

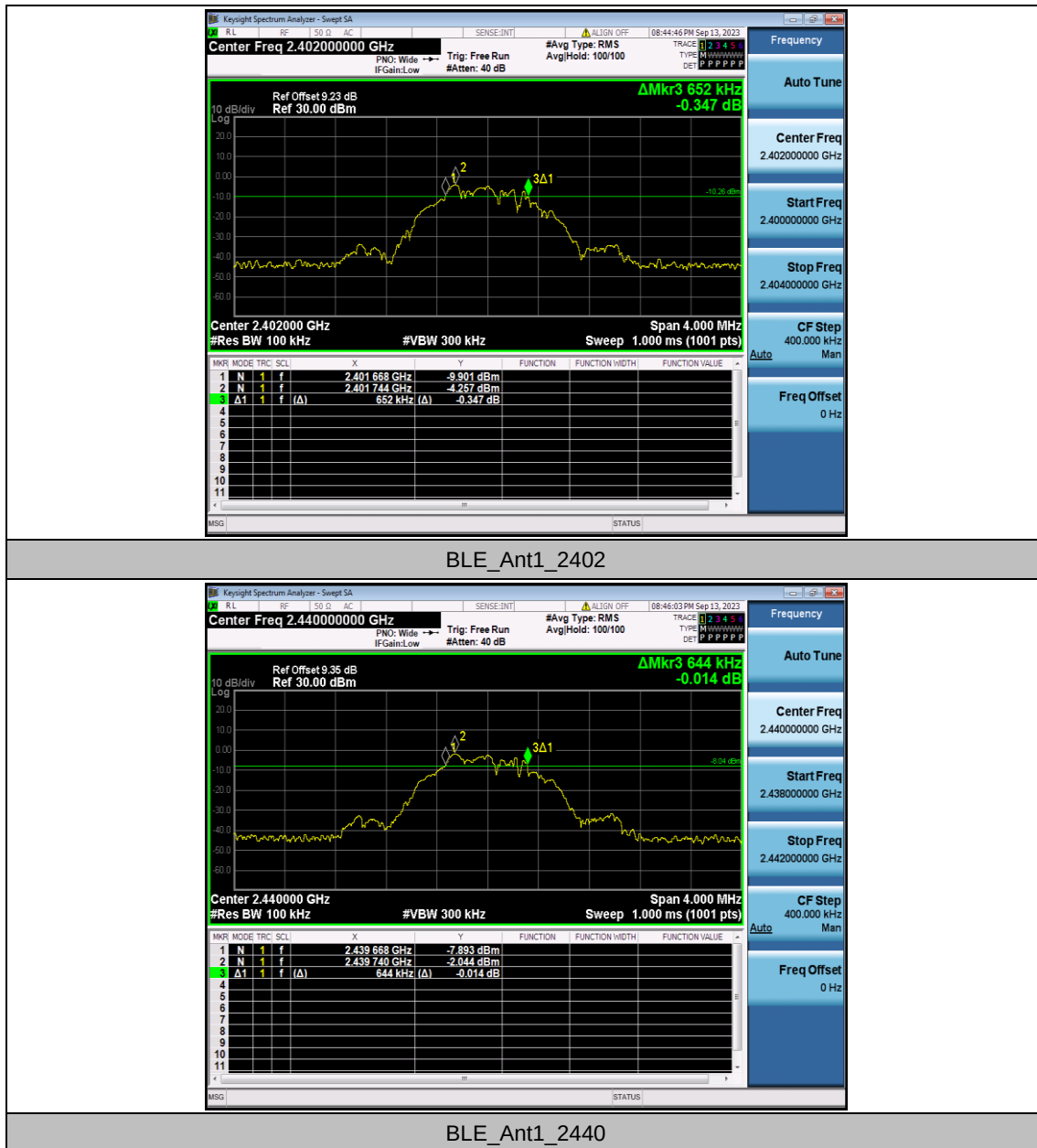
Case No. : <u>GTS20230628002-1-25</u>	
Ambient Condition: <u>23</u> °C, <u>53</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.9.9</u>	Test Engineer: <u>Evan ouyang</u>

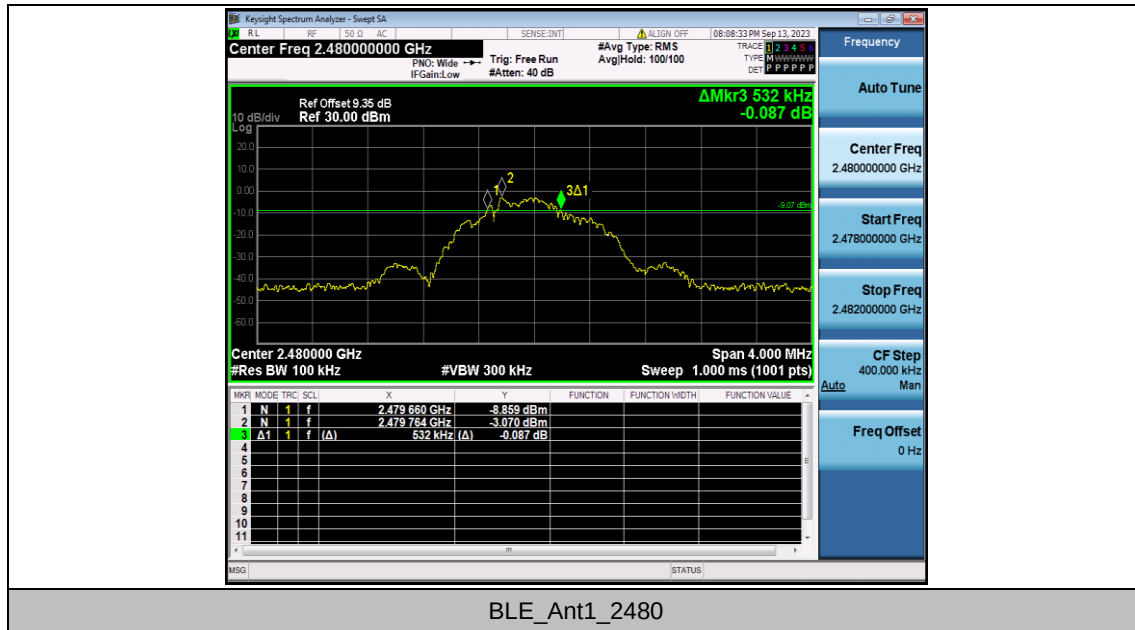
Appendix B.1: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.652	2401.668	2402.320	0.5	PASS
		2440	0.644	2439.668	2440.312	0.5	PASS
		2480	0.532	2479.660	2480.192	0.5	PASS

Test Graphs



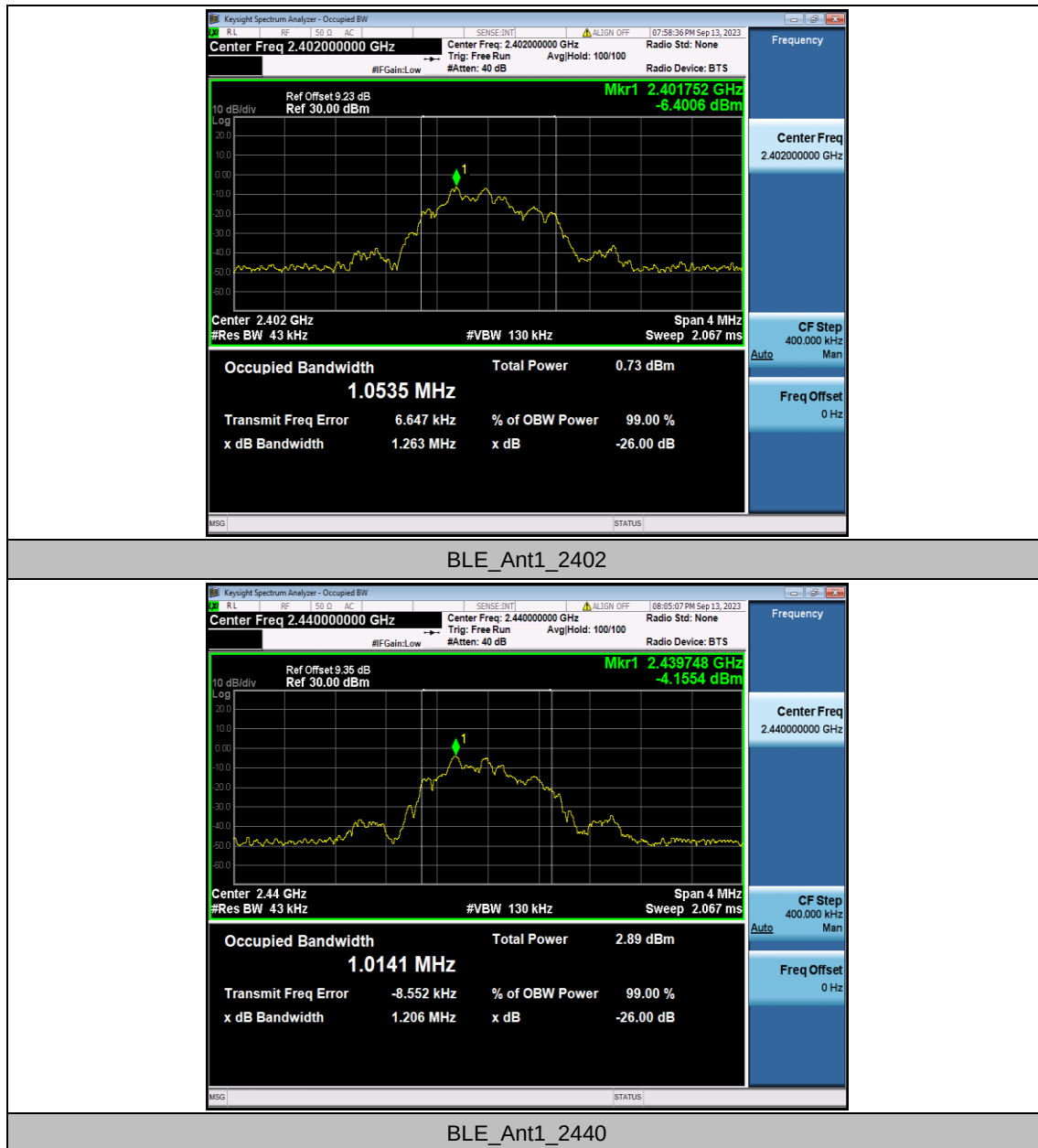


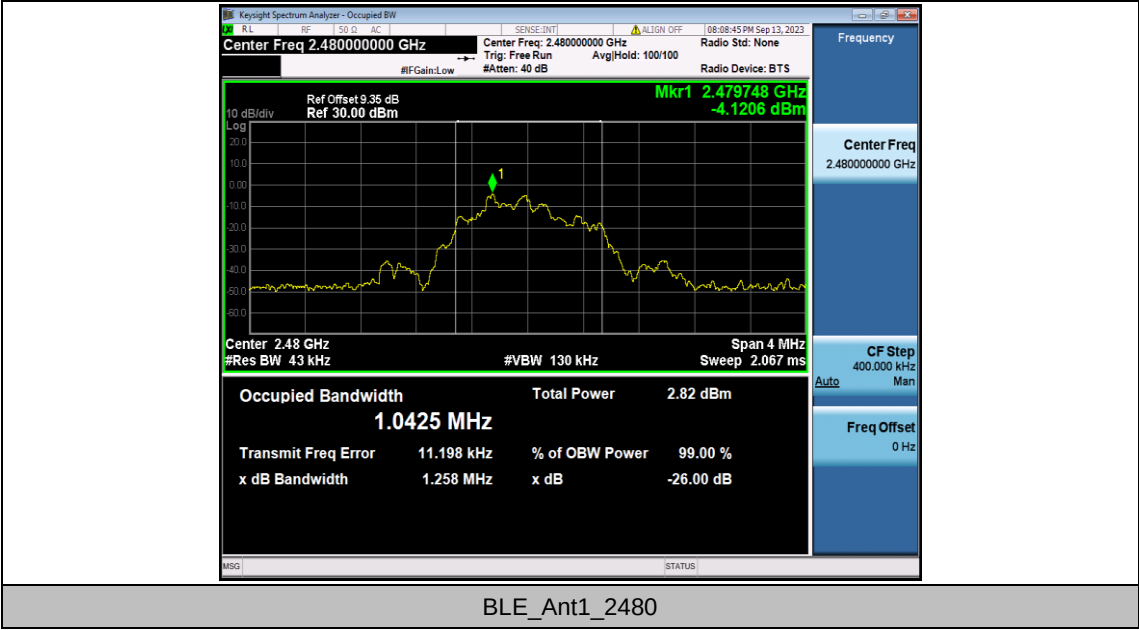
Appendix B.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0535	2401.480	2402.533	---	---
		2440	1.0141	2439.484	2440.499	---	---
		2480	1.0425	2479.490	2480.532	---	---

Test Graphs





Appendix B.3: Maximum conducted output power

Test Result Peak

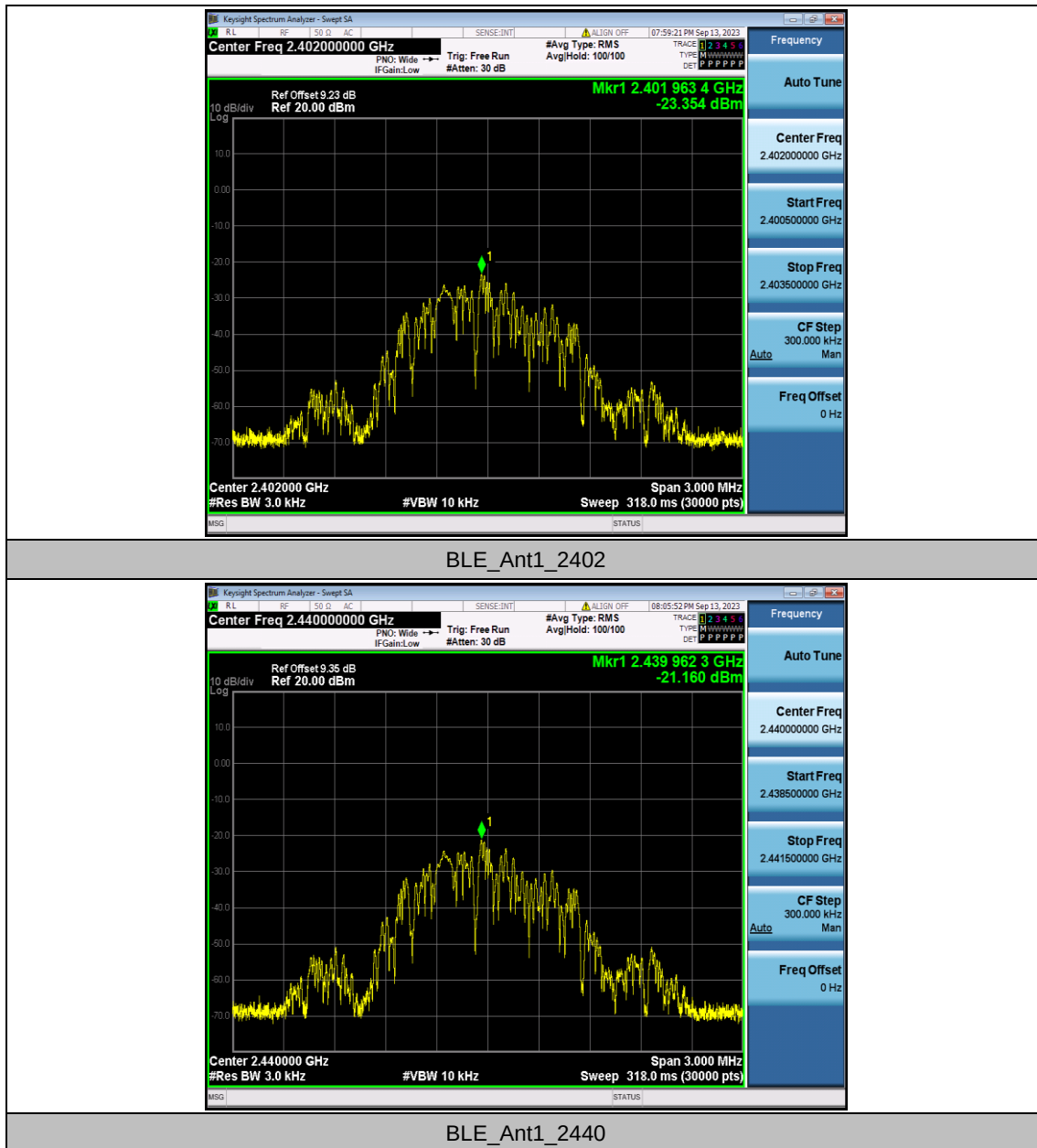
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-4.17	≤30	PASS
		2440	-2.12	≤30	PASS
		2480	-2.04	≤30	PASS

Appendix B.4: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-23.35	≤8.00	PASS
		2440	-21.16	≤8.00	PASS
		2480	-21.09	≤8.00	PASS

Test Graphs



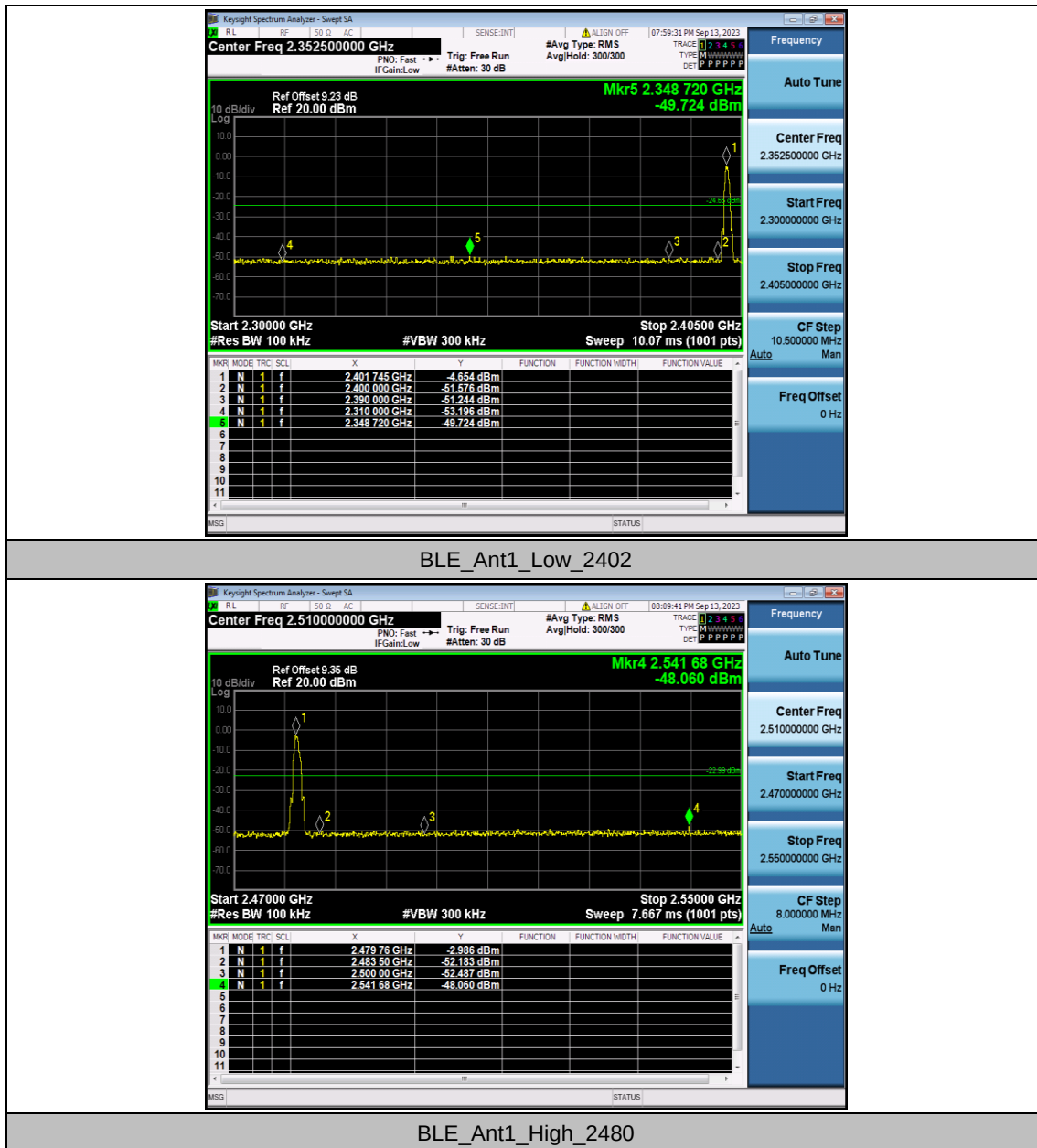


Appendix B.5: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-4.65	-49.72	$\leq$ -24.65	PASS
		High	2480	-2.99	-48.06	$\leq$ -22.99	PASS

Test Graphs

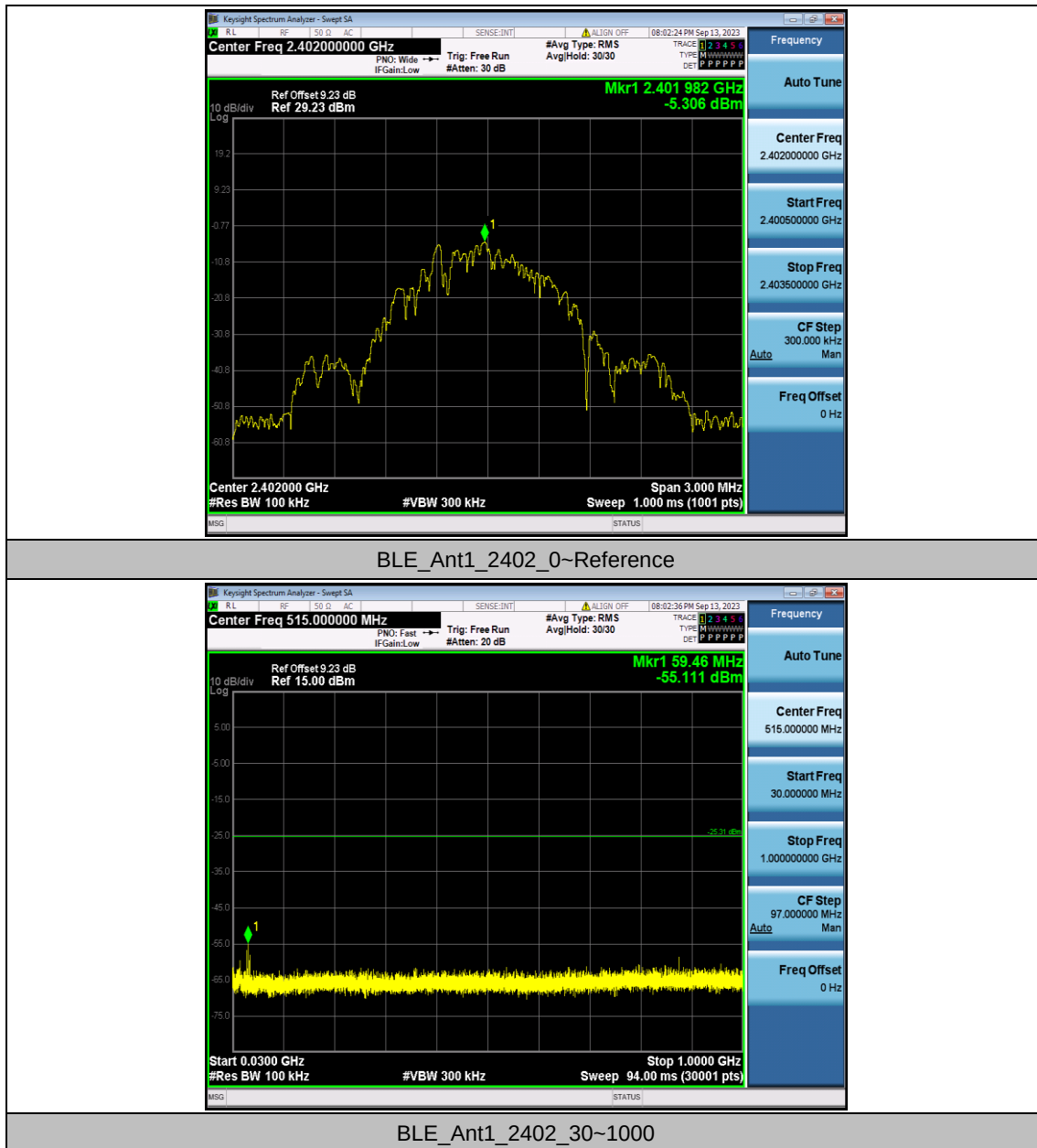


Appendix B.6: Conducted Spurious Emission

Test Result

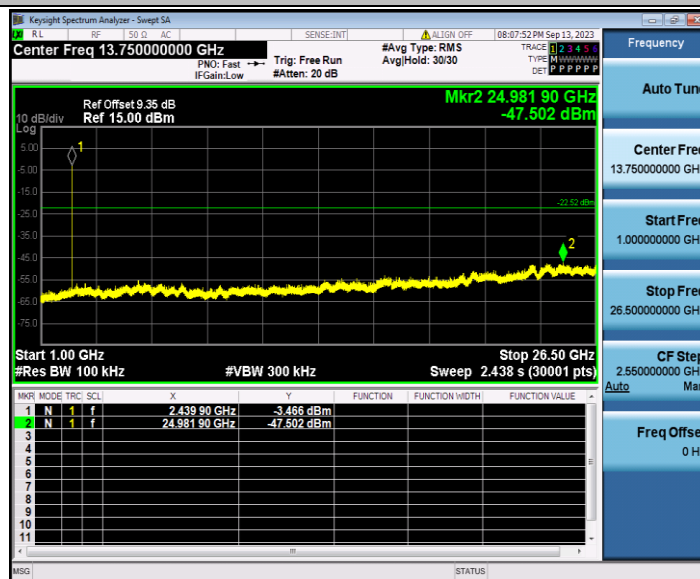
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-5.31	-5.31	---	PASS
			30~1000	-5.31	-55.11	≤ -25.31	PASS
			1000~26500	-5.31	-47.64	≤ -25.31	PASS
		2440	Reference	-2.52	-2.52	---	PASS
			30~1000	-2.52	-60.21	≤ -22.52	PASS
			1000~26500	-2.52	-47.5	≤ -22.52	PASS
		2480	Reference	-2.73	-2.73	---	PASS
			30~1000	-2.73	-60.28	≤ -22.73	PASS
			1000~26500	-2.73	-47.7	≤ -22.73	PASS

Test Graphs





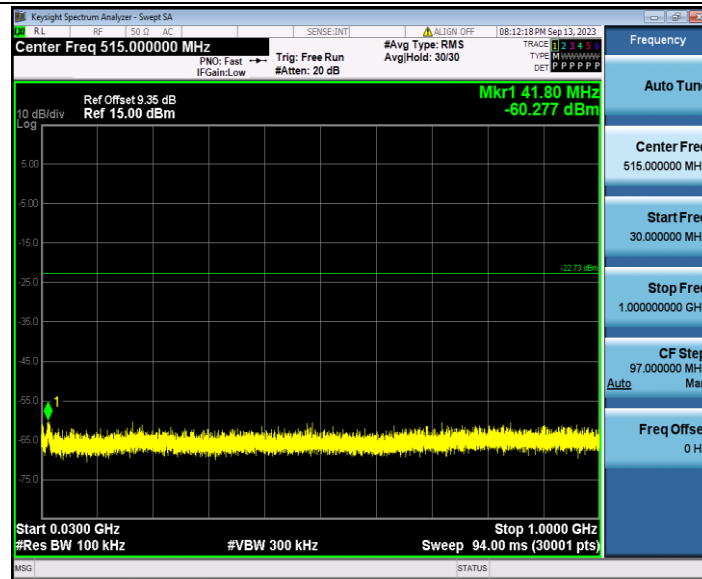
BLE_Ant1_2440_30~1000



BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500

Appendix B.7: Emissions in Restricted Bands

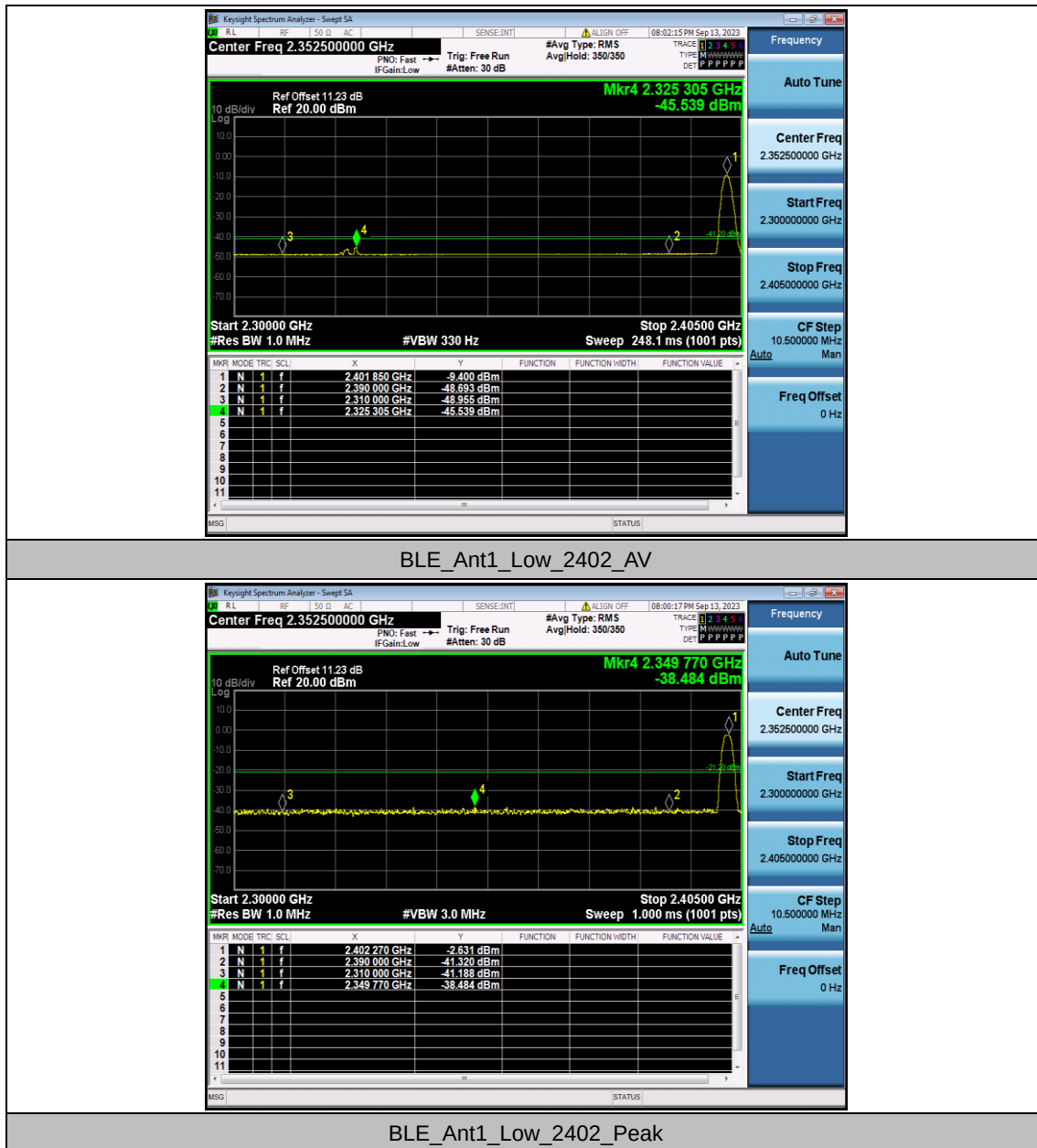
Test Result

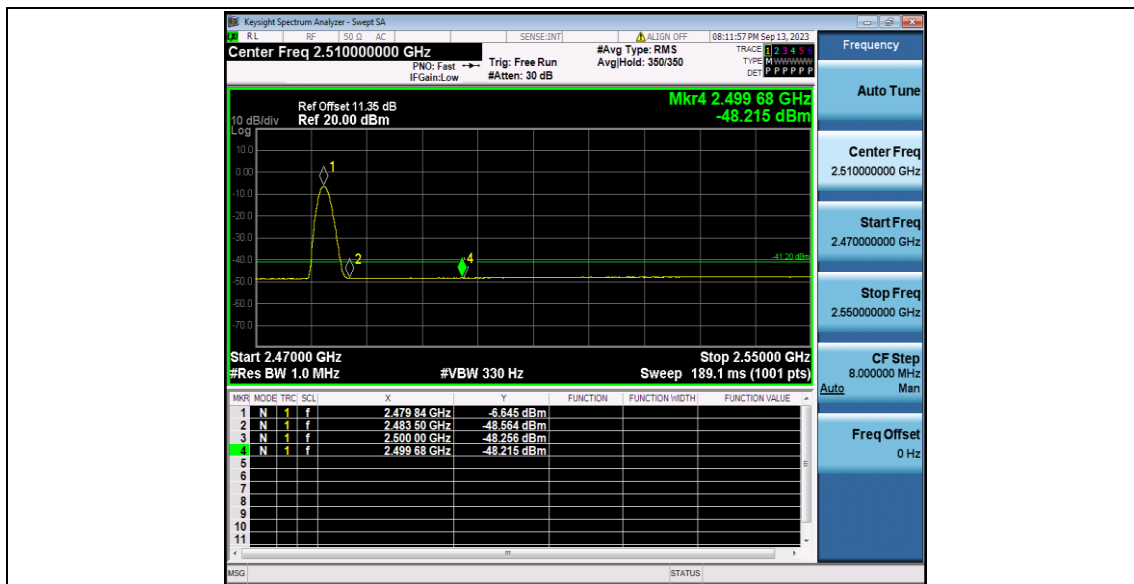
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-48.96	≤-41.20	46.24	≤54	PASS
				AV	2325.305	-45.54	≤-41.20	49.66	≤54	PASS
				AV	2390.000	-48.69	≤-41.20	46.51	≤54	PASS
				Peak	2310.000	-41.19	≤-21.20	54.01	≤74	PASS
				Peak	2349.770	-38.48	≤-21.20	56.72	≤74	PASS
				Peak	2390.000	-41.32	≤-21.20	53.88	≤74	PASS
		High	2480	AV	2483.500	-48.56	≤-41.20	46.64	≤54	PASS
				AV	2499.680	-48.21	≤-41.20	46.99	≤54	PASS
				AV	2500.000	-48.26	≤-41.20	46.94	≤54	PASS
				Peak	2483.500	-40.5	≤-21.20	54.70	≤74	PASS
				Peak	2495.760	-37.93	≤-21.20	57.27	≤74	PASS
				Peak	2500.000	-39.51	≤-21.20	55.69	≤74	PASS

Note:

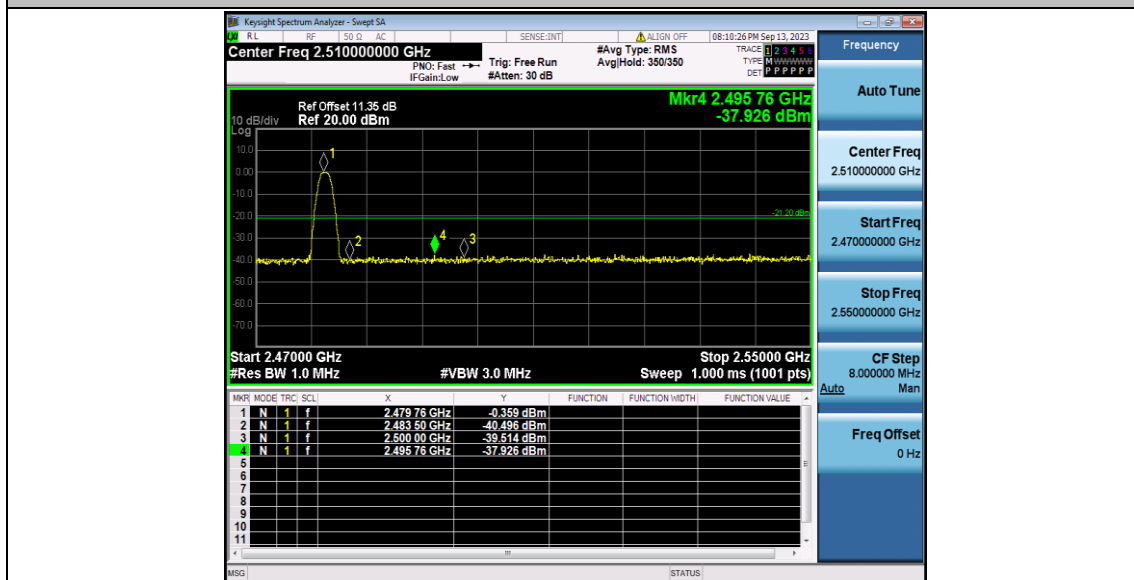
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak