

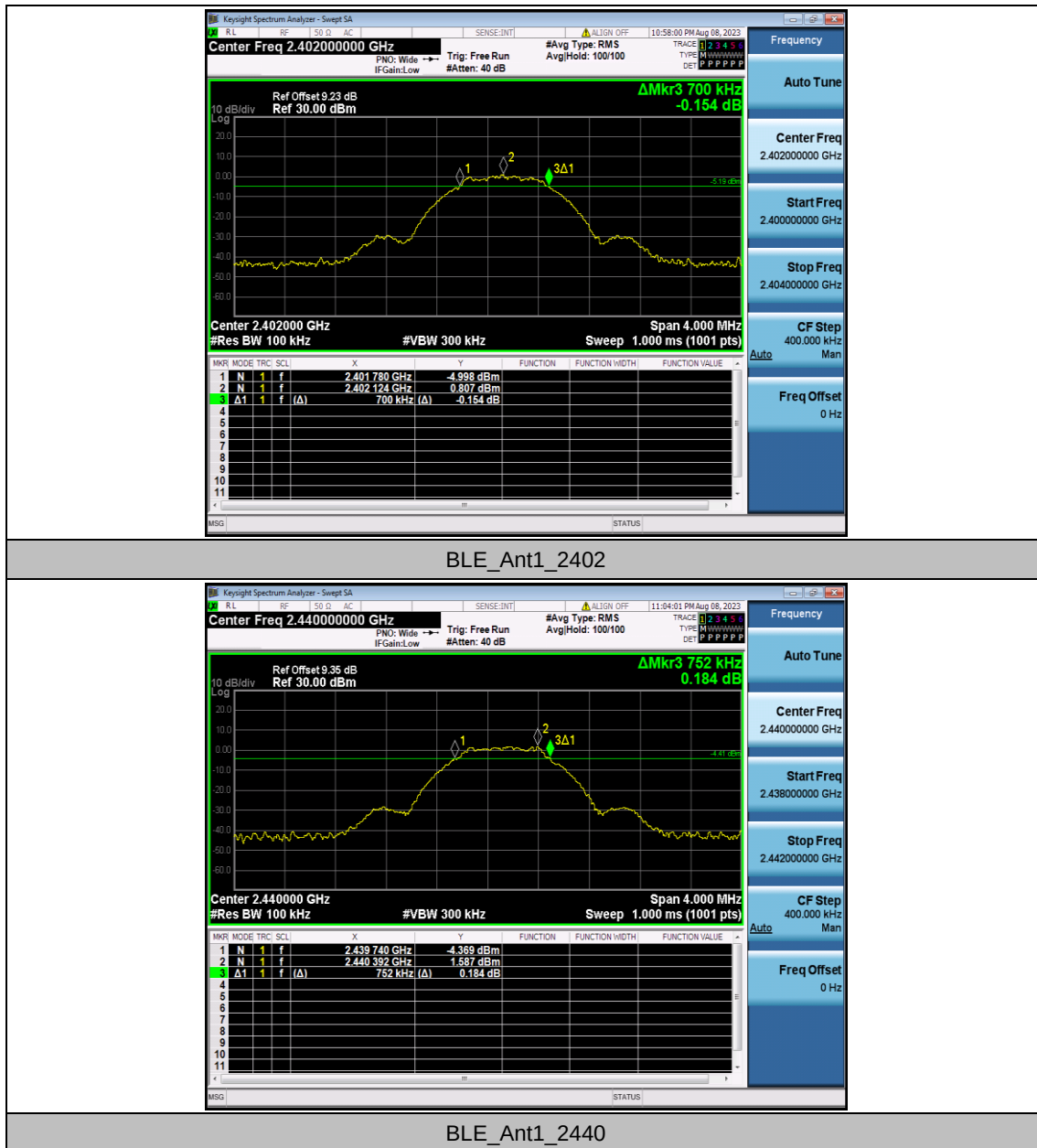
Case No. : <u>GTS20230614019-1-1</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.8.7</u>	Test Engineer: <u>Evan Ouyang</u>

Appendix A.1: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.700	2401.780	2402.480	0.5	PASS
		2440	0.752	2439.740	2440.492	0.5	PASS
		2480	0.708	2479.772	2480.480	0.5	PASS

Test Graphs



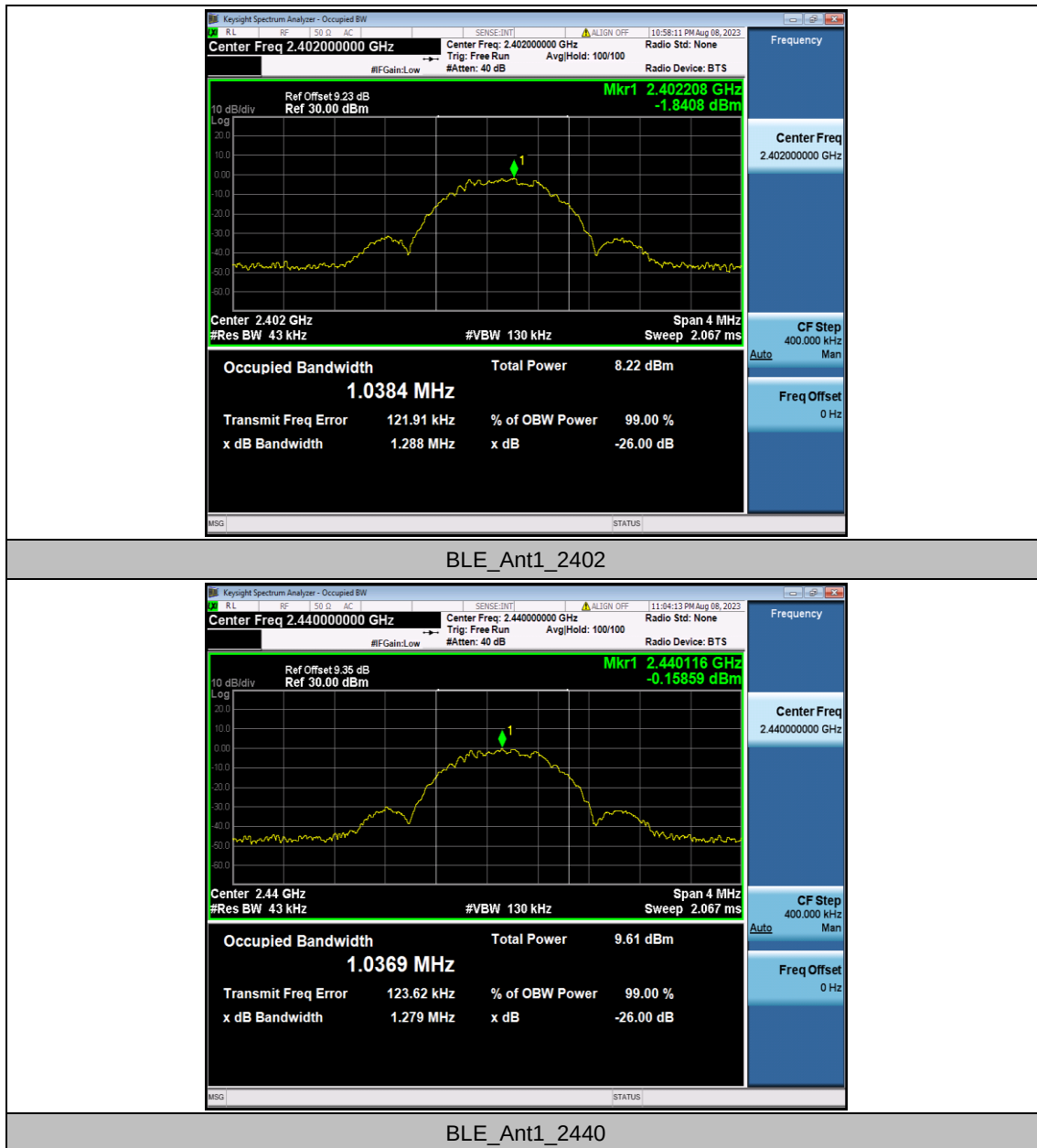


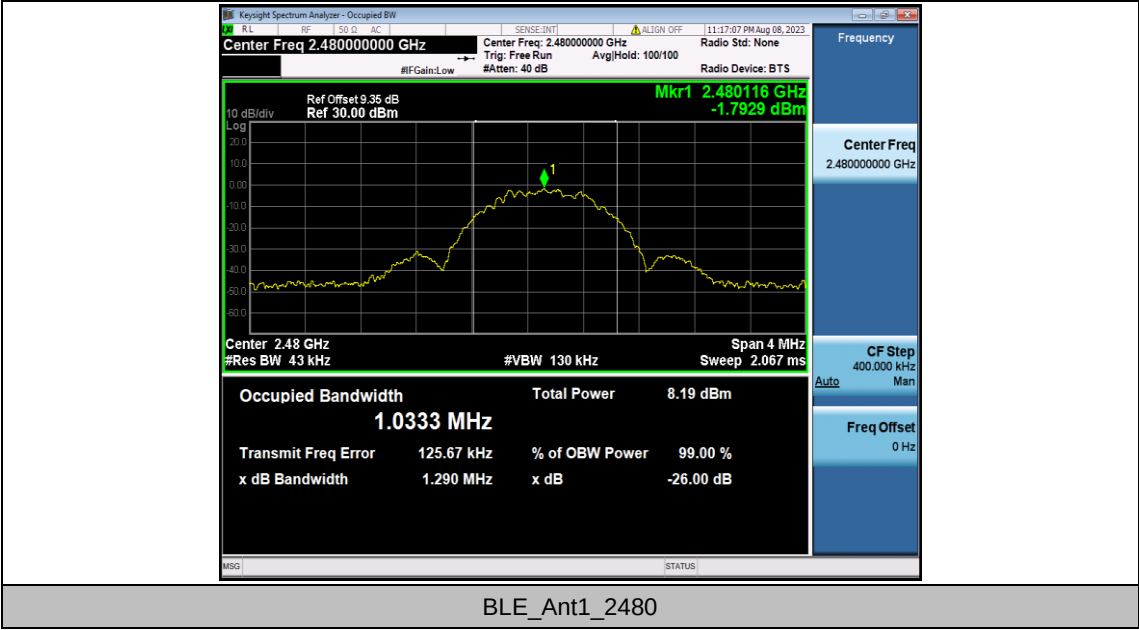
Appendix A.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0384	2401.603	2402.641	---	---
		2440	1.0369	2439.605	2440.642	---	---
		2480	1.0333	2479.609	2480.642	---	---

Test Graphs





BLE_Ant1_2480

Appendix A.3: Maximum conducted output power

Test Result Peak

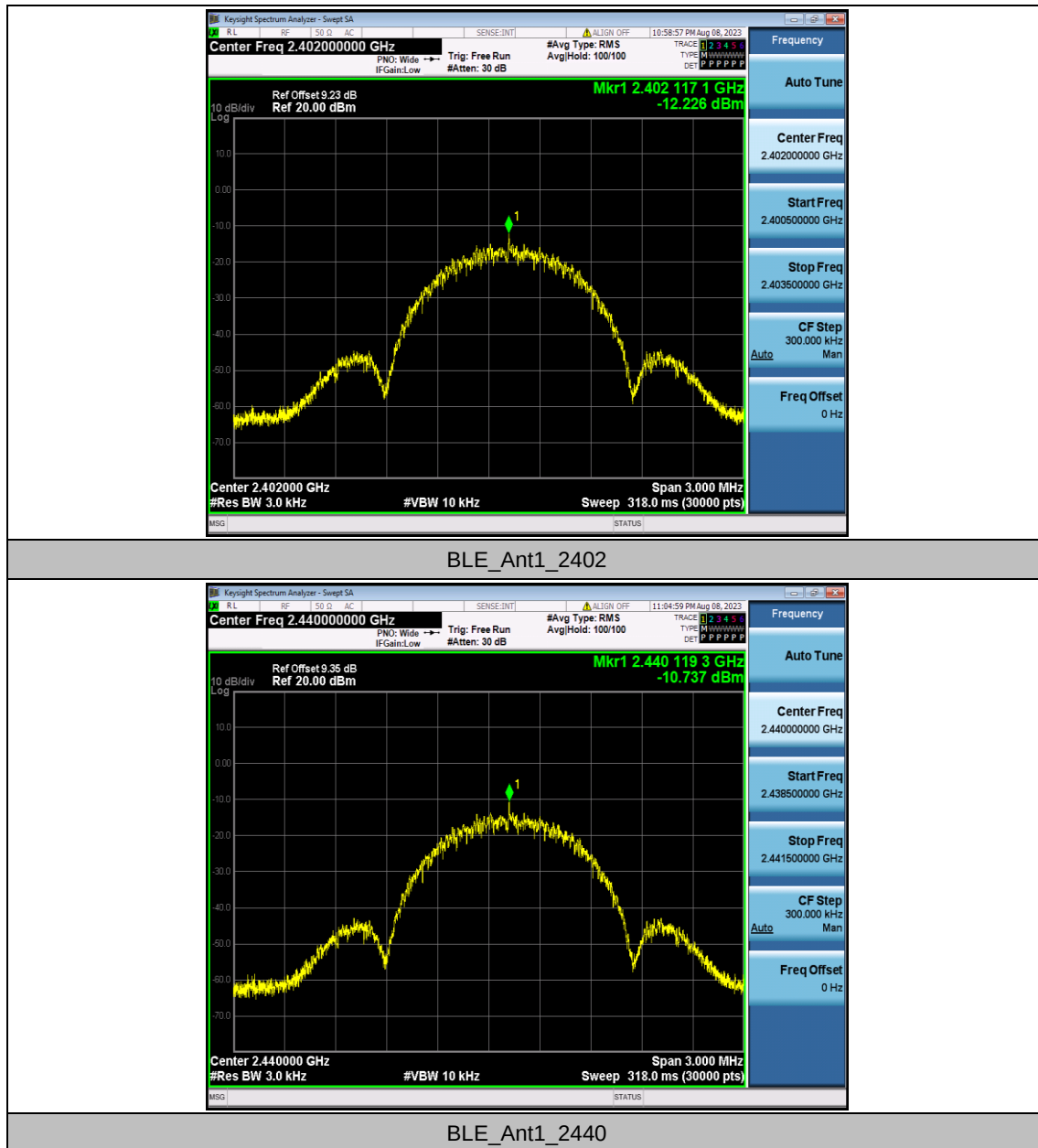
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	2.14	≤30	PASS
		2440	3.49	≤30	PASS
		2480	2.04	≤30	PASS

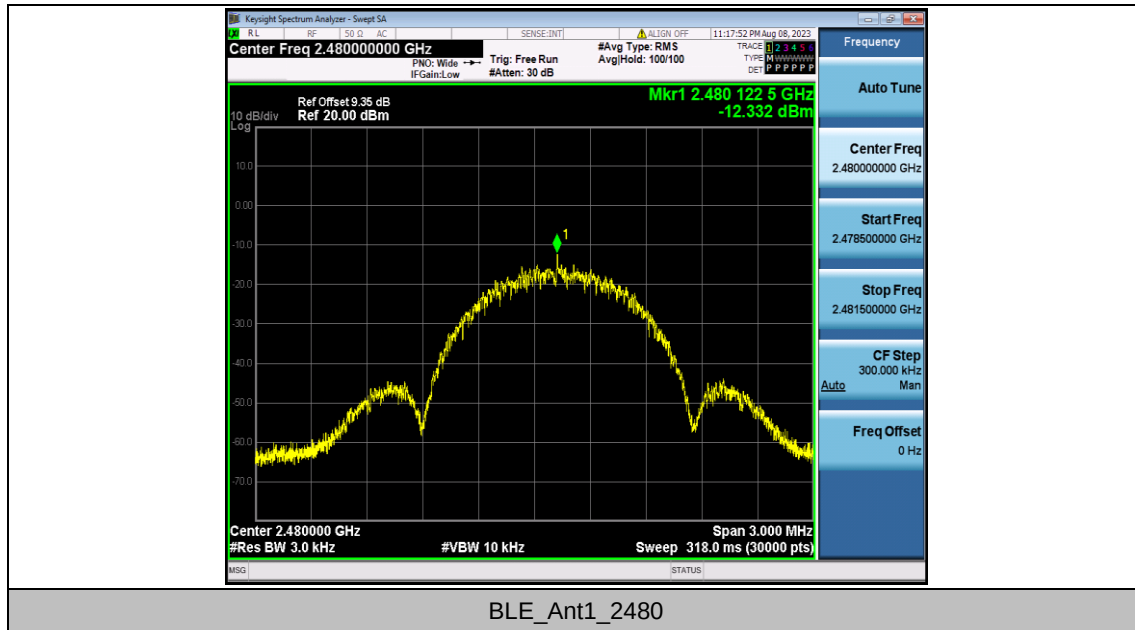
Appendix A.4: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-12.23	≤8.00	PASS
		2440	-10.74	≤8.00	PASS
		2480	-12.33	≤8.00	PASS

Test Graphs



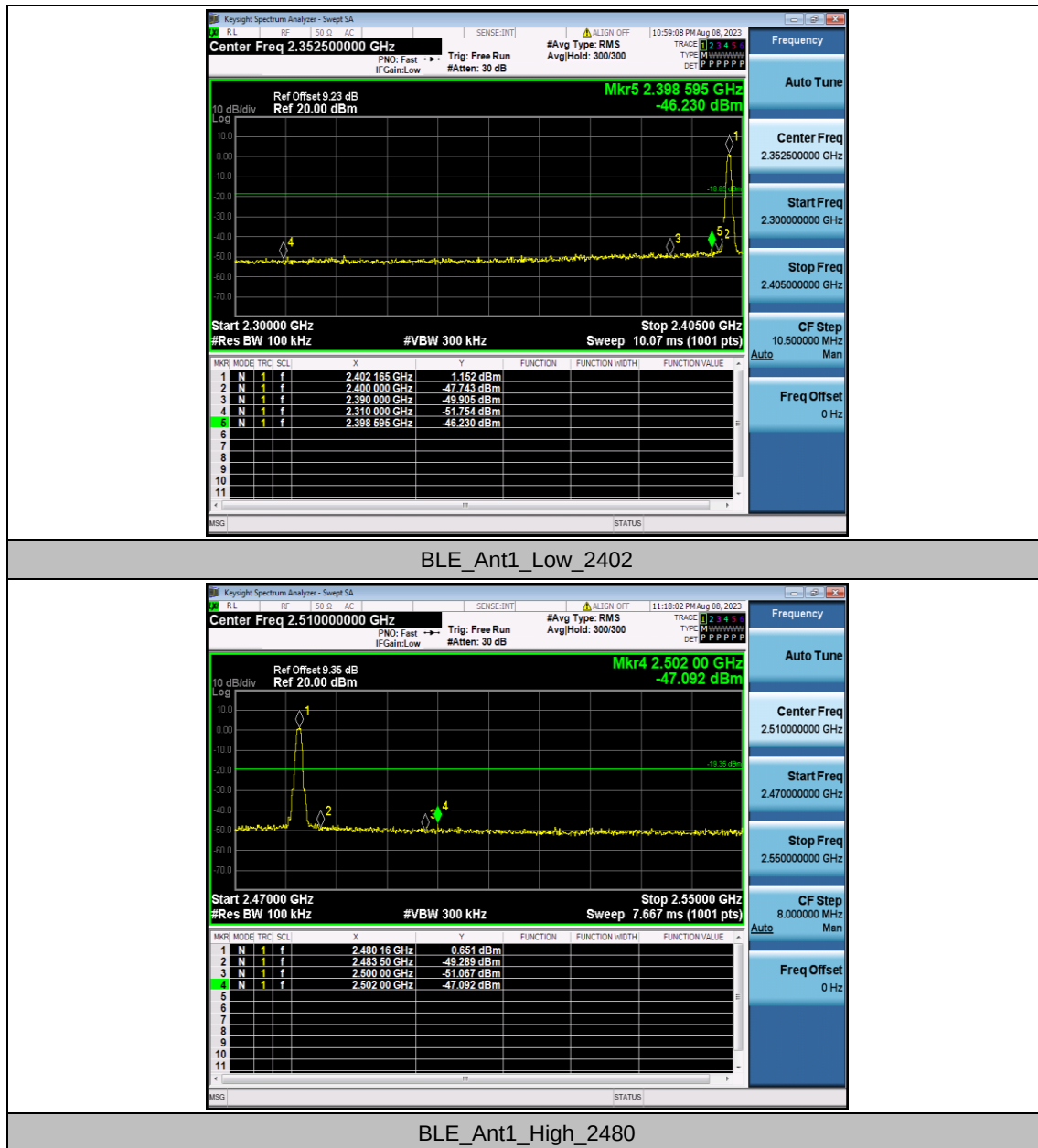


Appendix A.5: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	1.15	-46.23	≤-18.85	PASS
		High	2480	0.65	-47.09	≤-19.35	PASS

Test Graphs

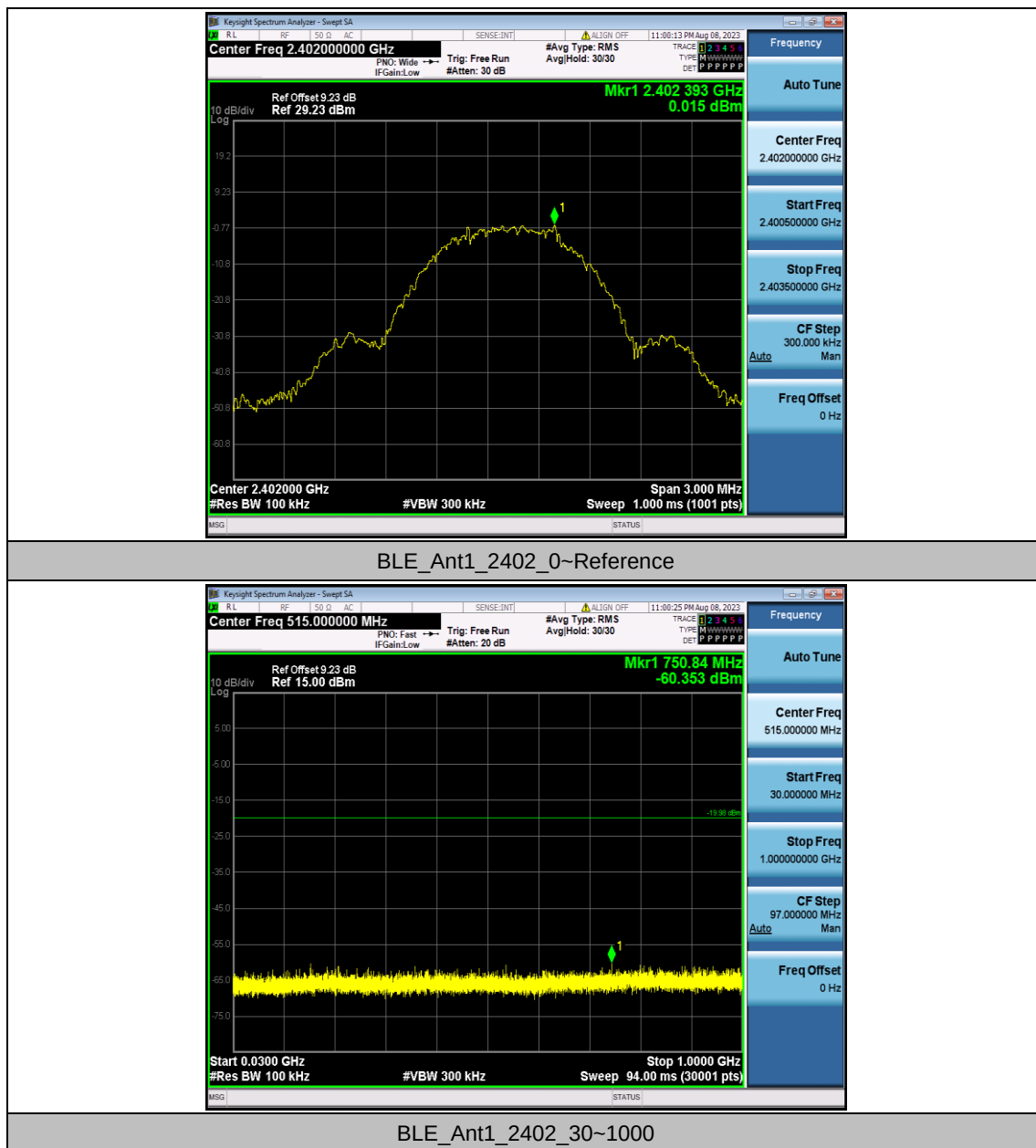


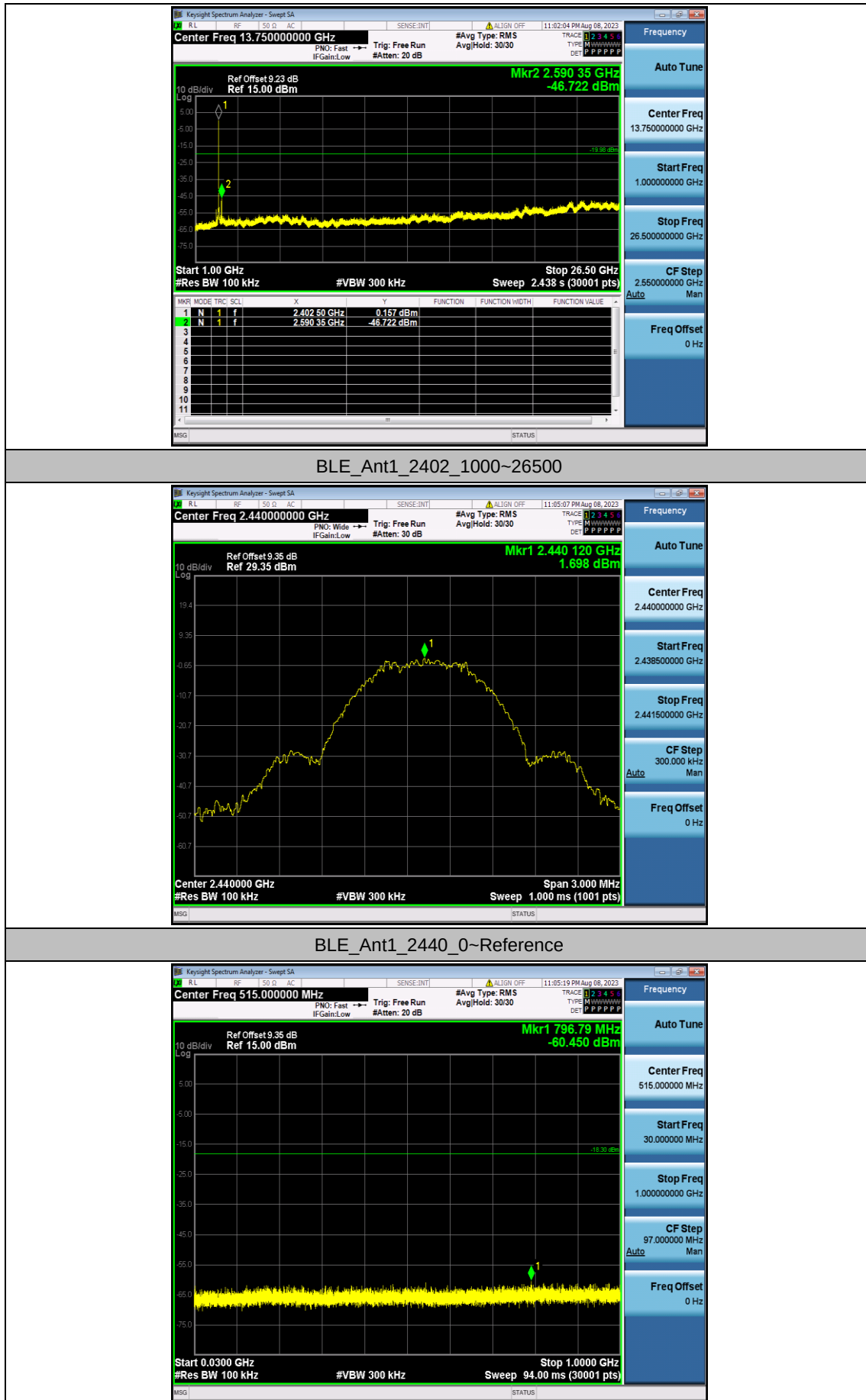
Appendix A.6: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	0.02	0.02	---	PASS
			30~1000	0.02	-60.35	≤ -19.98	PASS
			1000~26500	0.02	-46.72	≤ -19.98	PASS
		2440	Reference	1.70	1.70	---	PASS
			30~1000	1.70	-60.45	≤ -18.3	PASS
			1000~26500	1.70	-47.45	≤ -18.3	PASS
		2480	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-60.47	≤ -19.37	PASS
			1000~26500	0.63	-47.27	≤ -19.37	PASS

Test Graphs





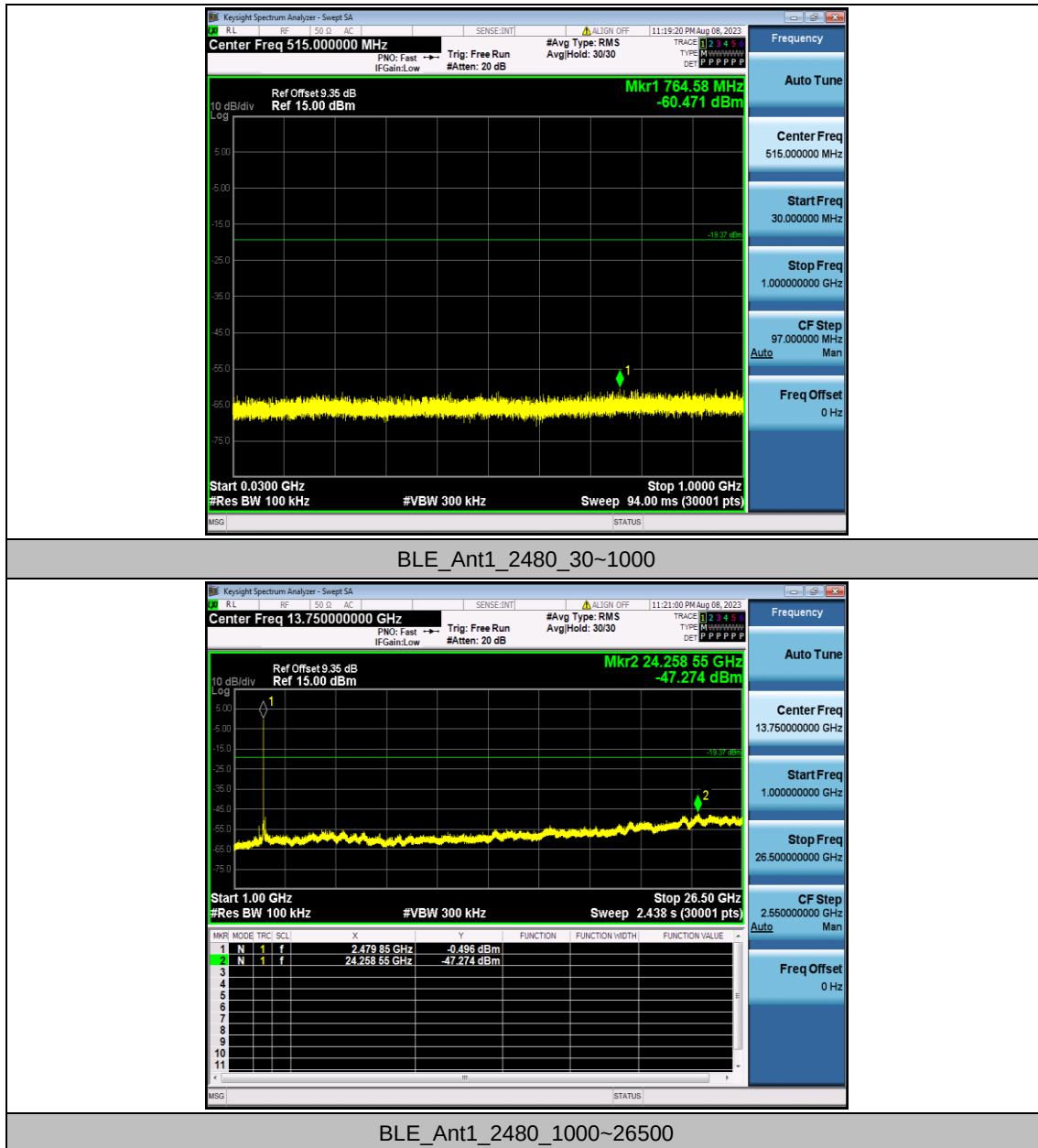
BLE_Ant1_2440_30~1000



BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



Appendix A.7: Emissions in Restricted Bands

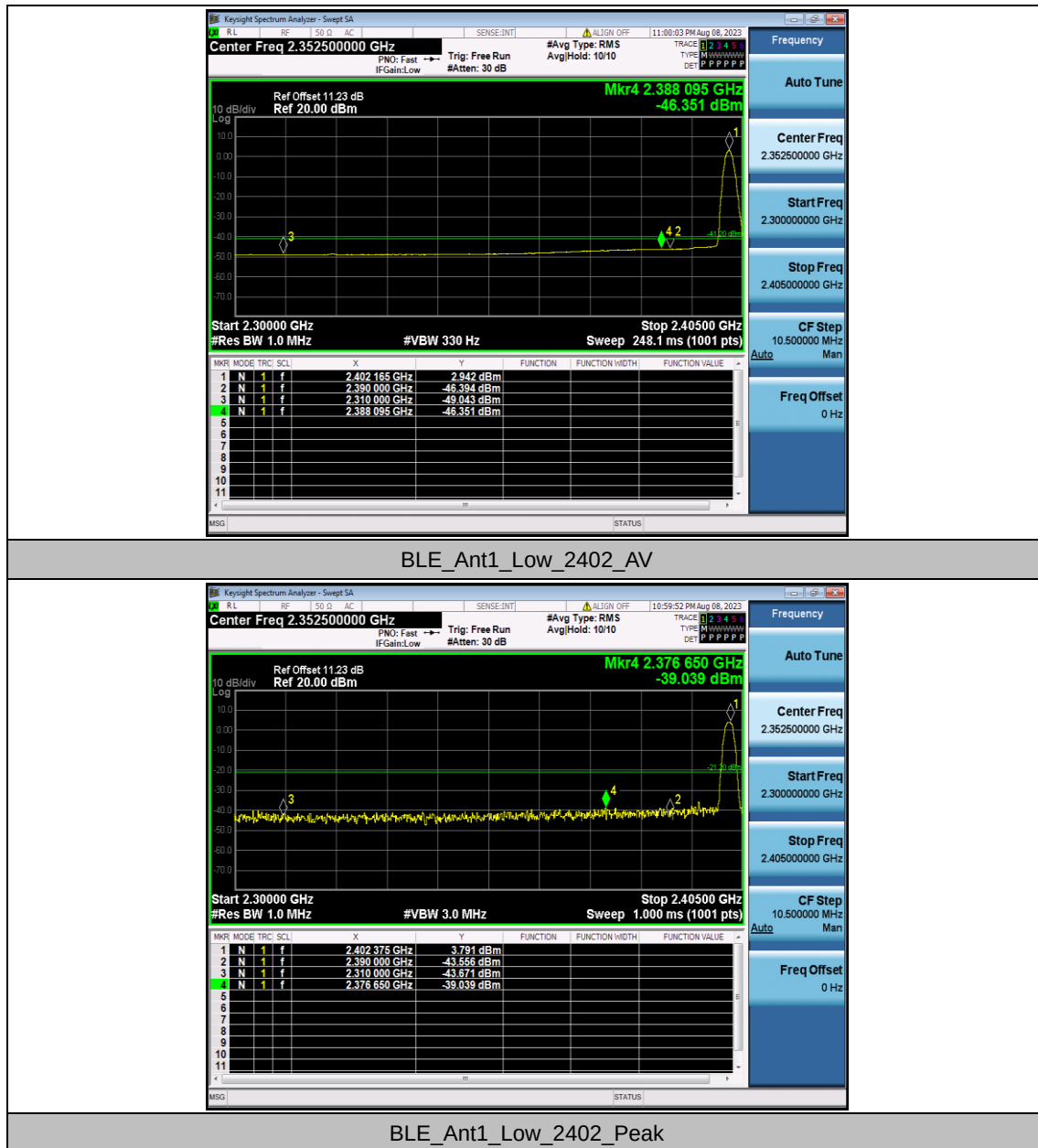
Test Result

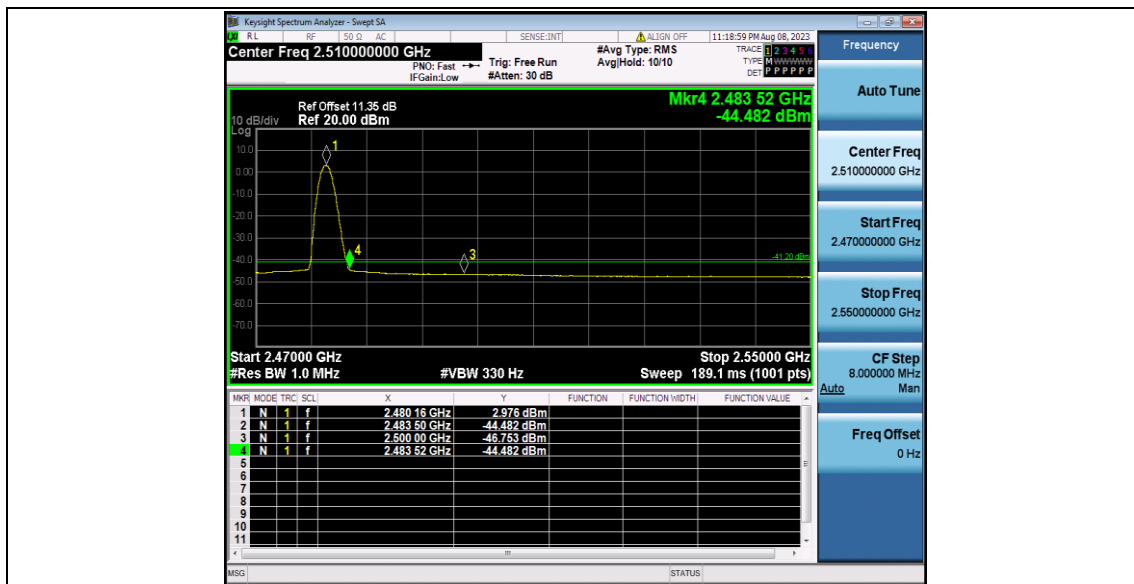
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.04	≤-41.20	46.16	≤54	PASS
				AV	2388.095	-46.35	≤-41.20	48.85	≤54	PASS
				AV	2390.000	-46.39	≤-41.20	48.81	≤54	PASS
				Peak	2310.000	-43.67	≤-21.20	51.53	≤74	PASS
				Peak	2376.650	-39.04	≤-21.20	56.16	≤74	PASS
				Peak	2390.000	-43.56	≤-21.20	51.64	≤74	PASS
		High	2480	AV	2483.500	-44.48	≤-41.20	50.72	≤54	PASS
				AV	2483.520	-44.48	≤-41.20	50.72	≤54	PASS
				AV	2500.000	-46.75	≤-41.20	48.45	≤54	PASS
				Peak	2483.500	-38.44	≤-21.20	56.76	≤74	PASS
				Peak	2493.920	-36.29	≤-21.20	58.91	≤74	PASS
				Peak	2500.000	-43.07	≤-21.20	52.13	≤74	PASS

Note:

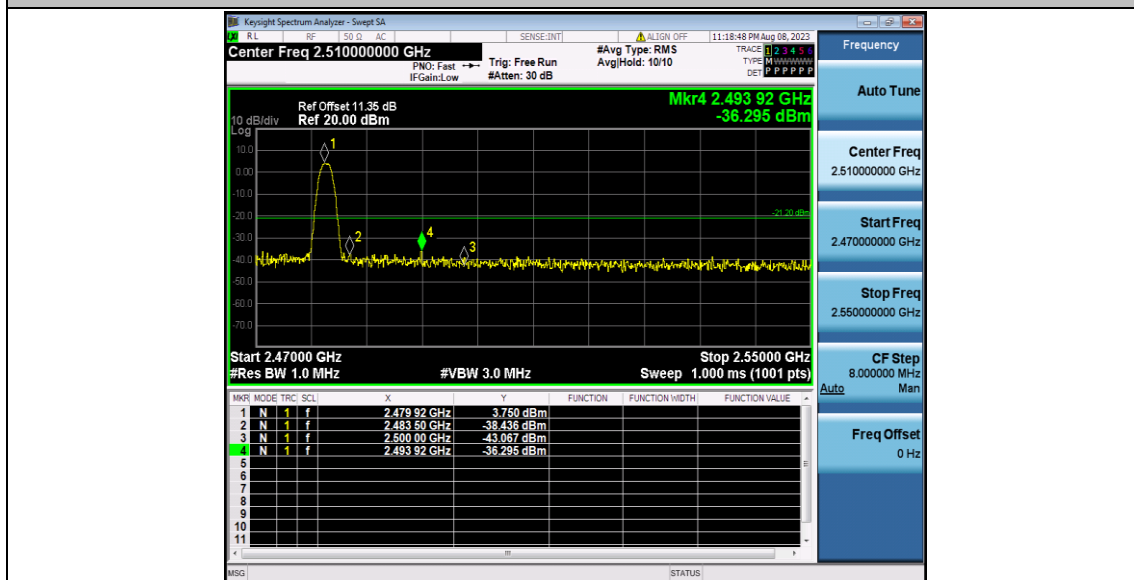
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak