



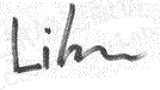
Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 10.1inch Cloud Photo Frame

Test Model: US65101A2

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Monkey Li
Supervised by:	 Li Huan





B.1 DTS Bandwidth

Test Result

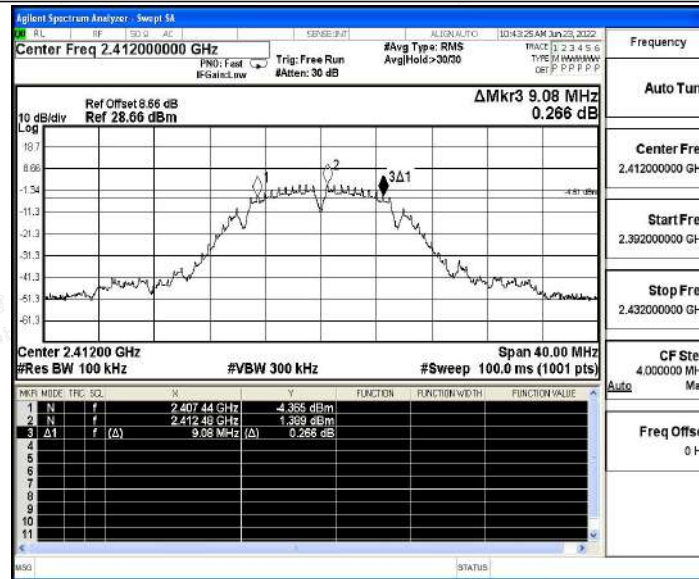
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.440	2416.520	0.5	PASS
		2437	10.040	2431.960	2442.000	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	15.080	2404.440	2419.520	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.080	2439.840	0.5	PASS
		2437	35.840	2419.080	2454.920	0.5	PASS
		2452	35.760	2434.160	2469.920	0.5	PASS



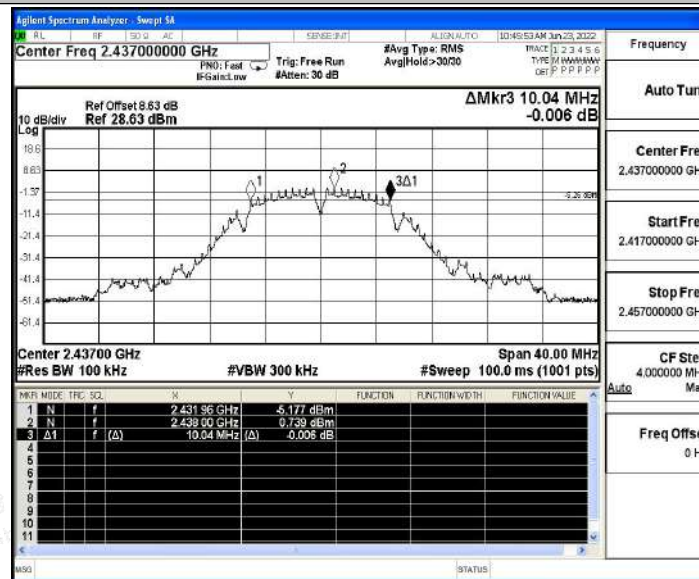


Test Graphs

11B_Ant1_2412

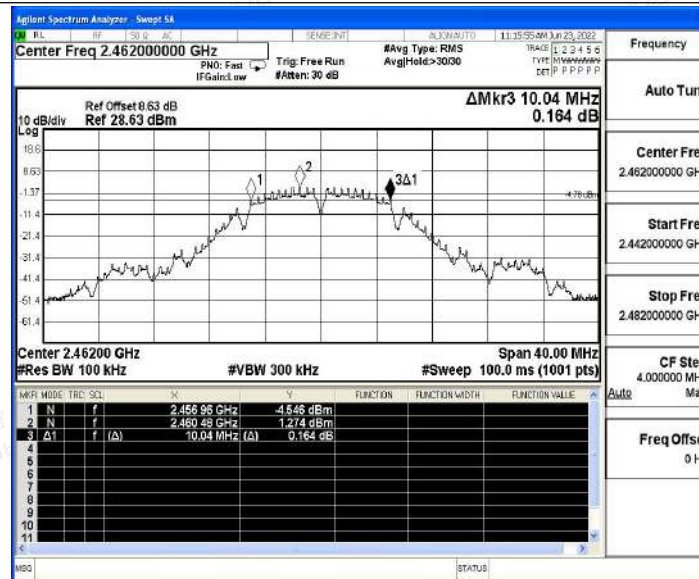


11B_Ant1_2437

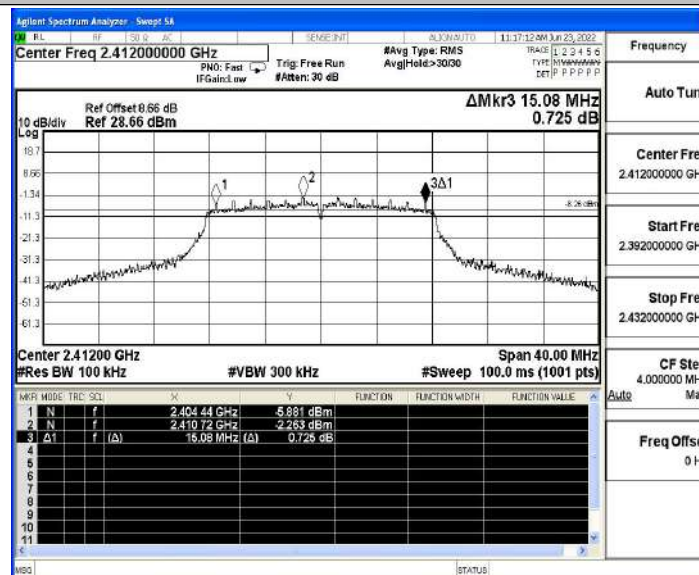


11B_Ant1_2462



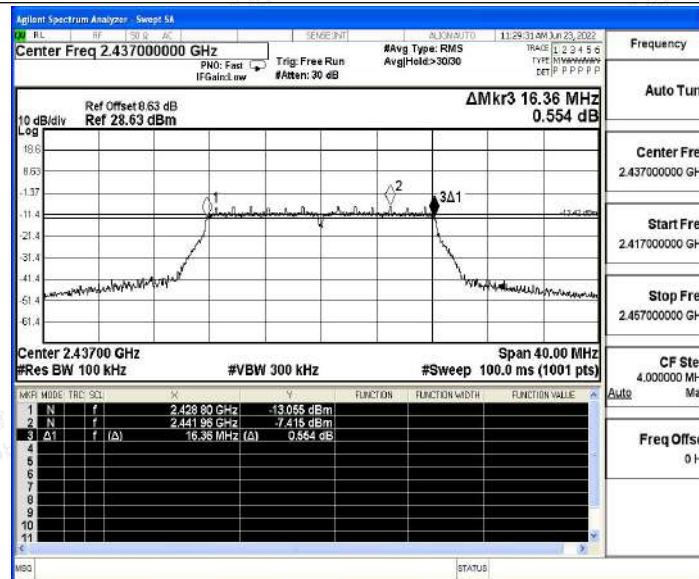


11G_Ant1_2412

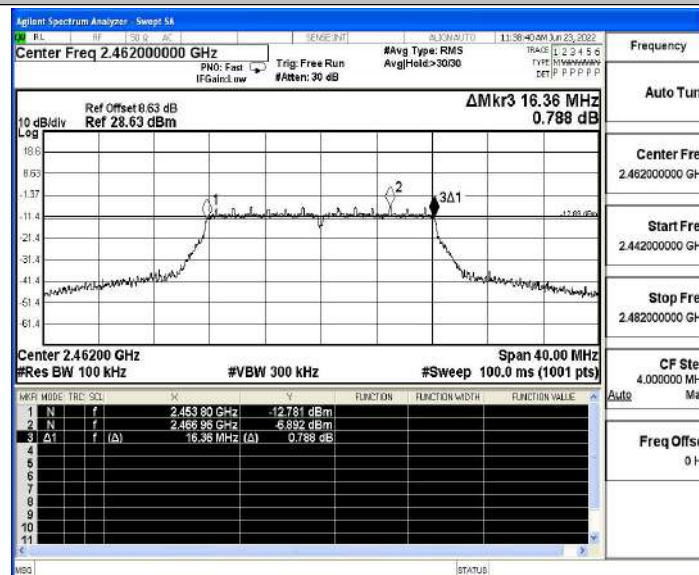


11G_Ant1_2437



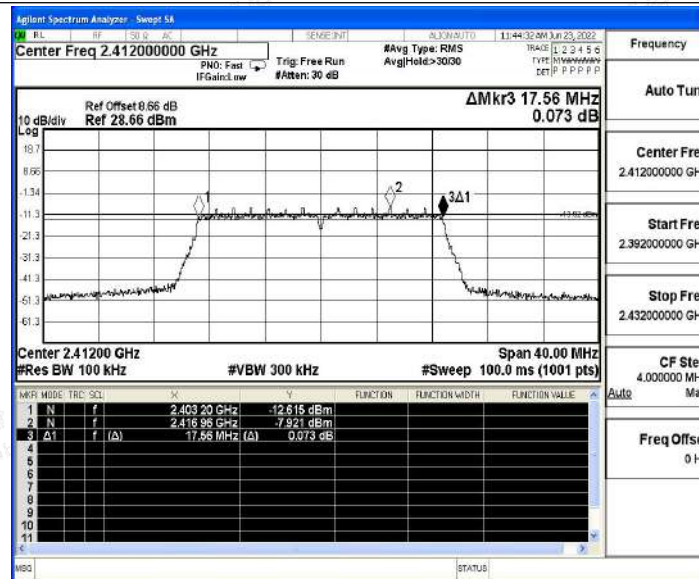


11G_Ant1_2462

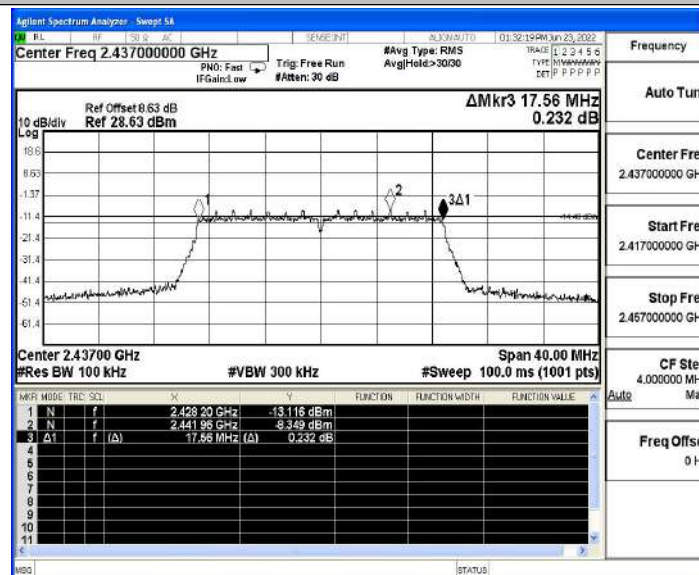


11N20SISO_Ant1_2412



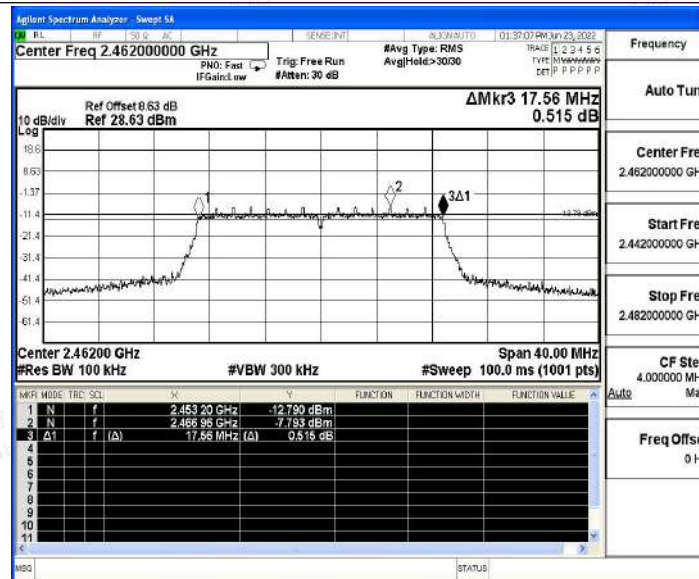


11N20SISO_Ant1_2437

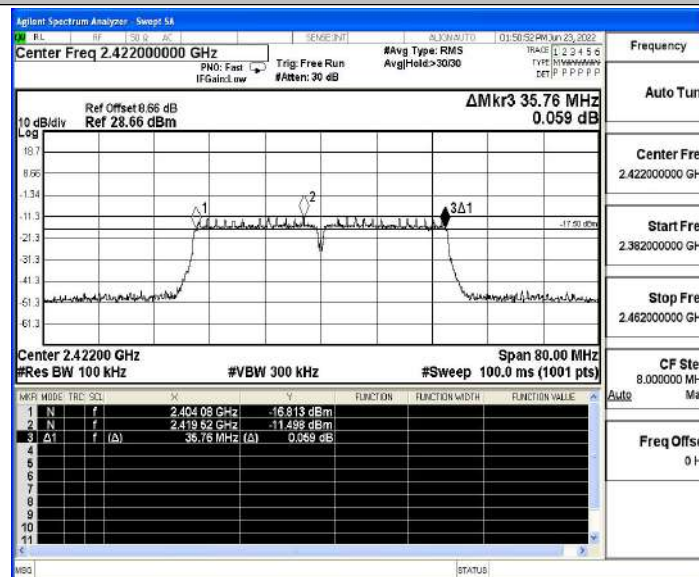


11N20SISO_Ant1_2462



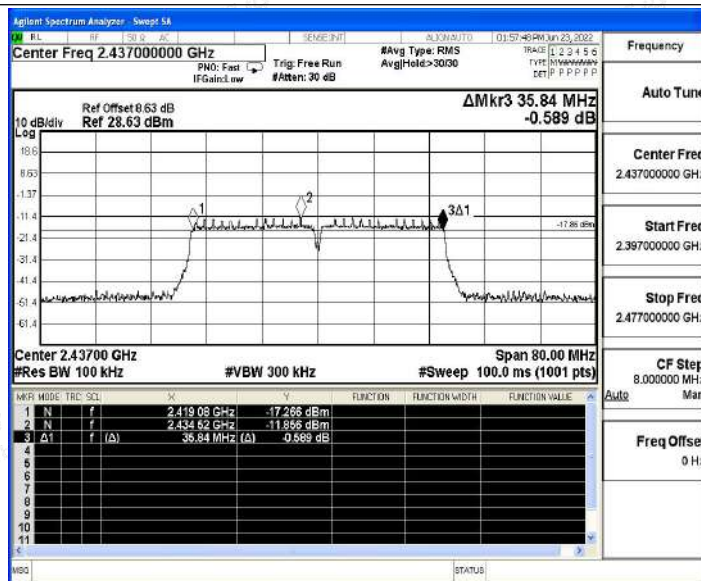


11N40SISO_Ant1_2422

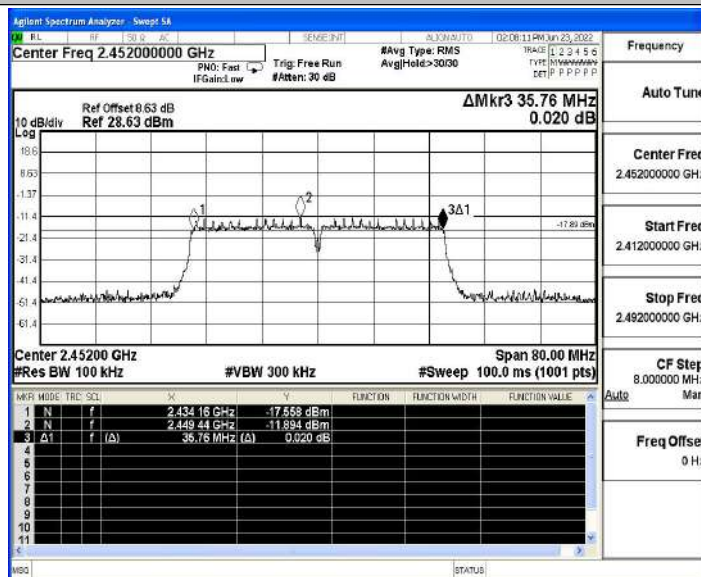


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.15	≤30.00	PASS
		2437	12.51	≤30.00	PASS
		2462	12.98	≤30.00	PASS
11G	Ant1	2412	12.53	≤30.00	PASS
		2437	12.11	≤30.00	PASS
		2462	12.53	≤30.00	PASS
11N20SISO	Ant1	2412	11.61	≤30.00	PASS
		2437	11.16	≤30.00	PASS
		2462	11.61	≤30.00	PASS
11N40SISO	Ant1	2422	10.63	≤30.00	PASS
		2437	10.33	≤30.00	PASS
		2452	10.11	≤30.00	PASS





B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.63	≤8.00	PASS
		2437	-13.8	≤8.00	PASS
		2462	-13.77	≤8.00	PASS
11G	Ant1	2412	-20.21	≤8.00	PASS
		2437	-21.54	≤8.00	PASS
		2462	-21.28	≤8.00	PASS
11N20SISO	Ant1	2412	-21.88	≤8.00	PASS
		2437	-22.43	≤8.00	PASS
		2462	-22.13	≤8.00	PASS
11N40SISO	Ant1	2422	-25.6	≤8.00	PASS
		2437	-25.99	≤8.00	PASS
		2452	-26.01	≤8.00	PASS



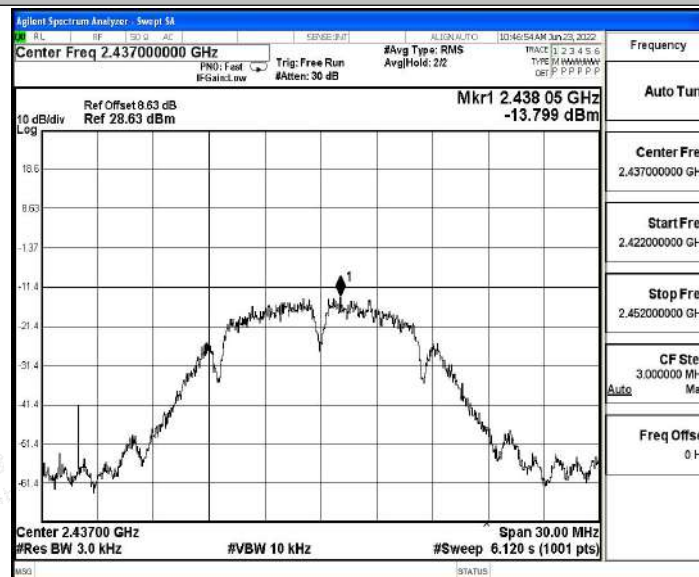


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

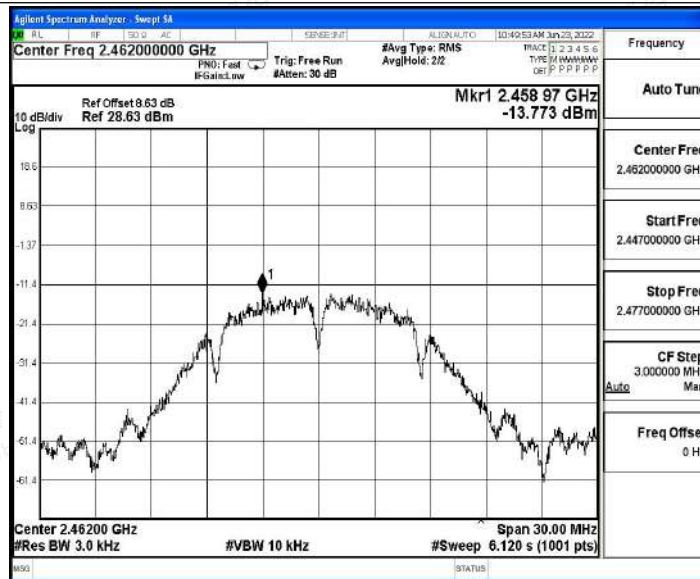


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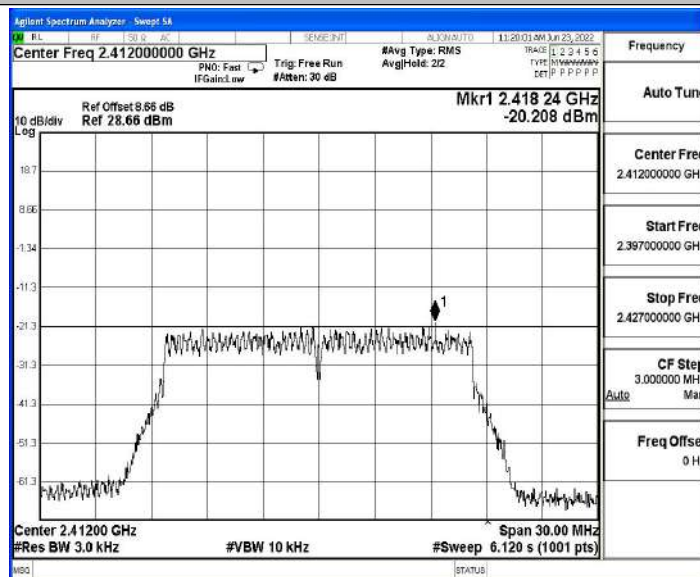
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

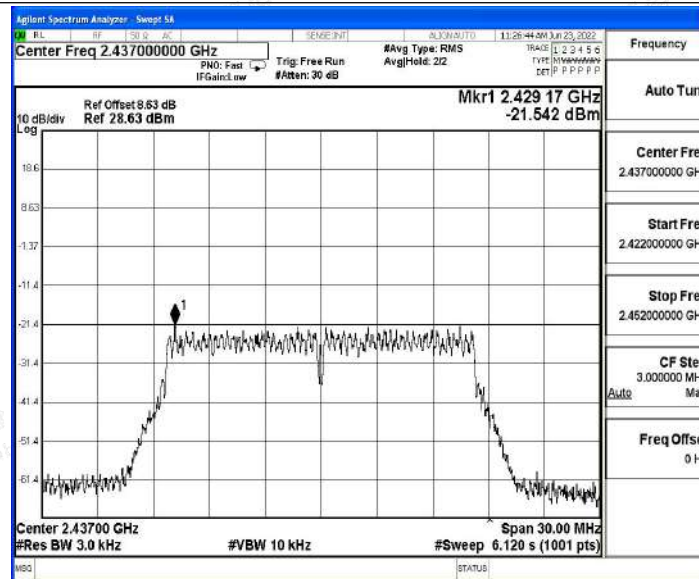


11G_Ant1_2412

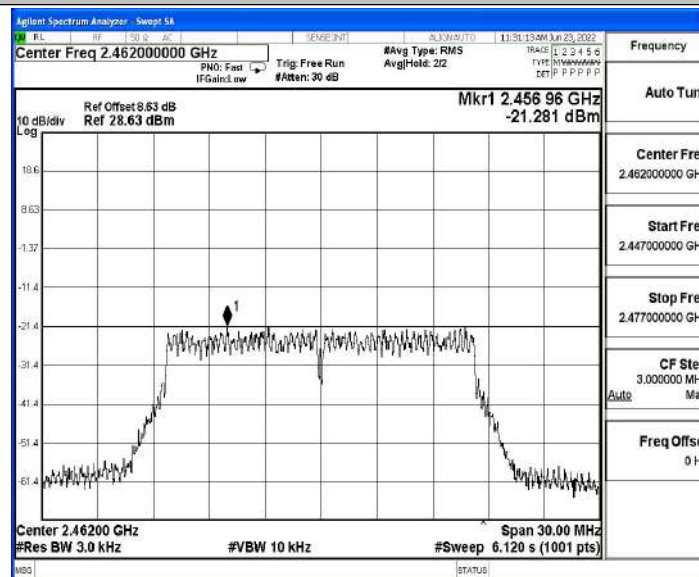


11G_Ant1_2437



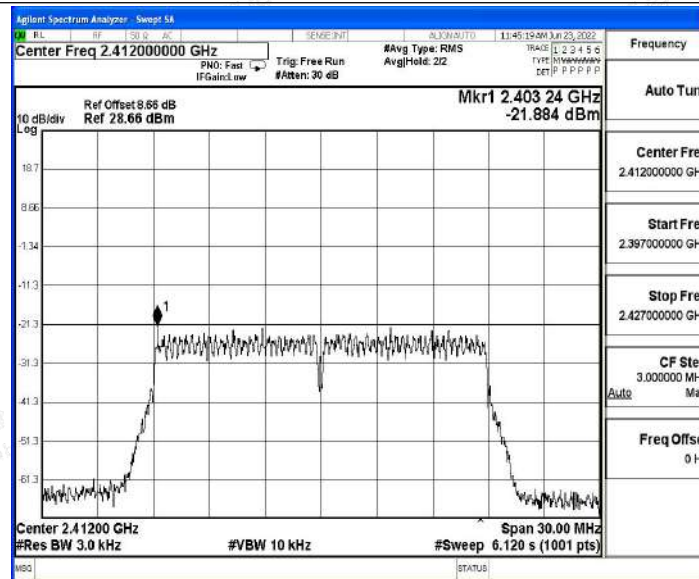


11G_Ant1_2462

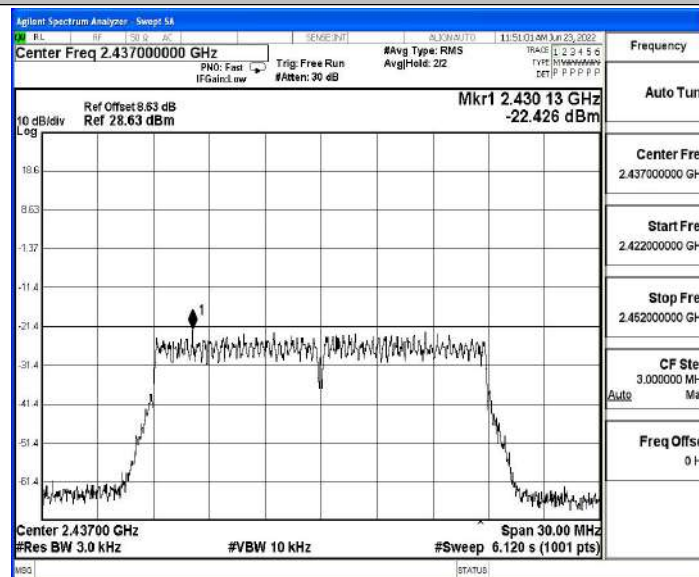


11N20SISO_Ant1_2412



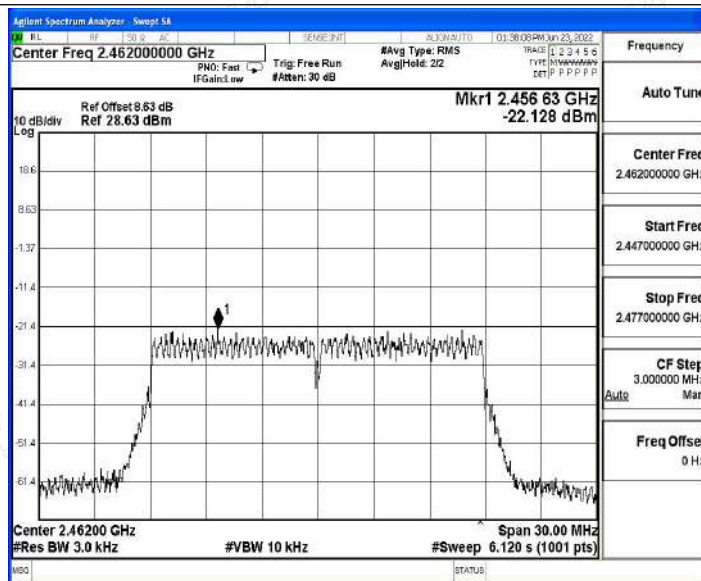


11N20SISO_Ant1_2437

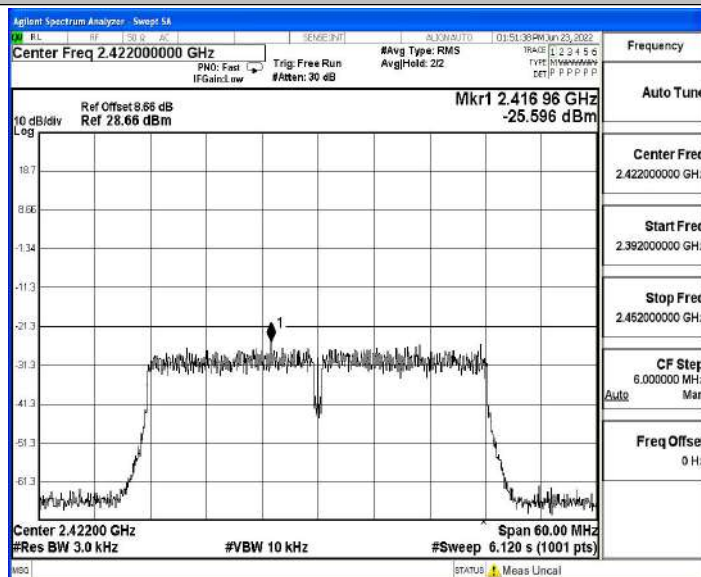


11N20SISO_Ant1_2462



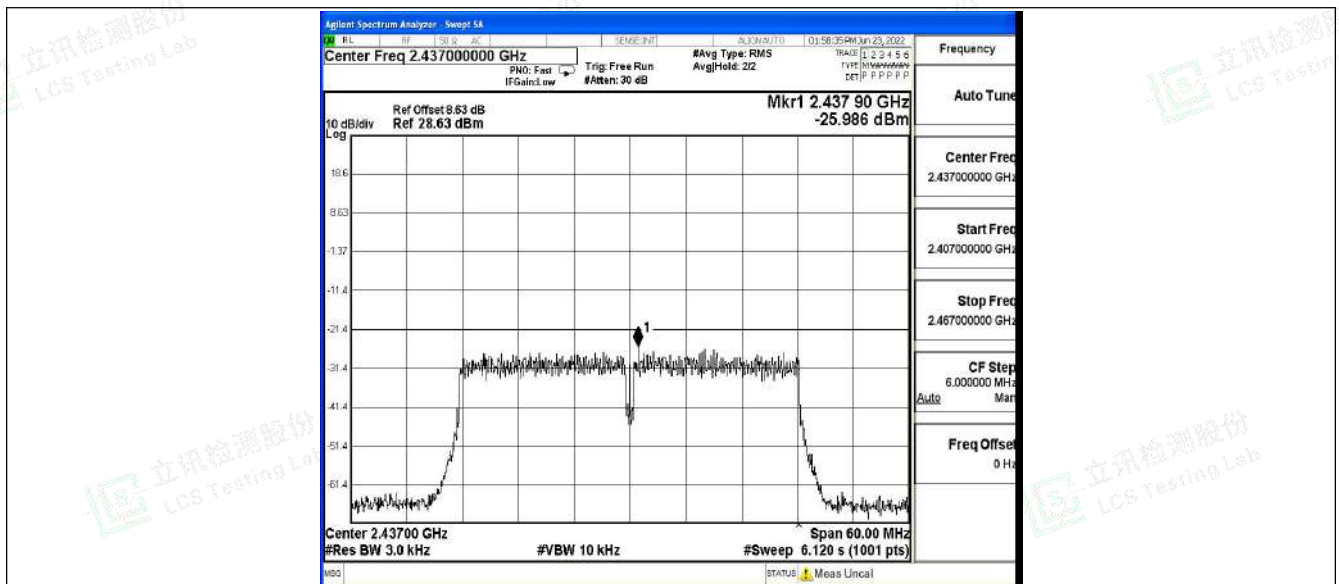


11N40SISO_Ant1_2422

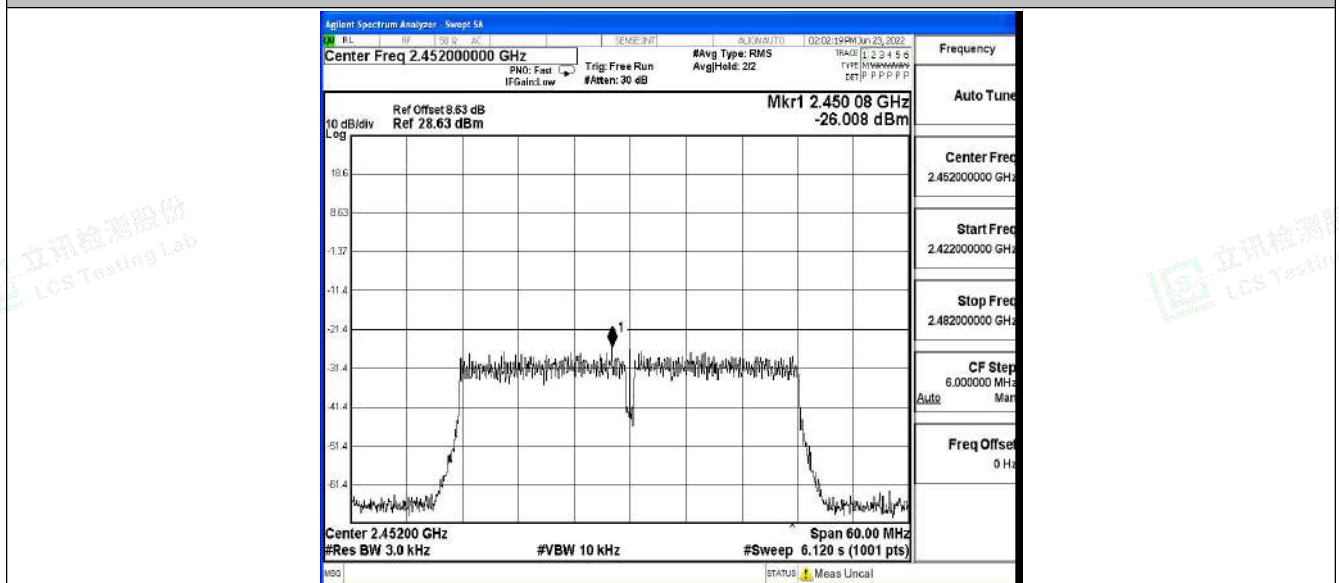


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.4 Band edge measurements

Test Result

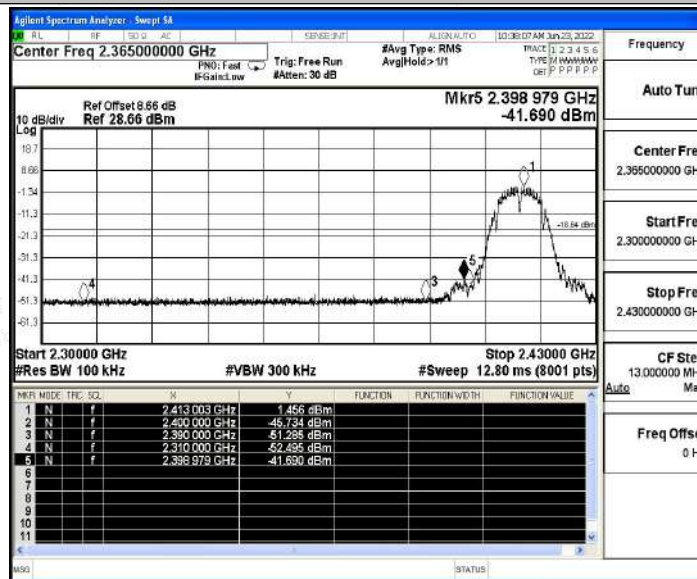
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.36	-41.69	≤ -18.64	PASS
		High	2462	1.19	-47.86	≤ -18.81	PASS
11G	Ant1	Low	2412	-7.06	-42.74	≤ -27.06	PASS
		High	2462	-6.55	-46.34	≤ -26.55	PASS
11N20SISO	Ant1	Low	2412	-8.11	-45.74	≤ -28.11	PASS
		High	2462	-7.49	-46.79	≤ -27.49	PASS
11N40SISO	Ant1	Low	2422	-11.44	-46.46	≤ -31.44	PASS
		High	2452	-11.87	-46.01	≤ -31.87	PASS



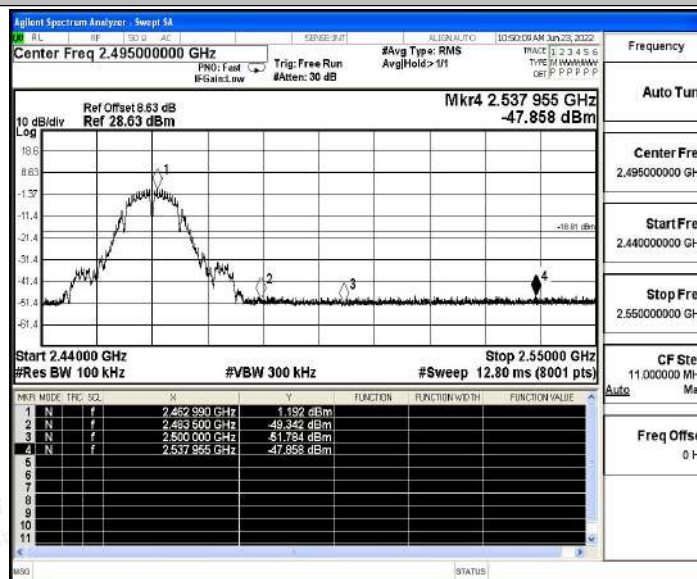


Test Graphs

11B_Ant1_Low_2412

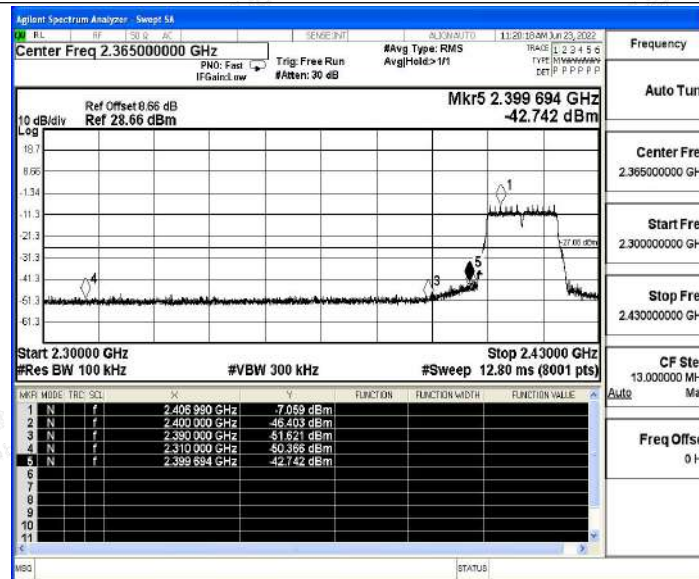


11B_Ant1_High_2462

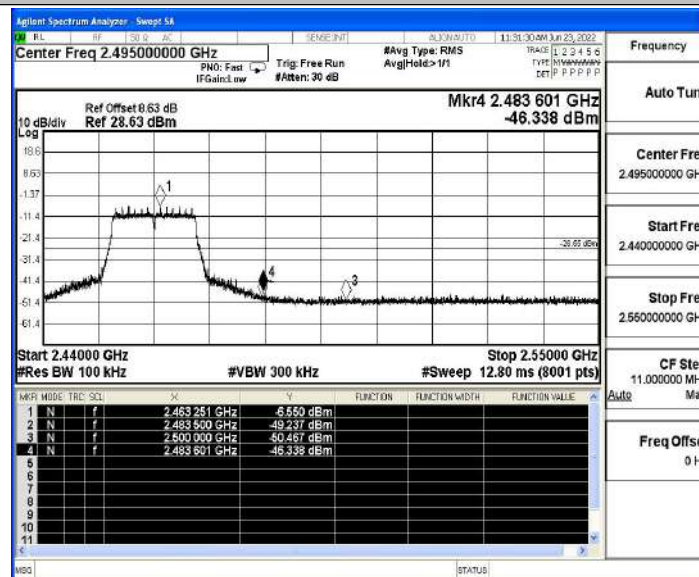


11G_Ant1_Low_2412



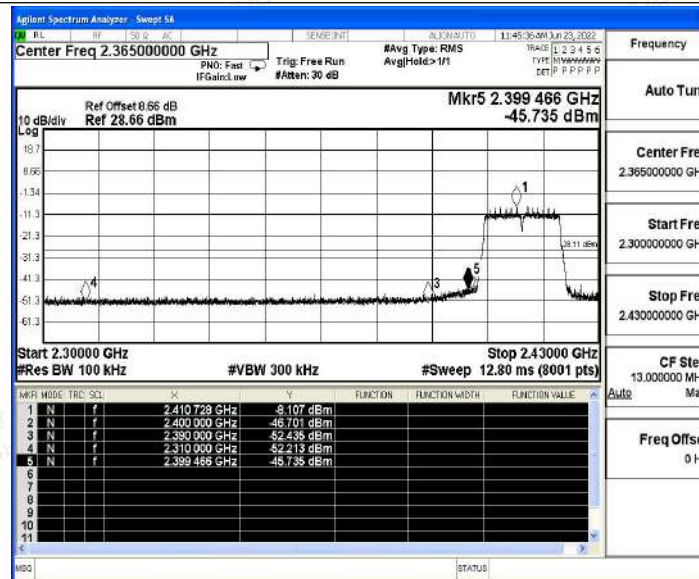


11G_Ant1_High_2462

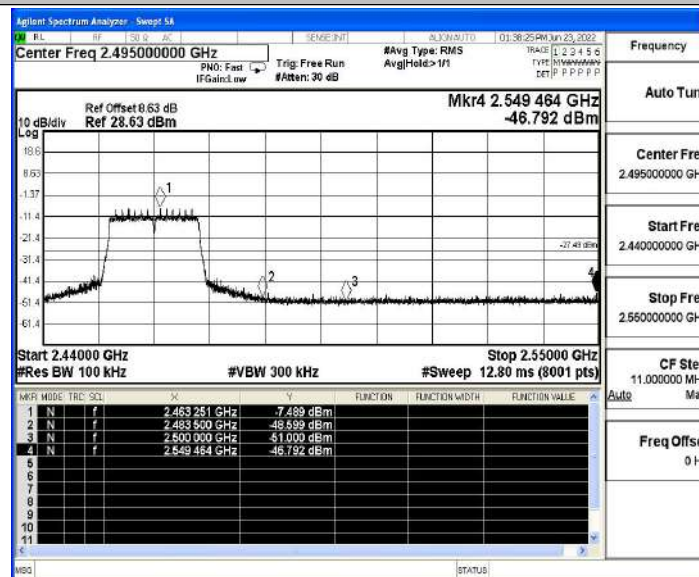


11N20SISO_Ant1_Low_2412



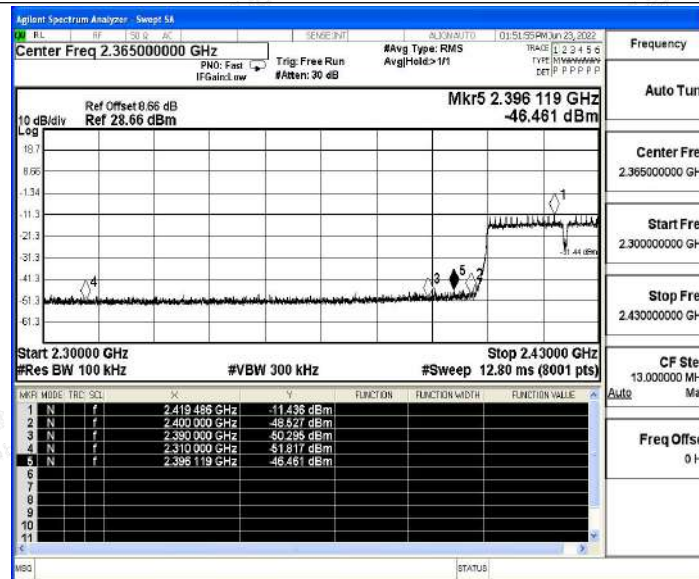


11N20SISO_Ant1_High_2462

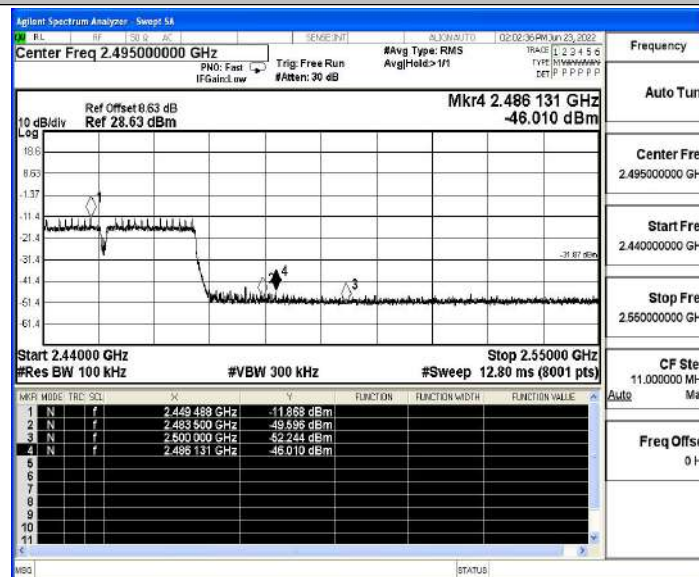


11N40SISO_Ant1_Low_2422





11N40SISO_Ant1_High_2452





B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-42.36	≤-18.82	PASS
			1000~26500	1.18	-45.54	≤-18.82	PASS
		2437	Reference	0.77	0.77	---	PASS
			30~1000	0.77	-60.28	≤-19.23	PASS
			1000~26500	0.77	-46.33	≤-19.23	PASS
		2462	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-60.21	≤-18.94	PASS
			1000~26500	1.06	-45.73	≤-18.94	PASS
11G	Ant1	2412	Reference	-6.84	-6.84	---	PASS
			30~1000	-6.84	-51.3	≤-26.84	PASS
			1000~26500	-6.84	-45.97	≤-26.84	PASS
		2437	Reference	-6.90	-6.90	---	PASS
			30~1000	-6.90	-51.57	≤-26.9	PASS
			1000~26500	-6.90	-45.6	≤-26.9	PASS
		2462	Reference	-6.91	-6.91	---	PASS
			30~1000	-6.91	-60.71	≤-26.91	PASS
			1000~26500	-6.91	-45.21	≤-26.91	PASS
11N20SISO	Ant1	2412	Reference	-7.66	-7.66	---	PASS
			30~1000	-7.66	-60.66	≤-27.66	PASS
			1000~26500	-7.66	-45.63	≤-27.66	PASS
		2437	Reference	-7.96	-7.96	---	PASS
			30~1000	-7.96	-60	≤-27.96	PASS
			1000~26500	-7.96	-45.15	≤-27.96	PASS
		2462	Reference	-7.39	-7.39	---	PASS
			30~1000	-7.39	-59.39	≤-27.39	PASS
			1000~26500	-7.39	-45.23	≤-27.39	PASS
11N40SISO	Ant1	2422	Reference	-11.57	-11.57	---	PASS
			30~1000	-11.57	-59.97	≤-31.57	PASS
			1000~26500	-11.57	-45.42	≤-31.57	PASS
		2437	Reference	-11.79	-11.79	---	PASS
			30~1000	-11.79	-60.47	≤-31.79	PASS
			1000~26500	-11.79	-44.77	≤-31.79	PASS
		2452	Reference	-12.04	-12.04	---	PASS
			30~1000	-12.04	-60.51	≤-32.04	PASS



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			1000~26500	-12.04	-46.1	≤-32.04	PASS
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Scan code to check authenticity

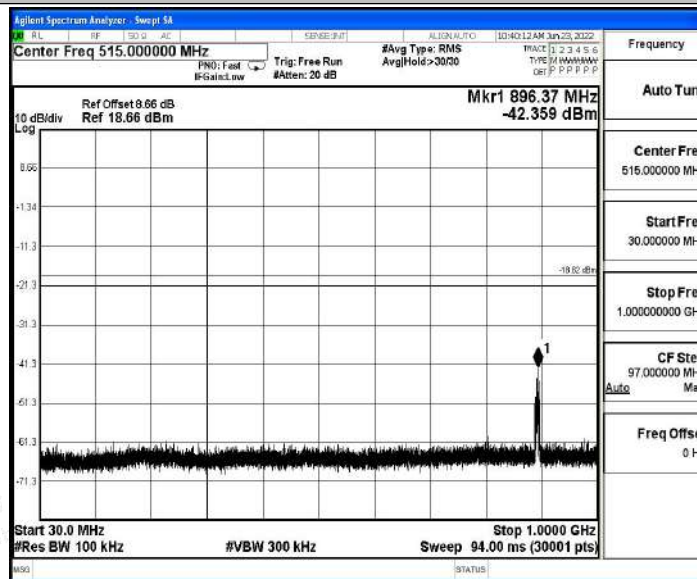


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000

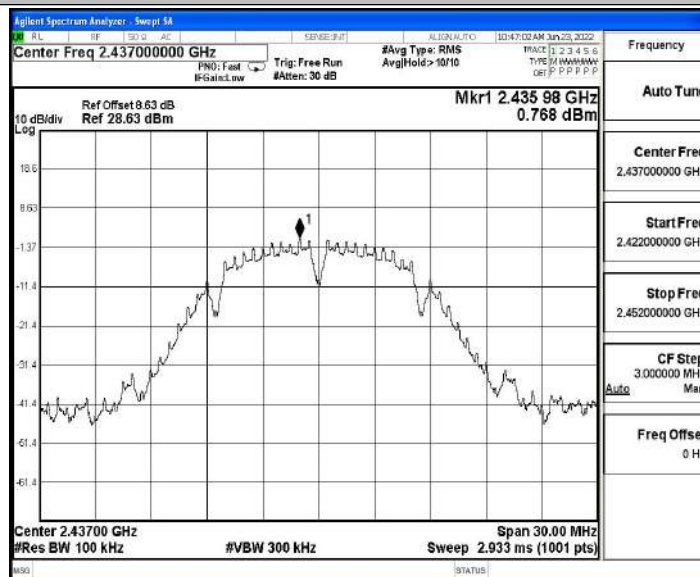


11B_Ant1_2412_1000~26500



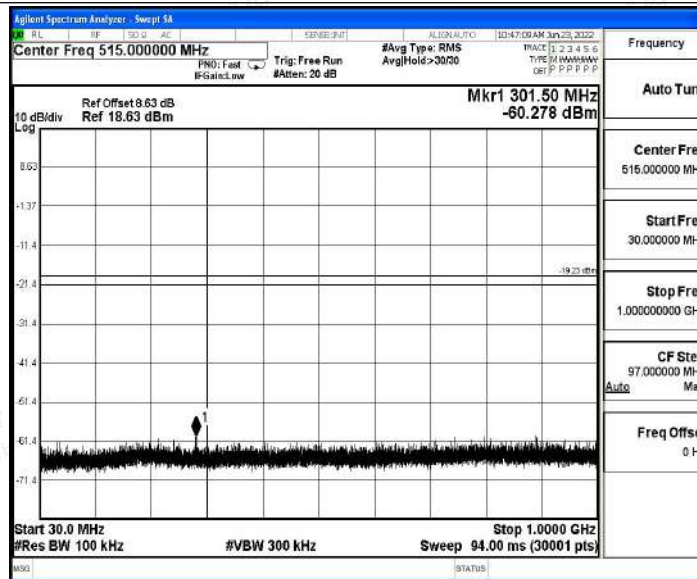


11B_Ant1_2437_0~Reference

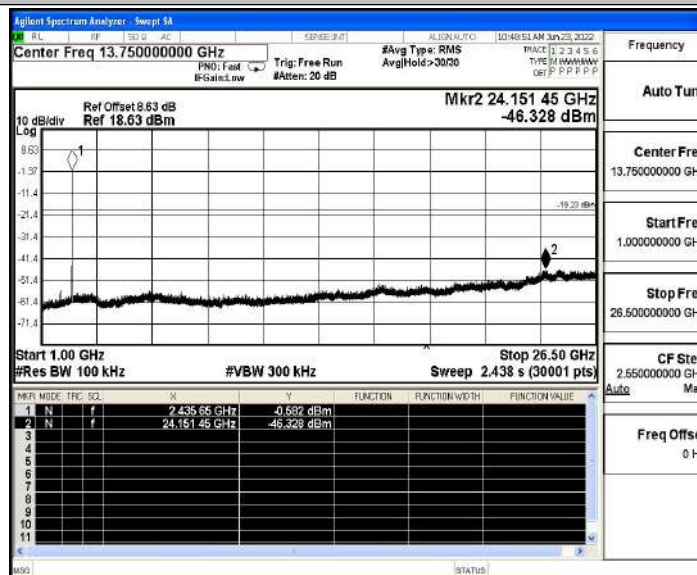


11B_Ant1_2437_30~1000



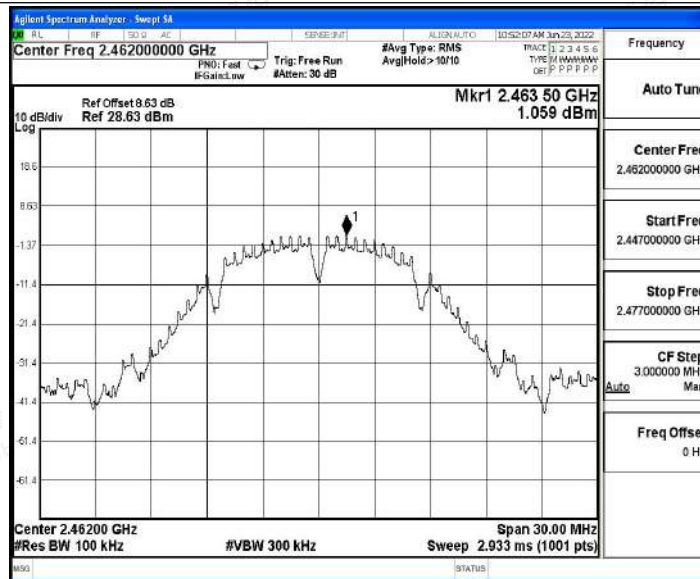


11B_Ant1_2437_1000~26500

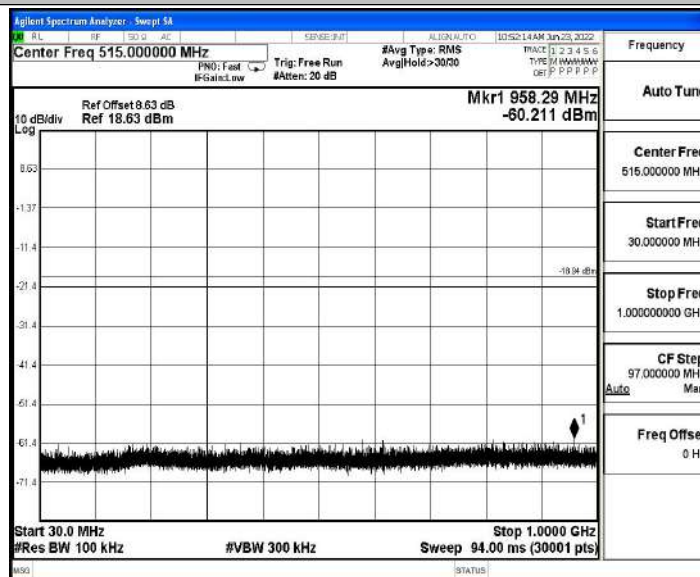


11B_Ant1_2462_0~Reference



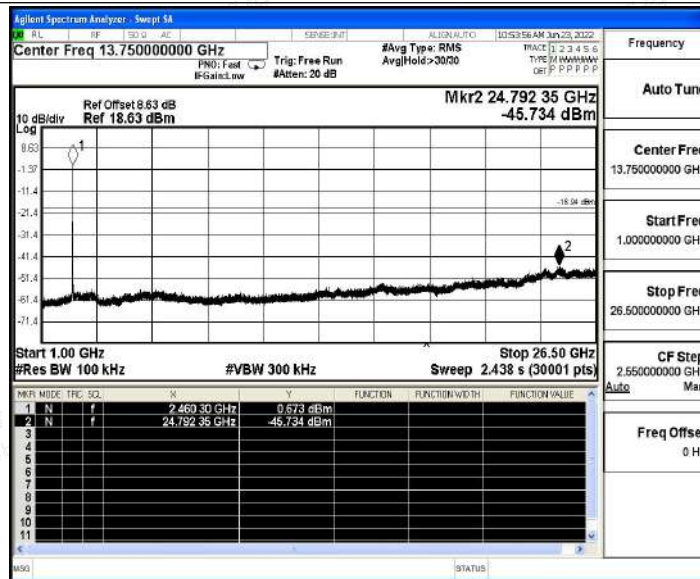


11B_Ant1_2462_30~1000

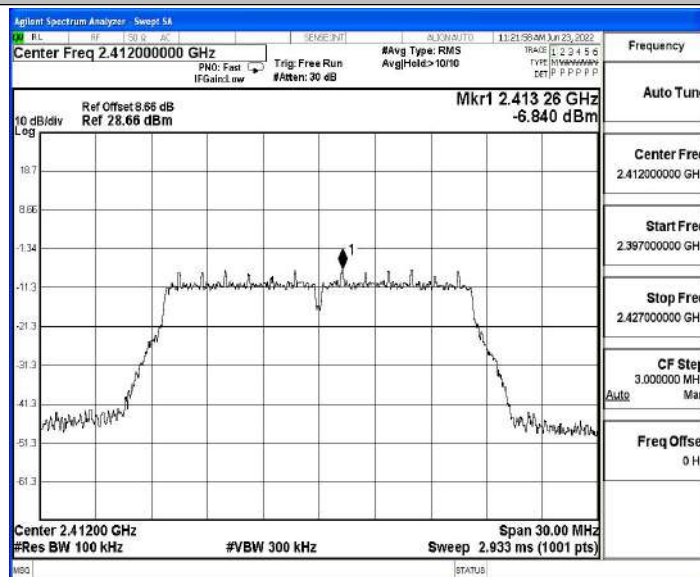


11B_Ant1_2462_1000~26500



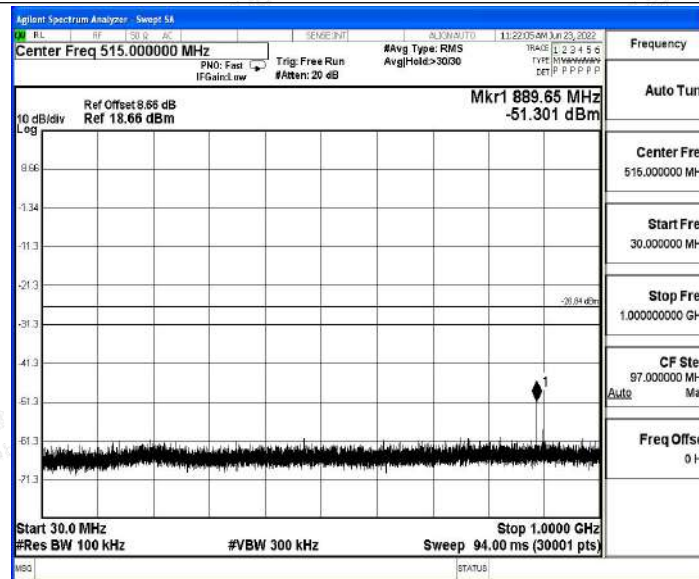


11G_Ant1_2412_0~Reference

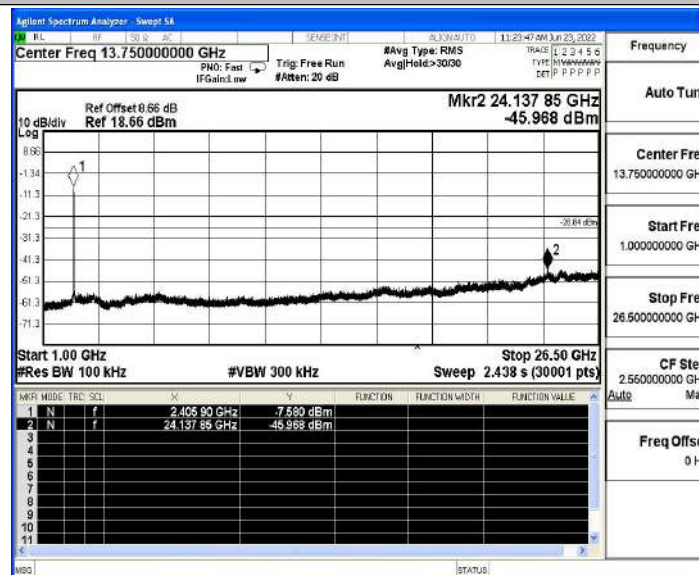


11G_Ant1_2412_30~1000



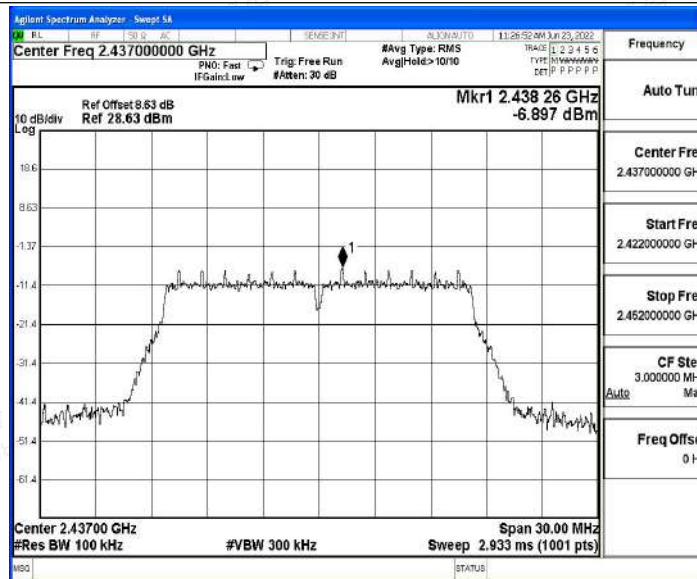


11G_Ant1_2412_1000~26500

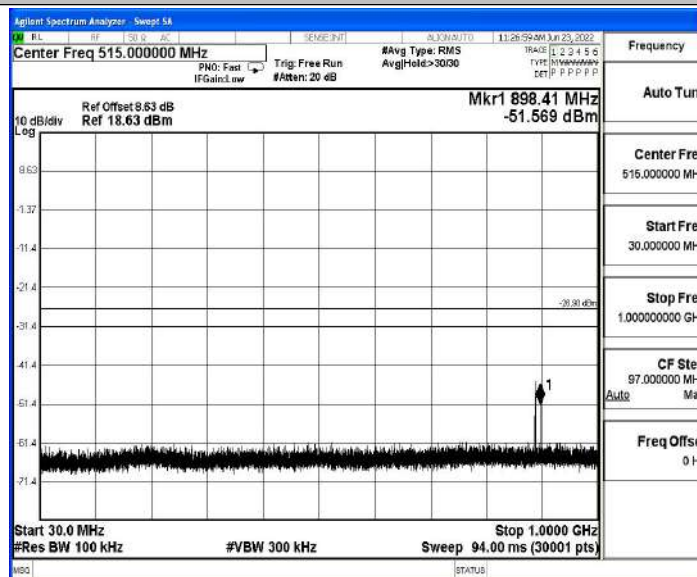


11G_Ant1_2437_0~Reference



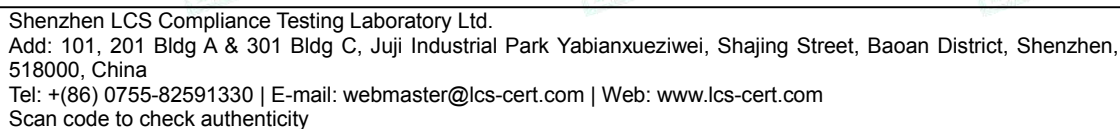
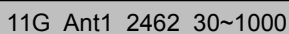


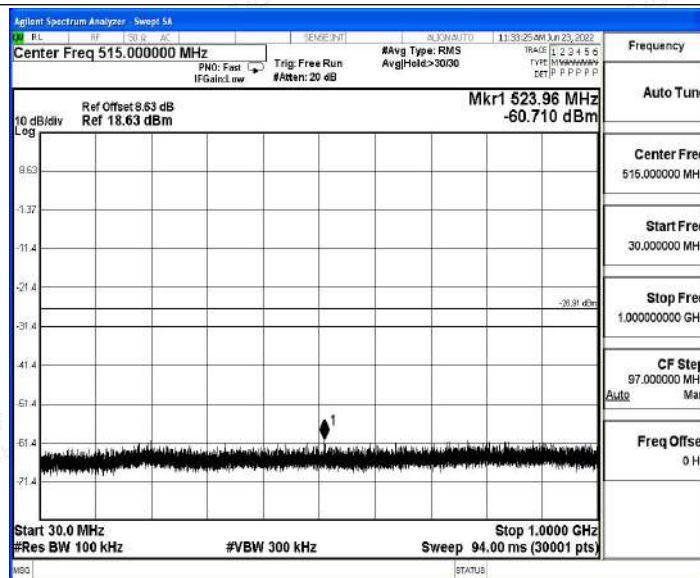
11G_Ant1_2437_30~1000



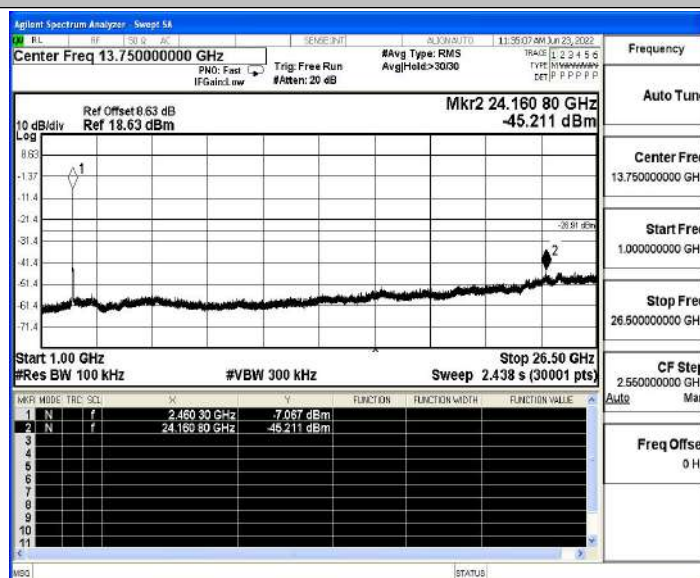
11G_Ant1_2437_1000~26500





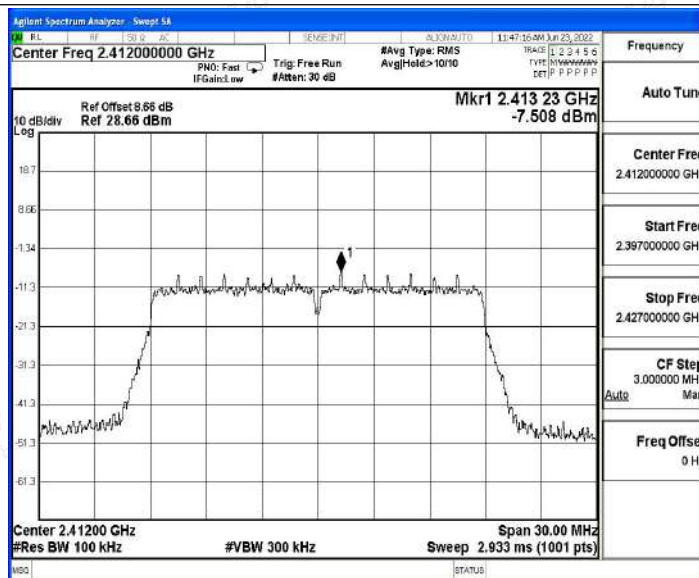


11G_Ant1_2462_1000~26500

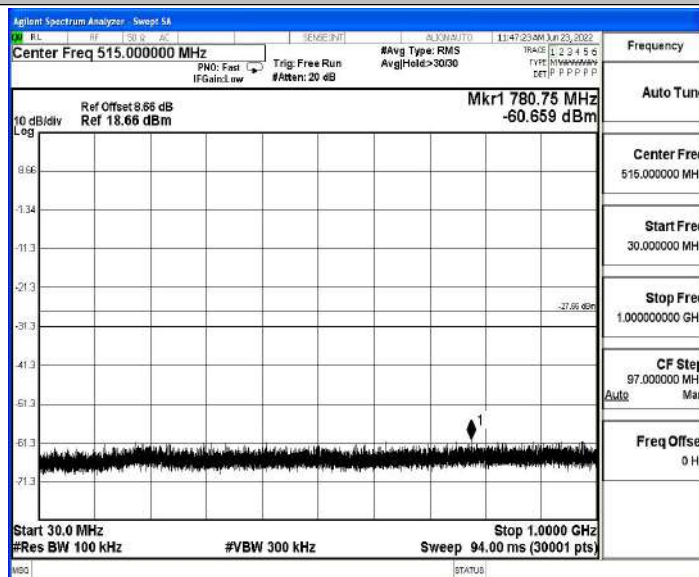


11N20SISO_Ant1_2412_0~Reference



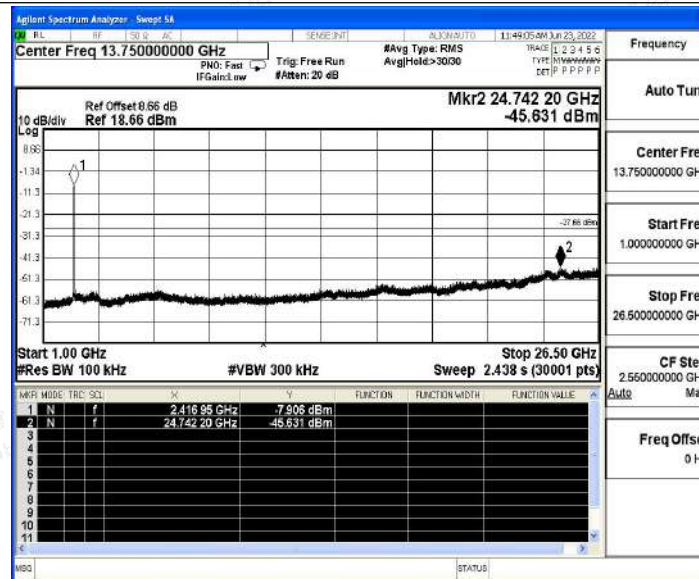


11N20SISO_Ant1_2412_30~1000

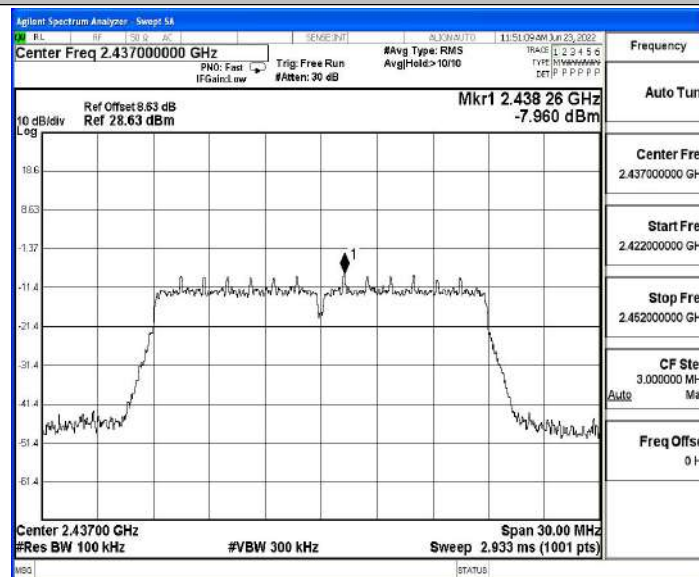


11N20SISO_Ant1_2412_1000~26500



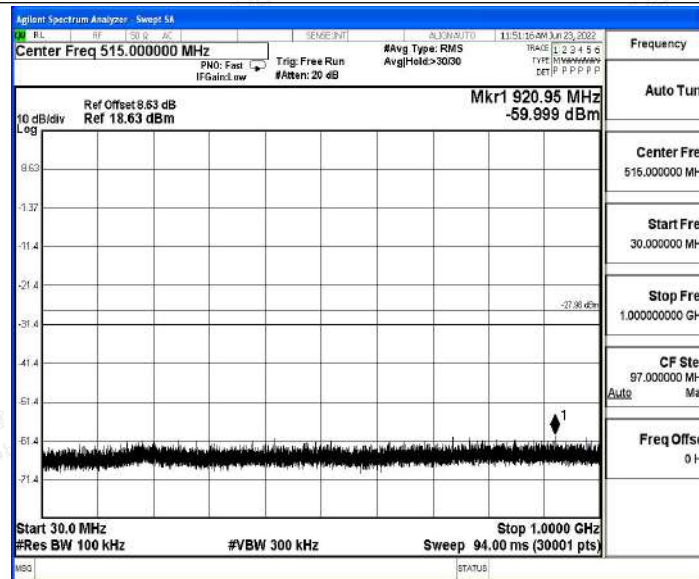


11N20SISO_Ant1_2437_0~Reference

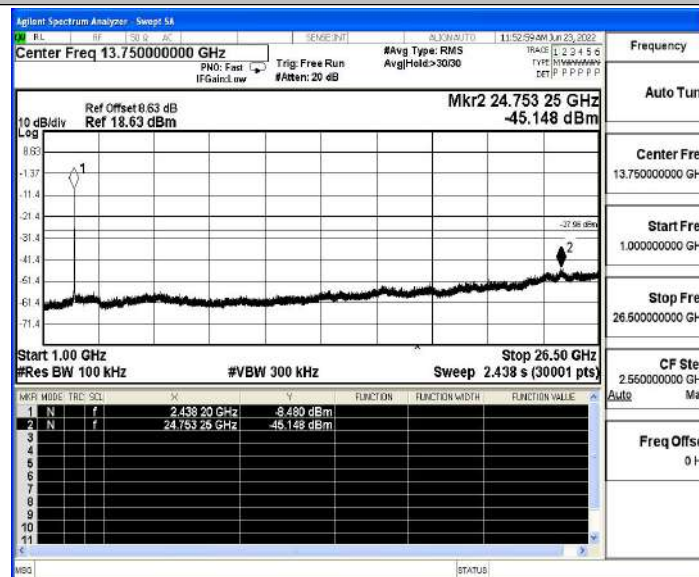


11N20SISO_Ant1_2437_30~1000



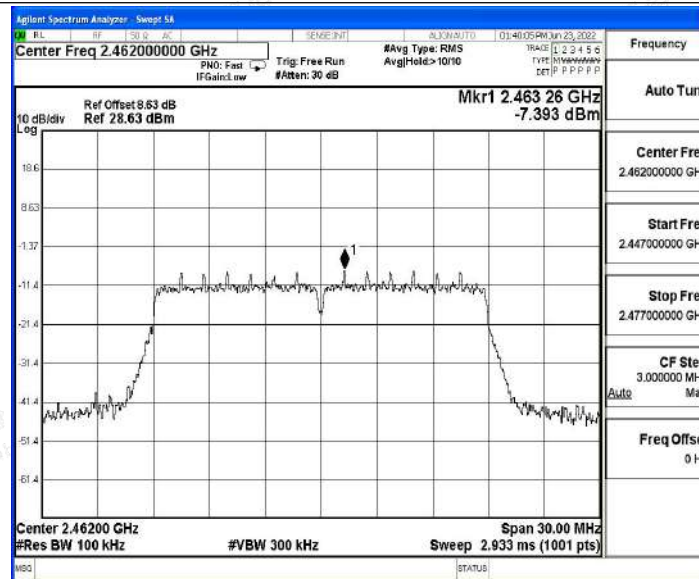


11N20SISO_Ant1_2437_1000~26500

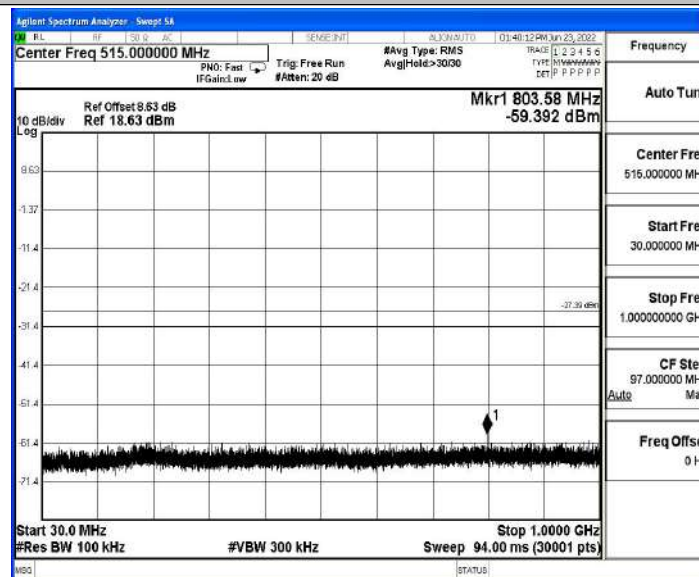


11N20SISO_Ant1_2462_0~Reference



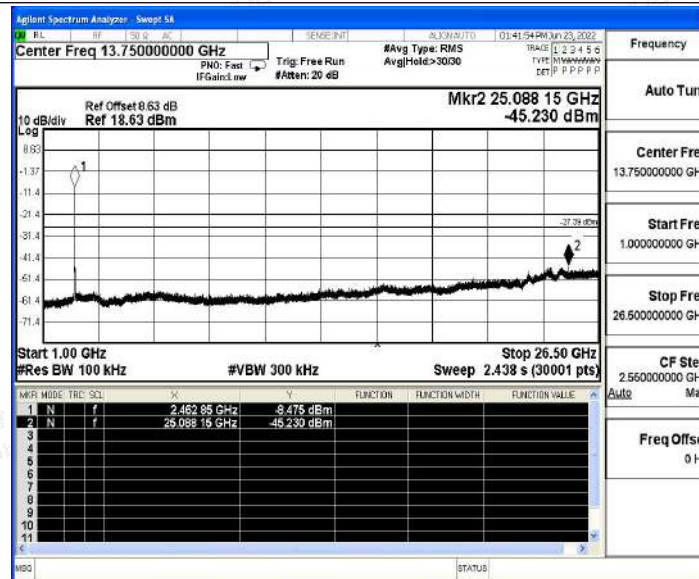


11N20SISO_Ant1_2462_30~1000

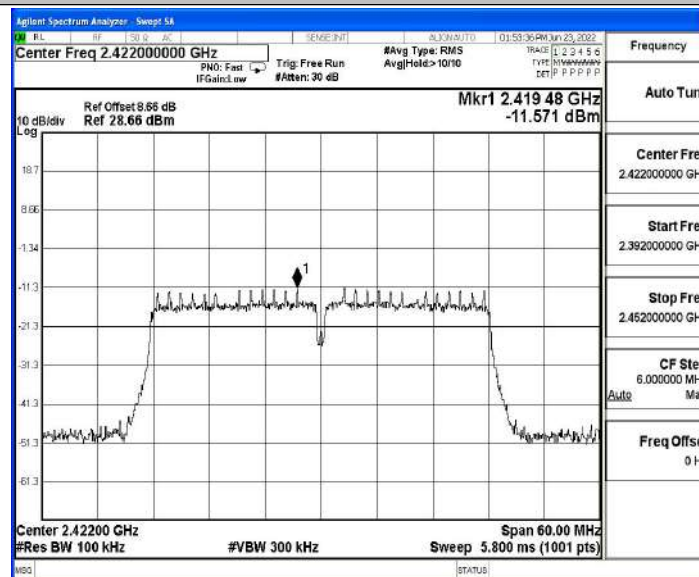


11N20SISO_Ant1_2462_1000~26500



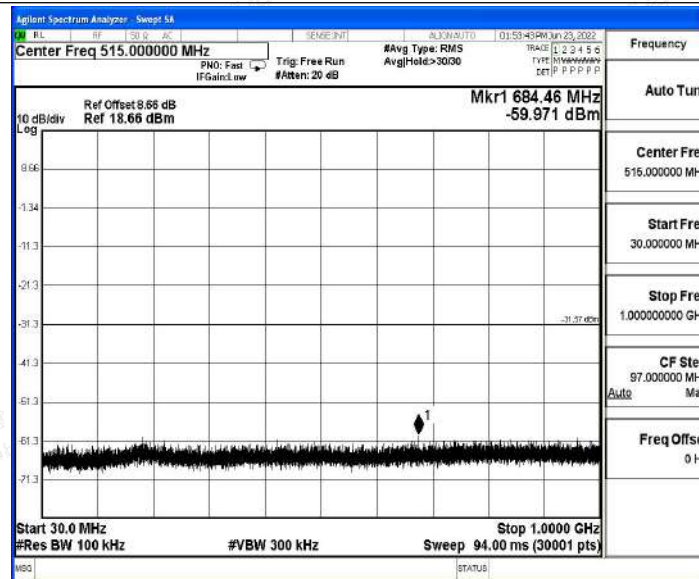


11N40SISO_Ant1_2422_0~Reference

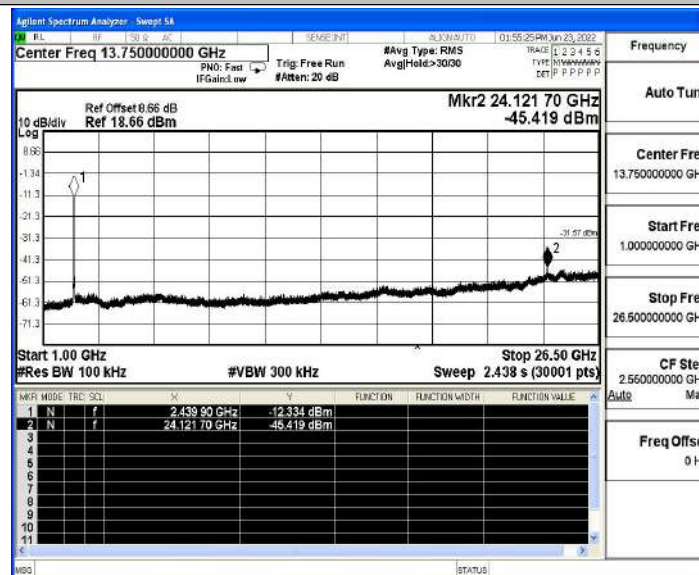


11N40SISO_Ant1_2422_30~1000



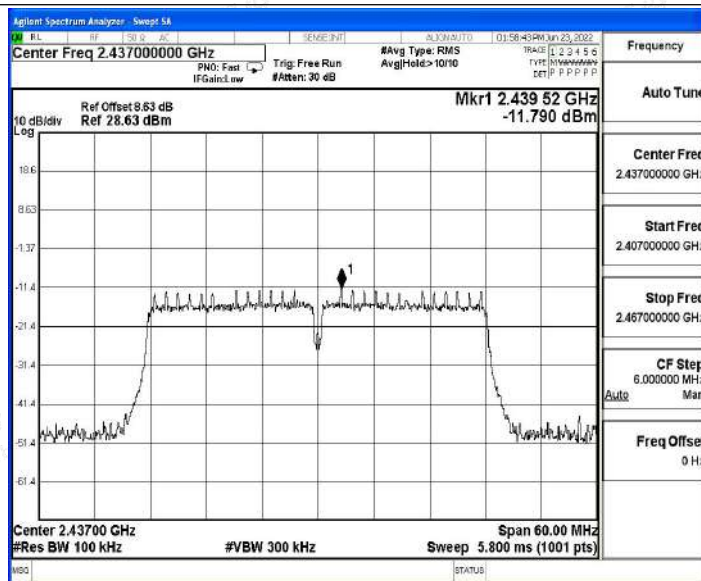


11N40SISO_Ant1_2422_1000~26500

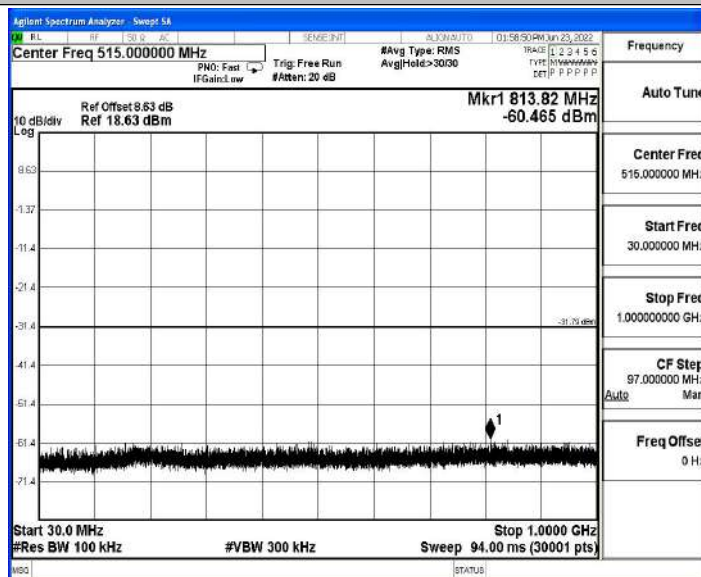


11N40SISO_Ant1_2437_0~Reference



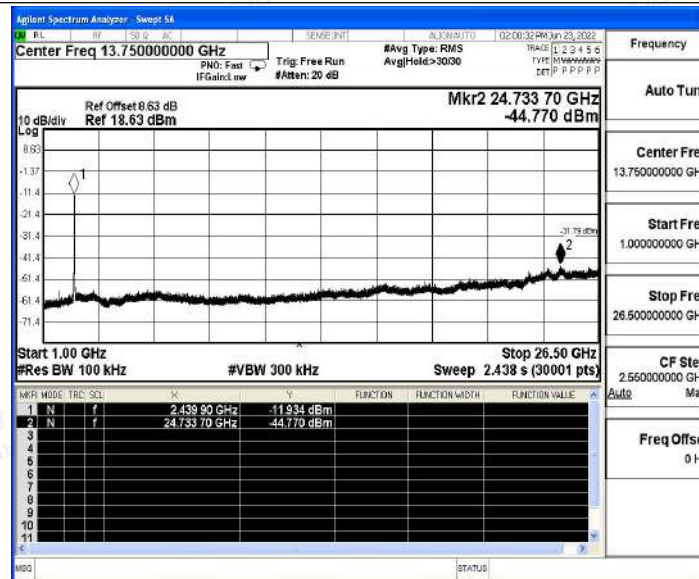


11N40SISO_Ant1_2437_30~1000

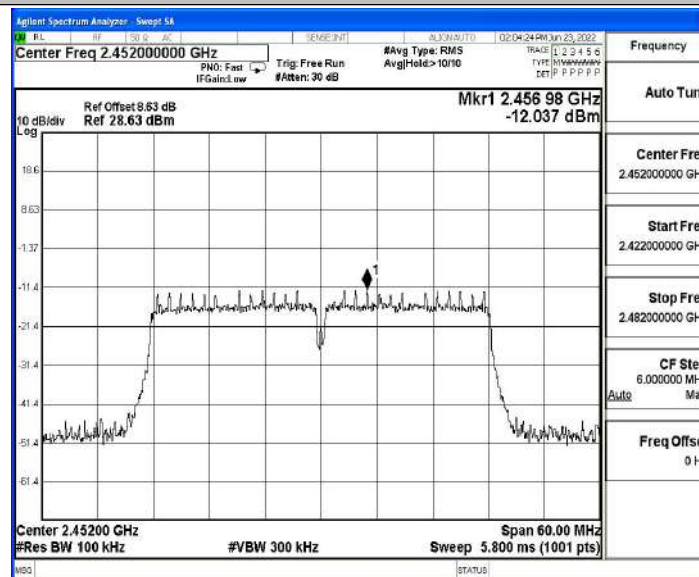


11N40SISO_Ant1_2437_1000~26500



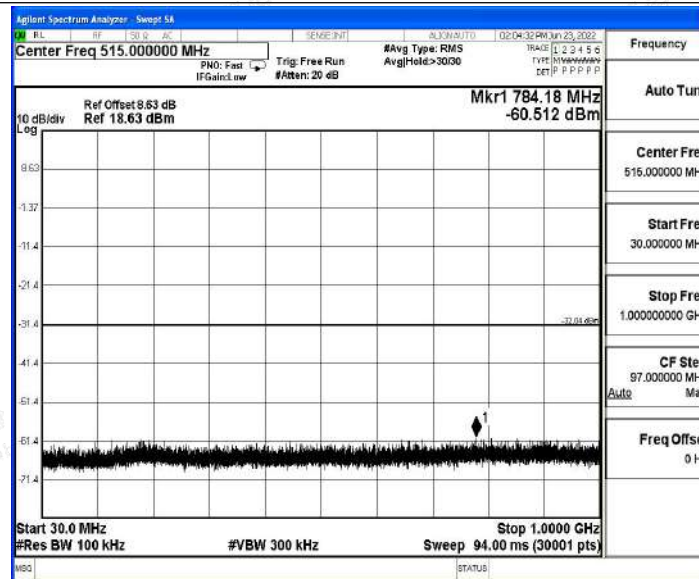


11N40SISO_Ant1_2452_0~Reference

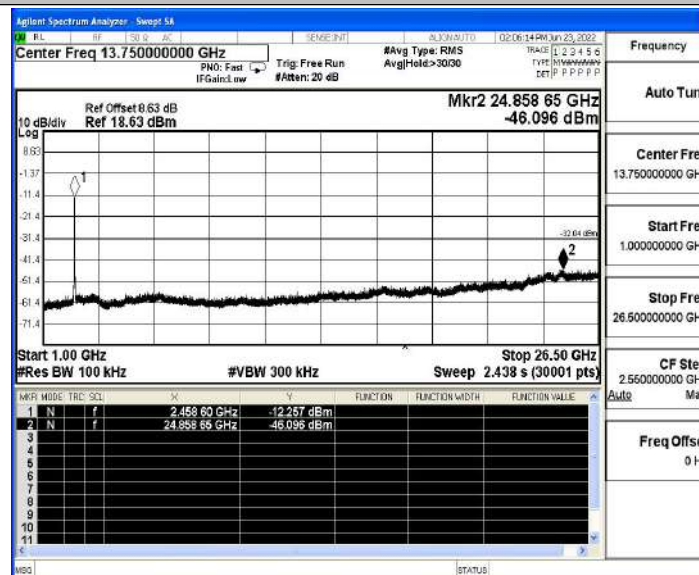


11N40SISO_Ant1_2452_30~1000





11N40SISO_Ant1_2452_1000~26500





B.6 Duty Cycle

Test Result

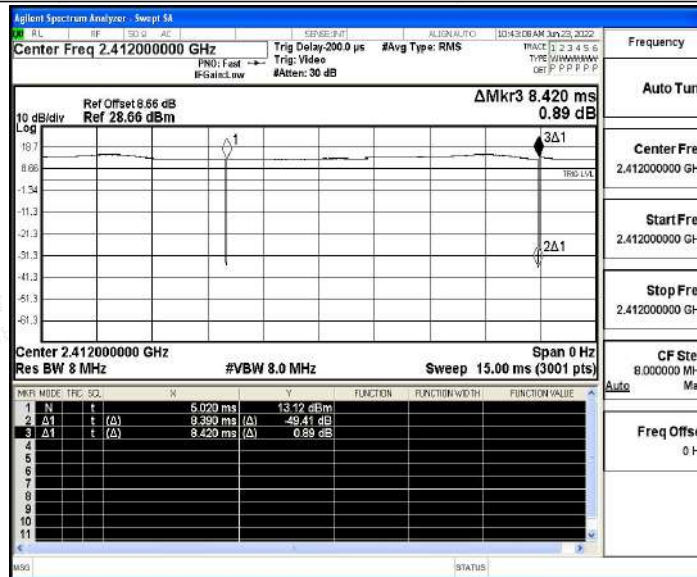
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.39	8.42	99.64	---	---
		2437	8.39	8.42	99.64	---	---
		2462	8.38	8.41	99.64	---	---
11G	Ant1	2412	1.39	1.43	97.20	---	---
		2437	1.39	1.43	97.20	---	---
		2462	1.39	1.43	97.20	---	---
11N20SISO	Ant1	2412	1.30	1.34	97.01	---	---
		2437	1.30	1.34	97.01	---	---
		2462	1.30	1.33	97.74	---	---
11N40SISO	Ant1	2422	0.65	0.68	95.59	---	---
		2437	0.65	0.68	95.59	---	---
		2452	0.65	0.68	95.59	---	---



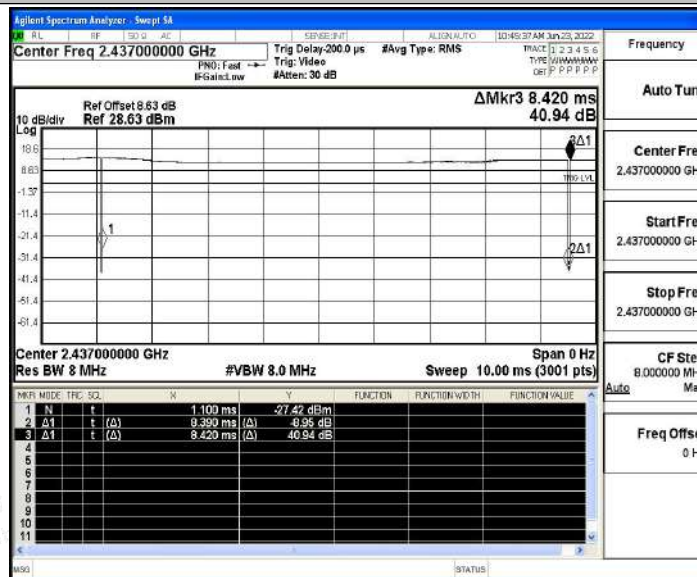


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

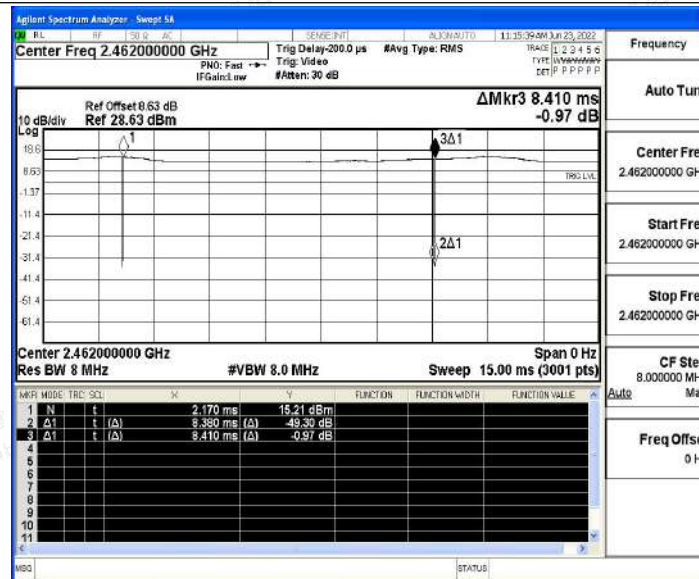


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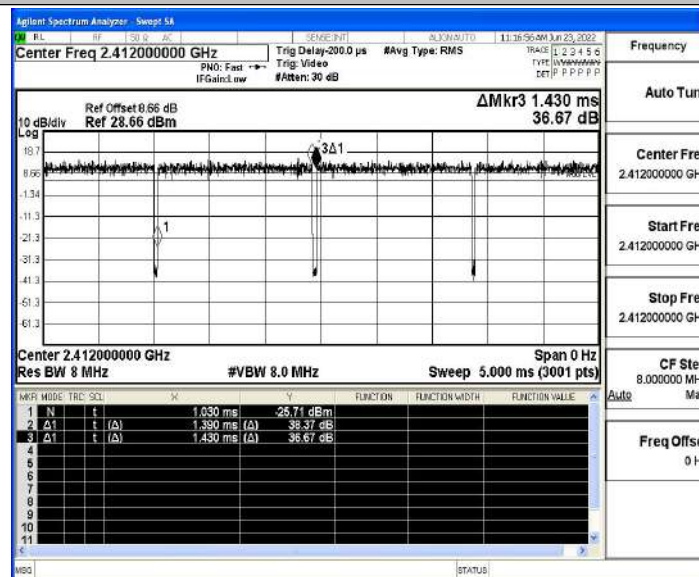
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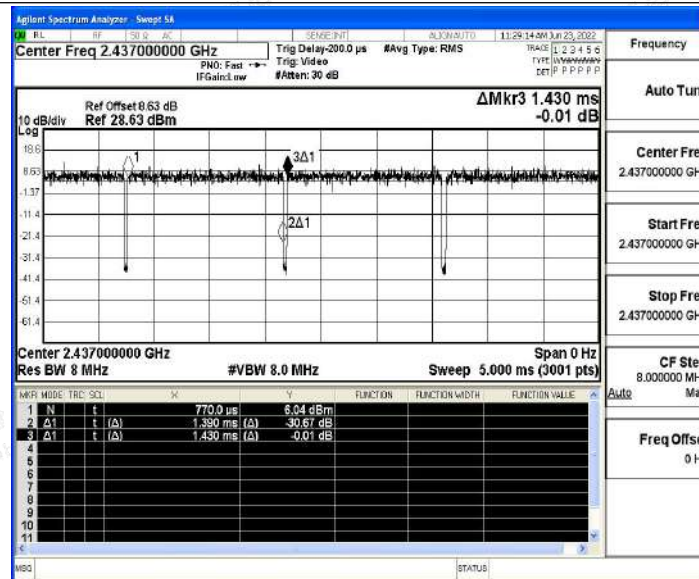


11G_Ant1_2412

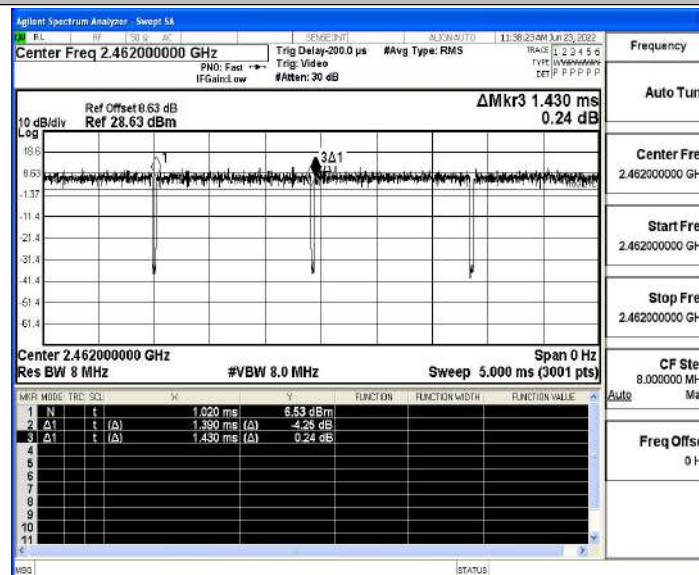


11G_Ant1_2437



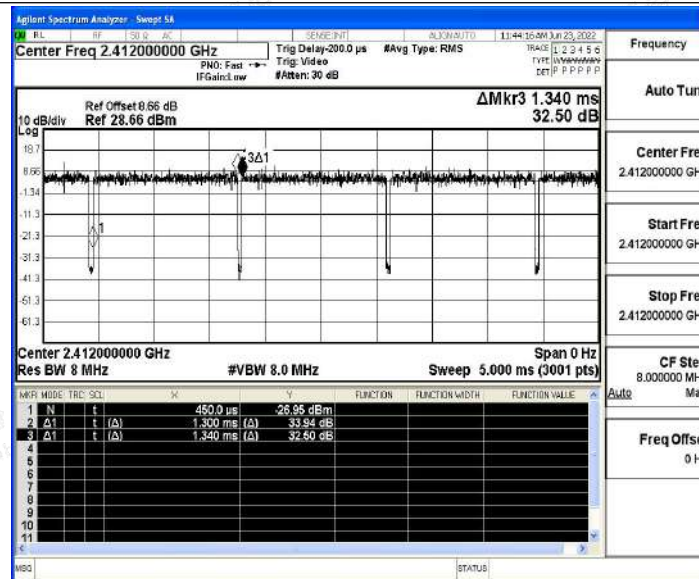


11G_Ant1_2462

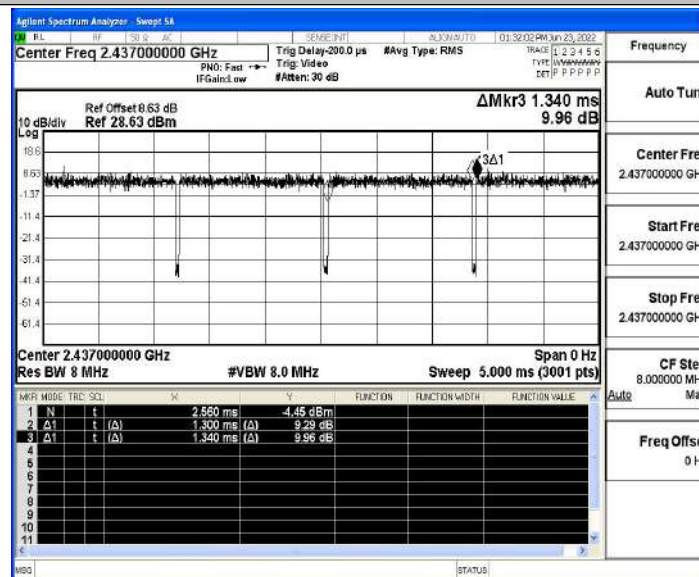


11N20SISO_Ant1_2412



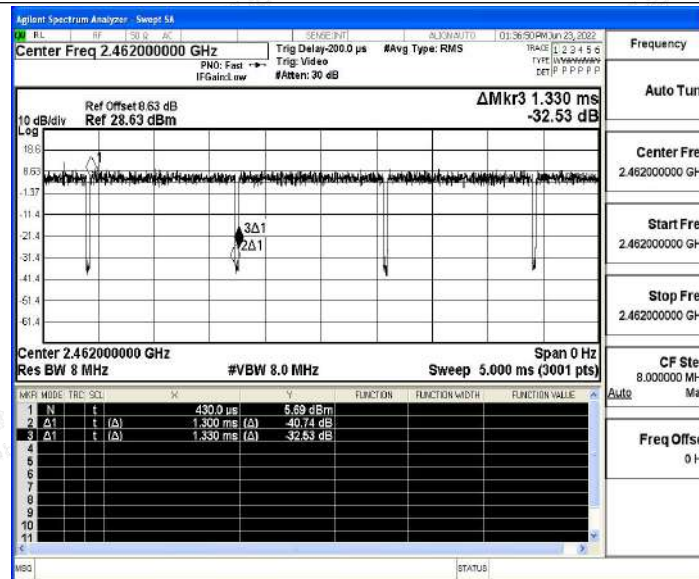


11N20SISO_Ant1_2437

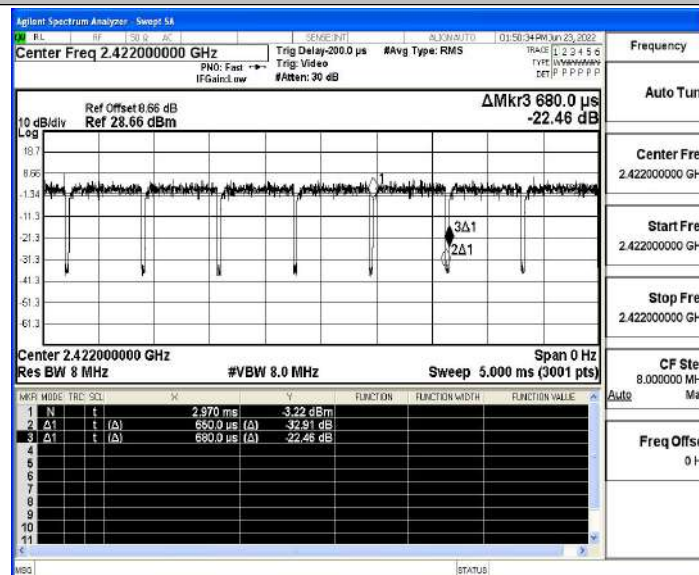


11N20SISO_Ant1_2462



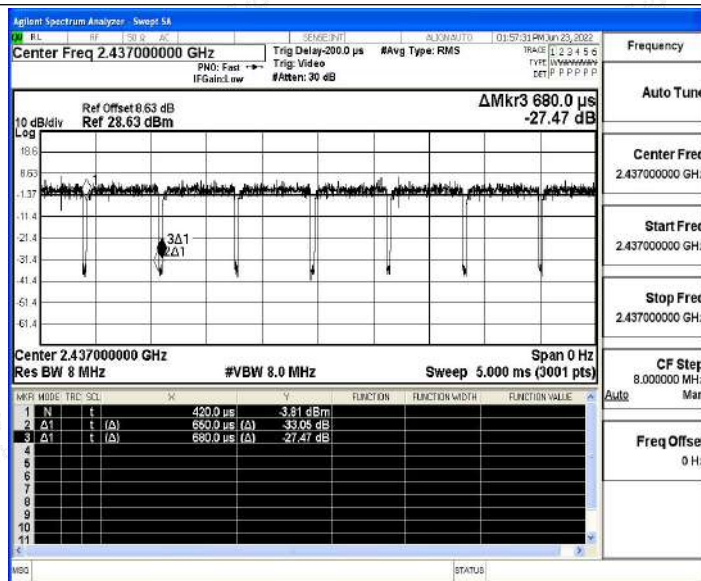


11N40SISO_Ant1_2422

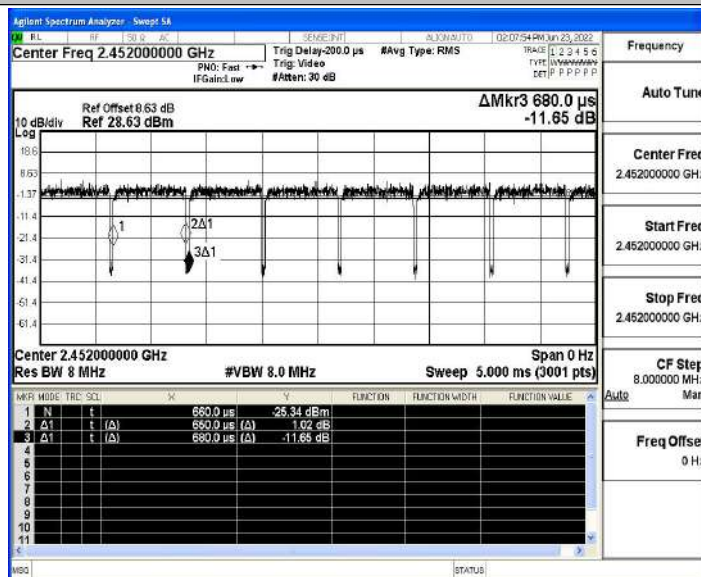


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-58.09	≤-41.20	37.11	≤54	PASS
				AV	2389.960	-54.02	≤-41.20	41.18	≤54	PASS
				AV	2390.000	-54.02	≤-41.20	41.18	≤54	PASS
				Peak	2310.000	-47.87	≤-21.20	47.33	≤74	PASS
				Peak	2389.570	-43.4	≤-21.20	51.80	≤74	PASS
				Peak	2390.000	-44.21	≤-21.20	50.99	≤74	PASS
		High	2462	AV	2483.500	-51.34	≤-41.20	43.86	≤54	PASS
				AV	2483.560	-51.53	≤-41.20	43.67	≤54	PASS
				AV	2500.000	-56.07	≤-41.20	39.13	≤54	PASS
				Peak	2483.500	-43.17	≤-21.20	52.03	≤74	PASS
				Peak	2483.890	-42.4	≤-21.20	52.80	≤74	PASS
				Peak	2500.000	-46.42	≤-21.20	48.78	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-57.78	≤-41.20	37.42	≤54	PASS
				AV	2389.960	-52.54	≤-41.20	42.66	≤54	PASS
				AV	2390.000	-52.54	≤-41.20	42.66	≤54	PASS
				Peak	2310.000	-47.57	≤-21.20	47.63	≤74	PASS
				Peak	2389.830	-37.07	≤-21.20	58.13	≤74	PASS
				Peak	2390.000	-38.05	≤-21.20	57.15	≤74	PASS
		High	2462	AV	2483.500	-49.92	≤-41.20	45.28	≤54	PASS
				AV	2483.560	-50.01	≤-41.20	45.19	≤54	PASS
				AV	2500.000	-55.33	≤-41.20	39.87	≤54	PASS
				Peak	2483.500	-32.72	≤-21.20	62.48	≤74	PASS
				Peak	2483.560	-29.32	≤-21.20	65.88	≤74	PASS
				Peak	2500.000	-45.39	≤-21.20	49.81	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-58.1	≤-41.20	37.10	≤54	PASS
				AV	2389.960	-52.95	≤-41.20	42.25	≤54	PASS
				AV	2390.000	-52.95	≤-41.20	42.25	≤54	PASS
				Peak	2310.000	-47.22	≤-21.20	47.98	≤74	PASS
				Peak	2389.830	-36.41	≤-21.20	58.79	≤74	PASS
				Peak	2390.000	-36.72	≤-21.20	58.48	≤74	PASS
		High	2462	AV	2483.500	-48.81	≤-41.20	46.39	≤54	PASS
				AV	2483.890	-50.38	≤-41.20	44.82	≤54	PASS
				AV	2500.000	-55.68	≤-41.20	39.52	≤54	PASS
				Peak	2483.500	-33.42	≤-21.20	61.78	≤74	PASS
				Peak	2483.670	-33.49	≤-21.20	61.71	≤74	PASS



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11N40SI SO	Ant1	Low	2422	Peak	2500.000	-45.59	≤ -21.20	49.61	≤ 74	PASS
				AV	2310.000	-57.67	≤ -41.20	37.53	≤ 54	PASS
				AV	2389.960	-50.55	≤ -41.20	44.65	≤ 54	PASS
				AV	2390.000	-50.55	≤ -41.20	44.65	≤ 54	PASS
				Peak	2310.000	-48.37	≤ -21.20	46.83	≤ 74	PASS
				Peak	2388.660	-33.99	≤ -21.20	61.21	≤ 74	PASS
		High	2452	Peak	2390.000	-35.23	≤ -21.20	59.97	≤ 74	PASS
				AV	2483.500	-52.59	≤ -41.20	42.61	≤ 54	PASS
				AV	2483.560	-52.62	≤ -41.20	42.58	≤ 54	PASS
				AV	2500.000	-55.86	≤ -41.20	39.34	≤ 54	PASS
				Peak	2483.500	-32.56	≤ -21.20	62.64	≤ 74	PASS
				Peak	2484.660	-31.61	≤ -21.20	63.59	≤ 74	PASS
				Peak	2500.000	-41.13	≤ -21.20	54.07	≤ 74	PASS

Note:

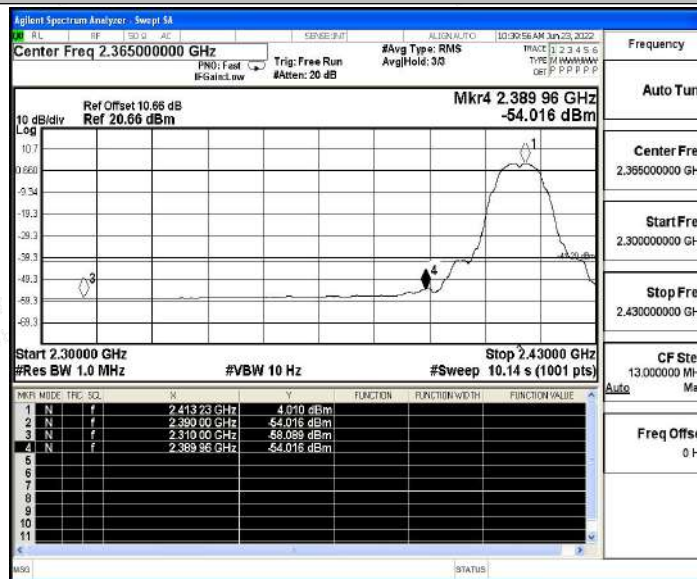
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



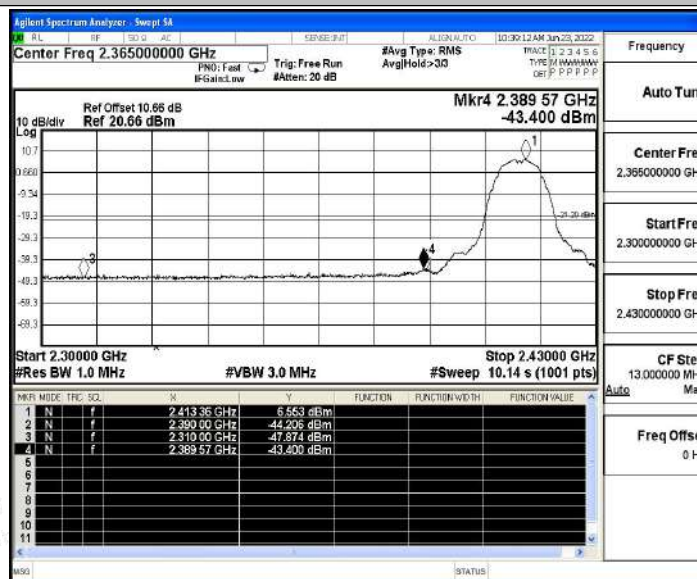


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

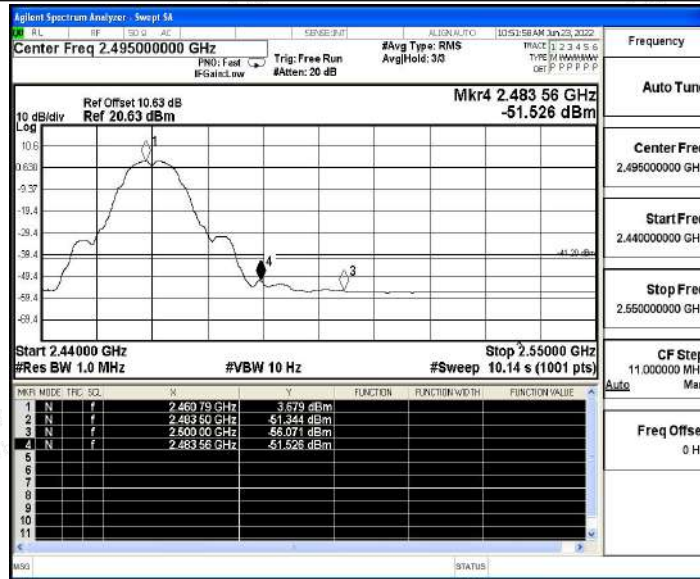


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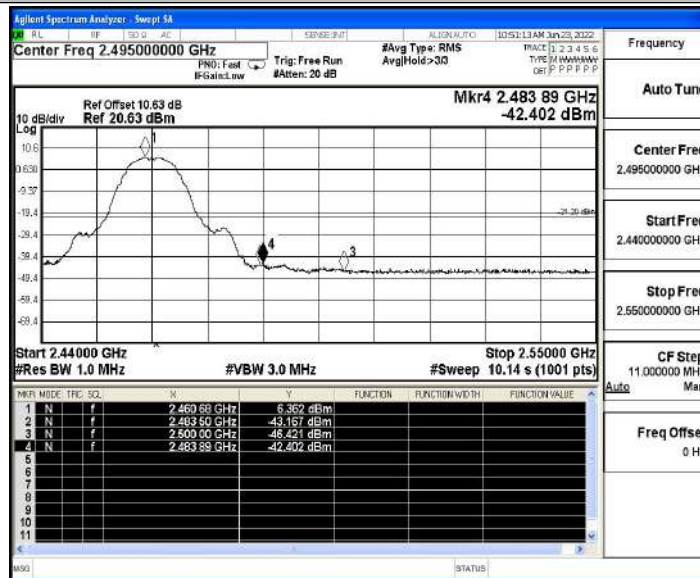
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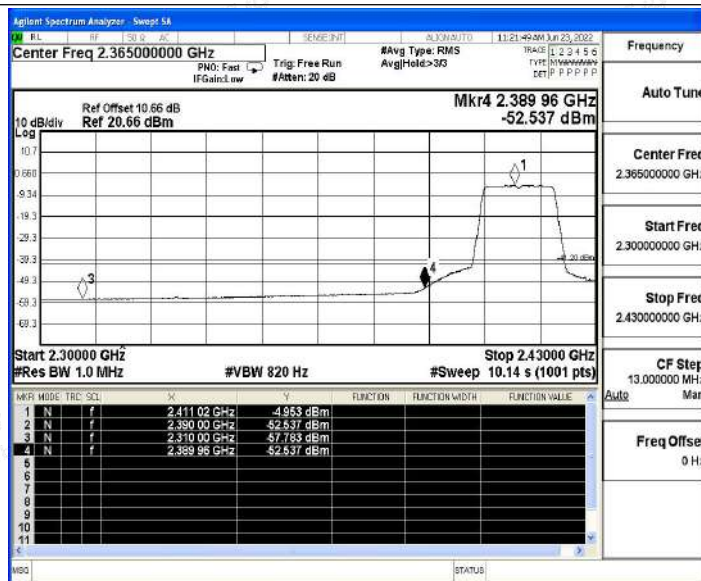


11B_Ant1_High_2462_Peak

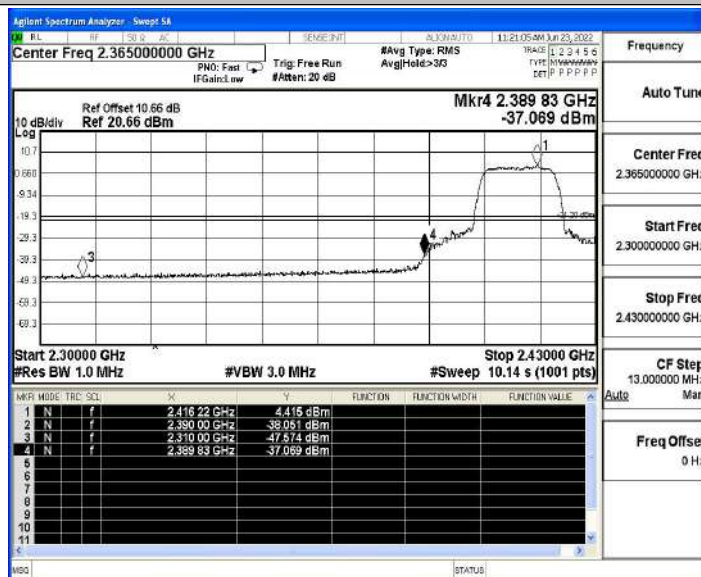


11G_Ant1_Low_2412_AV



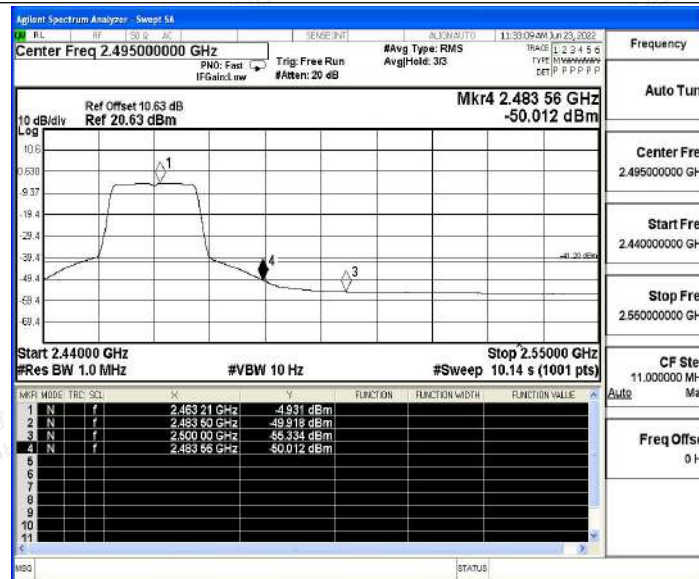


11G_Ant1_Low_2412_Peak

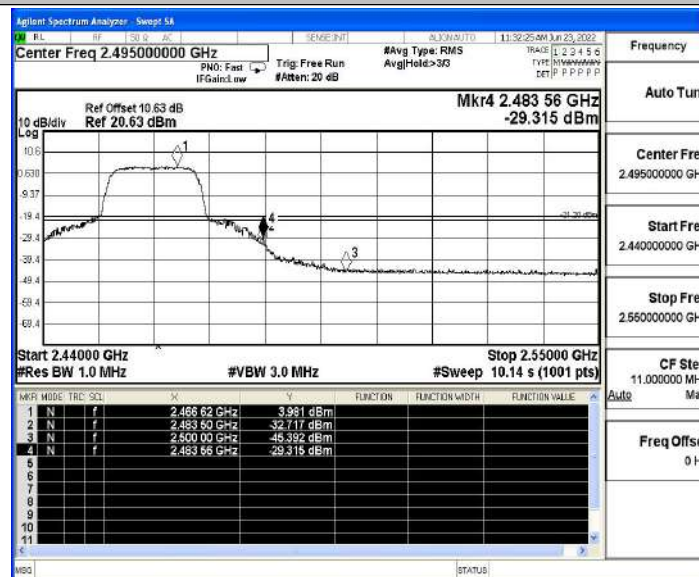


11G_Ant1_High_2462_AV



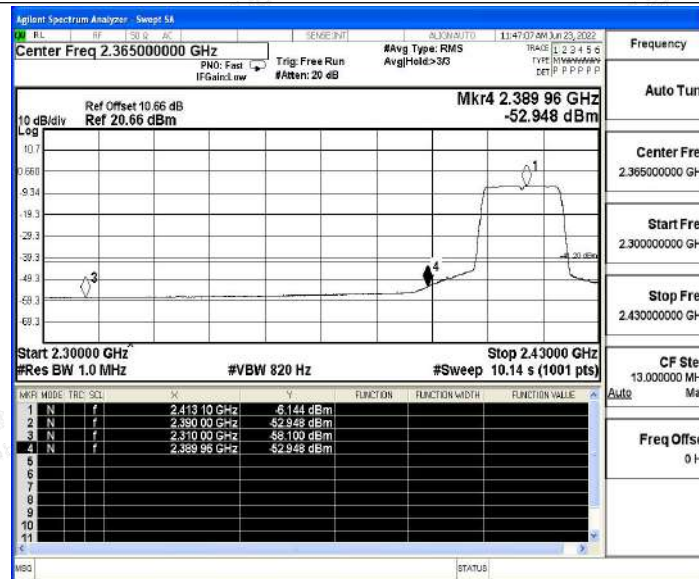


11G_Ant1_High_2462_Peak

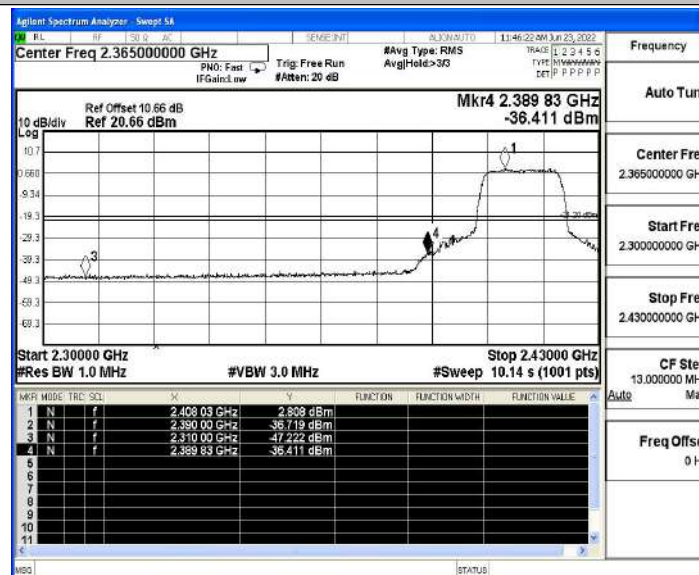


11N20SISO_Ant1_Low_2412_AV



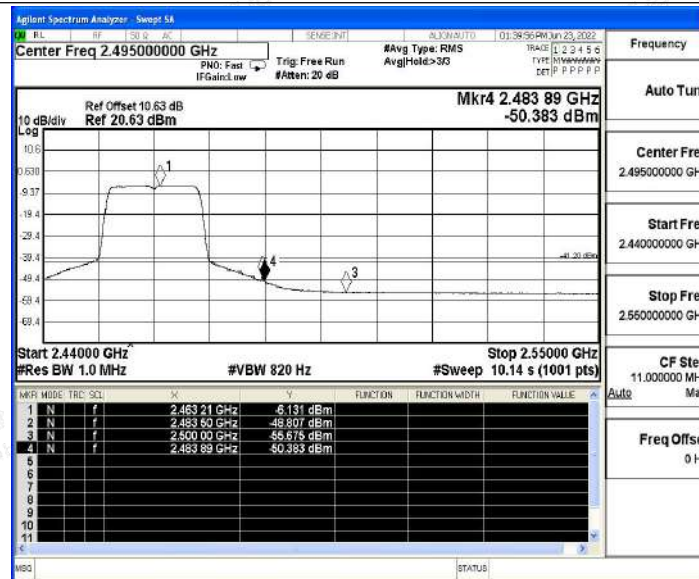


11N20SISO_Ant1_Low_2412_Peak

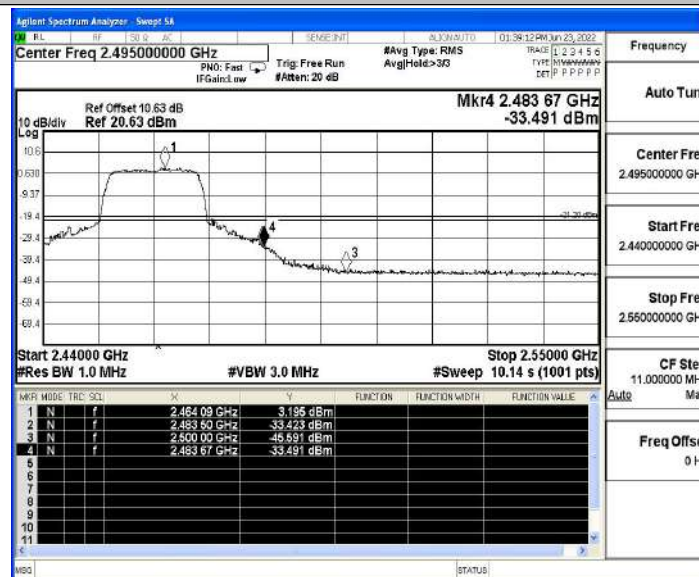


11N20SISO_Ant1_High_2462_AV



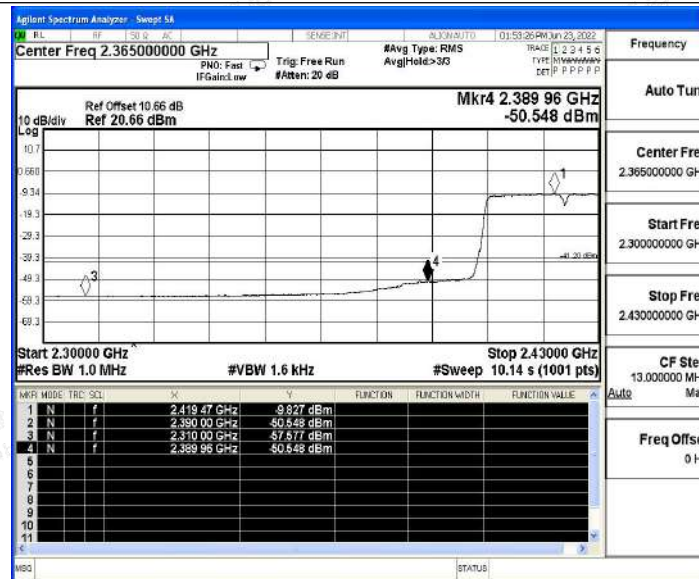


11N20SISO_Ant1_High_2462_Peak

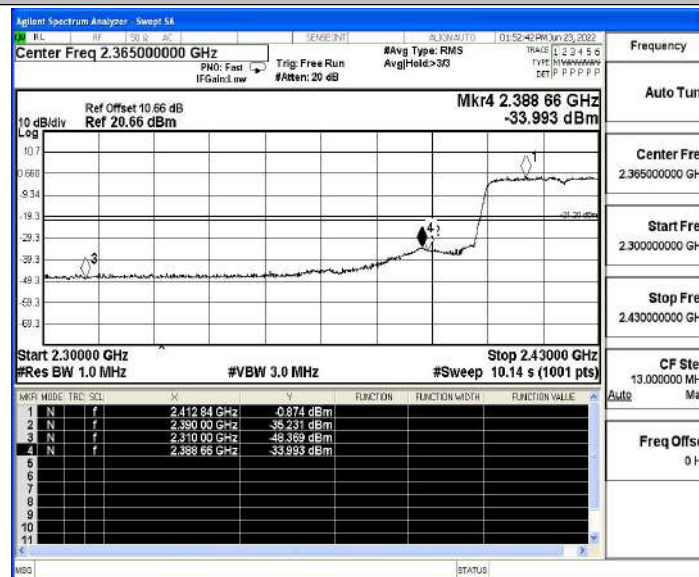


11N40SISO_Ant1_Low_2422_AV



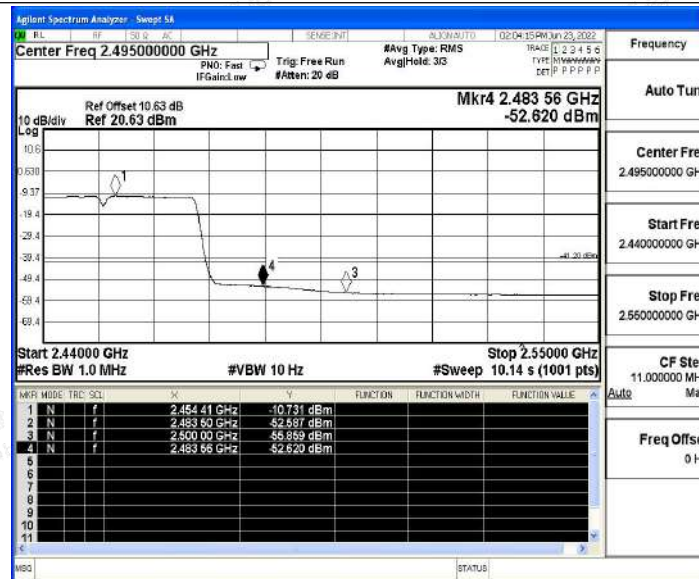


11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV





11N40SISO_Ant1_High_2452_Peak

