



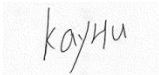
Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 7 Inch Tablet Space 7

Test Model: UNIQ0122

Environmental Conditions

Temperature:	22.3℃
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	
	Kay Hu
Supervised by:	
	Li Huan



C.1 DTS Bandwidth

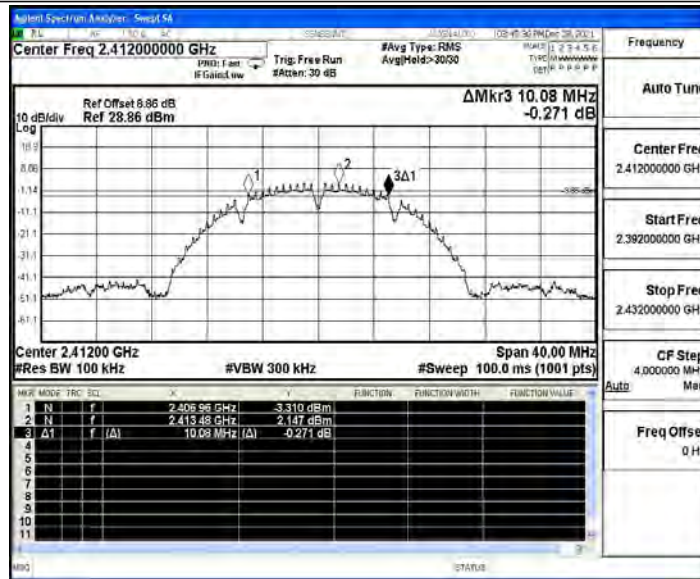
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2407.960	2416.080	0.5	PASS
		2437	10.040	2432.960	2440.600	0.5	PASS
		2462	10.040	2458.440	2465.600	0.5	PASS
11G	Ant1	2412	16.320	2404.800	2419.560	0.5	PASS
		2437	16.360	2429.440	2444.560	0.5	PASS
		2462	16.320	2454.720	2469.600	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.440	2419.840	0.5	PASS
		2437	17.600	2429.480	2444.600	0.5	PASS
		2462	17.560	2453.480	2469.560	0.5	PASS
11N40SISO	Ant1	2422	36.000	2404.400	2439.600	0.5	PASS
		2437	35.840	2420.440	2454.600	0.5	PASS
		2452	35.840	2434.320	2469.600	0.5	PASS

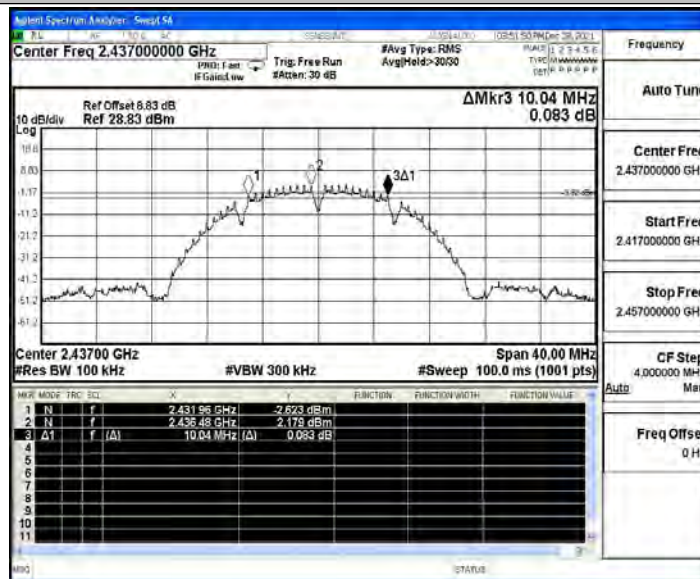


Test Graphs

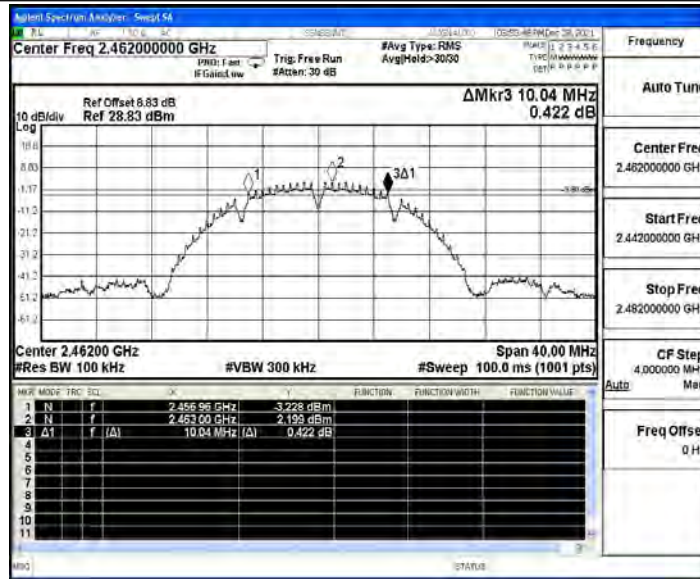
11B_Ant1_2412



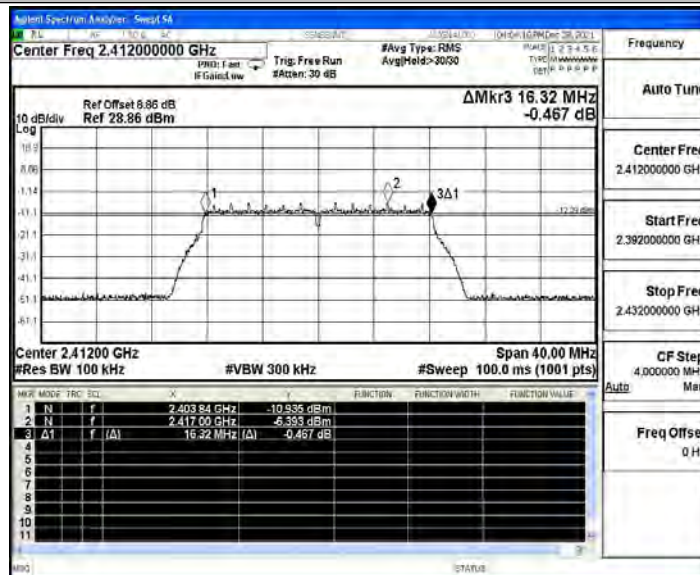
11B_Ant1_2437



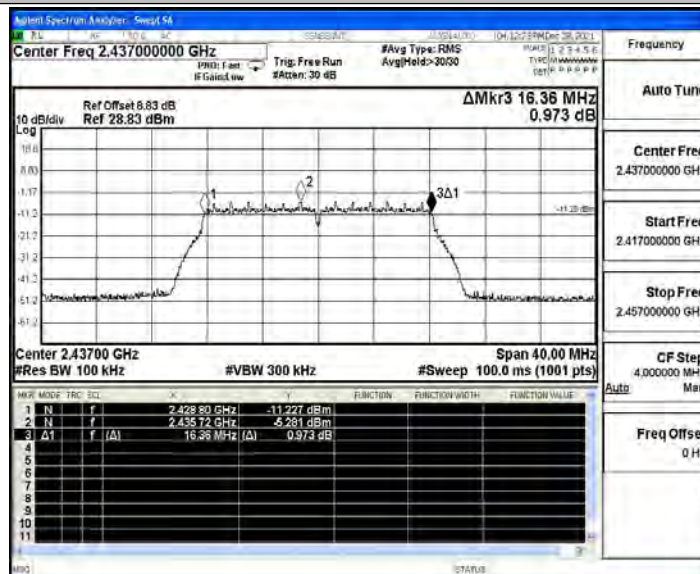
11B_Ant1_2462



11G_Ant1_2412

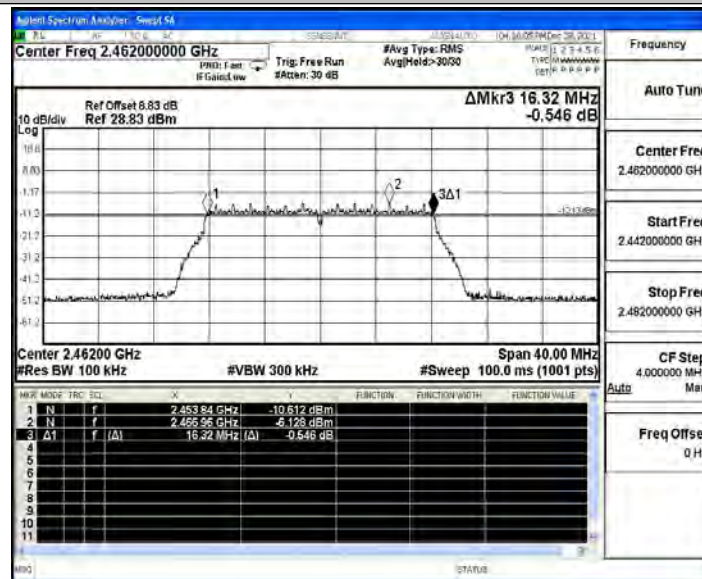


11G_Ant1_2437

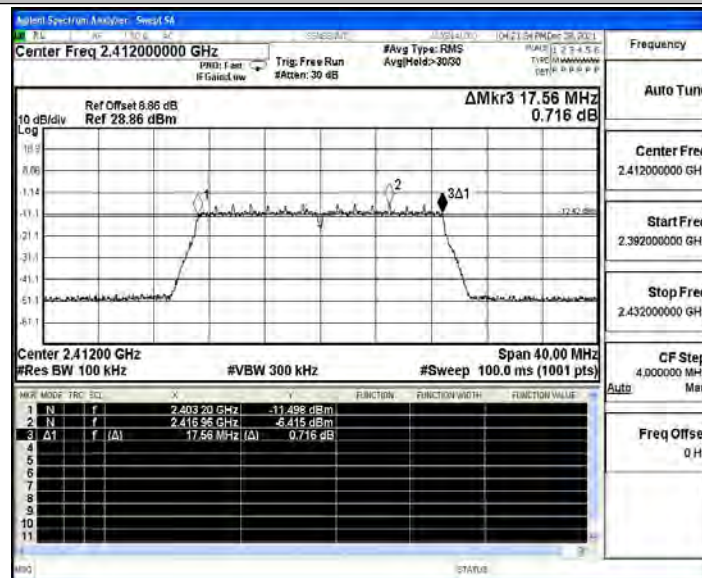




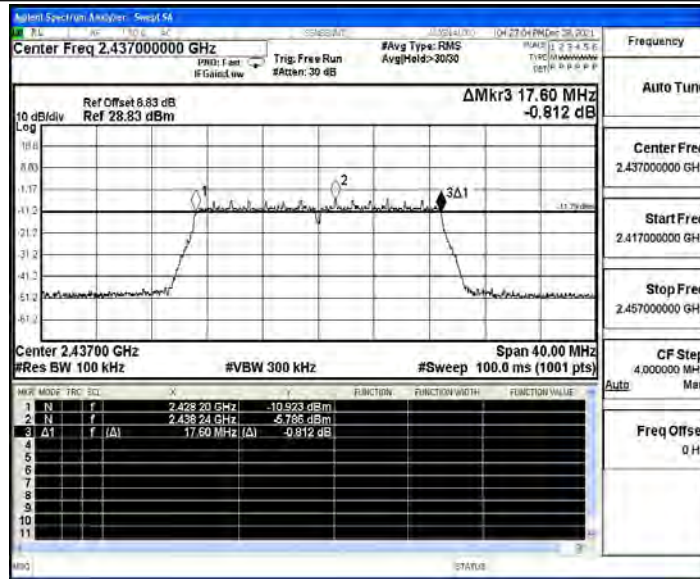
11G_Ant1_2462



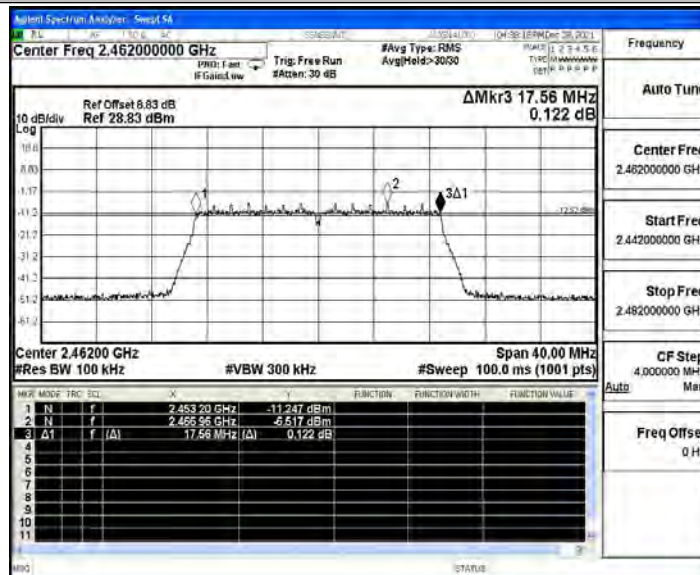
11N20SISO_Ant1_2412



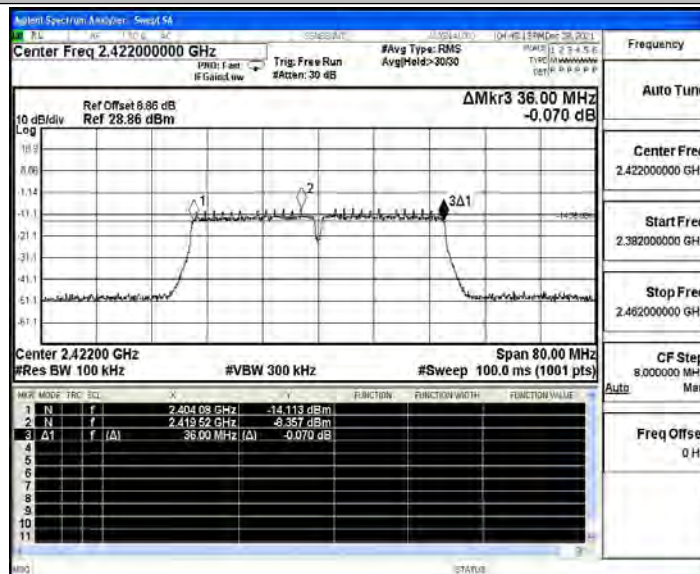
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

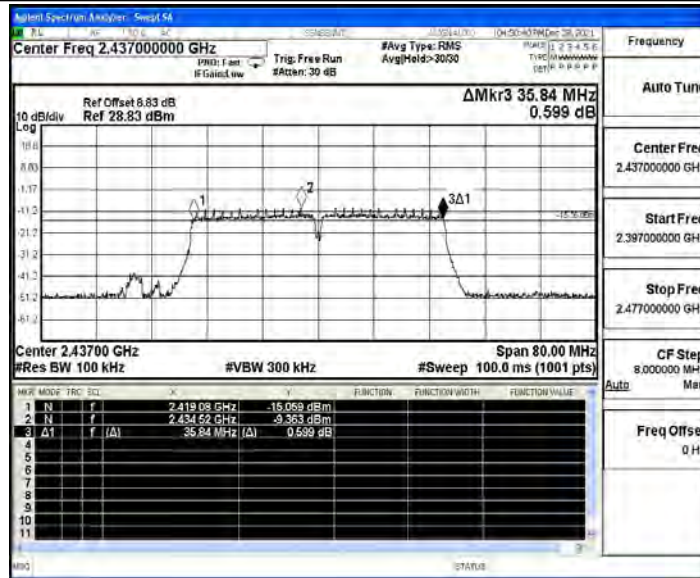


11N40SISO_Ant1_2422

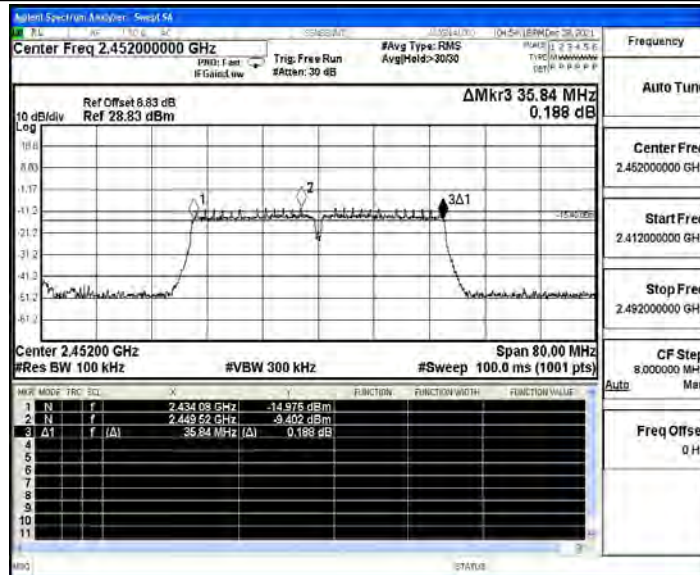




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





C.2 Maximum peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	14.31	≤ 30	PASS
		2437	14.37	≤ 30	PASS
		2462	14.16	≤ 30	PASS
11G	Ant1	2412	13.16	≤ 30	PASS
		2437	14.28	≤ 30	PASS
		2462	13.40	≤ 30	PASS
11N20SISO	Ant1	2412	13.09	≤ 30	PASS
		2437	13.65	≤ 30	PASS
		2462	12.93	≤ 30	PASS
11N40SISO	Ant1	2422	13.90	≤ 30	PASS
		2437	12.88	≤ 30	PASS
		2452	12.78	≤ 30	PASS

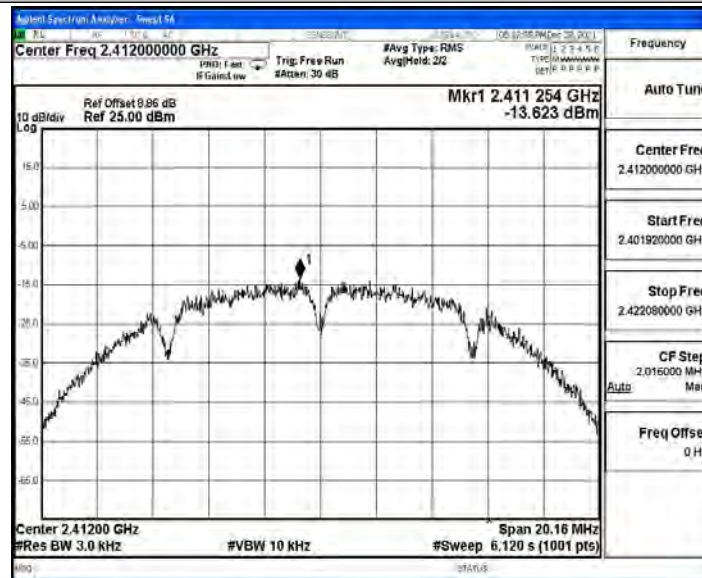


C.3 Maximum power spectral density

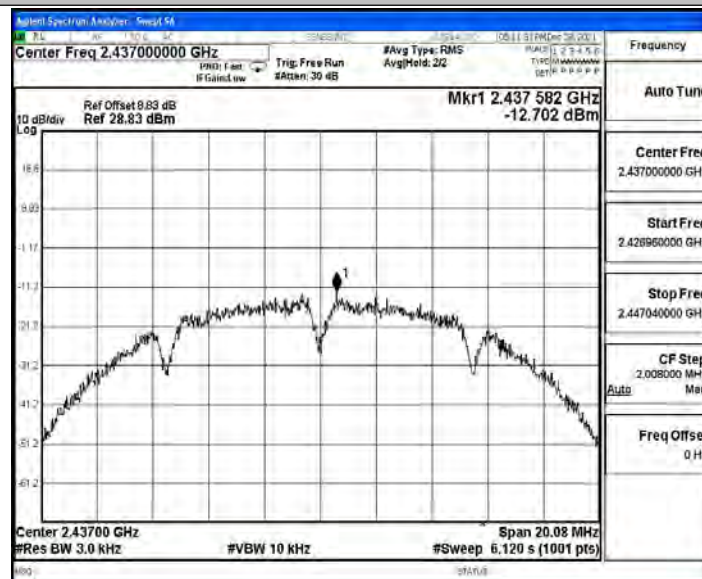
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.62	≤8	PASS
		2437	-12.7	≤8	PASS
		2462	-13.06	≤8	PASS
11G	Ant1	2412	-21.35	≤8	PASS
		2437	-19.01	≤8	PASS
		2462	-20.1	≤8	PASS
11N20SISO	Ant1	2412	-21.51	≤8	PASS
		2437	-20.16	≤8	PASS
		2462	-19.61	≤8	PASS
11N40SISO	Ant1	2422	-22.5	≤8	PASS
		2437	-23.93	≤8	PASS
		2452	-23.04	≤8	PASS

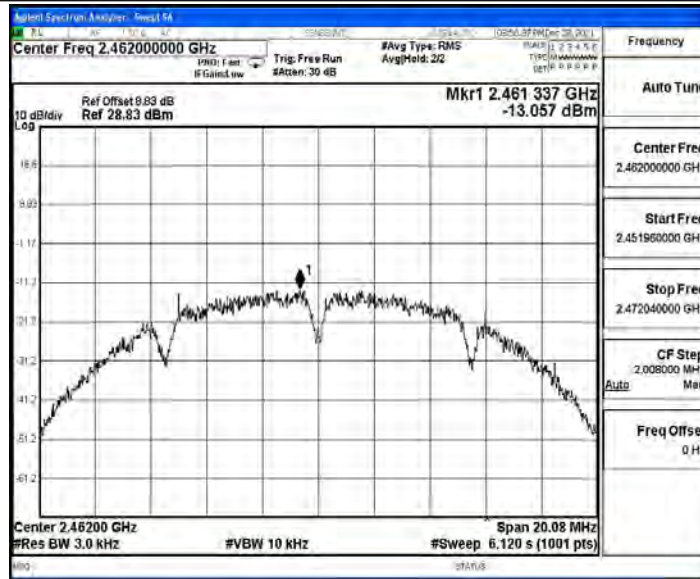
11B_Ant1_2412



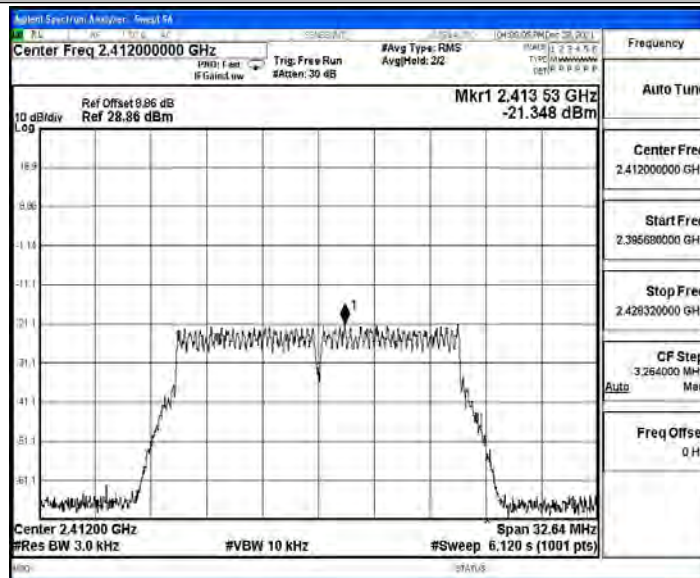
11B_Ant1_2437



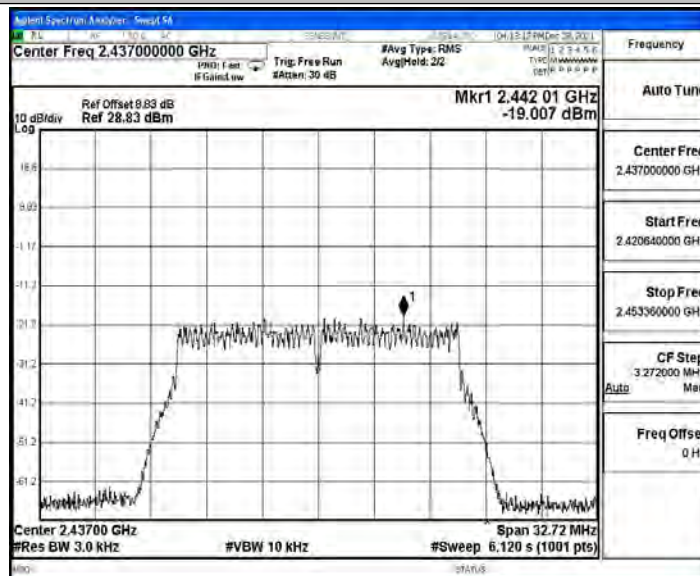
11B_Ant1_2462

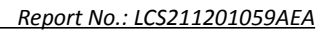


11G_Ant1_2412



11G_Ant1_2437





Agilent Spectrum Analyzer - fmeul5A

Center Freq 2.46200000 GHz

Trig: Free Run

#Avg Type: RMS

AvgHold: 32

Frequency

Auto Tun

Center Freq 2.46200000 GHz

Start Freq 2.44568000 GHz

Stop Freq 2.47832000 GHz

CF Step 3.264000 MHz

Auto

Freq Offset 0 Hz

Ref Offset 8.83 dB

Ref 28.83 dBm

Mkr1 2.46079 GHz

-20.104 dBm

10 dB/div

18.6

9.00

-11.7

-11.7

-21.8

-21.2

-41.3

-51.3

-61.2

Center 2.46200 GHz

#Res BW 3.0 kHz

#VBW 10 kHz

Span 32.64 MHz

#Sweep 6.120 s (1001 pts)

100%

STATUS

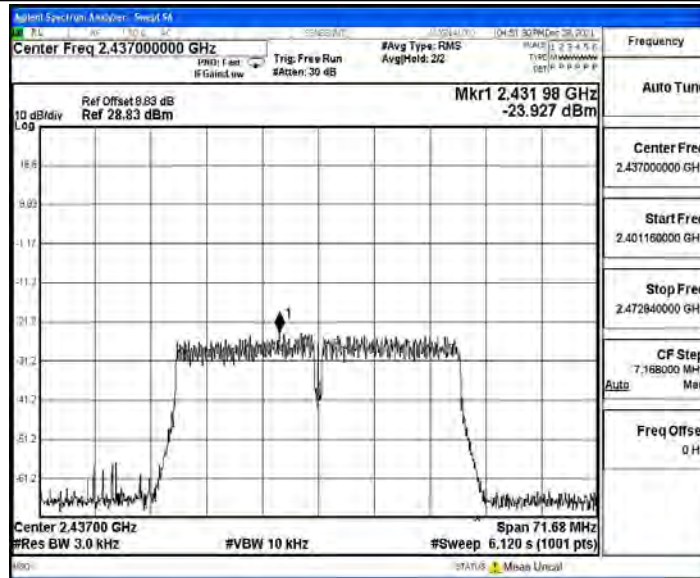
Keysight Spectrum Analyzer - fmeu15A
 F L A P T F S A
 Center Freq 2.41200000 GHz Span 35.12 MHz
 #Avg Type: RMS AvgHeld: 32
 Trig: Free Run SAttain: 30 dB
 Ref Offset 9.86 dB
 Ref 28.86 dBm
 Mkr1 2.407 29 GHz
 -21.514 dBm
 10 dB/div
 L69
 18.9
 8.96
 -1.14
 -11.1
 -21.1
 -31.1
 -41.1
 -51.1
 -61.1
 Center 2.41200 GHz
 #Res BW 3.0 kHz
 #VBW 10 kHz
 Span 35.12 MHz
 Sweep 6.120 s (1001 pts)
 400 STATUS

12 / 50

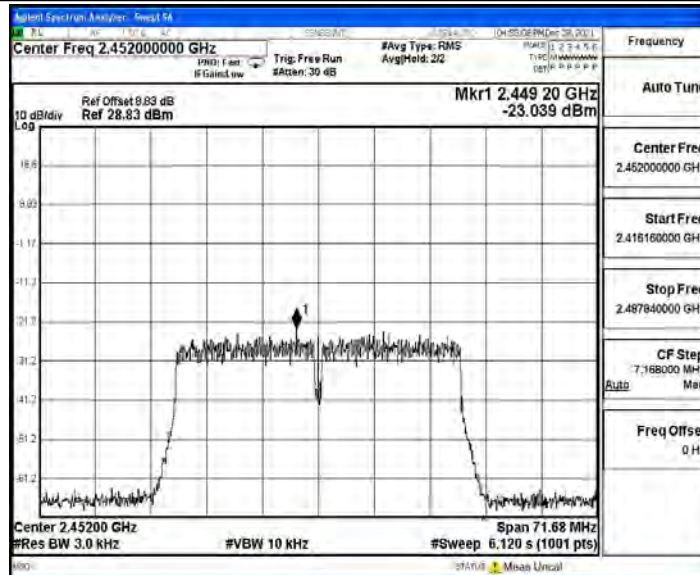




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





C.4 Band edge measurements

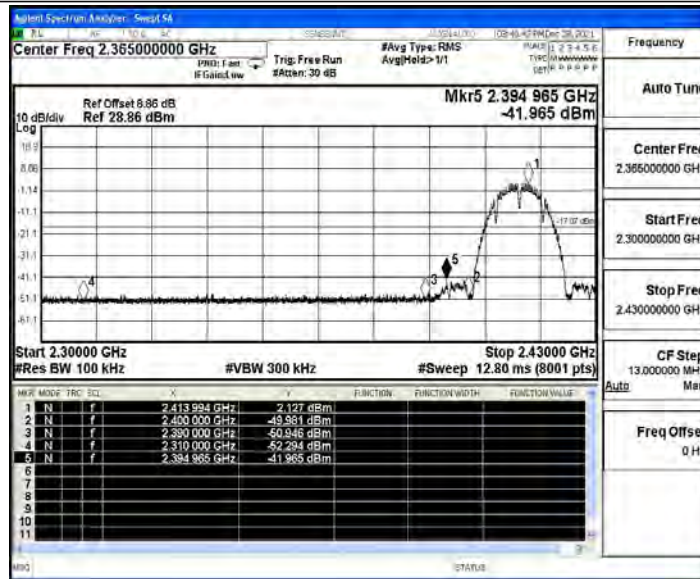
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.13	-41.97	≤ -17.87	PASS
		High	2462	2.22	-47.69	≤ -17.78	PASS
11G	Ant1	Low	2412	-5.94	-48.21	≤ -25.94	PASS
		High	2462	-6.23	-47.52	≤ -26.23	PASS
11N20SISO	Ant1	Low	2412	-6.08	-48.33	≤ -26.08	PASS
		High	2462	-6.25	-47.98	≤ -26.25	PASS
11N40SISO	Ant1	Low	2422	-8.28	-46.96	≤ -28.28	PASS
		High	2452	-9.42	-47.26	≤ -29.42	PASS

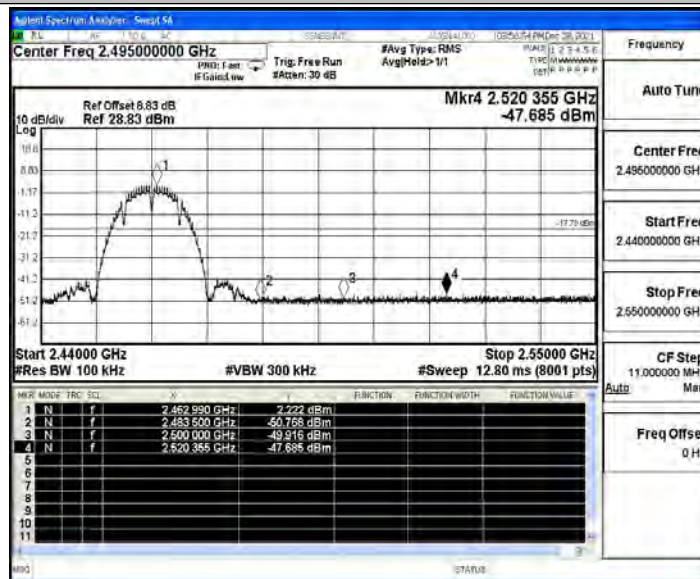


Test Graphs

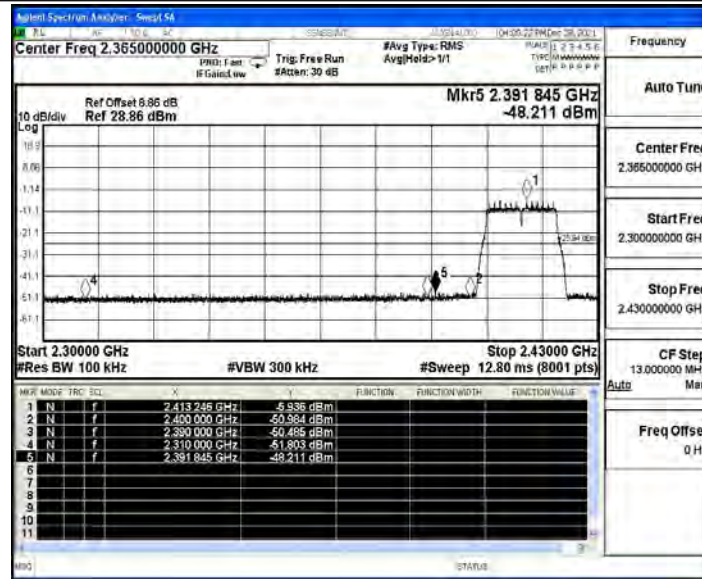
11B_Ant1_Low_2412



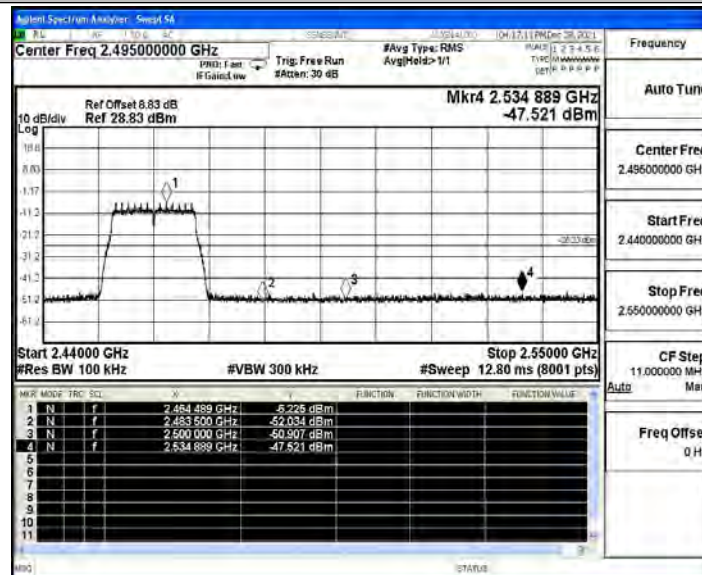
11B_Ant1_High_2462



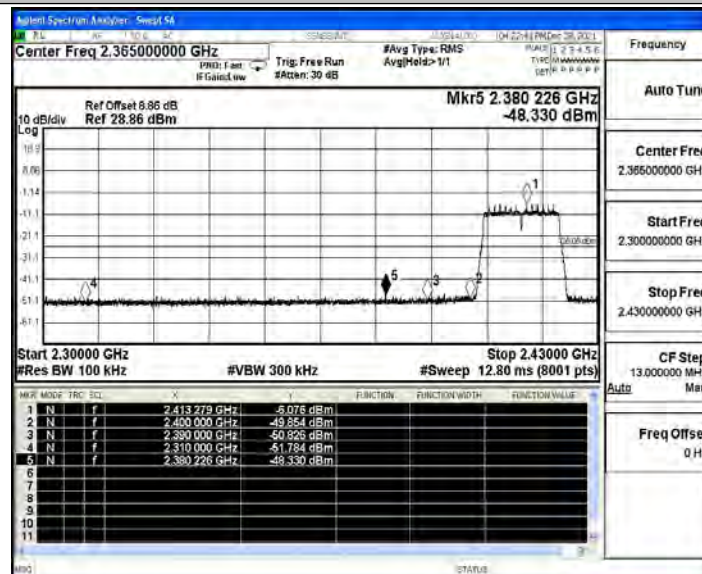
11G_Ant1_Low_2412



11G_Ant1_High_2462

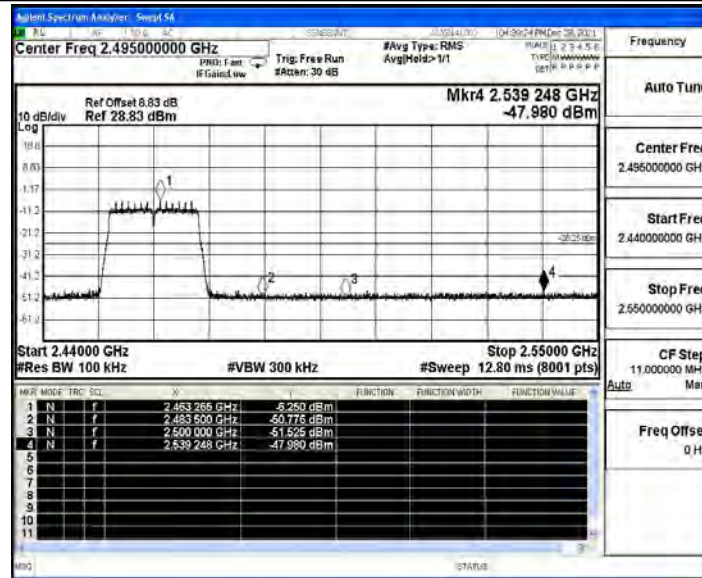


11N20SISO_Ant1_Low_2412

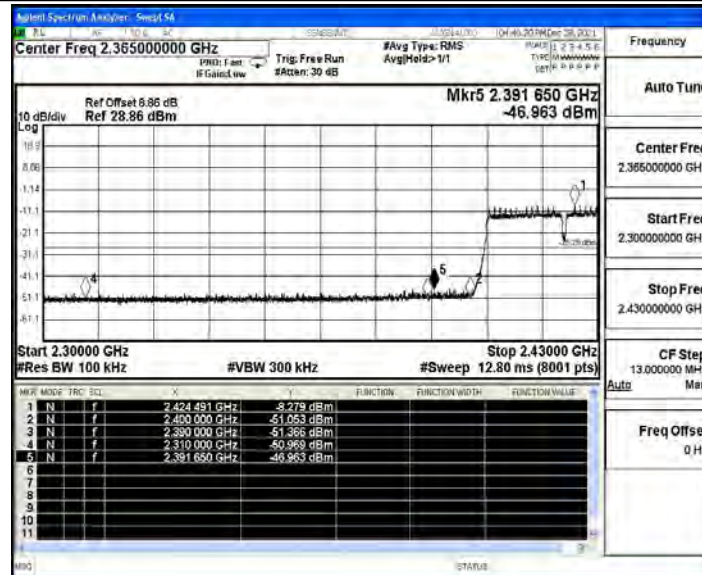




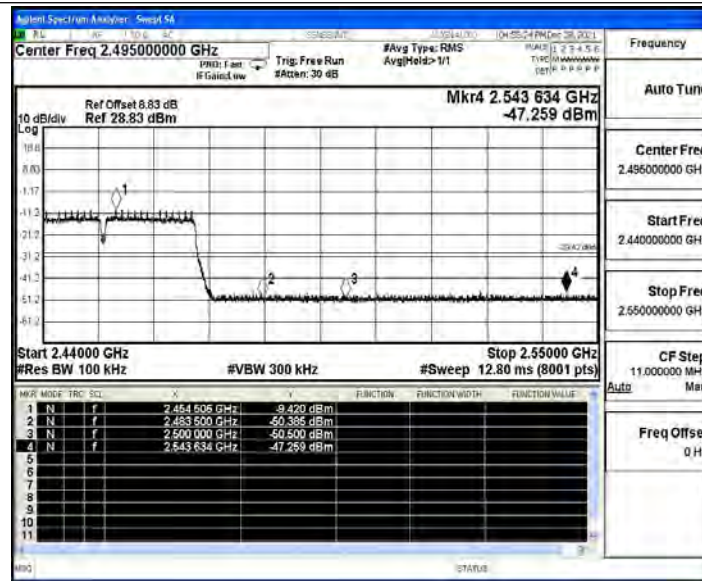
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452





C.5 Conducted Spurious Emission

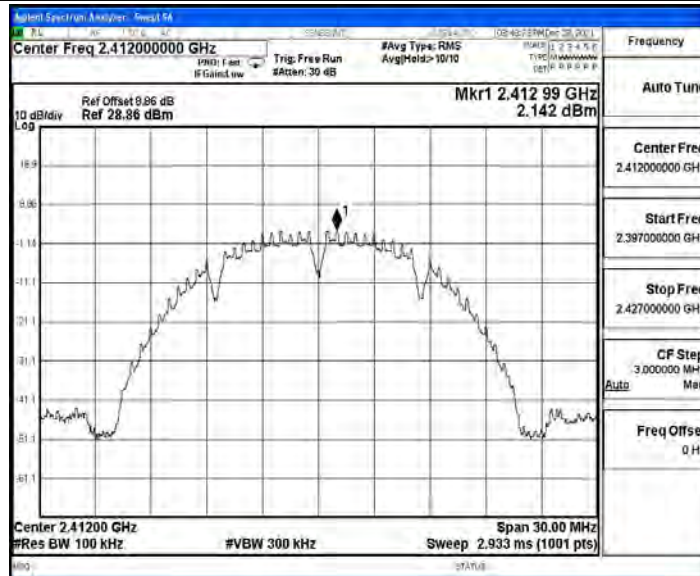
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.14	2.14	---	PASS
			30~1000	2.14	-60.65	≤ -17.86	PASS
			1000~26500	2.14	-46.02	≤ -17.86	PASS
		2437	Reference	2.44	2.44	---	PASS
			30~1000	2.44	-60.47	≤ -17.56	PASS
			1000~26500	2.44	-45.97	≤ -17.56	PASS
		2462	Reference	2.00	2.00	---	PASS
			30~1000	2.00	-60.14	≤ -18	PASS
			1000~26500	2.00	-45.06	≤ -18	PASS
11G	Ant1	2412	Reference	-5.98	-5.98	---	PASS
			30~1000	-5.98	-60.59	≤ -25.98	PASS
			1000~26500	-5.98	-46.15	≤ -25.98	PASS
		2437	Reference	-4.97	-4.97	---	PASS
			30~1000	-4.97	-38.96	≤ -24.97	PASS
			1000~26500	-4.97	-46.17	≤ -24.97	PASS
		2462	Reference	-5.69	-5.69	---	PASS
			30~1000	-5.69	-39.62	≤ -25.69	PASS
			1000~26500	-5.69	-45.9	≤ -25.69	PASS
11N20SISO	Ant1	2412	Reference	-6.49	-6.49	---	PASS
			30~1000	-6.49	-59.77	≤ -26.49	PASS
			1000~26500	-6.49	-45.94	≤ -26.49	PASS
		2437	Reference	-5.35	-5.35	---	PASS
			30~1000	-5.35	-60.58	≤ -25.35	PASS
			1000~26500	-5.35	-45.61	≤ -25.35	PASS
		2462	Reference	-6.15	-6.15	---	PASS
			30~1000	-6.15	-60.18	≤ -26.15	PASS
			1000~26500	-6.15	-45.93	≤ -26.15	PASS
11N40SISO	Ant1	2422	Reference	-8.21	-8.21	---	PASS
			30~1000	-8.21	-60.37	≤ -28.21	PASS
			1000~26500	-8.21	-45.66	≤ -28.21	PASS
		2437	Reference	-9.26	-9.26	---	PASS
			30~1000	-9.26	-60.82	≤ -29.26	PASS
			1000~26500	-9.26	-46.08	≤ -29.26	PASS
		2452	Reference	-9.51	-9.51	---	PASS
			30~1000	-9.51	-60.49	≤ -29.51	PASS
			1000~26500	-9.51	-45.78	≤ -29.51	PASS

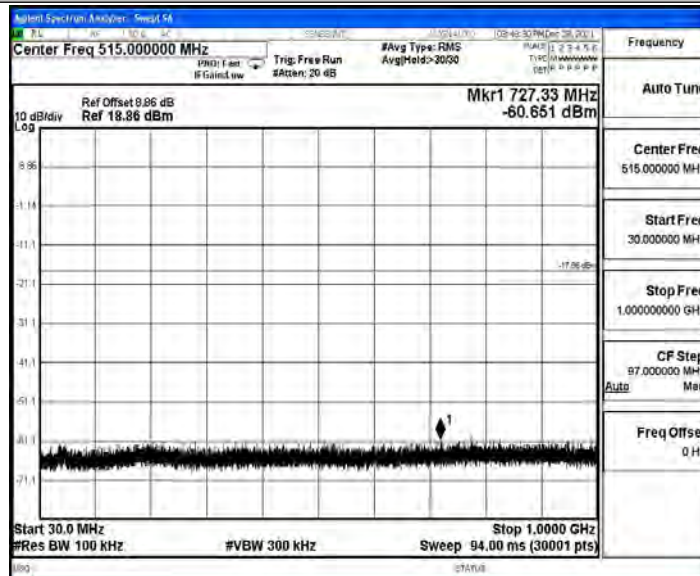


Test Graphs

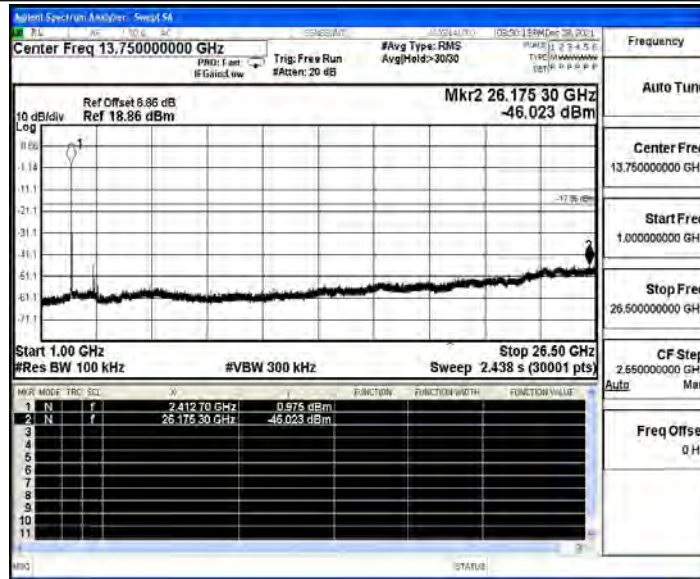
11B_Ant1_2412_0~Reference



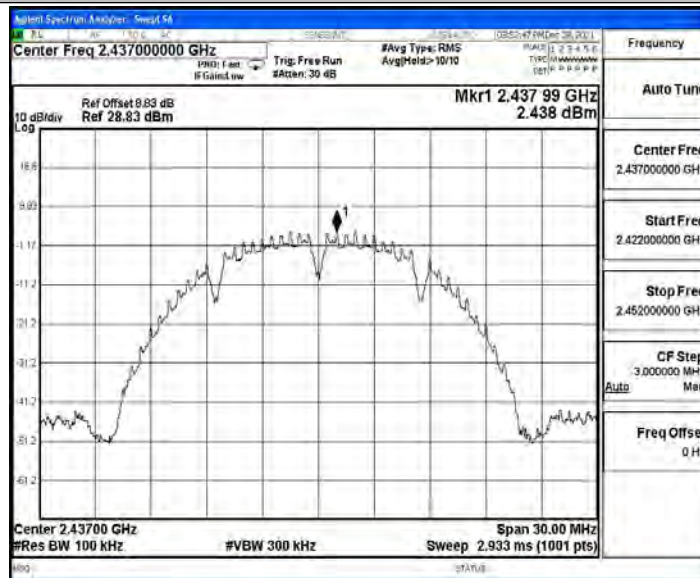
11B_Ant1_2412_30~1000



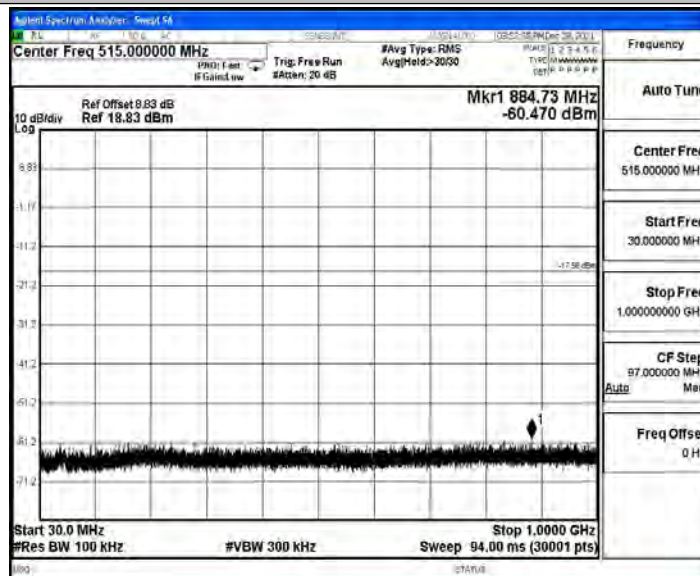
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference

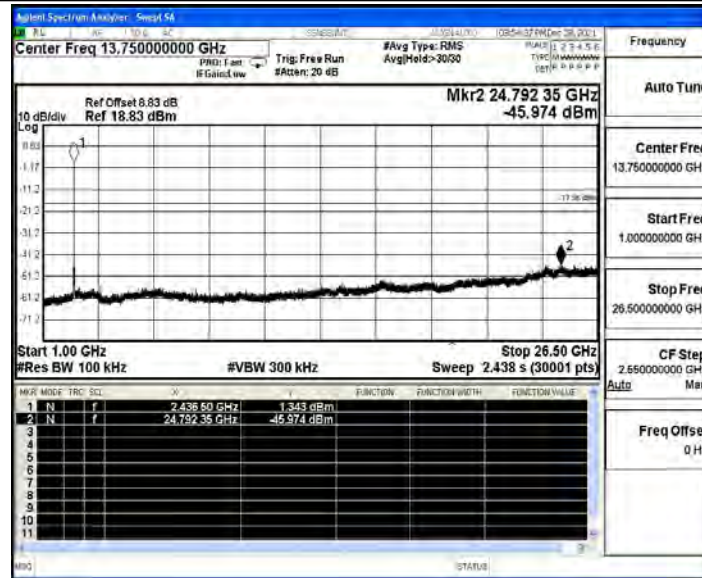


11B_Ant1_2437_30~1000

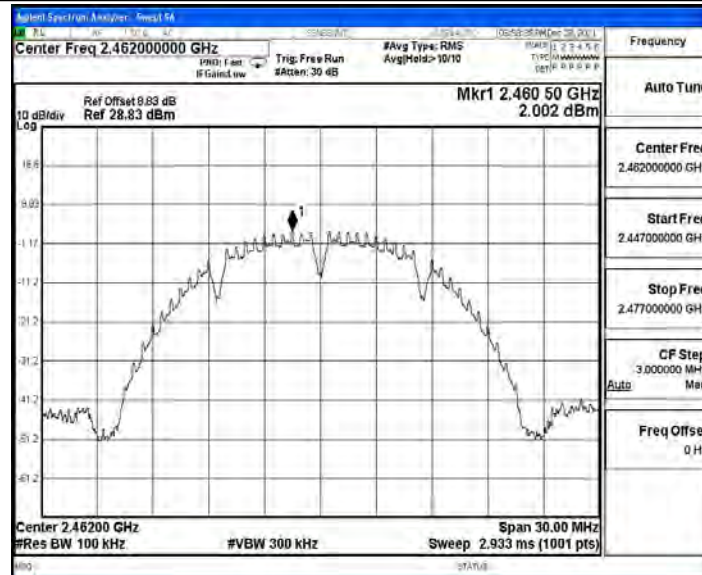




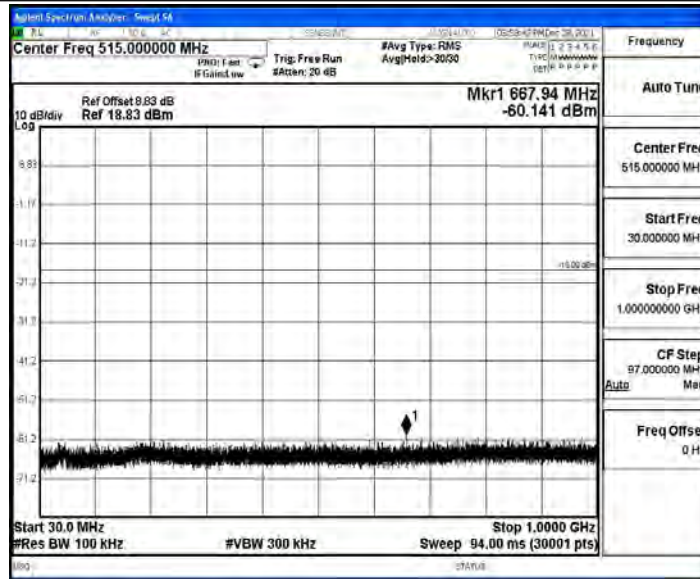
11B_Ant1_2437_1000~26500



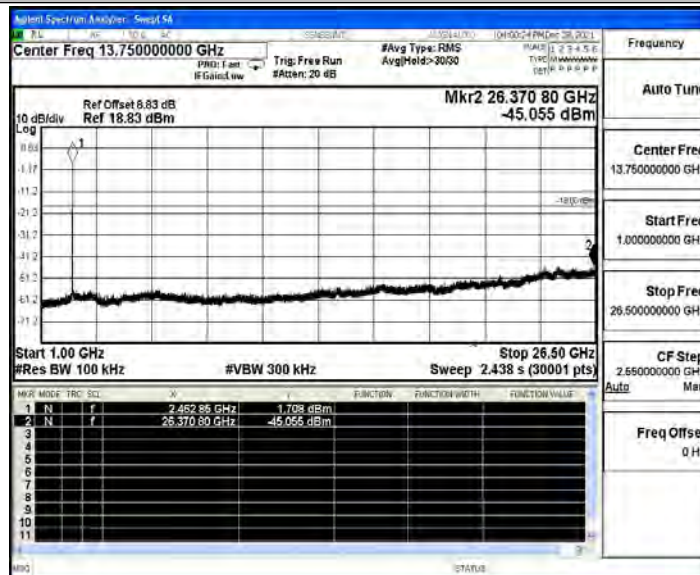
11B_Ant1_2462_0~Reference



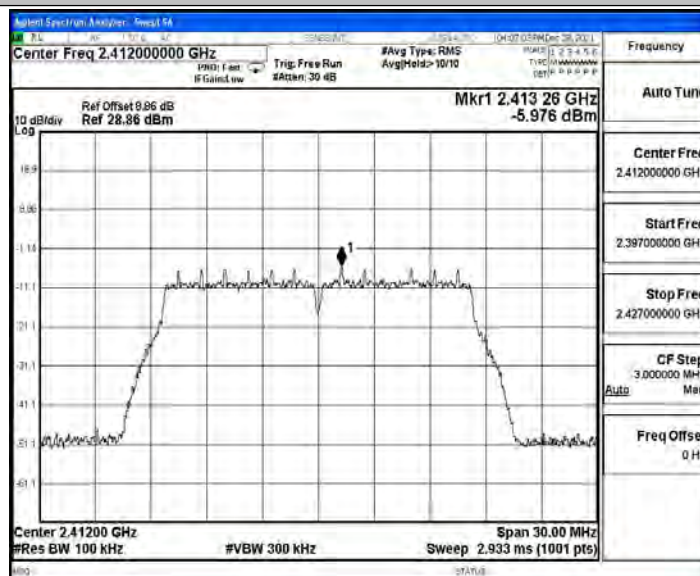
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

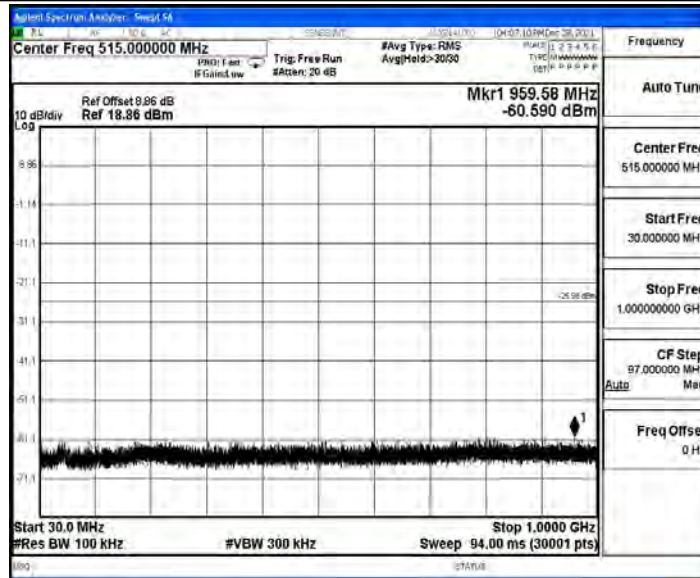


11G_Ant1_2412_0~Reference

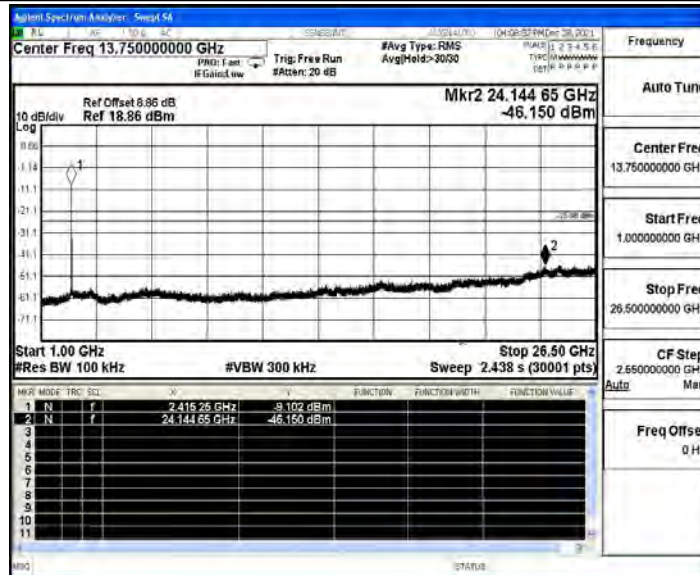




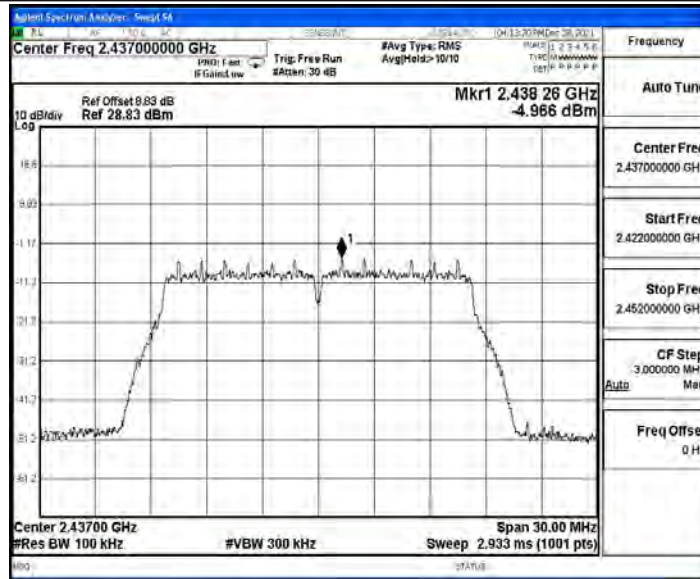
11G_Ant1_2412_30~1000



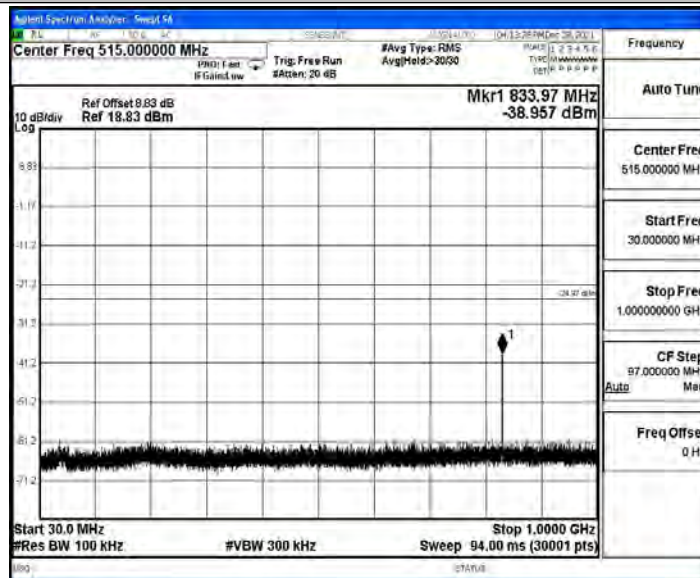
11G_Ant1_2412_1000~26500



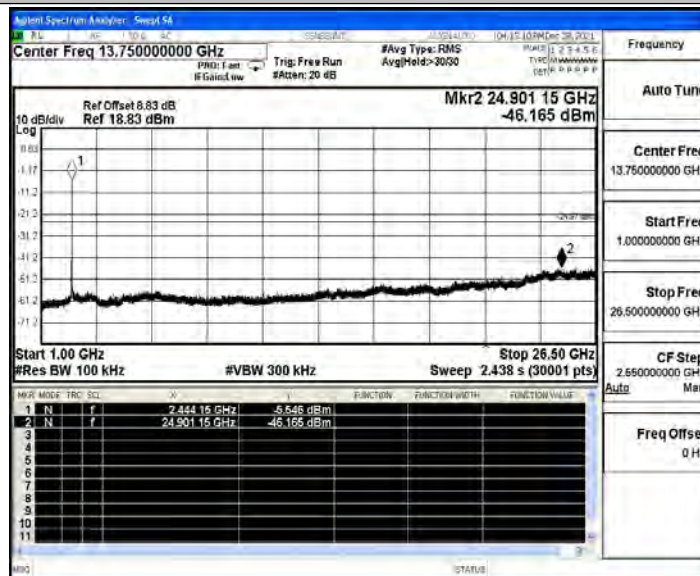
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000

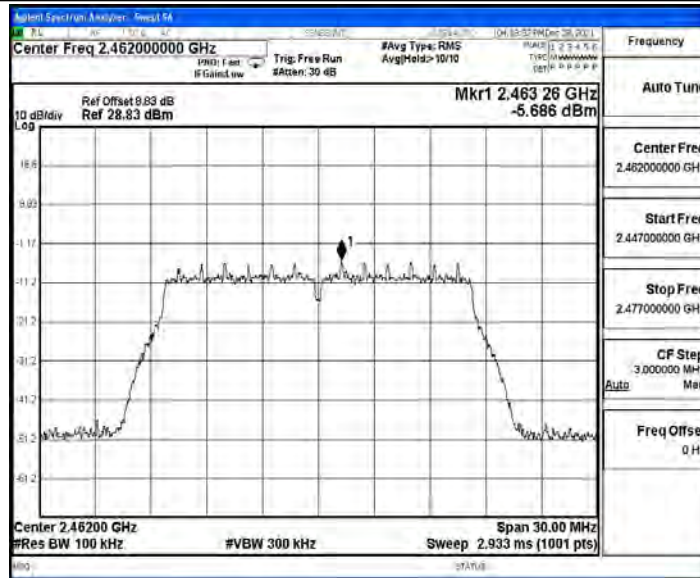


11G_Ant1_2437_1000~26500

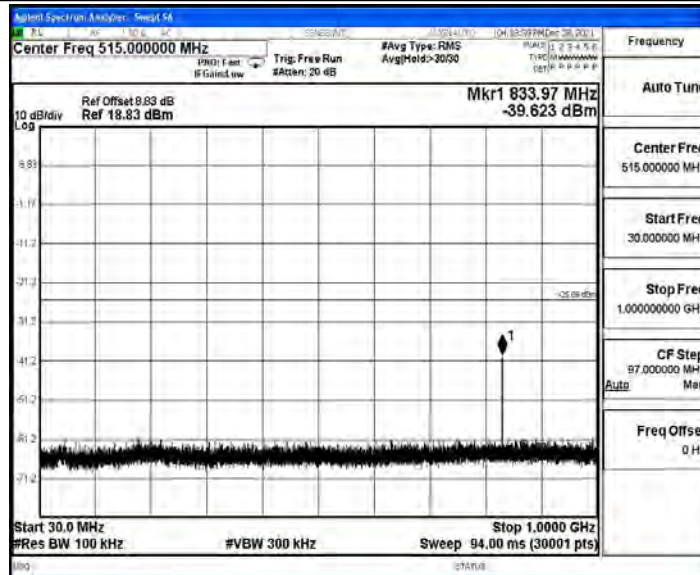




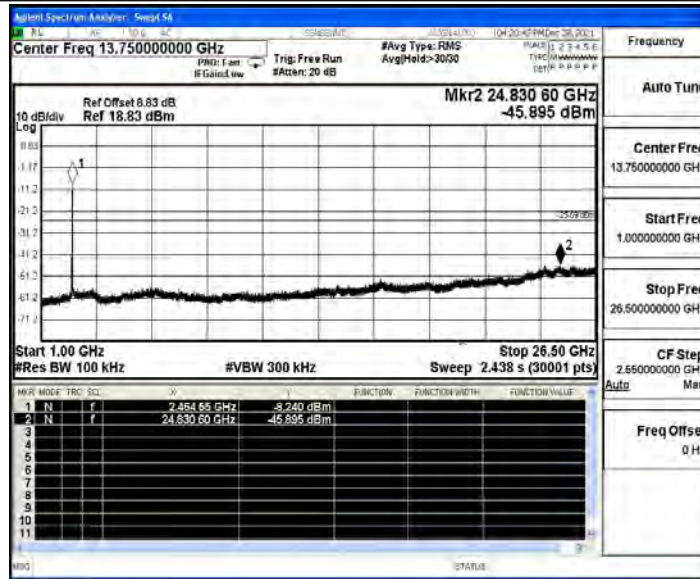
11G_Ant1_2462_0~Reference



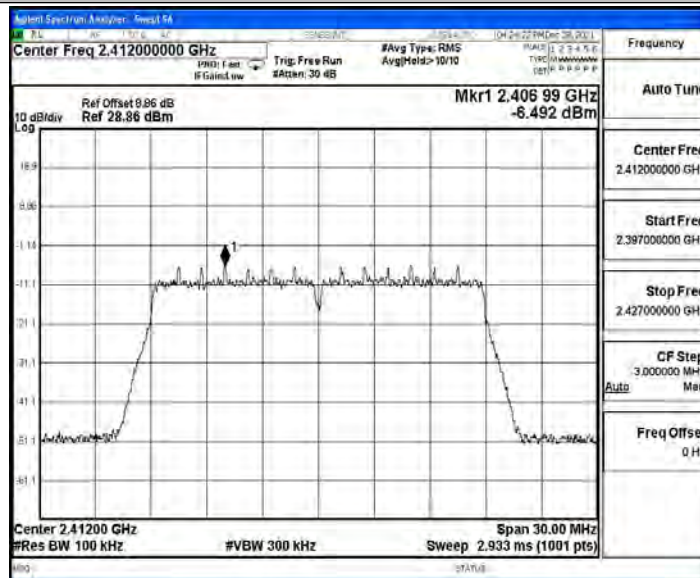
11G_Ant1_2462_30~1000



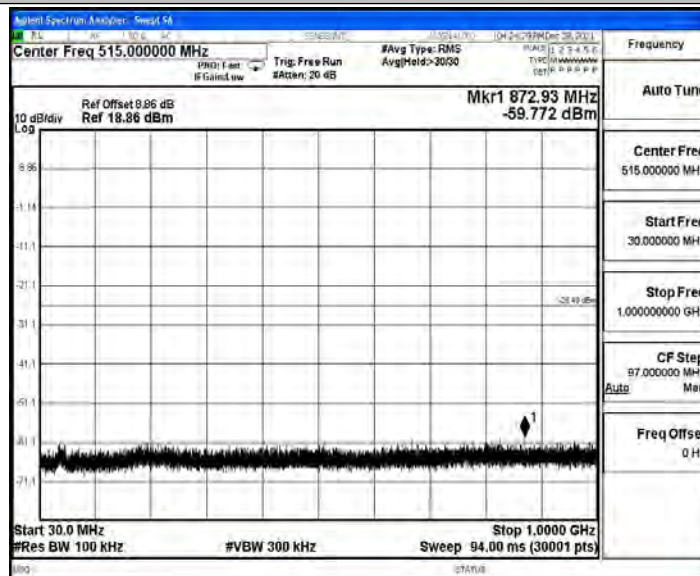
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

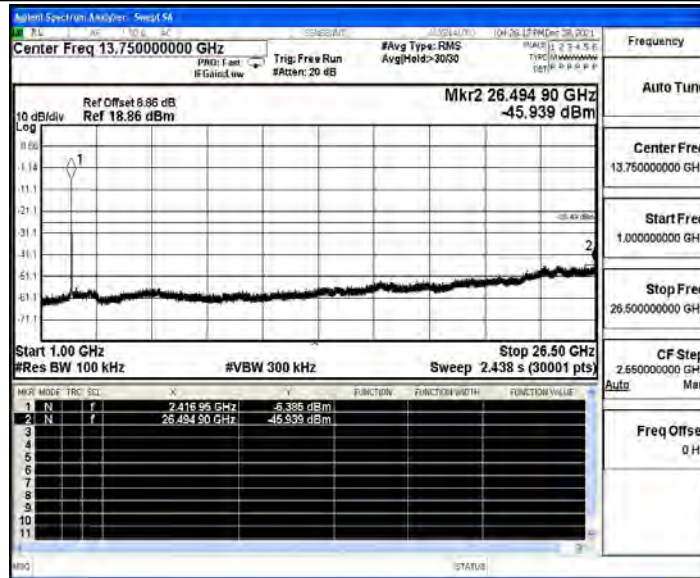


11N20SISO_Ant1_2412_30~1000

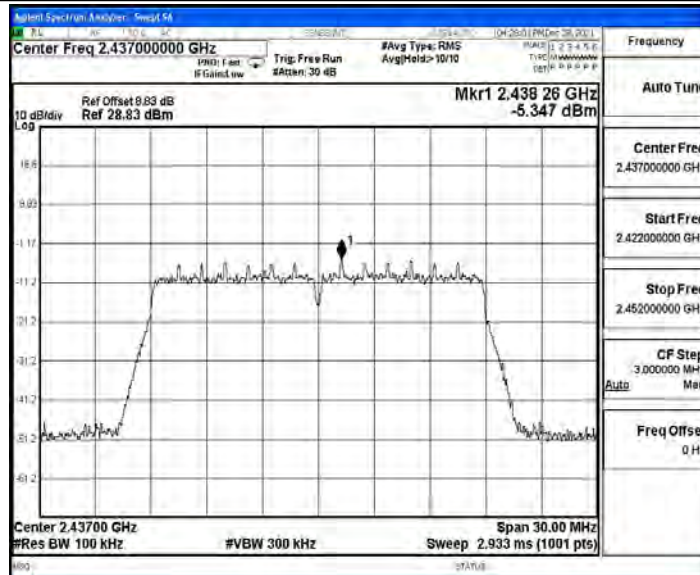




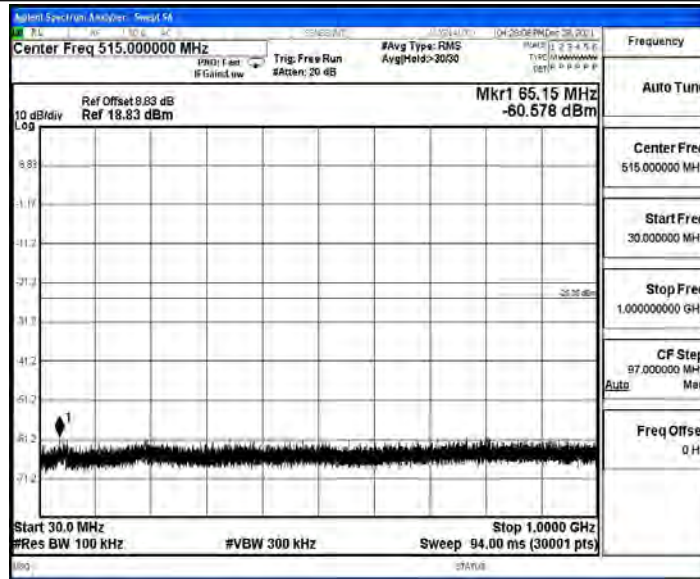
11N20SISO_Ant1_2412_1000~26500



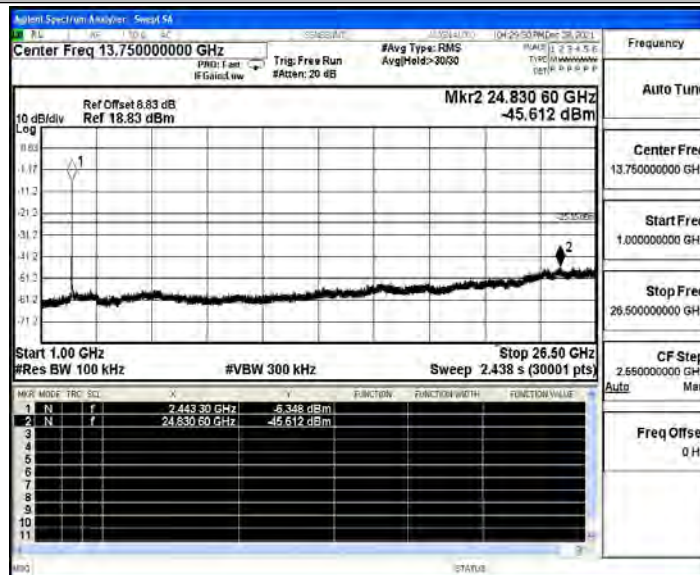
11N20SISO_Ant1_2437_0~Reference



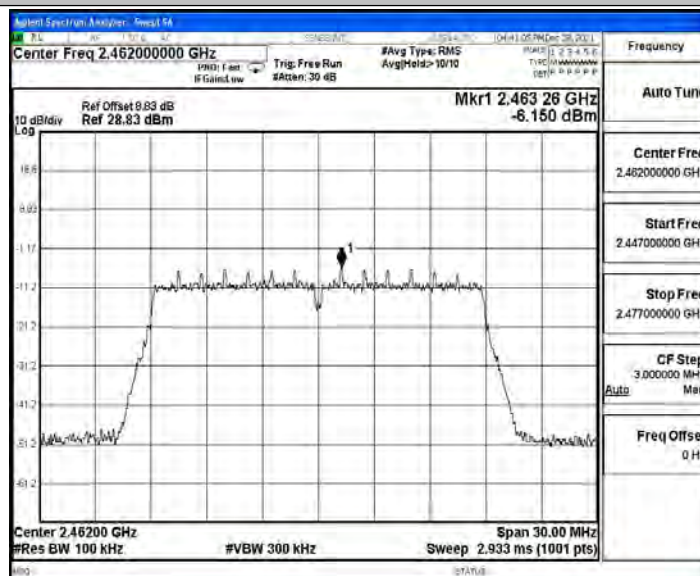
11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500

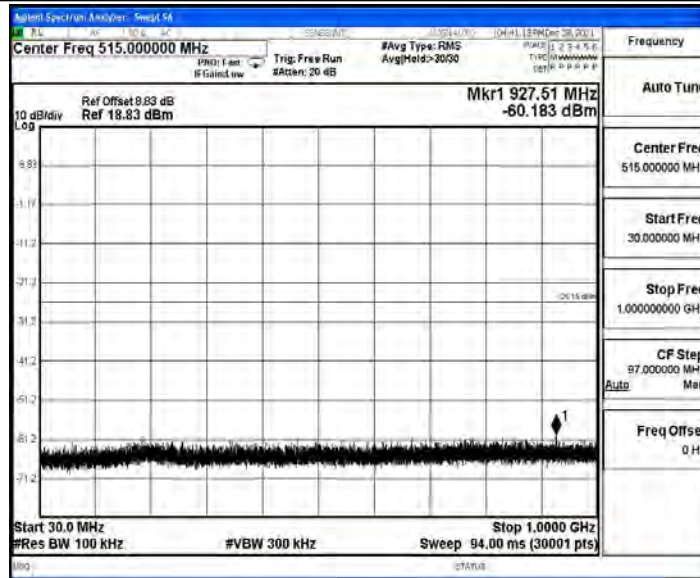


11N20SISO_Ant1_2462_0~Reference

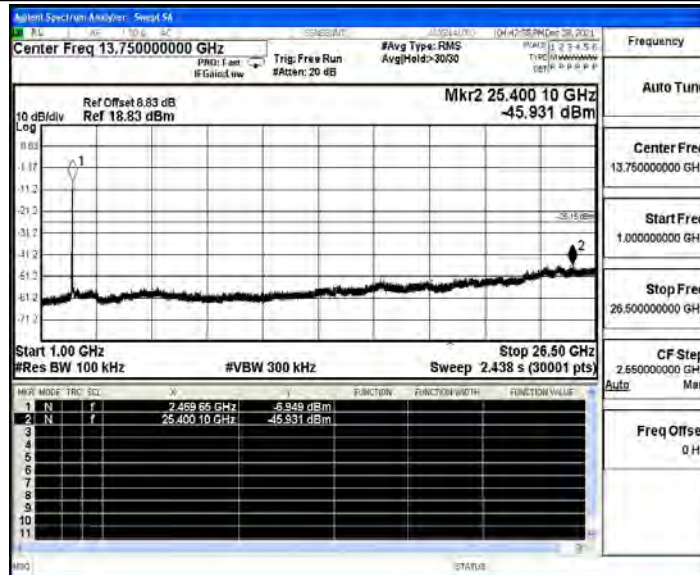




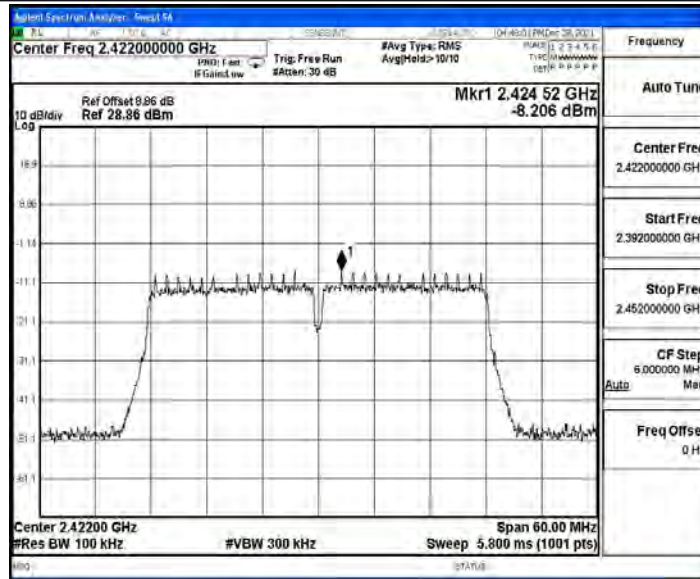
11N20SISO_Ant1_2462_30~1000



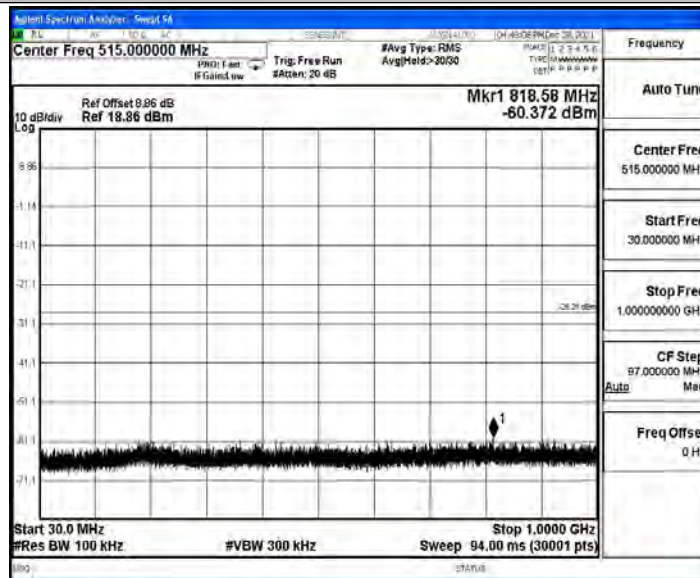
11N20SISO_Ant1_2462_1000~26500



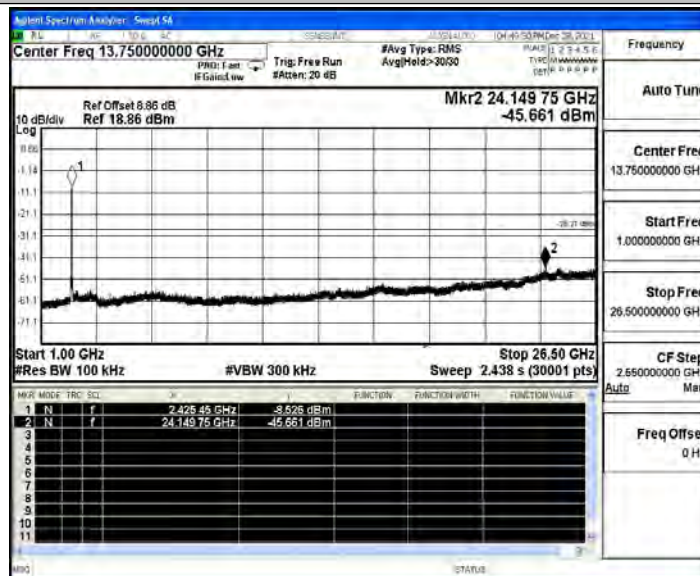
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000

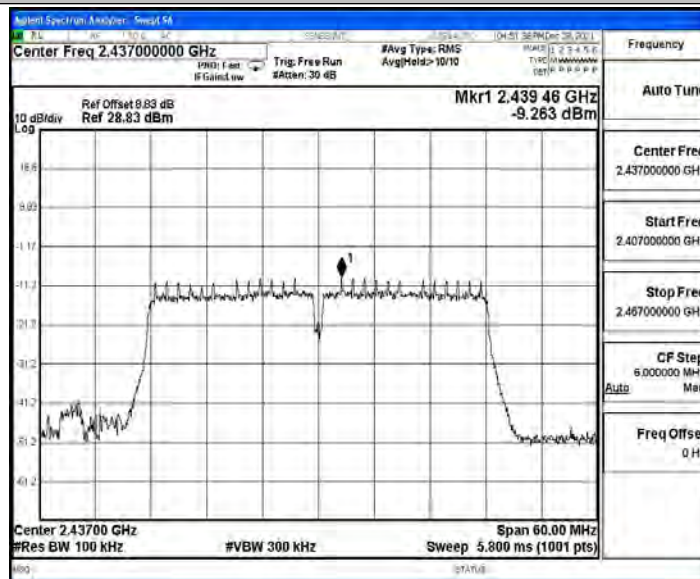


11N40SISO_Ant1_2422_1000~26500

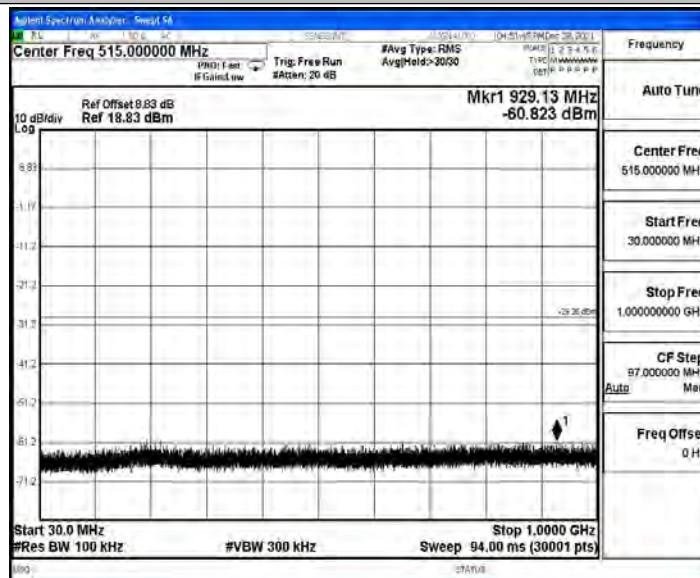




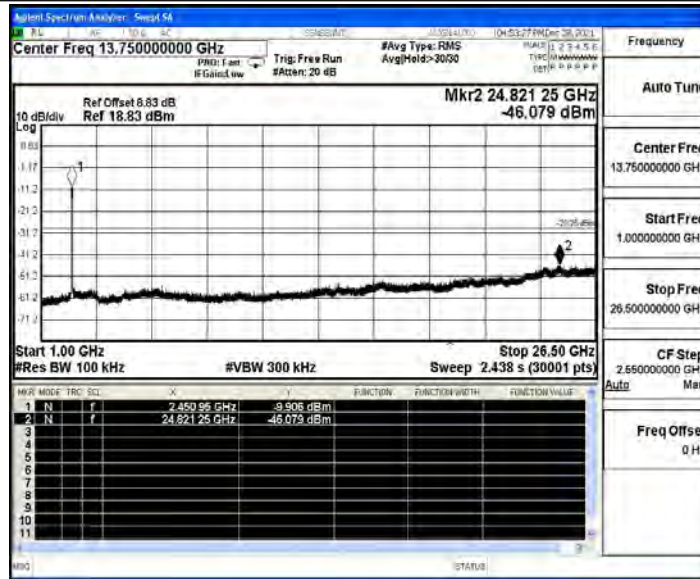
11N40SISO_Ant1_2437_0~Reference



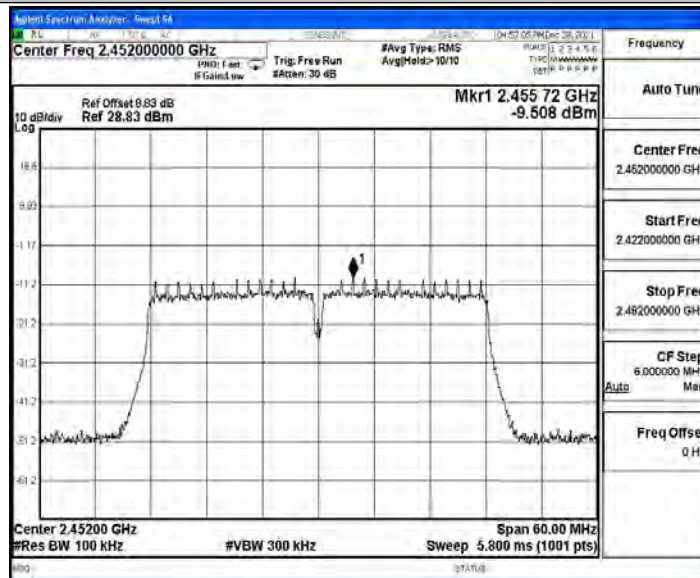
11N40SISO_Ant1_2437_30~1000



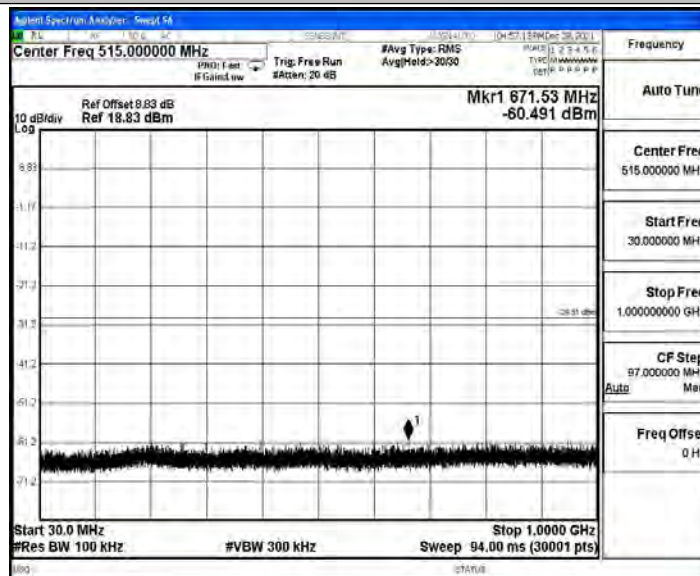
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference

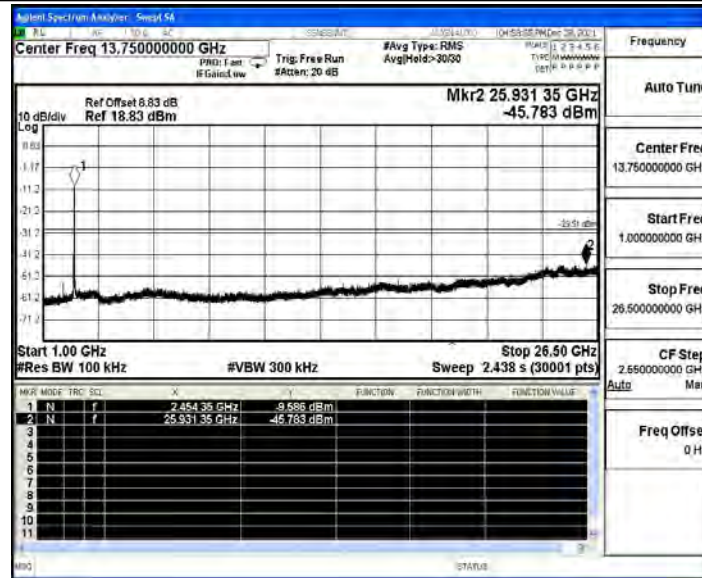


11N40SISO_Ant1_2452_30~1000





11N40SISO_Ant1_2452_1000~26500





C.6 Duty Cycle

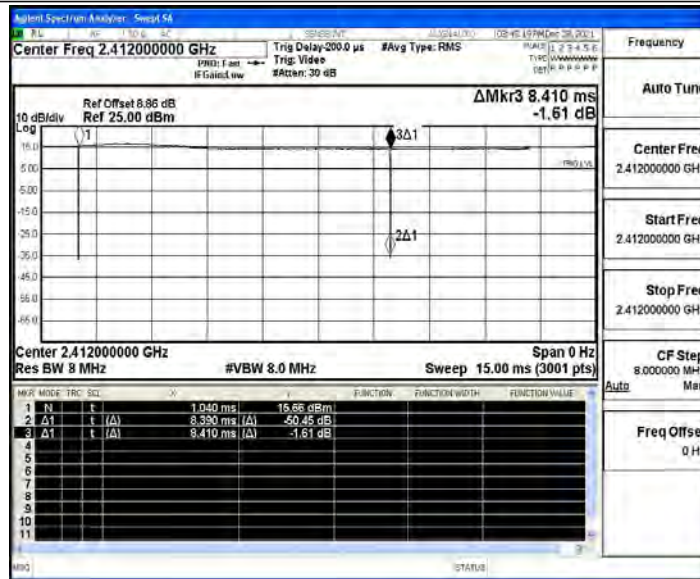
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.39	8.41	99.76	---	PASS
		2437	8.38	8.41	99.64	---	PASS
		2462	8.38	8.41	99.64	---	PASS
11G	Ant1	2412	1.39	1.43	97.20	---	PASS
		2437	1.40	1.43	97.90	---	PASS
		2462	1.39	1.42	97.89	---	PASS
11N20SISO	Ant1	2412	1.30	1.34	97.01	---	PASS
		2437	1.30	1.33	97.74	---	PASS
		2462	1.30	1.34	97.01	---	PASS
11N40SISO	Ant1	2422	0.64	0.68	94.12	---	PASS
		2437	0.64	0.68	94.12	---	PASS
		2452	0.64	0.68	94.12	---	PASS

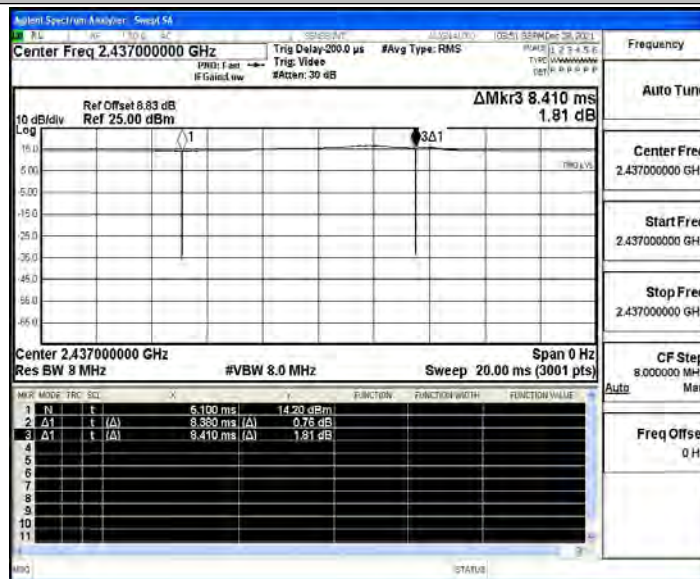


Test Graphs

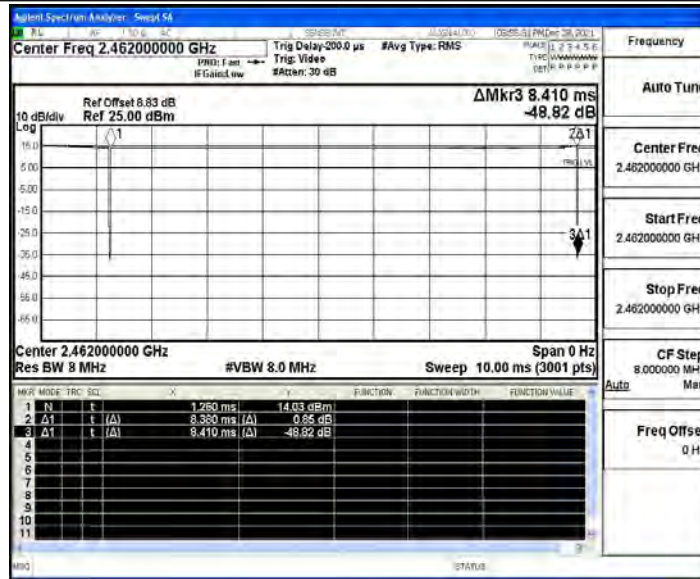
11B_Ant1_2412



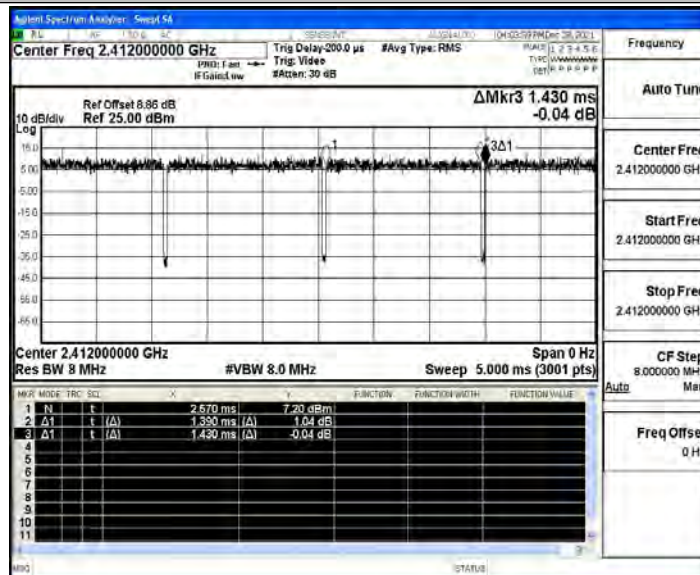
11B_Ant1_2437



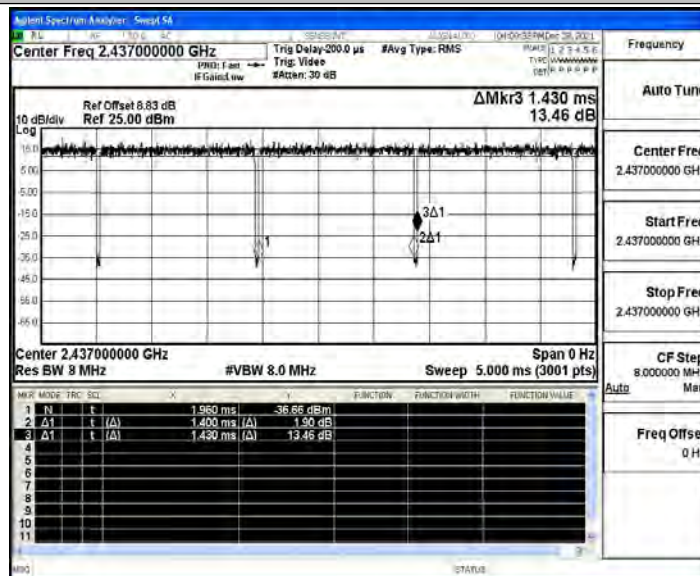
11B_Ant1_2462



11G_Ant1_2412

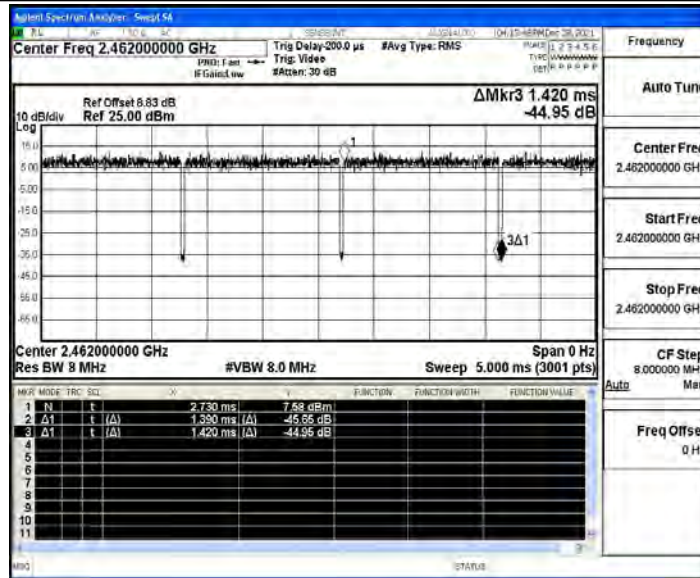


11G_Ant1_2437

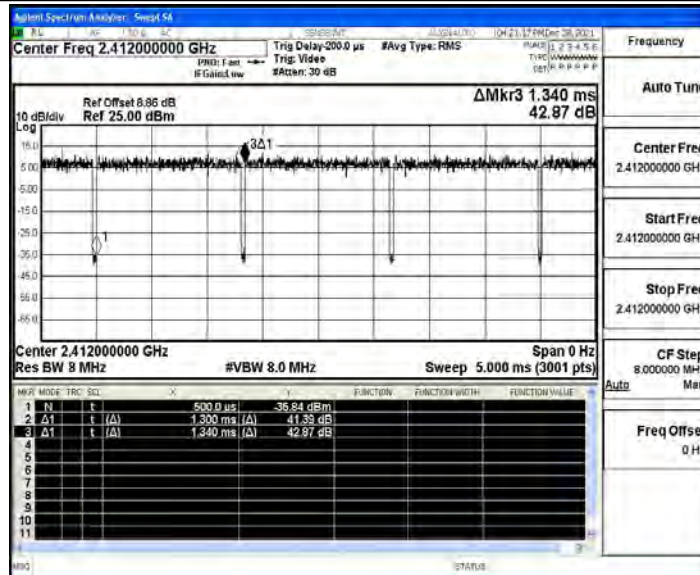




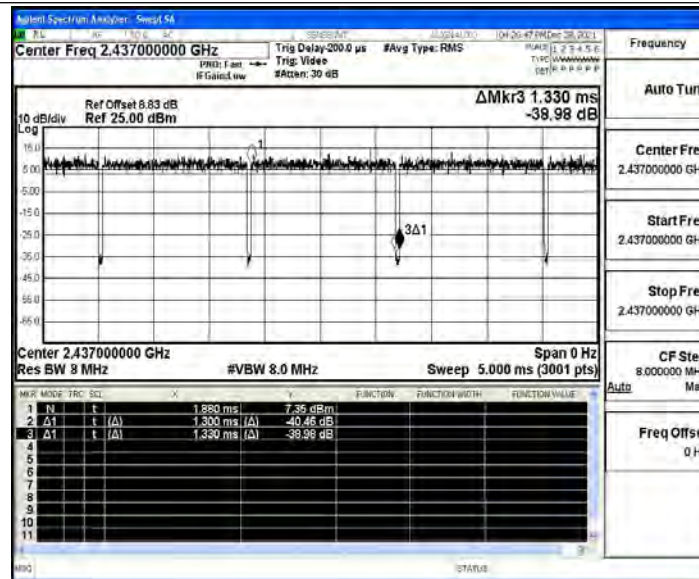
11G_Ant1_2462



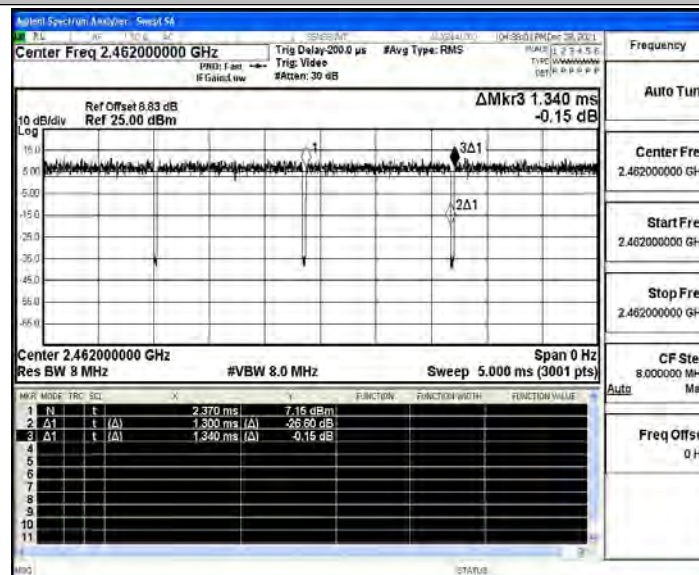
11N20SISO_Ant1_2412



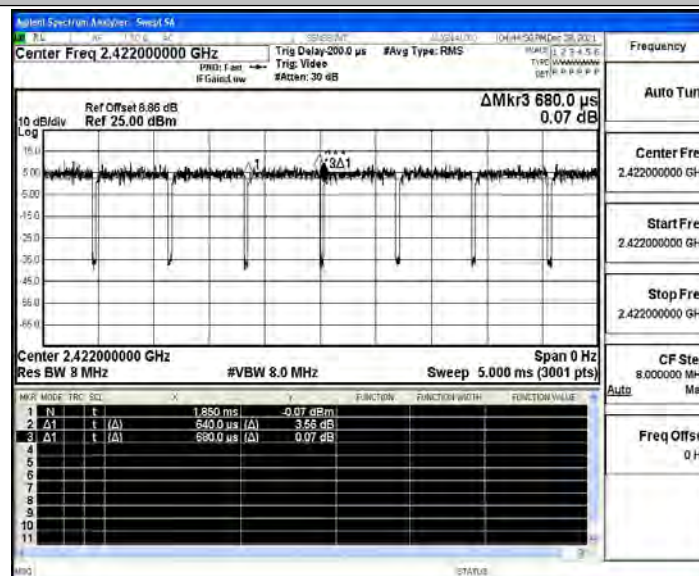
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

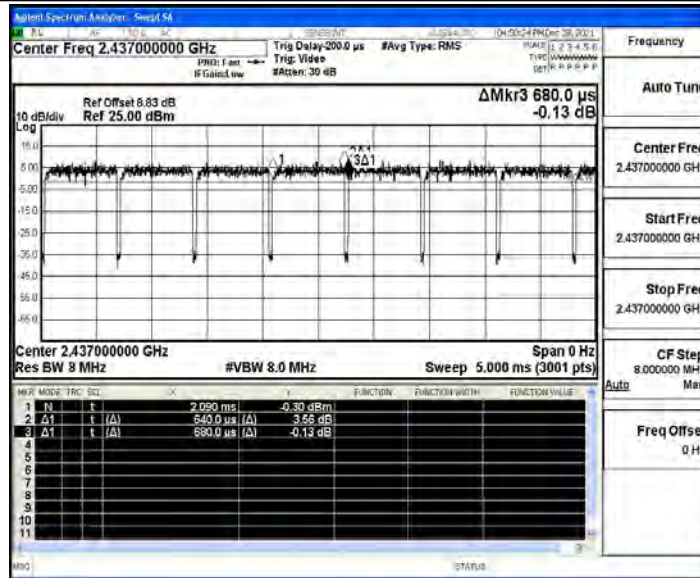


11N40SISO_Ant1_2422

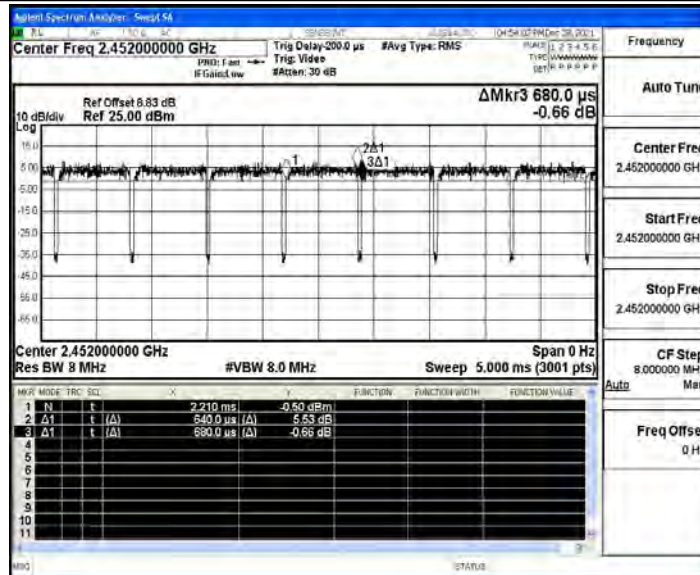




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





C.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	-48.72	≤-41.20	46.48	≤54	PASS
				AV	2388.530	-47.86	≤-41.20	47.34	≤54	PASS
				AV	2390.000	-48.18	≤-41.20	47.02	≤54	PASS
				Peak	2310.000	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	2357.070	-35.69	≤-21.20	59.51	≤74	PASS
				Peak	2390.000	-37.27	≤-21.20	57.93	≤74	PASS
		High	2462	AV	2483.500	-47.67	≤-41.20	47.53	≤54	PASS
				AV	2499.840	-47.48	≤-41.20	47.72	≤54	PASS
				AV	2500.000	-47.48	≤-41.20	47.72	≤54	PASS
				Peak	2483.500	-37.12	≤-21.20	58.08	≤74	PASS
				Peak	2491.370	-35.61	≤-21.20	59.59	≤74	PASS
				Peak	2500.000	-36.8	≤-21.20	58.40	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.27	≤-41.20	46.93	≤54	PASS
				AV	2389.570	-47.42	≤-41.20	47.78	≤54	PASS
				AV	2390.000	-47.46	≤-41.20	47.74	≤54	PASS
				Peak	2310.000	-36.52	≤-21.20	58.68	≤74	PASS
				Peak	2333.280	-35.85	≤-21.20	59.35	≤74	PASS
				Peak	2390.000	-36.69	≤-21.20	58.51	≤74	PASS
		High	2462	AV	2483.500	-46.98	≤-41.20	48.22	≤54	PASS
				AV	2498.300	-46.95	≤-41.20	48.25	≤54	PASS
				AV	2500.000	-47.13	≤-41.20	48.07	≤54	PASS
				Peak	2483.500	-37.11	≤-21.20	58.09	≤74	PASS
				Peak	2497.310	-35.42	≤-21.20	59.78	≤74	PASS
				Peak	2500.000	-36.75	≤-21.20	58.45	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-48.34	≤-41.20	46.86	≤54	PASS
				AV	2389.570	-47.25	≤-41.20	47.95	≤54	PASS
				AV	2390.000	-47.25	≤-41.20	47.95	≤54	PASS
				Peak	2310.000	-37.7	≤-21.20	57.50	≤74	PASS
				Peak	2379.560	-35.14	≤-21.20	60.06	≤74	PASS
				Peak	2390.000	-37.31	≤-21.20	57.89	≤74	PASS
		High	2462	AV	2483.500	-47.05	≤-41.20	48.15	≤54	PASS
				AV	2498.520	-46.8	≤-41.20	48.40	≤54	PASS
				AV	2500.000	-47.01	≤-41.20	48.19	≤54	PASS
				Peak	2483.500	-36.67	≤-21.20	58.53	≤74	PASS
				Peak	2485.210	-35.43	≤-21.20	59.77	≤74	PASS
				Peak	2500.000	-36.66	≤-21.20	58.54	≤74	PASS
11N40SI	Ant1	Low	2422	AV	2310.000	-48	≤-41.20	47.20	≤54	PASS



SO				AV	2389.440	-46.24	≤-41.20	48.96	≤54	PASS
				AV	2390.000	-46.59	≤-41.20	48.61	≤54	PASS
				Peak	2310.000	-37.26	≤-21.20	57.94	≤74	PASS
				Peak	2340.560	-32.2	≤-21.20	63.00	≤74	PASS
				Peak	2390.000	-33.01	≤-21.20	62.19	≤74	PASS
		High	2452	AV	2483.500	-46.4	≤-41.20	48.80	≤54	PASS
				AV	2484.000	-46.21	≤-41.20	48.99	≤54	PASS
				AV	2500.000	-46.73	≤-41.20	48.47	≤54	PASS
				Peak	2483.500	-34.49	≤-21.20	60.71	≤74	PASS
				Peak	2490.270	-32.47	≤-21.20	62.73	≤74	PASS
				Peak	2500.000	-36.73	≤-21.20	58.47	≤74	PASS

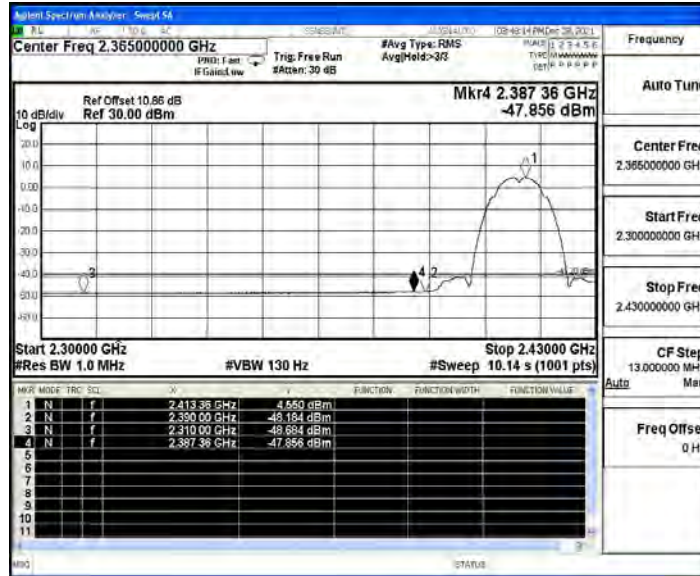
Note:

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.

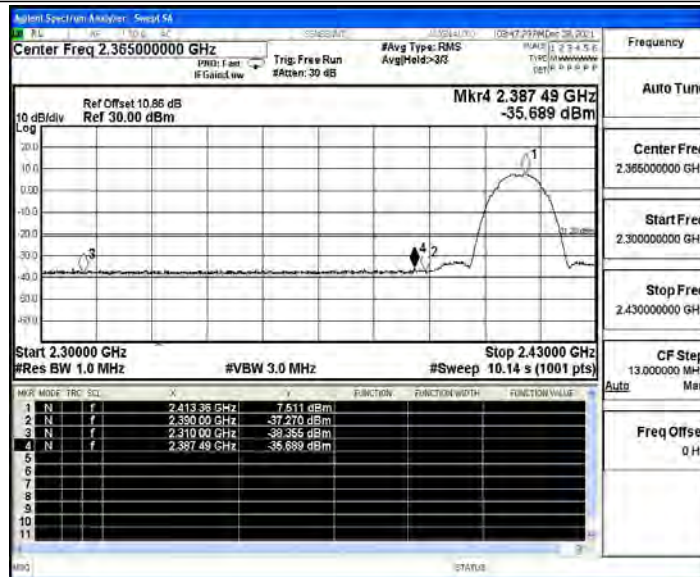


Test Graphs

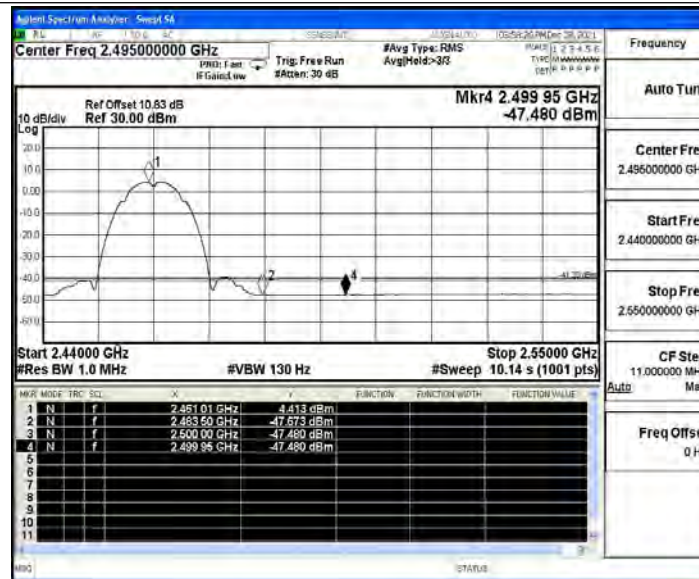
11B_Ant1_Low_2412_AV



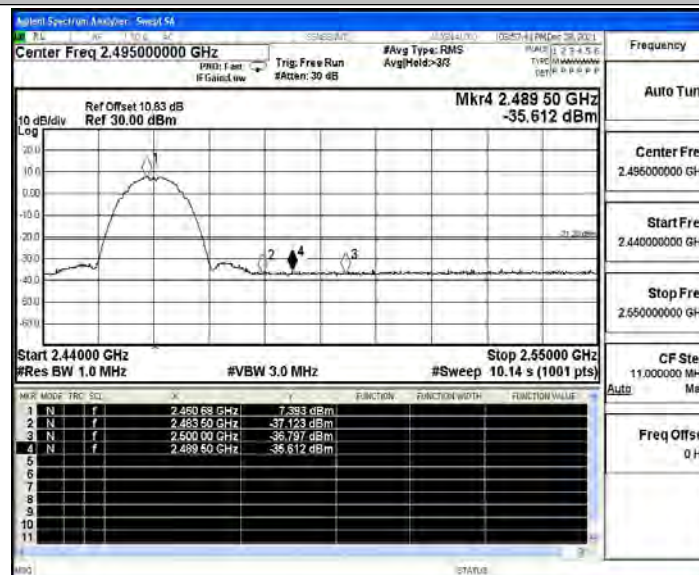
11B_Ant1_Low_2412_Peak



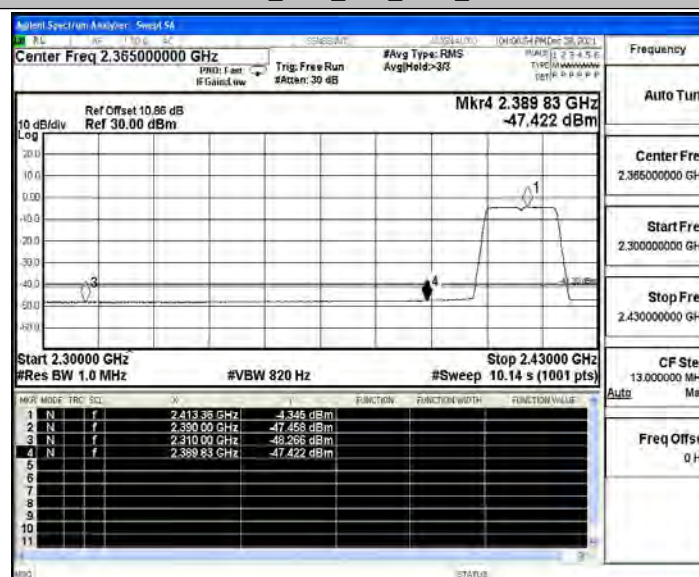
11B_Ant1_High_2462_AV



11B_Ant1_High_2462_Peak

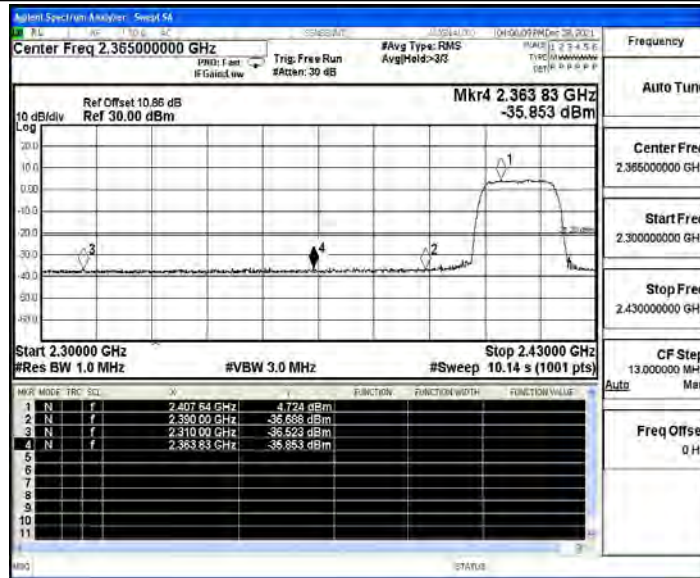


11G_Ant1_Low_2412_AV

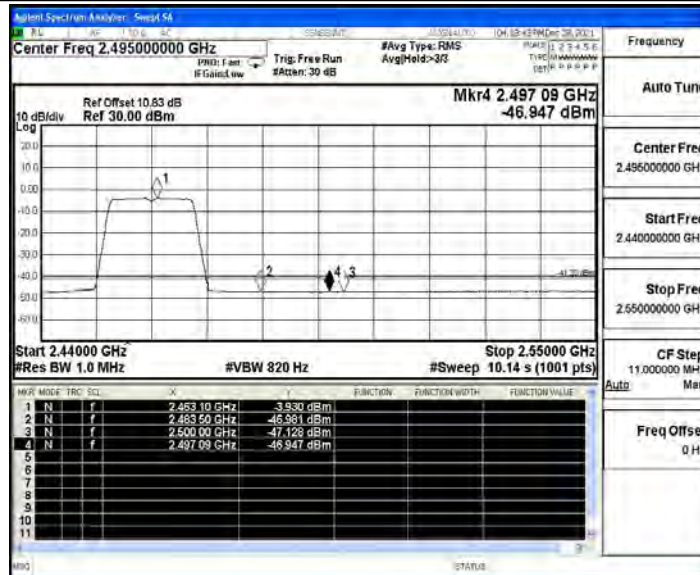




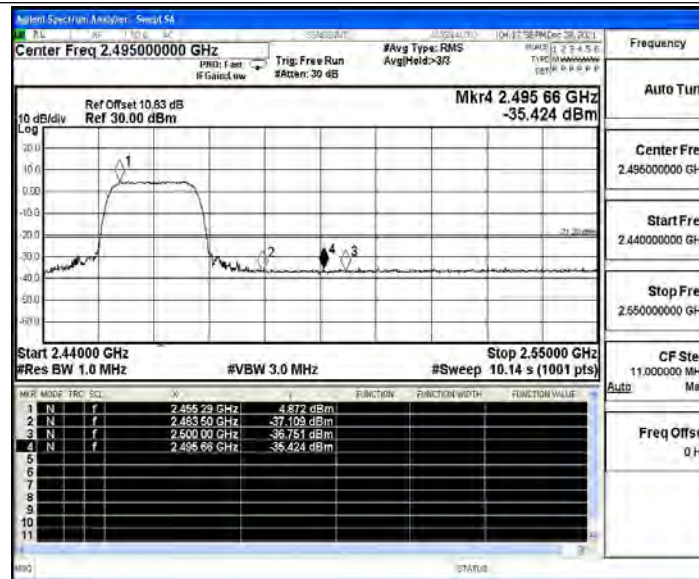
11G_Ant1_Low_2412_Peak



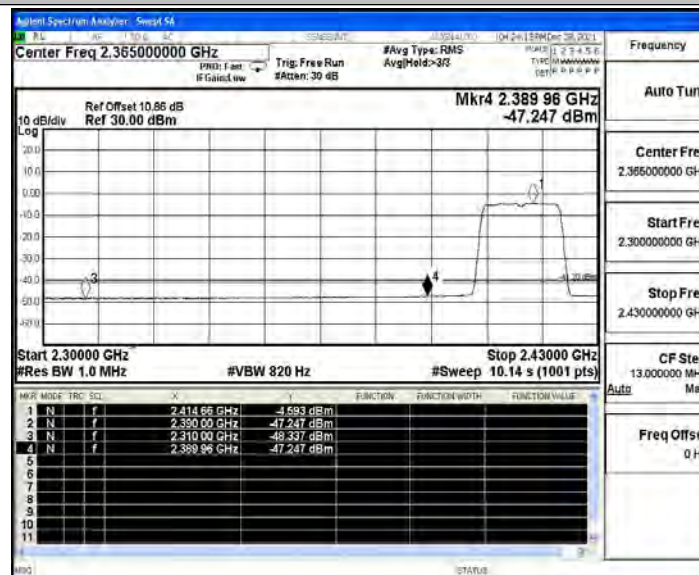
11G_Ant1_High_2462_AV



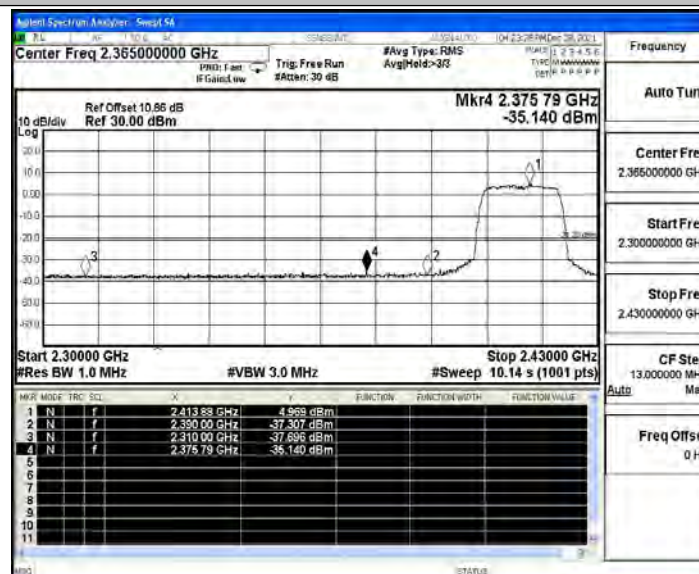
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

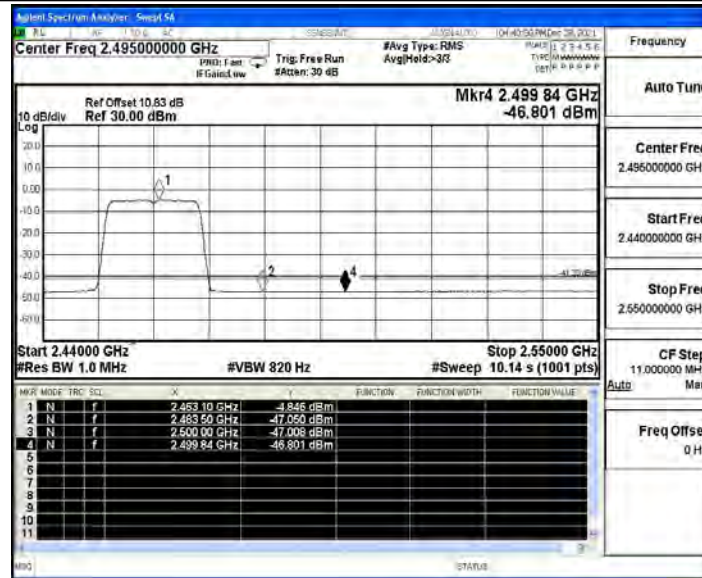


11N20SISO_Ant1_Low_2412_Peak

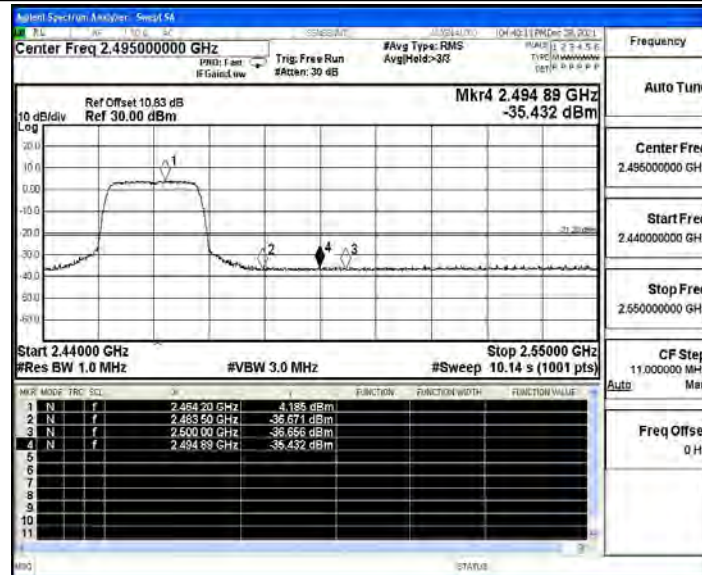




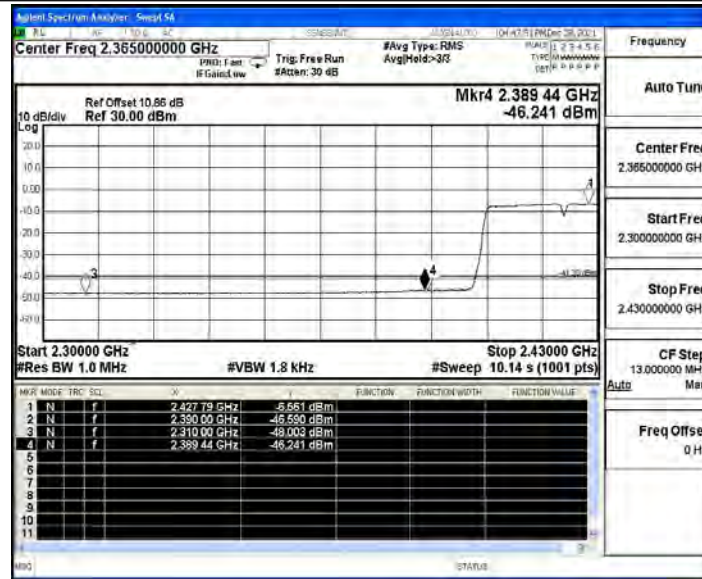
11N20SISO_Ant1_High_2462_AV



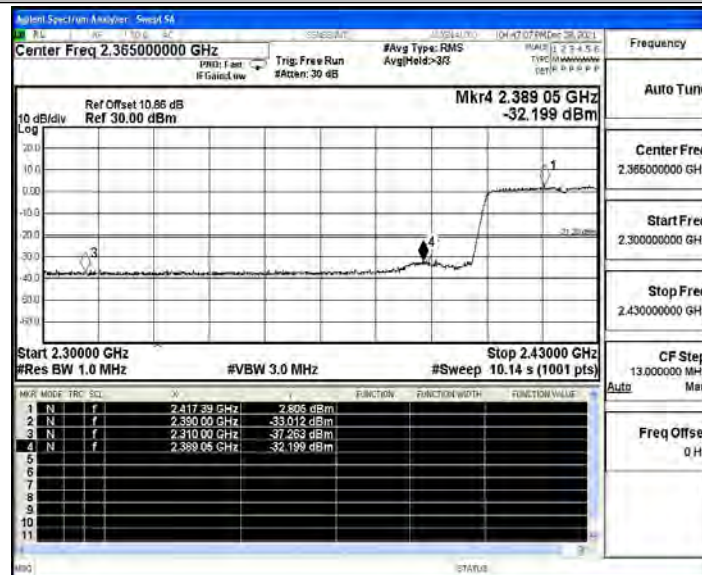
11N20SISO_Ant1_High_2462_Peak



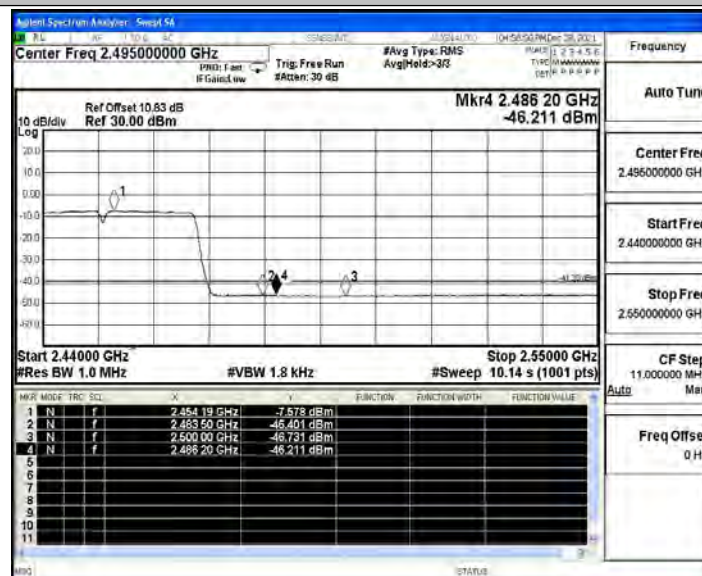
11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV





11N40SISO_Ant1_High_2452_Peak

