

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Tablet

Test Model: PAD_ T13

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

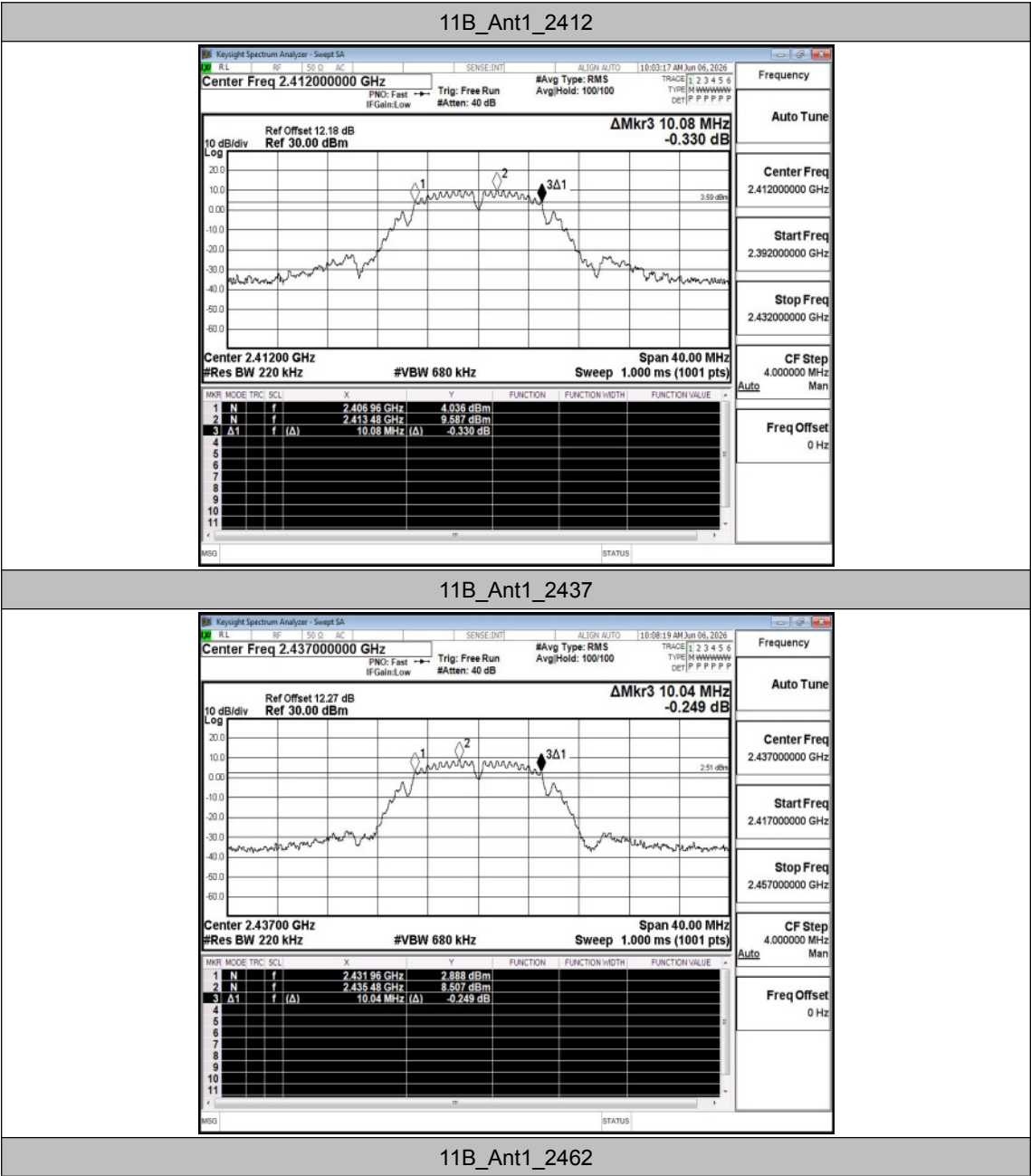
C.1 DTS Bandwidth

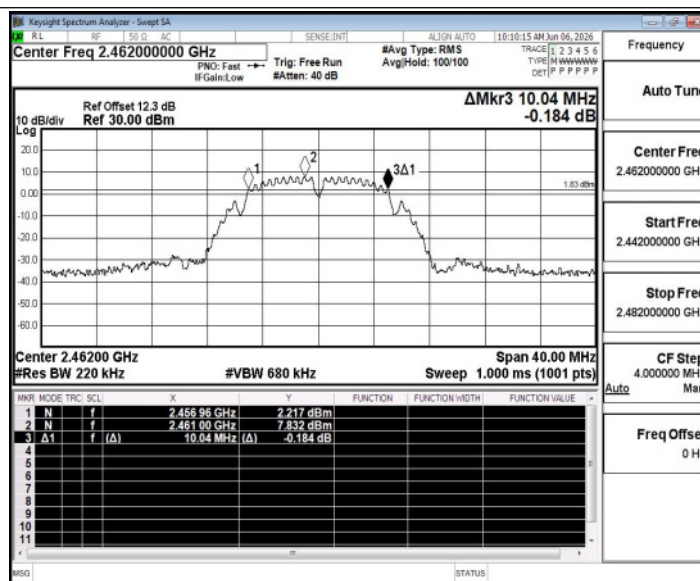
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	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	16.280	2403.840	2420.120	0.5	PASS
		2437	16.240	2428.920	2445.160	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.080	2403.480	2420.560	0.5	PASS
		2437	17.520	2428.280	2445.800	0.5	PASS
		2462	17.360	2453.400	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.400	2440.160	0.5	PASS
		2437	36.160	2418.920	2455.080	0.5	PASS
		2452	36.080	2434.000	2470.080	0.5	PASS

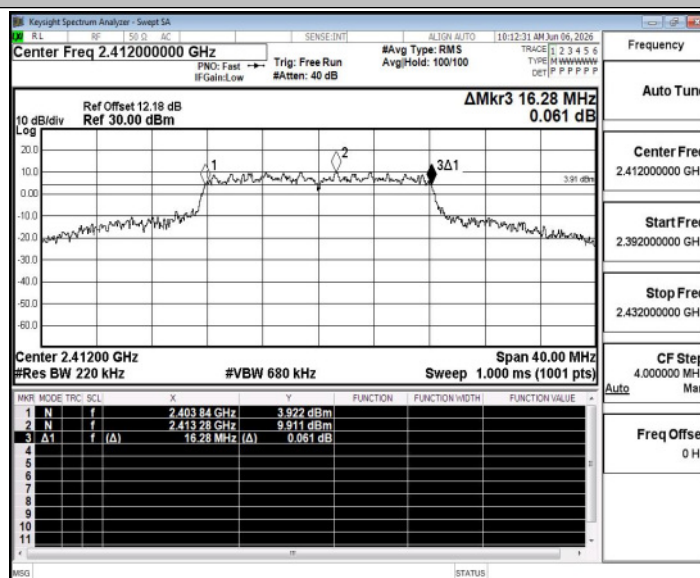
Note :offset=System attenuation +cabel loss

Test Graphs

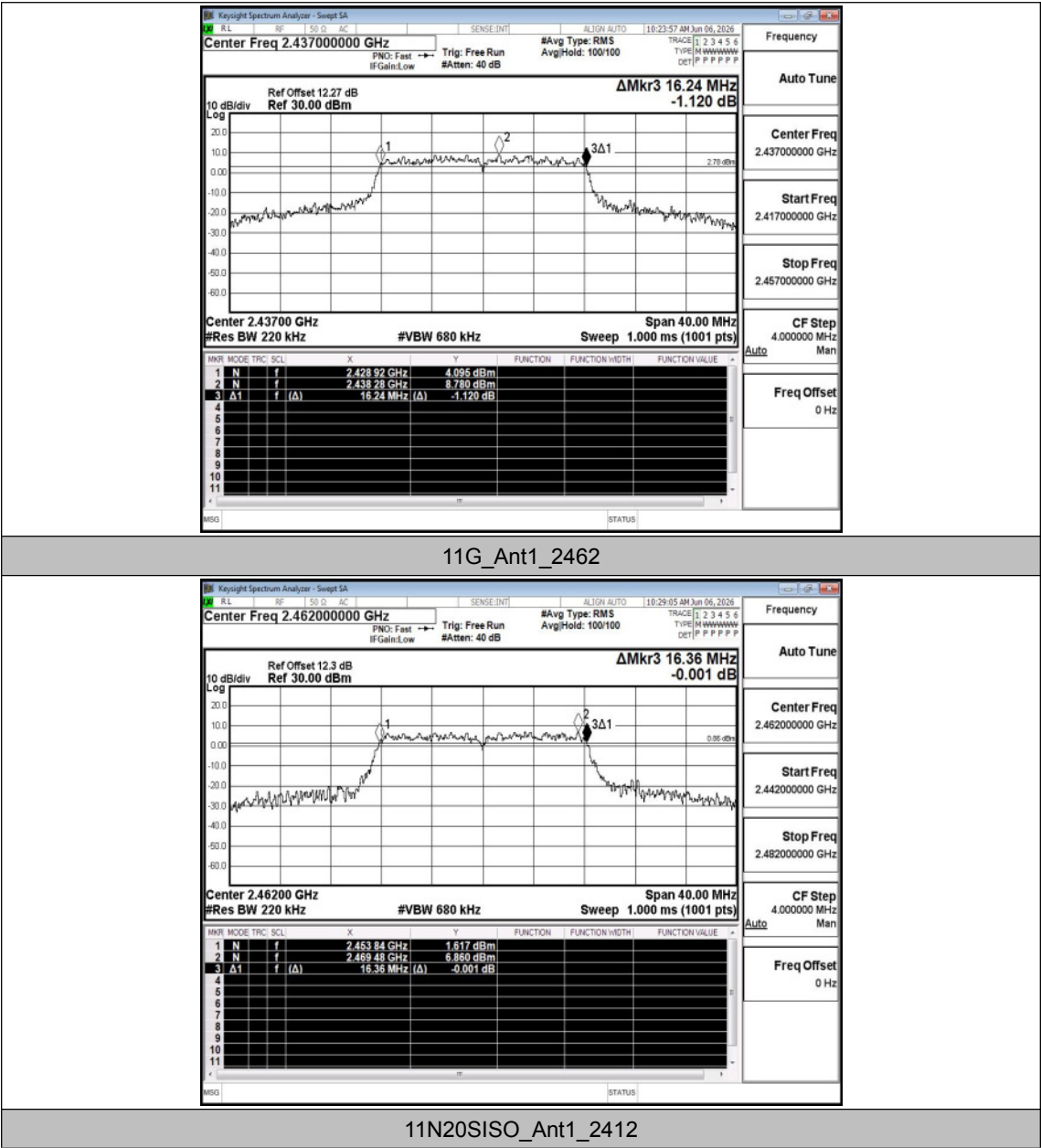


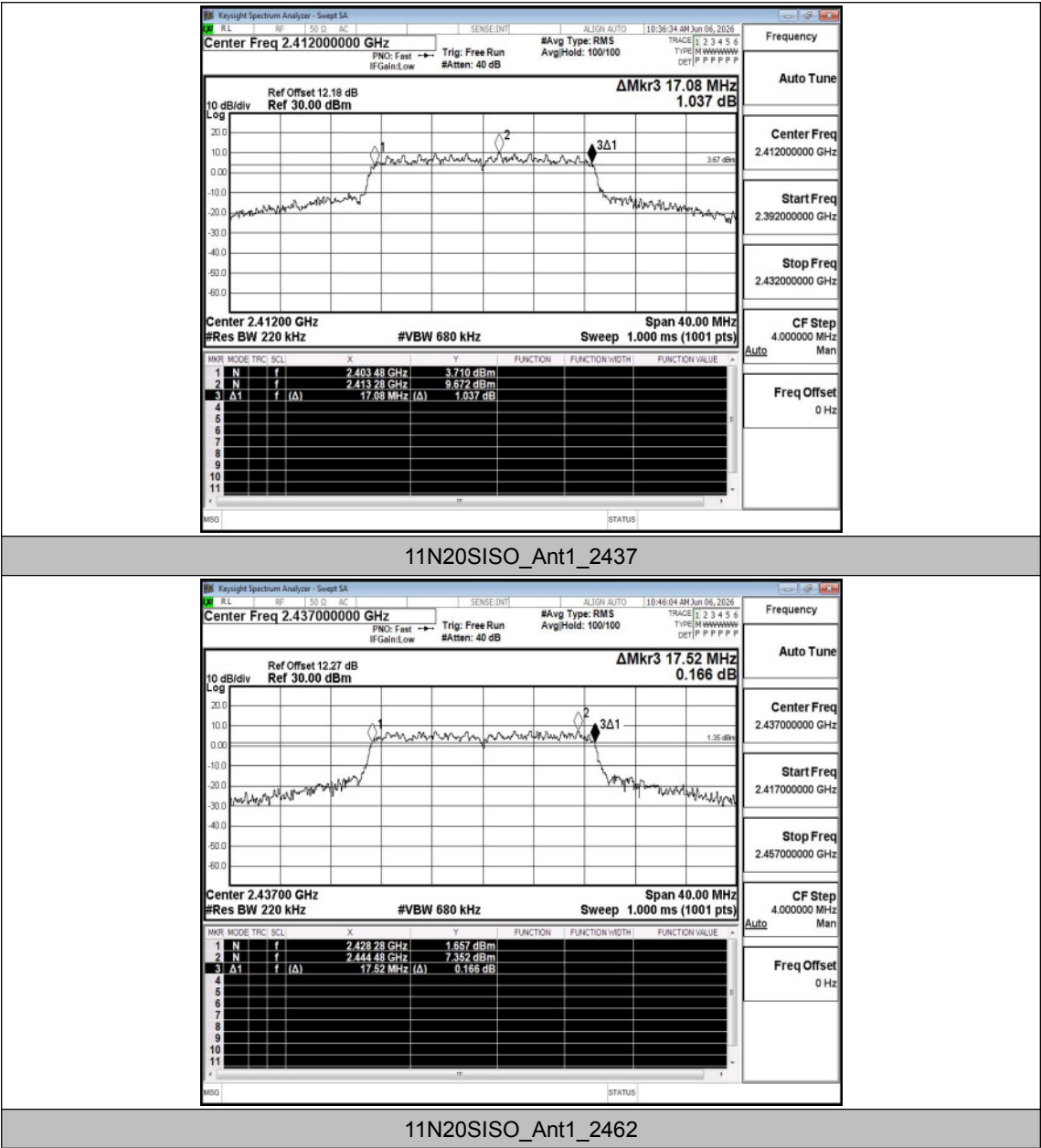


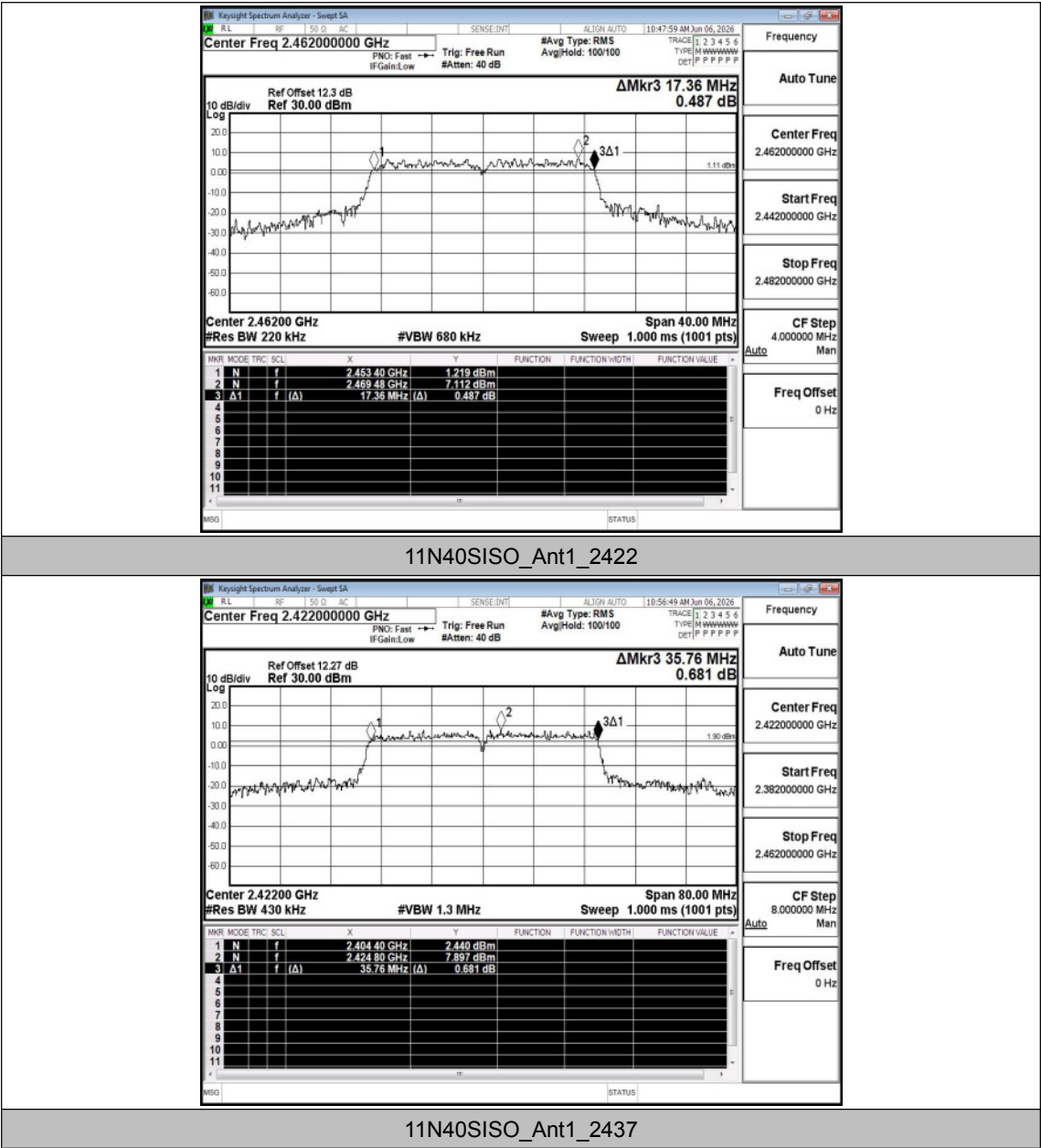
11G_Ant1_2412

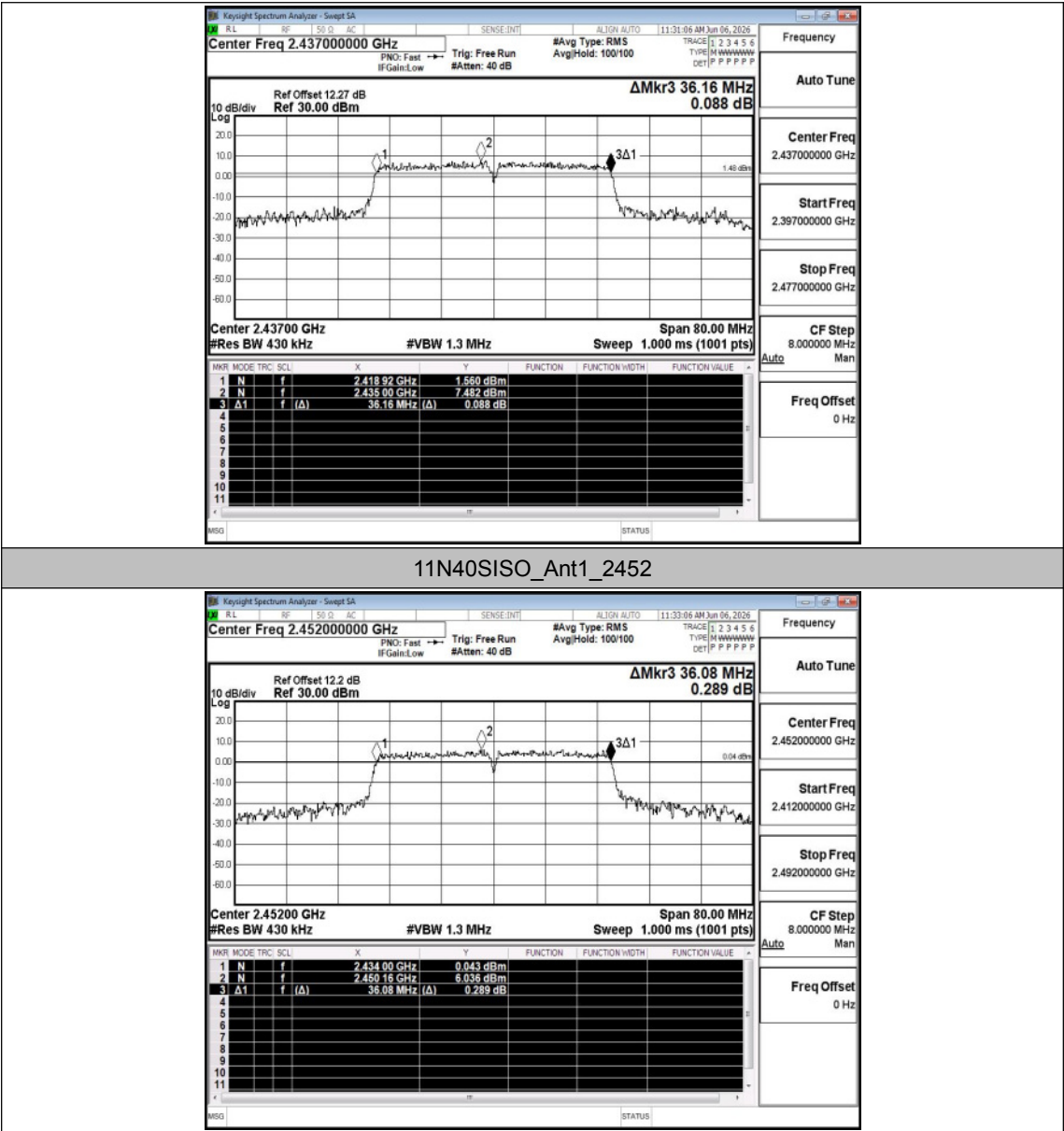


11G_Ant1_2437









C.2 Maximum Average conducted output power

Test Result Average

TestMode	Antenna	Frequency [MHz]	Measured Power	DC Factor [dB]	AV Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	18.63	0.35	18.98	≤30.00	PASS
		2437	17.48	0.53	18.01	≤30.00	PASS
		2462	16.97	0.41	17.38	≤30.00	PASS
11G	Ant1	2412	17.97	1.76	19.73	≤30.00	PASS
		2437	16.70	2.37	19.07	≤30.00	PASS
		2462	15.16	2.00	17.16	≤30.00	PASS
11N20SISO	Ant1	2412	17.43	2.14	19.57	≤30.00	PASS
		2437	15.75	2.14	17.89	≤30.00	PASS
		2462	15.30	1.76	17.06	≤30.00	PASS
11N40SISO	Ant1	2422	15.41	3.59	19.00	≤30.00	PASS
		2437	15.63	3.59	19.22	≤30.00	PASS
		2452	14.34	3.01	17.35	≤30.00	PASS

Note :offset=System attenuation +cabal loss

C.3 Maximum power spectral density

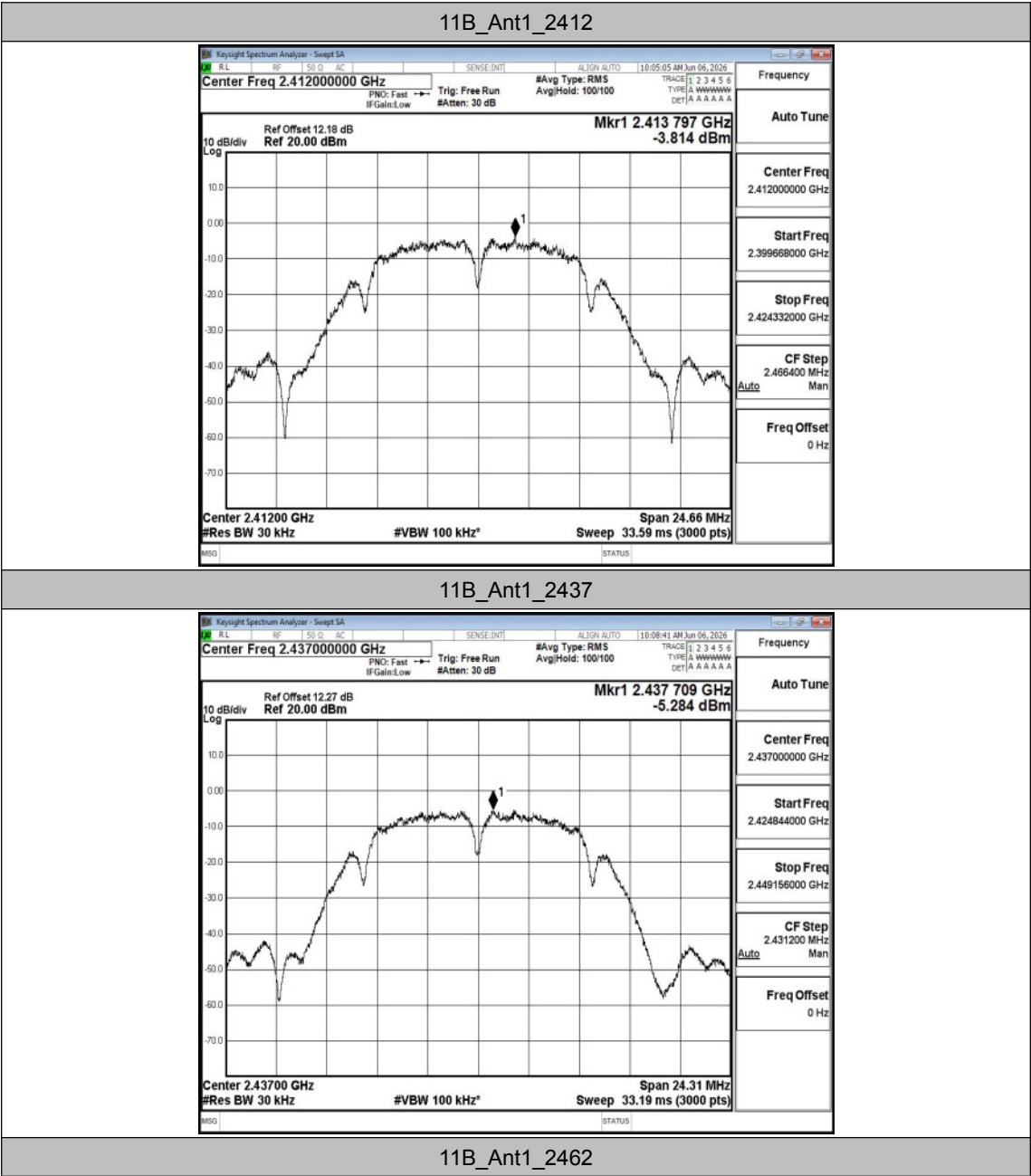
Test Result

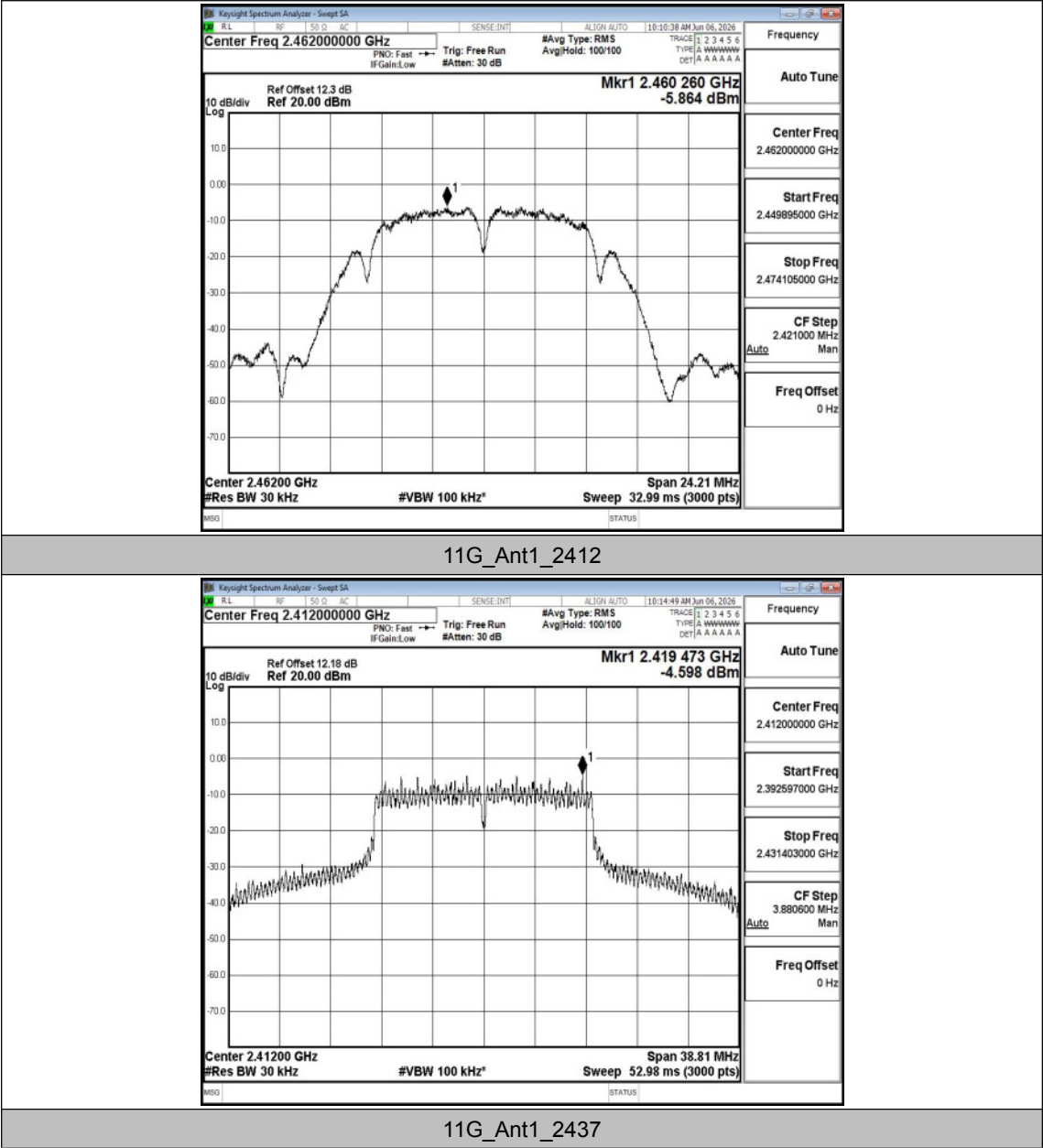
TestMode	Antenna	Frequency[MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-3.81	0.35	-3.46	-13.46	≤8.00	PASS
		2437	-5.28	0.53	-4.75	-14.75	≤8.00	PASS
		2462	-5.86	0.41	-5.45	-15.45	≤8.00	PASS
11G	Ant1	2412	-4.6	1.76	-2.84	-12.84	≤8.00	PASS
		2437	-5.32	2.37	-2.95	-12.95	≤8.00	PASS
		2462	-7.09	2.00	-5.09	-15.09	≤8.00	PASS
11N20SISO	Ant1	2412	-4.28	2.14	-2.14	-12.14	≤8.00	PASS
		2437	-6.53	2.14	-4.39	-14.39	≤8.00	PASS
		2462	-6.92	1.76	-5.16	-15.16	≤8.00	PASS
11N40SISO	Ant1	2422	-7.86	3.59	-4.27	-14.27	≤8.00	PASS
		2437	-8.26	3.59	-4.67	-14.67	≤8.00	PASS
		2452	-9.5	3.01	-6.49	-16.49	≤8.00	PASS

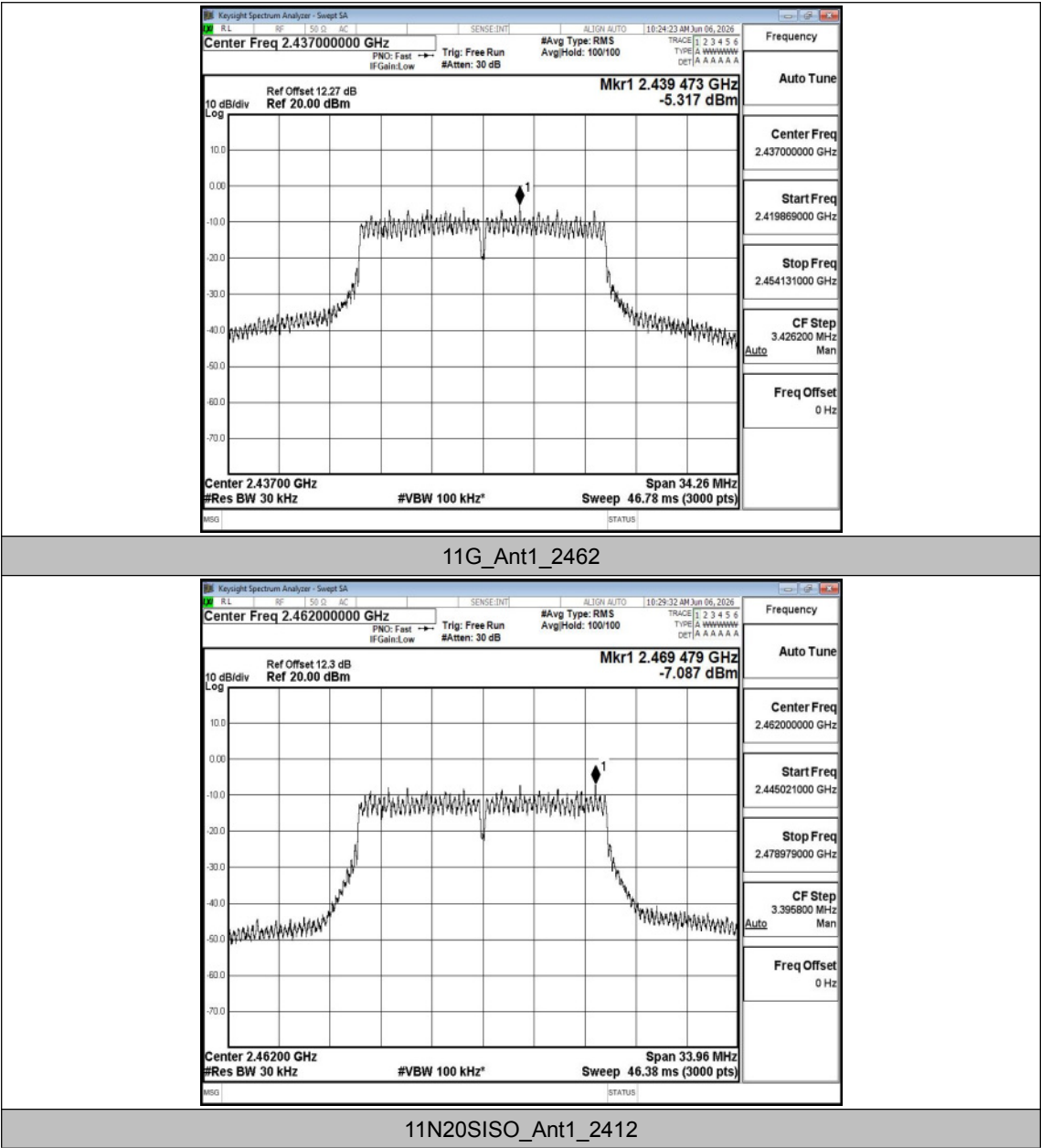
Note :offset=System attenuation +cable loss

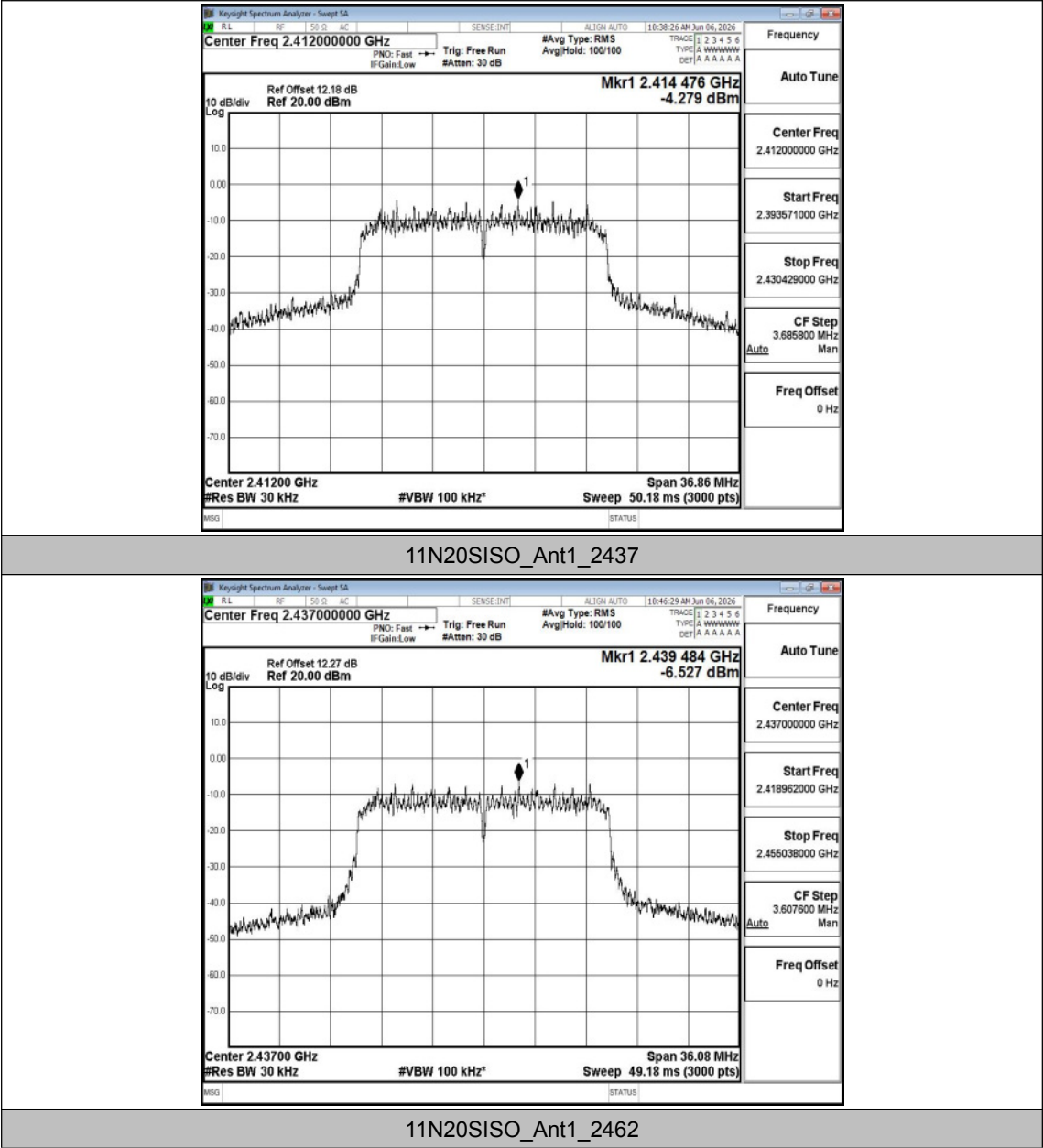
Result[dBm/3kHz]=Result[dBm/30kHz]+10*Log(3/30)

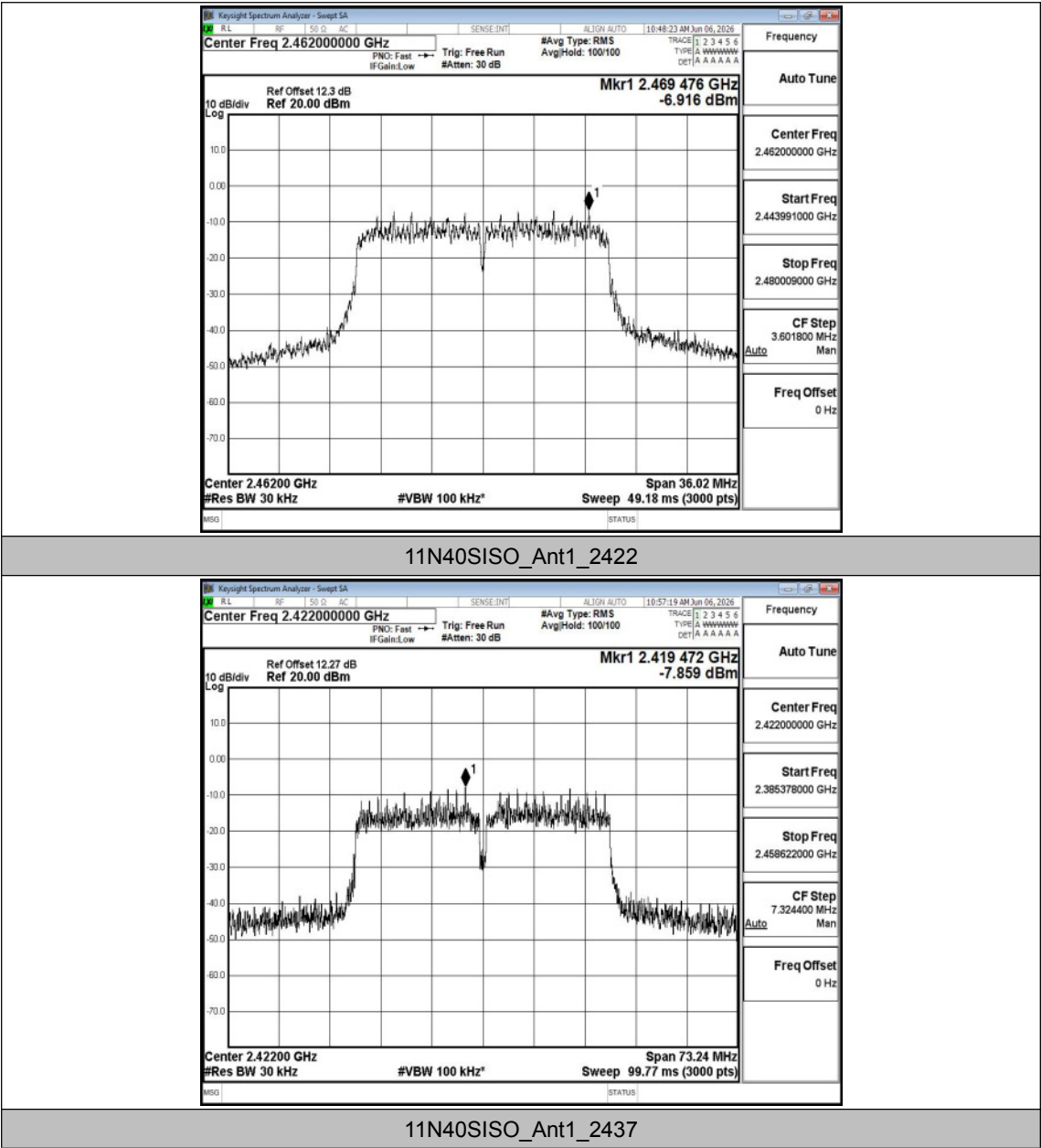
Test Graphs

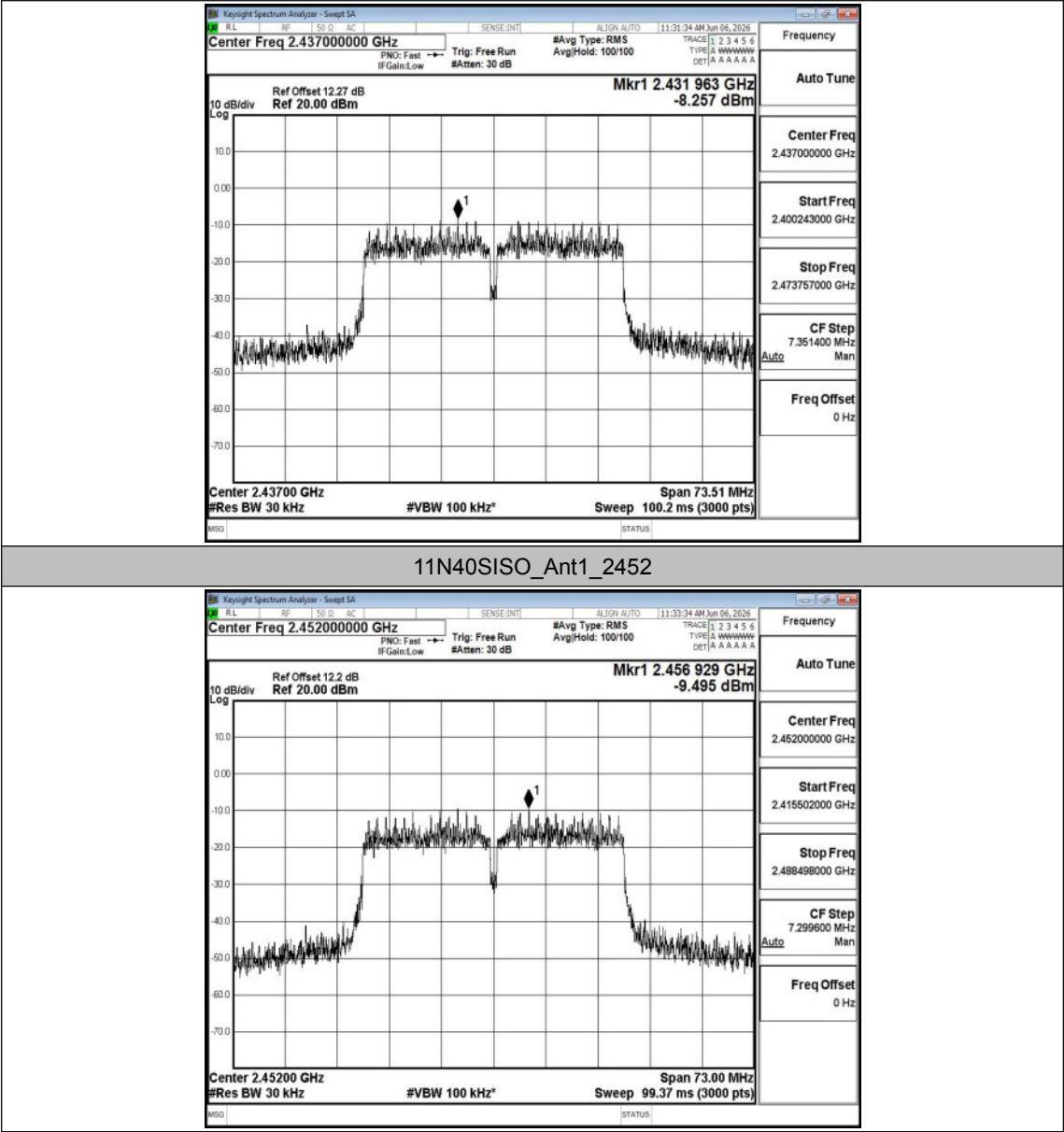












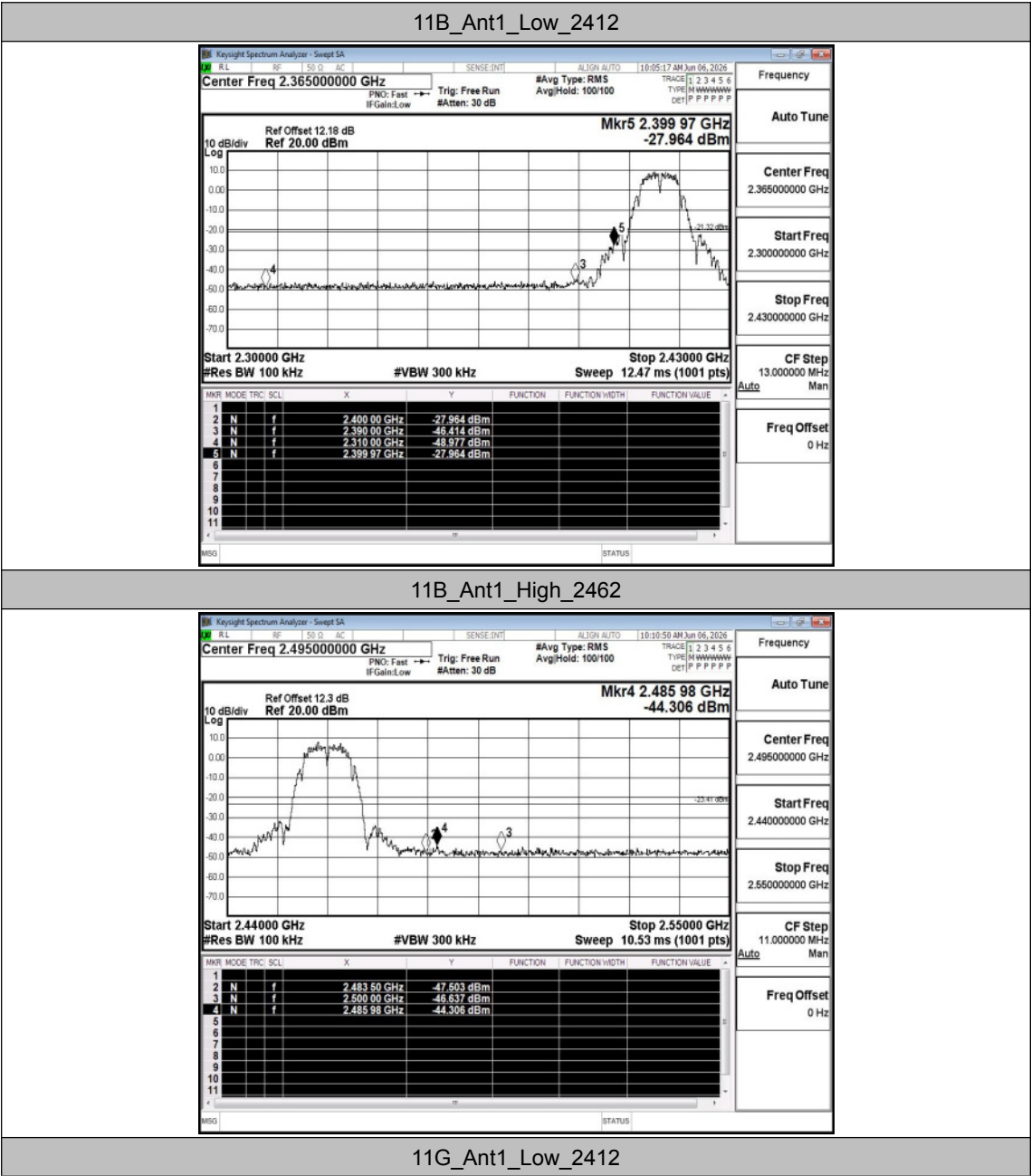
C.4 Band edge measurements

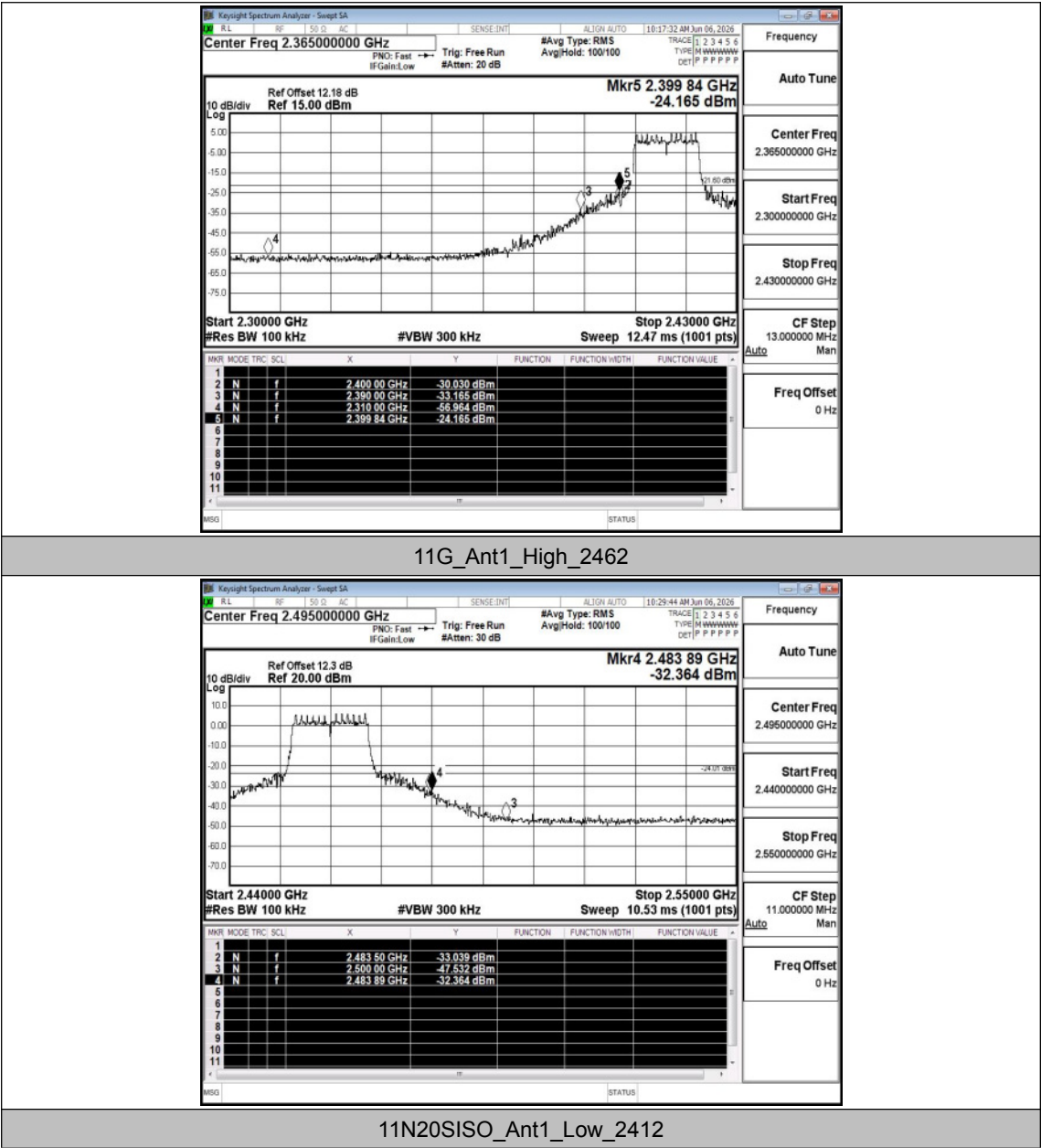
Test Result

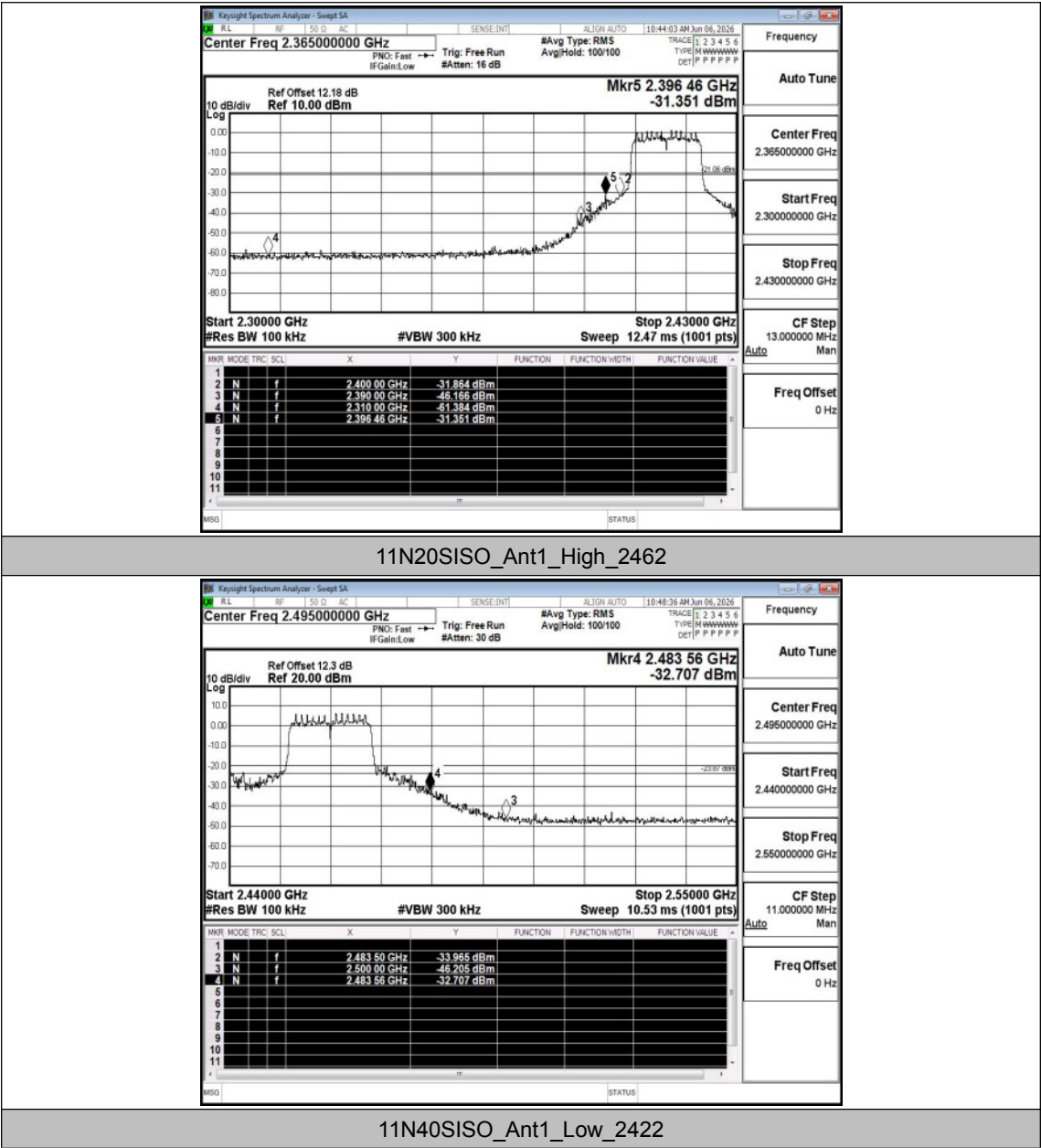
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.68	-27.96	≤-21.32	PASS
		High	2462	6.59	-44.31	≤-23.41	PASS
11G	Ant1	Low	2412	8.40	-24.17	≤-21.6	PASS
		High	2462	5.99	-32.36	≤-24.01	PASS
11N20SISO	Ant1	Low	2412	8.94	-31.35	≤-21.06	PASS
		High	2462	6.13	-32.71	≤-23.87	PASS
11N40SISO	Ant1	Low	2422	4.54	-30.22	≤-25.46	PASS
		High	2452	3.45	-26.93	≤-26.55	PASS

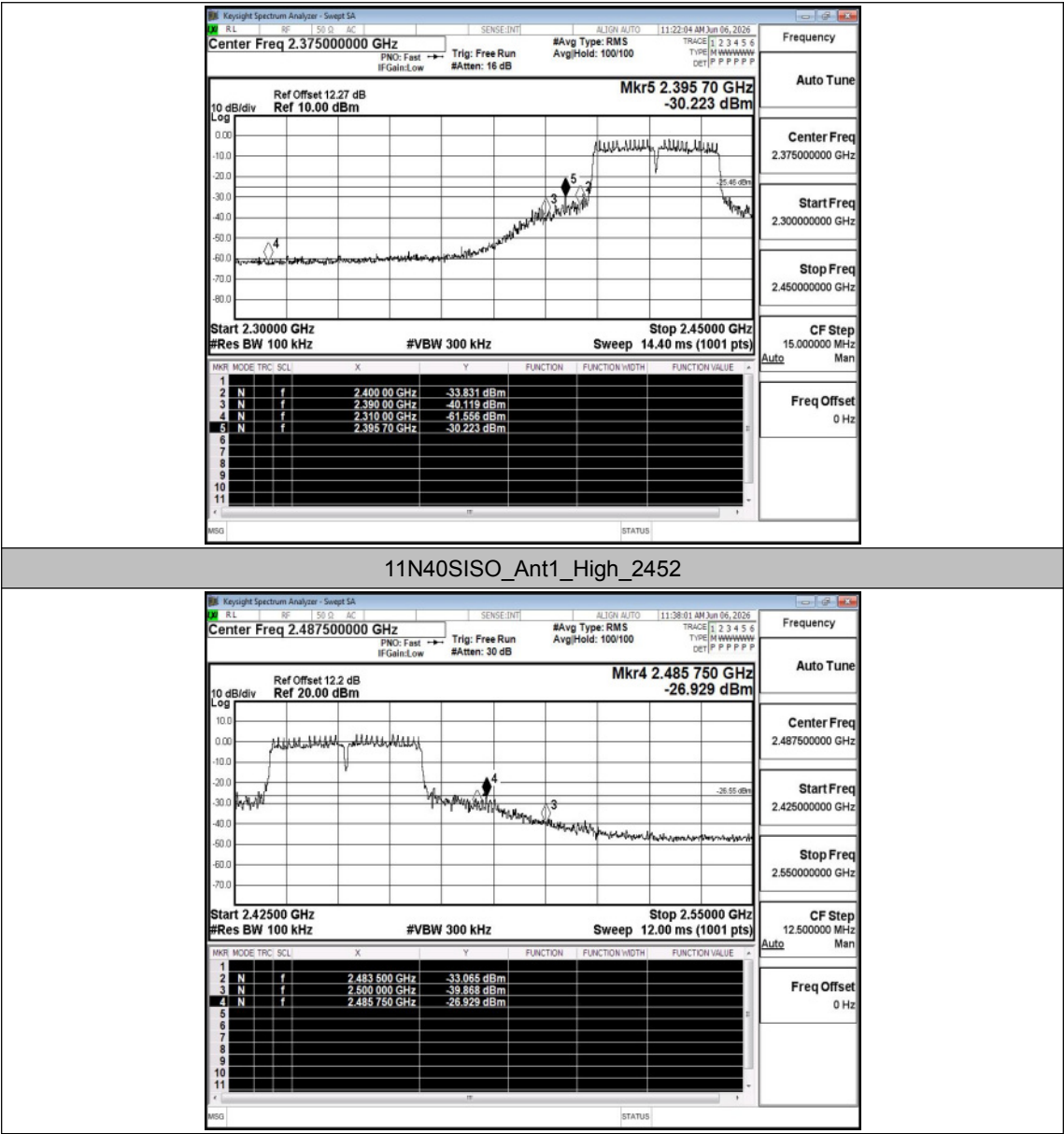
Note :offset=System attenuation +cable loss

Test Graphs









C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.84	7.84	---	PASS
			30~1000	7.84	-69.12	≤-22.16	PASS
			1000~26500	7.84	-25.7	≤-22.16	PASS
		2437	Reference	5.43	5.43	---	PASS
			30~1000	5.43	-68.94	≤-24.57	PASS
			1000~26500	5.43	-27.22	≤-24.57	PASS
		2462	Reference	6.08	6.08	---	PASS
			30~1000	6.08	-68.64	≤-23.92	PASS
			1000~26500	6.08	-27.72	≤-23.92	PASS
11G	Ant1	2412	Reference	4.70	4.70	---	PASS
			30~1000	4.70	-68.67	≤-25.3	PASS
			1000~26500	4.70	-37.32	≤-25.3	PASS
		2437	Reference	4.99	4.99	---	PASS
			30~1000	4.99	-68.35	≤-25.01	PASS
			1000~26500	4.99	-35.27	≤-25.01	PASS
		2462	Reference	0.44	0.44	---	PASS
			30~1000	0.44	-69.06	≤-29.56	PASS
			1000~26500	0.44	-43.06	≤-29.56	PASS
11N20SISO	Ant1	2412	Reference	8.28	8.28	---	PASS
			30~1000	8.28	-68.95	≤-21.72	PASS
			1000~26500	8.28	-32.02	≤-21.72	PASS
		2437	Reference	5.03	5.03	---	PASS
			30~1000	5.03	-68.8	≤-24.97	PASS
			1000~26500	5.03	-35.77	≤-24.97	PASS
		2462	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-69.24	≤-30.45	PASS
			1000~26500	-0.45	-42.24	≤-30.45	PASS
11N40SISO	Ant1	2422	Reference	-2.50	-2.50	---	PASS
			30~1000	-2.50	-69.19	≤-32.5	PASS
			1000~26500	-2.50	-42.74	≤-32.5	PASS
		2437	Reference	4.44	4.44	---	PASS
			30~1000	4.44	-68.73	≤-25.56	PASS
			1000~26500	4.44	-36.88	≤-25.56	PASS
		2452	Reference	3.14	3.14	---	PASS
			30~1000	3.14	-68.45	≤-26.86	PASS

			1000~26500	3.14	-35.48	≤-26.86	PASS
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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

