

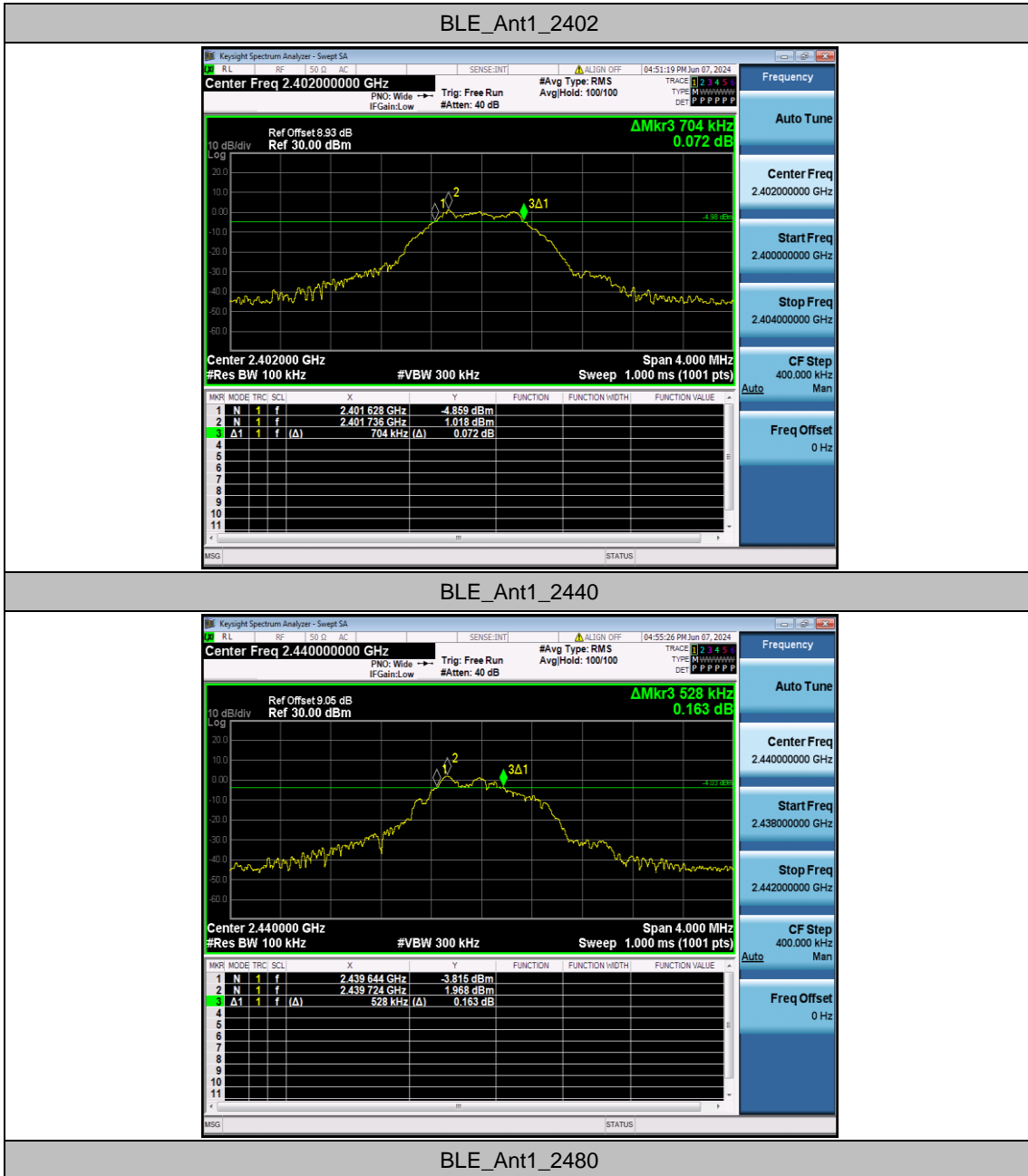
<b>Case No. :</b> <u>CTA24053000102</u>
<b>Ambient Condition:</b> <u>23 °C, 48 %RH</u>
<b>According Standard:</b> <u>■Part15C</u>
<b>Test Date:</b> <u>2024.6.5</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

## Appendix B.1: DTS Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.704	2401.628	2402.332	0.5	PASS
		2440	0.528	2439.644	2440.172	0.5	PASS
		2480	0.712	2479.620	2480.332	0.5	PASS

## Test Graphs



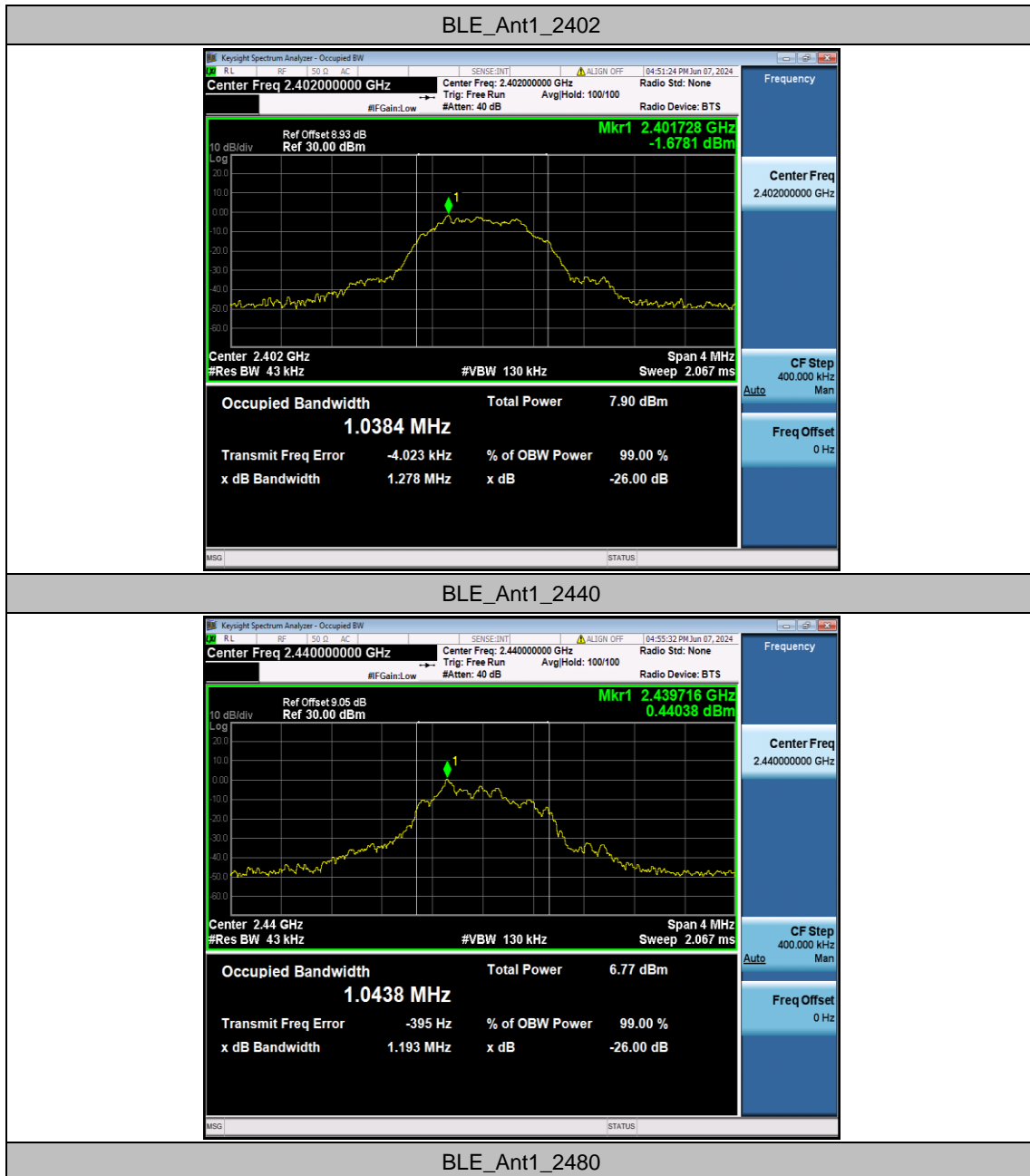


## Appendix B.2: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
BLE	Ant1	2402	1.0384	2401.4768	2402.5152
		2440	1.0438	2439.4777	2440.5215
		2480	1.0417	2479.4721	2480.5138

## 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	Ant1	2402	1.59	≤30	PASS
		2440	2.48	≤30	PASS
		2480	1.69	≤30	PASS

## Appendix B.4: Maximum power spectral density

### Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-13.87	≤8.00	PASS
		2440	-15.25	≤8.00	PASS
		2480	-14.53	≤8.00	PASS

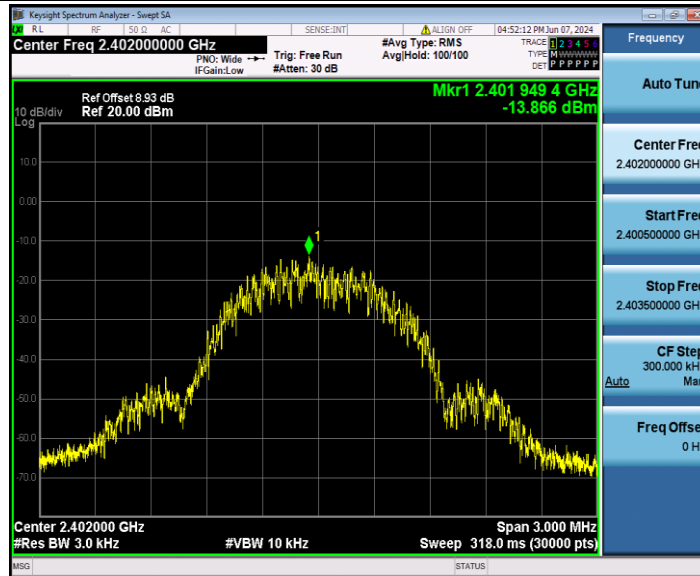
Note:

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

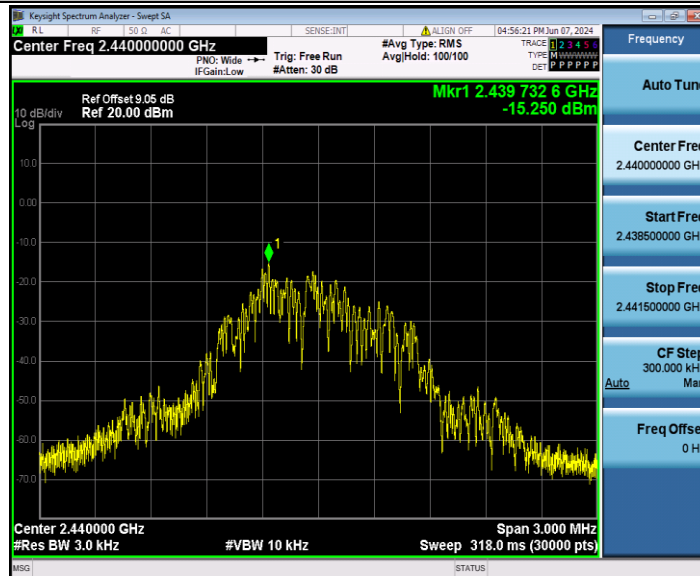


## Test Graphs

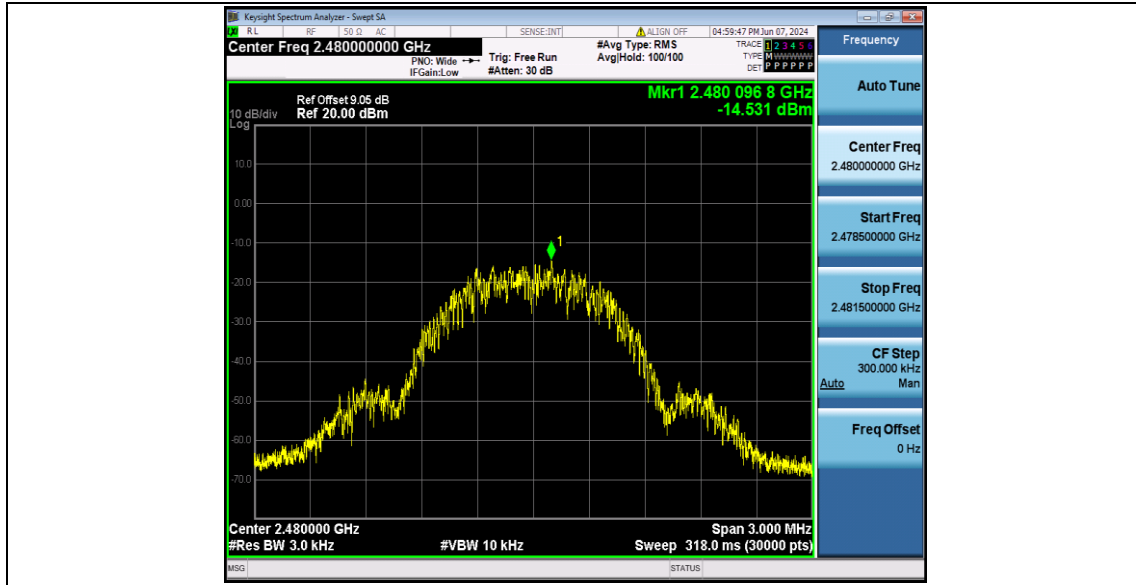
BLE\_Ant1\_2402



BLE\_Ant1\_2440



BLE\_Ant1\_2480

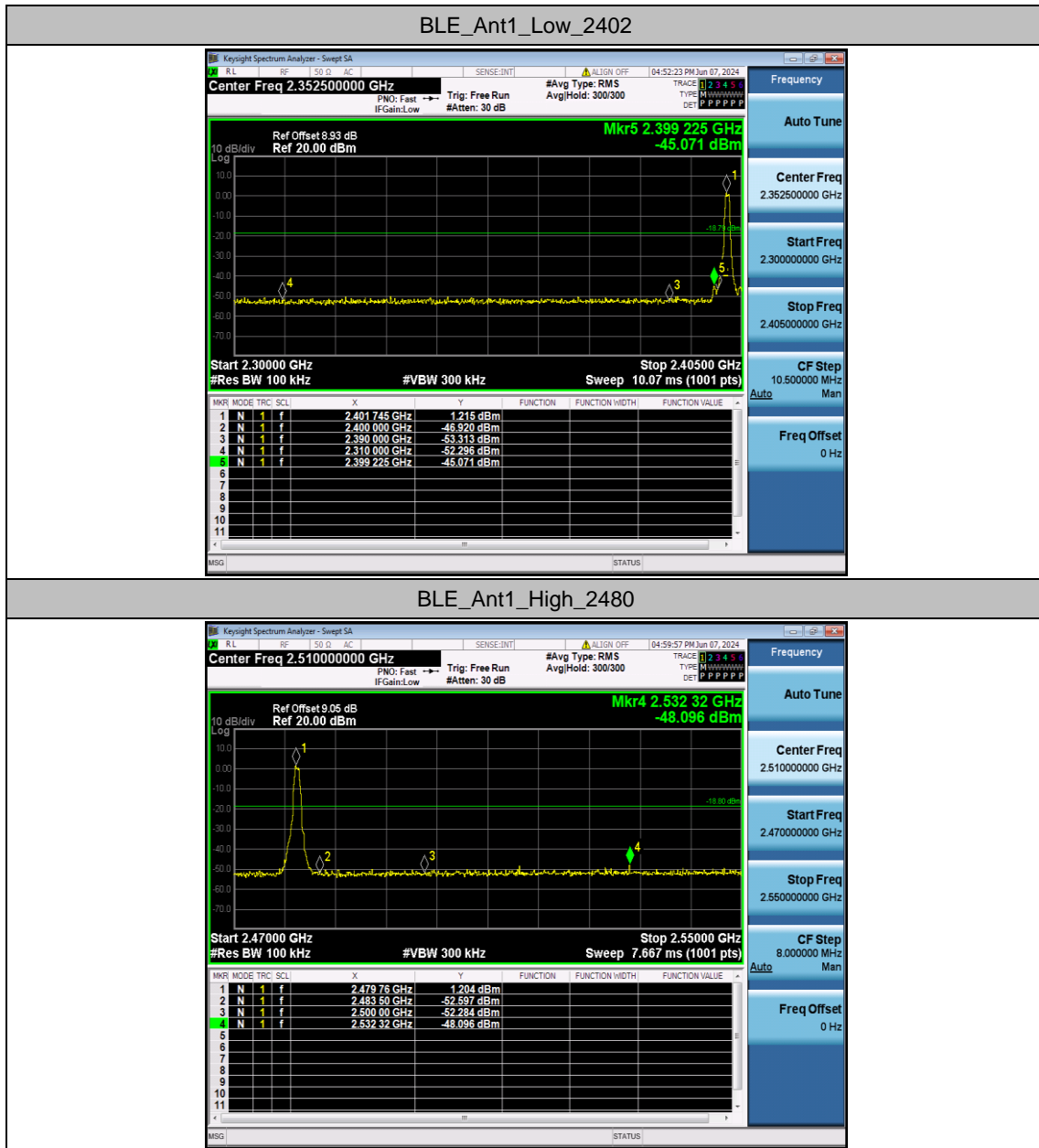


## Appendix B.5: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	1.22	-45.07	≤-18.79	PASS
		High	2480	1.20	-48.1	≤-18.8	PASS

## Test Graphs

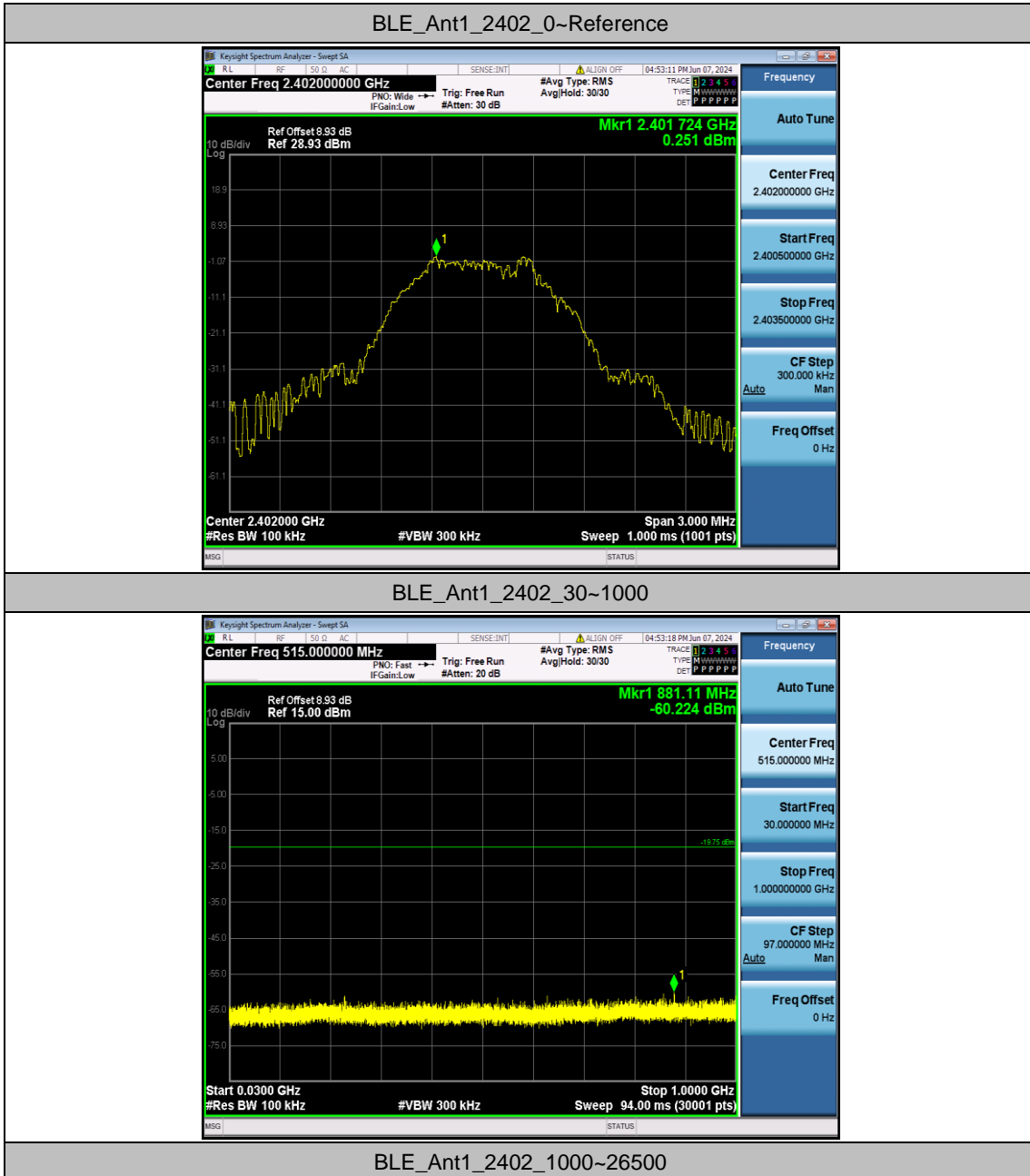


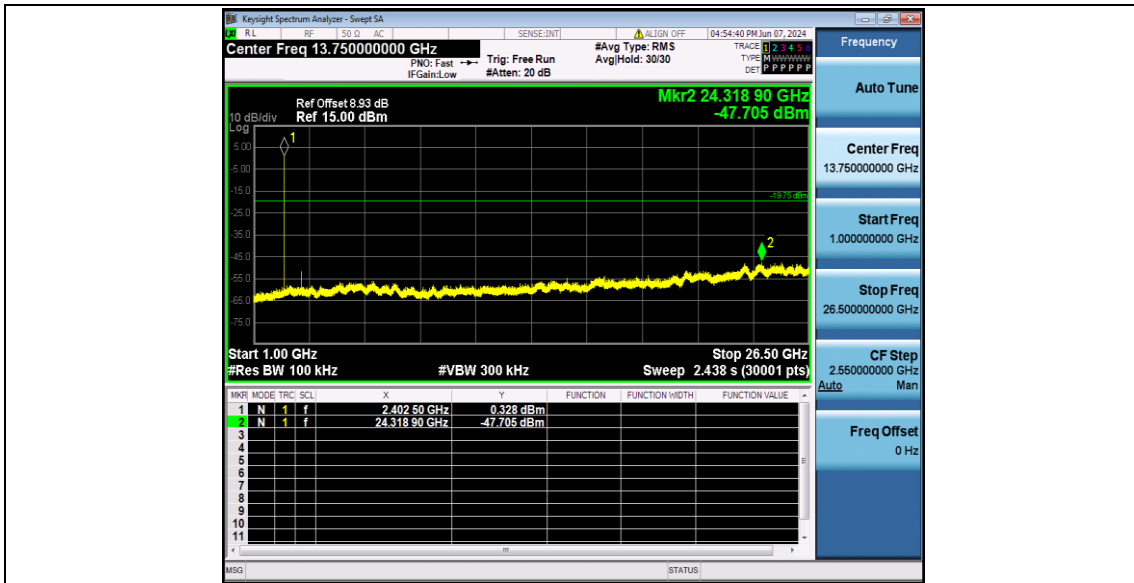
## Appendix B.6: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-60.22	≤-19.75	PASS
			1000~26500	0.25	-47.71	≤-19.75	PASS
		2440	Reference	1.82	1.82	---	PASS
			30~1000	1.82	-61.01	≤-18.18	PASS
			1000~26500	1.82	-47.62	≤-18.18	PASS
		2480	Reference	-0.04	-0.04	---	PASS
			30~1000	-0.04	-60.33	≤-20.04	PASS
			1000~26500	-0.04	-47.7	≤-20.04	PASS

## Test Graphs

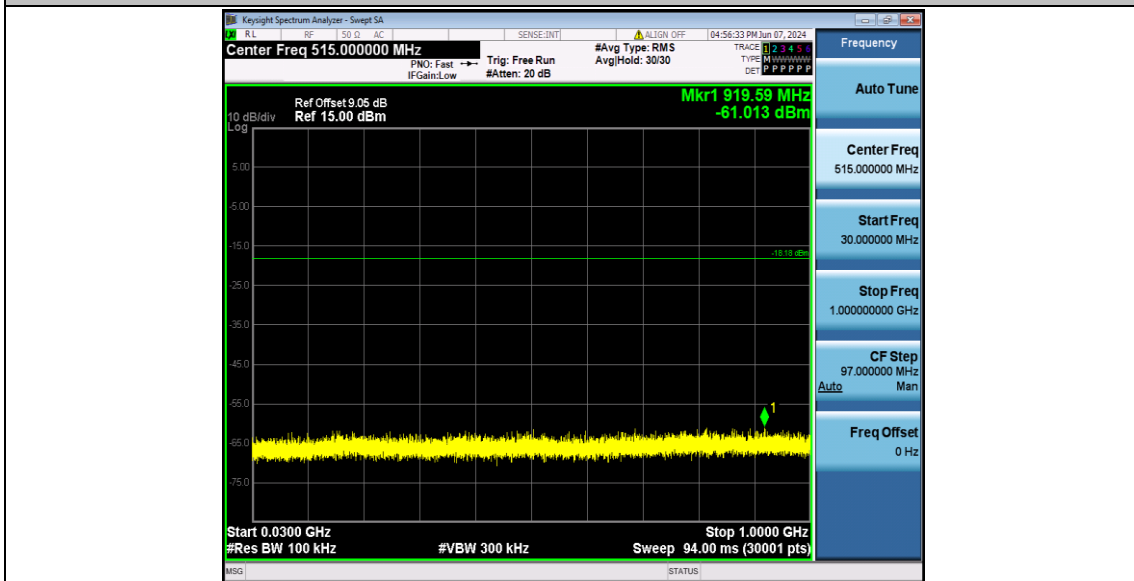




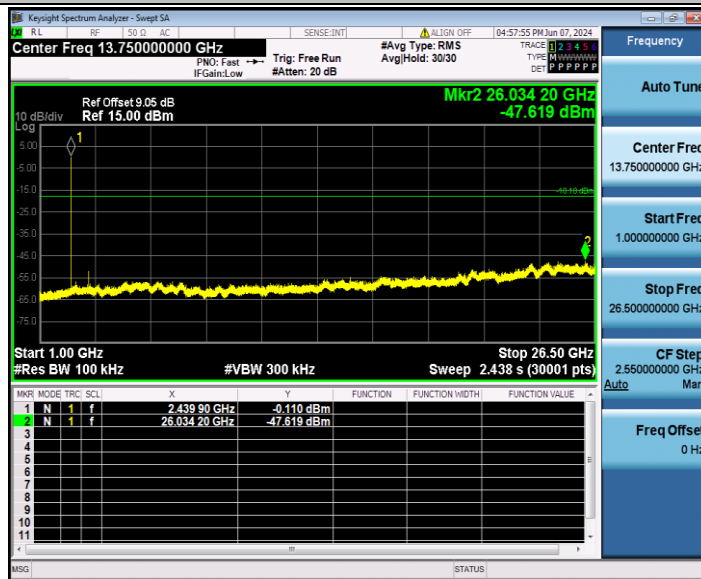
BLE\_Ant1\_2440\_0-Reference



BLE\_Ant1\_2440\_30-1000



BLE\_Ant1\_2440\_1000~26500

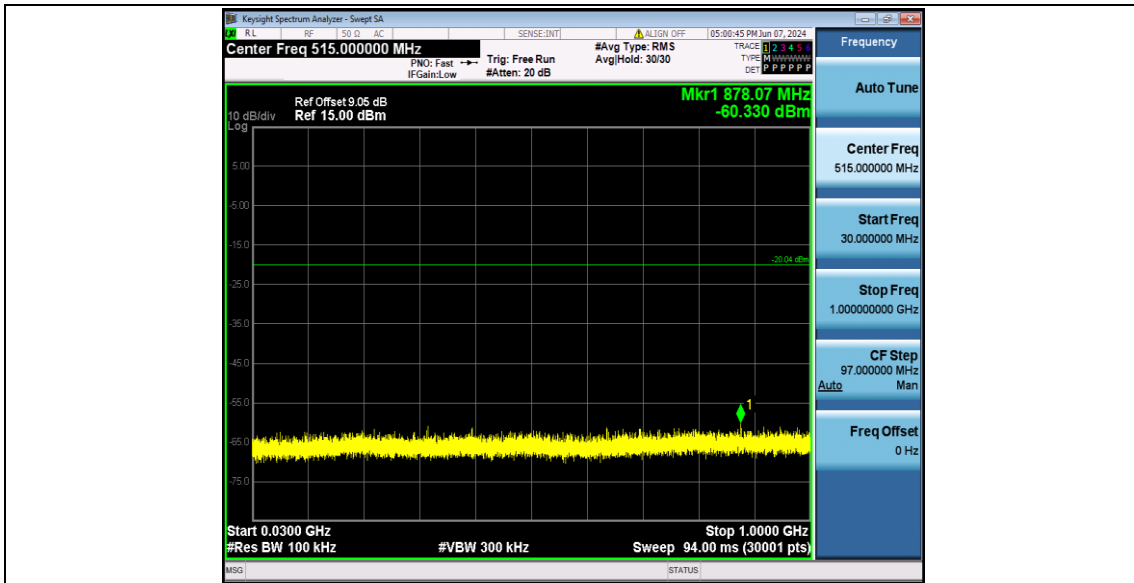


BLE\_Ant1\_2480\_0~Reference

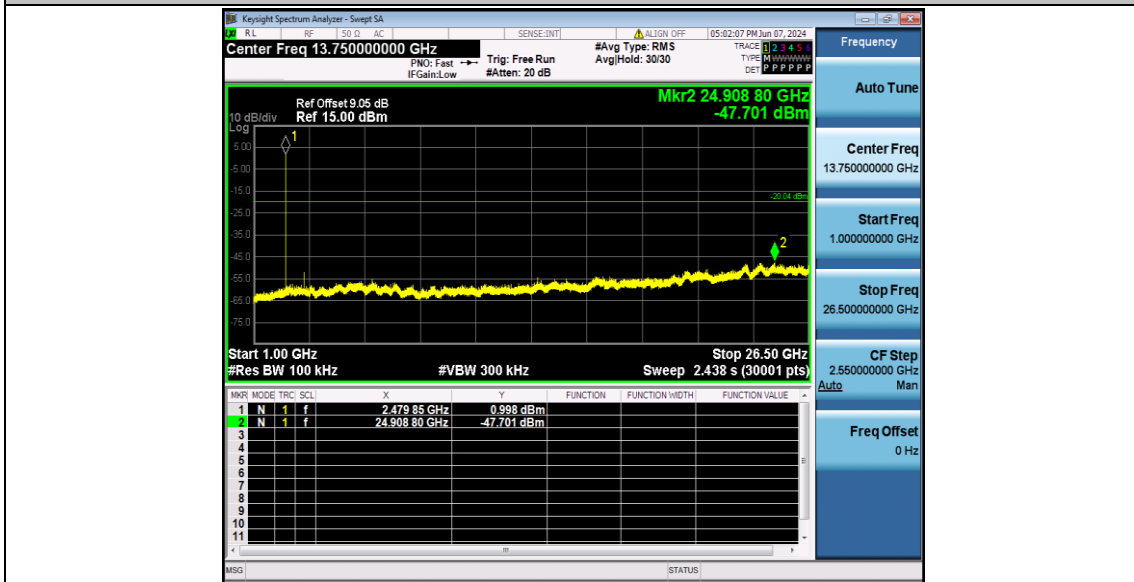


BLE\_Ant1\_2480\_30~1000





BLE\_Ant1\_2480\_1000~26500



## Appendix B.7: Emissions in Restricted Bands

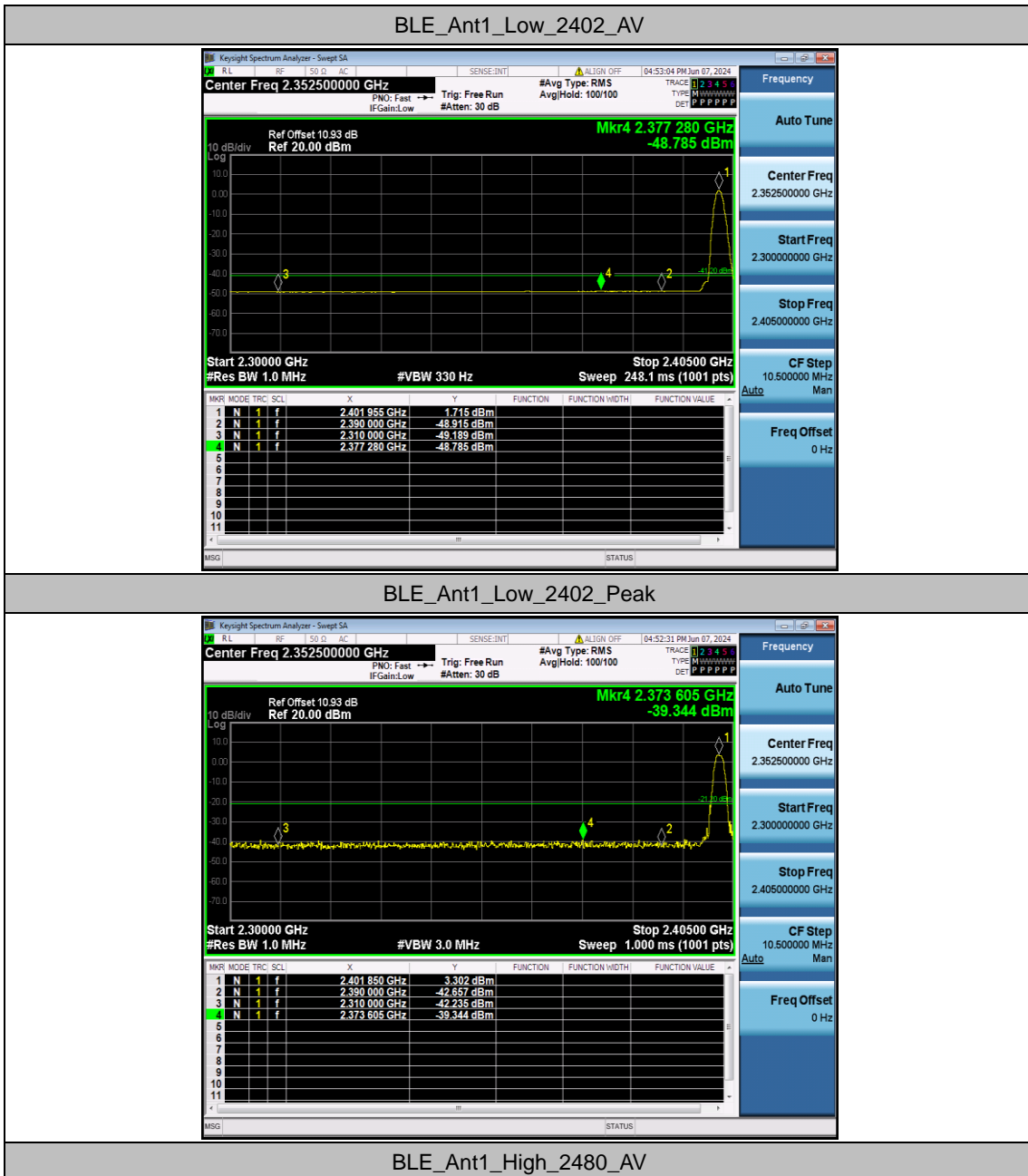
### Test Result

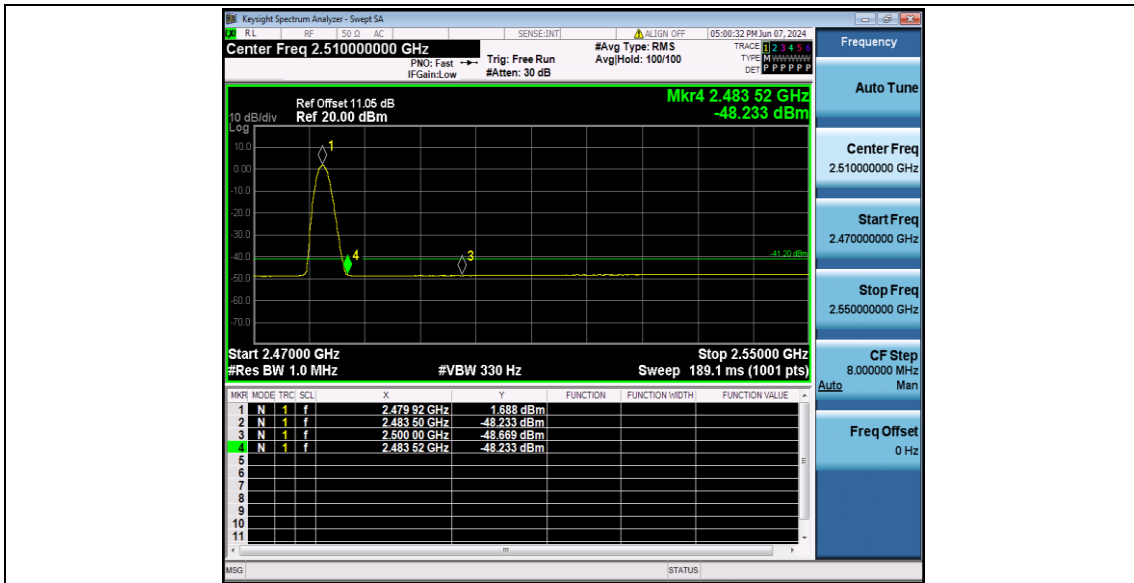
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.19	≤-41.20	46.01	≤54	PASS
				AV	2377.280	-48.79	≤-41.20	46.41	≤54	PASS
				AV	2390.000	-48.92	≤-41.20	46.28	≤54	PASS
				Peak	2310.000	-42.24	≤-21.20	52.96	≤74	PASS
				Peak	2373.605	-39.34	≤-21.20	55.86	≤74	PASS
				Peak	2390.000	-42.66	≤-21.20	52.54	≤74	PASS
		High	2480	AV	2483.500	-48.23	≤-41.20	46.97	≤54	PASS
				AV	2483.520	-48.23	≤-41.20	46.97	≤54	PASS
				AV	2500.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2483.500	-41.88	≤-21.20	53.32	≤74	PASS
				Peak	2491.520	-39.4	≤-21.20	55.80	≤74	PASS
				Peak	2500.000	-40.16	≤-21.20	55.04	≤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\_Ant1\_High\_2480\_Peak

