

FCC Appendix RF Test Data for 5.8GWIFI

Company: : Shenzhen Vikcent Technology Co., Ltd.

EUT : Magic Mirror Appliance

Model Number : MMA21-4-A

FCC ID : 2BTT6-MMA21-4-A

Report No. : CTA25111301804

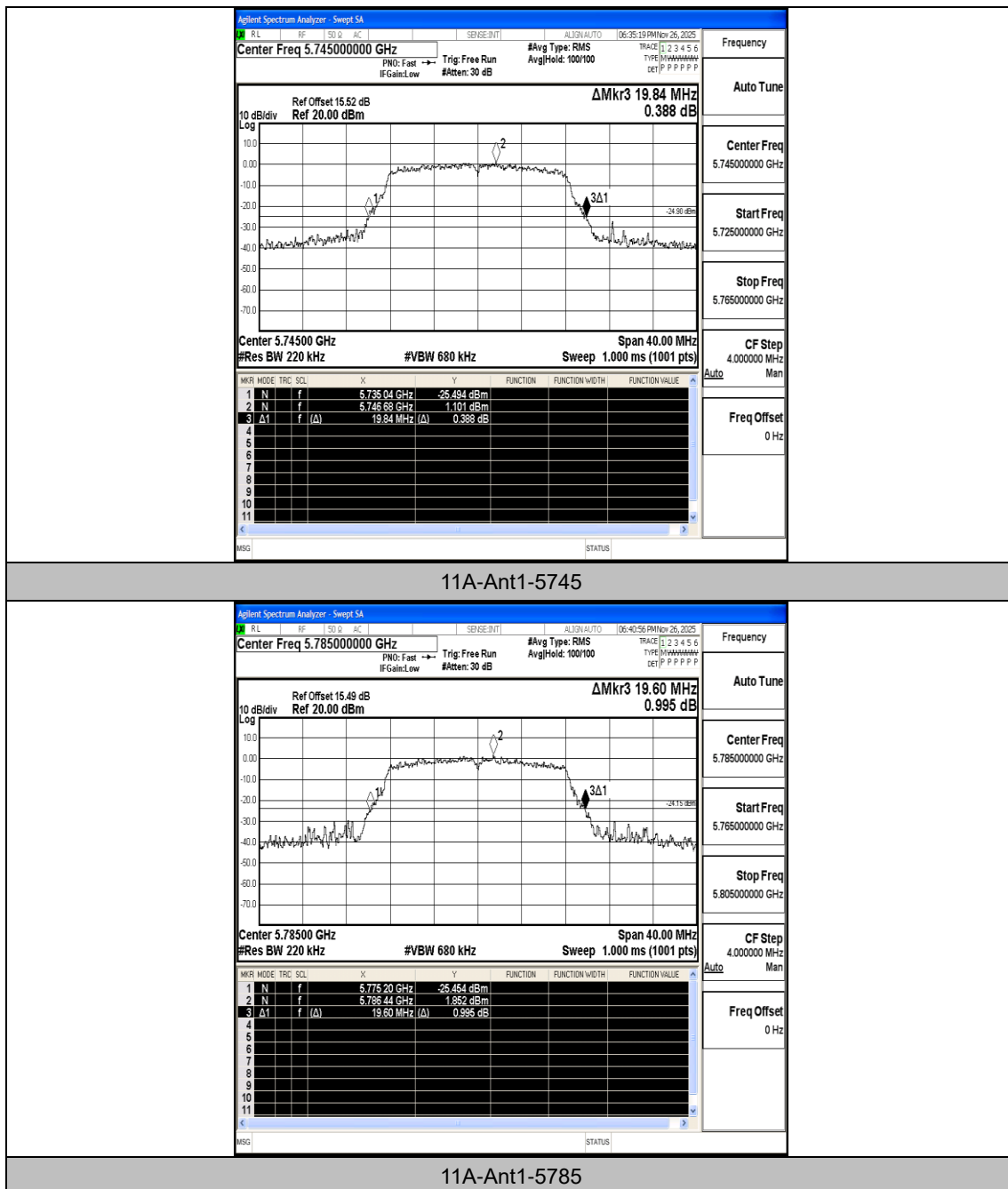
Reviewed By : Eric Wang

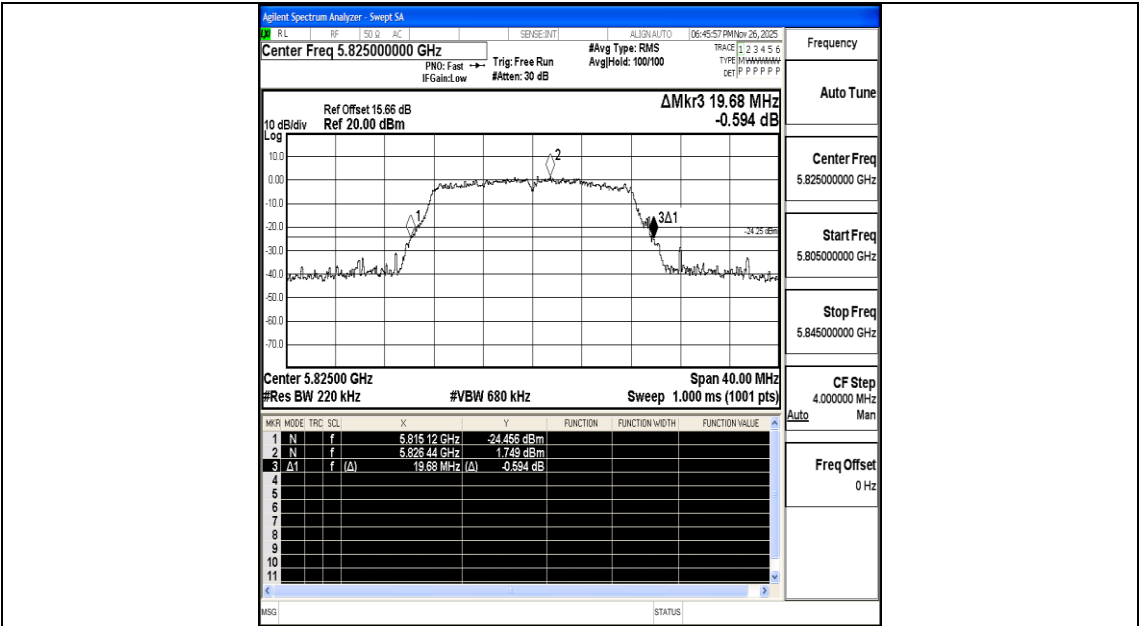
Appendix A1: Emission Bandwidth

Test Result

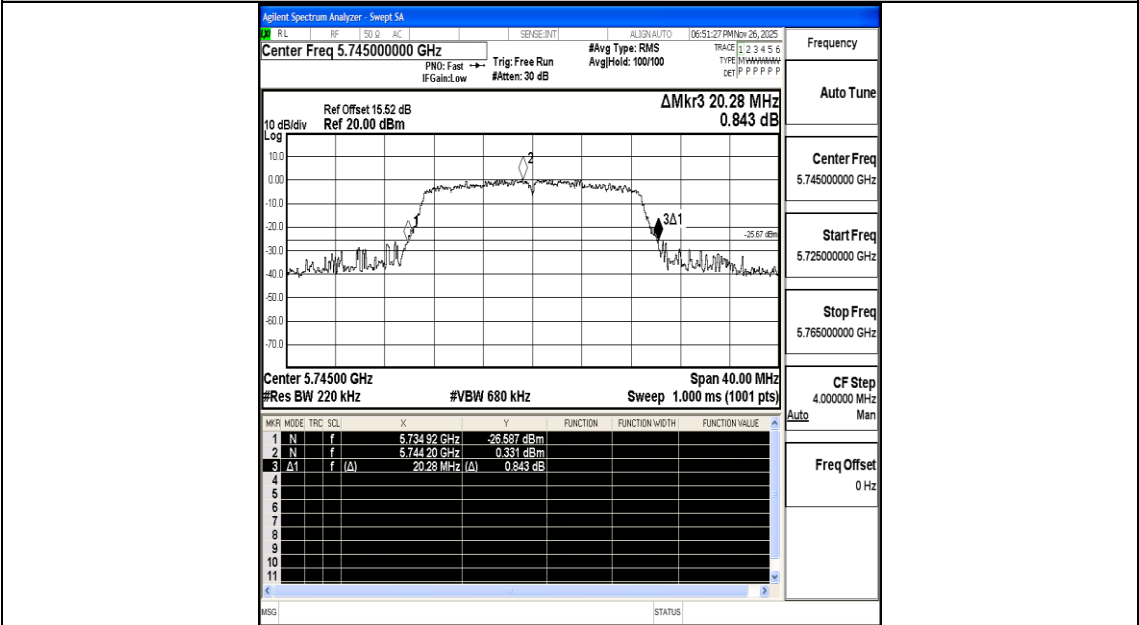
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	19.840	5735.040	5754.880	---	---
11A	Ant1	5785	19.600	5775.200	5794.800	---	---
11A	Ant1	5825	19.680	5815.120	5834.800	---	---
11N20SISO	Ant1	5745	20.280	5734.920	5755.200	---	---
11N20SISO	Ant1	5785	20.320	5774.800	5795.120	---	---
11N20SISO	Ant1	5825	19.840	5815.120	5834.960	---	---
11N40SISO	Ant1	5755	40.080	5735.080	5775.160	---	---
11N40SISO	Ant1	5795	40.800	5774.360	5815.160	---	---
11AC20SISO	Ant1	5745	20.040	5735.000	5755.040	---	---
11AC20SISO	Ant1	5785	20.120	5774.920	5795.040	---	---
11AC20SISO	Ant1	5825	20.040	5814.960	5835.000	---	---
11AC40SISO	Ant1	5755	40.400	5734.840	5775.240	---	---
11AC40SISO	Ant1	5795	40.640	5774.600	5815.240	---	---
11AX20SISO	Ant1	5745	20.200	5734.840	5755.040	---	---
11AX20SISO	Ant1	5785	20.080	5774.920	5795.000	---	---
11AX20SISO	Ant1	5825	19.920	5815.000	5834.920	---	---
11AX40SISO	Ant1	5755	40.400	5734.840	5775.240	---	---
11AX40SISO	Ant1	5795	40.960	5774.440	5815.400	---	---

Test Graphs

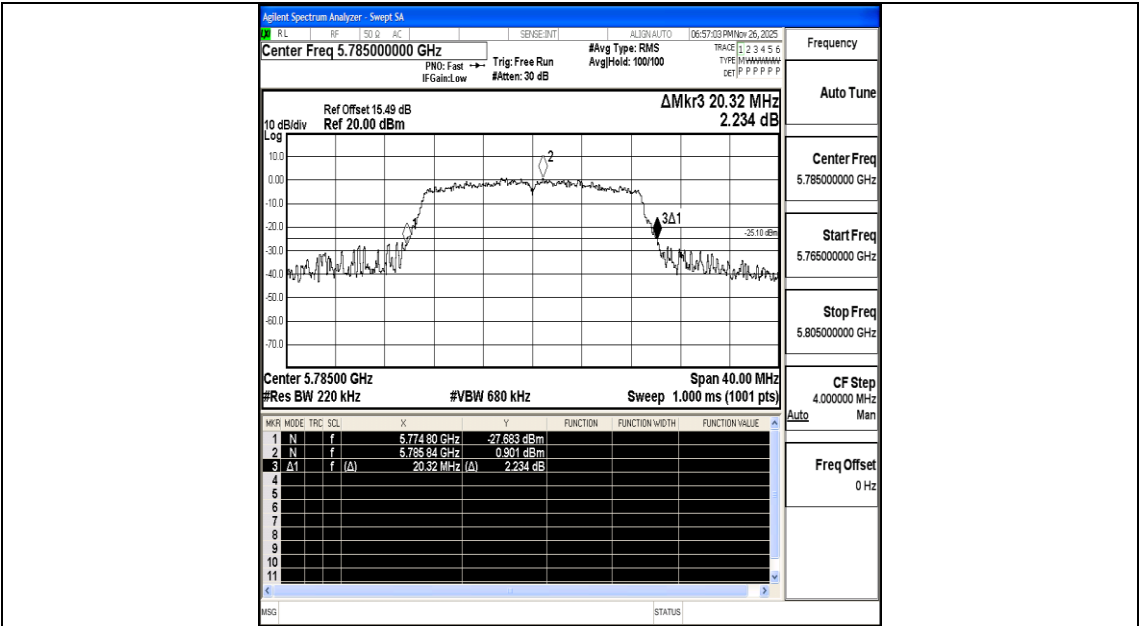




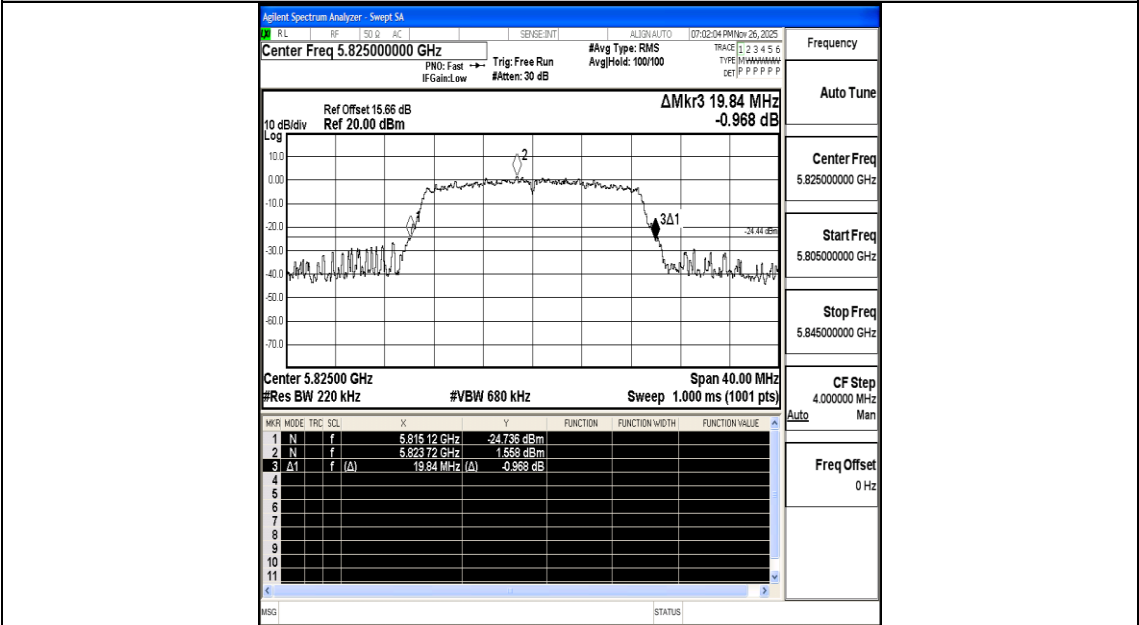
11A-Ant1-5825



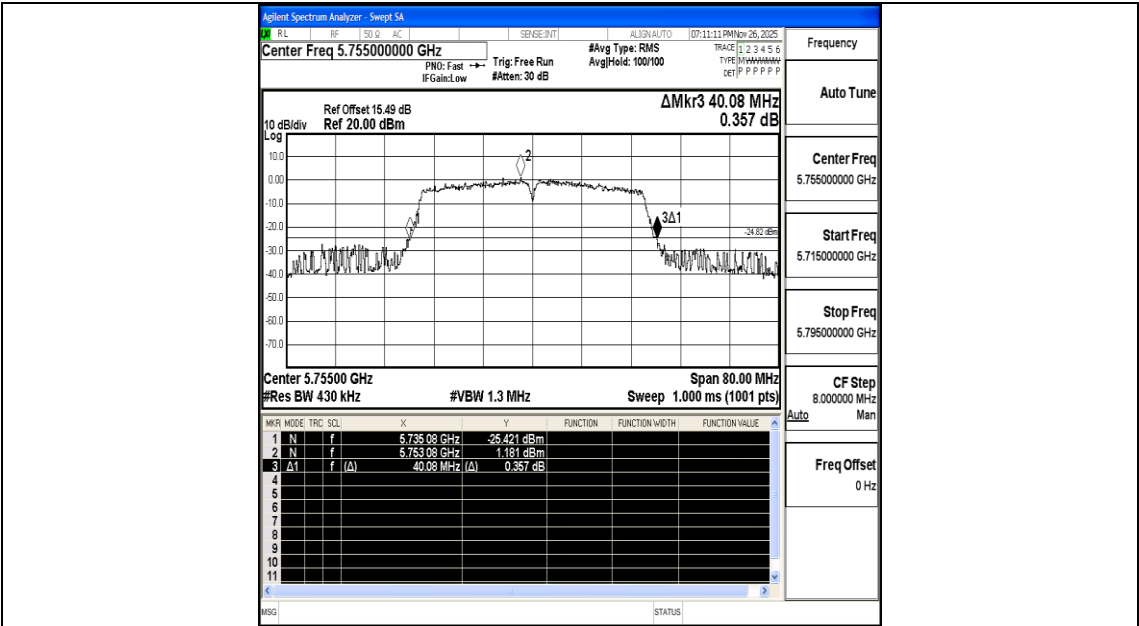
11N20ISO-Ant1-5745



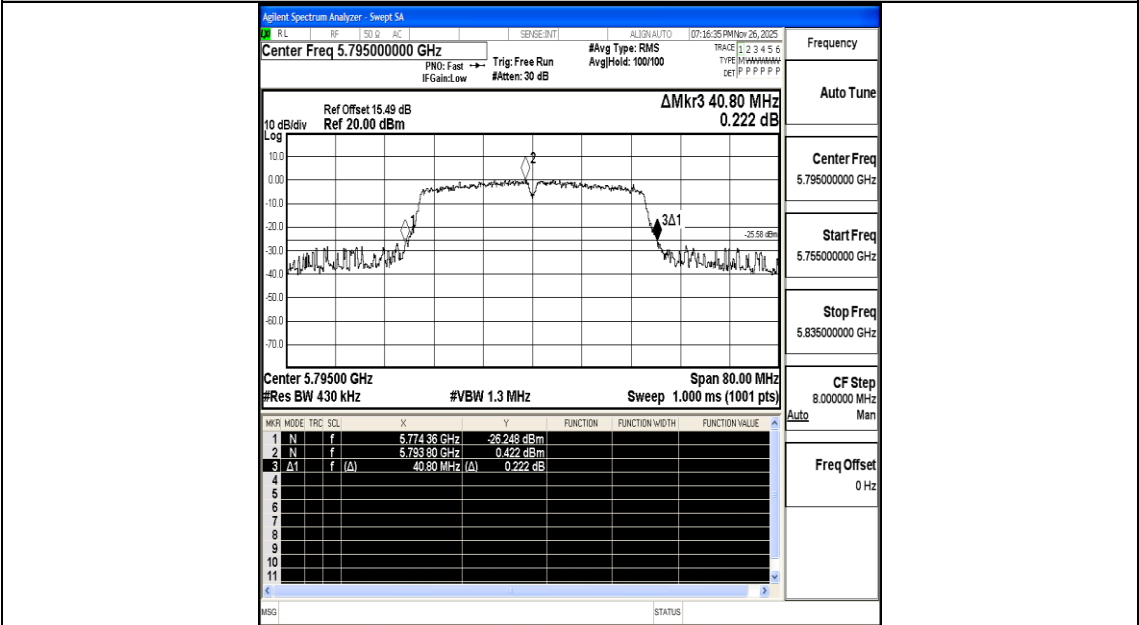
11N20SISO-Ant1-5785



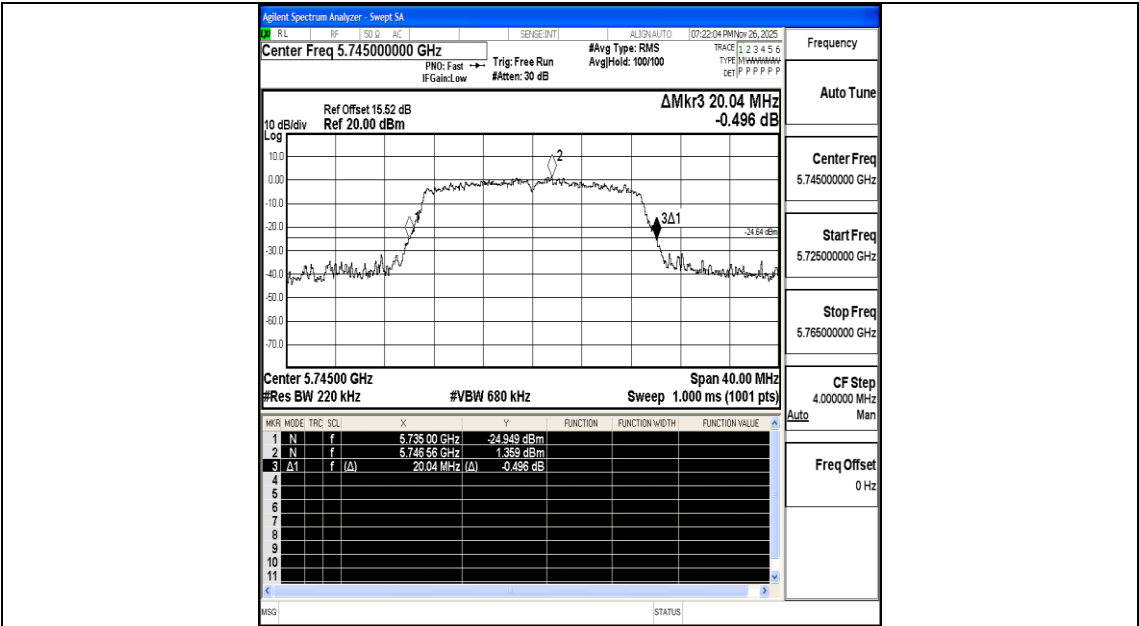
11N20SISO-Ant1-5825



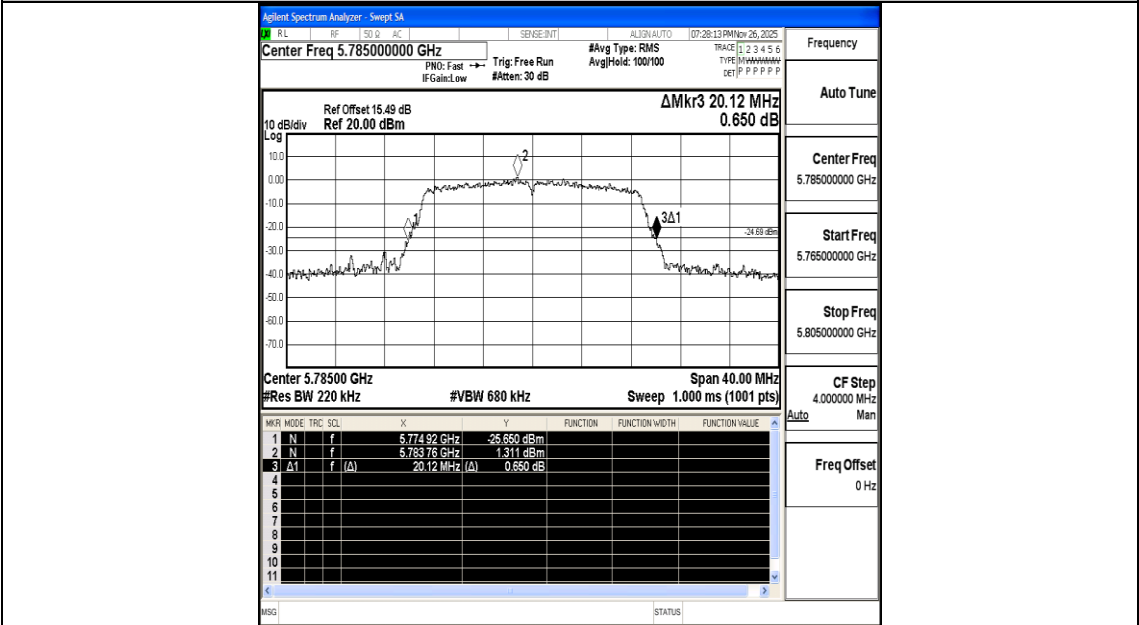
11N40SISO-Ant1-5755



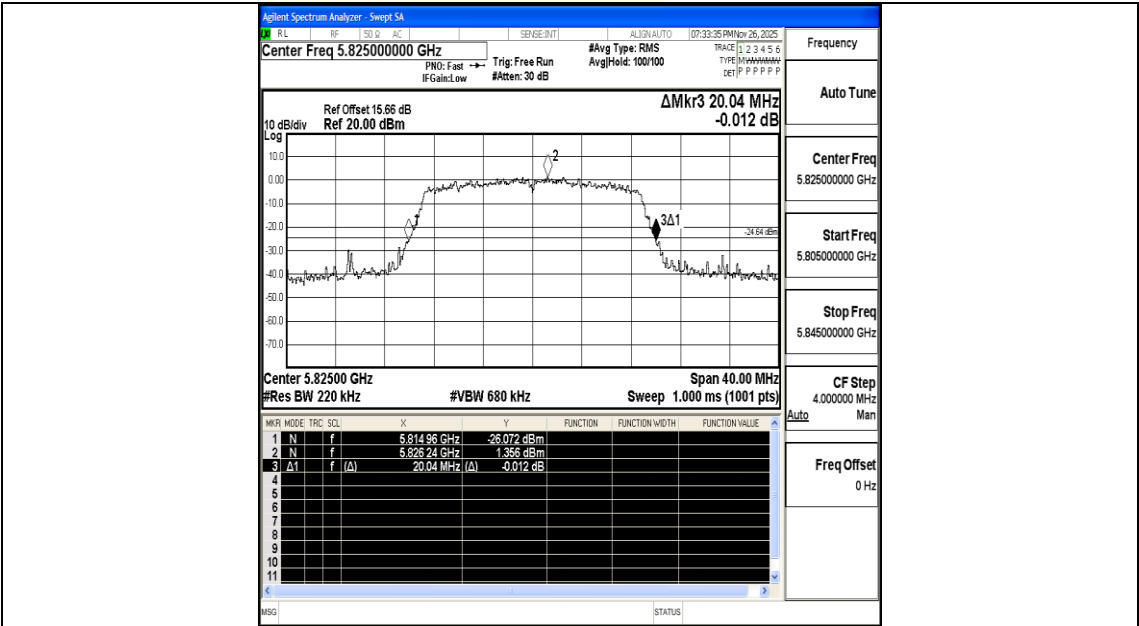
11N40SISO-Ant1-5795



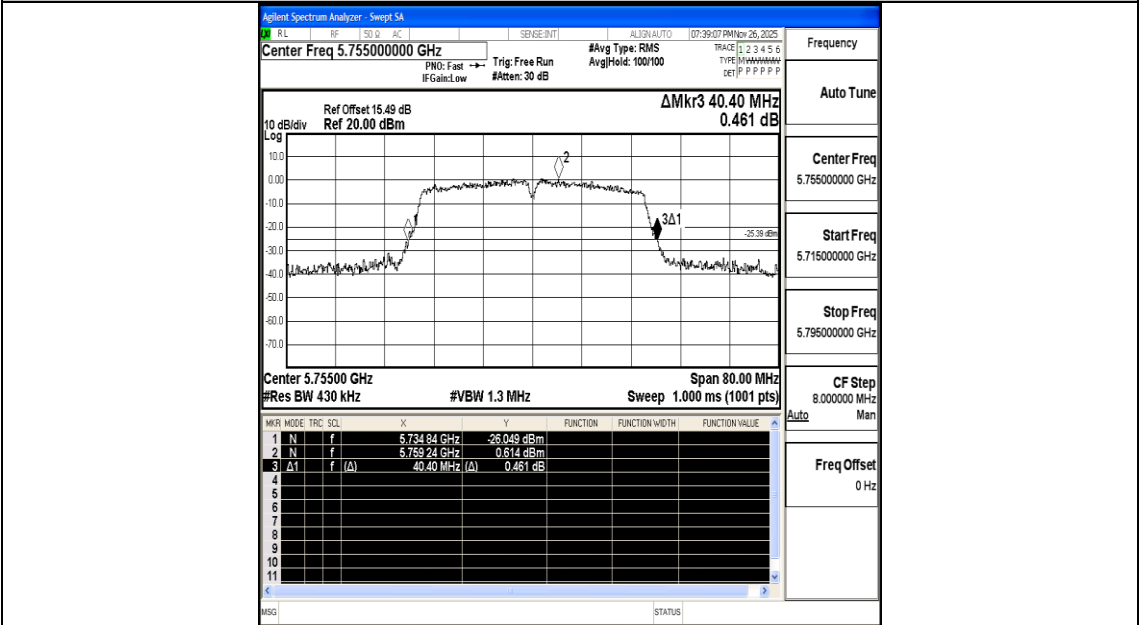
11AC20SISO-Ant1-5745



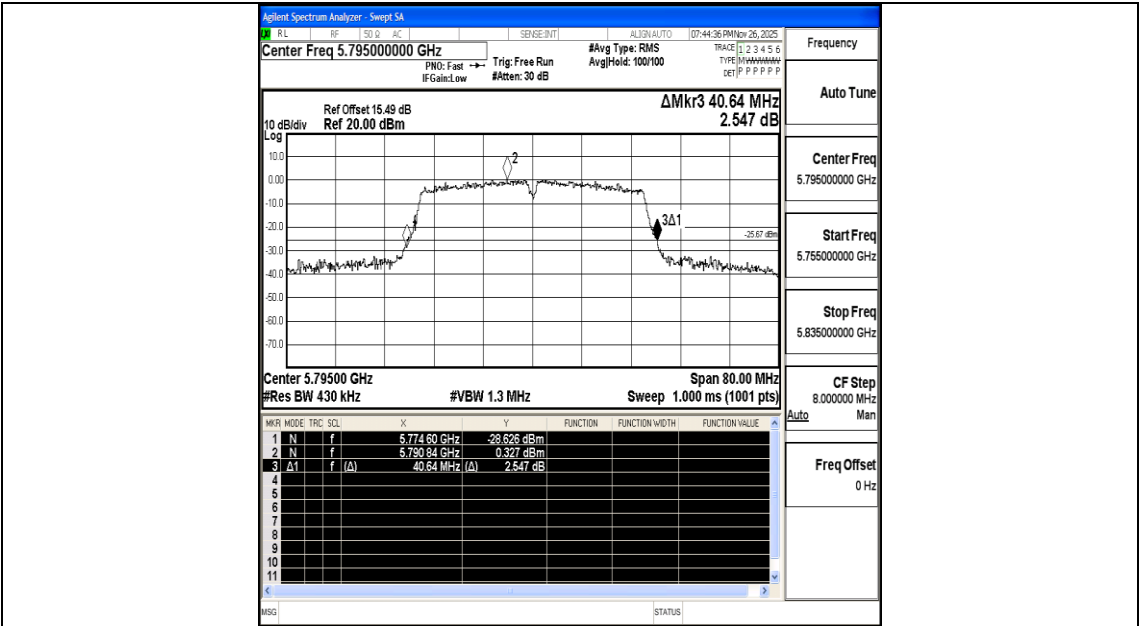
11AC20SISO-Ant1-5785



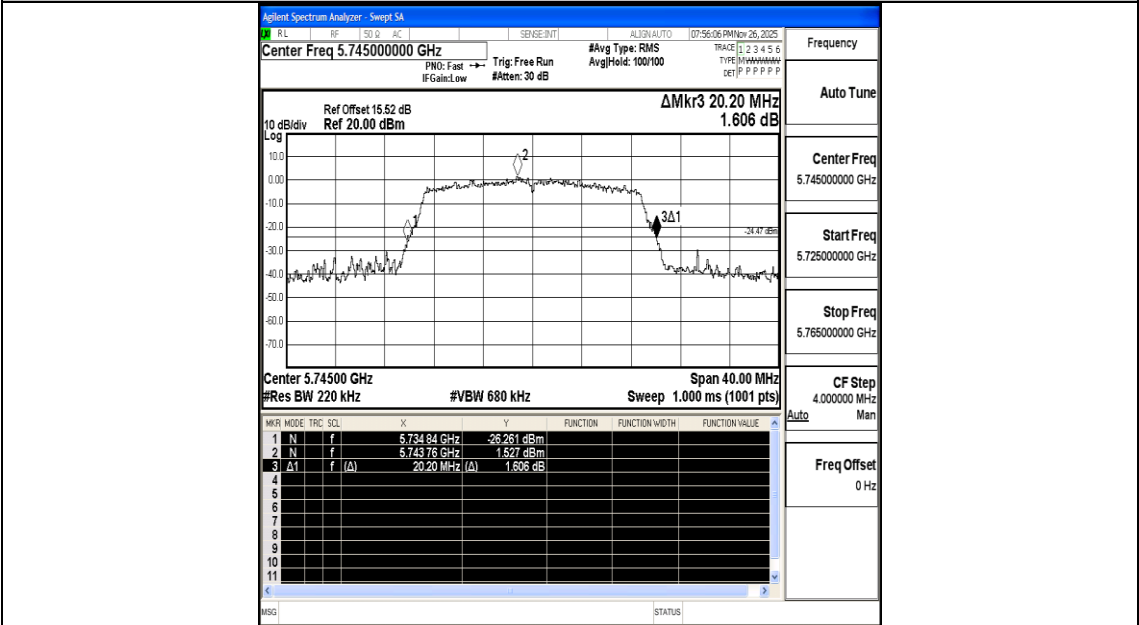
11AC20SISO-Ant1-5825



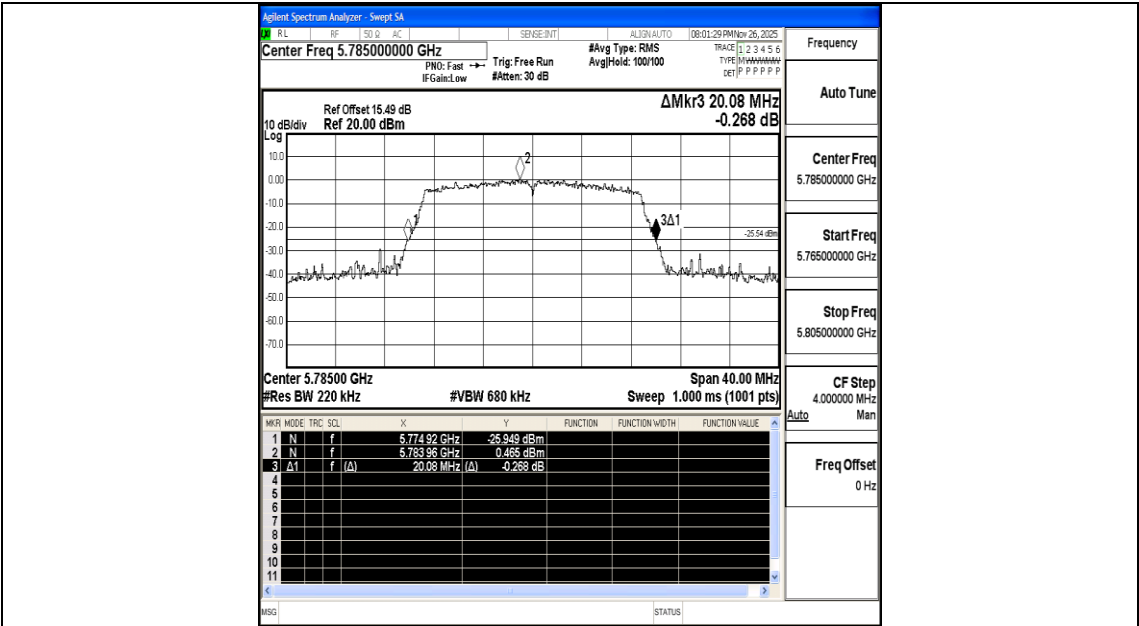
11AC40SISO-Ant1-5755



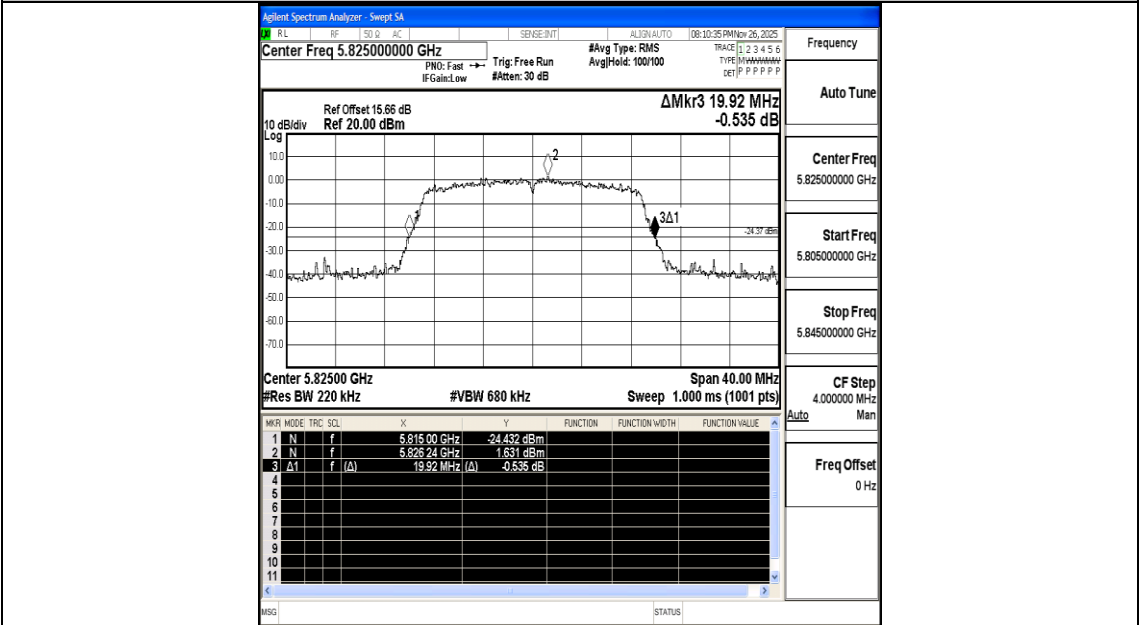
11AC40SISO-Ant1-5795



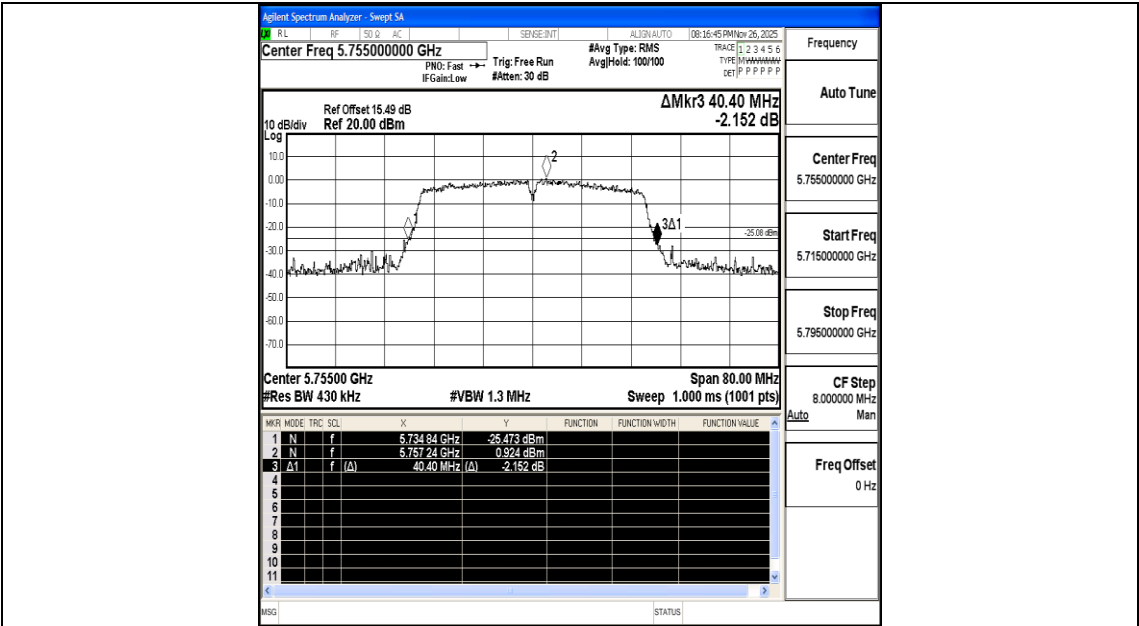
11AX20SISO-Ant1-5745



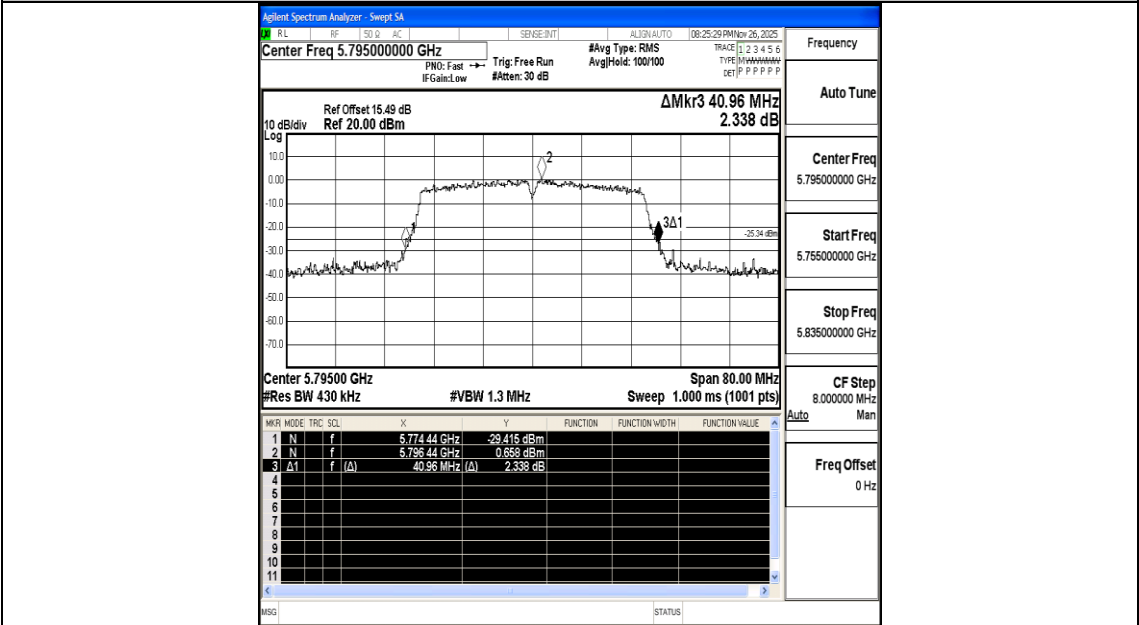
11AX20SISO-Ant1-5785



11AX20SISO-Ant1-5825



11AX40SISO-Ant1-5755



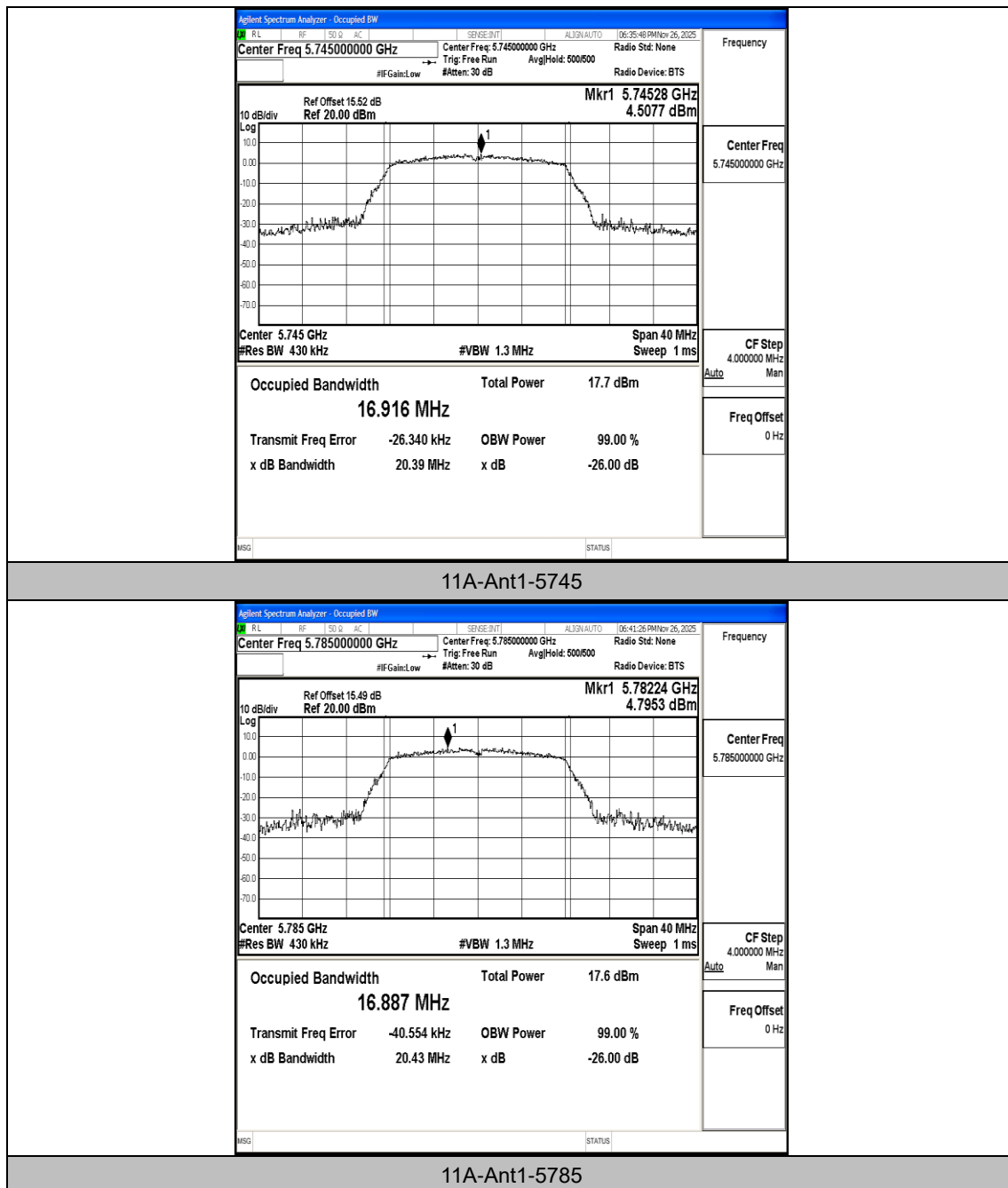
11AX40SISO-Ant1-5795

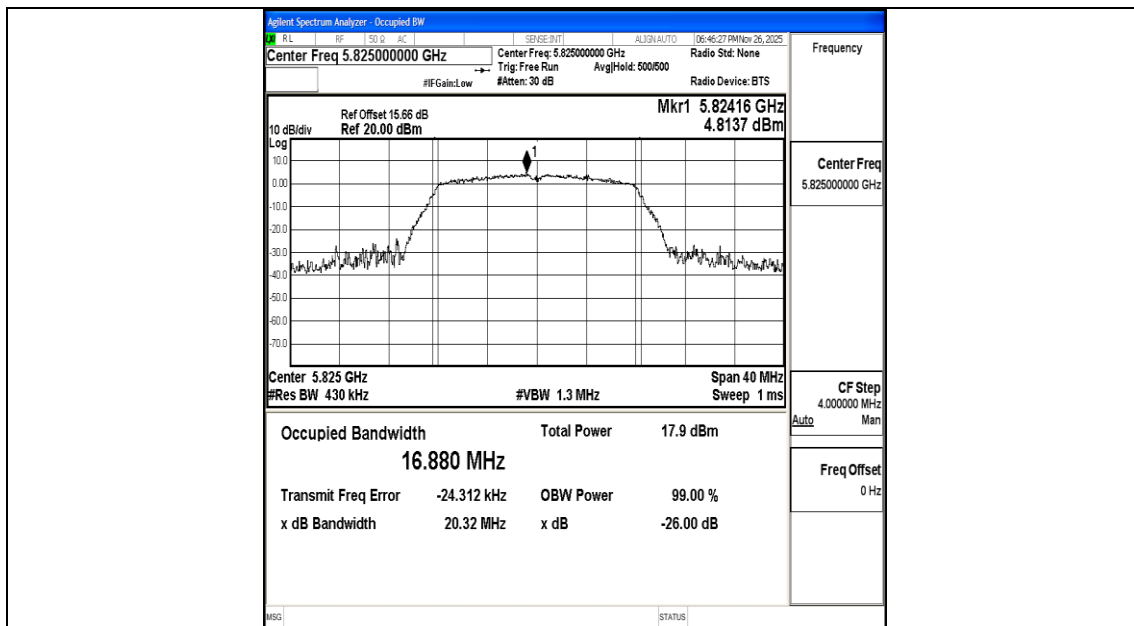
Appendix A2: Occupied channel bandwidth

Test Result

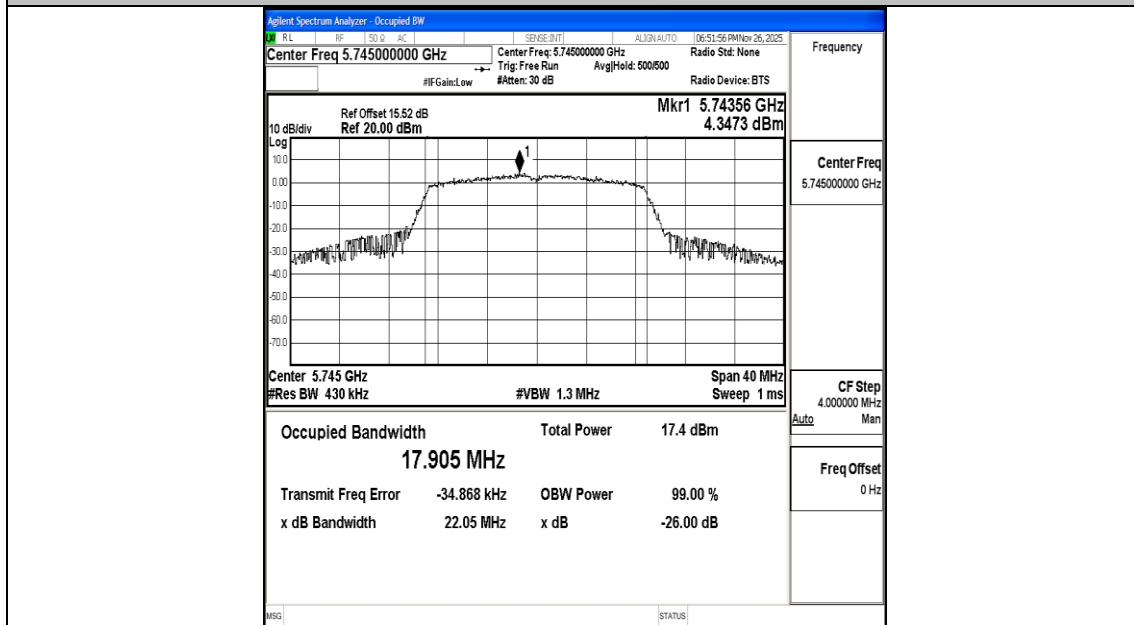
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.916	5736.5157	5753.4317	---	---
11A	Ant1	5785	16.887	5776.5160	5793.4030	---	---
11A	Ant1	5825	16.880	5816.5357	5833.4157	---	---
11N20SISO	Ant1	5745	17.905	5736.0126	5753.9176	---	---
11N20SISO	Ant1	5785	17.982	5775.9724	5793.9544	---	---
11N20SISO	Ant1	5825	17.908	5816.0505	5833.9585	---	---
11N40SISO	Ant1	5755	36.475	5736.7147	5773.1897	---	---
11N40SISO	Ant1	5795	36.497	5776.7316	5813.2286	---	---
11AC20SISO	Ant1	5745	17.883	5736.0142	5753.8972	---	---
11AC20SISO	Ant1	5785	17.876	5776.0177	5793.8937	---	---
11AC20SISO	Ant1	5825	17.864	5816.0492	5833.9132	---	---
11AC40SISO	Ant1	5755	36.313	5736.7980	5773.1110	---	---
11AC40SISO	Ant1	5795	36.322	5776.8169	5813.1389	---	---
11AX20SISO	Ant1	5745	17.864	5736.0723	5753.9363	---	---
11AX20SISO	Ant1	5785	17.845	5776.0230	5793.8680	---	---
11AX20SISO	Ant1	5825	17.820	5816.0678	5833.8878	---	---
11AX40SISO	Ant1	5755	36.400	5736.7723	5773.1723	---	---
11AX40SISO	Ant1	5795	36.335	5776.8471	5813.1821	---	---

Test Graphs

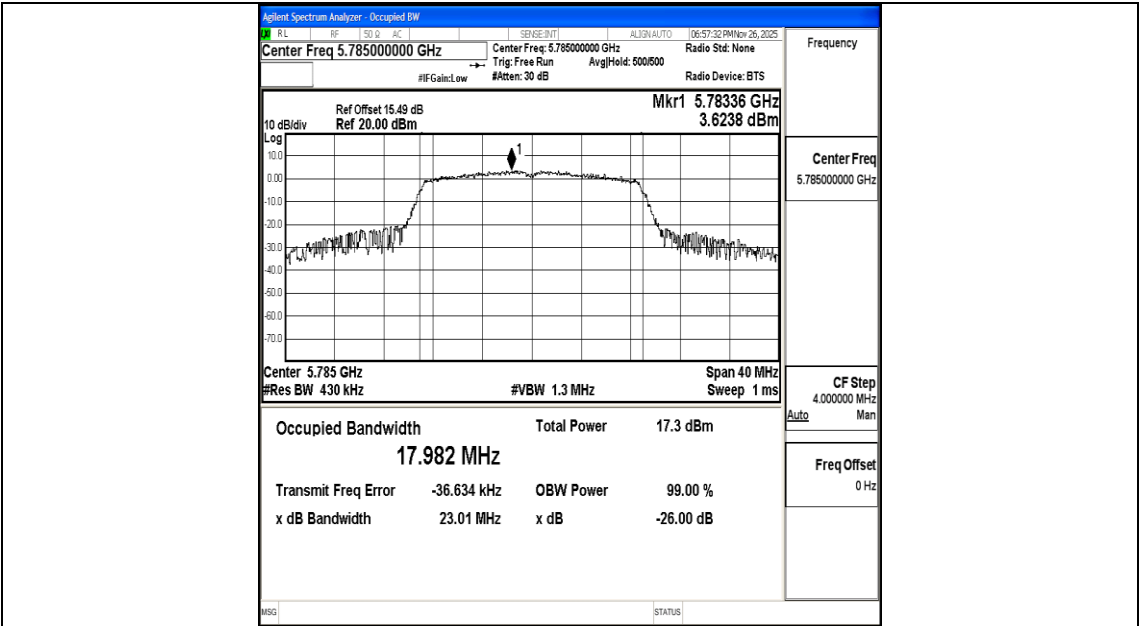




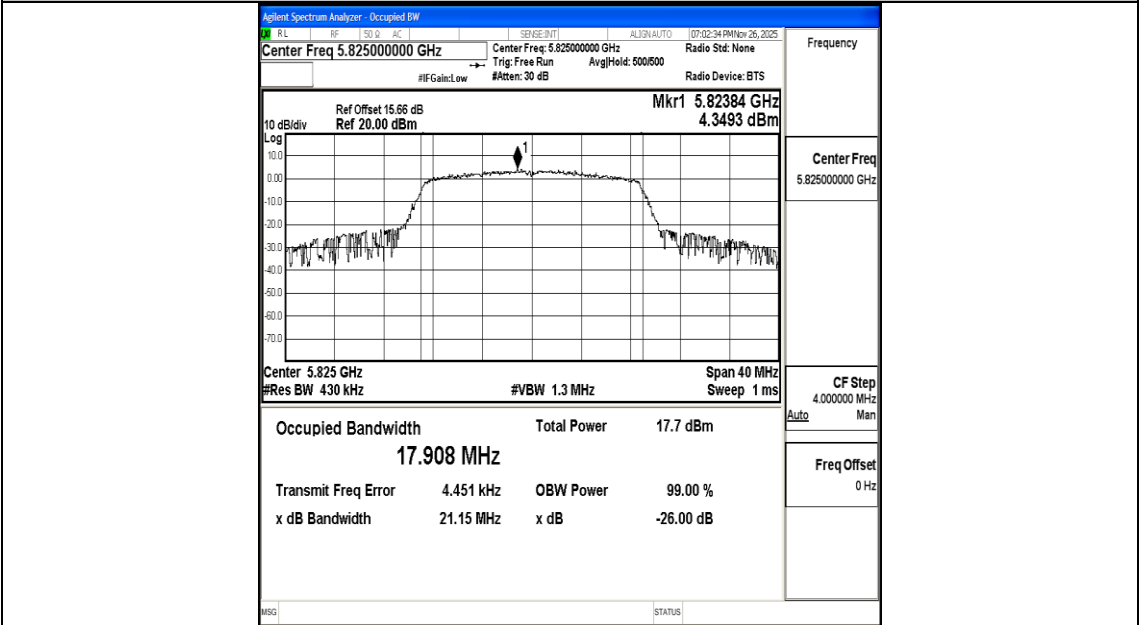
11A-Ant1-5825



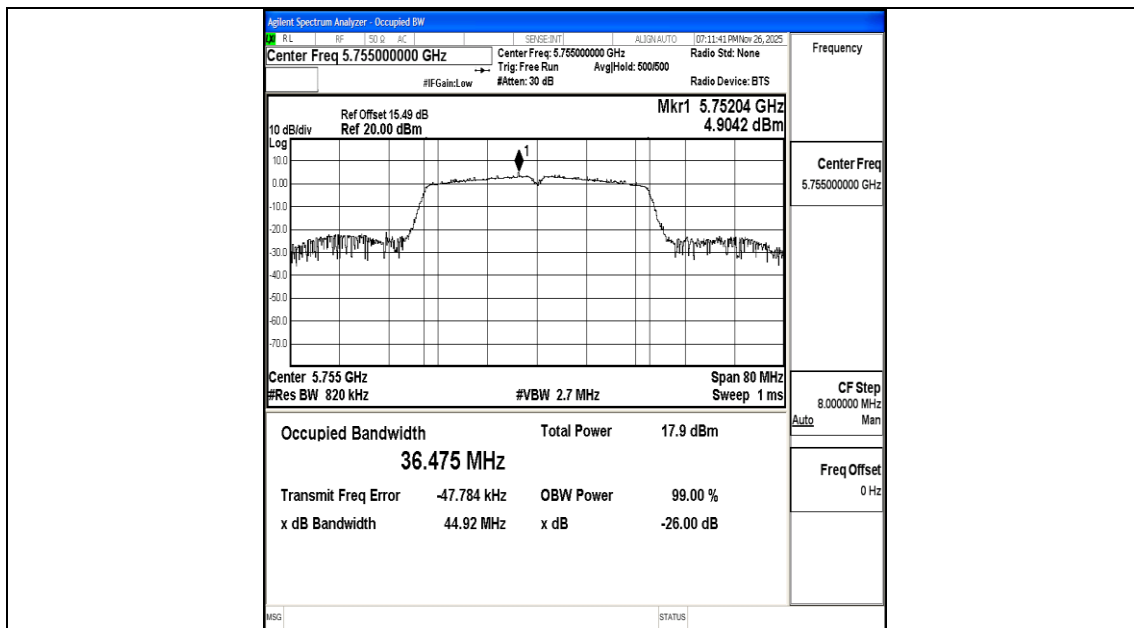
11N20SISO-Ant1-5745



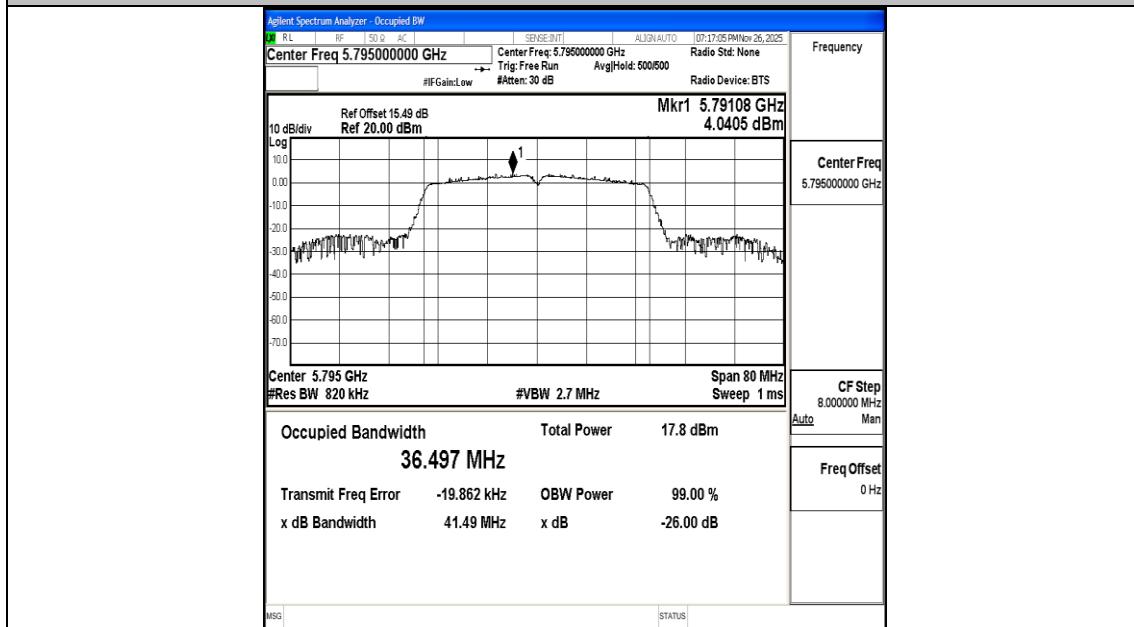
11N20SISO-Ant1-5785



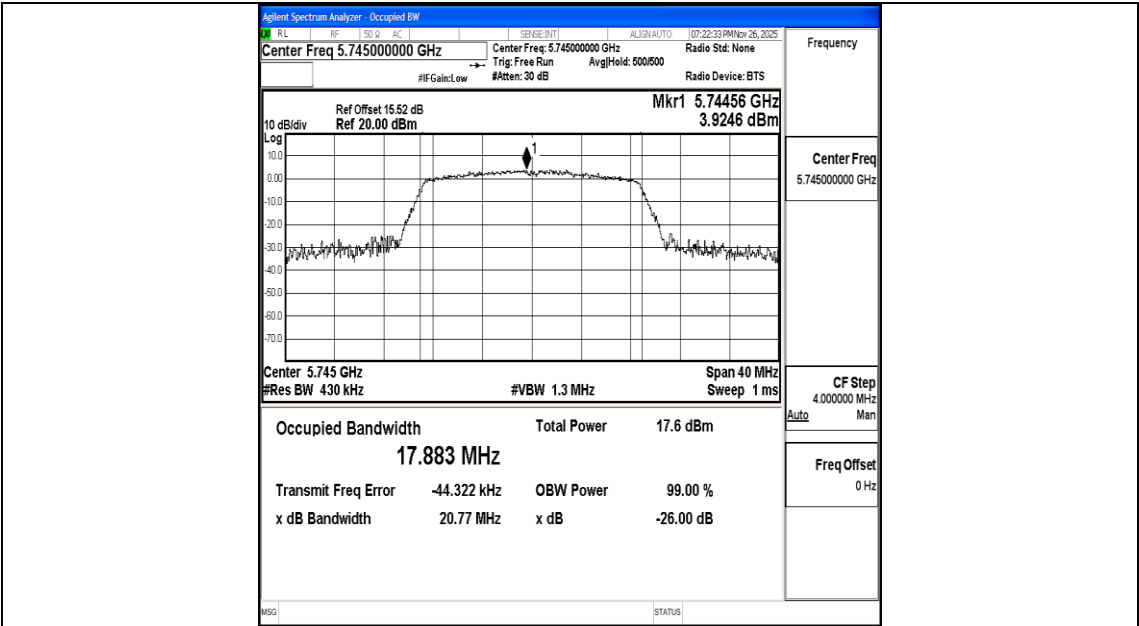
11N20SISO-Ant1-5825



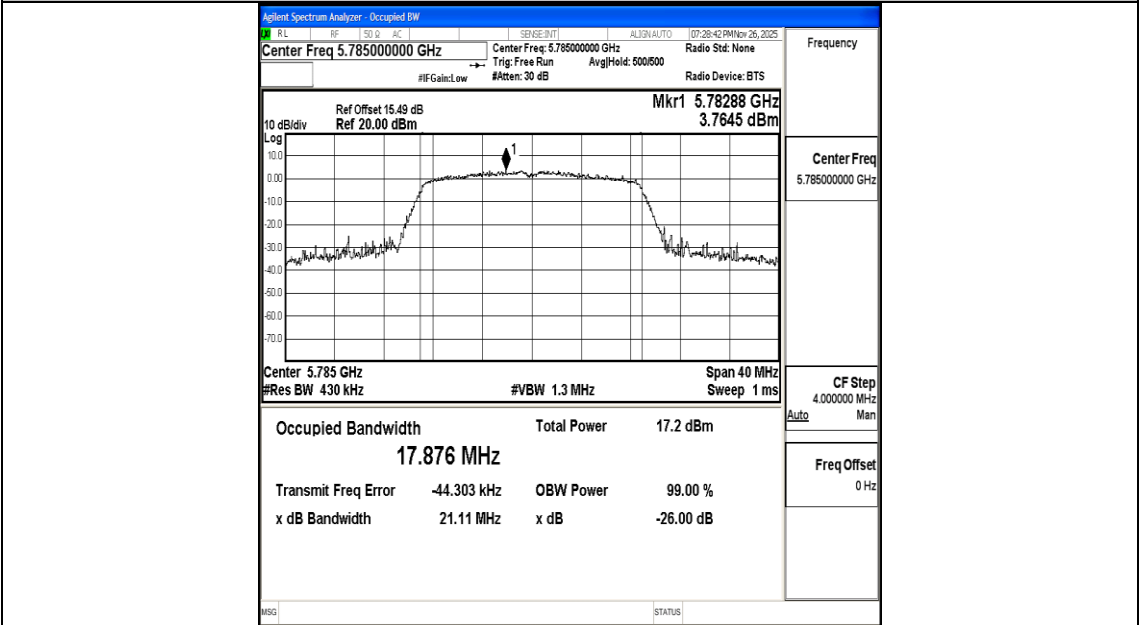
11N40SISO-Ant1-5755



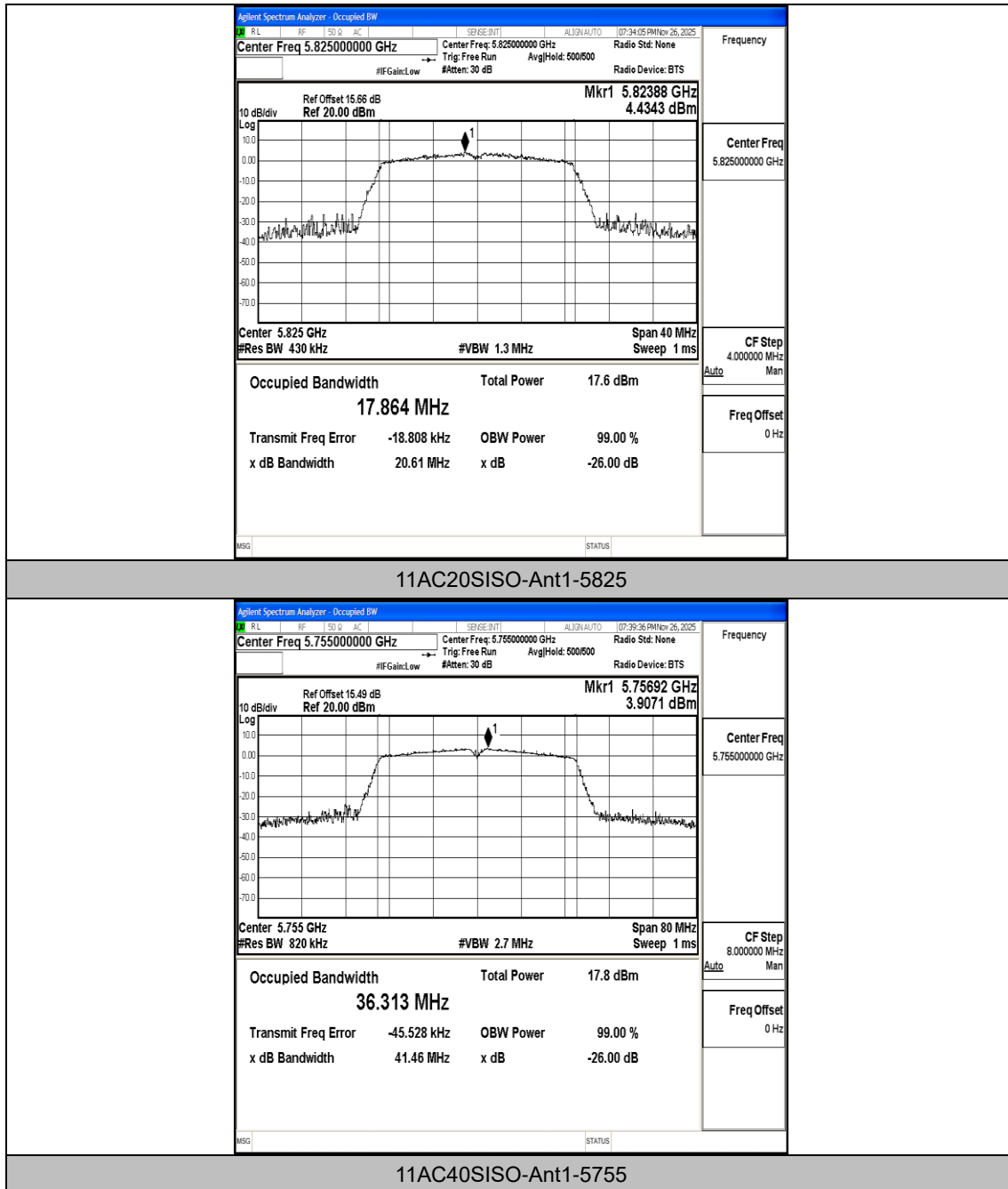
11N40SISO-Ant1-5795

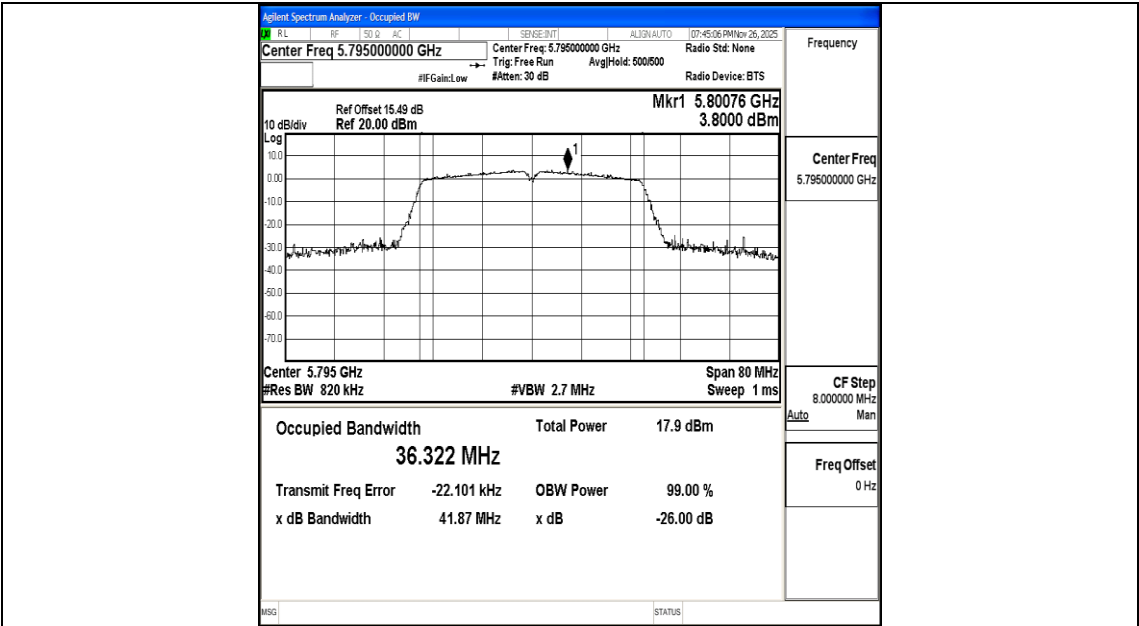


11AC20SISO-Ant1-5745

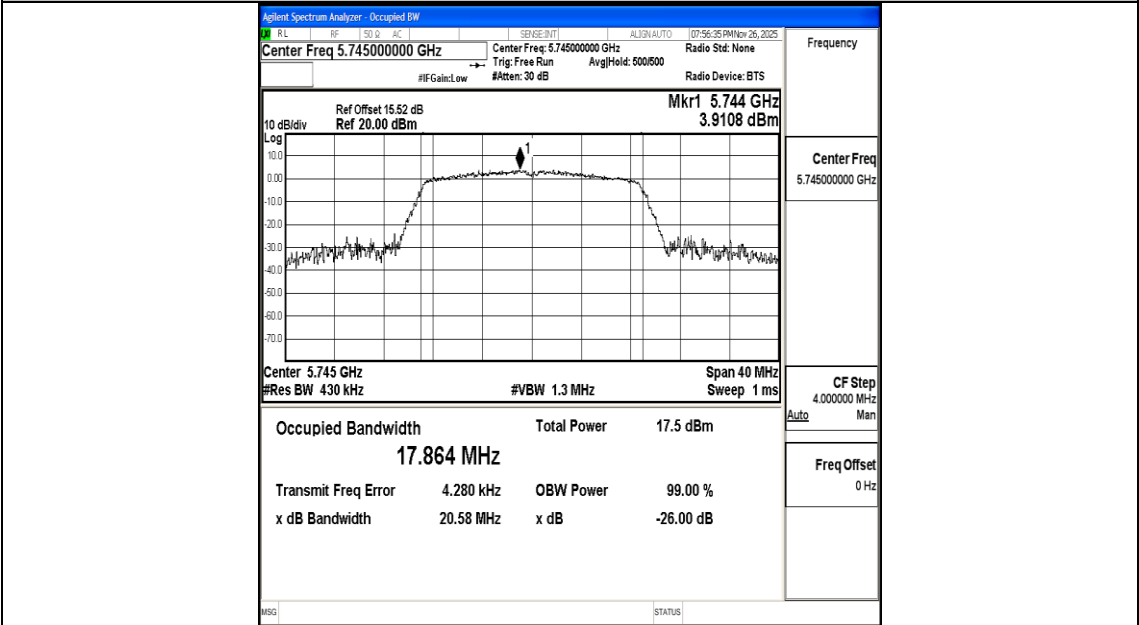


11AC20SISO-Ant1-5785

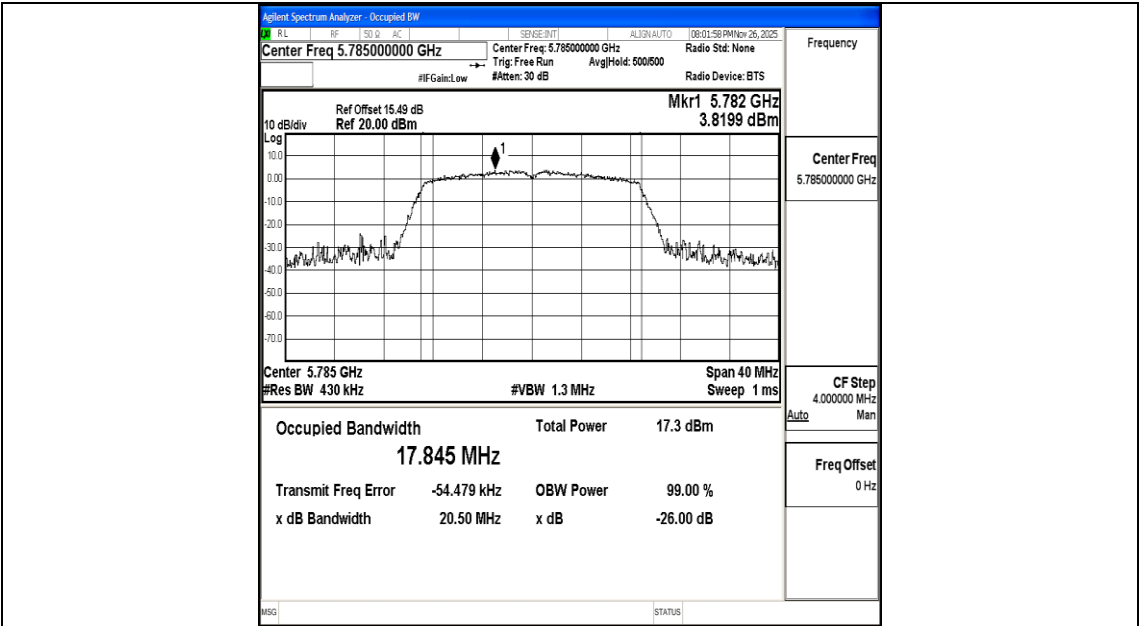




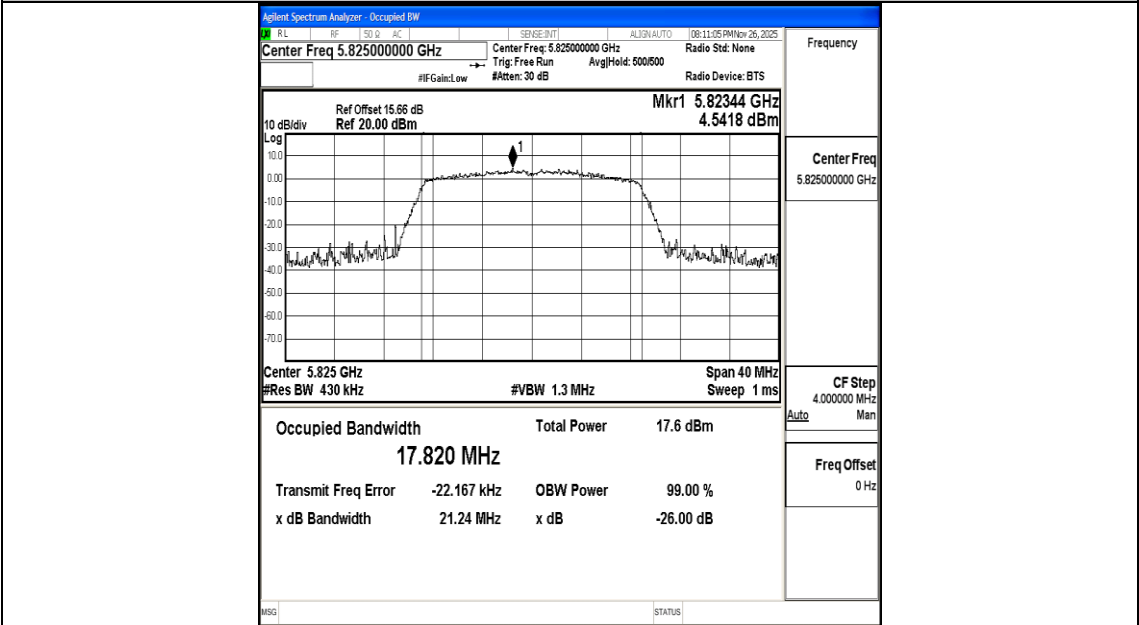
11AC40SISO-Ant1-5795



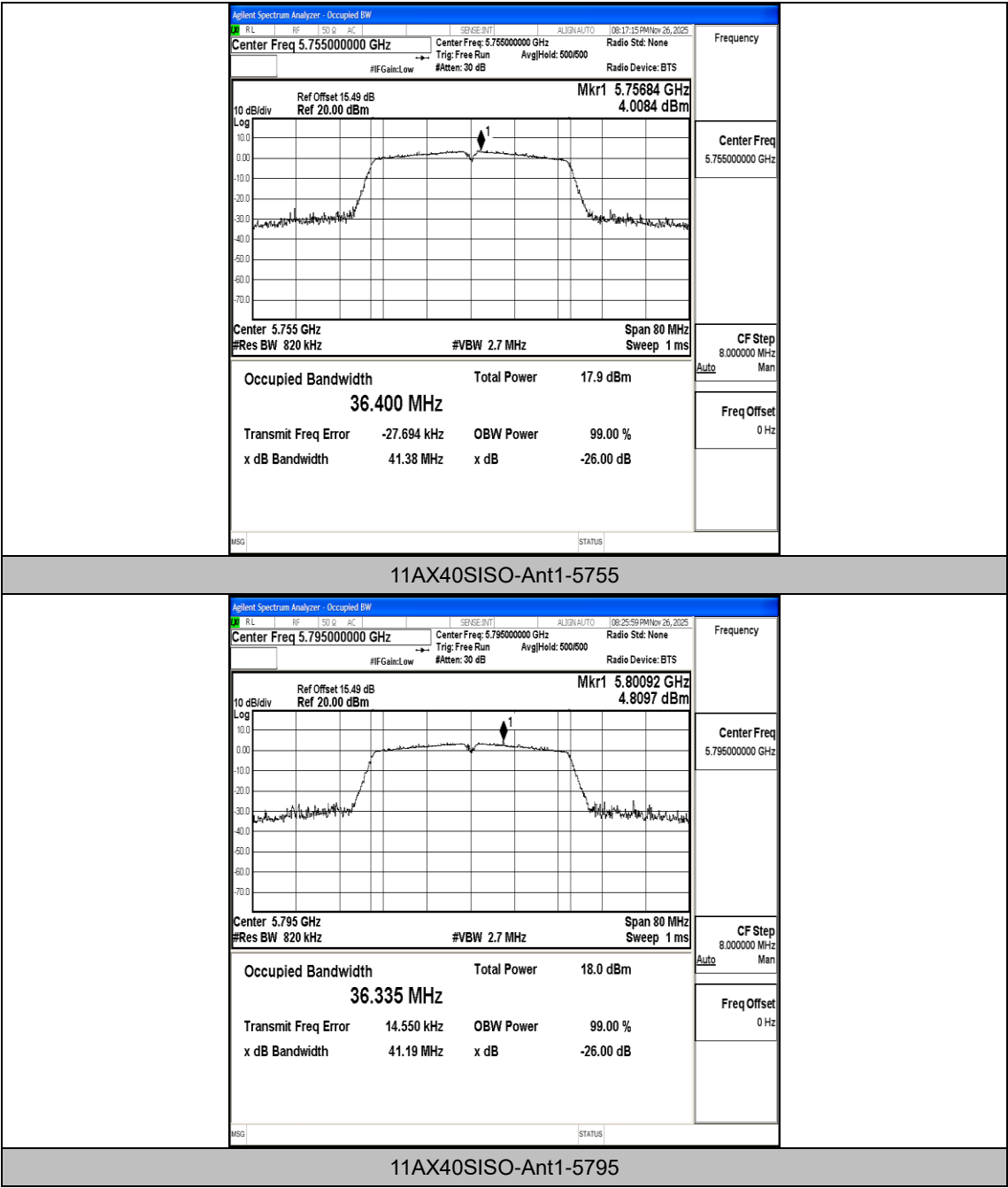
11AX20SISO-Ant1-5745



11AX20SISO-Ant1-5785



11AX20SISO-Ant1-5825

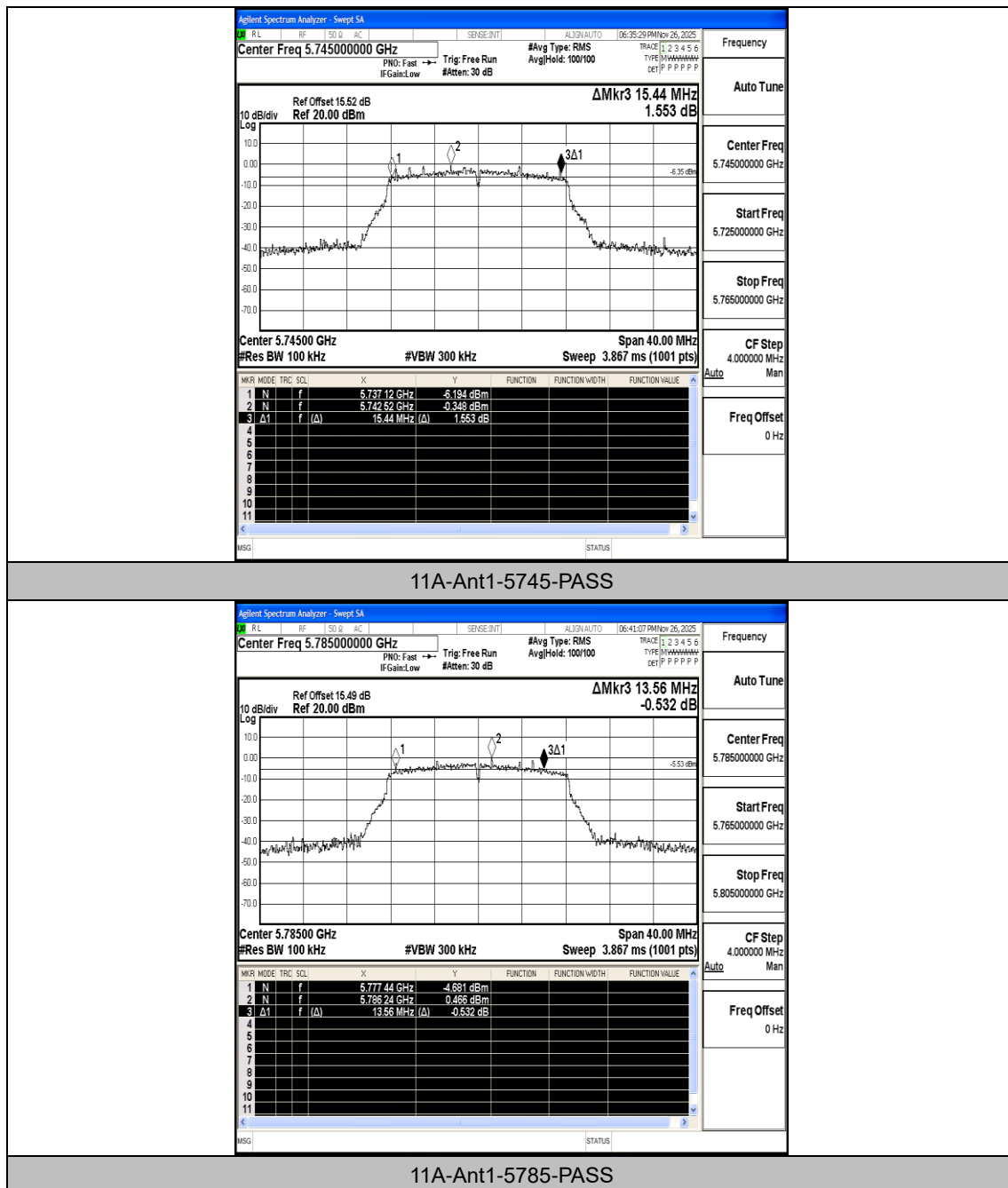


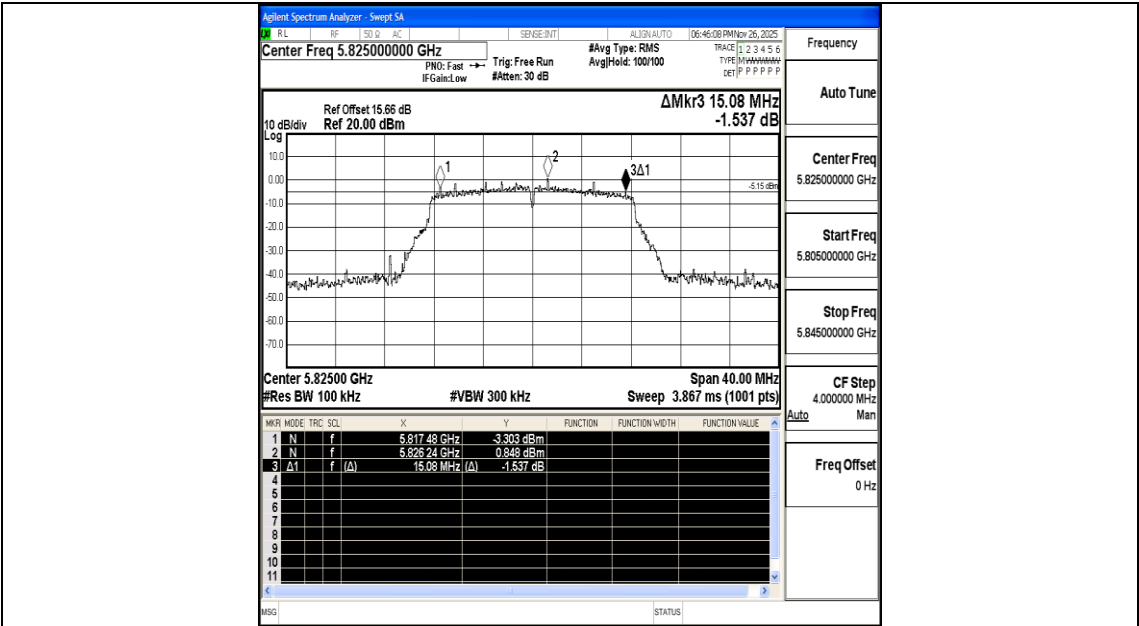
Appendix A3: Min emission bandwidth

Test Result B4

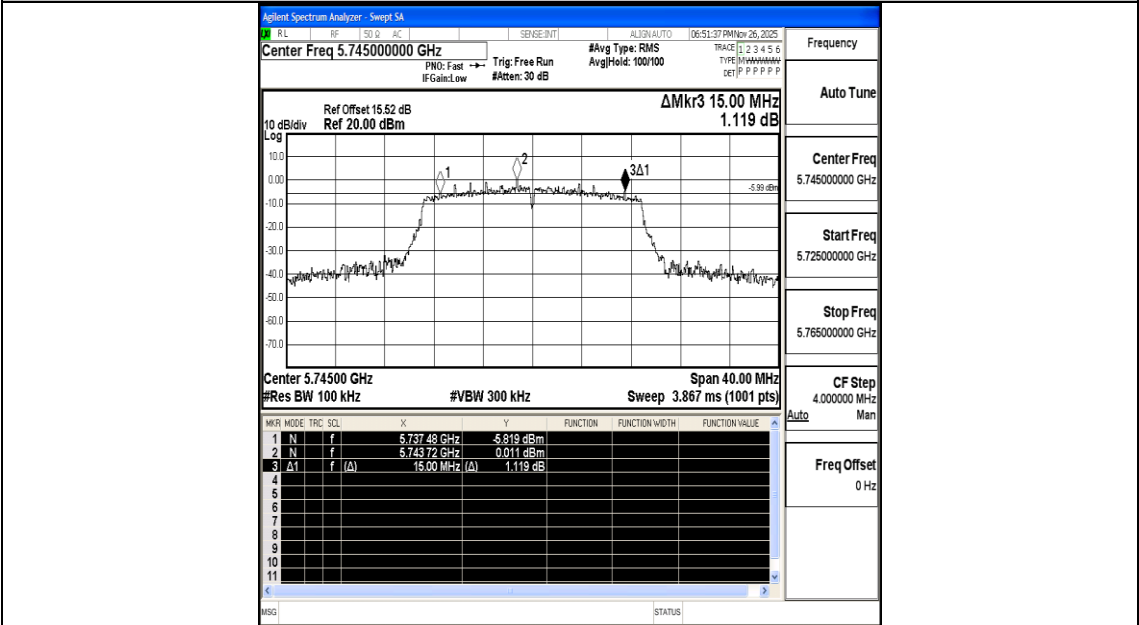
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.440	5737.120	5752.560	0.5	PASS
11A	Ant1	5785	13.560	5777.440	5791.000	0.5	PASS
11A	Ant1	5825	15.080	5817.480	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.000	5737.480	5752.480	0.5	PASS
11N20SISO	Ant1	5785	16.960	5776.480	5793.440	0.5	PASS
11N20SISO	Ant1	5825	13.000	5819.520	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
11N40SISO	Ant1	5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	13.840	5738.640	5752.480	0.5	PASS
11AC20SISO	Ant1	5785	10.680	5779.360	5790.040	0.5	PASS
11AC20SISO	Ant1	5825	13.840	5817.480	5831.320	0.5	PASS
11AC40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
11AC40SISO	Ant1	5795	35.040	5777.480	5812.520	0.5	PASS
11AX20SISO	Ant1	5745	13.840	5737.480	5751.320	0.5	PASS
11AX20SISO	Ant1	5785	15.120	5777.440	5792.560	0.5	PASS
11AX20SISO	Ant1	5825	14.120	5818.360	5832.480	0.5	PASS
11AX40SISO	Ant1	5755	32.640	5737.400	5770.040	0.5	PASS
11AX40SISO	Ant1	5795	33.840	5777.480	5811.320	0.5	PASS

Test Graphs B4

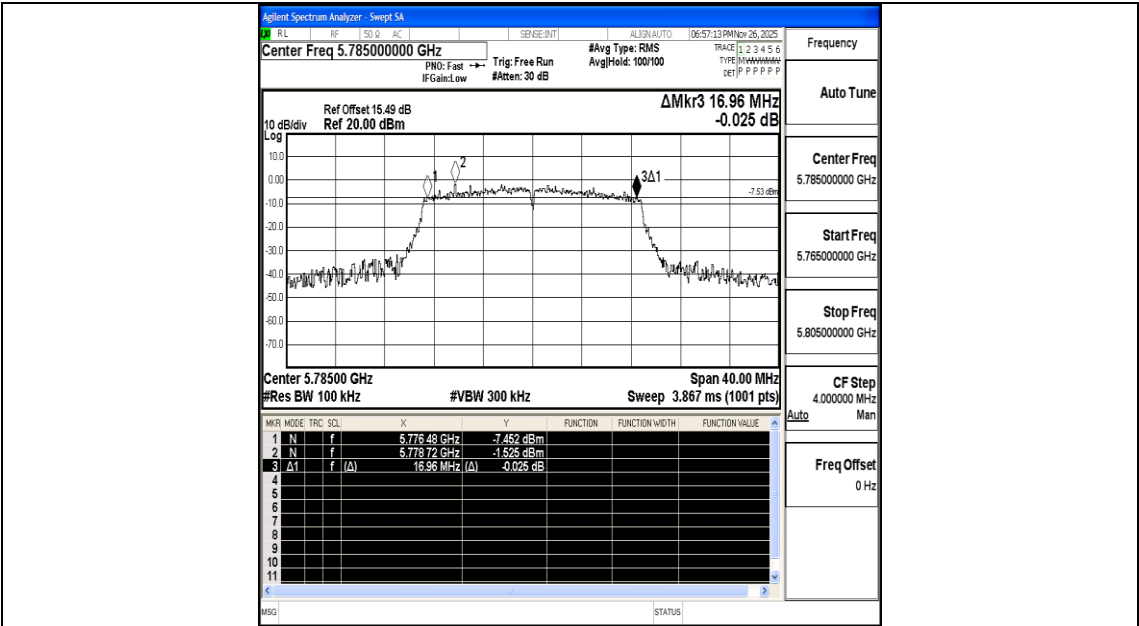




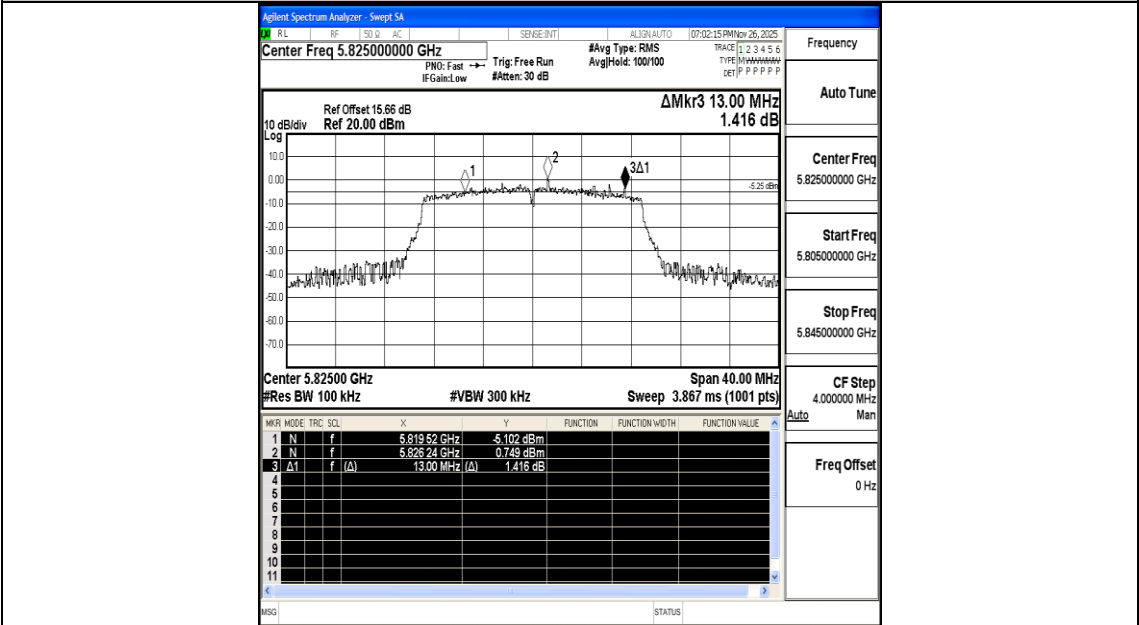
11A-Ant1-5825-PASS



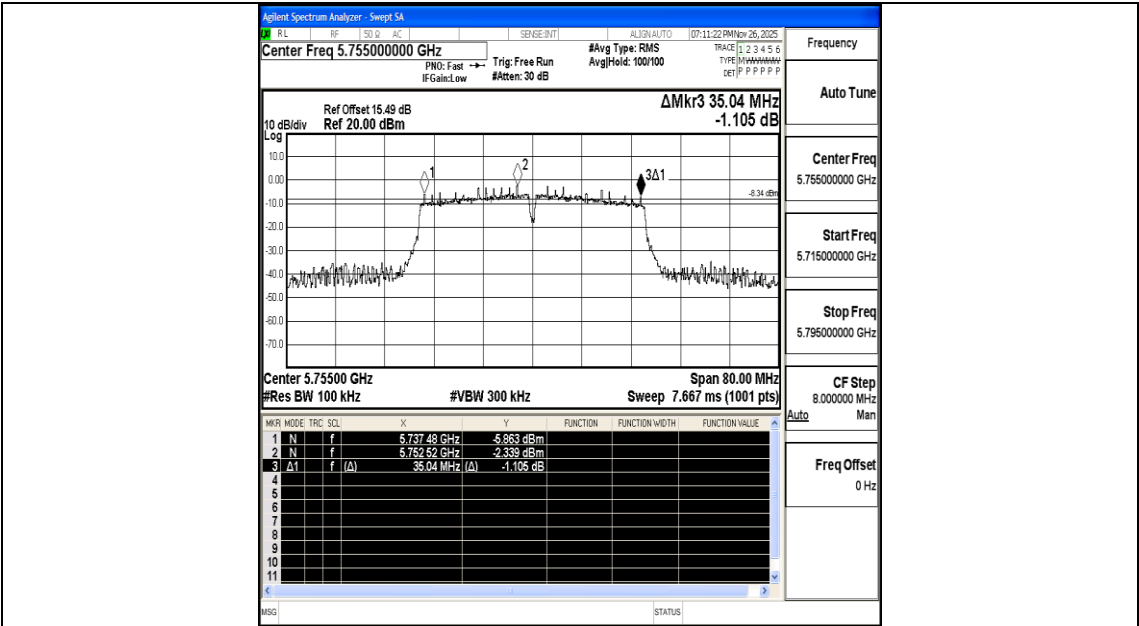
11N20SISO-Ant1-5745-PASS



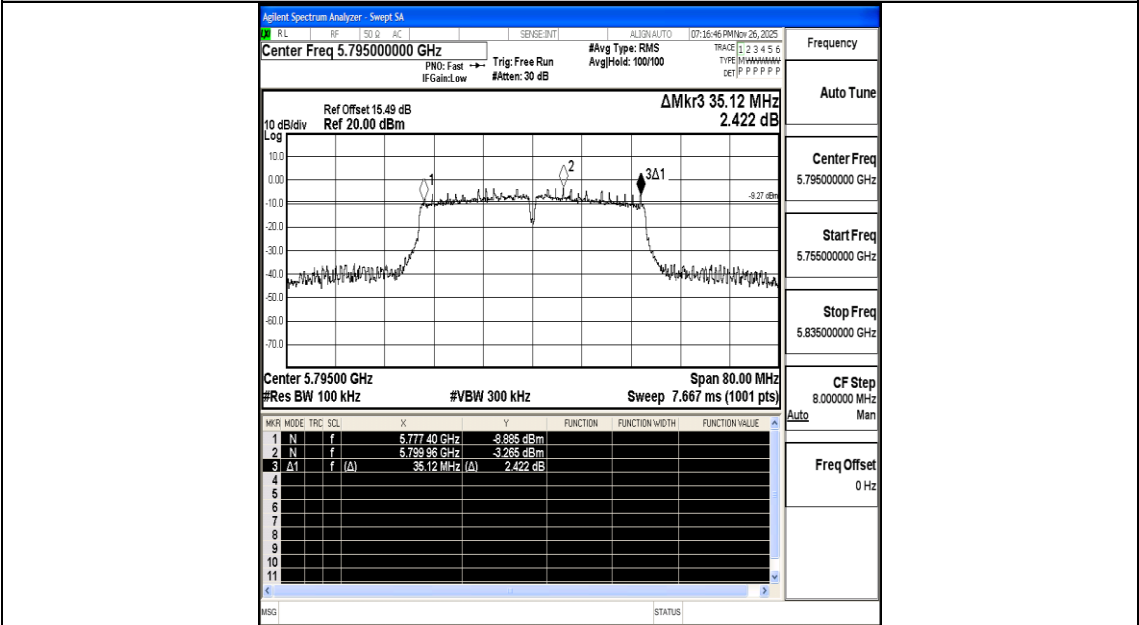
11N20SISO-Ant1-5785-PASS



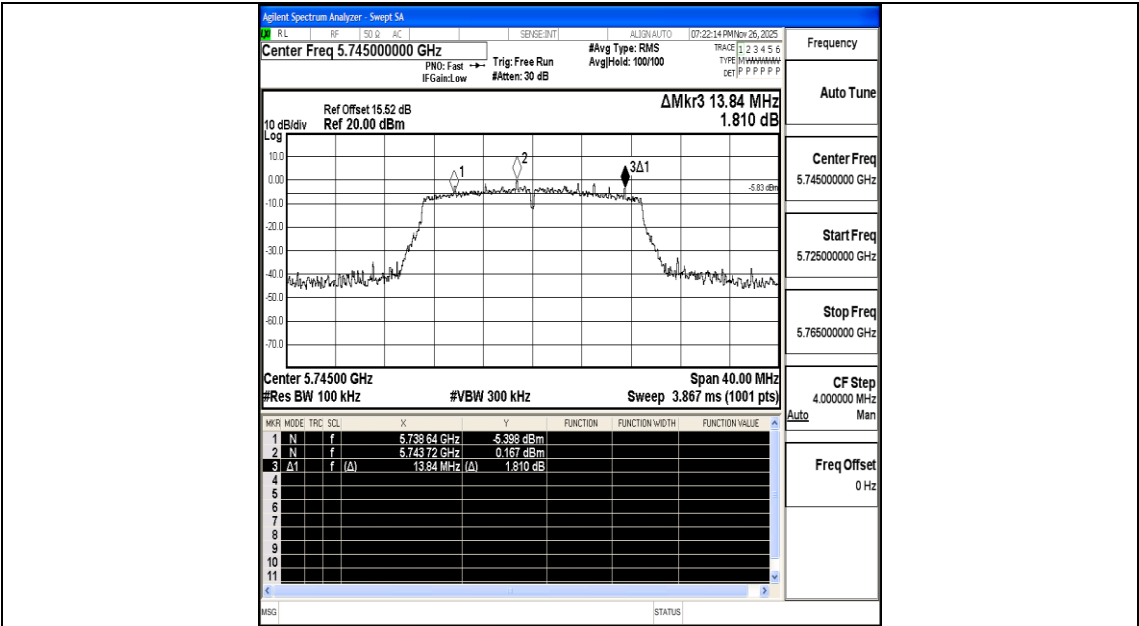
11N20SISO-Ant1-5825-PASS



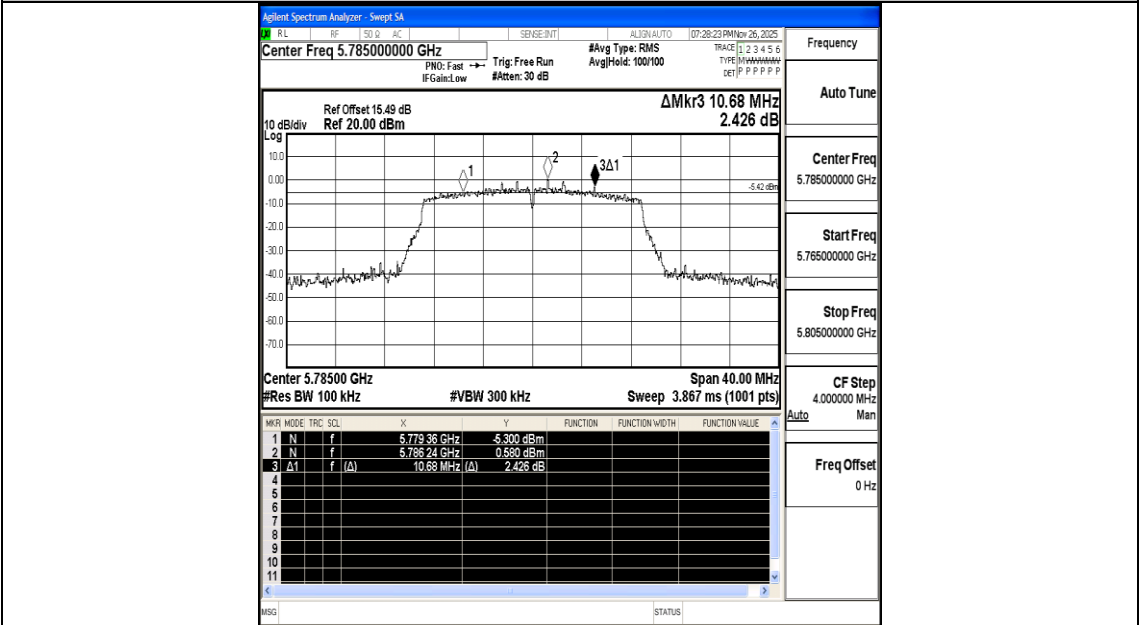
11N40SISO-Ant1-5755-PASS



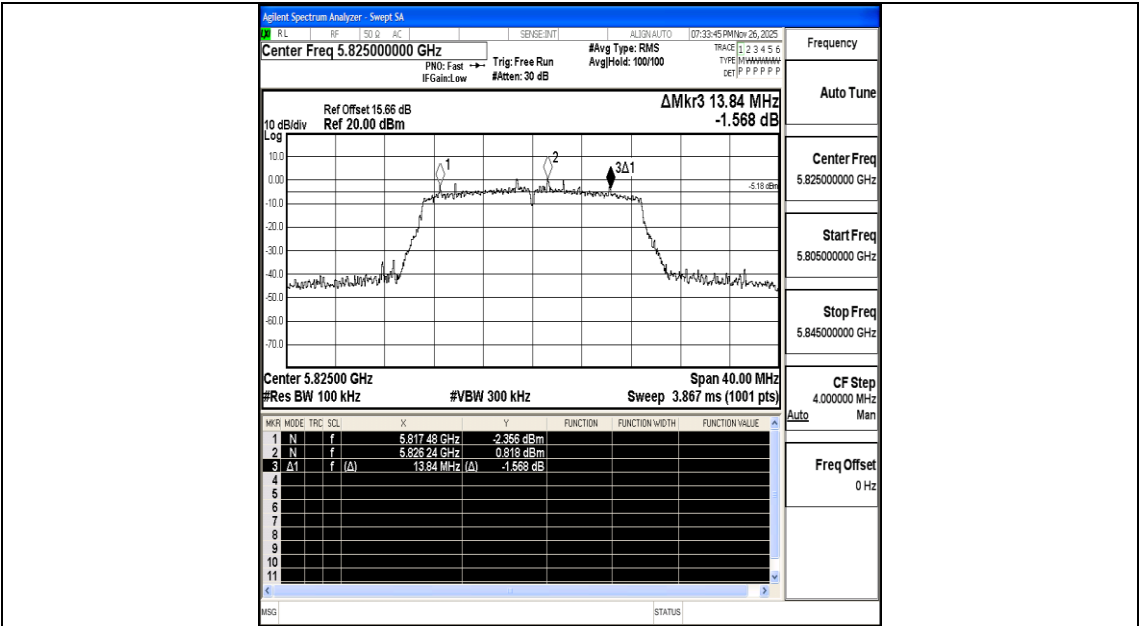
11N40SISO-Ant1-5795-PASS



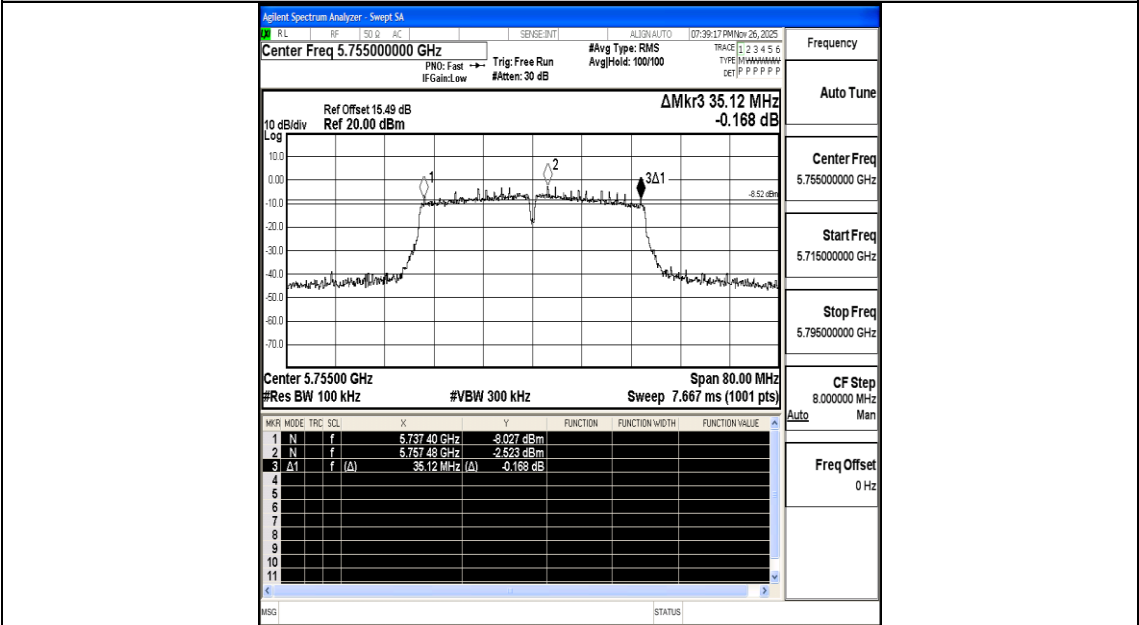
11AC20SISO-Ant1-5745-PASS



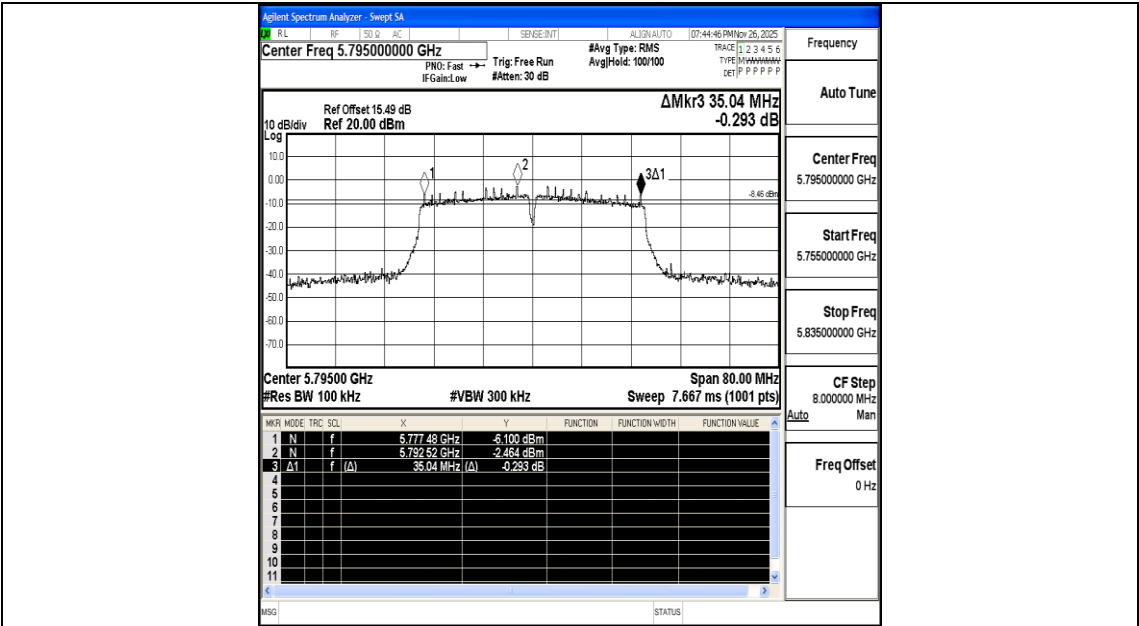
11AC20SISO-Ant1-5785-PASS



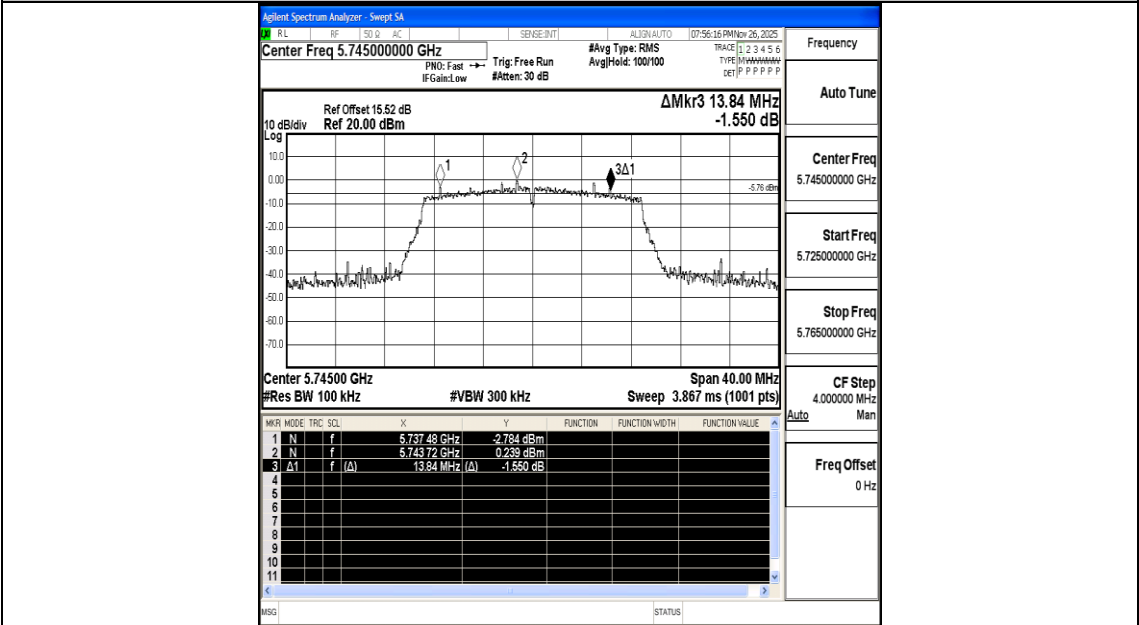
11AC20SISO-Ant1-5825-PASS



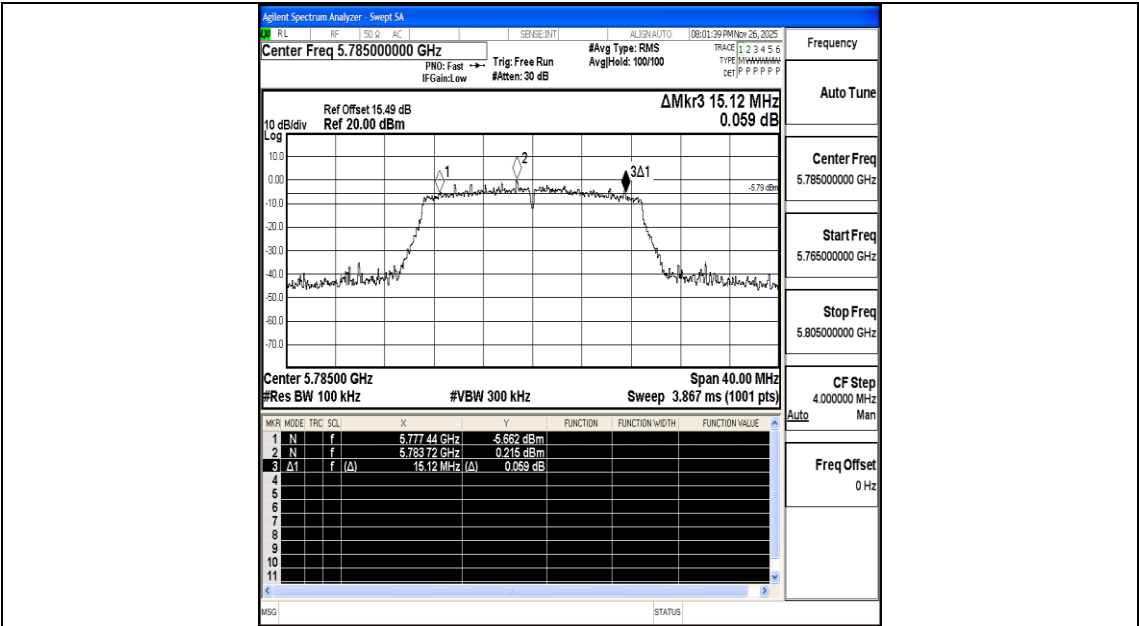
11AC40SISO-Ant1-5755-PASS



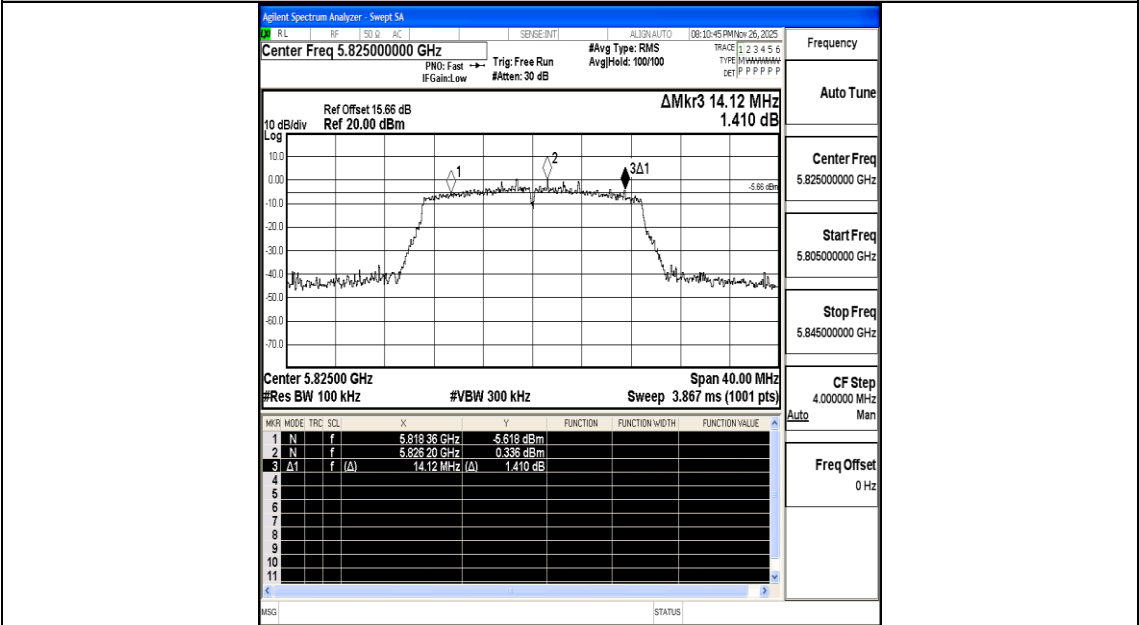
11AC40SISO-Ant1-5795-PASS



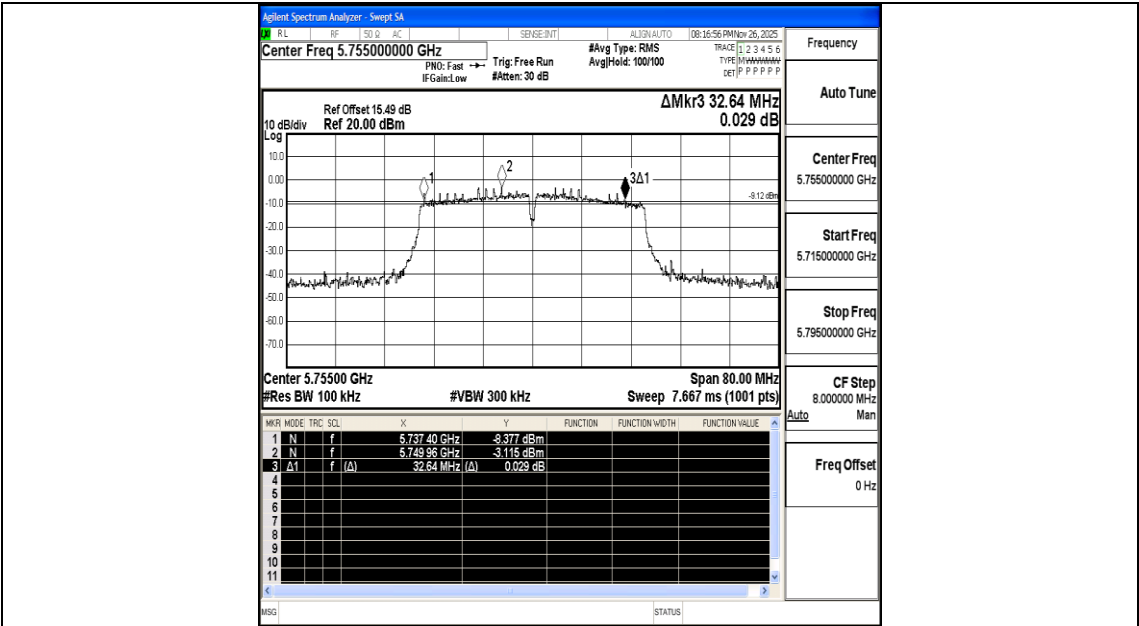
11AX20SISO-Ant1-5745-PASS



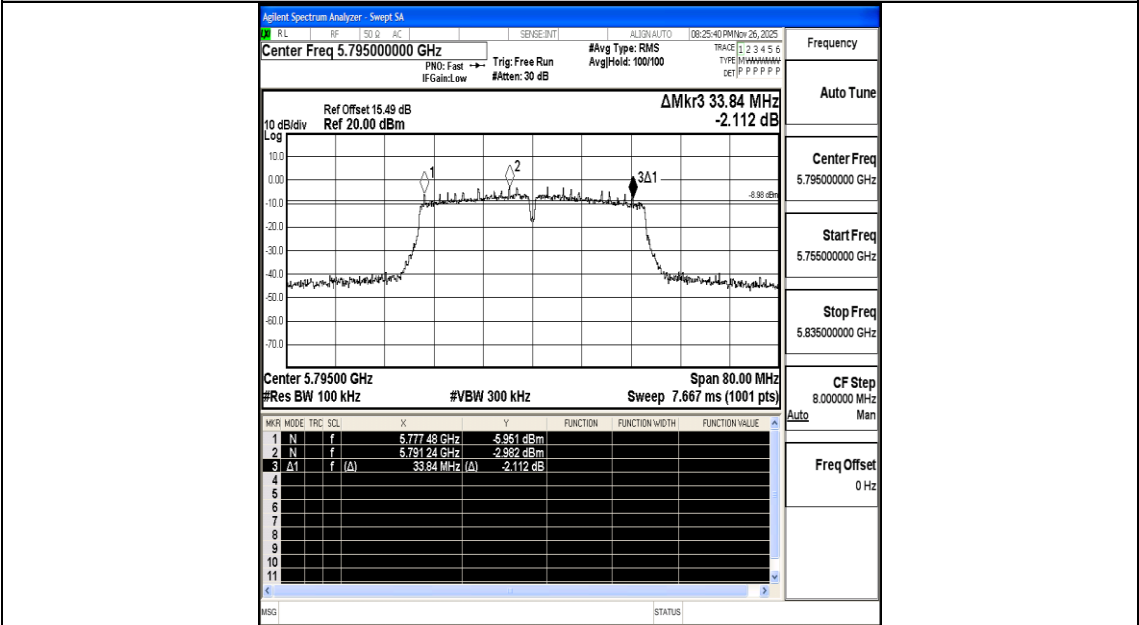
11AX20SISO-Ant1-5785-PASS



11AX20SISO-Ant1-5825-PASS



11AX40SISO-Ant1-5755-PASS



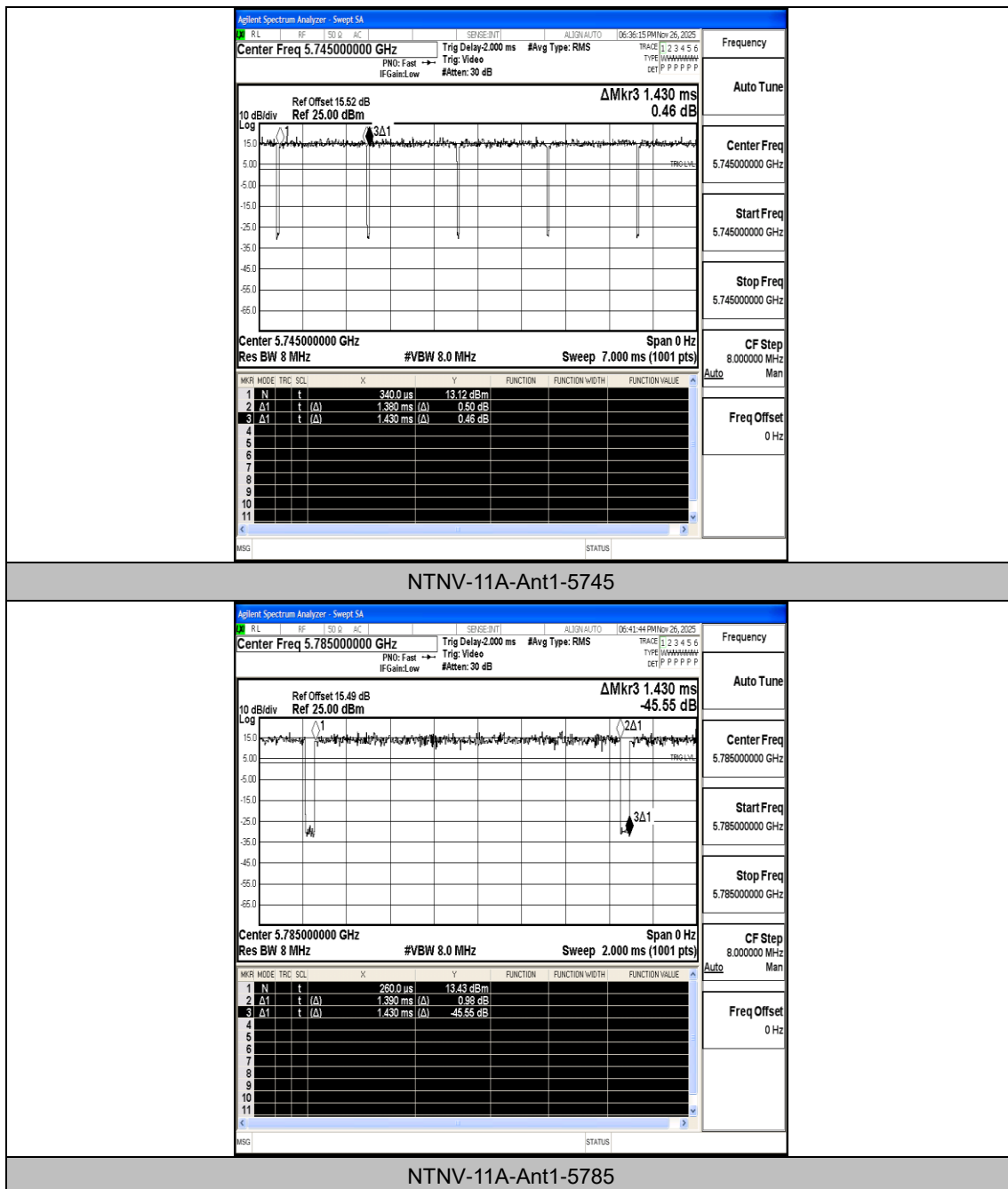
11AX40SISO-Ant1-5795-PASS

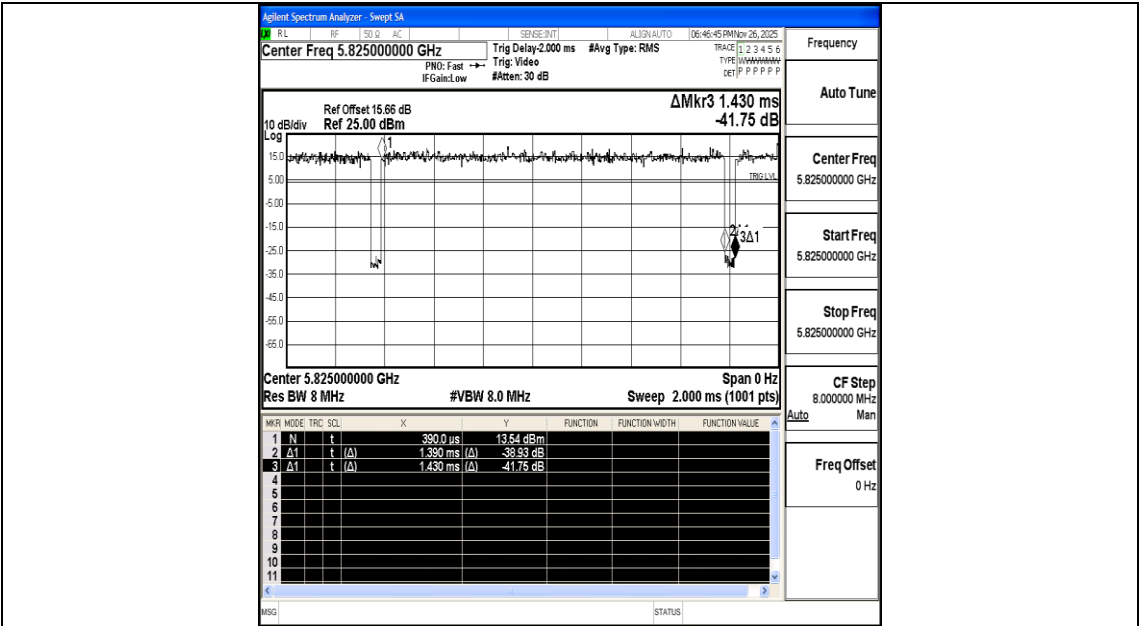
Appendix B: Duty Cycle

Test Result

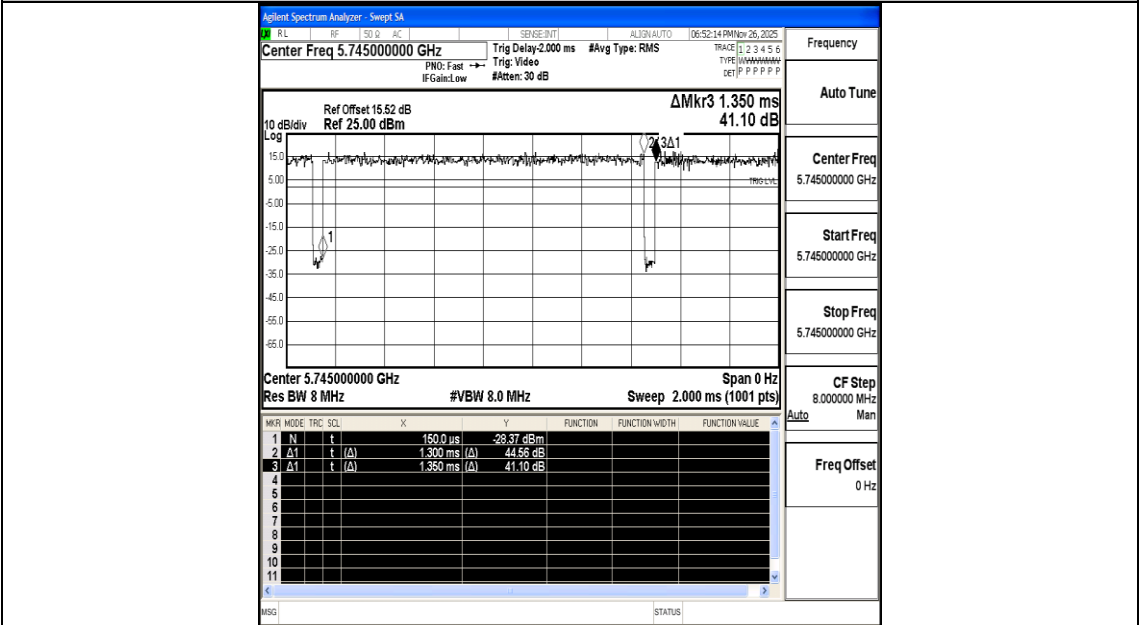
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc Factor [%]	1/T
11A	Ant1	5745	1.38	1.43	96.50	0.15	0.72
11A	Ant1	5785	1.39	1.43	97.20	0.12	0.72
11A	Ant1	5825	1.39	1.43	97.20	0.12	0.72
11N20SISO	Ant1	5745	1.30	1.35	96.30	0.16	0.77
11N20SISO	Ant1	5785	1.30	1.34	97.01	0.13	0.77
11N20SISO	Ant1	5825	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
11N40SISO	Ant1	5795	0.65	0.69	94.20	0.26	1.54
11AC20SISO	Ant1	5745	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5785	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5825	1.31	1.35	97.04	0.13	0.76
11AC40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
11AC40SISO	Ant1	5795	0.65	0.70	92.86	0.32	1.54
11AX20SISO	Ant1	5745	1.31	1.36	96.32	0.16	0.76
11AX20SISO	Ant1	5785	1.30	1.35	96.30	0.16	0.77
11AX20SISO	Ant1	5825	1.31	1.36	96.32	0.16	0.76
11AX40SISO	Ant1	5755	0.66	0.70	94.29	0.26	1.52
11AX40SISO	Ant1	5795	0.65	0.70	92.86	0.32	1.54

Test Graphs

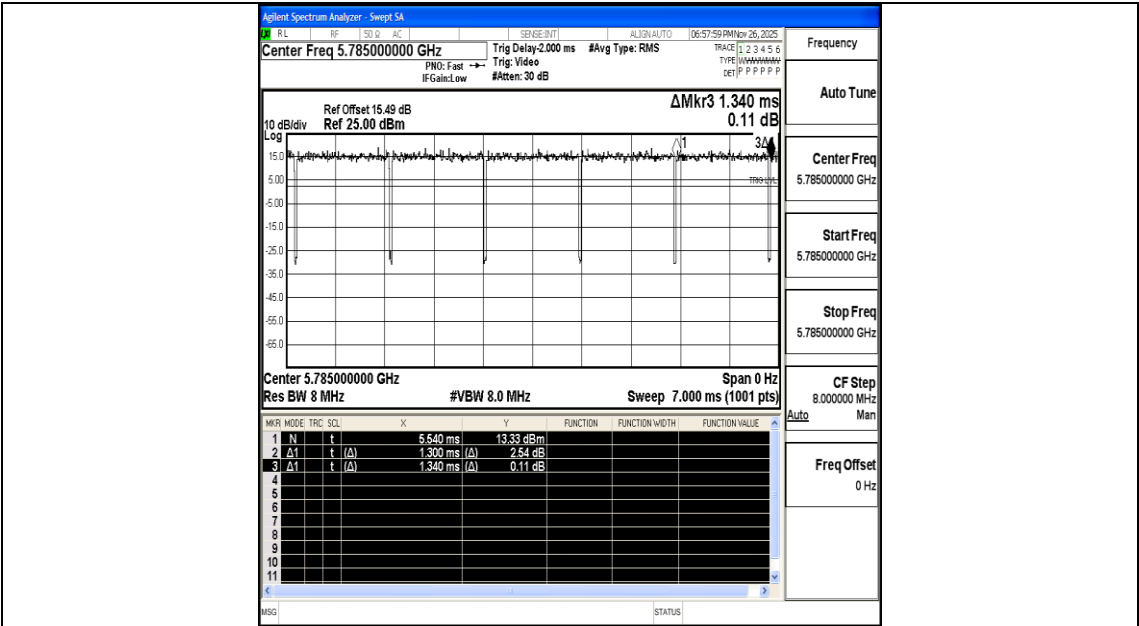




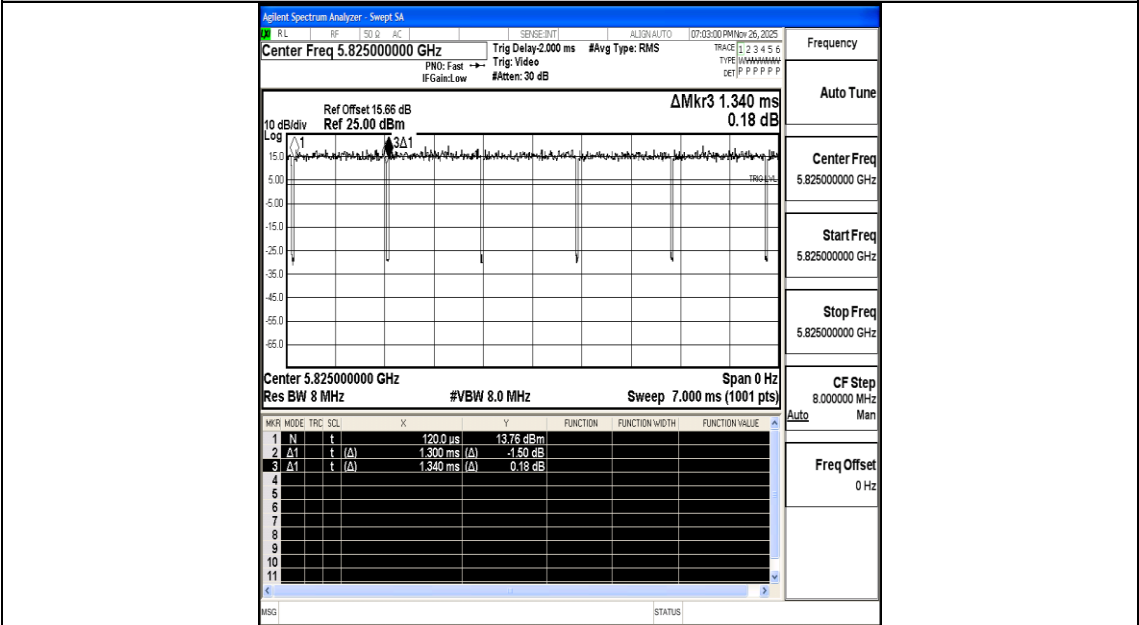
NTNV-11A-Ant1-5825



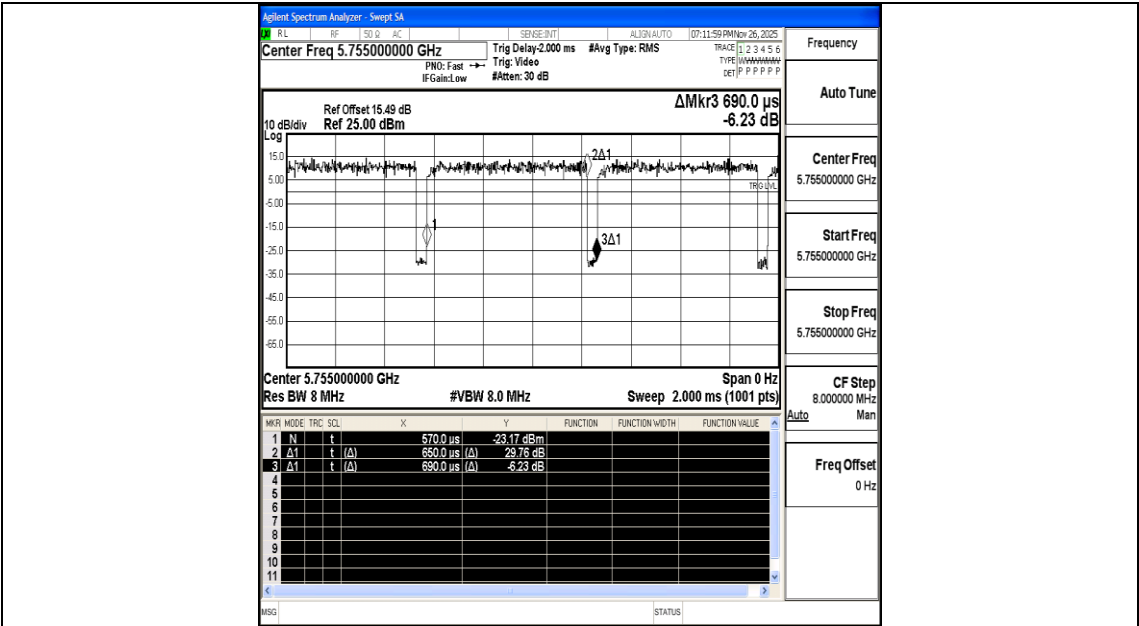
NTNV-11N20SISO-Ant1-5745



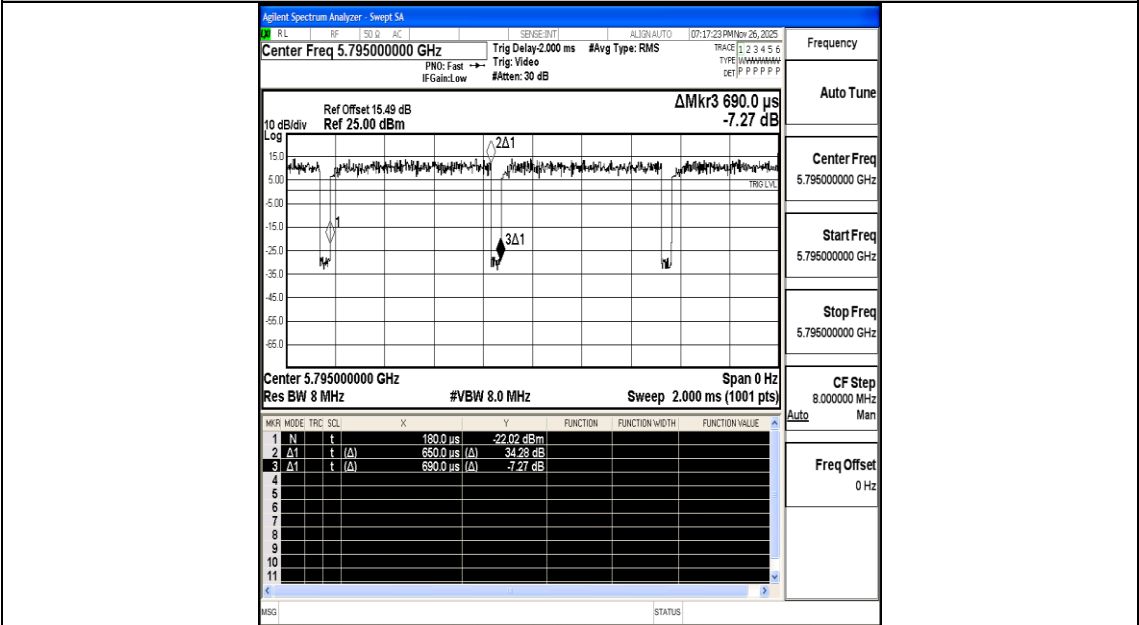
NTNV-11N20SISO-Ant1-5785



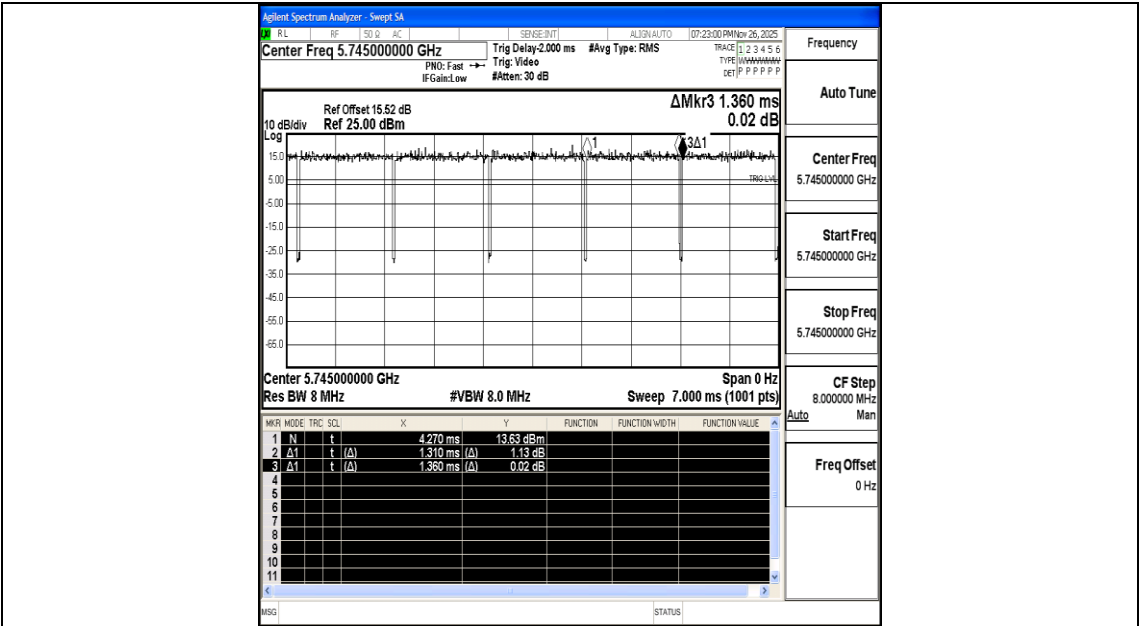
NTNV-11N20SISO-Ant1-5825



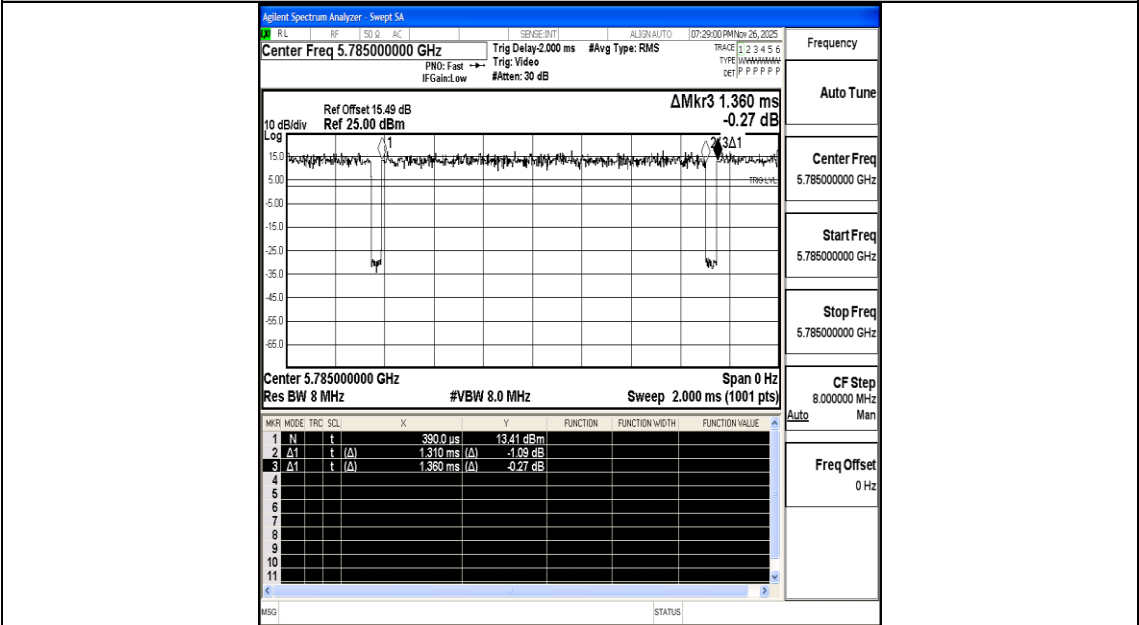
NTNV-11N40SISO-Ant1-5755



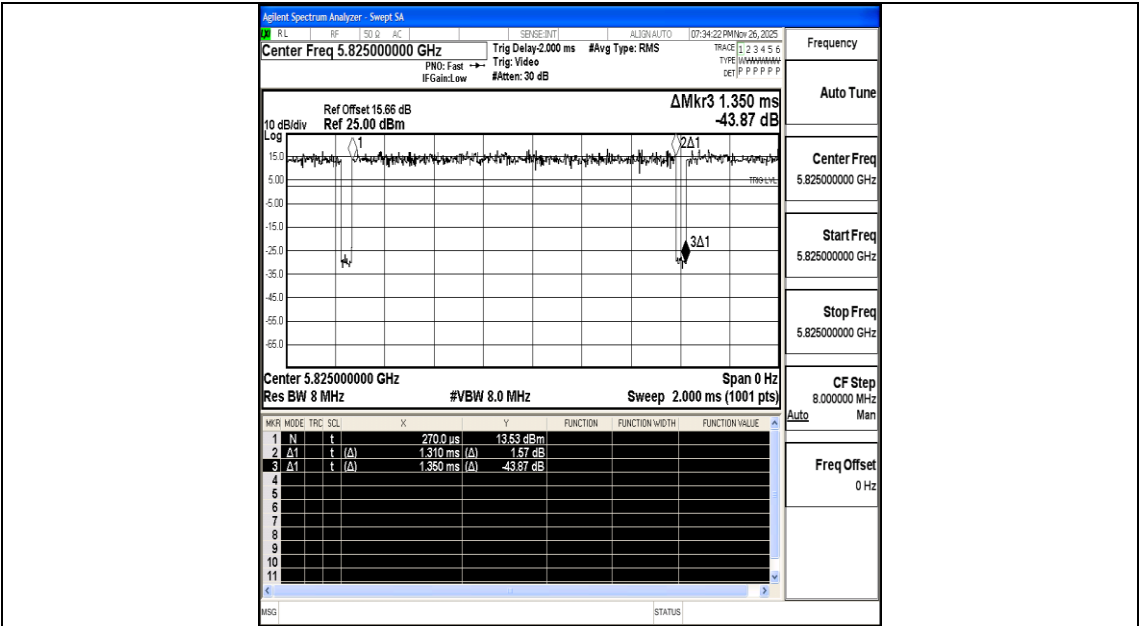
NTNV-11N40SISO-Ant1-5795



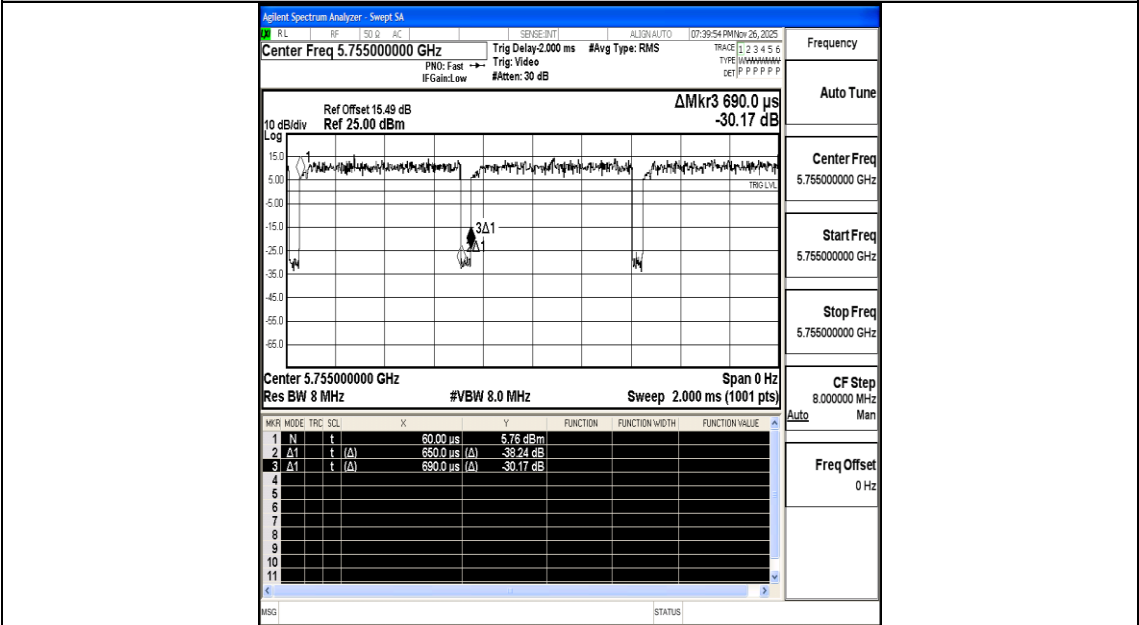
NTNV-11AC20SISO-Ant1-5745



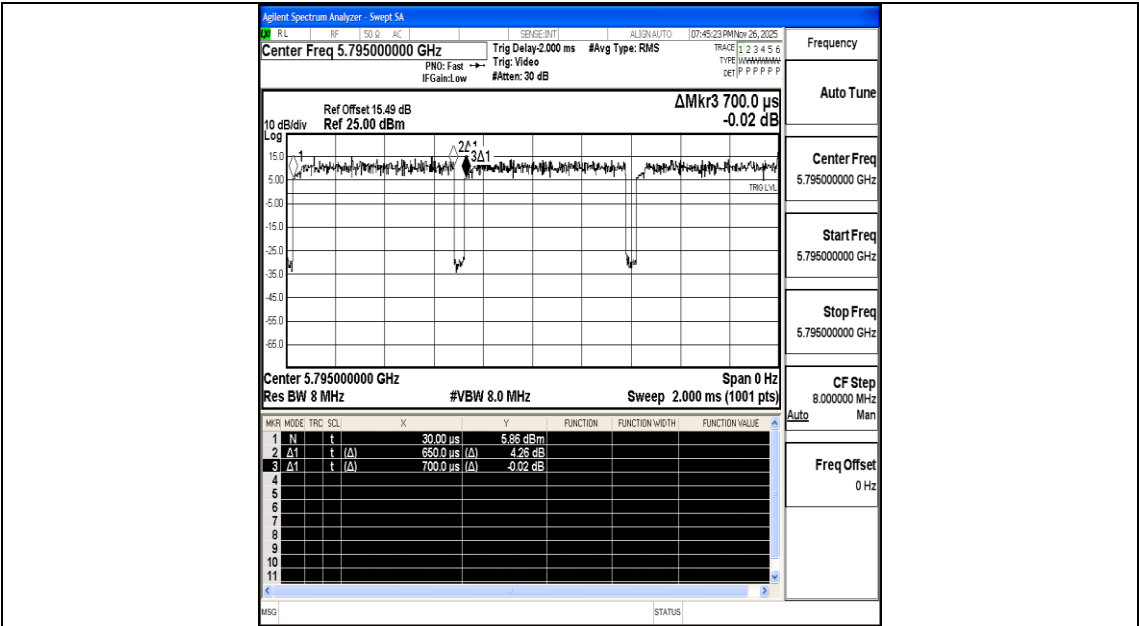
NTNV-11AC20SISO-Ant1-5785



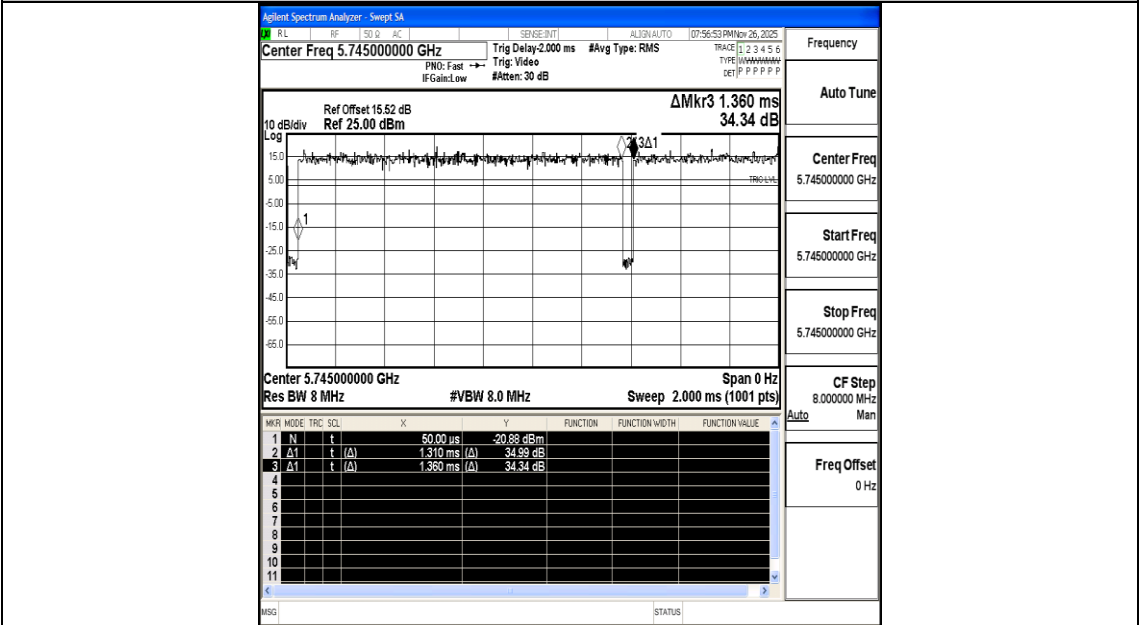
NTNV-11AC20SISO-Ant1-5825



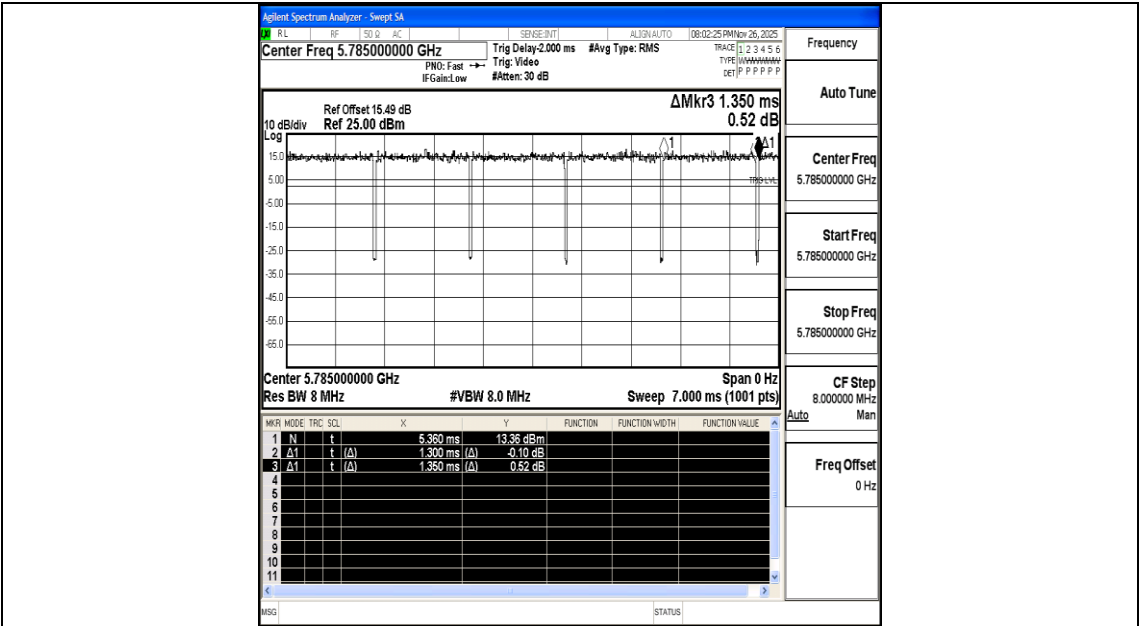
NTNV-11AC40SISO-Ant1-5755



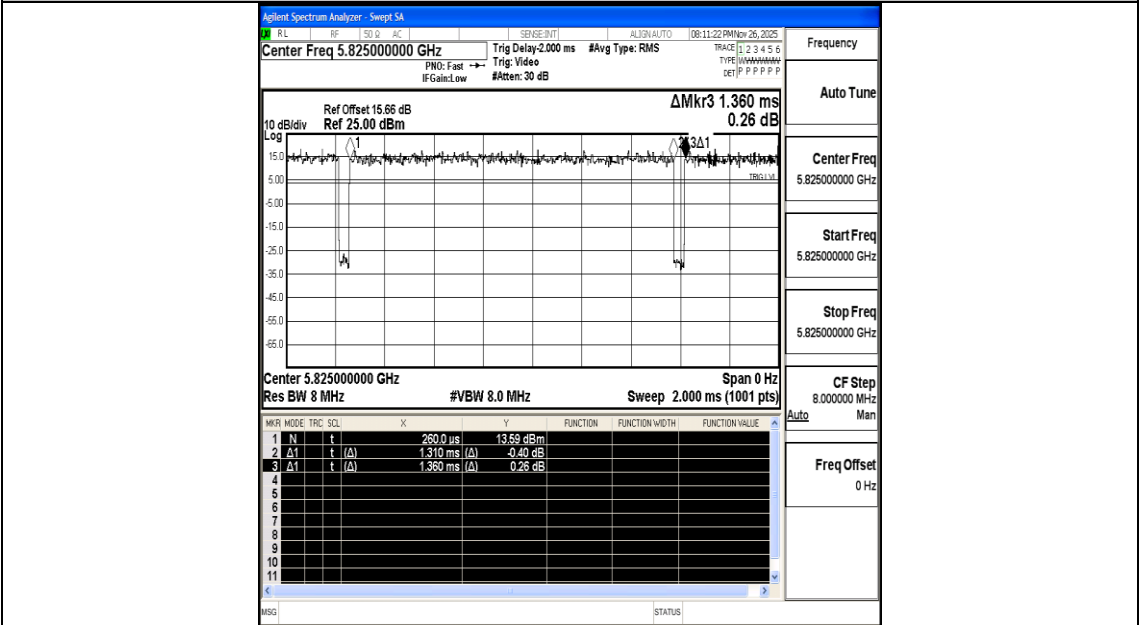
NTNV-11AC40SISO-Ant1-5795



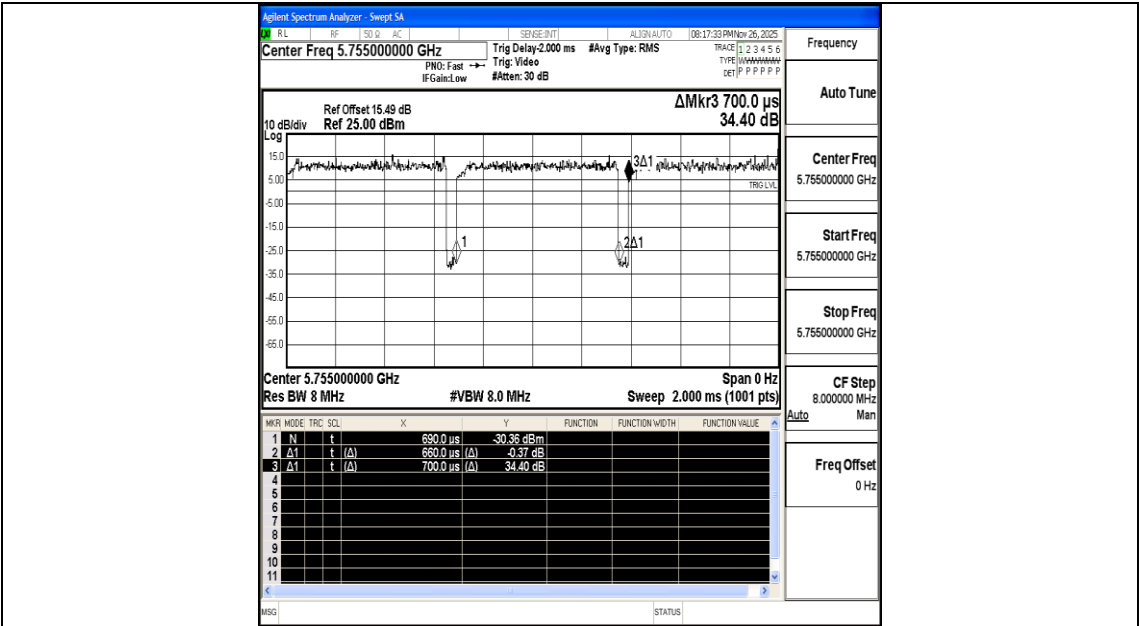
NTNV-11AX20SISO-Ant1-5745



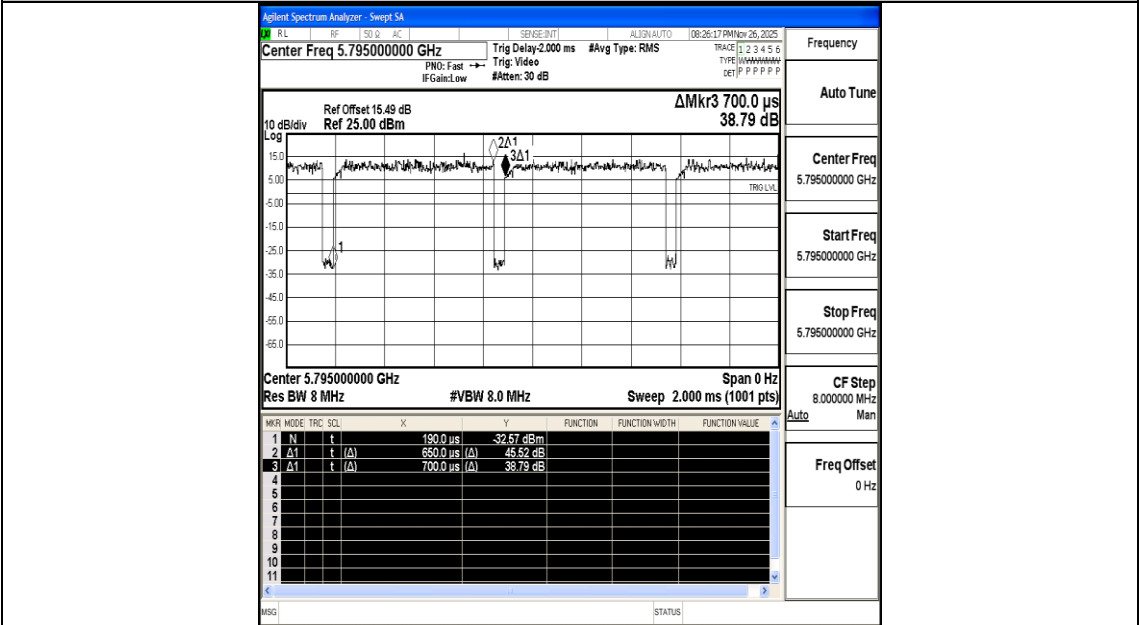
NTNV-11AX20SISO-Ant1-5785



NTNV-11AX20SISO-Ant1-5825



NTNV-11AX40SISO-Ant1-5755



NTNV-11AX40SISO-Ant1-5795

Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	10.68	96.50	0.15	10.83	≤30.00	PASS
11A	Ant1	5785	10.60	97.20	0.12	10.72	≤30.00	PASS
11A	Ant1	5825	10.79	97.20	0.12	10.91	≤30.00	PASS
11N20SISO	Ant1	5745	10.51	96.30	0.16	10.67	≤30.00	PASS
11N20SISO	Ant1	5785	10.43	97.01	0.13	10.56	≤30.00	PASS
11N20SISO	Ant1	5825	10.66	97.01	0.13	10.79	≤30.00	PASS
11N40SISO	Ant1	5755	10.23	94.20	0.26	10.49	≤30.00	PASS
11N40SISO	Ant1	5795	10.14	94.20	0.26	10.40	≤30.00	PASS
11AC20SISO	Ant1	5745	10.61	96.32	0.16	10.77	≤30.00	PASS
11AC20SISO	Ant1	5785	10.17	96.32	0.16	10.33	≤30.00	PASS
11AC20SISO	Ant1	5825	10.61	97.04	0.13	10.74	≤30.00	PASS
11AC40SISO	Ant1	5755	10.09	94.20	0.26	10.35	≤30.00	PASS
11AC40SISO	Ant1	5795	10.25	92.86	0.32	10.57	≤30.00	PASS
11AX20SISO	Ant1	5745	10.65	96.32	0.16	10.81	≤30.00	PASS
11AX20SISO	Ant1	5785	10.30	96.30	0.16	10.46	≤30.00	PASS
11AX20SISO	Ant1	5825	10.57	96.32	0.16	10.73	≤30.00	PASS
11AX40SISO	Ant1	5755	10.20	94.29	0.26	10.46	≤30.00	PASS
11AX40SISO	Ant1	5795	10.25	92.86	0.32	10.57	≤30.00	PASS

Appendix D: Maximum power spectral density

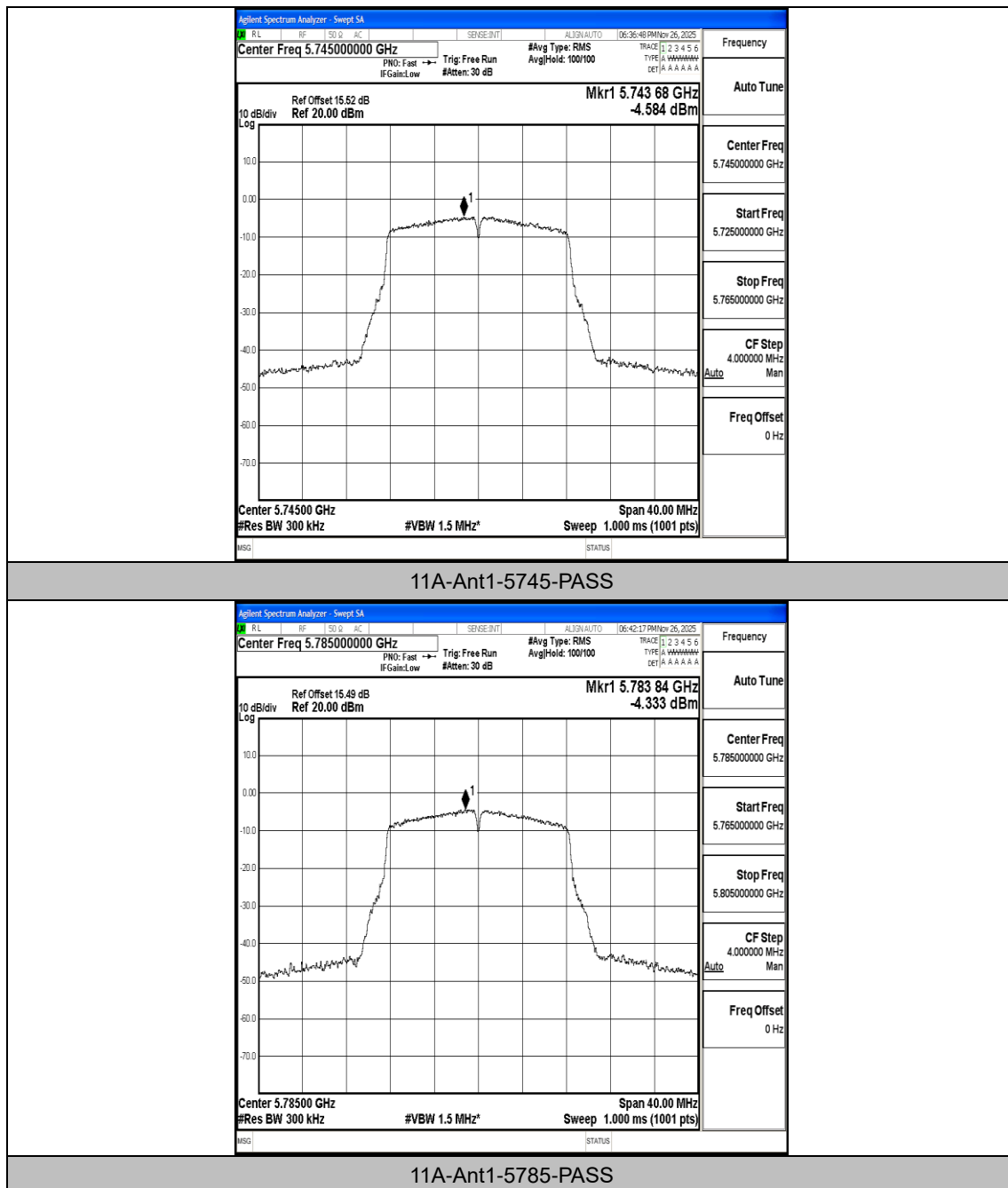
Test Result

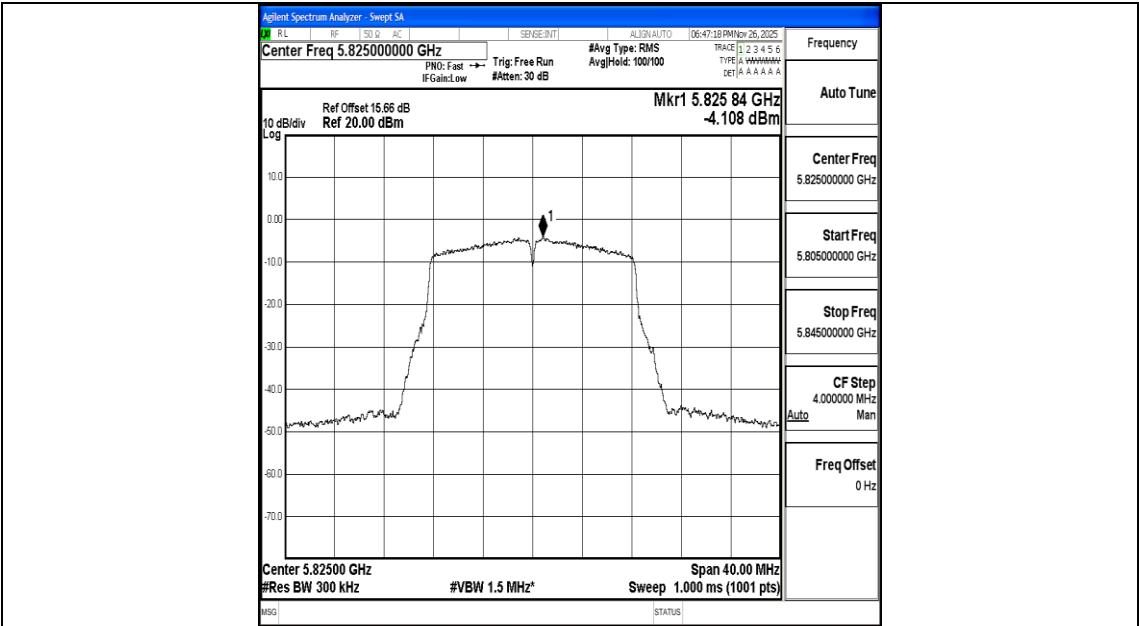
TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-2.21	≤30.00	PASS
11A	Ant1	5785	-1.99	≤30.00	PASS
11A	Ant1	5825	-1.77	≤30.00	PASS
11N20SISO	Ant1	5745	-2.48	≤30.00	PASS
11N20SISO	Ant1	5785	-2.30	≤30.00	PASS
11N20SISO	Ant1	5825	-1.95	≤30.00	PASS
11N40SISO	Ant1	5755	-5.45	≤30.00	PASS
11N40SISO	Ant1	5795	-5.56	≤30.00	PASS
11AC20SISO	Ant1	5745	-2.39	≤30.00	PASS
11AC20SISO	Ant1	5785	-2.92	≤30.00	PASS
11AC20SISO	Ant1	5825	-2.47	≤30.00	PASS
11AC40SISO	Ant1	5755	-5.70	≤30.00	PASS
11AC40SISO	Ant1	5795	-5.84	≤30.00	PASS
11AX20SISO	Ant1	5745	-2.23	≤30.00	PASS
11AX20SISO	Ant1	5785	-2.70	≤30.00	PASS
11AX20SISO	Ant1	5825	-2.12	≤30.00	PASS
11AX40SISO	Ant1	5755	-5.54	≤30.00	PASS
11AX40SISO	Ant1	5795	-5.57	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

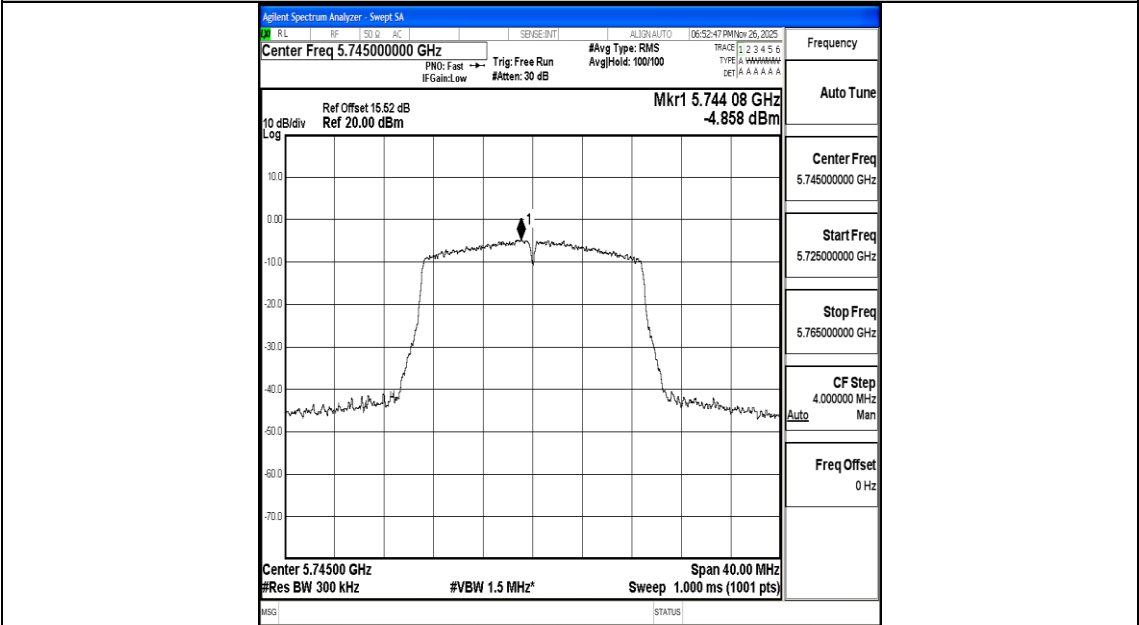
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs





11A-Ant1-5825-PASS



11N20SISO-Ant1-5745-PASS