

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Touch Screen Display

Test Model: CP70

Environmental Conditions

Temperature:	24.8°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

C.1 DTS Bandwidth

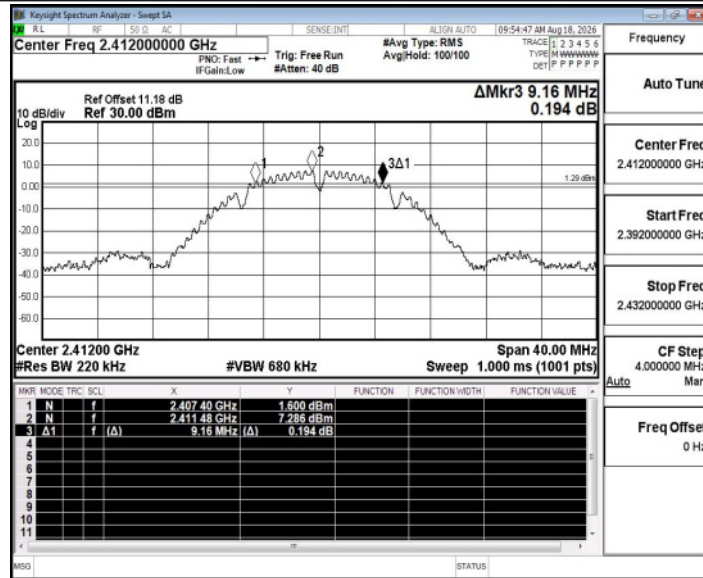
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.160	2407.400	2416.560	0.5	PASS
		2437	9.160	2432.400	2441.560	0.5	PASS
		2462	9.120	2457.440	2466.560	0.5	PASS
11G	Ant1	2412	16.320	2403.800	2420.120	0.5	PASS
		2437	16.000	2428.800	2444.800	0.5	PASS
		2462	15.800	2453.800	2469.600	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.400	2420.720	0.5	PASS
		2437	17.240	2428.280	2445.520	0.5	PASS
		2462	17.360	2453.240	2470.600	0.5	PASS

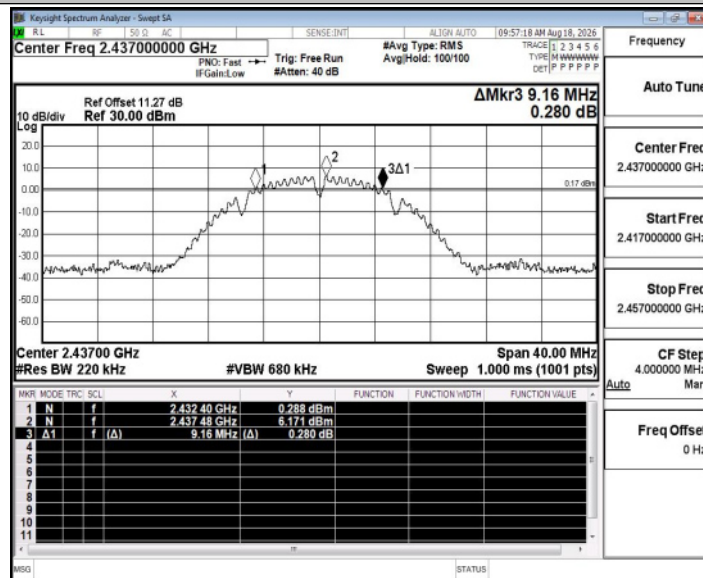
Note :offset=System attenuation +cabal loss

Test Graphs

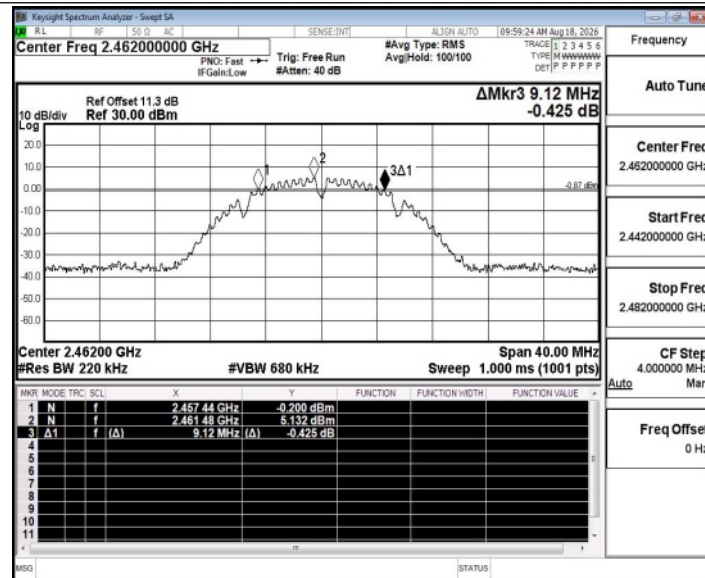
11B_Ant1_2412



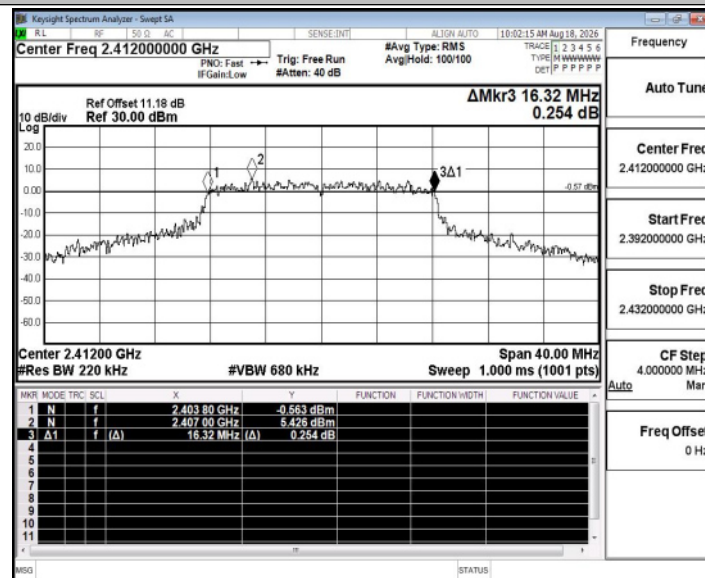
11B_Ant1_2437



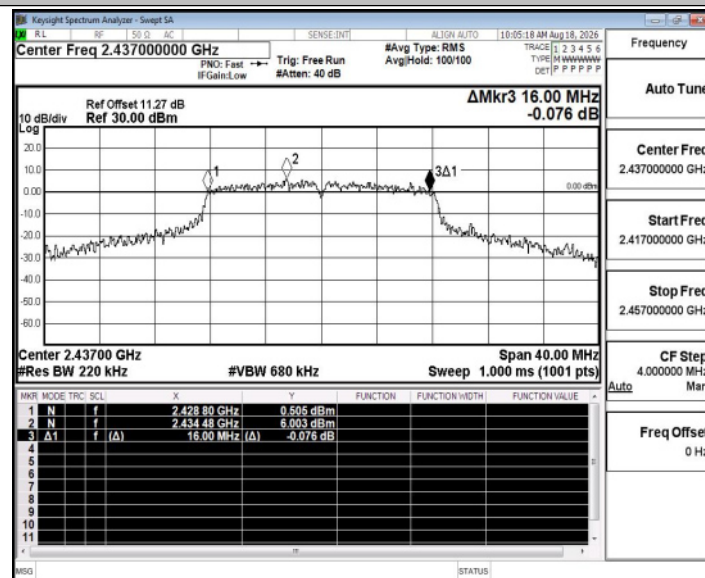
11B_Ant1_2462



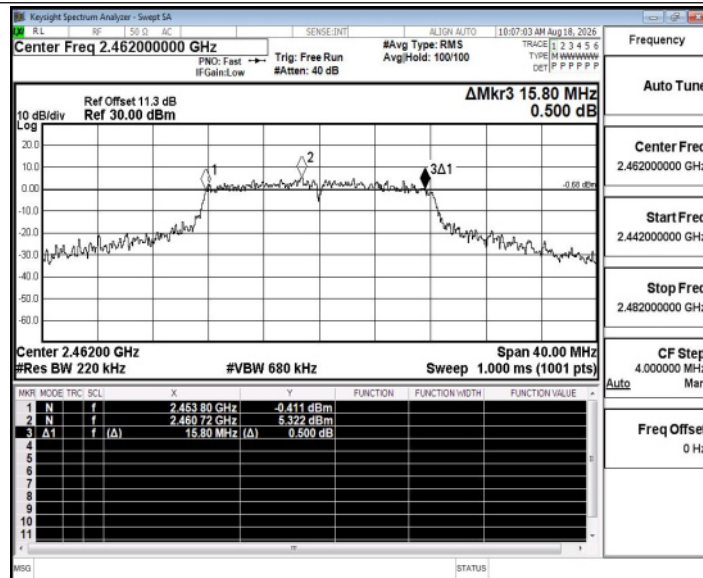
11G_Ant1_2412



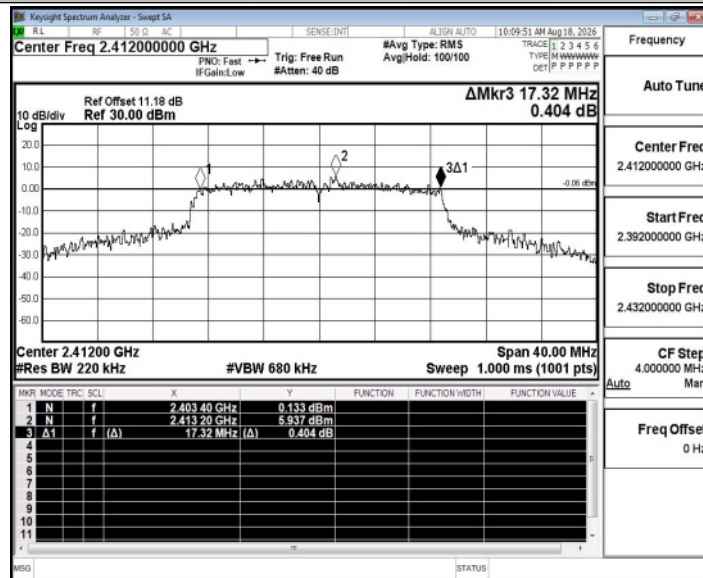
11G_Ant1_2437



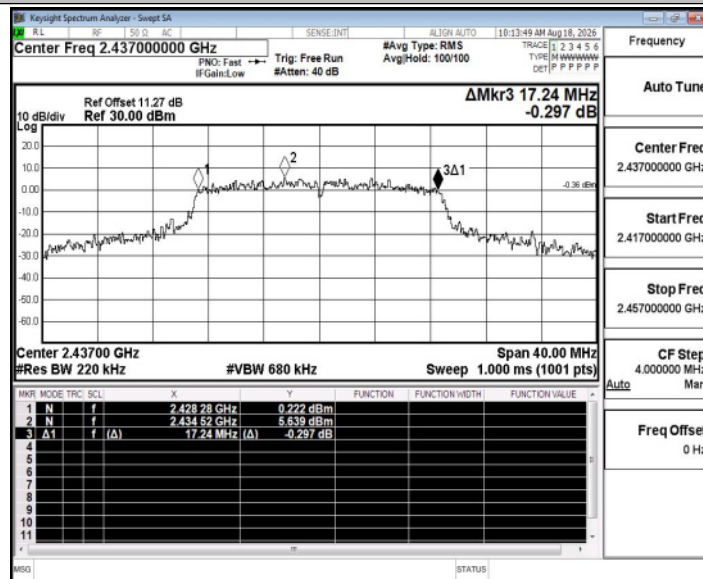
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

C.2 Maximum Average conducted output power

Test Result Average

TestMode	Antenna	Frequency [MHz]	Measured Power	DC Factor [dB]	AV Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	9.69	3.05	12.74	≤30.00	PASS
		2437	8.45	2.59	11.04	≤30.00	PASS
		2462	10.45	2.59	13.04	≤30.00	PASS
11G	Ant1	2412	6.65	7.72	14.37	≤30.00	PASS
		2437	6.87	7.76	14.63	≤30.00	PASS
		2462	5.97	7.72	13.69	≤30.00	PASS
11N20SISO	Ant1	2412	6.25	7.98	14.23	≤30.00	PASS
		2437	6.47	7.98	14.45	≤30.00	PASS
		2462	5.58	7.98	13.56	≤30.00	PASS

Note :offset=System attenuation +cable loss

C.3 Maximum power spectral density

Test Result

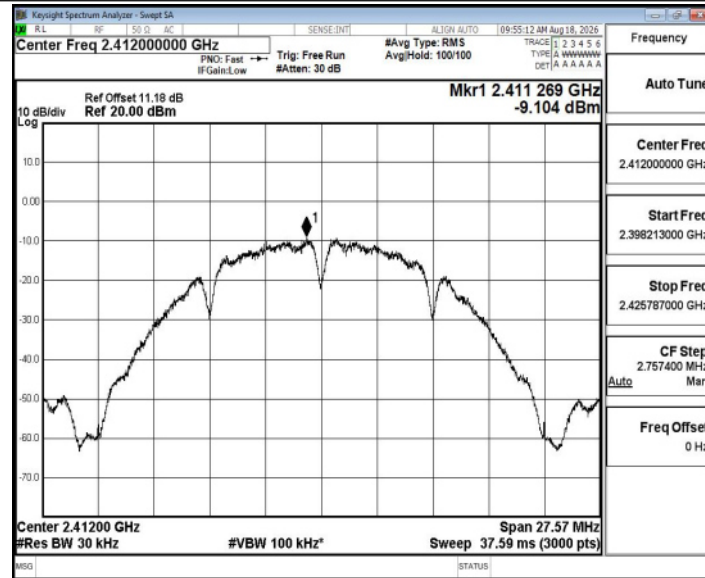
TestMode	Antenna	Frequency[MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result[dBm/30 kHz]	Result[dBm/3 kHz]	Limit[dBm/3 kHz]	Verdict
11B	Ant1	2412	-9.1	3.05	-6.05	-16.05	≤8.00	PASS
		2437	-9.37	2.59	-6.78	-16.78	≤8.00	PASS
		2462	-10.8	2.59	-8.21	-18.21	≤8.00	PASS
11G	Ant1	2412	-14.44	7.72	-6.72	-16.72	≤8.00	PASS
		2437	-14.4	7.76	-6.64	-16.64	≤8.00	PASS
		2462	-15.15	7.72	-7.43	-17.43	≤8.00	PASS
11N20SI SO	Ant1	2412	-15.95	7.98	-7.97	-17.97	≤8.00	PASS
		2437	-14.84	7.98	-6.86	-16.86	≤8.00	PASS
		2462	-16.25	7.98	-8.27	-18.27	≤8.00	PASS

Note :offset=System attenuation +cable loss

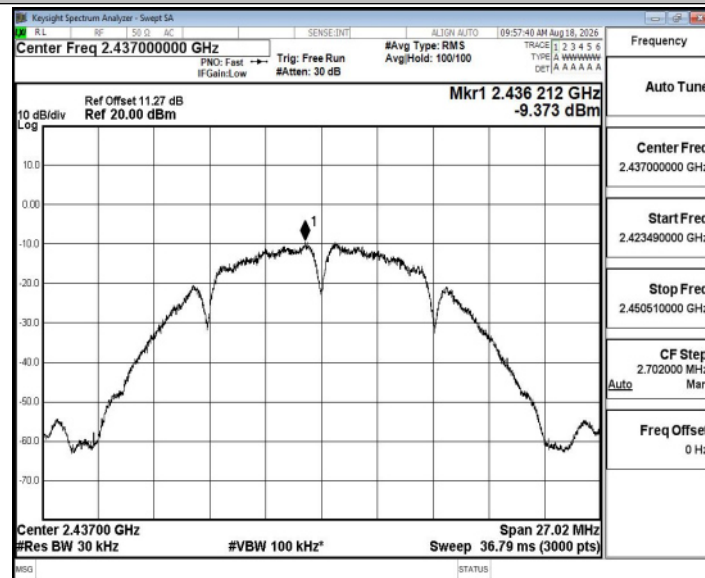
Result[dBm/3kHz]=Result[dBm/30kHz]+10*Log(3/30)

Test Graphs

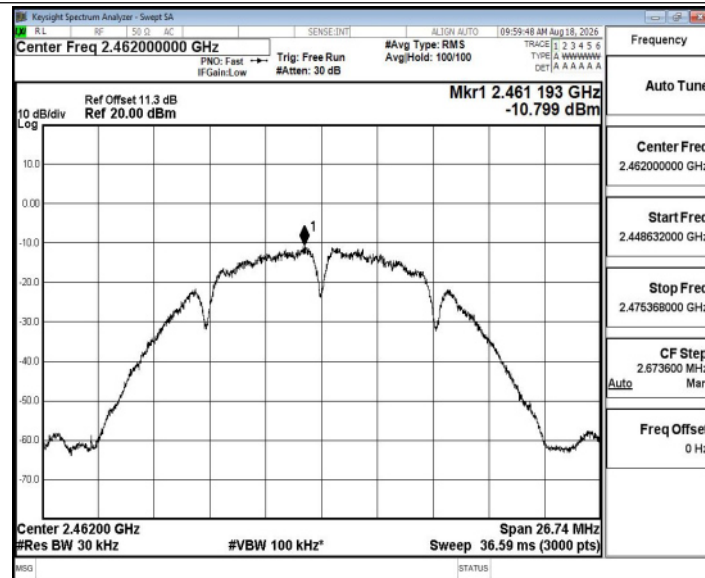
11B_Ant1_2412



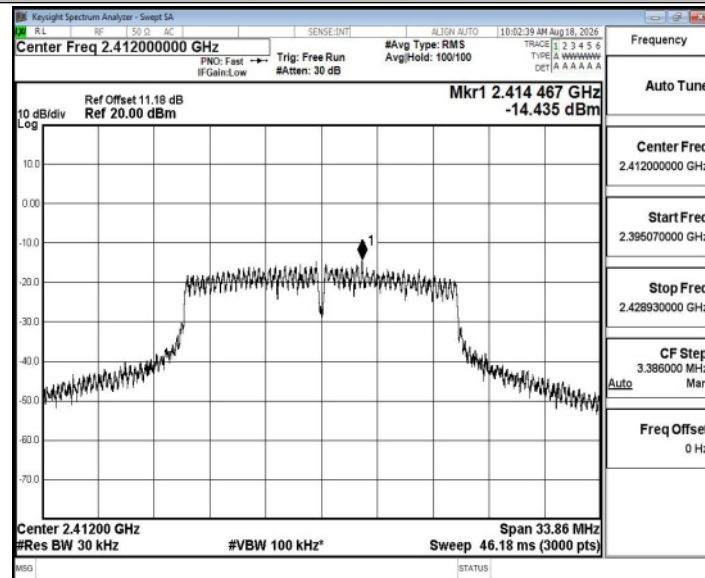
11B_Ant1_2437



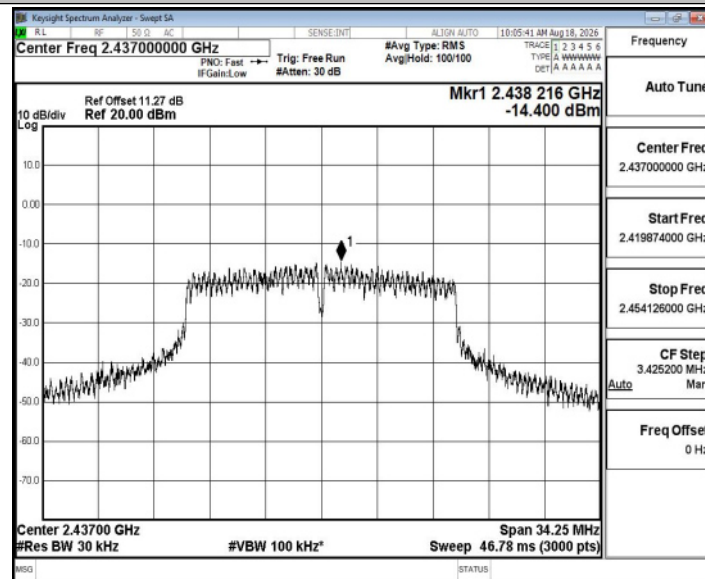
11B_Ant1_2462



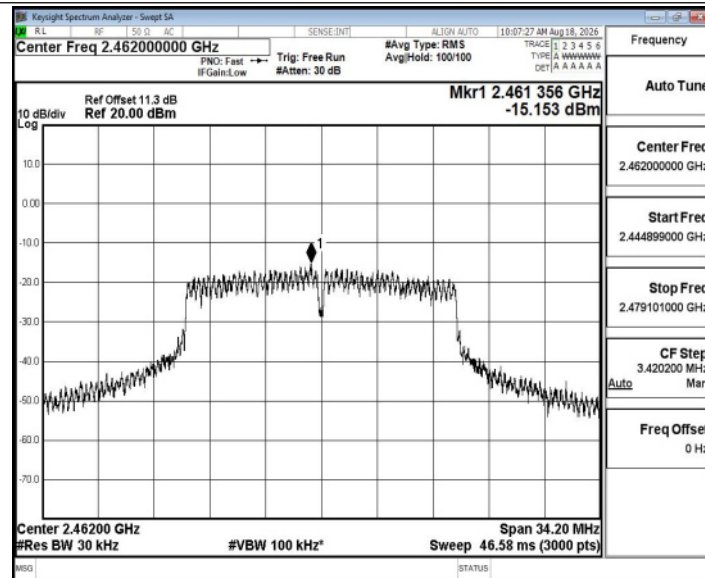
11G_Ant1_2412



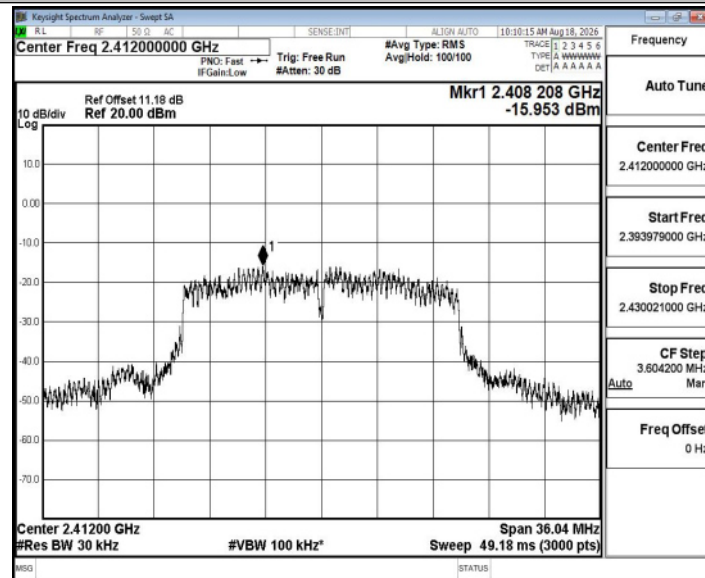
11G_Ant1_2437



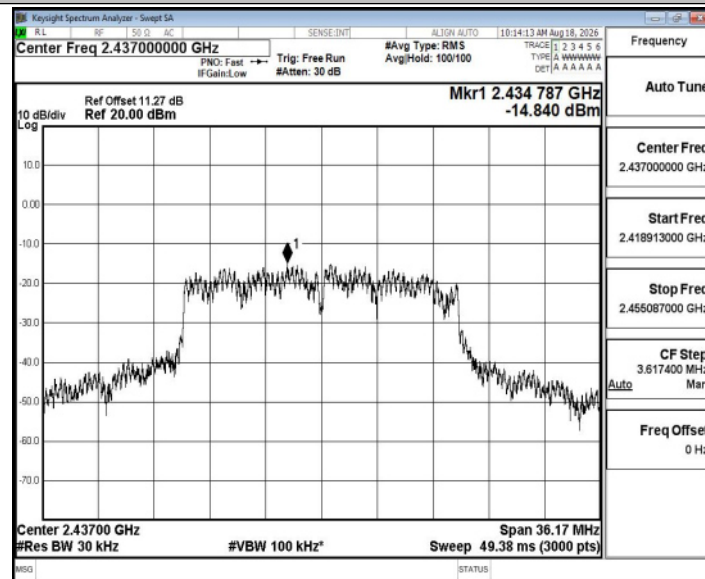
11G_Ant1_2462



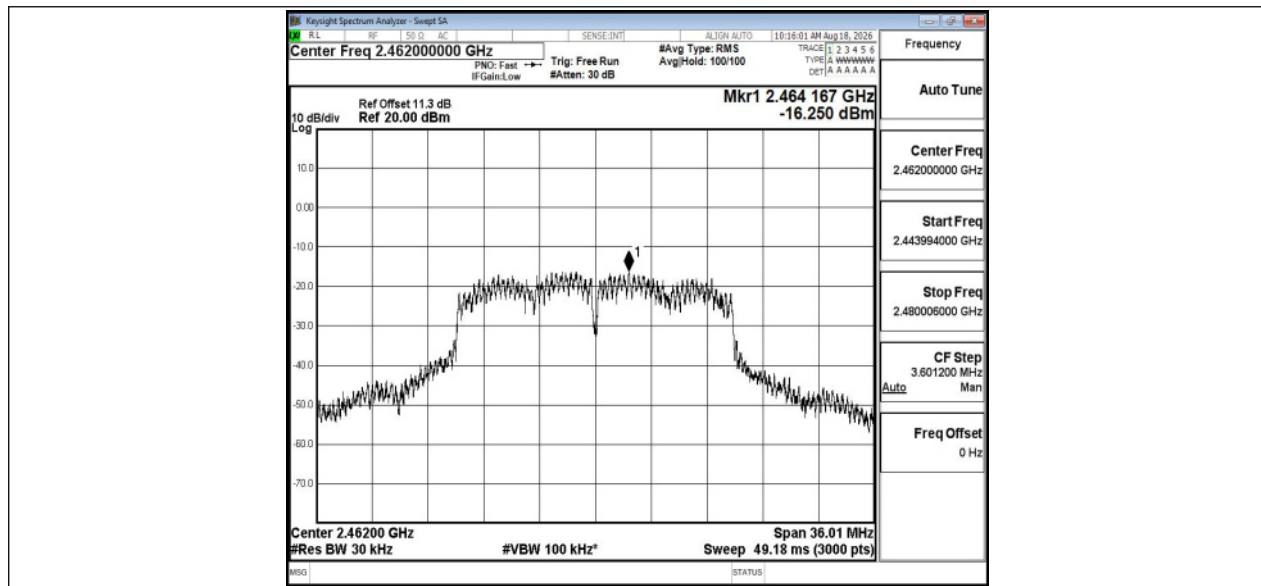
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



C.4 Band edge measurements

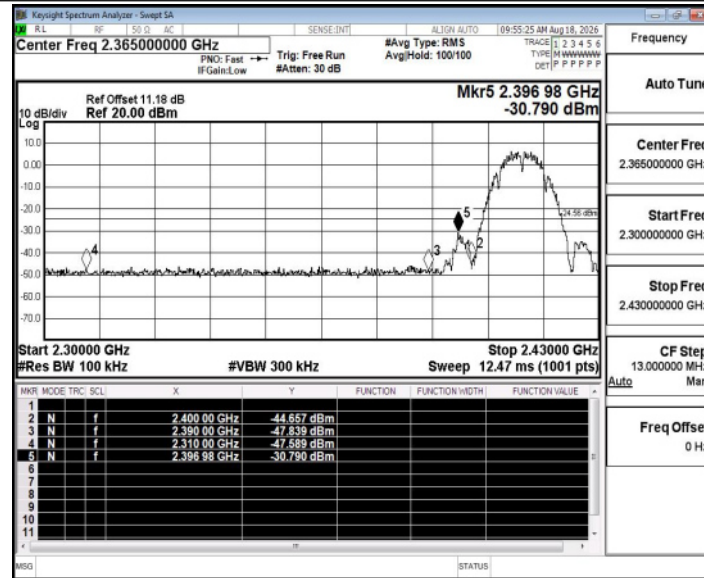
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.44	-30.79	≤-24.56	PASS
		High	2462	3.66	-45.8	≤-26.34	PASS
11G	Ant1	Low	2412	3.00	-30.5	≤-27	PASS
		High	2462	4.72	-39.56	≤-25.28	PASS
11N20SISO	Ant1	Low	2412	4.31	-31.52	≤-25.69	PASS
		High	2462	2.27	-36.68	≤-27.73	PASS

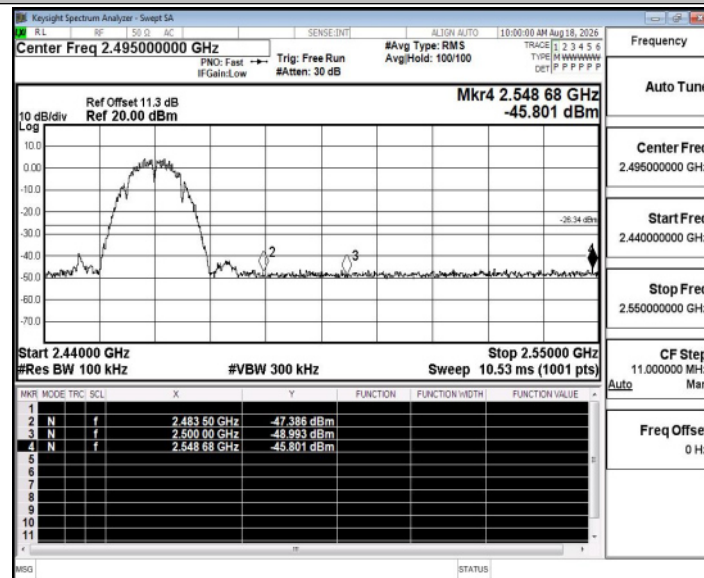
Note :offset=System attenuation +cabal loss

Test Graphs

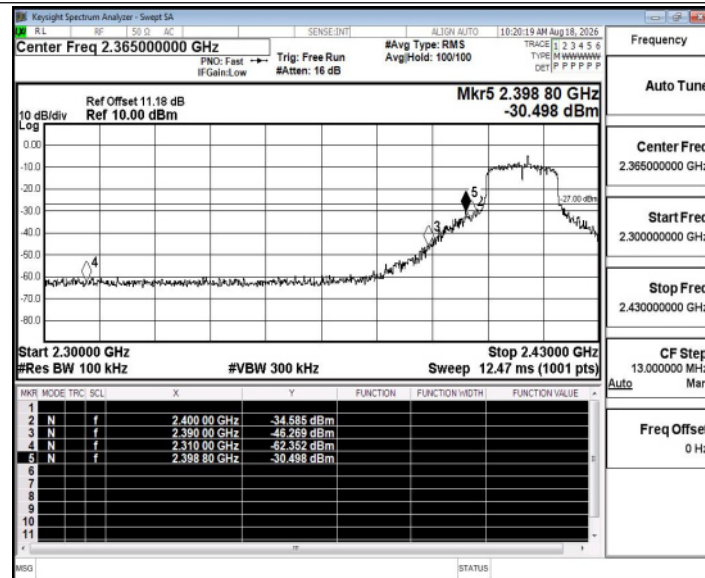
11B_Ant1_Low_2412



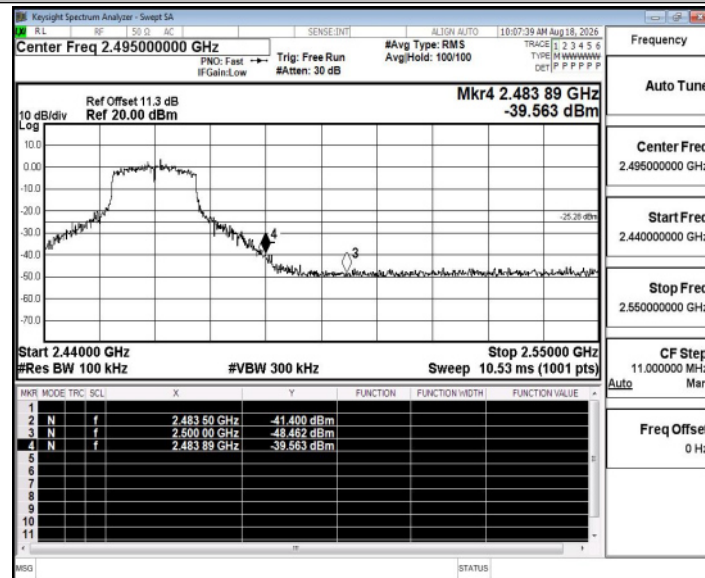
11B_Ant1_High_2462



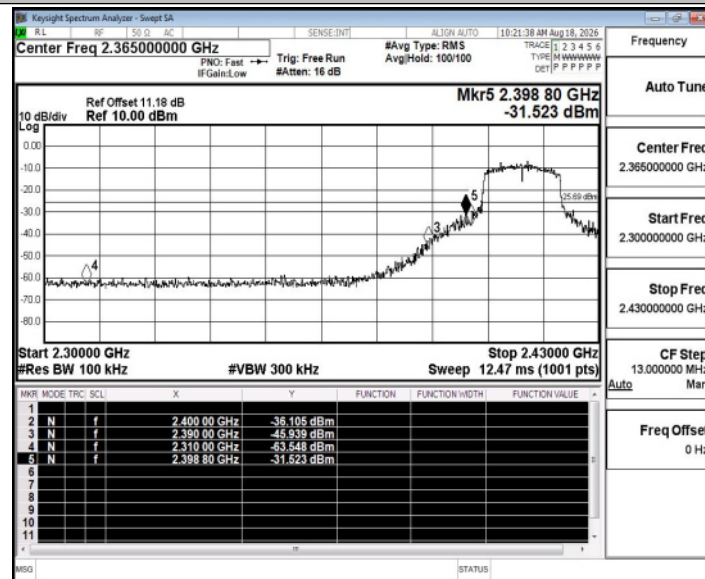
11G_Ant1_Low_2412



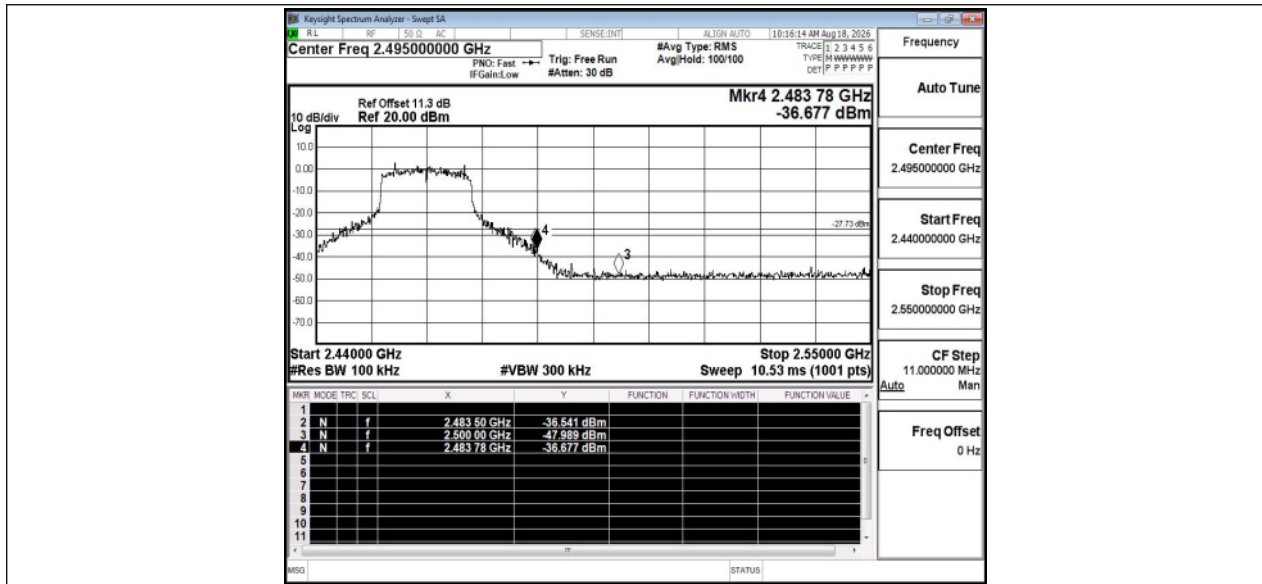
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



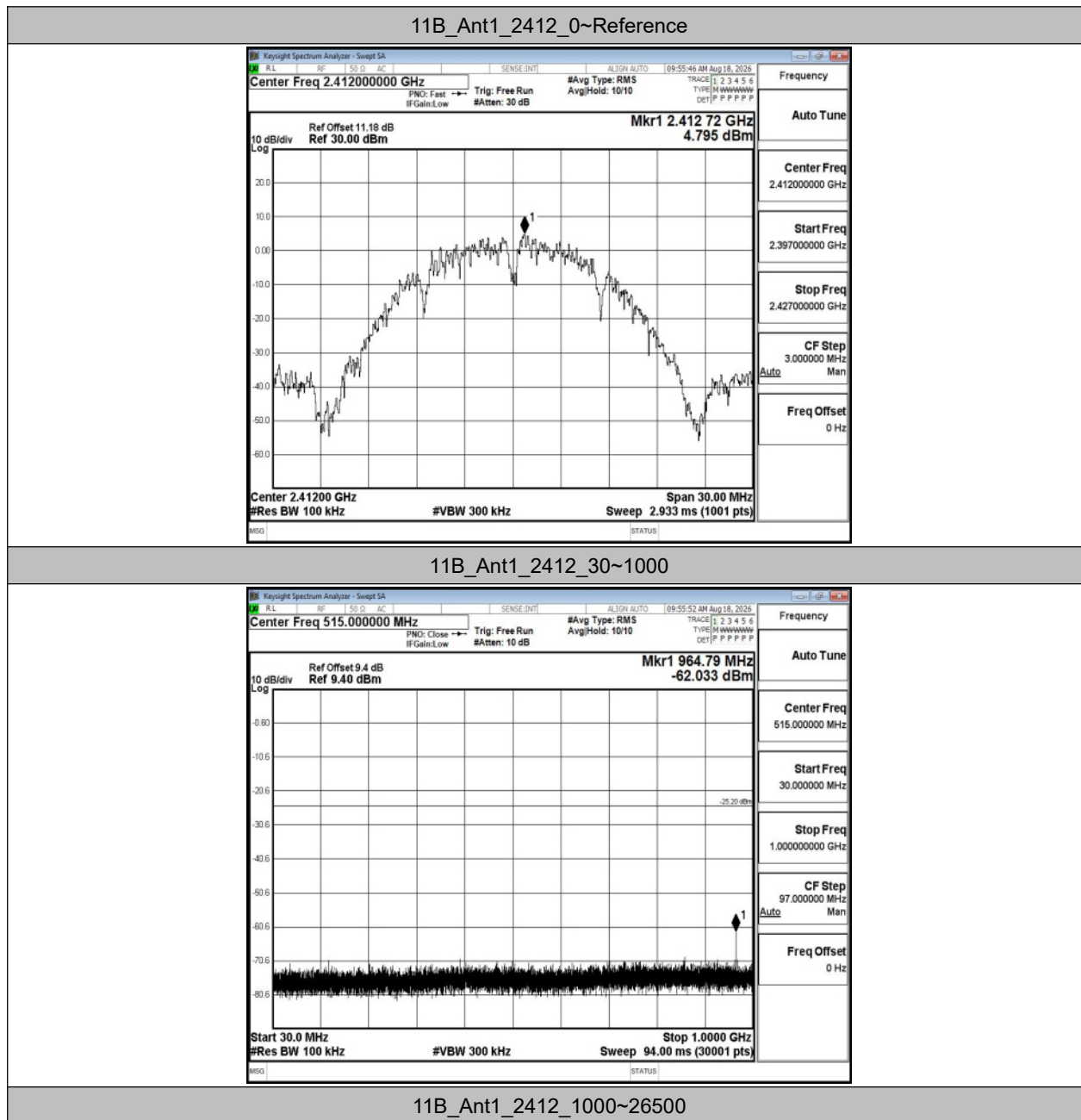
C.5 Conducted Spurious Emission

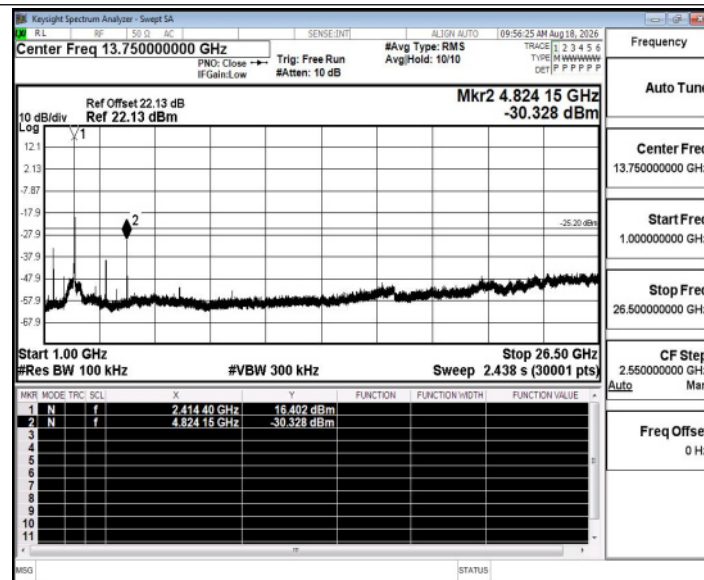
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.80	4.80	---	PASS
			30~1000	4.80	-62.03	≤-25.2	PASS
			1000~26500	4.80	-30.33	≤-25.2	PASS
		2437	Reference	3.39	3.39	---	PASS
			30~1000	3.39	-60.39	≤-26.61	PASS
			1000~26500	3.39	-31.16	≤-26.61	PASS
		2462	Reference	3.50	3.50	---	PASS
			30~1000	3.50	-59.13	≤-26.5	PASS
			1000~26500	3.50	-31.73	≤-26.5	PASS
11G	Ant1	2412	Reference	1.40	1.40	---	PASS
			30~1000	1.40	-64.57	≤-28.6	PASS
			1000~26500	1.40	-33.34	≤-28.6	PASS
		2437	Reference	1.97	1.97	---	PASS
			30~1000	1.97	-62.72	≤-28.03	PASS
			1000~26500	1.97	-38.13	≤-28.03	PASS
		2462	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-64.59	≤-29.69	PASS
			1000~26500	0.31	-31.9	≤-29.69	PASS
11N20SISO	Ant1	2412	Reference	1.53	1.53	---	PASS
			30~1000	1.53	-66.29	≤-28.47	PASS
			1000~26500	1.53	-37.1	≤-28.47	PASS
		2437	Reference	4.25	4.25	---	PASS
			30~1000	4.25	-69.48	≤-25.75	PASS
			1000~26500	4.25	-34.76	≤-25.75	PASS
		2462	Reference	3.22	3.22	---	PASS
			30~1000	3.22	-63.82	≤-26.78	PASS
			1000~26500	3.22	-38.46	≤-26.78	PASS

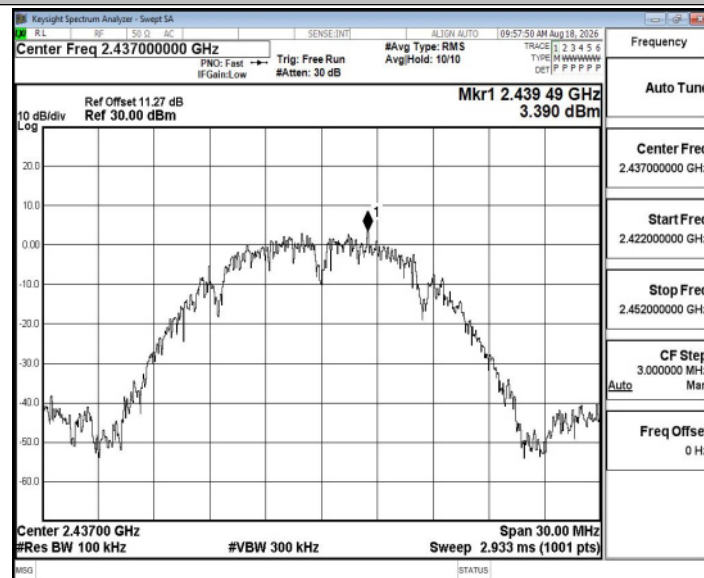
Note :offset=System attenuation +cabal loss

Test Graphs

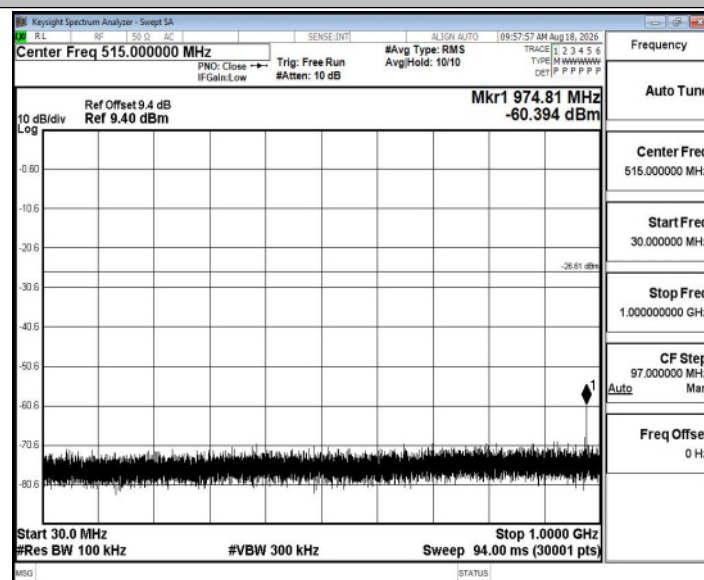




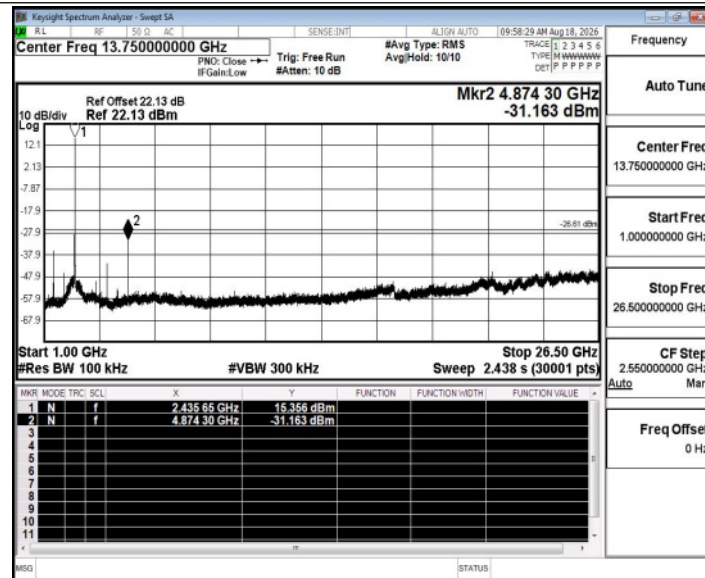
11B_Ant1_2437_0~Reference



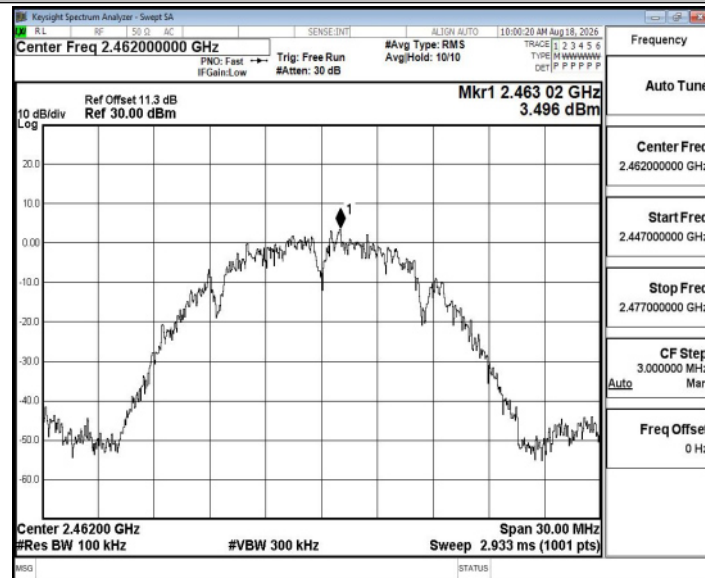
11B_Ant1_2437_30~1000



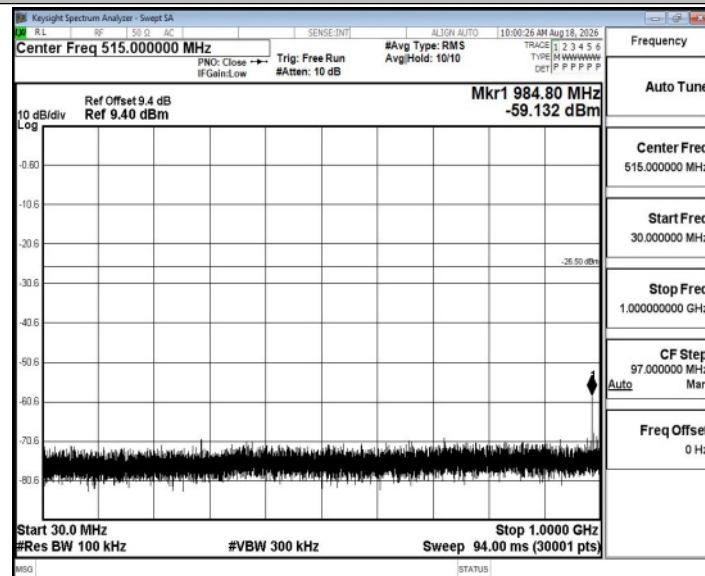
11B_Ant1_2437_1000~26500



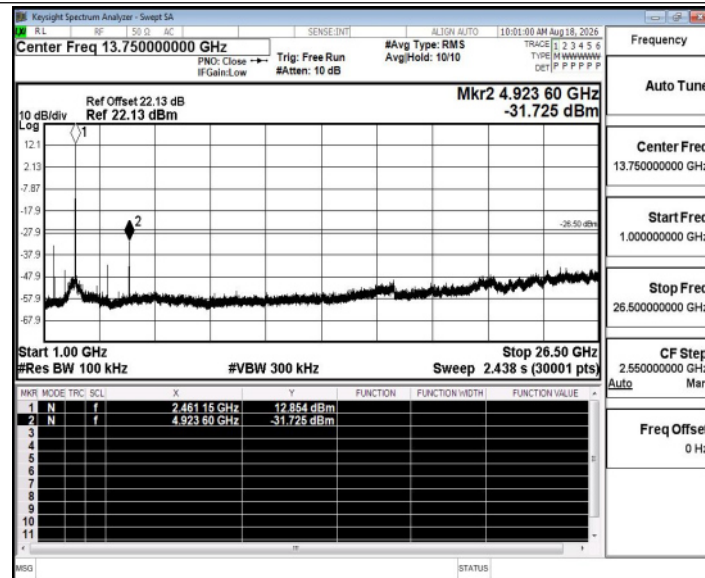
11B_Ant1_2462_0~Reference



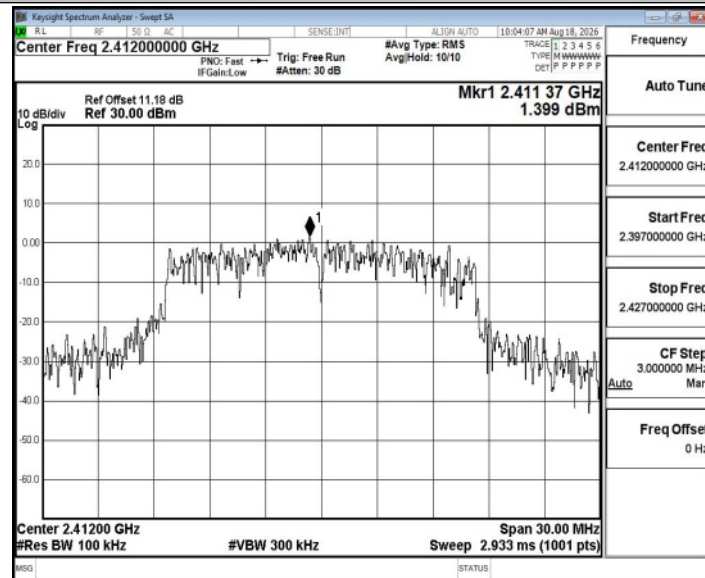
11B_Ant1_2462_30~1000



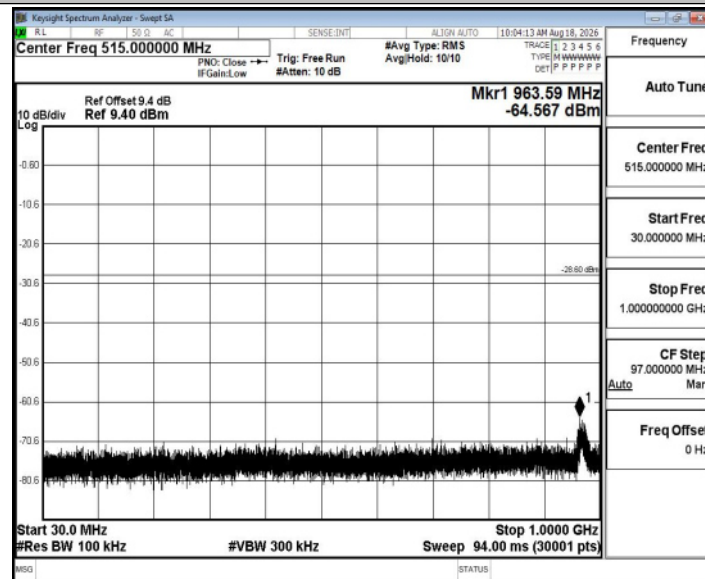
11B_Ant1_2462_1000~26500



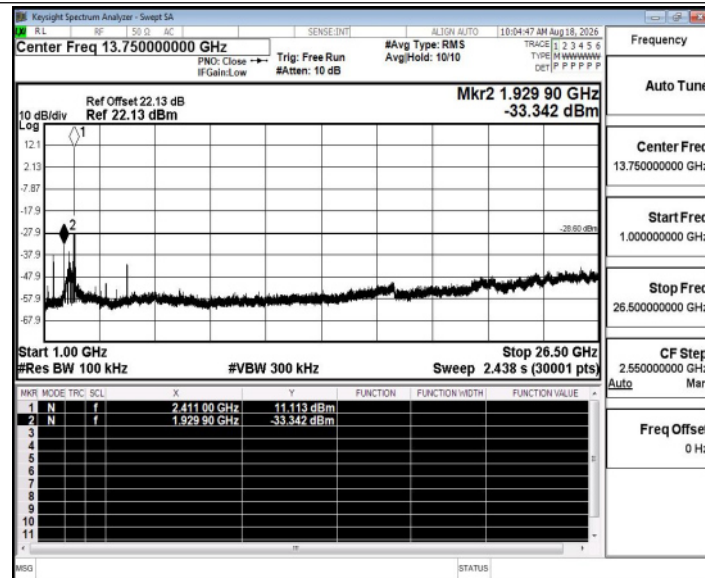
11G_Ant1_2412_0~Reference



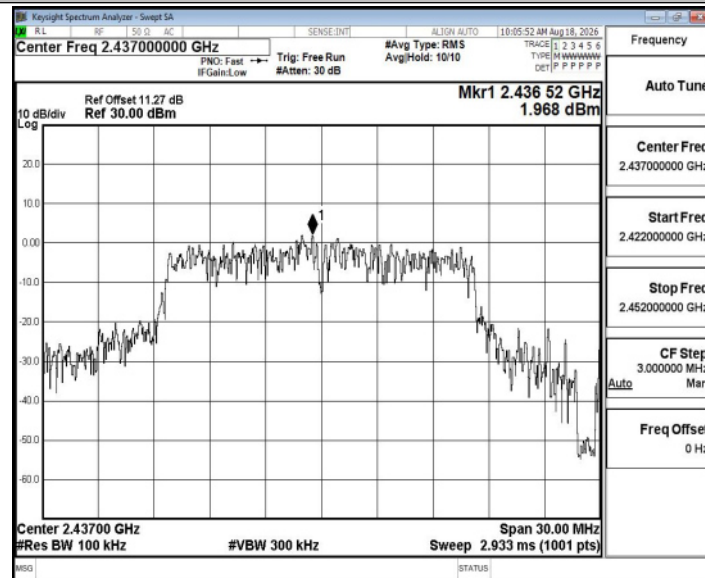
11G_Ant1_2412_30~1000



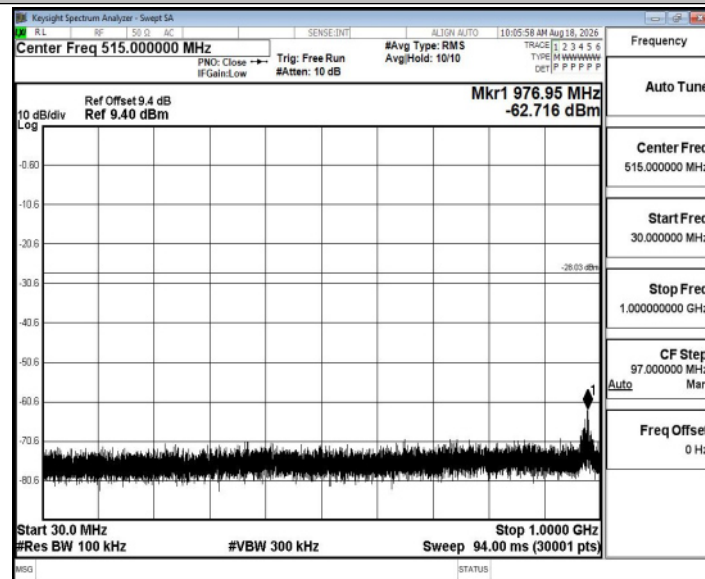
11G_Ant1_2412_1000~26500



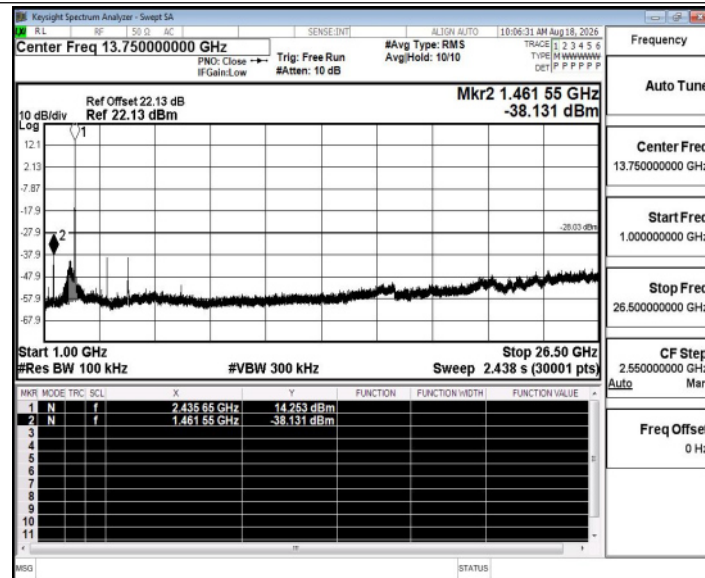
11G_Ant1_2437_0~Reference



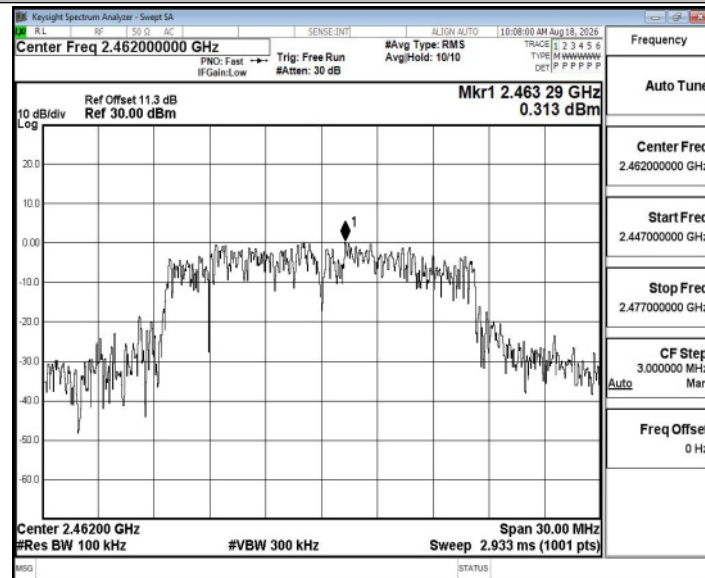
11G_Ant1_2437_30~1000



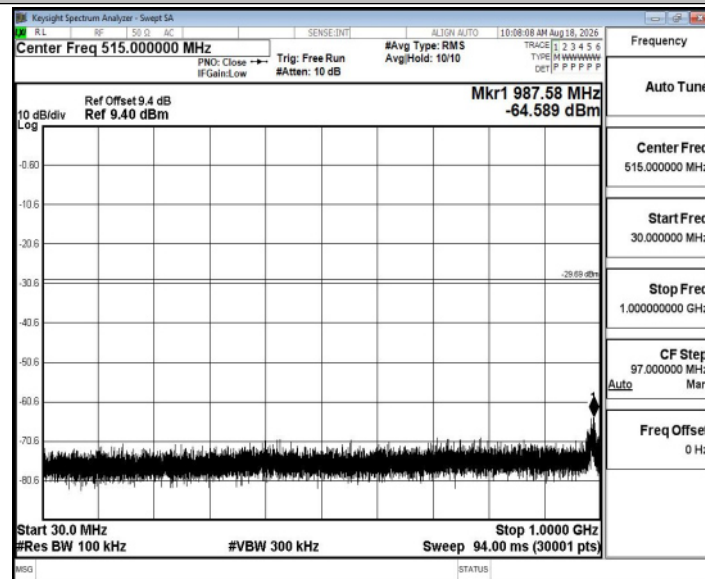
11G_Ant1_2437_1000~26500



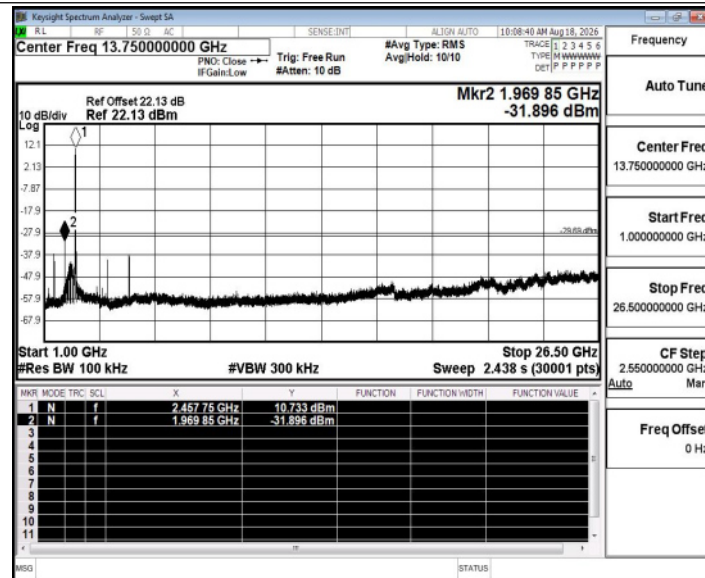
11G_Ant1_2462_0~Reference



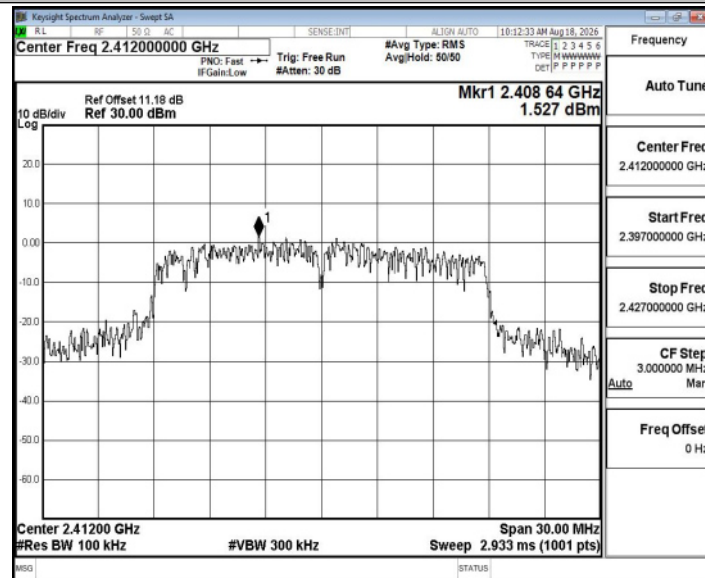
11G_Ant1_2462_30~1000



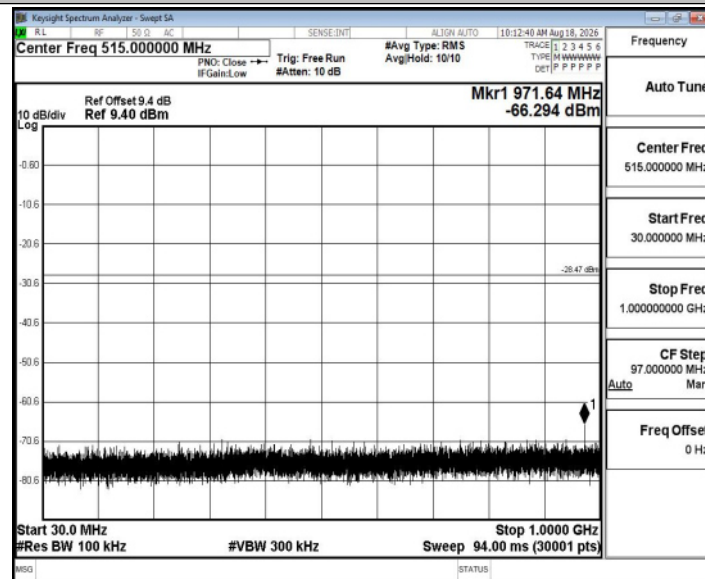
11G_Ant1_2462_1000~26500



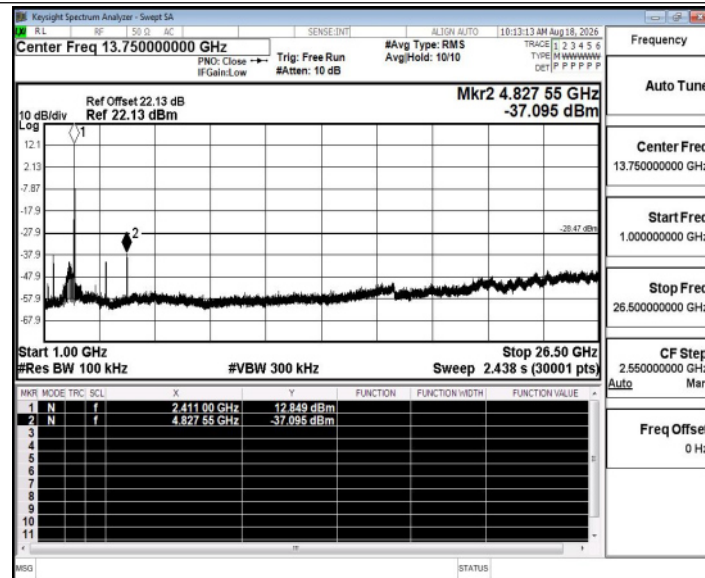
11N20SISO_Ant1_2412_0~Reference



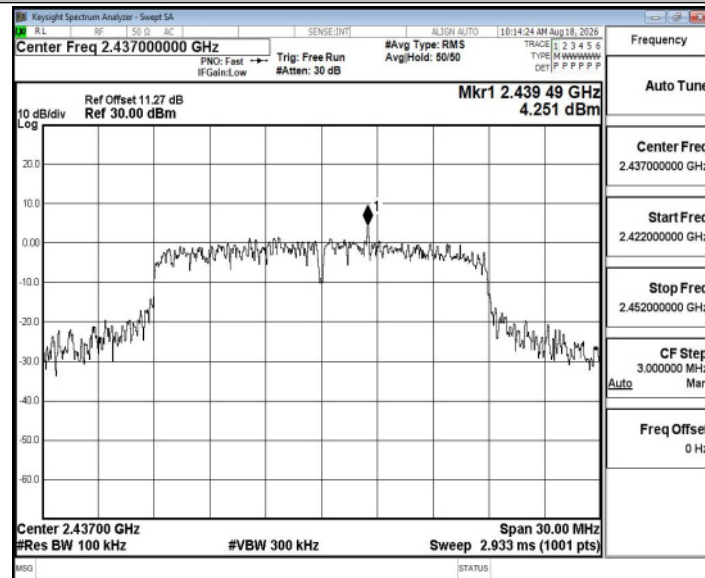
11N20SISO_Ant1_2412_30~1000



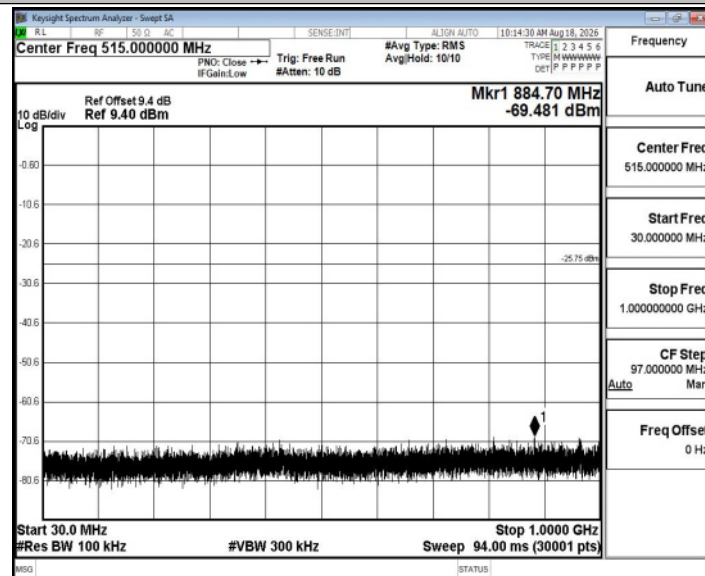
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500