instruments for which the right to exercise has lapsed under the terms of the plan agreements." } } } , "auth ref": ["r295"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresInPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresInPeriod", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "label": "Options, forfeited", "documentation": "The number of shares under options that were cancelled during the reporting period as a result of occurrence of a terminating event specified in contractual agreements pertaining to the stock option plan." } } } , "auth ref": ["r294"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriod", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "label": "Options, granted", "documentation": "Net number of share options (or share units) granted during the period." } } } , "auth ref": ["r644"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross", "presentation": ["http://sintx.com/role/Stock-basedCompensationDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Options, grants in period, gross", "documentation": "Gross number of share options (or share units) granted during the period." } } } , "auth ref": ["r292"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingIntrinsicValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingIntrinsicValue", "crdr": "debit", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "periodStartLabel": "Intrinsic value, outstanding at beginning of period", "periodEndLabel": "Intrinsic value, outstanding at end of period", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Intrinsic Value", "documentation": "Amount by which the current fair value of the underlying stock exceeds the exercise price of options outstanding." } } } , "auth ref": ["r21"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "periodStartLabel": "Options, outstanding at beginning", "periodEndLabel": "Options, outstanding at end", "label": "Options, outstanding", "documentation": "Number of options outstanding, including both vested and non-vested options." } } } , "auth ref": ["r288", "r289"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageExercisePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageExercisePrice", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "periodStartLabel": "Weighted average exercise price, vested and expected to vest at end", "label": "Weighted average exercise price, outstanding at end of period", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Exercise Price", "documentation": "Weighted average price at which grantees can acquire the shares reserved for issuance under the stock option plan." } } } , "auth ref": ["r288", "r289"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingAggregateIntrinsicValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingAggregateIntrinsicValue", "crdr": "debit", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "periodEndLabel": "Intrinsic value, vested and expected to vest end of period", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Aggregate Intrinsic Value", "documentation": "Amount by which current fair value of underlying stock exceeds exercise price of fully vested and expected to vest options outstanding. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } } , "auth ref": ["r304"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingAggregateIntrinsicValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingAggregateIntrinsicValue", "crdr": "debit", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "periodEndLabel": "Intrinsic value, vested and expected to vest at end", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Number", "documentation": "Number of fully vested and expected to vest options outstanding that can be converted into shares under option plan. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } } , "auth ref": ["r304"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingWeightedAverageExercisePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingWeightedAverageExercisePrice", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "periodEndLabel": "Weighted average exercise price, vested and expected to vest at end", "label": "Weighted average exercise price, at which option holders acquired shares when converting their stock options into shares." } } } , "auth ref": ["r293"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExpirationsInPeriodWeightedAverageExercisePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExpirationsInPeriodWeightedAverageExercisePrice", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "label": "Weighted average exercise price, exercised", "documentation": "Weighted average price at which option holders acquired shares when converting their stock options into shares." } } } , "auth ref": ["r293"] } , "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExpirationsInPeriodWeightedAverageExercisePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExpirationsInPeriodWeightedAverageExercisePrice", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "label": "Weighted average exercise price, expired", "documentation": "Weighted average price at

which grantees could have acquired the underlying shares with respect to stock options of the plan that expired." } } } , "auth_ref": ["r295"] } } , "us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsForfeituresInPeriodWeightedAverageExercisePrice": { "xbrltype": "perShareItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsForfeituresInPeriodWeightedAverageExercisePrice", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "label": "Weighted average exercise price, forfeited", "documentation": "Weighted average price at which grantees could have acquired the underlying shares with respect to stock options that were terminated." } } } , "auth_ref": ["r294"] } } , "us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageExercisePrice": { "xbrltype": "perShareItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageExercisePrice", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "label": "Weighted average exercise price, granted", "documentation": "Weighted average per share amount at which grantees can acquire shares of common stock by exercise of options." } } } , "auth_ref": ["r292"] } } , "us-gaap_SharePrice": { "xbrltype": "perShareItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharePrice", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Public offering price", "documentation": "Price of a single share of a number of saleable stocks of a company." } } } , "auth_ref": [] } } , "us-gaap_ShareBasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableIntrinsicValue1": { "xbrltype": "monetaryItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableIntrinsicValue1", "crdr": "debit", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "periodEndLabel": "Intrinsic value, exercisable at end of period", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Intrinsic Value", "documentation": "Amount of difference between fair value of the underlying shares reserved for issuance and exercise price of vested portions of options outstanding and currently exercisable." } } } , "auth_ref": ["r21"] } } , "us-gaap_ShareBasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableWeightedAverageRemainingContractualTerm1": { "xbrltype": "durationItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableWeightedAverageRemainingContractualTerm1", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "label": "Weighted average remaining contractual terms (years), exercisable", "documentation": "Weighted average remaining contractual term for vested portions of options outstanding and currently exercisable or convertible, in 'PnYnMnDnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days." } } } , "auth_ref": ["r21"] } } , "us-gaap_ShareBasedCompensationArrangementBySharebasedPaymentAwardOptionsOutstandingWeightedAverageRemainingContractualTerm2": { "xbrltype": "durationItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsOutstandingWeightedAverageRemainingContractualTerm2", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "label": "Weighted average remaining contractual terms (years), outstanding at ending", "documentation": "Weighted average remaining contractual term for option awards outstanding, in 'PnYnMnDnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days." } } } , "auth_ref": ["r72"] } } , "us-gaap_ShareBasedCompensationArrangementBySharebasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingWeightedAverageRemainingContractualTerm1": { "xbrltype": "durationItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingWeightedAverageRemainingContractualTerm1", "presentation": ["http://sintx.com/role/ScheduleOfStockOptionActivityDetails"] , "lang": { "en-us": { "role": { "label": "Weighted average remaining contractual terms (years), vested and expected to vest", "documentation": "Weighted average remaining contractual term for fully vested and expected to vest options outstanding, in 'PnYnMnDnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } } , "auth_ref": ["r304"] } } , "us-gaap_SharesIssuedPricePerShare": { "xbrltype": "perShareItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharesIssuedPricePerShare", "presentation": ["http://sintx.com/role/EquityDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Exercise price", "documentation": "Per share or per unit amount of equity securities issued." } } } , "auth_ref": [] } } , "us-gaap_SharesOutstanding": { "xbrltype": "sharesItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharesOutstanding", "presentation": ["http://sintx.com/role/StatementsOfStockholdersEquity"] , "lang": { "en-us": { "role": { "periodStartLabel": "Balance, shares", "periodEndLabel": "Balance, shares", "label": "Shares, Outstanding", "documentation": "Number of shares issued which are neither cancelled nor held in the treasury." } } } , "auth_ref": [] } } , "us-gaap_ShortTermDebtLineItems": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShortTermDebtLineItems", "presentation": ["http://sintx.com/role/DebtDetailsNarrative"] , "lang": { "en-us": { "role": { "label": "Short-Term Debt [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } } , "auth_ref": [] } } , "dei_SolicitingMaterial": { "xbrltype": "booleanItem", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "SolicitingMaterial", "presentation": ["http://sintx.com/role/Cover"] , "lang": { "en-us": { "role": { "label": "Soliciting Material", "documentation": "Boolean flag that is true when the Form 8-K filing is intended to satisfy the filing obligation of the registrant as soliciting material pursuant to Rule 14a-12 under the Exchange Act." } } } , "auth_ref": ["r579"] } } , "us-gaap_StatementClassOfStockAxis": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementClassOfStockAxis", "presentation": ["http://sintx.com/role/BalanceSheets"] , "lang": { "en-us": { "role": { "label": "Equity Components [Axis]", "documentation": "Information by component of equity." } } } , "auth_ref": ["r6", "r38", "r41", "r42", "r97", "r115", "r116", "r117", "r133", "r134", "r135", "r137", "r142", "r144", "r146", "r167", "r188", "r189", "r196", "r260", "r320", "r321", "r324", "r325", "r326", "r328", "r329", "r330", "r336", "r337", "r338", "r339", "r340", "r341", "r343", "r369", "r370", "r371", "r372", "r373", "r374", "r378", "r380", "r388", "r419", "r431", "r432", "r433", "r443", "r503"] } } , "us-gaap_StatementLineItems": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementLineItems", "presentation": ["http://sintx.com/role/BalanceSheets"] , "lang": { "en-us": { "role": { "label": "Equity Components [Axis]", "documentation": "Information by component of equity." } } } , "auth_ref": ["r6", "r38", "r41", "r42", "r97", "r115", "r116", "r117", "r133", "r134", "r135", "r137", "r142", "r144", "r146", "r167", "r188", "r189", "r196", "r260", "r320", "r321", "r324", "r325", "r326", "r328", "r329", "r330", "r336", "r337", "r338", "r339", "r340", "r341", "r343", "r369", "r370", "r371", "r372", "r373", "r374", "r378", "r380", "r388", "r419", "r431", "r432", "r433", "r443", "r503"] } } , "us-gaap_StatementLineItems": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementLineItems", "presentation": ["http://sintx.com/role/BalanceSheets"] , "lang": { "en-us": { "role": { "label": "Equity Components [Axis]", "documentation": "Information by component of equity." } } } , "auth_ref": ["r6", "r38", "r41", "r42", "r97", "r115", "r116", "r117", "r133", "r134", "r135", "r137", "r142", "r144", "r146", "r167", "r188", "r189", "r196", "r260", "r320", "r321", "r324", "r325", "r326", "r328", "r329", "r330", "r336", "r337", "r338", "r339", "r340", "r341", "r343", "r369", "r370", "r371", "r372", "r373", "r374", "r378", "r380", "r388", "r419", "r431", "r432", "r433", "r443", "r503"] } } , "us-gaap_StatementOfCashFlowsAbstract": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementOfCashFlowsAbstract", "lang": { "en-us": { "role": { "label": "Statement of Cash Flows [Abstract]", "documentation": "Statement of cash flows." } } } , "auth_ref": [] } } , "us-gaap_StatementOfFinancialPositionAbstract": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementOfFinancialPositionAbstract", "auth_ref": [] } } , "us-gaap_StatementOfStockholdersEquityAbstract": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementOfStockholdersEquityAbstract", "auth_ref": [] } } , "us-gaap_StatementTable": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementTable", "presentation": ["http://sintx.com/role/BalanceSheets", "http://sintx.com/role/BalanceSheetsParenthetical", "http://sintx.com/role/StatementsOfOperations", "http://sintx.com/role/StatementsOfStockholdersEquity"] , "lang": { "en-us": { "role": { "label": "Statement [Table]", "documentation": "Disclosure of information about statement of comprehensive income, income, other comprehensive income, financial position, cash flows, and shareholders' equity." } } } , "auth_ref": ["r133", "r134", "r135", "r167", "r180", "r380", "r402", "r437", "r454", "r457", "r458", "r459", "r460", "r461", "r462", "r465", "r468", "r469", "r470", "r471", "r472", "r473", "r474", "r475", "r476", "r478", "r479", "r480", "r481", "r482", "r484", "r487", "r488", "r489", "r490", "r491", "r492", "r493", "r494", "r495", "r496", "r497", "r498", "r499", "r500", "r503", "r564"] } } , "us-gaap_StatementOfCashFlowsAbstract": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementOfCashFlowsAbstract", "lang": { "en-us": { "role": { "label": "Statement of Cash Flows [

"StockRedeemedOrCalledDuringPeriodValue": { "crdr": "debit", "presentation": ["http://sintx.com/role/StatementsOfStockholdersEquity"], "lang": { "en-us": { "role": { "label": "Redemption of preferred stock", "documentation": "Equity impact of the value of stock bought back by the entity at the exercise price or redemption price." } } }, "auth ref": ["r6"] }, "us-gaap_StockholdersEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquity", "crdr": "credit", "calculation": { "http://sintx.com/role/BalanceSheets": { "parentTag": "us-gaap_LiabilitiesAndStockholdersEquity", "weight": 1.0, "order": 3.0 }, "presentation": ["http://sintx.com/role/BalanceSheets", "http://sintx.com/role/StatementsOfStockholdersEquity"], "lang": { "en-us": { "role": { "totalLabel": "Total stockholders equity", "periodStartLabel": "Balance", "periodEndLabel": "Balance", "label": "Equity, Attributable to Parent", "documentation": "Amount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest." } } }, "auth ref": ["r38", "r41", "r42", "r64", "r467", "r483", "r504", "r505", "r555", "r570", "r607", "r622", "r678", "r728"] }, "us-gaap_StockholdersEquityAbstract": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityAbstract", "presentation": ["http://sintx.com/role/BalanceSheets"], "lang": { "en-us": { "role": { "label": "Stockholders equity", "documentation": "Amount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest." } } }, "auth ref": ["r38", "r41", "r42", "r64", "r467", "r483", "r504", "r505", "r555", "r570", "r607", "r622", "r678", "r728"] }, "us-gaap_StockholdersEquityNoteDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityNoteDisclosureTextBlock", "presentation": ["http://sintx.com/role/Equity"], "lang": { "en-us": { "role": { "label": "Equity", "documentation": "The entire disclosure for equity." } } }, "auth ref": ["r68", "r128", "r245", "r247", "r248", "r249", "r250", "r251", "r252", "r253", "r254", "r255", "r256", "r257", "r260", "r342", "r506", "r507", "r519"] }, "us-gaap_StockholdersEquityReverseStockSplit": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityReverseStockSplit", "presentation": ["http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative", "http://sintx.com/role/SubsequentEventsDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Reverse stock split, description", "verboseLabel": "Reverse stock split", "documentation": "Description of the reverse stock split arrangement. Also provide the retroactive effect given by the reverse split that occurs after the balance sheet date but before the release of financial statements." } } }, "auth ref": ["r70"] }, "us-gaap_SubsequentEventLineItems": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsequentEventLineItems", "presentation": ["http://sintx.com/role/SubsequentEventsDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Subsequent Event [Line Items]", "documentation": "Detail information of subsequent event by type. User is expected to use existing line items from elsewhere in the taxonomy as the primary line items for this disclosure, which is further associated with dimension and member elements pertaining to a subsequent event." } } }, "auth ref": ["r375", "r394"] }, "us-gaap_SubsequentEventMember": { "xbrltype": "domainItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsequentEventMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/SubsequentEventsDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Subsequent Event [Member]", "documentation": "Identifies event that occurred after the balance sheet date but before financial statements are issued or available to be issued." } } }, "auth ref": ["r375", "r394"] }, "us-gaap_SubsequentEventTable": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsequentEventTable", "presentation": ["http://sintx.com/role/SubsequentEventsDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Subsequent Event [Table]", "documentation": "Disclosure of information about significant event or transaction occurring between statement of financial position date and date when financial statements were issued." } } }, "auth ref": ["r375", "r394"] }, "us-gaap_SubsequentEventTypeAxis": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsequentEventTypeAxis", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/SubsequentEventsDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Subsequent Event Type [Axis]", "documentation": "Information by event that occurred after the balance sheet date but before financial statements are issued or available to be issued." } } }, "auth ref": ["r375", "r394"] }, "us-gaap_SubsequentEventTypeDomain": { "xbrltype": "domainItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsequentEventTypeDomain", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/SubsequentEventsDetailsNarrative"], "lang": { "en-us": { "role": { "documentation": "Event that occurred after the balance sheet date but before financial statements are issued or available to be issued." } } }, "auth ref": ["r375", "r394"] }, "us-gaap_SubsequentEventsAbstract": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsequentEventsAbstract", "presentation": ["http://sintx.com/role/SubsequentEventsTextBlock", "http://sintx.com/role/SubsequentEvents"], "lang": { "en-us": { "role": { "label": "Subsequent Events [Abstract]", "documentation": "The entire disclosure for significant events or transactions that occurred after the balance sheet date through the date the financial statements were issued or the date the financial statements were available to be issued. Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business." } } }, "auth ref": ["r393", "r395"] }, "us-gaap_SubsidiaryOrEquityMethodInvesteeSaleOfStockBySubsidiaryOrEquityInvesteeTable": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsidiaryOrEquityMethodInvesteeSaleOfStockBySubsidiaryOrEquityInvesteeTable", "presentation": ["http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails", "http://sintx.com/role/SubsidiarySaleOfStockAxis", "http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails"], "lang": { "en-us": { "role": { "label": "Subsidiary or Equity Method Investee, Sale of Stock, Type [Table]", "documentation": "Disclosure of information about sale of stock made by subsidiary or equity method investee to investor outside consolidated group by type of sale. Includes, but is not limited to, stock issued in business combination in exchange for share of acquired entity." } } }, "auth ref": ["r393", "r395"] }, "us-gaap_SubsidiarySaleOfStockAxis": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsidiarySaleOfStockAxis", "presentation": ["http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails", "http://sintx.com/role/SubsidiarySaleOfStockAxis", "http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails"], "lang": { "en-us": { "role": { "label": "Sale of Stock [Axis]", "documentation": "Information by type of sale of the entity's stock." } } }, "auth ref": ["r393", "r395"] }, "us-gaap_SubsidiarySaleOfStockLineItems": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsidiarySaleOfStockLineItems", "presentation": ["http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails", "http://sintx.com/role/SubsidiarySaleOfStockAxis", "http://sintx.com/role/ScheduleOfUnrecognizedStock-basedCompensationDetails"], "lang": { "en-us": { "role": { "label": "Subsidiary, Sale of Stock [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth ref": ["r393", "r395"] }, "us-gaap_SupplementalCashFlowInformationAbstract": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SupplementalCashFlowInformationAbstract", "presentation": ["http://sintx.com/role/StatementsOfCashFlows", "http://sintx.com/role/SupplementalCashFlowInformation", "http://sintx.com/role/StatementsOfCashFlows"], "lang": { "en-us": { "role": { "label": "Supplemental Cash Flow Information", "documentation": "The charge against earnings resulting from the aggregate write down of tangible assets from their carrying value to their fair value." } } }, "auth ref": ["r26", "r65"] }, "SINT_TechnologyAssessmentAndTransferIncTATMember": { "xbrltype": "domainItem", "nsuri": "http://sintx.com/20240630", "localname": "TechnologyAssessmentAndTransferIncTATMember", "presentation": ["http://sintx.com/role/LeasesDetailsNarrative", "http://sintx.com/role/TechnologyAssessmentAndTransferIncTATMember", "http://sintx.com/role/LeasesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Technology Assessment and Transfer, Inc. (T&T) [Member]", "documentation": "Technology Assessment and Transfer, Inc. (T&T) [Member]" } } }, "auth ref": ["r26", "r65"] }, "SINT_TwoThousandAndTwentyOneEquityDistributionAgreementMember": { "xbrltype": "domainItem", "nsuri": "http://sintx.com/20240630", "localname": "TwoThousandAndTwentyOneEquityDistributionAgreementMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/TwoThousandAndTwentyOneEquityDistributionAgreementMember", "http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "2021 Equity Distribution Agreement [Member]", "documentation": "2021 Equity Distribution Agreement [Member]" } } }, "auth ref": ["r26", "r65"] }, "SINT_TwoThousandAndTwentyFourAprilRegisteredOfferingMember": { "xbrltype": "domainItem", "nsuri": "http://sintx.com/20240630", "localname": "TwoThousandAndTwentyFourAprilRegisteredOfferingMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/TwoThousandAndTwentyFourAprilRegisteredOfferingMember", "http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "2024 April Registered Offering [Member]", "documentation": "2024 April Registered Offering [Member]" } } }, "auth ref": ["r26", "r65"] }, "SINT_TwoThousandAndTwentyFourMarchRegisteredOfferingMember": { "xbrltype": "domainItem", "nsuri": "http://sintx.com/20240630", "localname": "TwoThousandAndTwentyFourMarchRegisteredOfferingMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/TwoThousandAndTwentyFourMarchRegisteredOfferingMember", "http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "2024 March Registered Offering [Member]", "documentation": "2024 March Registered Offering [Member]" } } }, "auth ref": ["r26", "r65"] }, "us-gaap_TypeOfArrangementAxis": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "TypeOfArrangementAxis", "presentation": ["http://sintx.com/role/DebtDetailsNarrative", "http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/LeasesDetailsNarrative", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Collaborative Arrangement and Arrangement Other than Collaborative [Axis]", "documentation": "Information by collaborative arrangement and arrangement other than collaborative applicable to revenue-generating activity or operations." } } }, "auth ref": ["r331"] }, "SINT_UpFrontInsurancePremium": { "xbrltype": "monetaryItem", "nsuri": "http://sintx.com/20240630", "localname": "UpFrontInsurancePremium", "crdr": "debit", "presentation": ["http://sintx.com/role/DebtDetailsNarrative", "http://sintx.com/role/UpFrontInsurancePremium", "http://sintx.com/role/DebtDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Up front insurance premium", "documentation": "Up front insurance premium." } } }, "auth ref": ["r331"] }, "us-gaap_UseOfEstimates": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "UseOfEstimates", "presentation": ["http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative", "http://sintx.com/role/UseOfEstimates", "http://sintx.com/role/OrganizationAndSummaryOfSignificantAccountingPoliciesDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Use of Estimates", "documentation": "Disclosure of accounting policy for the use of estimates in the preparation of financial statements in conformity with generally accepted accounting principles." } } }, "auth ref": ["r14", "r15", "r16", "r90", "r91", "r92", "r93"] }, "us-gaap_ValuationTechniqueAxis": { "xbrltype": "stringItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ValuationTechniqueAxis", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails", "http://sintx.com/role/ValuationTechniqueDomain", "http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "label": "Valuation Approach and Technique [Axis]", "documentation": "Information by valuation approach and technique." } } }, "auth ref": ["r349", "r350", "r549", "r674"] }, "us-gaap_ValuationTechniqueDomain": { "xbrltype": "domainItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ValuationTechniqueDomain", "presentation": ["http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails", "http://sintx.com/role/ValuationTechniqueDomain", "http://sintx.com/role/ScheduleOfAssumptionsUsedInEstimatingFairValueDetails"], "lang": { "en-us": { "role": { "documentation": "Valuation approach and technique." } } }, "auth ref": ["r349", "r350", "r549", "r674"] }, "us-gaap_WarrantMember": { "xbrltype": "domainItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "WarrantMember", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/WarrantsAndRightsOutstandingMeasurementInput", "http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Warrants measurement input", "documentation": "Value of input used to measure outstanding warrant and right embodying unconditional obligation requiring redemption by transferring asset at specified or determinable date or upon event certain to occur." } } }, "auth ref": ["r672", "r673", "r674"] }, "us-gaap_WarrantsAndRightsOutstandingTerm": { "xbrltype": "durationItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "WarrantsAndRightsOutstandingTerm", "presentation": ["http://sintx.com/role/EquityDetailsNarrative", "http://sintx.com/role/WarrantsAndRightsOutstandingTerm", "http://sintx.com/role/EquityDetailsNarrative"], "lang": { "en-us": { "role": { "label": "Warrants and rights outstanding term", "documentation": "Period between issuance and expiration of outstanding warrant and right embodying unconditional obligation requiring redemption by transferring asset at specified or determinable date or upon event certain to occur." } } }, "auth ref": ["r672", "r673", "r674"] }, "us-gaap_WeightedAverageNumberDilutedSharesOutstandingAdjustment": { "xbrltype": "sharesItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "WeightedAverageNumberDilutedSharesOutstandingAdjustment", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails", "http://sintx.com/role/WeightedAverageNumberDilutedSharesOutstandingBasic", "http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"], "lang": { "en-us": { "role": { "label": "Weighted average number of diluted shares outstanding adjustment", "documentation": "The sum of dilutive potential common shares or units used in the calculation of the diluted per-share or per-unit computation." } } }, "auth ref": ["r614"] }, "us-gaap_WeightedAverageNumberDilutedSharesOutstanding": { "xbrltype": "sharesItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "WeightedAverageNumberDilutedSharesOutstanding", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails", "http://sintx.com/role/WeightedAverageNumberDilutedSharesOutstanding", "http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"], "lang": { "en-us": { "role": { "label": "Diluted", "verboseLabel": "Number of shares used in per common share calculations: Diluted Calculation", "documentation": "The average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period." } } }, "auth ref": ["r150", "r161"] }, "us-gaap_WeightedAverageNumberDilutedSharesOutstandingBasic": { "xbrltype": "sharesItem", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "WeightedAverageNumberDilutedSharesOutstandingBasic", "presentation": ["http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails", "http://sintx.com/role/WeightedAverageNumberDilutedSharesOutstandingBasic", "http://sintx.com/role/ScheduleOfBasicAndDilutedLossPerShareDetails"], "lang": { "en-us": { "role": { "label": "Basic", "verboseLabel": "Number of shares used in per common share calculations: Basic Calculation", "documentation": "Number of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period." } } }, "auth ref": ["r148", "r161"] }, "dei_WrittenCommunications": { "xbrltype": "booleanItem", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "WrittenCommunications", "presentation": ["http://sintx.com/role/Cover", "http://sintx.com/role/WrittenCommunications", "http://sintx.com/role/Cover"], "lang": { "en-us": { "role": { "label": "Written Communications", "documentation": "Boolean flag that is true when the Form 8-K filing is intended to satisfy the filing obligation of the registrant as written communications pursuant to Rule 425 under the Securities Act." } } }, "auth ref": ["r589"] }, "std ref": { "r0": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "45", "Paragraph": "1", "SubTopic": "230", "Topic": "830", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147482740/830-230-45-1", "r1": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "45", "Paragraph": "14", "Subparagraph": "(a)", "SubTopic": "10", "Topic": "230", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147482740/230-10-45-14", "r2": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "45", "Paragraph": "28", "Subparagraph": "(a)", "SubTopic": "10", "Topic": "230", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147482740/230-10-45-28", "r3": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "45", "Paragraph": "28", "Subparagraph": "(b)", "SubTopic": "10", "Topic": "230", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147482740/230-10-45-28", "r4": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "50", "Paragraph": "1", "SubTopic": "10", "Topic": "360", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147482099/360-10-50-1", "r5": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "50", "Paragraph": "18", "SubTopic": "10", "Topic": "810", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/810-10-50-18", "r6": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "50", "Paragraph": "2", "SubTopic": "10", "Topic": "505", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147481112/505-10-50-2", "r7": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "50", "Paragraph": "2", "Subparagraph": "(d)", "SubTopic": "10", "Topic": "718", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/718-10-50-2", "r8": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "50", "Paragraph": "2", "Subparagraph": "(e)", "SubTopic": "10", "Topic": "718", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/718-10-50-2", "r9": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r10": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r11": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r12": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r13": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r14": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r15": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r16": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r17": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r18": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r19": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r20": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r21": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r22": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r23": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r24": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r25": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r26": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r27": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r28": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r29": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r30": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r31": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r32": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r33": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r34": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r35": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r36": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r37": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r38": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r39": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r40": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r41": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r42": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r43": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r44": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r45": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r46": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599", "Paragraph": "1", "Subparagraph": "(SX 210.5-02(22))", "SubTopic": "10", "Topic": "216", "Publisher": "FASB", "URI": "https://asc.fasb.org/1943274/2147480429/599-10-216-02(22)", "r47": { "role": "http://fasb.org/us-gaap/role/ref/legacyRef", "Name": "Accounting Standards Codification", "Section": "599",

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Y7Y5ESGM2JB51.5KD:C95LV PVG/I7:0>EIR\$>#5N7:C\$.50.2YH9K* MHBKD/JTS-~/YOFCCOZ*F5&BJ=>@00LIJE [3R7/0LIX=W1YPP*+ G6I@:U1I M 03MOOLEQI!> D*IG=23.5 Y75EWE,%Q=X/GI4S!<^< KIQO>.>=>@21P0I3C ML2/302#R7@#7#I&92QX.2./M>=I|02PI.X>H=I#<2K9. K*./M&E:HIT. W MOA7 MS*!12JR^ + >.>4H2B75=>2.2T3 & [X02&7G^Q.Y2. AYH.U.5ENC*O+K* MZ*L3#B/PZ/OVH33G.~4IY8PU8<40185RKB7@.P@R7I2I|OYGI.&\$*Q ^EV+I+ZNP.T^Y3R|+01* B-NIL.HWWI.0Y?+Q5| M>S^Z4AB/N% M>I4?> 83>1Y5N/YW2.AJ&IAW&202)O?DBOLH L3%I. WZ?=> KA@8I)M MG&I2MN. <K>Y+YI.L.J.~V72I|N5.0>7>N:~WFI&HCS4.EIT MIB|@N KJG@N/VIMUB8Y M1I0F@ M.IX/VS(LI>*#AQ02=ZTLI.ER2X+<I<W./80&S&T/XI03I. CLRG@XE7B250?)I. MW52#X-B?C*+>5UV. OP7H.HBSTDVW:IL|HX7MFAA-KCDI|JHREA%Q^5*RX. M^C^GJ5#5I-DMF*BIJNU2N02I|J+>02=&R7.E#4.!?>RB>Z4=I|J9S.~^QJ.MI.M+Al<=>L+7+U|@I+L+H3+Z+U./H+B3+2/HI.2^>707NKU.L(I=UT:N^I.~M.O.IGW5^HXZKQ.PE|R#~2.I.43GEI?X2/I>H9^I.MLE.9L1&00#/#.5+>.>.>C* <6&WM^~(I82RKI)?Z!~#M@>3YOI(#=I2<*MG.O+>M.V^..BUOFOH.W:BJC\$U|H8YY.GA8=- QOS!^T8~YL.I3@6R2T6K7BJZ.NCA.MI?>I#B&+TA>9.%I\$4HI!%A.IYAI|HWWBA^U+ M3*4^KPI01/2I.PHNA.Z. M%257\$U/\$.I7I:19YV. 2#6I3L-BHR6I.1M3MH43VHRG?YNN=([&I&L.M.S&SATA4USO*~THK+|KD|ZZNVU?>=I|HBD|HIVUV.O/5%#>+2HYR^T=5I6 M4>.>6S|GEF.VC#2=>5YH4^?>T|J. KSW&I?> *%NE|OW#>@|AV|S#~LAC.A.MKTXIJK 7ZR>=>R2R.3?I7R6I8R9I|XSCS9#HA.4O.WCVY75~^I7W.8?/0I8 M6#>I|V^8G=>S/I|X06(I.AV|Y3I.MG.20^U|OD#(B^2\$.B#4I2D3B.T^>I1 M6Z=B)N^I.MZ.PV.ZI.DL+5Z.I|Y|Q4I1X22=~#O|EYI.I.N#ZRGZ.I^&9@P^Q3 MR02H|I=(HX>\$FRM^<#H7I87L|(<28^0I)E.E*NOI|I?I.SB|J7PU5F6.HM5 M|E|60I.EC7P4I57I W<=>0.7>=>6Z\$~.I8+I|WR|S.XV^F2B.MIA.I|SD M-47#73I|HNDI?I45^>OCWMK6@|>X.6FA6606Y4K~EOEQ^I3EHB.I|M8#RP>@ MP~>I424POM2=>I(4QD6O).&^U/S@M|I.T|I%1I7IAGO=Z|F^B#R|BKX^X.M-I8^T=>N70.I7I. R+?I4Q4I8D8PE.SV(HSKD9%N.VOD.4+I|I.U.KY5/M.I3>K>I^OS>7N|18+>DTI4\$5FF.IYU^4 >4=IL5O.K=>I.W|J8KE#T.OZV&5\$ MISU^QOZI2C5.I.MH.D%#I=>9.I7^I7X.U@OA4.BOHIXKI(WNG^I&K. M25W5Z>I2^#*Z^Y.I.3SNX7I\$64C2A5OQIE@MOR> +K=>4I4OVH5.I#I!!~I|D@PIEE%I+4Y3?>I|OD M^2RVOID^NUI=F^VI5^I.1D|F|I3U|N@*I.MHZL4/2.D<4#:(M.TU>^H|ION^MNN0.EM+WMBZ1\$&+I|J2>8QMDN=OXI.Y\$ M.I.B@7&=>I+>@OXIV645SB<~>I|V73/I|FQSGI|U+|WN^W6R#26?C5I6OU.EA.U|TH6FA?>T|TNV=>O|SNO^D\$W5.I.M|I|H@UE^X|8 I^|CPPEYU^O3G0I M^I!> I+Q|T7I.IV4^Z+>4I(CYQXDI|OS#48I)&=>I^?>T4Z#> WY>BB@W.M@RE9U|W|7+>P+>ZB=>P.I.O.W^I4^3\$359@N^OHU|M3A^#>3^X1C^H^+W^W^>KC/I2.8-S^~QYH5 MZZW.UB I|XEH4I6G|I#=>I^O|CT6=>I1T^9^>=>N^S|C#I.48&S|B#9R M=E|2T^I+>=>S+A^>~%T*?>R^M^N^AUA7Z22^0VA2N^T^V:I^N16@F8.G4?>Q.I5>S^R0|<I04\$Q~0554.ZI12 M6.4\$!>6S|P|V^I^O>S&S.>@I2PHMH6.H|70A^S60YQI9>XZ.P048:84\$5!>I^A M^2PH@.(0Q\$V=>NKR^5I0M^>I^>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G^Z&P@3U3I|U5LY^WK|9T>.>I7I.7IIMO:3A4.M|JV7|TK8B.HA|?>#>S.U.^>@N@V. &V6I>=>G|P|SPY&E34|NFR<#>9|N|H5\$E^Z MWOQ@Z|I^BYNR+>A|I|NEN.O^QAV+>S^M^HYU7&I^&2%>P&E|Y553L|I^|B|E|F|I72&K.U.M\$5.6E&@I|HAMPM^I|^I^V76=>NRF8@84U|Q. GZ|GZ|BIOA3+87|W8^~WLD2B|.ME20XV7D1^?>E|C3CH8&I|I3CX.0. #&I8?>I.~A|W3 6G|Z2>4R..|D8H5 L^?>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G^Z&P@3U3I|U5LY^WK|9T>.>I7I.7IIMO:3A4.M|JV7|TK8B.HA|?>#>S.U.^>@N@V. &V6I>=>G|P|SPY&E34|NFR<#>9|N|H5\$E^Z MWOQ@Z|I^BYNR+>A|I|NEN.O^QAV+>S^M^HYU7&I^&2%>P&E|Y553L|I^|B|E|F|I72&K.U.M\$5.6E&@I|HAMPM^I|^I^V76=>NRF8@84U|Q. GZ|GZ|BIOA3+87|W8^~WLD2B|.ME20XV7D1^?>E|C3CH8&I|I3CX.0. #&I8?>I.~A|W3 6G|Z2>4R..|D8H5 L^?>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G^Z&P@3U3I|U5LY^WK|9T>.>I7I.7IIMO:3A4.M|JV7|TK8B.HA|?>#>S.U.^>@N@V. &V6I>=>G|P|SPY&E34|NFR<#>9|N|H5\$E^Z MWOQ@Z|I^BYNR+>A|I|NEN.O^QAV+>S^M^HYU7&I^&2%>P&E|Y553L|I^|B|E|F|I72&K.U.M\$5.6E&@I|HAMPM^I|^I^V76=>NRF8@84U|Q. GZ|GZ|BIOA3+87|W8^~WLD2B|.ME20XV7D1^?>E|C3CH8&I|I3CX.0. #&I8?>I.~A|W3 6G|Z2>4R..|D8H5 L^?>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G^Z&P@3U3I|U5LY^WK|9T>.>I7I.7IIMO:3A4.M|JV7|TK8B.HA|?>#>S.U.^>@N@V. &V6I>=>G|P|SPY&E34|NFR<#>9|N|H5\$E^Z MWOQ@Z|I^BYNR+>A|I|NEN.O^QAV+>S^M^HYU7&I^&2%>P&E|Y553L|I^|B|E|F|I72&K.U.M\$5.6E&@I|HAMPM^I|^I^V76=>NRF8@84U|Q. GZ|GZ|BIOA3+87|W8^~WLD2B|.ME20XV7D1^?>E|C3CH8&I|I3CX.0. #&I8?>I.~A|W3 6G|Z2>4R..|D8H5 L^?>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G^Z&P@3U3I|U5LY^WK|9T>.>I7I.7IIMO:3A4.M|JV7|TK8B.HA|?>#>S.U.^>@N@V. &V6I>=>G|P|SPY&E34|NFR<#>9|N|H5\$E^Z MWOQ@Z|I^BYNR+>A|I|NEN.O^QAV+>S^M^HYU7&I^&2%>P&E|Y553L|I^|B|E|F|I72&K.U.M\$5.6E&@I|HAMPM^I|^I^V76=>NRF8@84U|Q. GZ|GZ|BIOA3+87|W8^~WLD2B|.ME20XV7D1^?>E|C3CH8&I|I3CX.0. #&I8?>I.~A|W3 6G|Z2>4R..|D8H5 L^?>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G^Z&P@3U3I|U5LY^WK|9T>.>I7I.7IIMO:3A4.M|JV7|TK8B.HA|?>#>S.U.^>@N@V. &V6I>=>G|P|SPY&E34|NFR<#>9|N|H5\$E^Z MWOQ@Z|I^BYNR+>A|I|NEN.O^QAV+>S^M^HYU7&I^&2%>P&E|Y553L|I^|B|E|F|I72&K.U.M\$5.6E&@I|HAMPM^I|^I^V76=>NRF8@84U|Q. GZ|GZ|BIOA3+87|W8^~WLD2B|.ME20XV7D1^?>E|C3CH8&I|I3CX.0. #&I8?>I.~A|W3 6G|Z2>4R..|D8H5 L^?>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G^Z&P@3U3I|U5LY^WK|9T>.>I7I.7IIMO:3A4.M|JV7|TK8B.HA|?>#>S.U.^>@N@V. &V6I>=>G|P|SPY&E34|NFR<#>9|N|H5\$E^Z MWOQ@Z|I^BYNR+>A|I|NEN.O^QAV+>S^M^HYU7&I^&2%>P&E|Y553L|I^|B|E|F|I72&K.U.M\$5.6E&@I|HAMPM^I|^I^V76=>NRF8@84U|Q. GZ|GZ|BIOA3+87|W8^~WLD2B|.ME20XV7D1^?>E|C3CH8&I|I3CX.0. #&I8?>I.~A|W3 6G|Z2>4R..|D8H5 L^?>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G^Z&P@3U3I|U5LY^WK|9T>.>I7I.7IIMO:3A4.M|JV7|TK8B.HA|?>#>S.U.^>@N@V. &V6I>=>G|P|SPY&E34|NFR<#>9|N|H5\$E^Z MWOQ@Z|I^BYNR+>A|I|NEN.O^QAV+>S^M^HYU7&I^&2%>P&E|Y553L|I^|B|E|F|I72&K.U.M\$5.6E&@I|HAMPM^I|^I^V76=>NRF8@84U|Q. GZ|GZ|BIOA3+87|W8^~WLD2B|.ME20XV7D1^?>E|C3CH8&I|I3CX.0. #&I8?>I.~A|W3 6G|Z2>4R..|D8H5 L^?>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G^Z&P@3U3I|U5LY^WK|9T>.>I7I.7IIMO:3A4.M|JV7|TK8B.HA|?>#>S.U.^>@N@V. &V6I>=>G|P|SPY&E34|NFR<#>9|N|H5\$E^Z MWOQ@Z|I^BYNR+>A|I|NEN.O^QAV+>S^M^HYU7&I^&2%>P&E|Y553L|I^|B|E|F|I72&K.U.M\$5.6E&@I|HAMPM^I|^I^V76=>NRF8@84U|Q. GZ|GZ|BIOA3+87|W8^~WLD2B|.ME20XV7D1^?>E|C3CH8&I|I3CX.0. #&I8?>I.~A|W3 6G|Z2>4R..|D8H5 L^?>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G^Z&P@3U3I|U5LY^WK|9T>.>I7I.7IIMO:3A4.M|JV7|TK8B.HA|?>#>S.U.^>@N@V. &V6I>=>G|P|SPY&E34|NFR<#>9|N|H5\$E^Z MWOQ@Z|I^BYNR+>A|I|NEN.O^QAV+>S^M^HYU7&I^&2%>P&E|Y553L|I^|B|E|F|I72&K.U.M\$5.6E&@I|HAMPM^I|^I^V76=>NRF8@84U|Q. GZ|GZ|BIOA3+87|W8^~WLD2B|.ME20XV7D1^?>E|C3CH8&I|I3CX.0. #&I8?>I.~A|W3 6G|Z2>4R..|D8H5 L^?>E>B>I^>Z I|D#78 I3F9L43I2W6|.EL M@=>6U|HDH@R&S|F35@>1.3%I\$04P#>F.I.7I.BTS@Z|ULD-1.X|E4A7E0V+E%I.H.M%>I+^I|H7I^V57Q0.54I|JKVYH7268^I914<#%>A6BPY W75FH.R(6IPZF M@K=722OQ. (OG9#RVPVW@R5E|N\$>N^Y^>N^OY|F.L7BQ.M6@>5U|U+>B.I!!(63.6%I8.*Z)~I^CCG.7%|I|U^I^M^>Z|W3D.KI8?>B^5I.M+2%>M|I54^~P1~.I.LW.R+W(T2@>#2\$4G0V|I|D@.L2.BX=>CRGS@/GH5 M%3I5=>25.^Z0X^OT7I1H&J&R(V^L^I^U1I.048AI#<?7AI|UGBFEX^Q?I287.M.M^~P6&CH|I|V+BSE).>V.Y.I*~W-7^O#%>6=K?EPK>A^UY&9ZJ RUE+YX8T.M0%9ZR79I (I#%>G067I85H7.N.O4>6B0D76%T^O^CFI\$~>#I#>I|B^~C|D M^T^<^Q^B|MXYKEI5\$).V^S.176FTM.78+23 V6\$>Z\$>@6C<<H0J|I^>Z: M+>0VZK>^I|Q.^dV8|.IYO@P|WAM 58M>=>TU>0>I>@>I>P^I80+>I&O M^0 4K0H.3B>Z^P^I66I<~I|.G

```
%C870*66(4+$U) MFV@101203(4)5%01/2@:XYSZ26=46L)@:#22;2T>5/|L<+>/O(1MAJJ| M*YVPRPT|0X-XO$C23 Z$+>%(L/3Q,BM);Z:Q(0^C N3#80C=E-ORGF/9Y/GI
M>&JTNZNPYIG<C%+OX,@H%:(?ZJLBS39%-/0S(LS-GR:8V6ZG&6S _6- UO M*MVL /T@? 8&(B^<+>/(PZ;T3YVAIW<(6,-BFIE<1YC03B/?#LBA=P>D+7KA7 M-DZ,7 F)6%+5/_
%:72$1 IQ1P IQ1Z&OW/Q? G?G2?F1B7U@HIMY M8UBK8P&?2IE_ KYM 1D$M8M8M?C Q_1%A I(AZ;T4QYI/W^E*PIG18G.6K5H,7, 7-UX3Y|J
EIJL&M:S=D<3>|NMTM MV(XSSSPR=014*6)DER# M8BDMLB-KLGIE017L:4~U@|CJCBORF6S:~(K*CB62G/U/K#VNM9U5EH19VZG@
M7=ND14:54GE&+7UC/QKB(0)-.9DZ?5(=7A)K3DIWH(DN=9F9TN;EO#BSA| M'D+002.0/0CEJZJ|PGA:~)~*G$?>?WU9^GJL6121N|R2$;C6_ $^RJ>=L6 MAVF?
650:FDEI(M%5U2I,$*B:JIE3U6K1WEDL1H954WV5V)~(|@1,IQ+6ZK1PQ,2B^N?2)=YK2<+>K->N?>=VOTB.C) HJ_<C| M%Y%UDHMAH$=H9=9YQ28_:9=QESW*
(AYC<8$S$H5$&=E9I7I%K'U' M7+~(|Z9'LA% M7+~|JKV^>+>Y/O33+6B1$X?2=I MQ$ 1MT55.R5%)&PEH&A_ GGOBSHM#I>1Q9 A MEW3B+M^>22X?2?0&+ID,=
10?7:X(TQ6RV.U$M+HI,&X(13Z?9Z<~92AIM| MDR:@OIT4VSJ7|Z>#9JINVPURPZ1~|YT@K:5,5;2VJ|JUDY~R IW MMC&6.W2$SZA'REGDIHOSAYN2N)->O)VGI8I@2?
DEF7&IDK<0TQ7I:4XO5_ MN!~<K^+>R+IRAU=9Q0M>?R1Y8!@:XSV78L@_T| 2SBHICQGA ME4KQ+JG_IL :CW:6VCH%|A8(?!14B-OL&SV?2TXXS$=|S6L7|UD.T8I>?
Q/PUL&K%&L$SSV%=(6S6$RKF+>QYILN:7E= #V#?LH?>=I1^U2$3L_5 M=897GJ/V|V/E&P(L;Z3 F>6J5:BVH/57GTVXHUW$;~2:PK MO(+>FO+S#C10_
3^99.DBF=O% M68VY2RL=+D&(4T_<999U.U&M16=MYN'.8TY3T_U_ MXY4N_KU@3Z:S2FI_R_Y@2Y+**6$)Z*IOUE_V%_H6FZ_&Q|B/D&CN#
(M_C3^XQC7I^ER5%~2H^T_ZAUSNOK4WW2F_14OZ<ITG0U06%_J$ BORH MH^2D9C$%_YMM72WNI?A^NK^KSJ^1-DRD3P3(Z1Y3Q<~(X"80I_>95ISYI
M.80^CZ2F.8$B+BWO1C9.LC1$A4:NO6E>|E8^CFE(X%22^|MH+>~6YUI(CBJ MG_>YAC?+>+|IMOIXH,SS-OA6-49&-H*PO>2VTN?|K-Y>O9&7D|_5% ) M>F9&B?
$+L.TA3>91ZK$T1.T0=<M10M@43.NTU>@:|L1 31GGV0UY+RKC80_ M$U^U=(3K)^(AC^X#9:)=KC>G?81N9QY-Y6&W9_-4LZA3A^K|W'WGGJ9Z M9J:TK84?D2%|
<50<|_5BIJU_2.C&5(5.84^256?>0.9D5A08^J>N89 MYI7^5>IN 3(P+BD_X%A,(SKMGI?7?1F5QU4BW^W^|B.G.GWV$|@H$ZH) M'W$A@(|JYXJH;H#>4L^NAG61WL(5ZLN?
DR>~7ZG_NE/I^*8>4L10=|H#E.M'Q<9<+54PQ5:K#9/0Z7?17GOC6:K(T05FUMGMS@U?2?&BVY3|_S3$;7I2 MQ0.LNV06&Z:Z$|SAV>_D>|IO|SLU6<~>?8;9JGJ<~>C%&P:IZ(N
6^CQ1GY1I7CQB^?LO>+>?19R&NA@T.M:J2@>=2^8KZZ>?D178J?7(V1W9U.SS@>+>E*G^WVWIT_6Z5>8BK|VOY MS_0#8;|LFBOT3.
M(IEXIYI|IPI7J,5.27N8&99+YBI.M+KJAV%E3+4JKT4>_A-1$S^21B9<+>MLJ$SSSF9J RNDWR0^*Y<FNOZ|SOIM|7>~06^~2S^AV8T:POICG^1-V+ M&IGIS1L#CJ|)(6^4?G'W?
PB5ME MS_DEXL2T06I_A^C#EU^*HTL7_Z?|14T17S16;&CG@&+N+L1PK UYB M7^N)S62N(D&0;_ $ 22%>14$?>=S(CM?DQ053?2)ANU9>?>EQCI-FCOD_U177@>0=9#
M(J>XFXV>?>JOIEQ2Y+|OUI#H ME4215A#JILZ|MMW55_6IL_Y%| OS14&P%W%_Y#Z^>X@<RR: R1RA&| M5XCM10Y1^1?~#?4$;@SNF2BT0&W26DQ(O?P?OLB+FOXIL
V$U|_MOZ$M MO<FEN1^5129H_~#P1WU+|I(B*4+1/8M1U2+~|+*GMT@Y.G2YM478Q&HE.MT>S^"IOY0-IISPU3A:TC_E%ON^<K:7_>=> ROFAD?BV^ DK10EZI<+>S82$V^P^C
MDS:<|SET5V^BK01ETALN7PYZYU5SD04,2?P_D<4K65.SU$FM%&WGU?_ M6U5ZU<=CS87?B X$0$N1^B'D_T^R^D09I$1I^E01K$).YWA4^%YLUHCIED0&~@A-
5P7RA63J16M_E=MX$MIE?#R9$7Z8G6K60S3?DCIO22NKYY@~"=2NW M127DU7/6HCEIU2NNM)Q_X1K+>N.LQA=I^H$&G#(6_/OINCY|Y;+>5>IHWK
MJZ>_WVXCZH>47.H^ITZ^81G^<C^HA>)>?PWU^%G$CZ^CYOIT7|_V_Q|> MJ1^SQ_19~|I^MIRH|SV7$E;FMQ$|!<+>IWP7P9ZC8?>?>SPT>6J3RL_O
M41PZ>_KKJL2N^207&8WB^|IL<1RXW^P+>| LCCSG^U+M#H= M1MX^BROA M^>+>=>FR&_UL_1=>#9@_X1QX3.9$C2.5L+U^I^HK6512.01658G6P1RXE|
M=XRR&A^XR^8HE9P6W$>ZE:3^_||J3K1UJ1W8+>W4W4C^>Z_0J_ Y30BN$S: M$GNC<X^KO|8LQ_>_9V.UUD_?0-8=0^_W.E9<~<~>4V4%0%_||Z?>_@_T
MSOIFQ55=17UH&+>H1@I^I^A2$Q0^=7A9Q01=5QA451^0H0&@M^D(C.BN1V2FEZ7BS MC#W_>9ZD:00XS50|S:NS<_8BT&016V|>Q|O_>E$<|VYK^%0$V$>6Y_O^>TM; NW_
MZ+>B^|K17$B$X3^E^E(F-Z^J^K^*KIV^2^H-J=|XD+>Y.5$17^I^WYUE6|G5JA35P^2_9NLWXI^4M:NP=JXIPCM2C&WP
M_>#>2^TPIC^>+>#R0FY^SM^N4^ELE_<C^R^2TSUON^9>+>?>A^PAI^>_O_G O^*M^_I^EJZ^?~6/93Z<X70^@OG:31^="MHQ(21N+280Q?>5!<C@>M0&HA6EQ
M^ECGDSV^PHXCE^H6M^+>+>G^*~@ID_7B:(UNZ^CBB2YIV|IDA0+>Y M^Y^Q8A~>1J.VJBVY6_KJHICN;B|)EM(BB^FLQZK-PL=|75$U1+>TP^|Q_O M83I,2HN=3M^>_FBI
(D7C^I)M$>ODPXW1Y|I=VDA_>~VDXR1SN@25JOS5A M8$G_X7^9<C^21^2PYPSM|CVLW1M^OTI#(P^N$S_BI:=>Y:E+>+148TOVXK^_UXB1^?>+E
08D&4A1$6K@>L?T^|OLNEKOK416GB7I;BUZL^&?>K$>?01^?A.K;?>?1K^>7%GD M54590M+P+>B=X#V1_1Z57C1$HWYXZL_3W^>+>+>5^>UOXW9^LD+K8MR=V) M^L9X@B:7I
2ED^%LB1W^)(3N^R>=22+G/99($0QJ0M<Z9AH2.II&R%)A_U<MOD-1.P2/F7NSTQ@,1P:P=-IF#VZFE 0^BT_GXZTRI?>X&I=M-GFDKD.L&W: M1=7.4F3LG2HJ:
(K)YU18>D.6BUU|Y_||H1Q3I_1|A6V-IH<1I$0$PYT41M(W>M>_MG6.CF47FGFIA.C1-U_1W<3>_JY-DP8XH%|WH>?>S1=V.2053I$& MG6F12LPG42<~>GT^>?|J<~>IZ@<~>C|G|
MIKJOLZNAGS^W^R&S1B<+>H|I$2S1Q^? MA9_""QNN^_||MZ1>@>OHCW20^IQK3$1:(2&^RT@>F|OWE|YMG/T_GPI>R&K1 M=1W_1SC$M1.IJ1YI(U_||I?
7Y;N|J$9Y_SFRK$N=8^W1U10U3;2UBK1^6~WE?2ID>3JOG@R1P?|2C%Y|L.QW^:(VDZ1N$<~>+>9+TM|B/P9_YUW^UO^*?3=+>^OK9N2Q3^73?IT^ MW8FM6= &6BB6(=)>A-

```

[illegible]

[illegible]

[illegible]

[WPCU]25\$ M0^*TMBN: <8WMB 1ST\TW0D777EM4YUXBZBIUBGCO.V7RX.@YGLA2P7V1 MFN:G \S-E,0TX+>H=2?DQF1UH=\$5@'07KKV3\AQG\I1@> ;>C/1=25JX=BB%Z MQE\$&YY16?>QIUS:9&C+&SLAW:"7E+&L.C:63R37"%^~^!+,Y&1A.=V% M&X,OK(7-!&?T2C.5.IW.NM/MD91]>=71%>Q*9+Y:;||S|EMK|JH2:HGB+PIW, M.L+50=AQJ8+2"? ECLCPBZIMJ&&S&P1(4 .#Z/7>X?>L= &#>4&Q1R0U! M5LS0:0B8T0A9ZRN 4H> 8G1.TWC("N*43WY, &9U1G:=J0\$18YN&G+JCKO"91 MYPB:\$.00431\$J \L13+&KJ^FOYL:~LJG 7%Z1WU0U^+JRS2A-7*SSRM _MAGN2"ZLFWX2M7/L7/CI4IYIN 45ZMN1N:9B:6\$>7.T<J>XSDH/C/G5FH:URH3 MWE#C?^LOK <?> (B))LR/&8N3B-N->C*R316\$IW,KPI=P/4.7 M(7^R .l@H>^>|RUF6JL*RP\$QOE:<|/(IXO-l^#F8 YOS#BIC/DF2 (C*1 MR X-!&-(+/(C*1=XW1T%0\$XRI=CXCX#9)>B>D| IOMNKAEO/LAUYO/H +!5+ M P04 ^ .A U9/201)5U1 I|U@> %'0 -!G:OM.C R-# V.S?8V%L M+GAM;5=ZV <+A+ 2L#1#SH?<\$@> /Q*TB9-KMCDX2Y>>PT VK.M/12UQ042T MY):4&~ ^?4M^L7^4HK+>FB;|L.YR9D9H2P4YU!>JW!E#1 .9.WOI ML=|D .X< >WH "MR62RYIS<X "sL.O>YCL 2?2? |#X |L M=HYO2K M& :20?/BCR91G1GVKL "? Q*^00PB CVI2L-A+X"3E(G3>?5DL00A! HND MXT >?^I<Q!>COSX @900.CIS63=OY%Z2 9I? Y^?2DMID @F=&OI^U/F8, M.R.006\$;L^#E/(TG(?!>(OSID_C/ V#0X _?^! ->OU.V1+|IM, ^PEIW#1& M#<C< |EQ.T APLPEOC858!&97&4D=W^?|COWWYXIU>7> PVS/HW.W6 MG.M&N.06:9D:913A/G&C\$W!W?7021A!&S&4180? OMES4:B1Z/HI^QX=L7%NOFOI<6 M!^2\$-W#FB3IY>NM>=<+1BT!K7_QF_X3PTJF>Q>B/B?Y^3.,#+RMF7.816;<134 _9KQ|B.CL>^3&\$?< M^5R3\$D/(-@|I%=>=>1A%#N X%(5O! /K&5VX0U> ^!+8.3<~<2P(OIW\$5+1 MK=&IRZD?^7J1B@>|J-!8.F.ICTC<XOE:IP\$@>(6TV31-8FB)>|I^#YB:R.#P^?0> M4|B>A.H^*7H0YQO^1\$T^Y-OTT^79>C: NL47Q9\$PIH\$<VR!F\$E:MJ M|N|N|.IFK+J.~ O-NO5E\$? KL=5B74|B(3^P#TD%) R9Y.UW19=|KPE+&L91P1|ONX2.CX\$5H<3.N?>TMO:TM8H=E:F/K M5^6D:~\$XN>=LUM5P\$=36^LZK9?Z:EZA59&8U.YML8^IZ7+&#SFT:Q(OYA MG.#YB18^+)|UBJTYSE<-UVM+1DTRL6:GU\$ -D6UJ^4-4ZG:@^~^TXE&|Q@O^10 %? (H@&#&1A-!& M|V1IBD31^1TT|N|81-B@> O-VTYCIUQV!&8ZX# M^?K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1CQ1RL&| |6^!+7SM|Q|>|8R|_@130F#F5J|YKJ\$? "WIS<=<|G^60|M7:~* MTWOW^~^E.V&B|Z|IS:E9DR#2 2_|2>=<L.VR=N-DN:6R\$X18V<K1R86^>M0\$C51& >|F#&+M^&FEF|X2:4S2U!>=<L.YTREI "V1G+WSR!S^M."K^3>?0PD-15\$NFS& 7Z/B\$8I>U#>=<65>VY:O9E3FXD=V^B5\$4G~K|K1 M.O:BO6:VQMSUW7MP2? ^+6E|POPI? M=ES_ADZAI0EXVQID|TVAEQ^&J|N>N>(&GH-0LZ4V+&TRIS9,I9=8RW*T:TIF M.MJ|= &0K1^B".(G?Z)V4^~!_V.HOE)S^*R@>^1|B|&OF_P|UXT<4B^9C9 MIG U2%6BDLXV6KUJ#>~*RGP+&*X1 2+!>4J;Y MZSYBN.N,|6E(GFGETS=(LUVN:VTZN-|I=+|YILV^M^?>S^P_F6_LQ1>I>E!> MM&|BFRWYVSM8A1M54H|ET^R^XQ|A:4?E5=8JVS%&+ (LLDLC|>5XM>WMCU5 M&G&H5HTK=79J@>|&6^&DH98E-H:O^>X6F1E.7W.LW@>+18OJ.X%HA7| H71V.M1

2R@EPVDE71#2CM2QO_YQ!=Xc,Of\$!=9C,/>95<.GCIL,R2OS2FI,MT+EQN<+19Y\$:-2"APFIHFUC@_D%Q*1>8;G:ID891WDE&XWITB) 8NS:
 M8B_80%,>T1U1UPRJ EEW@6IG@PQ05%:S2>WV/V7B_M:~F5R(O)04XA2R:JTVH~%KDG6"!!~%R/SYQ96L1J3W0@J-6O*+XN?ORS>+>+J+G/GIN>WVY1!=\$V\$!><J,U;J13)>-30I7
 M17+<XS">-(IR8FA) HZ813UO(CT,PDQK\$S2!>Y<+15M)@DVY2X?Q\$!M5HV+>+!>STKH+YF456121>G!>WY@P=1@9FCF#E#>+>2)>"2S1"GAH>(&V#:#?
 WH1L/Z"U@.A0932B/BW@_~P,X56!>O_M4_76O@~C~3:56;4WKTPQK(N;+&IFGJLIRK!?!28T3Z,%/87=HXZLBH.
 M1=P2CUD?F@>8S:X1D>RKR="49:W18R RHGBM:F1G1+H6(!=GUJ3WZ);@JNPEJ%6MGGPVLGI?Q@Y,C>D_M103%IA6FVY~*M-6WR&:#8&51:~%<-&:
 J53A/8Z2A?4),Q21SY>+8RHOHJIA&~E+!JY_085I@>SN+A_(E;~%U<10C_M=SRI=B/I=8A5FI&DG,ZALP86P)J1UGOYK,KP0JCM<TBV->@S\$U_0Z-2_MIGJIV0SUOYH5_U'CBUI
 I/@M>=SJK9VIX MN_P.R400@XL20ZUEV-GP25ID?14%4)U@VHKHT2,N8+08FT+<7>E>X3GA
 M=HIK@M#26YOK_HB~MSQFOH+2+>+W+T+BV?DSRWOTB?14DOTIW_M_T0.G*4Y,23IU9@)MU8*5JBVQ4_+M/@_PEIN"(??I9=N4V>+7.IC^08UY_M-
 C,47:U>~*FJ?29W,WGG?29"C3<1ITMN,BH2~8H0@ZG1;_I#R_20W_P_M4\$N!1!0(Z\$55%5M)6%6S/I+@10.5/UJY1<~&XDB?<
 X_YG=!=5G/55F4E5>+CIZ>V;5?7"UTJSD?77.MS6-E5SDN4@XBP&44IOW"9)5DIR@(!7IMK,3*7"W2D#1(!U;17+ZWL
 M7E7D89596N3_JMW;J1LV@>%TE4;_S=UINCQ>WQ<7WY&JCO(DRHHJ<MMW_M2=?>9_I0_?>O=C_?I2_Z_BBG^80I=I356510_*?Q_52%VU%)TBJ!>*MPILLXJCES6I!#-
 %P+>_61C@>_QVW?7I!<~%KEW!65SYNP+>1ZOY>5%_J/M_F7C?2EPG30EKFIEG1U1.5Y4^<U_~Z";01@!(WOX)0I/S9IOHWN;M\$2=DO%6ZZ_PU2_YIGM-
 RI!(SOIY?;@>SOE?6@Q@P=1!<~%66S MP/F~!#PR-IN3+!J!J?5M?<2_+9I3JOT_+!2_>><@_I_X_M_**Y~M21&5I8J&XJ>X8_9NCL1^4+1659KJO@_56.C_FMUWID4,PB:
 M@>S5EHF5F&FDJIX7QK76TOKC?F_Q8:S8~_P_IWJW@B*8;9_5Y^@_A~M16-M5N2%2>+!I19_Y<5I1_~E"67G7627U&KYDX+4N;I!_MHJMI6HX~DG31W%F%4H-
 \$\$\$M)SF80232BB3>ZG3CK3KJF~Q&T~C~G9_~MWS1+>M_G\$5~9?5K~EMU#6!1489M5CPMK=C&S_~WGD(H?>_R8_YD_~WV3UBP_P_M#%#_DI^>5RX1<1~I-
 D4F~<K\$Y8JO2@_I1J5L64JIDCGI_M.S0@CHPG:3KF@~?<KJT_Z3C-2_&ATVW_MM10(2G_97G49FG^4-EDE,V>?<S<!(Q@+&HF&4&=282ITP?70_B.V:Y>+DHY_MWC@X9TAR:<
 C/N2/<66Z2/DIL~POH9/N8O!P54IT^4I3X1W_ZI2OZD9;D_MPH8R8IOHQH7IG>YKJ_M7P>8A0:2!N0>W6\$N8:"DIB2?_2DYS1ZBUHIHM!="#I9E5C3!<~%X^BFA
 MJ?6#~>V3I+IX!>+>A!E9WG-D?E7(XI9;=,%#&+!&IP";-S7J)IP4<)D#ITZW9MG_M_A+!%JKPV>~L#<<6_W9-!XJ?~%9YOIMJ!>~0*~!@36H~Y^F\$4<6D&(IV
 MJH~*370D(M2!\$Y4END3C1,OT^@<S=(Z1>5Y44I83S...>@/M)JY910L_ODWIK_A_D67I2CZX=XV+IQ:~O~Q16BX9NOQ13TV3M#<_MYBW9~+XF^5*9^TD
 D+3E(XIQ@_HY+<P6J@?QY-RU>+>+;#8@>126_MG7P3KDBUI!>HGC@Q1?7>R&C7_V#XYP^<X1C9>+5_89+&1&WX99,SAEG
 MB&K2G(F#)_R_S<~<NWL2,C2M,2M>#~!<Y/U>:LEI^?+FD3XP>@>N_DJNS3_54MTK4_ION6D&_@OLN&R~@H-X747LZ<[45XN_83FX7I7I(EIOZH7H7;UQU!^H
 MS82\$>NA^VLGB~.BFO.CGQ\$S112D>8JW&W?W)QI5FY(OP)!7I<~S6;0_Q@D_M\$4>~SUL8C=O3I>CH316KM,"2%2>=#/IU~9W=IXAVIGF!A@!#0H31"AKT_MV!1#M;D%CL-A
 ZOY^??31YUWV\$9=1-&W778>69%J/IJL_-IG>3R;9>RPD_M>S^~9.I?SR39>X0D^_#2+B6_1\FX6U"GT@D4SNGA:PY60\$2V0PHI3,2_MK6"SD(D<C-BV!-
 =S1_5%64Q81I1V22DS3M?27U)H2&5_V9U)TP6ZW59_M1\$C7^GH5_16/BLAB^~A-N_5J3\$SRWK_N??"H2ICXM(TG3V1+NM?)TJZMN_M:L&Y_1WK6&A<~C1A;J9_L^@&#A-B;N?<
 A_IJ&OR77MRGIL_I1OLPG60 MICD"?_UA<D"~E&PW&A-M_JM_~2LIBRISBZINHL8(RXJID)25%Q\$0K7PM6EI:5(N)O>D3_JIRI4!>:(6_E!&A-H,G8TQ?<
 5YH_4Z;FZ/I(3A%5&BD_MIT^U<~ZJLVH8C29<@>_96GH3YF>~K&C8IK?M1_ZKP69PVD7@_(BBX56(I?Q_M9>+V:WZXVM3XM+@%E_0,39_2A;)~Y#89_#74%
 MK%K(4T;C&Q\$!\$>_~WJLWK&+K=1K9.8JY_U.R5I&4@4R_56NB9;1K?<3_3M4J19L1&TFE-ZS18I?>7B3?J@>+>44EA(84FV~X!^I^TD@>=>7=>P
 MVA57191A)E5TCY6S770MRND\$LBPP9O=C\$M_<6X\$4@>~<DK_-2TK24#WS(C<_MAE>~>6MU_1BNV149_I-#>TS*7I9AH9="SIAE!19.HK%_N2@8MBF\$JSZJ_M!^IQC!=3#A-
 C2U8_-SOZ!P8DX&(!^)<_GS~K&~B_9G^_H\$EY(IT?T^<~>68(MT,ATGI_U_@Q\$~1_U>~4H0%08H9^!IB)56;DK0C<~X_IQ0>=>~S3\$G(M<8_D_I&F_RU)
 %6I:QG"MAC="B1<50+<@>:E2:9<@>=#IBJ!>I/PE50<M_D_MU@=(~>6AT17%6P)MS1J6>3(EWQV"?5.6>PAMZ?<=<AX&ZOYD\$W&79?13?QD<~>E64T6S: MZV3:
 <2X>=>BKM,I^>1*8)9Y_M_!E20A*OBTGRG~&A8D&1FP,4RG_9#7_!M1_MJ,~IAR&6@<XG25N 4MZI/L>~Z_3MK_4>+>P-IP80_~"ATTCBXH(X)1_M/9B<1+<DG_IESJE!I!2<@>A
 I1CB9826H<G>J^T_&MF_>O>2H!A1+(Z,D_?I100NH49E87!<IONLC_MZBIX@T73?P&H"N%?)_TE#H~_C9:IT5+Y3R1!<~%K5\$RC~S^<^2?>+U!A_M~RQ(91RV/9\$14?<
 HHK?27GAEV)U1_N?<5;Z~ZOTAKV^B_R!+(I_!>+5LR&_M_5I;OD:8I\$ZP4B@X?6S(OQK3ALN~%QJ5!>4_>2_~MAL^X>4^@ICWY_EUK&AYOLKI_IU?~8GCH_P1M10DX6:M\$N;IU/
 AQS829719137+>Z"A~&44HOIG.OLNHXC\$ZV>~<@>OY_M>W=F=23;M~>W^Y?26V3^>+!+BX6515;2J>+>C"/_9199P3BZ^6IP9J@I_4?=>M0?8O>M1>?XJGGQ~"@?_F&KUJ@~P
 COTIGFBY~"IXQGSAN)W30P@?>231&YXP_ MD70J_D.N+920AOZM(AWYR&18YGV2\$T718D?0S?2K71)E+X_P(I_M6FH62\$S^B_IU\$94W+15**DG2-RIT4.24&
 (FA8H<FY@G7A8CO">+>1(MM)S&O4~W~>E:8>(SE4/&TTT)OP6U+EI!EV4J5646YW~!IAWV\$1_OIS_M199\$O1(M~/UGN_915!0AI^B_V5ADF^A@_!AR2I/-
 O&G\$2

[illegible]

Q=ZG64Z13A9NDK* K_3IX^O6@ MEM^OW(TG68<KKU6)=I^3*(C@ISJ)2?KCWE>IX^5&_C2K(B)7K7I0B6H4KHDI^YCPM<^8_M/GIWWEXS^T9TPXPJXS\$BZ6I^7)EAIJ.L+3L.Q6.G6JEX5-Q+2+>7>9D1 MXVIOX\$Z19F3C2?_A1^<67_V^<#&#I+^/R5!^EFFIXUIJYV&I5Y^P=P^ ME^K^E.G I\$[F#:#H-0Q4L^#+C18.UY7ICN1(3>_RL@B0>+7>7B/D63A4EYSG^M FHF^21^LW1X74<C_K7STOZ2?DJP63/ZI/GIWW&Y2U)^K7FE=1 M-K^I^ZOX^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&L3+&7L.MZPW11.TC15OX^<^GE2M^M^M^49F53X.Q+X)G^*KHQI5WQ78^7L^>1+^Y4L1@3B\$G^+>QDM7/ MS1UT-NL7P^7YXEOIU<ORHXII4YA-U12+D+180<+^/PCEUY<97&BYJBNV\$S M+=>GQ(N7^7A.019-4UY59+EO\$^BTK\$>V7R\$ X>S^VRZCVL;R1.9E7K^M^IQH W9 @.SW1=PT@B8V.KS[5PB<1+^7+&

gaap:FairValueMeasurementsRecurringMemberSINT:CommonStockWarrantsMember 2023-12-31 0001269026 us-gaap:FairValueInputsLevel3Memberus-gaap:FairValueMeasurementsRecurringMemberSINT:CommonStockWarrantsMember 2023-12-31 0001269026 us-gaap:FairValueInputsLevel3MemberSINT:CommonStockWarrantsMember 2022-12-31 0001269026 us-gaap:FairValueInputsLevel3MemberSINT:CommonStockWarrantsMember 2023-01-012023-06-30 0001269026 us-gaap:FairValueInputsLevel3MemberSINT:CommonStockWarrantsMember 2023-06-30 0001269026 us-gaap:FairValueInputsLevel3MemberSINT:CommonStockWarrantsMember 2023-12-31 0001269026 us-gaap:FairValueInputsLevel3MemberSINT:CommonStockWarrantsMember 2024-01-012024-06-30 0001269026 us-gaap:FairValueInputsLevel3MemberSINT:CommonStockWarrantsMember 2024-06-30 0001269026 srt:MinimumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputRiskFreeInterestRateMemberSINT:BlackScholesMertonValuationModelMember 2024-06-30 0001269026 srt:MaximumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputRiskFreeInterestRateMemberSINT:BlackScholesMertonValuationModelMember 2024-06-30 0001269026 srt:MinimumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputRiskFreeInterestRateMemberSINT:BlackScholesMertonValuationModelMember 2023-12-31 0001269026 srt:MinimumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputExpectedTermMemberSINT:BlackScholesMertonValuationModelMember 2024-06-30 0001269026 srt:MaximumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputExpectedTermMemberSINT:BlackScholesMertonValuationModelMember 2023-12-31 0001269026 srt:MaximumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputExpectedTermMemberSINT:BlackScholesMertonValuationModelMember 2024-06-30 0001269026 srt:MinimumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputExpectedDividendRateMemberSINT:BlackScholesMertonValuationModelMember 2024-06-30 0001269026 SINT:CommonStockWarrantsMemberus-gaap:MeasurementInputExpectedDividendRateMemberSINT:BlackScholesMertonValuationModelMember 2023-12-31 0001269026 srt:MinimumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputOptionVolatilityMemberSINT:BlackScholesMertonValuationModelMember 2024-06-30 0001269026 srt:MaximumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputOptionVolatilityMemberSINT:BlackScholesMertonValuationModelMember 2024-06-30 0001269026 srt:MinimumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputOptionVolatilityMemberSINT:BlackScholesMertonValuationModelMember 2023-12-31 0001269026 srt:MaximumMemberSINT:CommonStockWarrantsMemberus-gaap:MeasurementInputOptionVolatilityMemberSINT:BlackScholesMertonValuationModelMember 2023-12-31 0001269026 SINT:BusinessLoanMember 2021-07-20 0001269026 SINT:BusinessLoanMember 2021-07-192021-07-20 0001269026 SINT:PersonalLoansMember 2022-06-30 0001269026 SINT:PersonalLoansMember 2024-01-012024-06-30 0001269026 SINT:PersonalLoansMemberus-gaap:RelatedPartyMember 2024-06-30 0001269026 SINT:InsurancePremiumFinanceArrangementsMember 2024-03-012024-03-31 0001269026 SINT:InsurancePremiumFinanceArrangementsMember 2024-03-31 0001269026 SINT:InsurancePremiumFinanceArrangementsMember 2024-06-012024-06-30 0001269026 SINT:InsurancePremiumFinanceArrangementsMember 2024-06-30 0001269026 SINT:TwohousandTwentyFourAprilRegisteredOfferingMember 2024-04-052024-04-05 0001269026 SINT:TwohousandTwentyFourAprilRegisteredOfferingMember 2024-04-05 0001269026 SINT:TwohousandTwentyFourMarchRegisteredOfferingMember 2024-03-262024-03-26 0001269026 us-gaap:WarrantMember 2024-02-02 0001269026 us-gaap:WarrantMember 2024-02-022024-02-02 0001269026 SINT:ClassEWarrantsMember 2024-02-02 0001269026 SINT:ClassFWarrantsMember 2024-02-02 0001269026 SINT:CommonUnitMember 2024-02-02 0001269026 SINT:PreFundedWarrantUnitMember 2024-02-02 0001269026 srt:MinimumMemberus-gaap:OtherInvesteesMemberSINT:ClassEAndFWarrantsMember 2024-02-02 0001269026 srt:MaximumMemberus-gaap:OtherInvesteesMemberSINT:ClassEAndFWarrantsMember 2024-02-02 0001269026 SINT:ClassEWarrantMember 2024-02-02 0001269026 SINT:ClassFWarrantMember 2024-02-02 0001269026 SINT:PreFundedWarrantMember 2024-02-02 0001269026 srt:MinimumMemberus-gaap:OtherInvesteesMemberSINT:PreFundedWarrantsMember 2024-02-02 0001269026 srt:MaximumMemberus-gaap:OtherInvesteesMemberSINT:PreFundedWarrantsMember 2024-02-02 0001269026 srt:MaximumMember 2024-02-02 0001269026 SINT:ClassCAndClassDWarrantsMember 2023-02-10 0001269026 SINT:ClassCAndClassDWarrantsMember 2023-02-102023-02-10 0001269026 SINT:ClassDWarrantMember 2023-02-102023-02-10 0001269026 SINT:ClassCWarrantMember 2023-02-10 0001269026 SINT:ClassDWarrantMember 2023-02-10 0001269026 SINT:TwoThousandAndTwentyOneEquityDistributionAgreementMemberSINT:MaximGroupLLCMember 2023-10-112023-10-12 0001269026 SINT:MaximGroupLLCMember 2023-10-112023-10-12 0001269026 SINT:TwoThousandAndTwentyOneEquityDistributionAgreementMemberSINT:MaximGroupLLCMember 2023-10-112023-10-12 0001269026 us-gaap:SubsequentEventMembersSINT:MaximGroupLLCMember 2024-07-11 0001269026 2023-01-012023-12-31 0001269026 2022-01-012022-12-31 0001269026 us-gaap:EmployeeStockOptionMember 2024-06-30 0001269026 SINT:NonExecutiveMember 2024-01-012024-06-30 0001269026 us-gaap:EmployeeStockOptionMember 2024-06-30 0001269026 us-gaap:EmployeeStockOptionMember 2024-01-012024-06-30 0001269026 SINT:EmployeeStockGrantsMember 2024-06-30 0001269026 SINT:EmployeeStockGrantsMember 2024-01-012024-06-30 0001269026 SINT:IndustrialLeaseAgreementMember 2021-08-19 0001269026 SINT:IndustrialLeaseAgreementMember 2021-08-192021-08-19 0001269026 SINT:TechnologyAssessmentAndTransferIncTATMemberSINT:IndustrialLeaseAgreementMember 2024-06-30 0001269026 SINT:TechnologyAssessmentAndTransferIncTATMemberSINT:IndustrialLeaseAgreementMember 2024-01-012024-06-30 0001269026 2024-05-232024-05-23 0001269026 2024-06-11 0001269026 us-gaap:SubsequentEventMember 2024-07-012024-09-30 iso4217:USD shares iso4217:USD shares pure utr:sqftfalseQ2-12-310001269026 10-Qtrue2024-06-302024false001-3362ASINTX Technologies, Inc.DE84-13752991885 West 2100 SouthSalt Lake CityUT84119(801)839-3500Common StockSINTNASDAQYesYesNon-accelerated Filert ruefalsefalse7472930.014557000334000068000720004340006850003840005390004450008880004100080000586100055320005750003330004815000482600019000210273804000-

270714000864600087720001529600001536500037800023500066070004750004481000273000859000372000859000308000154600010470002240001040004470002220006350001

2710000-3844000-5907000-72000004000600020002300047000420000840000120001200040009650003286000497100055000078600027000-

3000330005000506000100900028170004272000-2204000-2455000-3090000-2748000-2204000-2455000-3090000-27480002600026000-2204000-2481000-3090000-2774000-

3.49-120.63-6.81-173.02-1.28-1.64-3.49-121.91-8.61-174.66-3.61-154.13-13.62-445.06-1.17-1.58-3.61-155.30-13.62-

446.646312112203513587631588369786822183467756164132832711268159000.

262455000570400086000860009900445700043570003830003502000550200085066881-2000-2000108000108000102-293000-29300028220251278693000-

262748000159450007100071000251000251000780-269-26000-260002600026000-2455000-245500025621040279015000-2652030001381200025626603279486000-

27071400087720005000050000

[illegible]

[illegible]

Times New Roman, Times, Serif; margin: 0pt 0pt 0pt 0; text-align: justify"> /></p></div>
<div data-bbox="112 10 889 963" data-label="Text">
<p>
The condensed consolidated financial statements have been prepared assuming the Company will continue to operate as a going concern, which contemplates the realization of assets and settlement of liabilities in the normal course of business, and does not include any adjustments to reflect the possible future effects on the recoverability and classification of assets or the amounts and classifications of liabilities that may result from uncertainty related to its ability to continue as a going concern within one year from the date of issuance of these condensed consolidated financial statements.</p>
<p>
To date, the Company's operations have been principally financed from proceeds from the issuance of preferred and common stock and, to a lesser extent, cash generated from product sales. It is anticipated that the Company will continue to generate operating losses and use cash in operations. The Company's continuation as a going concern is dependent upon its ability to increase sales, and/or raise additional funds through the capital markets. Whether and when the Company can attain profitability and positive cash flows from operations or obtain additional financing is uncertain.</p>
<p>
The Company is actively generating additional scientific and clinical data to have it published in leading industry publications. The unique features of our advanced ceramic materials are not well known, and we believe the publication of such data would help sales efforts as the Company approaches new prospects. The Company is also making additional changes to the sales strategy, including a focus on revenue growth by expanding the use of silicon nitride in other areas outside of spinal fusion applications and moving into other advanced ceramic materials outside of silicon nitride. The Company has also acquired equipment and certain proprietary know-how for the purpose of developing, manufacturing and commercializing armored plates made from boron carbide and a composite of boron carbide and silicon carbide for military, law enforcement and other civilian uses.</p>
<p>
On February 25, 2021, the Company entered into an Equity Distribution Agreement (as amended, the "2021 Distribution Agreement") with Maxim Group LLC ("Maxim"), pursuant to which the Company may sell from time to time, shares of the Company's common stock having an aggregate offering price of up to \$15.0 million through Maxim, as agent. On October 12, 2023, the Company entered into an amendment to the Distribution Agreement, pursuant to which the expiration date of the Distribution Agreement was extended to the earlier of: (i) the sale of shares having an aggregate offering price of \$15.0 million, (ii) the termination by either Maxim or the Company upon the provision of fifteen (15) days written notice, or (iii) February 25, 2025. No other changes were made to the terms of the Distribution Agreement. The Company currently has registered up to \$3.1 million for sale under the Distribution Agreement, pursuant to the Registration Statement on Form S-3 (File No. 333-274951). As of June 30, 2024, the Company had \$0.07 million available for sale under the Distribution Agreement. On July 11, 2024, the Company filed a Prospectus Supplement with the SEC increasing the amount available for sale under the Distribution Agreement to \$3.1 million. As of June 30, 2024, there have been 12,360 shares of common stock sold under the 2021 Distribution Agreement for gross proceeds of \$1.0 million. The Company is subject to General Instruction I.B.6 of Form S-3 which limits the amounts that we may sell under the registration statement over a 12-month period to an amount equal to or less than one-third of our public float. The shares of the Company's common stock to be sold under the Distribution Agreement will be sold and issued pursuant to the Form S-3, as amended, which was previously declared effective by the Securities and Exchange Commission, and the related prospectus and one or more prospectus supplements.</p>
<p>
On February 10, 2023, the Company closed on a public offering of 0.1 million of agent warrant offering costs recorded as derivative expense).</p>
<p>
On February 2, 2024, the Company closed on a public offering of 12.0 million. Of the \$12.0 million of gross proceeds, approximately \$4.0 million were allocated to common stock and prefunded warrants (\$4.8 million net of offering costs) and approximately \$6.7 million were allocated to derivative liabilities (with approximately \$0.7 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense).</p>
<p>
On March 26, 2024, the Company closed on a public offering of 4 million before deducting offering fees and expenses. The Class E and Class F Warrants in the units will be immediately exercisable at a price of \$50.00 per share. The Class E Warrants will expire five years from the date of issuance and the Class F Warrants will expire eighteen months from the date of issuance. Of the \$4.0 million of gross proceeds, approximately \$0.6 million were allocated to common stock and prefunded warrants (\$0.5 million net of offering costs) and approximately \$3.4 million were allocated to derivative liabilities (with approximately \$0.5 million of cash offering costs and \$0.1 million of agent warrant offering costs recorded as derivative expense).</p>
<p>
On March 26, 2024, the Company closed on a public offering of 4 million before deducting offering fees and expenses. The Class E and Class F Warrants in the units will be immediately exercisable at a price of \$50.00 per share. The Class E Warrants will expire five years from the date of issuance and the Class F Warrants will expire eighteen months from the date of issuance. Of the \$<span id="xdx_908_eus-gaap--ProceedsFromIssuanceInitialPublicOffering pn5n6 c20240202_20240202

units">142,000 shares of the Company's common stock, (the "Offering"). Each Share was sold at a public offering price of \$9.40. The aggregate proceeds to the Company from the Offering were approximately \$1.3 million before deducting placement agent fees and other estimated offering expenses payable by the Company.</p></div>
<div data-bbox=

[illegible]

loss attributable to common stockholders, basic calculation">(2,481.</td><td style="padding-bottom: 2.5pt; text-align: left;"></td><td style="padding-bottom: 2.5pt"></td>
<td style="border-bottom: Black 2.5pt double; text-align: left;">\$</td><td id="xdx_989_eus-gaap--
DilutiveSecuritiesEffectOnBasicEarningsPerShareOther_pn3n3_c20230401_20230630_ztHhpbcWen4c" style="border-bottom: Black 2.5pt double; text-align: right" title="Net
loss attributable to common stockholders, effect of dilutive warrant securities">(964.</td><td style="padding-bottom: 2.5pt; text-align: left;"></td><td style="padding-
bottom: 2.5pt"></td><td style="border-bottom: Black 2.5pt double; text-align: left;">\$</td><td id="xdx_98F_eus-gaap--
NetIncomeLossAvailableToCommonStockholdersDiluted_pn3n3_c20230401_20230630_zBwBTYP0E7md" style="border-bottom: Black 2.5pt double; text-align: right"
title="Net loss attributable to common stockholders, diluted calculation">(3,445.</td><td style="padding-bottom: 2.5pt; text-align: left;"></td></tr><tr style="vertical-
align: bottom; background-color: rgb(204,238,255)"><td></td><td></td><td style="text-align: left;"></td><td style="text-align: right;"></td><td style="text-align:"></td>
left"></td><td></td><td style="text-align: left;"></td><td style="text-align: right;"></td><td style="text-align: left;"></td><td></td><td style="text-align: left;"></td>
<td style="text-align: right;"></td><td style="text-align: left;"></td></tr><tr style="vertical-align: bottom; background-color: White"><td style="font-weight:
bold">Denominator:</td><td></td><td style="text-align: left;"></td><td style="text-align: right;"></td><td style="text-align: left;"></td><td></td><td style="text-
align: left;"></td><td style="text-align: right;"></td><td style="text-align: left;"></td><td style="text-align: right;"></td><td style="text-align: right;"></td><td></td>
style="text-align: left;"></td></tr><tr style="vertical-align: bottom; background-color: rgb(204,238,255)"><td style="padding-left: 10pt">Number of shares used in per
common share calculations:</td><td></td><td style="text-align: left;"></td><td style="text-align: right;"></td><td id="xdx_980_eus-gaap--
WeightedAverageNumberOfSharesOutstandingBasic_pid_c20230401_20230630_zmaFIQOEoHa2" style="text-align: right" title="Number of shares used in per common share
calculations: basic calculation">20,351</td><td style="text-align: left;"></td><td></td><td style="text-align: left;"></td><td id="xdx_98A_eus-gaap--
WeightedAverageNumberOfSharesOutstandingAdjustment_pid_c20230401_20230630_z6TIGa6nOiw5" style="text-align: right" title="Number of shares used in per
common share calculations: effect of dilutive warrant securities">1,832</td><td style="text-align: left;"></td><td></td><td style="text-align: left;"></td><td style="text-align: left;"></td><td></td>
id="xdx_983_eus-gaap--WeightedAverageNumberOfDilutedSharesOutstanding_pid_c20230401_20230630_zgOHwr7bnFc3" style="text-align: right" title="Number of shares
used in per common share calculations: diluted calculation">22,183</td><td style="text-align: left;"></td><td></td><tr style="vertical-align: bottom; background-color:
White"><td></td><td></td><td style="text-align: left;"></td><td style="text-align: right;"></td><td style="text-align: left;"></td><td></td><td style="text-align:"></td>
left"></td><td style="text-align: right;"></td><td style="text-align: left;"></td><td style="text-align: right;"></td><td style="text-align: right;"></td><td></td><td style="text-align:
right;"></td></tr><tr style="vertical-align: bottom; background-color: White"><td style="padding-left: 10pt; text-align: left">Net loss</td><td></td><td style="text-align:
left">\$</td><td id="xdx_983_ecustom--BasicNetIncomeLossPerShare_pid_c20230401_20230630_z5mgppbqVG4dc" style="text-align: right" title="Net loss, basic calculation">
(120.63)</td><td style="text-align: left;"></td><td></td><td style="text-align: left;"></td><td id="xdx_989_ecustom--
NetLossEffectOfDilutiveWarrantSecuritiesPerShare_pid_c20230401_20230630_zDfma4TB1x948" style="text-align: right" title="Net loss, effect of dilutive warrant securities">
(526.18)</td><td style="text-align: left;"></td><td></td><td style="text-align: left;"></td><td id="xdx_984_ecustom--
EarningsPerShareDilutedNetIncomeLoss_pid_c20230401_20230630_zfd3yyj9GW1b" style="text-align: right" title="Net loss, diluted calculation">(154.13)</td><td
style="text-align: left;"></td><td></td><tr style="vertical-align: bottom; background-color: rgb(204,238,255)"><td style="padding-left: 10pt; text-align: left">Deemed dividend
and accretion of a discount</td><td></td><td style="padding-bottom: 1.5pt"></td><td style="border-bottom: Black 1.5pt solid; text-align: left;"></td><td id="xdx_98C_ecustom--
BasicDeemedDividendAndAccretionOfDiscountBasicCalculation_pid_c20230401_20230630_zUORvY3B9wf" style="border-bottom: Black 1.5pt solid; text-align: right"
title="Deemed dividend and accretion of a discount, basic calculation">(1.28)</td><td style="text-align: right;">1.5pt; text-align: left"></td><td style="padding-bottom:
1.5pt"></td><td style="border-bottom: Black 1.5pt solid; text-align: left;"></td><td id="xdx_981_ecustom--
DeemedDividendAndAccretionOfDiscountEffectOfDilutiveWarrantSecurities_pid_c20230401_20230630_zETE8afmN36" style="border-bottom: Black 1.5pt solid; text-align:
right" title="Deemed dividend and accretion of a discount, effect of dilutive warrant securities"></td><td></td>
style="padding-bottom: 1.5pt; text-align: left;"></td><td style="padding-bottom: 1.5pt"></td><td style="border-bottom: Black 1.5pt solid; text-align: left;"></td><td style="text-align: left;"></td><td></td>
id="xdx_987_ecustom--DilutiveDeemedDividendAndAccretionOfDiscountDilutedCalculation_pid_c20230401_20230630_zTeVfqyGdXja" style="border-bottom: Black 1.5pt
solid; text-align: right" title="Deemed dividend and accretion of a discount, diluted calculation">(1.17)</td><td style="padding-bottom: 1.5pt; text-align: left;"></td><td></tr>
<tr style="vertical-align: bottom; background-color: White"><td style="padding-left: 10pt; text-align: left">Net loss attributable to common stockholders</td><td></td>
style="padding-bottom: 2.5pt"></td><td style="border-bottom: Black 2.5pt double; text-align: left;">\$</td><td id="xdx_980_ecustom--
EarningsPerShareBasicToCommonShareholders_pid_c20230401_20230630_zDBPJIpuUsll" style="border-bottom: Black 2.5pt double; text-align: right" title="Net loss
attributable to common stockholders, basic calculation">(121.91)</td><td style="padding-bottom: 2.5pt; text-align: left;"></td><td style="padding-bottom: 2.5pt"></td>
<td style="border-bottom: Black 2.5pt double; text-align: left;">\$</td><td id="xdx_986_ecustom--
NetIncomeEffectOfDilutiveWarrantSecuritiesPerShare_pid_c20230401_20230630_zqvOJg5vjArE" style="border-bottom: Black 2.5pt double; text-align: right" title="Net loss
attributable to common stockholders, effect of dilutive warrant securities">(526.18)</td><td style="padding-bottom: 2.5pt; text-align: left;"></td><td style="padding-bottom:
2.5pt"></td><td style="border-bottom: Black 2.5pt double; text-align: left;">\$</td><td id="xdx_985_eus-gaap--
EarningsPerShareDiluted_pid_c20230401_20230630_zYGpUwREOQgg" style="border-bottom: Black 2.5pt double; text-align: right" title="Net loss attributable to common
stockholders, diluted calculation">(153.30)</td><td style="padding-bottom: 2.5pt; text-align: left;"></td><td></tr></table><p style="font: 10pt Times New Roman, Times, Serif;
margin: Opt Opt Opt 0; text-align: justify"><p><p style="font: 10pt Times New Roman,
Times, Serif; margin: Opt Opt Opt 0; text-align: justify">Below are basic and diluted loss per share
data for the six months ended June 30, 2023, which are in thousands except for share and per share data.<p><p style="font: 10pt Times New Roman, Times, Serif;
margin: Opt Opt Opt 0; text-align: justify"><p><p><table cellpadding="0" cellspacing="0"
style="font: 10pt Times New Roman, Times, Serif; border-collapse: collapse; width: 100%"><tr style="vertical-align: bottom"><td></td><td></td><td></td><td colspan="2"
style="text-align: center"></td><td></td><td style="font-weight: bold"></td><td colspan="2" style="font-weight: bold; text-align: center">Effect of</td><td style="font-
weight: bold"></td><td></td><td colspan="2" style="text-align: center"></td><td></td><td></tr><tr style="vertical-align: bottom"><td></td><td></td><td></td><td colspan="2" style="font-weight: bold; text-align: center"></td>

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

<table><tr><td style="width: 1%; text-align: left">\$</td><td id="xdx 986_eus-gaap--DerivativeLiabilitiesCurrent_II pn3n3 c20231231_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel2Member_us-gaap--FairValueByMeasurementFrequencyAxis_us-gaap--FairValueMeasurementsRecurringMember_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_z4oLMS5AnYbCk" style="width: 11%; text-align: right;" titles="Derivative liability"></td><td style="width: 1%; text-align: left"></td><td style="width: 2%"></td><td style="width: 1%; text-align: left">\$</td><td id="xdx 98E_eus-gaap--DerivativeLiabilitiesCurrent_II pn3n3 c20231231_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_us-gaap--FairValueByMeasurementFrequencyAxis_us-gaap--FairValueMeasurementsRecurringMember_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_z7A6RDMqL87I" style="width: 11%; text-align: right;" titles="Derivative liability">304</td><td style="width: 1%; text-align: left"></td><td style="width: 2%"></td><td style="width: 1%; text-align: left">\$</td><td id="xdx 987_eus-gaap--DerivativeLiabilitiesCurrent_II pn3n3 c20231231_zNXxZuA2sJxc" style="width: 11%; text-align: right;" title="Derivative liability">304</td><td style="width: 1%; text-align: left"></td><tr><td colspan="6"><table>397000397000304000304000<p id="xdx 893_eus-gaap--FairValueLiabilitiesMeasuredOnRecurringBasisUnobservableInputReconciliationTextBlock_zddkQ8HkRCa" style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0pt 0pt 0pt; text-align: justify;">The Company did not have any transfers of assets and liabilities between Level 1 and Level 2 of the fair value measurement hierarchy during the six months ended June 30, 2024, and 2023. The following table presents a reconciliation of the derivative liabilities measured at fair value on a recurring basis using significant unobservable inputs (Level 3) during the six months ended June 30, 2024, and 2023 (in thousands):</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0pt 0pt 0pt; text-align: justify;">Schedule of Fair Value Measurement Hierarchy of Derivative Liability</p><table cellpadding="0" cellspacing="0" style="font: 10pt Times New Roman, Times, Serif; border-collapse: collapse; width: 100%;"><tr style="vertical-align: bottom;"><td style="text-align: center;"></td><td style="font-weight: bold; padding-bottom: 1.5pt;"></td><td colspan="2" style="border-bottom: 2pt" style="border-bottom: Black 1.5pt solid; font-weight: bold; text-align: center;">Common Stock</td><td style="padding-bottom: 1.5pt; font-weight: bold;"></td><td colspan="2" style="vertical-align: bottom; background-color: rgb(204,238,255)"></td><td style="width: 82%; padding-bottom: 1.5pt;">Balance as of December 31, 2022</td><td style="width: 2%;"></td><td style="width: 1%; text-align: left;">\$</td><td id="xdx 982_eus-gaap--DerivativeLiabilitiesCurrent_I NS pn3n3 di c20230101_20230630_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_zVYe53WqWaz5" style="width: 14%; text-align: right;" title="Beginning balance">(5,126)</td><td style="width: 1%; text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: White"></td><td colspan="2">Issuance of derivatives</td><td></td><td style="text-align: left;"></td><td id="xdx 987_eus-gaap--FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityIssues_I NS pn3n3 di c20230101_20230630_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_zNOYmHUIxnl" style="text-align: right;" title="Issuance of derivatives">(6,650)</td><td style="text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: rgb(204,238,255)"></td><td colspan="2">Exercise of warrants</td><td></td><td style="text-align: left;"></td><td id="xdx 989_ecustom--FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityExerciseOfWarrants pn3n3 c20230101_20230630_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_zA7r81YpWm7" style="text-align: right;" title="Exercise of warrants">5,753</td><td style="text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: White"></td><td colspan="2">Change in fair value</td><td></td><td style="text-align: left;"></td><td id="xdx 982_eus-gaap--FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityPeriodIncreaseDecrease pn3n3 c20230101_20230630_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_z8ETy2Tiv4429" style="text-align: right;" title="Change in fair value">2,971</td><td style="text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: rgb(204,238,255)"></td><td colspan="2">Other</td><td style="padding-bottom: 1.5pt"></td><td style="padding-bottom: 1.5pt"></td><td style="border-bottom: Black 1.5pt solid; text-align: left;"></td><td id="xdx 98A_ecustom--FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityPeriodOther pn3n3 c20230101_20230630_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_z0fCvXiw7Fd" style="border-bottom: Black 1.5pt solid; text-align: right;" title="Other">1</td><td style="padding-bottom: 1.5pt; text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: White"></td><td colspan="2">Balance as of June 30, 2023</td><td style="padding-bottom: 2.5pt"></td><td style="border-bottom: Black 2.5pt double; text-align: left;">\$</td><td id="xdx 985_eus-gaap--DerivativeLiabilitiesCurrent_I NE pn3n3 di c20230101_20230630_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_z8Ym3M9TH1V" style="border-bottom: Black 2.5pt double; text-align: right;" title="Ending balance">(1,051)</td><td style="padding-bottom: 2.5pt; text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: rgb(204,238,255)"></td><td colspan="2">Balance as of December 31, 2023</td><td style="padding-bottom: 2.5pt; text-align: left;"></td><td colspan="2">Change in fair value</td><td></td><td style="text-align: left;"></td><td id="xdx 98E_eus-gaap--DerivativeLiabilitiesCurrent_I NS pn3n3 di c20240101_20240630_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_z3jtV3lAbn6g" style="text-align: right;" title="Beginning balance">(304)</td><td style="text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: rgb(204,238,255)"></td><td colspan="2">Issuance of derivatives</td><td></td><td style="text-align: left;"></td><td id="xdx 984_eus-gaap--FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityIssues_I NS pn3n3 di c20240101_20240630_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_zDwLHAWjmyjl" style="text-align: right;" title="Issuance of derivatives">(3,366)</td><td style="text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: rgb(204,238,255)"></td><td colspan="2">Exercise of warrants</td><td></td><td style="text-align: left;"></td><td id="xdx 98B_ecustom--FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityExerciseOfWarrants pn3n3 c20240101_20240630_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_zc8LVJEUH4" style="text-align: right;" title="Exercise of warrants">2</td><td style="text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: rgb(204,238,255)"></td><td colspan="2">Change in fair value</td><td></td><td style="text-align: left;"></td><td id="xdx 981_eus-gaap--FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityPeriodIncreaseDecrease pn3n3 c20240101_20240630_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_zmWjK6FCDeL4" style="text-align: right;" title="Change in fair value">3,286</td><td style="text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: White"></td><td colspan="2">Other</td><td style="padding-bottom: 1.5pt"></td><td style="padding-bottom: 1.5pt"></td><td style="border-bottom: Black 1.5pt solid; text-align: left;"></td><td id="xdx 98F_ecustom--FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityPeriodOther pn3n3 c20240101_20240630_us-gaap--StatementEquityComponentsAxis_custom--CommonStockWarrantsMember_us-gaap--FairValueByFairValueHierarchyLevelAxis_us-gaap--FairValueInputsLevel3Member_zN8I9ppHjHd8" style="border-bottom: Black 1.5pt solid; text-align: right;" title="Other">(15)</td><td style="padding-bottom: 1.5pt; text-align: left;"></td><td colspan="2" style="vertical-align: bottom; background-color: rgb(204,238,255)"></td><td colspan="2">Balance as of June 30, 2024</td><td style="padding-bottom: 2.5pt"></td><td style="border-bottom: Black 2.5pt double; text-align: left;">\$</td><td id="xdx 98C_eus-gaap--DerivativeLiabilitiesCurrent_I NE pn3n3 di c20240101_2024

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0pt 0pt 0; text-align: justify">The Company’s insurance carrier has determined that a covered loss occurred when the sintering furnace malfunctioned, and coverage is available for the Company’s repair of the sintering furnace. However, the Company’s efforts to fully repair the damaged furnace continue to be delayed. Management will work with the insurance company to continue to fund the repair of the furnace. When the furnace is fully repaired, management hopes to sell the furnace, and related equipment, to a third party. However, the full repair and sale of the furnace, and related equipment, cannot be assured. Therefore, in the calculation of the \$4.5 million estimated impairment charge, management has assumed no proceeds will be received from a potential sale of the furnace and related equipment.</p> the Company announced that its board of directors had declared a 1-for-200 reverse stock split of the company’s common stock. The reverse stock split became effective on May 28, 2024 (the “Effective Date”) at 12:01 AM Eastern. The company’s common stock began trading on a split-adjusted basis on May 28, 2024, under the current trading symbol “SINT.” The reverse stock split was primarily intended to bring the Company into compliance with the minimum bid price requirements for maintaining its listing on the Nasdaq Capital Market. The new CUSIP number for the Company’s shares of common stock following the reverse split will be 829392 703. As a result of the reverse stock split, every 200 shares of the Company’s common stock issued and outstanding were automatically reclassified into one new share of common stock. Proportionate adjustments were made to the conversion and exercise prices and the number of shares underlying the Company’s outstanding warrants, preferred stock, equity awards and the number of shares reserved under the Company’s equity incentive plan.1.001.0045000004500000“