

Case No. : <u>GTS20251110019-1-01</u>
Ambient Condition: <u>22</u> °C, <u>46</u> %RH
According Standard: ■Part15C
Test Date: <u>2025.11.18-2025.11.27</u> Test Engineer: <u>Evan ouyang</u>

AppendixA.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.644	2401.744	2402.388	0.5	PASS
		2440	0.648	2439.744	2440.392	0.5	PASS
		2480	0.652	2479.752	2480.404	0.5	PASS

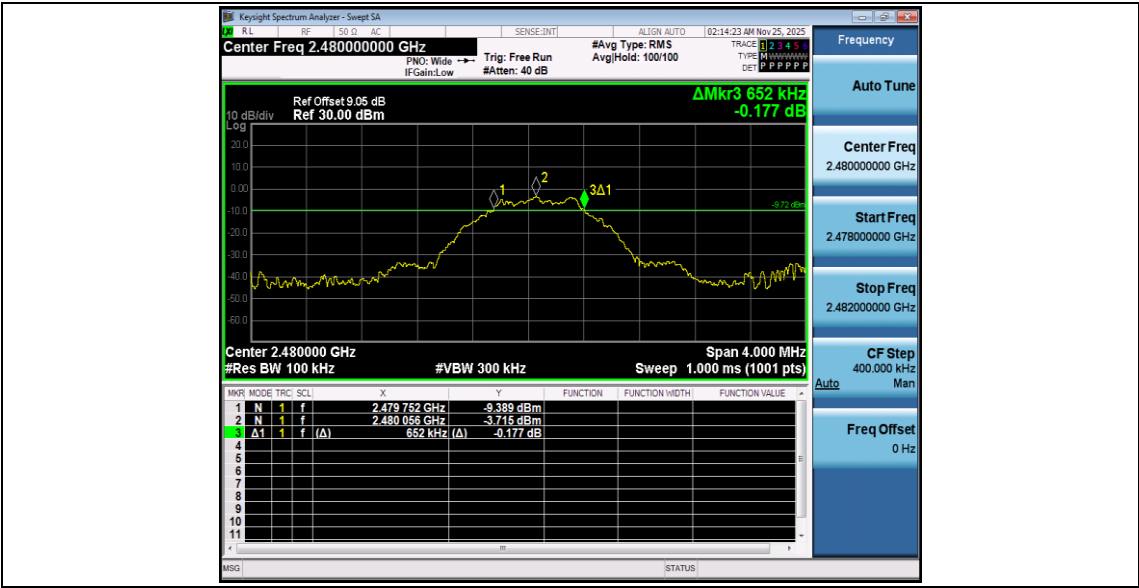
Test Graphs



BLE_Ant1_2440

Frequency
Auto Tune
Center Freq 2.440000000 GHz
Start Freq 2.438000000 GHz
Stop Freq 2.442000000 GHz
CF Step 400.000 kHz
Auto Man
Freq Offset 0 Hz

BLE_Ant1_2480



AppendixA.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0641	2401.5276	2402.5917	---	---
		2440	1.0509	2439.5341	2440.5850	---	---
		2480	1.0664	2479.5293	2480.5957	---	---

AppendixA.3: Maximum conducted output power

Test Result Peak

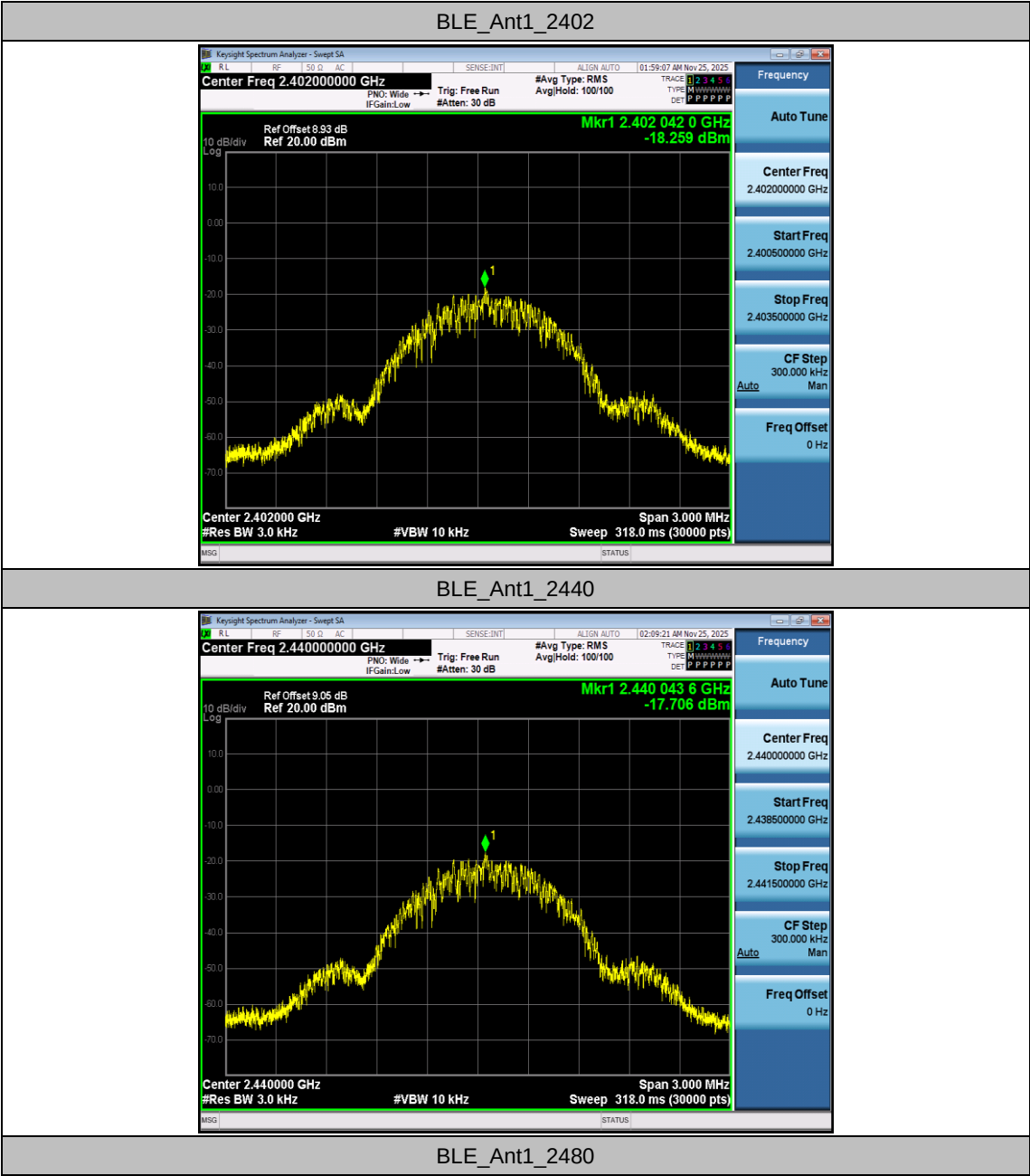
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-2.29	≤30	PASS
		2440	-1.78	≤30	PASS
		2480	-2.25	≤30	PASS

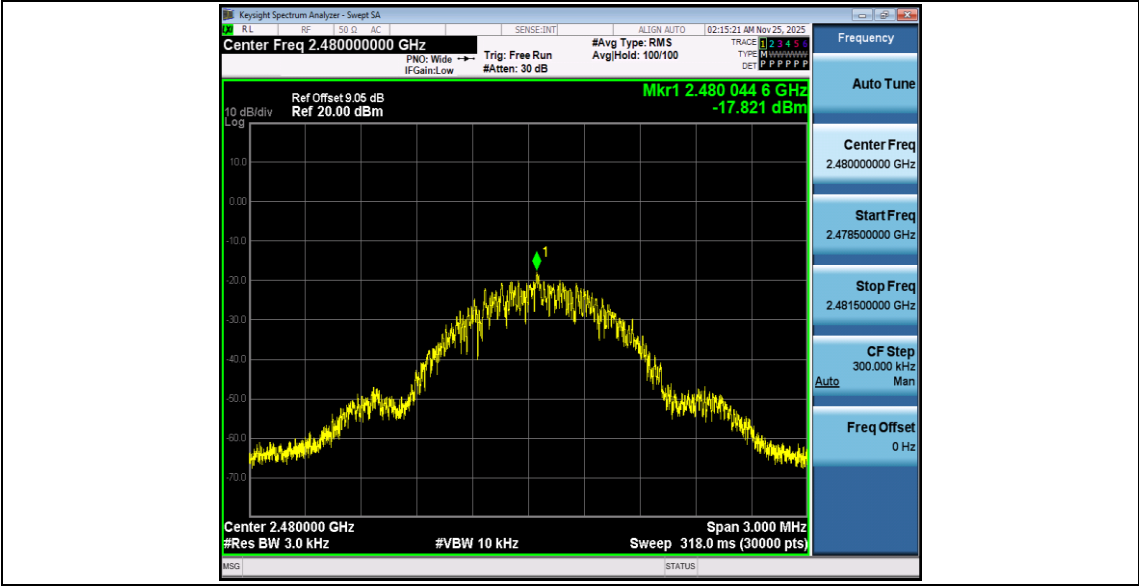
AppendixA.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-18.26	≤8.00	PASS
		2440	-17.71	≤8.00	PASS
		2480	-17.82	≤8.00	PASS

Test Graphs



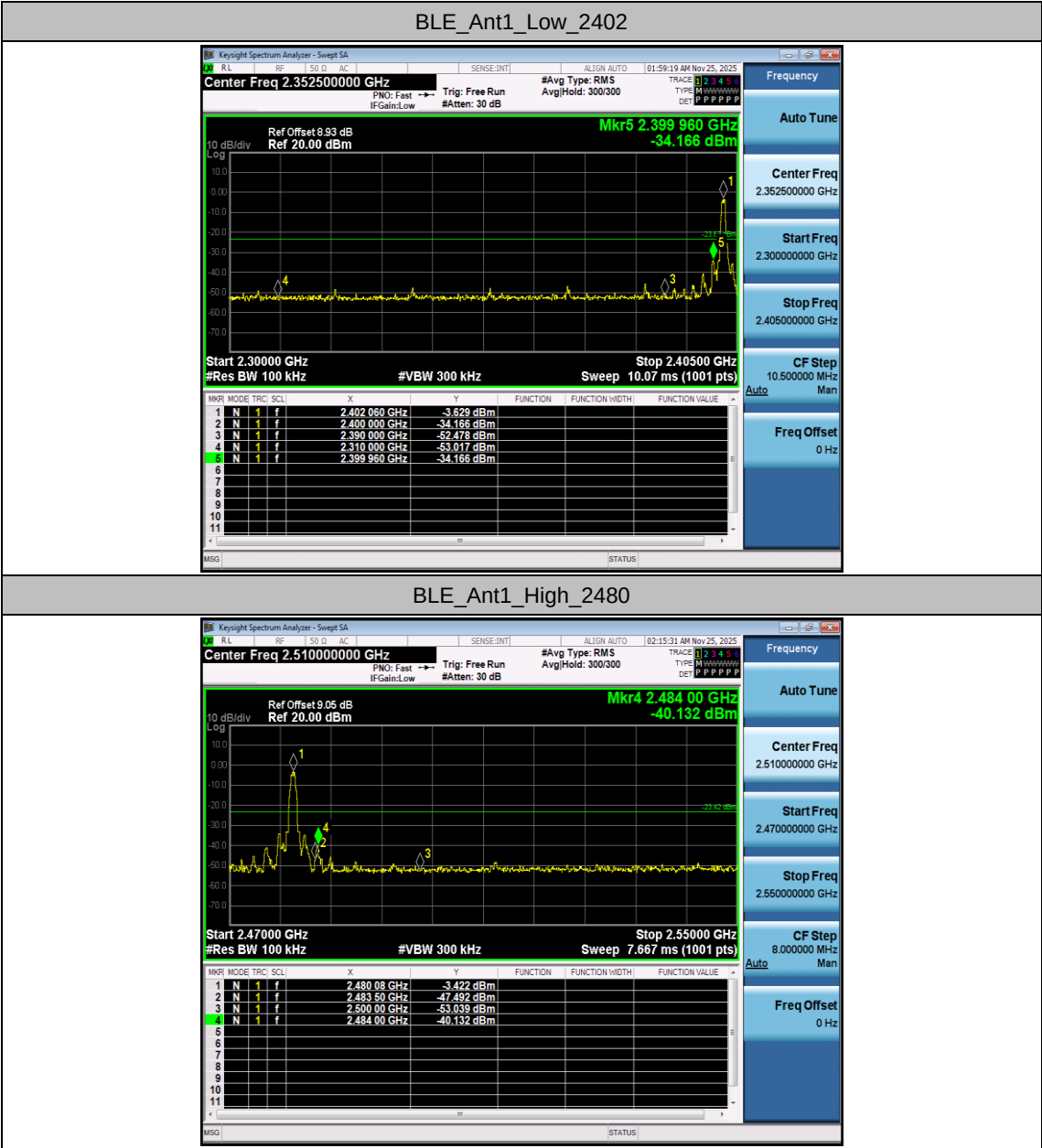


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-3.63	-34.17	≤-23.63	PASS
		High	2480	-3.42	-40.13	≤-23.42	PASS

Test Graphs

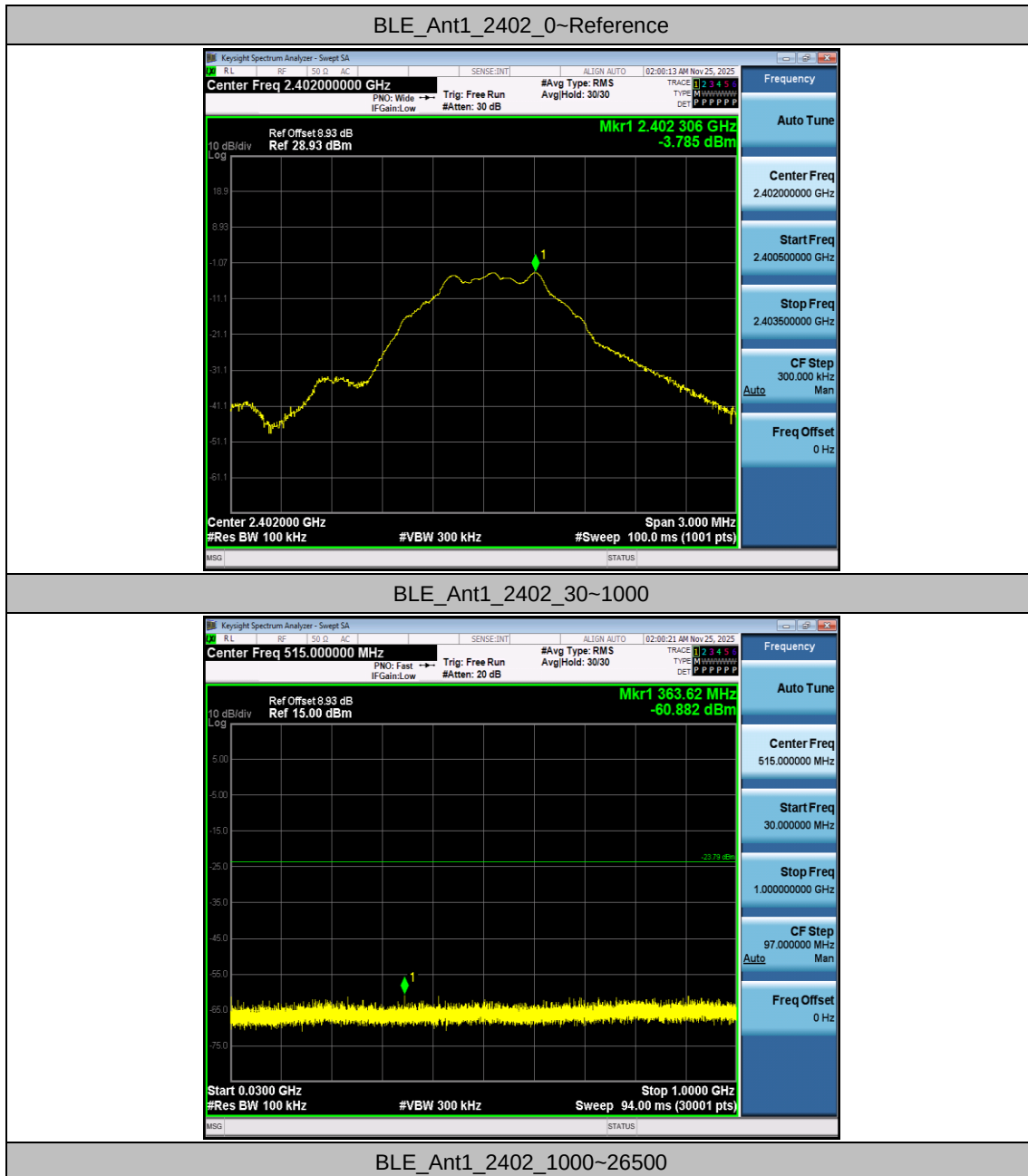


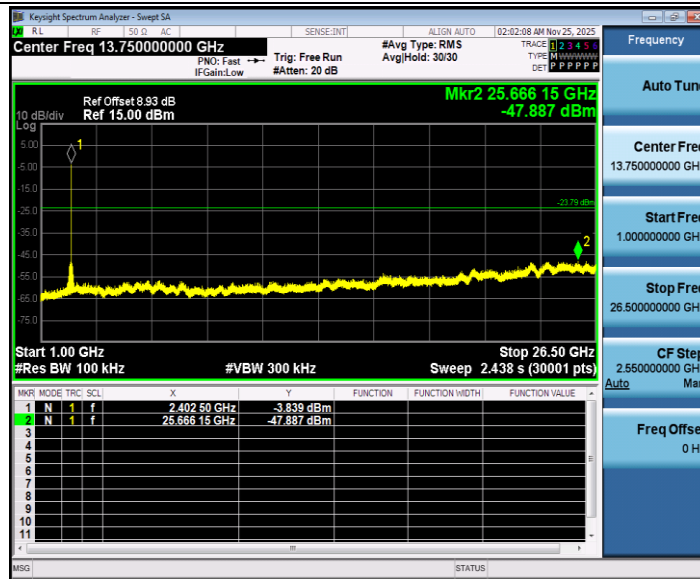
AppendixA.6:Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-3.79	-3.79	---	PASS
			30~1000	-3.79	-60.88	≤ -23.79	PASS
			1000~26500	-3.79	-47.89	≤ -23.79	PASS
		2440	Reference	-3.28	-3.28	---	PASS
			30~1000	-3.28	-60.51	≤ -23.28	PASS
			1000~26500	-3.28	-47.83	≤ -23.28	PASS
		2480	Reference	-3.67	-3.67	---	PASS
			30~1000	-3.67	-60.97	≤ -23.67	PASS
			1000~26500	-3.67	-47.44	≤ -23.67	PASS

Test Graphs

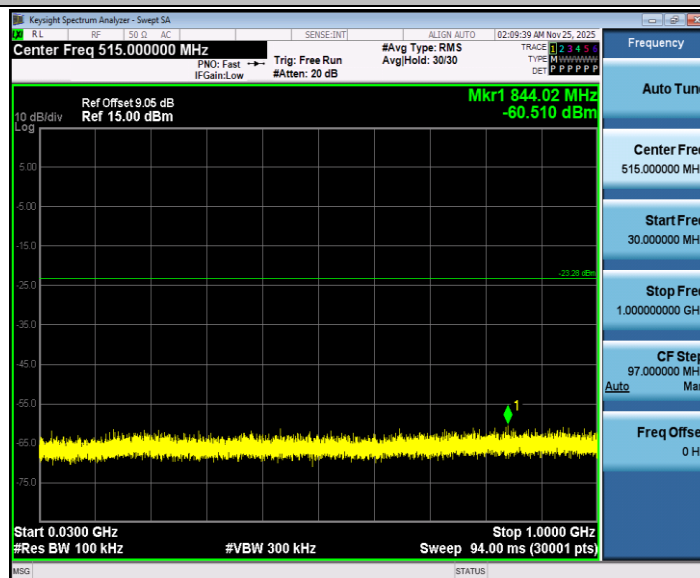




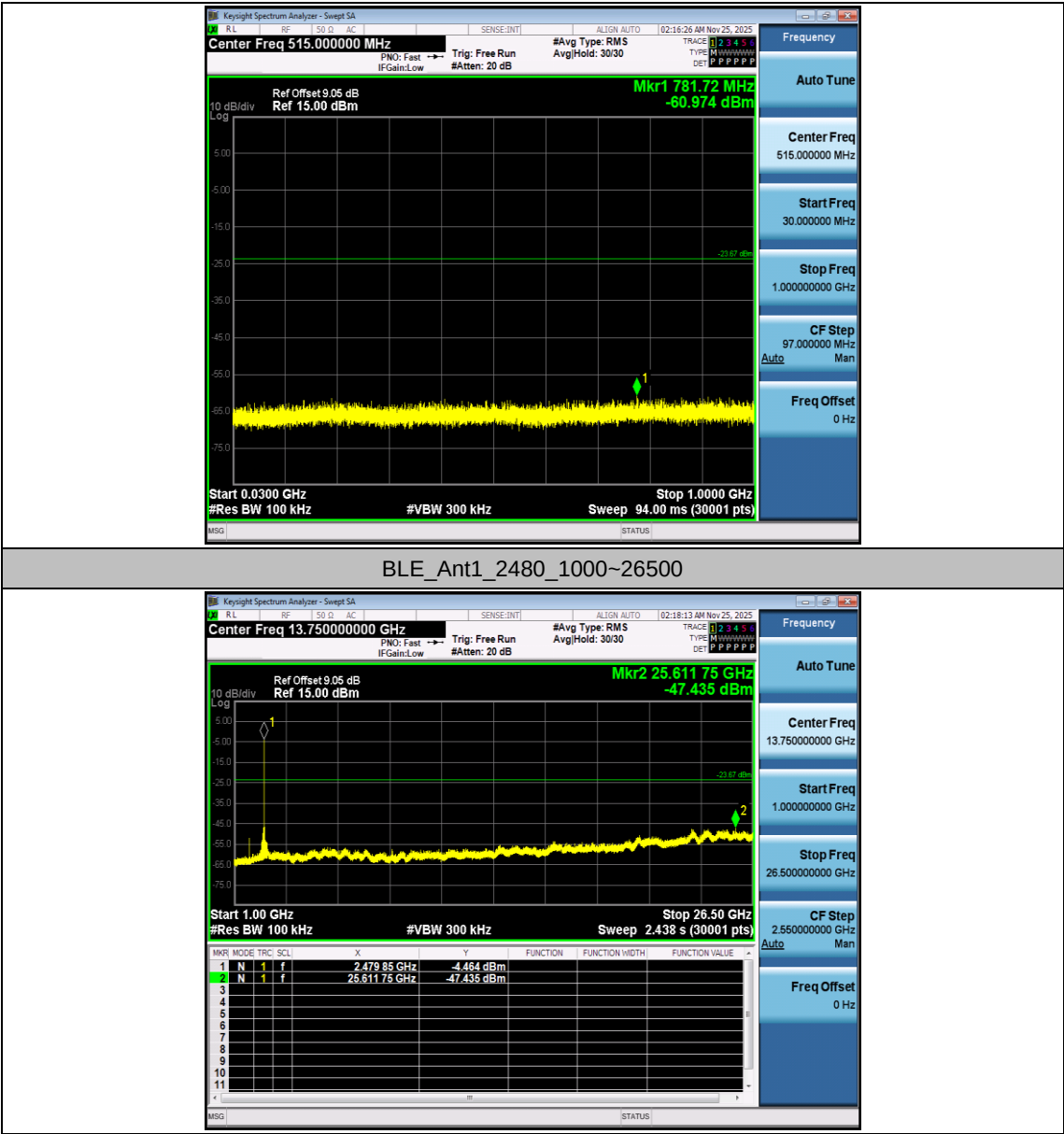
BLE_Ant1_2440_0~Reference



BLE_Ant1_2440_30~1000





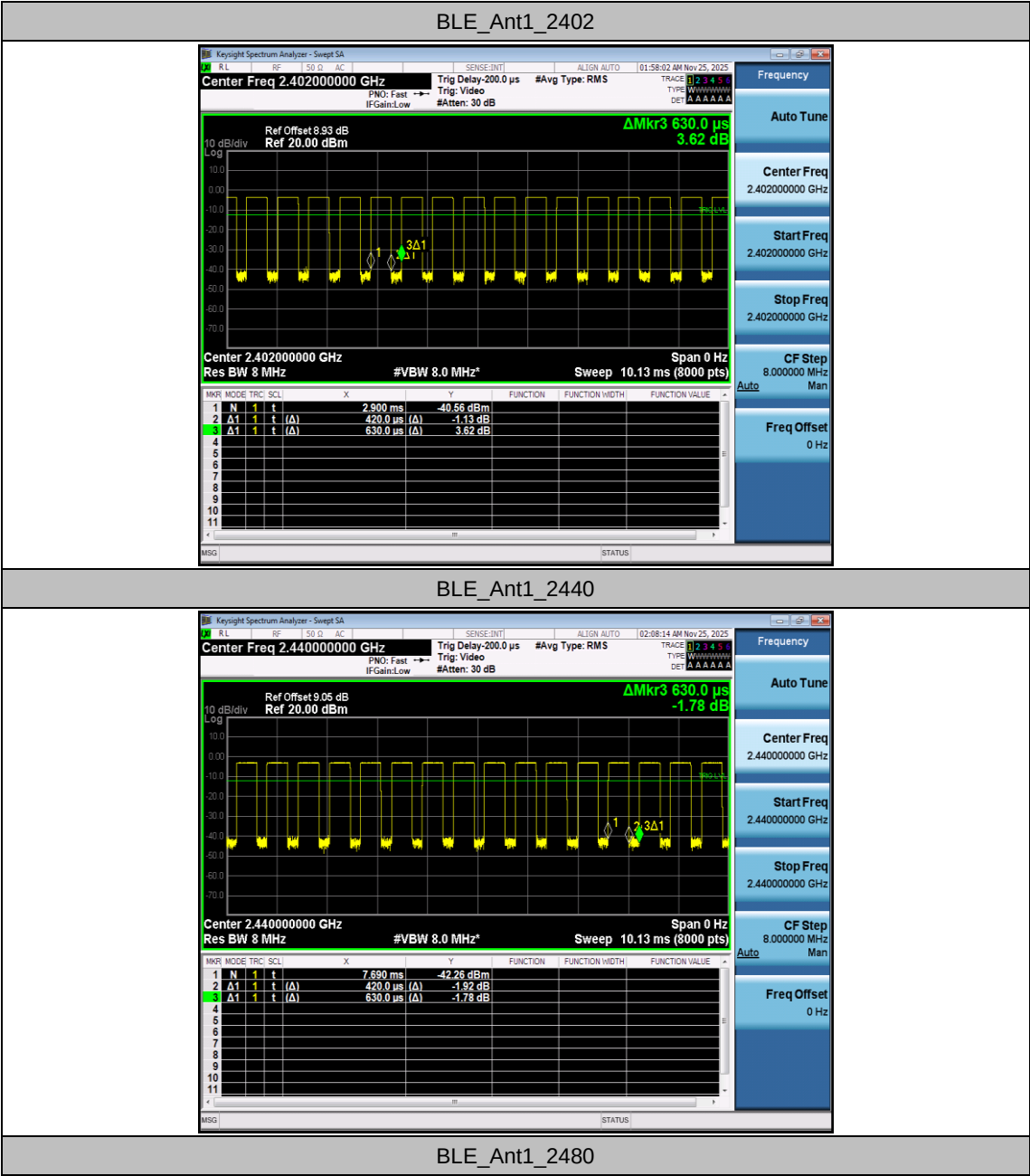


AppendixA.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE	Ant1	2402	0.42	0.63	0.6667	66.67	1.76	2.38
		2440	0.42	0.63	0.6667	66.67	1.76	2.38
		2480	0.42	0.63	0.6667	66.67	1.76	2.38

Test Graphs



Appendix A.8: Emissions in Restricted Bands

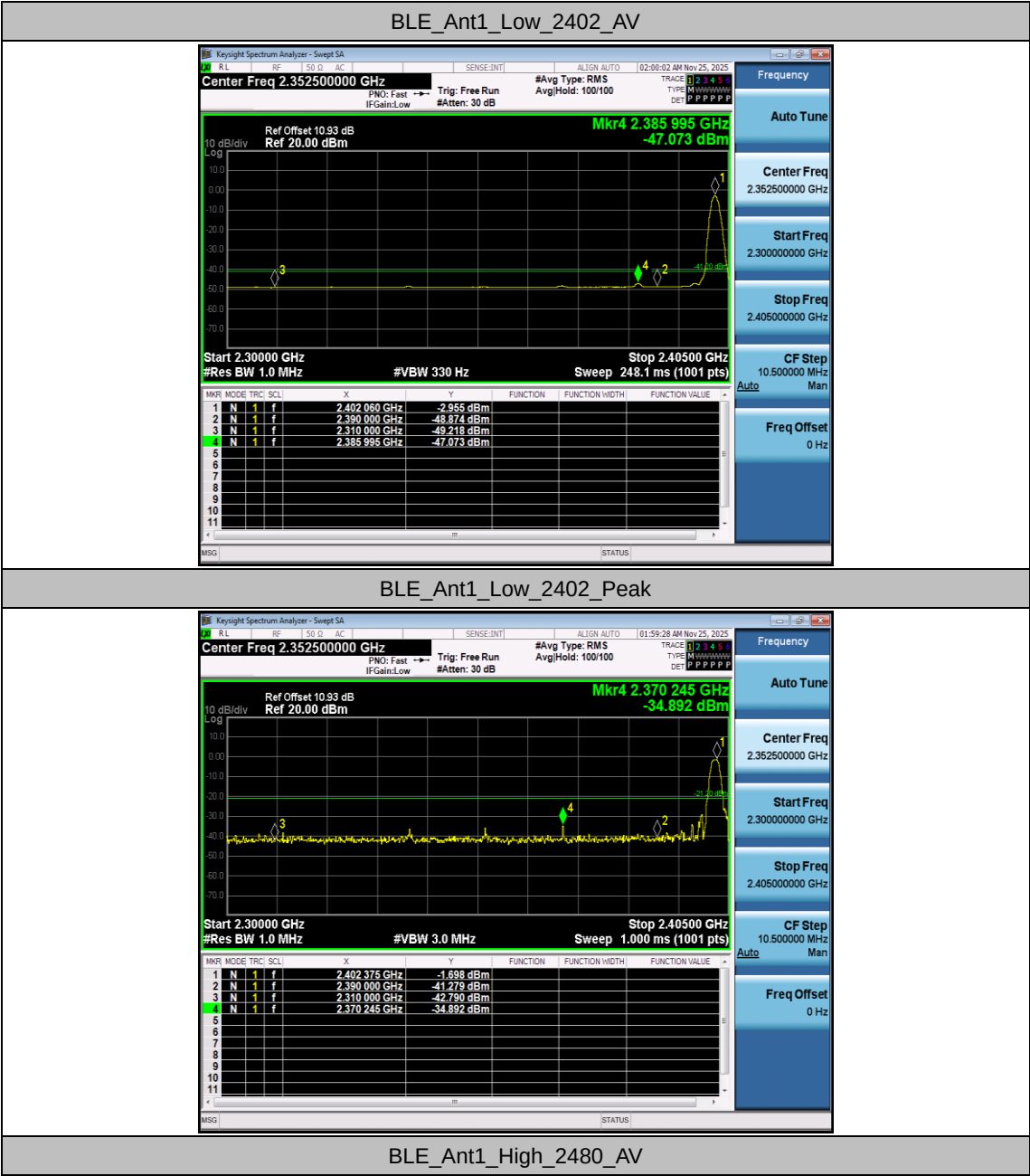
Test Result

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	-49.22	≤-41.20	45.98	≤54	PASS
				AV	2385.995	-47.07	≤-41.20	48.13	≤54	PASS
				AV	2390.000	-48.87	≤-41.20	46.33	≤54	PASS
				Peak	2310.000	-42.79	≤-21.20	52.41	≤74	PASS
				Peak	2370.245	-34.89	≤-21.20	60.31	≤74	PASS
				Peak	2390.000	-41.28	≤-21.20	53.92	≤74	PASS
		High	2480	AV	2483.500	-46.8	≤-41.20	48.40	≤54	PASS
				AV	2483.840	-46.57	≤-41.20	48.63	≤54	PASS
				AV	2500.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2483.500	-33.25	≤-21.20	61.95	≤74	PASS
				Peak	2484.160	-30.32	≤-21.20	64.88	≤74	PASS
				Peak	2500.000	-41.45	≤-21.20	53.75	≤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_Low_2402_Peak

Frequency

Auto Tune

Center Freq
2.352500000 GHzStart Freq
2.300000000 GHzStop Freq
2.405000000 GHzCF Step
10.500000 MHz
Auto ManFreq Offset
0 Hz

BLE_Ant1_High_2480_AV

