



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Mobile operating terminal

Test Model: H6

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan



B.1 6dB Bandwidth

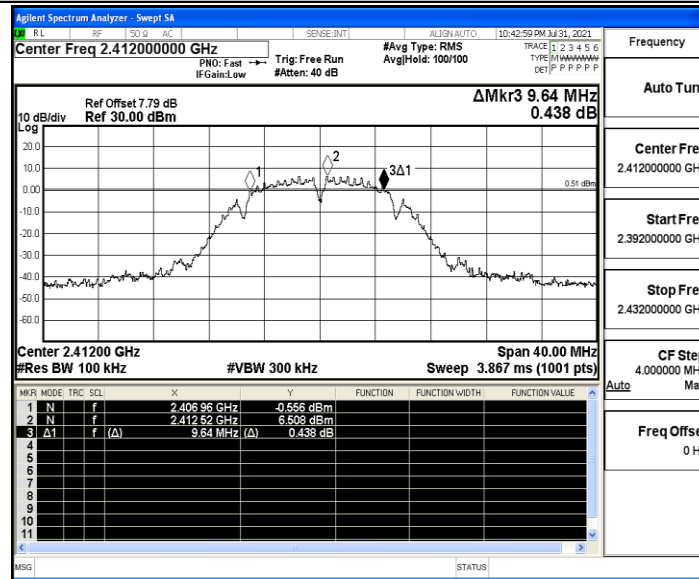
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.640	2406.960	2416.600	0.5	PASS
		2437	9.160	2432.440	2441.600	0.5	PASS
		2462	9.080	2456.960	2466.040	0.5	PASS
11G	Ant1	2412	15.480	2404.680	2420.160	0.5	PASS
		2437	14.920	2430.280	2445.200	0.5	PASS
		2462	15.800	2453.800	2469.600	0.5	PASS
11N20SISO	Ant1	2412	16.920	2403.480	2420.400	0.5	PASS
		2437	16.760	2429.080	2445.840	0.5	PASS
		2462	17.240	2453.160	2470.400	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.400	2439.840	0.5	PASS
		2437	35.200	2419.400	2454.600	0.5	PASS
		2452	35.200	2434.400	2469.600	0.5	PASS

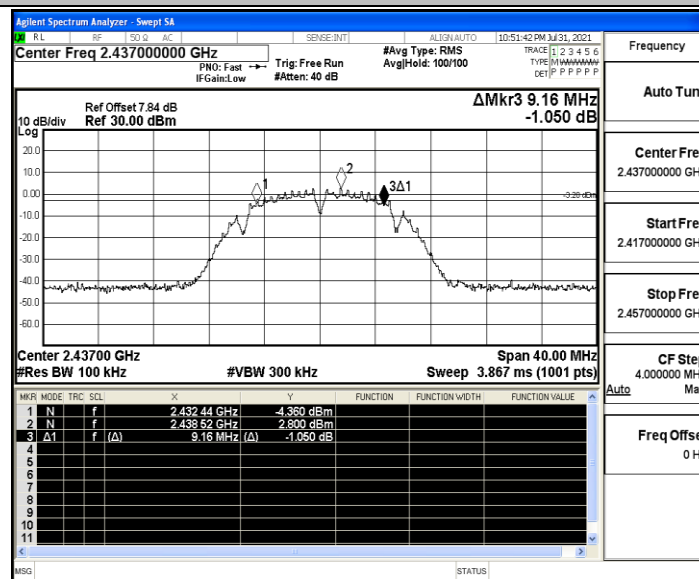


Test Graphs

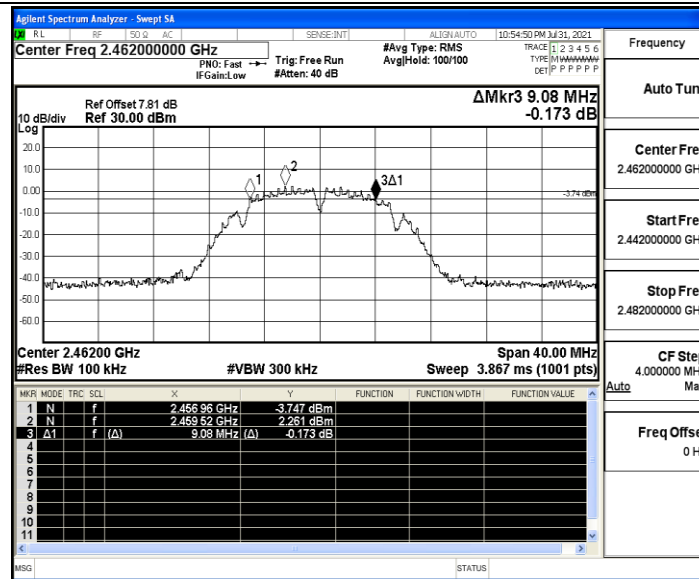
11B_Ant1_2412



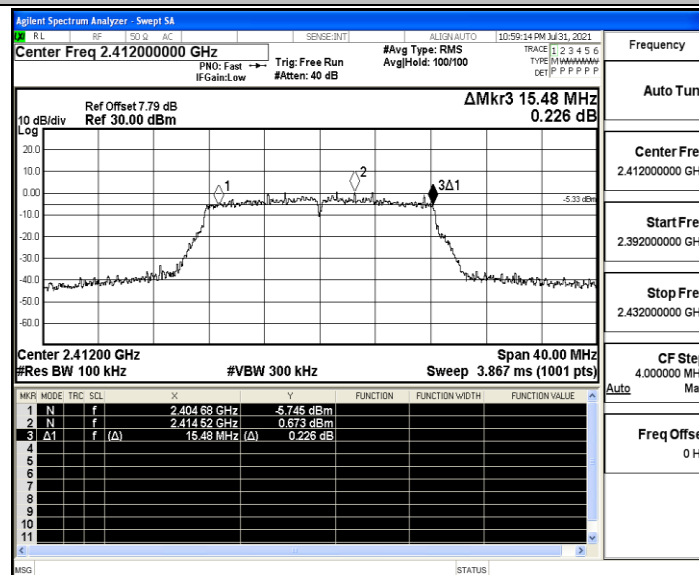
11B_Ant1_2437



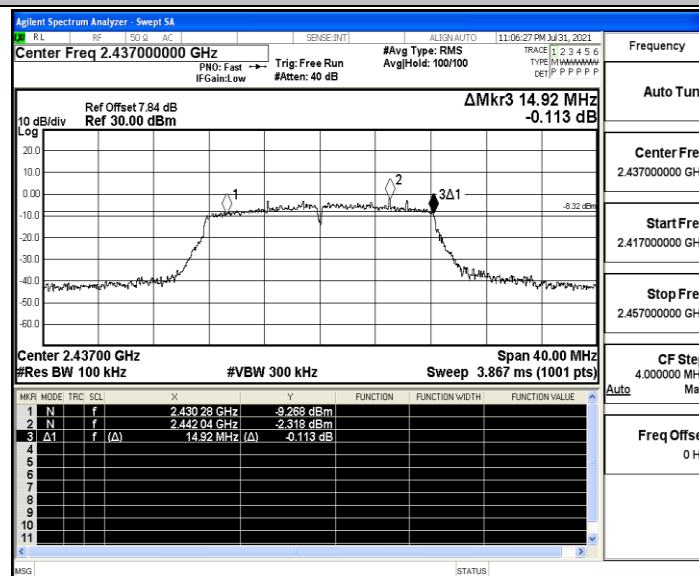
11B_Ant1_2462



11G_Ant1_2412

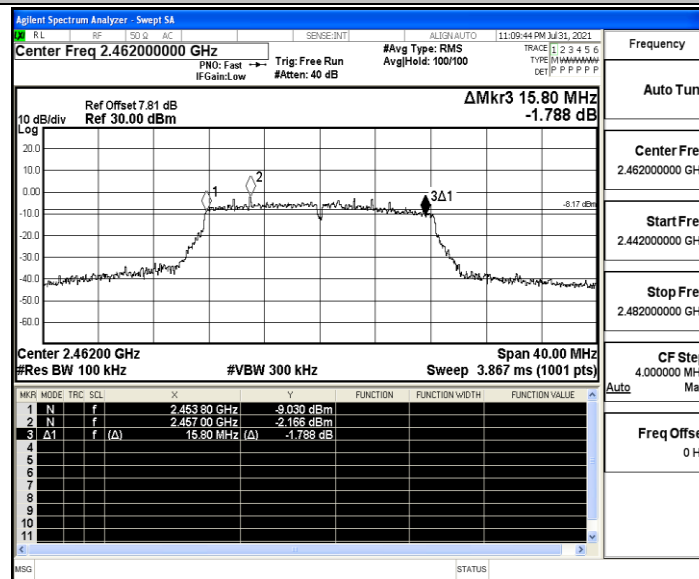


11G_Ant1_2437

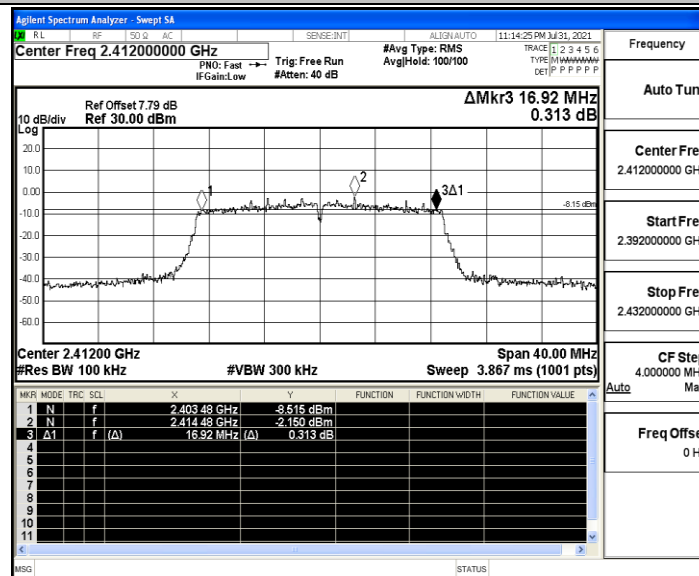




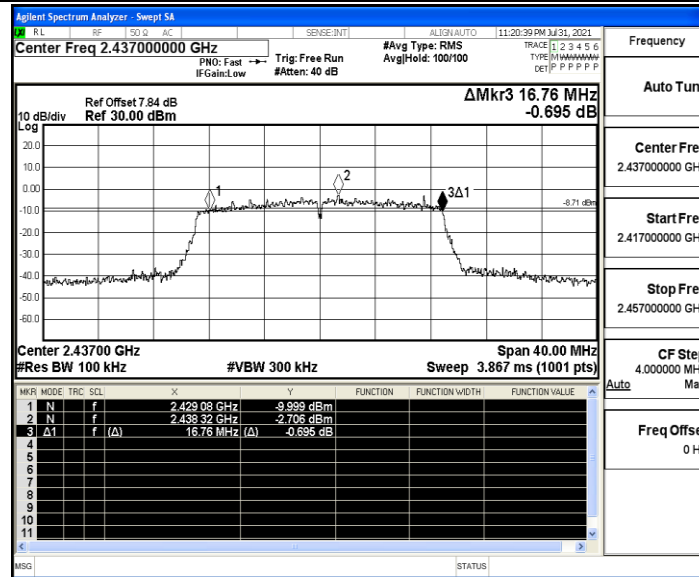
11G_Ant1_2462



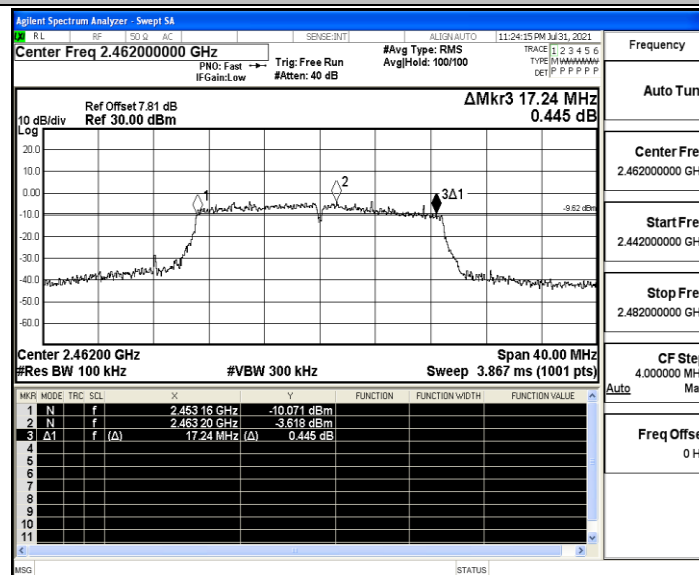
11N20SISO_Ant1_2412



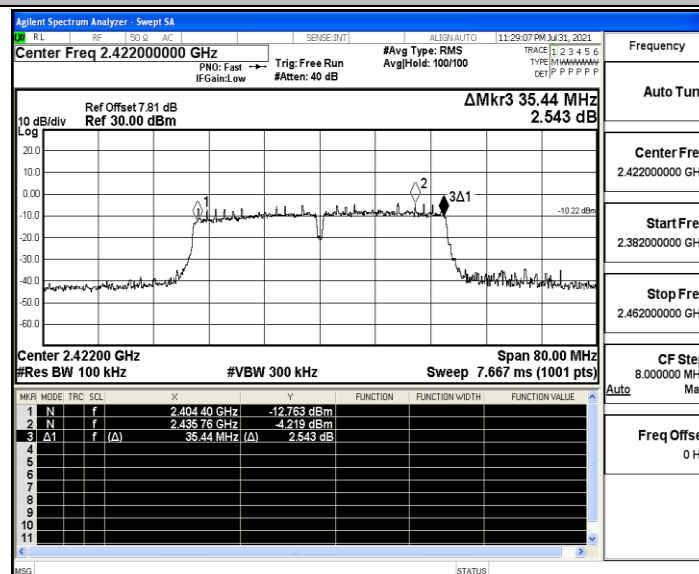
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

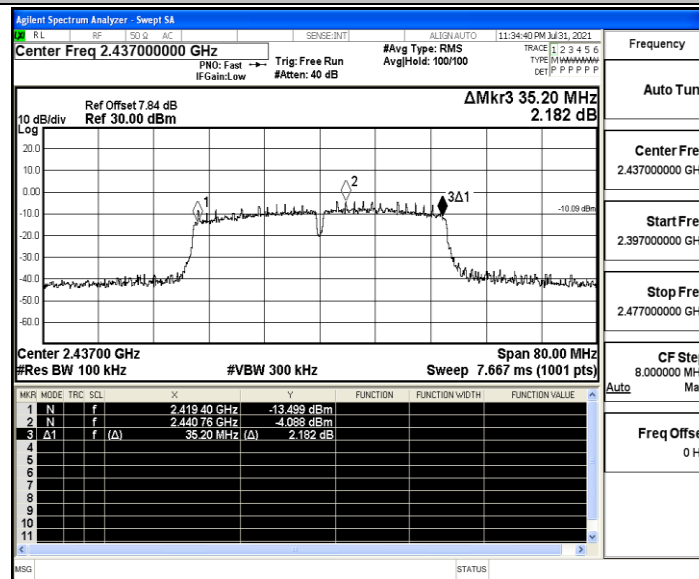


11N40SISO_Ant1_2422

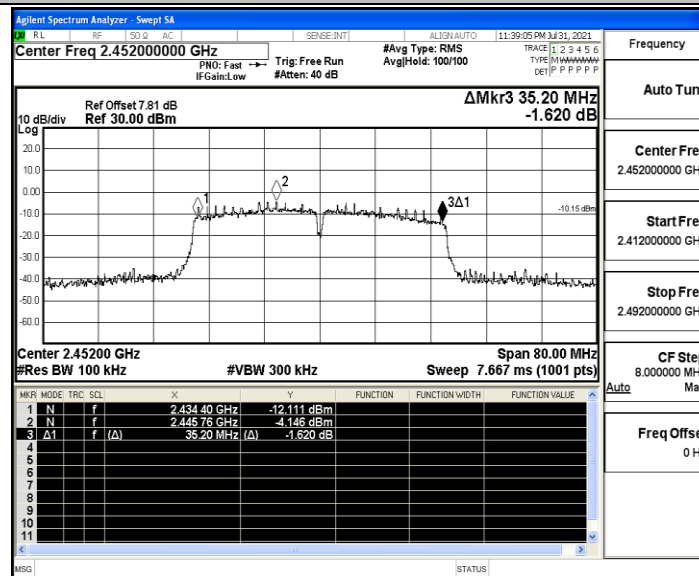




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	14.76	≤30	PASS
		2437	14.11	≤30	PASS
		2462	13.90	≤30	PASS
11G	Ant1	2412	15.96	≤30	PASS
		2437	15.96	≤30	PASS
		2462	15.79	≤30	PASS
11N20SISO	Ant1	2412	16.05	≤30	PASS
		2437	15.95	≤30	PASS
		2462	15.77	≤30	PASS
11N40SISO	Ant1	2422	16.43	≤30	PASS
		2437	16.16	≤30	PASS
		2452	16.22	≤30	PASS

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



B.3 Maximum power spectral density

Test Result

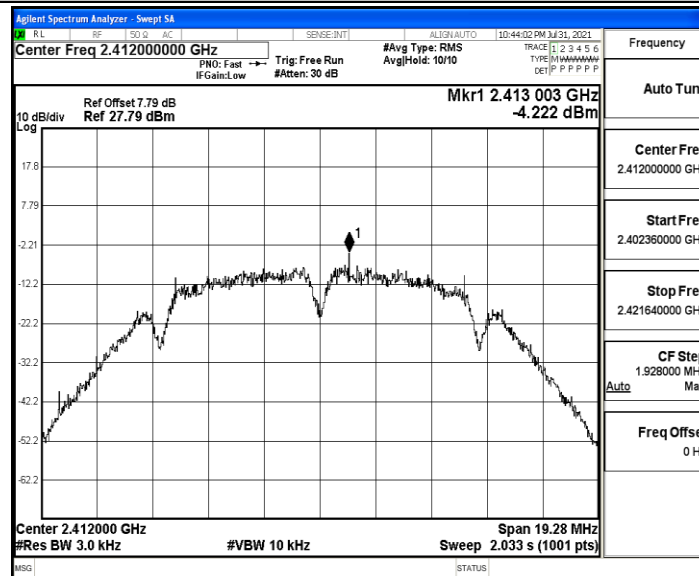
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.22	≤8	PASS
		2437	-11.74	≤8	PASS
		2462	-10.34	≤8	PASS
11G	Ant1	2412	-13.14	≤8	PASS
		2437	-14.03	≤8	PASS
		2462	-15.51	≤8	PASS
11N20SISO	Ant1	2412	-15.77	≤8	PASS
		2437	-13.88	≤8	PASS
		2462	-15.72	≤8	PASS
11N40SISO	Ant1	2422	-18.95	≤8	PASS
		2437	-17.58	≤8	PASS
		2452	-17.28	≤8	PASS

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

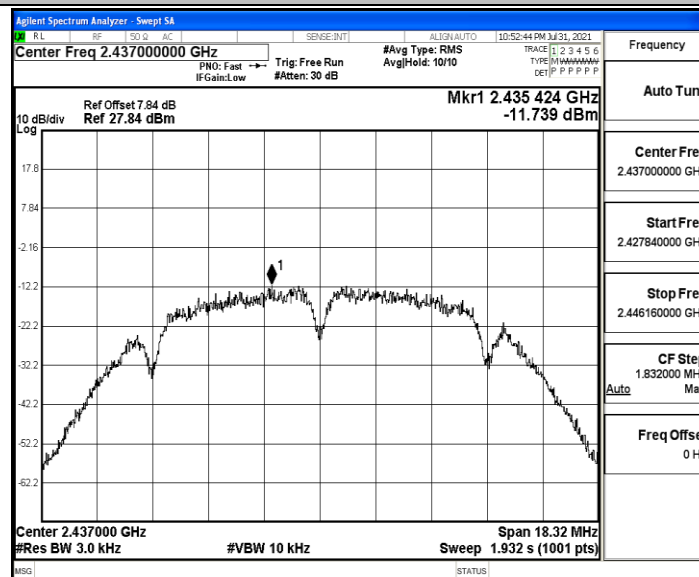


Test Graphs

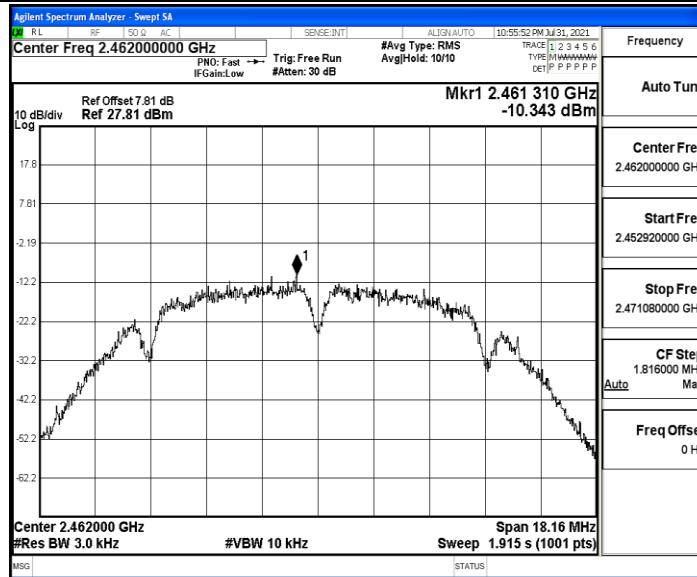
11B_Ant1_2412



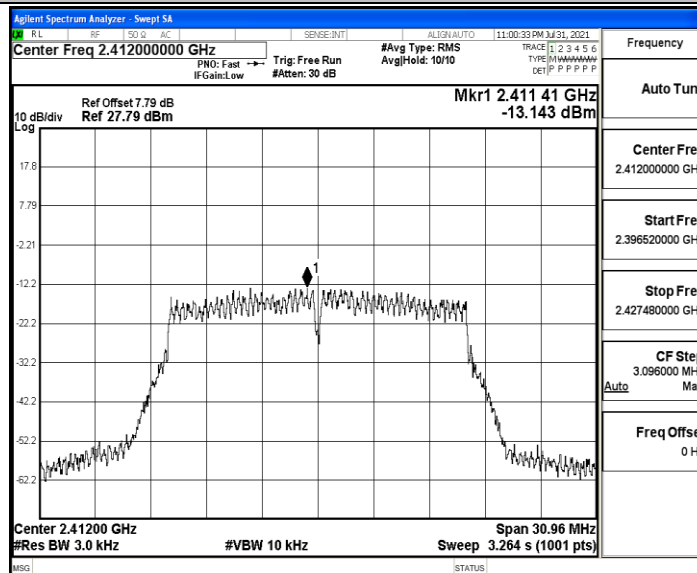
11B_Ant1_2437



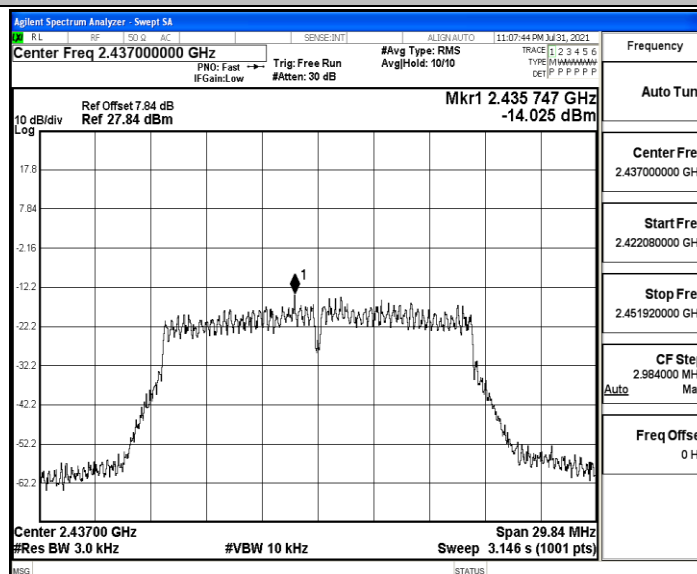
11B_Ant1_2462



11G_Ant1_2412

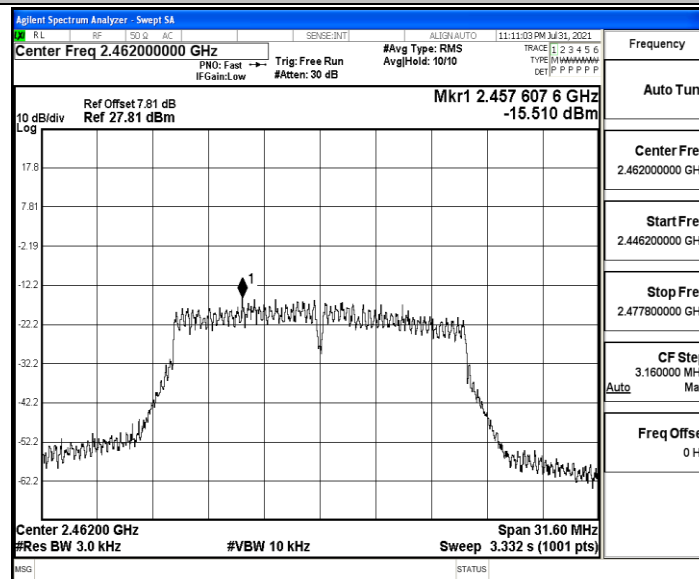


11G_Ant1_2437

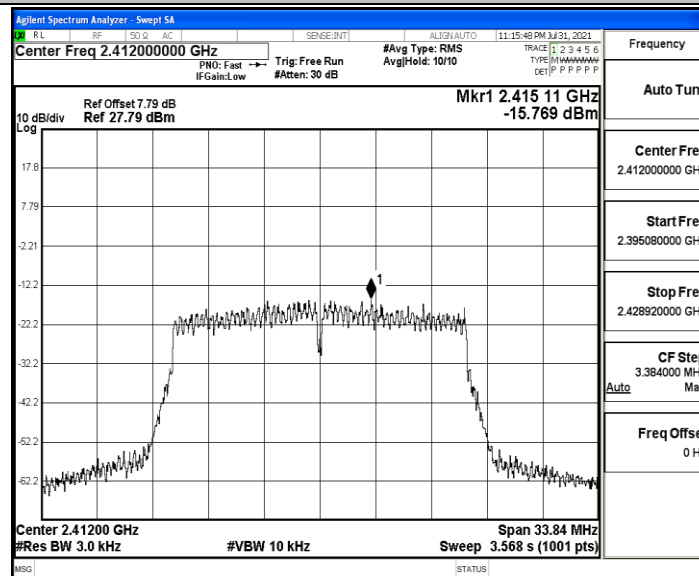




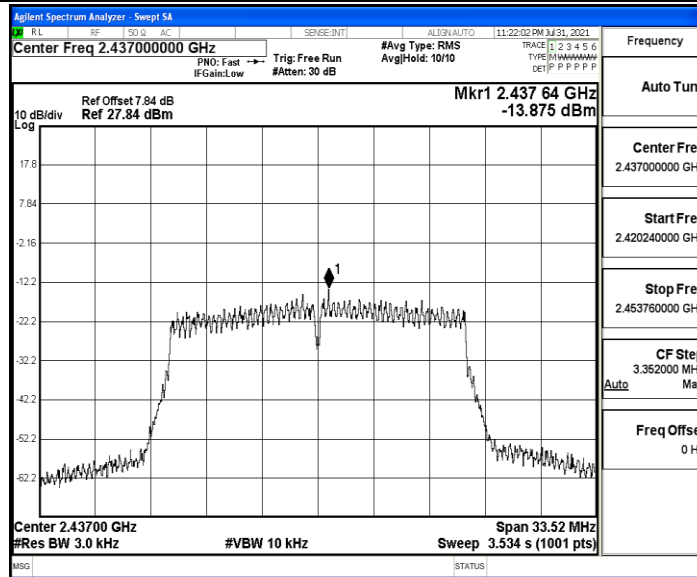
11G_Ant1_2462



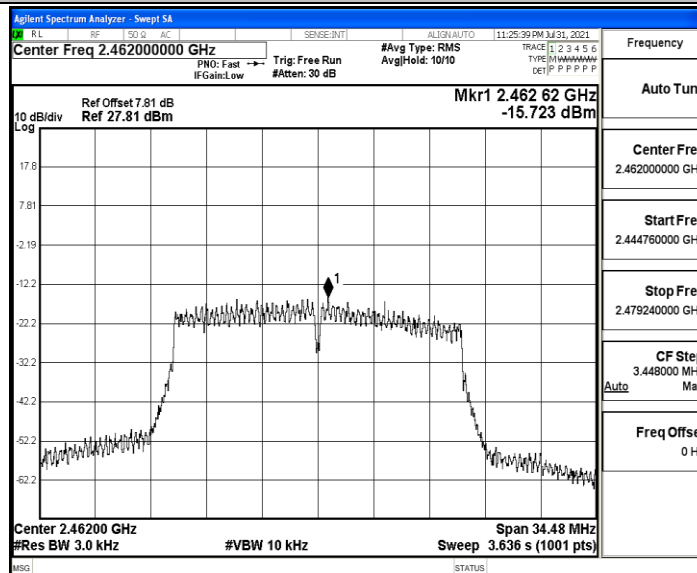
11N20SISO_Ant1_2412



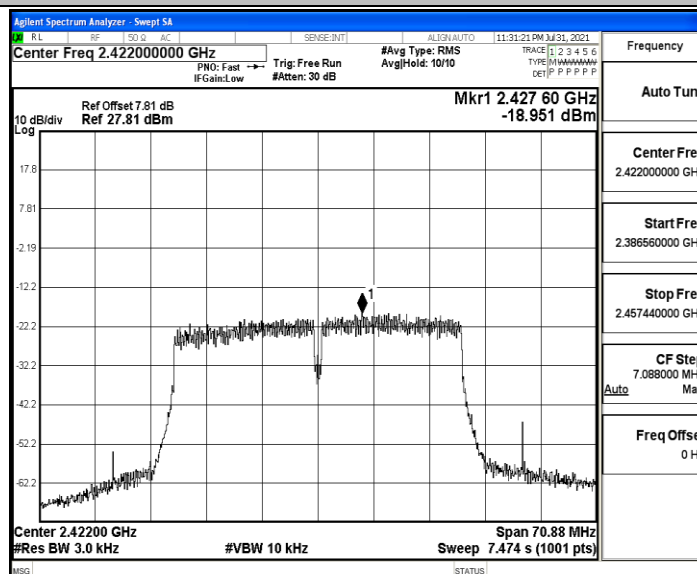
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

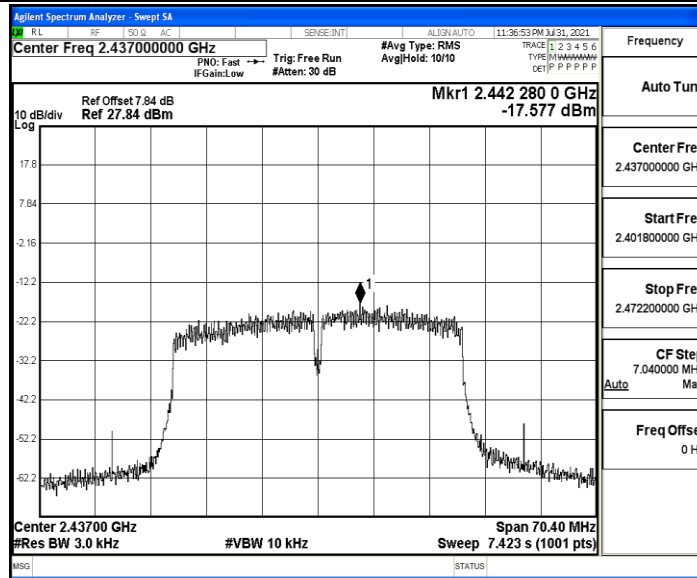


11N40SISO_Ant1_2422

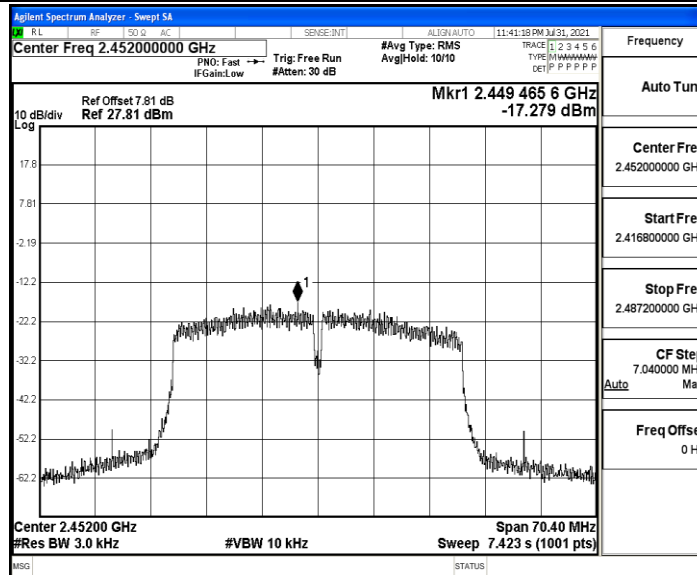




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





B.4 Band edge measurements

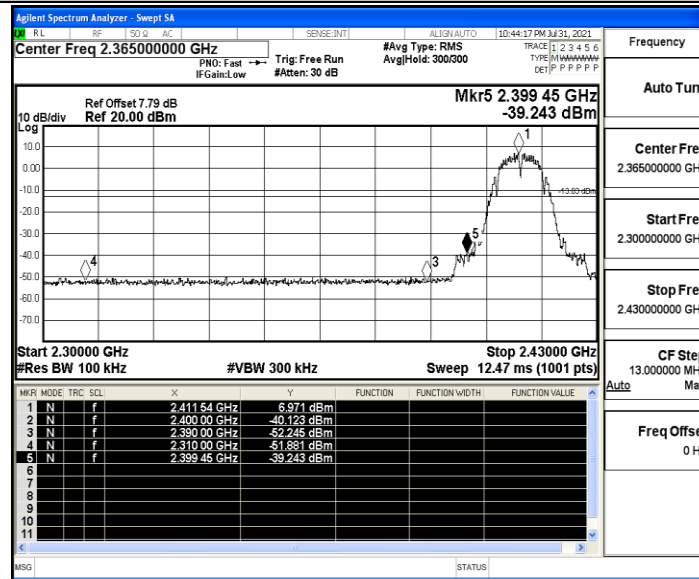
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.97	-39.24	≤ -13.03	PASS
		High	2462	2.67	-48.51	≤ -17.33	PASS
11G	Ant1	Low	2412	1.70	-35.91	≤ -18.3	PASS
		High	2462	-1.53	-45.12	≤ -21.53	PASS
11N20SISO	Ant1	Low	2412	-1.07	-38.9	≤ -21.07	PASS
		High	2462	-1.46	-44.42	≤ -21.46	PASS
11N40SISO	Ant1	Low	2422	-4.42	-37.87	≤ -24.42	PASS
		High	2452	-3.72	-37.84	≤ -23.72	PASS

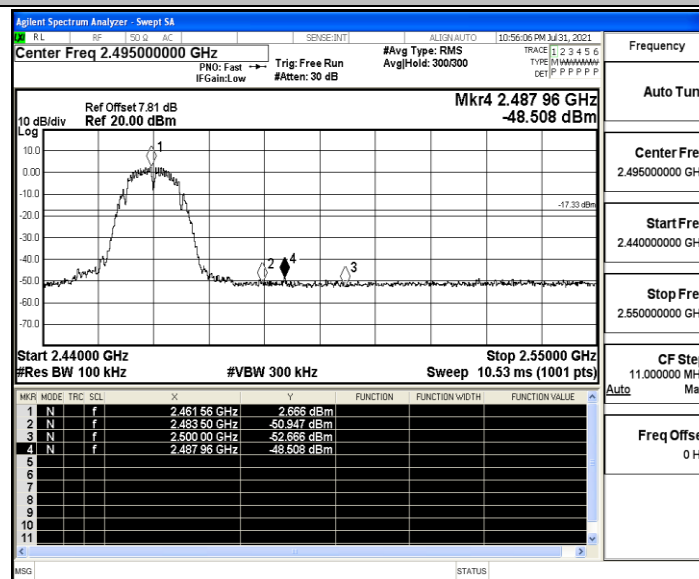


Test Graphs

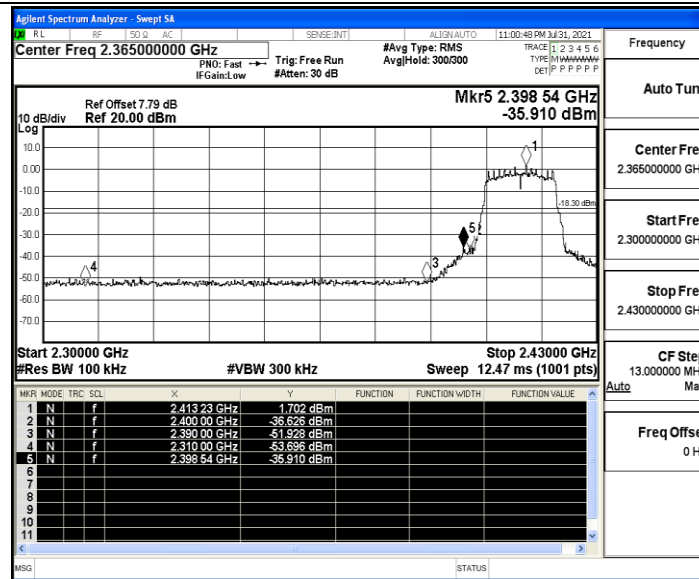
11B_Ant1_Low_2412



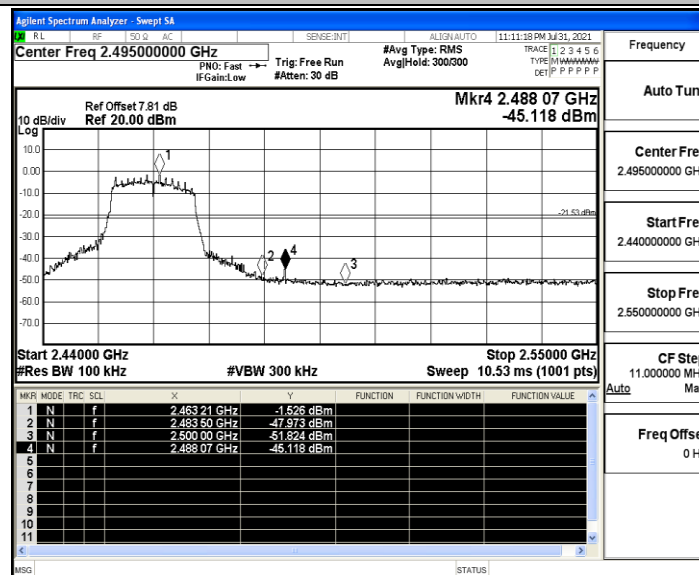
11B_Ant1_High_2462



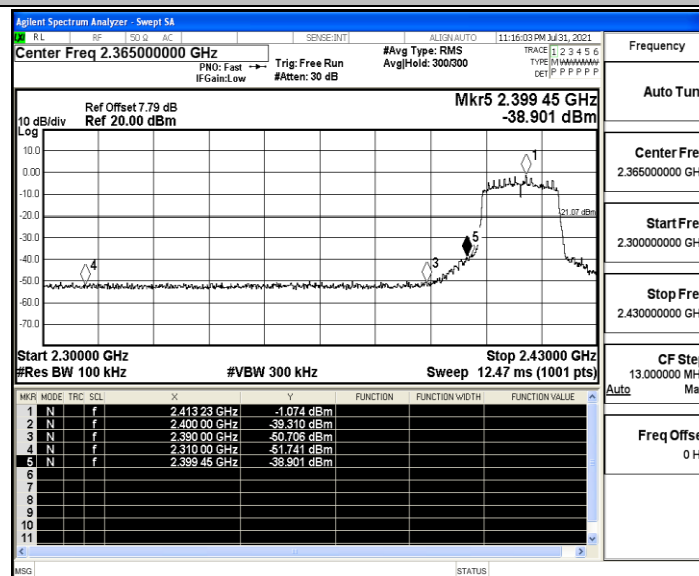
11G_Ant1_Low_2412



11G_Ant1_High_2462

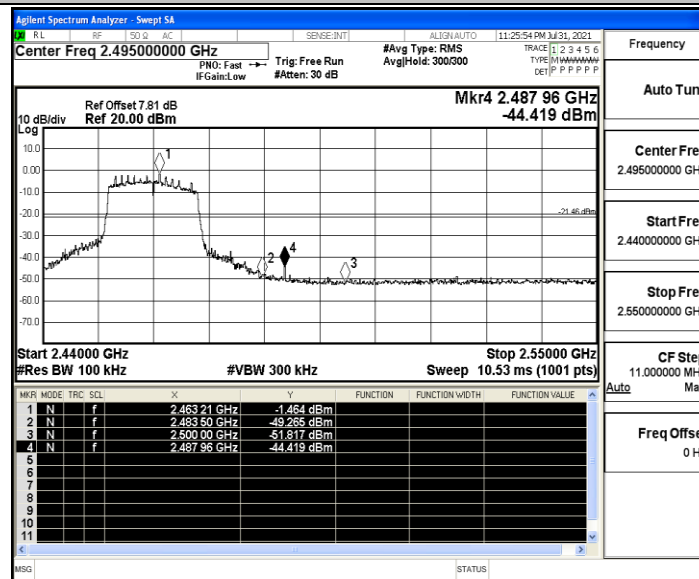


11N20SISO_Ant1_Low_2412

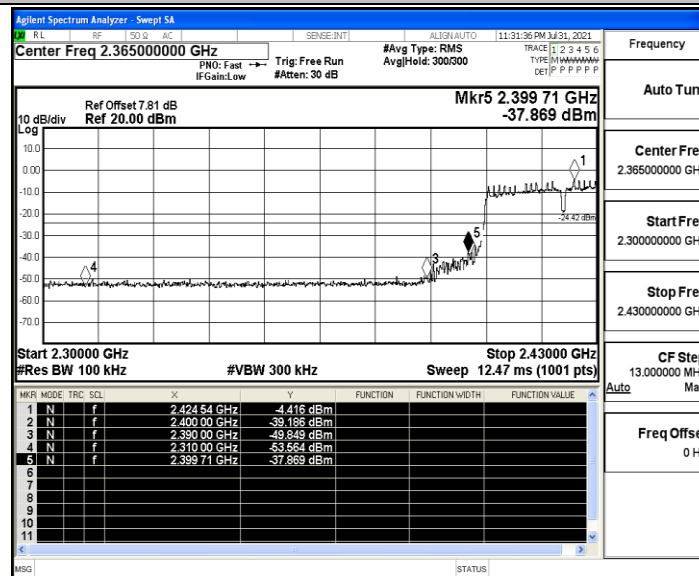




11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



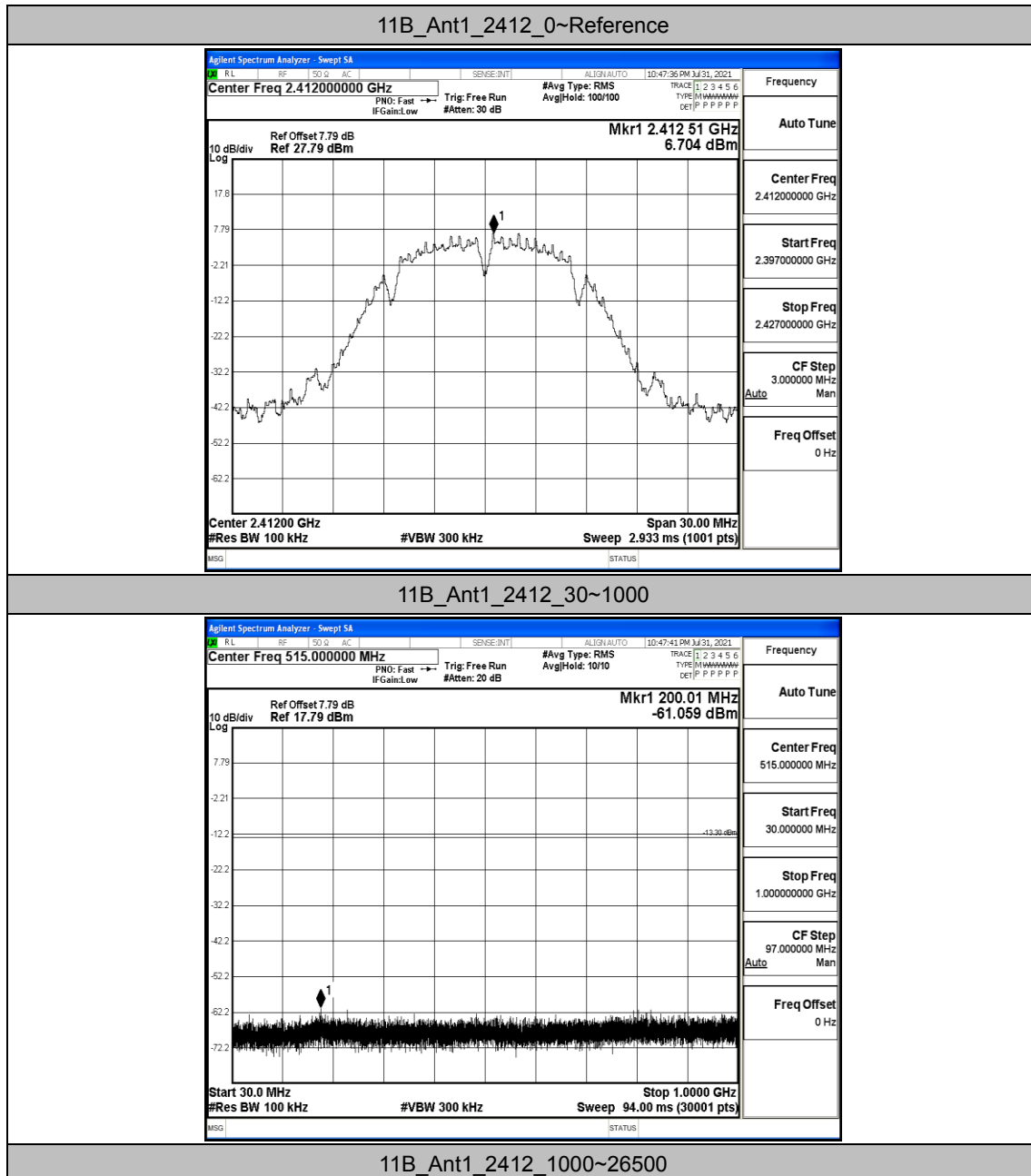
B.5 Conducted Spurious Emission

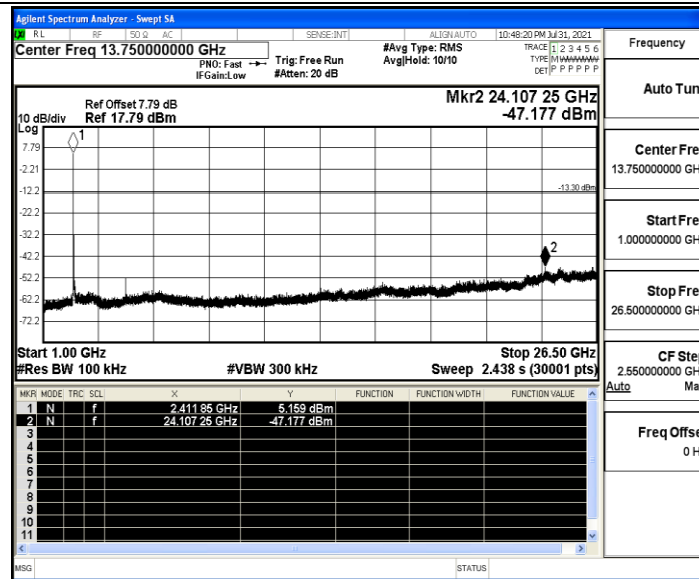
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.70	6.70	---	PASS
			30~1000	6.70	-61.06	≤ -13.3	PASS
			1000~26500	6.70	-47.18	≤ -13.3	PASS
		2437	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-59.2	≤ -17.34	PASS
			1000~26500	2.66	-47.73	≤ -17.34	PASS
		2462	Reference	2.73	2.73	---	PASS
			30~1000	2.73	-59.3	≤ -17.27	PASS
			1000~26500	2.73	-47.54	≤ -17.27	PASS
11G	Ant1	2412	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-61.55	≤ -20.35	PASS
			1000~26500	-0.35	-47.1	≤ -20.35	PASS
		2437	Reference	-1.68	-1.68	---	PASS
			30~1000	-1.68	-57.79	≤ -21.68	PASS
			1000~26500	-1.68	-47.58	≤ -21.68	PASS
		2462	Reference	-1.73	-1.73	---	PASS
			30~1000	-1.73	-58.3	≤ -21.73	PASS
			1000~26500	-1.73	-47.28	≤ -21.73	PASS
11N20SISO	Ant1	2412	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-59.39	≤ -21.15	PASS
			1000~26500	-1.15	-46.97	≤ -21.15	PASS
		2437	Reference	-1.81	-1.81	---	PASS
			30~1000	-1.81	-59.17	≤ -21.81	PASS
			1000~26500	-1.81	-47.01	≤ -21.81	PASS
		2462	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-57.91	≤ -21.71	PASS
			1000~26500	-1.71	-47.94	≤ -21.71	PASS
11N40SISO	Ant1	2422	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-58.46	≤ -24.13	PASS
			1000~26500	-4.13	-47.95	≤ -24.13	PASS
		2437	Reference	-3.98	-3.98	---	PASS
			30~1000	-3.98	-57.8	≤ -23.98	PASS
			1000~26500	-3.98	-47.53	≤ -23.98	PASS
		2452	Reference	-3.80	-3.80	---	PASS
			30~1000	-3.80	-58.84	≤ -23.8	PASS
			1000~26500	-3.80	-47.84	≤ -23.8	PASS

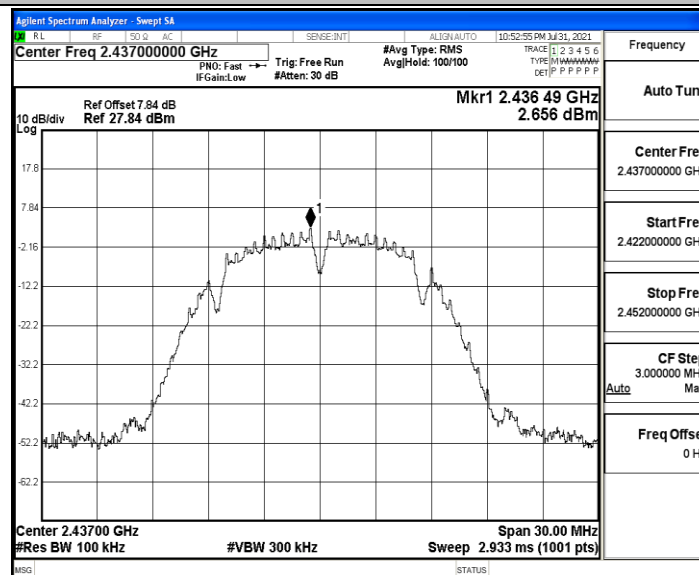


Test Graphs

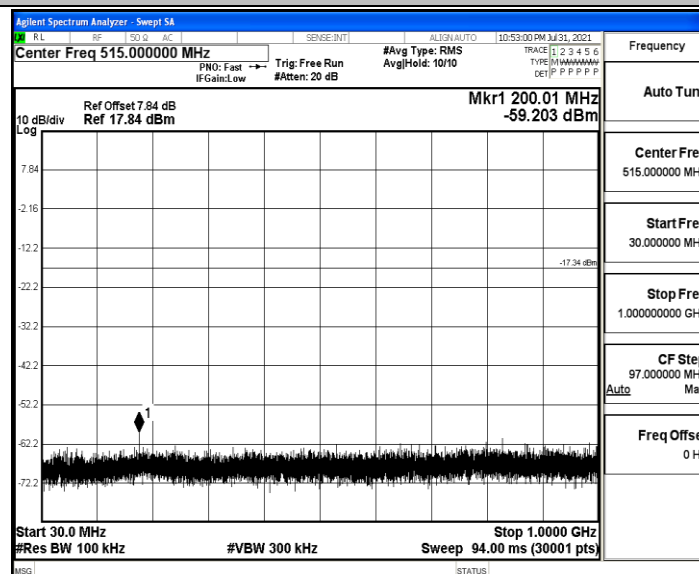


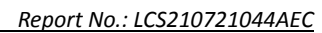


11B_Ant1_2437_0~Reference

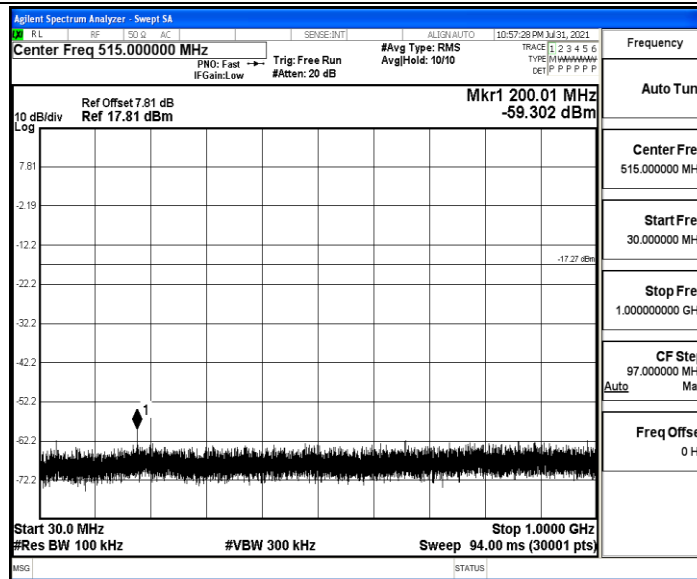


11B_Ant1_2437_30~1000

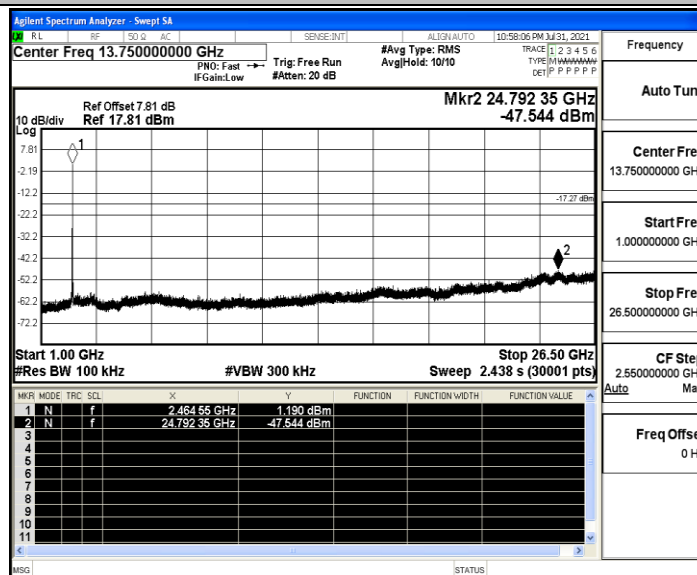




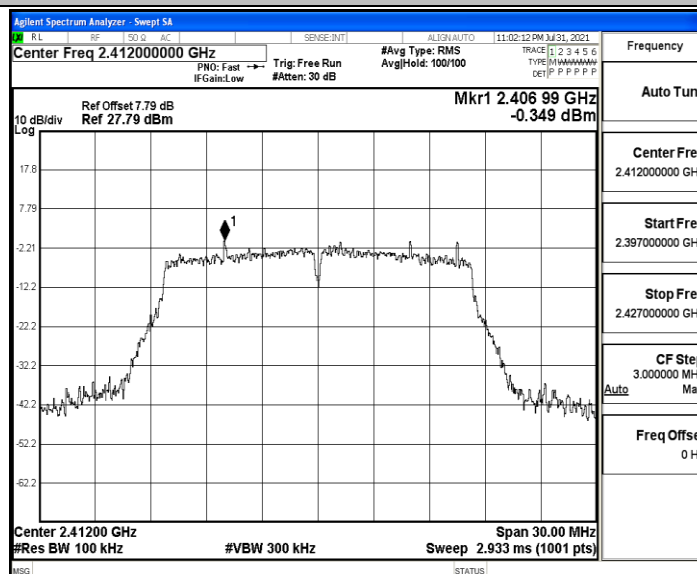
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

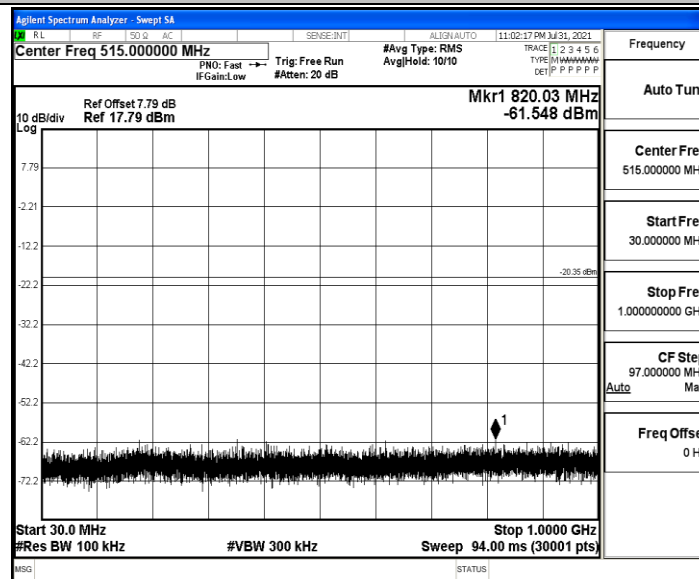


11G_Ant1_2412_0~Reference

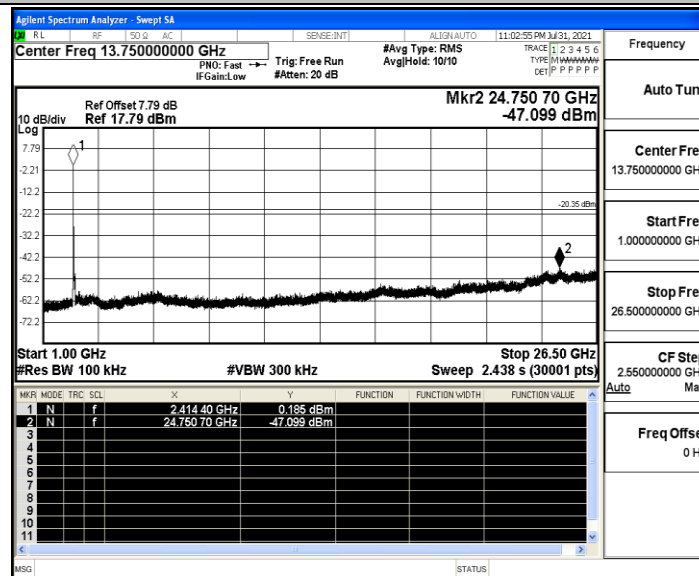




11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

Agilent Spectrum Analyzer - Sweep SA

RL RF SO G AC SENSE [INT] ALIGN AUTO 11:08:39 PM 3/31, 2021

Center Freq 13.75000000 GHz Trig: Free Run #Avg Type: RMS Avg/Hold: 10/10 Trace [1, 2, 3, 4, 5, 6] Type [Normal] Det [PPPP]

PNO: Fast IF Gain: Low #Atten: 20 dB

Mkr2 24.158 25 GHz -47.584 dBm

Ref Offset 7.84 dB
Ref 17.84 dBm

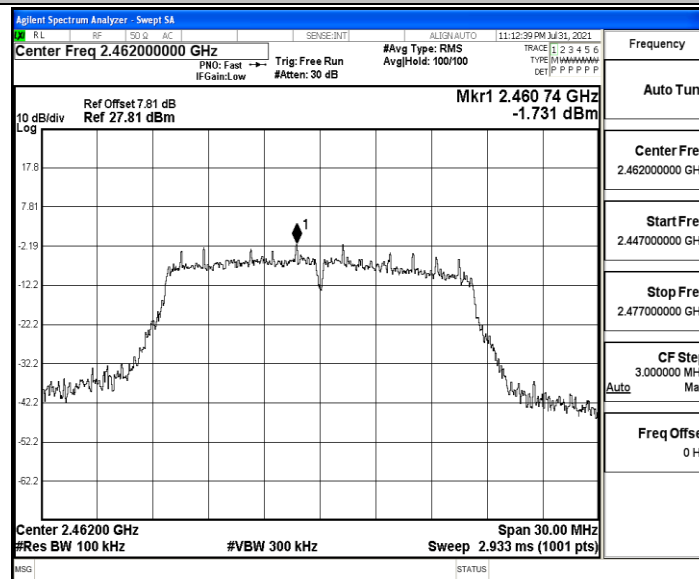
Start 1.00 GHz Stop 26.50 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.438 s (30001 pts)

MKR	MODE	FREQ	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.436 65 GHz	-1.903 dBm			
2	N	f		24.158 25 GHz	-47.584 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

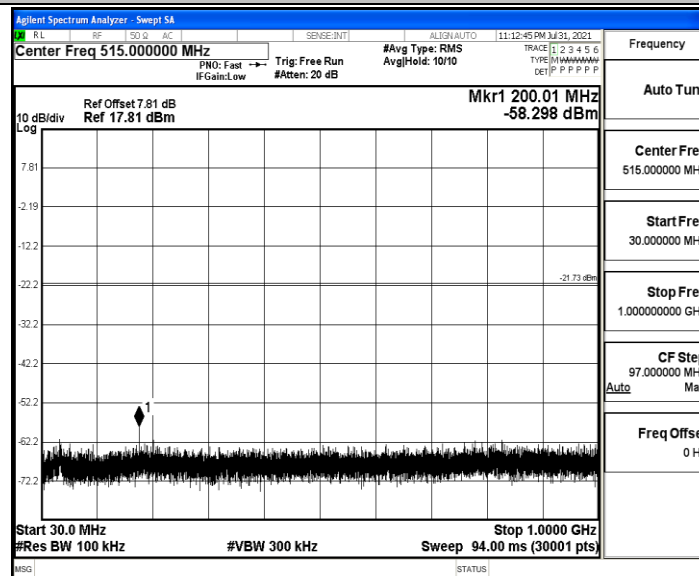
Frequency Auto Tuning Center Frequency 13.750000000 GHz Start Frequency 1.000000000 GHz Stop Frequency 26.500000000 GHz CF Step 2.550000000 GHz Auto Manual Freq Offset 0 Hz



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500