

<b>Case No. :</b> <u>GTS20231020001-1-80</u>
<b>Ambient Condition:</b> <u>22 °C, 51 %RH</u>
<b>According Standard:</b> <u>■Part15E</u>
<b>Test Date:</b> <u>2024.2.1</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

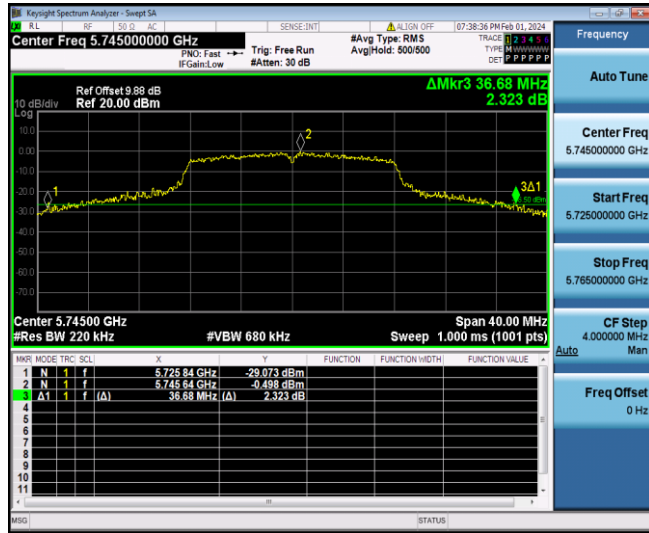
## Appendix E.1: Emission Bandwidth

### Test Result

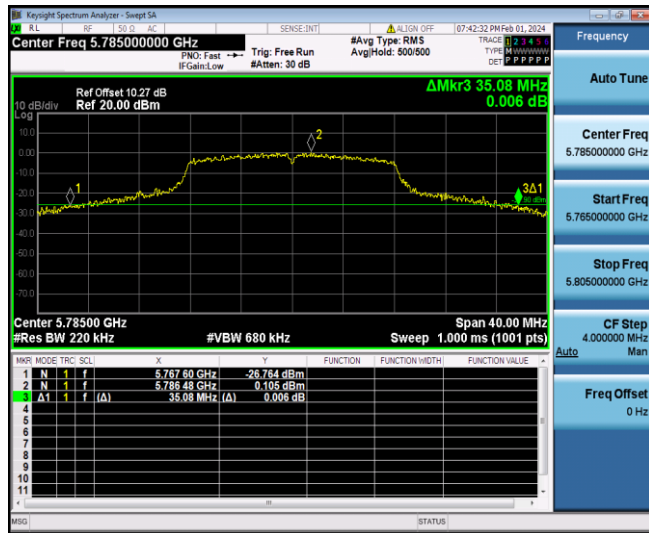
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	36.680	5725.840	5762.520	---	---
		5785	35.080	5767.600	5802.680	---	---
		5825	35.760	5807.480	5843.240	---	---
11N20SISO	Ant1	5745	36.560	5726.400	5762.960	---	---
		5785	37.080	5766.560	5803.640	---	---
		5825	38.000	5806.960	5844.960	---	---

Test Graphs

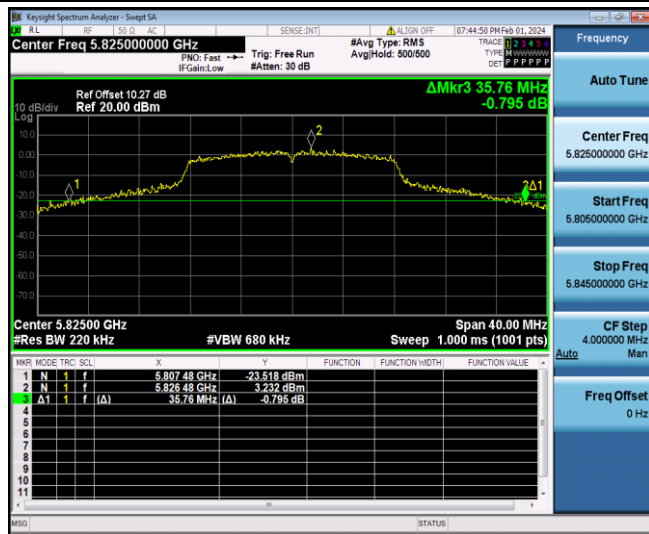
11A\_Ant1\_5745



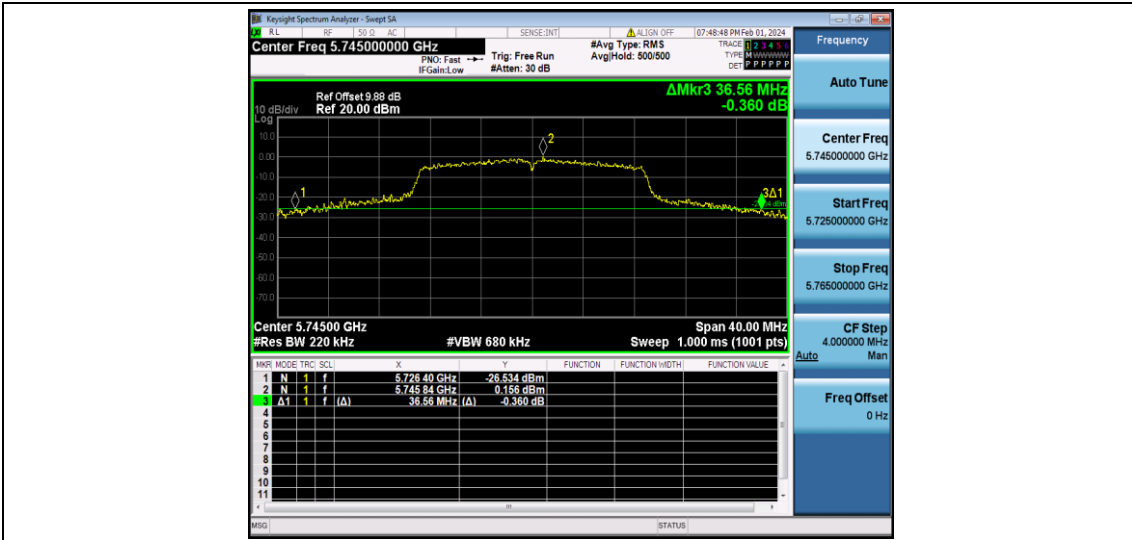
11A\_Ant1\_5785



11A\_Ant1\_5825



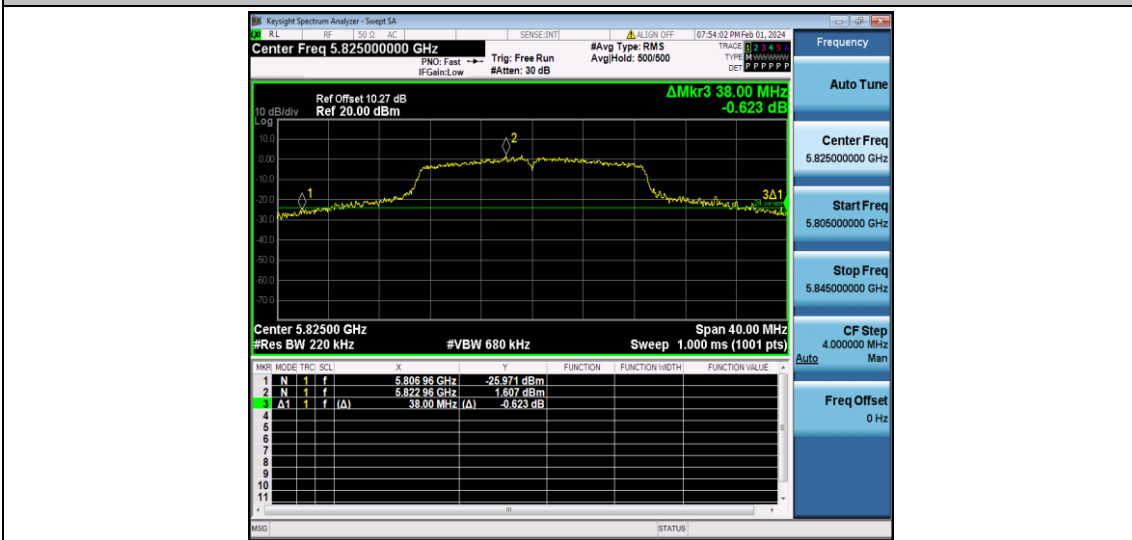
11N20SISO\_Ant1\_5745



11N20SISO\_Ant1\_5785



11N20SISO\_Ant1\_5825



## Appendix E.2: Occupied channel bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	19.403	5735.1484	5754.5514	---	---
		5785	19.797	5775.1017	5794.8987	---	---
		5825	22.665	5814.0045	5836.6695	---	---
11N20SISO	Ant1	5745	19.857	5734.9170	5754.7740	---	---
		5785	20.036	5774.8497	5794.8857	---	---
		5825	19.697	5815.4393	5835.1363	---	---

## Test Graphs

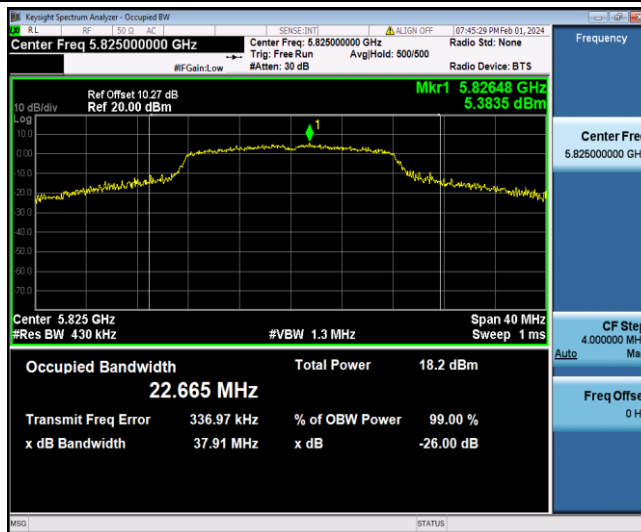
11A\_Ant1\_5745



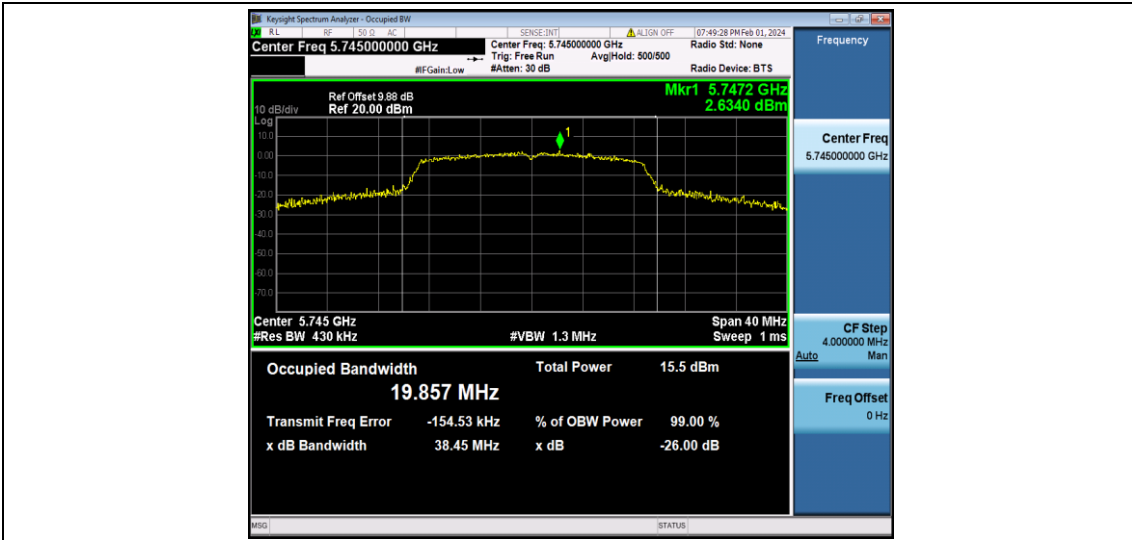
11A\_Ant1\_5785



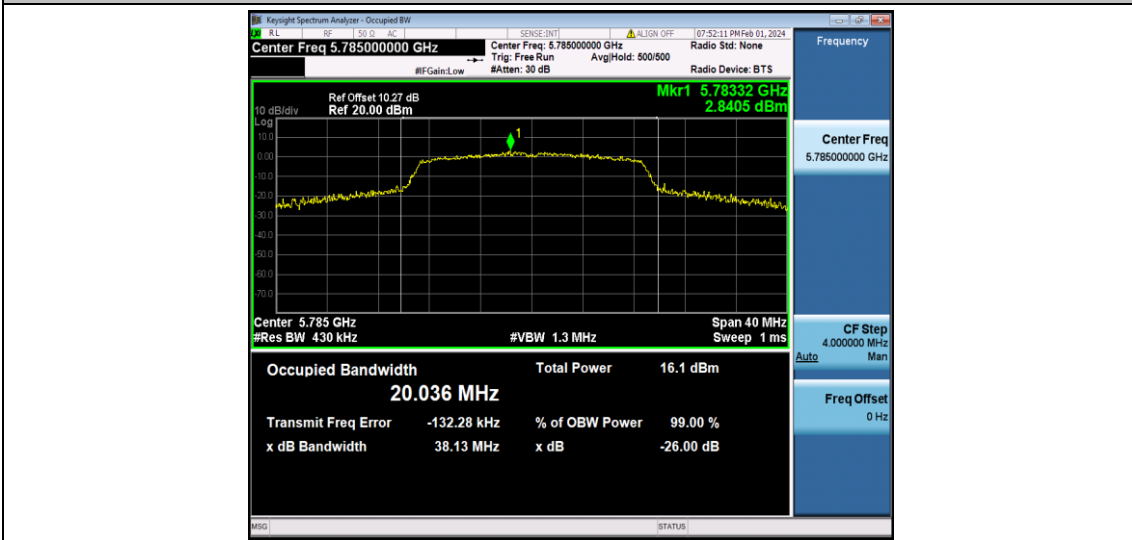
11A\_Ant1\_5825



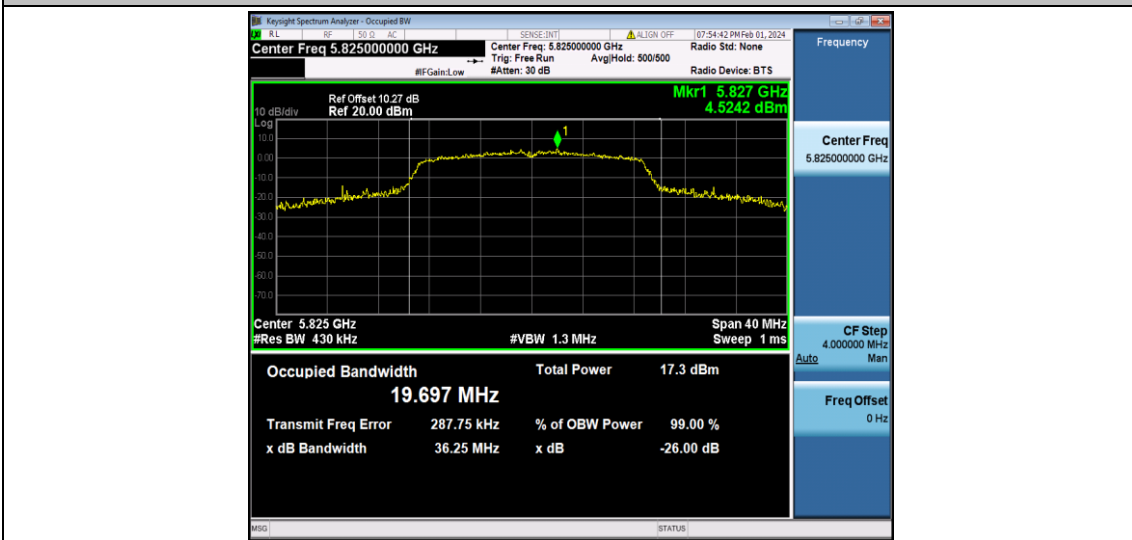
11N20SISO\_Ant1\_5745



11N20SISO\_Ant1\_5785



11N20SISO\_Ant1\_5825



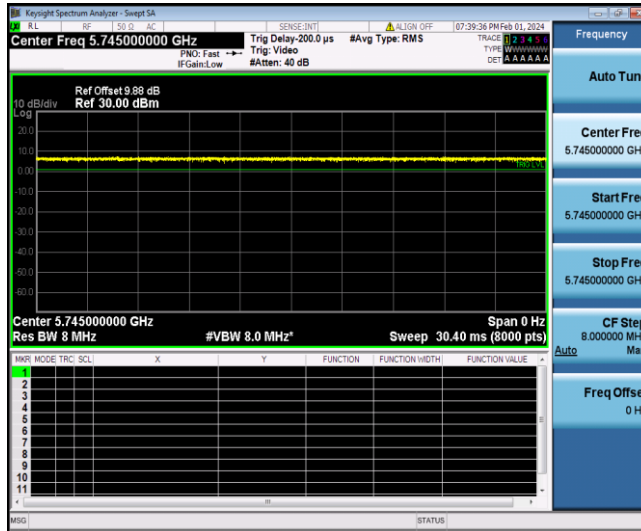
## Appendix E.3: Duty Cycle

### Test Result

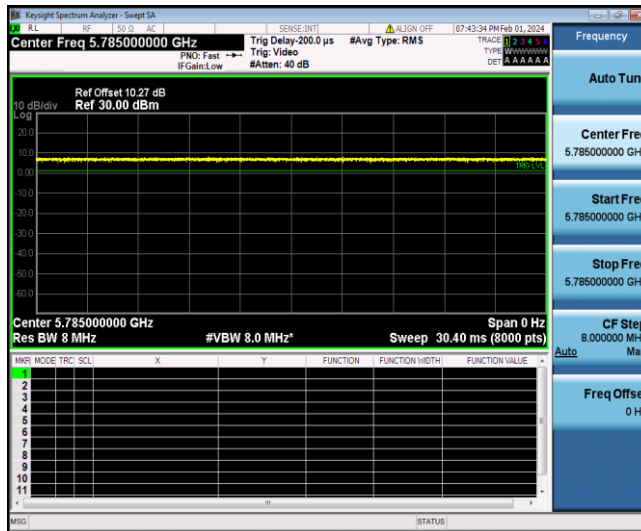
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03

Test Graphs

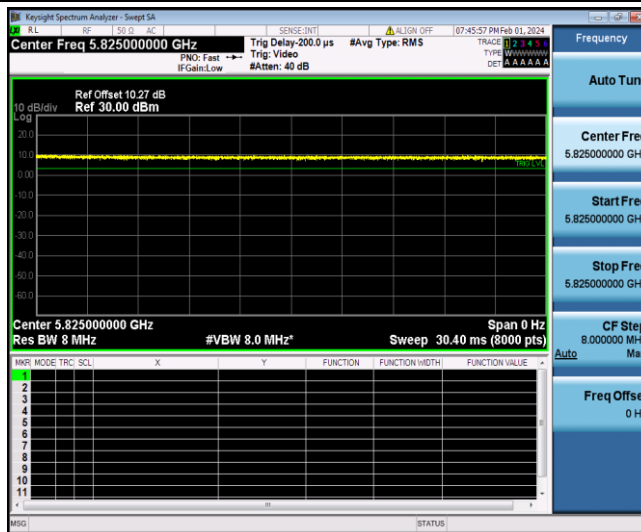
11A\_Ant1\_5745



11A\_Ant1\_5785

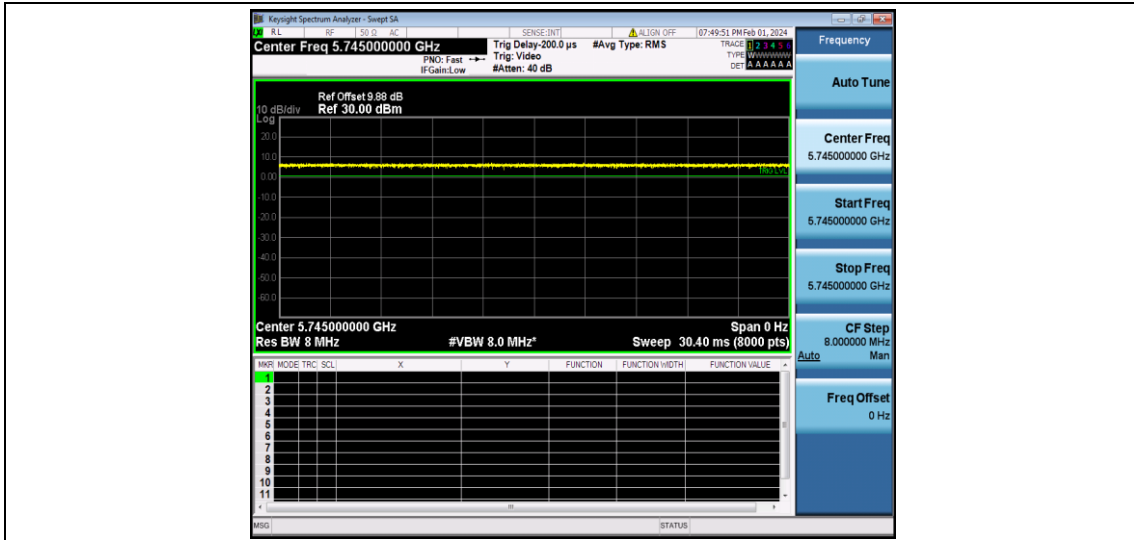


11A\_Ant1\_5825

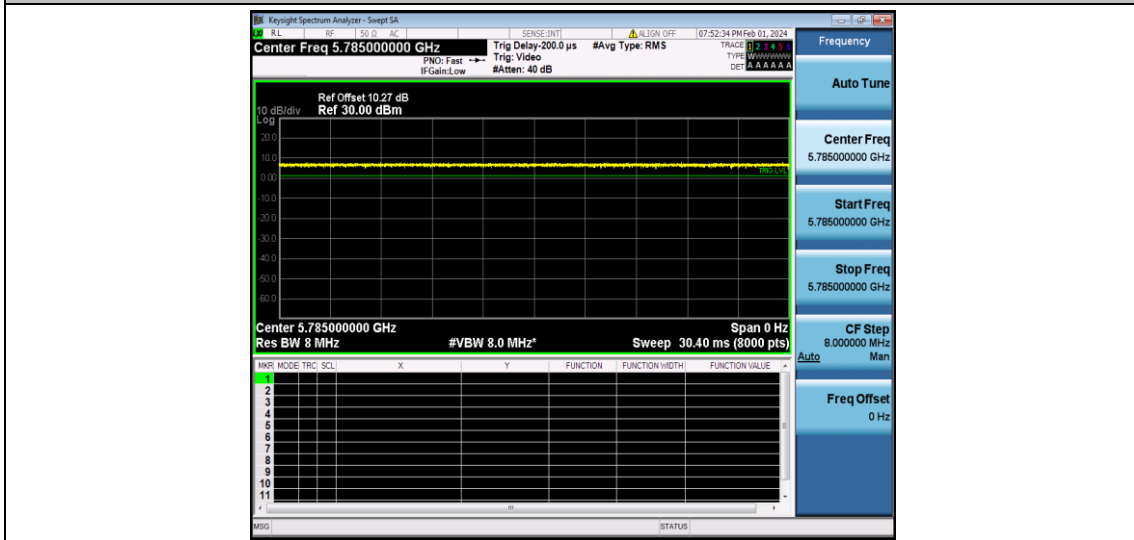


11N20SISO\_Ant1\_5745

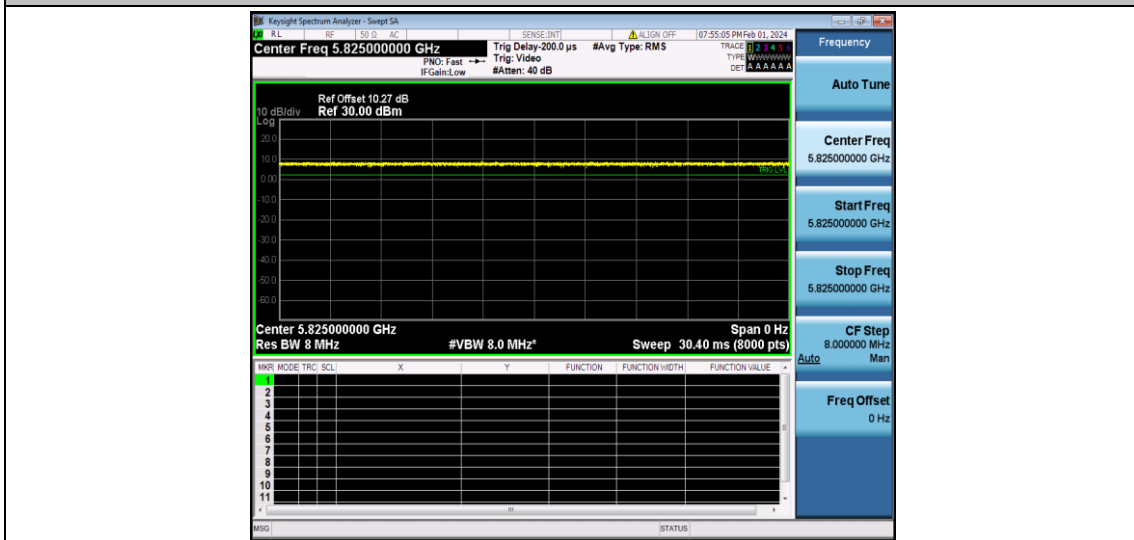




11N20SISO\_Ant1\_5785



11N20SISO\_Ant1\_5825



## Appendix E.4: Maximum conducted output power

### Test Result

Test Mode	Antenna	Freq (MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	Verdict
11A	Ant1	5745	15.80	100.00	0.00	15.80	≤30.00	0.00	PASS
		5785	15.27	100.00	0.00	15.27	≤30.00	0.00	PASS
		5825	15.25	100.00	0.00	15.25	≤30.00	0.00	PASS
11N20 SISO	Ant1	5745	15.58	100.00	0.00	15.58	≤30.00	0.00	PASS
		5785	15.25	100.00	0.00	15.25	≤30.00	0.00	PASS
		5825	15.41	100.00	0.00	15.41	≤30.00	0.00	PASS

Note:

1. The Duty Cycle Factor is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the data.

## Appendix E.5: Maximum power spectral density

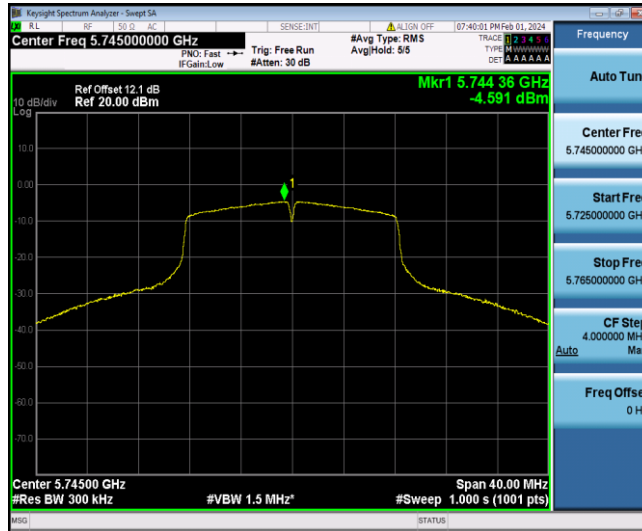
### Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-4.59	≤30.00	PASS
		5785	-3.70	≤30.00	PASS
		5825	-1.91	≤30.00	PASS
11N20SISO	Ant1	5745	-4.91	≤30.00	PASS
		5785	-4.20	≤30.00	PASS
		5825	-3.02	≤30.00	PASS

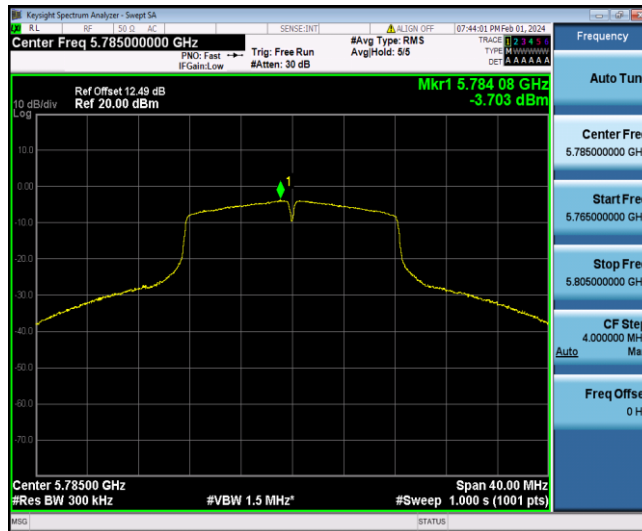
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.  
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11A\_Ant1\_5745



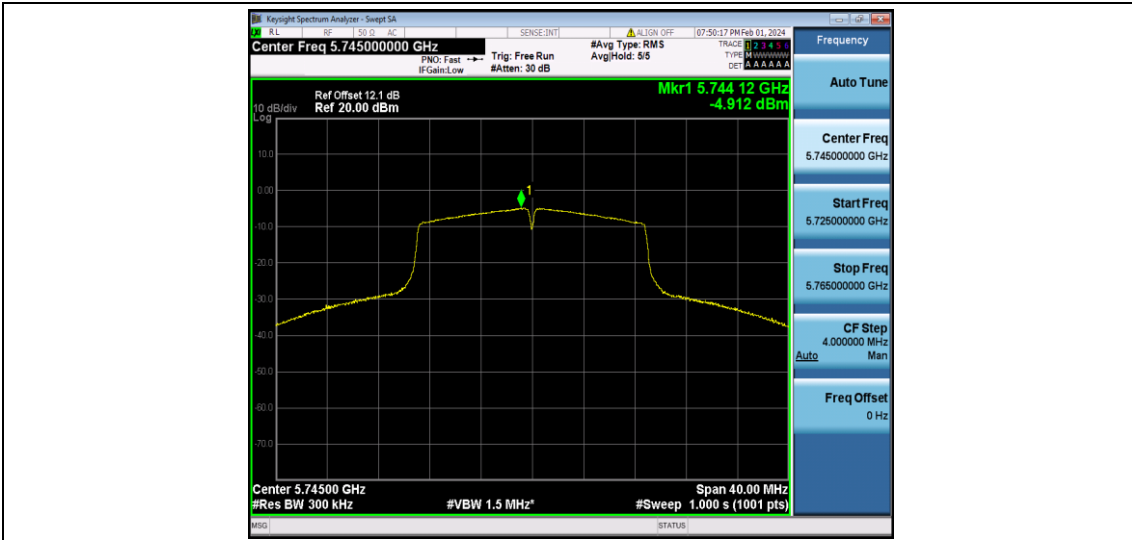
11A\_Ant1\_5785



11A\_Ant1\_5825



11N20SISO\_Ant1\_5745



11N20SISO\_Ant1\_5785



11N20SISO\_Ant1\_5825



## Appendix E.6: Band edge measurements

### Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-29.9	≤-26.70	PASS
				5700~5720	-20.37	≤12.44	PASS
				5720~5725	-29.61	≤15.82	PASS
				5760~5650	-39.98	≤-27	PASS
		High	5825	5850~5855	-16.34	≤17.57	PASS
				5855~5875	-19.75	≤10.81	PASS
				5875~5925	-31.65	≤-26.71	PASS
				5925~5935	-28.77	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-38.9	≤-26.02	PASS
				5700~5720	-28.02	≤14.76	PASS
				5720~5725	-25.72	≤17.39	PASS
				5760~5650	-39.22	≤-27	PASS
		High	5825	5850~5855	-26.66	≤18.19	PASS
				5855~5875	-16.18	≤15.09	PASS
				5875~5925	-39.04	≤-26.81	PASS
				5925~5935	-29.56	≤-27	PASS

Test Graphs B4

11A\_Ant1\_Low\_5745



11A\_Ant1\_High\_5825



11N20SISO\_Ant1\_Low\_5745



11N20SISO\_Ant1\_High\_5825





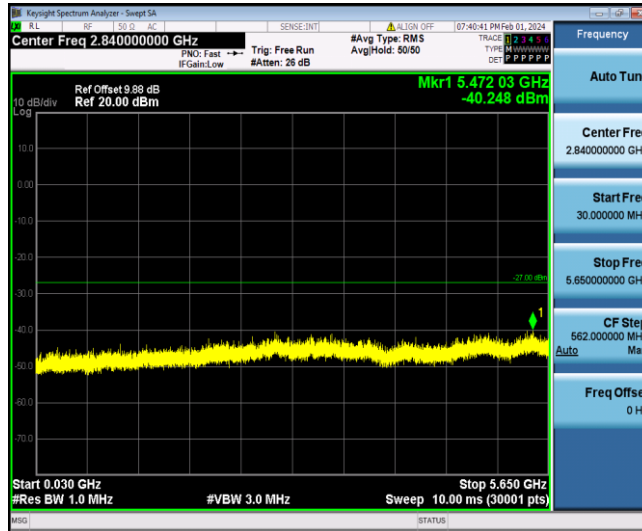
## Appendix E.7: Conducted Spurious Emission

### Test Result

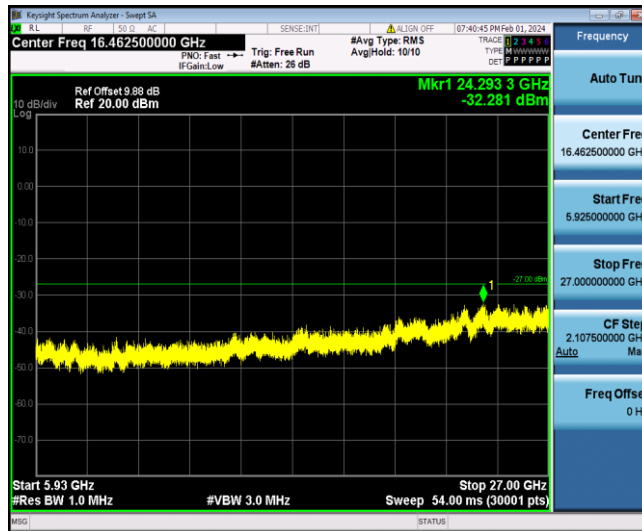
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5472.03	-40.25	≤-27	PASS
			5925~40000	24293.27	-32.28	≤-27	PASS
		5785	30~5650	5413.96	-38.91	≤-27	PASS
			5925~40000	26841.94	-30.77	≤-27	PASS
		5825	30~5650	5588.18	-31.33	≤-27	PASS
			5925~40000	24246.2	-31.22	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5441.5	-40.05	≤-27	PASS
			5925~40000	26563.75	-31.26	≤-27	PASS
		5785	30~5650	5526.92	-38.94	≤-27	PASS
			5925~40000	26823.67	-31.43	≤-27	PASS
		5825	30~5650	5511.75	-39.5	≤-27	PASS
			5925~40000	24283.43	-31.08	≤-27	PASS

Test Graphs

11A\_Ant1\_5745\_30~5650



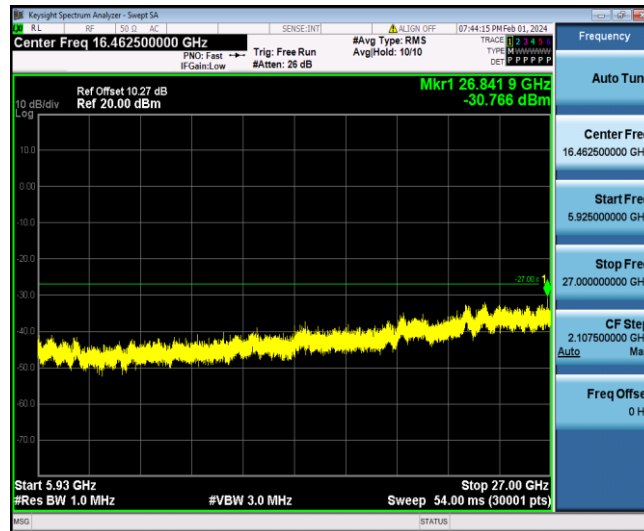
11A\_Ant1\_5745\_5925~40000



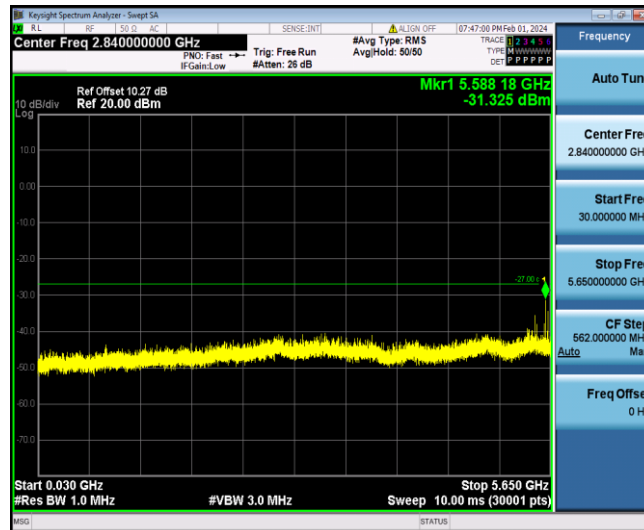
11A\_Ant1\_5785\_30~5650



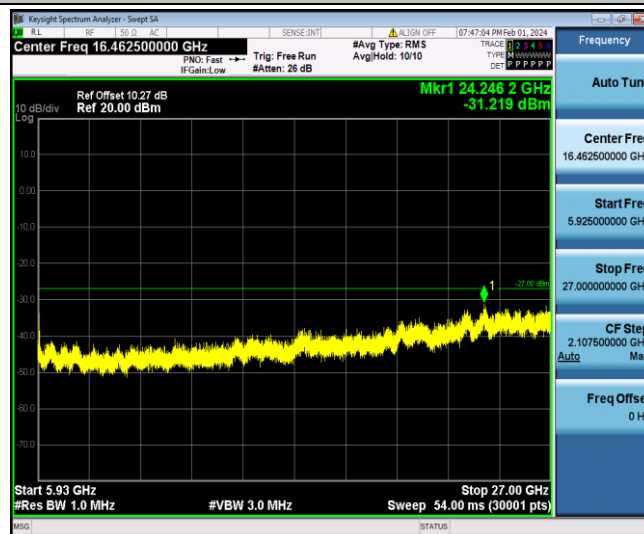
11A\_Ant1\_5785\_5925~40000



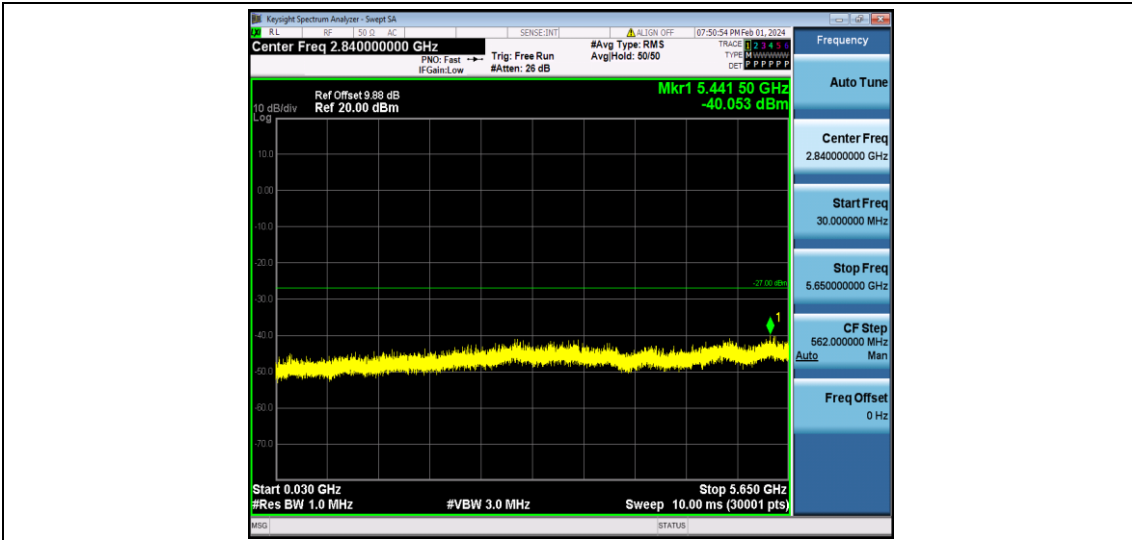
11A\_Ant1\_5825\_30~5650



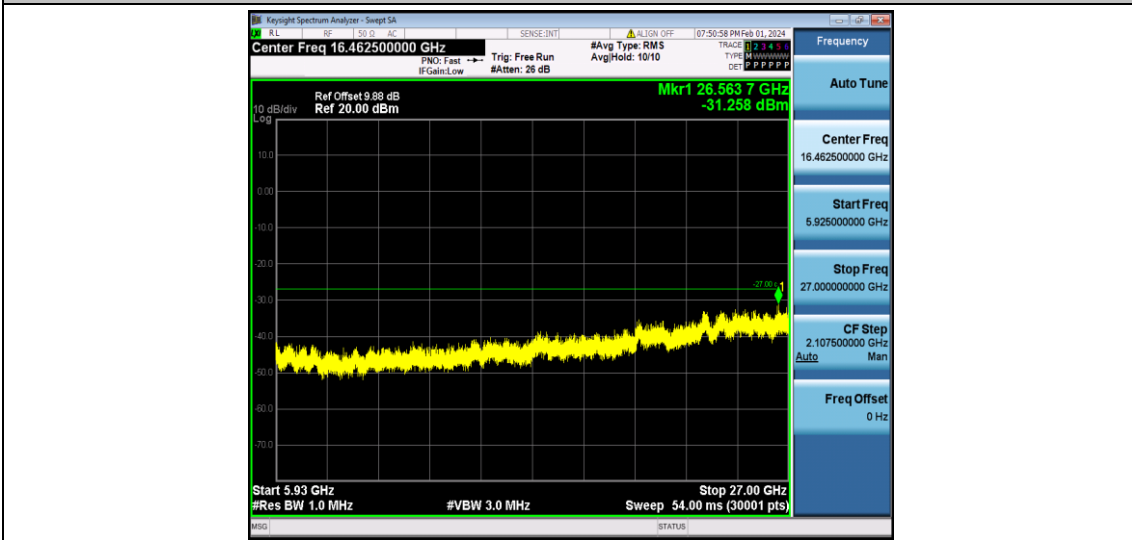
11A\_Ant1\_5825\_5925~40000



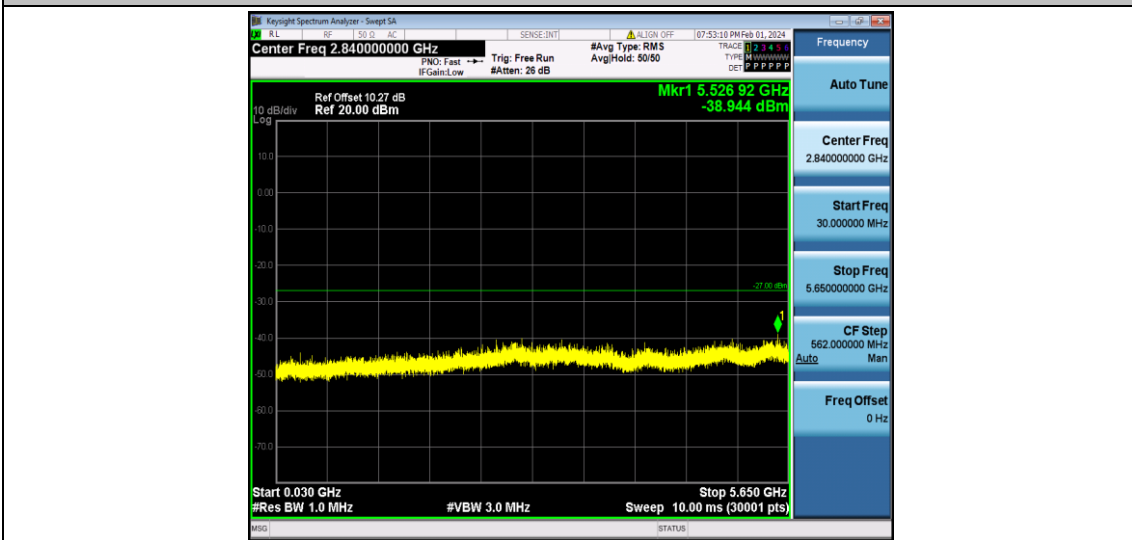
11N20SISO\_Ant1\_5745\_30~5650



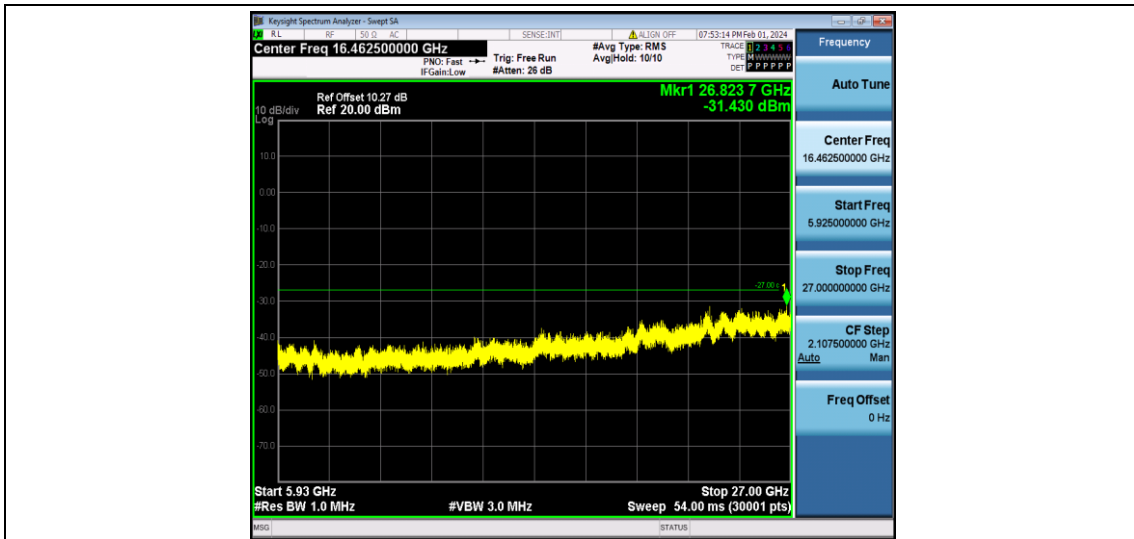
11N20SISO\_Ant1\_5745\_5925-40000



11N20SISO\_Ant1\_5785\_30-5650



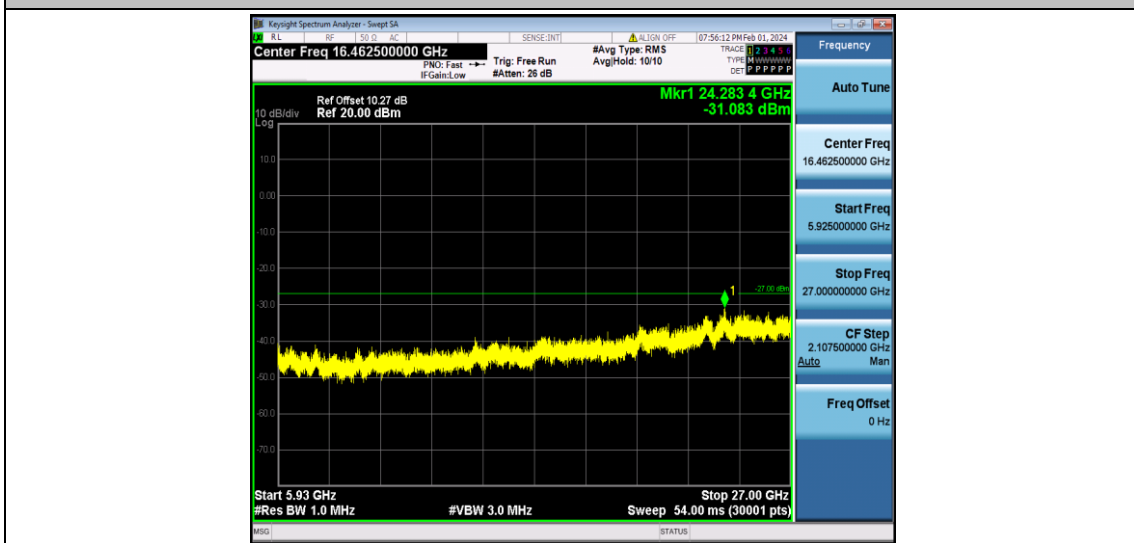
11N20SISO\_Ant1\_5785\_5925-40000



11N20SISO\_Ant1\_5825\_30~5650



11N20SISO\_Ant1\_5825\_5925~40000



## Appendix E.8: Emissions in Restricted Bands

### Test Result

TestMode	Antenna	ChName	Freq(MHz )	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-43.306	≤-27.00	---	---	PASS
				Peak	5700.000	-44.04	≤10.00	---	---	PASS
				Peak	5720.000	-29.38	≤15.60	---	---	PASS
				Peak	5725.000	-22.72	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-28.351	≤27.00	---	---	PASS
				Peak	5855.000	-33.77	≤15.60	---	---	PASS
				Peak	5875.000	-37.66	≤10.00	---	---	PASS
				Peak	5925.000	-40.13	≤-27.00	---	---	PASS
11N20SIS O	Ant1	Low	5745	Peak	5650.000	-42.698	≤-27.00	---	---	PASS
				Peak	5700.000	-42.8	≤10.00	---	---	PASS
				Peak	5720.000	-33.75	≤15.60	---	---	PASS
				Peak	5725.000	-28.3	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-30.015	≤27.00	---	---	PASS
				Peak	5855.000	-32.94	≤15.60	---	---	PASS
				Peak	5875.000	-40.71	≤10.00	---	---	PASS
				Peak	5925.000	-42.91	≤-27.00	---	---	PASS

#### Note:

1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

11A\_Ant1\_Low\_5745\_Peak



11A\_Ant1\_High\_5825\_Peak



11N20SISO\_Ant1\_Low\_5745\_Peak



