

Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Android Head Unit with Floating Screen

Test Model: RVHU-130-ADF

Environmental Conditions

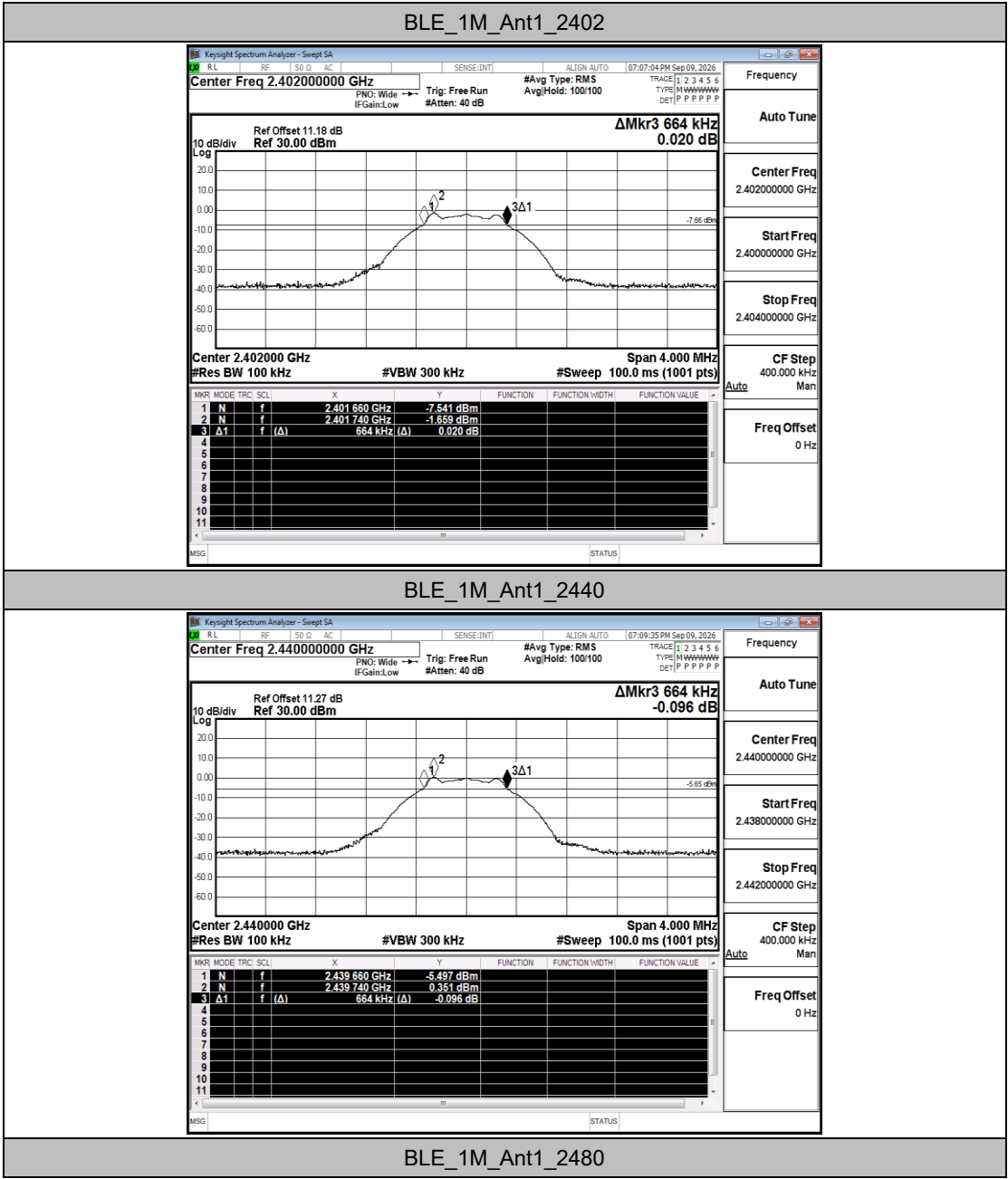
Temperature:	26.3°C
Relative Humidity:	54.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

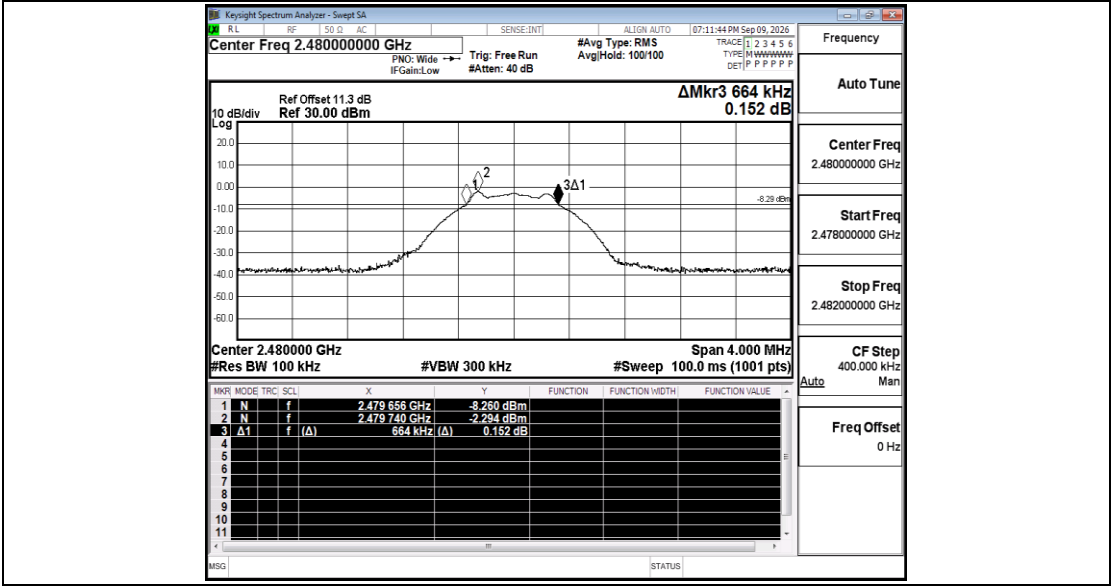
B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq (MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.660	2402.324	0.5	PASS
		2440	0.664	2439.660	2440.324	0.5	PASS
		2480	0.664	2479.656	2480.320	0.5	PASS

Test Graphs



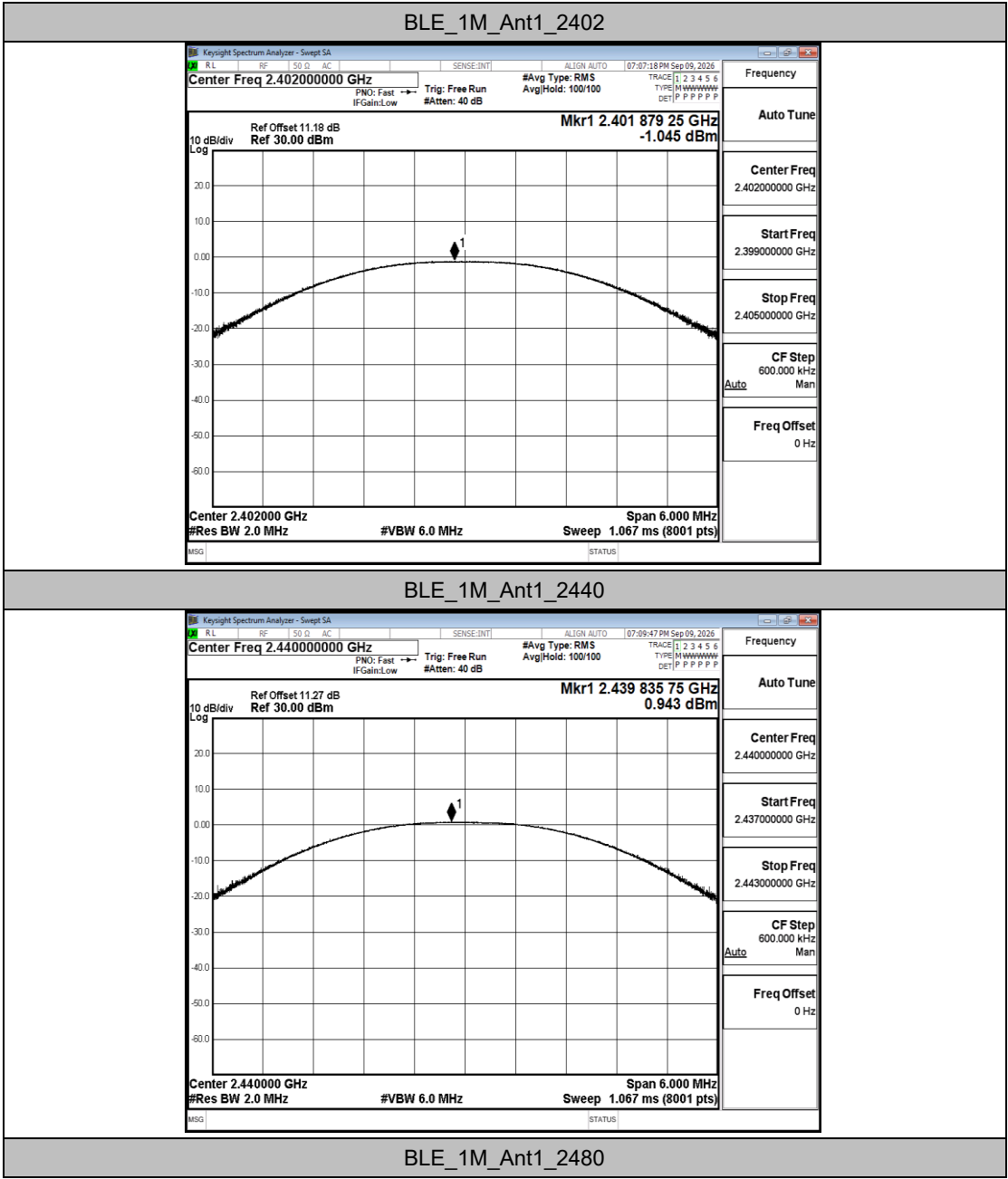


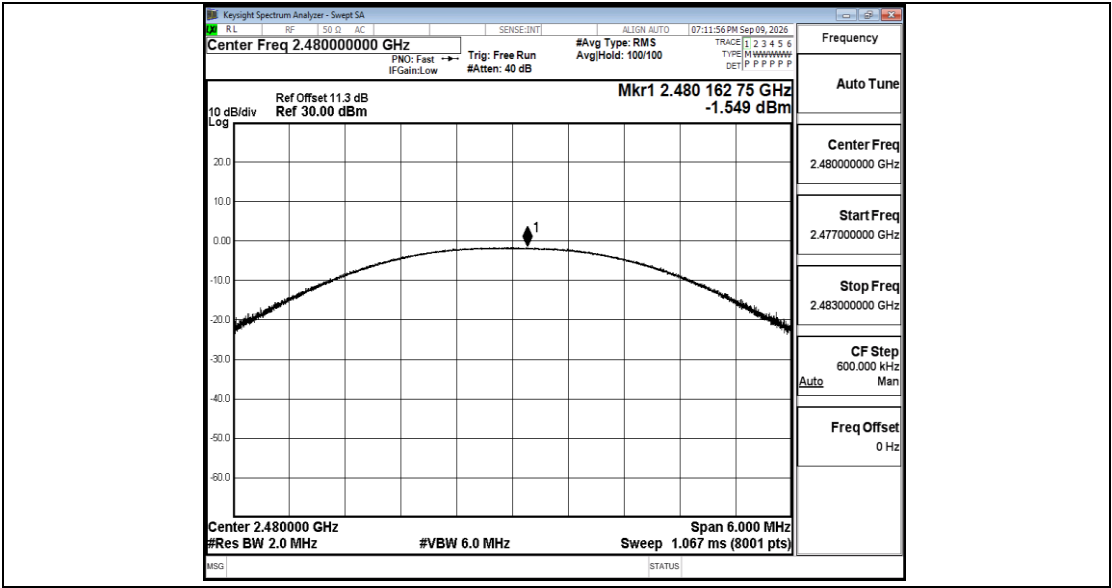
B.2 Maximum Peak conducted output power

Test Result Peak

TestMode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.05	≤30	PASS
		2440	0.94	≤30	PASS
		2480	-1.55	≤30	PASS

Test Graphs Peak



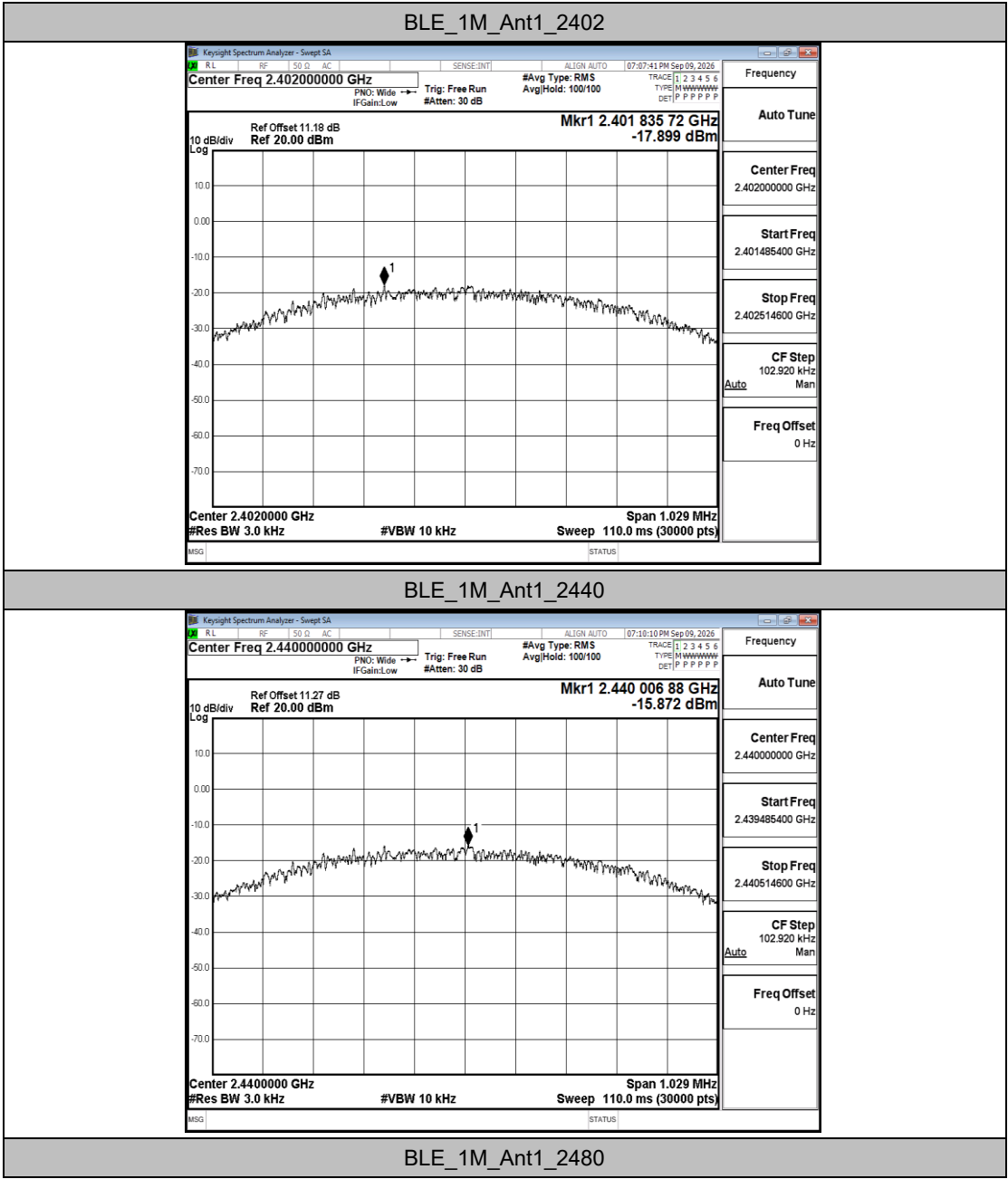


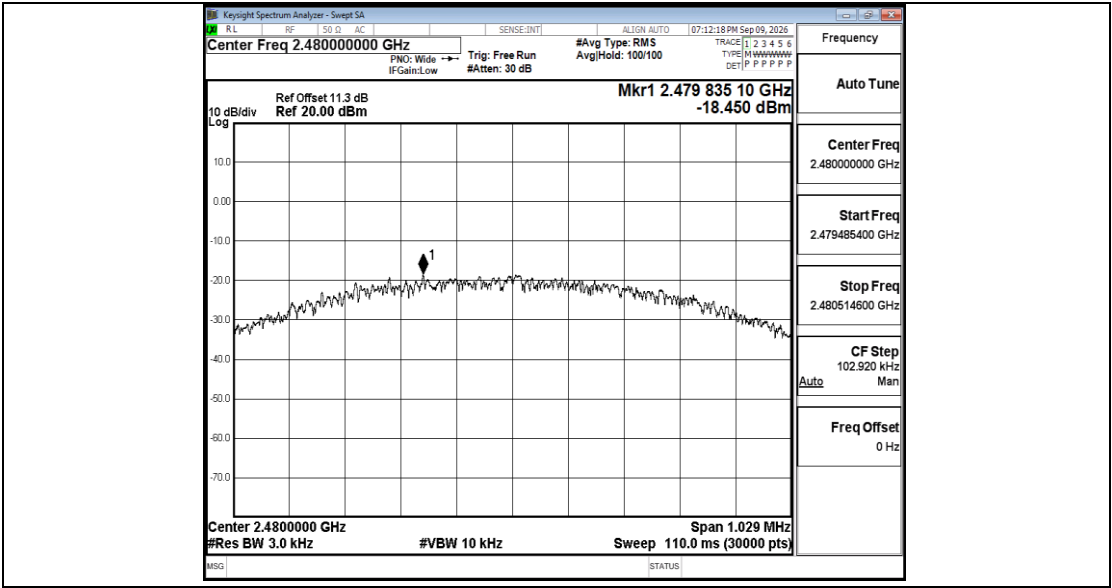
B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq (MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.90	≤8.00	PASS
		2440	-15.87	≤8.00	PASS
		2480	-18.45	≤8.00	PASS

Test Graphs



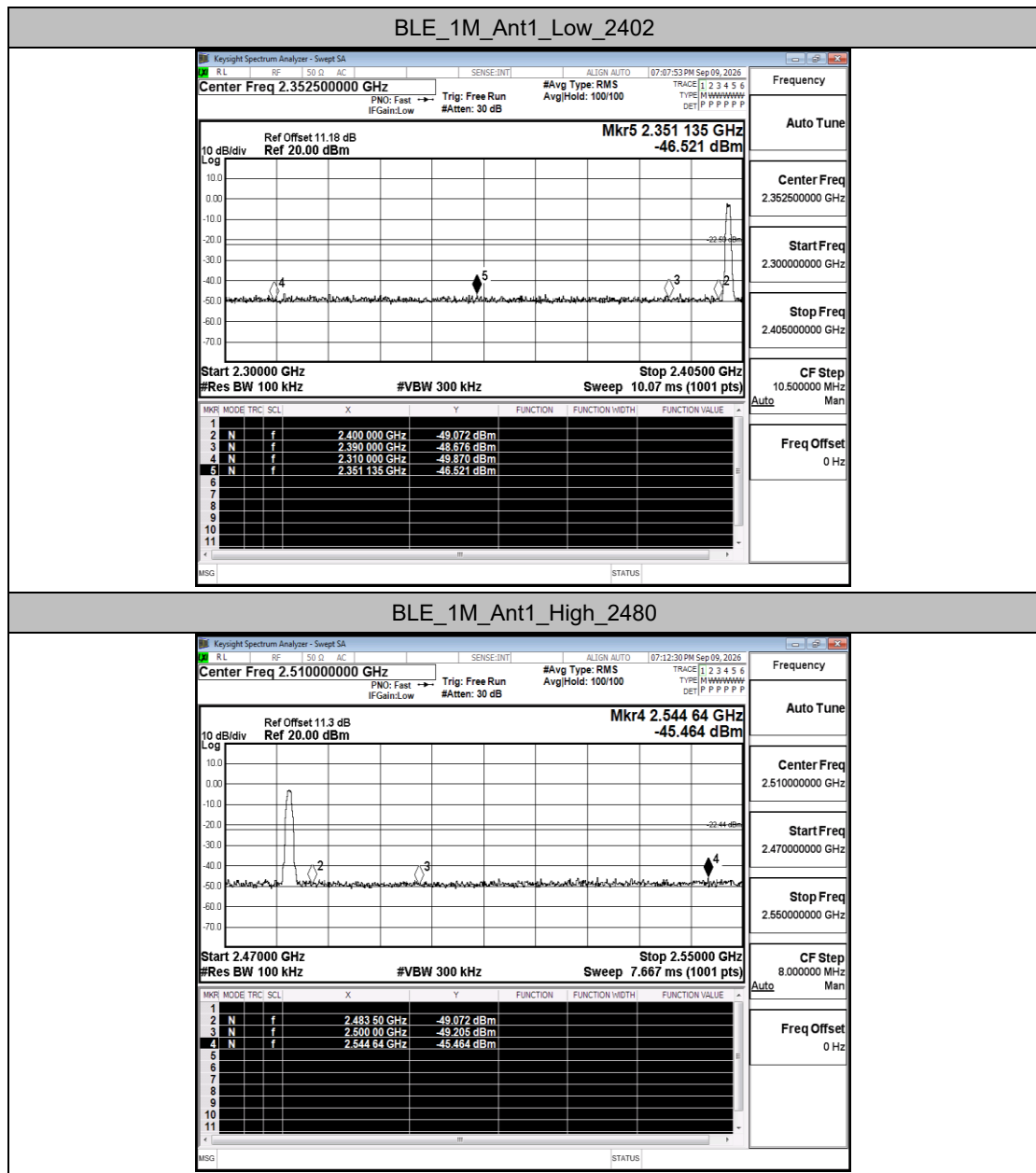


B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.59	-46.52	≤-22.59	PASS
		High	2480	-2.44	-45.46	≤-22.44	PASS

Test Graphs

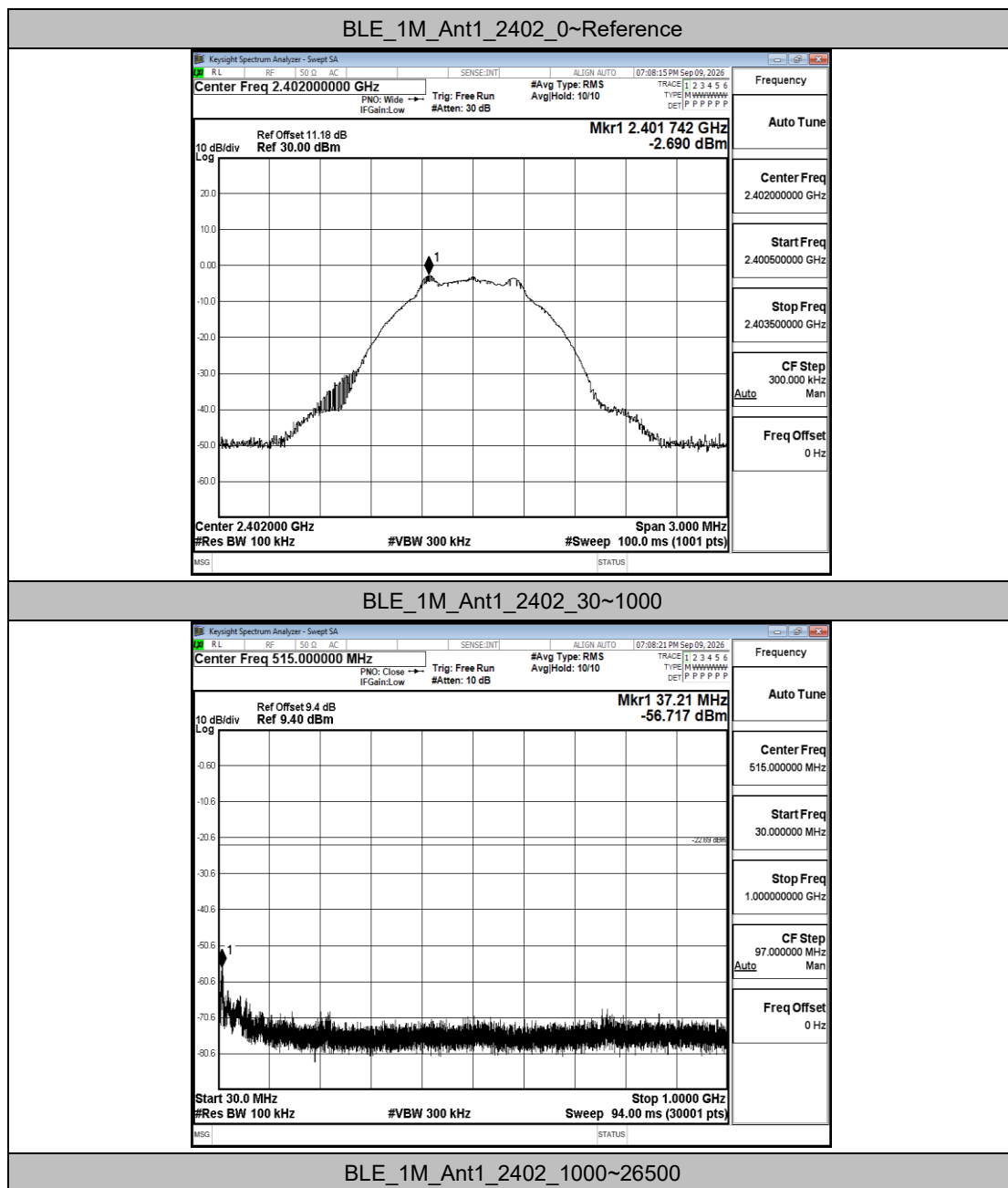


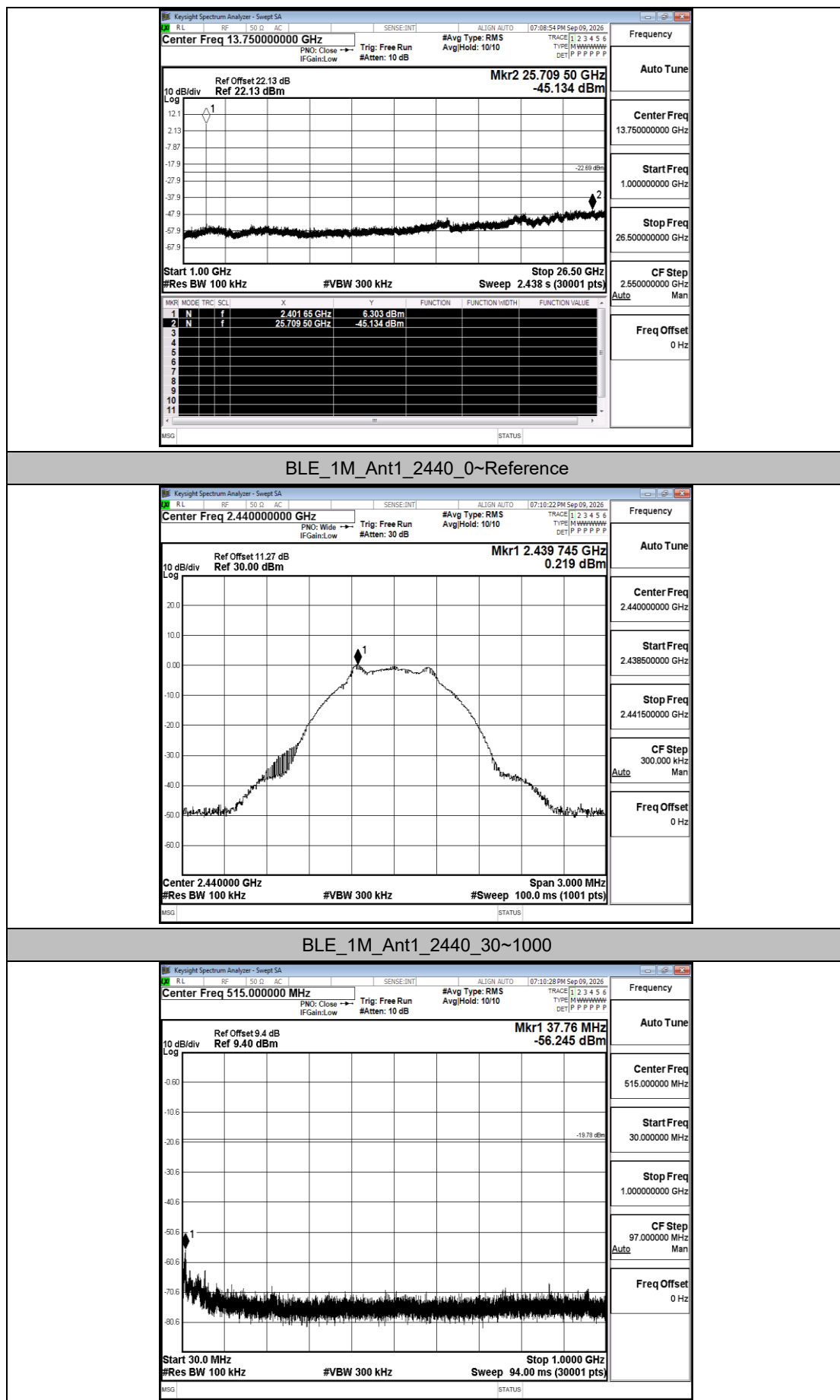
B.5 Conducted Spurious Emission

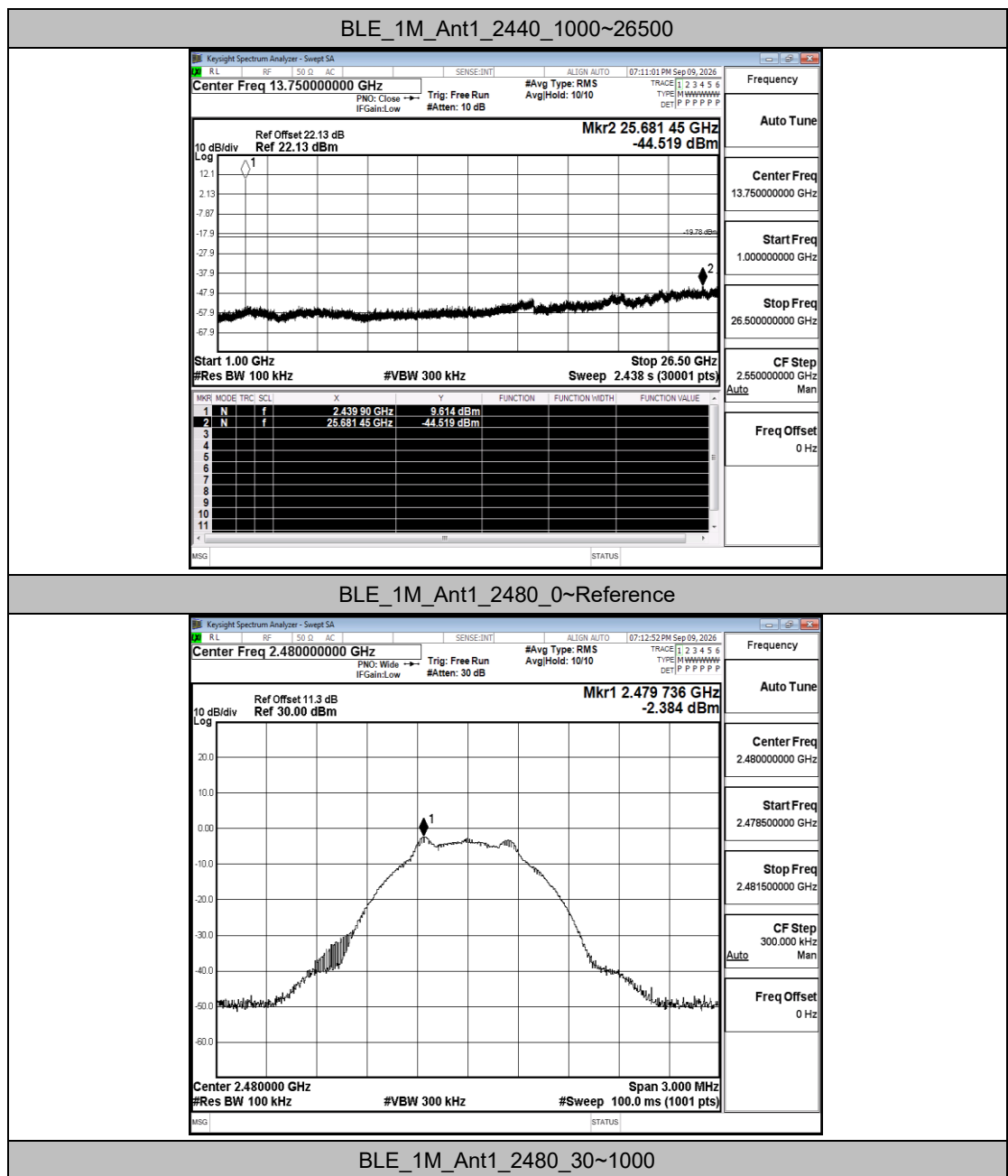
Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.69	-2.69	---	PASS
			30~1000	-2.69	-56.72	≤-22.69	PASS
			1000~26500	-2.69	-45.13	≤-22.69	PASS
		2440	Reference	0.22	0.22	---	PASS
			30~1000	0.22	-56.25	≤-19.78	PASS
			1000~26500	0.22	-44.52	≤-19.78	PASS
		2480	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-55.06	≤-22.38	PASS
			1000~26500	-2.38	-44.68	≤-22.38	PASS

Test Graphs







BLE_1M_Ant1_2480_0~Reference

KeySight Spectrum Analyzer - Swept SA

RL

RF

SD

D

AC

SENSE:INT

ALIGN AUTO

07:12:52 PM Sep 09, 2026

Center Freq 2.480000000 GHz

Trig: Free Run

PNO: Wide

IF Gain: Low

#Atten: 30 dB

#Avg Type: RMS

Avg Hold: 10/10

TRACE 1 2 3 4 5 6

TYPE: N W W W W W W W

DET: P P P P P P P

Frequency

Auto Tune

Center Freq
2.480000000 GHz

Start Freq
2.478500000 GHz

Stop Freq
2.481500000 GHz

CF Step
300.000 kHz

Auto

Man

Freq Offset
0 Hz

Ref Offset 11.3 dB

Ref 30.00 dBm

Mkr1 2.479 736 GHz

-2.384 dBm

10 dB/div

Log

1

Center 2.480000 GHz

#Res BW 100 kHz

#VBW 300 kHz

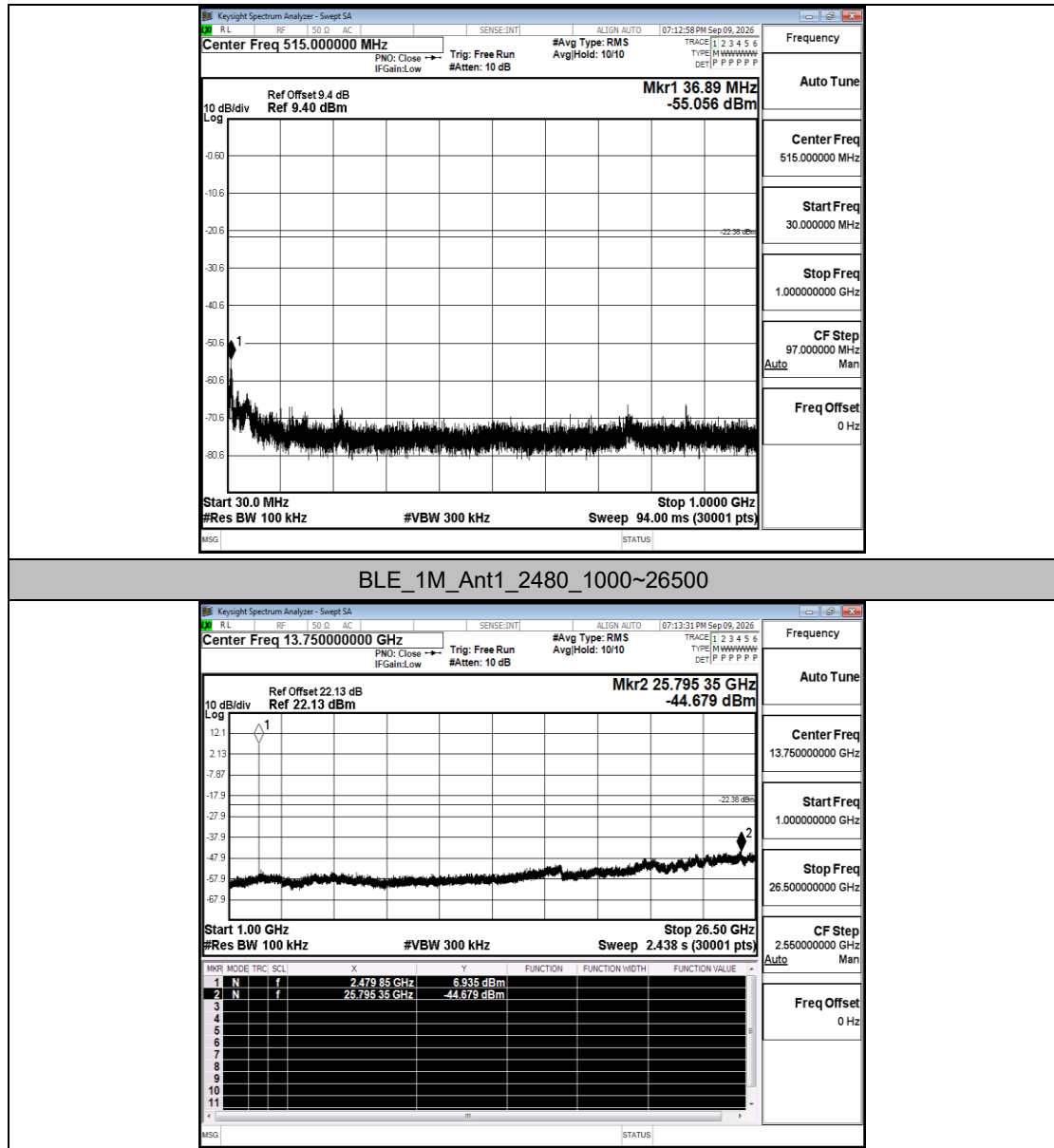
#Sweep 100.0 ms (1001 pts)

Span 3.000 MHz

MSG

STATUS

BLE_1M_Ant1_2480_30~1000

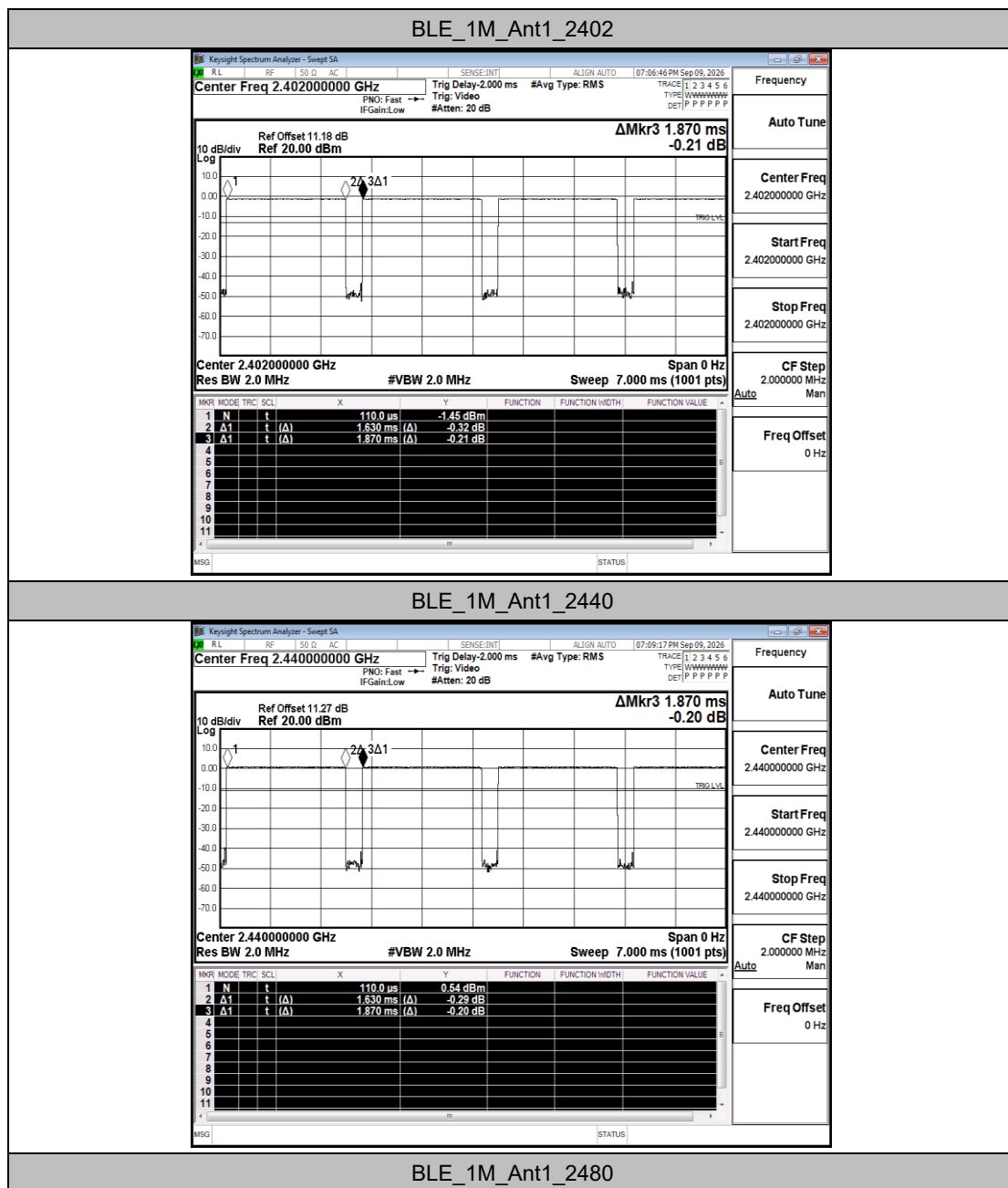


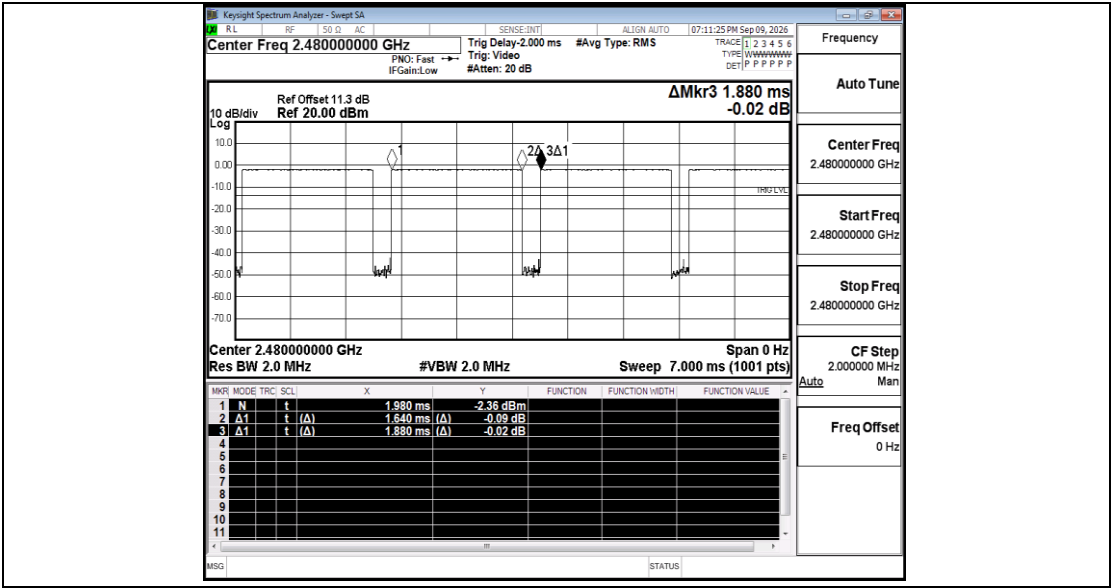
B.6 Duty Cycle

Test Result

TestMode	Antenna	Freq (MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	1.63	1.87	0.8717	87.17	0.60	---	---
		2440	1.63	1.87	0.8717	87.17	0.60	---	---
		2480	1.64	1.88	0.8723	87.23	0.59	---	---

Test Graphs





B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-57.61	≤-44.79	2.99	0.60	41.24	≤54	PASS
				AV	2317.220	-56.91	≤-44.79	2.99	0.60	41.94	≤54	PASS
				AV	2390.000	-57.2	≤-44.79	2.99	0.60	41.65	≤54	PASS
				Peak	2310.000	-50.18	≤-24.19	2.99	0.00	48.07	≤74	PASS
				Peak	2359.430	-46.83	≤-24.19	2.99	0.00	51.42	≤74	PASS
				Peak	2390.000	-50.32	≤-24.19	2.99	0.00	47.93	≤74	PASS
		High	2480	AV	2483.500	-57.13	≤-44.78	2.99	0.59	41.71	≤54	PASS
				AV	2483.760	-56.48	≤-44.78	2.99	0.59	42.36	≤54	PASS
				AV	2500.000	-57.22	≤-44.78	2.99	0.59	41.62	≤54	PASS
				Peak	2483.500	-49.35	≤-24.19	2.99	0.00	48.90	≤74	PASS
				Peak	2486.640	-46.65	≤-24.19	2.99	0.00	51.60	≤74	PASS
				Peak	2500.000	-49.19	≤-24.19	2.99	0.00	49.06	≤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

