

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: W6C Tablet

Test Model: W6C

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

C.1 DTS Bandwidth

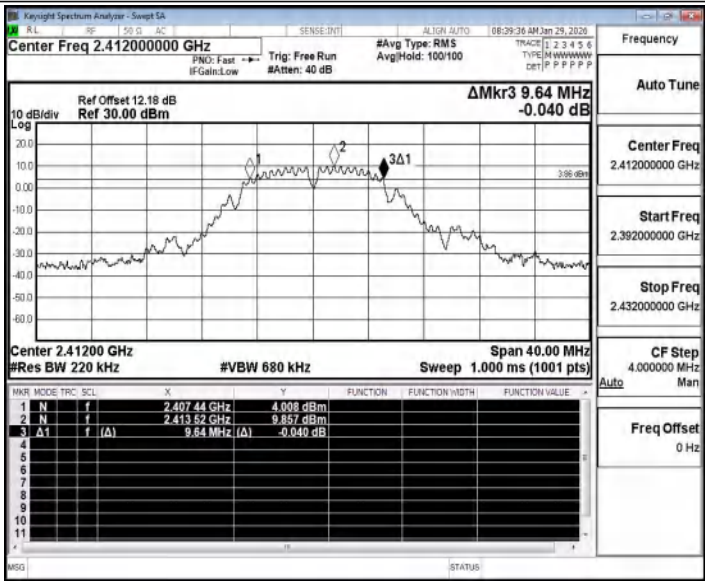
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.640	2407.440	2417.080	0.5	PASS
		2437	9.640	2431.960	2441.600	0.5	PASS
		2462	9.640	2457.400	2467.040	0.5	PASS
11G	Ant1	2412	16.120	2404.080	2420.200	0.5	PASS
		2437	16.280	2428.800	2445.080	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.960	2403.720	2420.680	0.5	PASS
		2437	17.320	2428.200	2445.520	0.5	PASS
		2462	17.320	2453.400	2470.720	0.5	PASS

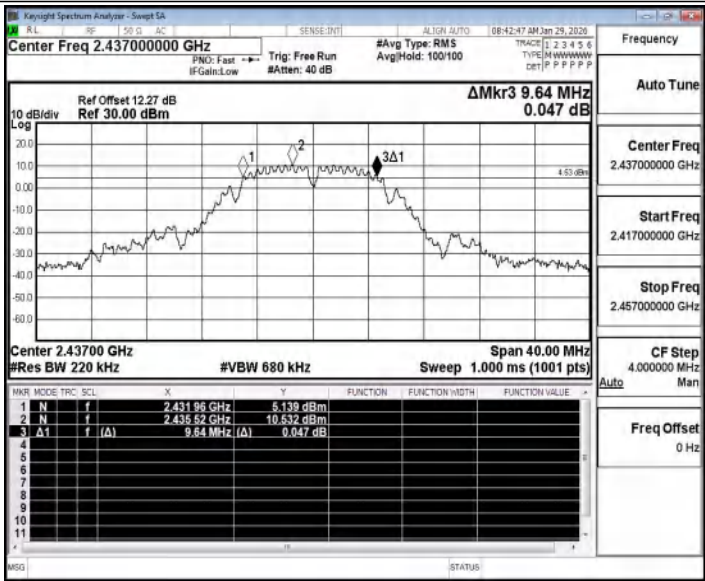
Note :offset=System attenuation +cabal loss

Test Graphs

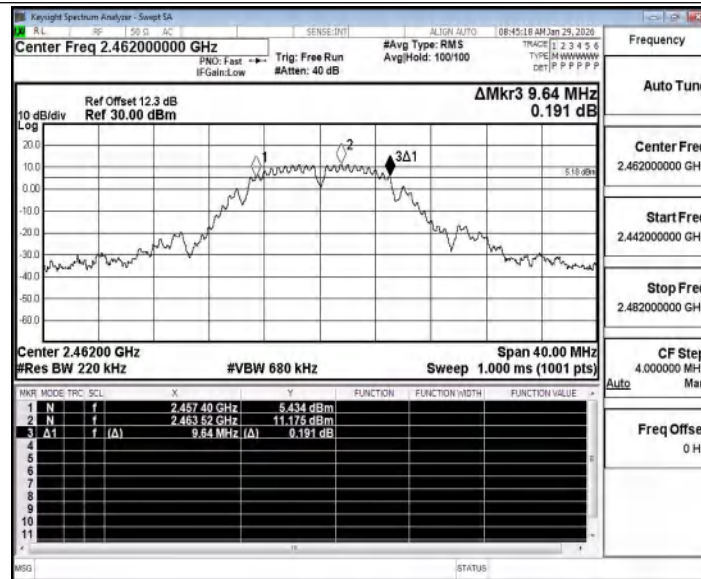
11B_Ant1_2412



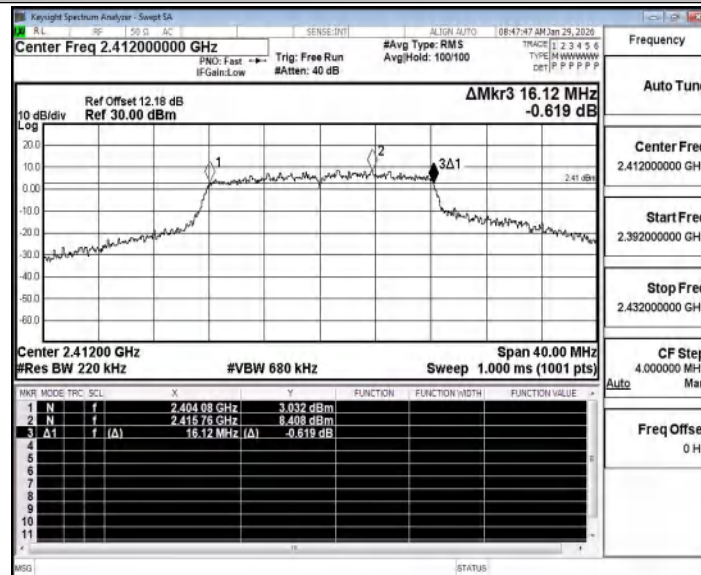
11B_Ant1_2437



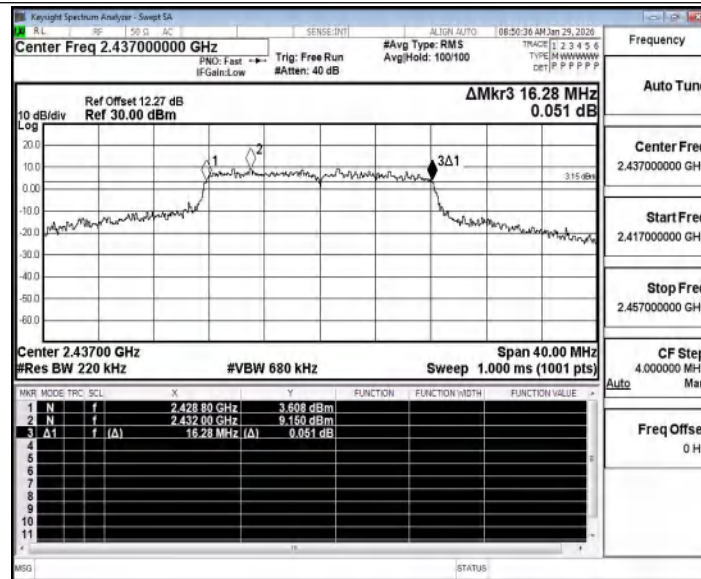
11B_Ant1_2462



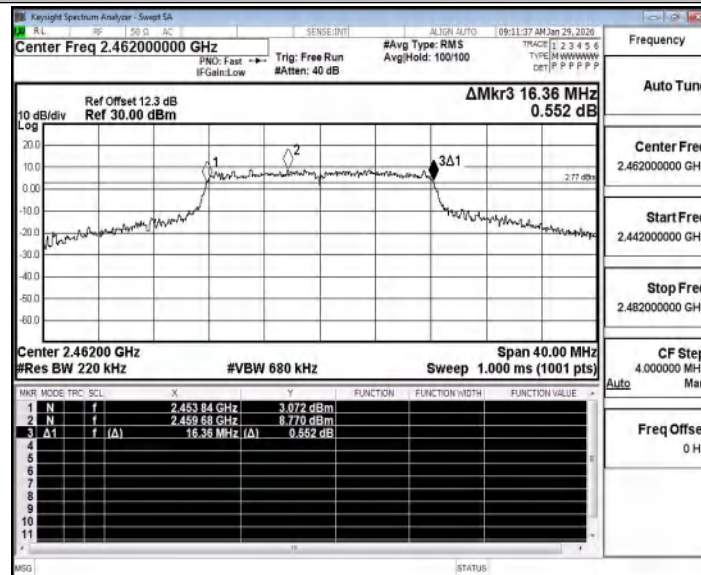
11G_Ant1_2412



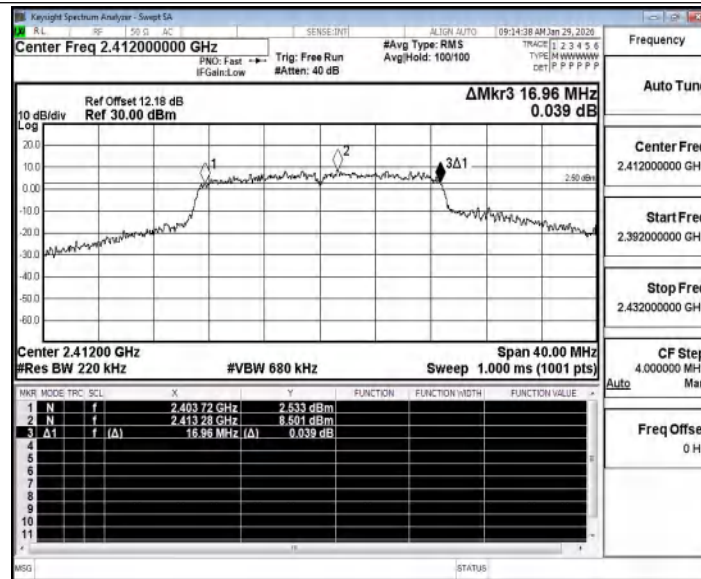
11G_Ant1_2437



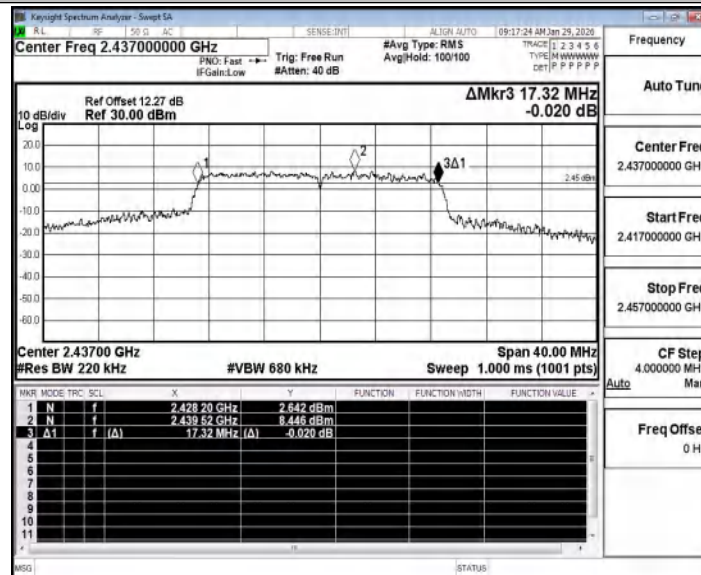
11G_Ant1_2462



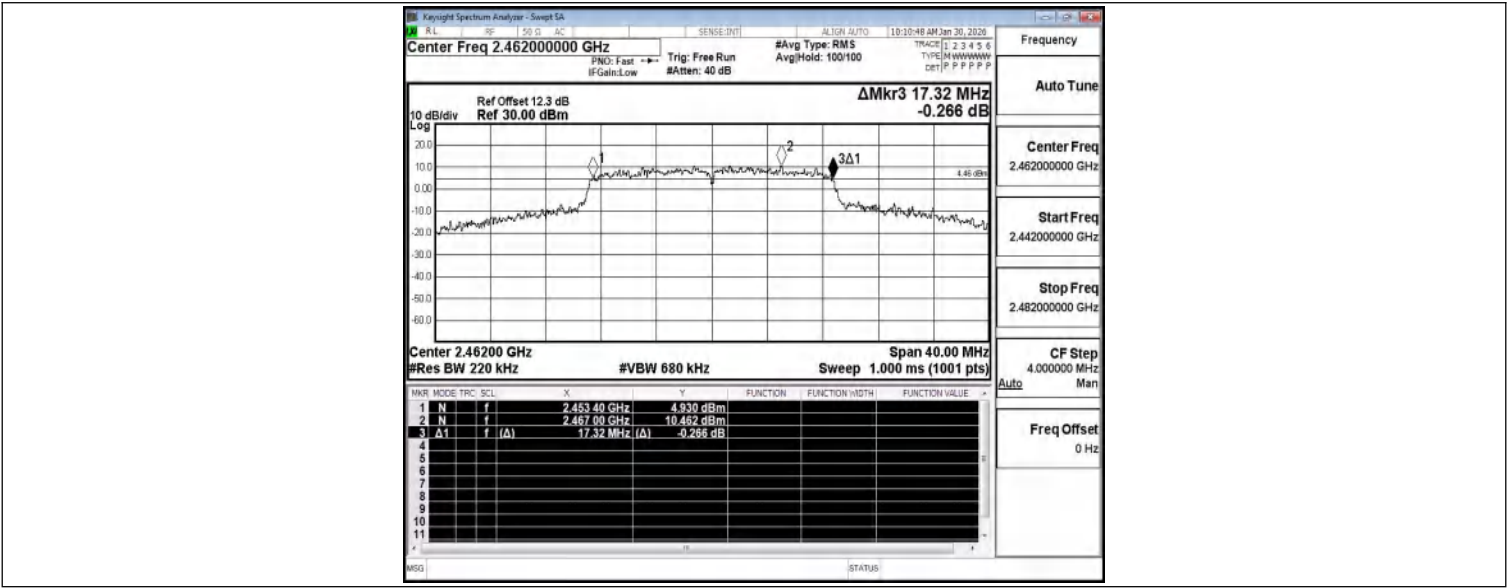
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



C.2 Maximum Average Conducted Output Power

Test Result Average

TestMode	Antenna	Frequency [MHz]	Conducted Power (dBm)	DC Factor [dB]	Total Maximum Average	Limit Conducted(dBm)	Verdict
11B	Ant1	2412	17.73	0.10	17.83	30	Pass
		2437	18.56	0.09	18.65	30	Pass
		2462	17.86	0.12	17.98	30	Pass
11G	Ant1	2412	16.87	0.69	17.56	30	Pass
		2437	18.17	0.53	18.70	30	Pass
		2462	17.96	0.53	18.49	30	Pass
11N20SISO	Ant1	2412	17.38	0.50	17.88	30	Pass
		2437	17.91	0.74	18.65	30	Pass
		2462	19.13	0.53	19.66	30	Pass

Note :offset=System attenuation +cabal loss

C.3 Maximum power spectral density

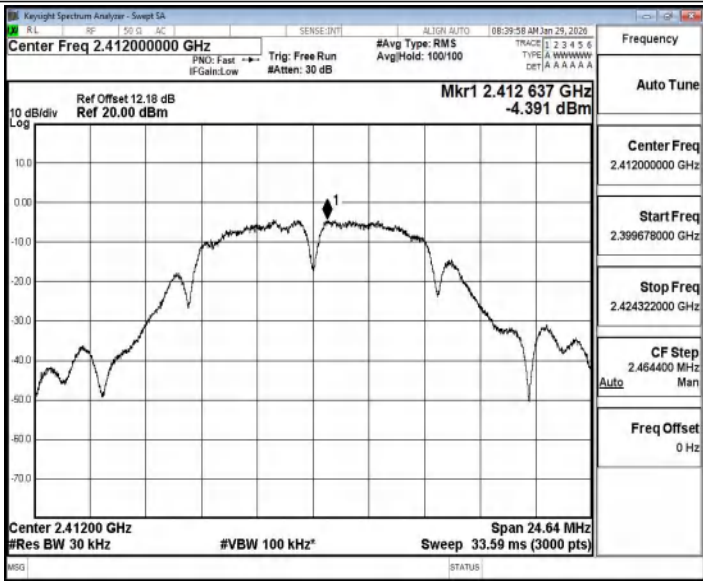
Test Result

TestMode	Antenna	Frequency[MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result[dBm/30kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.39	0.10	-4.29	≤8.00	PASS
		2437	-3.2	0.09	-3.11	≤8.00	PASS
		2462	-2.84	0.12	-2.72	≤8.00	PASS
11G	Ant1	2412	-6.87	0.69	-6.18	≤8.00	PASS
		2437	-6.33	0.53	-5.80	≤8.00	PASS
		2462	-5.61	0.53	-5.08	≤8.00	PASS
11N20SISO	Ant1	2412	-6.69	0.50	-6.19	≤8.00	PASS
		2437	-6.67	0.74	-5.93	≤8.00	PASS
		2462	-5.04	0.53	-4.51	≤8.00	PASS

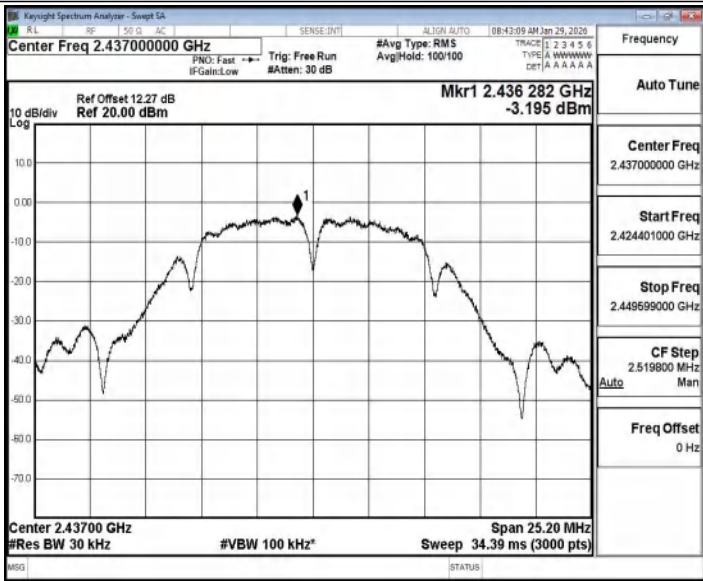
Note :offset=System attenuation +cabal loss

Test Graphs

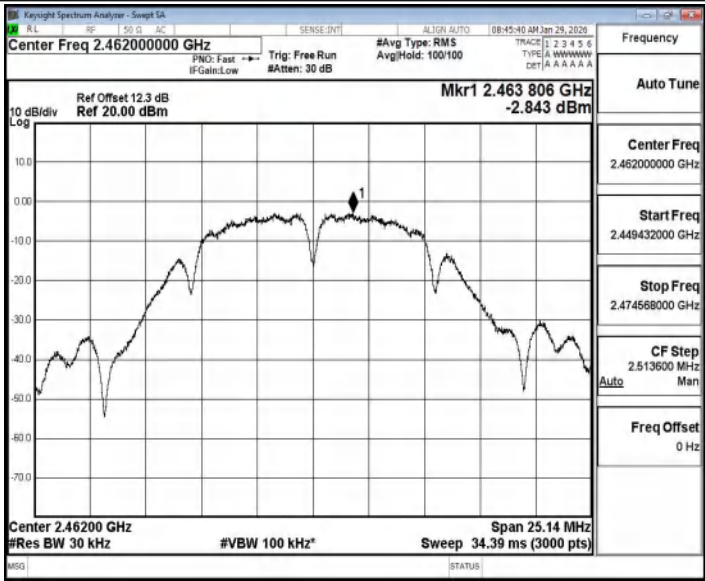
11B_Ant1_2412



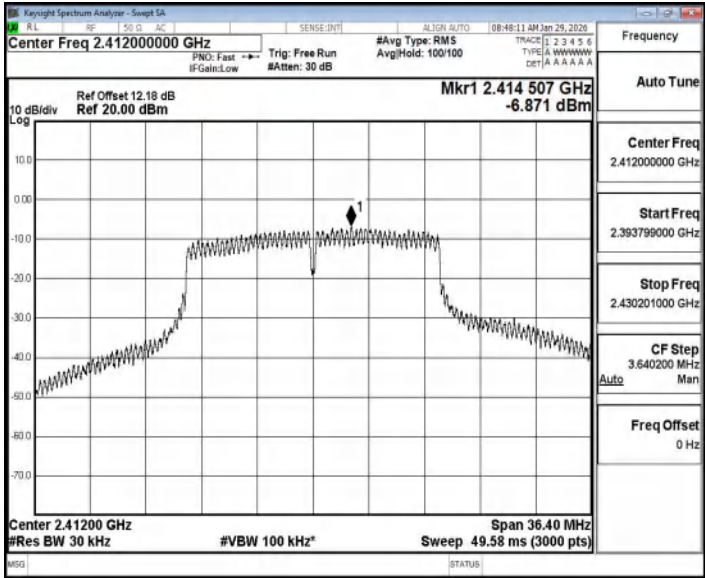
11B_Ant1_2437



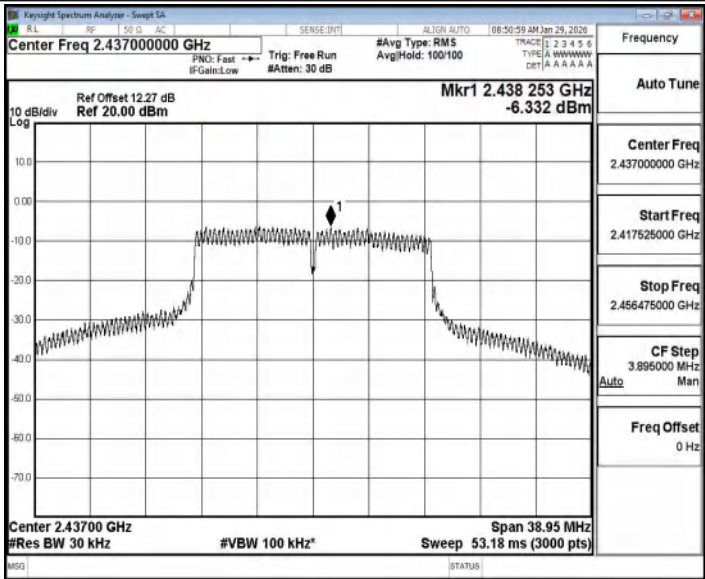
11B_Ant1_2462



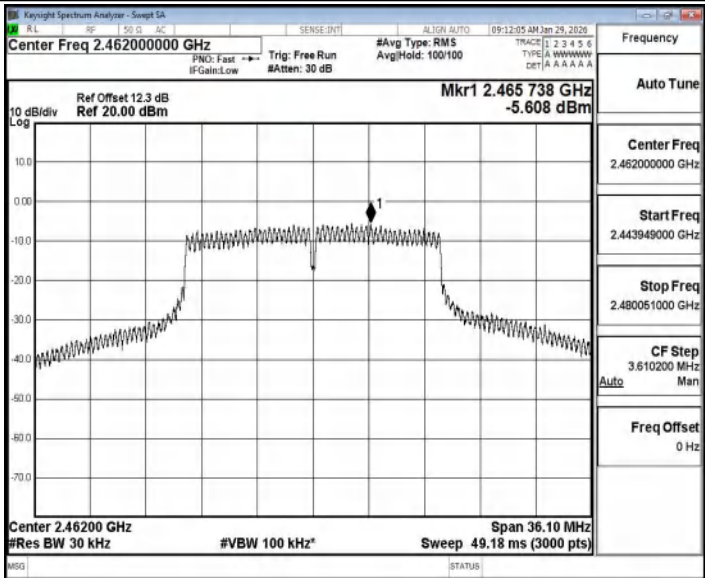
11G_Ant1_2412



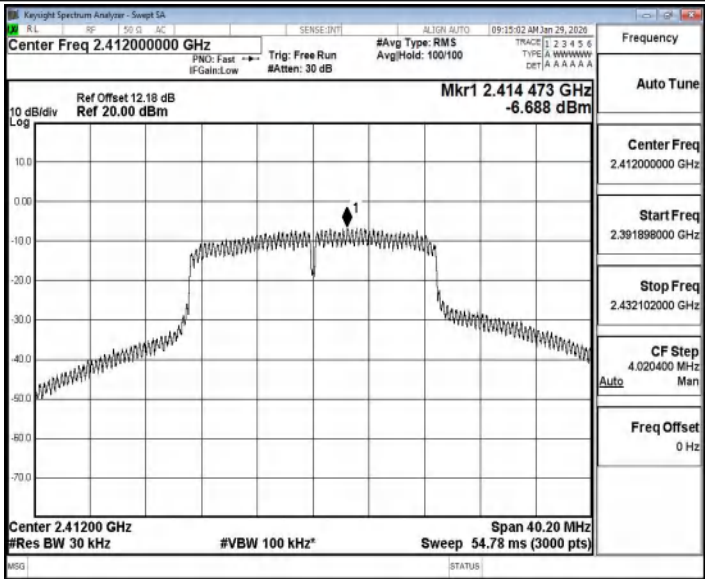
11G_Ant1_2437



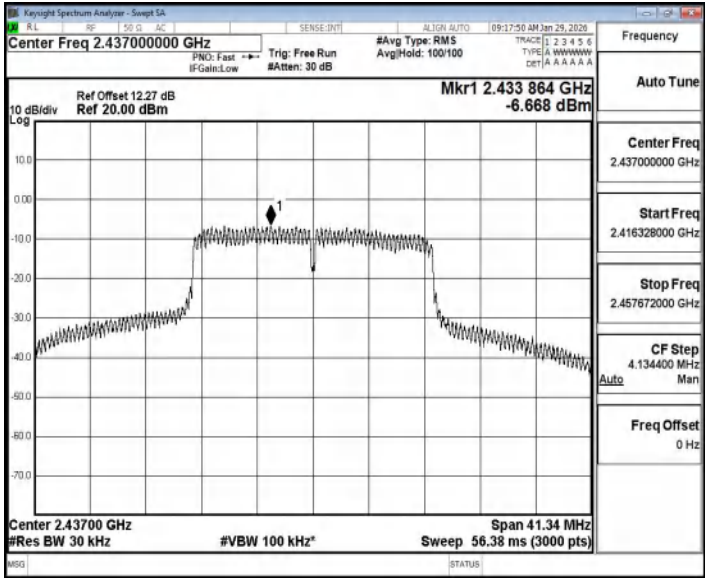
11G_Ant1_2462



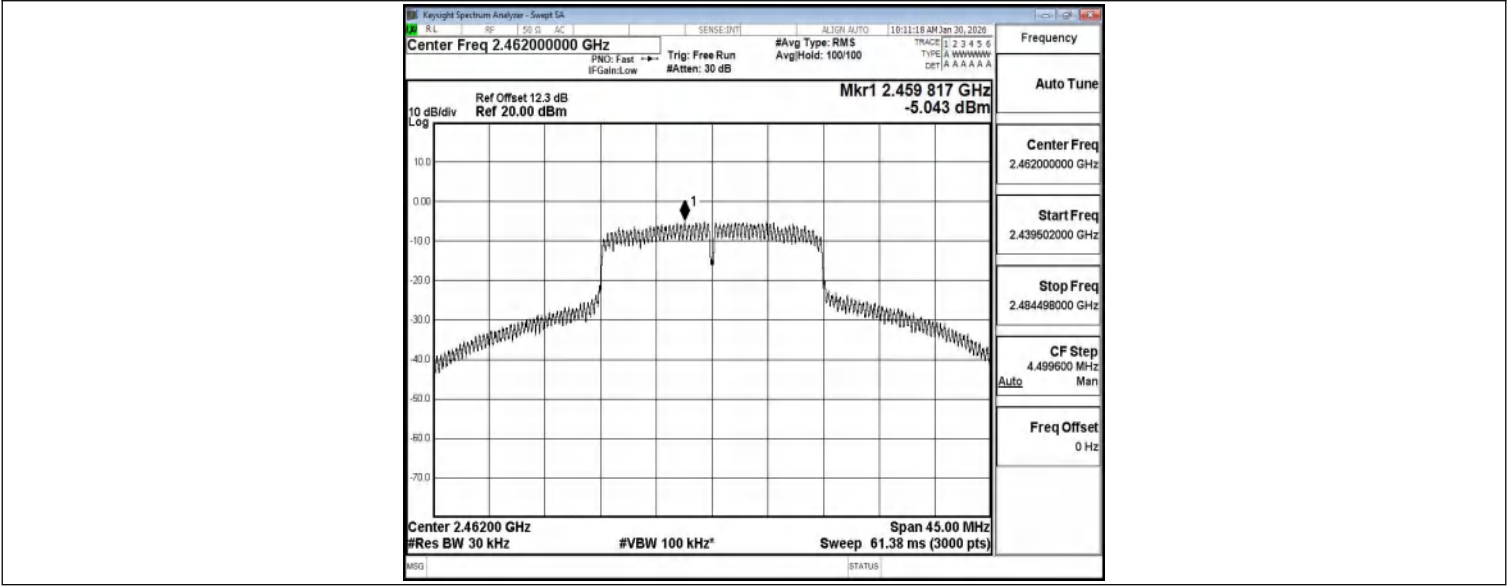
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



C.4 Band edge measurements

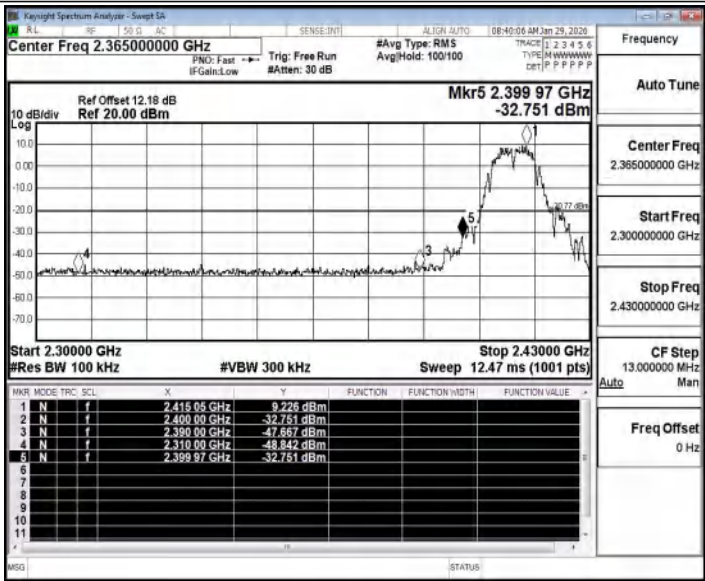
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.23	-32.75	≤-20.77	PASS
		High	2462	10.72	-39.62	≤-19.28	PASS
11G	Ant1	Low	2412	7.50	-24.48	≤-22.5	PASS
		High	2462	8.25	-27.84	≤-21.75	PASS
11N20SISO	Ant1	Low	2412	6.50	-26.21	≤-23.5	PASS
		High	2462	9.48	-20.88	≤-20.52	PASS

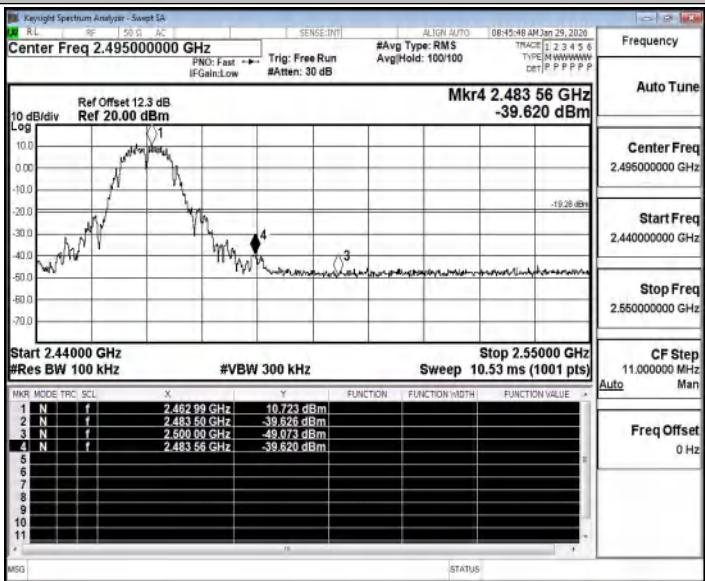
Note :offset=System attenuation +cabal loss

Test Graphs

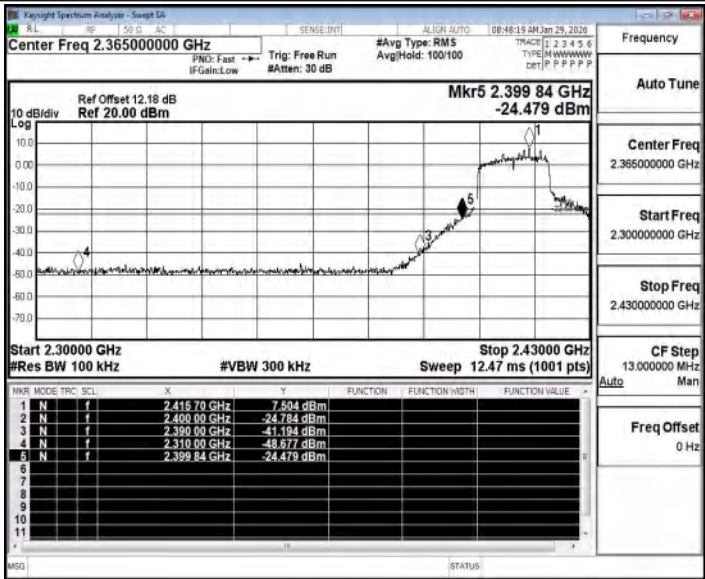
11B_Ant1_Low_2412



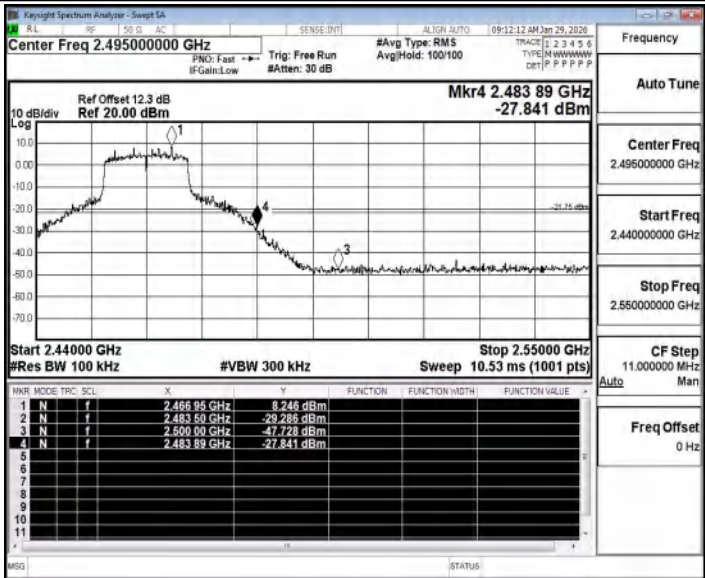
11B_Ant1_High_2462



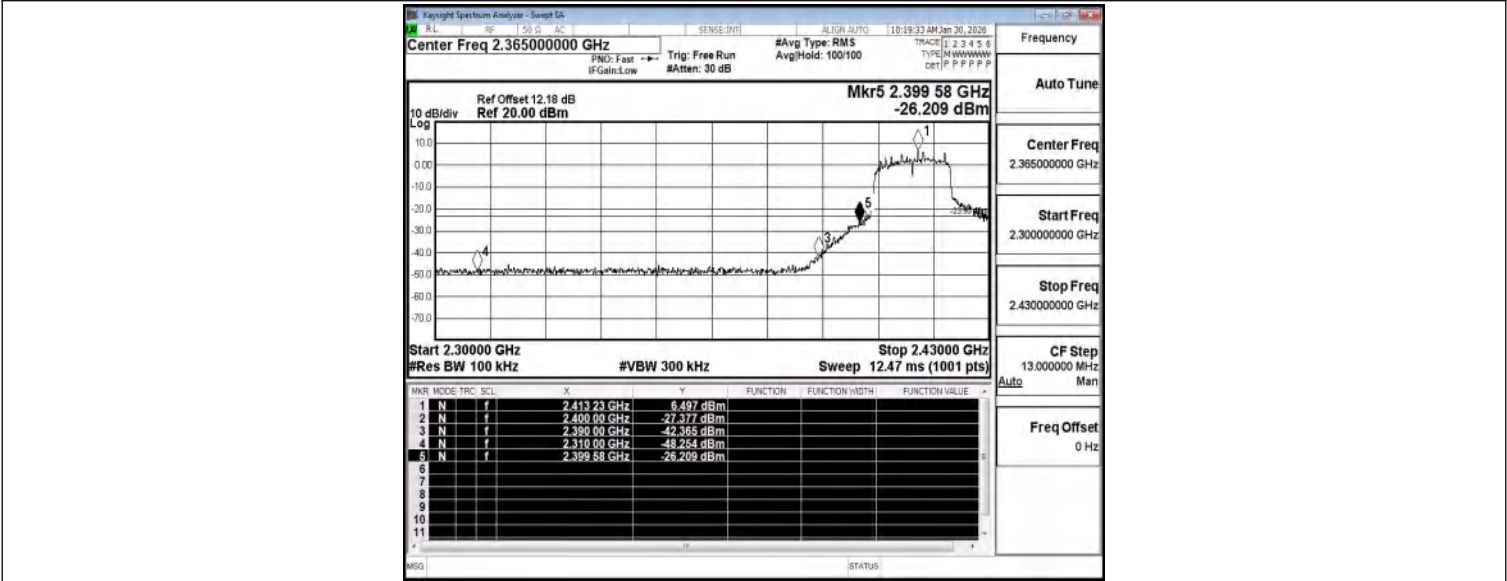
11G_Ant1_Low_2412



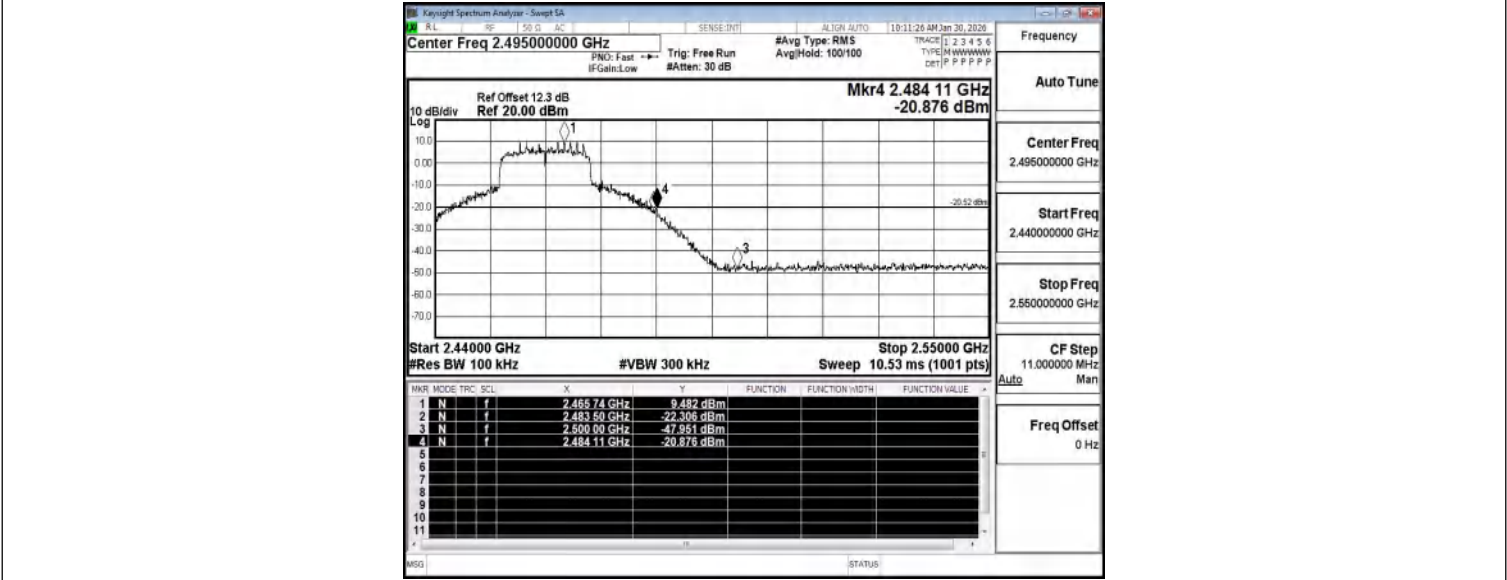
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	9.43	9.43	---	PASS
			30~1000	9.43	-66.28	≤ -20.57	PASS
			1000~26500	9.43	-42.4	≤ -20.57	PASS
		2437	Reference	9.59	9.59	---	PASS
			30~1000	9.59	-66.01	≤ -20.41	PASS
			1000~26500	9.59	-37.96	≤ -20.41	PASS
		2462	Reference	9.65	9.65	---	PASS
			30~1000	9.65	-65.63	≤ -20.35	PASS
			1000~26500	9.65	-36.8	≤ -20.35	PASS
11G	Ant1	2412	Reference	5.15	5.15	---	PASS
			30~1000	5.15	-66.74	≤ -24.85	PASS
			1000~26500	5.15	-49.03	≤ -24.85	PASS
		2437	Reference	7.24	7.24	---	PASS
			30~1000	7.24	-66.73	≤ -22.76	PASS
			1000~26500	7.24	-48.08	≤ -22.76	PASS
		2462	Reference	7.82	7.82	---	PASS
			30~1000	7.82	-65.95	≤ -22.18	PASS
			1000~26500	7.82	-48.57	≤ -22.18	PASS
11N20SISO	Ant1	2412	Reference	7.54	7.54	---	PASS
			30~1000	7.54	-66.97	≤ -22.46	PASS
			1000~26500	7.54	-53.14	≤ -22.46	PASS
		2437	Reference	6.56	6.56	---	PASS
			30~1000	6.56	-66.97	≤ -23.44	PASS
			1000~26500	6.56	-49.1	≤ -23.44	PASS
		2462	Reference	9.07	9.07	---	PASS
			30~1000	9.07	-66.51	≤ -20.93	PASS
			1000~26500	9.07	-42.57	≤ -20.93	PASS

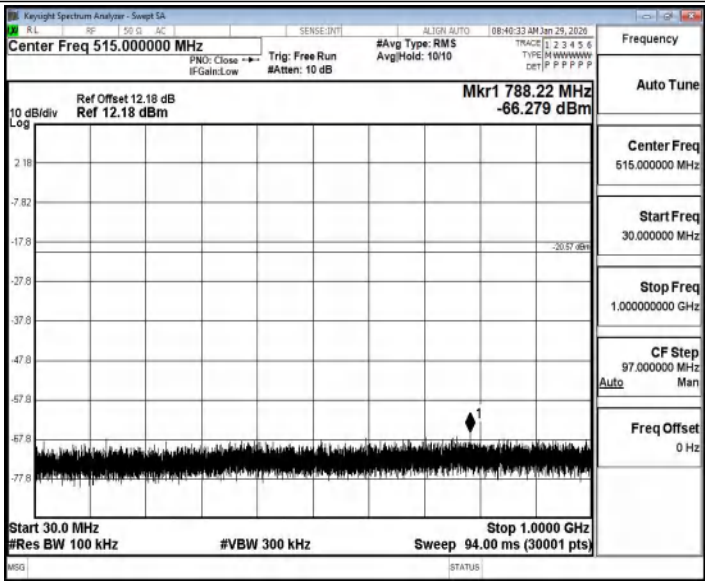
Note : Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.

Test Graphs

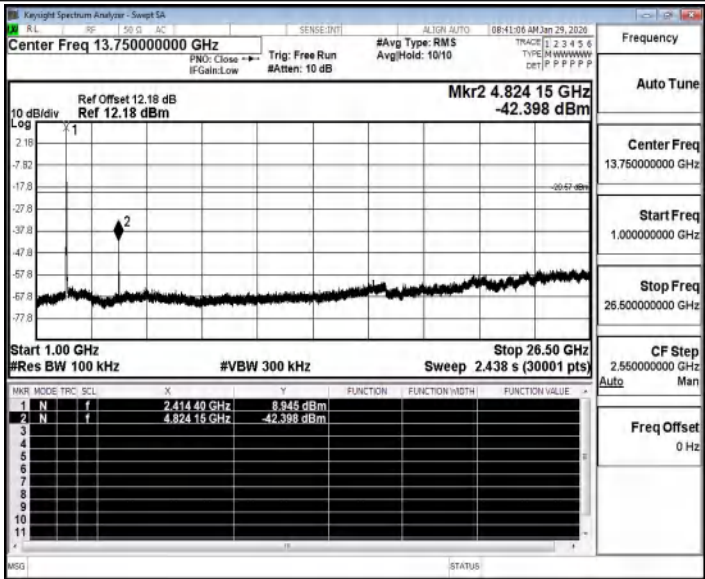
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



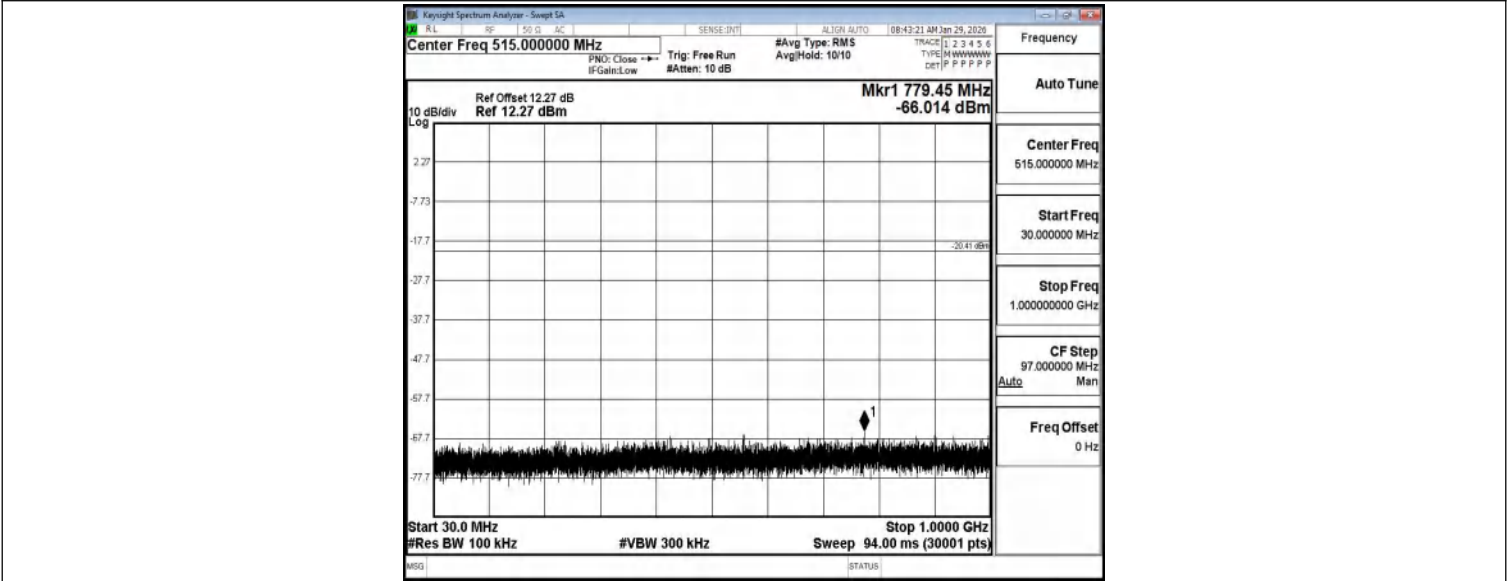
11B_Ant1_2412_1000~26500



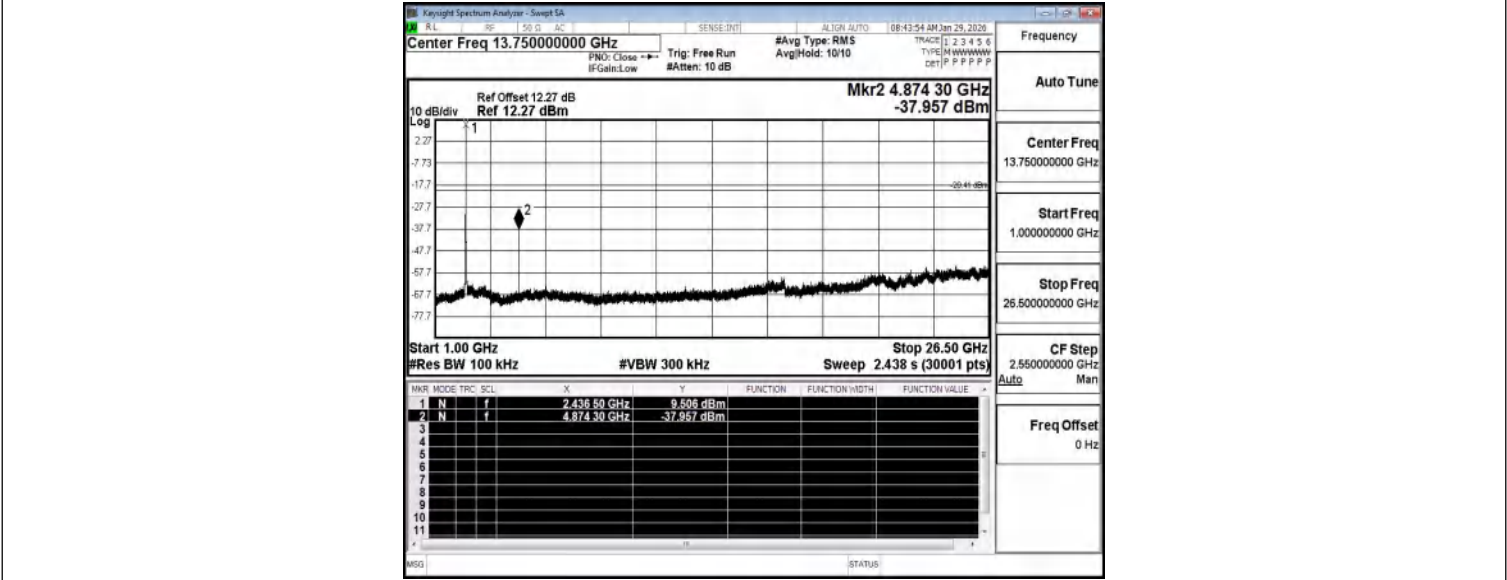
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



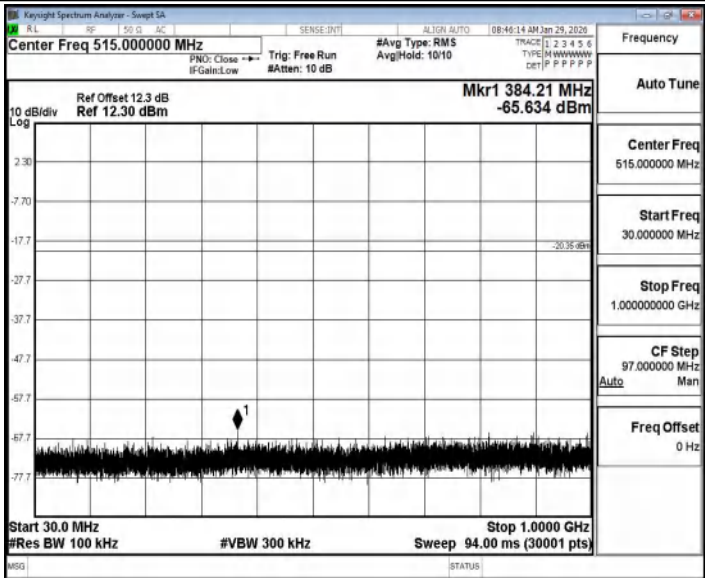
11B_Ant1_2437_1000~26500



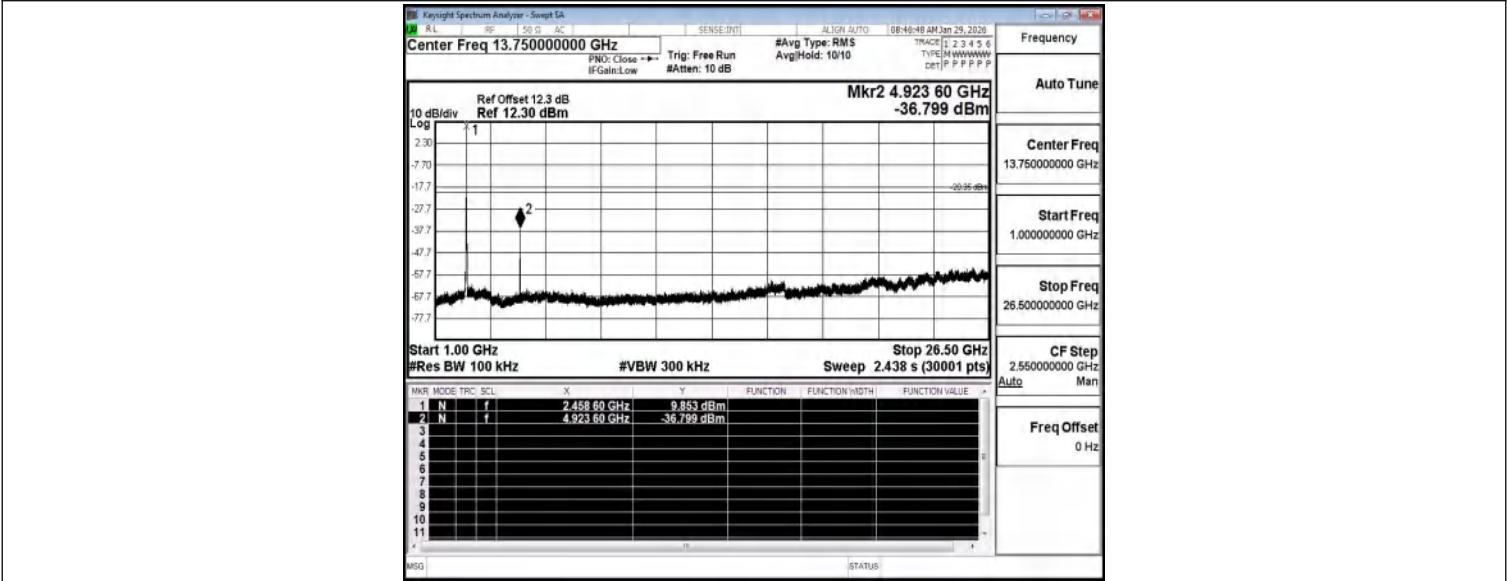
11B_Ant1_2462_0~Reference



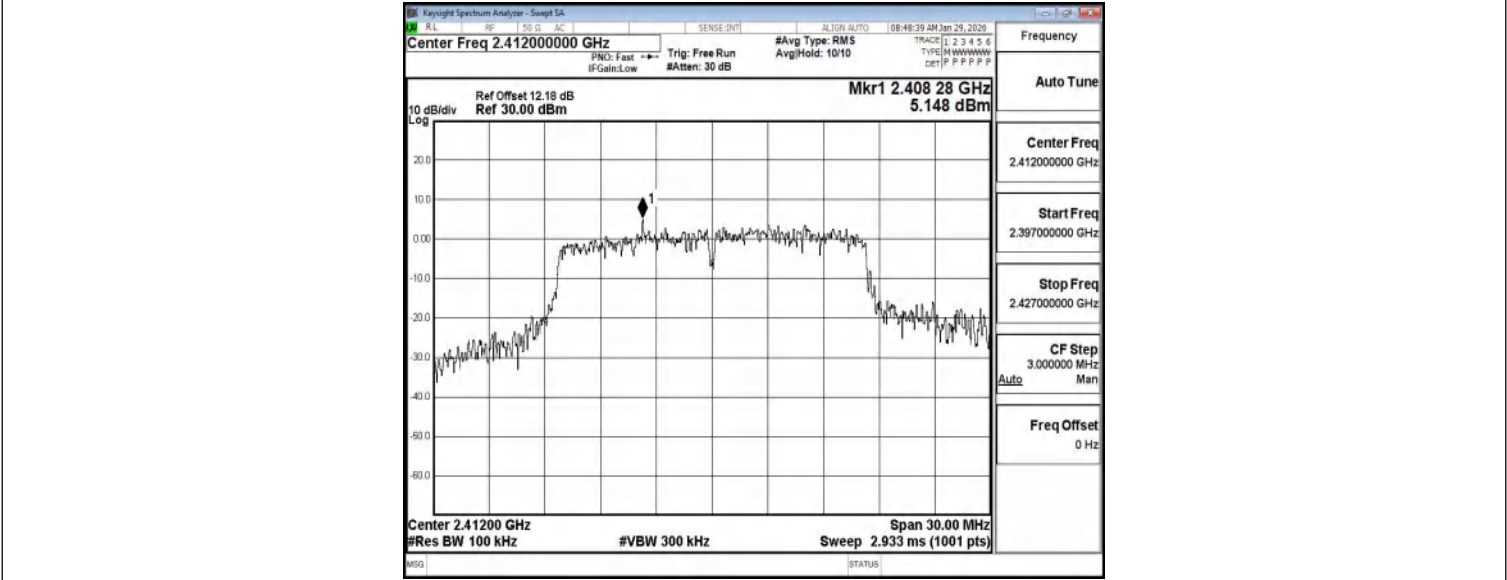
11B_Ant1_2462_30~1000



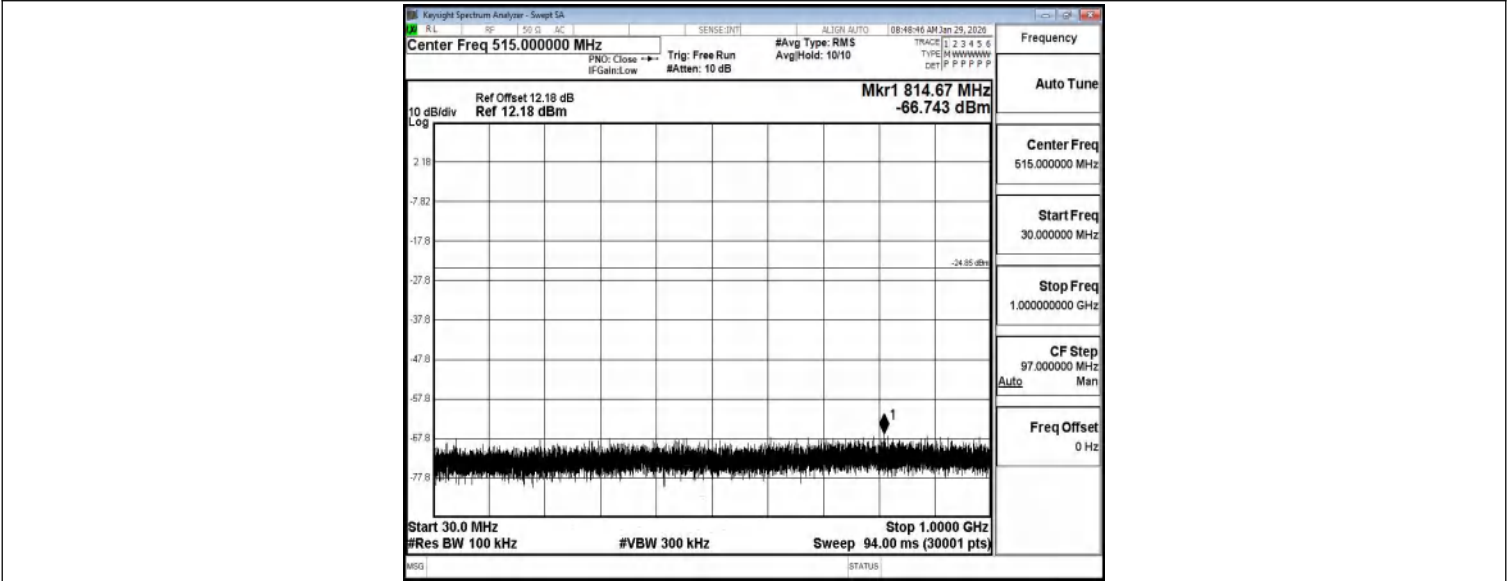
11B_Ant1_2462_1000~26500



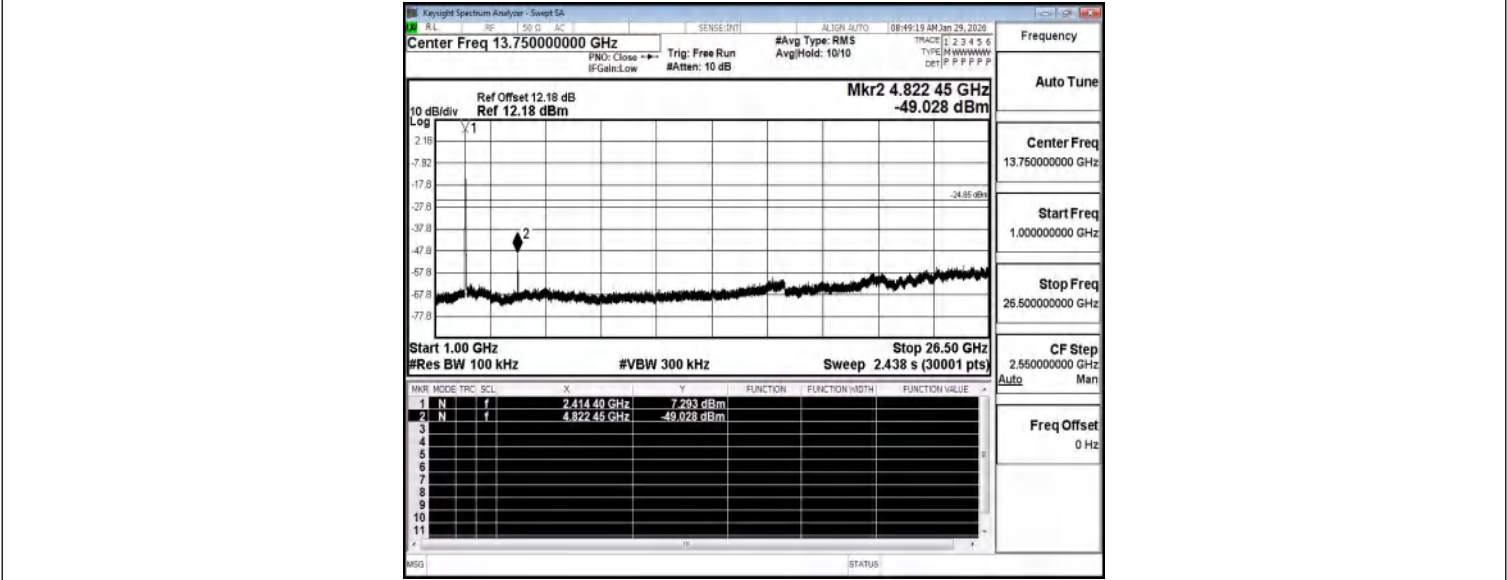
11G_Ant1_2412_0~Reference



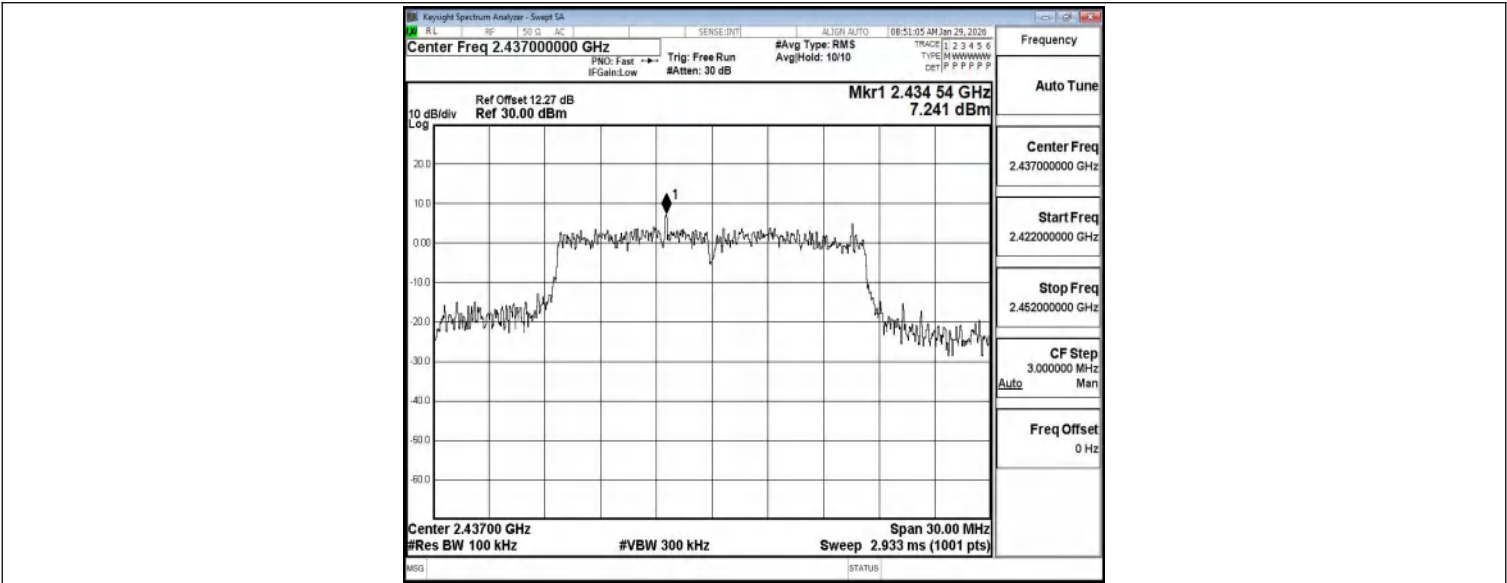
11G_Ant1_2412_30~1000



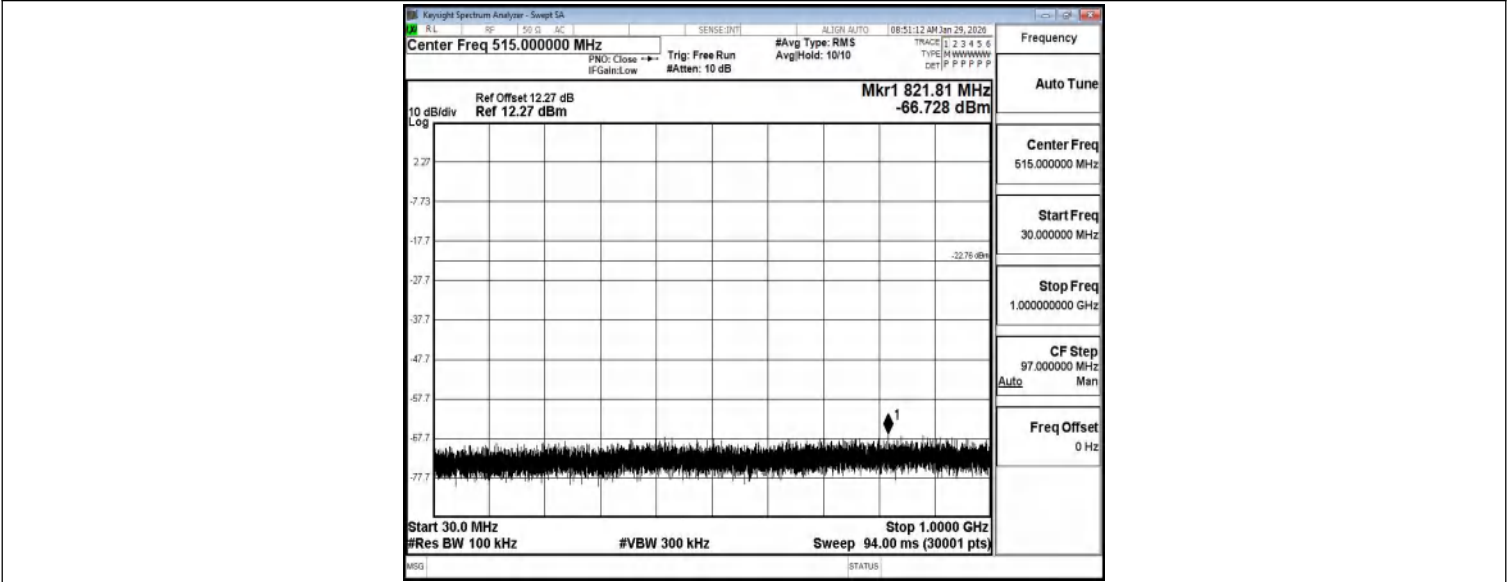
11G_Ant1_2412_1000~26500



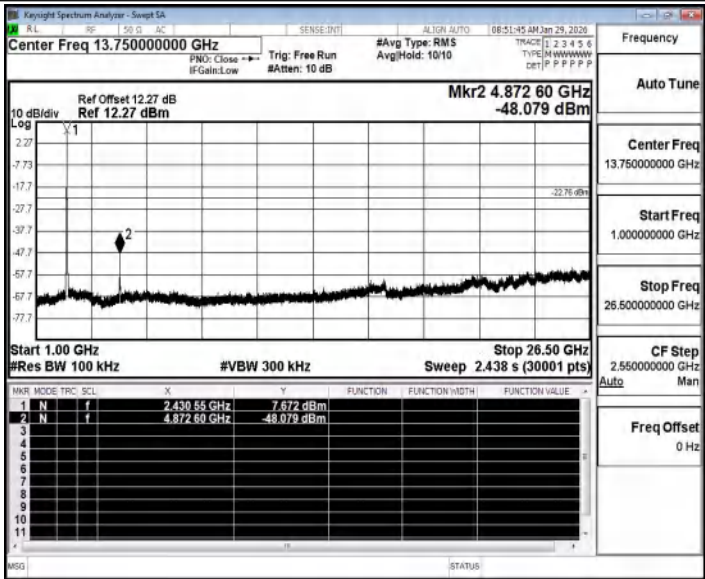
11G_Ant1_2437_0~Reference



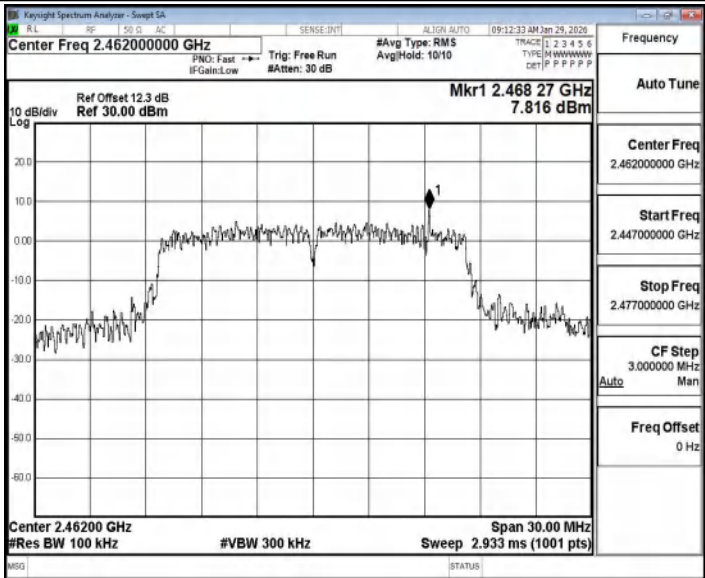
11G_Ant1_2437_30~1000



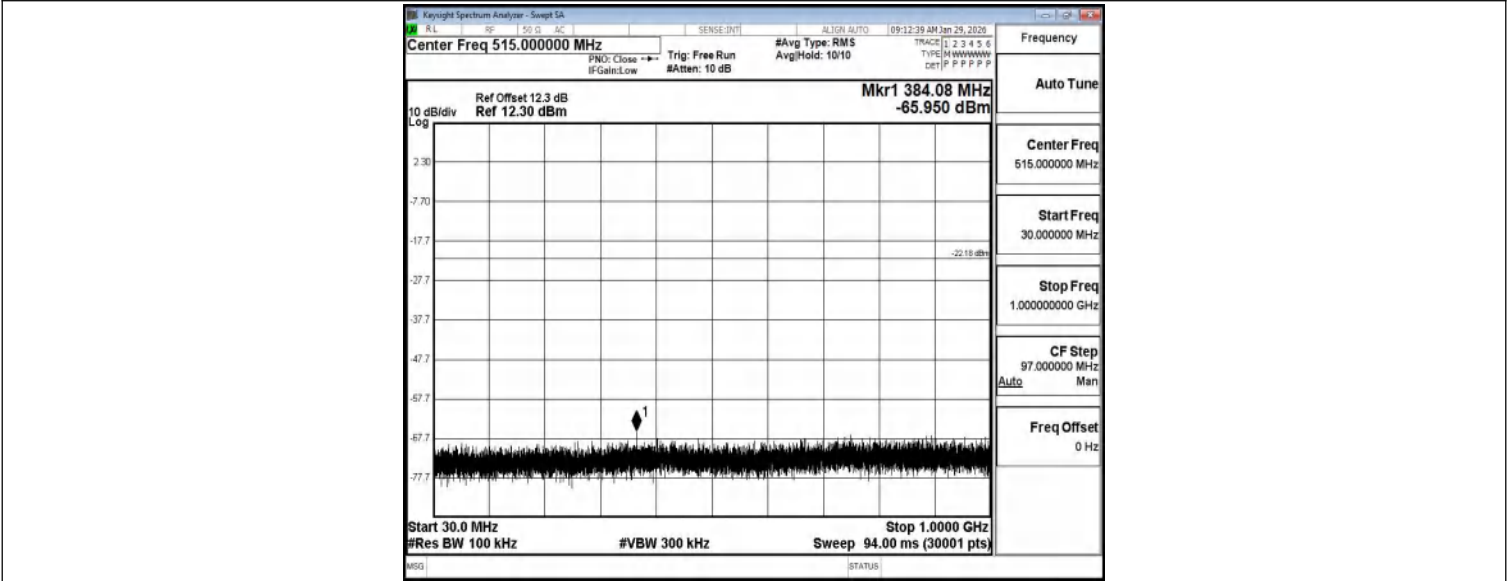
11G_Ant1_2437_1000~26500



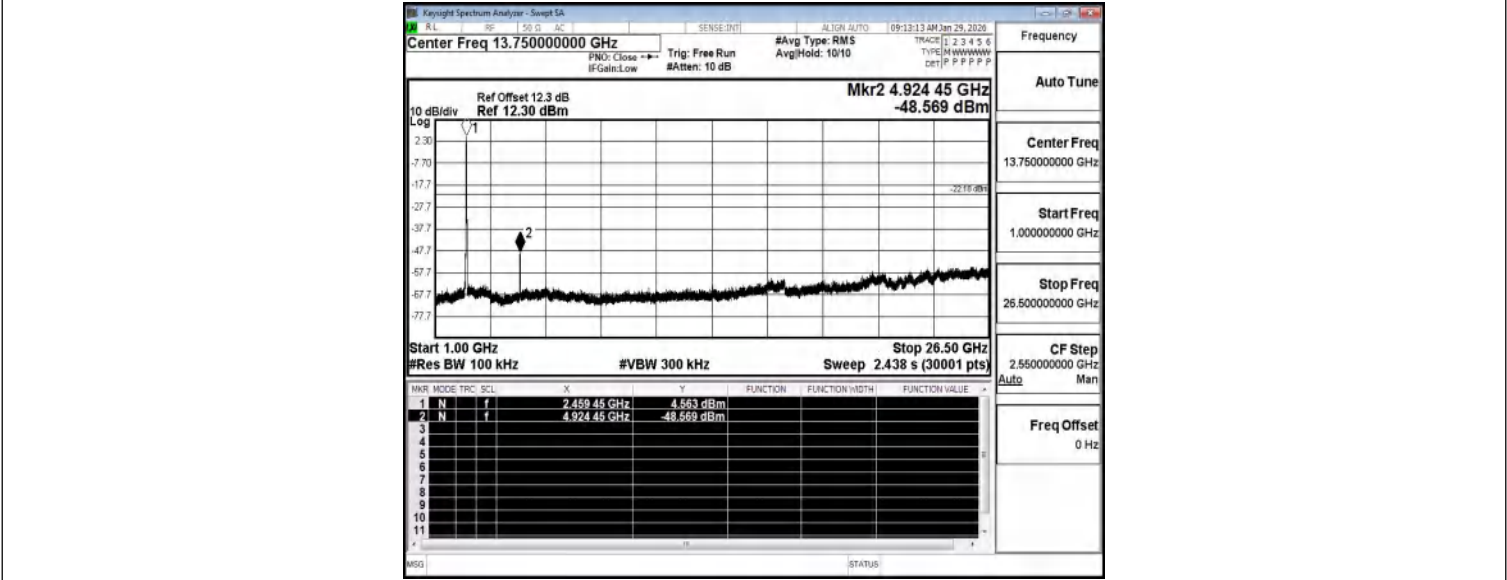
11G_Ant1_2462_0~Reference



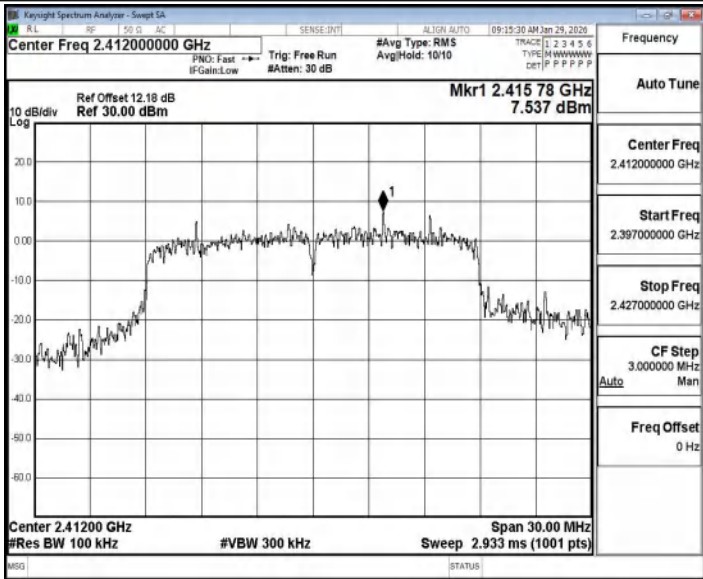
11G_Ant1_2462_30~1000



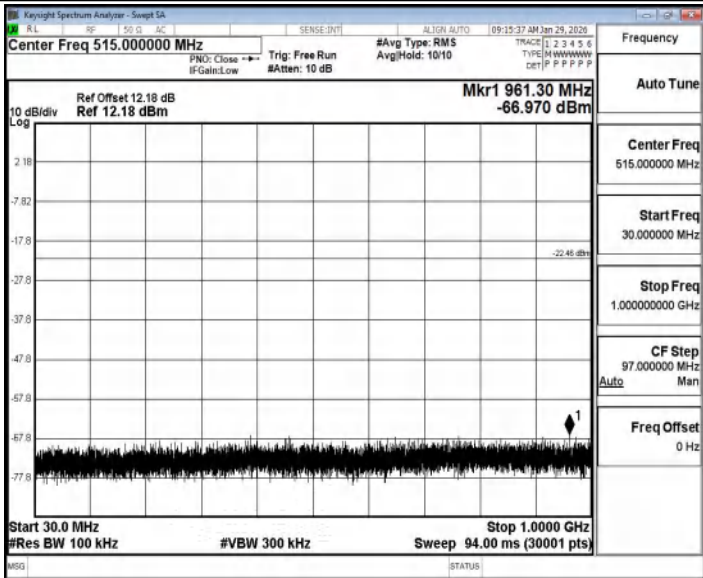
11G_Ant1_2462_1000~26500



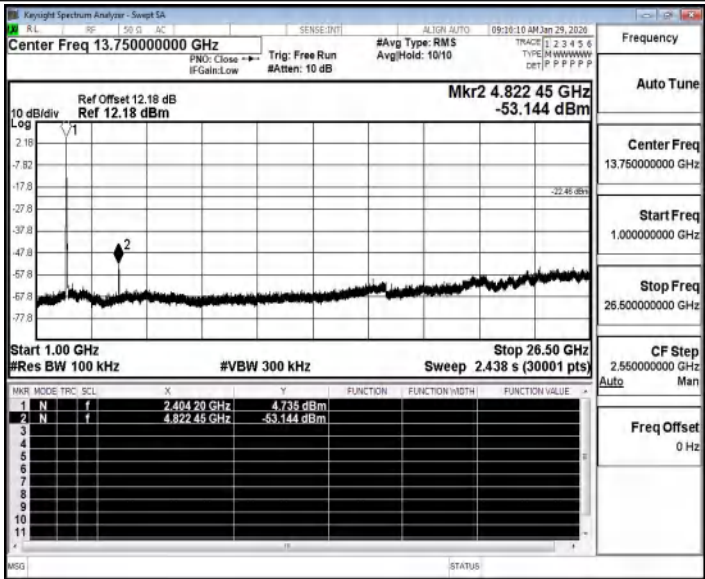
11N20SISO_Ant1_2412_0~Reference



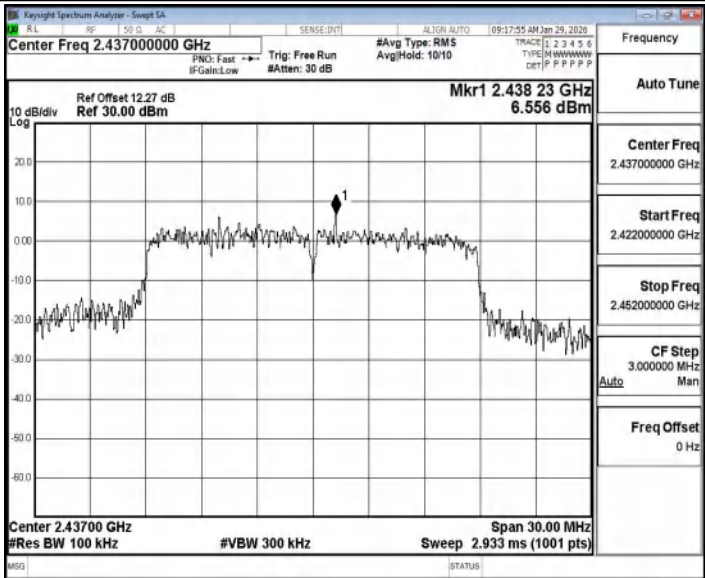
11N20SISO_Ant1_2412_30~1000



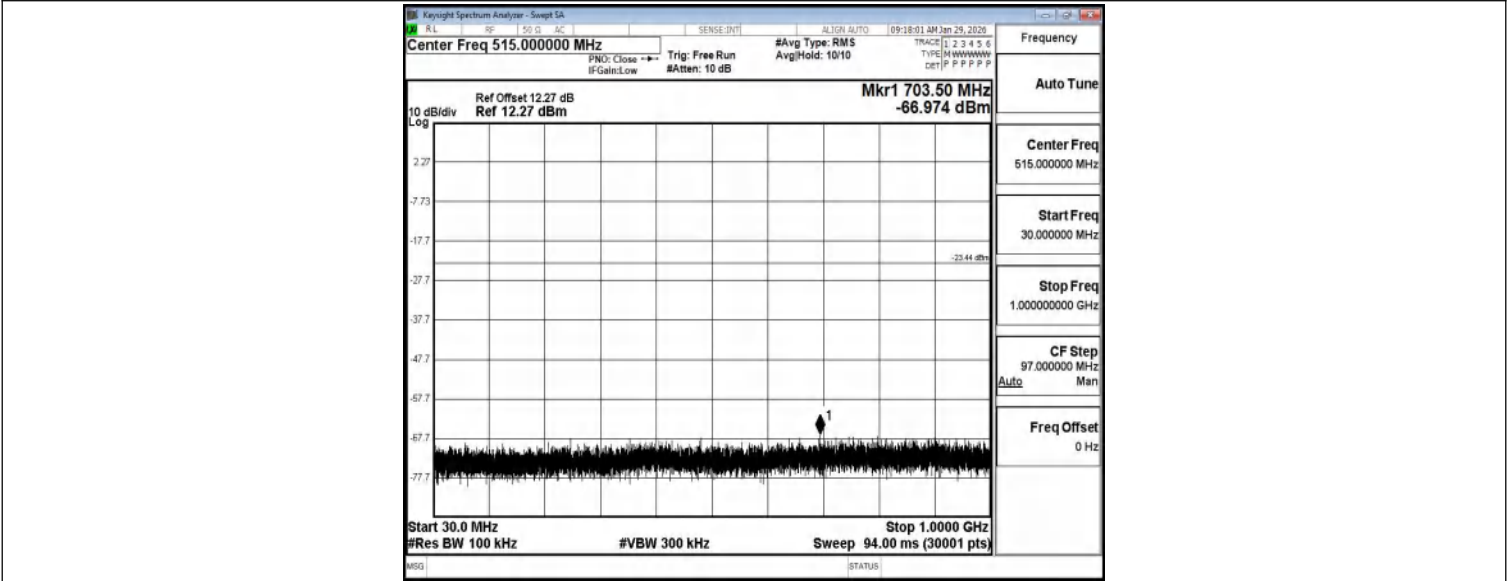
11N20SISO_Ant1_2412_1000~26500



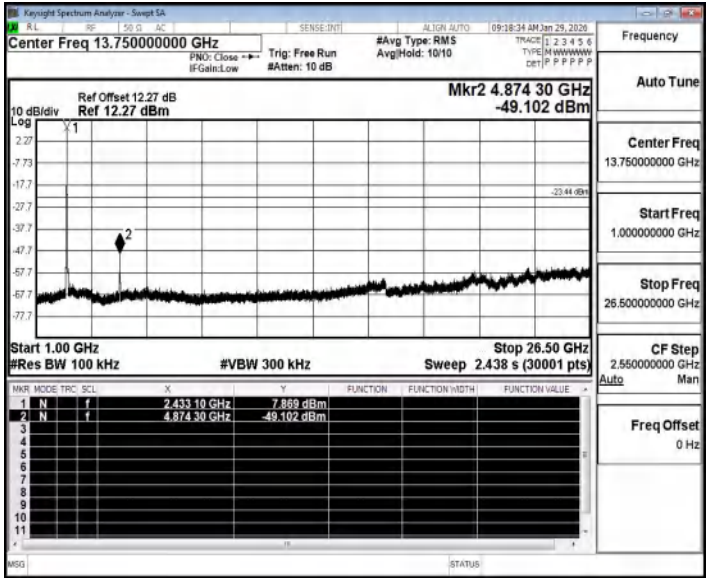
11N20SISO_Ant1_2437_0~Reference



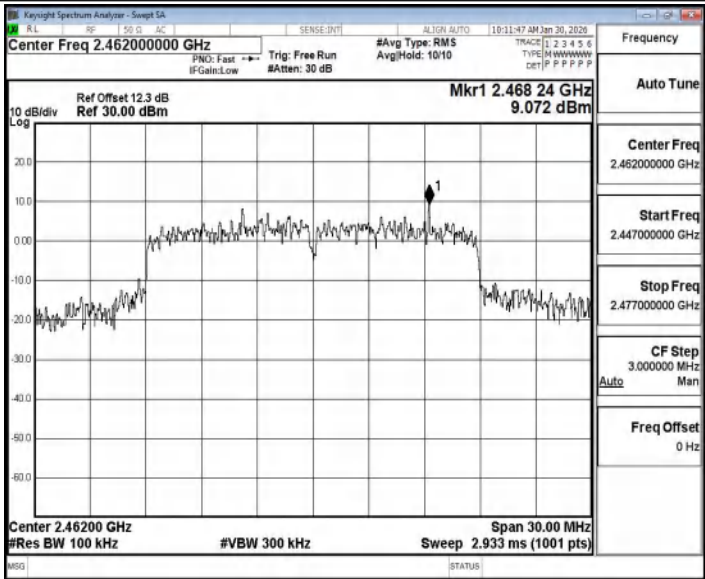
11N20SISO_Ant1_2437_30~1000



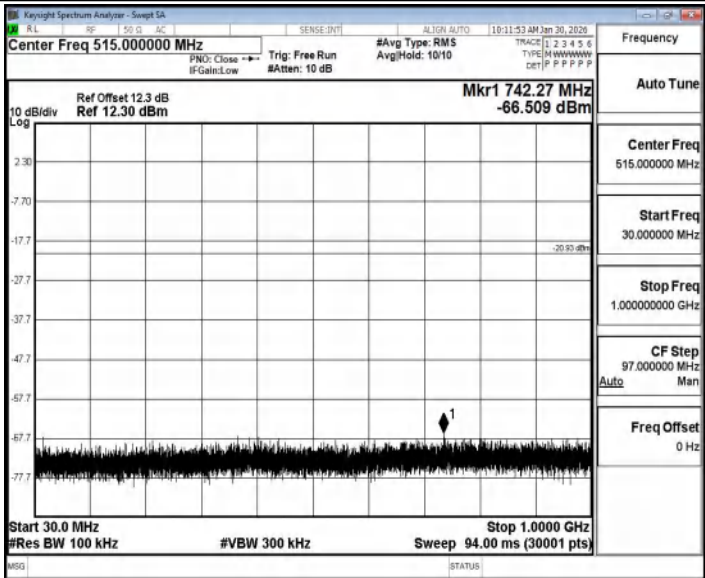
11N20SISO_Ant1_2437_1000~26500



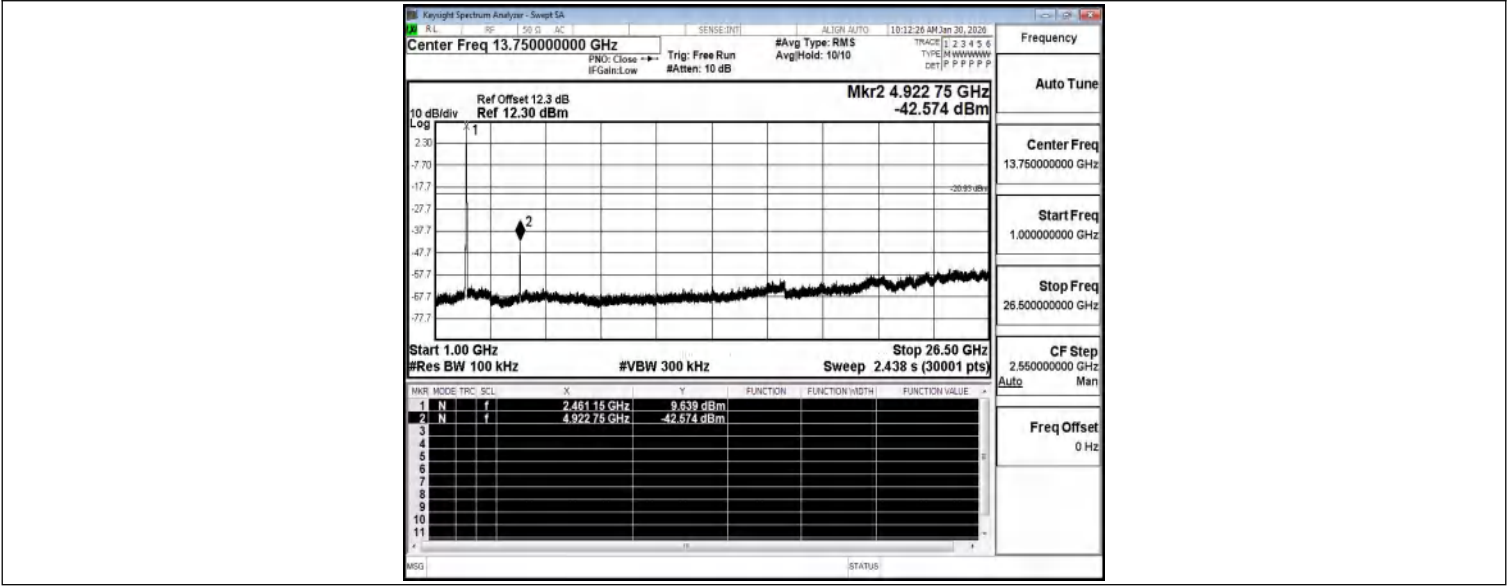
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



C.6 Duty Cycle

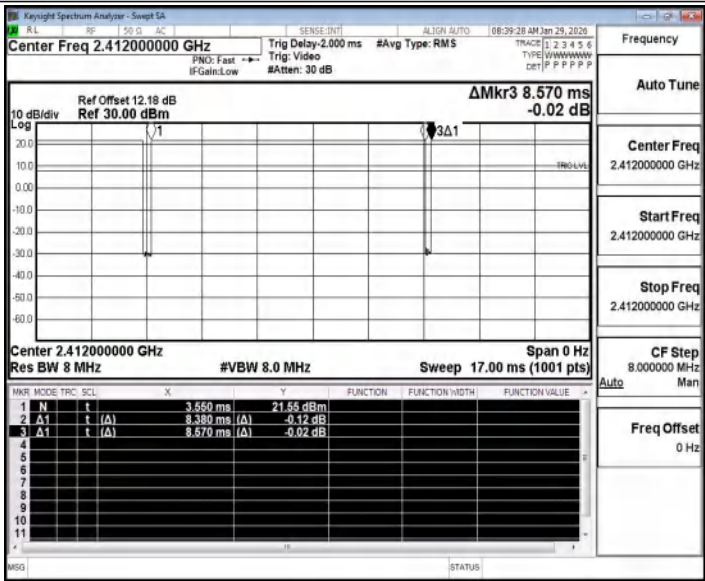
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	xFactor
11B	Ant1	2412	8.38	8.57	97.78	0.10
		2437	8.39	8.57	97.90	0.09
		2462	8.39	8.62	97.33	0.12
11G	Ant1	2412	1.39	1.63	85.28	0.69
		2437	1.40	1.58	88.61	0.53
		2462	1.39	1.57	88.54	0.53
11N20SISO	Ant1	2412	1.31	1.47	89.12	0.50
		2437	1.30	1.54	84.42	0.74
		2462	1.30	1.47	88.44	0.53

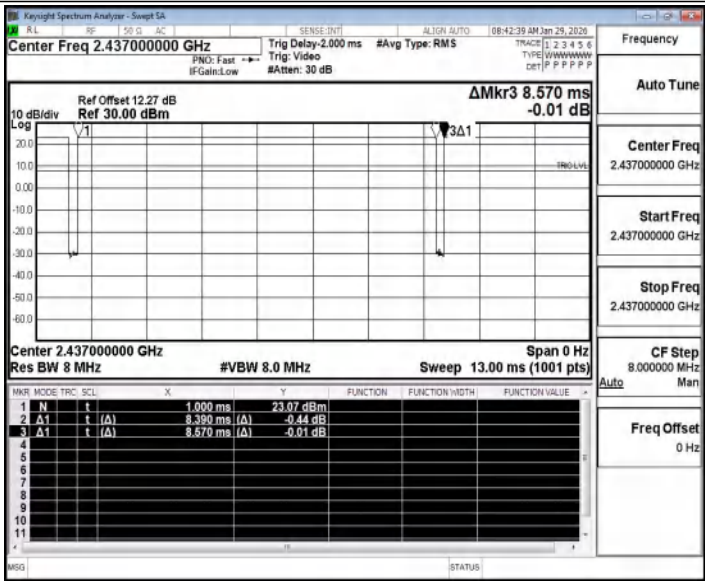
Note :offset=System attenuation +cabal loss

Test Graphs

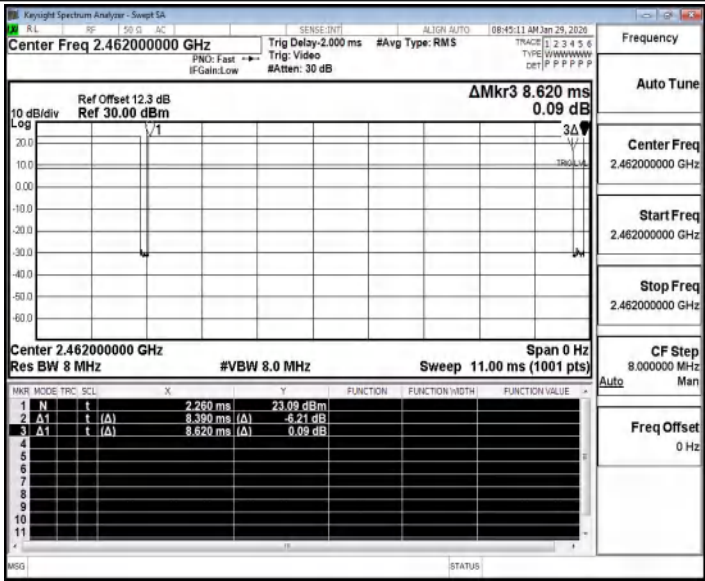
11B_Ant1_2412



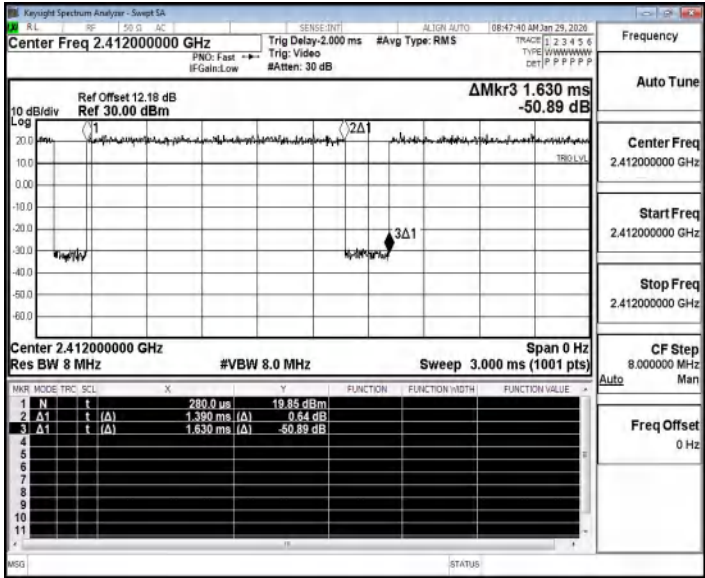
11B_Ant1_2437



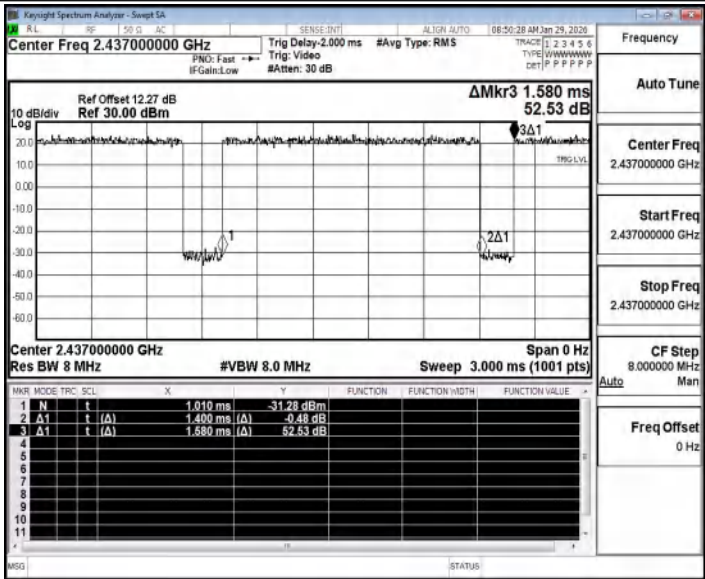
11B_Ant1_2462



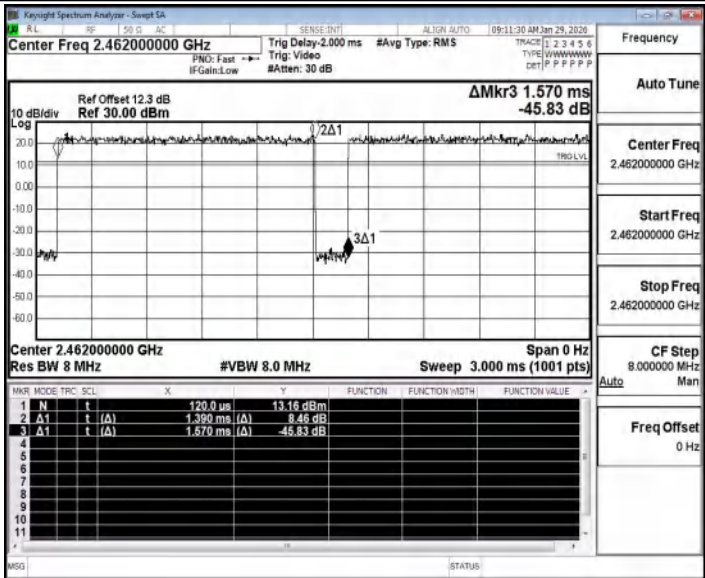
11G_Ant1_2412



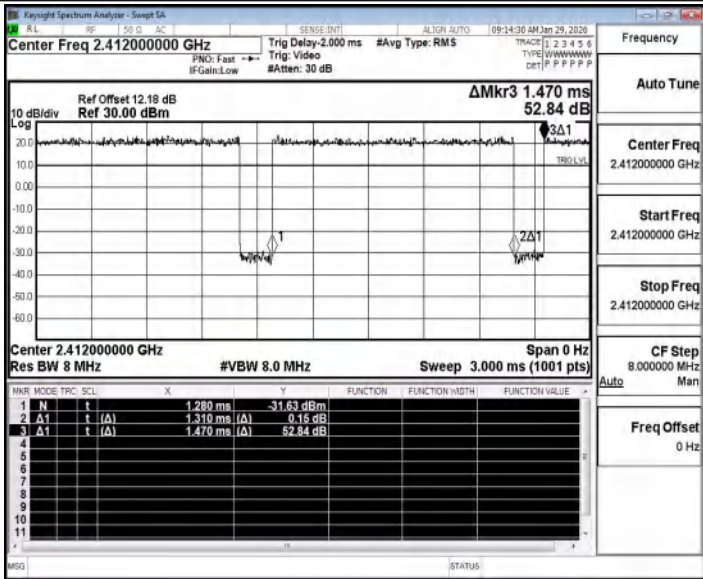
11G_Ant1_2437



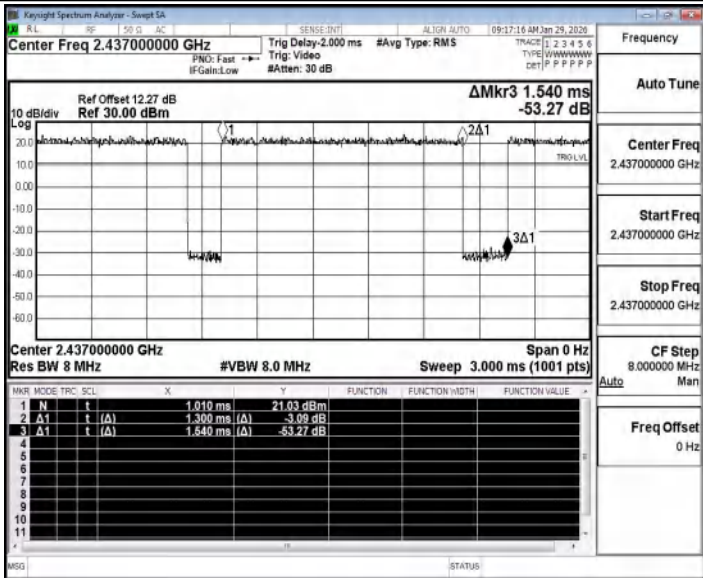
11G_Ant1_2462



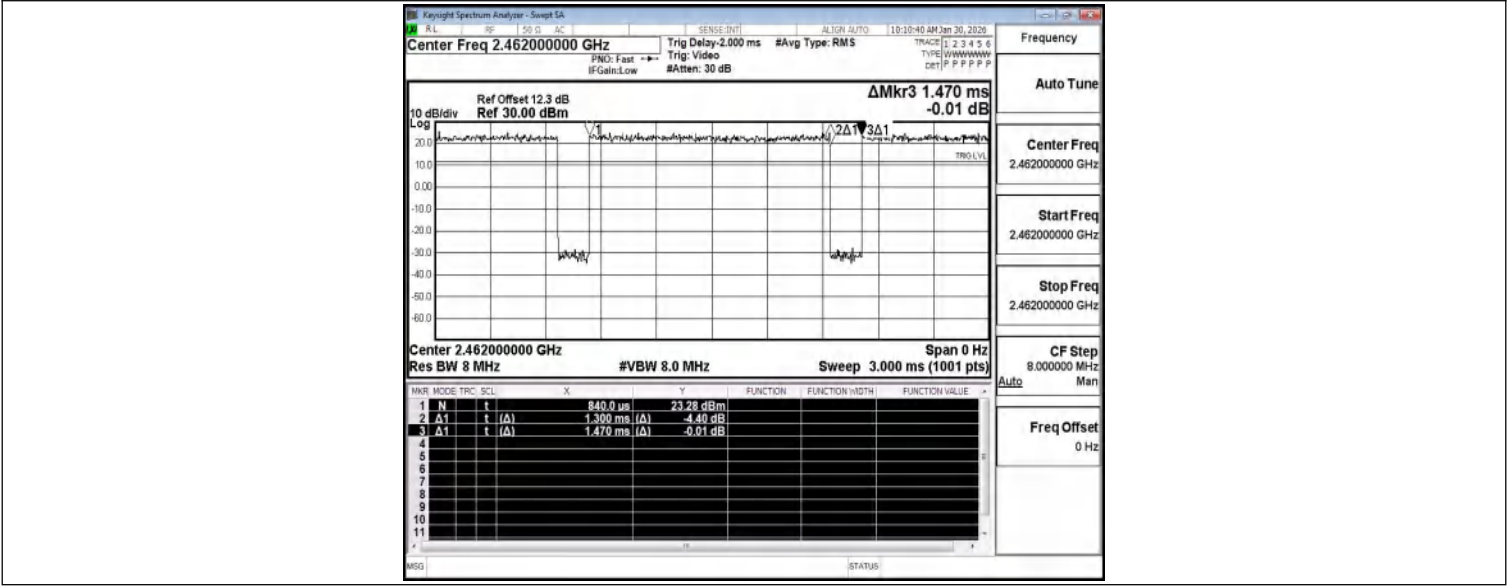
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



C.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-60.62	≤-43.30	2.00	0.10	36.68	≤54	PASS
				AV	2389.570	-49.86	≤-43.30	2.00	0.10	47.44	≤54	PASS
				AV	2390.000	-50.21	≤-43.30	2.00	0.10	47.09	≤54	PASS
				Peak	2310.000	-52.6	≤-23.20	2.00	0.00	44.60	≤74	PASS
				Peak	2389.960	-42.97	≤-23.20	2.00	0.00	54.23	≤74	PASS
				Peak	2390.000	-42.97	≤-23.20	2.00	0.00	54.23	≤74	PASS
		High	2462	AV	2483.500	-48.86	≤-43.32	2.00	0.12	48.46	≤54	PASS
				AV	2483.670	-48.89	≤-43.32	2.00	0.12	48.43	≤54	PASS
				AV	2500.000	-56.05	≤-43.32	2.00	0.12	41.27	≤54	PASS
				Peak	2483.500	-42.97	≤-23.20	2.00	0.00	54.23	≤74	PASS
				Peak	2487.410	-42.57	≤-23.20	2.00	0.00	54.63	≤74	PASS
				Peak	2500.000	-49.07	≤-23.20	2.00	0.00	48.13	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-56.82	≤-43.89	2.00	0.69	41.07	≤54	PASS
				AV	2389.960	-45.33	≤-43.89	2.00	0.69	52.56	≤54	PASS
				AV	2390.000	-45.33	≤-43.89	2.00	0.69	52.56	≤54	PASS
				Peak	2310.000	-49.63	≤-23.20	2.00	0.00	47.57	≤74	PASS
				Peak	2389.960	-28.23	≤-23.20	2.00	0.00	68.97	≤74	PASS
				Peak	2390.000	-28.23	≤-23.20	2.00	0.00	68.97	≤74	PASS
		High	2462	AV	2483.500	-45.64	≤-43.73	2.00	0.53	52.09	≤54	PASS
				AV	2484.220	-44.03	≤-43.73	2.00	0.53	53.70	≤54	PASS
				AV	2500.000	-56.41	≤-43.73	2.00	0.53	41.32	≤54	PASS
				Peak	2483.500	-30.42	≤-23.20	2.00	0.00	66.78	≤74	PASS
				Peak	2483.780	-25.89	≤-23.20	2.00	0.00	71.31	≤74	PASS
				Peak	2500.000	-47.04	≤-23.20	2.00	0.00	50.16	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-57.32	≤-43.70	2.00	0.50	40.38	≤54	PASS
				AV	2389.180	-44.46	≤-43.70	2.00	0.50	53.24	≤54	PASS
				AV	2390.000	-45.04	≤-43.70	2.00	0.50	52.66	≤54	PASS
				Peak	2310.000	-50.13	≤-23.20	2.00	0.00	47.07	≤74	PASS
				Peak	2389.960	-27.3	≤-23.20	2.00	0.00	69.90	≤74	PASS
				Peak	2390.000	-27.3	≤-23.20	2.00	0.00	69.90	≤74	PASS
		High	2462	AV	2483.500	-47.19	≤-43.73	2.00	0.53	50.54	≤54	PASS
				AV	2484.220	-45.43	≤-43.73	2.00	0.53	52.30	≤54	PASS
				AV	2500.000	-56.65	≤-43.73	2.00	0.53	41.08	≤54	PASS
				Peak	2483.500	-28.8	≤-23.20	2.00	0.00	68.40	≤74	PASS

				Peak	2484.440	-26.07	≤-23.20	2.00	0.00	71.13	≤74	PASS
				Peak	2500.000	-48.88	≤-23.20	2.00	0.00	48.32	≤74	PASS

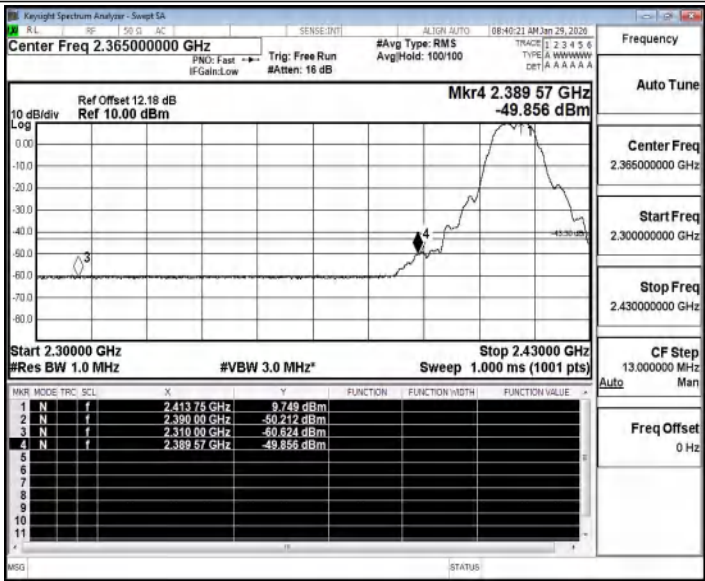
Note :offset=System attenuation +cabal loss

Note:

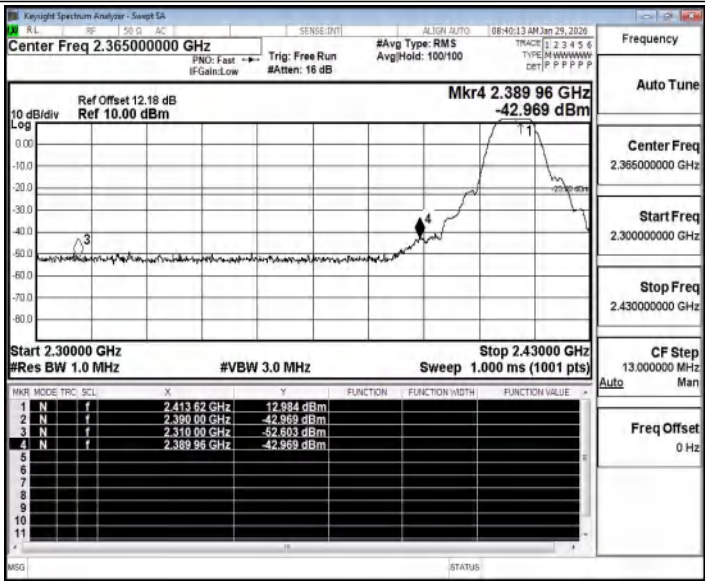
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

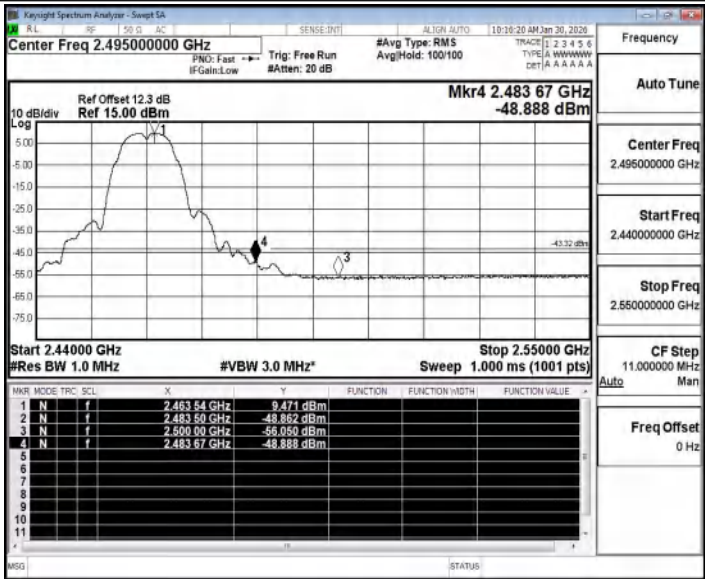
11B_Ant1_Low_2412_AV



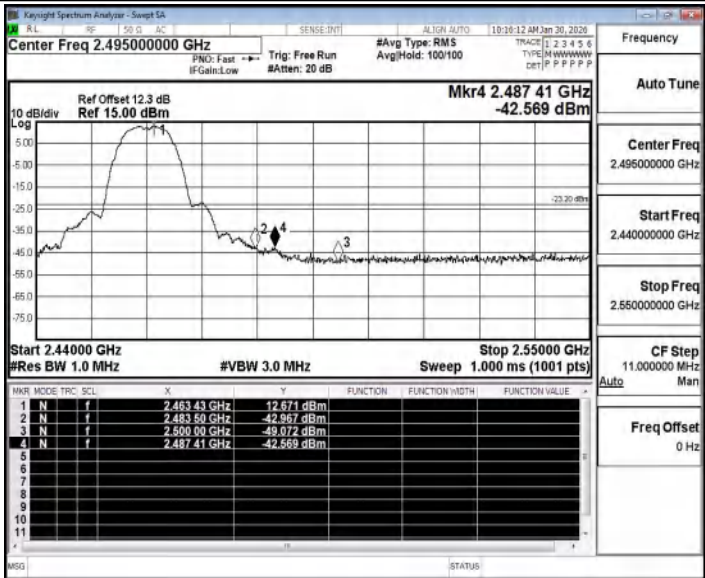
11B_Ant1_Low_2412_Peak



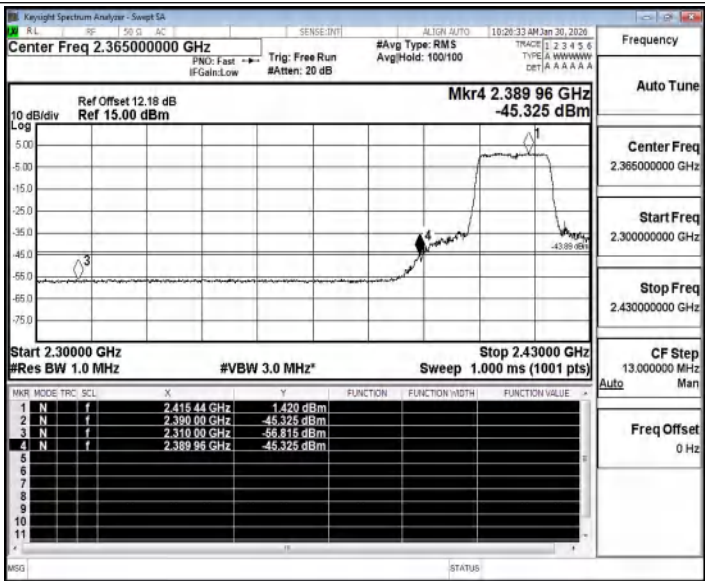
11B_Ant1_High_2462_AV



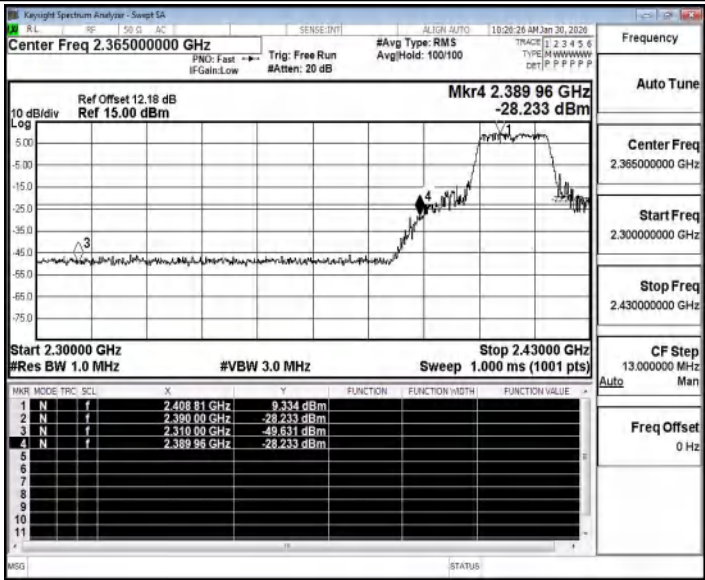
11B_Ant1_High_2462_Peak



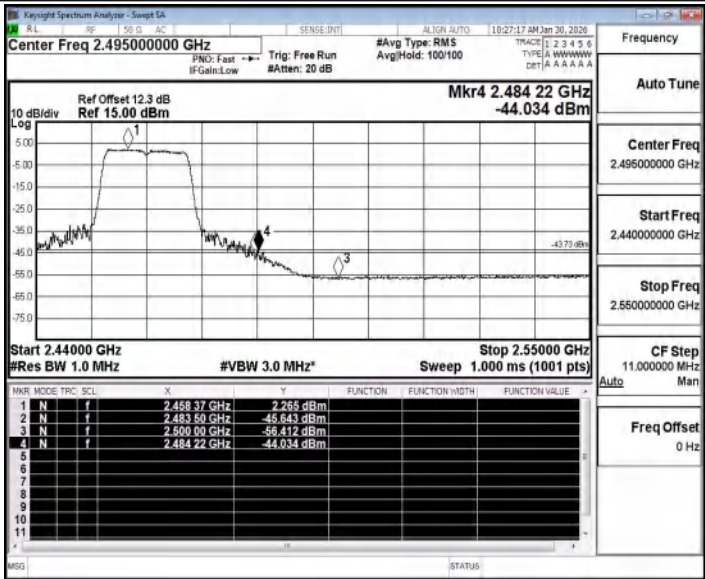
11G_Ant1_Low_2412_AV



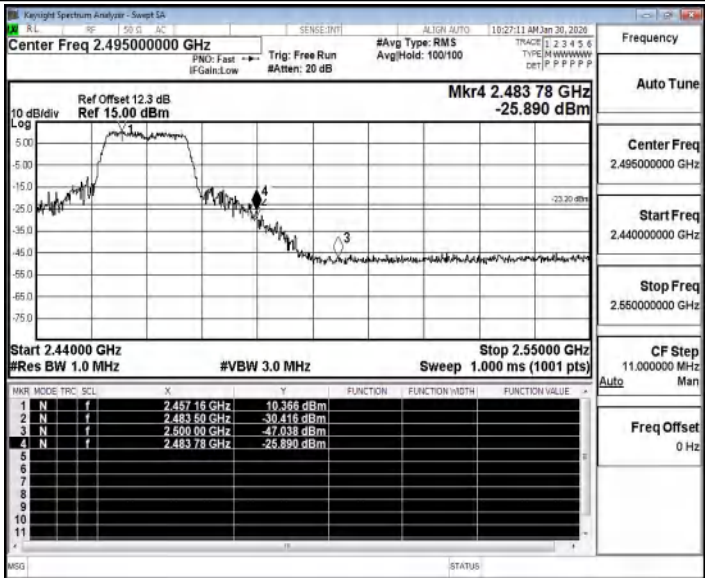
11G_Ant1_Low_2412_Peak



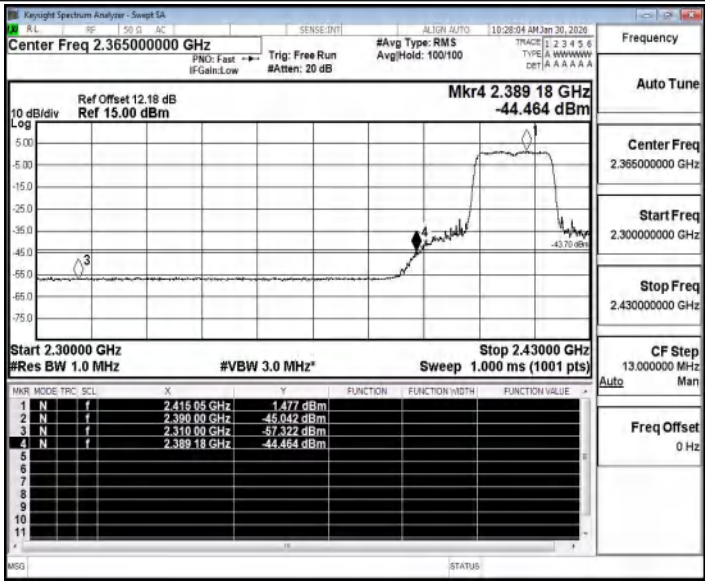
11G_Ant1_High_2462_AV



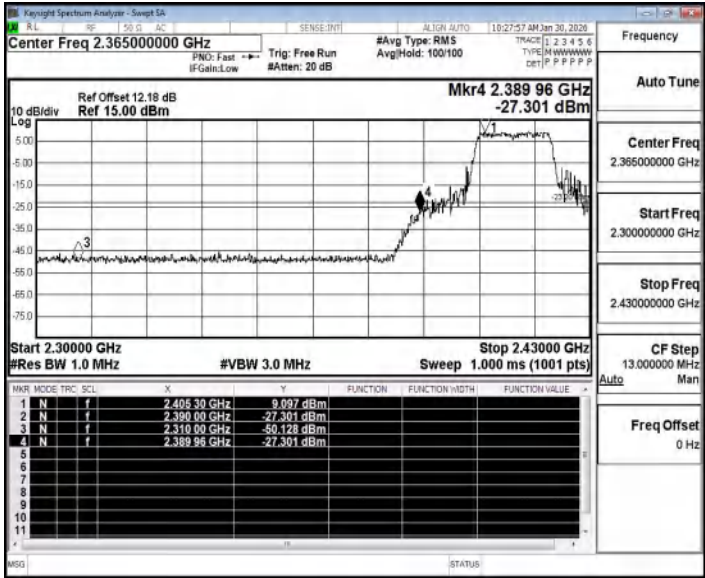
11G_Ant1_High_2462_Peak



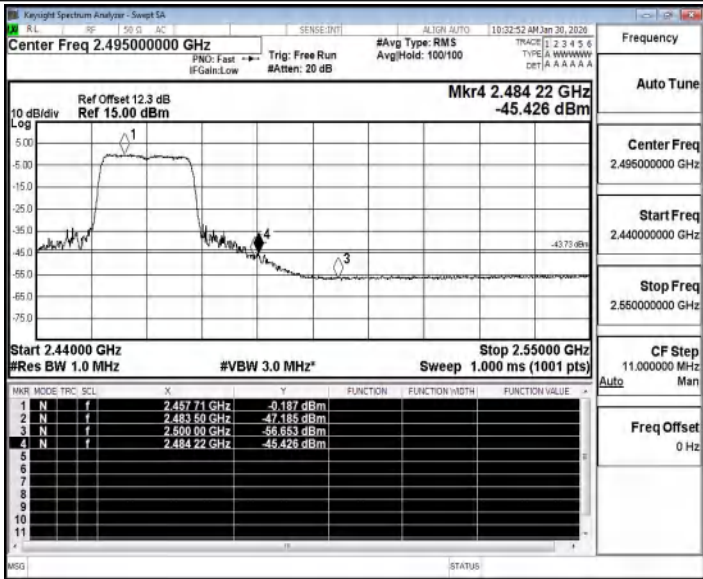
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

