

Case No. : <u>GTS20231020001-1-80</u>
Ambient Condition: <u>22 °C, 50 %RH</u>
According Standard: <u>■Part15E</u>
Test Date: <u>2024.2.1</u> Test Engineer: <u>Evan ouyang</u>

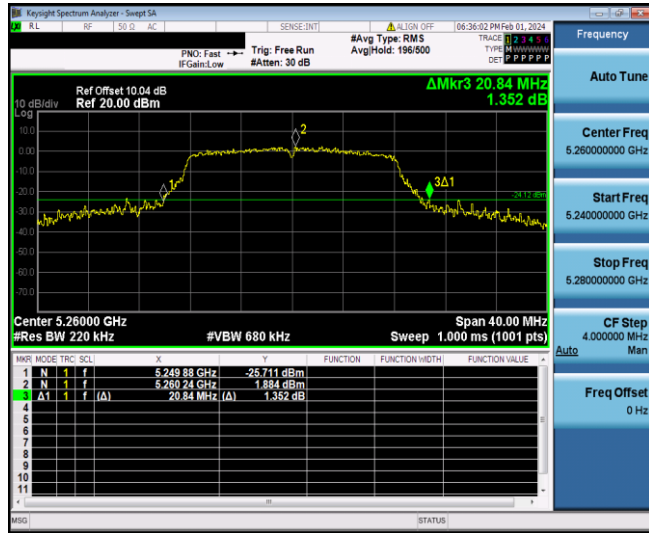
Appendix C.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	20.840	5249.880	5270.720	---	---
		5280	24.560	5266.720	5291.280	---	---
		5320	23.880	5309.840	5333.720	---	---
11N20SISO	Ant1	5260	28.000	5244.880	5272.880	---	---
		5280	27.560	5264.120	5291.680	---	---
		5320	26.800	5306.440	5333.240	---	---

Test Graphs

11A_Ant1_5260



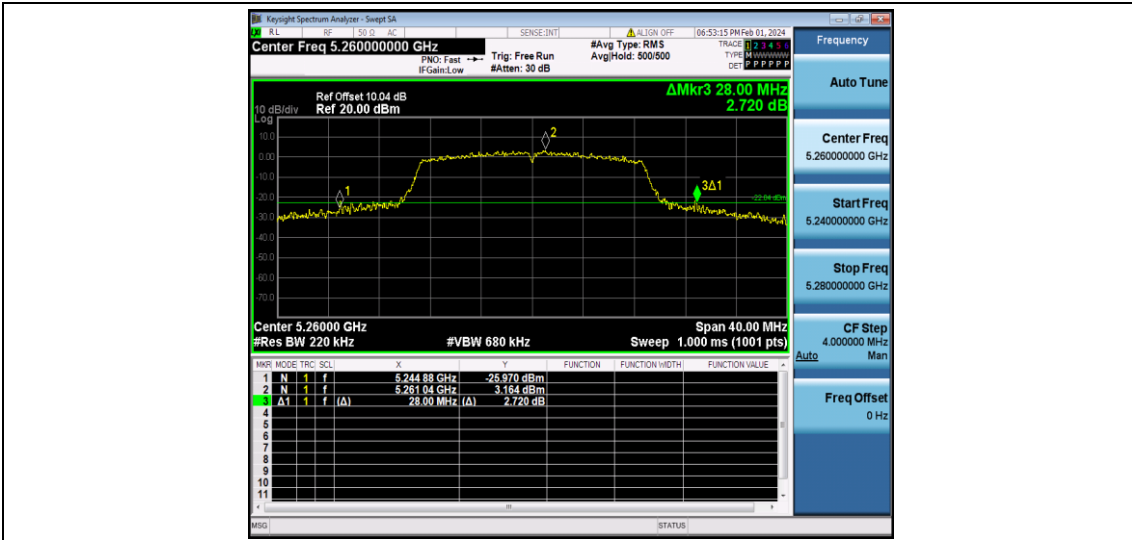
11A_Ant1_5280



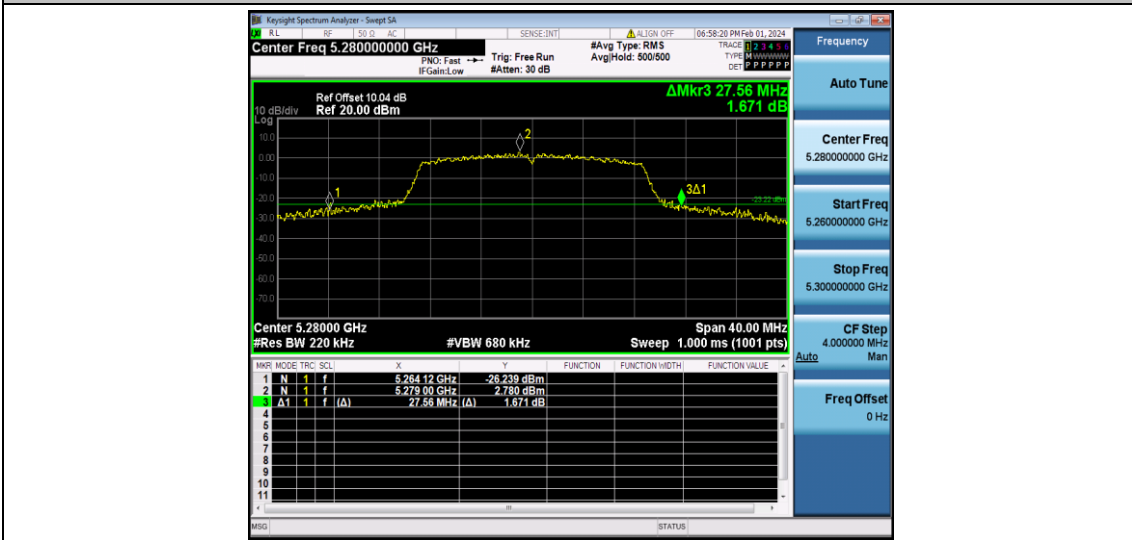
11A_Ant1_5320



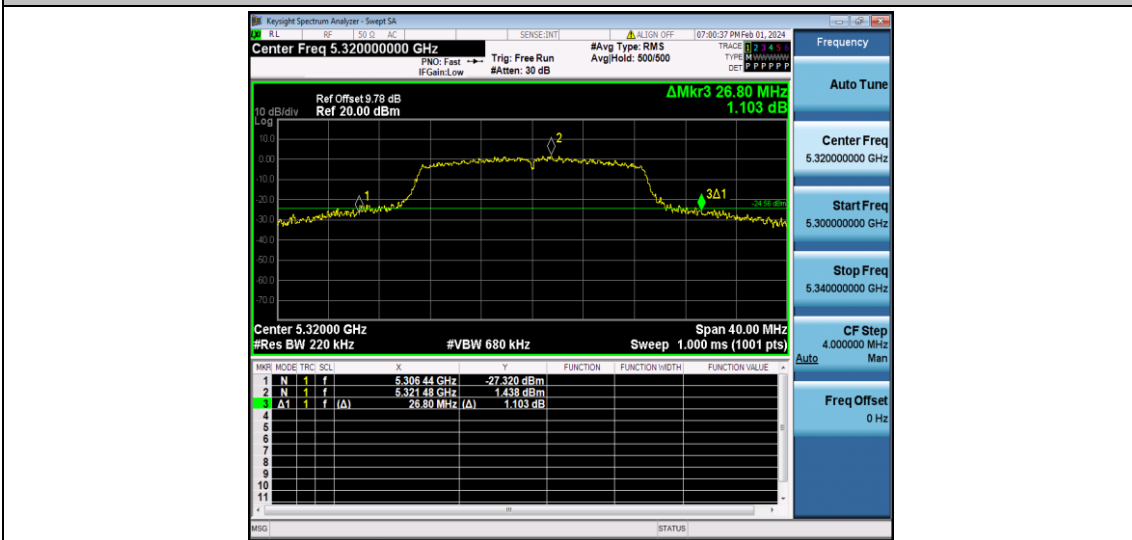
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



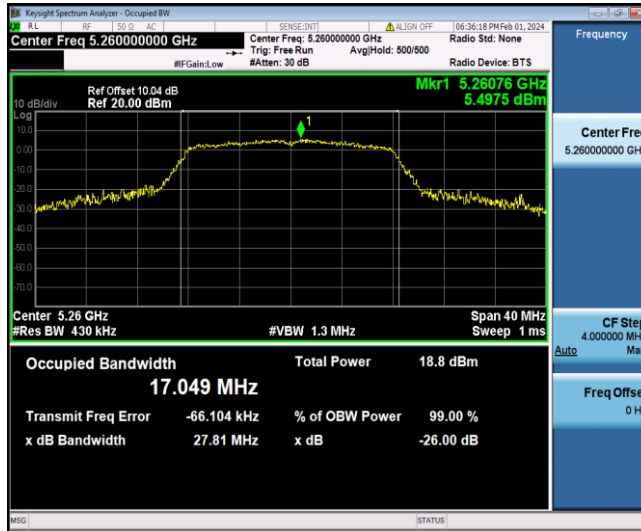
Appendix C.2: Occupied channel bandwidth

Test Result

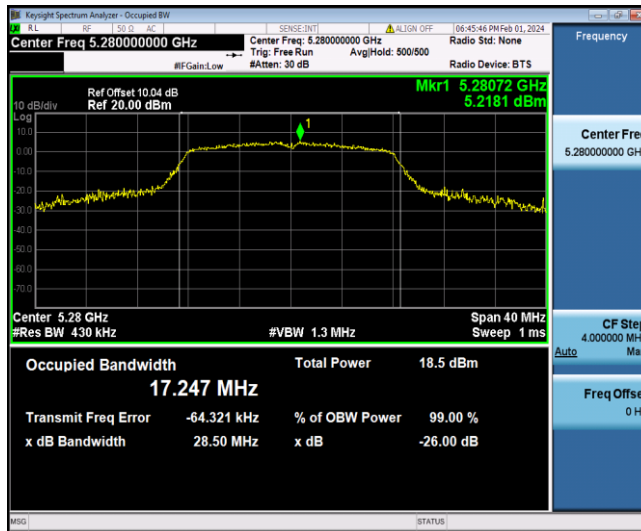
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	17.049	5251.4094	5268.4584	---	---
		5280	17.247	5271.3122	5288.5592	---	---
		5320	17.147	5311.3889	5328.5359	---	---
11N20SISO	Ant1	5260	18.044	5250.9086	5268.9526	---	---
		5280	18.167	5270.8730	5289.0400	---	---
		5320	18.183	5310.8605	5329.0435	---	---

Test Graphs

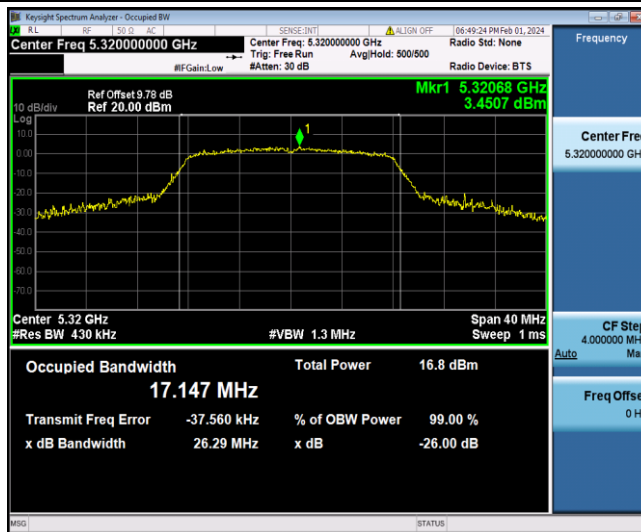
11A_Ant1_5260



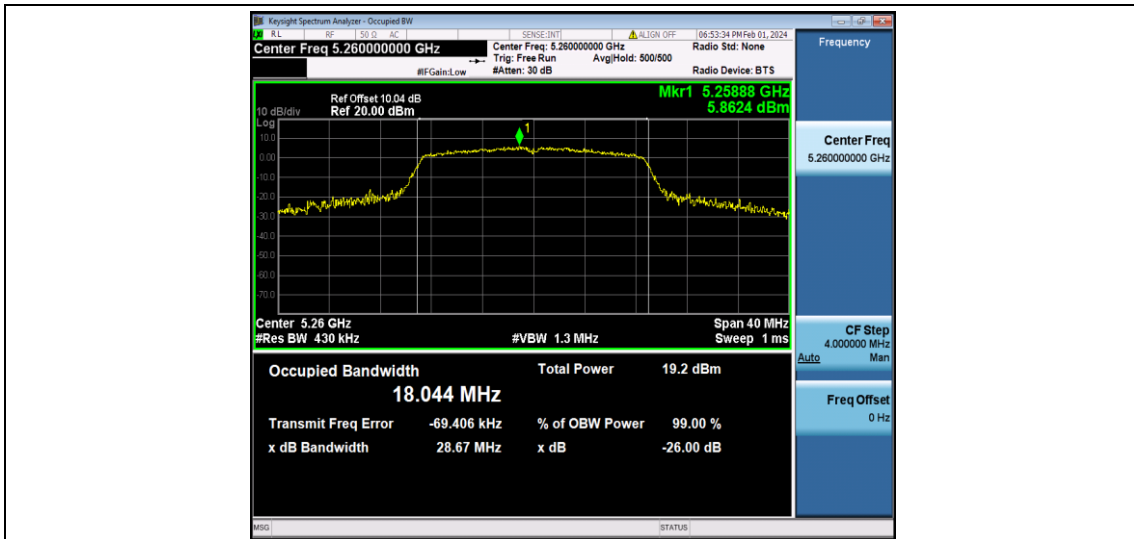
11A_Ant1_5280



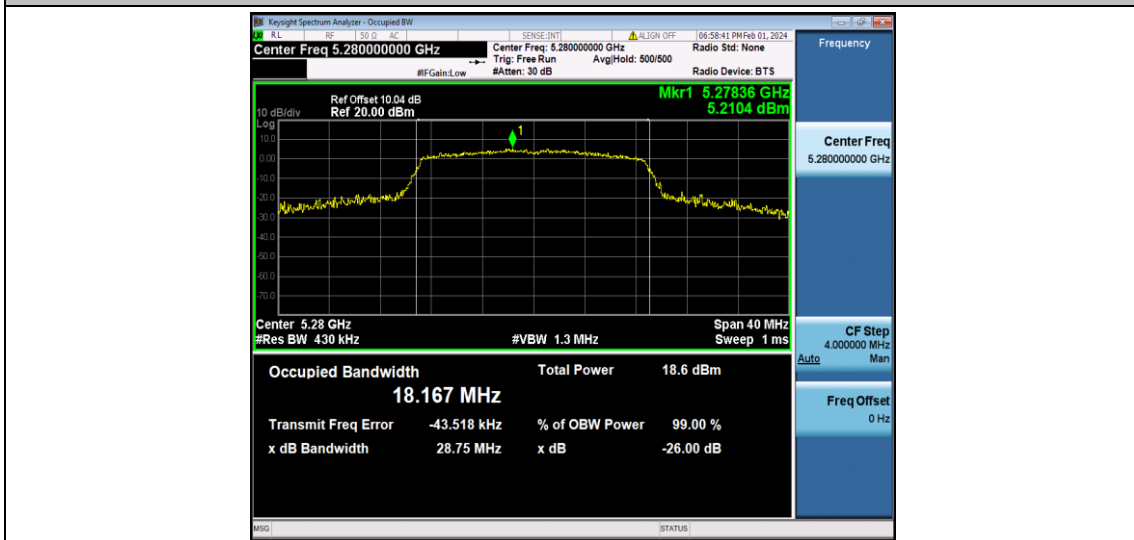
11A_Ant1_5320



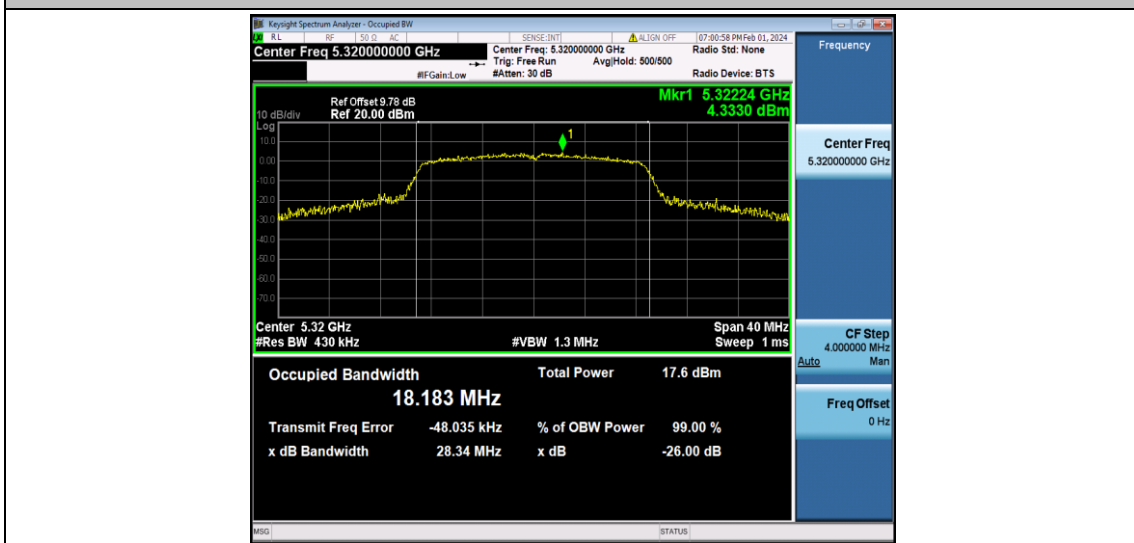
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



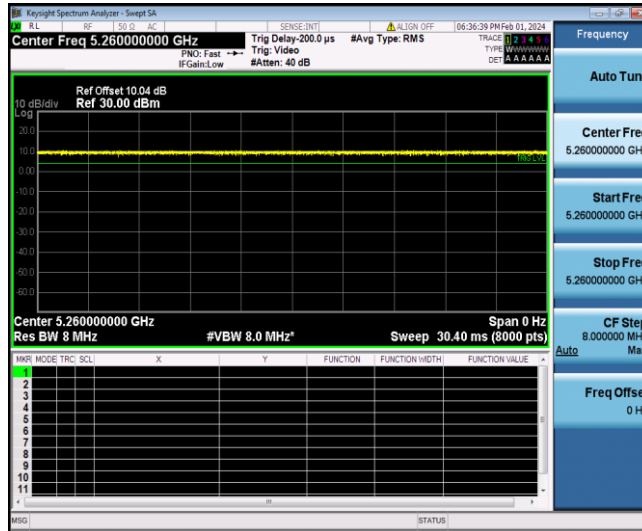
Appendix C.3: Duty Cycle

Test Result

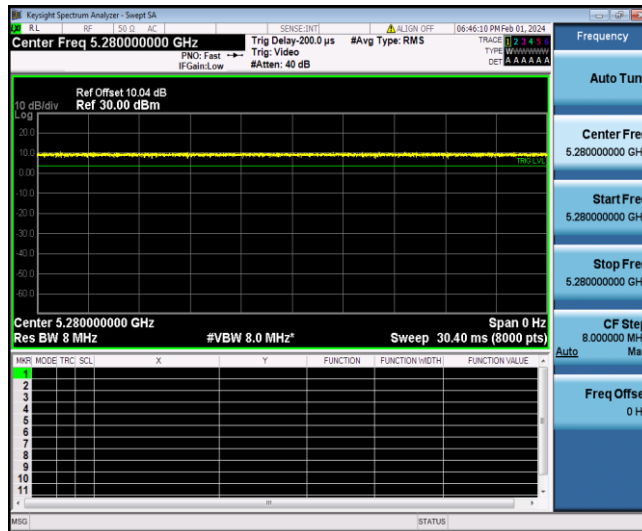
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5260	30.00	30.00	100.00	0.00	0.03
		5280	30.00	30.00	100.00	0.00	0.03
		5320	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5260	30.00	30.00	100.00	0.00	0.03
		5280	30.00	30.00	100.00	0.00	0.03
		5320	30.00	30.00	100.00	0.00	0.03

Test Graphs

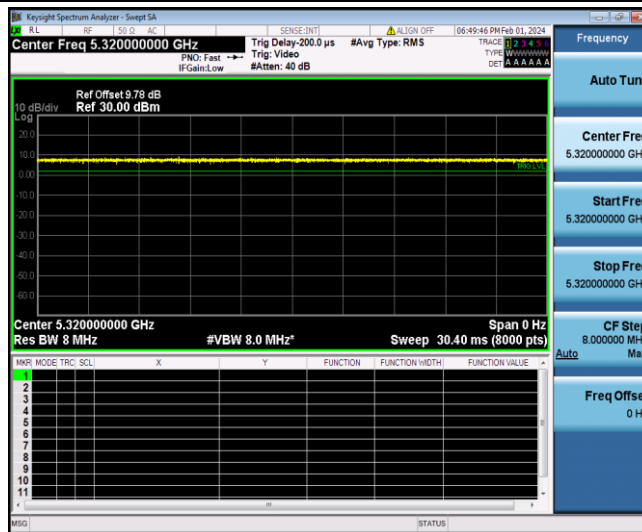
11A_Ant1_5260



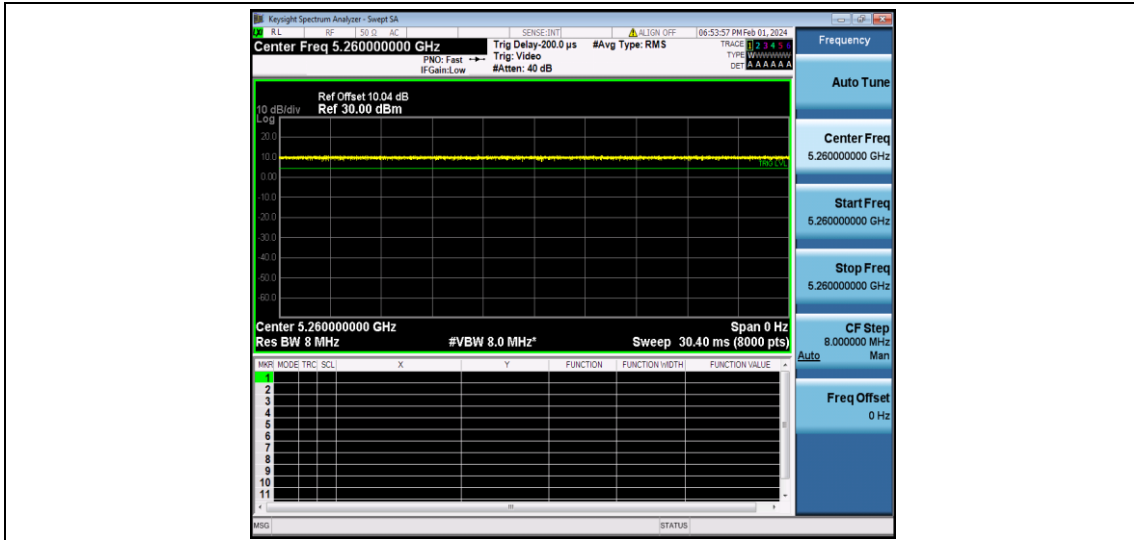
11A_Ant1_5280



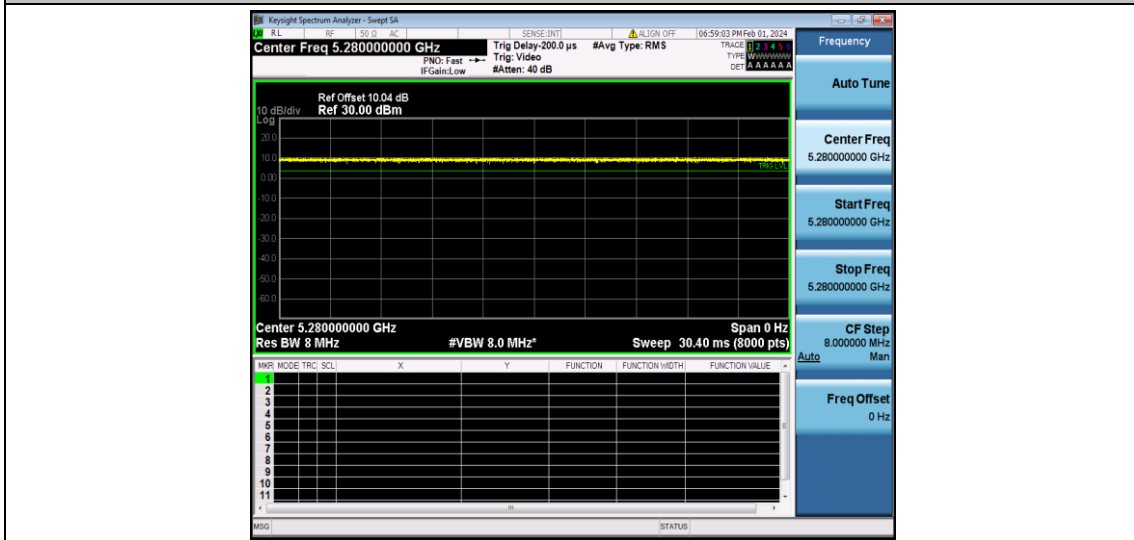
11A_Ant1_5320



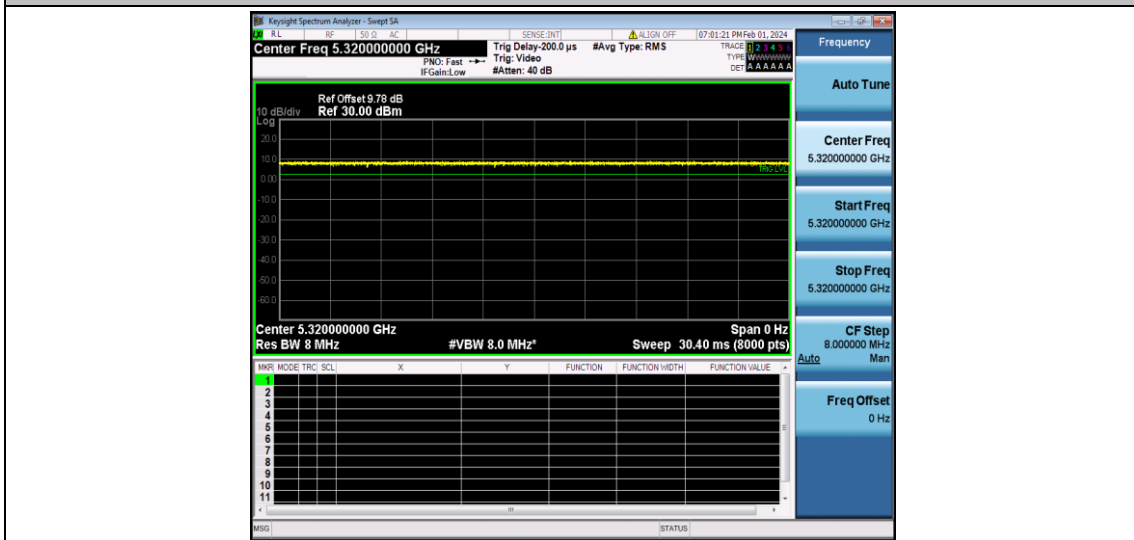
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



Appendix C.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	5260	16.86	100.00	0.00	16.86	≤23.98	0.00	PASS
		5280	16.60	100.00	0.00	16.60	≤23.98	0.00	PASS
		5320	16.99	100.00	0.00	16.99	≤23.98	0.00	PASS
11N20S ISO	Ant1	5260	16.40	100.00	0.00	16.40	≤23.98	0.00	PASS
		5280	16.75	100.00	0.00	16.75	≤23.98	0.00	PASS
		5320	16.72	100.00	0.00	16.72	≤23.98	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 C.5: Maximum power spectral density

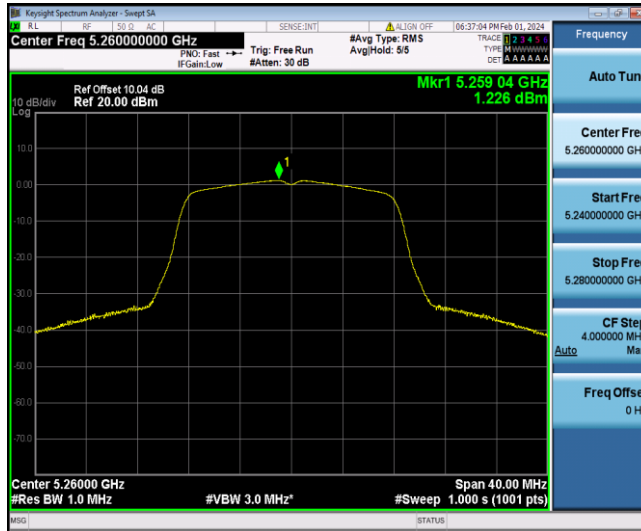
Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5260	1.23	≤11.00	PASS
		5280	1.09	≤11.00	PASS
		5320	-0.65	≤11.00	PASS
11N20SISO	Ant1	5260	1.60	≤11.00	PASS
		5280	0.99	≤11.00	PASS
		5320	-0.10	≤11.00	PASS

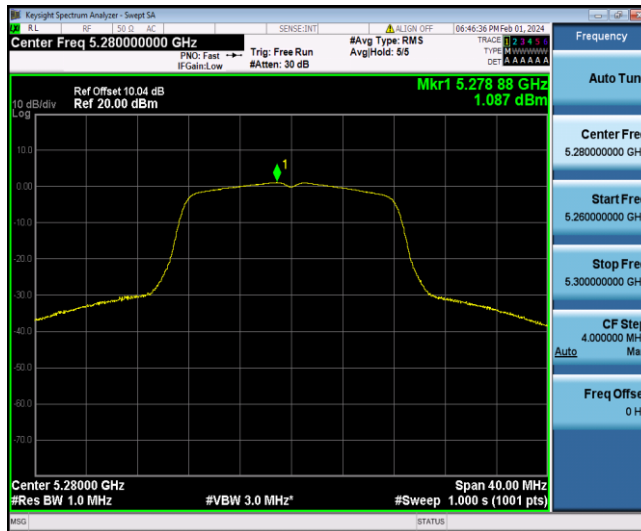
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

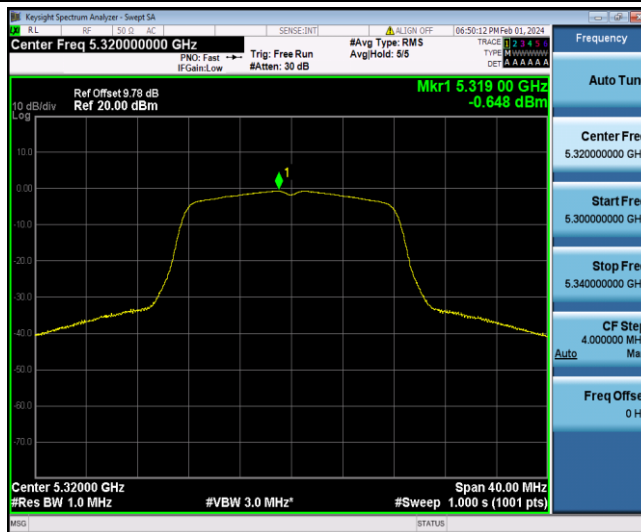
11A_Ant1_5260



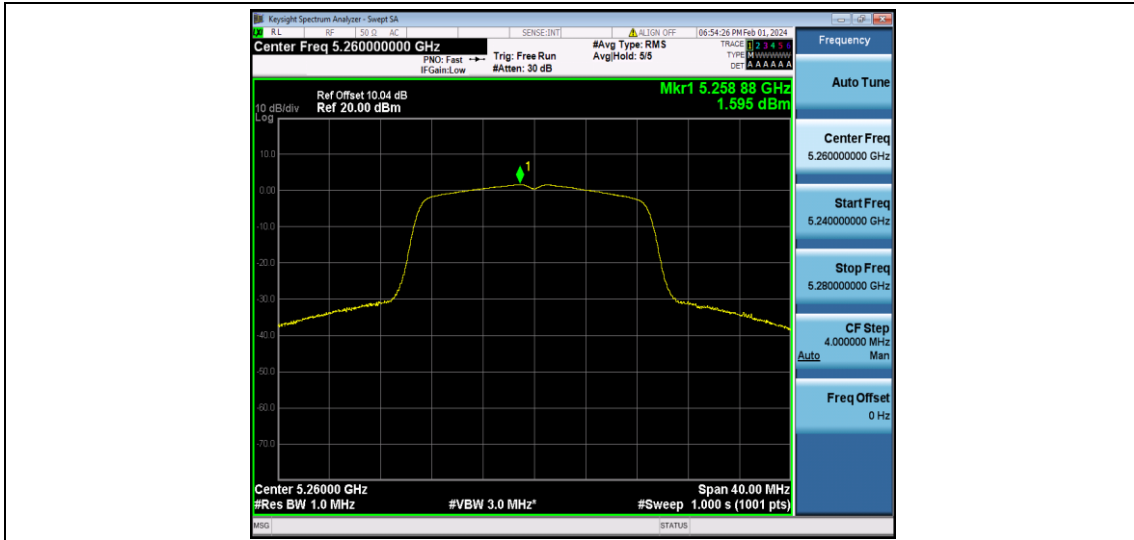
11A_Ant1_5280



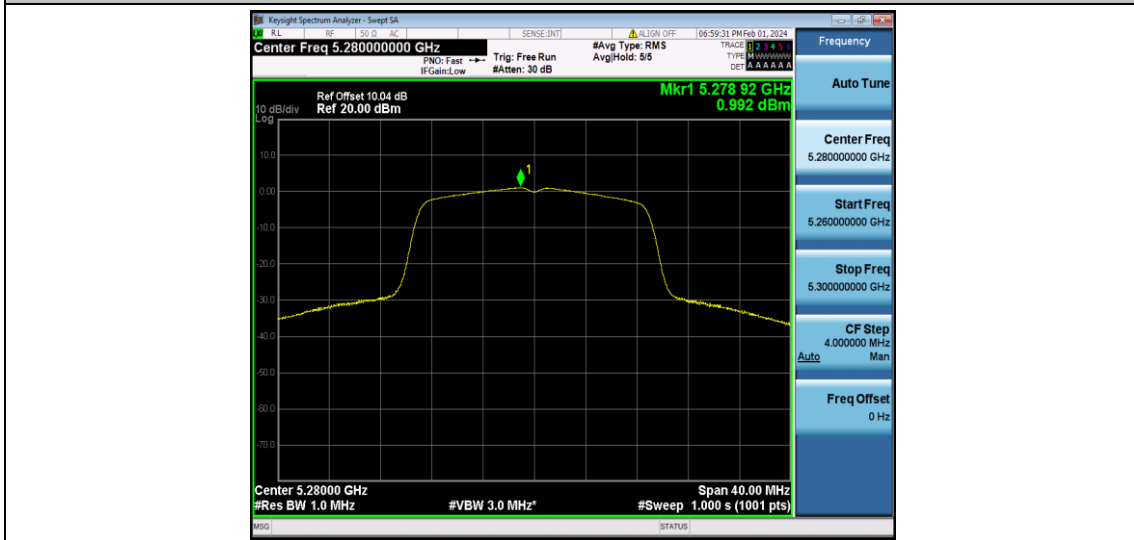
11A_Ant1_5320



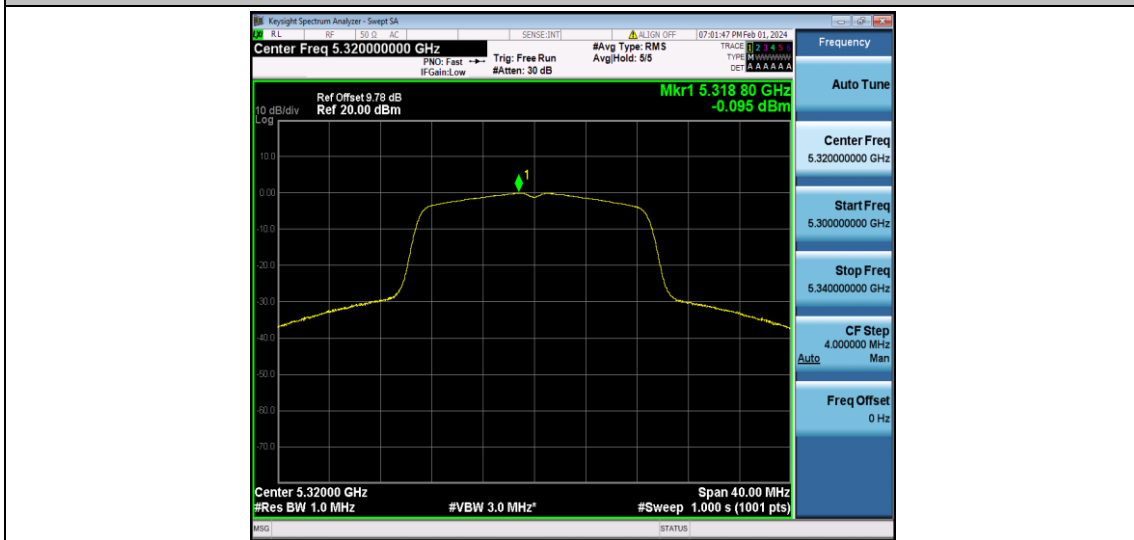
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



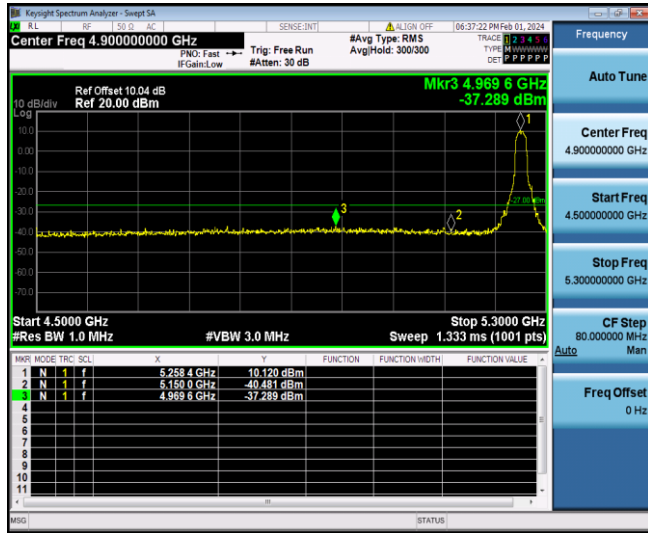
Appendix C.6: Band edge measurements

Test Result B2

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5260	-37.29	≤-27	PASS
		High	5320	-36.15	≤-27	PASS
11N20SISO	Ant1	Low	5260	-37.35	≤-27	PASS
		High	5320	-33.37	≤-27	PASS

Test Graphs B2

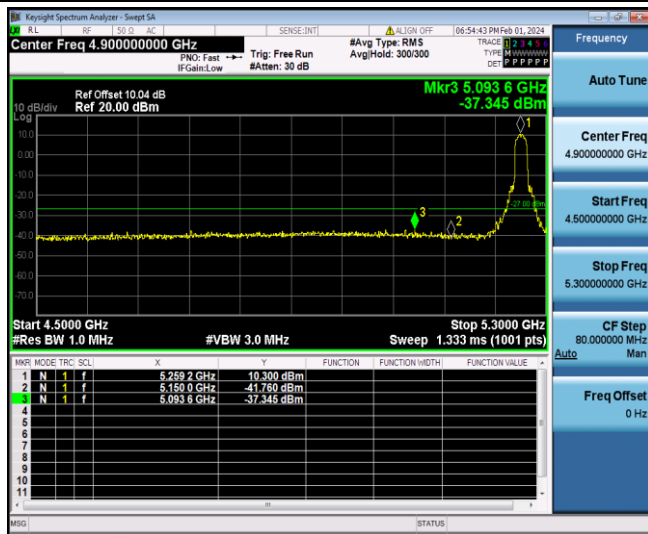
11A_Ant1_Low_5260



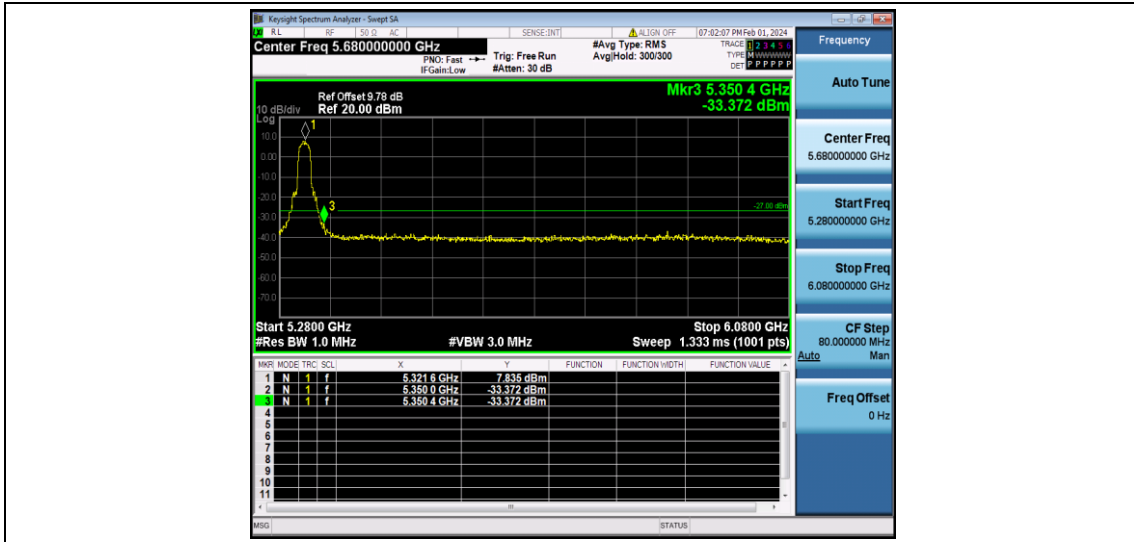
11A_Ant1_High_5320



11N20SISO_Ant1_Low_5260



11N20SISO_Ant1_High_5320



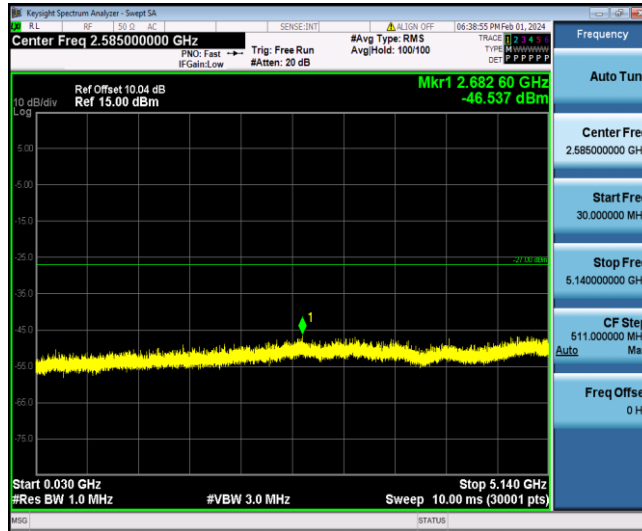
Appendix C.7: Conducted Spurious Emission

Test Result

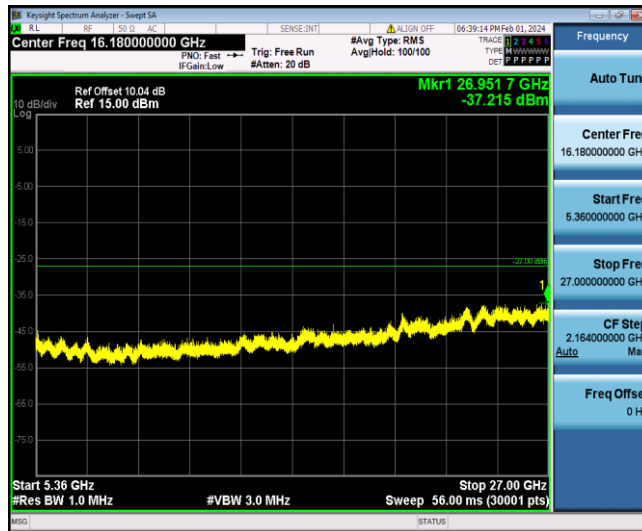
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	30~5140	2682.6	-46.54	≤-27	PASS
			5360~40000	26951.67	-37.22	≤-27	PASS
		5280	30~5140	4823.18	-46.17	≤-27	PASS
			5360~40000	26696.32	-37.41	≤-27	PASS
		5320	30~5140	2659.27	-46.5	≤-27	PASS
			5360~40000	24784.06	-37.18	≤-27	PASS
11N20SISO	Ant1	5260	30~5140	4944.12	-46.54	≤-27	PASS
			5360~40000	26504.44	-36.75	≤-27	PASS
		5280	30~5140	1738.27	-44.13	≤-27	PASS
			5360~40000	24791.28	-36.49	≤-27	PASS
		5320	30~5140	5110.87	-46.46	≤-27	PASS
			5360~40000	26826.88	-37.03	≤-27	PASS

Test Graphs

11A_Ant1_5260_30~5140



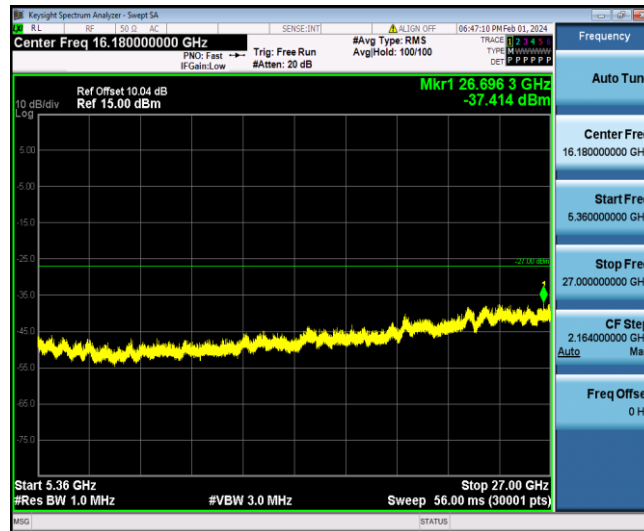
11A_Ant1_5260_5360~40000



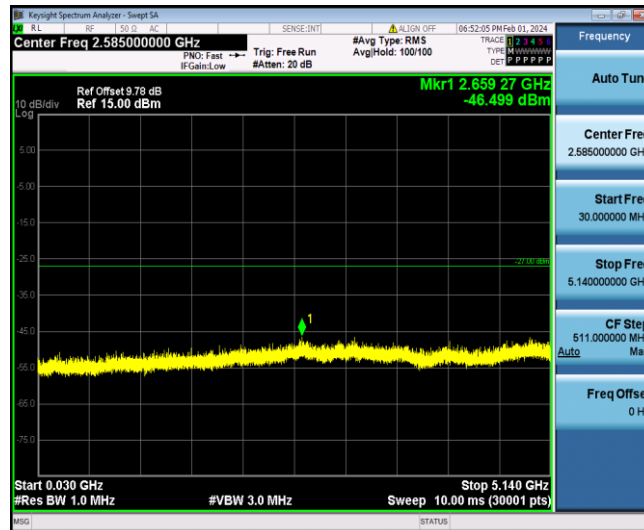
11A_Ant1_5280_30~5140



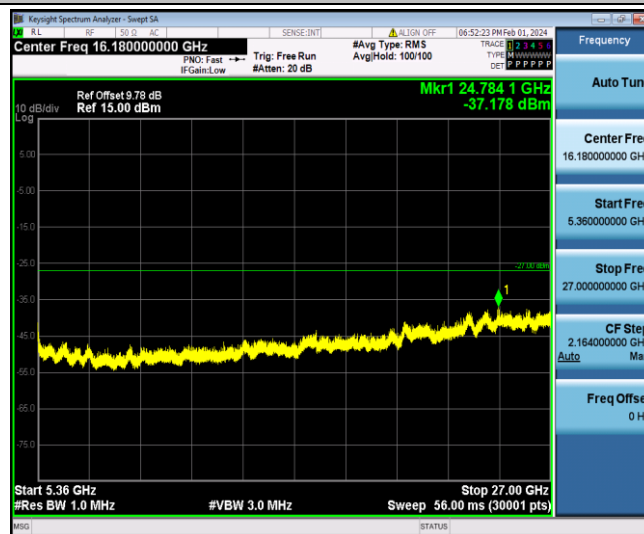
11A_Ant1_5280_5360~40000



11A_Ant1_5320_30~5140



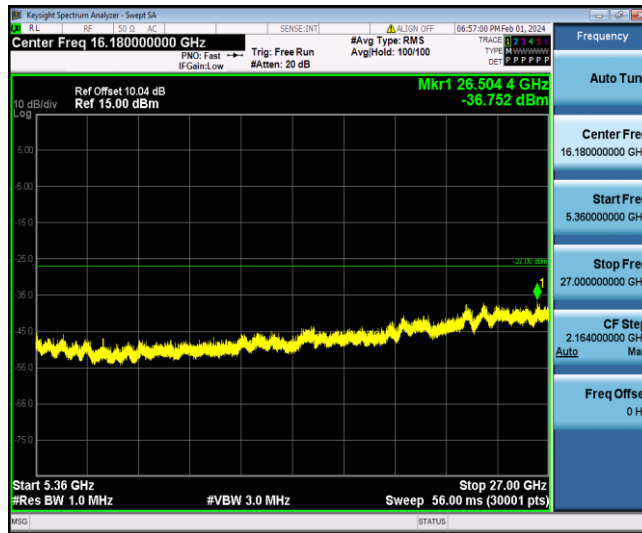
11A_Ant1_5320_5360~40000



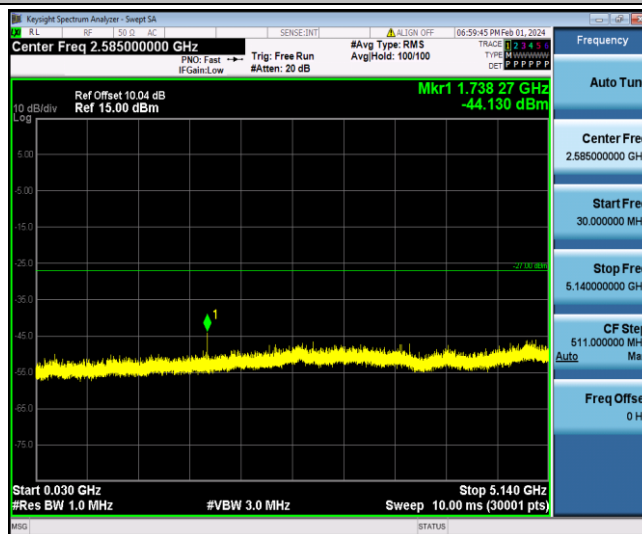
11N20SISO_Ant1_5260_30~5140



11N20SISO_Ant1_5260_5360~40000



11N20SISO_Ant1_5280_30~5140



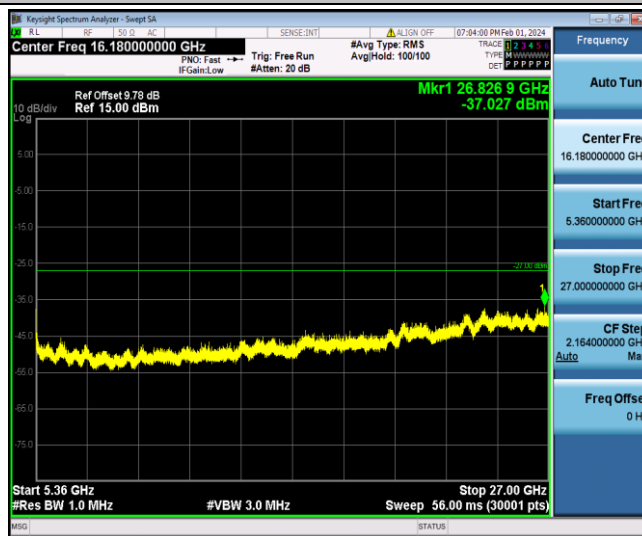
11N20SISO_Ant1_5280_5360~40000



11N20SISO_Ant1_5320_30~5140



11N20SISO_Ant1_5320_5360~40000



Appendix C.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	5260	AV	4500.000	-47.95	≤-41.20	47.25	≤54	PASS
				AV	4944.000	-45.67	≤-41.20	49.53	≤54	PASS
				AV	5150.000	-47.12	≤-41.20	48.08	≤54	PASS
				Peak	4500.000	-45.74	≤-21.20	49.46	≤74	PASS
				Peak	4946.400	-36.58	≤-21.20	58.62	≤74	PASS
				Peak	5150.000	-46.13	≤-21.20	49.07	≤74	PASS
		High	5320	AV	5350.000	-43.96	≤-41.20	51.24	≤54	PASS
				AV	5350.400	-43.96	≤-41.20	51.24	≤54	PASS
				AV	5460.000	-46.43	≤-41.20	48.77	≤54	PASS
				Peak	5350.000	-39.73	≤-21.20	55.47	≤74	PASS
				Peak	5358.400	-36.7	≤-21.20	58.50	≤74	PASS
				Peak	5460.000	-45.59	≤-21.20	49.61	≤74	PASS
11N20SIS O	Ant1	Low	5260	AV	4500.000	-47.92	≤-41.20	47.28	≤54	PASS
				AV	4944.000	-45.66	≤-41.20	49.54	≤54	PASS
				AV	5150.000	-47.12	≤-41.20	48.08	≤54	PASS
				Peak	4500.000	-41.86	≤-21.20	53.34	≤74	PASS
				Peak	4990.400	-36.86	≤-21.20	58.34	≤74	PASS
				Peak	5150.000	-42.8	≤-21.20	52.40	≤74	PASS
		High	5320	AV	5350.000	-42.69	≤-41.20	52.51	≤54	PASS
				AV	5350.400	-42.69	≤-41.20	52.51	≤54	PASS
				AV	5460.000	-46.46	≤-41.20	48.74	≤54	PASS
				Peak	5350.000	-39.9	≤-21.20	55.30	≤74	PASS
				Peak	5352.800	-36.52	≤-21.20	58.68	≤74	PASS
				Peak	5460.000	-41.62	≤-21.20	53.58	≤74	PASS

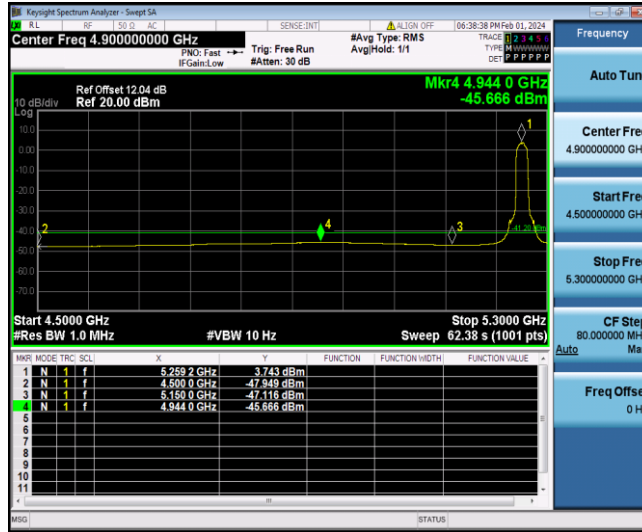
Note:

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

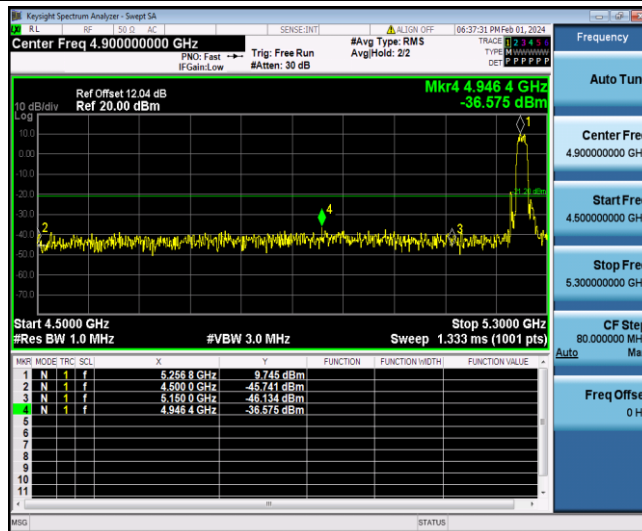
For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

11A_Ant1_Low_5260_AV



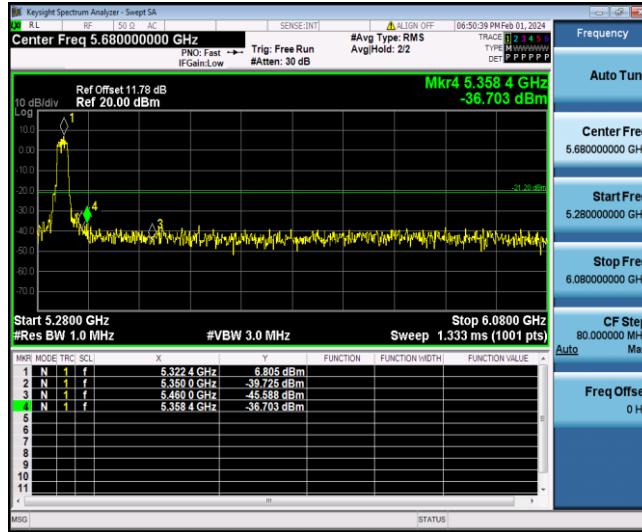
11A_Ant1_Low_5260_Peak



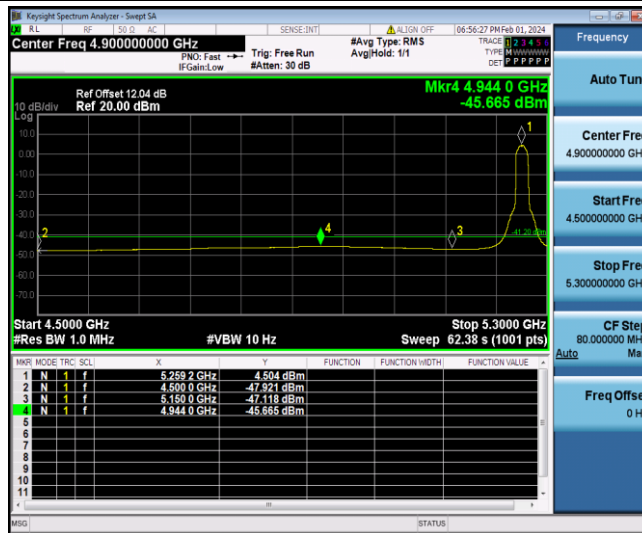
11A_Ant1_High_5320_AV



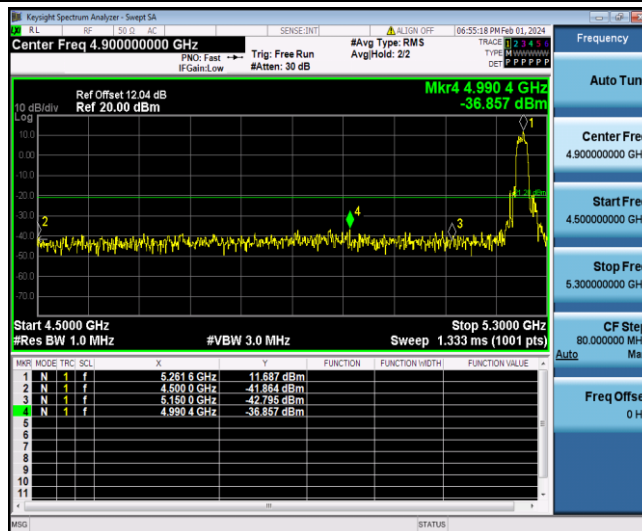
11A_Ant1_High_5320_Peak



11N20SISO_Ant1_Low_5260_AV



11N20SISO_Ant1_Low_5260_Peak



11N20SISO_Ant1_High_5320_AV



11N20SISO_Ant1_High_5320_Peak

