

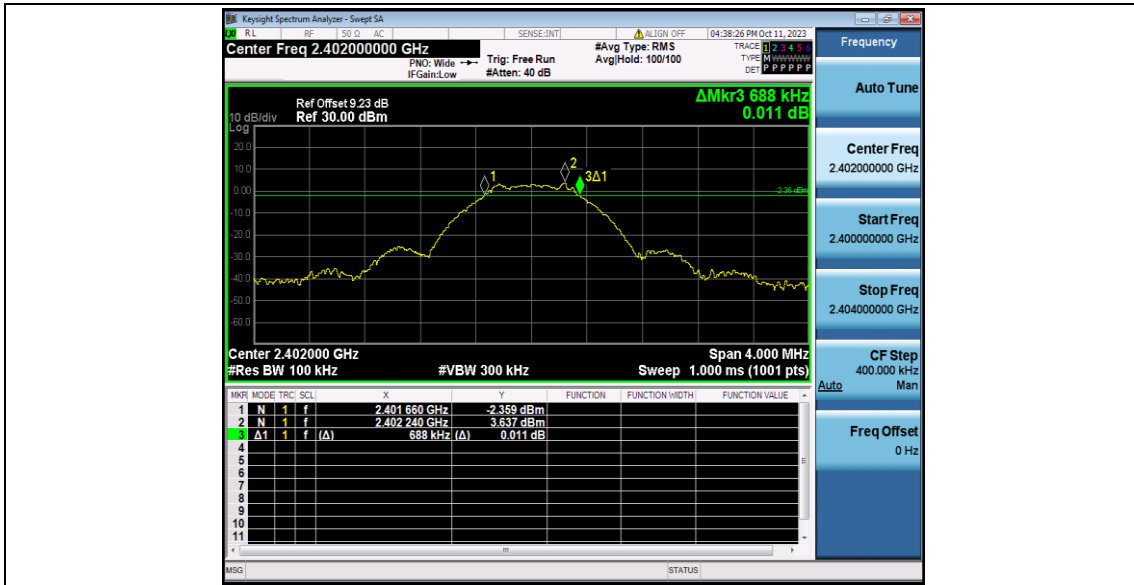
<b>Case No. :</b> <u>GTS20230914005-1-10</u>
<b>Ambient Condition:</b> <u>24</u> °C, <u>52</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2023.9.27</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

## 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	0.688	2401.660	2402.348	0.5	PASS
		2440	0.668	2439.668	2440.336	0.5	PASS
		2480	0.700	2479.652	2480.352	0.5	PASS

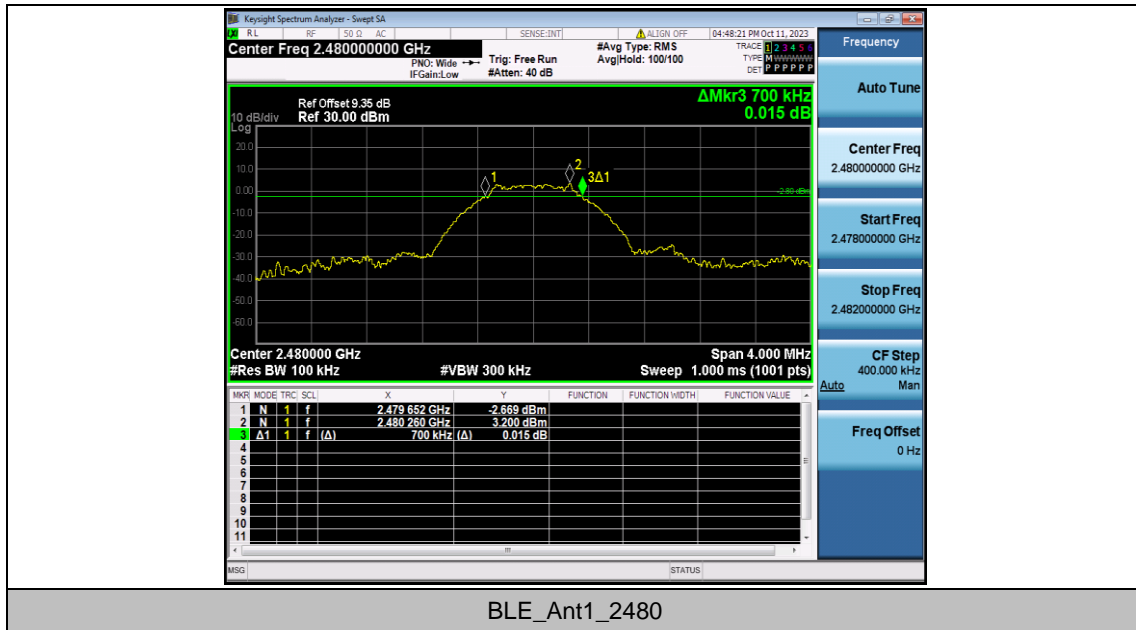
## Test Graphs



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	1.0443	2401.482	2402.527	---	---
		2440	1.0536	2439.483	2440.536	---	---
		2480	1.0365	2479.490	2480.527	---	---

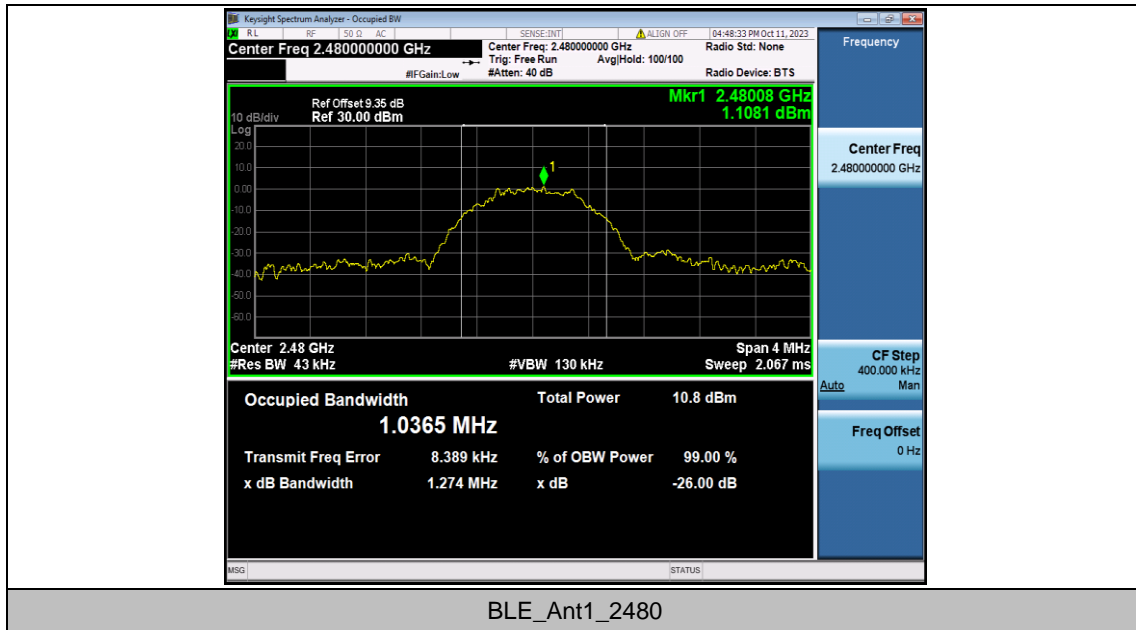
## Test Graphs



BLE\_Ant1\_2402



BLE\_Ant1\_2440



BLE\_Ant1\_2480

## 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	4.29	≤30	PASS
		2440	4.68	≤30	PASS
		2480	4.34	≤30	PASS

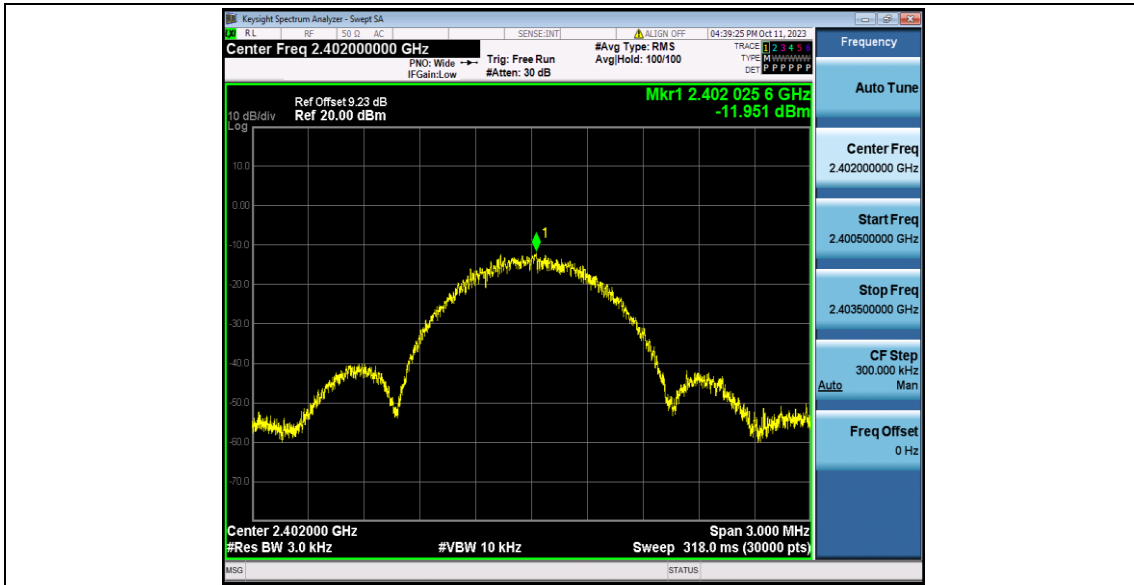
## Appendix B.4: Maximum power spectral density

### Test Result

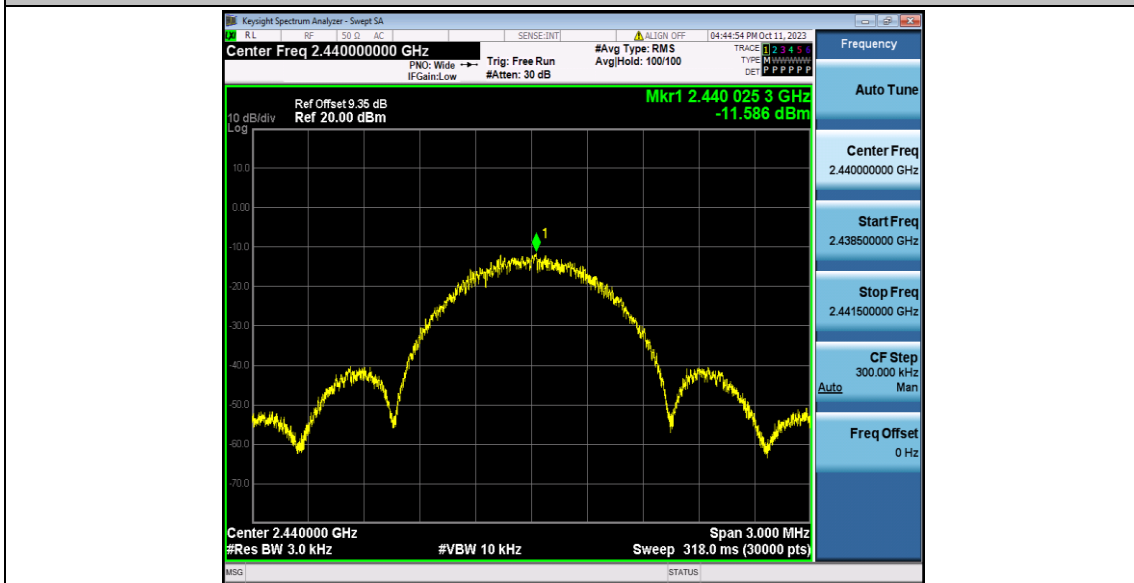
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-11.95	≤8.00	PASS
		2440	-11.59	≤8.00	PASS
		2480	-11.72	≤8.00	PASS



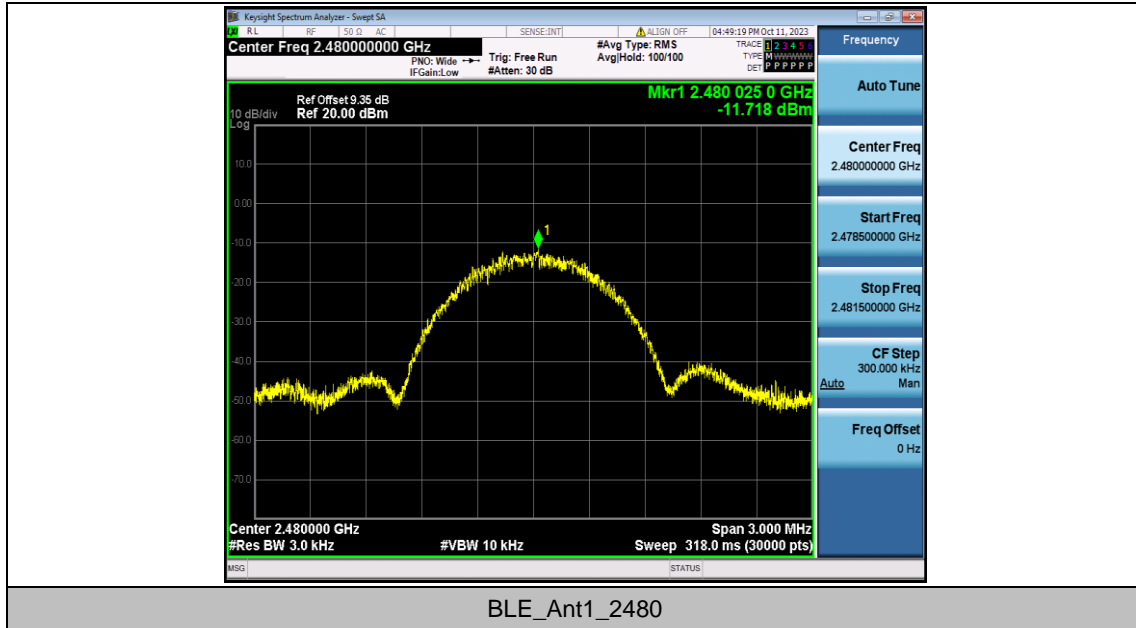
## Test Graphs



BLE\_Ant1\_2402



BLE\_Ant1\_2440

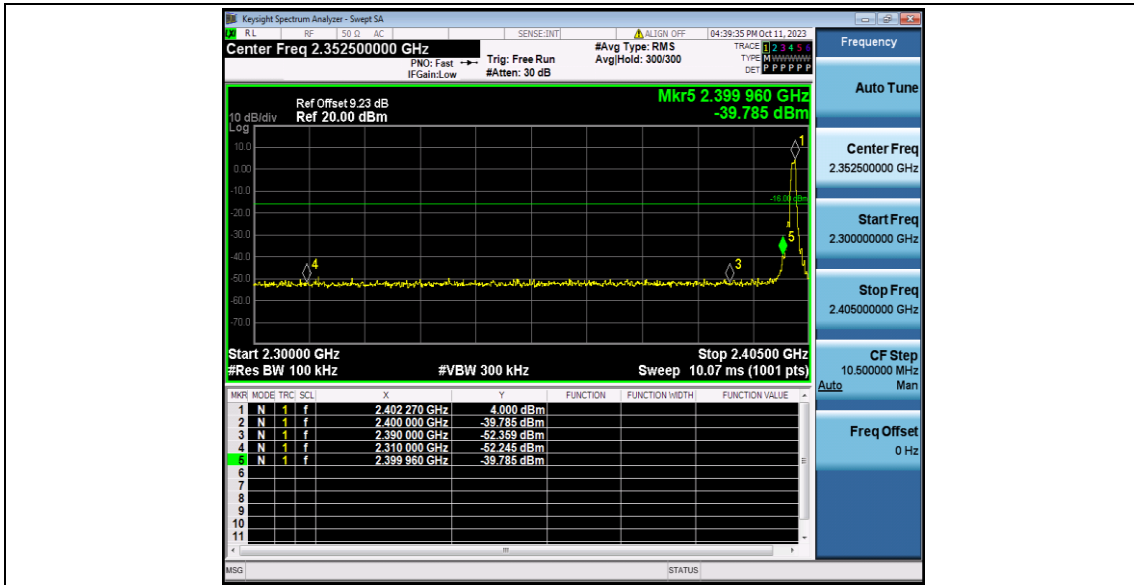


## Appendix B.5: Band edge measurements

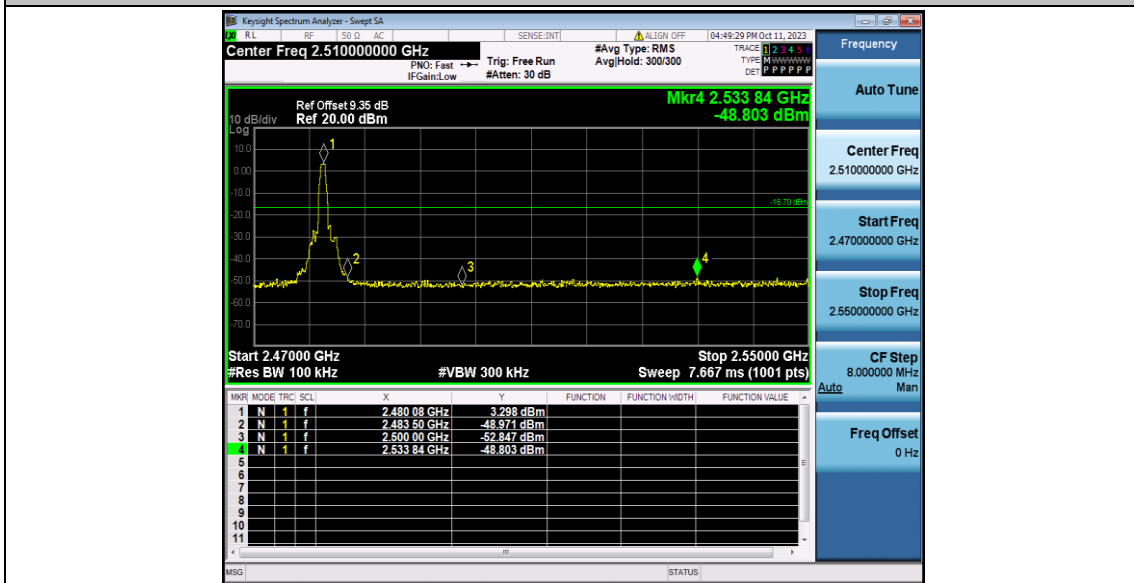
### Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	4.00	-39.79	≤-16	PASS
		High	2480	3.30	-48.8	≤-16.7	PASS

## Test Graphs



BLE\_Ant1\_Low\_2402



BLE\_Ant1\_High\_2480

## Appendix B.6: Conducted Spurious Emission

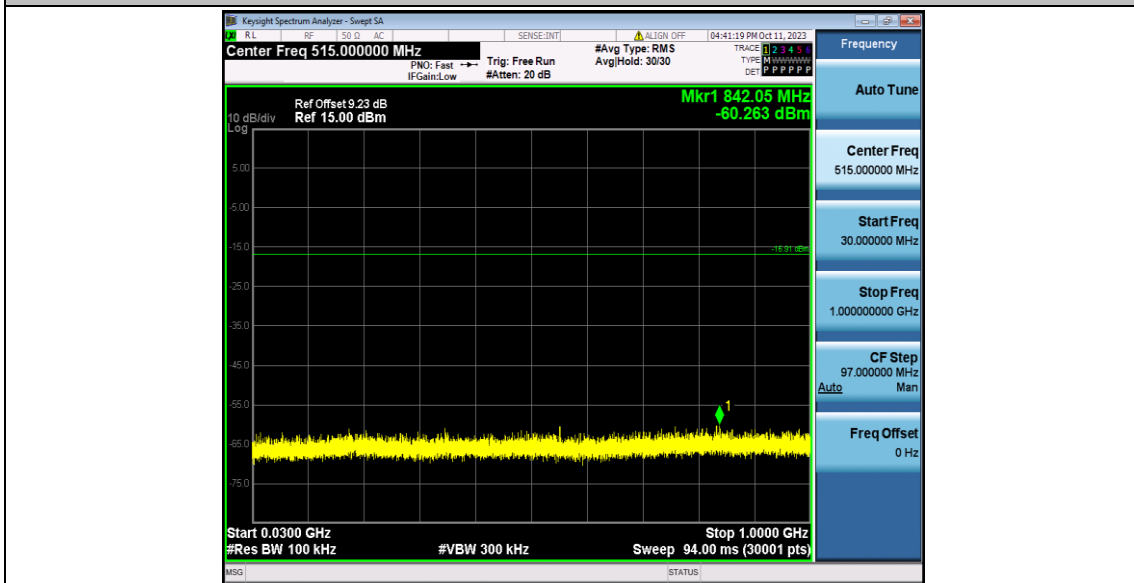
### Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	3.09	3.09	---	PASS
			30~1000	3.09	-60.26	$\leq -16.91$	PASS
			1000~26500	3.09	-47.4	$\leq -16.91$	PASS
		2440	Reference	3.32	3.32	---	PASS
			30~1000	3.32	-59.09	$\leq -16.68$	PASS
			1000~26500	3.32	-47.58	$\leq -16.68$	PASS
		2480	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-60.38	$\leq -16.75$	PASS
			1000~26500	3.25	-47.39	$\leq -16.75$	PASS

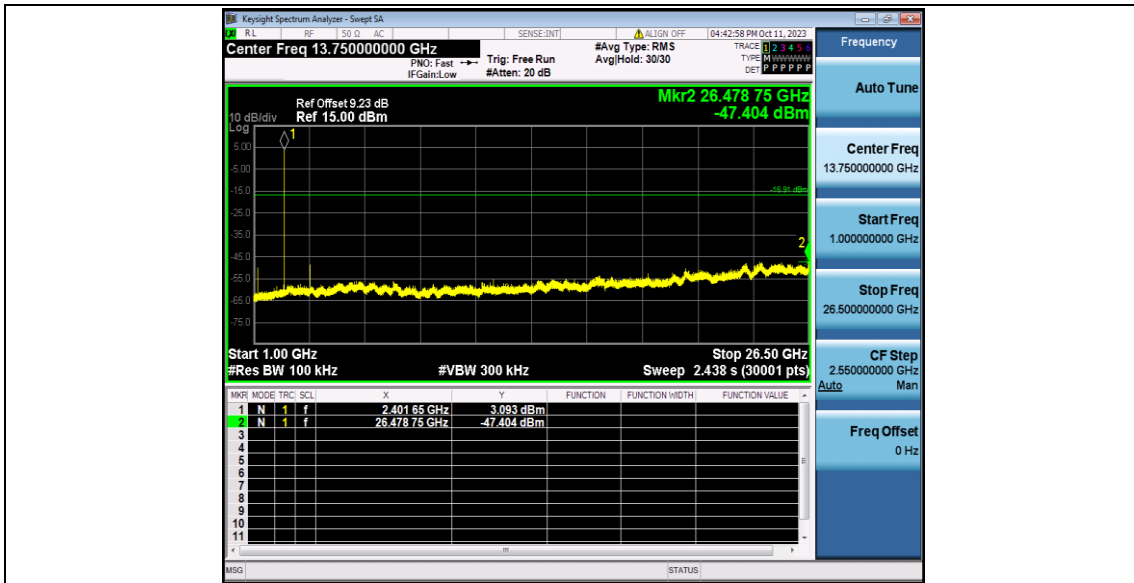
## Test Graphs



BLE\_Ant1\_2402\_0~Reference



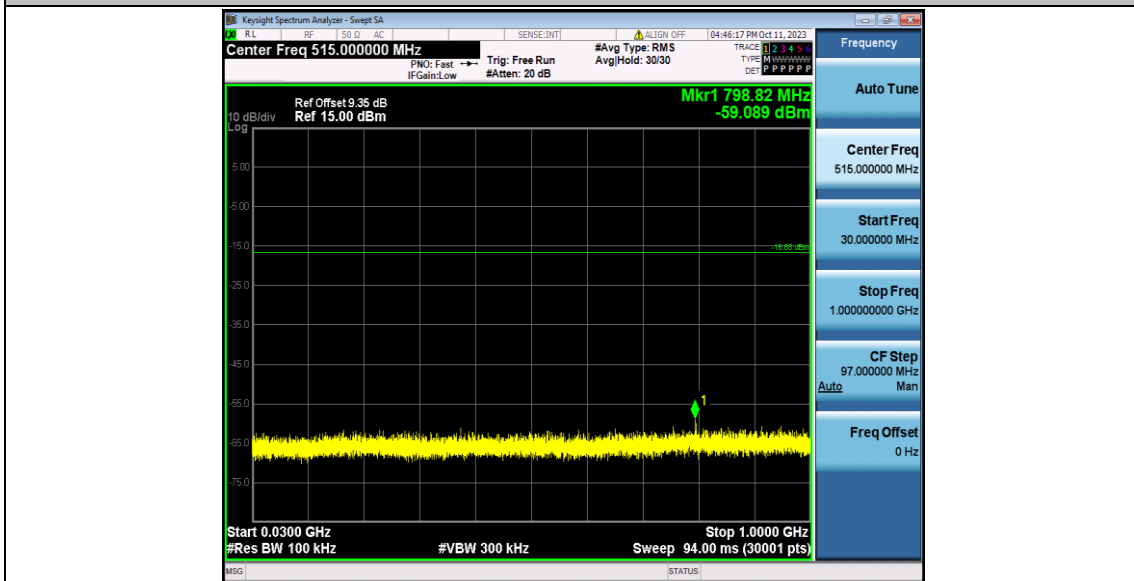
BLE\_Ant1\_2402\_30~1000



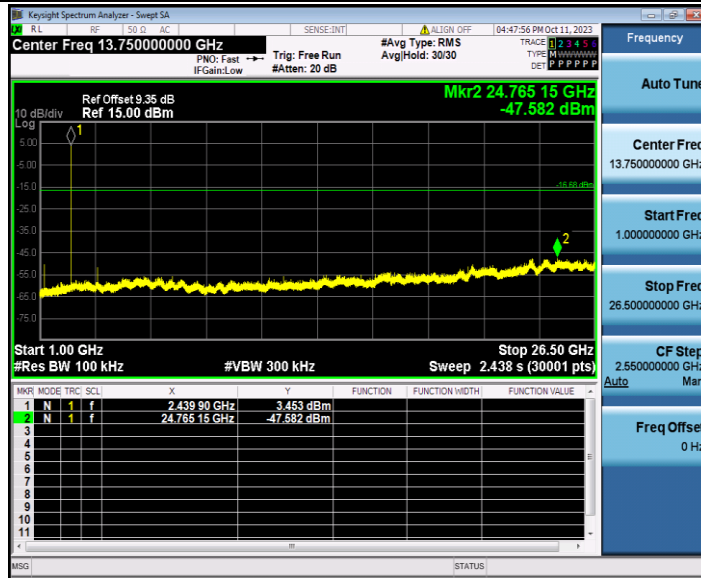
BLE\_Ant1\_2402\_1000~26500



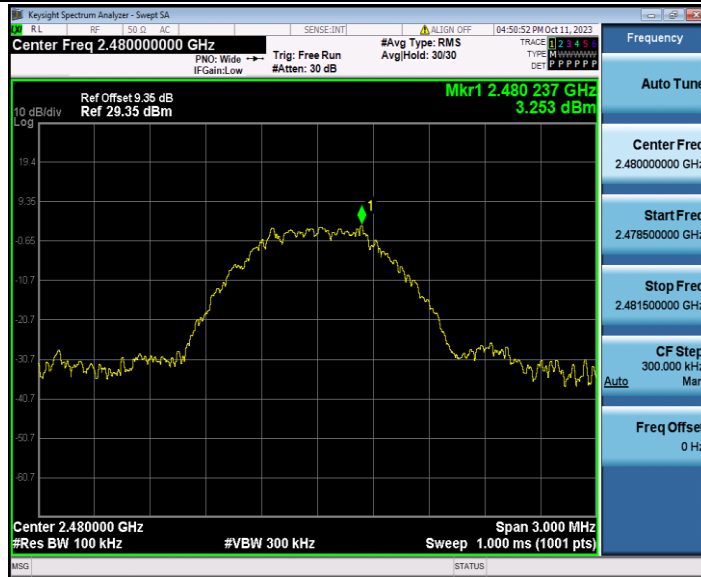
BLE\_Ant1\_2440\_0~Reference



BLE\_Ant1\_2440\_30~1000

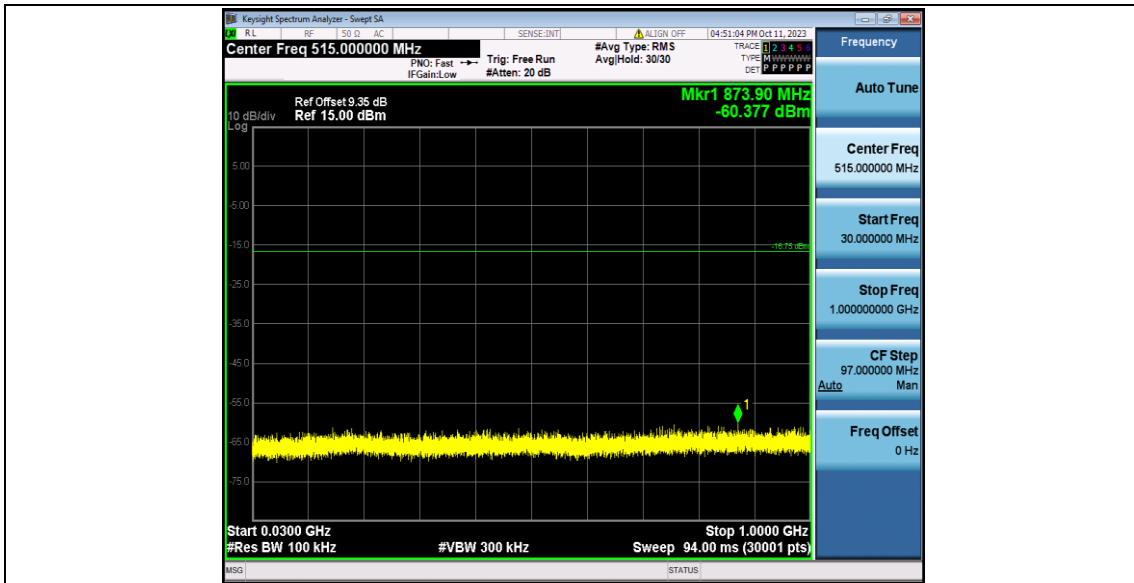


BLE\_Ant1\_2440\_1000~26500

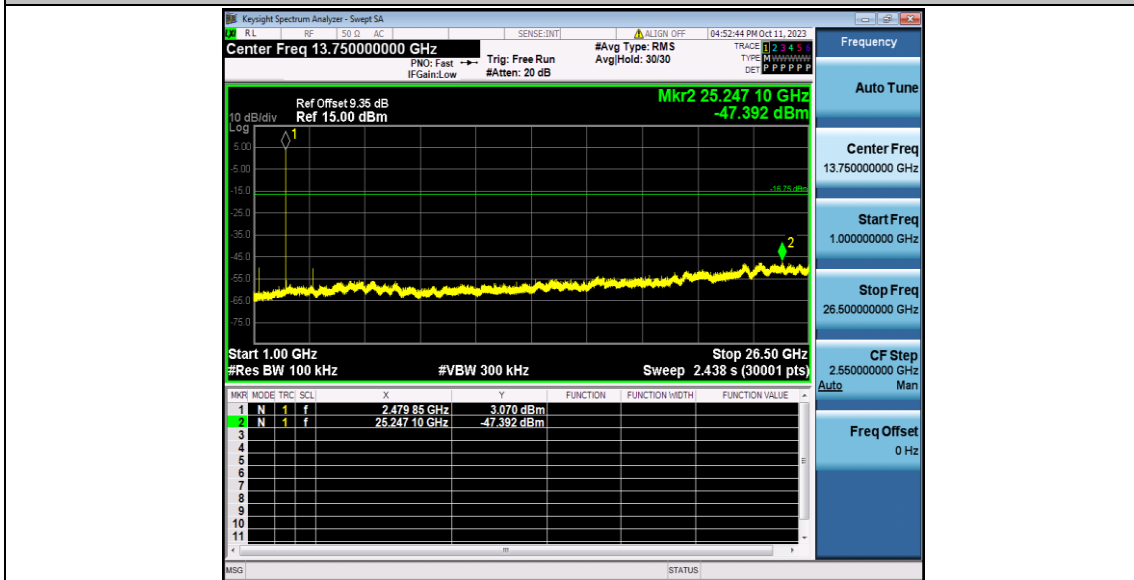


BLE\_Ant1\_2480\_0~Reference





BLE\_Ant1\_2480\_30~1000



BLE\_Ant1\_2480\_1000~26500

## Appendix B.7: Emissions in Restricted Bands

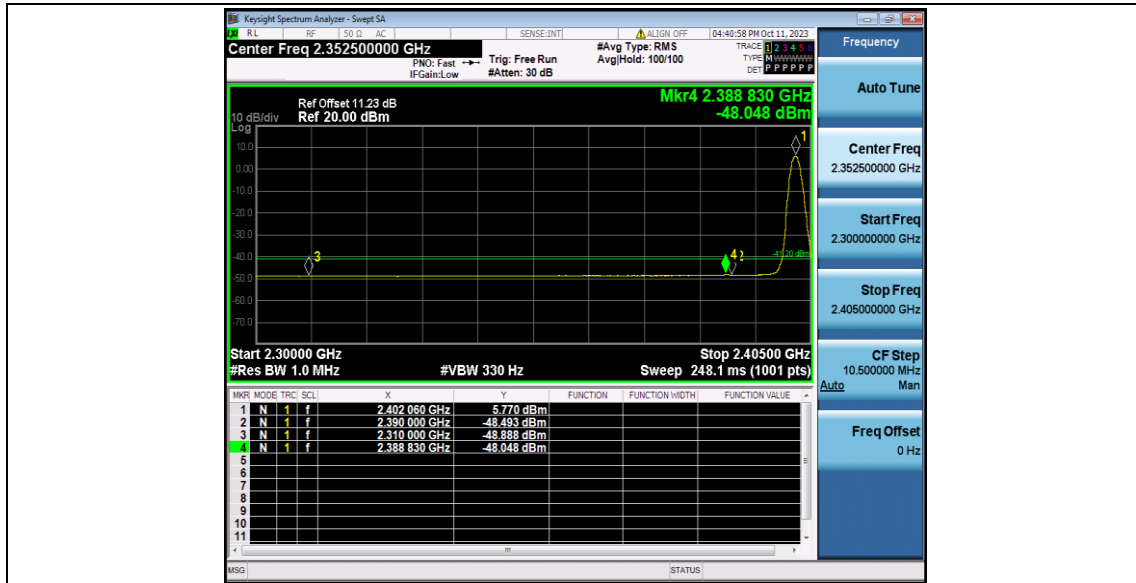
### Test Result

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	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2388.830	-48.05	≤-41.20	47.15	≤54	PASS
				AV	2390.000	-48.49	≤-41.20	46.71	≤54	PASS
				Peak	2310.000	-41.24	≤-21.20	53.96	≤74	PASS
				Peak	2380.115	-38.99	≤-21.20	56.21	≤74	PASS
				Peak	2390.000	-41.02	≤-21.20	54.18	≤74	PASS
		High	2480	AV	2483.500	-43.15	≤-41.20	52.05	≤54	PASS
				AV	2483.520	-43.15	≤-41.20	52.05	≤54	PASS
				AV	2500.000	-48.27	≤-41.20	46.93	≤54	PASS
				Peak	2483.500	-36.22	≤-21.20	58.98	≤74	PASS
				Peak	2483.520	-36.22	≤-21.20	58.98	≤74	PASS
				Peak	2500.000	-40.84	≤-21.20	54.36	≤74	PASS

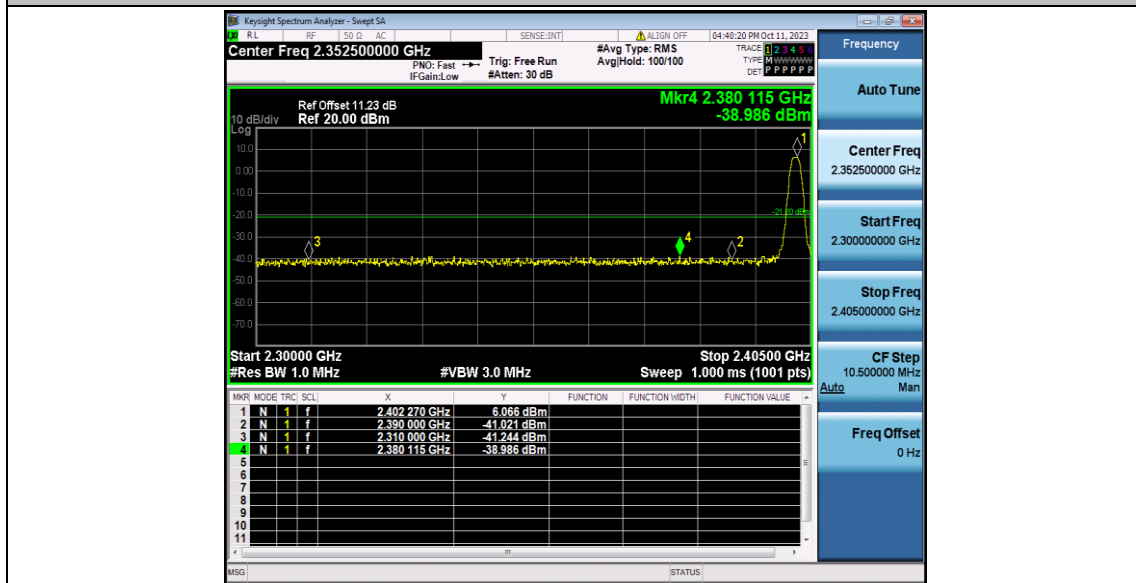
Note:

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.

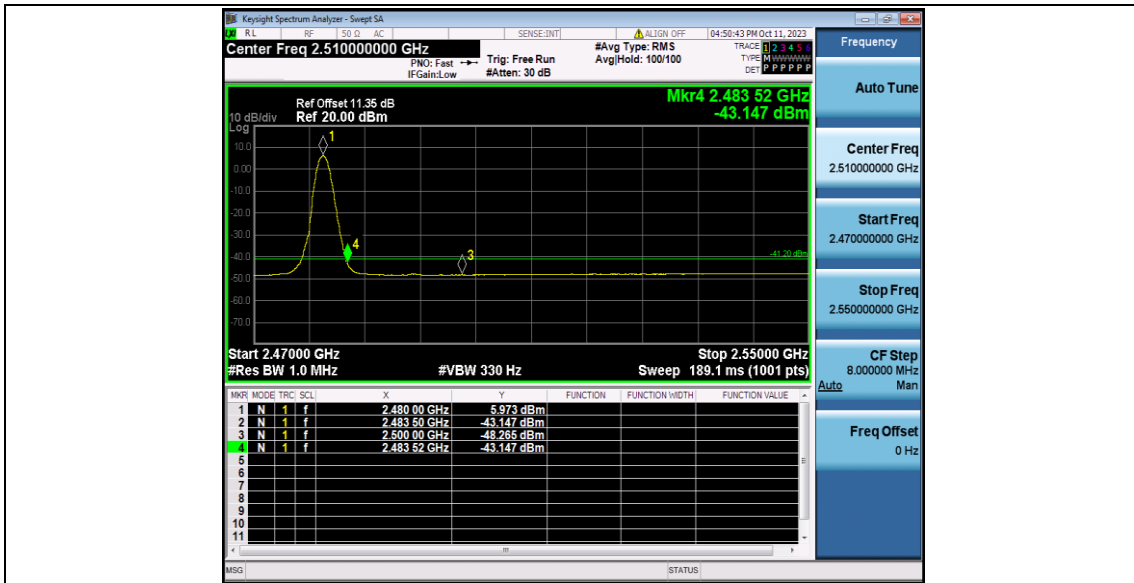
## Test Graphs



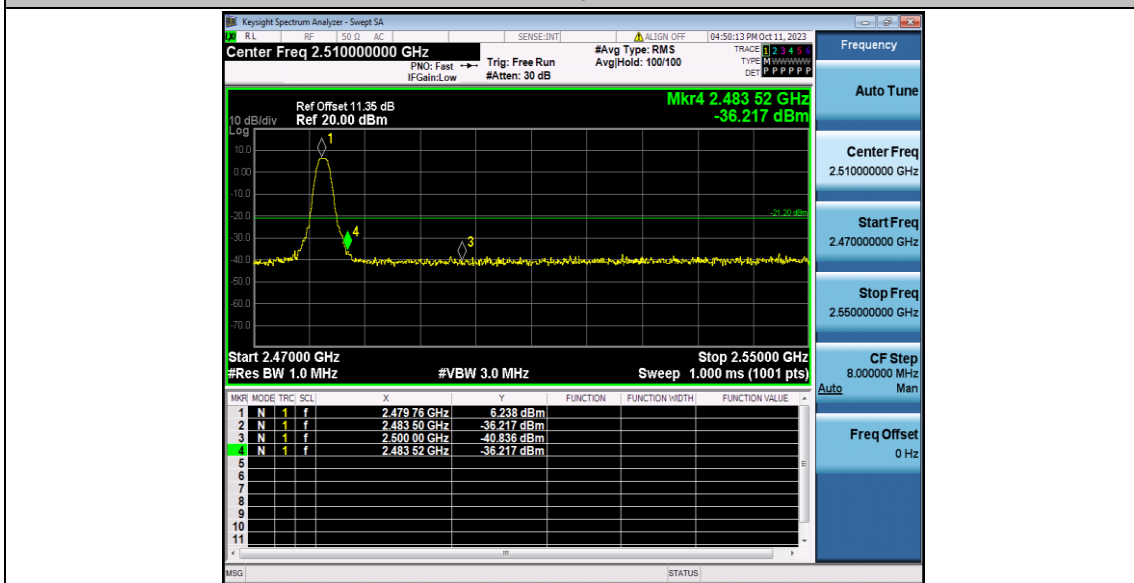
BLE\_Ant1\_Low\_2402\_AV



BLE\_Ant1\_Low\_2402\_Peak



BLE\_Ant1\_High\_2480\_AV



BLE\_Ant1\_High\_2480\_Peak