



RF Test Data for RLAN(5.8G) (Conducted Measurement)

Product Name: XVision TX

Trade Mark: SYNCO

Test Model: XVision HD TX

FCC ID: 2AXWL-HD-TX

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.485	5736.7397	5753.2247	---	---
11A	Ant1	5785	16.500	5776.7392	5793.2392	---	---
11A	Ant1	5825	16.518	5816.7557	5833.2737	---	---
11N20SISO	Ant1	5745	17.559	5736.2092	5753.7682	---	---
11N20SISO	Ant1	5785	17.543	5776.2291	5793.7721	---	---
11N20SISO	Ant1	5825	17.536	5816.2742	5833.8102	---	---
11N40SISO	Ant1	5755	35.241	5737.3716	5772.6126	---	---
11N40SISO	Ant1	5795	35.245	5777.4008	5812.6458	---	---

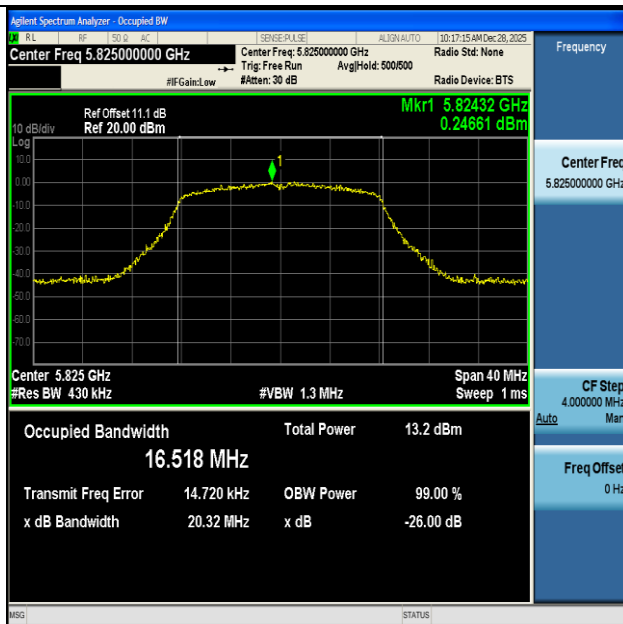
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



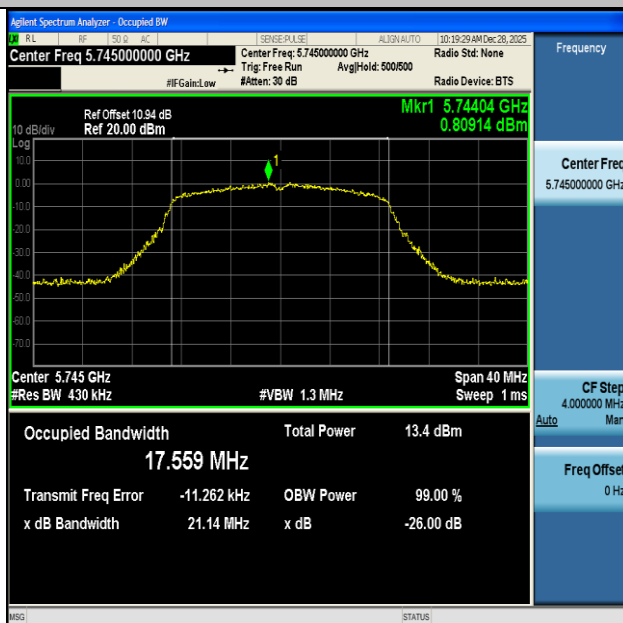


Test Graphs



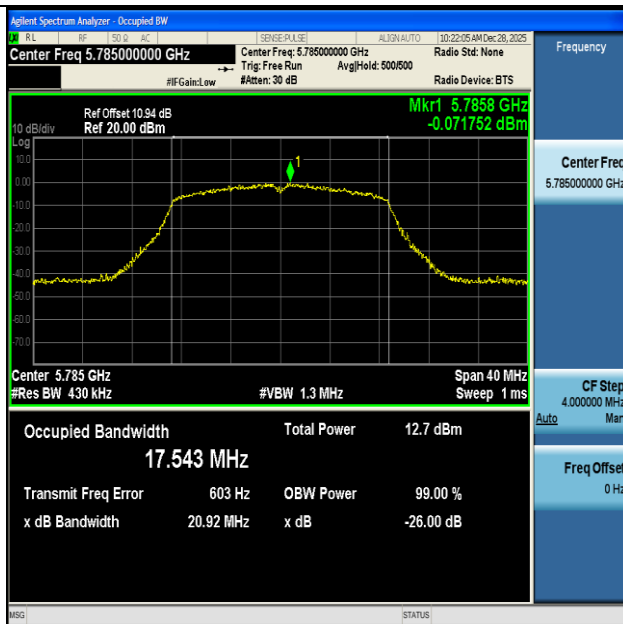


11A-Ant1-5825

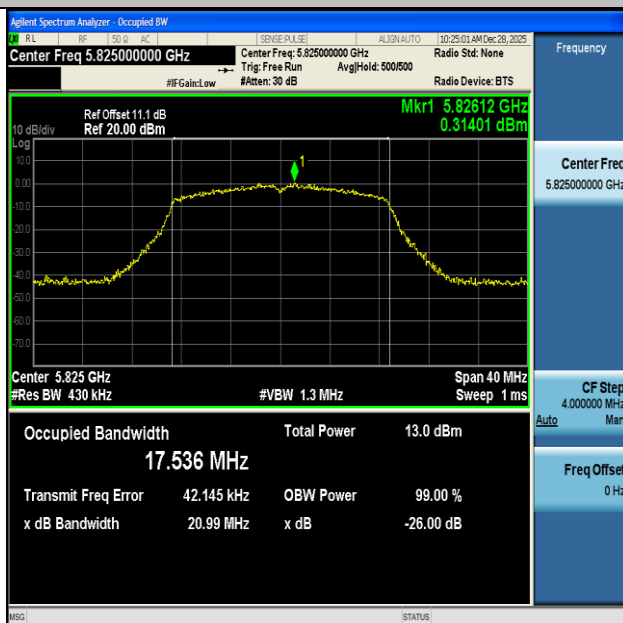


11N20SISO-Ant1-5745



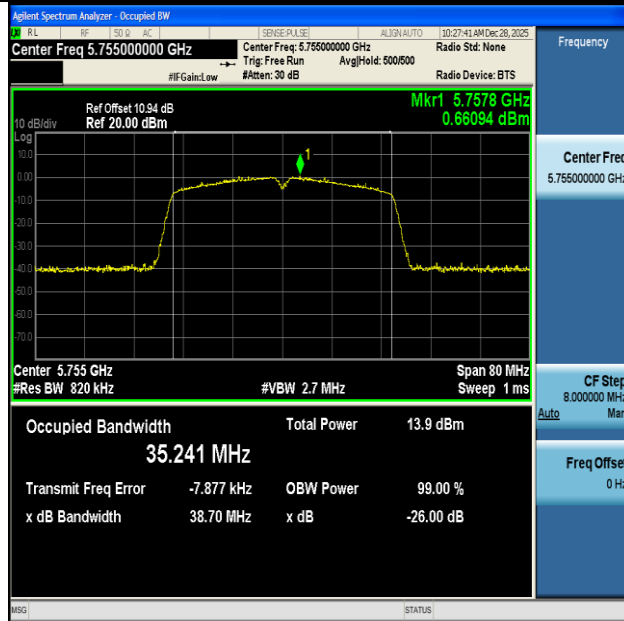


11N20SISO-Ant1-5785

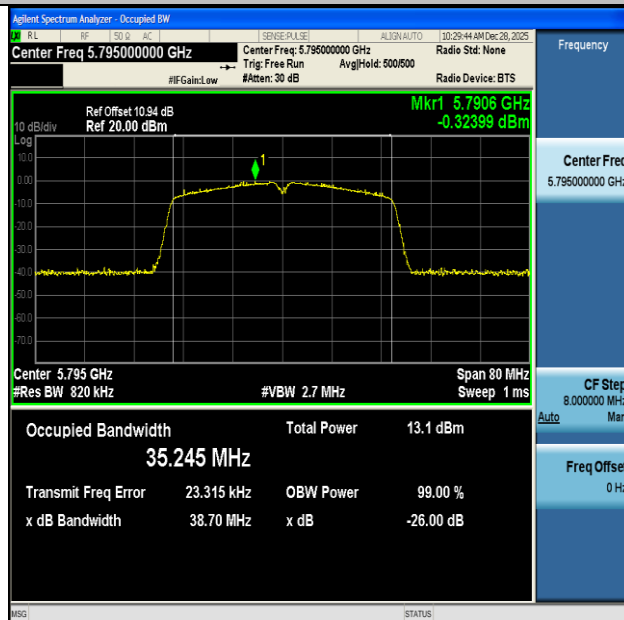


11N20SISO-Ant1-5825





11N40SISO-Ant1-5755



11N40SISO-Ant1-5795





Appendix A: Min emission bandwidth

Test Result

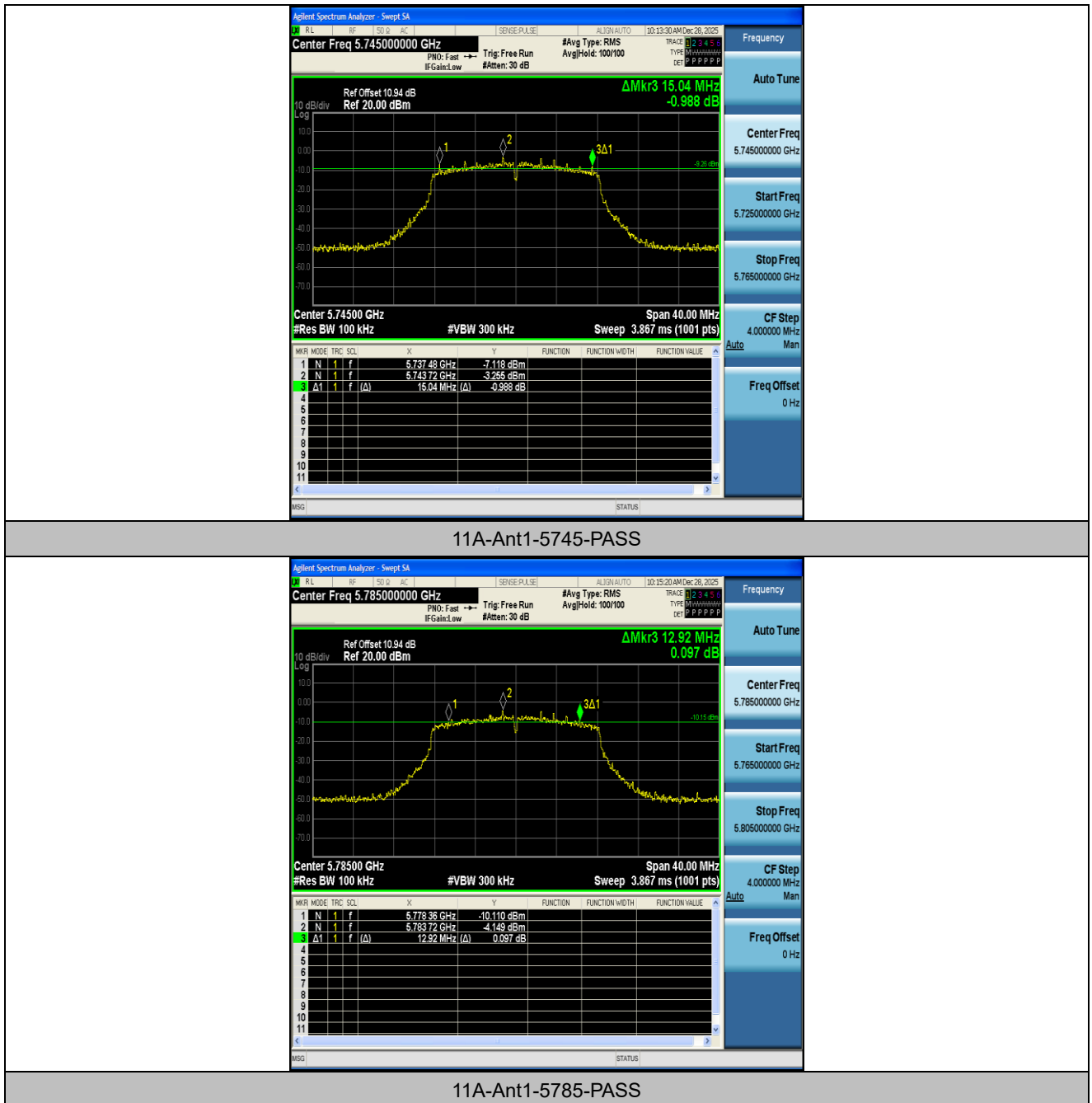
Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
11A	Ant1	5785	12.920	5778.360	5791.280	0.5	PASS
11A	Ant1	5825	15.080	5817.440	5832.520	0.5	PASS
11N20SISO	Ant1	5745	15.000	5737.440	5752.440	0.5	PASS
11N20SISO	Ant1	5785	15.080	5777.440	5792.520	0.5	PASS
11N20SISO	Ant1	5825	12.640	5818.680	5831.320	0.5	PASS
11N40SISO	Ant1	5755	27.600	5742.440	5770.040	0.5	PASS
11N40SISO	Ant1	5795	30.000	5778.760	5808.760	0.5	PASS

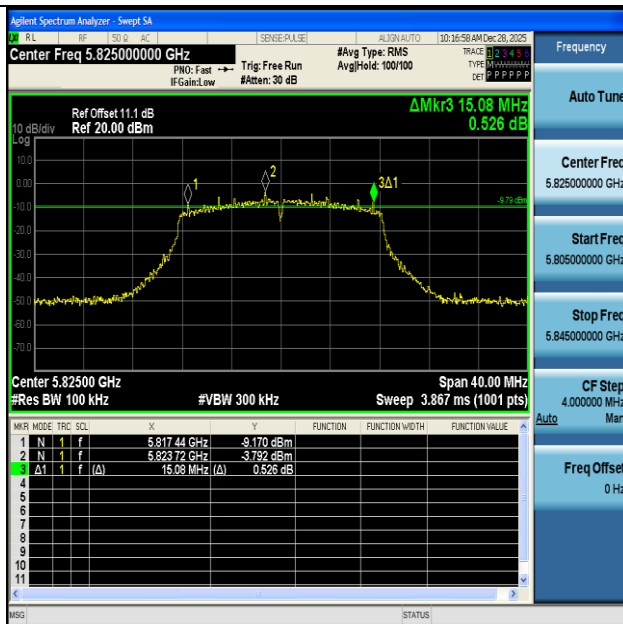
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



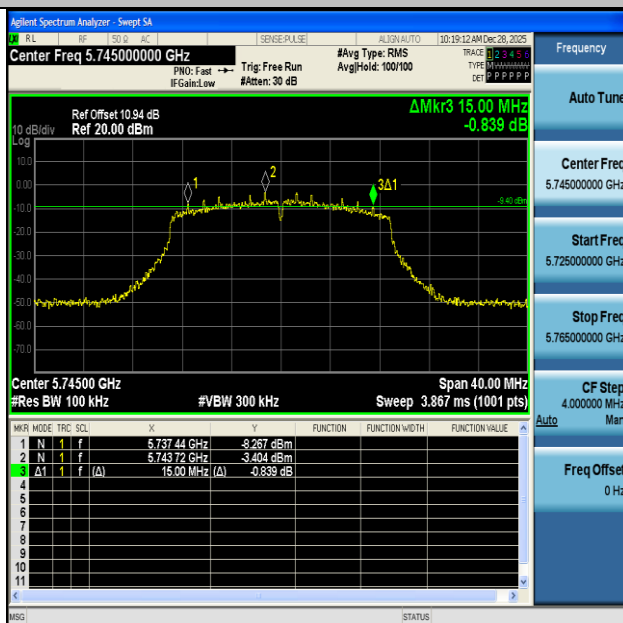


Test Graphs



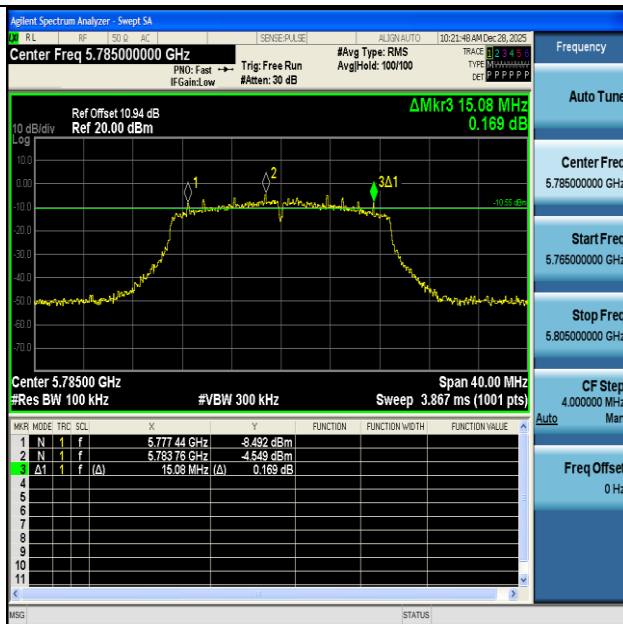


11A-Ant1-5825-PASS

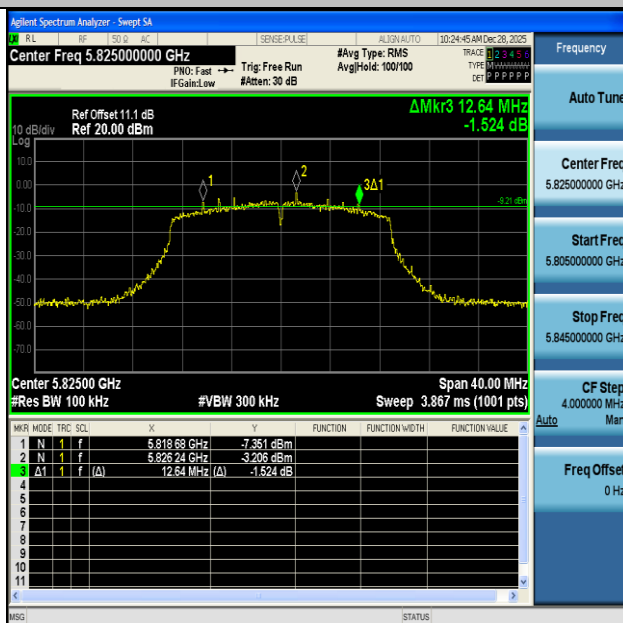


11N20SISO-Ant1-5745-PASS



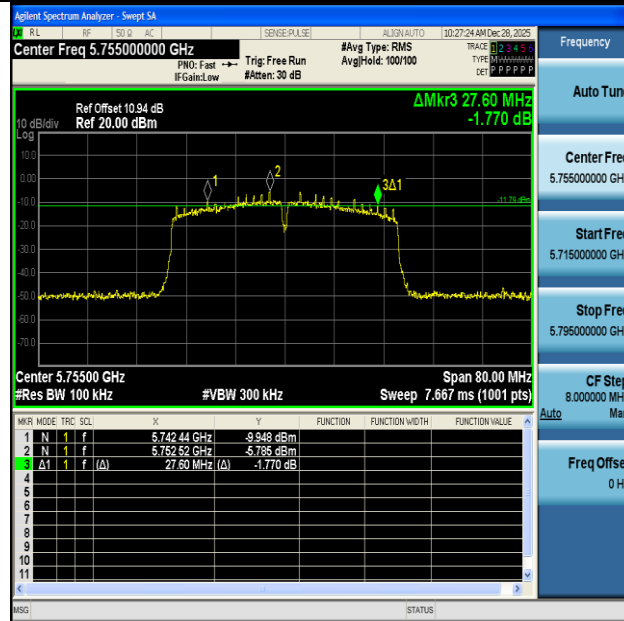


11N20SISO-Ant1-5785-PASS

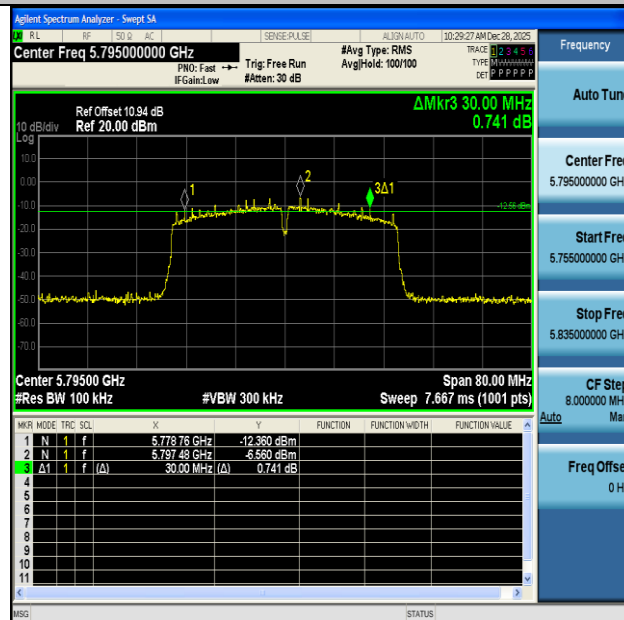


11N20SISO-Ant1-5825-PASS





11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS





Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11A	Ant1	5745	6.95	≤30.00	PASS
11A	Ant1	5785	6.03	≤30.00	PASS
11A	Ant1	5825	6.35	≤30.00	PASS
11N20SISO	Ant1	5745	6.71	≤30.00	PASS
11N20SISO	Ant1	5785	5.91	≤30.00	PASS
11N20SISO	Ant1	5825	6.10	≤30.00	PASS
11N40SISO	Ant1	5755	6.50	≤30.00	PASS
11N40SISO	Ant1	5795	5.65	≤30.00	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)





Appendix C: Maximum power spectral density

Test Result

Frequency [MHz]	Test Mode	Antenna	Result [dBm/300KHz]	RBW Factor [dB]	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
5745	11A	Ant1	-7.55	2.22	-5.33	≤30.00	PASS
5785	11A	Ant1	-8.83	2.22	-6.61	≤30.00	PASS
5825	11A	Ant1	-8.42	2.22	-6.20	≤30.00	PASS
5745	11N20SISO	Ant1	-8.03	2.22	-5.81	≤30.00	PASS
5785	11N20SISO	Ant1	-8.87	2.22	-6.65	≤30.00	PASS
5825	11N20SISO	Ant1	-8.40	2.22	-6.18	≤30.00	PASS
5755	11N40SISO	Ant1	-11.13	2.22	-8.91	≤30.00	PASS
5795	11N40SISO	Ant1	-11.80	2.22	-9.58	≤30.00	PASS

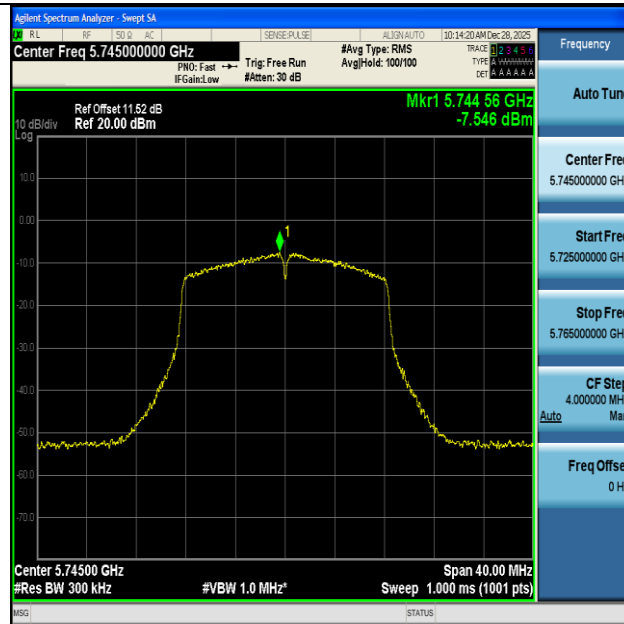
Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)

Result[dBm/500KHz] = Result[dBm/300KHz] + RB Factor(dB)

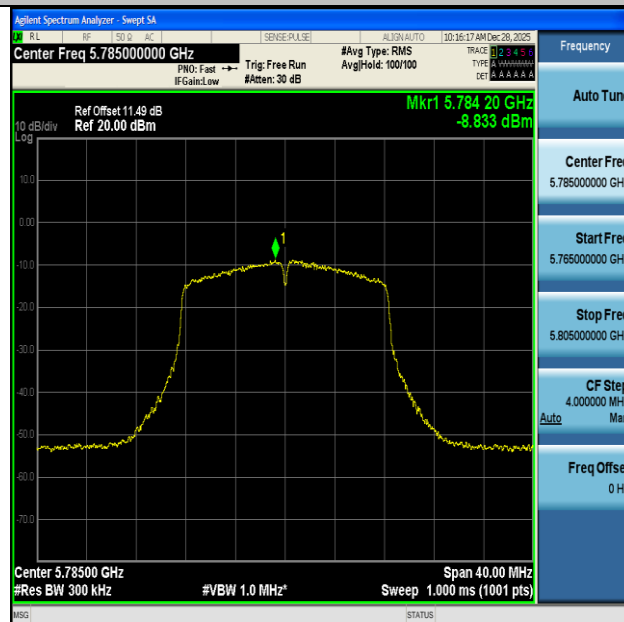




Test Graphs

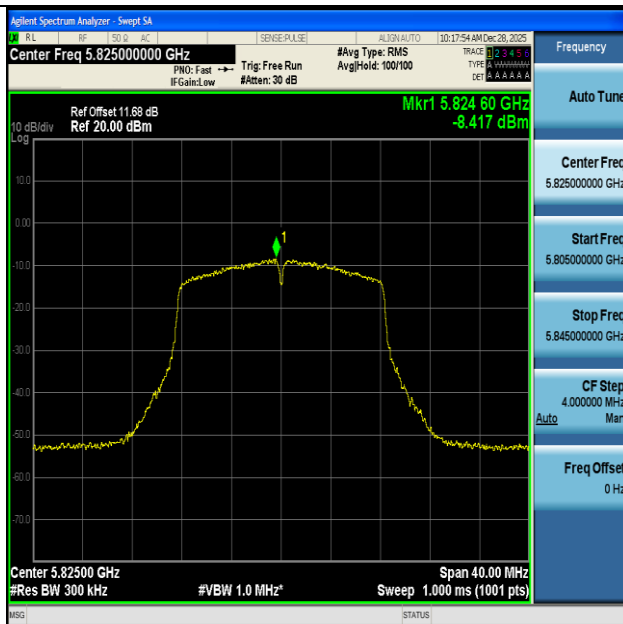


11A-Ant1-5745-PASS

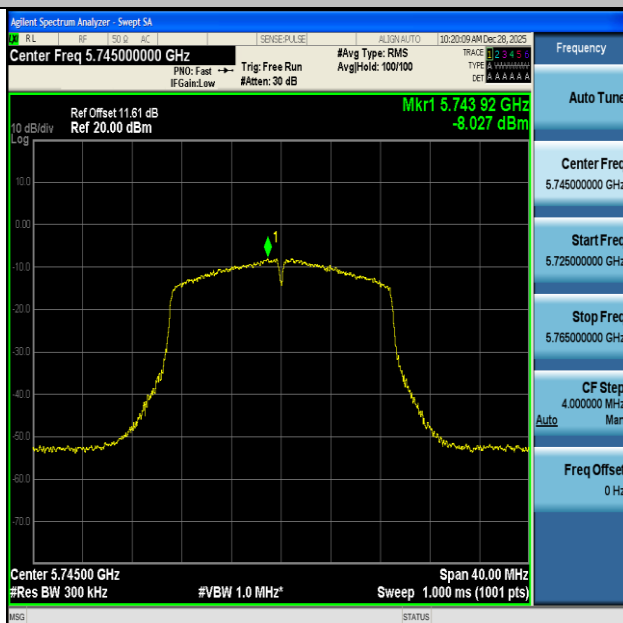


11A-Ant1-5785-PASS



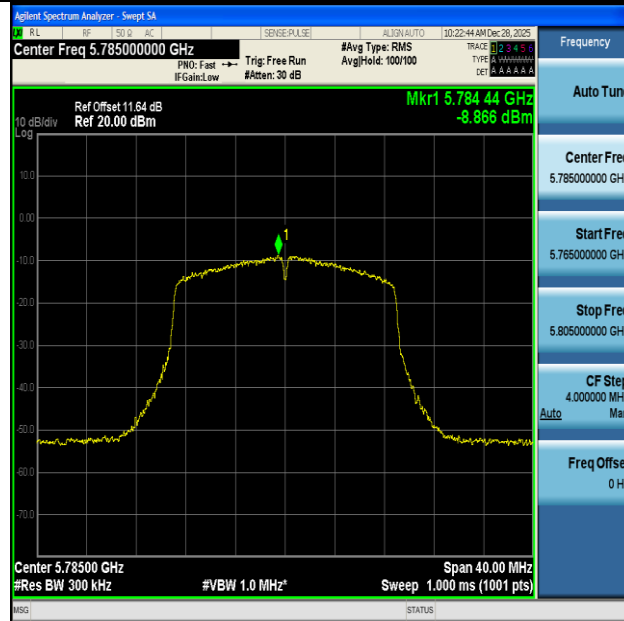


11A-Ant1-5825-PASS

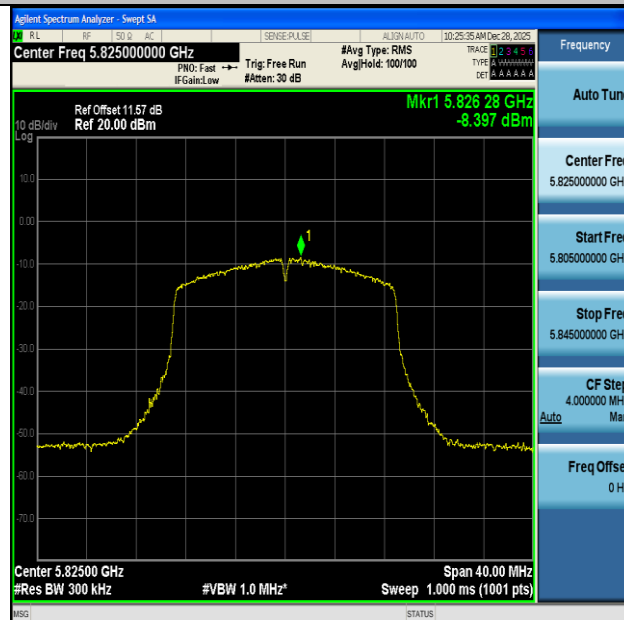


11N20SISO-Ant1-5745-PASS



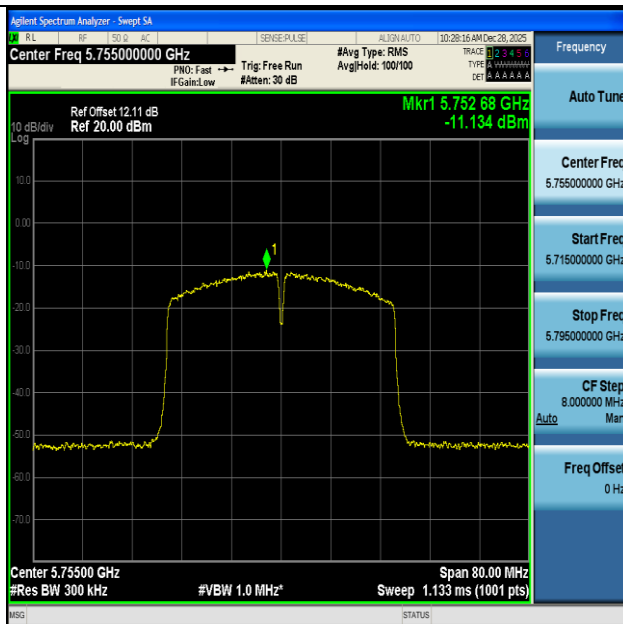


11N20SISO-Ant1-5785-PASS

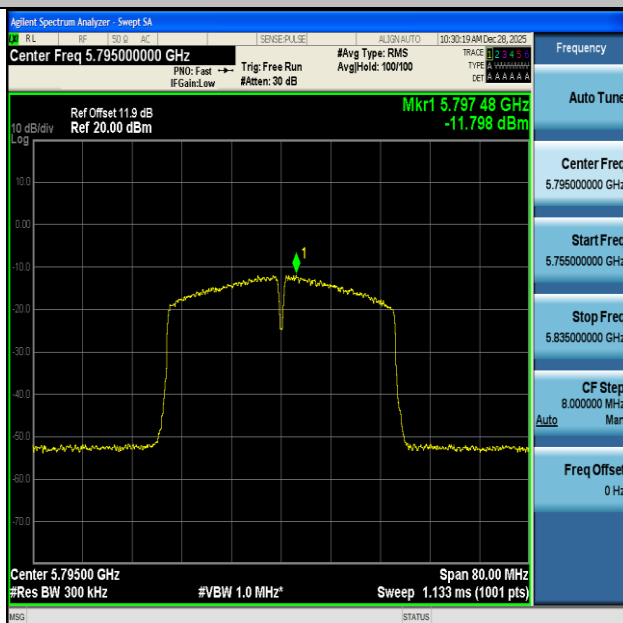


11N20SISO-Ant1-5825-PASS





11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS





Appendix D: Band edge measurements

Test Result

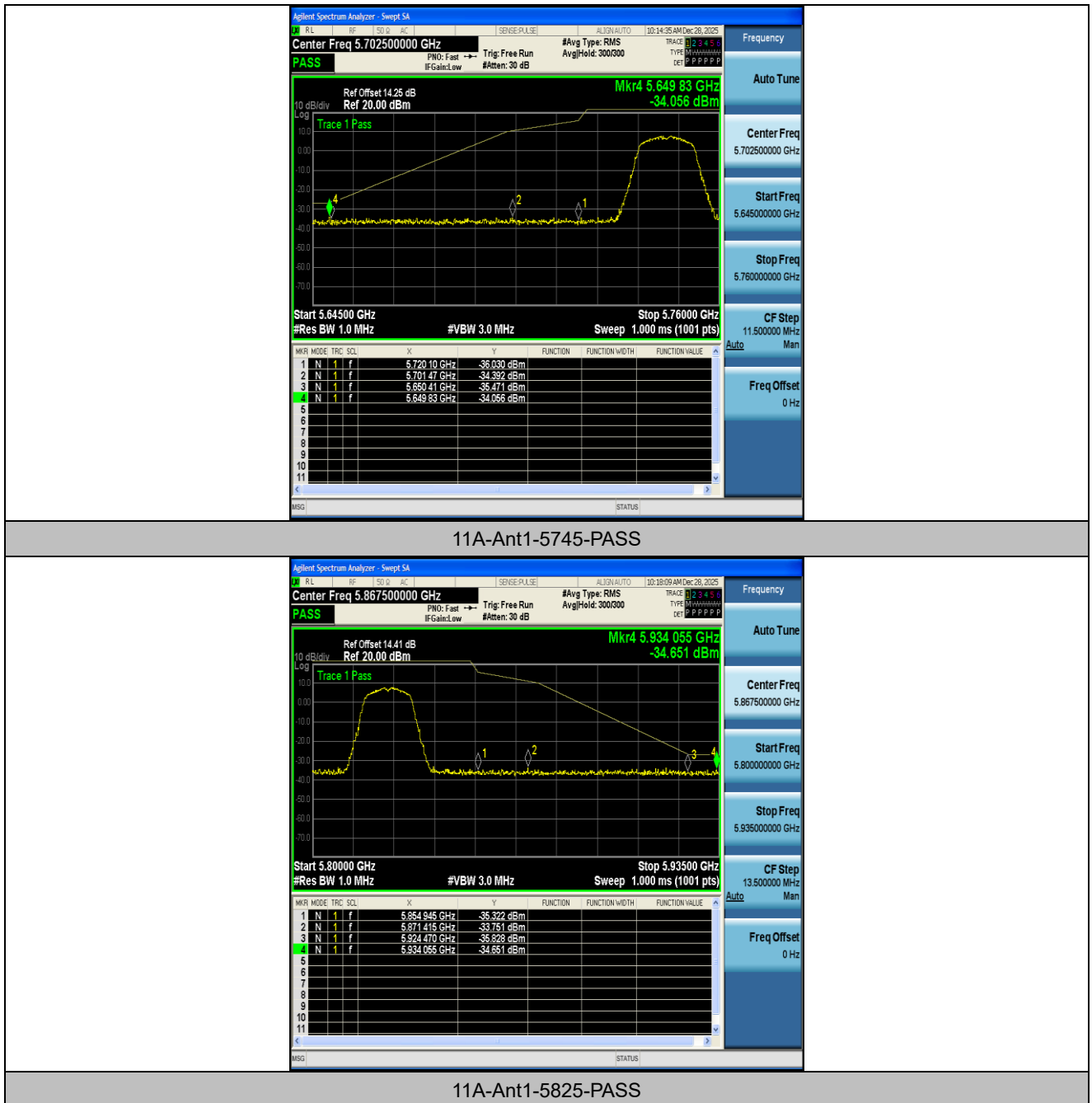
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Freq. Range [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-36.03	≤15.82	PASS
11A	Ant1	Low	5745	5700~5720	-34.39	≤10.41	PASS
11A	Ant1	Low	5745	5650~5700	-35.47	≤-26.70	PASS
11A	Ant1	Low	5745	5760~5650	-34.06	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-35.32	≤15.73	PASS
11A	Ant1	High	5825	5855~5875	-33.75	≤11.00	PASS
11A	Ant1	High	5825	5875~5925	-35.83	≤-26.61	PASS
11A	Ant1	High	5825	5925~5935	-34.65	≤-27	PASS
11N20SISO	Ant1	Low	5745	5720~5725	-35.26	≤16.87	PASS
11N20SISO	Ant1	Low	5745	5700~5720	-35.53	≤10.06	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-35.56	≤-26.45	PASS
11N20SISO	Ant1	Low	5745	5760~5650	-35.65	≤-27	PASS
11N20SISO	Ant1	High	5825	5850~5855	-34.51	≤16.96	PASS
11N20SISO	Ant1	High	5825	5855~5875	-34.32	≤10.51	PASS
11N20SISO	Ant1	High	5825	5875~5925	-34.97	≤-26.31	PASS
11N20SISO	Ant1	High	5825	5925~5935	-35.16	≤-27	PASS
11N40SISO	Ant1	Low	5755	5720~5725	-34.94	≤15.74	PASS
11N40SISO	Ant1	Low	5755	5700~5720	-34.96	≤10.25	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-36.06	≤-26.80	PASS
11N40SISO	Ant1	Low	5755	5780~5650	-35.82	≤-27	PASS
11N40SISO	Ant1	High	5795	5850~5855	-34.51	≤16.41	PASS
11N40SISO	Ant1	High	5795	5855~5875	-34.44	≤11.03	PASS
11N40SISO	Ant1	High	5795	5875~5925	-36.46	≤-26.95	PASS
11N40SISO	Ant1	High	5795	5925~5935	-35.6	≤-27	PASS

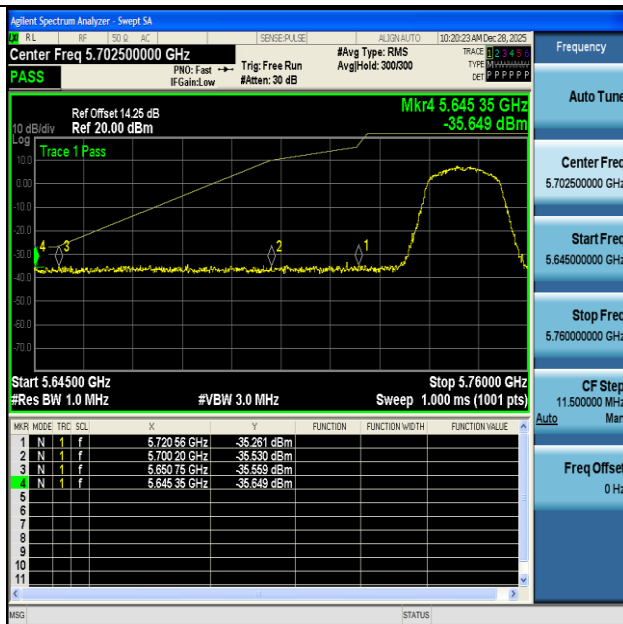
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)+antenna gain(dBi)



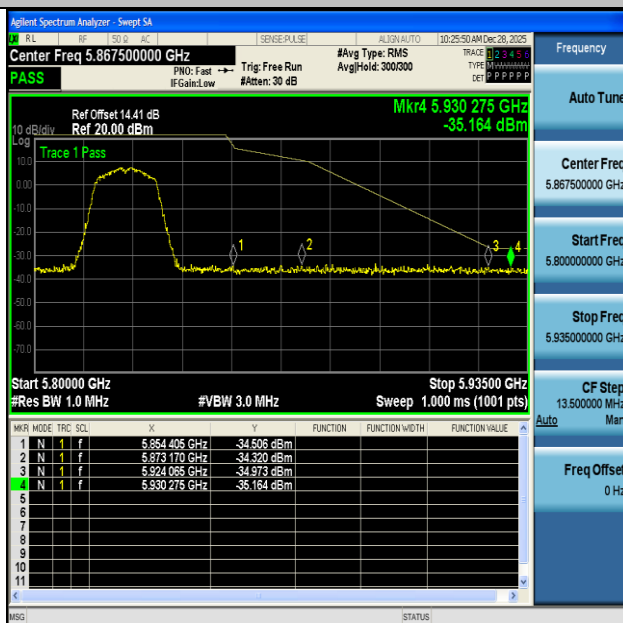


Test Graphs



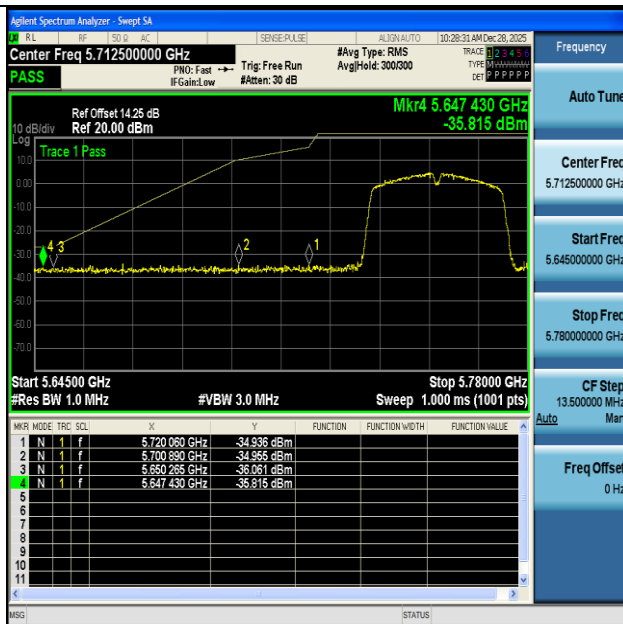


11N20SISO-Ant1-5745-PASS

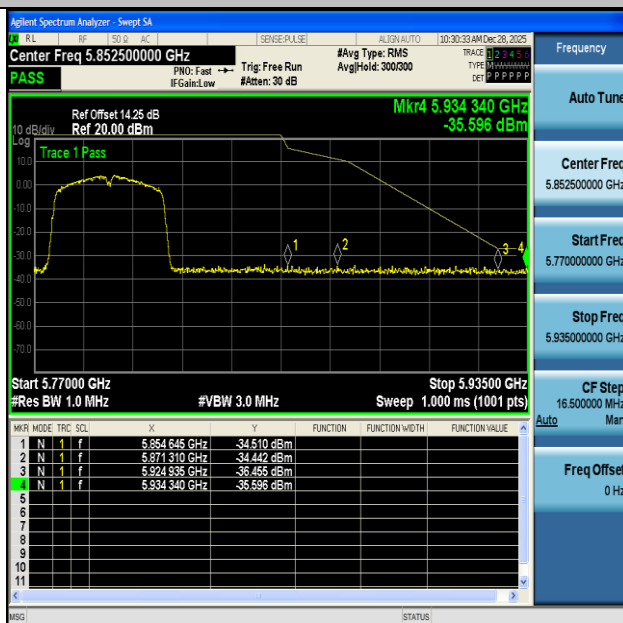


11N20SISO-Ant1-5825-PASS





11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS





Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5745	20	132	5744.900978	5725 – 5850	PASS
5745	20	108	5745.041039	5725 – 5850	PASS
5745	50	120	5744.933548	5725 – 5850	PASS
5745	40	120	5745.050945	5725 – 5850	PASS
5745	30	120	5745.009926	5725 – 5850	PASS
5745	20	120	5744.907202	5725 – 5850	PASS
5745	10	120	5745.076732	5725 – 5850	PASS
5745	0	120	5745.084333	5725 – 5850	PASS
5745	-10	120	5744.903159	5725 – 5850	PASS
5745	-20	120	5745.033055	5725 – 5850	PASS
5745	-30	120	5745.059729	5725 – 5850	PASS





Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5785	20	132	5784.918658	5725 – 5850	PASS
5785	20	108	5784.976167	5725 – 5850	PASS
5785	50	120	5785.027551	5725 – 5850	PASS
5785	40	120	5784.962090	5725 – 5850	PASS
5785	30	120	5784.990629	5725 – 5850	PASS
5785	20	120	5784.998354	5725 – 5850	PASS
5785	10	120	5785.012681	5725 – 5850	PASS
5785	0	120	5785.059765	5725 – 5850	PASS
5785	-10	120	5784.912339	5725 – 5850	PASS
5785	-20	120	5785.074352	5725 – 5850	PASS
5785	-30	120	5784.912952	5725 – 5850	PASS





Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5825	20	132	5824.902968	5725 – 5850	PASS
5825	20	108	5824.910994	5725 – 5850	PASS
5825	50	120	5824.955446	5725 – 5850	PASS
5825	40	120	5824.950636	5725 – 5850	PASS
5825	30	120	5824.982370	5725 – 5850	PASS
5825	20	120	5825.085909	5725 – 5850	PASS
5825	10	120	5824.906989	5725 – 5850	PASS
5825	0	120	5825.008848	5725 – 5850	PASS
5825	-10	120	5824.975844	5725 – 5850	PASS
5825	-20	120	5824.953194	5725 – 5850	PASS
5825	-30	120	5825.032182	5725 – 5850	PASS





Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5755	20	132	5755.085781	5725 – 5850	PASS
5755	20	108	5755.018576	5725 – 5850	PASS
5755	50	120	5754.997551	5725 – 5850	PASS
5755	40	120	5755.045244	5725 – 5850	PASS
5755	30	120	5755.005085	5725 – 5850	PASS
5755	20	120	5754.993754	5725 – 5850	PASS
5755	10	120	5755.045784	5725 – 5850	PASS
5755	0	120	5754.938192	5725 – 5850	PASS
5755	-10	120	5755.050014	5725 – 5850	PASS
5755	-20	120	5754.939851	5725 – 5850	PASS
5755	-30	120	5755.084397	5725 – 5850	PASS





Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5795	20	132	5794.976560	5725 – 5850	PASS
5795	20	108	5794.980464	5725 – 5850	PASS
5795	50	120	5795.053547	5725 – 5850	PASS
5795	40	120	5795.071755	5725 – 5850	PASS
5795	30	120	5794.989789	5725 – 5850	PASS
5795	20	120	5794.909062	5725 – 5850	PASS
5795	10	120	5795.070606	5725 – 5850	PASS
5795	0	120	5794.943231	5725 – 5850	PASS
5795	-10	120	5794.943866	5725 – 5850	PASS
5795	-20	120	5795.024793	5725 – 5850	PASS
5795	-30	120	5795.006434	5725 – 5850	PASS





Appendix F: Conducted Spurious Emission

Test Result

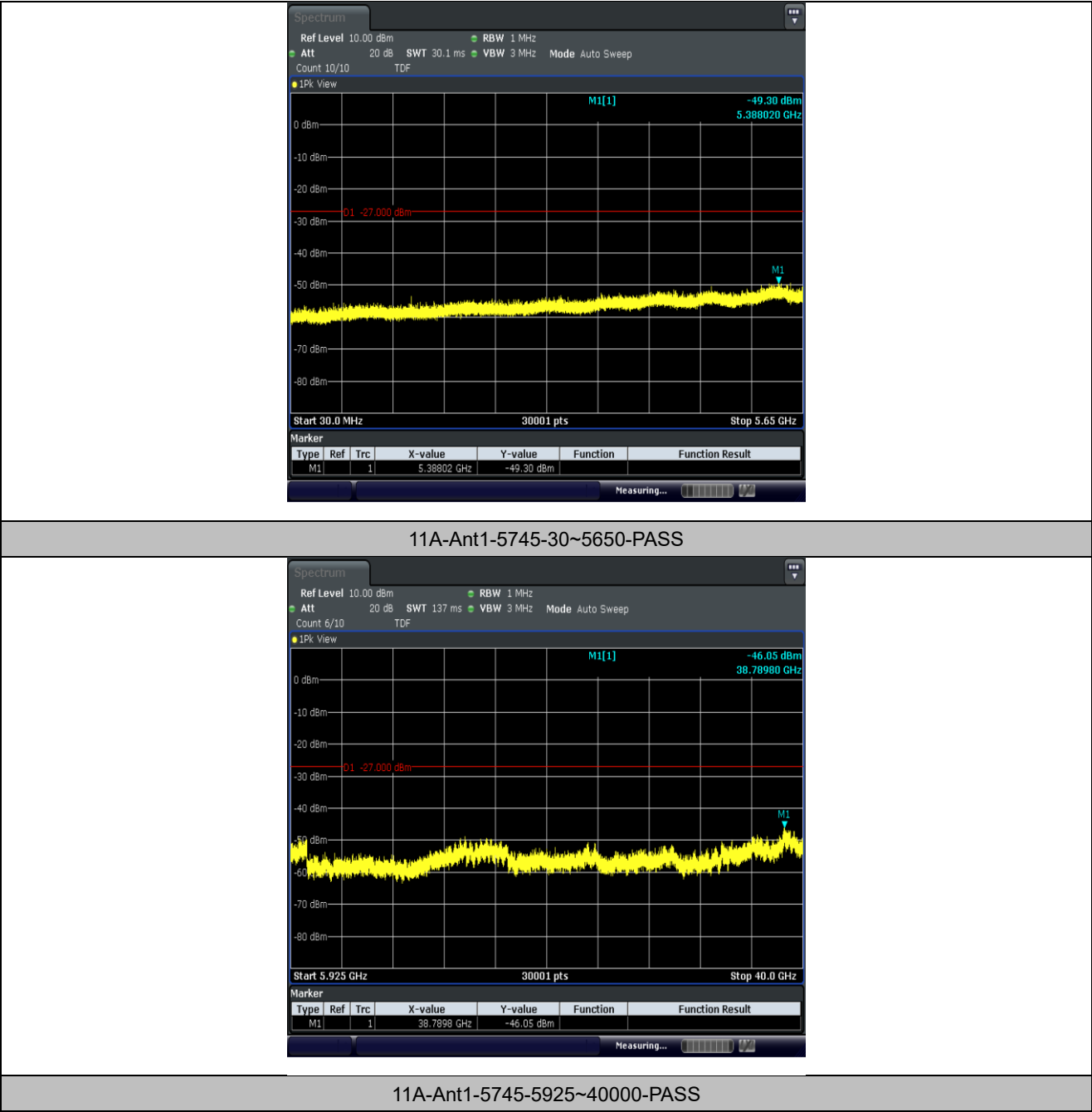
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5388.02	-49.3	≤-27	PASS
11A	Ant1	5745	5925~40000	38789.8	-46.05	≤-27	PASS
11A	Ant1	5785	30~5650	5407.32	-49.46	≤-27	PASS
11A	Ant1	5785	5925~40000	39082.8	-45.91	≤-27	PASS
11A	Ant1	5825	30~5650	5416.87	-49.81	≤-27	PASS
11A	Ant1	5825	5925~40000	38784.1	-46.64	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5432.98	-49.23	≤-27	PASS
11N20SISO	Ant1	5745	5925~40000	39109	-45.6	≤-27	PASS
11N20SISO	Ant1	5785	30~5650	5417.25	-49.68	≤-27	PASS
11N20SISO	Ant1	5785	5925~40000	38792.1	-45.82	≤-27	PASS
11N20SISO	Ant1	5825	30~5650	5365.73	-48.86	≤-27	PASS
11N20SISO	Ant1	5825	5925~40000	38751.2	-45.17	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5379.78	-49.29	≤-27	PASS
11N40SISO	Ant1	5755	5925~40000	39062.4	-45.64	≤-27	PASS
11N40SISO	Ant1	5795	30~5650	5380.53	-49.3	≤-27	PASS
11N40SISO	Ant1	5795	5925~40000	39113.5	-45.96	≤-27	PASS

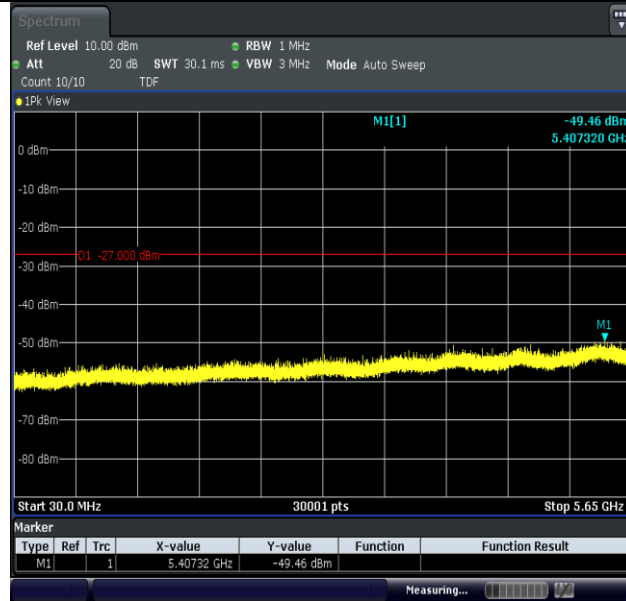
Note: For spurious emissions plots from 30MHz to 40 GHz, the cable loss , attenuator factors and antenna gain have been set in the 'TDF' of the Spectrum Analyzer during the test.



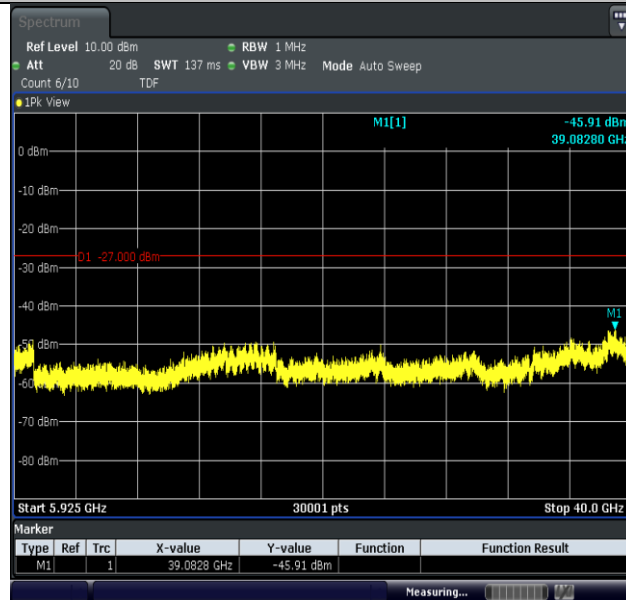


Test Graphs



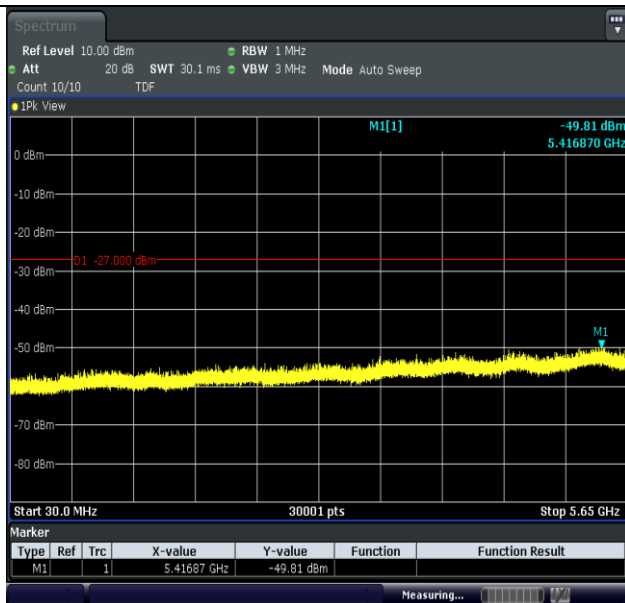


11A-Ant1-5785-30~5650-PASS

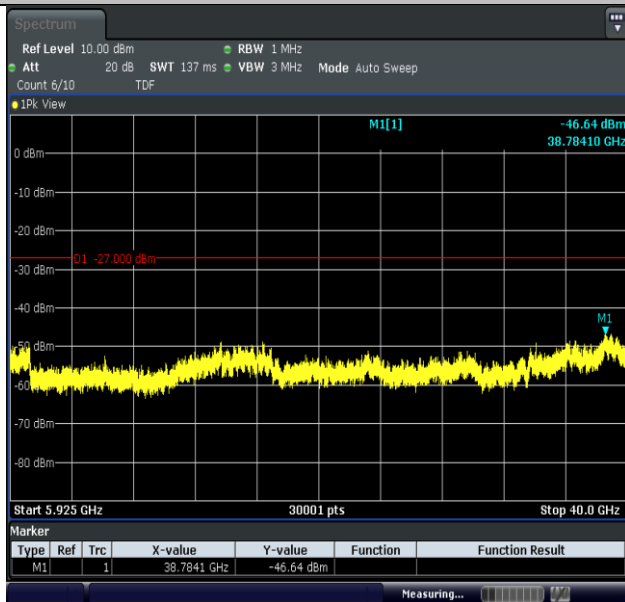


11A-Ant1-5785-5925~40000-PASS



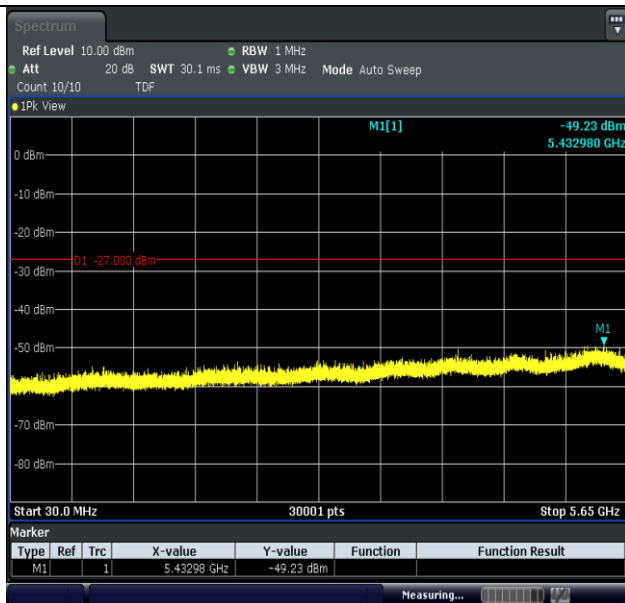


11A-Ant1-5825-30~5650-PASS

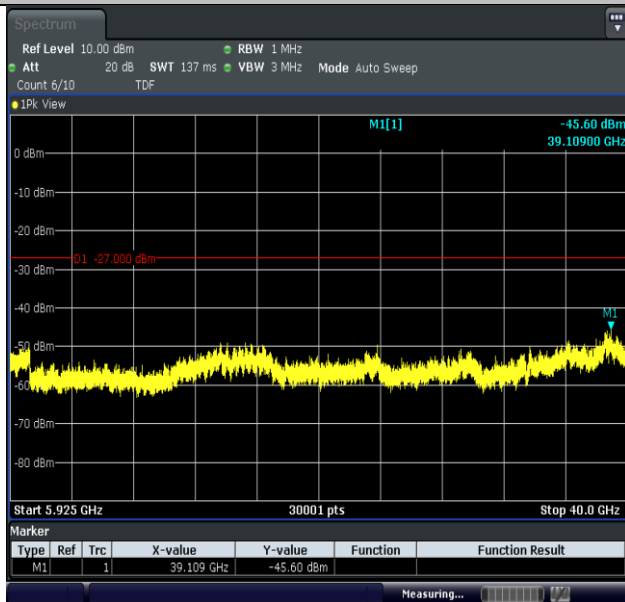


11A-Ant1-5825-5925~40000-PASS



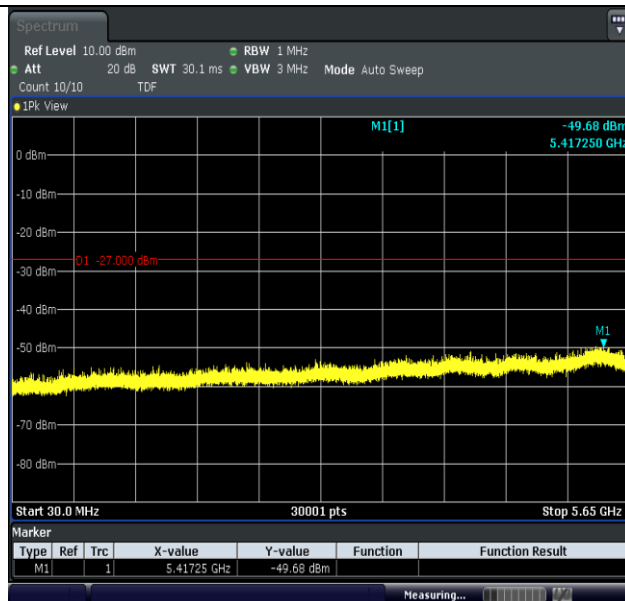


11N20SISO-Ant1-5745-30~5650-PASS

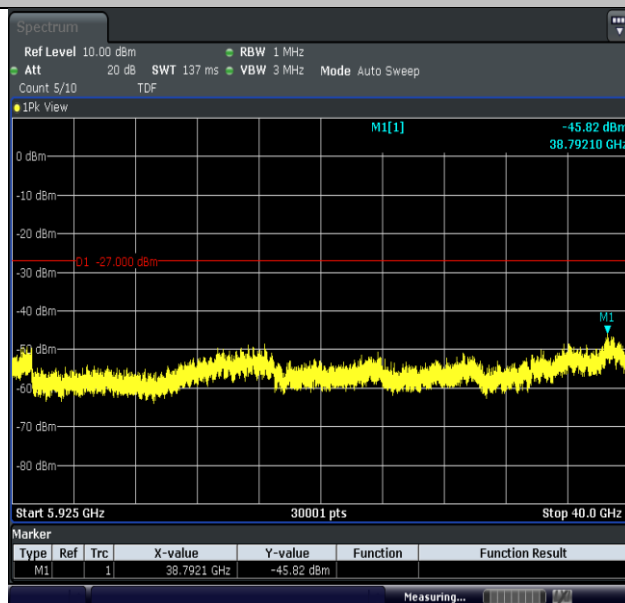


11N20SISO-Ant1-5745-5925~40000-PASS



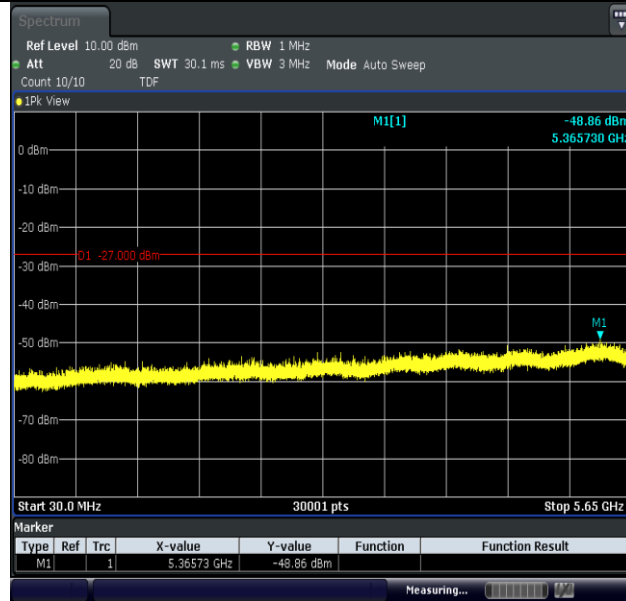


11N20SISO-Ant1-5785-30~5650-PASS

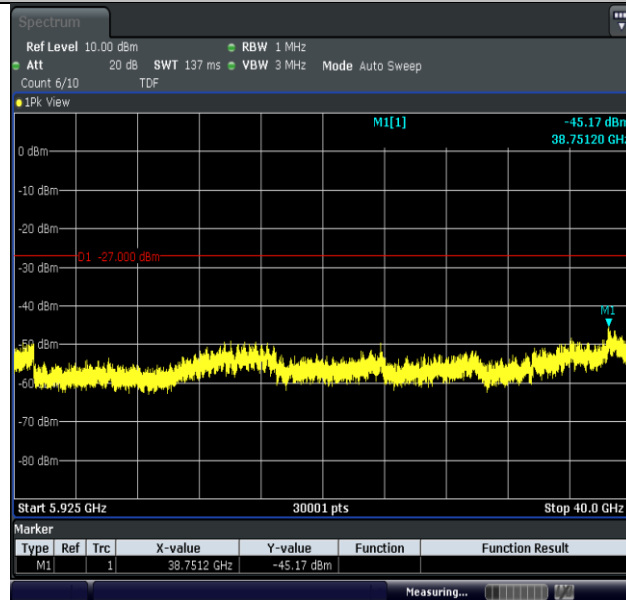


11N20SISO-Ant1-5785-5925~40000-PASS



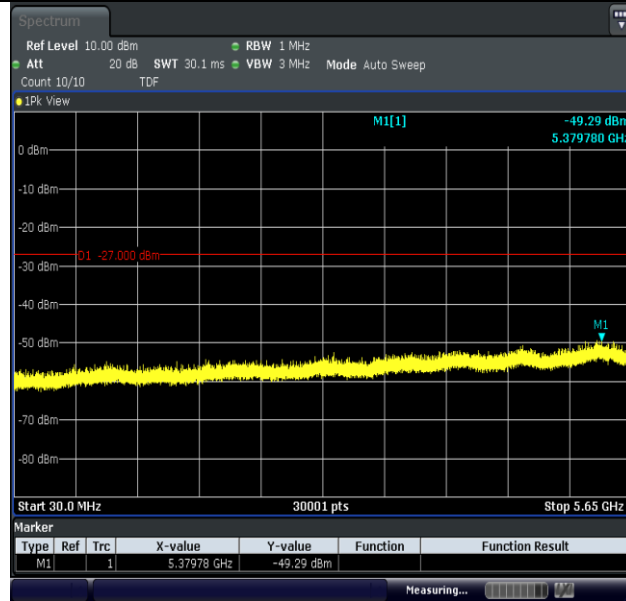


11N20SISO-Ant1-5825-30~5650-PASS

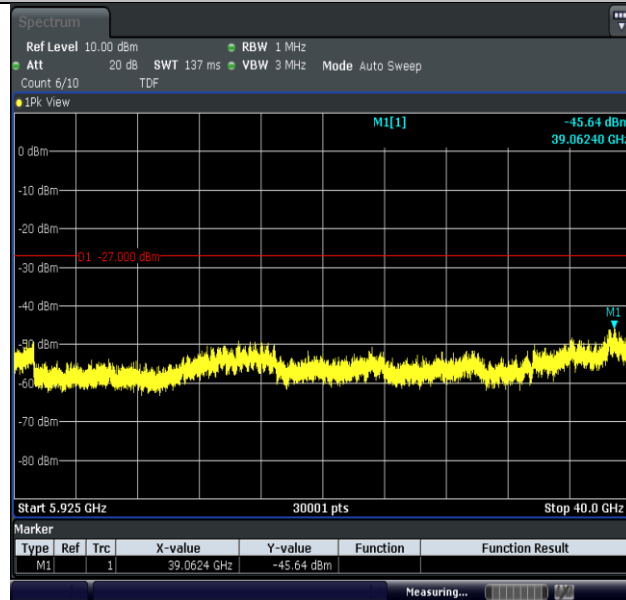


11N20SISO-Ant1-5825-5925~40000-PASS



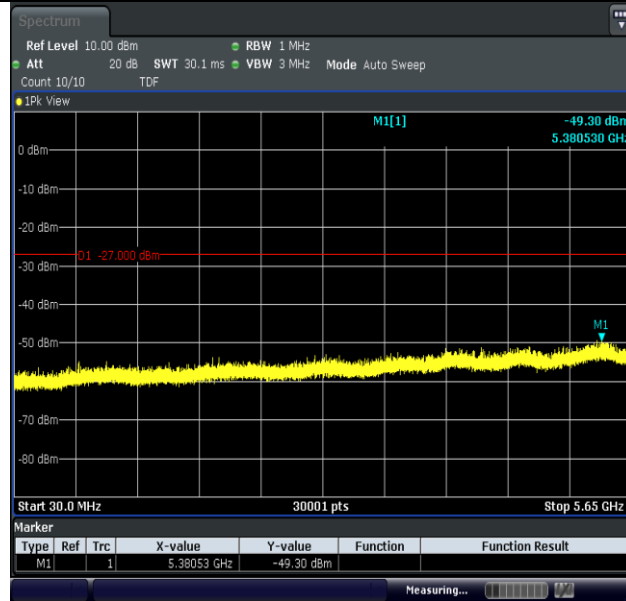


11N40SISO-Ant1-5755-30~5650-PASS

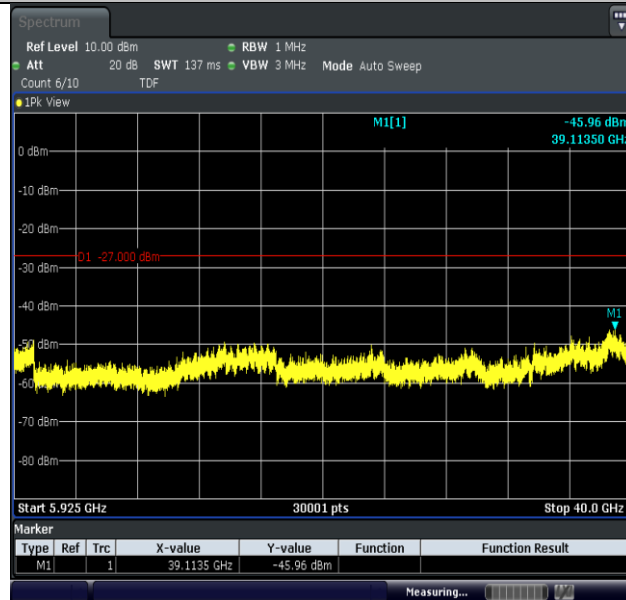


11N40SISO-Ant1-5755-5925~40000-PASS





11N40SISO-Ant1-5795-30~5650-PASS



11N40SISO-Ant1-5795-5925~40000-PASS





Appendix G: Duty Cycle

Test Result

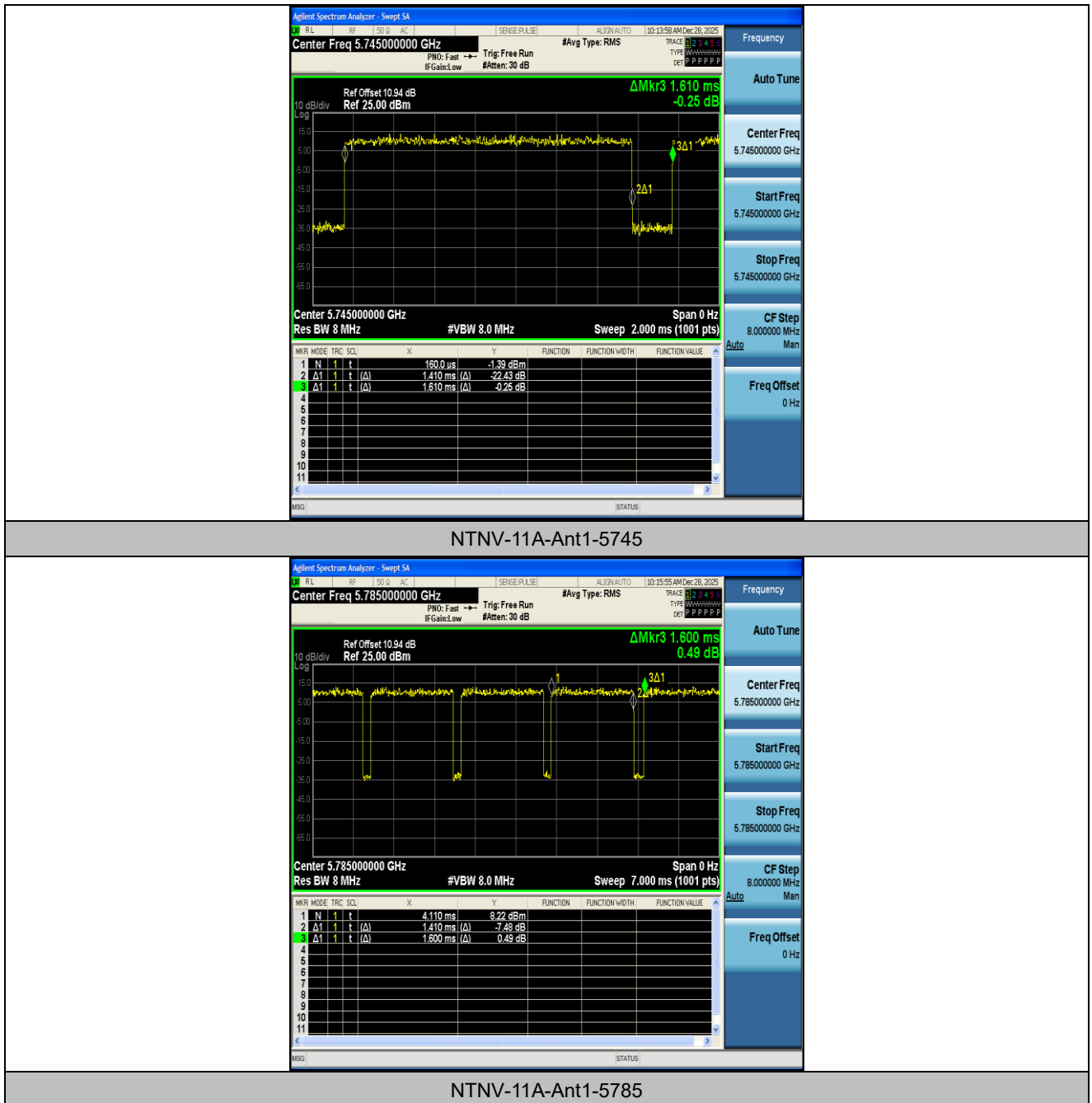
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc. Factor [%]	1/T
11A	Ant1	5745	1.41	1.61	87.58	0.58	0.71
11A	Ant1	5785	1.41	1.60	88.13	0.55	0.71
11A	Ant1	5825	1.41	1.61	87.58	0.58	0.71
11N20SISO	Ant1	5745	1.32	1.54	85.71	0.67	0.76
11N20SISO	Ant1	5785	1.31	1.54	85.06	0.70	0.76
11N20SISO	Ant1	5825	1.32	1.47	89.80	0.47	0.76
11N40SISO	Ant1	5755	0.65	0.85	76.47	1.17	1.54
11N40SISO	Ant1	5795	0.65	0.81	80.25	0.96	1.54

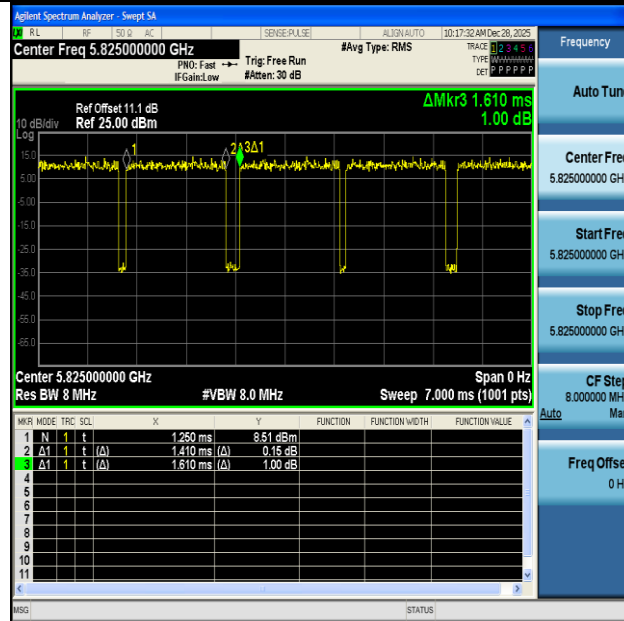
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



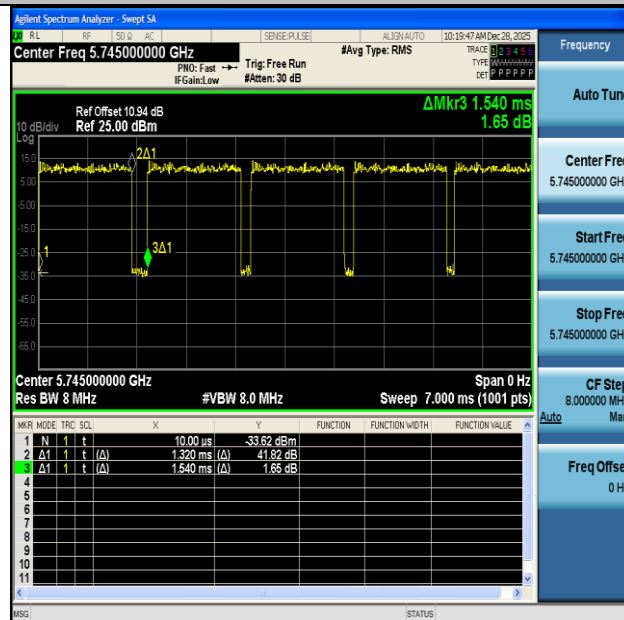


Test Graphs



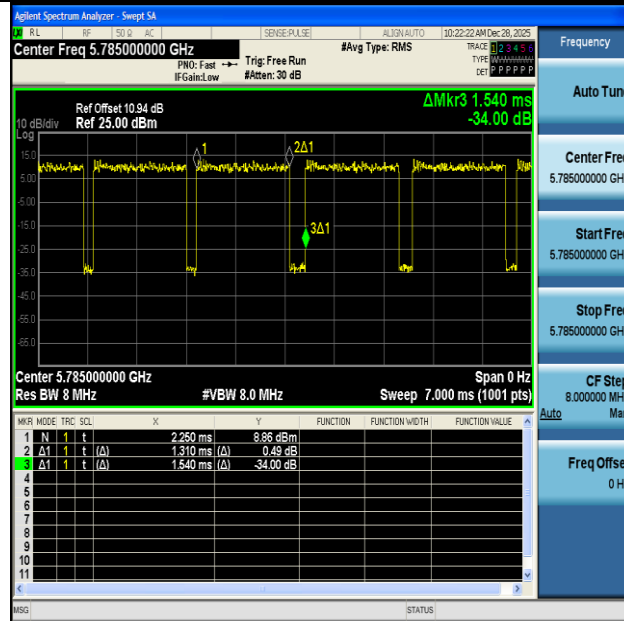


NTNV-11A-Ant1-5825

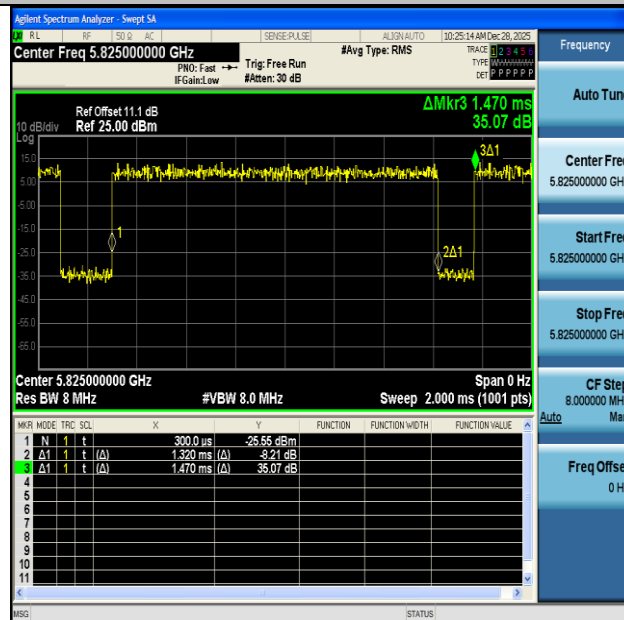


NTNV-11N20SISO-Ant1-5745



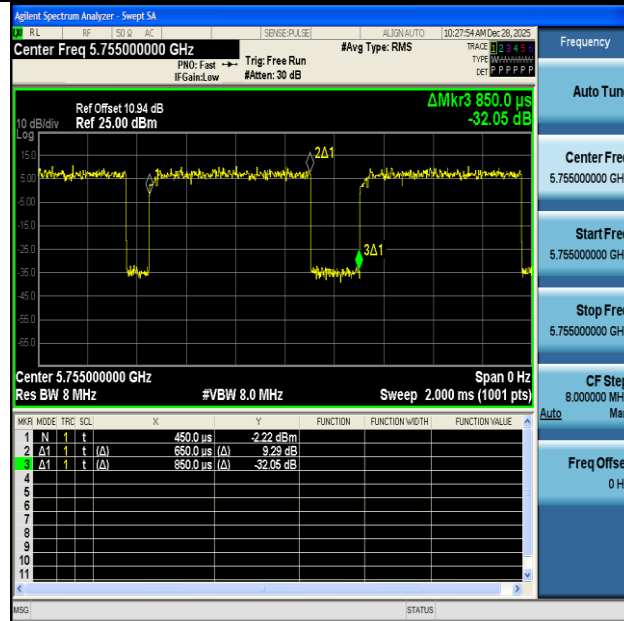


NTNV-11N20SISO-Ant1-5785

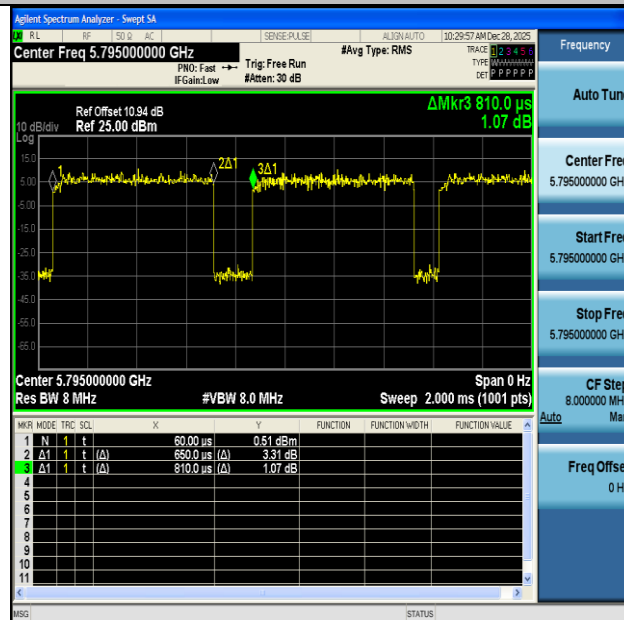


NTNV-11N20SISO-Ant1-5825





NTNV-11N40SISO-Ant1-5755



NTNV-11N40SISO-Ant1-5795

