



Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: laptop

Test Model: FZTK142

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan





E.1 6dB bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.800	5736.080	5753.880	0.5	PASS
		5785	17.800	5776.080	5793.880	0.5	PASS
		5825	17.760	5816.120	5833.880	0.5	PASS
11N20SISO	Ant1	5745	17.800	5736.080	5753.880	0.5	PASS
		5785	17.800	5776.080	5793.880	0.5	PASS
		5825	17.800	5816.080	5833.880	0.5	PASS
11N40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC20SISO	Ant1	5745	17.800	5736.080	5753.880	0.5	PASS
		5785	17.760	5776.120	5793.880	0.5	PASS
		5825	17.800	5816.080	5833.880	0.5	PASS
11AC40SISO	Ant1	5755	36.560	5736.680	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC80SISO	Ant1	5775	76.480	5736.760	5813.240	0.5	PASS





Test Graphs

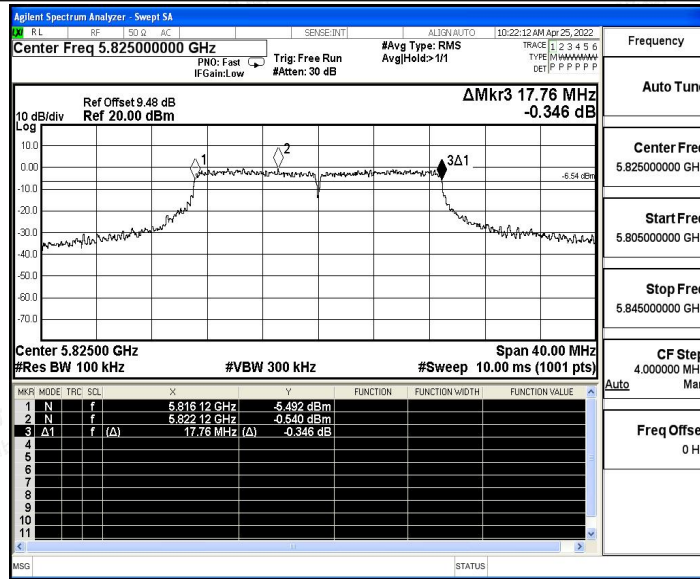


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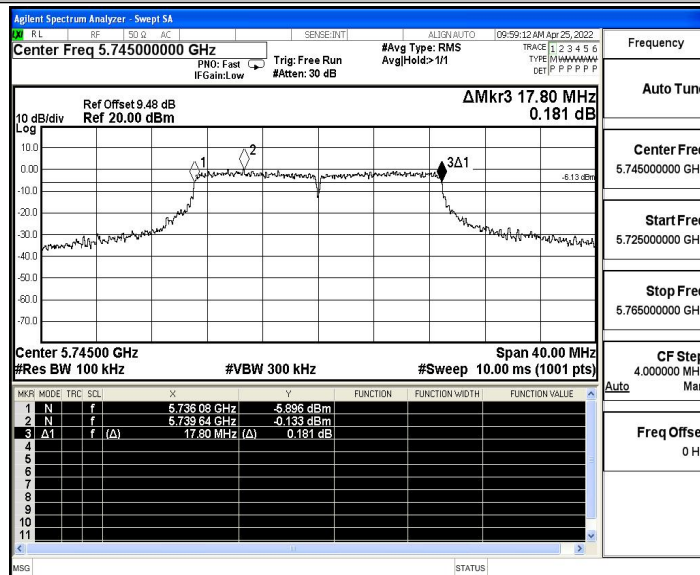
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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

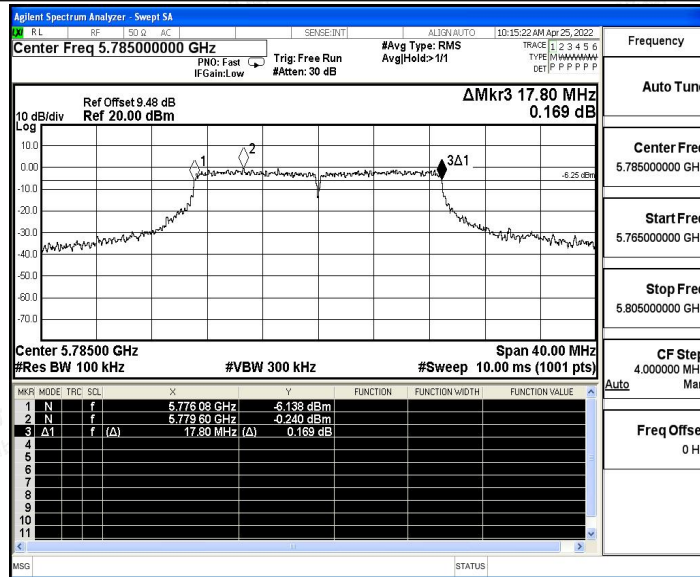


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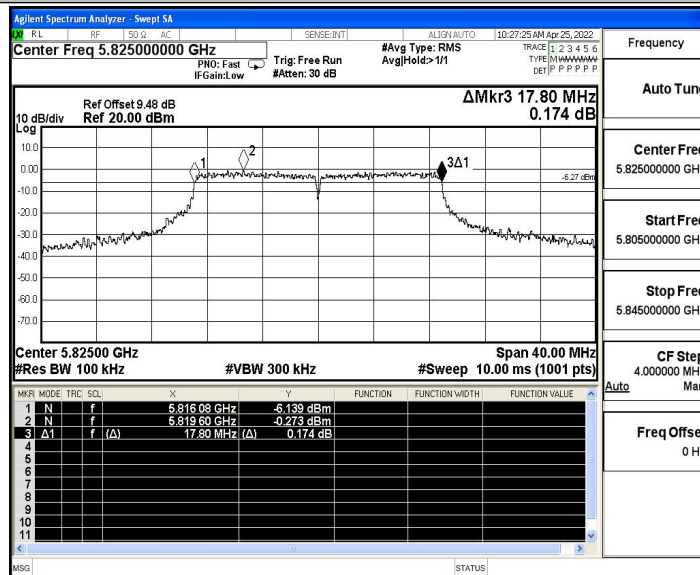
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

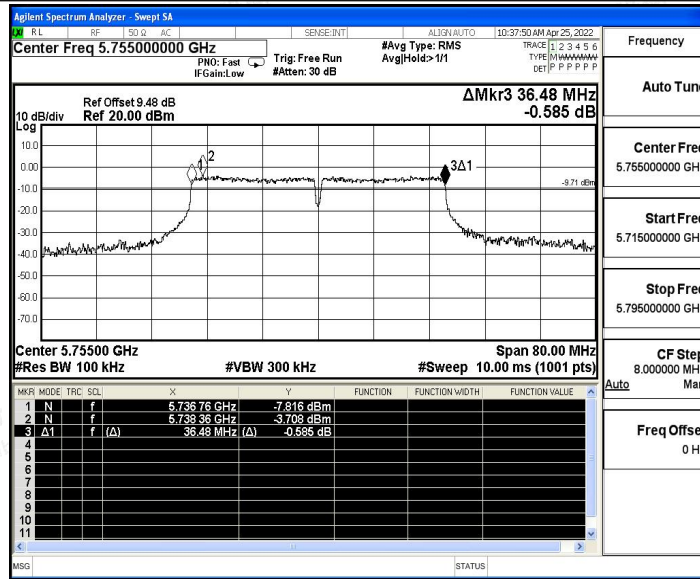


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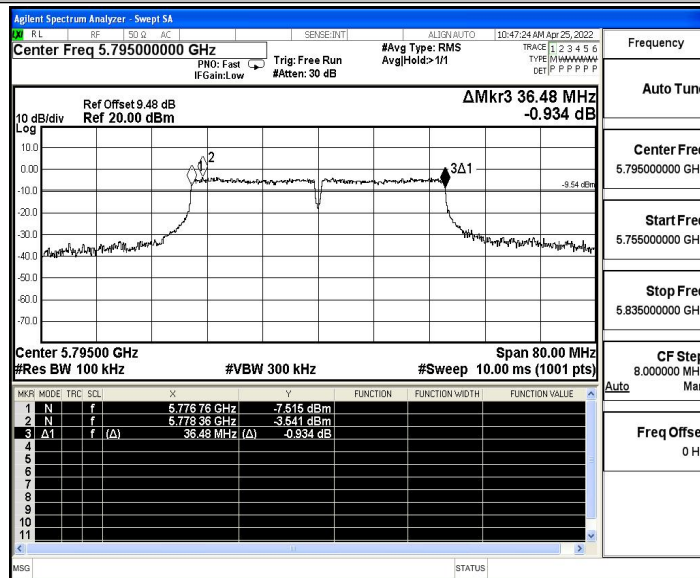
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

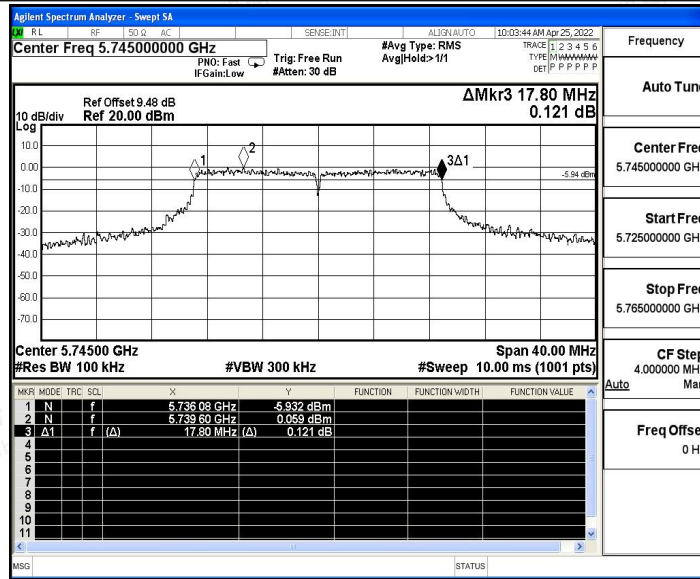


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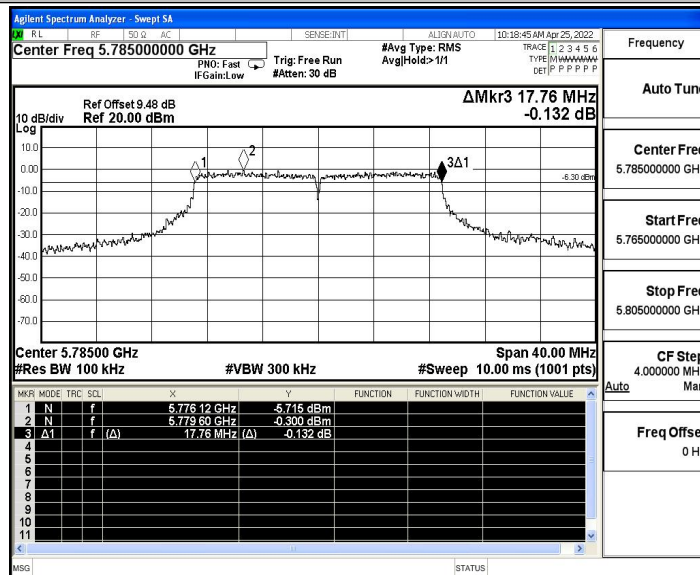
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

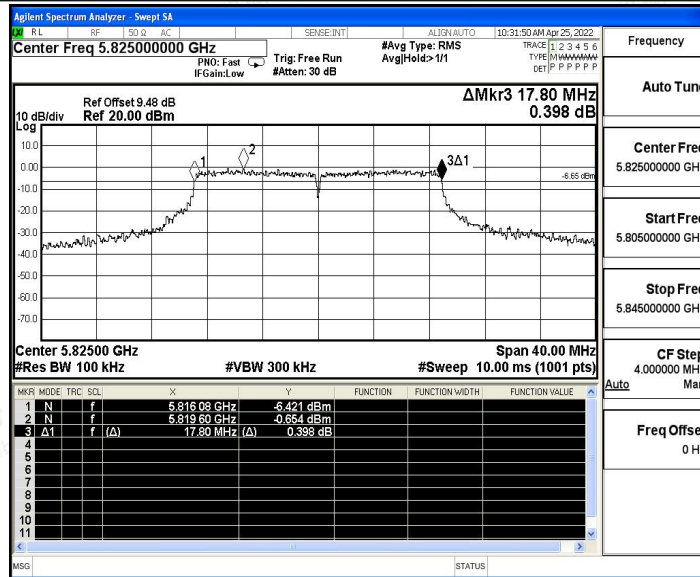


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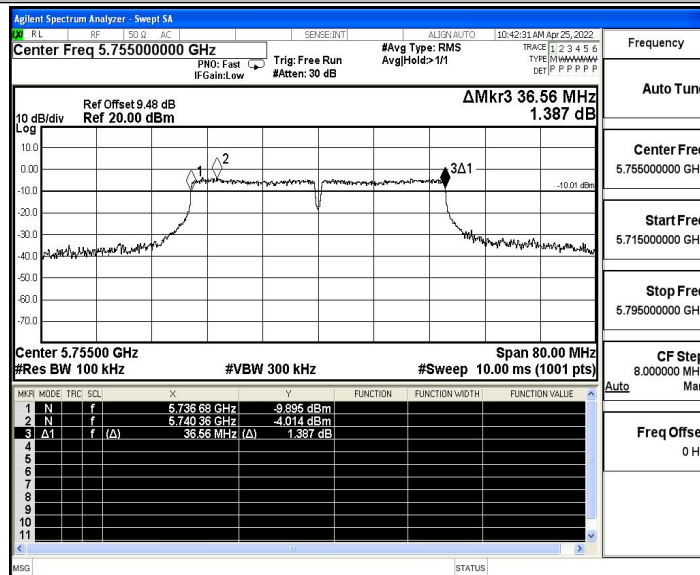
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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

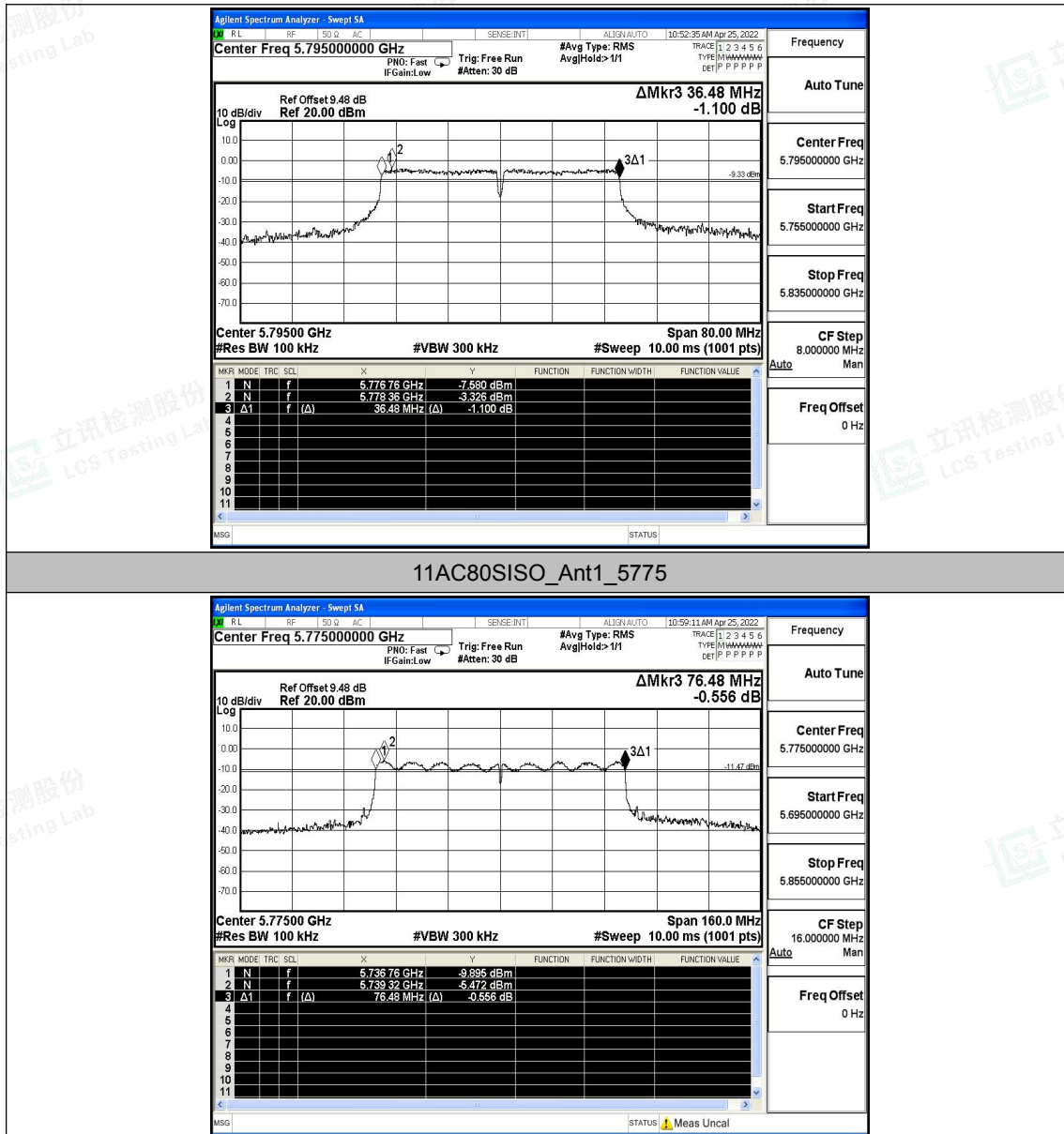


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E.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	13.80	≤30.00	PASS
		5785	13.52	≤30.00	PASS
		5825	13.52	≤30.00	PASS
11N20SISO	Ant1	5745	13.71	≤30.00	PASS
		5785	13.47	≤30.00	PASS
		5825	13.51	≤30.00	PASS
11N40SISO	Ant1	5755	13.30	≤30.00	PASS
		5795	13.63	≤30.00	PASS
11AC20SISO	Ant1	5745	13.80	≤30.00	PASS
		5785	13.49	≤30.00	PASS
		5825	13.54	≤30.00	PASS
11AC40SISO	Ant1	5755	13.26	≤30.00	PASS
		5795	13.63	≤30.00	PASS
11AC80SISO	Ant1	5775	12.97	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.





E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
11A	Ant1	5745	-0.65	≤ 30.00	PASS
		5785	-0.99	≤ 30.00	PASS
		5825	-0.99	≤ 30.00	PASS
11N20SISO	Ant1	5745	-0.72	≤ 30.00	PASS
		5785	-1.06	≤ 30.00	PASS
		5825	-0.98	≤ 30.00	PASS
11N40SISO	Ant1	5755	-4.13	≤ 30.00	PASS
		5795	-3.97	≤ 30.00	PASS
11AC20SISO	Ant1	5745	-0.67	≤ 30.00	PASS
		5785	-1.01	≤ 30.00	PASS
		5825	-0.94	≤ 30.00	PASS
11AC40SISO	Ant1	5755	-4.17	≤ 30.00	PASS
		5795	-3.89	≤ 30.00	PASS
11AC80SISO	Ant1	5775	-6.35	≤ 30.00	PASS

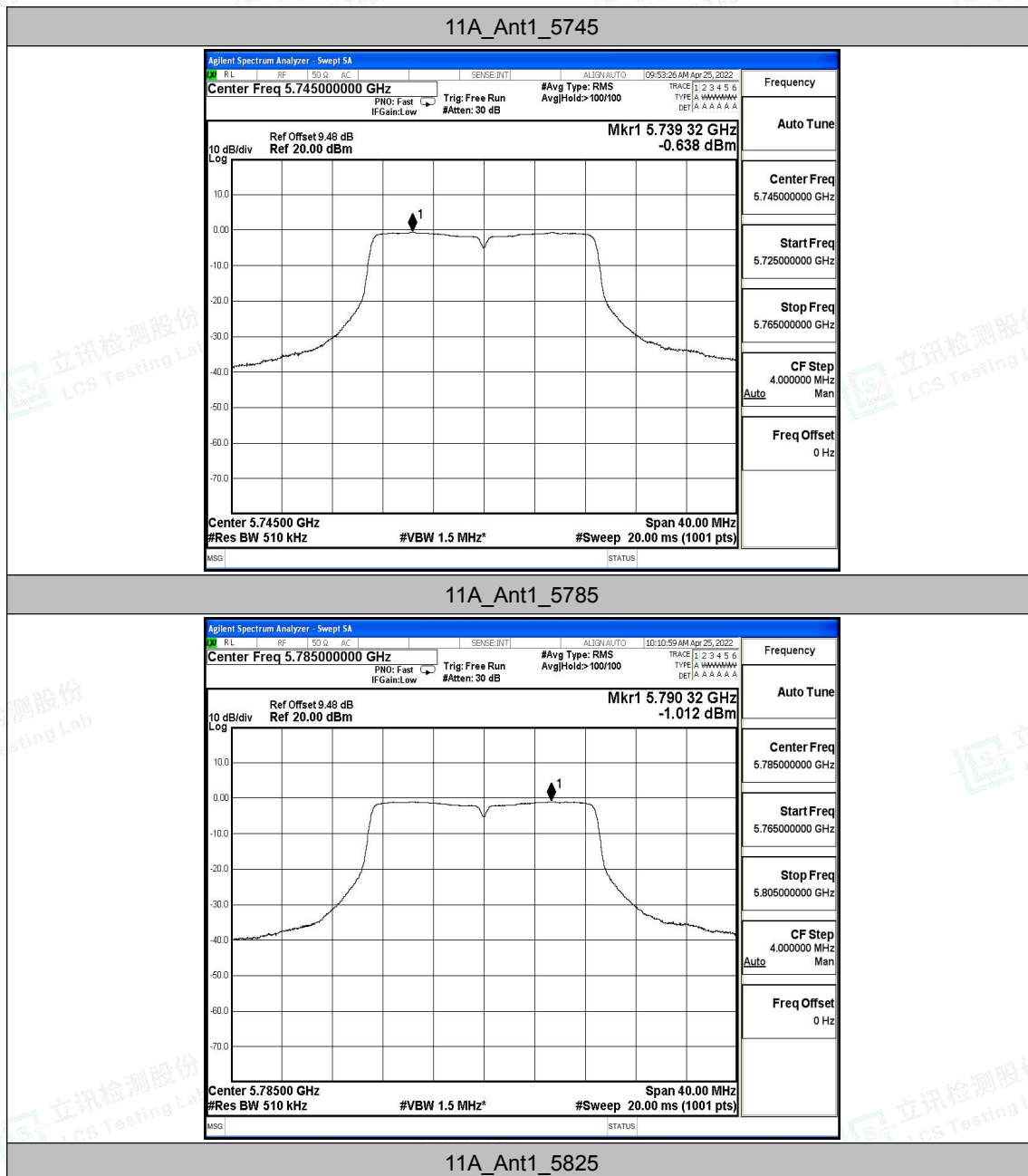
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

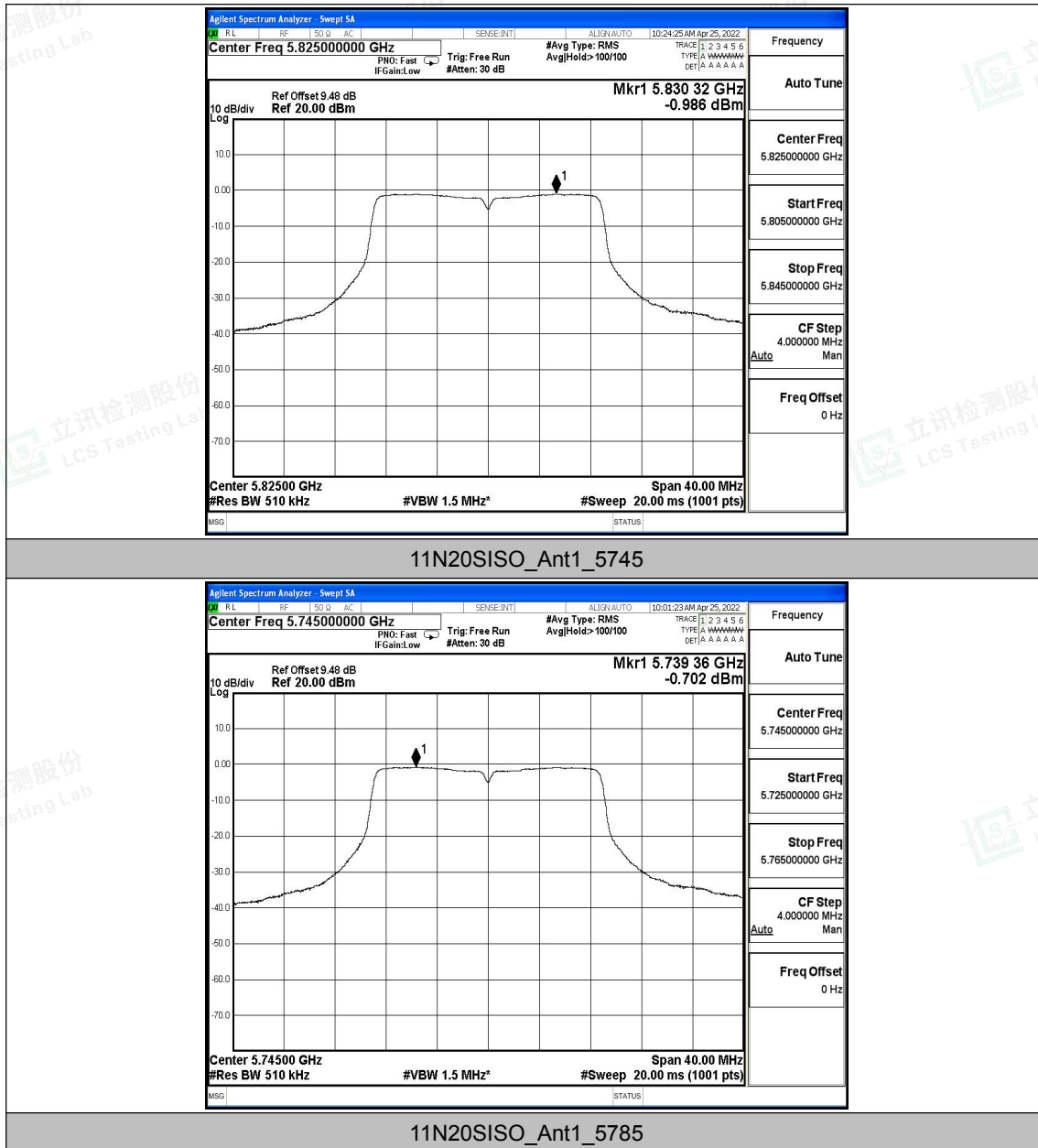
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

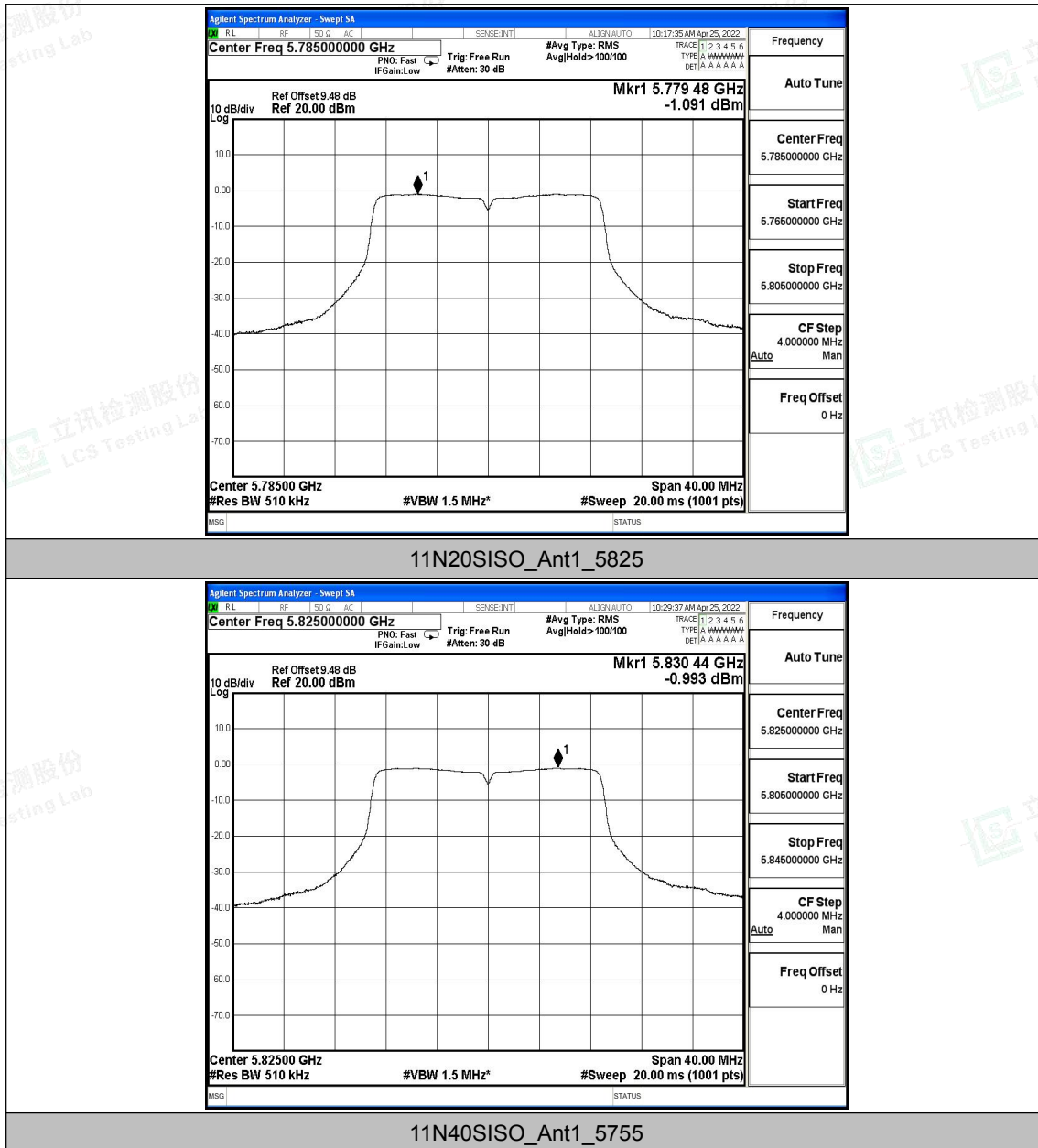


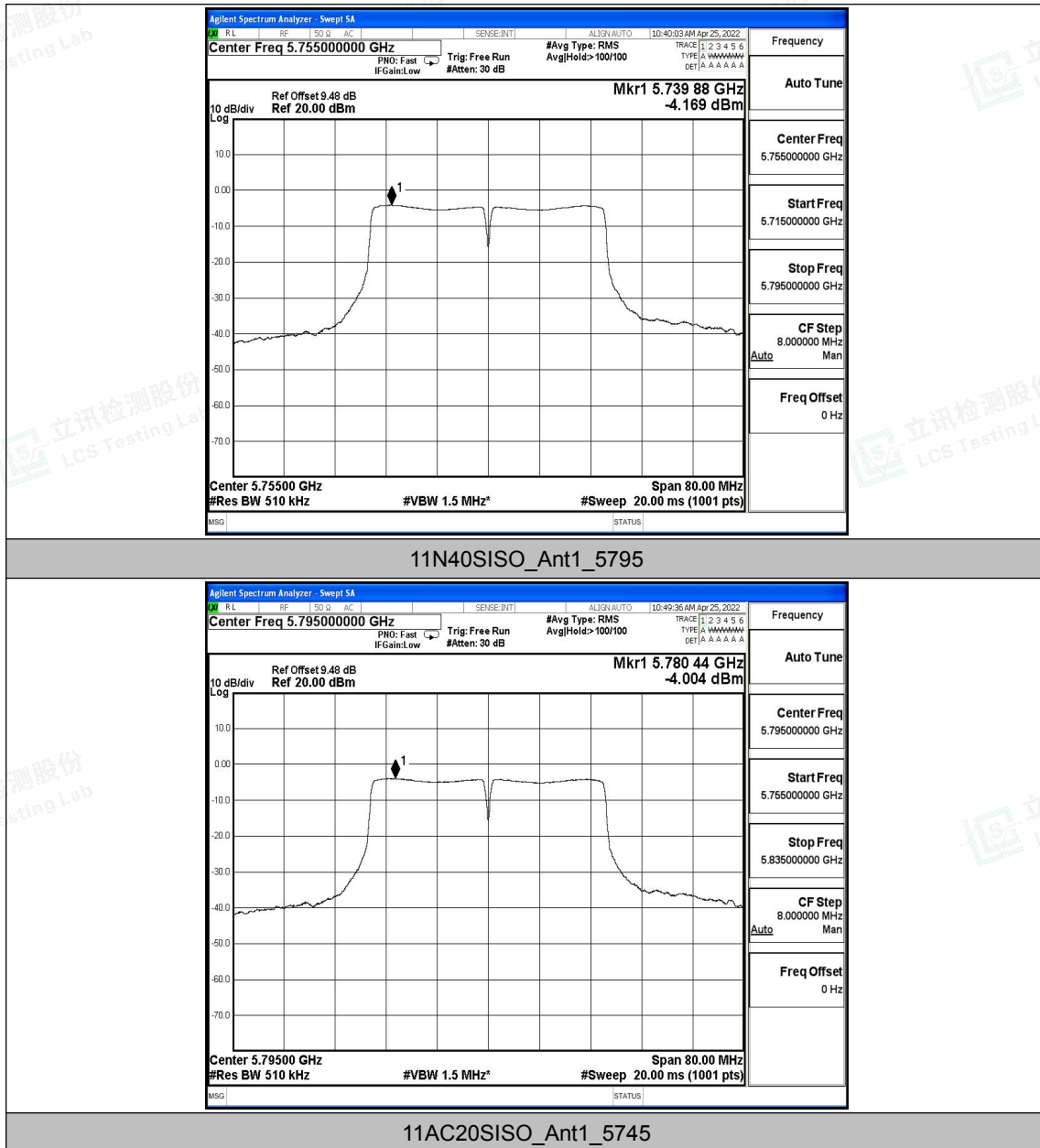


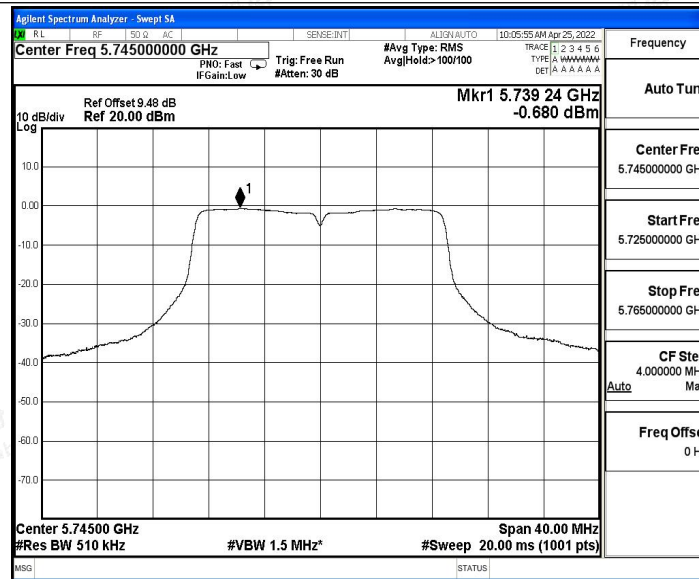
Test Graphs



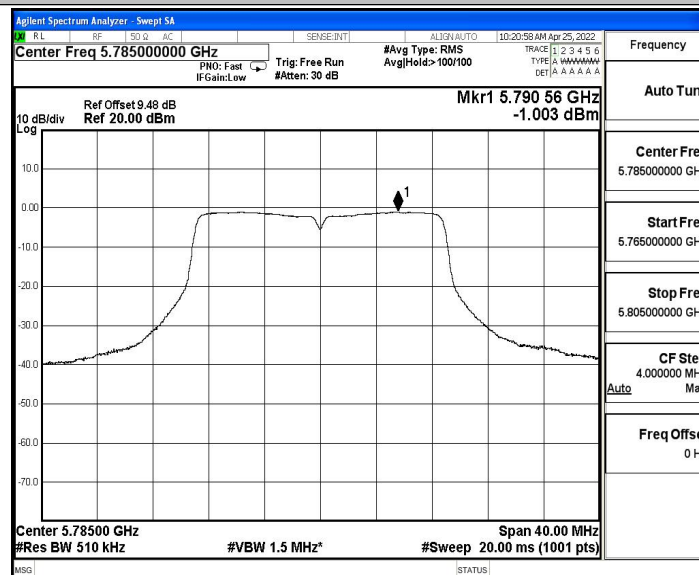






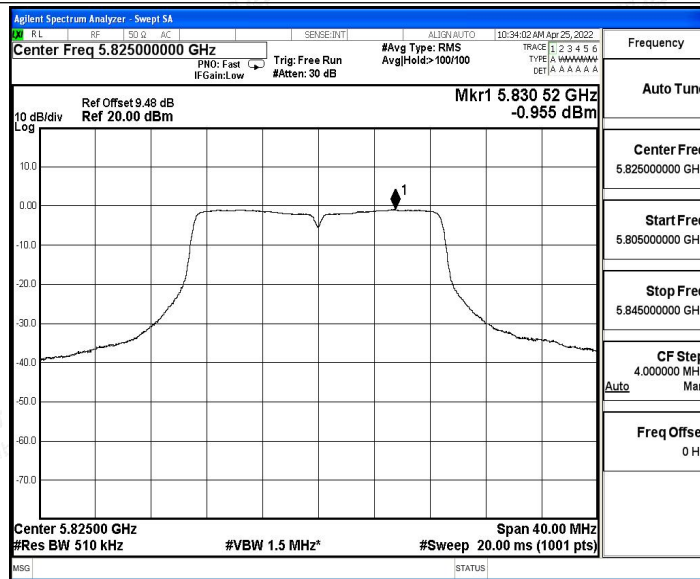


11AC20SISO_Ant1_5785

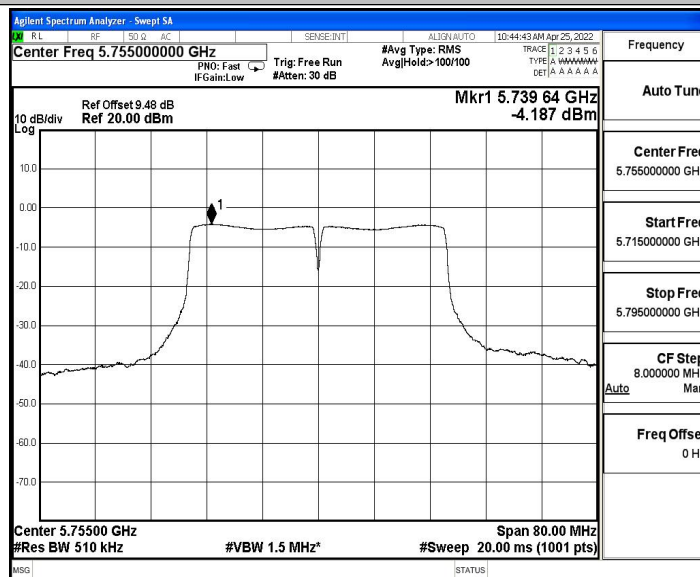


11AC20SISO_Ant1_5825



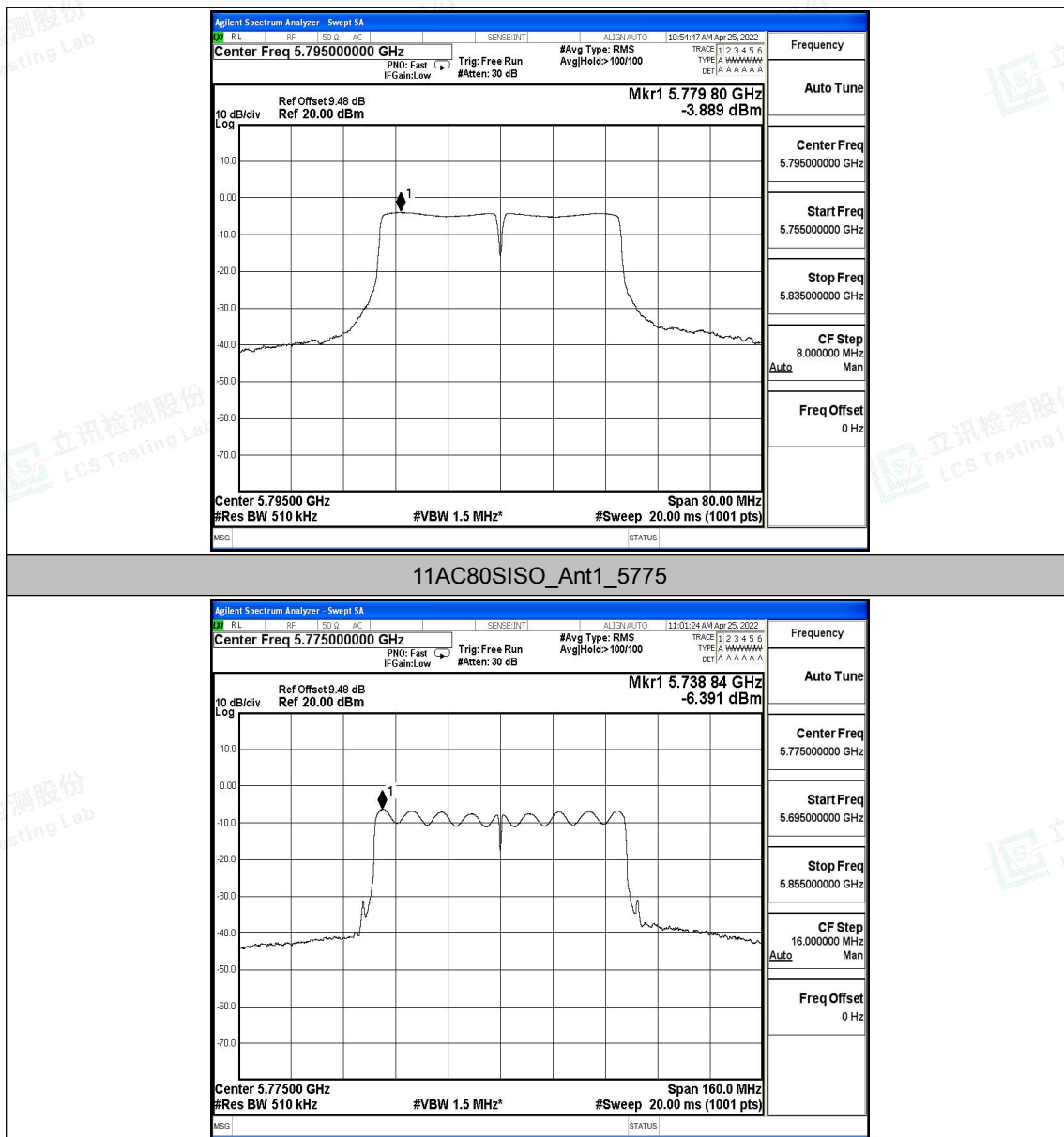


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795







E.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-39.132	≤-27.00	---	---	PASS
				Peak	5700.000	-35.47	≤10.00	---	---	PASS
				Peak	5720.000	-26.05	≤15.60	---	---	PASS
				Peak	5725.000	-15.94	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-24.557	≤27.00	---	---	PASS
				Peak	5855.000	-30.5	≤15.60	---	---	PASS
				Peak	5875.000	-38.66	≤10.00	---	---	PASS
				Peak	5925.000	-38.19	≤-27.00	---	---	PASS
11N20SIS O	Ant1	Low	5745	Peak	5650.000	-38.919	≤-27.00	---	---	PASS
				Peak	5700.000	-33.72	≤10.00	---	---	PASS
				Peak	5720.000	-26.16	≤15.60	---	---	PASS
				Peak	5725.000	-15.84	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-24.737	≤27.00	---	---	PASS
				Peak	5855.000	-30.58	≤15.60	---	---	PASS
				Peak	5875.000	-38.25	≤10.00	---	---	PASS
				Peak	5925.000	-38.44	≤-27.00	---	---	PASS
11N40SIS O	Ant1	Low	5755	Peak	5650.000	-38.046	≤-27.00	---	---	PASS
				Peak	5700.000	-30.31	≤10.00	---	---	PASS
				Peak	5720.000	-22.88	≤15.60	---	---	PASS
				Peak	5725.000	-21.98	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-33.543	≤27.00	---	---	PASS
				Peak	5855.000	-34.39	≤15.60	---	---	PASS
				Peak	5875.000	-36.72	≤10.00	---	---	PASS
				Peak	5925.000	-38.49	≤-27.00	---	---	PASS
11AC20SI SO	Ant1	Low	5745	Peak	5650.000	-37.617	≤-27.00	---	---	PASS
				Peak	5700.000	-35.74	≤10.00	---	---	PASS
				Peak	5720.000	-26.45	≤15.60	---	---	PASS
				Peak	5725.000	-16.54	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-23.998	≤27.00	---	---	PASS
				Peak	5855.000	-31.48	≤15.60	---	---	PASS
				Peak	5875.000	-38.43	≤10.00	---	---	PASS
				Peak	5925.000	-39.06	≤-27.00	---	---	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-38.891	≤-27.00	---	---	PASS
				Peak	5700.000	-32.31	≤10.00	---	---	PASS



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		High	5795	Peak	5720.000	-22.98	≤ 15.60	---	---	PASS
				Peak	5725.000	-21.99	≤ 27.00	---	---	PASS
				Peak	5850.000	-33.97	≤ 27.00	---	---	PASS
				Peak	5855.000	-34.48	≤ 15.60	---	---	PASS
				Peak	5875.000	-37.21	≤ 10.00	---	---	PASS
				Peak	5925.000	-37.68	≤ 27.00	---	---	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-35.182	≤ 27.00	---	---	PASS
				Peak	5700.000	-26.61	≤ 10.00	---	---	PASS
				Peak	5720.000	-25.24	≤ 15.60	---	---	PASS
				Peak	5725.000	-24.22	≤ 27.00	---	---	PASS
		High	5775	Peak	5850.000	-23.567	≤ 27.00	---	---	PASS
				Peak	5855.000	-26.13	≤ 15.60	---	---	PASS
				Peak	5875.000	-27.56	≤ 10.00	---	---	PASS
				Peak	5925.000	-38.46	≤ 27.00	---	---	PASS

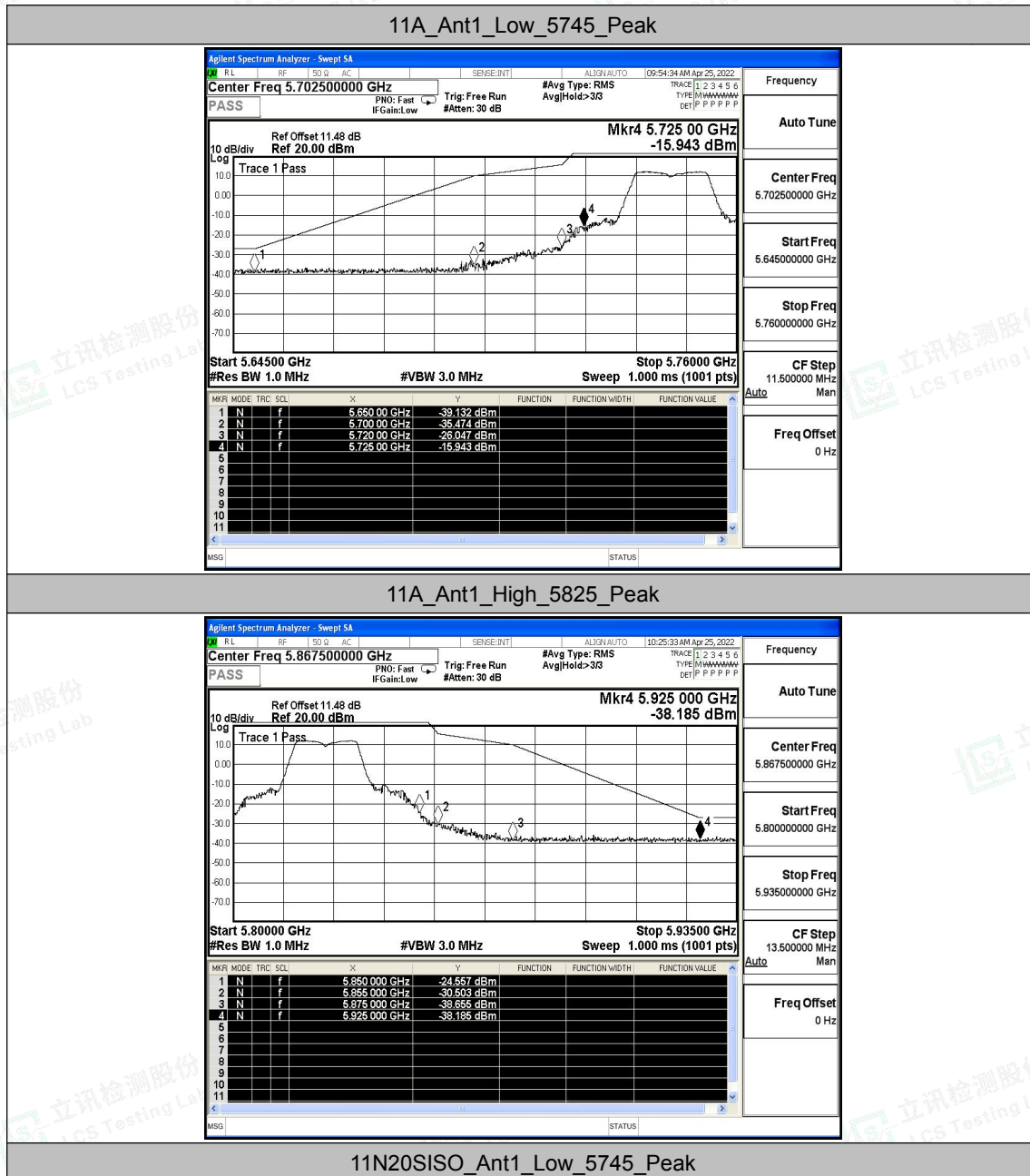
Note:

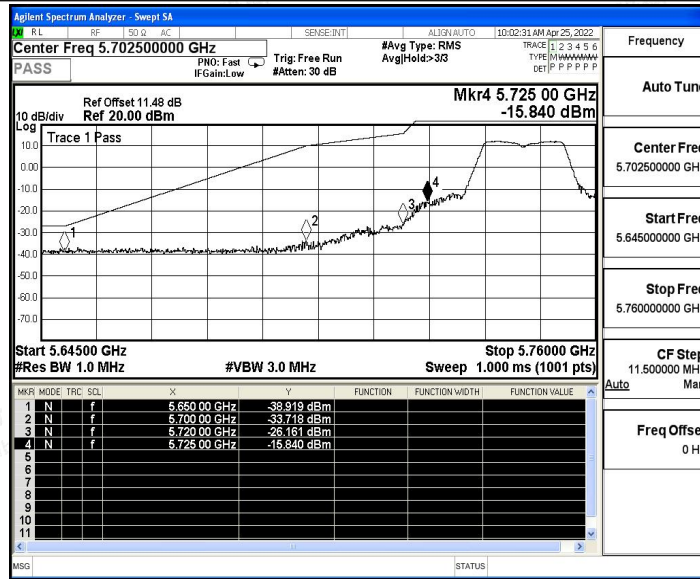
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



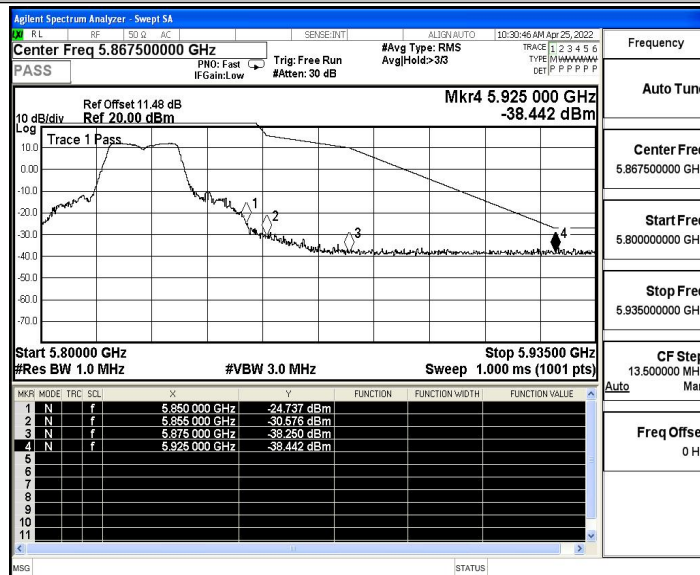


Test Graphs





11N20SISO_Ant1_High_5825_Peak



11N40SISO_Ant1_Low_5755_Peak



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