

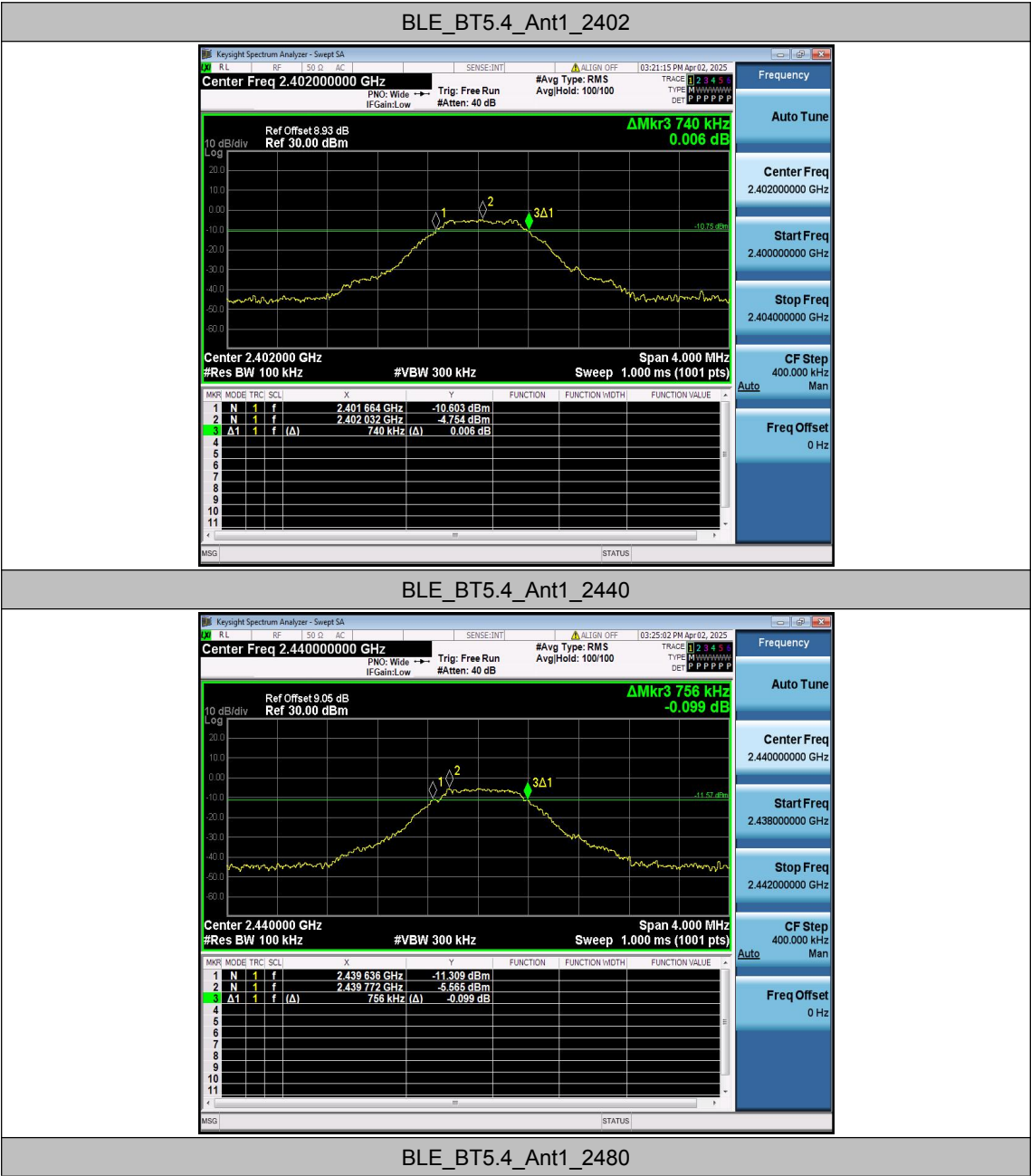
Case No. : <u>GTS20250327003-1-1</u>	
Ambient Condition: <u>21</u> °C, <u>49</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.4.2</u>	Test Engineer: <u>Evan ouyang</u>

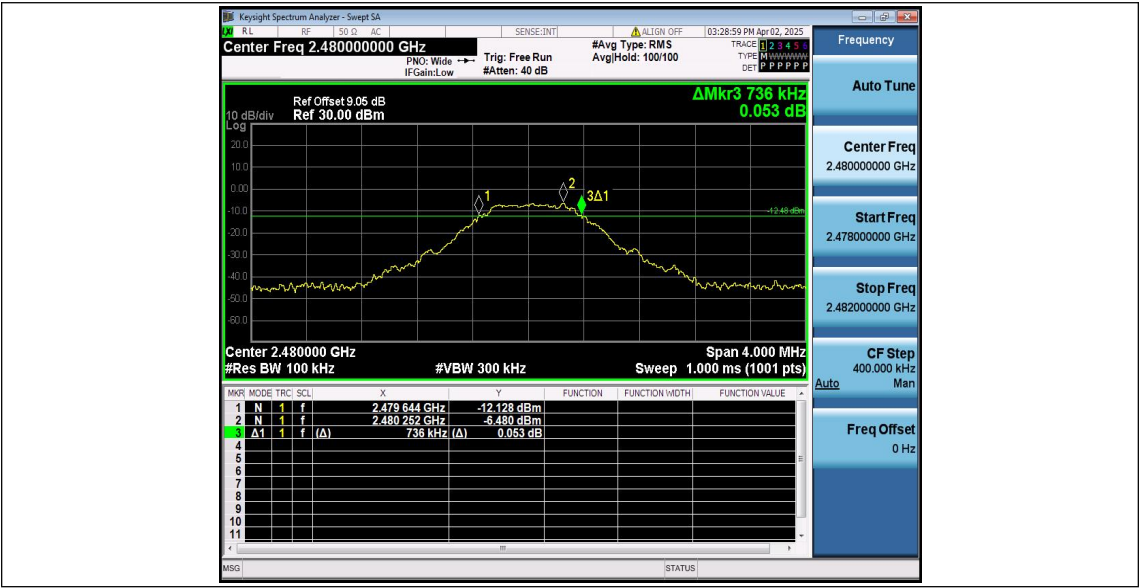
Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT5.4	Ant1	2402	0.740	2401.664	2402.404	0.5	PASS
		2440	0.756	2439.636	2440.392	0.5	PASS
		2480	0.736	2479.644	2480.380	0.5	PASS

Test Graphs



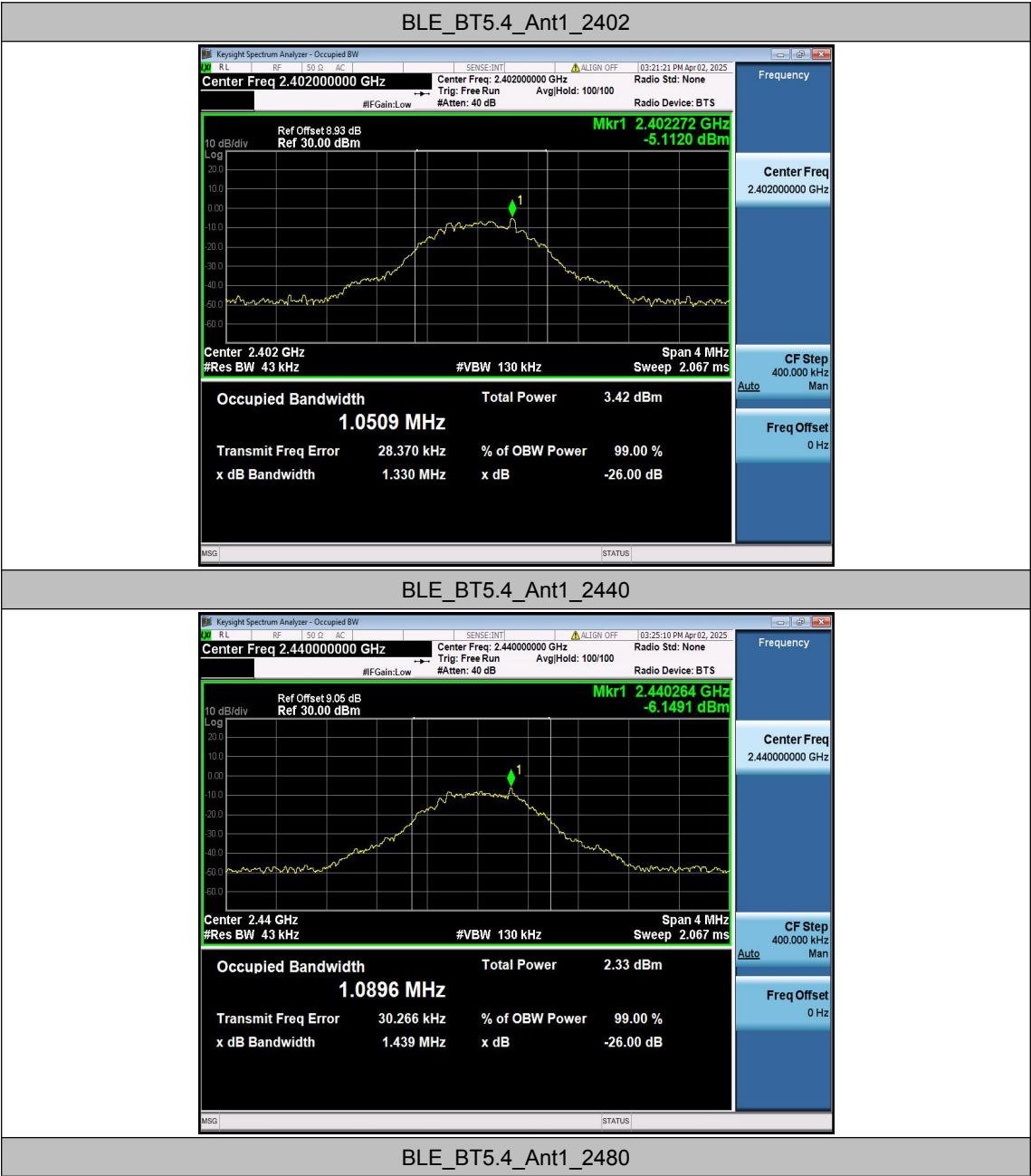


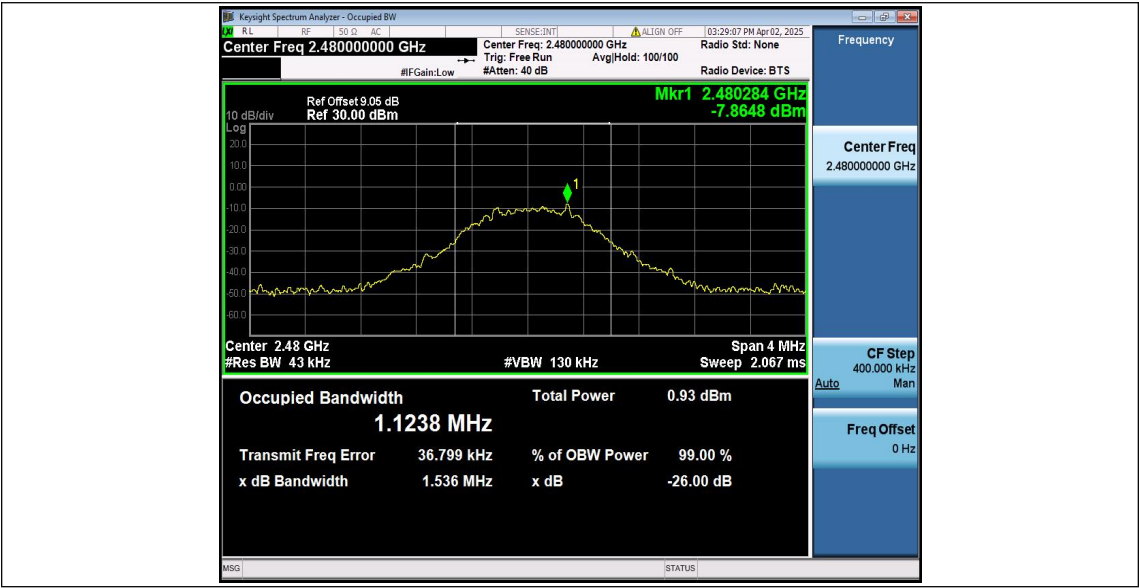
Appendix B.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT5.4	Ant1	2402	1.0509	2401.5029	2402.5538	---	---
		2440	1.0896	2439.4855	2440.5751	---	---
		2480	1.1238	2479.4749	2480.5987	---	---

Test Graphs





Appendix B.3: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_BT5.4	Ant1	2402	-3.32	≤30	PASS
		2440	-4.04	≤30	PASS
		2480	-5.34	≤30	PASS

Appendix B.4: Maximum power spectral density

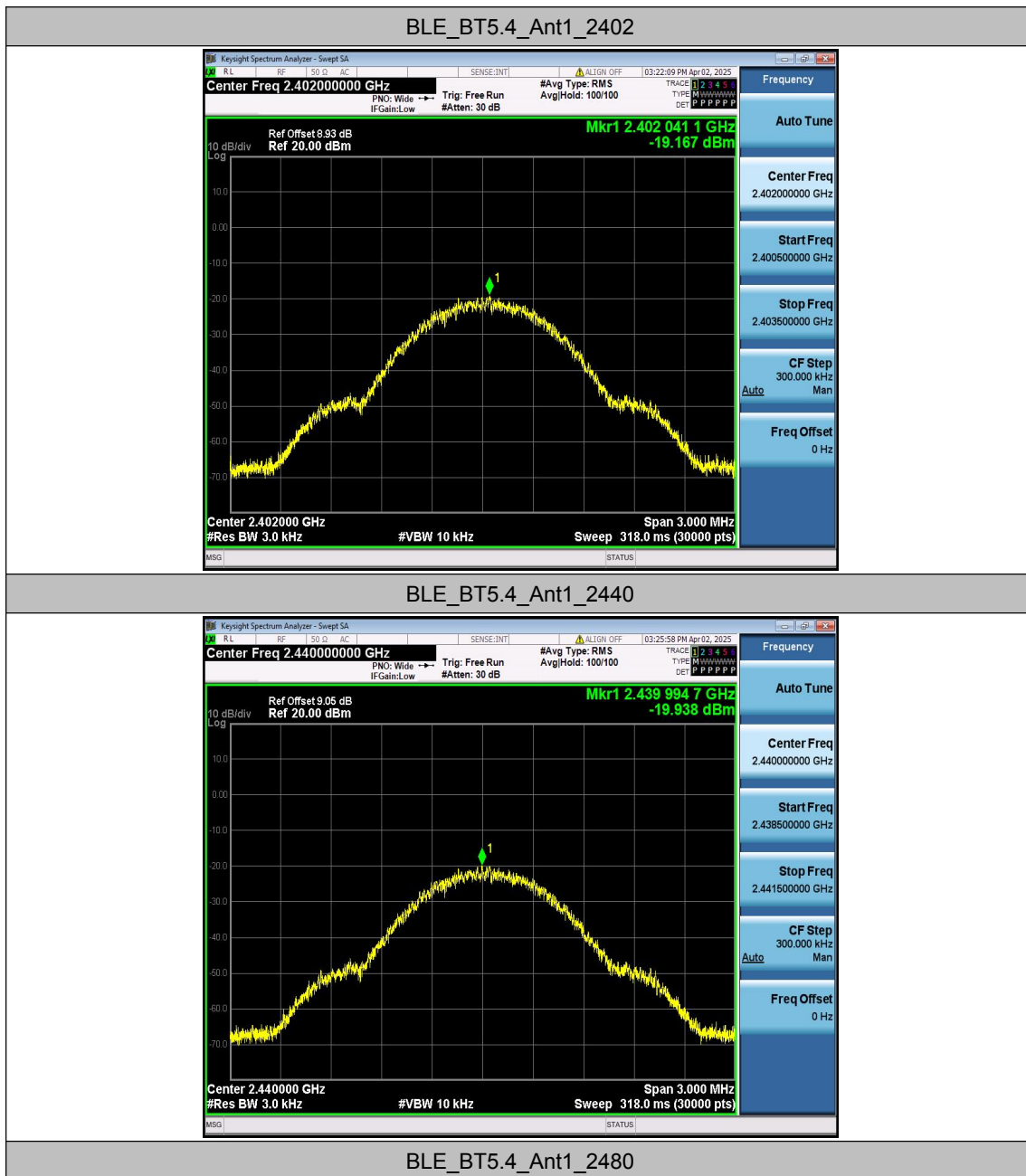
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT5.4	Ant1	2402	-19.17	≤8.00	PASS
		2440	-19.94	≤8.00	PASS
		2480	-20.97	≤8.00	PASS

Note:

1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs



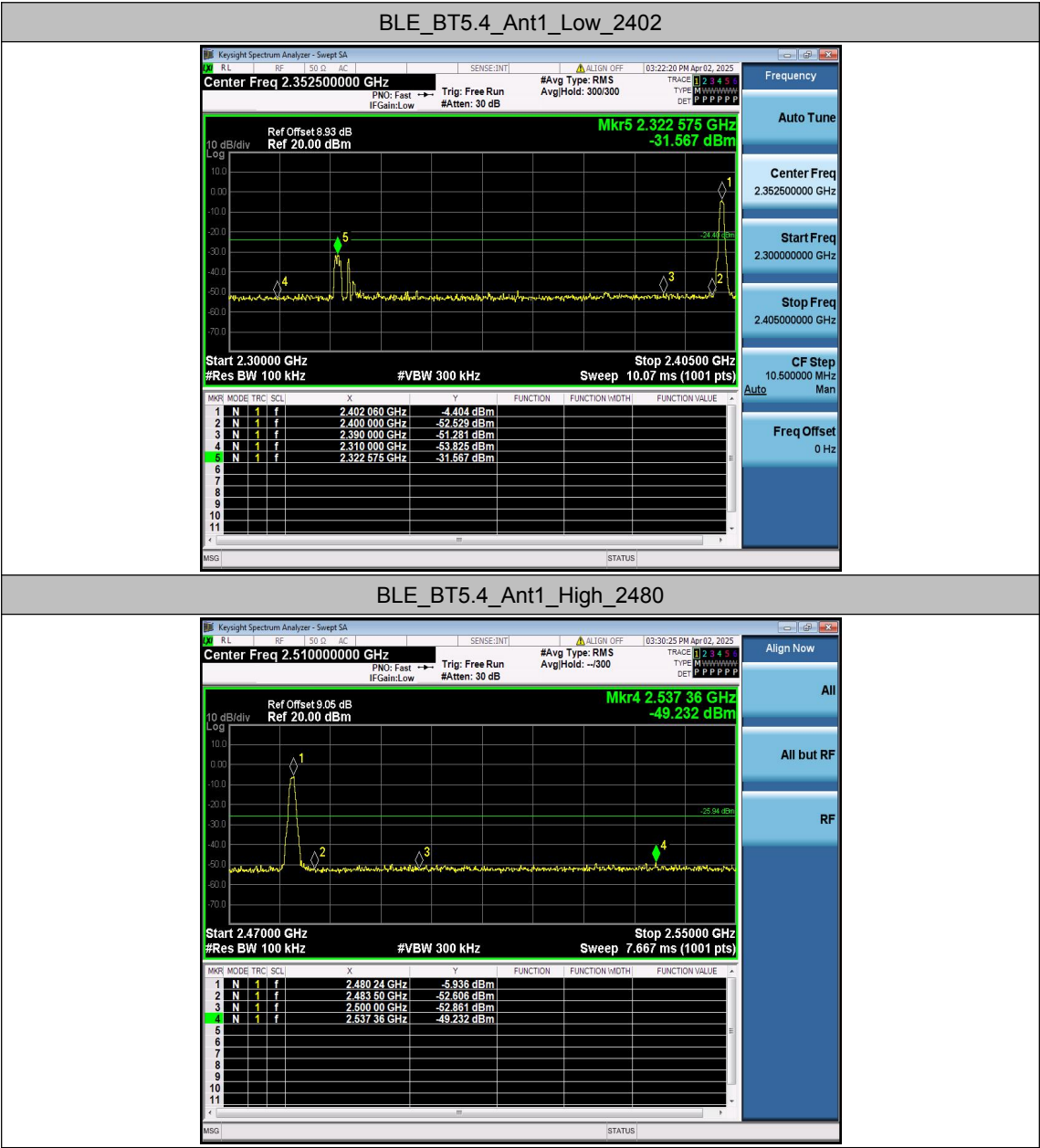


Appendix B.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT5.4	Ant1	Low	2402	-4.40	-31.57	≤ -24.4	PASS
		High	2480	-5.94	-49.23	≤ -25.94	PASS

Test Graphs



Appendix B.6: Conducted Spurious Emission

Test Result

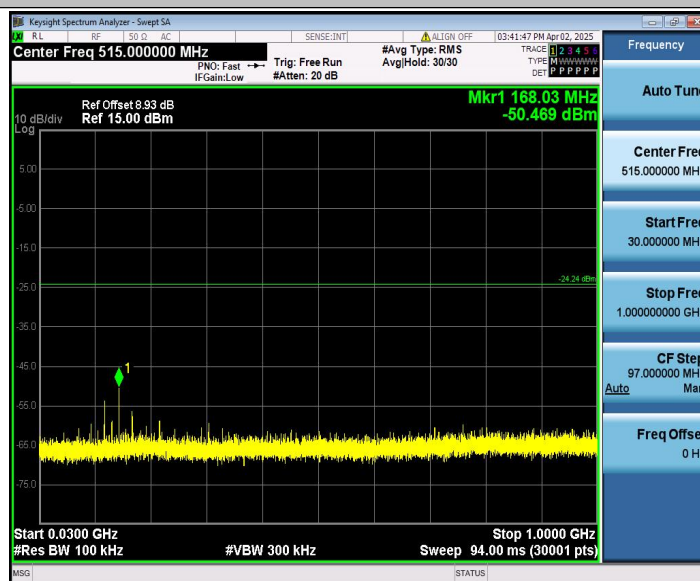
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT5.4	Ant1	2402	Reference	-4.24	-4.24	---	PASS
			30~1000	-4.24	-50.47	≤ -24.24	PASS
			1000~26500	-4.24	-39.39	≤ -24.24	PASS
		2440	Reference	-6.22	-6.22	---	PASS
			30~1000	-6.22	-50.05	≤ -26.22	PASS
			1000~26500	-6.22	-35.62	≤ -26.22	PASS
		2480	Reference	-6.84	-6.84	---	PASS
			30~1000	-6.84	-50.51	≤ -26.84	PASS
			1000~26500	-6.84	-37.6	≤ -26.84	PASS

Test Graphs

BLE_BT5.4_Ant1_2402_0~Reference



BLE_BT5.4_Ant1_2402_30~1000



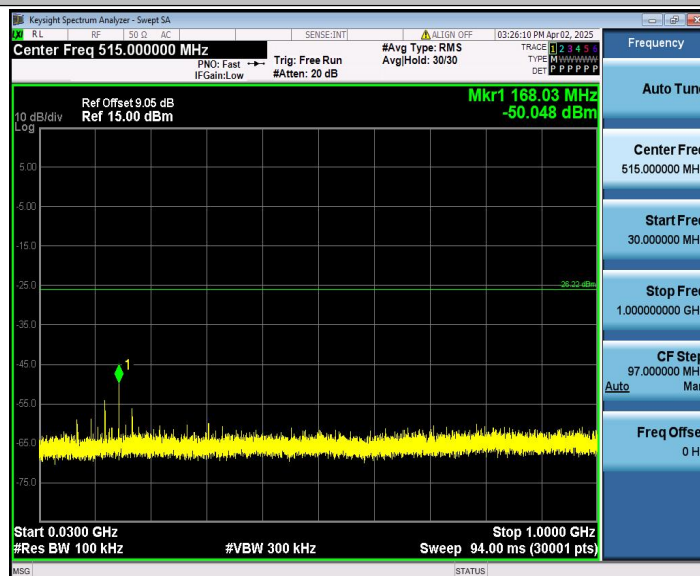
BLE_BT5.4_Ant1_2402_1000~26500

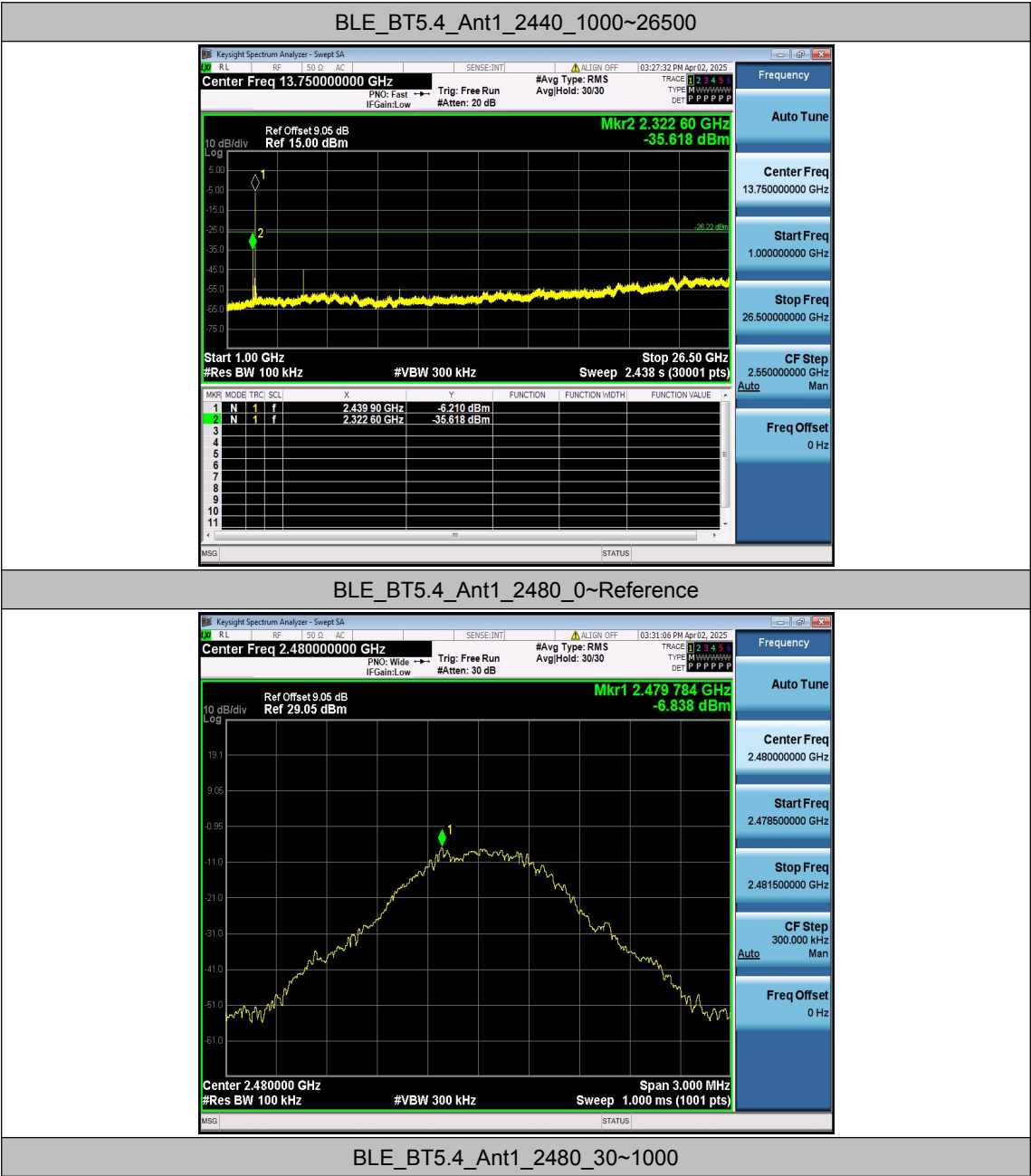


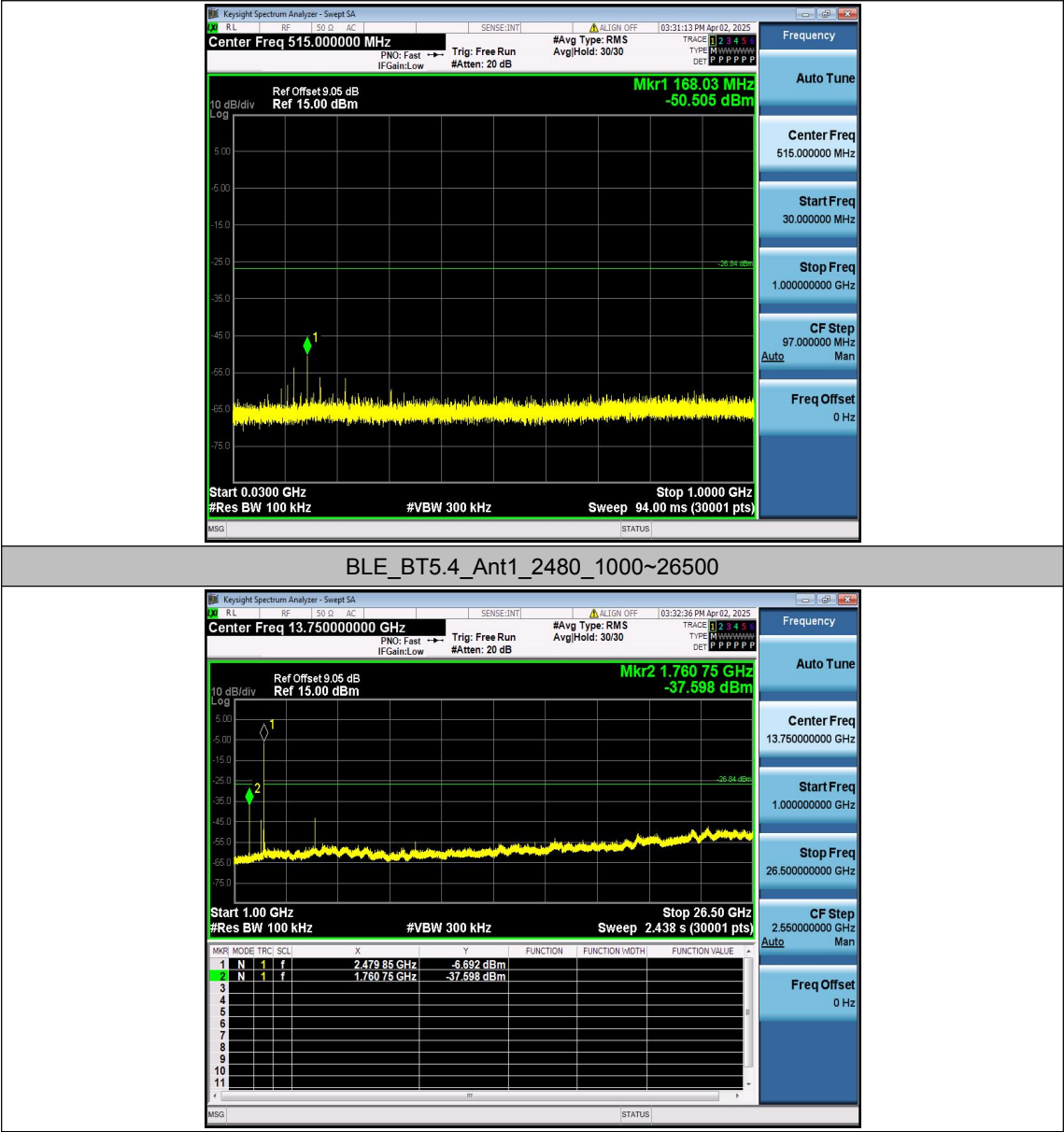
BLE_BT5.4_Ant1_2440_0~Reference



BLE_BT5.4_Ant1_2440_30~1000







Appendix B.7: Emissions in Restricted Bands

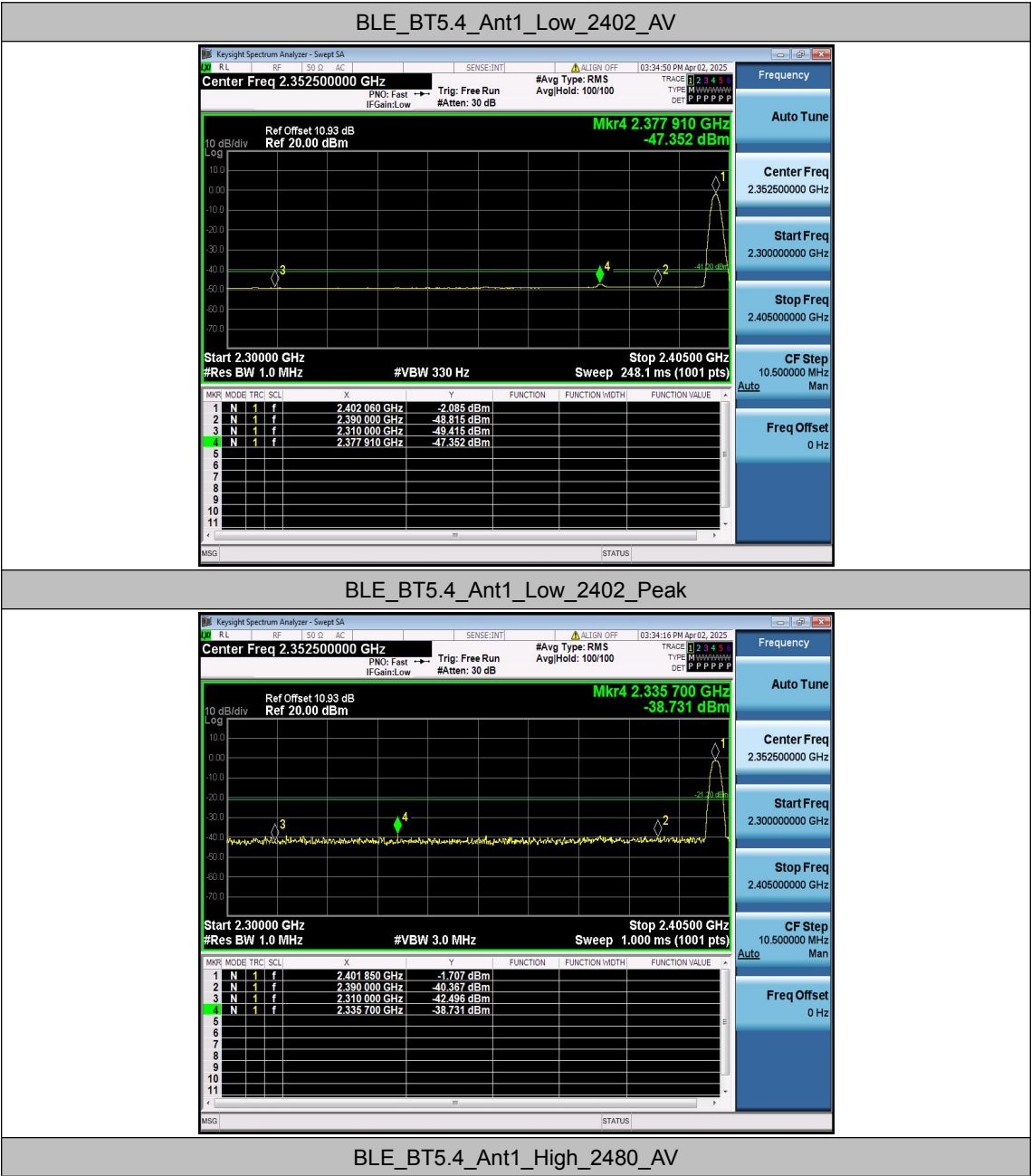
Test Result

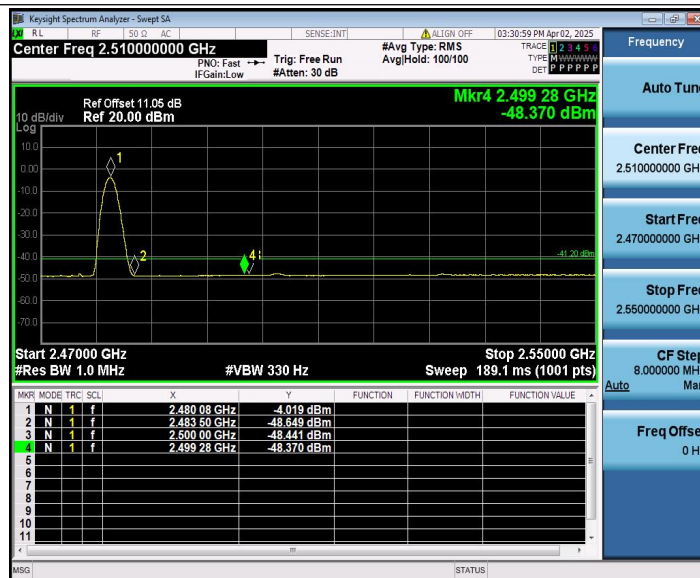
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_BT5.4	Ant1	Low	2402	AV	2310.000	-49.42	≤-41.20	45.78	≤54	PASS
				AV	2377.910	-47.35	≤-41.20	47.85	≤54	PASS
				AV	2390.000	-48.82	≤-41.20	46.38	≤54	PASS
				Peak	2310.000	-42.5	≤-21.20	52.70	≤74	PASS
				Peak	2335.700	-38.73	≤-21.20	56.47	≤74	PASS
				Peak	2390.000	-40.37	≤-21.20	54.83	≤74	PASS
		High	2480	AV	2483.500	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2499.280	-48.37	≤-41.20	46.83	≤54	PASS
				AV	2500.000	-48.44	≤-41.20	46.76	≤54	PASS
				Peak	2483.500	-40.74	≤-21.20	54.46	≤74	PASS
				Peak	2489.040	-38.76	≤-21.20	56.44	≤74	PASS
				Peak	2500.000	-40.65	≤-21.20	54.55	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. 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_BT5.4_Ant1_High_2480_Peak

