



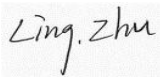
Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: IP Phone

Test Model: UCV20

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan





E.1 Min emission bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.080	5777.480	5792.560	0.5	PASS
		5825	15.080	5817.480	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.040	5777.480	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N40SISO	Ant1	5755	34.960	5737.560	5772.520	0.5	PASS
		5795	33.840	5777.480	5811.320	0.5	PASS
11AC20SISO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	33.840	5738.680	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS



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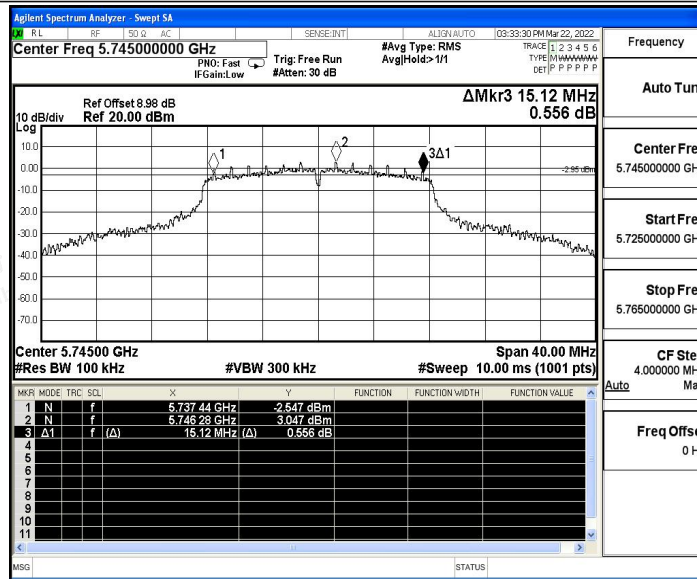
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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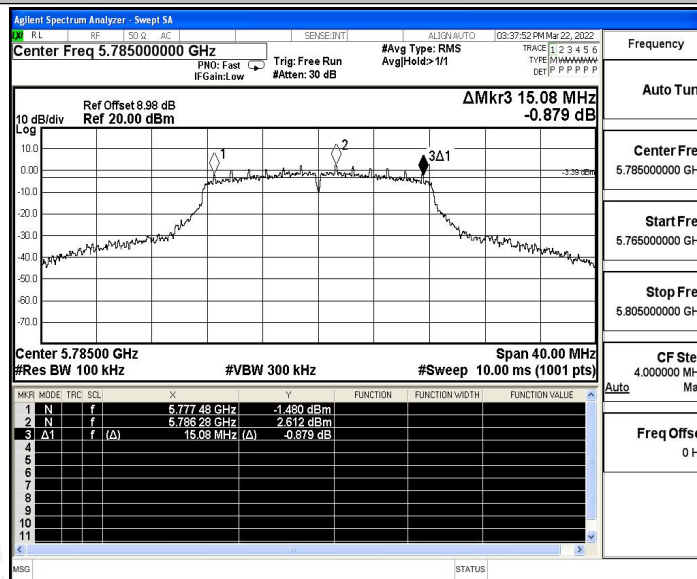


Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

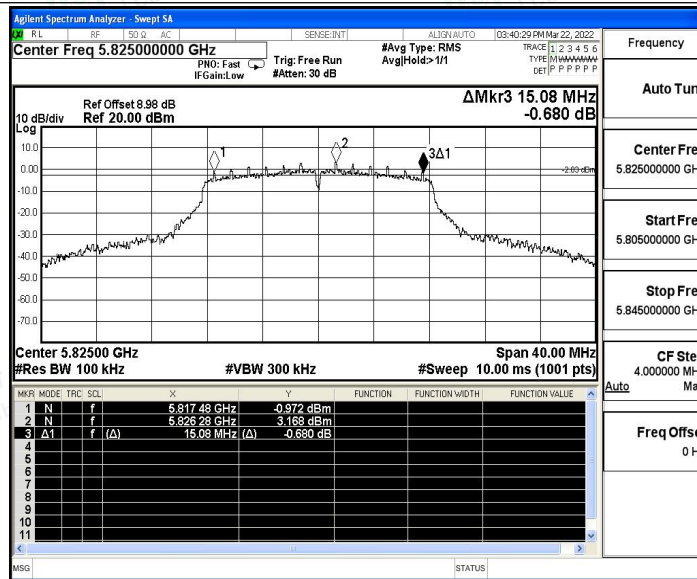


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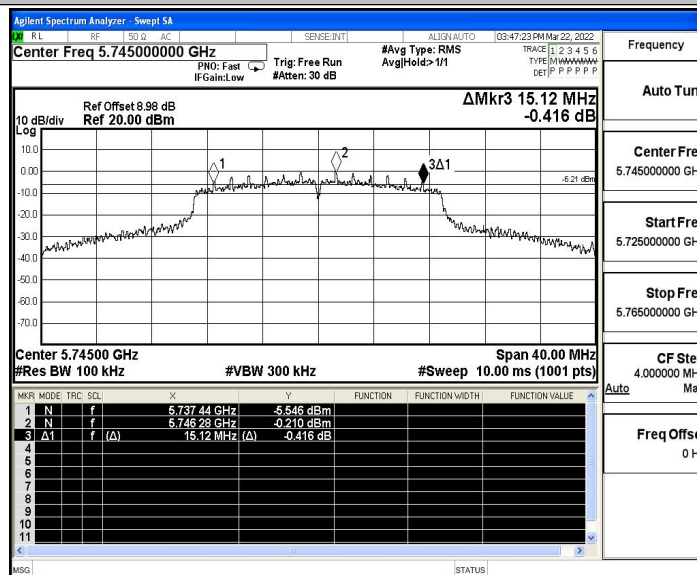
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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

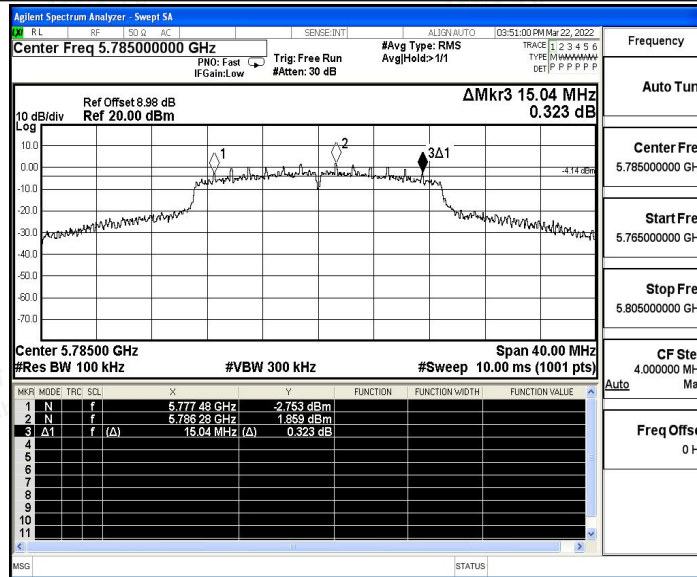


Shenzhen LCS Compliance Testing Laboratory Ltd.

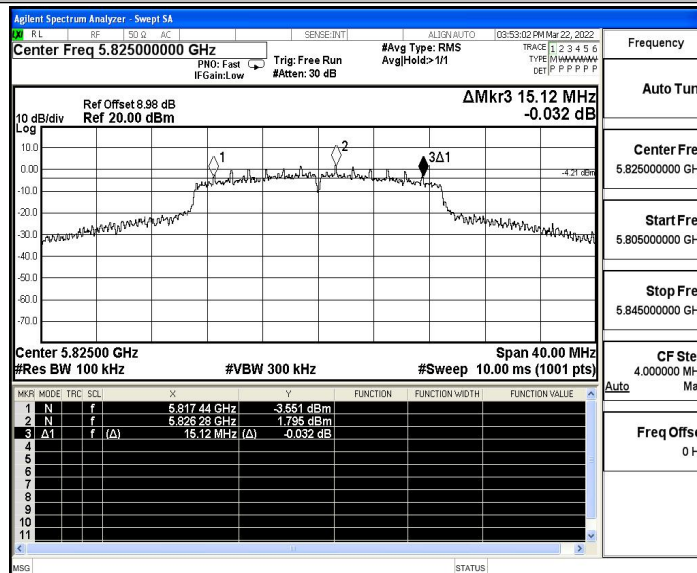
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

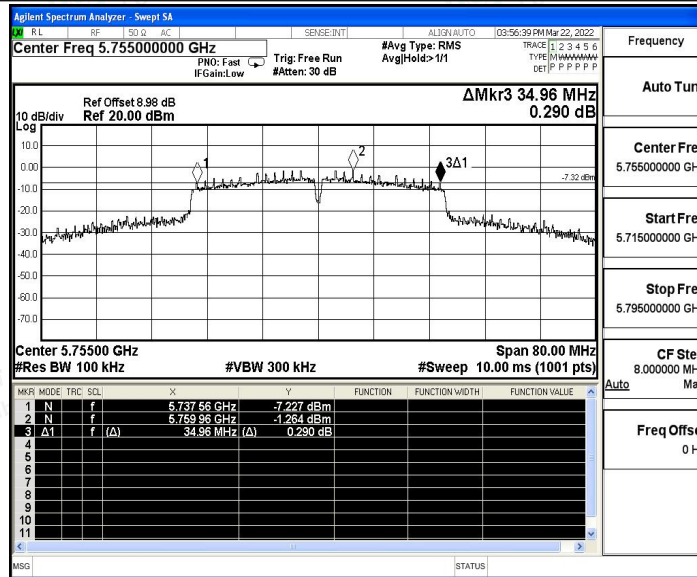


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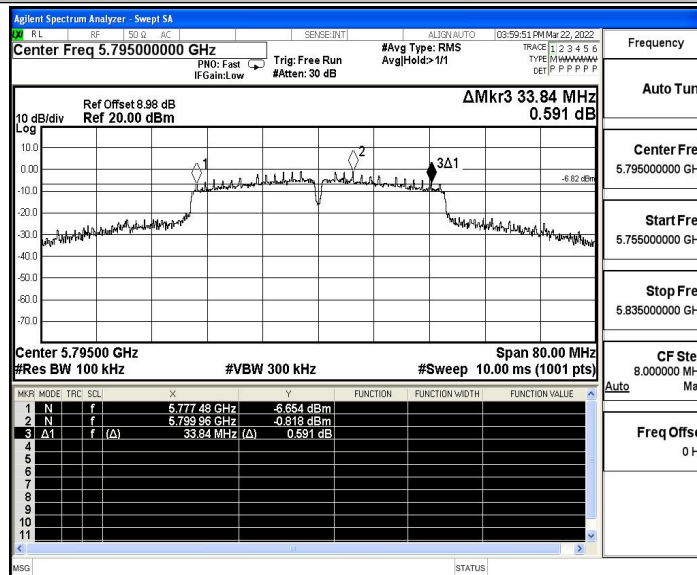
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11N40SISO_Ant1_5795



11AC20SISO Ant1 5745

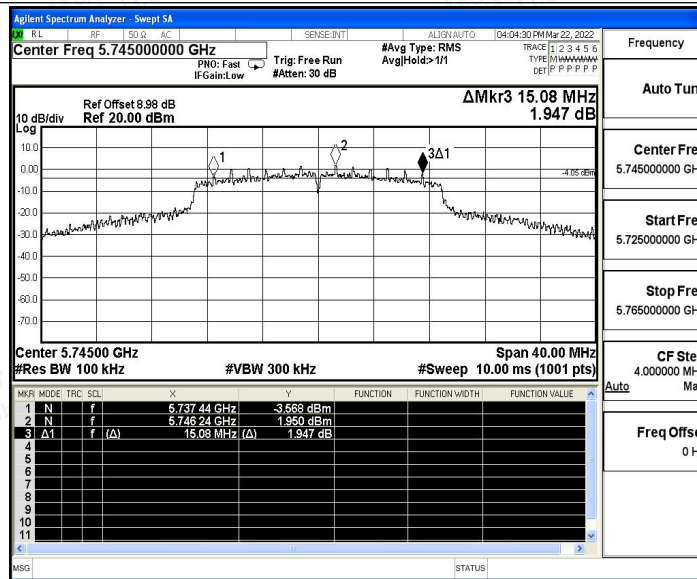


Shenzhen LCS Compliance Testing Laboratory Ltd.

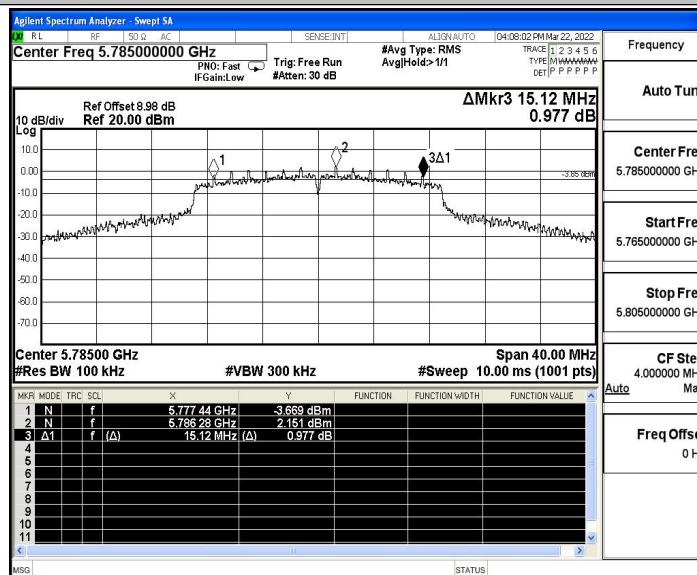
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

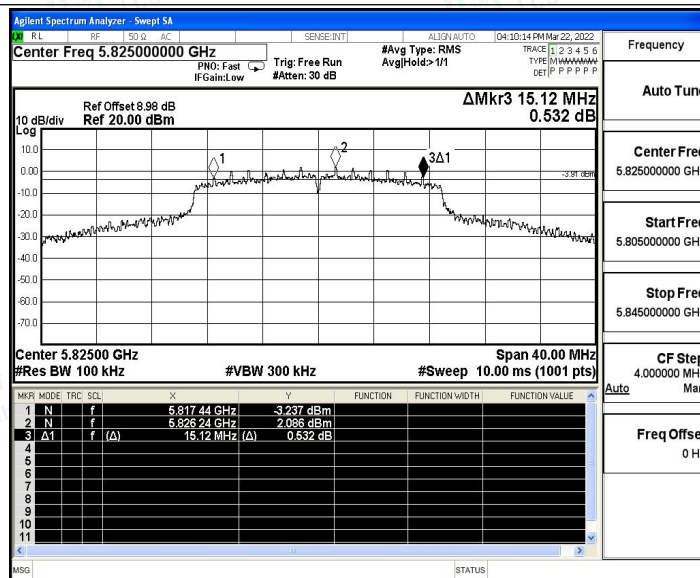


Shenzhen LCS Compliance Testing Laboratory Ltd.

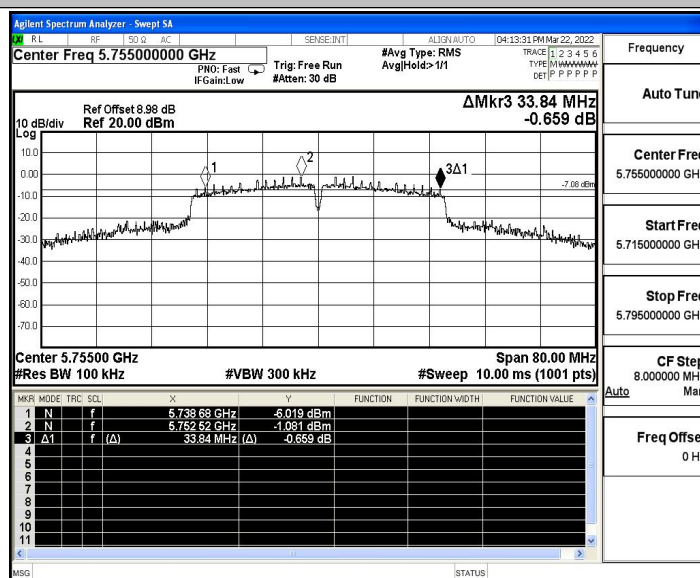
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

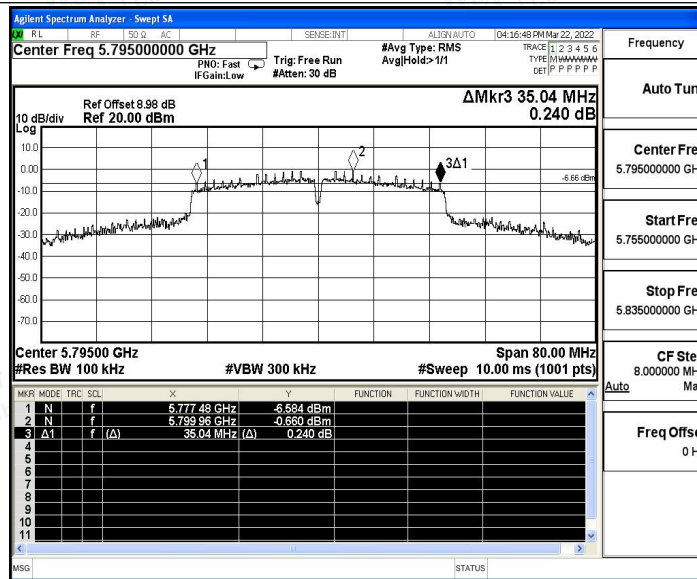


Shenzhen LCS Compliance Testing Laboratory Ltd.

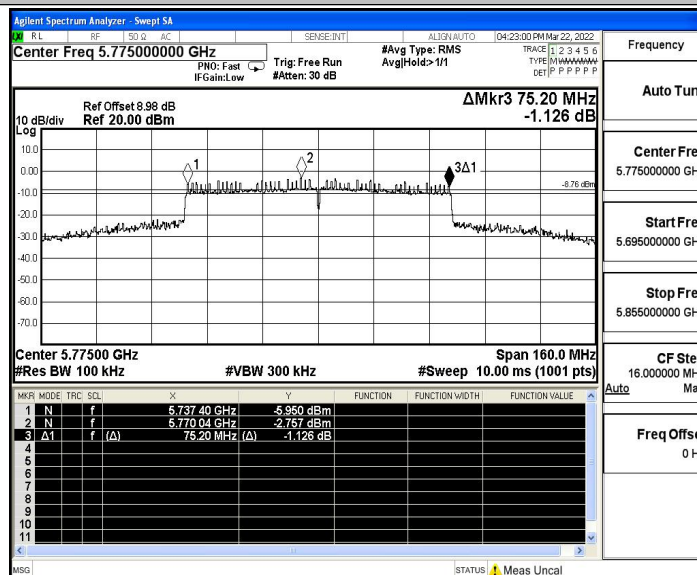
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11AC80SISO_Ant1_5775



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E.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	6.65	≤30.00	PASS
		5785	6.80	≤30.00	PASS
		5825	6.92	≤30.00	PASS
11N20SISO	Ant1	5745	6.55	≤30.00	PASS
		5785	6.68	≤30.00	PASS
		5825	6.68	≤30.00	PASS
11N40SISO	Ant1	5755	6.44	≤30.00	PASS
		5795	6.94	≤30.00	PASS
11AC20SISO	Ant1	5745	6.78	≤30.00	PASS
		5785	6.03	≤30.00	PASS
		5825	6.03	≤30.00	PASS
11AC40SISO	Ant1	5755	6.75	≤30.00	PASS
		5795	6.02	≤30.00	PASS
11AC80SISO	Ant1	5775	6.02	≤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/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-0.34	≤30.00	PASS
		5785	-0.34	≤30.00	PASS
		5825	-1.11	≤30.00	PASS
11N20SISO	Ant1	5745	-1.79	≤30.00	PASS
		5785	-1.66	≤30.00	PASS
		5825	-1.55	≤30.00	PASS
11N40SISO	Ant1	5755	-4.84	≤30.00	PASS
		5795	-4.33	≤30.00	PASS
11AC20SISO	Ant1	5745	-1.59	≤30.00	PASS
		5785	-1.27	≤30.00	PASS
		5825	-1.2	≤30.00	PASS
11AC40SISO	Ant1	5755	-4.58	≤30.00	PASS
		5795	-4.25	≤30.00	PASS
11AC80SISO	Ant1	5775	-7.79	≤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.



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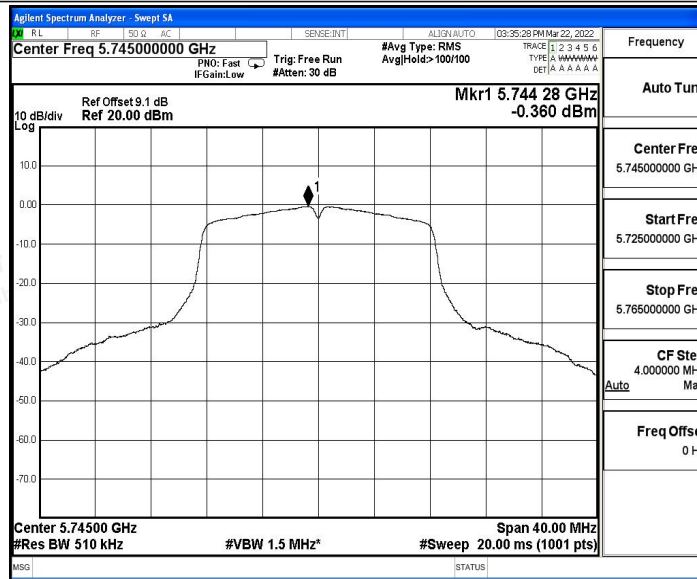
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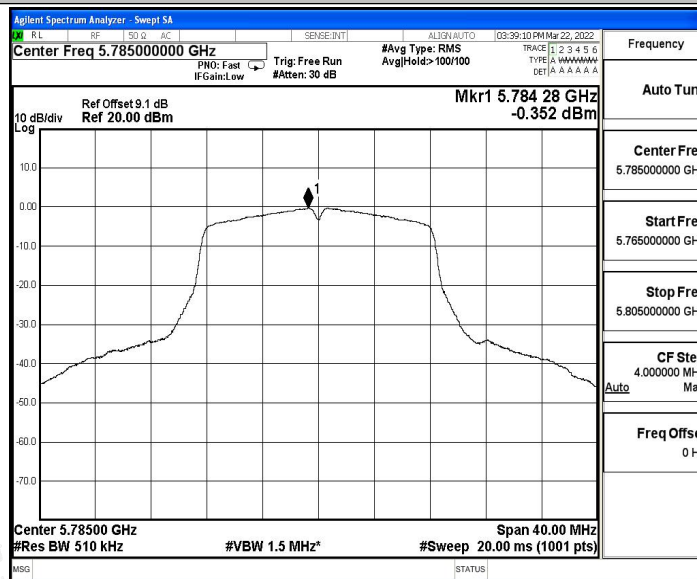


Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

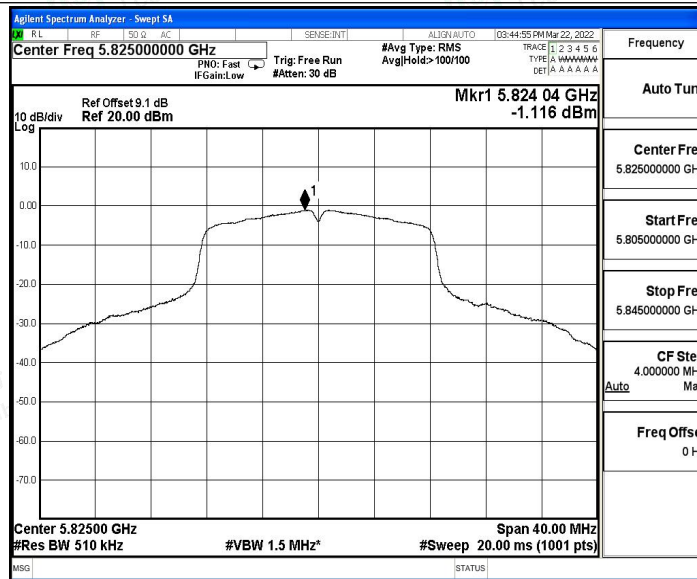


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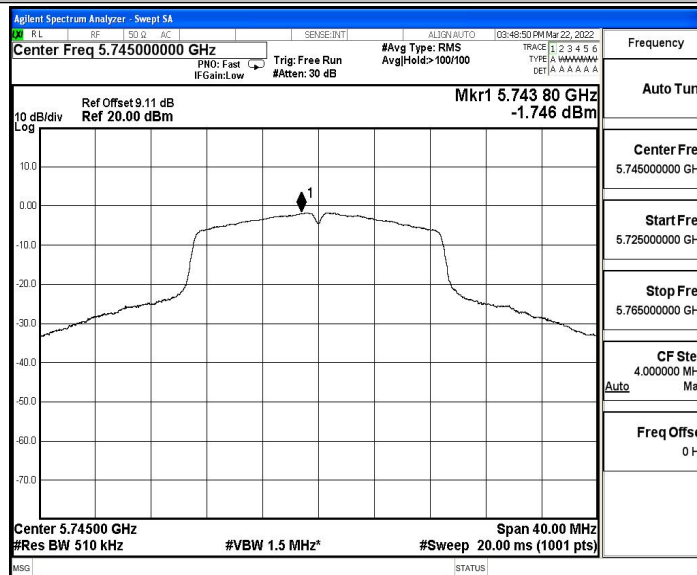
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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

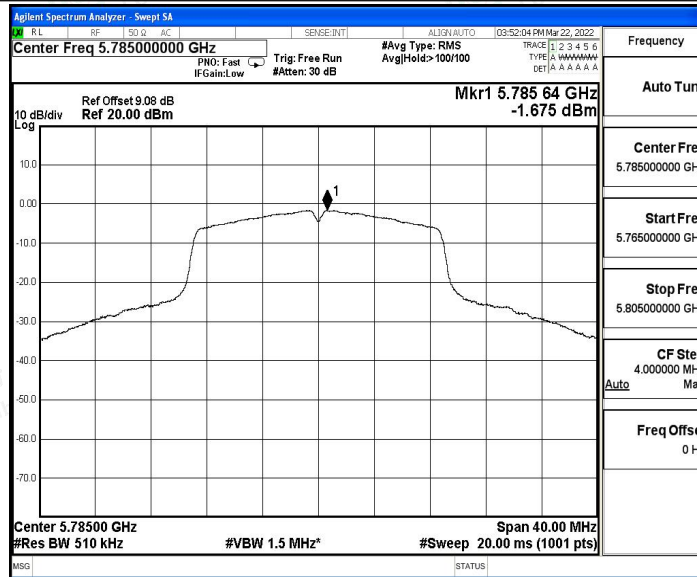


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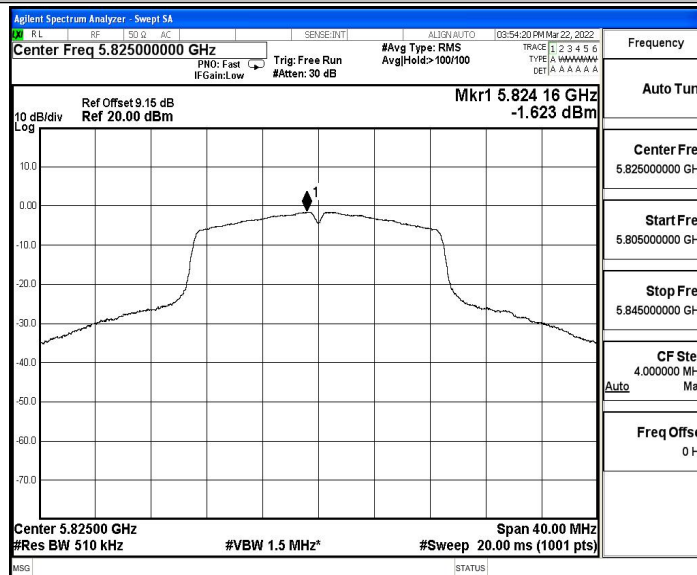
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

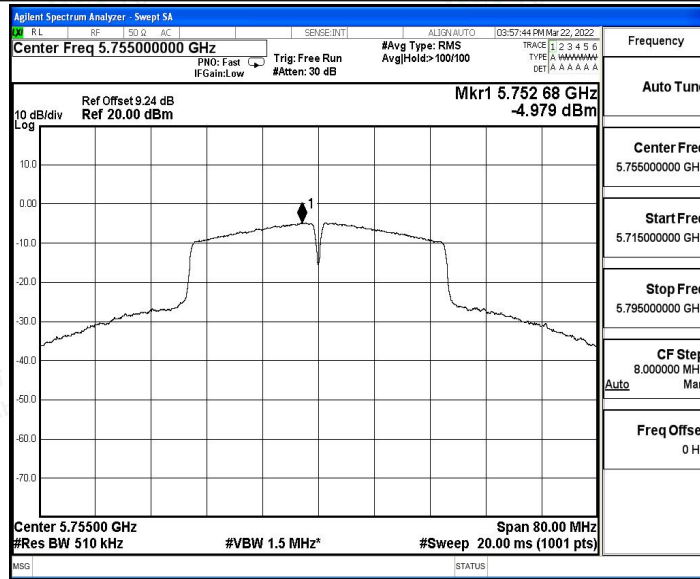


Shenzhen LCS Compliance Testing Laboratory Ltd.

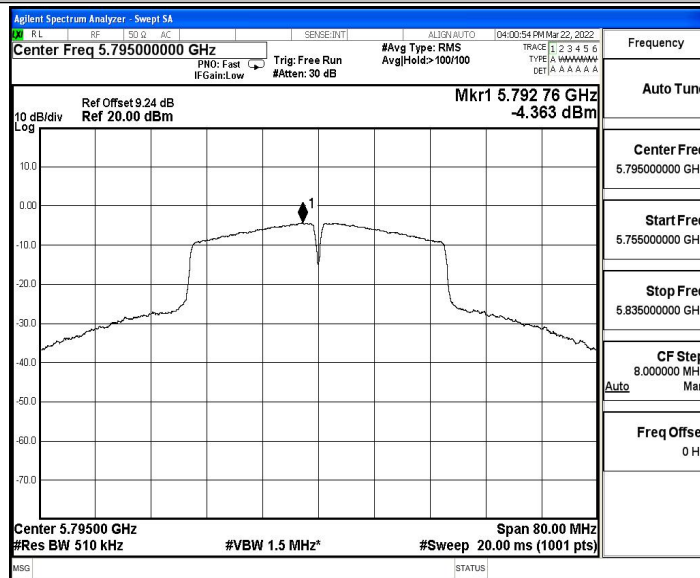
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

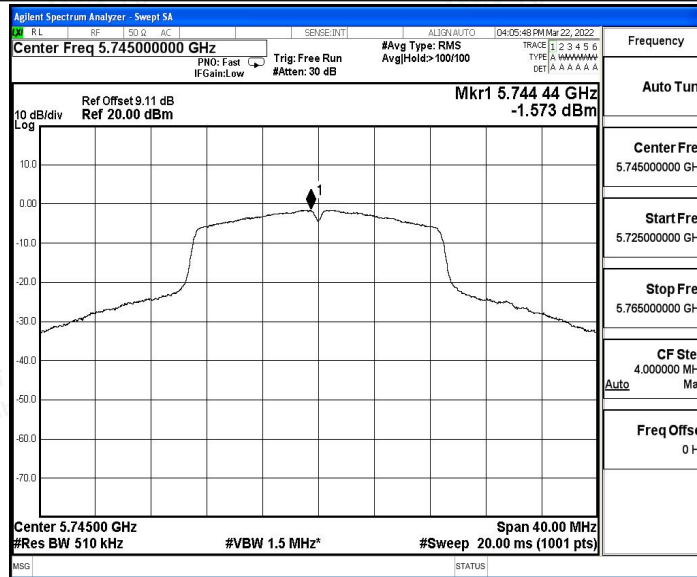


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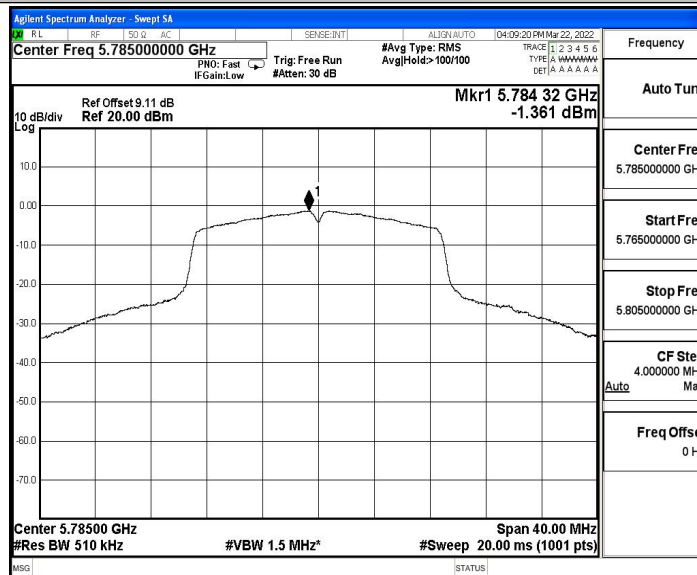
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

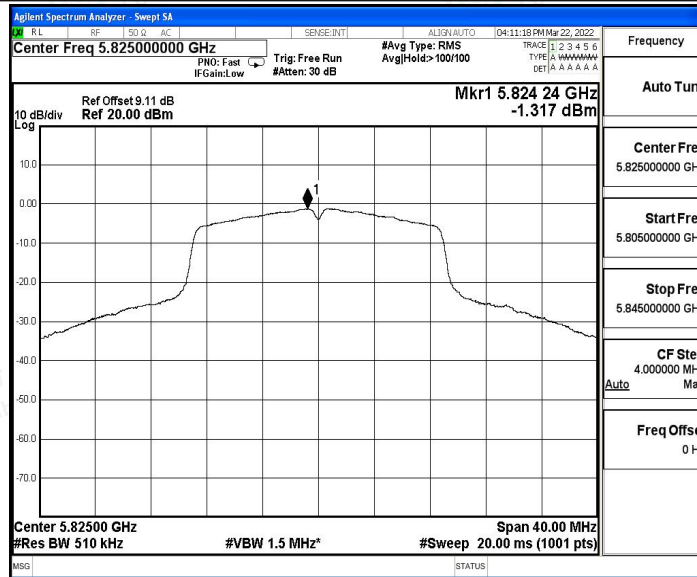


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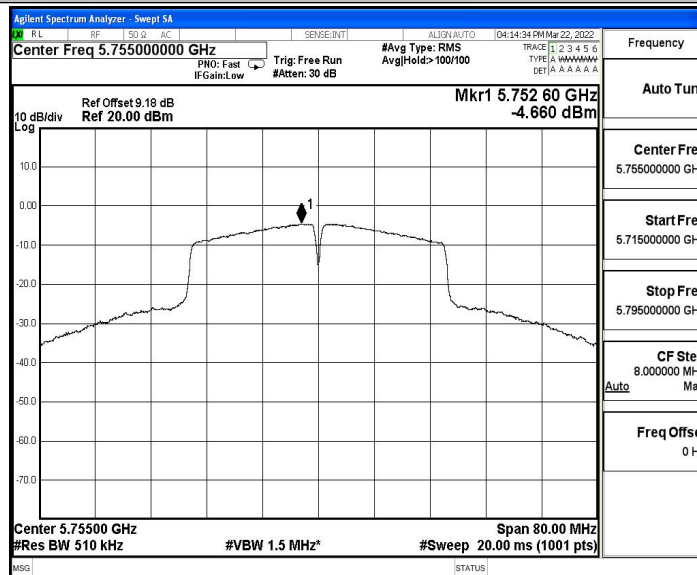
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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

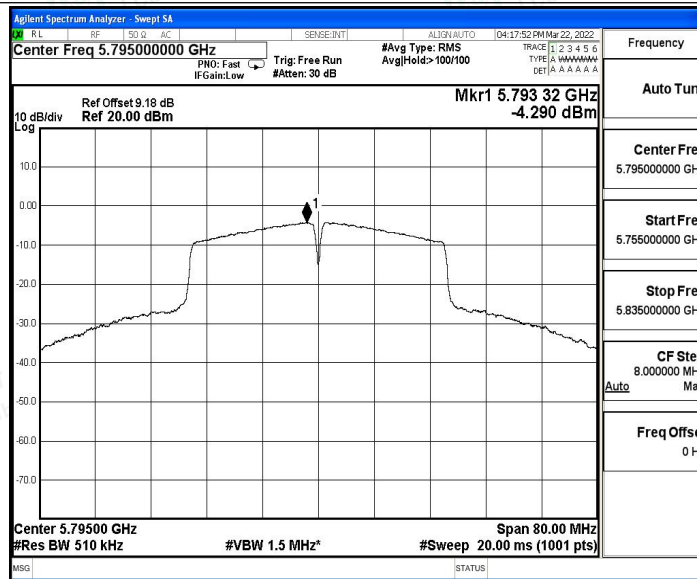


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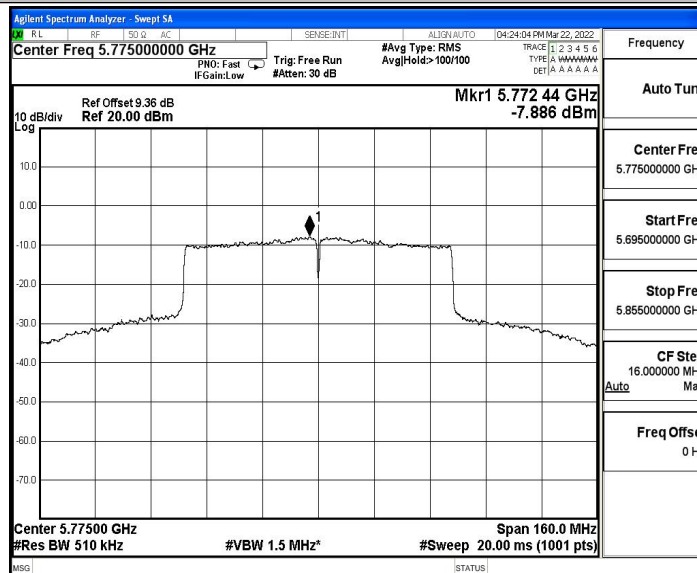
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11AC80SISO_Ant1_5775



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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	-38.789	≤-27.00	---	---	PASS
				Peak	5700.000	-38.01	≤10.00	---	---	PASS
				Peak	5720.000	-33.34	≤15.60	---	---	PASS
				Peak	5725.000	-25.74	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-26.757	≤15.60	---	---	PASS
				Peak	5855.000	-31.94	≤27.00	---	---	PASS
				Peak	5875.000	-38.79	≤15.60	---	---	PASS
				Peak	5925.000	-39.33	≤10.00	---	---	PASS
11N20SI SO	Ant1	Low	5745	Peak	5650.000	-38.627	≤-27.00	---	---	PASS
				Peak	5700.000	-35.79	≤10.00	---	---	PASS
				Peak	5720.000	-20.3	≤15.60	---	---	PASS
				Peak	5725.000	-15.12	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-24.441	≤15.60	---	---	PASS
				Peak	5855.000	-29.52	≤27.00	---	---	PASS
				Peak	5875.000	-37.77	≤15.60	---	---	PASS
				Peak	5925.000	-37.56	≤10.00	---	---	PASS
11N40SI SO	Ant1	Low	5755	Peak	5650.000	-37.08	≤-27.00	---	---	PASS
				Peak	5700.000	-30.96	≤10.00	---	---	PASS
				Peak	5720.000	-18.49	≤15.60	---	---	PASS
				Peak	5725.000	-15.18	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-30.249	≤15.60	---	---	PASS
				Peak	5855.000	-33.77	≤27.00	---	---	PASS
				Peak	5875.000	-38.87	≤15.60	---	---	PASS
				Peak	5925.000	-38.66	≤10.00	---	---	PASS
11AC20S ISO	Ant1	Low	5745	Peak	5650.000	-38.02	≤-27.00	---	---	PASS
				Peak	5700.000	-37.49	≤10.00	---	---	PASS
				Peak	5720.000	-19.12	≤15.60	---	---	PASS
				Peak	5725.000	-17.16	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-22.861	≤15.60	---	---	PASS
				Peak	5855.000	-27.33	≤27.00	---	---	PASS
				Peak	5875.000	-37.49	≤15.60	---	---	PASS
				Peak	5925.000	-38.34	≤10.00	---	---	PASS
11AC40S ISO	Ant1	Low	5755	Peak	5650.000	-39.675	≤-27.00	---	---	PASS
				Peak	5700.000	-29.04	≤10.00	---	---	PASS



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		High	5795	Peak	5720.000	-18.33	≤ 15.60	---	---	PASS
				Peak	5725.000	-14.56	≤ 27.00	---	---	PASS
				Peak	5850.000	-28.535	≤ 15.60	---	---	PASS
				Peak	5855.000	-33.08	≤ 27.00	---	---	PASS
				Peak	5875.000	-37.2	≤ 15.60	---	---	PASS
				Peak	5925.000	-39.49	≤ 10.00	---	---	PASS
11AC80S ISO	Ant1	Low	5775	Peak	5650.000	-31.082	≤ 27.00	---	---	PASS
				Peak	5700.000	-19.77	≤ 10.00	---	---	PASS
				Peak	5720.000	-16.1	≤ 15.60	---	---	PASS
				Peak	5725.000	-14.04	≤ 27.00	---	---	PASS
		High	5775	Peak	5850.000	-17.04	≤ 15.60	---	---	PASS
				Peak	5855.000	-20.76	≤ 27.00	---	---	PASS
				Peak	5875.000	-25.27	≤ 15.60	---	---	PASS
				Peak	5925.000	-32.55	≤ 10.00	---	---	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.



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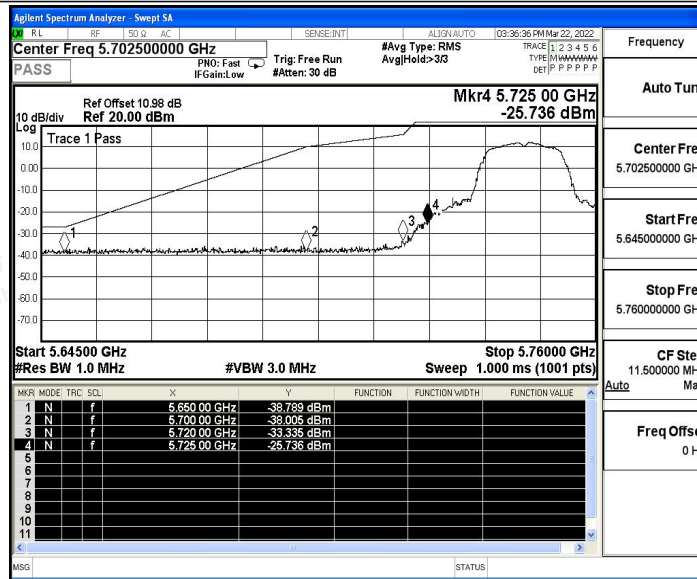
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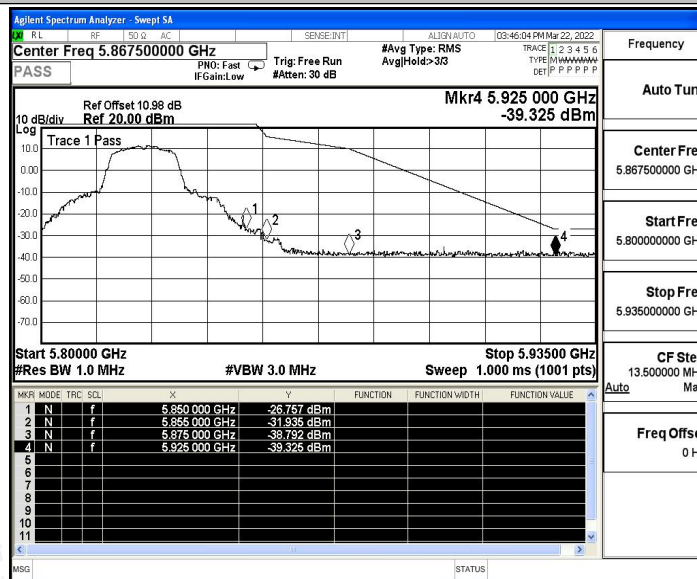


Test Graphs

11A_Ant1_Low_5745_Peak



11A_Ant1_High_5825_Peak



11N20SISO_Ant1_Low_5745_Peak



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