

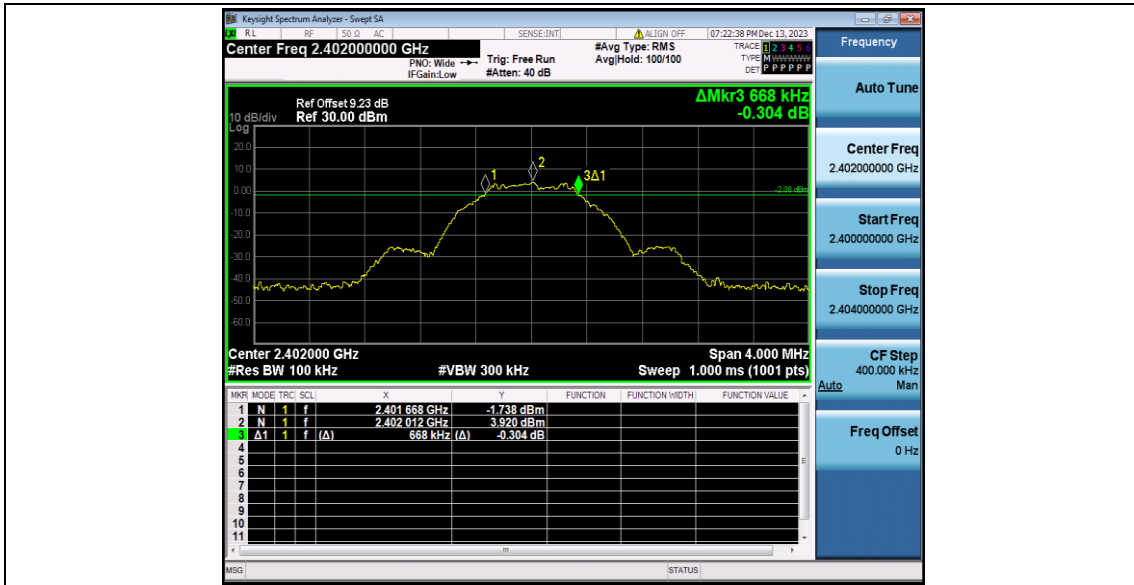
Case No. : <u>GTS20231018011-1-16</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.12.4</u> Test Engineer: <u>Evan ouyang</u>

Appendix B.1: DTS Bandwidth

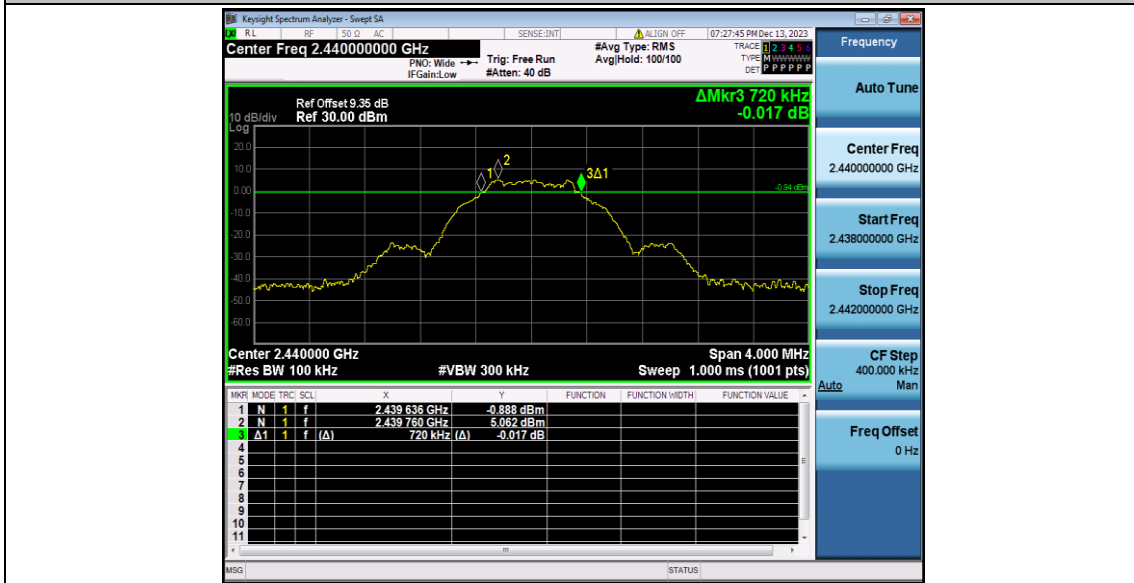
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.668	2401.668	2402.336	0.5	PASS
		2440	0.720	2439.636	2440.356	0.5	PASS
		2480	0.668	2479.660	2480.328	0.5	PASS

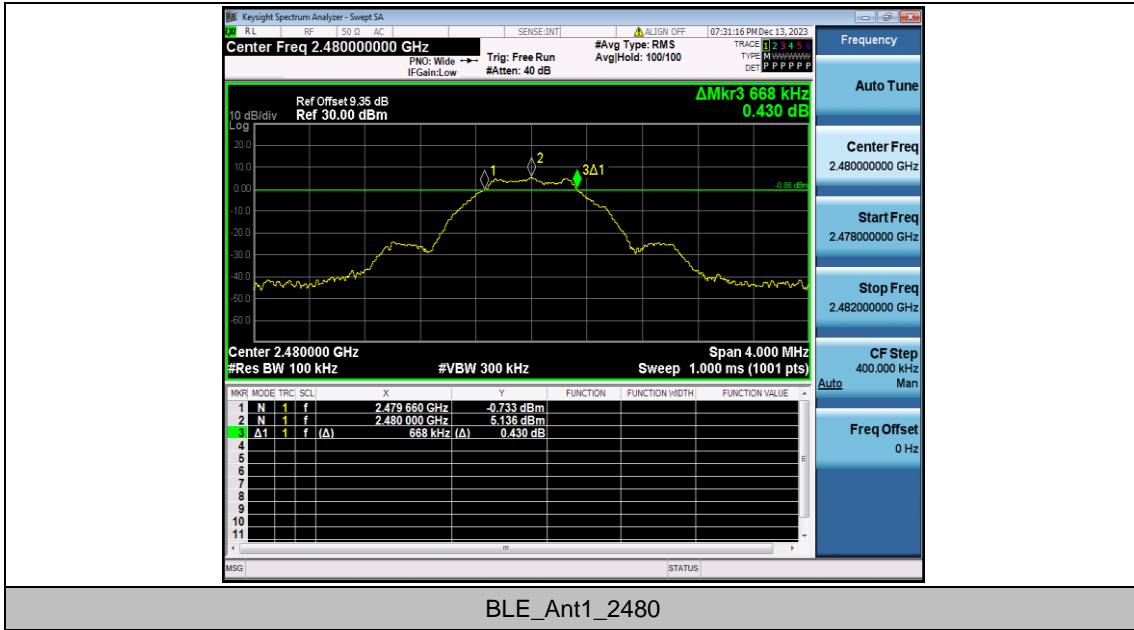
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



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	1.0373	2401.489	2402.526	---	---
		2440	1.0392	2439.488	2440.527	---	---
		2480	1.0358	2479.491	2480.527	---	---

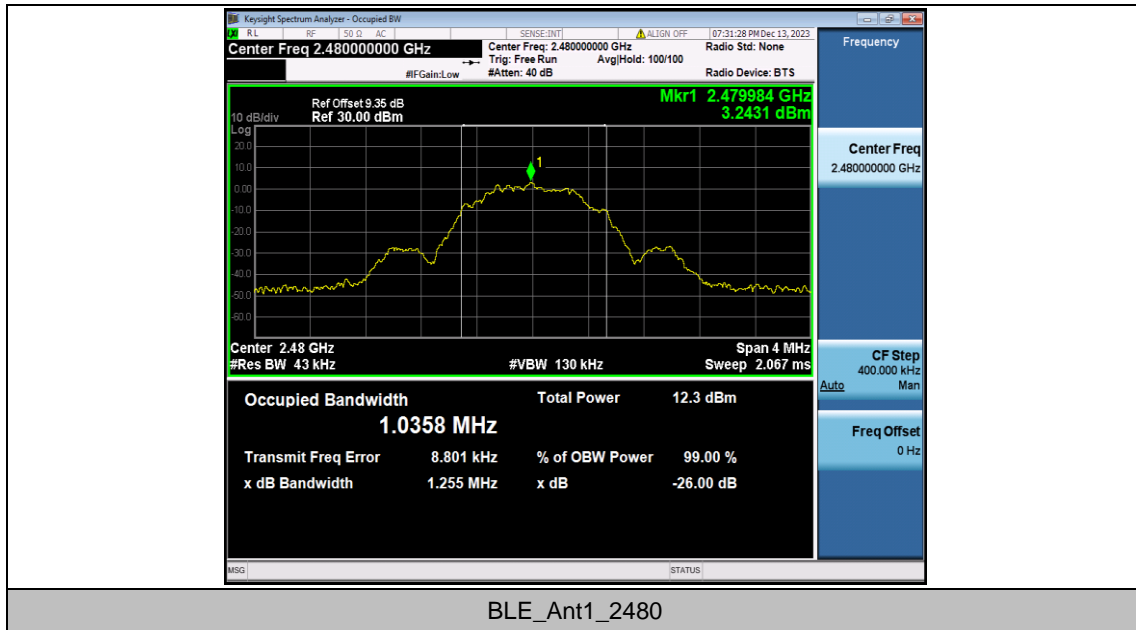
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



Appendix B.3: Maximum conducted output power

Test Result Peak

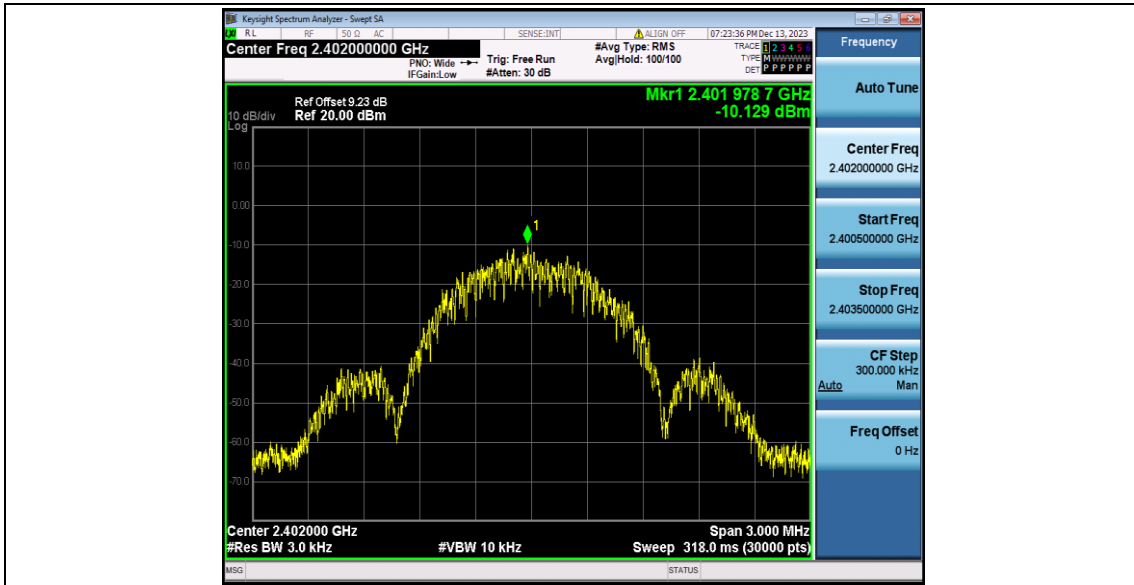
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	4.86	≤30	PASS
		2440	6.26	≤30	PASS
		2480	5.88	≤30	PASS

Appendix B.4: Maximum power spectral density

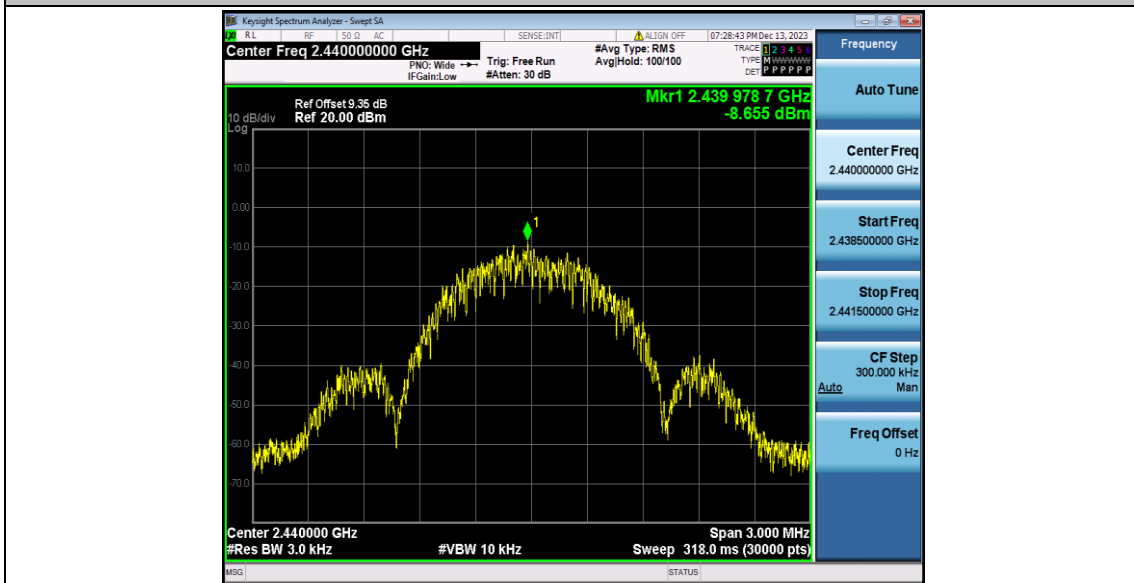
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-10.13	≤8.00	PASS
		2440	-8.66	≤8.00	PASS
		2480	-9.04	≤8.00	PASS

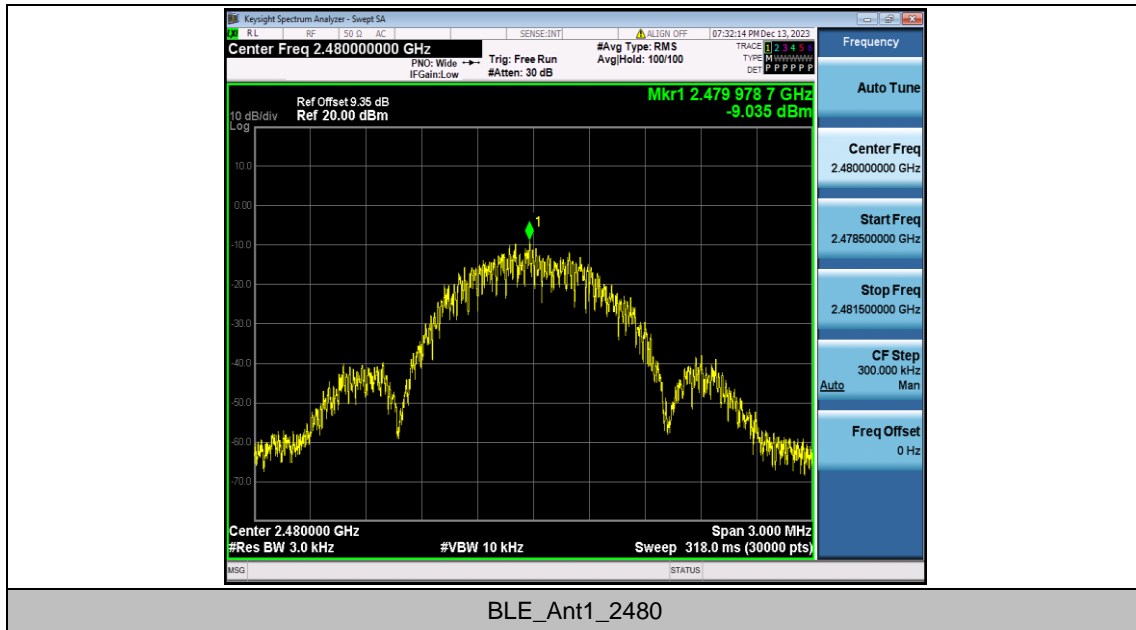
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440

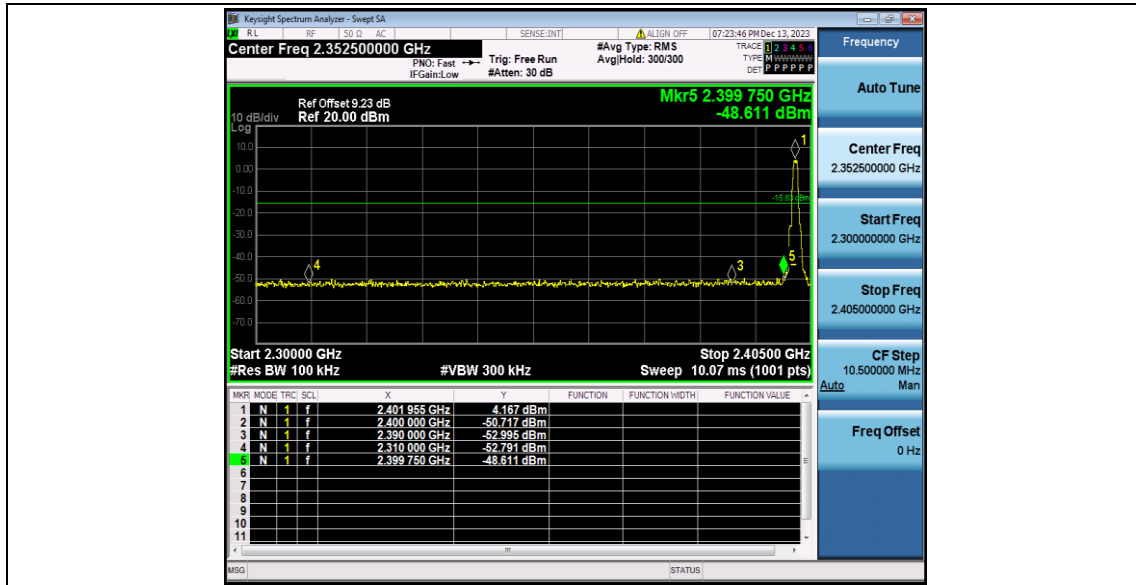


Appendix B.5: Band edge measurements

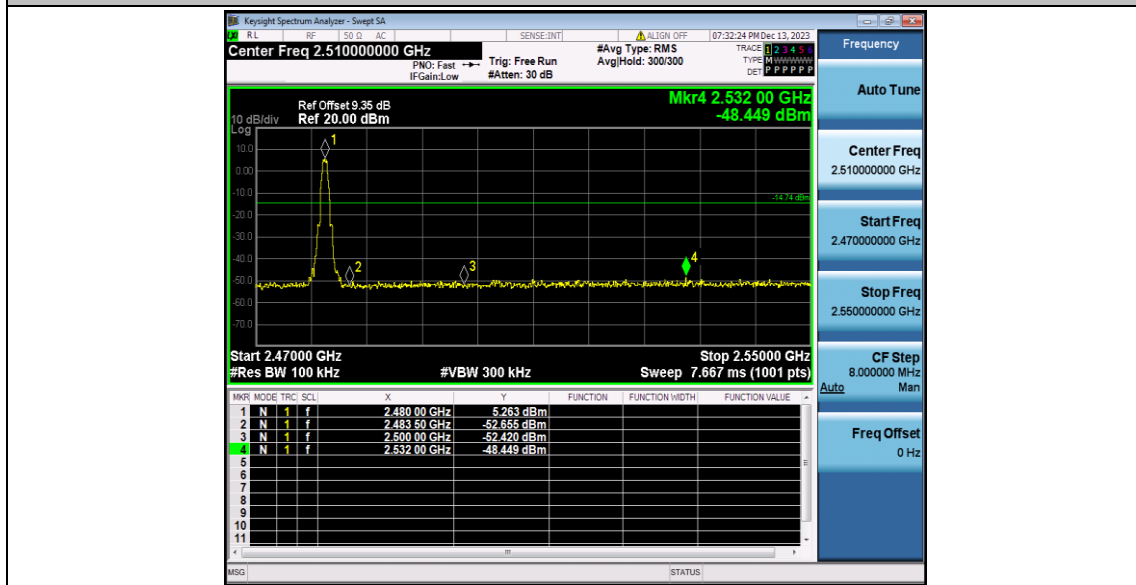
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	4.17	-48.61	≤-15.83	PASS
		High	2480	5.26	-48.45	≤-14.74	PASS

Test Graphs



BLE_Ant1_Low_2402



BLE_Ant1_High_2480

Appendix B.6: Conducted Spurious Emission

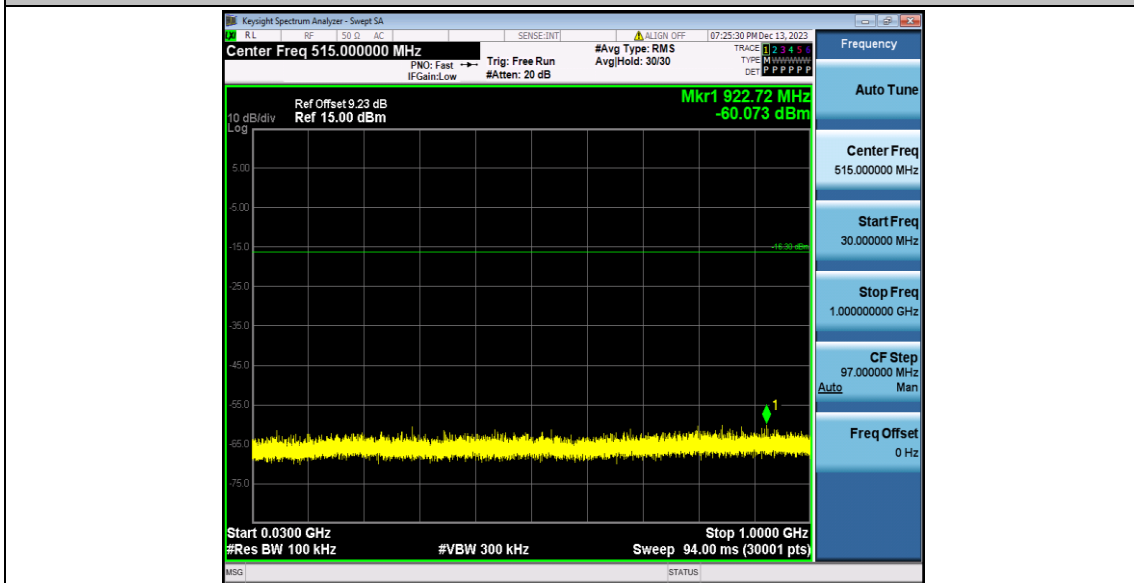
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	3.70	3.70	---	PASS
			30~1000	3.70	-60.07	≤ -16.3	PASS
			1000~26500	3.70	-46.81	≤ -16.3	PASS
		2440	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-60.46	≤ -15.83	PASS
			1000~26500	4.17	-47.25	≤ -15.83	PASS
		2480	Reference	4.69	4.69	---	PASS
			30~1000	4.69	-60.47	≤ -15.31	PASS
			1000~26500	4.69	-47.61	≤ -15.31	PASS

Test Graphs



BLE_Ant1_2402_0~Reference



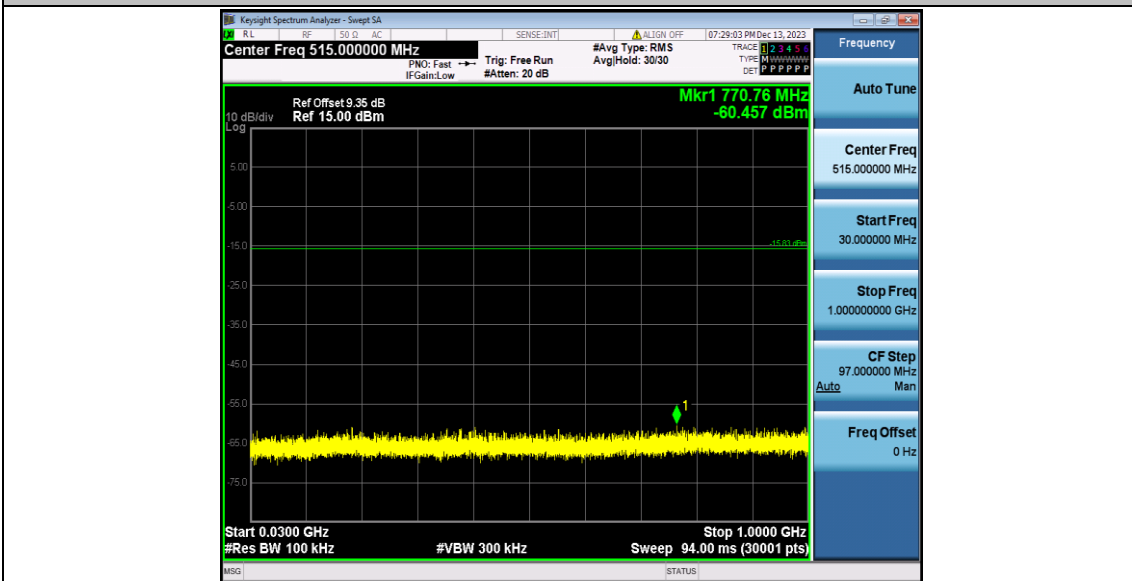
BLE_Ant1_2402_30~1000



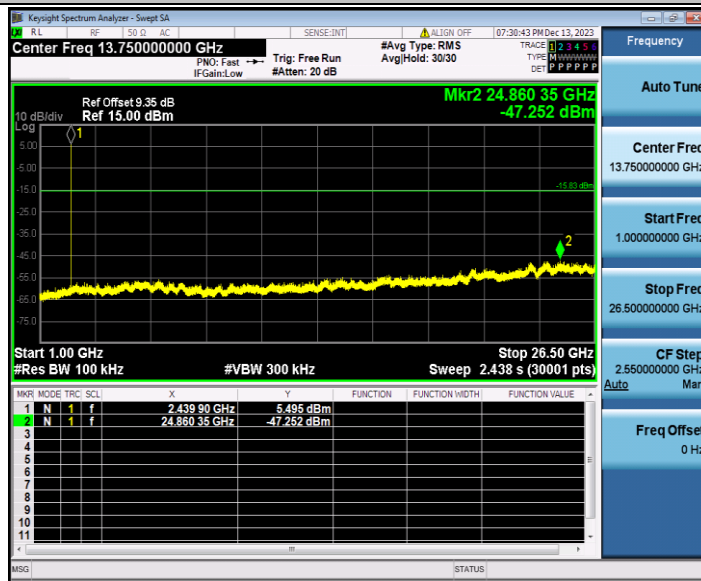
BLE_Ant1_2402_1000~26500



BLE_Ant1_2440_0~Reference



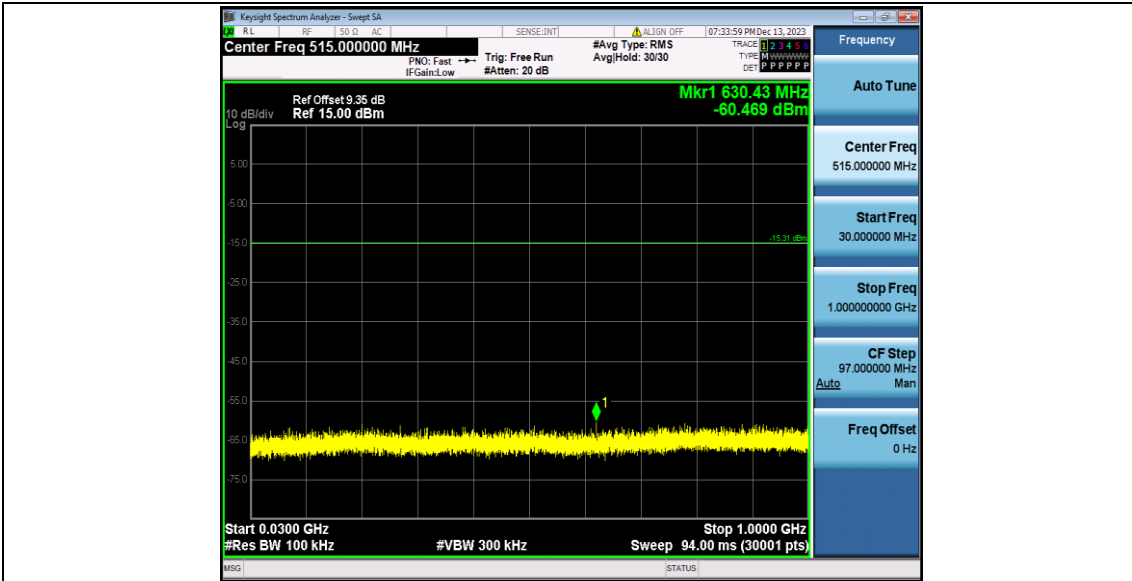
BLE_Ant1_2440_30~1000



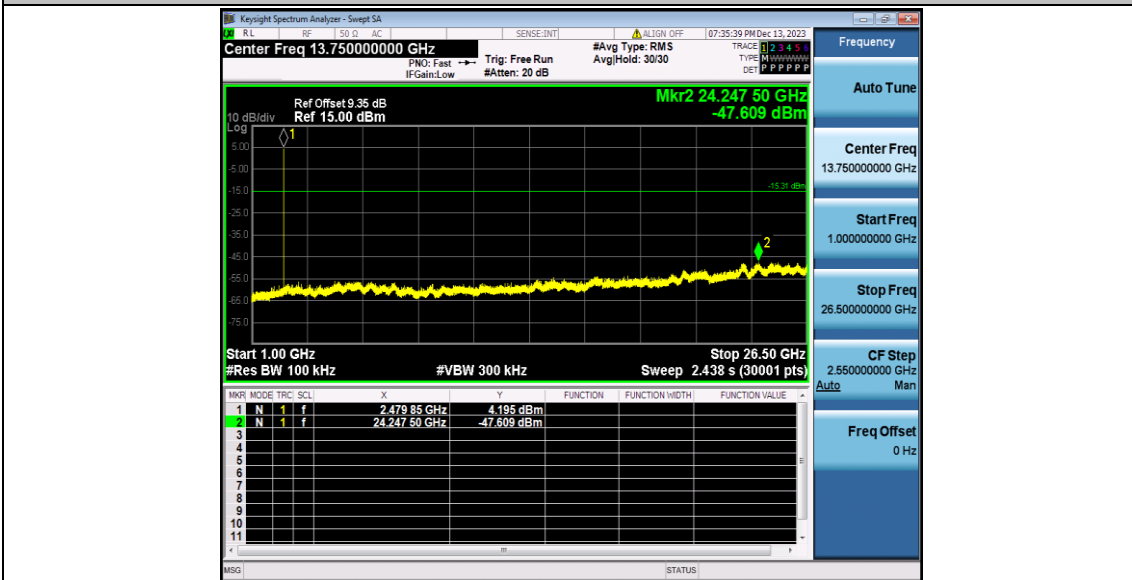
BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500

Appendix B.7: Emissions in Restricted Bands

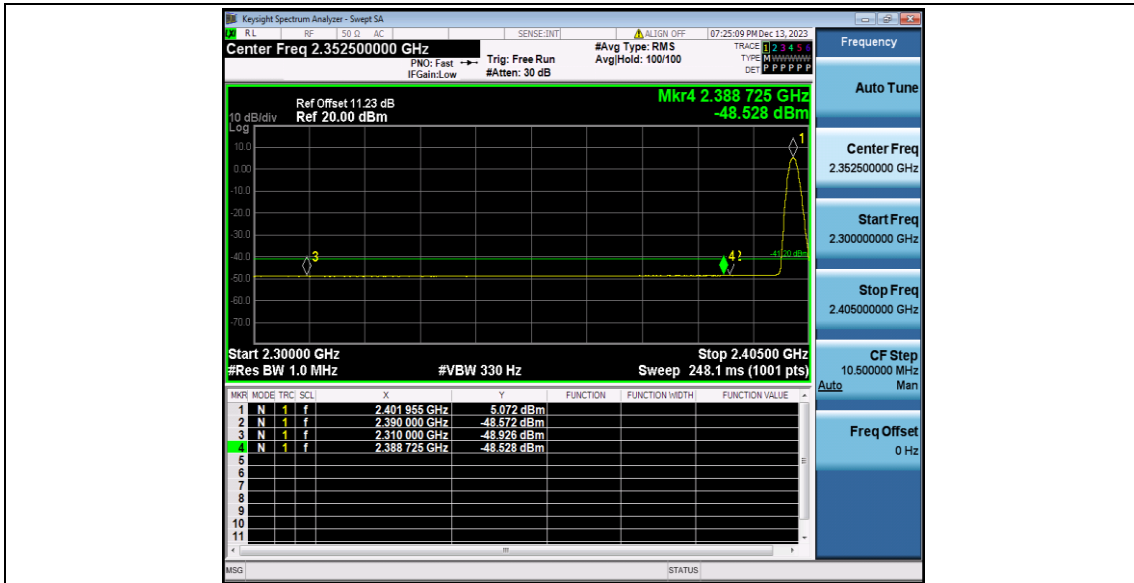
Test Result

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	-48.93	≤-41.20	46.27	≤54	PASS
				AV	2388.725	-48.53	≤-41.20	46.67	≤54	PASS
				AV	2390.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	2310.000	-41.6	≤-21.20	53.60	≤74	PASS
				Peak	2374.340	-38.02	≤-21.20	57.18	≤74	PASS
				Peak	2390.000	-40.63	≤-21.20	54.57	≤74	PASS
		High	2480	AV	2483.500	-47.19	≤-41.20	48.01	≤54	PASS
				AV	2483.520	-47.19	≤-41.20	48.01	≤54	PASS
				AV	2500.000	-48.26	≤-41.20	46.94	≤54	PASS
				Peak	2483.500	-42.18	≤-21.20	53.02	≤74	PASS
				Peak	2488.960	-38.72	≤-21.20	56.48	≤74	PASS
				Peak	2500.000	-42	≤-21.20	53.20	≤74	PASS

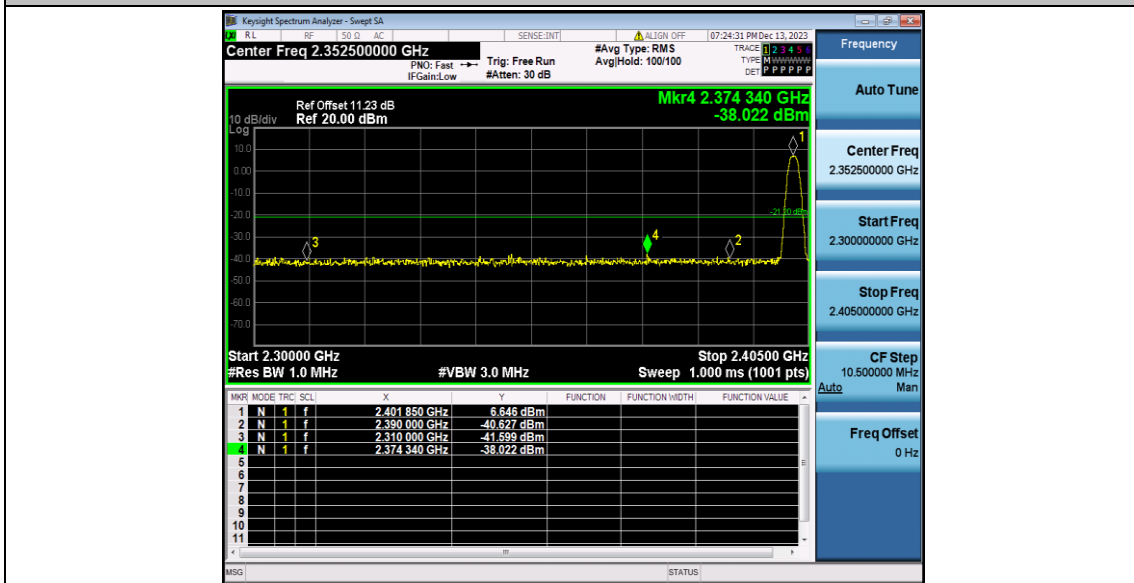
Note:

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.

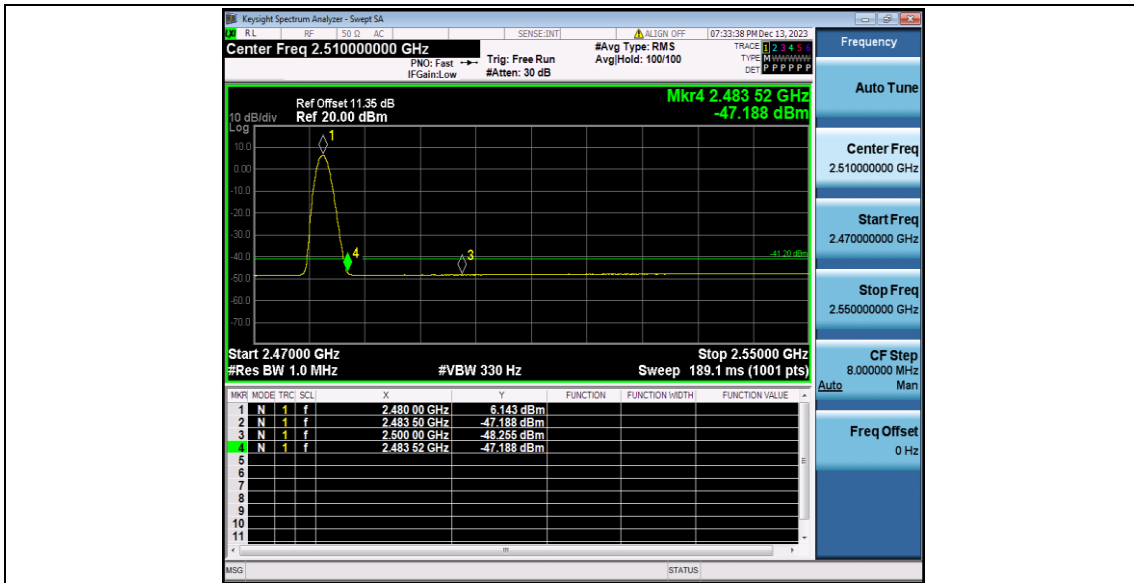
Test Graphs



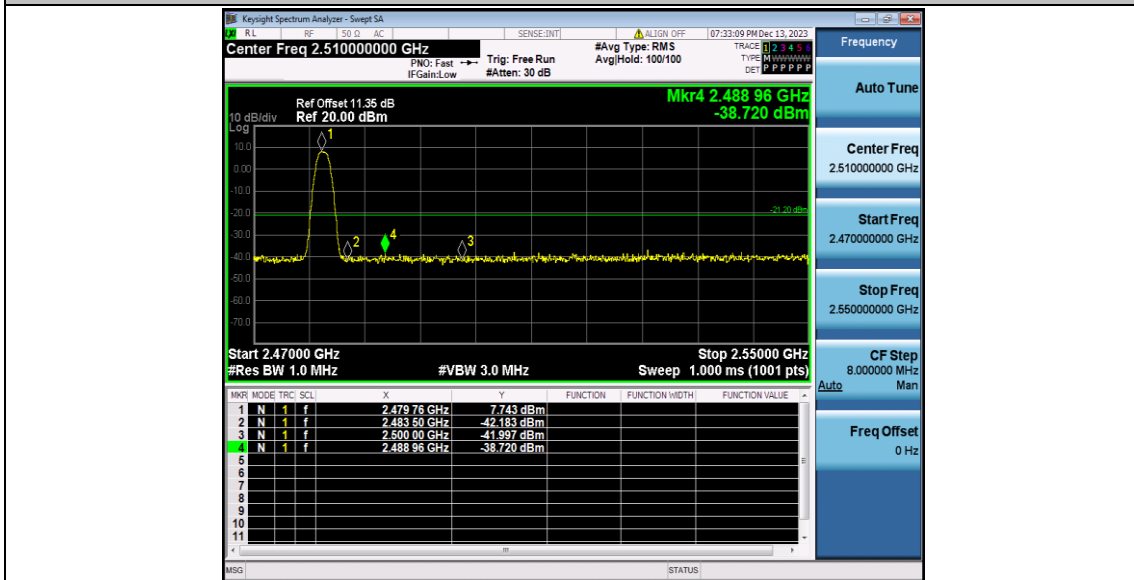
BLE_Ant1_Low_2402_AV



BLE_Ant1_Low_2402_Peak



BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak