

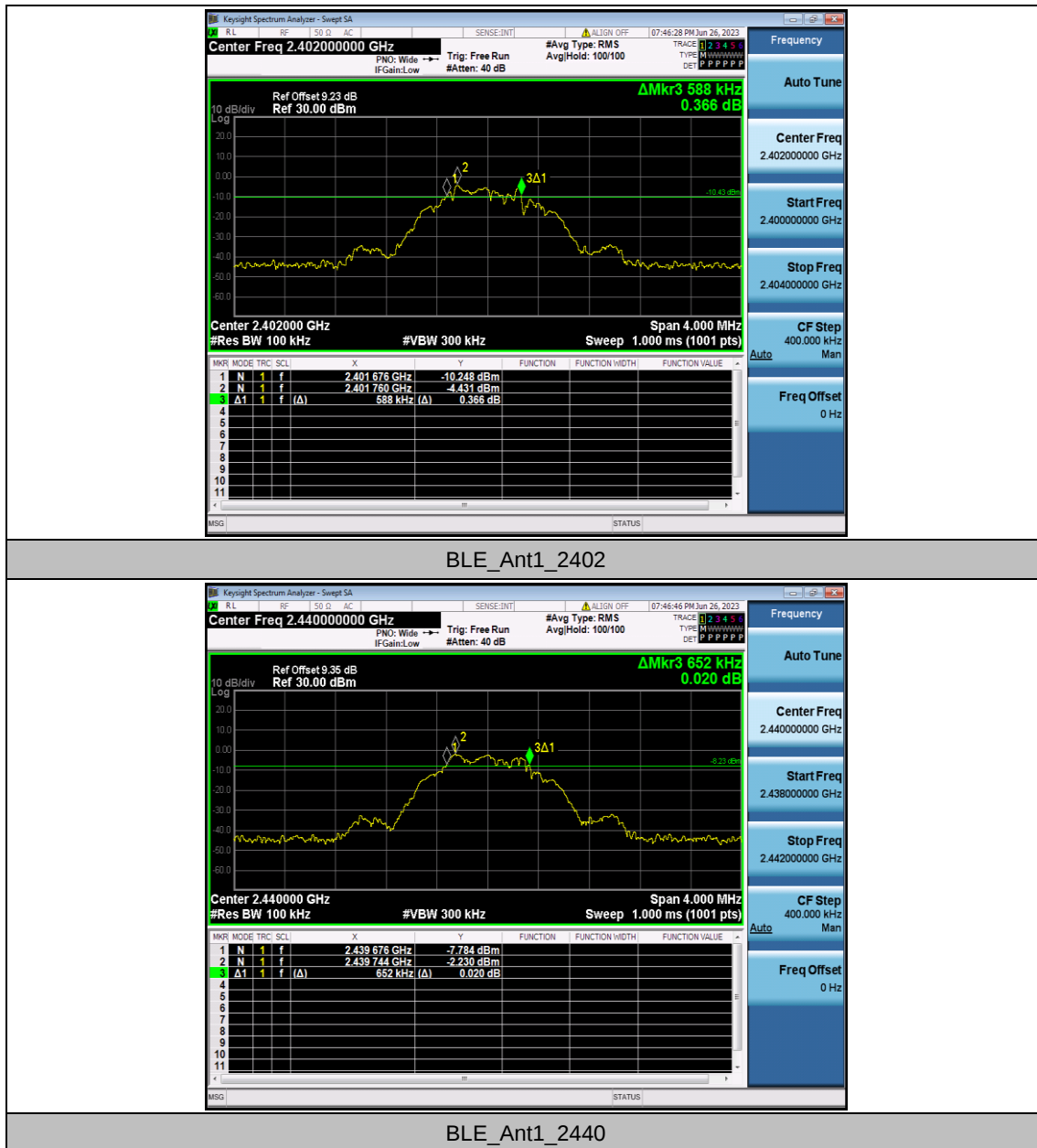
Case No. : <u>GTS20230602006-1-1</u>	
Ambient Condition: <u>23</u> °C, <u>48</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.6.26</u>	Test Engineer: <u>Jenny zeng</u>

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	0.588	2401.676	2402.264	0.5	PASS
		2440	0.652	2439.676	2440.328	0.5	PASS
		2480	0.512	2479.672	2480.184	0.5	PASS

Test Graphs



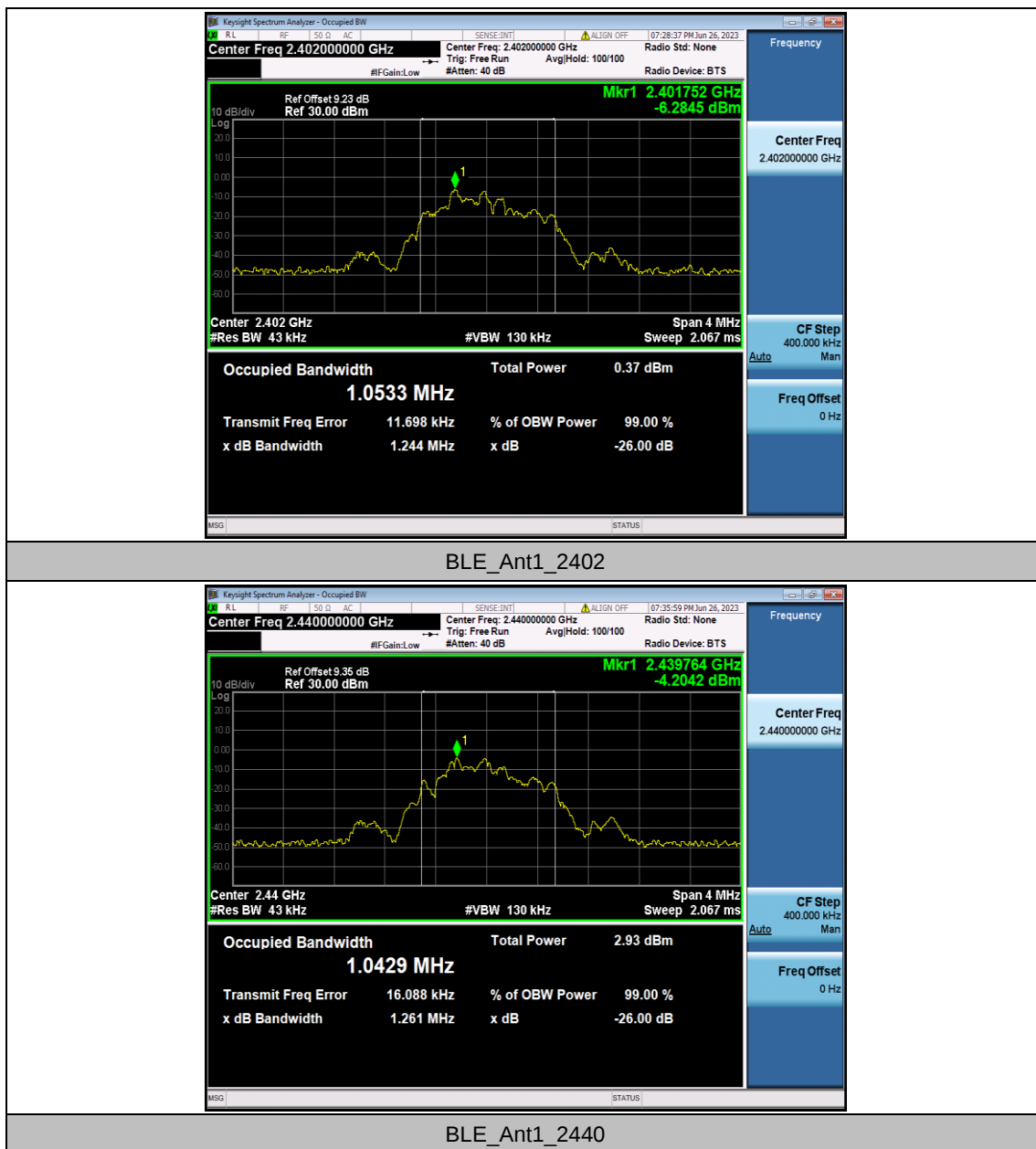


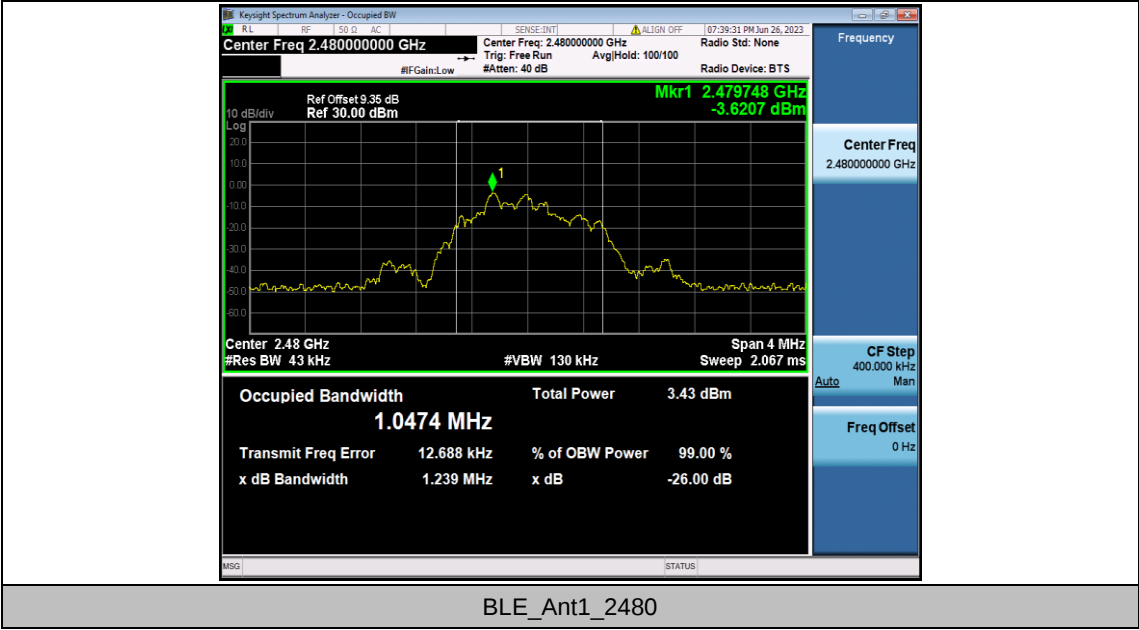
Appendix A.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0533	2401.485	2402.538	---	---
		2440	1.0429	2439.495	2440.538	---	---
		2480	1.0474	2479.489	2480.536	---	---

Test Graphs





BLE_Ant1_2480

Appendix A.3: Maximum conducted output power

Test Result Peak

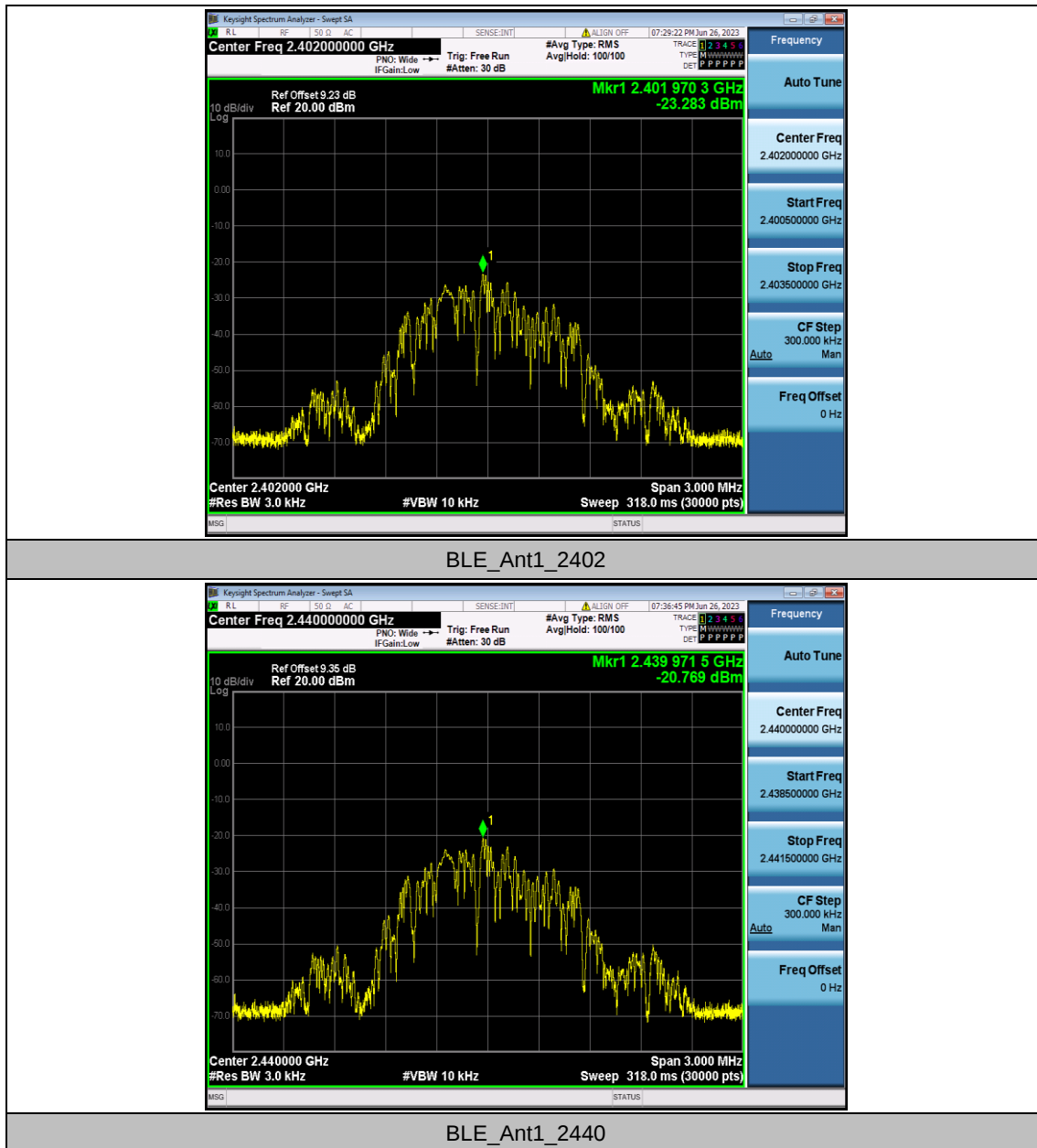
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-4.22	≤30	PASS
		2440	-1.66	≤30	PASS
		2480	-1.51	≤30	PASS

Appendix A.4: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-23.28	≤8.00	PASS
		2440	-20.77	≤8.00	PASS
		2480	-20.58	≤8.00	PASS

Test Graphs



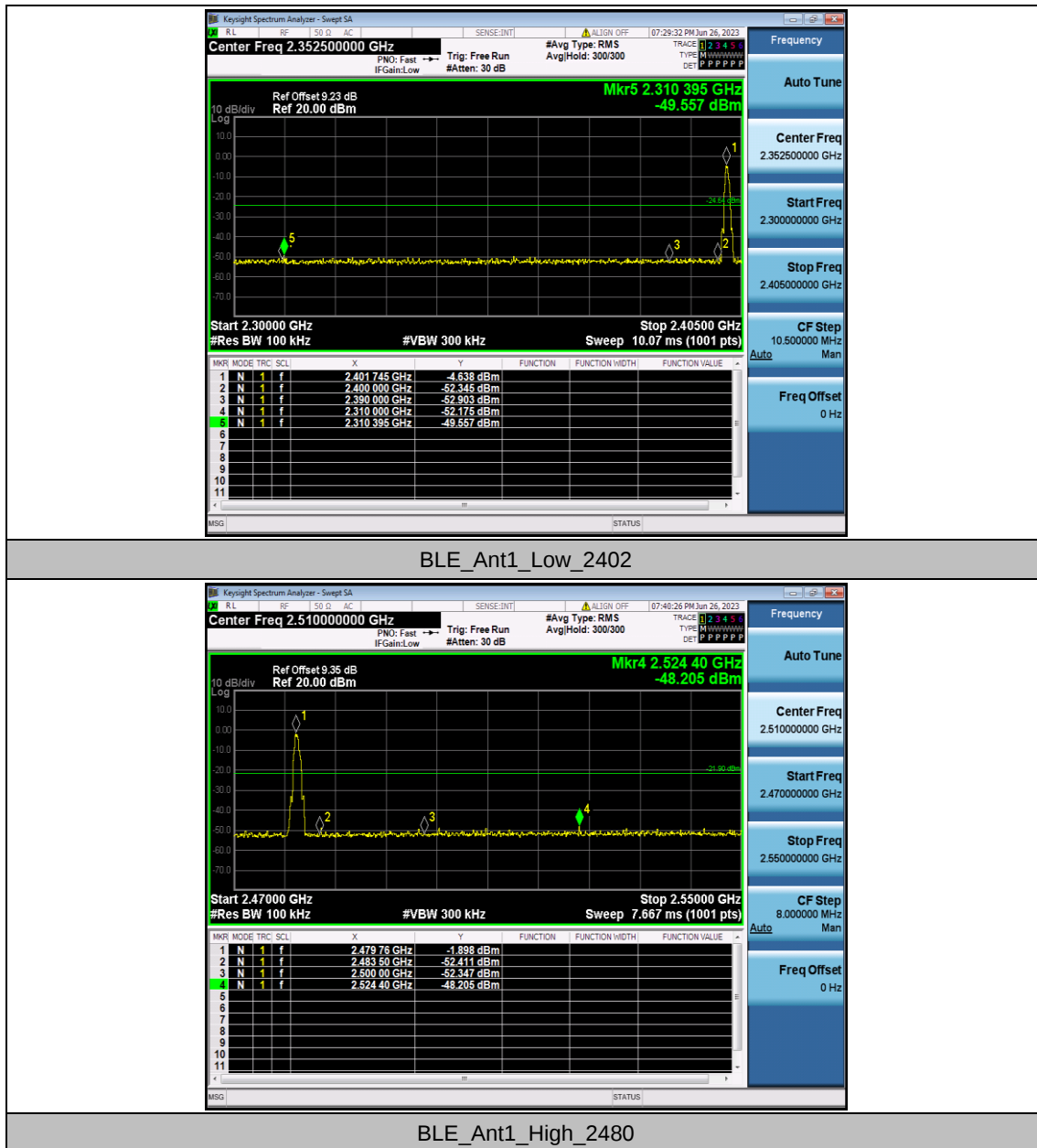


Appendix A.5: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-4.64	-49.56	≤ -24.64	PASS
		High	2480	-1.90	-48.21	≤ -21.9	PASS

Test Graphs

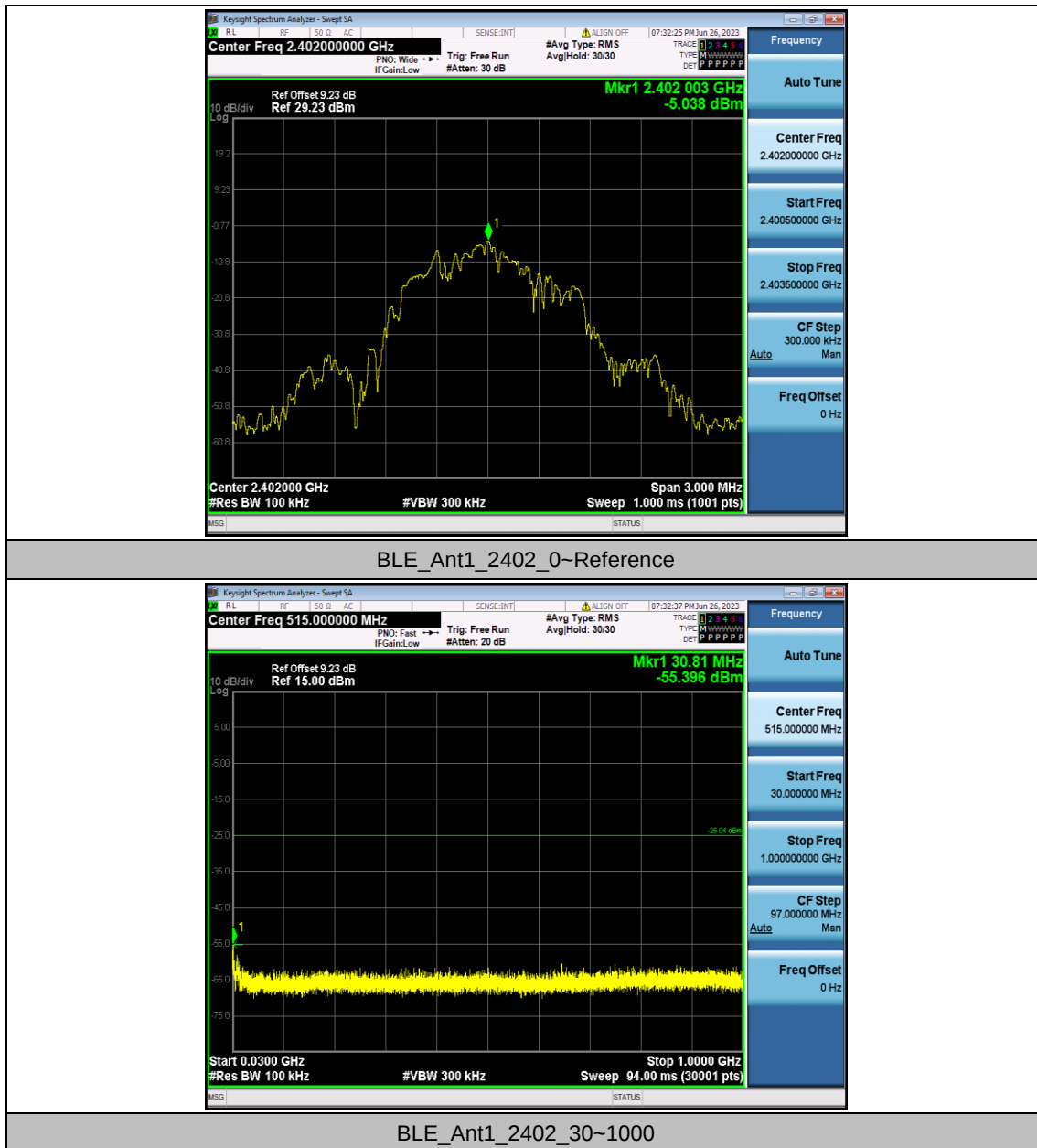


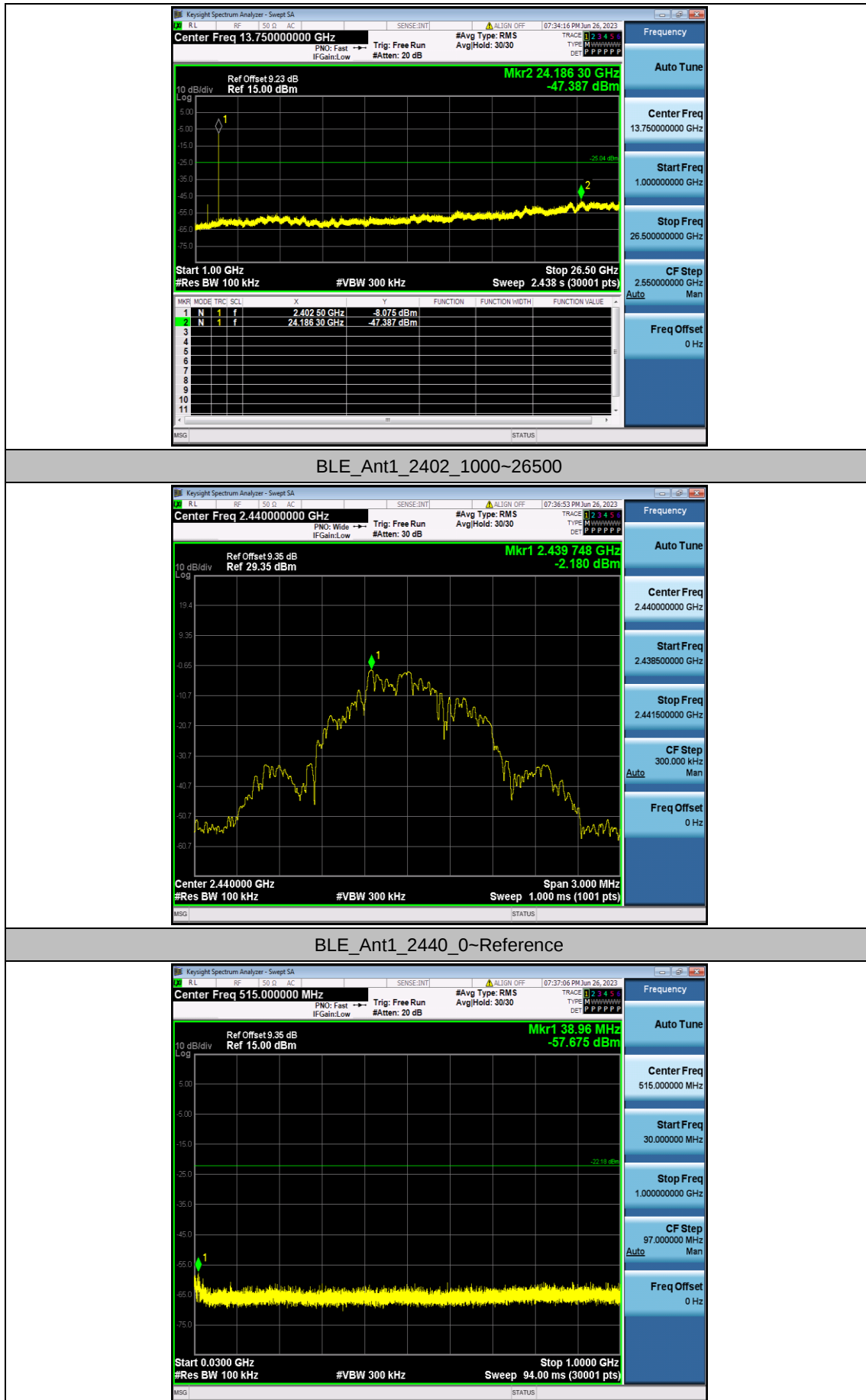
Appendix A.6: Conducted Spurious Emission

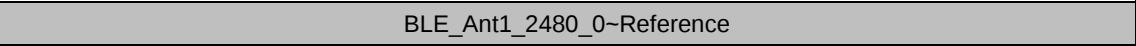
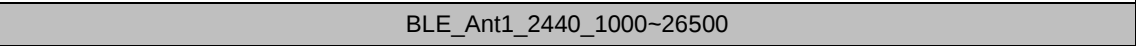
Test Result

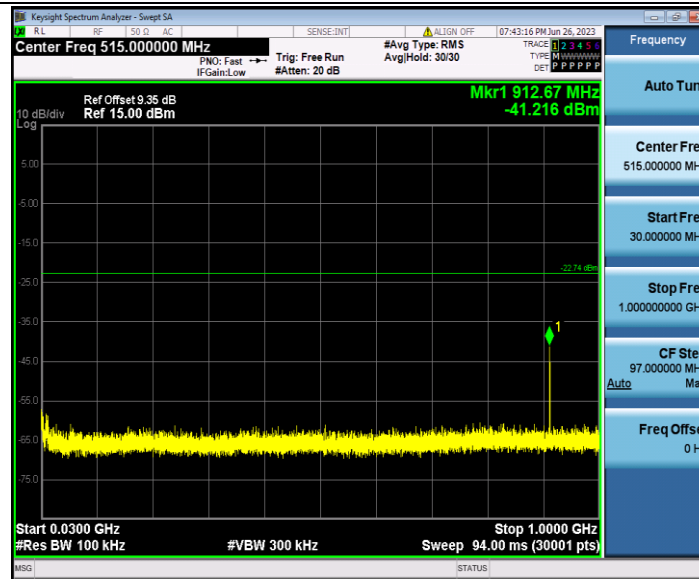
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-5.04	-5.04	---	PASS
			30~1000	-5.04	-55.4	≤ -25.04	PASS
			1000~26500	-5.04	-47.39	≤ -25.04	PASS
		2440	Reference	-2.18	-2.18	---	PASS
			30~1000	-2.18	-57.68	≤ -22.18	PASS
			1000~26500	-2.18	-47.56	≤ -22.18	PASS
		2480	Reference	-2.74	-2.74	---	PASS
			30~1000	-2.74	-41.22	≤ -22.74	PASS
			1000~26500	-2.74	-46.78	≤ -22.74	PASS

Test Graphs









BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500

Appendix A.7: Emissions in Restricted Bands

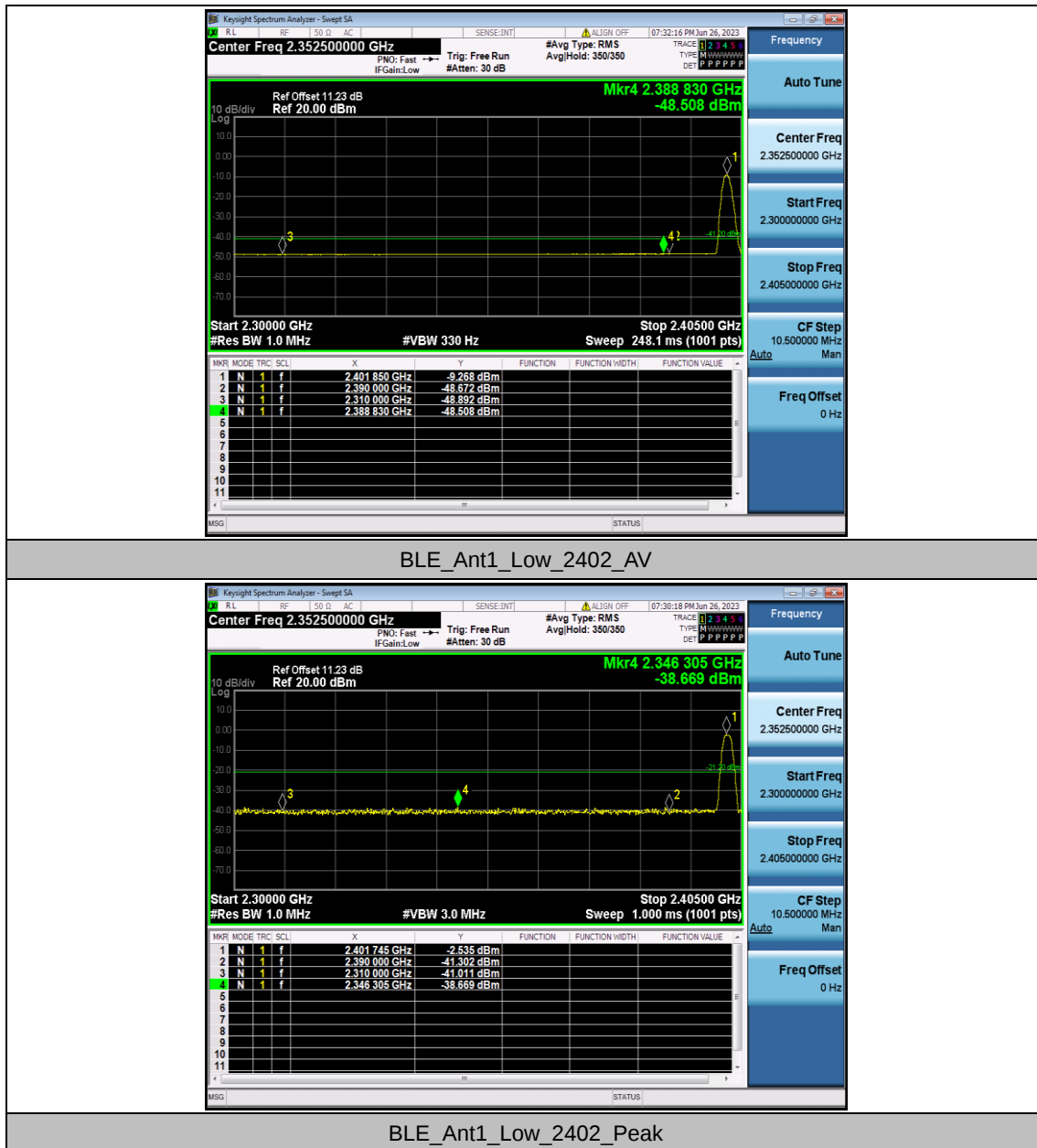
Test Result

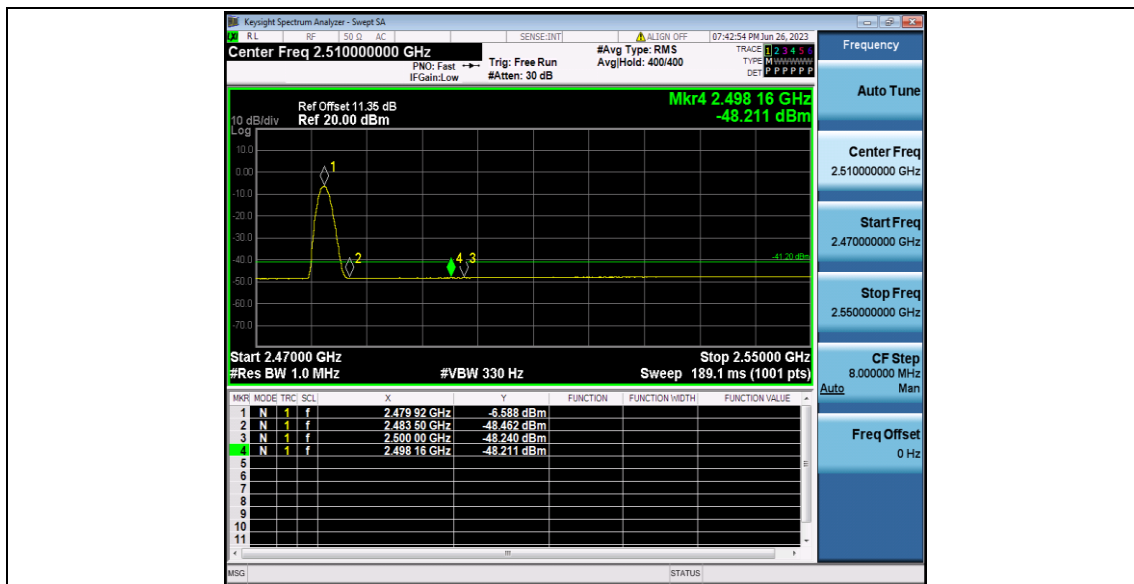
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2388.830	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2390.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2310.000	-41.01	≤-21.20	54.19	≤74	PASS
				Peak	2346.305	-38.67	≤-21.20	56.53	≤74	PASS
				Peak	2390.000	-41.3	≤-21.20	53.90	≤74	PASS
		High	2480	AV	2483.500	-48.46	≤-41.20	46.74	≤54	PASS
				AV	2498.160	-48.21	≤-41.20	46.99	≤54	PASS
				AV	2500.000	-48.24	≤-41.20	46.96	≤54	PASS
				Peak	2483.500	-40.51	≤-21.20	54.69	≤74	PASS
				Peak	2499.920	-38.59	≤-21.20	56.61	≤74	PASS
				Peak	2500.000	-40.02	≤-21.20	55.18	≤74	PASS

Note:

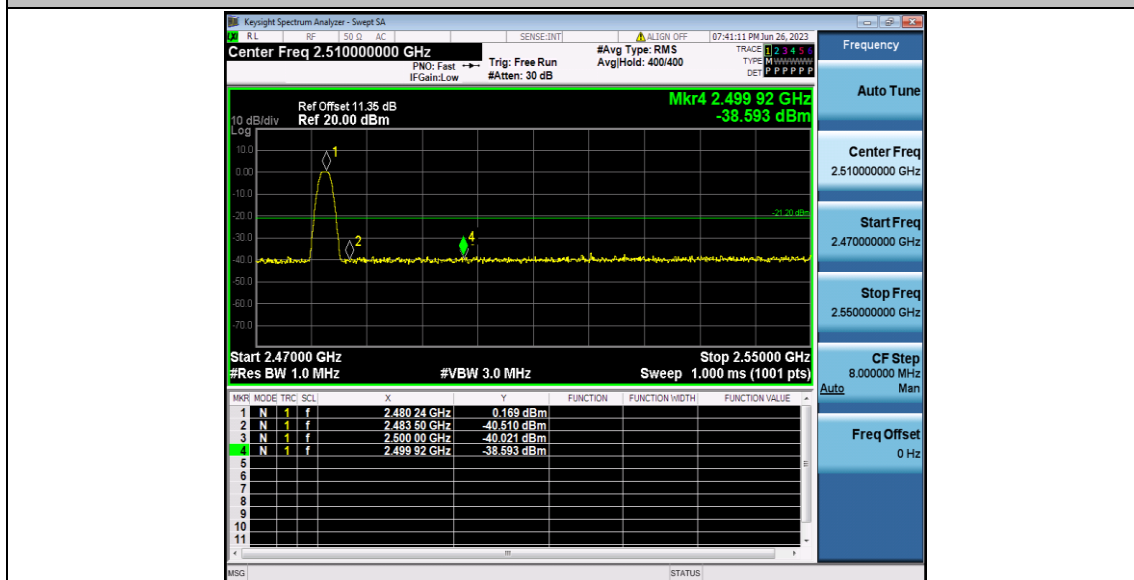
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak