

Case No. : <u>GTS20260831011-2-02</u>	
Ambient Condition: <u>24</u> °C, <u>50</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2026.9.18-2026.10.17</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	0.644	2401.724	2402.368	0.5	PASS
		2440	0.704	2439.688	2440.392	0.5	PASS
		2480	0.676	2479.736	2480.412	0.5	PASS

Test Graphs



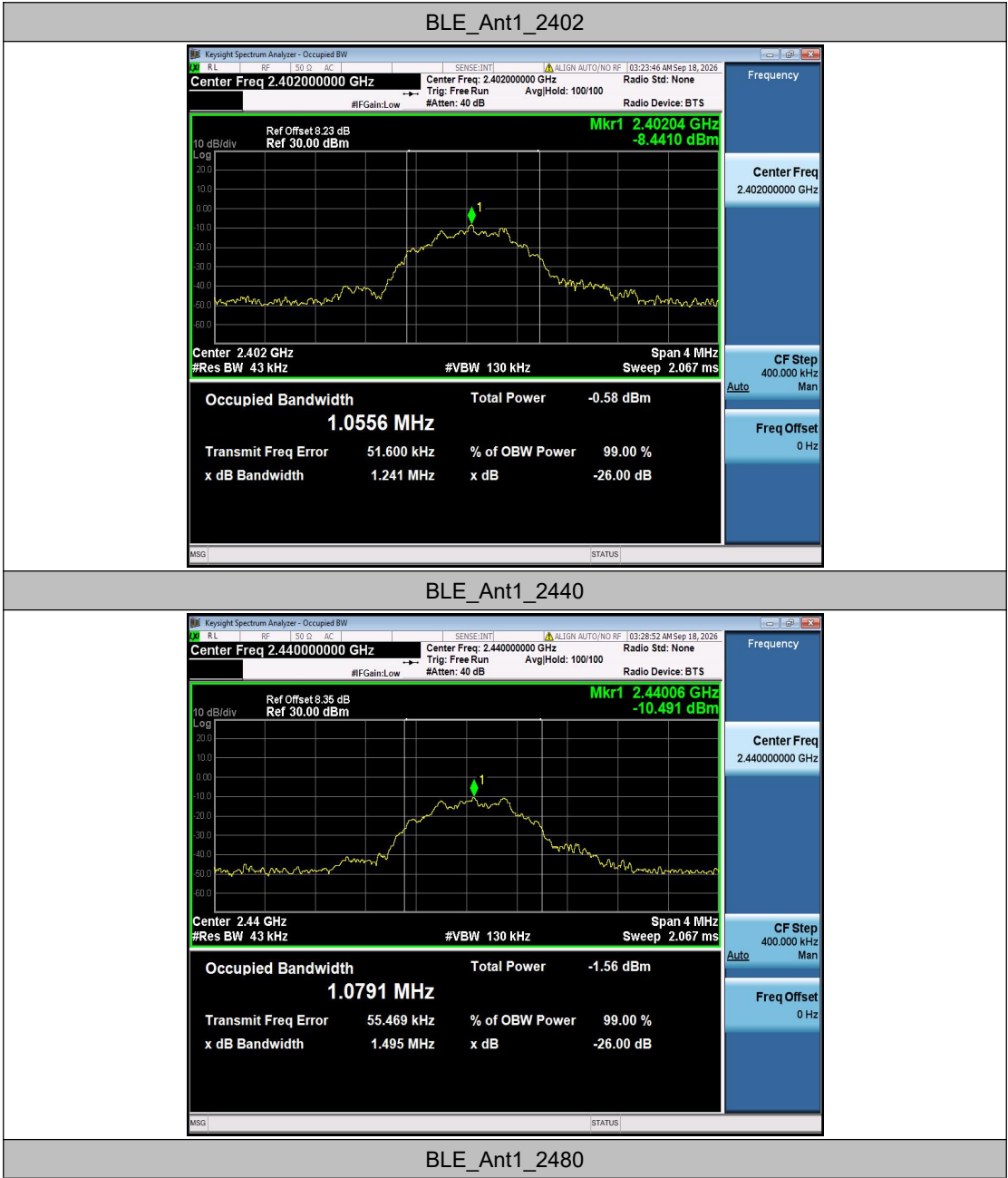


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0556	2401.5238	2402.5794	---	---
		2440	1.0791	2439.5159	2440.5950	---	---
		2480	1.1492	2479.4317	2480.5809	---	---

Test Graphs



BLE_Ant1_2440

Keysight Spectrum Analyzer - Occupied BW

Center Freq 2.440000000 GHz

Center Freq: 2.440000000 GHz

Trig: Free Run

Avg/Hold: 100/100

Radio Std: None

Radio Device: BTS

Ref Offset 8.35 dB

Ref 30.00 dBm

Mkr1 2.44006 GHz

-10.491 dBm

10 dB/div

Log

Center 2.44 GHz

#Res BW 43 kHz

#VBW 130 kHz

Span 4 MHz

Sweep 2.067 ms

Occupied Bandwidth

1.0791 MHz

Total Power

-1.56 dBm

Transmit Freq Error

55.469 kHz

% of OBW Power

99.00 %

x dB Bandwidth

1.495 MHz

x dB

-26.00 dB

MSG

STATUS

Frequency

Center Freq

2.440000000 GHz

CF Step

400.000 kHz

Auto

Man

Freq Offset

0 Hz

BLE_Ant1_2480



Appendix A.3: Maximum conducted output power

Test Result

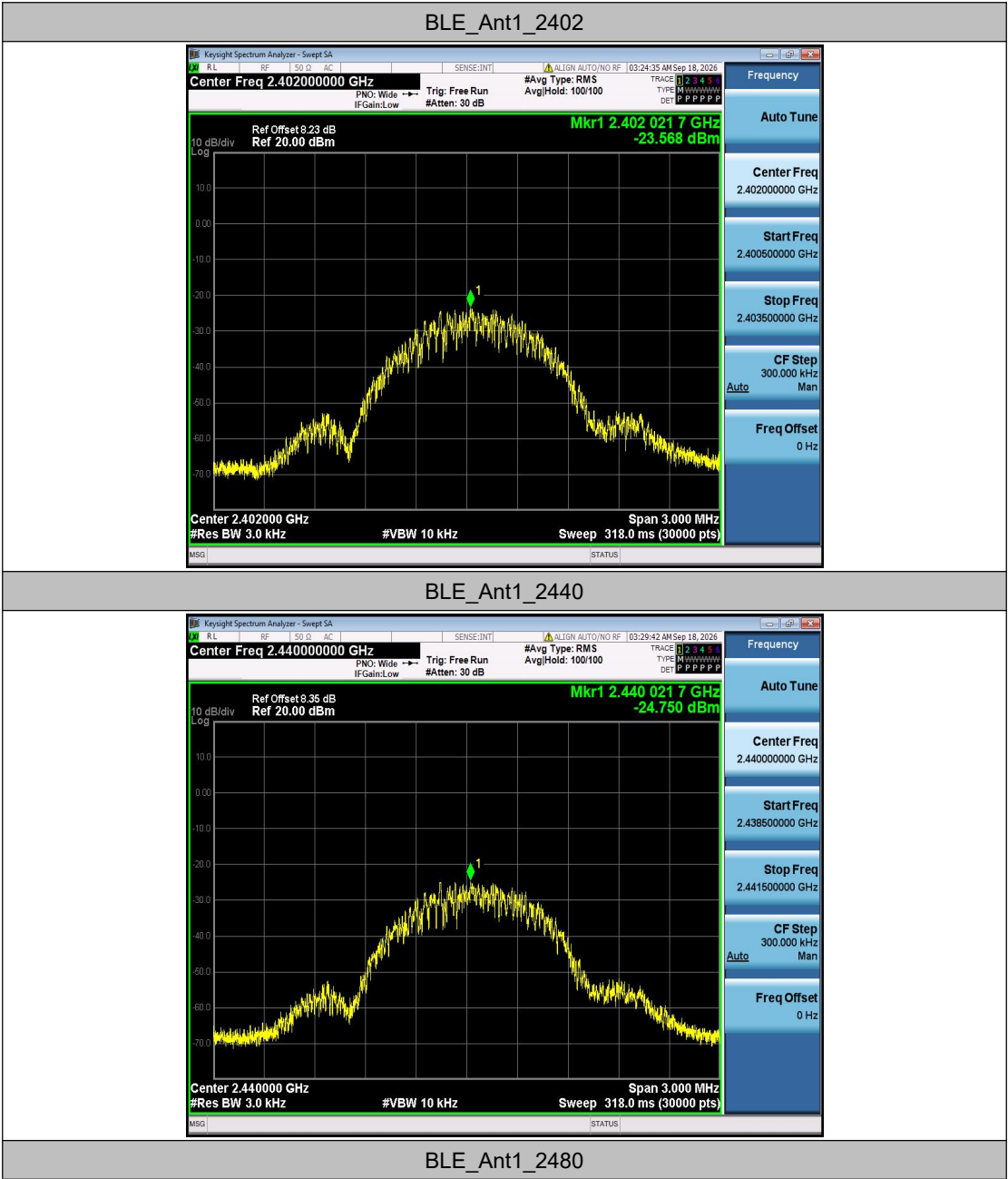
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-7.24	≤30	PASS
		2440	-8.18	≤30	PASS
		2480	-6.93	≤30	PASS

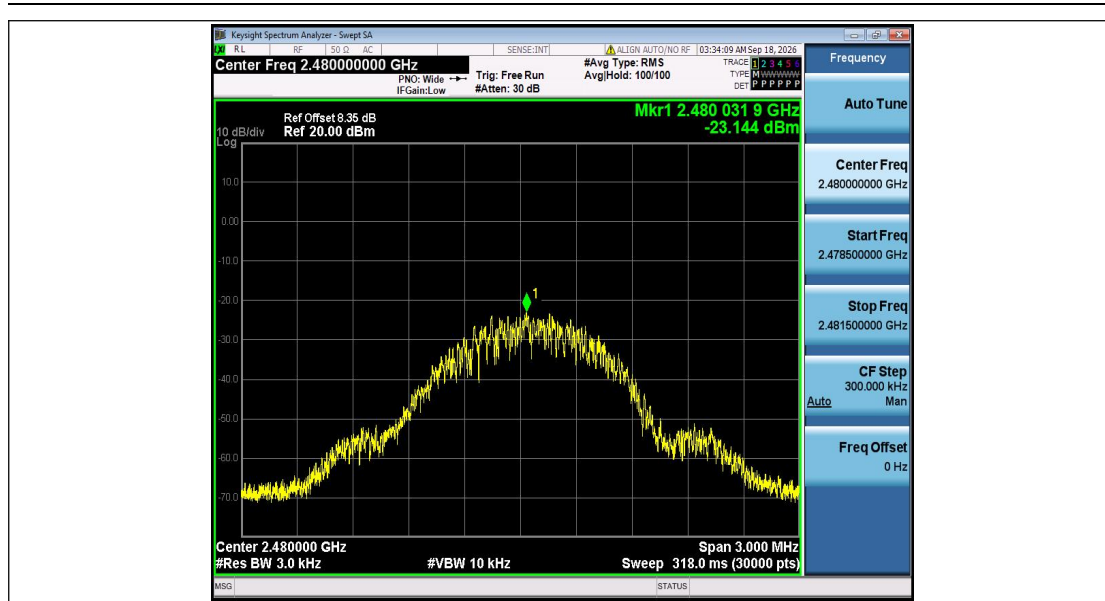
Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-23.57	≤ 8.00	PASS
		2440	-24.75	≤ 8.00	PASS
		2480	-23.14	≤ 8.00	PASS

Test Graphs



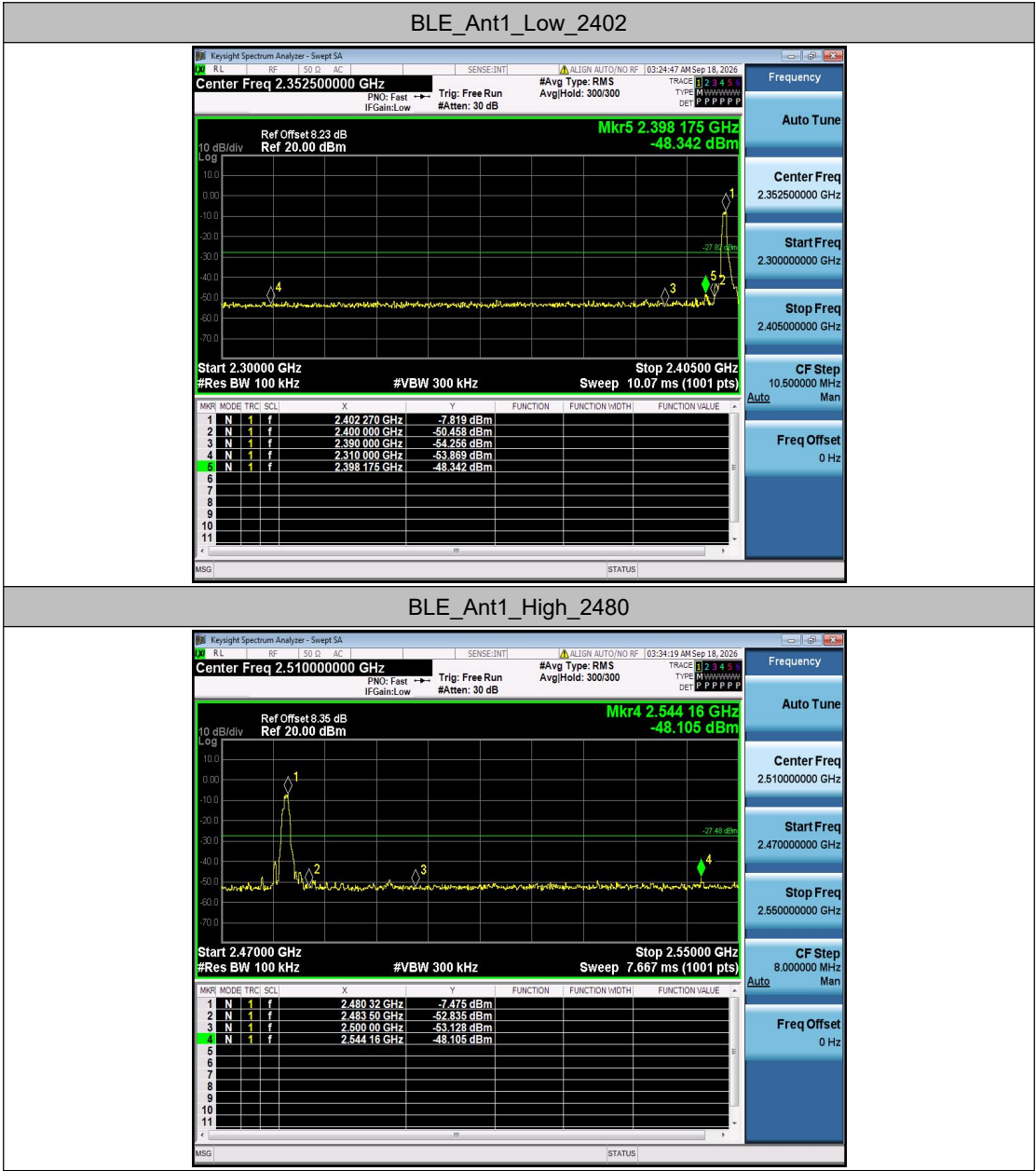


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-7.82	-48.34	≤-27.82	PASS
		High	2480	-7.48	-48.11	≤-27.48	PASS

Test Graphs

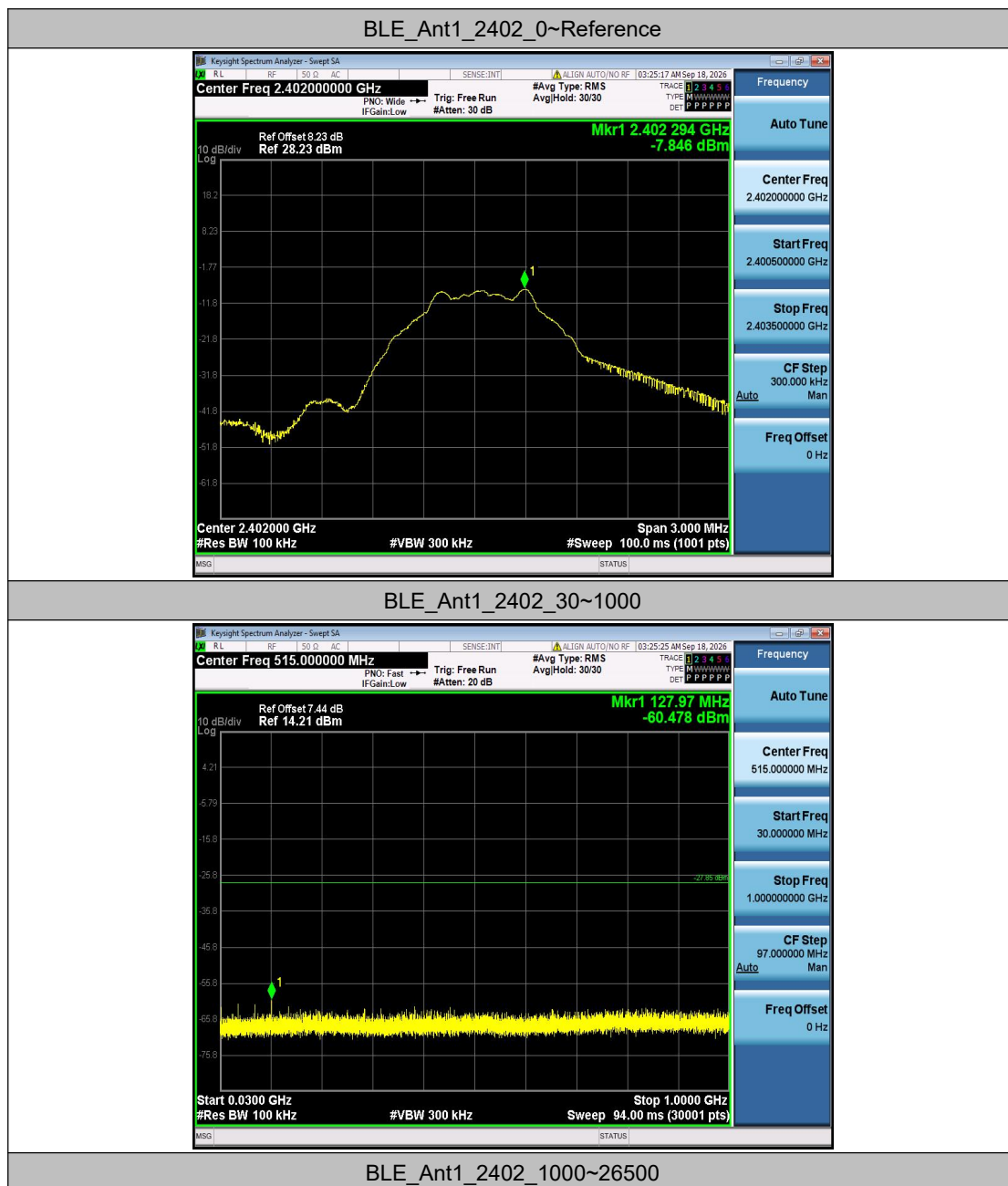


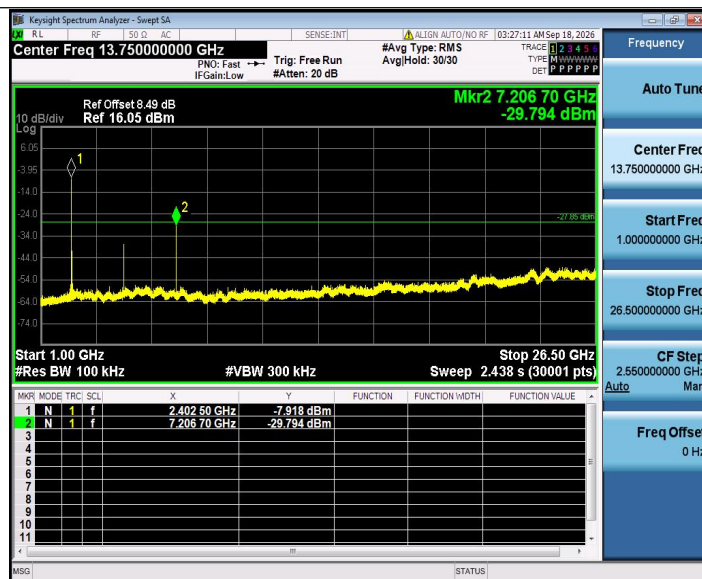
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-7.85	-7.85	---	PASS
			30~1000	-7.85	-60.48	≤ -27.85	PASS
			1000~26500	-7.85	-29.79	≤ -27.85	PASS
		2440	Reference	-9.00	-9.00	---	PASS
			30~1000	-9.00	-60.89	≤ -29	PASS
			1000~26500	-9.00	-31.17	≤ -29	PASS
		2480	Reference	-7.41	-7.41	---	PASS
			30~1000	-7.41	-60.19	≤ -27.41	PASS
			1000~26500	-7.41	-34.21	≤ -27.41	PASS

Test Graphs

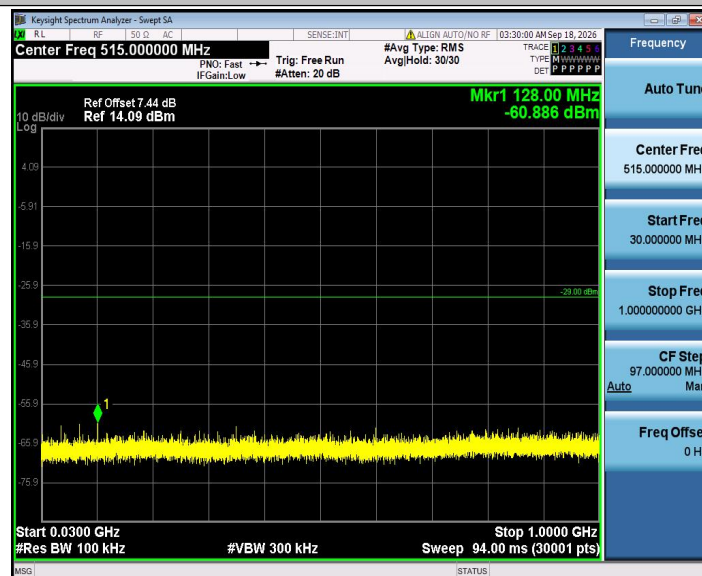


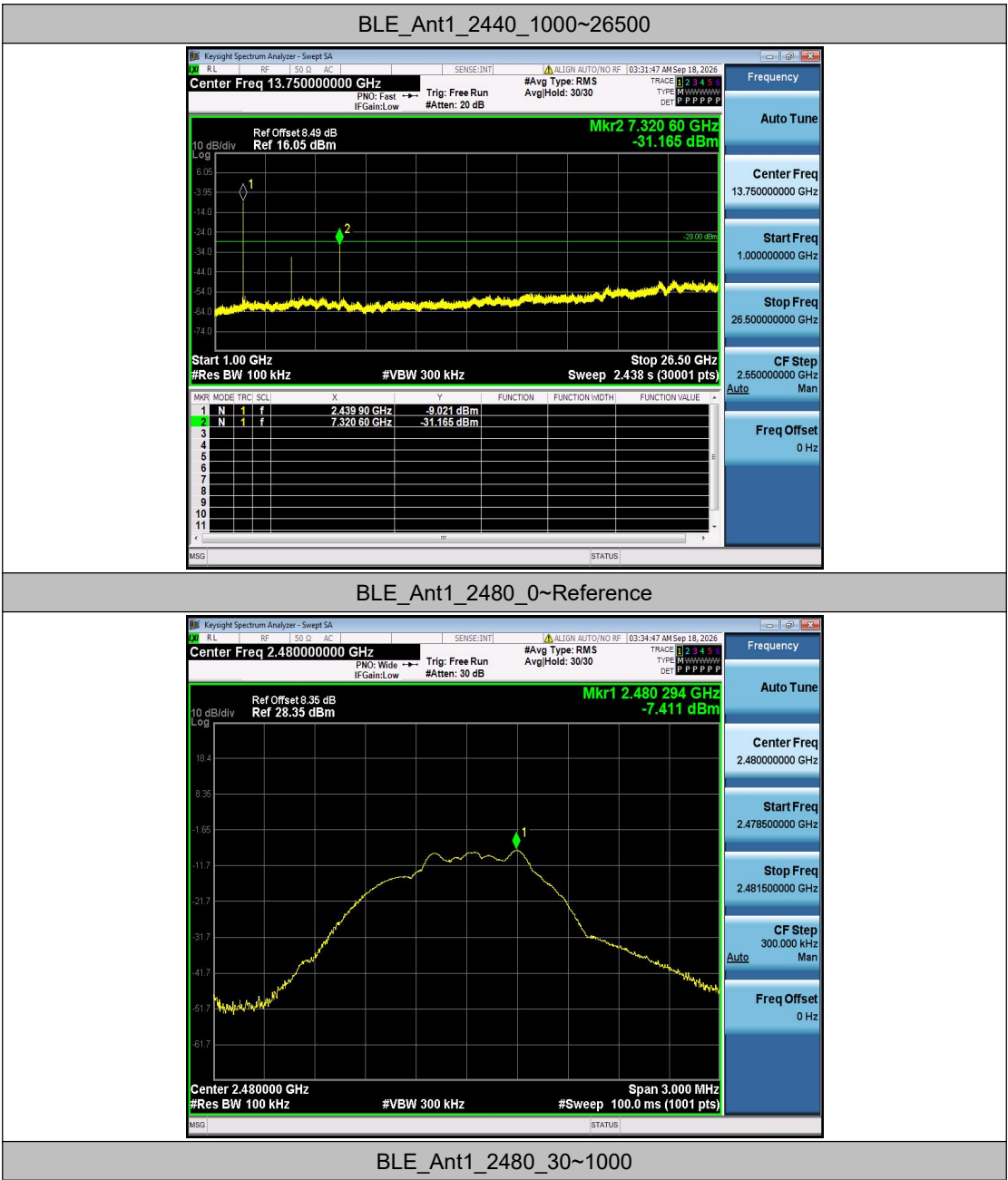


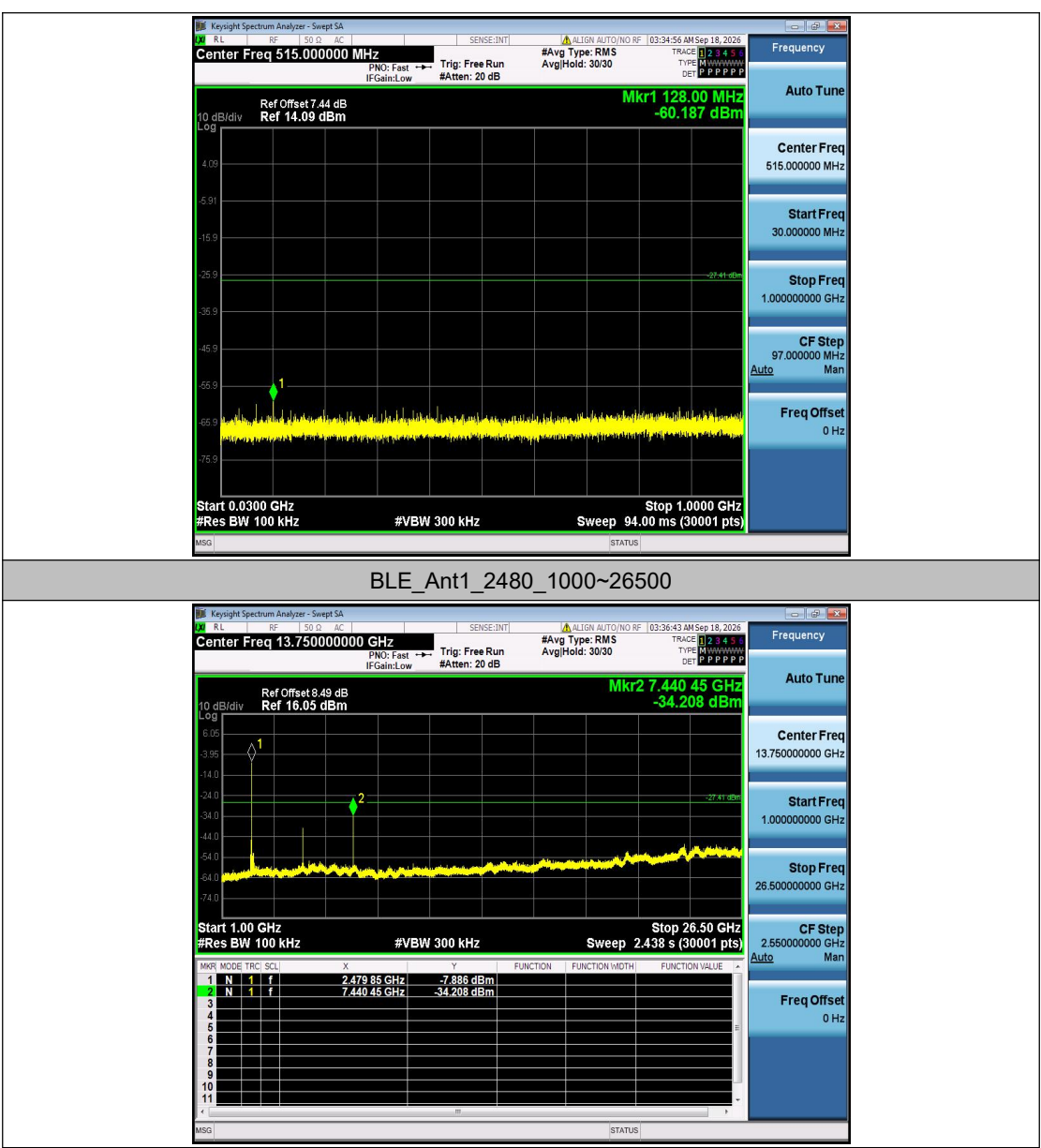
BLE_Ant1_2440_0~Reference



BLE_Ant1_2440_30~1000





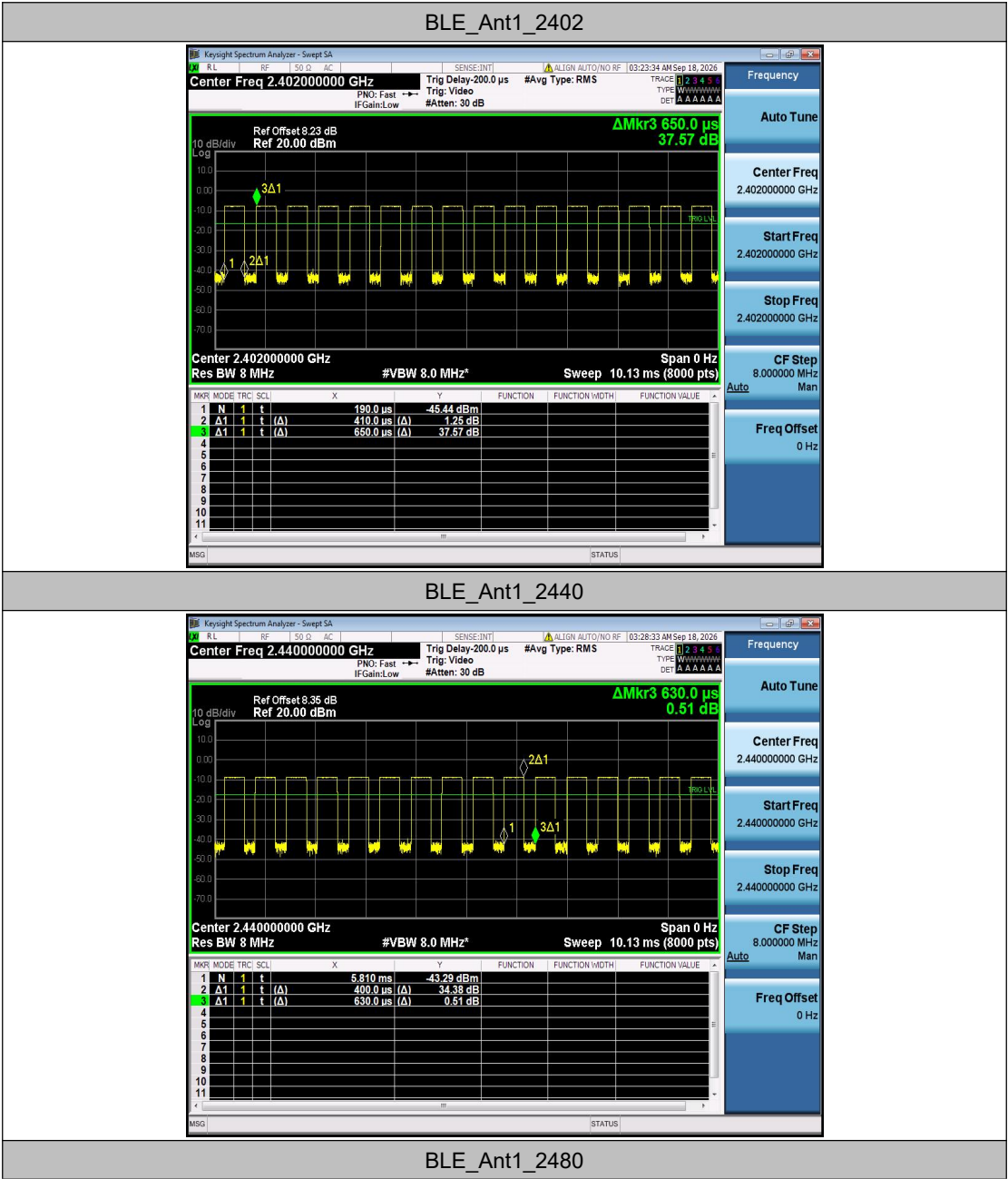


Appendix A.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE	Ant1	2402	0.41	0.65	0.6308	63.08	2.00	2.44
		2440	0.40	0.63	0.6349	63.49	1.97	2.50
		2480	0.40	0.63	0.6349	63.49	1.97	2.50

Test Graphs



BLE_Ant1_2440

Keysight Spectrum Analyzer - Swept SA

RF: 150.0 AC

SENSE:INT

ALIGN AUTO/NO RF

03:28:33 AM Sep 18, 2026

Center Freq 2.440000000 GHz

Trig Delay: 200.0 μ s

#Avg Type: RMS

TRIGGER: 1 2 3 4 5 6 7 8 9 10 11

TYPE: Wwwwwww

DET: AAAAAA

Ref Offset 8.35 dB

Ref 20.00 dBm

Δ Mkr3 630.0 μ s

0.51 dB

Center 2.440000000 GHz

Res BW 8 MHz

#VBW 8.0 MHz

Sweep 10.13 ms (8000 pts)

Span 0 Hz

Auto

Frequency

Auto Tune

Center Freq 2.440000000 GHz

Start Freq 2.440000000 GHz

Stop Freq 2.440000000 GHz

CF Step 8.000000 MHz

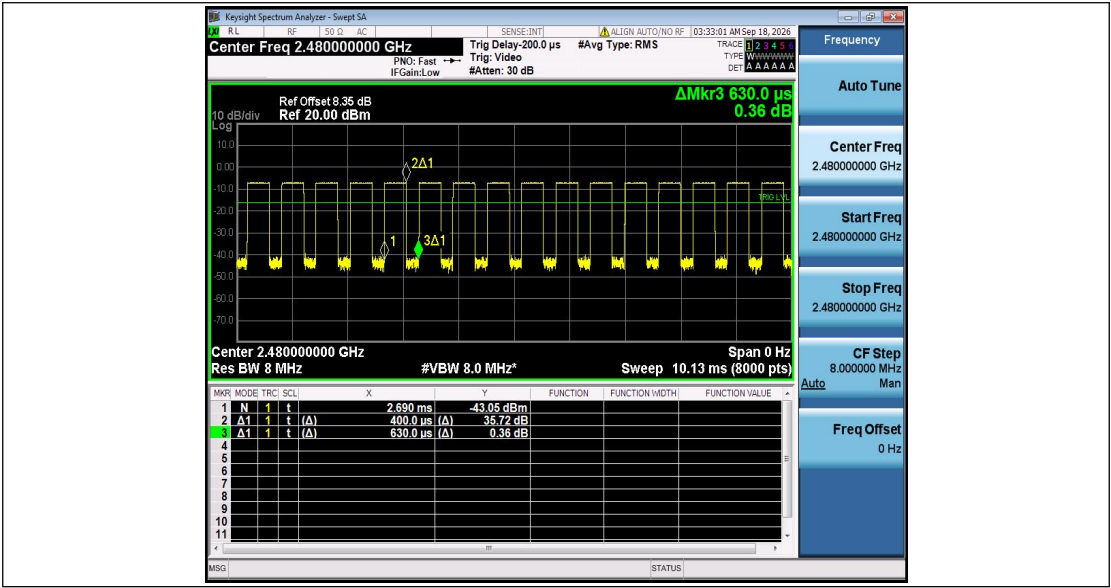
Man

Freq Offset 0 Hz

MSG

STATUS

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	-49.54	≤-41.20	45.66	≤54	PASS
				AV	2386.310	-47.89	≤-41.20	47.31	≤54	PASS
				AV	2390.000	-49.12	≤-41.20	46.08	≤54	PASS
				Peak	2310.000	-43.37	≤-21.20	51.83	≤74	PASS
				Peak	2363.315	-39.56	≤-21.20	55.64	≤74	PASS
				Peak	2390.000	-44.05	≤-21.20	51.15	≤74	PASS
		High	2480	AV	2483.500	-47.88	≤-41.20	47.32	≤54	PASS
				AV	2496.160	-46.7	≤-41.20	48.50	≤54	PASS
				AV	2500.000	-48.27	≤-41.20	46.93	≤54	PASS
				Peak	2483.500	-37.49	≤-21.20	57.71	≤74	PASS
				Peak	2483.520	-37.49	≤-21.20	57.71	≤74	PASS
				Peak	2500.000	-43.1	≤-21.20	52.10	≤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

