

RF Test Data for RLAN(5. 8G) (Conducted Measurement)

Product Name: DRONE

Trade Mark: /

Test Model: G11PRO

FCC ID: 2BDOQ-G11PROS

Environmental Conditions

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

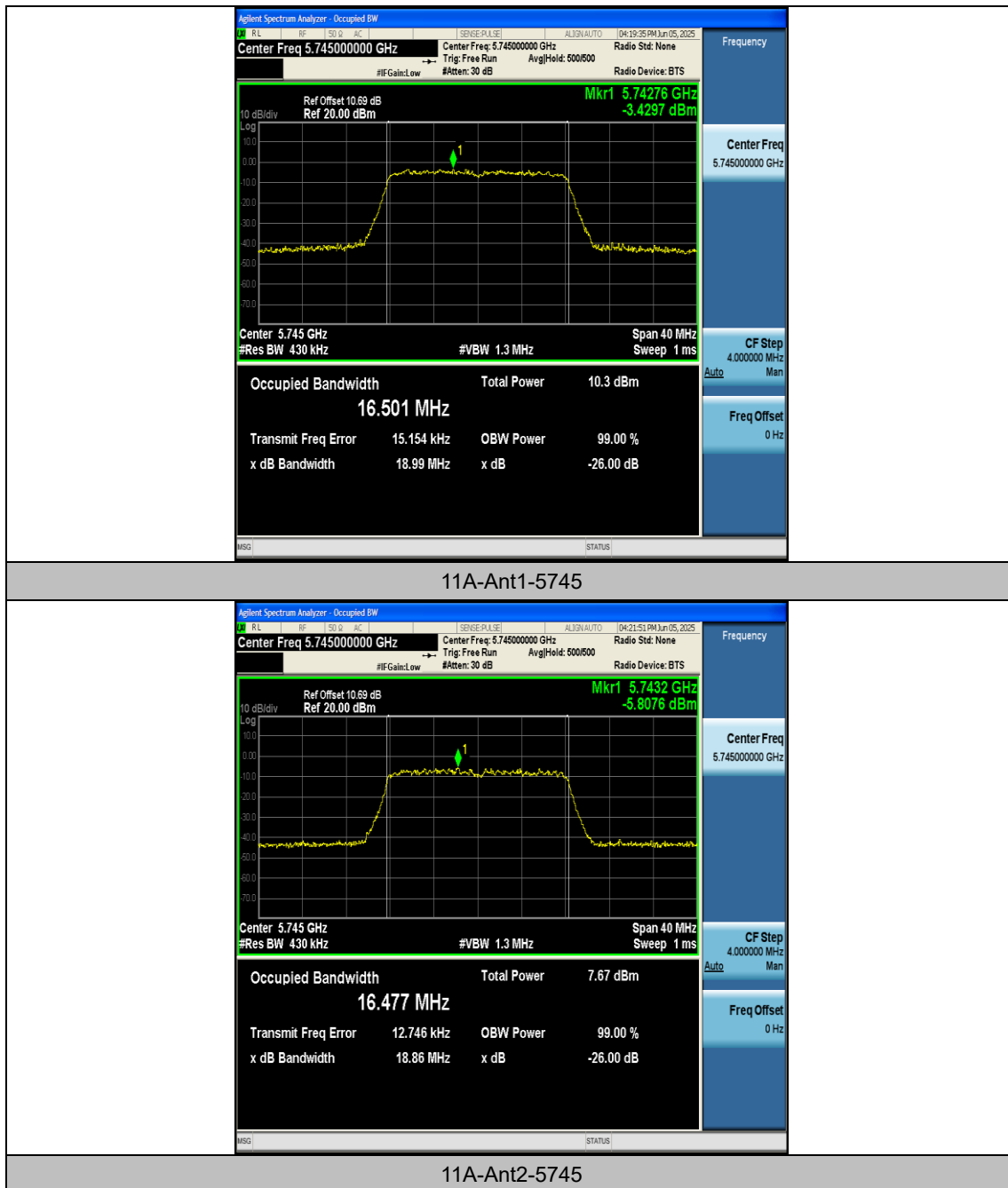
Appendix A2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.501	5736.7647	5753.2657	---	---
11A	Ant2	5745	16.477	5736.7743	5753.2513	---	---
11A	Ant1	5785	16.487	5776.7630	5793.2500	---	---
11A	Ant2	5785	16.464	5776.7810	5793.2450	---	---
11A	Ant1	5825	16.475	5816.7834	5833.2584	---	---
11A	Ant2	5825	16.476	5816.7819	5833.2579	---	---
11N20MIMO	Ant1	5745	17.758	5736.1247	5753.8827	---	---
11N20MIMO	Ant2	5745	17.764	5736.1305	5753.8945	---	---
11N20MIMO	Ant1	5785	17.739	5776.1534	5793.8924	---	---
11N20MIMO	Ant2	5785	17.778	5776.1298	5793.9078	---	---
11N20MIMO	Ant1	5825	17.720	5816.1489	5833.8689	---	---
11N20MIMO	Ant2	5825	17.740	5816.1804	5833.9204	---	---
11AC20MIMO	Ant1	5745	17.654	5736.1632	5753.8172	---	---
11AC20MIMO	Ant2	5745	17.705	5736.1465	5753.8515	---	---
11AC20MIMO	Ant1	5785	17.635	5776.1655	5793.8005	---	---
11AC20MIMO	Ant2	5785	17.679	5776.1724	5793.8514	---	---
11AC20MIMO	Ant1	5825	17.632	5816.1897	5833.8217	---	---
11AC20MIMO	Ant2	5825	17.658	5816.2059	5833.8639	---	---

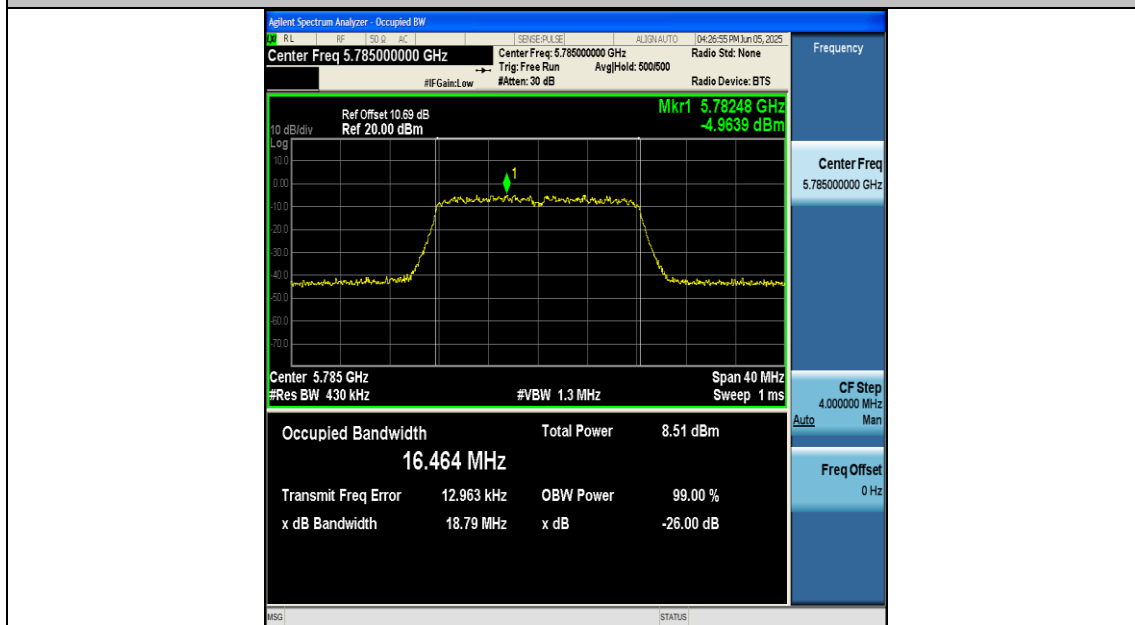
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

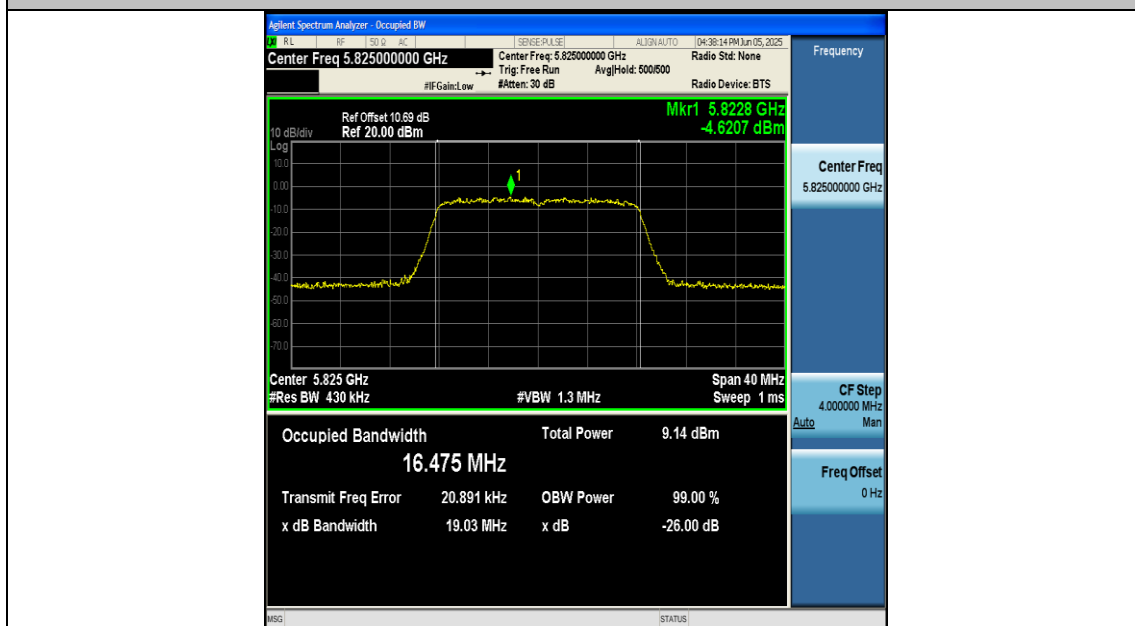




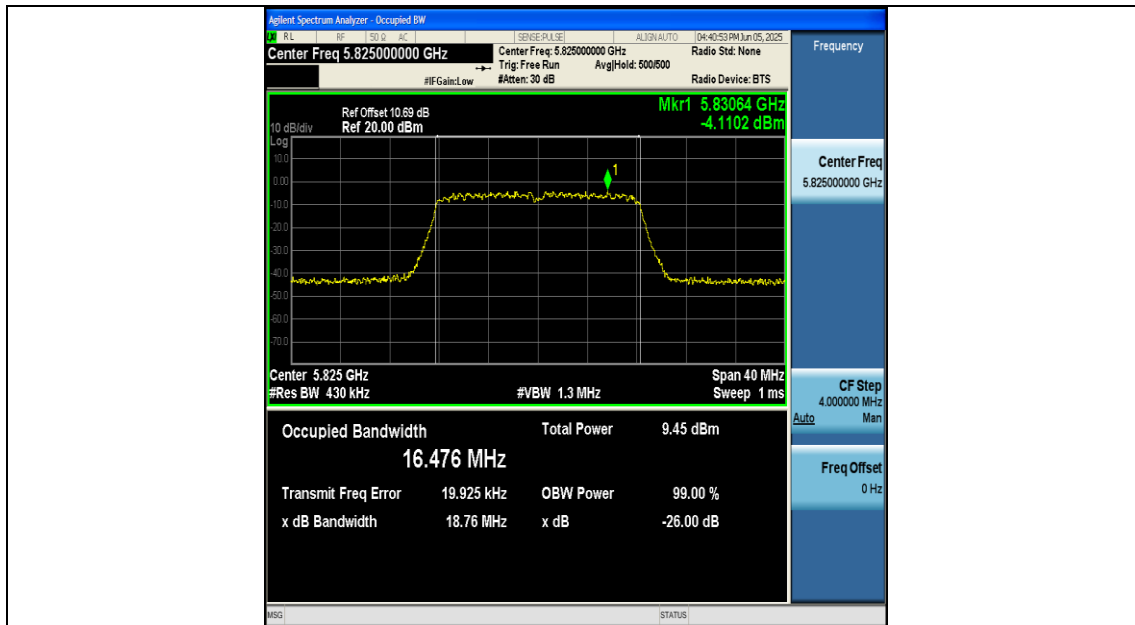
11A-Ant1-5785



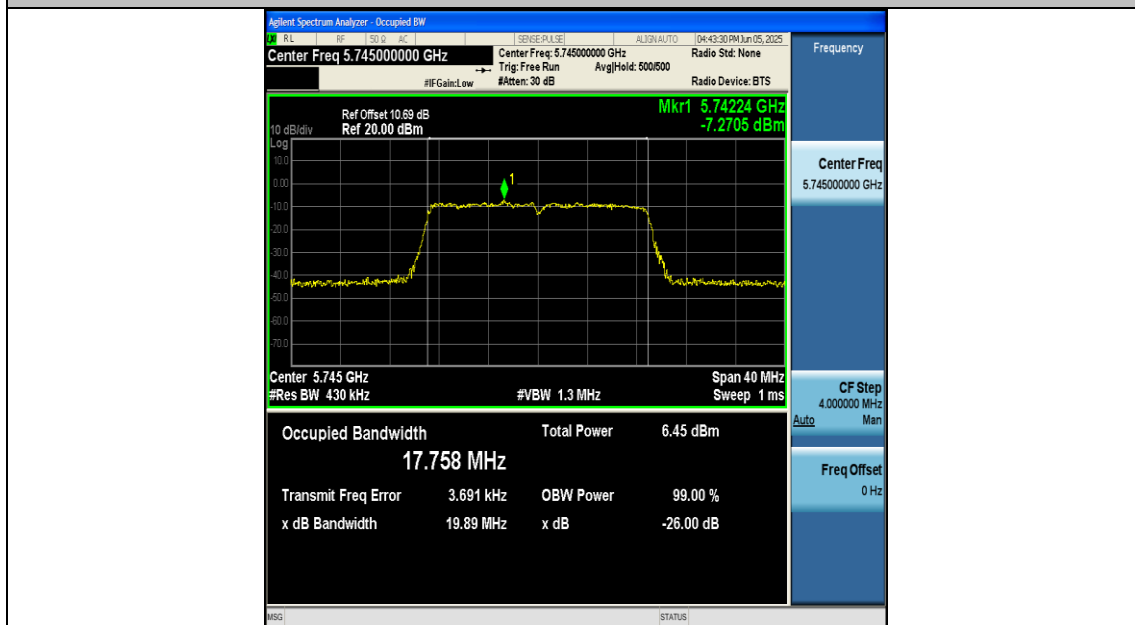
11A-Ant2-5785



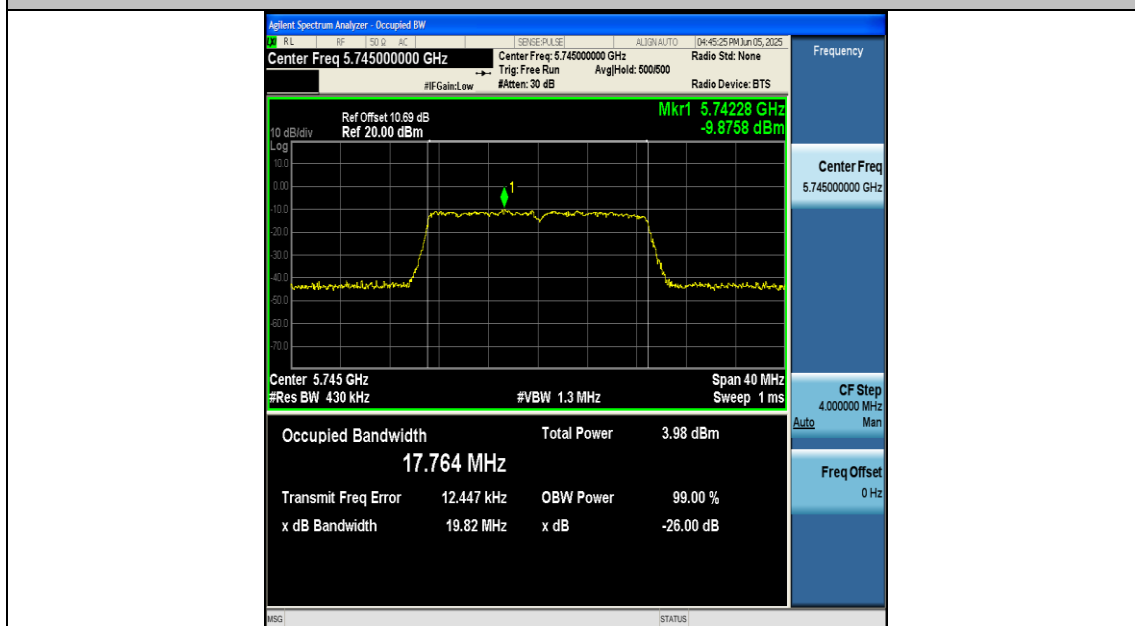
11A-Ant1-5825



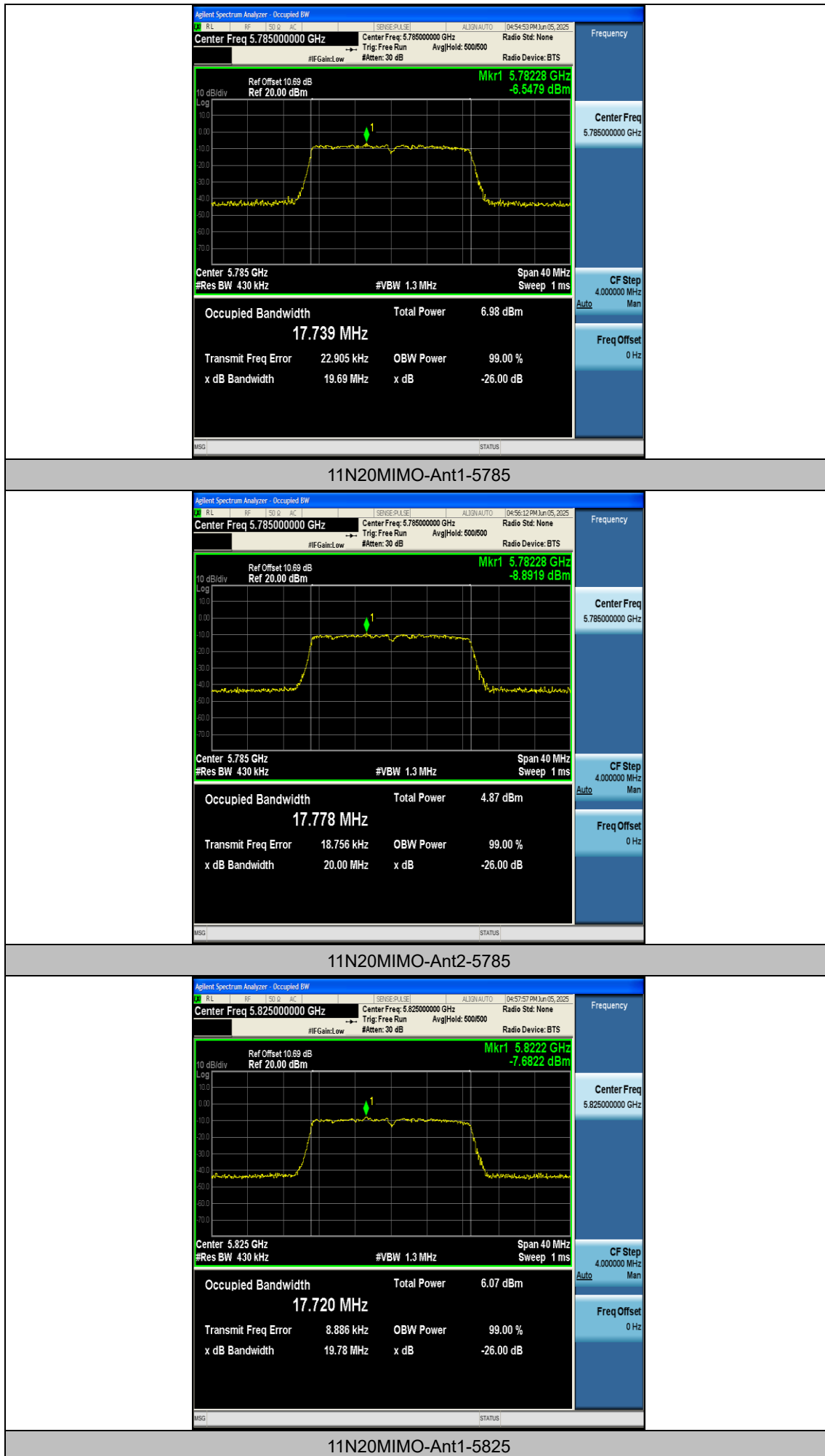
11A-Ant2-5825

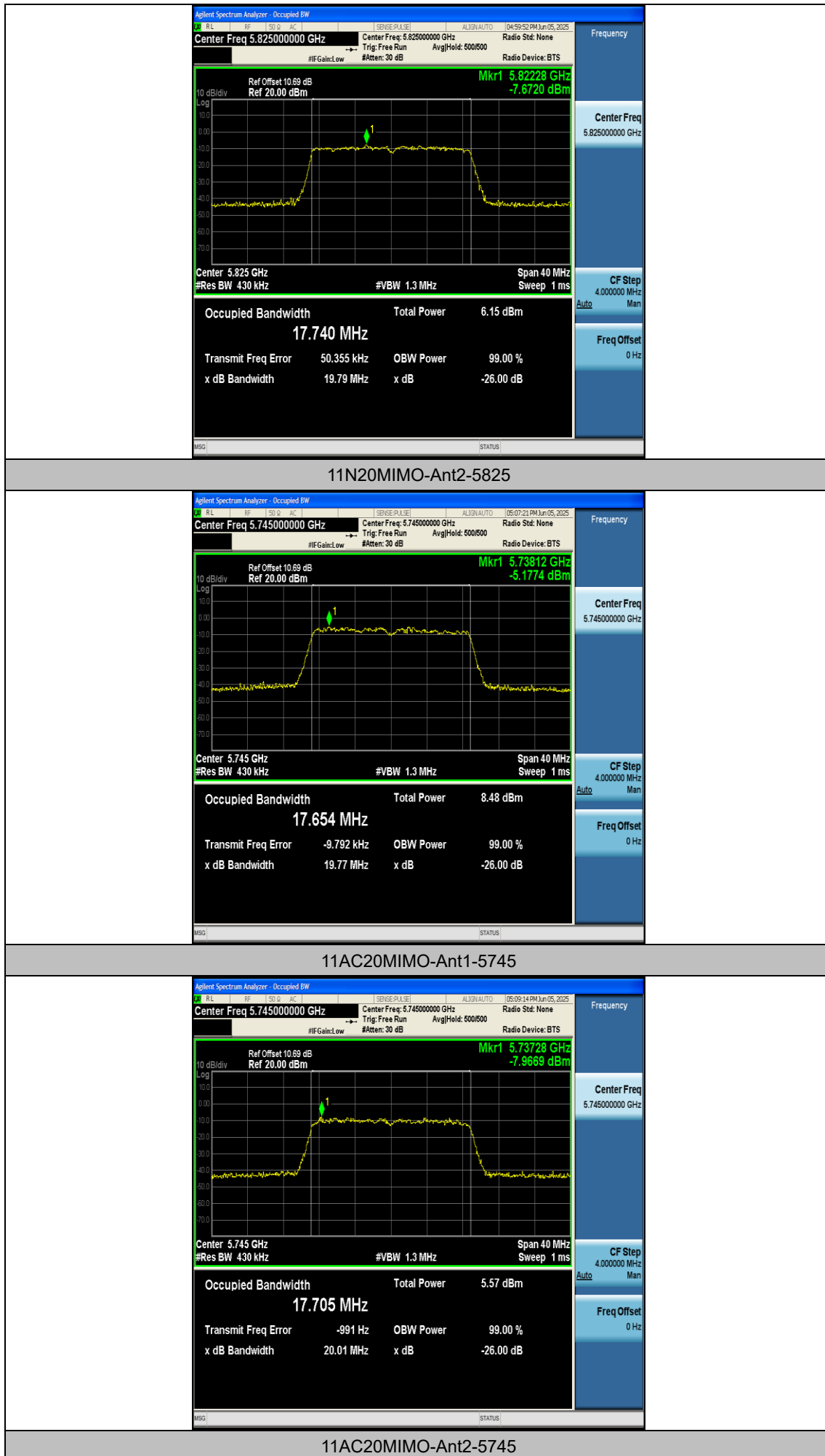


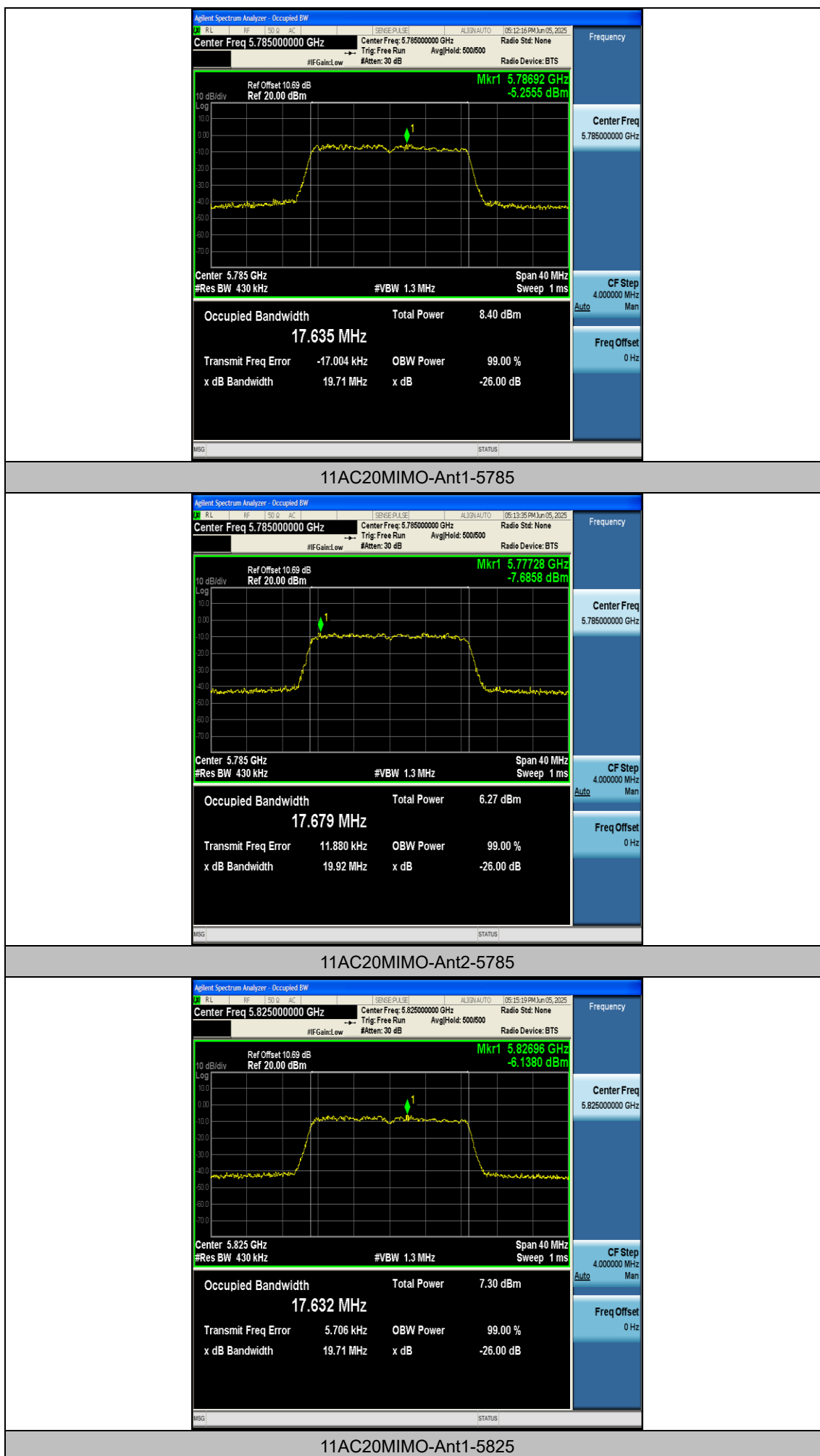
11N20MIMO-Ant1-5745

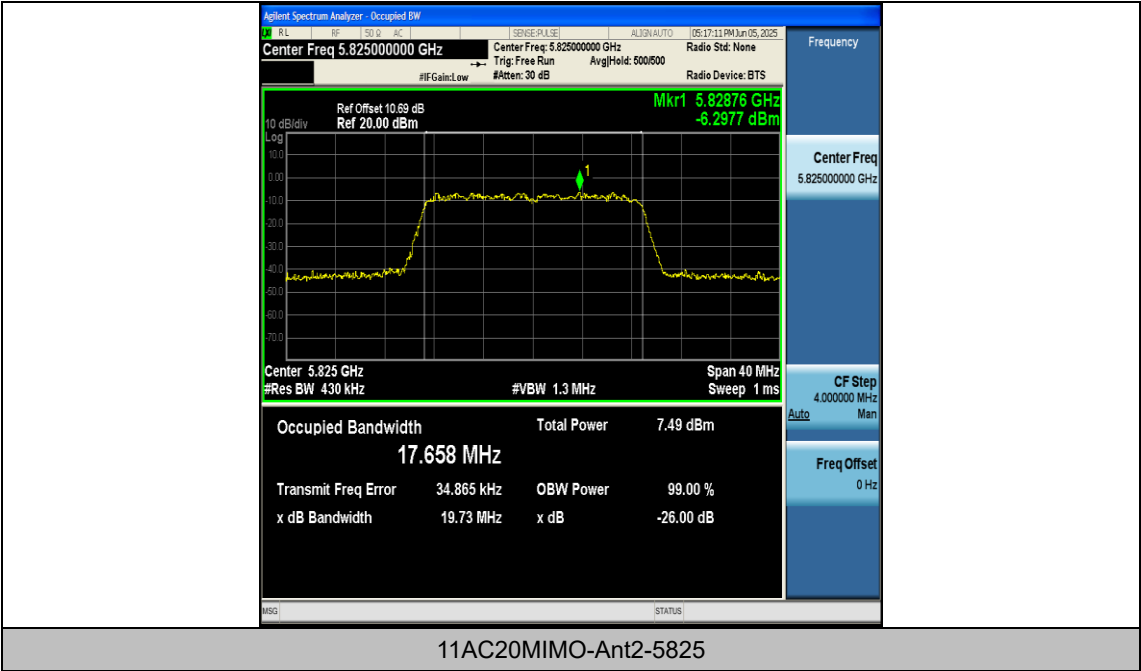


11N20MIMO-Ant2-5745









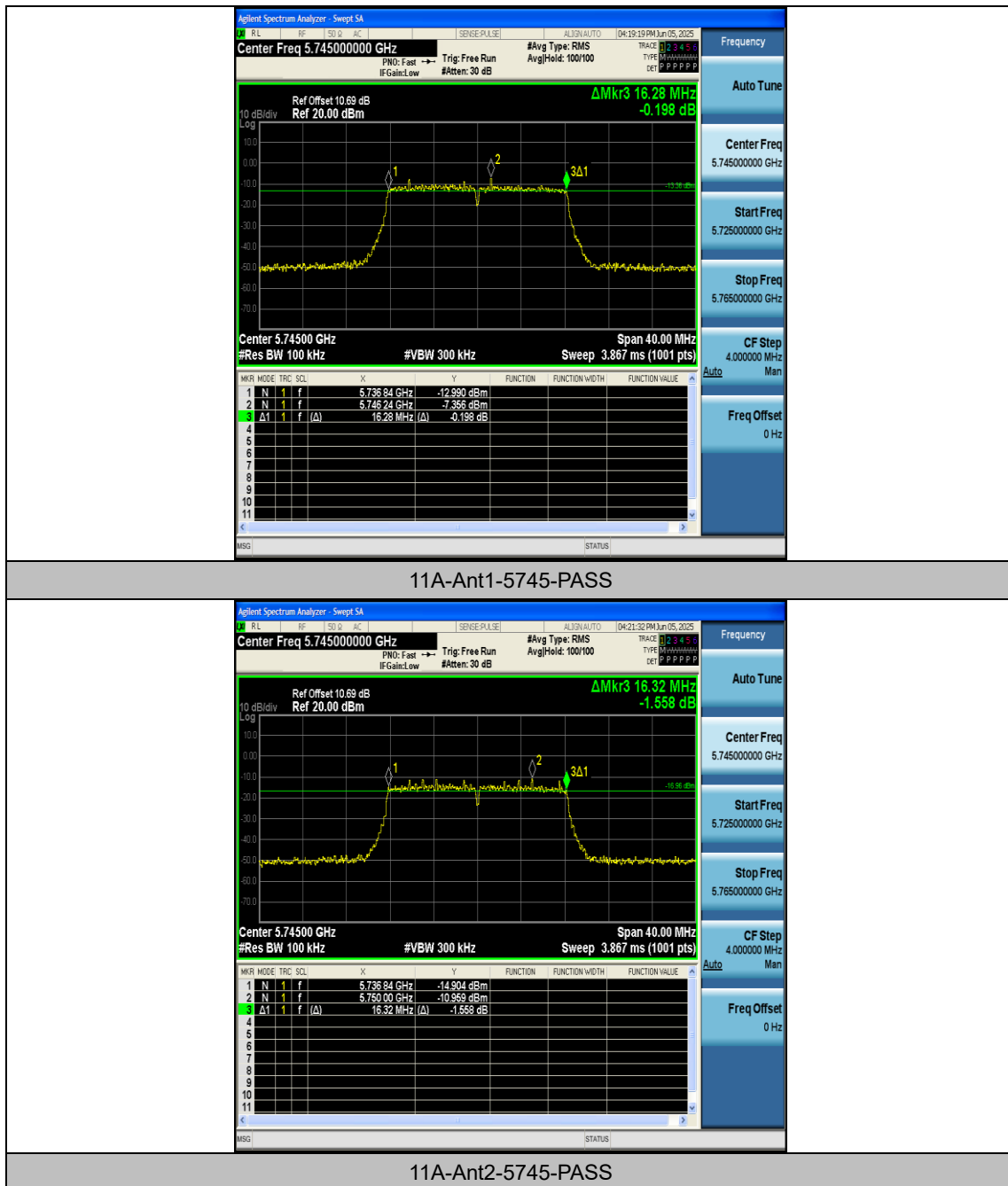
Appendix A: Min emission bandwidth

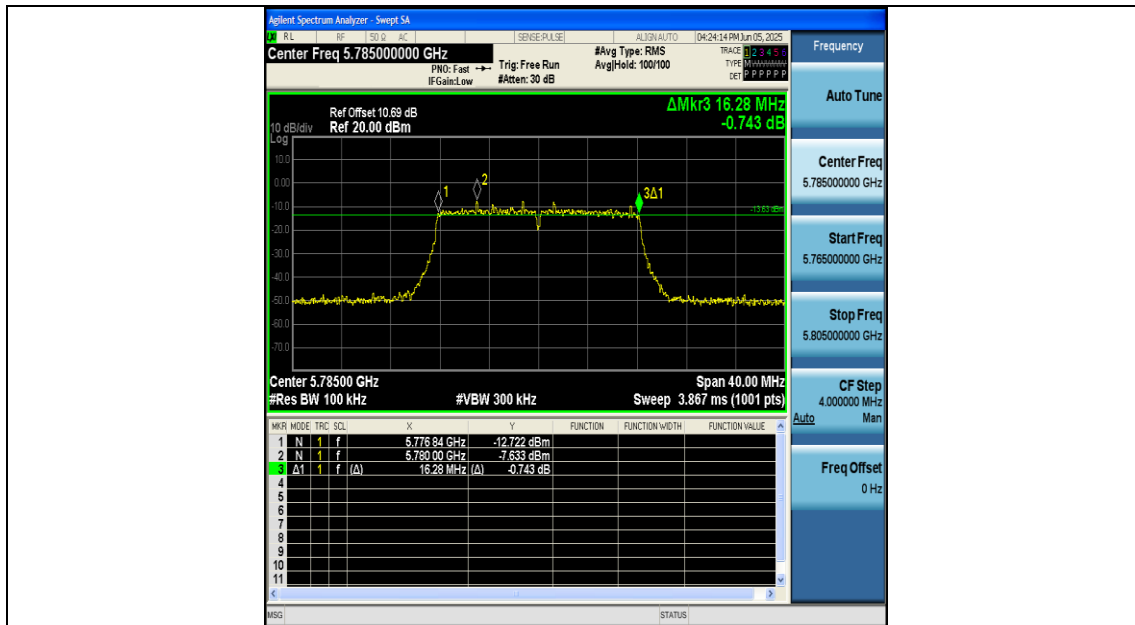
Test Result

Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.280	5736.840	5753.120	0.5	PASS
11A	Ant2	5745	16.320	5736.840	5753.160	0.5	PASS
11A	Ant1	5785	16.280	5776.840	5793.120	0.5	PASS
11A	Ant2	5785	16.320	5776.840	5793.160	0.5	PASS
11A	Ant1	5825	16.280	5816.840	5833.120	0.5	PASS
11A	Ant2	5825	16.320	5816.840	5833.160	0.5	PASS
11N20MIMO	Ant1	5745	17.440	5736.200	5753.640	0.5	PASS
11N20MIMO	Ant2	5745	17.480	5736.200	5753.680	0.5	PASS
11N20MIMO	Ant1	5785	17.360	5776.200	5793.560	0.5	PASS
11N20MIMO	Ant2	5785	17.160	5776.200	5793.360	0.5	PASS
11N20MIMO	Ant1	5825	17.360	5816.200	5833.560	0.5	PASS
11N20MIMO	Ant2	5825	17.440	5816.240	5833.680	0.5	PASS
11AC20MIMO	Ant1	5745	17.600	5736.200	5753.800	0.5	PASS
11AC20MIMO	Ant2	5745	16.600	5736.240	5752.840	0.5	PASS
11AC20MIMO	Ant1	5785	17.120	5776.360	5793.480	0.5	PASS
11AC20MIMO	Ant2	5785	16.840	5776.520	5793.360	0.5	PASS
11AC20MIMO	Ant1	5825	17.160	5816.360	5833.520	0.5	PASS
11AC20MIMO	Ant2	5825	16.240	5816.920	5833.160	0.5	PASS

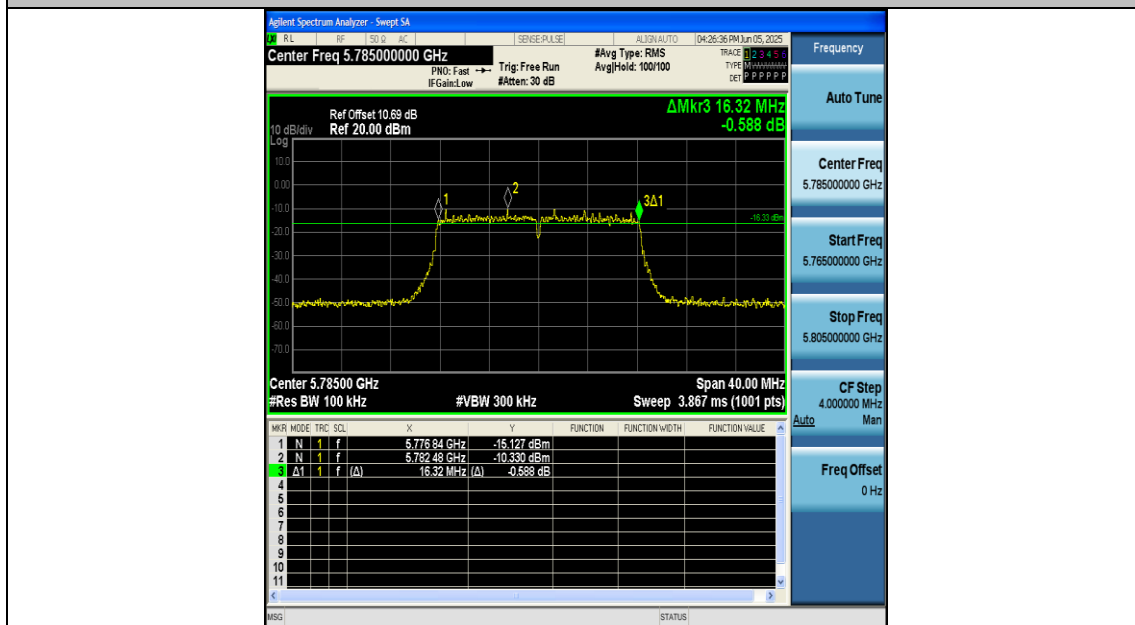
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

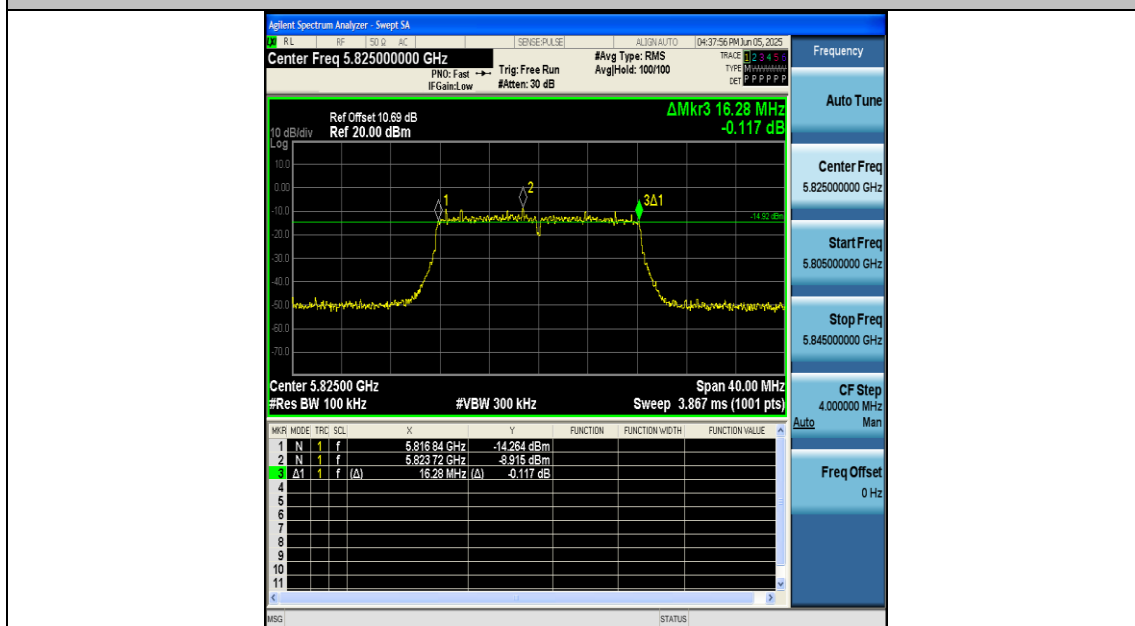




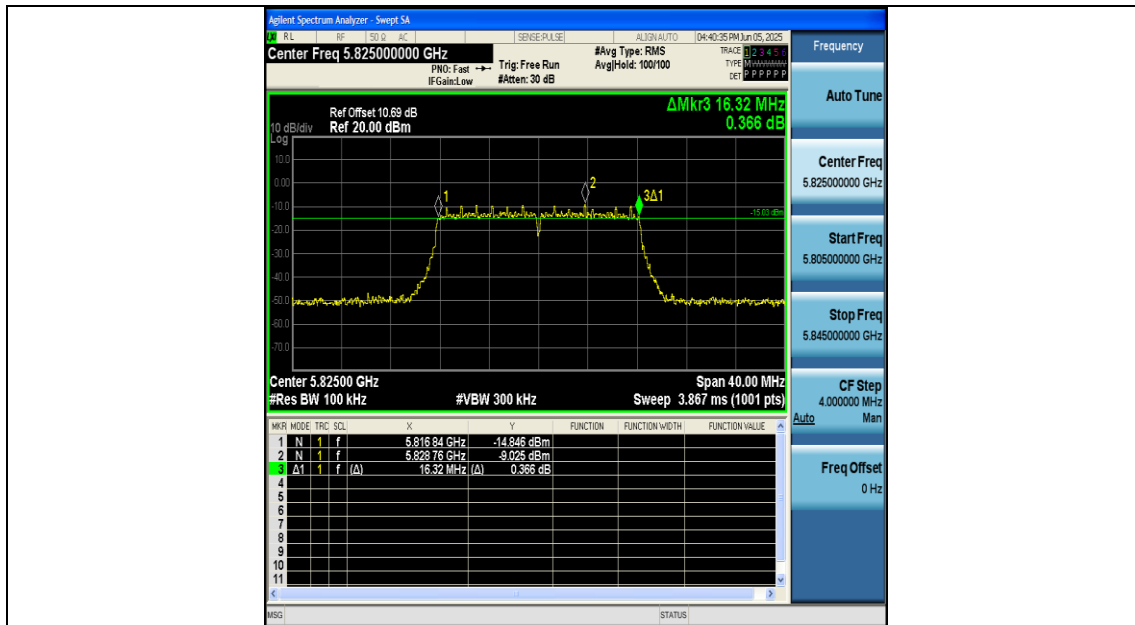
11A-Ant1-5785-PASS



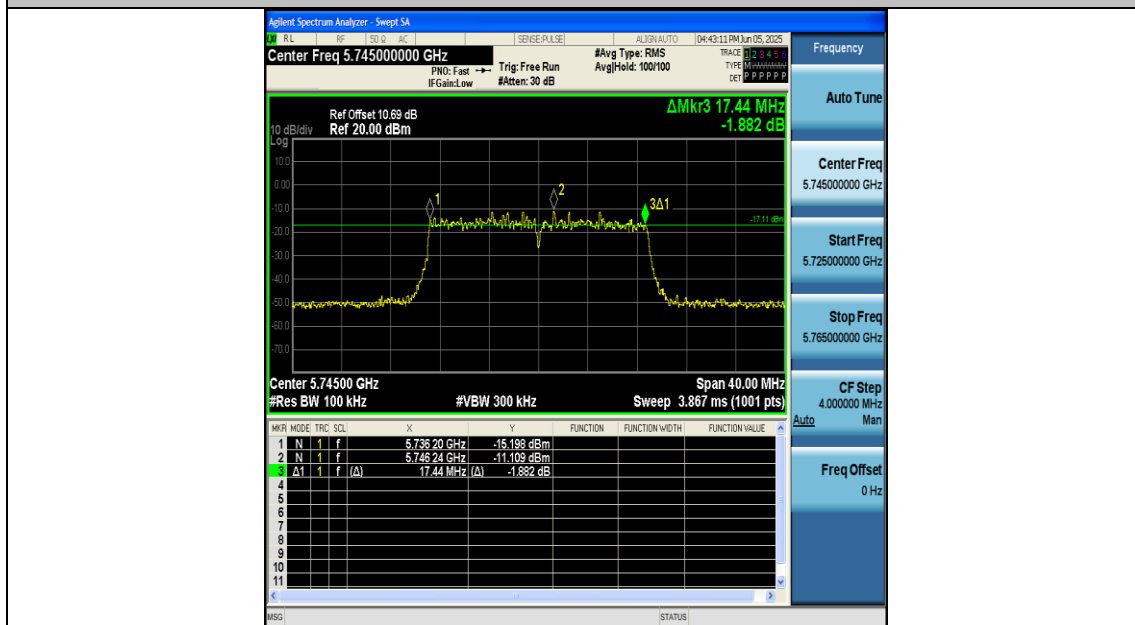
11A-Ant2-5785-PASS



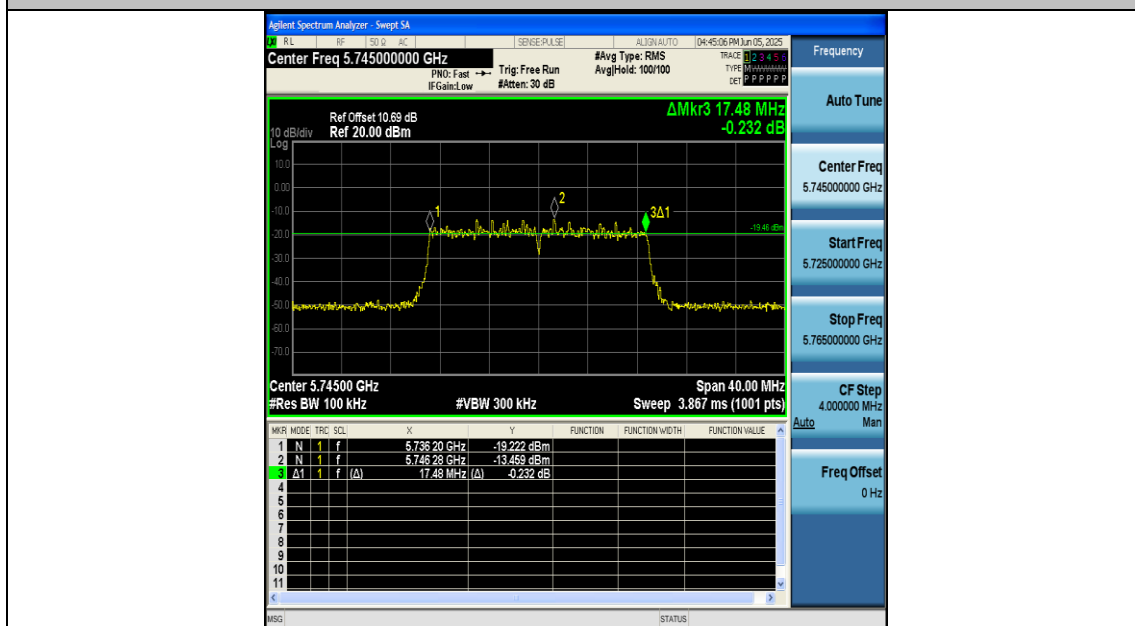
11A-Ant1-5825-PASS



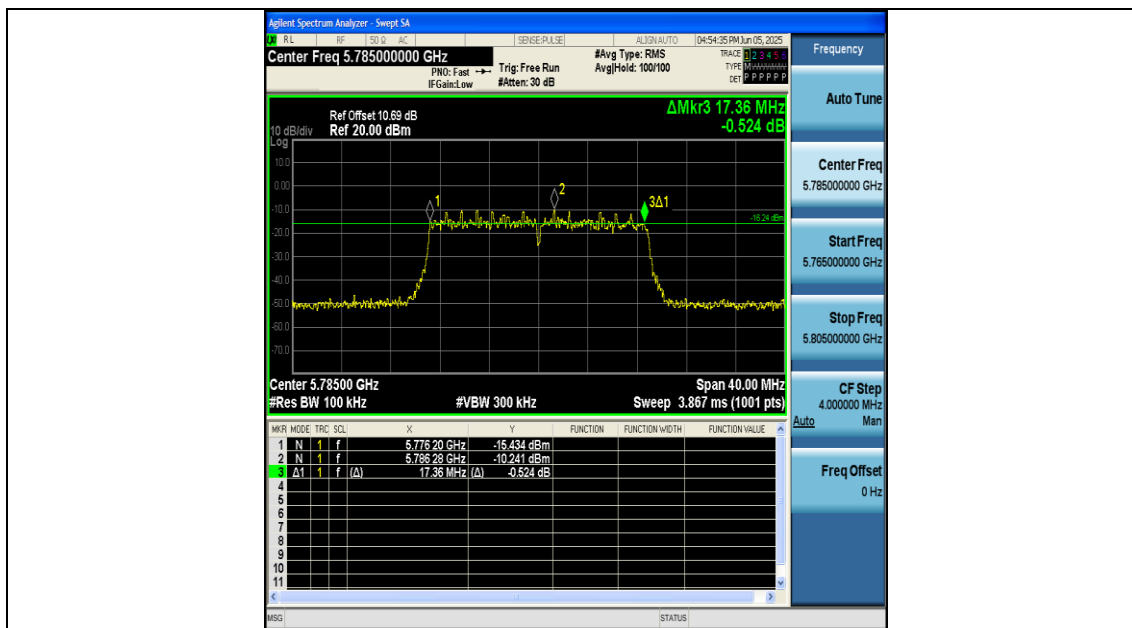
11A-Ant2-5825-PASS



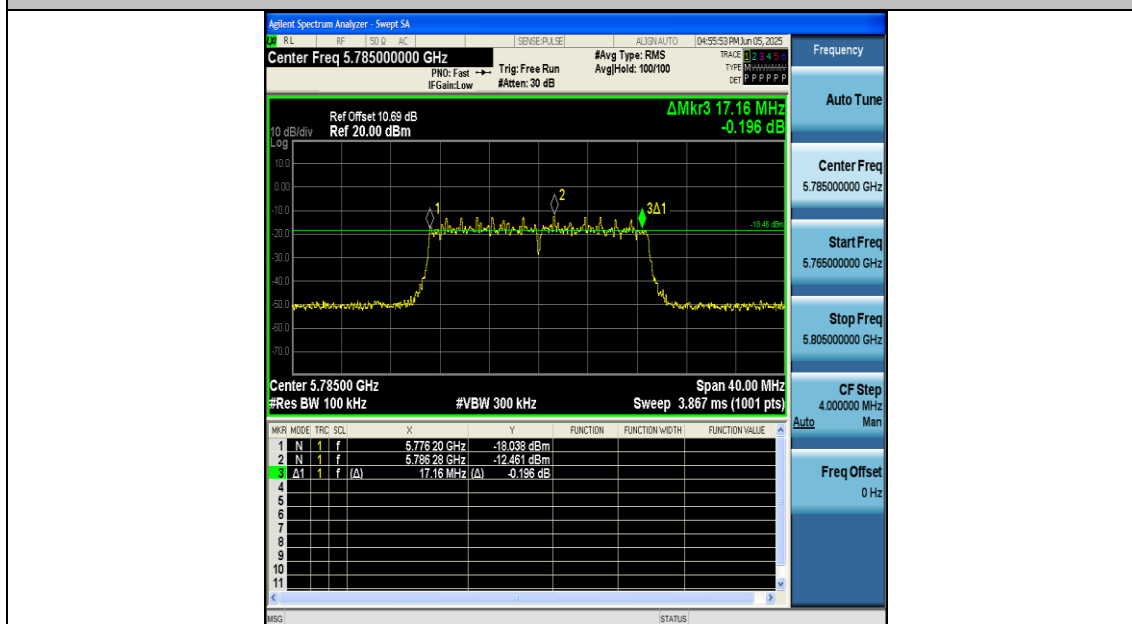
11N20MIMO-Ant1-5745-PASS



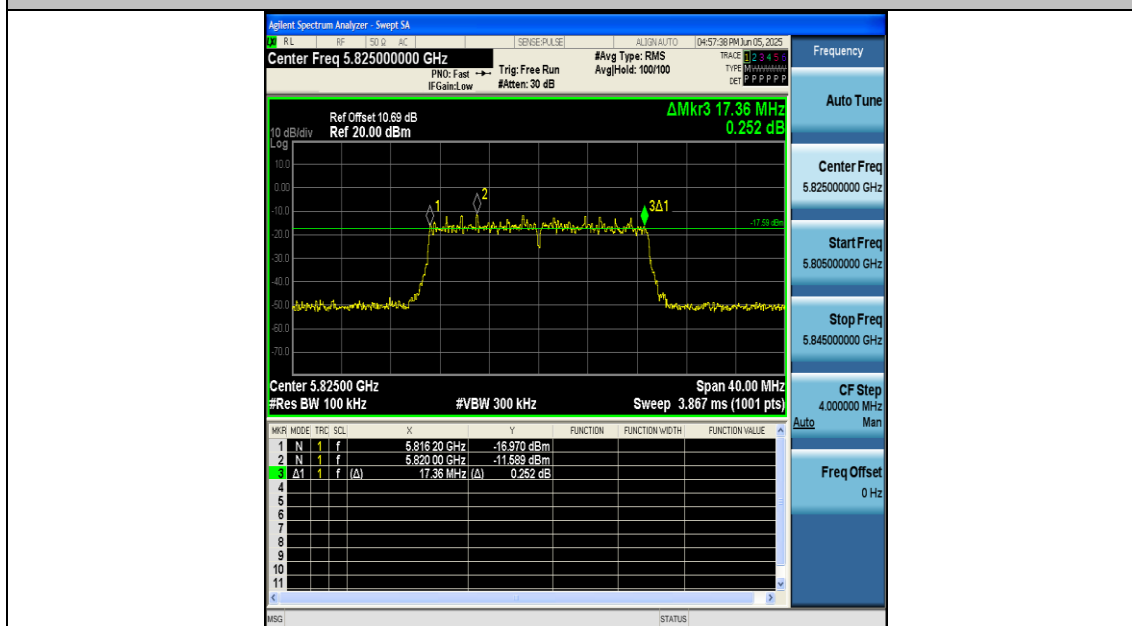
11N20MIMO-Ant2-5745-PASS



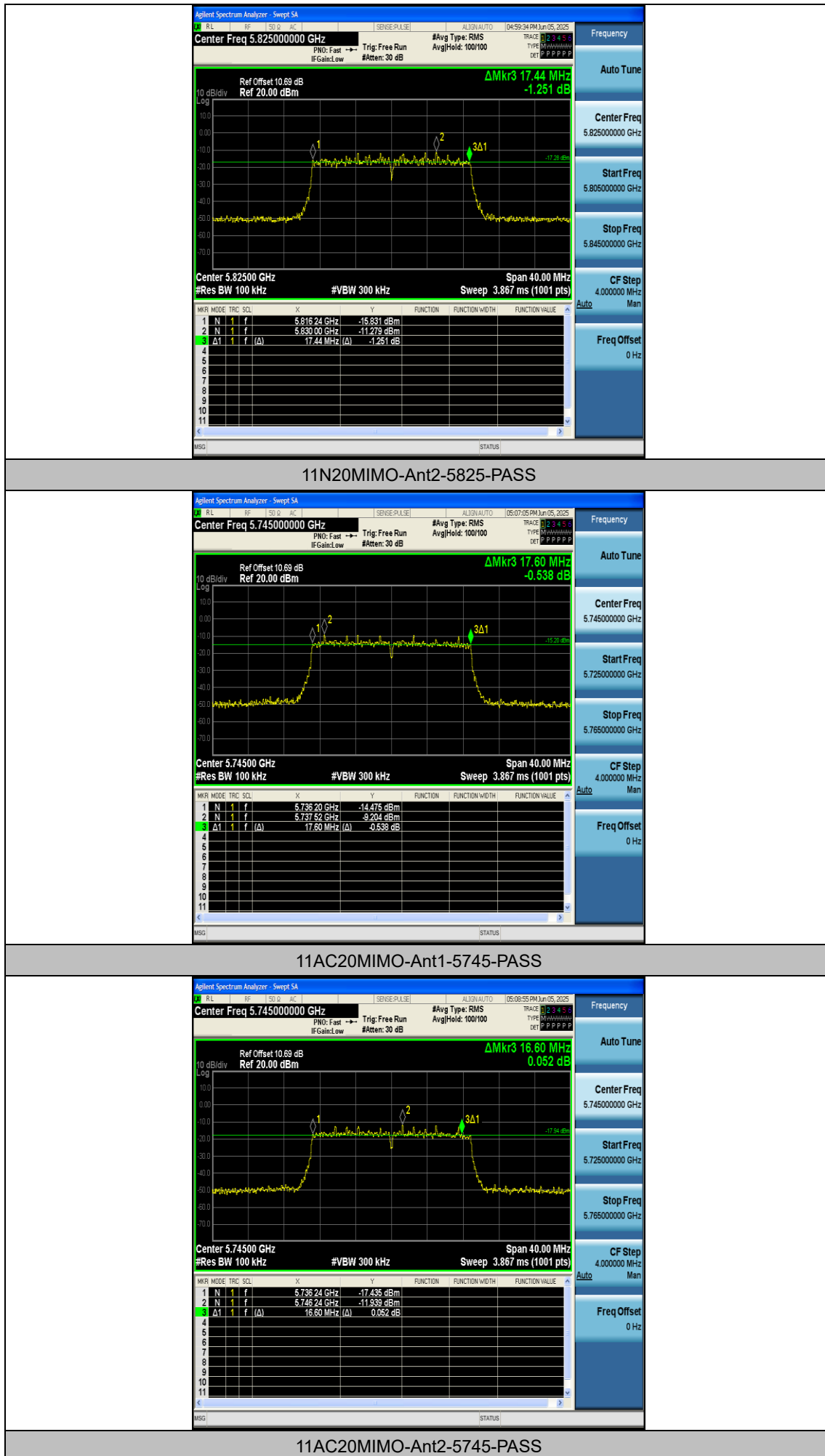
11N20MIMO-Ant1-5785-PASS

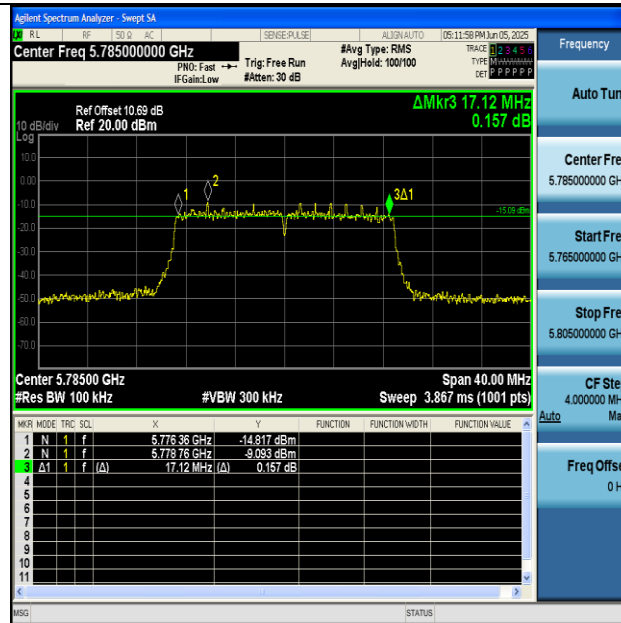


11N20MIMO-Ant2-5785-PASS

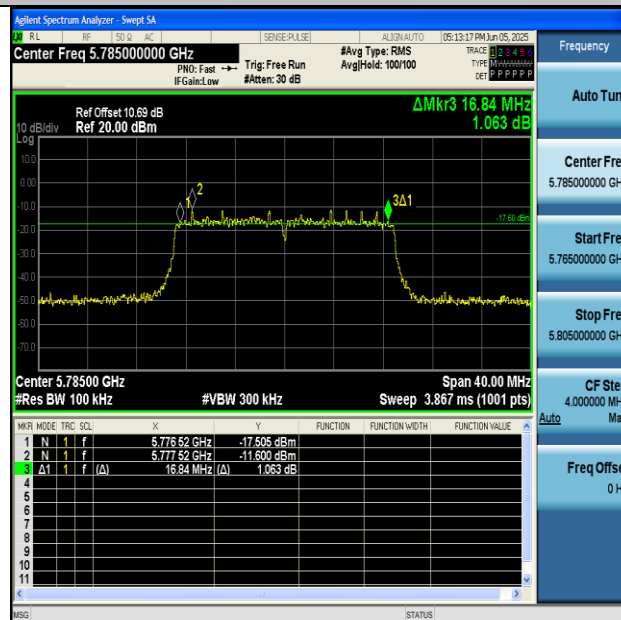


11N20MIMO-Ant1-5825-PASS

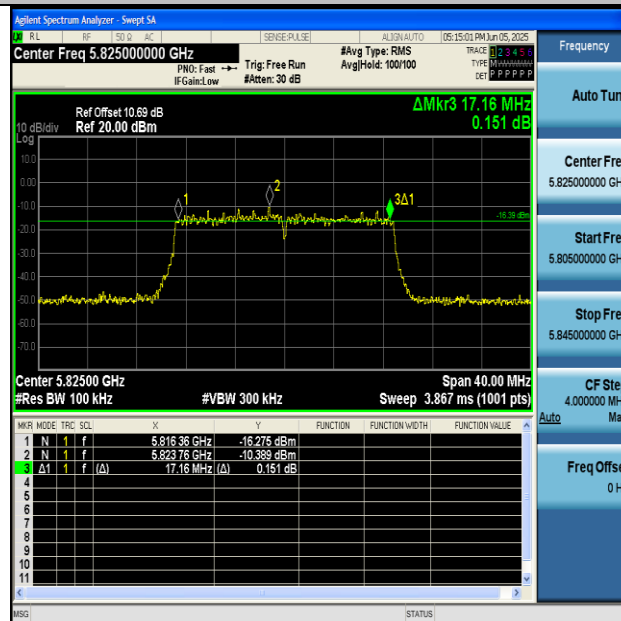




11AC20MIMO-Ant1-5785-PASS



11AC20MIMO-Ant2-5785-PASS



11AC20MIMO-Ant1-5825-PASS



Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11A	Ant1	5745	3.52	≤30.00	PASS
11A	Ant2	5745	0.41	≤30.00	PASS
11A	Ant1	5785	3.46	≤30.00	PASS
11A	Ant2	5785	1.17	≤30.00	PASS
11A	Ant1	5825	2.26	≤30.00	PASS
11A	Ant2	5825	2.45	≤30.00	PASS
11N20MIMO	Ant1	5745	0.12	≤30.00	PASS
11N20MIMO	Ant2	5745	-2.31	≤30.00	PASS
11N20MIMO	total	5745	2.08	≤30.00	PASS
11N20MIMO	Ant1	5785	0.89	≤30.00	PASS
11N20MIMO	Ant2	5785	-1.28	≤30.00	PASS
11N20MIMO	total	5785	2.95	≤30.00	PASS
11N20MIMO	Ant1	5825	-0.23	≤30.00	PASS
11N20MIMO	Ant2	5825	-0.05	≤30.00	PASS
11N20MIMO	total	5825	2.87	≤30.00	PASS
11AC20MIMO	Ant1	5745	1.73	≤30.00	PASS
11AC20MIMO	Ant2	5745	-0.79	≤30.00	PASS
11AC20MIMO	total	5745	3.66	≤30.00	PASS
11AC20MIMO	Ant1	5785	2.16	≤30.00	PASS
11AC20MIMO	Ant2	5785	-0.26	≤30.00	PASS
11AC20MIMO	total	5785	4.13	≤30.00	PASS
11AC20MIMO	Ant1	5825	0.76	≤30.00	PASS
11AC20MIMO	Ant2	5825	1.36	≤30.00	PASS
11AC20MIMO	total	5825	4.08	≤30.00	PASS

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

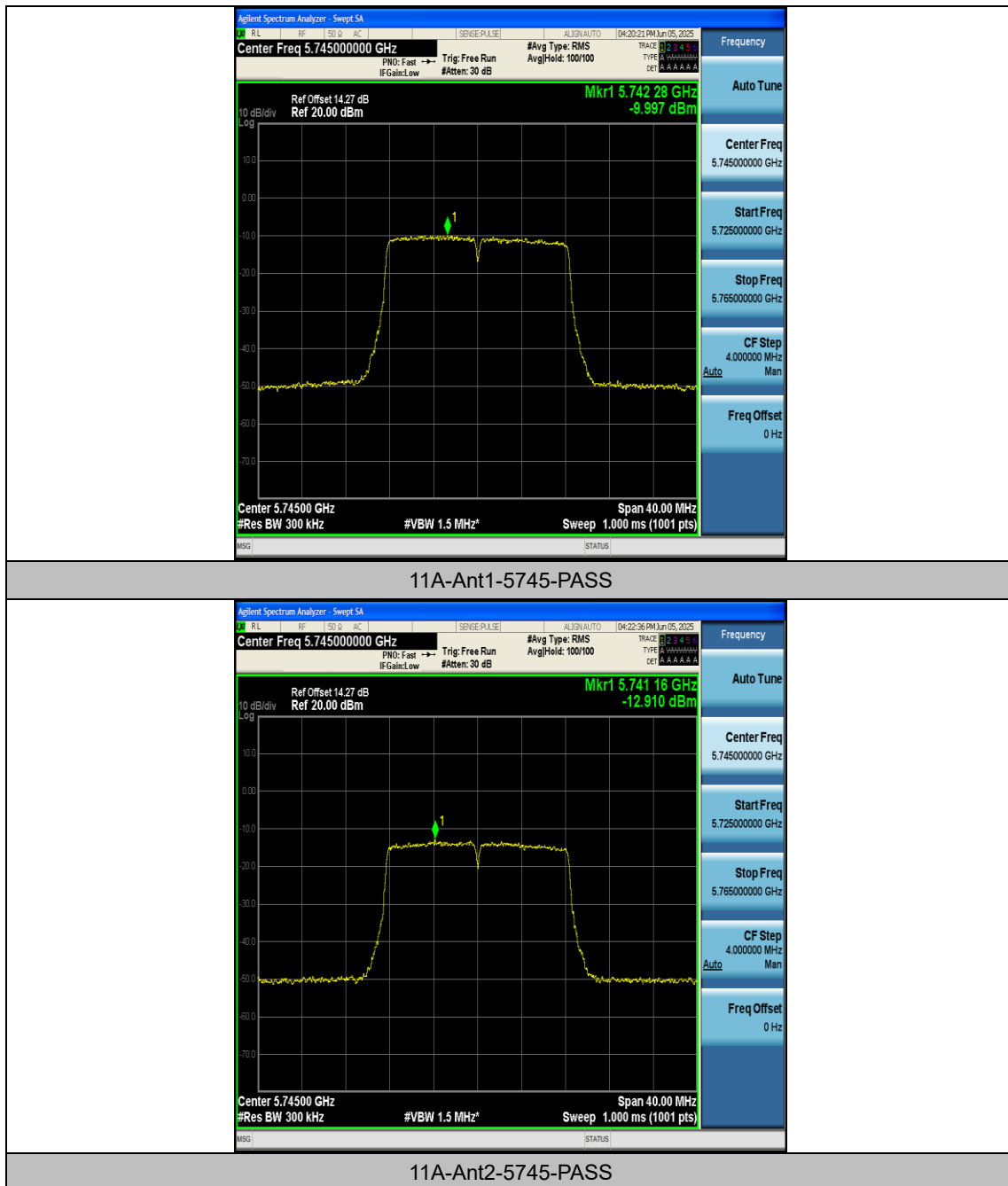
Appendix C: Maximum power spectral density

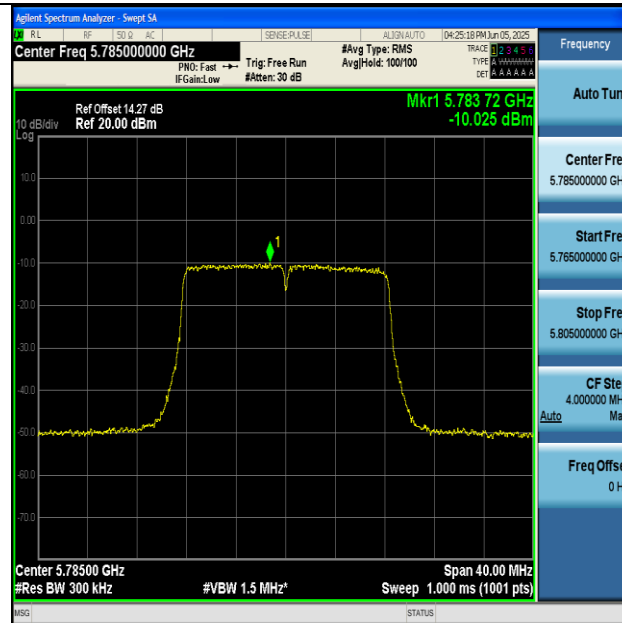
Test Result

Frequency [MHz]	Test Mode	Antenna	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
5745	11A	Ant1	-10.00	≤30.00	PASS
5745	11A	Ant2	-12.91	≤30.00	PASS
5785	11A	Ant1	-10.03	≤30.00	PASS
5785	11A	Ant2	-12.58	≤30.00	PASS
5825	11A	Ant1	-11.34	≤30.00	PASS
5825	11A	Ant2	-11.08	≤30.00	PASS
5745	11N20MIMO	Ant1	-12.08	≤30.00	PASS
5745	11N20MIMO	Ant2	-14.78	≤30.00	PASS
5745	11N20MIMO	total	-10.21	≤29.60	PASS
5785	11N20MIMO	Ant1	-11.41	≤30.00	PASS
5785	11N20MIMO	Ant2	-14.24	≤30.00	PASS
5785	11N20MIMO	total	-9.59	≤29.60	PASS
5825	11N20MIMO	Ant1	-12.66	≤30.00	PASS
5825	11N20MIMO	Ant2	-12.27	≤30.00	PASS
5825	11N20MIMO	total	-9.45	≤29.60	PASS
5745	11AC20MIMO	Ant1	-11.20	≤30.00	PASS
5745	11AC20MIMO	Ant2	-13.70	≤30.00	PASS
5745	11AC20MIMO	total	-9.26	≤29.60	PASS
5785	11AC20MIMO	Ant1	-10.92	≤30.00	PASS
5785	11AC20MIMO	Ant2	-13.49	≤30.00	PASS
5785	11AC20MIMO	total	-9.01	≤29.60	PASS
5825	11AC20MIMO	Ant1	-12.13	≤30.00	PASS
5825	11AC20MIMO	Ant2	-12.24	≤30.00	PASS
5825	11AC20MIMO	total	-9.17	≤29.60	PASS

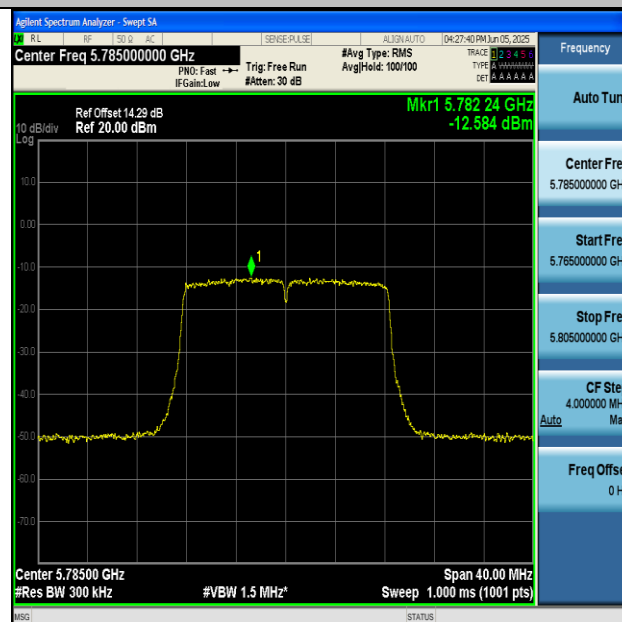
Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB) + RB Factor(dB)

Test Graphs





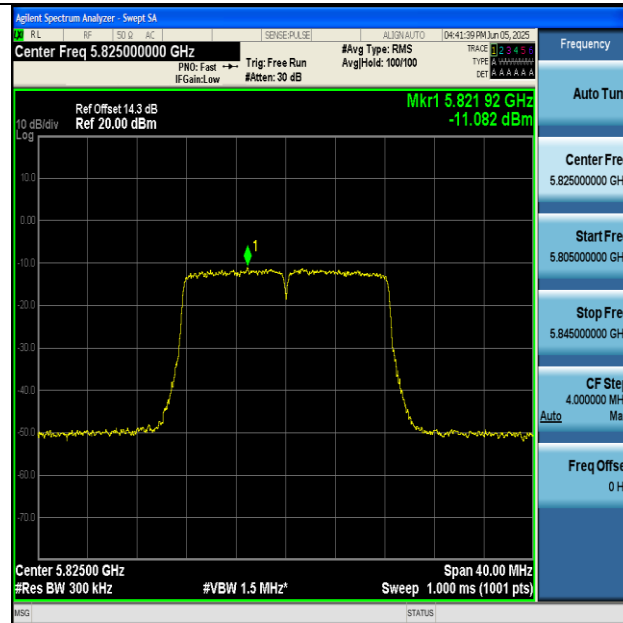
11A-Ant1-5785-PASS



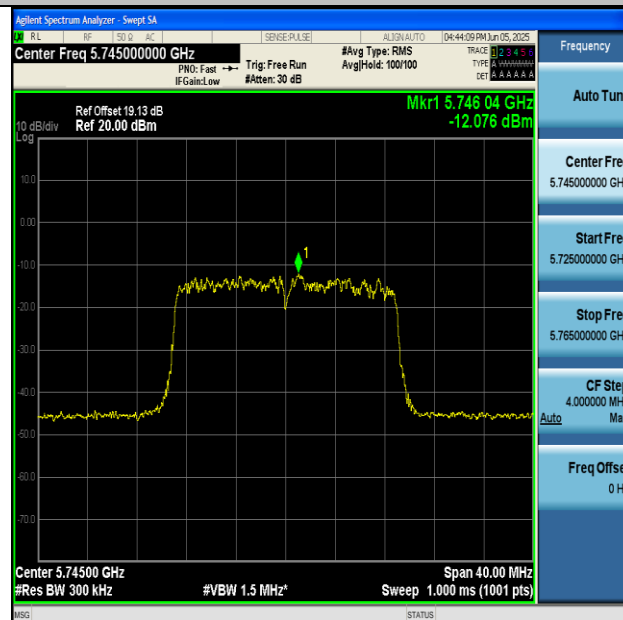
11A-Ant2-5785-PASS



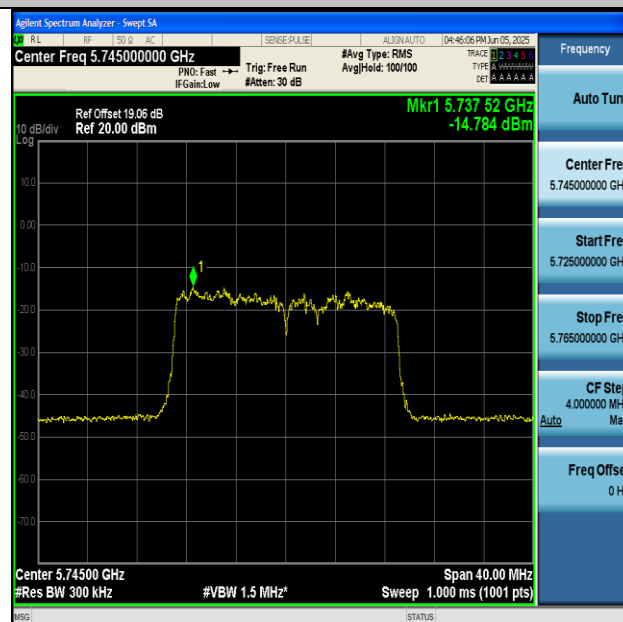
11A-Ant1-5825-PASS



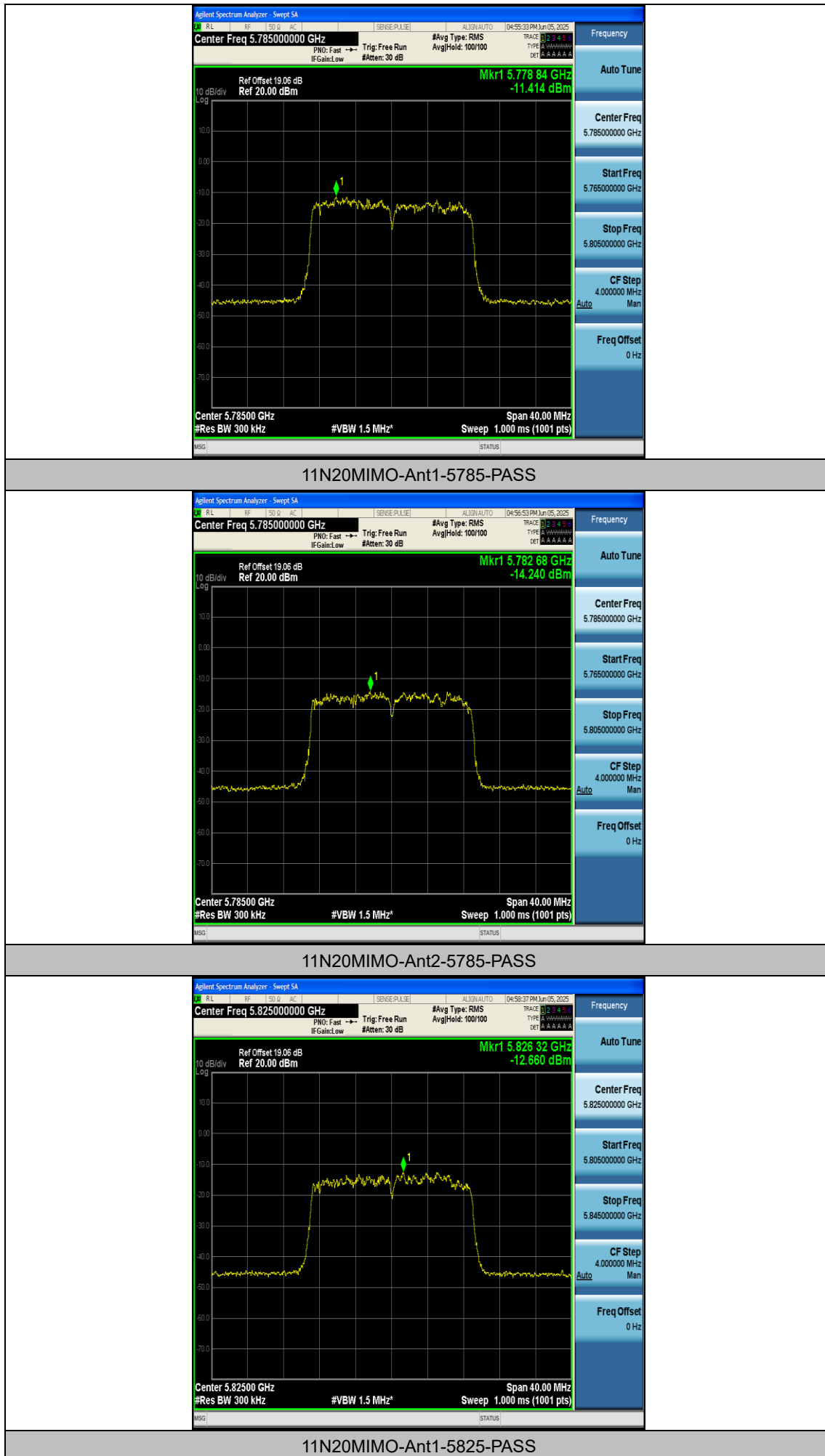
11A-Ant2-5825-PASS

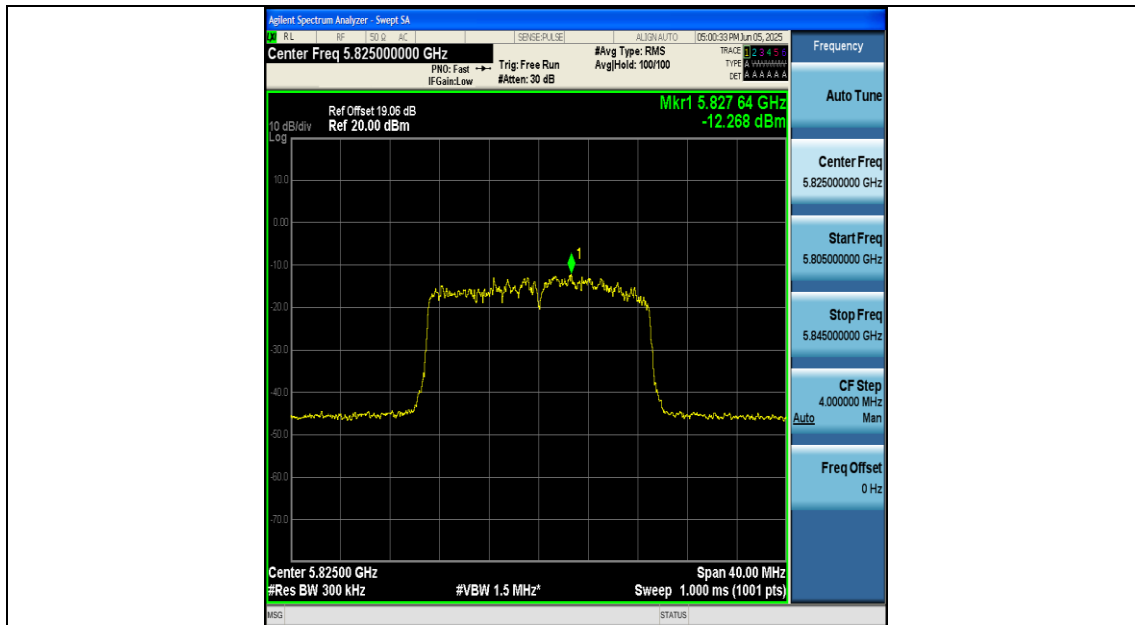


11N20MIMO-Ant1-5745-PASS

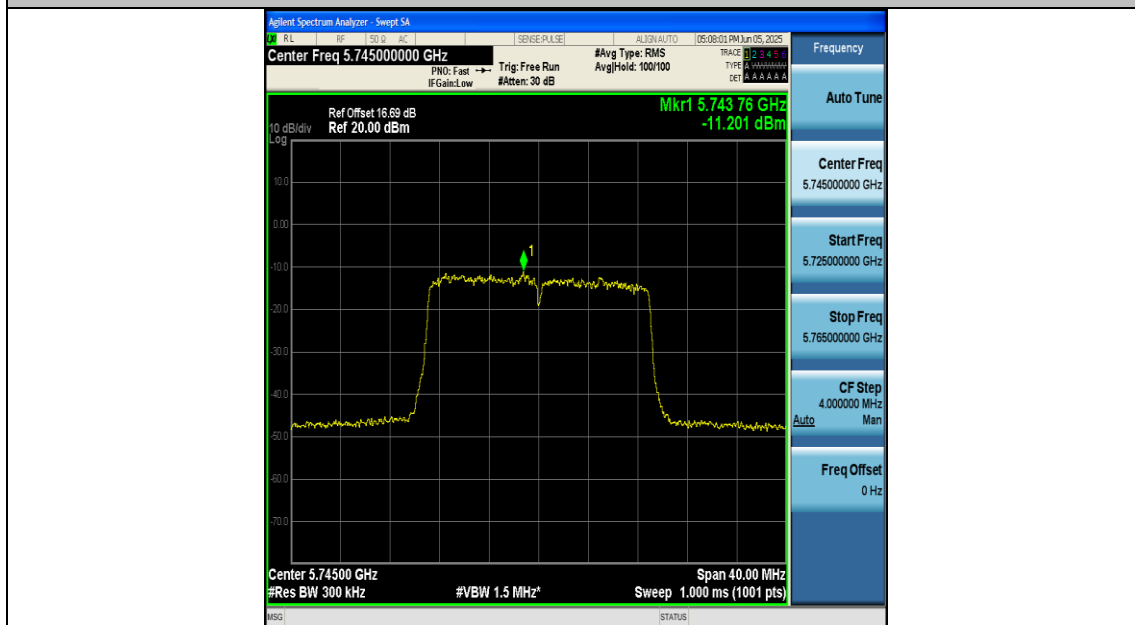


11N20MIMO-Ant2-5745-PASS

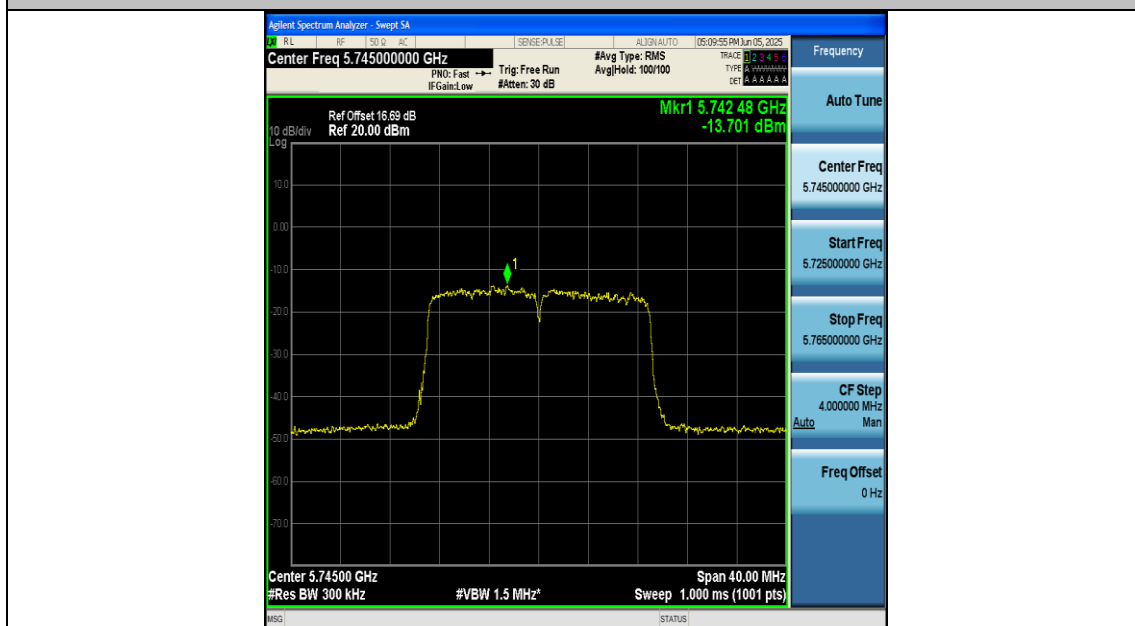




11N20MIMO-Ant2-5825-PASS



11AC20MIMO-Ant1-5745-PASS



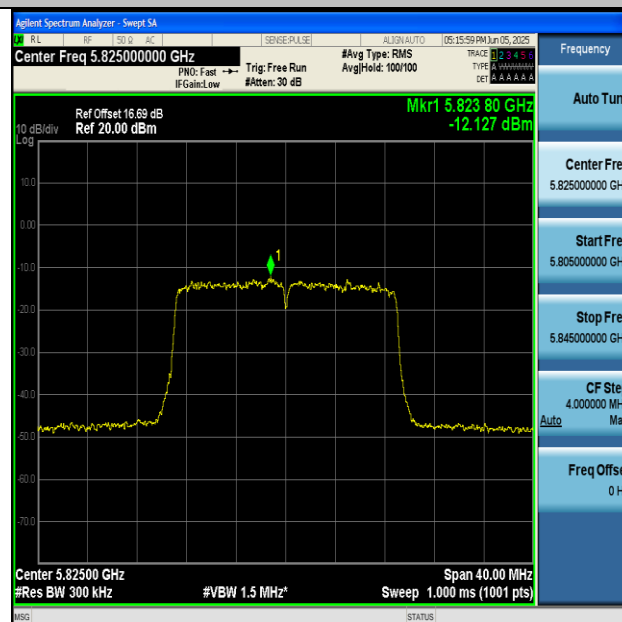
11AC20MIMO-Ant2-5745-PASS



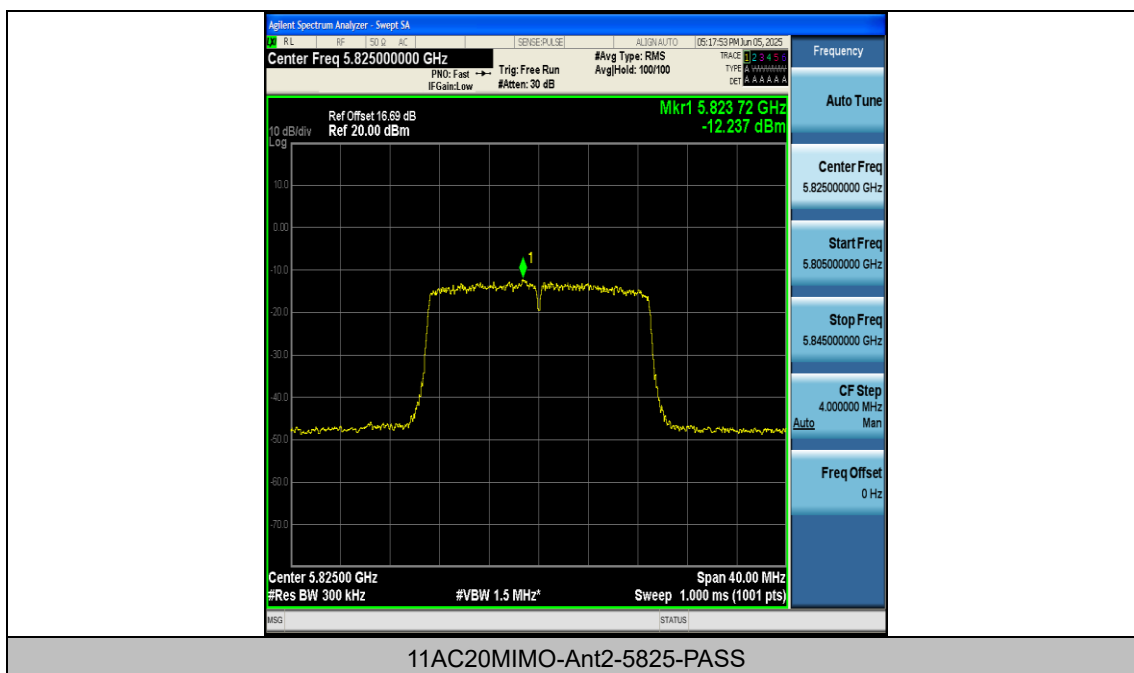
11AC20MIMO-Ant1-5785-PASS



11AC20MIMO-Ant2-5785-PASS



11AC20MIMO-Ant1-5825-PASS



Appendix D: Band edge measurements

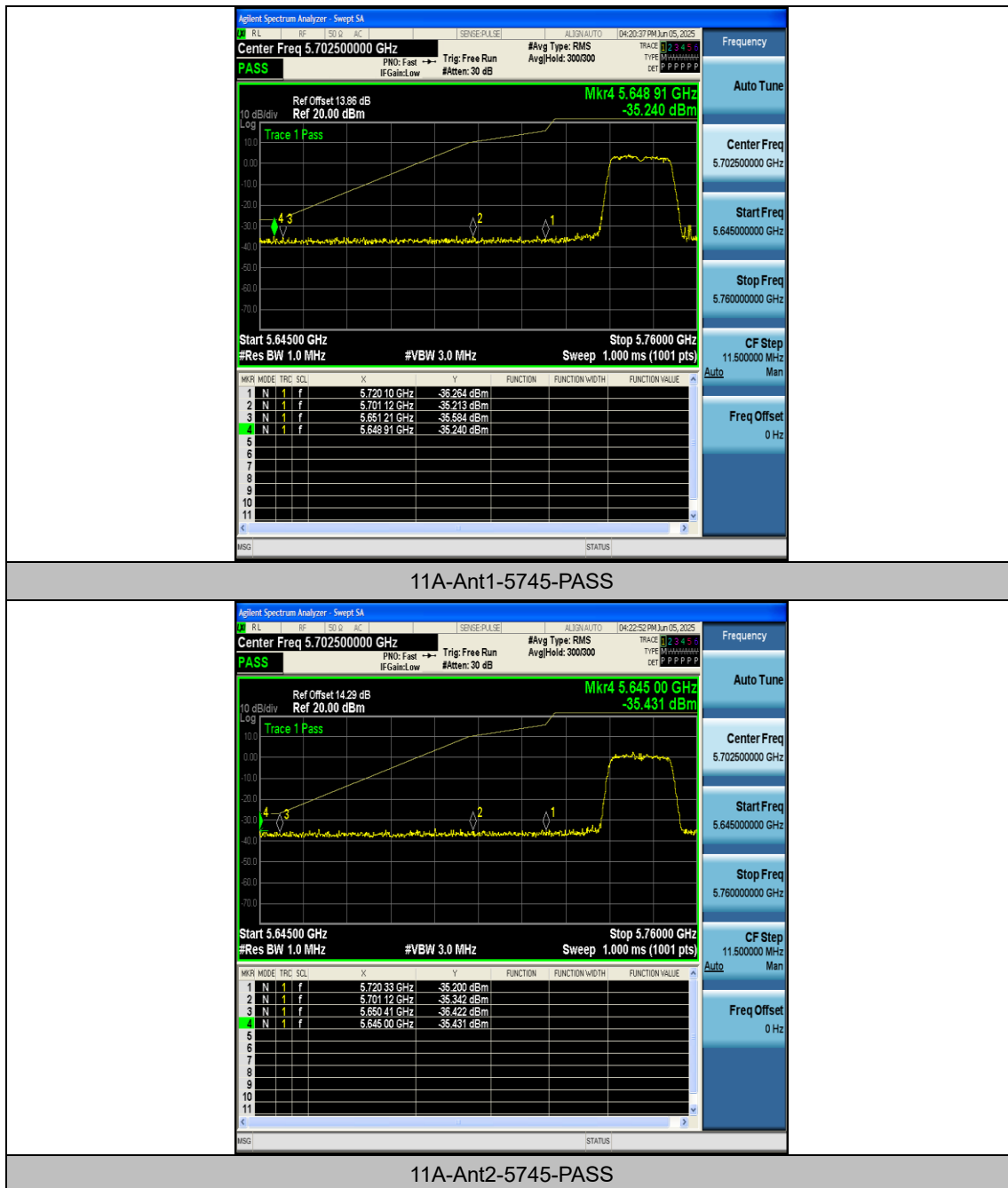
Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Freq. Range [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-36.26	≤15.82	PASS
11A	Ant1	Low	5745	5700~5720	-35.21	≤10.31	PASS
11A	Ant1	Low	5745	5650~5700	-35.58	≤-26.10	PASS
11A	Ant1	Low	5745	5760~5650	-35.24	≤-27	PASS
11A	Ant2	Low	5745	5720~5725	-35.2	≤16.34	PASS
11A	Ant2	Low	5745	5700~5720	-35.34	≤10.31	PASS
11A	Ant2	Low	5745	5650~5700	-36.42	≤-26.70	PASS
11A	Ant2	Low	5745	5760~5650	-35.43	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-34.49	≤15.73	PASS
11A	Ant1	High	5825	5855~5875	-34.4	≤10.17	PASS
11A	Ant1	High	5825	5875~5925	-34.26	≤-26.11	PASS
11A	Ant1	High	5825	5925~5935	-35.09	≤-27	PASS
11A	Ant2	High	5825	5850~5855	-36.03	≤16.65	PASS
11A	Ant2	High	5825	5855~5875	-33.58	≤10.29	PASS
11A	Ant2	High	5825	5875~5925	-35.78	≤-26.71	PASS
11A	Ant2	High	5825	5925~5935	-35.25	≤-27	PASS
11N20MI MO	Ant1	Low	5745	5720~5725	-37.37	≤15.82	PASS
11N20MI MO	Ant1	Low	5745	5700~5720	-35.92	≤10.02	PASS
11N20MI MO	Ant1	Low	5745	5650~5700	-36.92	≤-26.96	PASS
11N20MI MO	Ant1	Low	5745	5760~5650	-36.07	≤-27	PASS
11N20MI MO	Ant2	Low	5745	5720~5725	-37	≤15.82	PASS
11N20MI MO	Ant2	Low	5745	5700~5720	-33.24	≤10.18	PASS
11N20MI MO	Ant2	Low	5745	5650~5700	-36.49	≤-26.96	PASS
11N20MI MO	Ant2	Low	5745	5760~5650	-35.2	≤-27	PASS
11N20MI MO	Ant1	High	5825	5850~5855	-36.56	≤15.73	PASS
11N20MI MO	Ant1	High	5825	5855~5875	-34.48	≤10.36	PASS
11N20MI MO	Ant1	High	5825	5875~5925	-35.62	≤-26.81	PASS
11N20MI MO	Ant1	High	5825	5925~5935	-34.83	≤-27	PASS
11N20MI	Ant2	High	5825	5850~5855	-35.86	≤15.73	PASS

MO							
11N20MI MO	Ant2	High	5825	5855~5875	-34.46	≤10.93	PASS
11N20MI MO	Ant2	High	5825	5875~5925	-35.17	≤-26.71	PASS
11N20MI MO	Ant2	High	5825	5925~5935	-35.26	≤-27	PASS
11AC20M IMO	Ant1	Low	5745	5720~5725	-35.86	≤15.82	PASS
11AC20M IMO	Ant1	Low	5745	5700~5720	-35.96	≤10.38	PASS
11AC20M IMO	Ant1	Low	5745	5650~5700	-36	≤-26.02	PASS
11AC20M IMO	Ant1	Low	5745	5760~5650	-35.39	≤-27	PASS
11AC20M IMO	Ant2	Low	5745	5720~5725	-36.69	≤16.08	PASS
11AC20M IMO	Ant2	Low	5745	5700~5720	-35.66	≤10.06	PASS
11AC20M IMO	Ant2	Low	5745	5650~5700	-36.16	≤-26.19	PASS
11AC20M IMO	Ant2	Low	5745	5760~5650	-34.75	≤-27	PASS
11AC20M IMO	Ant1	High	5825	5850~5855	-34.55	≤16.03	PASS
11AC20M IMO	Ant1	High	5825	5855~5875	-35.48	≤10.63	PASS
11AC20M IMO	Ant1	High	5825	5875~5925	-36.26	≤-26.51	PASS
11AC20M IMO	Ant1	High	5825	5925~5935	-35.18	≤-27	PASS
11AC20M IMO	Ant2	High	5825	5850~5855	-35.93	≤16.34	PASS
11AC20M IMO	Ant2	High	5825	5855~5875	-35.07	≤10.97	PASS
11AC20M IMO	Ant2	High	5825	5875~5925	-35.42	≤-26.71	PASS
11AC20M IMO	Ant2	High	5825	5925~5935	-34.59	≤-27	PASS

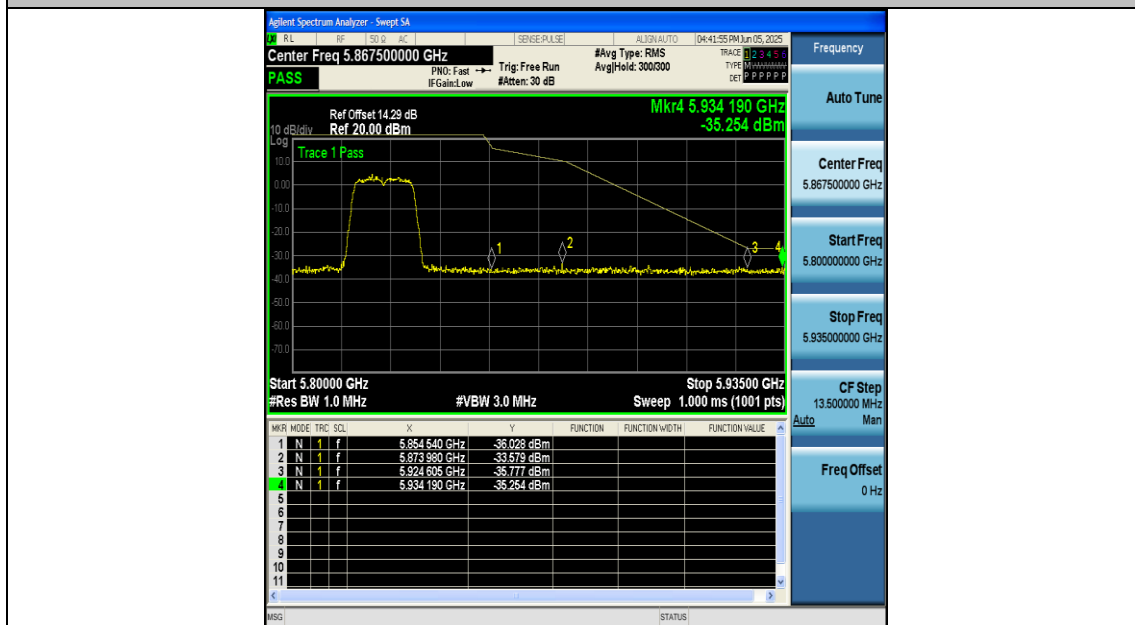
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

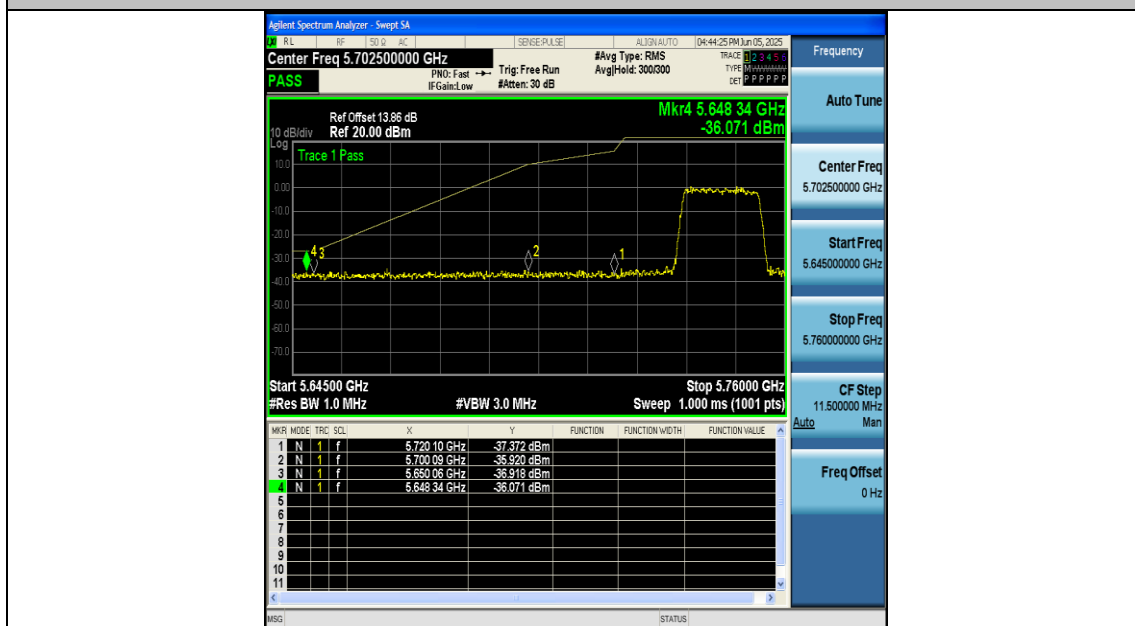




11A-Ant1-5825-PASS



11A-Ant2-5825-PASS



11N20MIMO-Ant1-5745-PASS