

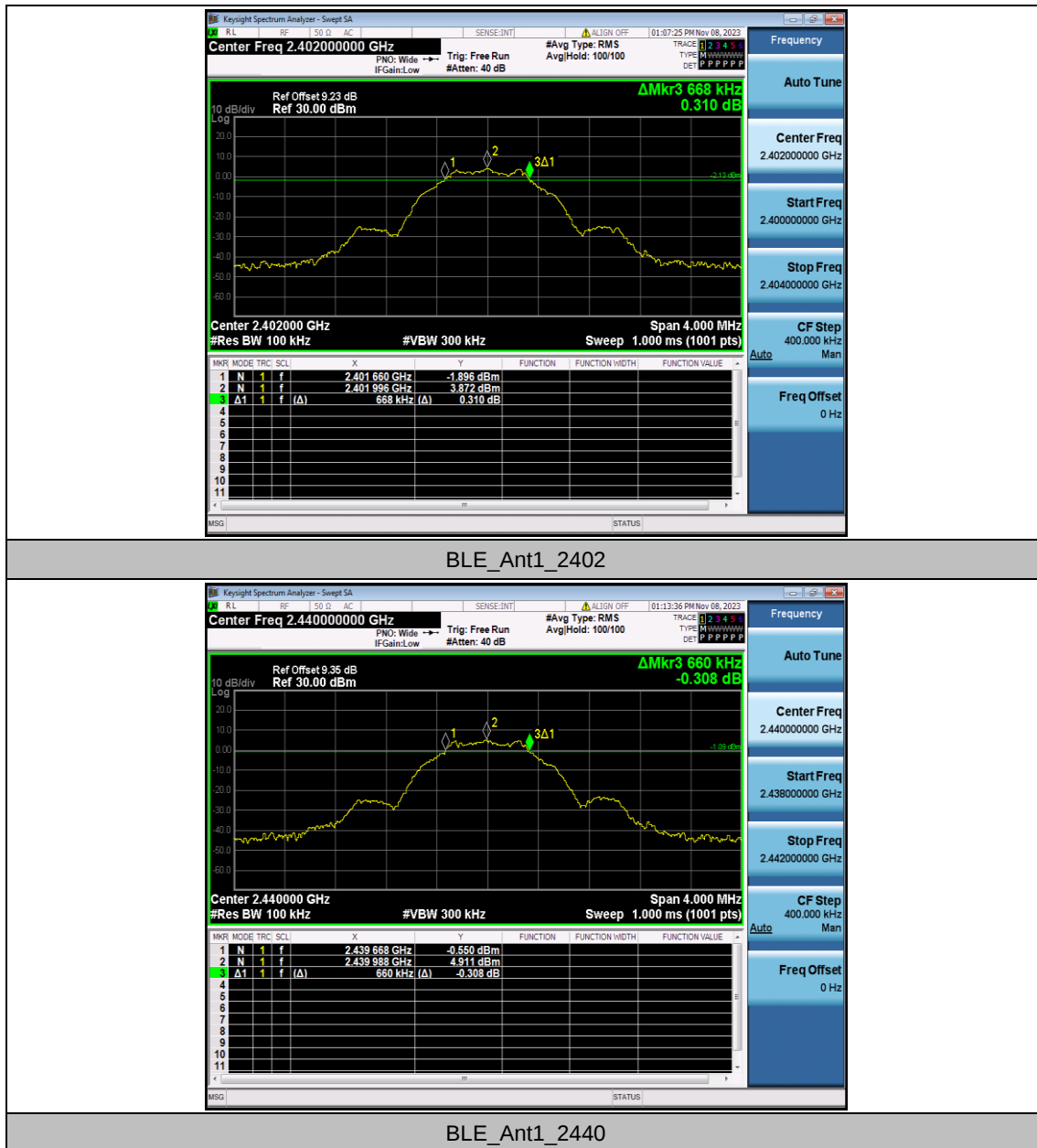
Case No. : <u>GTS20230628002-1-10</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.11.3</u>	Test Engineer: <u>Evan ouyang</u>

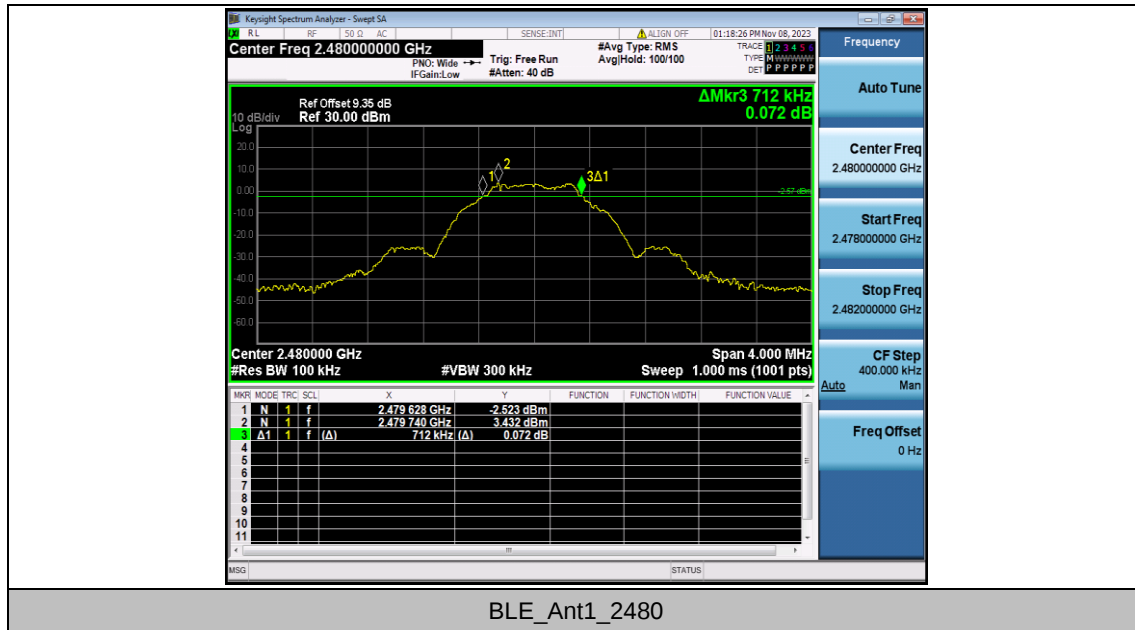
Appendix B.1: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.668	2401.660	2402.328	0.5	PASS
		2440	0.660	2439.668	2440.328	0.5	PASS
		2480	0.712	2479.628	2480.340	0.5	PASS

Test Graphs



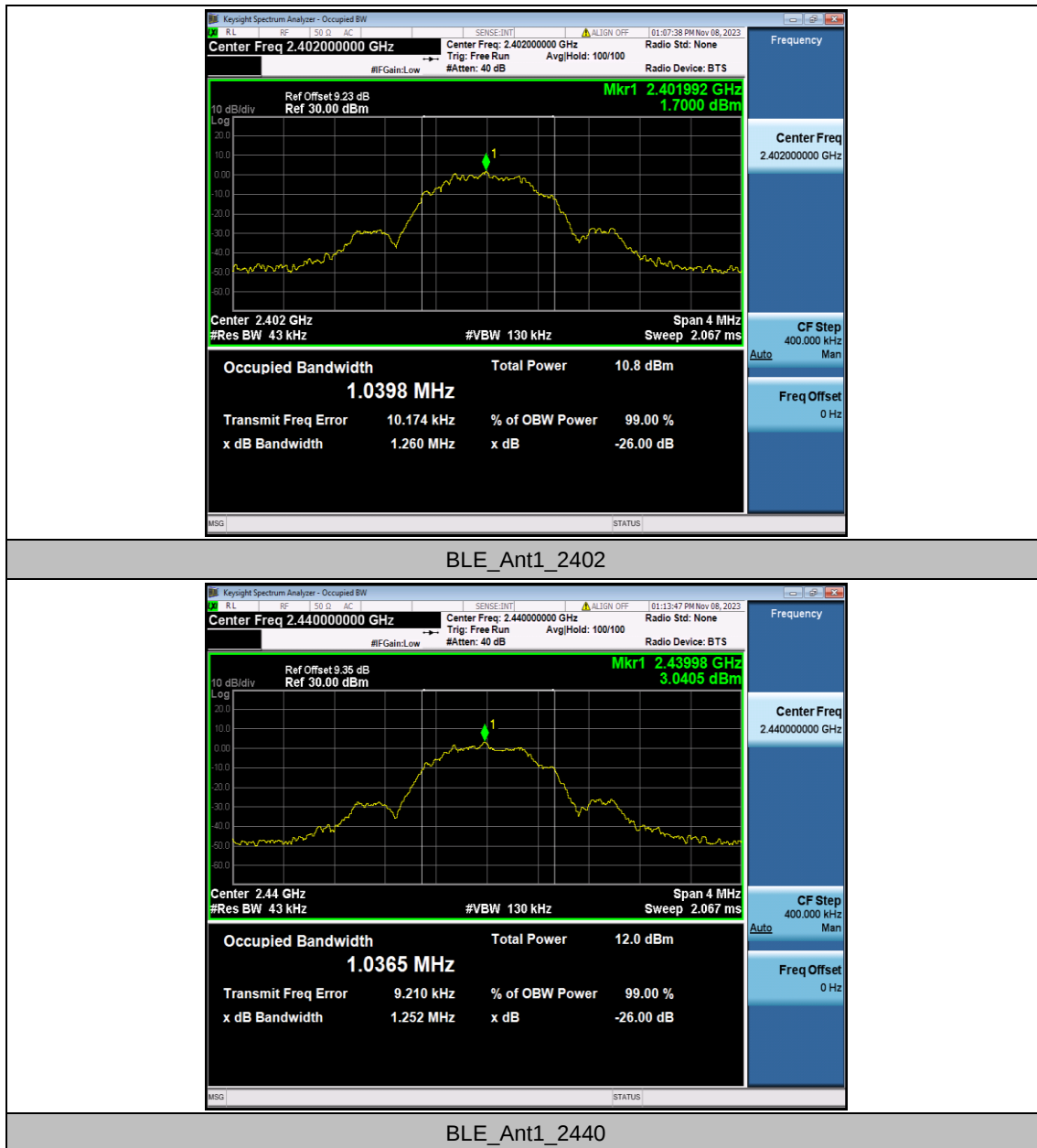


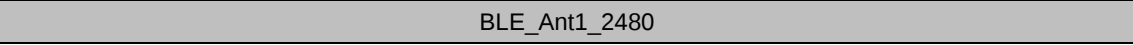
Appendix B.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0398	2401.490	2402.530	---	---
		2440	1.0365	2439.491	2440.527	---	---
		2480	1.0360	2479.486	2480.522	---	---

Test Graphs





Appendix B.3: Maximum conducted output power

Test Result Peak

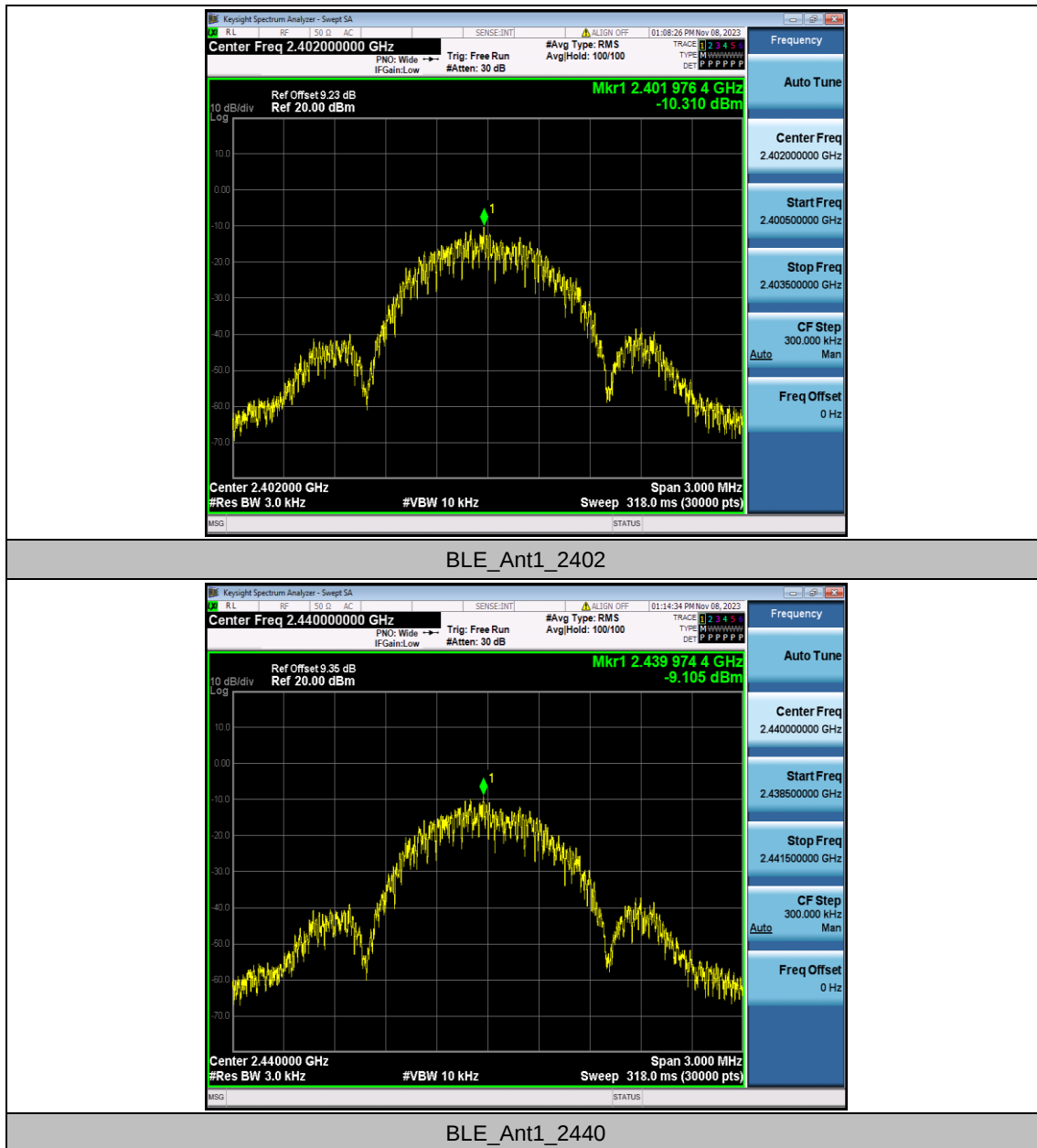
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	4.57	≤30	PASS
		2440	5.75	≤30	PASS
		2480	4.71	≤30	PASS

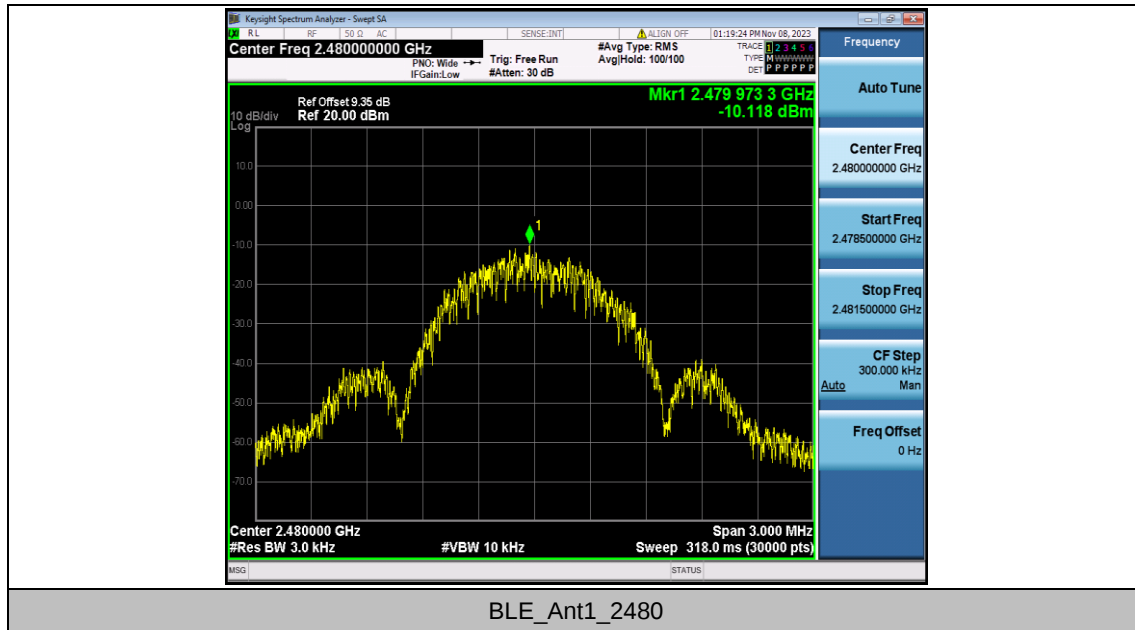
Appendix B.4: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-10.31	≤8.00	PASS
		2440	-9.11	≤8.00	PASS
		2480	-10.12	≤8.00	PASS

Test Graphs



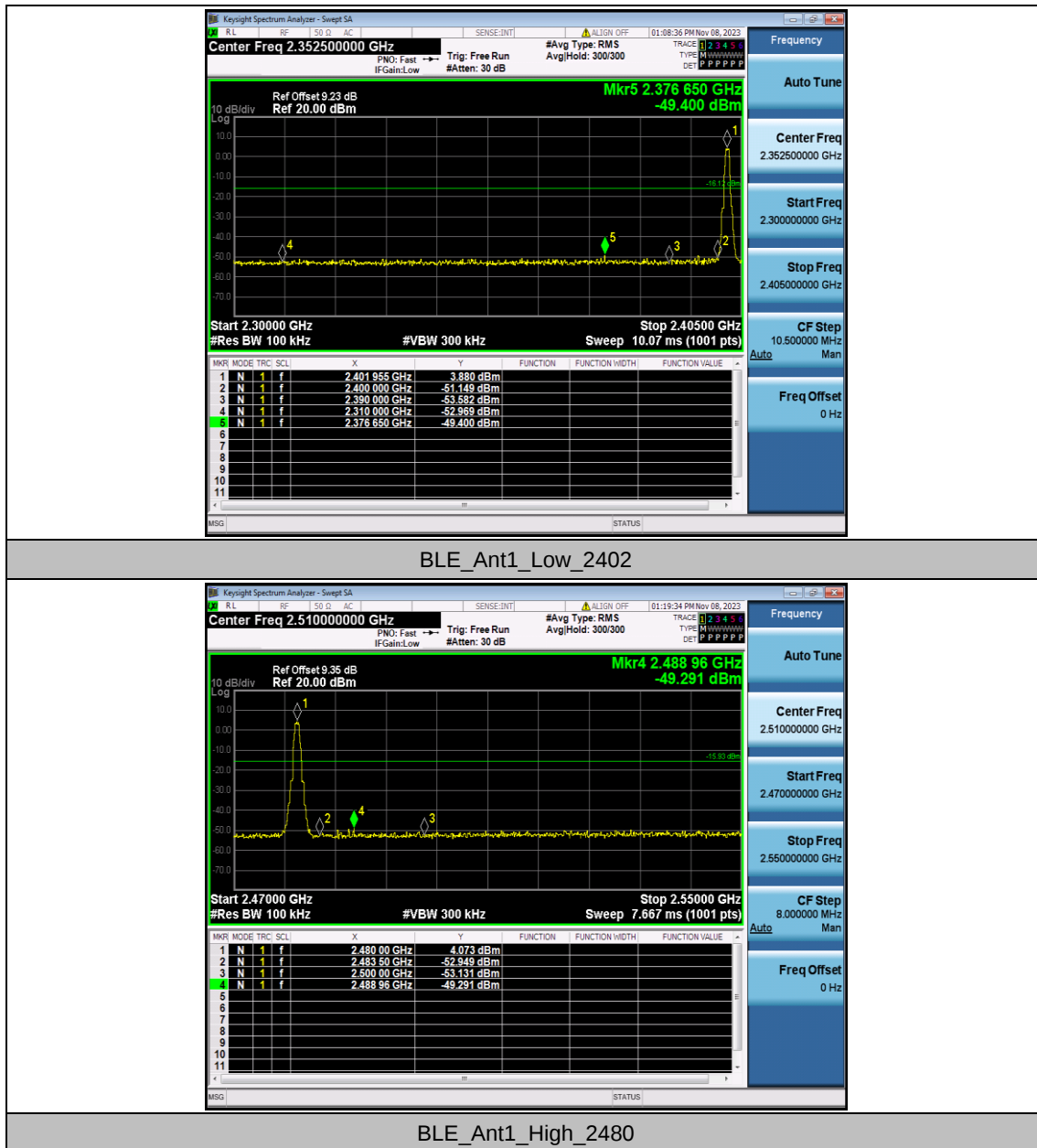


Appendix B.5: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	3.88	-49.4	≤ -16.12	PASS
		High	2480	4.07	-49.29	≤ -15.93	PASS

Test Graphs

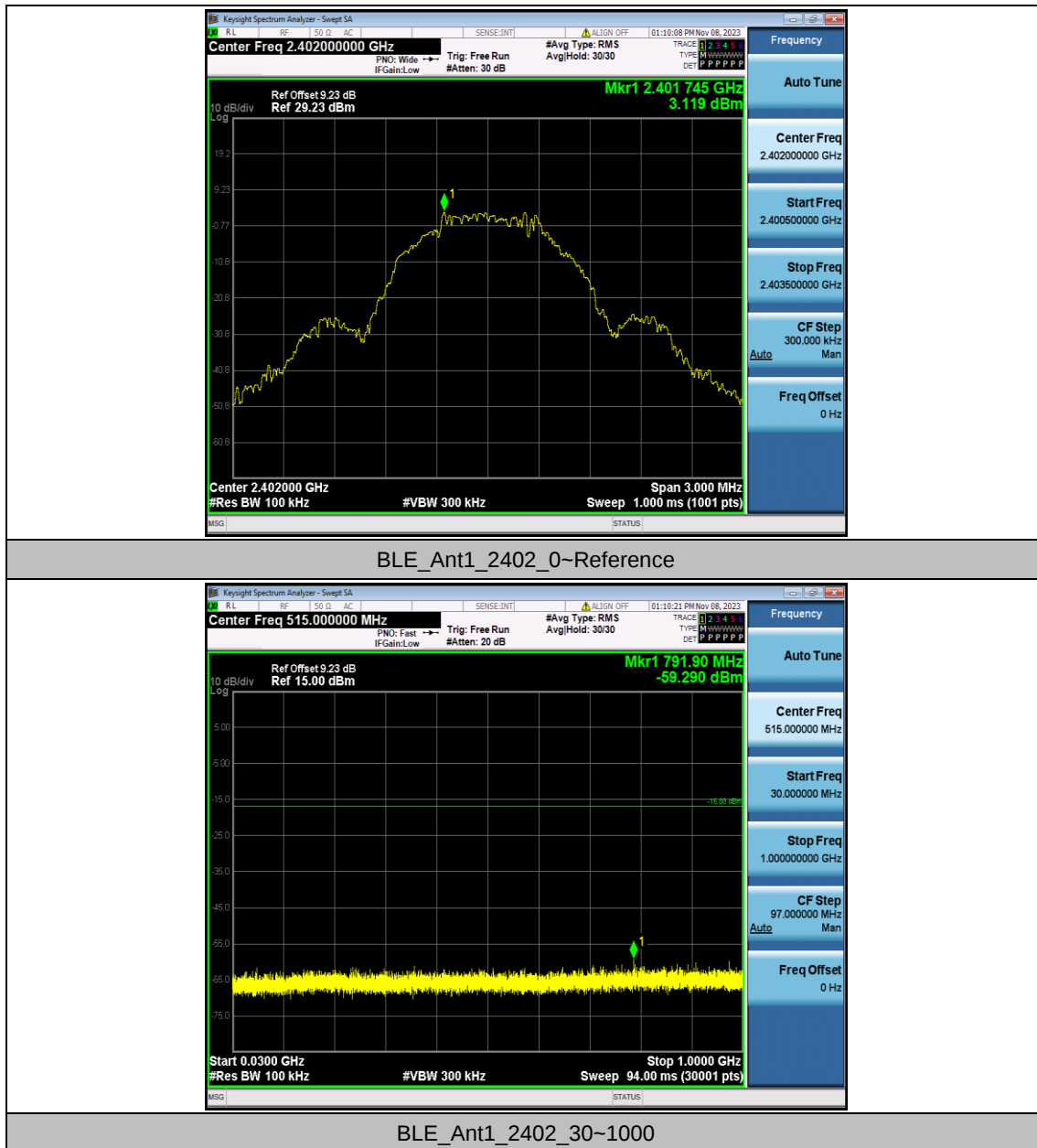


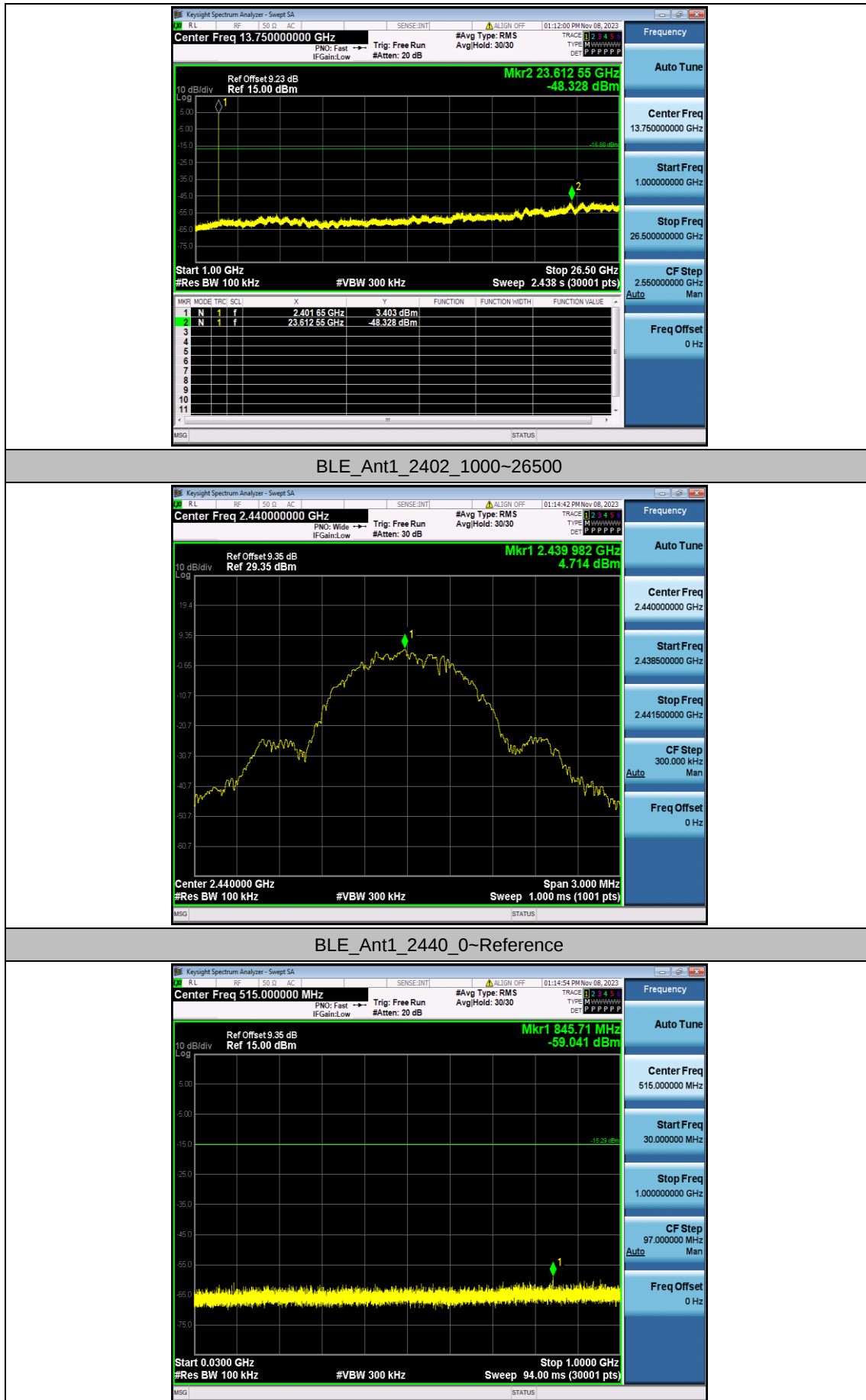
Appendix B.6: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	3.12	3.12	---	PASS
			30~1000	3.12	-59.29	≤ -16.88	PASS
			1000~26500	3.12	-48.33	≤ -16.88	PASS
		2440	Reference	4.71	4.71	---	PASS
			30~1000	4.71	-59.04	≤ -15.29	PASS
			1000~26500	4.71	-48.14	≤ -15.29	PASS
		2480	Reference	4.37	4.37	---	PASS
			30~1000	4.37	-59.76	≤ -15.63	PASS
			1000~26500	4.37	-47.17	≤ -15.63	PASS

Test Graphs





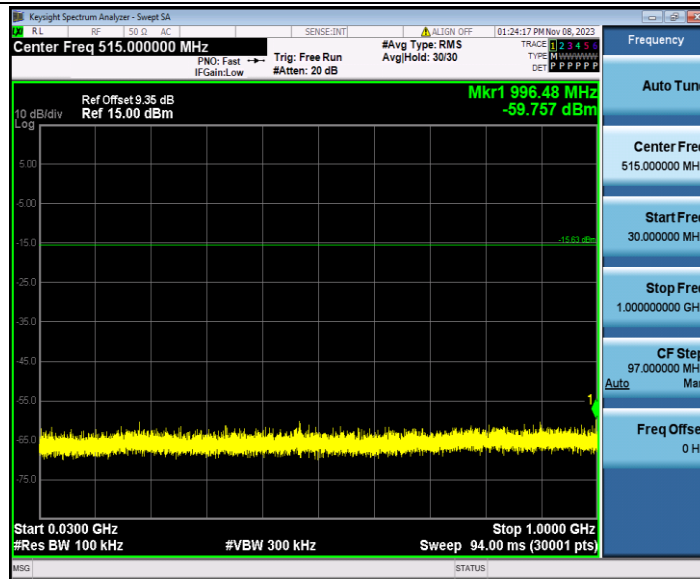
BLE_Ant1_2440_30~1000



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

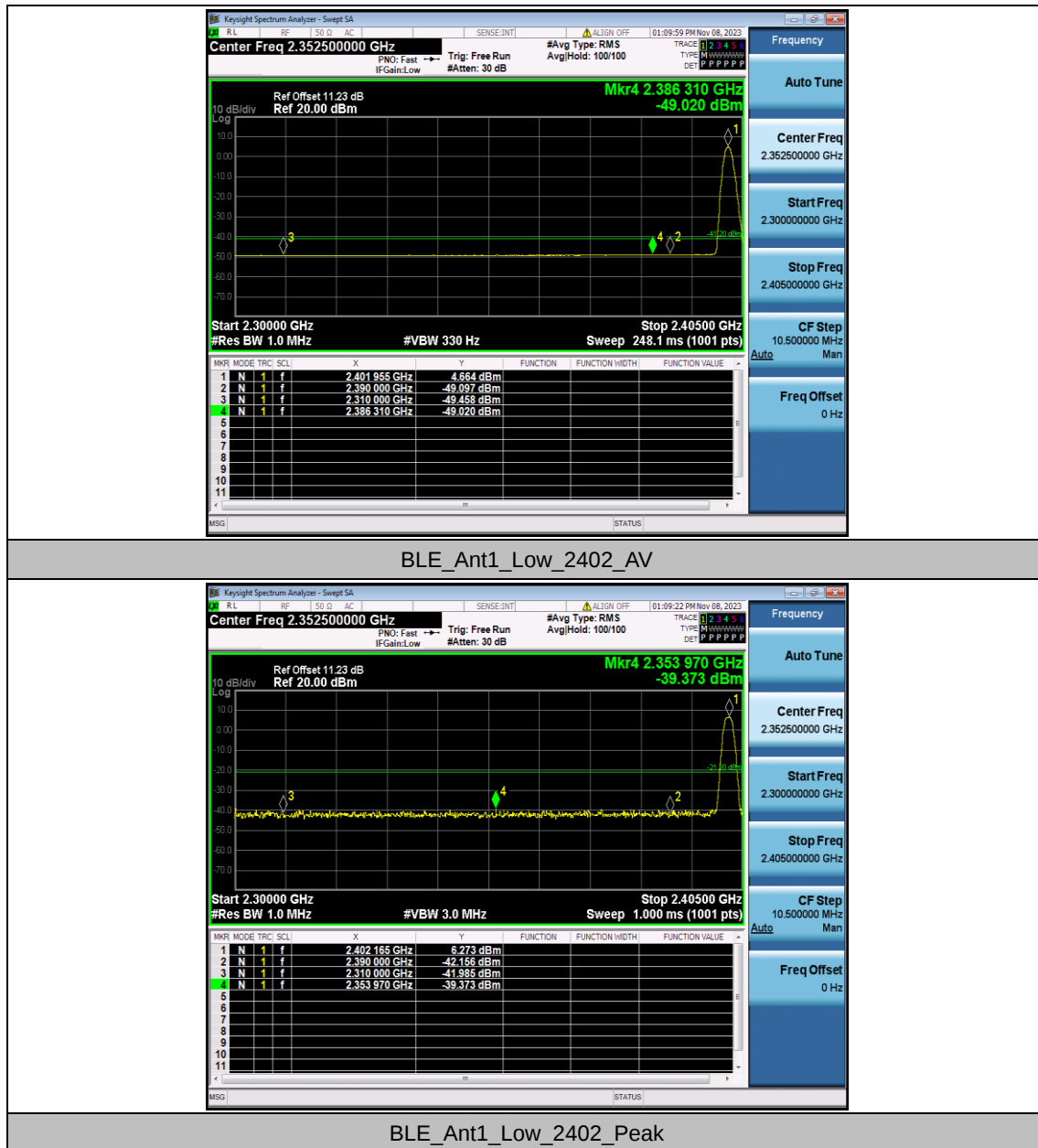
Test Result

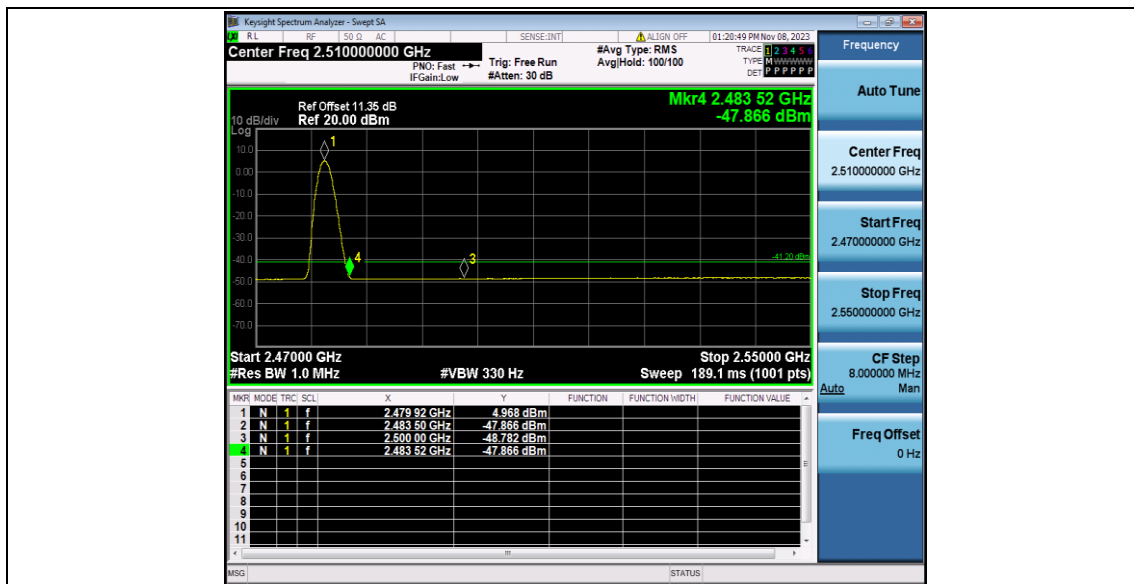
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.46	≤-41.20	45.74	≤54	PASS
				AV	2386.310	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2390.000	-49.1	≤-41.20	46.10	≤54	PASS
				Peak	2310.000	-41.99	≤-21.20	53.21	≤74	PASS
				Peak	2353.970	-39.37	≤-21.20	55.83	≤74	PASS
				Peak	2390.000	-42.16	≤-21.20	53.04	≤74	PASS
		High	2480	AV	2483.500	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2483.520	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2500.000	-48.78	≤-41.20	46.42	≤54	PASS
				Peak	2483.500	-42.16	≤-21.20	53.04	≤74	PASS
				Peak	2494.720	-39.46	≤-21.20	55.74	≤74	PASS
				Peak	2500.000	-41.49	≤-21.20	53.71	≤74	PASS

Note:

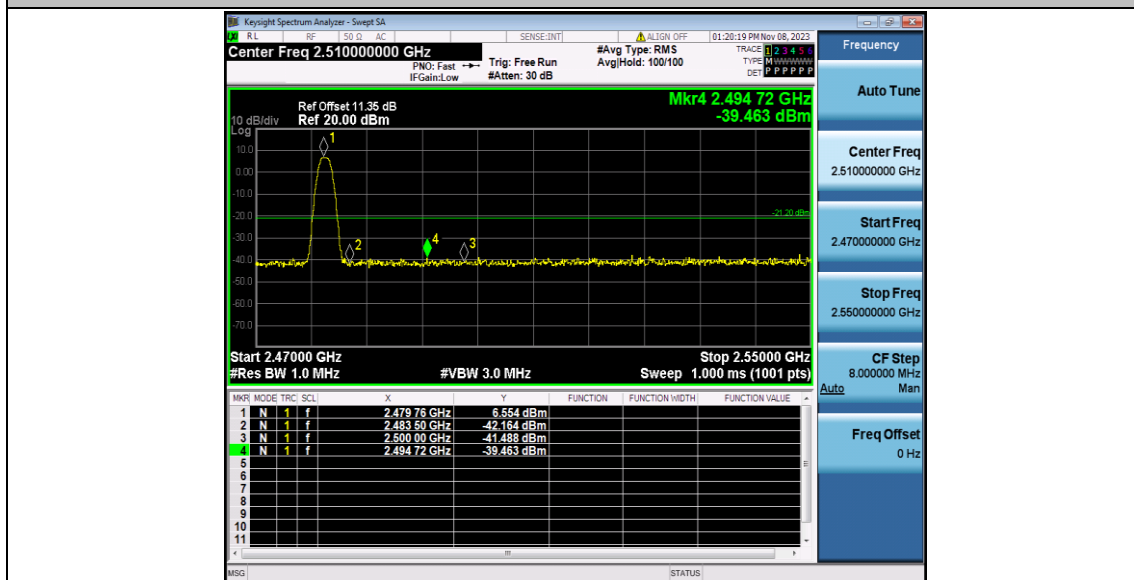
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak