

Case No. : <u>GTS20260410023-1-01</u>	
Ambient Condition: <u>26</u> °C, <u>53</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2026.4.20</u>	Test Engineer: <u>Evan ouyang</u>

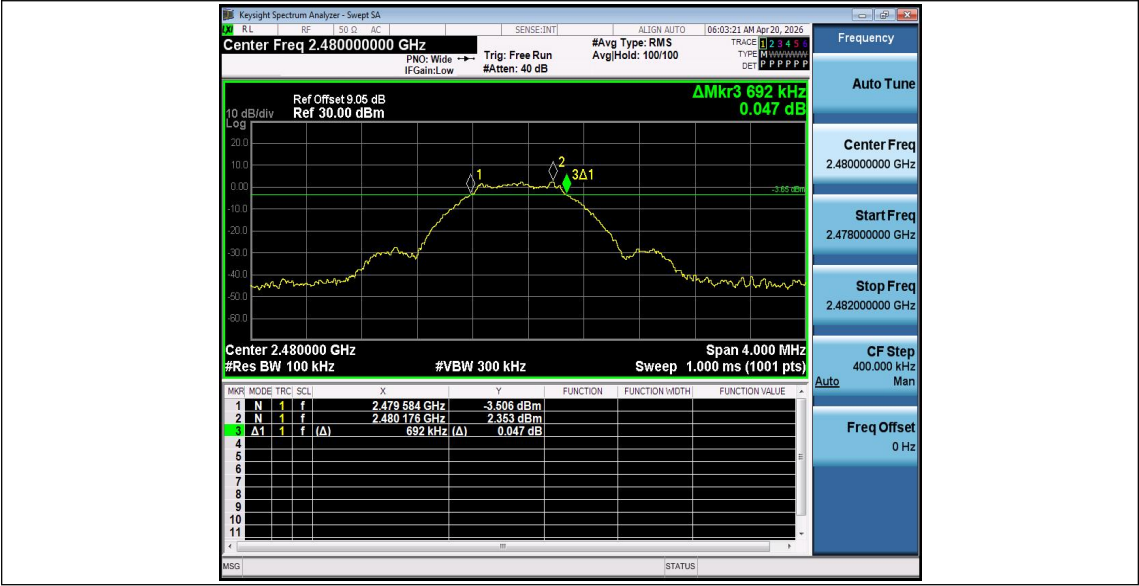
Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.668	2401.596	2402.264	0.5	PASS
		2440	0.728	2439.568	2440.296	0.5	PASS
		2480	0.692	2479.584	2480.276	0.5	PASS

Test Graphs



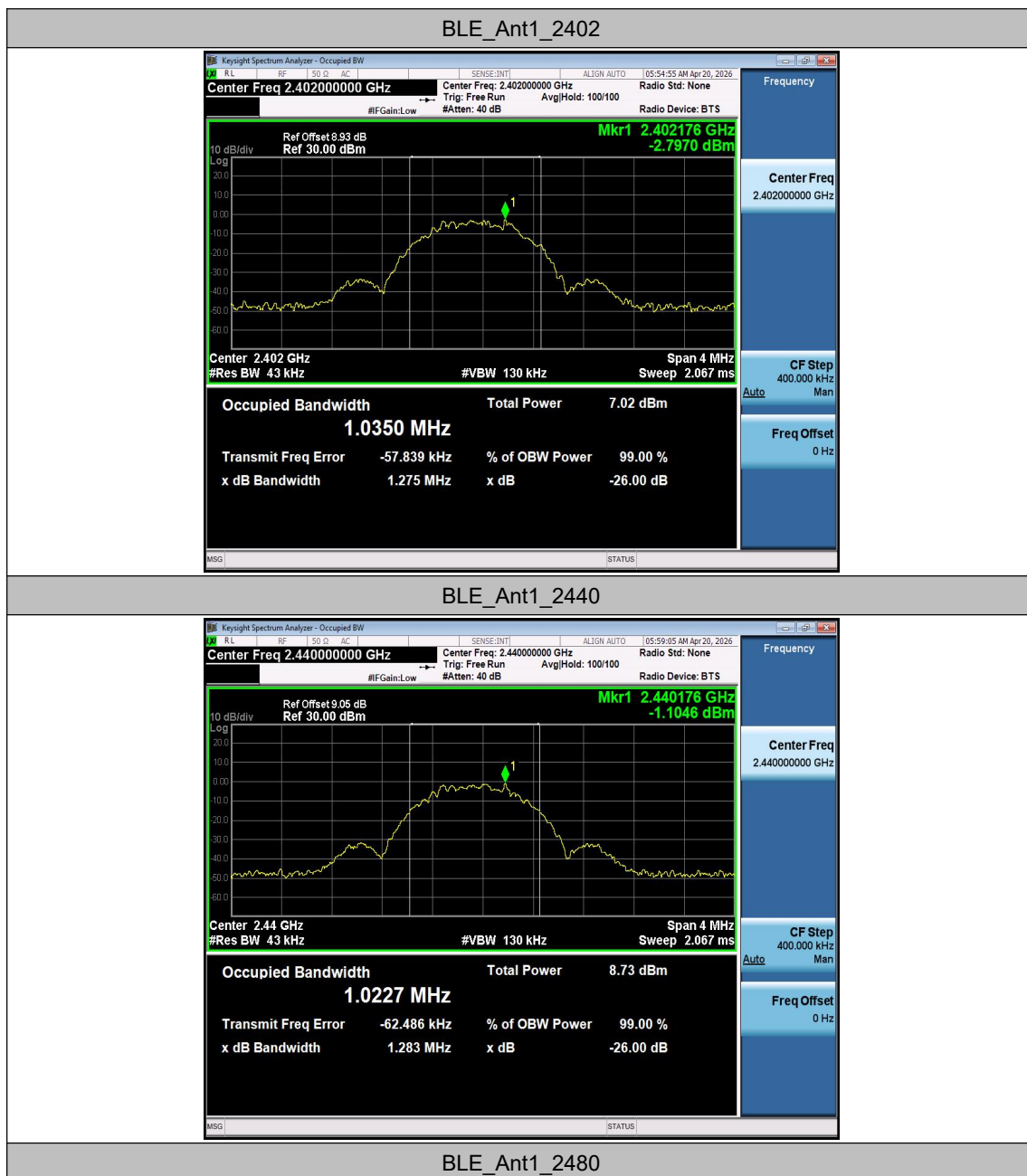


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0350	2401.4247	2402.4597	---	---
		2440	1.0227	2439.4262	2440.4489	---	---
		2480	1.0338	2479.4228	2480.4566	---	---

Test Graphs





Appendix A.3: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	1.18	≤30	PASS
		2440	2.78	≤30	PASS
		2480	3.47	≤30	PASS

Appendix A.4: Maximum power spectral density

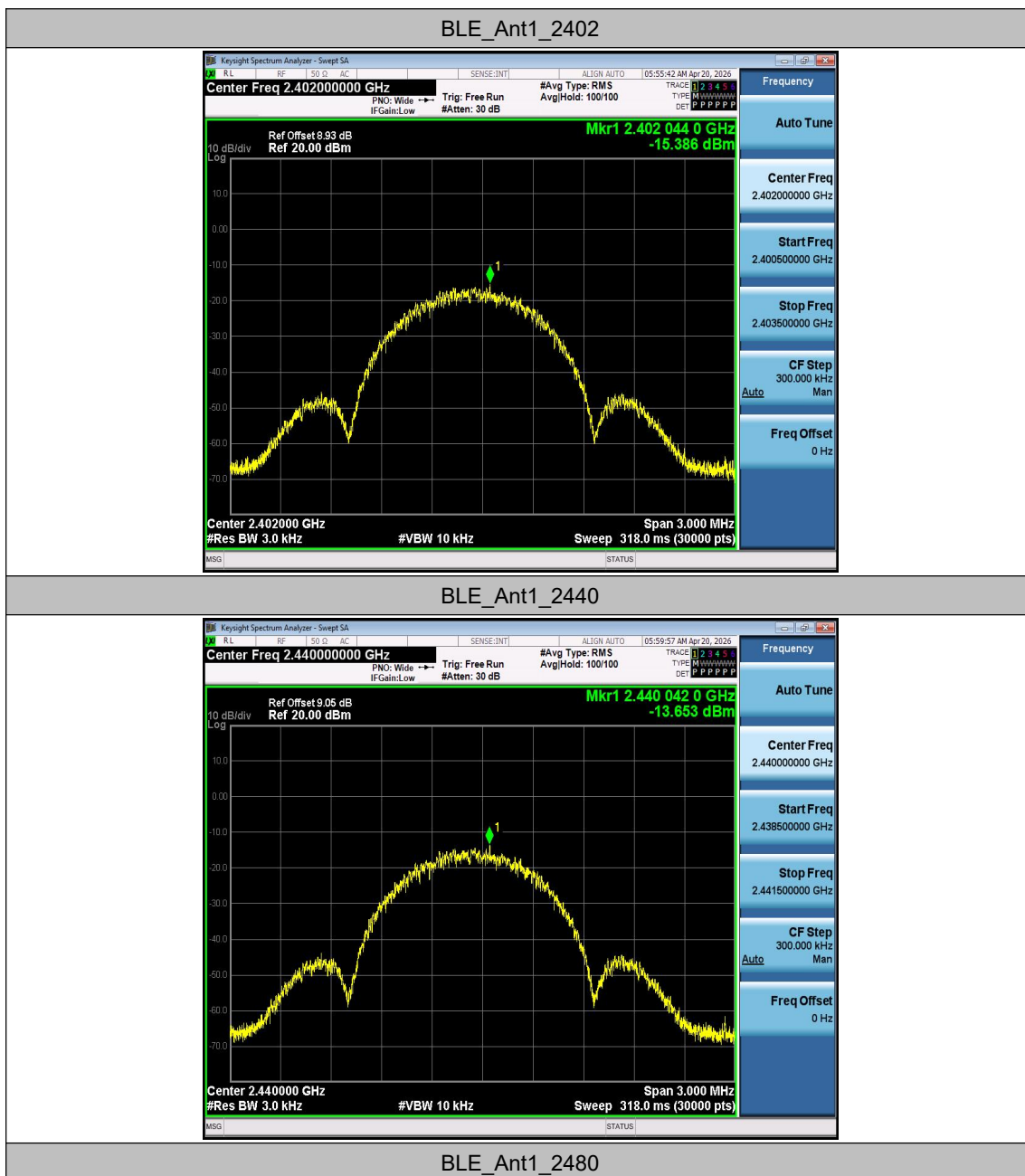
Test Result

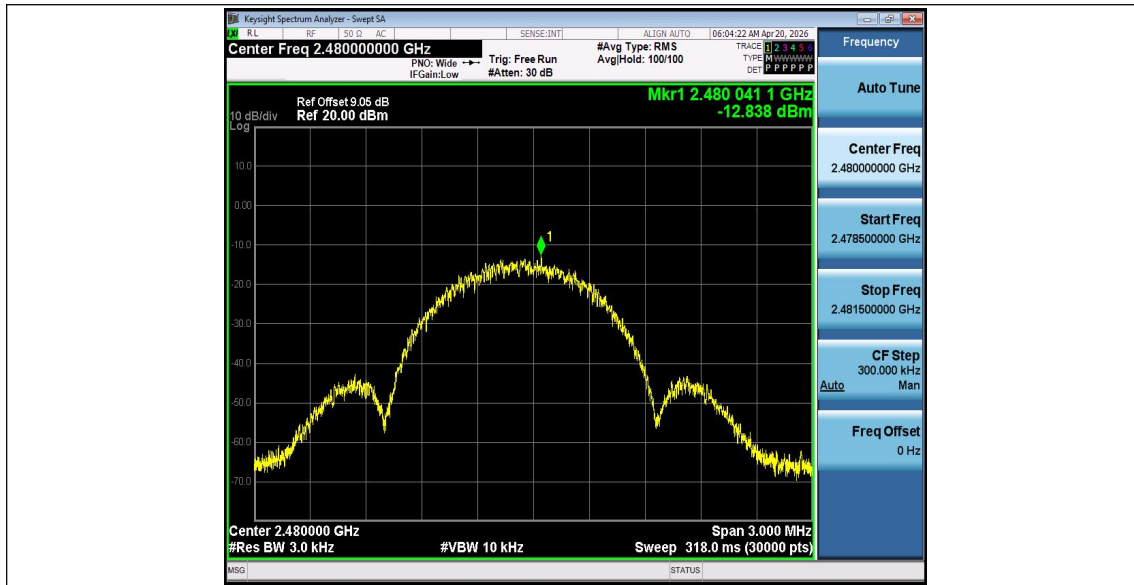
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-15.39	≤8.00	PASS
		2440	-13.65	≤8.00	PASS
		2480	-12.84	≤8.00	PASS

Note:

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

Test Graphs





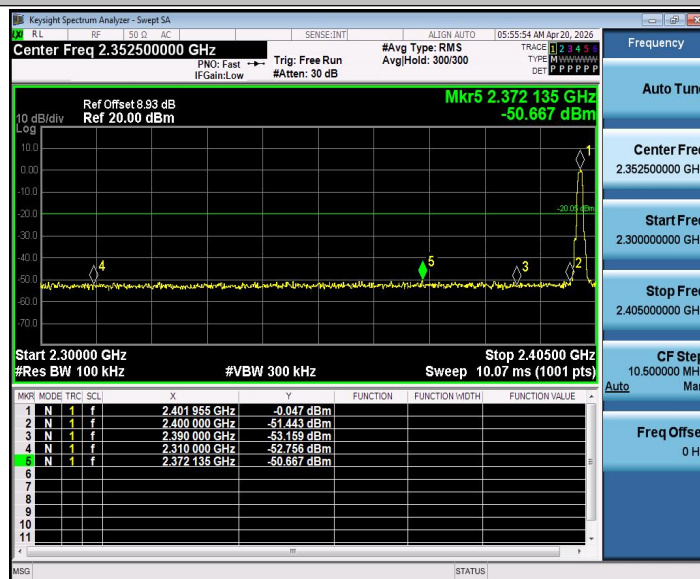
Appendix A.5: Band edge measurements

Test Result

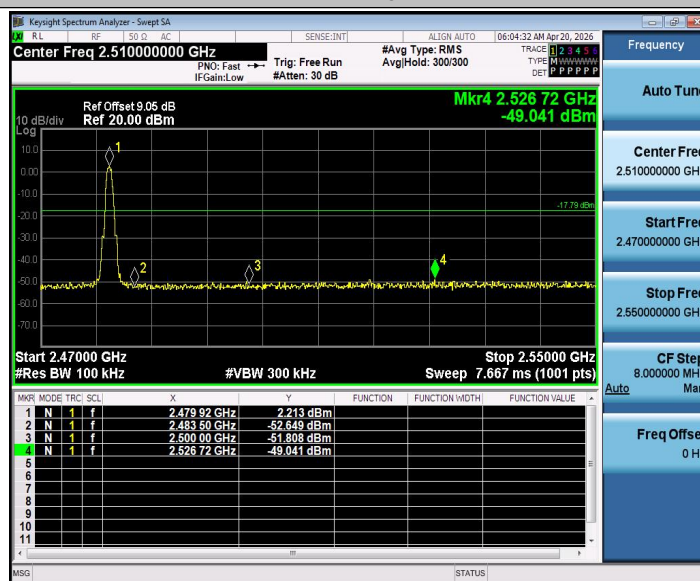
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-0.05	-50.67	≤-20.05	PASS
		High	2480	2.21	-49.04	≤-17.79	PASS

Test Graphs

BLE_Ant1_Low_2402



BLE_Ant1_High_2480

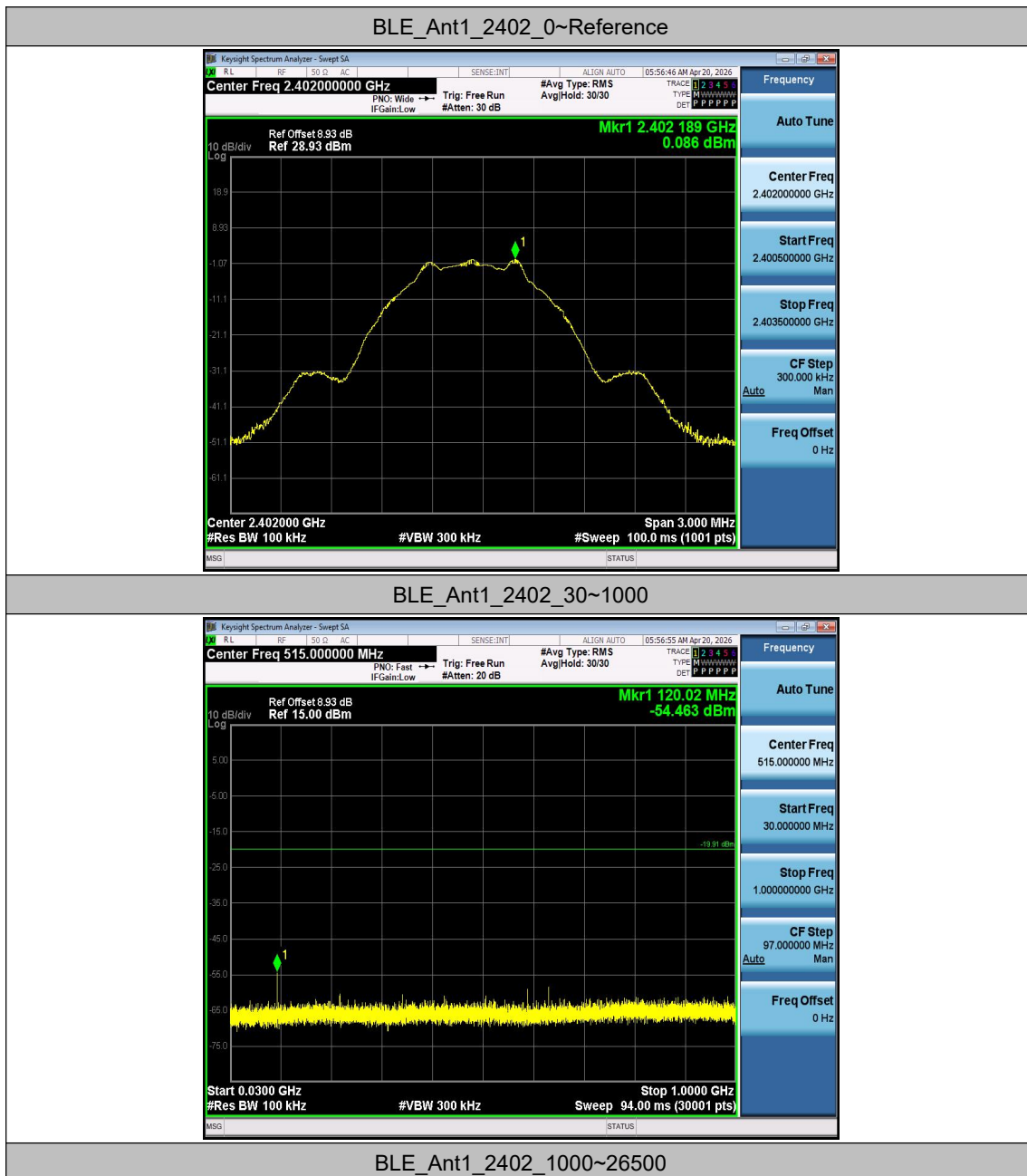


Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	0.09	0.09	---	PASS
			30~1000	0.09	-54.46	≤-19.91	PASS
			1000~26500	0.09	-47.06	≤-19.91	PASS
		2440	Reference	1.78	1.78	---	PASS
			30~1000	1.78	-55.3	≤-18.22	PASS
			1000~26500	1.78	-46	≤-18.22	PASS
		2480	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-55.57	≤-17.35	PASS
			1000~26500	2.65	-47.41	≤-17.35	PASS

Test Graphs

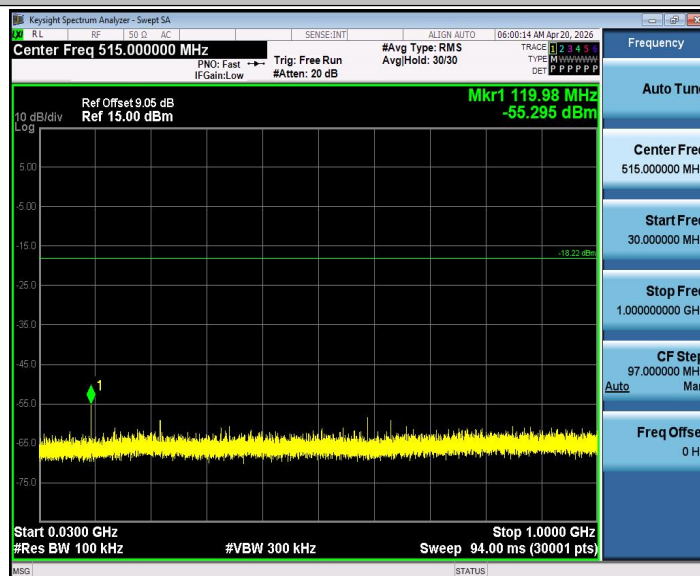




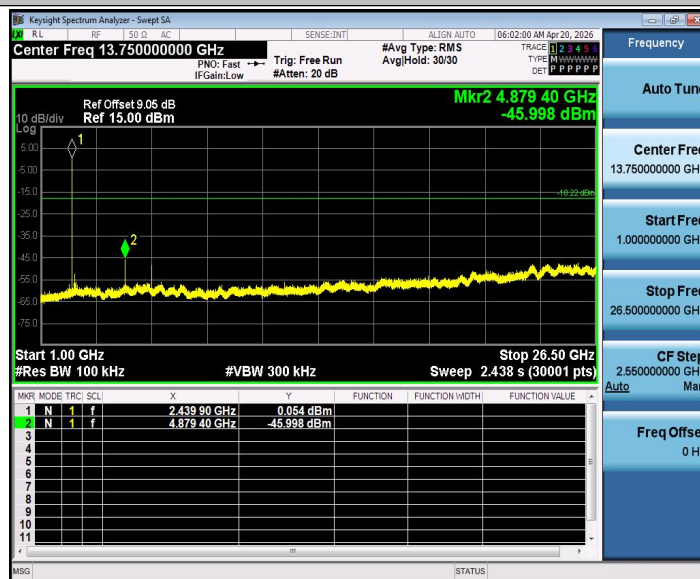
BLE_Ant1_2440_0~Reference



BLE_Ant1_2440_30~1000



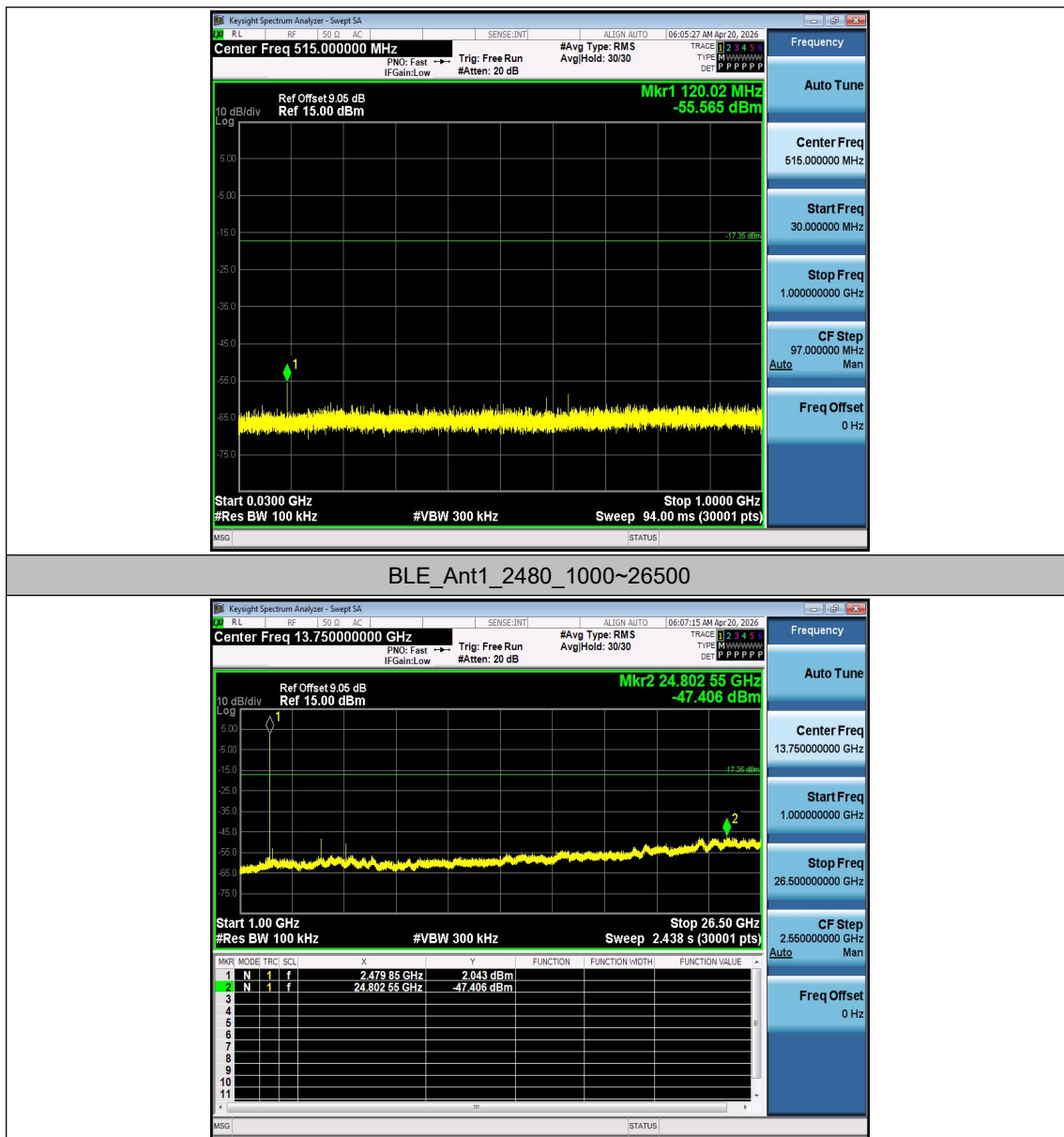
BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000

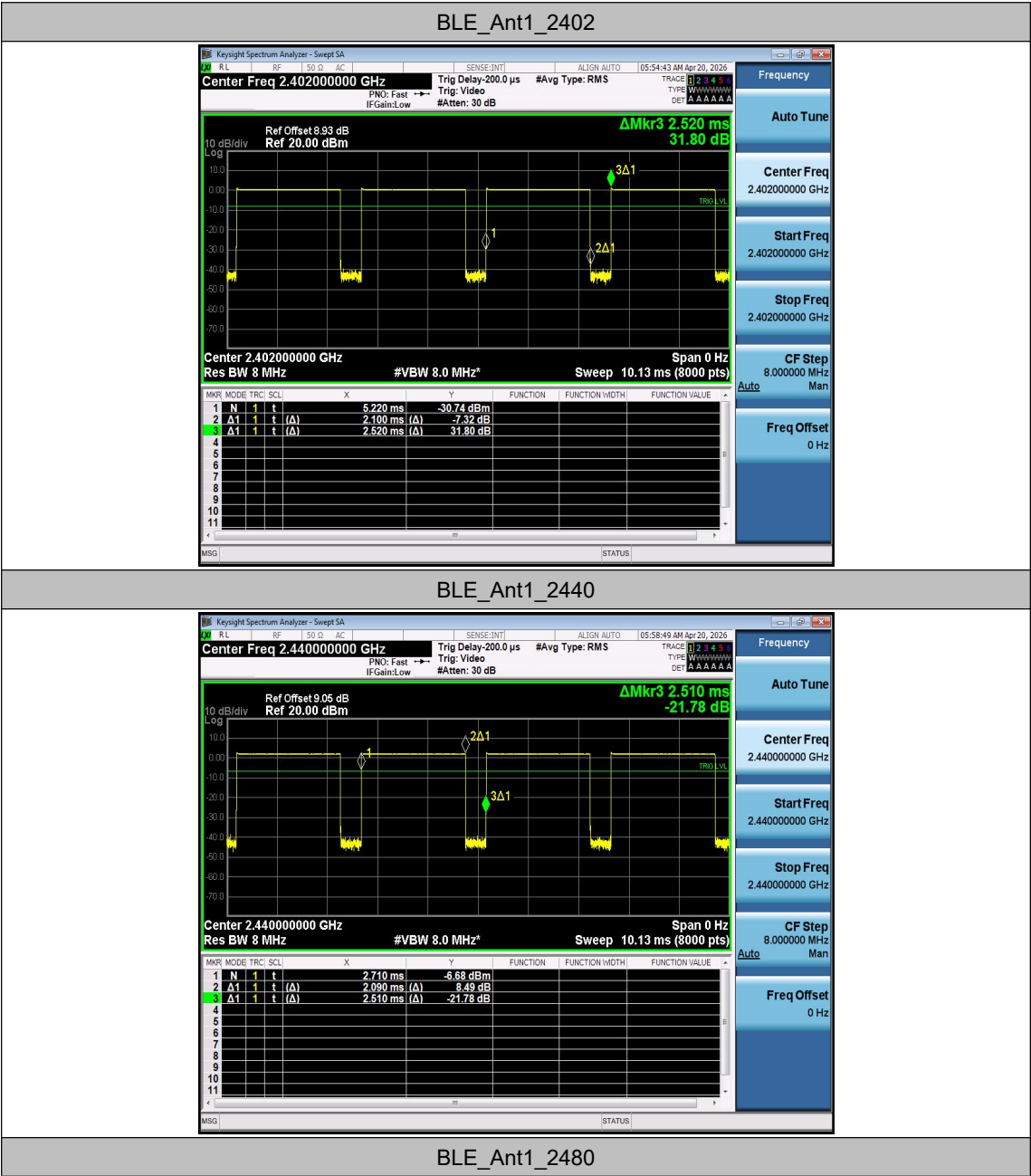


Appendix A.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE	Ant1	2402	2.10	2.52	0.8333	83.33	0.79	0.48
		2440	2.09	2.51	0.8327	83.27	0.80	0.48
		2480	2.09	2.51	0.8327	83.27	0.80	0.48

Test Graphs



BLE_Ant1_2440

Keysight Spectrum Analyzer - Swept SA

RF: 150.0 AC

SENSE:INT

ALIGN: AUTO

05:58:49 AM Apr 20, 2026

Center Freq 2.440000000 GHz

Trig Delay: 200.0 μ s

#Avg Type: RMS

TRAC: 1 2 3 4 5

PNO: Fast

IFGain: Low

Trig: Video

#Atten: 30 dB

TYPE: WWWW

DET: AAAAAA

Ref Offset 9.05 dB

Ref 20.00 dBm

Δ Mkr3 2.510 ms

-21.78 dB

Center 2.440000000 GHz

Res BW 8 MHz

#VBW 8.0 MHz*

Sweep 10.13 ms (8000 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION (WIDTH)	FUNCTION VALUE
1	N	1	t	2.710 ms	-6.68 dBm			
2	Δ 1	1	t (A)	2.090 ms (A)	8.49 dB			
3	Δ 1	1	t (A)	2.510 ms (A)	-21.78 dB			

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.440000000 GHz

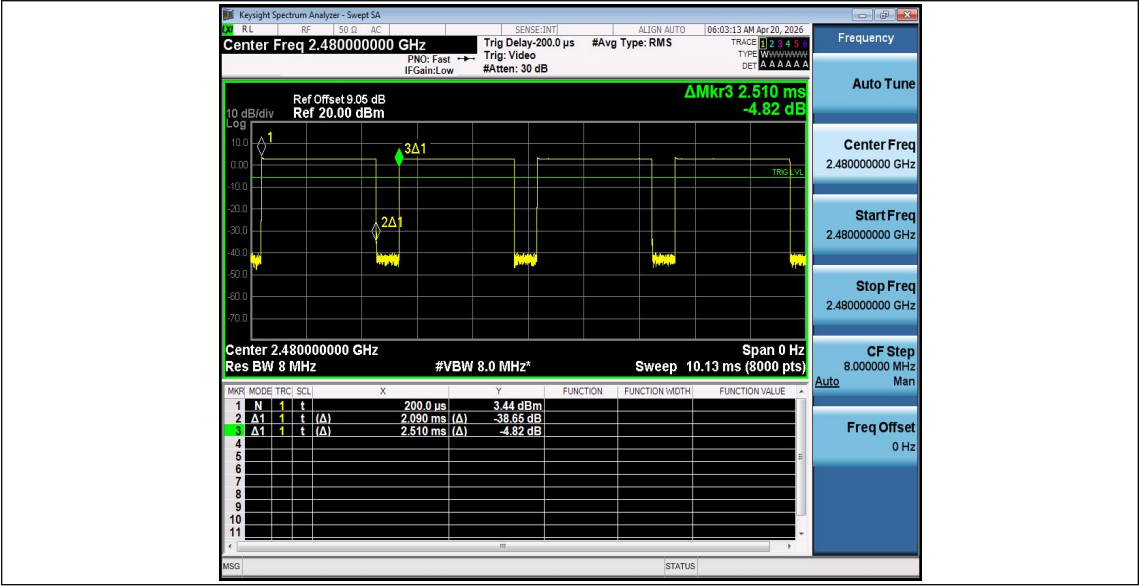
Start Freq
2.440000000 GHz

Stop Freq
2.440000000 GHz

CF Step
8.000000 MHz
Man

Freq Offset
0 Hz

BLE_Ant1_2480



Appendix A.8: Emissions in Restricted Bands

Test Result

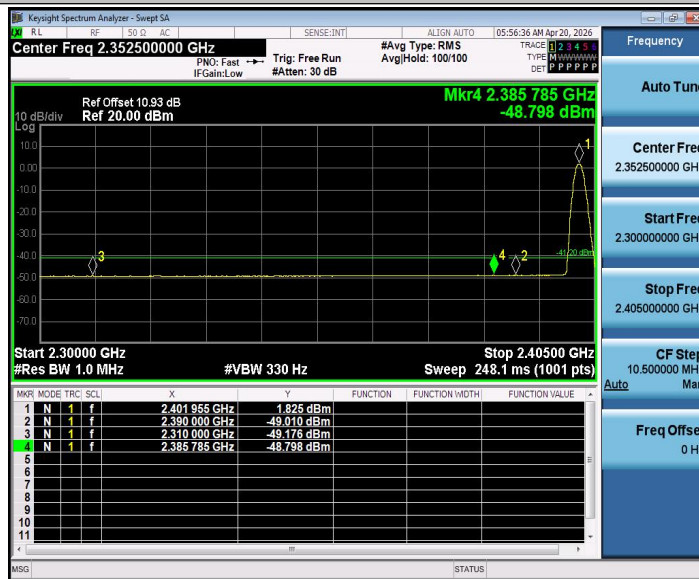
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.18	≤-41.20	46.02	≤54	PASS
				AV	2385.785	-48.8	≤-41.20	46.40	≤54	PASS
				AV	2390.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2310.000	-42.58	≤-21.20	52.62	≤74	PASS
				Peak	2311.025	-38.85	≤-21.20	56.35	≤74	PASS
				Peak	2390.000	-42.86	≤-21.20	52.34	≤74	PASS
		High	2480	AV	2483.500	-47.74	≤-41.20	47.46	≤54	PASS
				AV	2483.520	-47.74	≤-41.20	47.46	≤54	PASS
				AV	2500.000	-48.43	≤-41.20	46.77	≤54	PASS
				Peak	2483.500	-41.4	≤-21.20	53.80	≤74	PASS
				Peak	2497.600	-38.2	≤-21.20	57.00	≤74	PASS
				Peak	2500.000	-41.39	≤-21.20	53.81	≤74	PASS

Note:

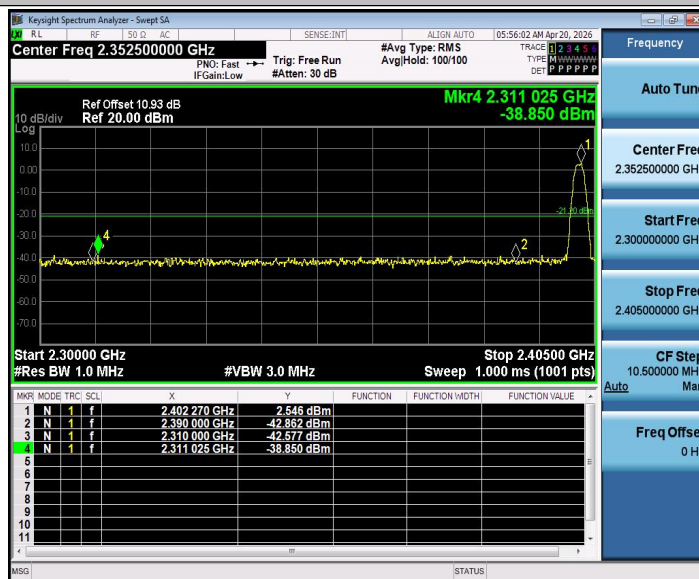
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

BLE_Ant1_Low_2402_AV



BLE_Ant1_Low_2402_Peak



BLE_Ant1_High_2480_AV

