



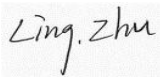
Appendix D

RF Test Data for 5.2G 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





D.1 Emission Bandwidth

Test Result

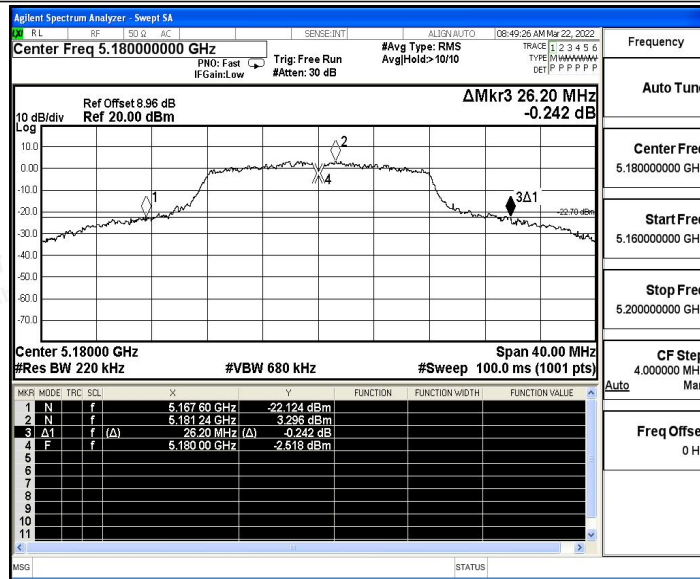
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	26.200	5167.600	5193.800	---	---
		5220	20.760	5209.680	5230.440	---	---
		5240	20.280	5229.680	5249.960	---	---
11N20SISO	Ant1	5180	25.040	5167.840	5192.880	---	---
		5220	20.520	5209.560	5230.080	---	---
		5240	20.040	5229.920	5249.960	---	---
11N40SISO	Ant1	5190	49.280	5165.520	5214.800	---	---
		5230	40.960	5209.280	5250.240	---	---
11AC20SISO	Ant1	5180	20.080	5169.920	5190.000	---	---
		5220	20.080	5209.960	5230.040	---	---
		5240	20.080	5229.920	5250.000	---	---
11AC40SISO	Ant1	5190	40.560	5169.760	5210.320	---	---
		5230	40.720	5209.760	5250.480	---	---
11AC80SISO	Ant1	5210	89.440	5161.520	5250.960	---	---



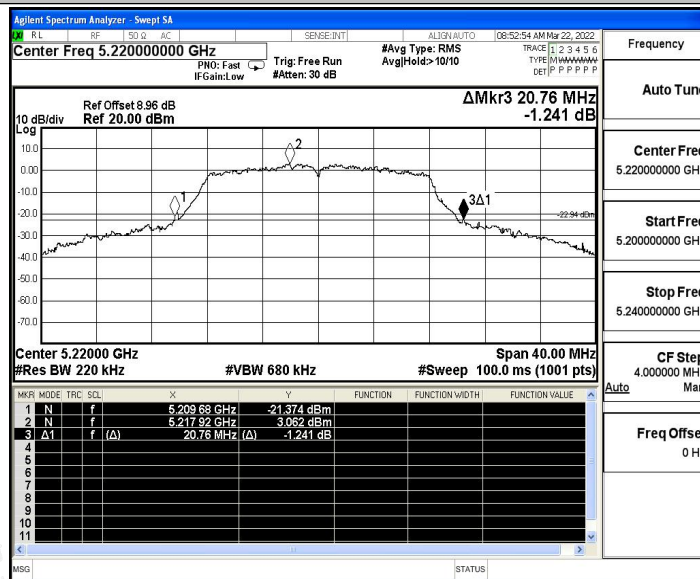


Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240

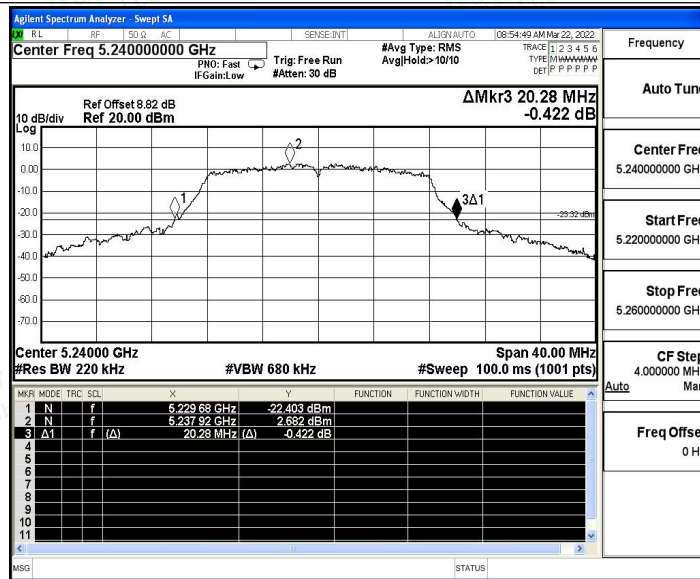


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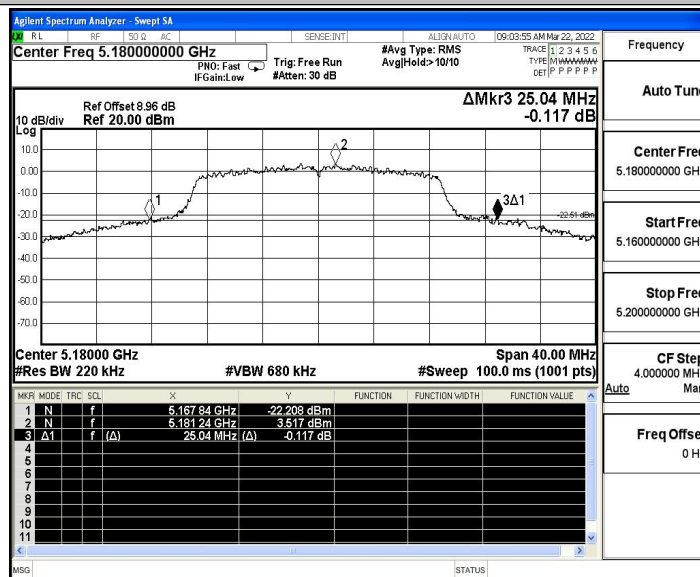
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

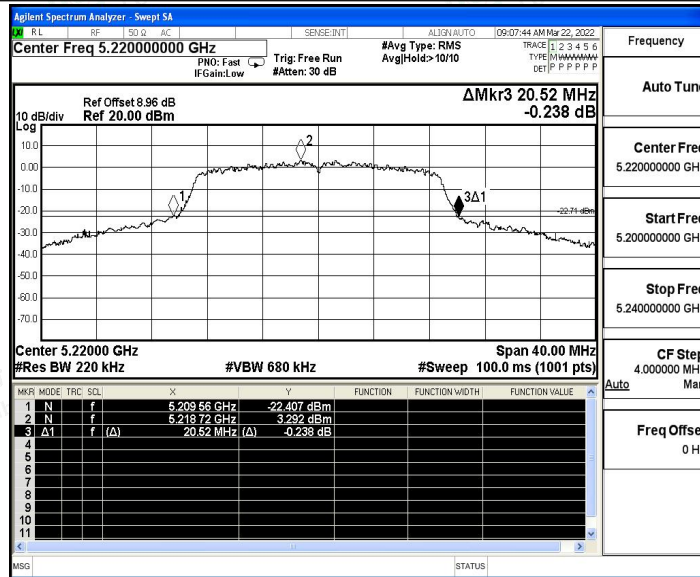


Shenzhen LCS Compliance Testing Laboratory Ltd.

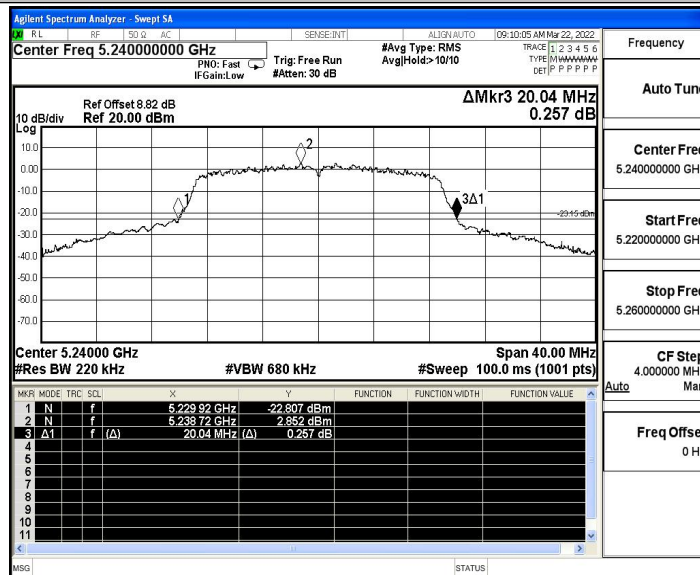
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

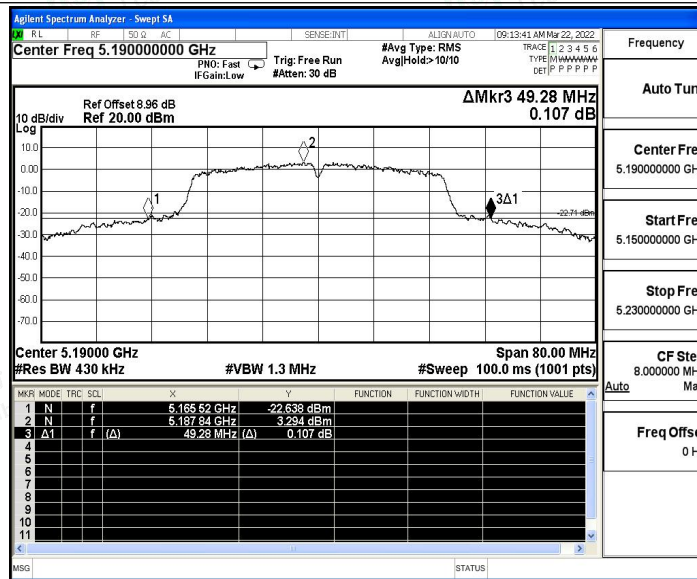


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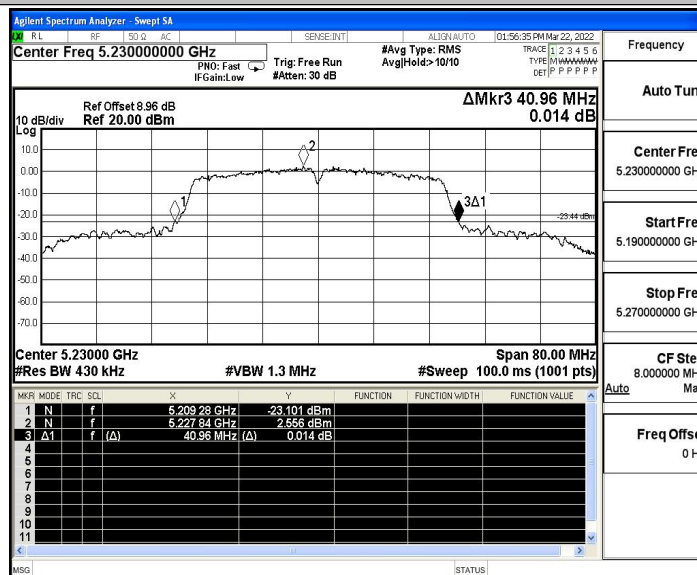
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11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

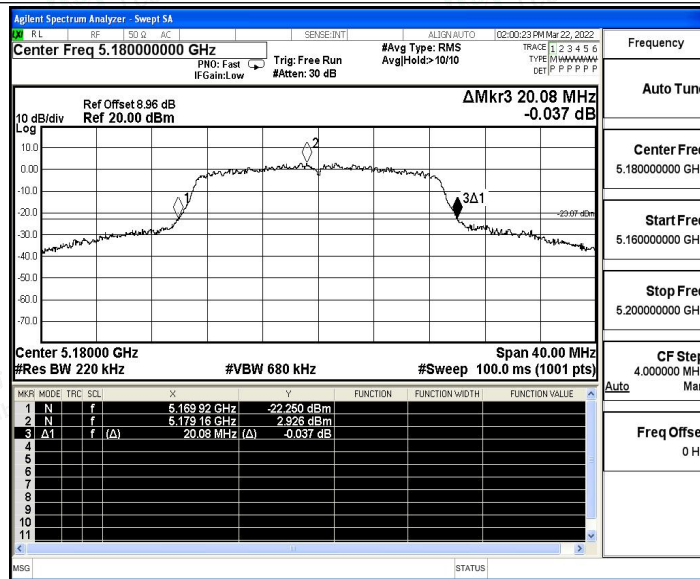


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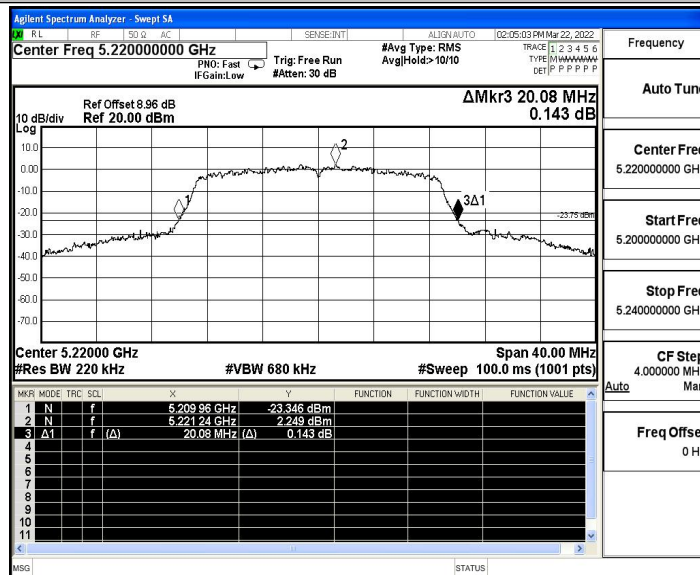
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11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240

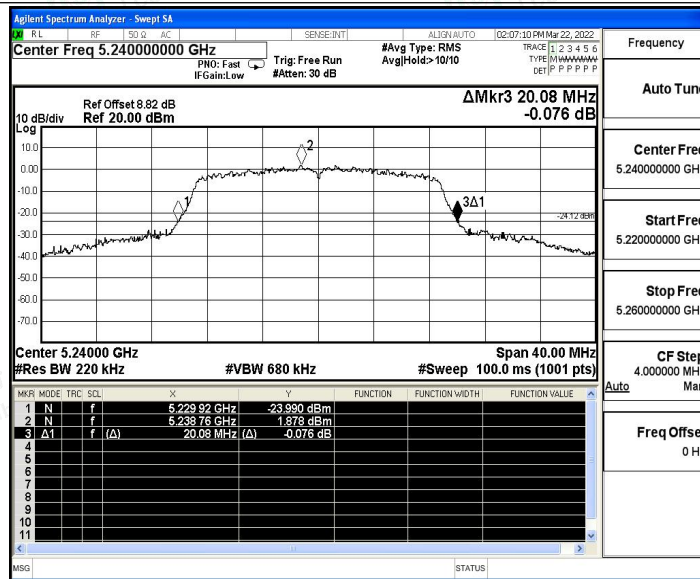


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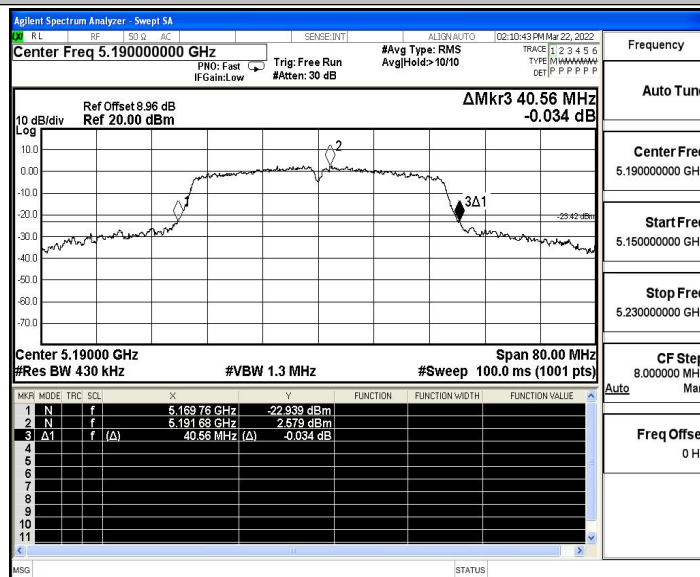
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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

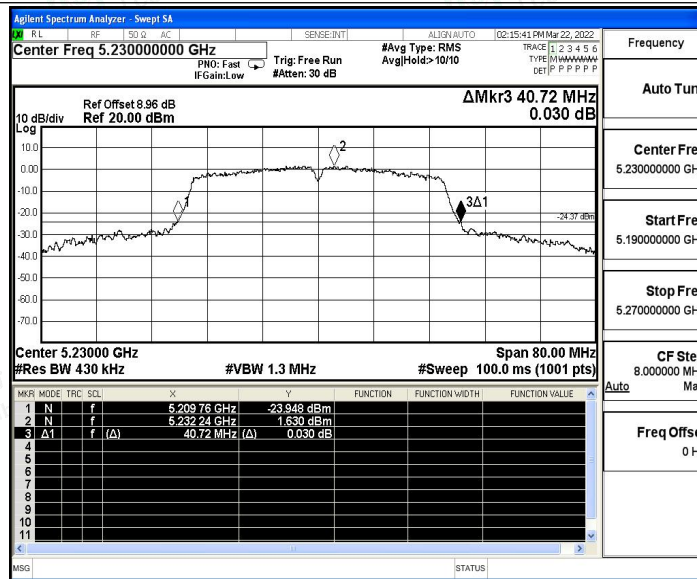


Shenzhen LCS Compliance Testing Laboratory Ltd.

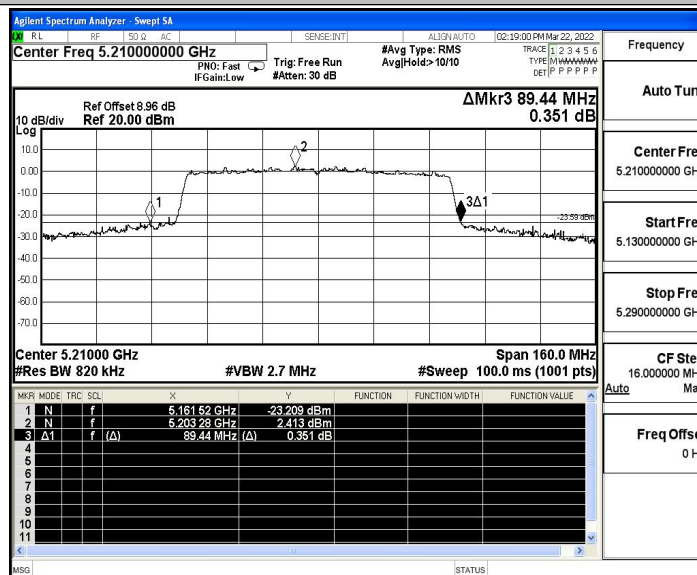
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant1_5210



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D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.06	≤23.98	PASS
		5220	7.91	≤23.98	PASS
		5240	7.47	≤23.98	PASS
11N20SISO	Ant1	5180	6.29	≤23.98	PASS
		5220	6.14	≤23.98	PASS
		5240	6.62	≤23.98	PASS
11N40SISO	Ant1	5190	6.32	≤23.98	PASS
		5230	6.03	≤23.98	PASS
11AC20SISO	Ant1	5180	6.67	≤23.98	PASS
		5220	6.12	≤23.98	PASS
		5240	6.72	≤23.98	PASS
11AC40SISO	Ant1	5190	6.48	≤23.98	PASS
		5230	6.85	≤23.98	PASS
11AC80SISO	Ant1	5210	6.53	≤23.98	PASS

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





D.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.85	≤ 11.00	PASS
		5220	1.6	≤ 11.00	PASS
		5240	1.23	≤ 11.00	PASS
11N20SISO	Ant1	5180	1.84	≤ 11.00	PASS
		5220	1.68	≤ 11.00	PASS
		5240	1.19	≤ 11.00	PASS
11N40SISO	Ant1	5190	-0.91	≤ 11.00	PASS
		5230	-2.33	≤ 11.00	PASS
11AC20SISO	Ant1	5180	1.2	≤ 11.00	PASS
		5220	0.69	≤ 11.00	PASS
		5240	0.31	≤ 11.00	PASS
11AC40SISO	Ant1	5190	-1.87	≤ 11.00	PASS
		5230	-2.44	≤ 11.00	PASS
11AC80SISO	Ant1	5210	-5.52	≤ 11.00	PASS

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

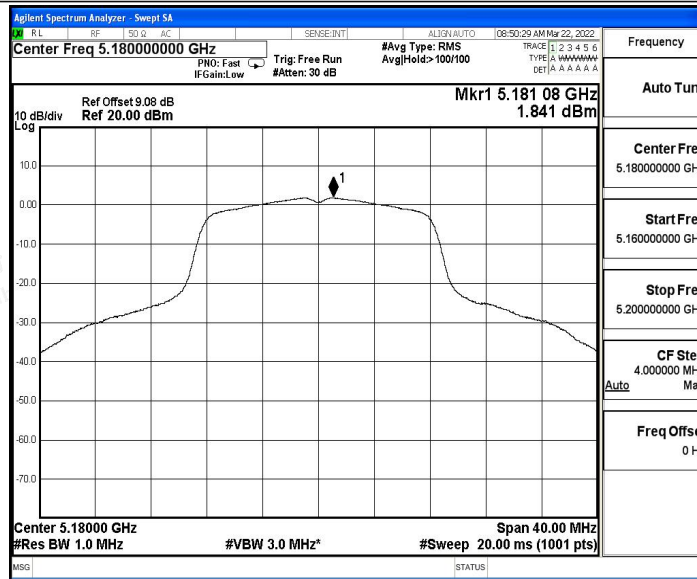
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



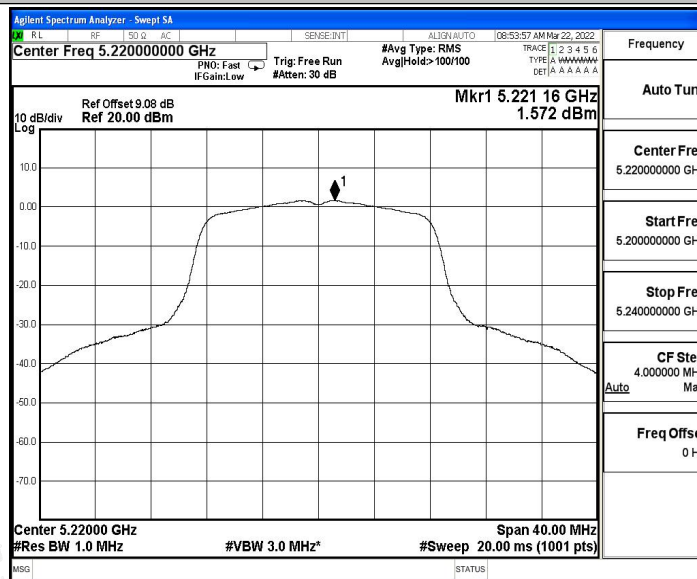


Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240

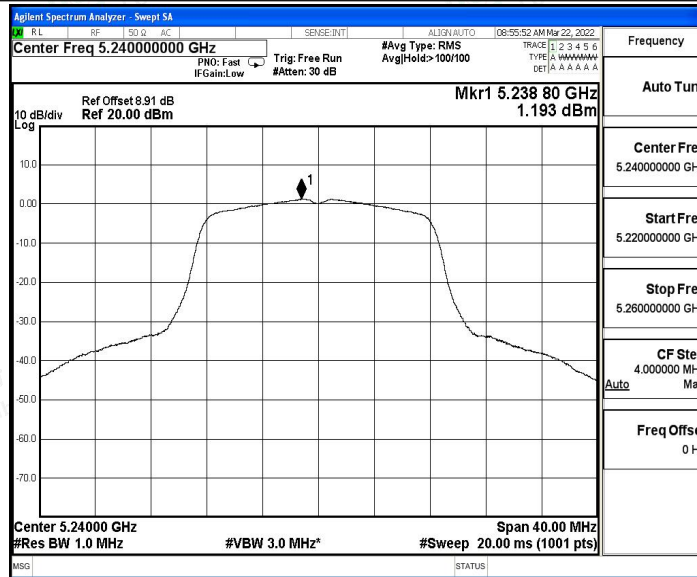


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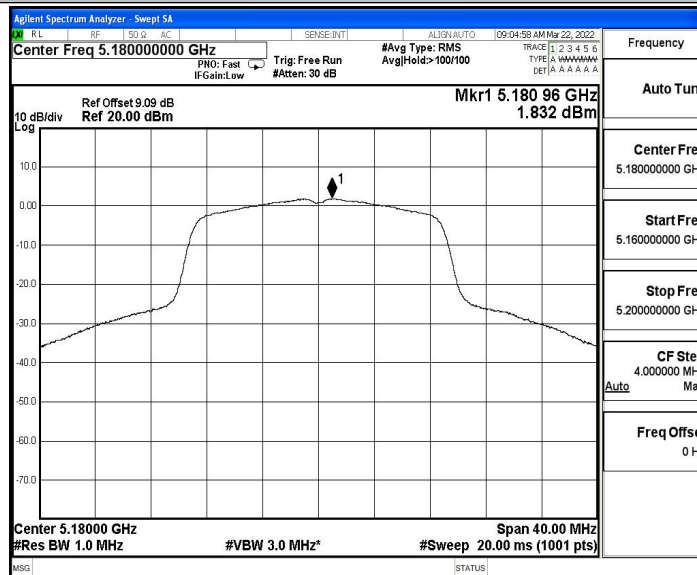
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

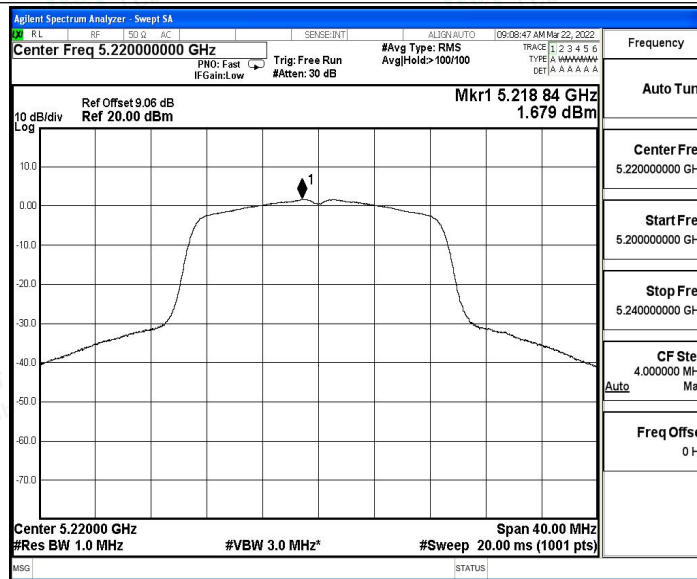


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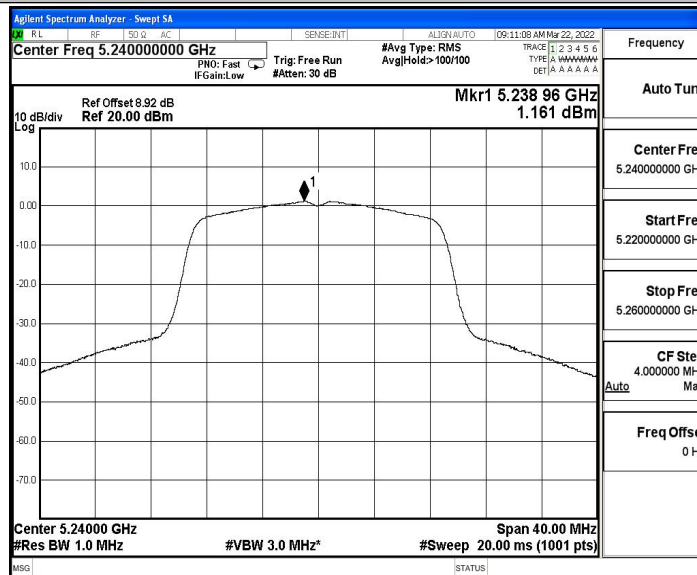
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

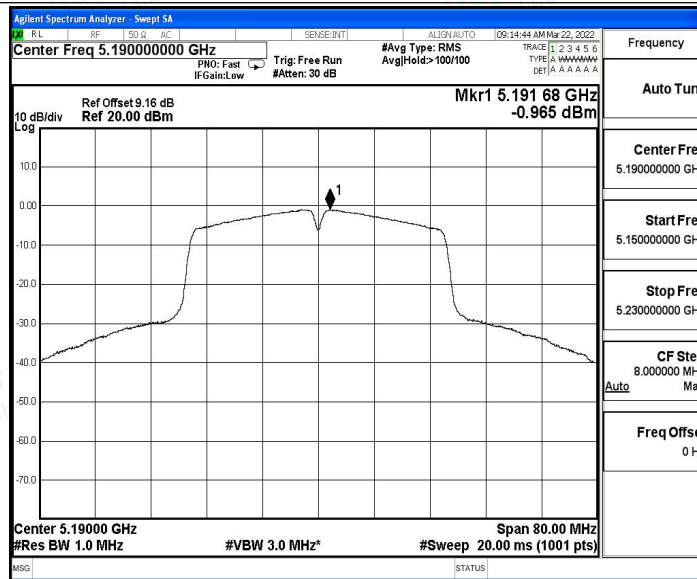


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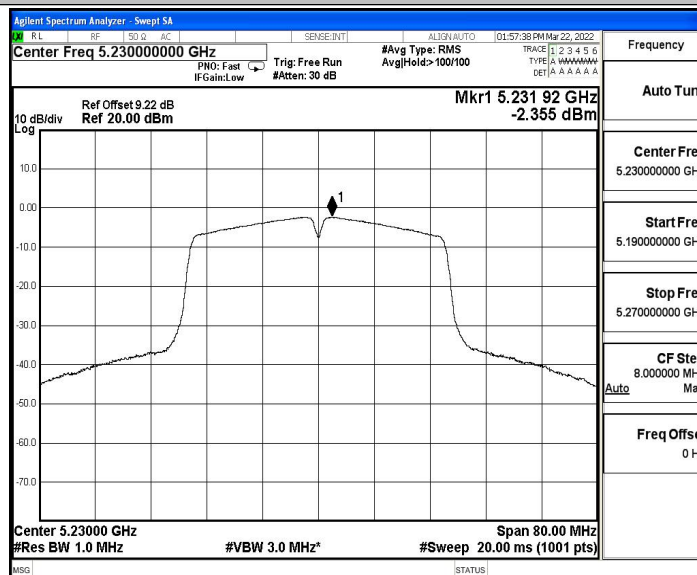
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11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

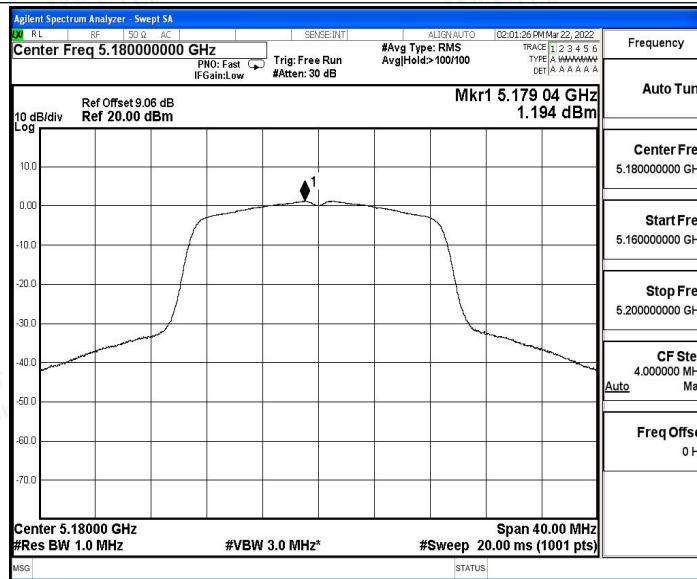


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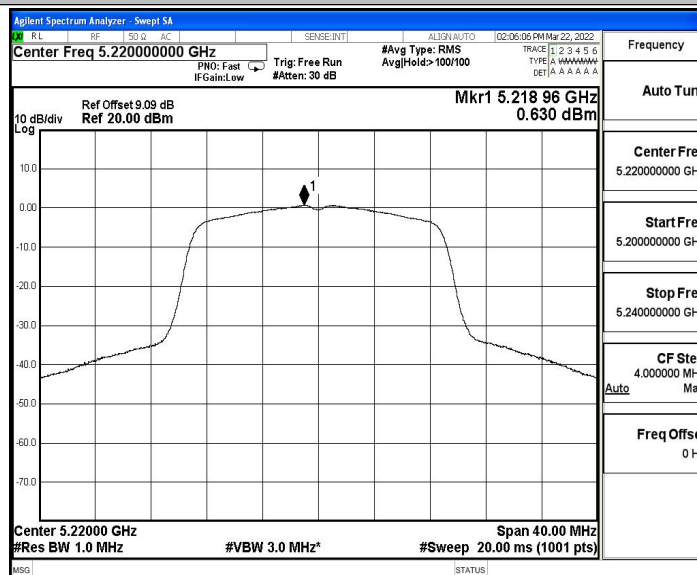
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11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240

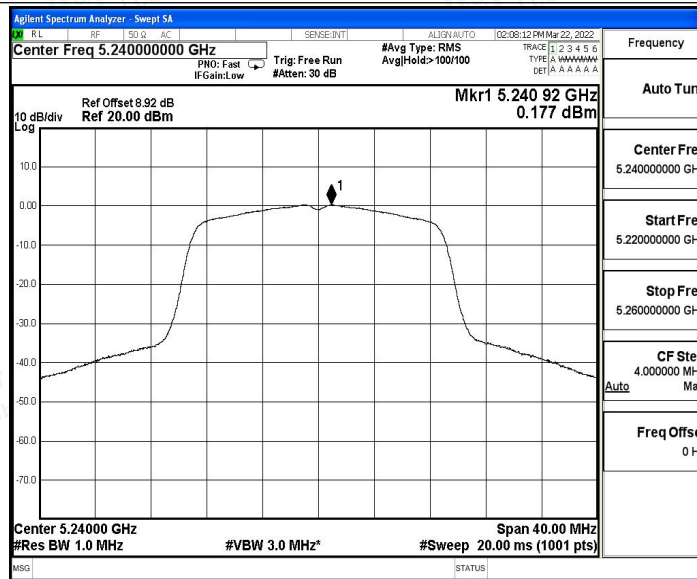


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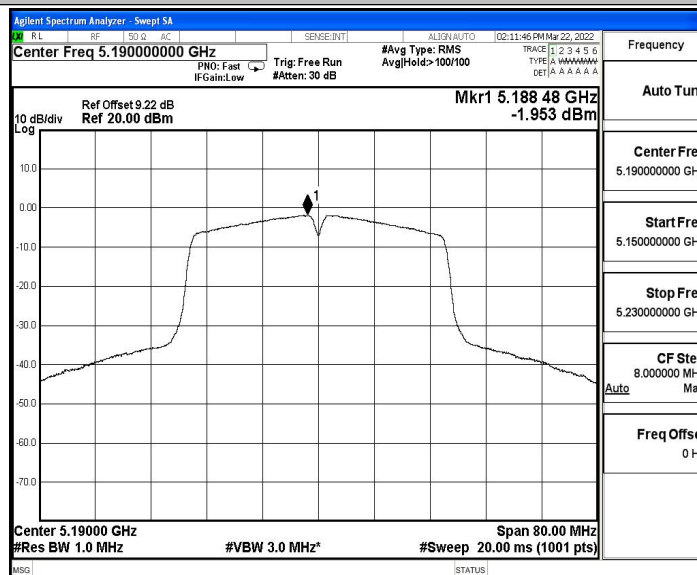
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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

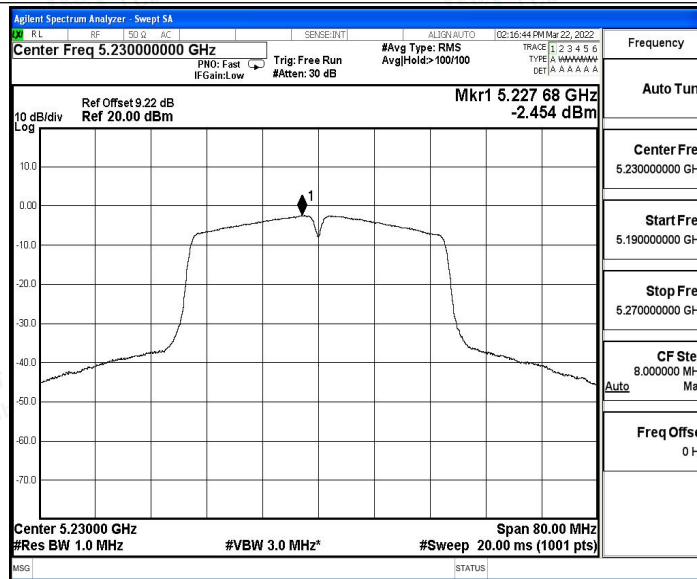


Shenzhen LCS Compliance Testing Laboratory Ltd.

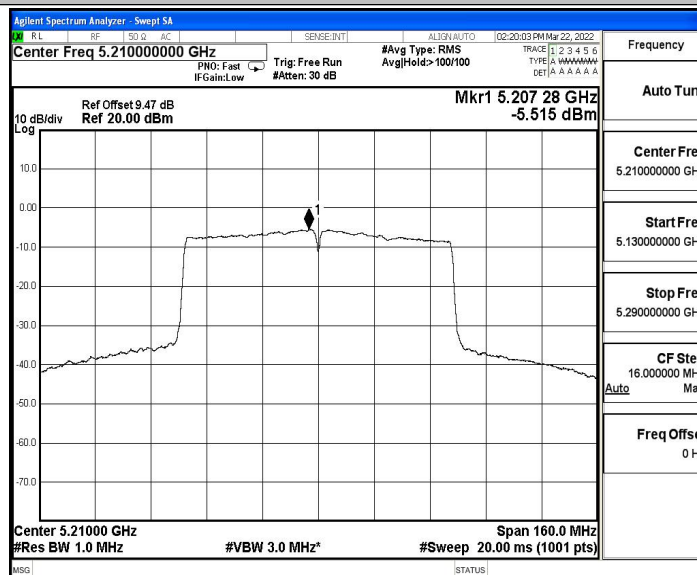
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11AC80SISO_Ant1_5210



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D.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	5180	AV	4500.000	-49.28	≤-41.20	45.92	≤54	PASS
				AV	5149.600	-46.04	≤-41.20	49.16	≤54	PASS
				AV	5150.000	-46.07	≤-41.20	49.13	≤54	PASS
				Peak	4500.000	-40.79	≤-21.20	54.41	≤74	PASS
				Peak	5144.700	-36.2	≤-21.20	59.00	≤74	PASS
				Peak	5150.000	-36.75	≤-21.20	58.45	≤74	PASS
		High	5240	AV	5350.000	-48.04	≤-41.20	47.16	≤54	PASS
				AV	5354.400	-47.73	≤-41.20	47.47	≤54	PASS
				AV	5460.000	-48.33	≤-41.20	46.87	≤54	PASS
				Peak	5350.000	-40.05	≤-21.20	55.15	≤74	PASS
				Peak	5371.200	-37.32	≤-21.20	57.88	≤74	PASS
				Peak	5460.000	-40.02	≤-21.20	55.18	≤74	PASS
11N20SI SO	Ant1	Low	5180	AV	4500.000	-49.47	≤-41.20	45.73	≤54	PASS
				AV	5149.600	-46.06	≤-41.20	49.14	≤54	PASS
				AV	5150.000	-45.99	≤-41.20	49.21	≤54	PASS
				Peak	4500.000	-40.76	≤-21.20	54.44	≤74	PASS
				Peak	5148.900	-31.74	≤-21.20	63.46	≤74	PASS
				Peak	5150.000	-36.27	≤-21.20	58.93	≤74	PASS
		High	5240	AV	5350.000	-47.71	≤-41.20	47.49	≤54	PASS
				AV	5406.240	-47.6	≤-41.20	47.60	≤54	PASS
				AV	5460.000	-48.22	≤-41.20	46.98	≤54	PASS
				Peak	5350.000	-40.07	≤-21.20	55.13	≤74	PASS
				Peak	5381.520	-37.64	≤-21.20	57.56	≤74	PASS
				Peak	5460.000	-40.61	≤-21.20	54.59	≤74	PASS
11N40SI SO	Ant1	Low	5190	AV	4500.000	-49.01	≤-41.20	46.19	≤54	PASS
				AV	5149.600	-42.72	≤-41.20	52.48	≤54	PASS
				AV	5150.000	-42.52	≤-41.20	52.68	≤54	PASS
				Peak	4500.000	-41.66	≤-21.20	53.54	≤74	PASS
				Peak	5149.600	-28.42	≤-21.20	66.78	≤74	PASS
				Peak	5150.000	-29.23	≤-21.20	65.97	≤74	PASS
		High	5230	AV	5350.000	-47.65	≤-41.20	47.55	≤54	PASS
				AV	5381.480	-47.21	≤-41.20	47.99	≤54	PASS
				AV	5460.000	-47.84	≤-41.20	47.36	≤54	PASS
				Peak	5350.000	-38.7	≤-21.20	56.50	≤74	PASS



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11AC20S ISO	Ant1	Low	5180	Peak	5424.120	-37.17	≤-21.20	58.03	≤74	PASS
				Peak	5460.000	-40.12	≤-21.20	55.08	≤74	PASS
				AV	4500.000	-49.32	≤-41.20	45.88	≤54	PASS
				AV	5146.800	-46.41	≤-41.20	48.79	≤54	PASS
				AV	5150.000	-46.55	≤-41.20	48.65	≤54	PASS
				Peak	4500.000	-41.21	≤-21.20	53.99	≤74	PASS
		High	5240	Peak	4901.800	-35.93	≤-21.20	59.27	≤74	PASS
				Peak	5150.000	-38.05	≤-21.20	57.15	≤74	PASS
				AV	5350.000	-47.97	≤-41.20	47.23	≤54	PASS
				AV	5400.480	-47.74	≤-41.20	47.46	≤54	PASS
				AV	5460.000	-48.13	≤-41.20	47.07	≤54	PASS
				Peak	5350.000	-39.08	≤-21.20	56.12	≤74	PASS
11AC40S ISO	Ant1	Low	5190	Peak	5357.040	-37.81	≤-21.20	57.39	≤74	PASS
				Peak	5460.000	-40.09	≤-21.20	55.11	≤74	PASS
				AV	4500.000	-49.27	≤-41.20	45.93	≤54	PASS
				AV	5149.600	-43.14	≤-41.20	52.06	≤54	PASS
				AV	5150.000	-42.69	≤-41.20	52.51	≤54	PASS
				Peak	4500.000	-41.13	≤-21.20	54.07	≤74	PASS
		High	5230	Peak	5149.600	-31.9	≤-21.20	63.30	≤74	PASS
				Peak	5150.000	-31.5	≤-21.20	63.70	≤74	PASS
				AV	5350.000	-47.56	≤-41.20	47.64	≤54	PASS
				AV	5356.260	-47.29	≤-41.20	47.91	≤54	PASS
				AV	5460.000	-47.77	≤-41.20	47.43	≤54	PASS
				Peak	5350.000	-40.16	≤-21.20	55.04	≤74	PASS
11AC80S ISO	Ant1	Low	5210	Peak	5444.920	-37.57	≤-21.20	57.63	≤74	PASS
				Peak	5460.000	-39.75	≤-21.20	55.45	≤74	PASS
				AV	4500.000	-48.64	≤-41.20	46.56	≤54	PASS
				AV	5148.750	-43.22	≤-41.20	51.98	≤54	PASS
				AV	5150.000	-43.1	≤-41.20	52.10	≤54	PASS
				Peak	4500.000	-41.79	≤-21.20	53.41	≤74	PASS
		High	5210	Peak	5148.750	-31.61	≤-21.20	63.59	≤74	PASS
				Peak	5150.000	-34.85	≤-21.20	60.35	≤74	PASS
				AV	5350.000	-47.06	≤-41.20	48.14	≤54	PASS
				AV	5363.120	-46.55	≤-41.20	48.65	≤54	PASS
				AV	5460.000	-46.98	≤-41.20	48.22	≤54	PASS
				Peak	5350.000	-38.73	≤-21.20	56.47	≤74	PASS
				Peak	5379.360	-37.28	≤-21.20	57.92	≤74	PASS
				Peak	5460.000	-39.71	≤-21.20	55.49	≤74	PASS

Note:



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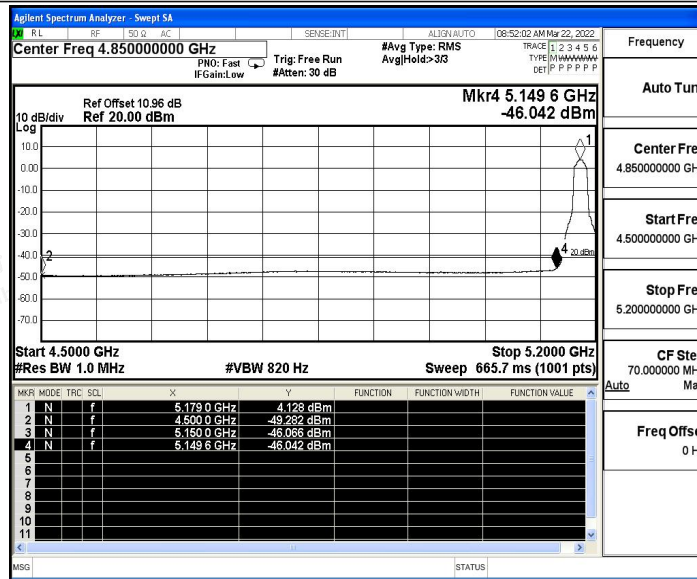
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



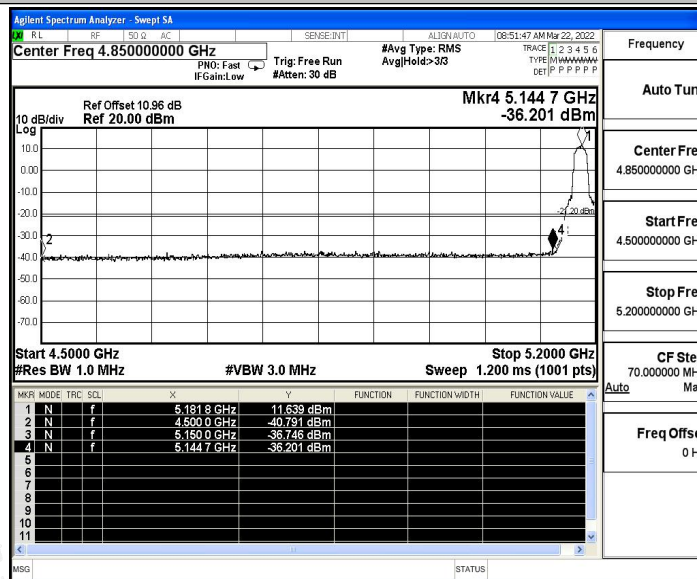


Test Graphs

11A_Ant1_Low_5180_AV



11A_Ant1_Low_5180_Peak



11A_Ant1_High_5240_AV



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