

Case No. : <u>GTS20260728001-2-01</u>	
Ambient Condition: <u>25</u> °C, <u>49</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2026.8.20-2026.9.09</u>	Test Engineer: <u>Evan ouyang</u>

Appendix A.1: DTS Bandwidth

Test Result

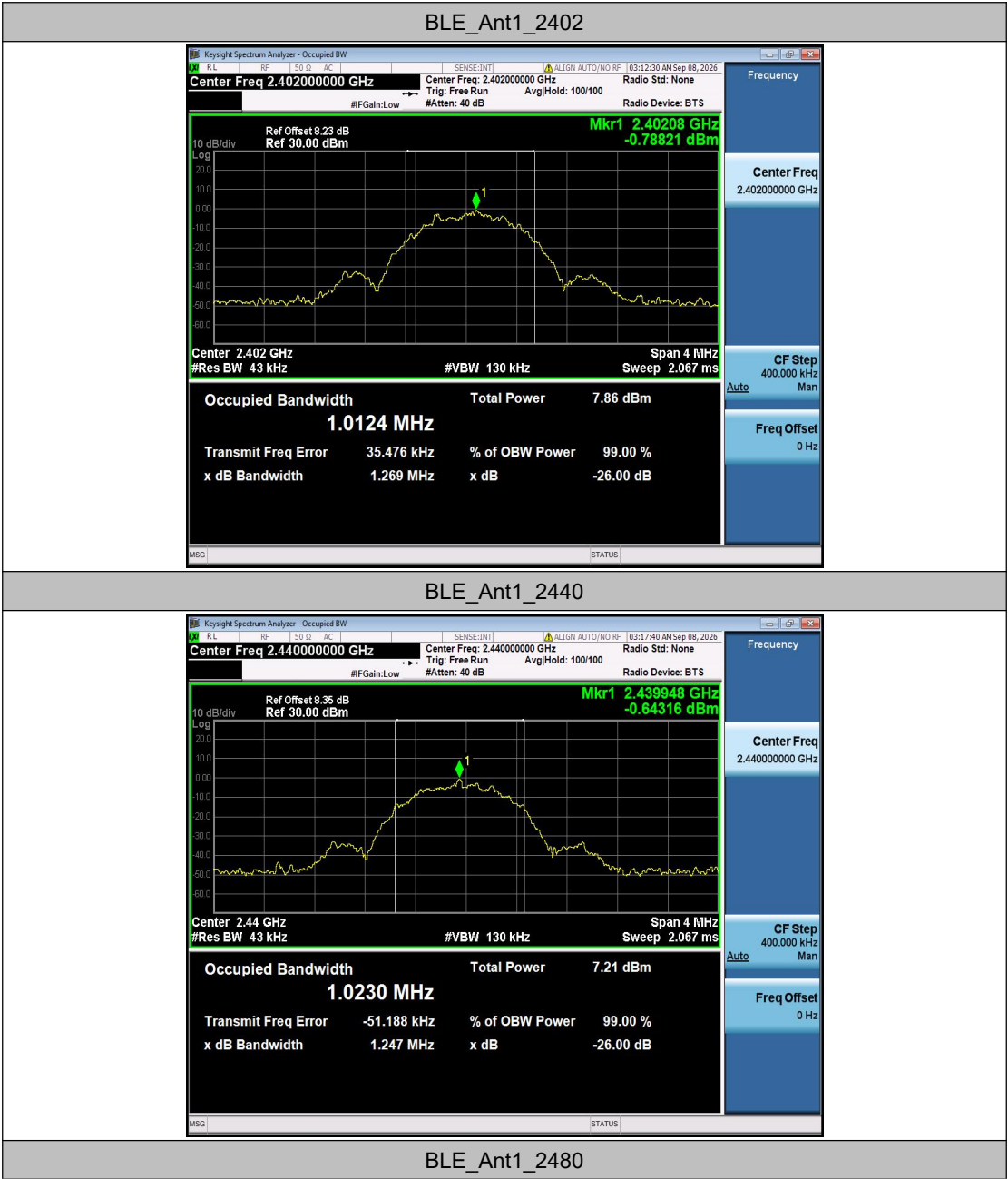
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.716	2401.680	2402.396	0.5	PASS
		2440	0.672	2439.628	2440.300	0.5	PASS
		2480	0.676	2479.476	2480.152	0.5	PASS

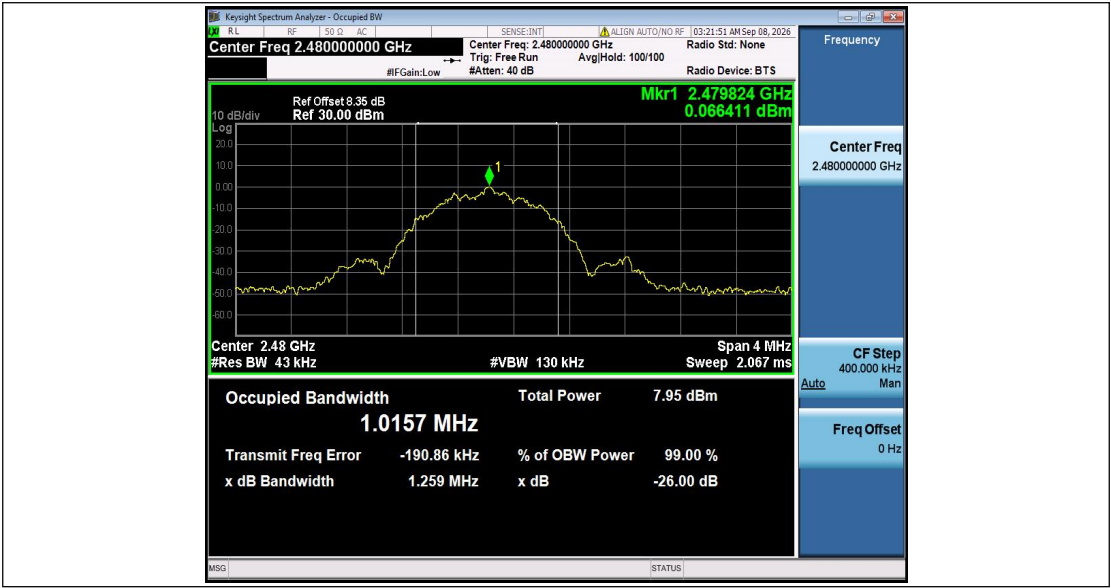
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0124	2401.5293	2402.5417	---	---
		2440	1.0230	2439.4373	2440.4603	---	---
		2480	1.0157	2479.3013	2480.3170	---	---

Test Graphs





Appendix A.3: Maximum conducted output power

Test Result

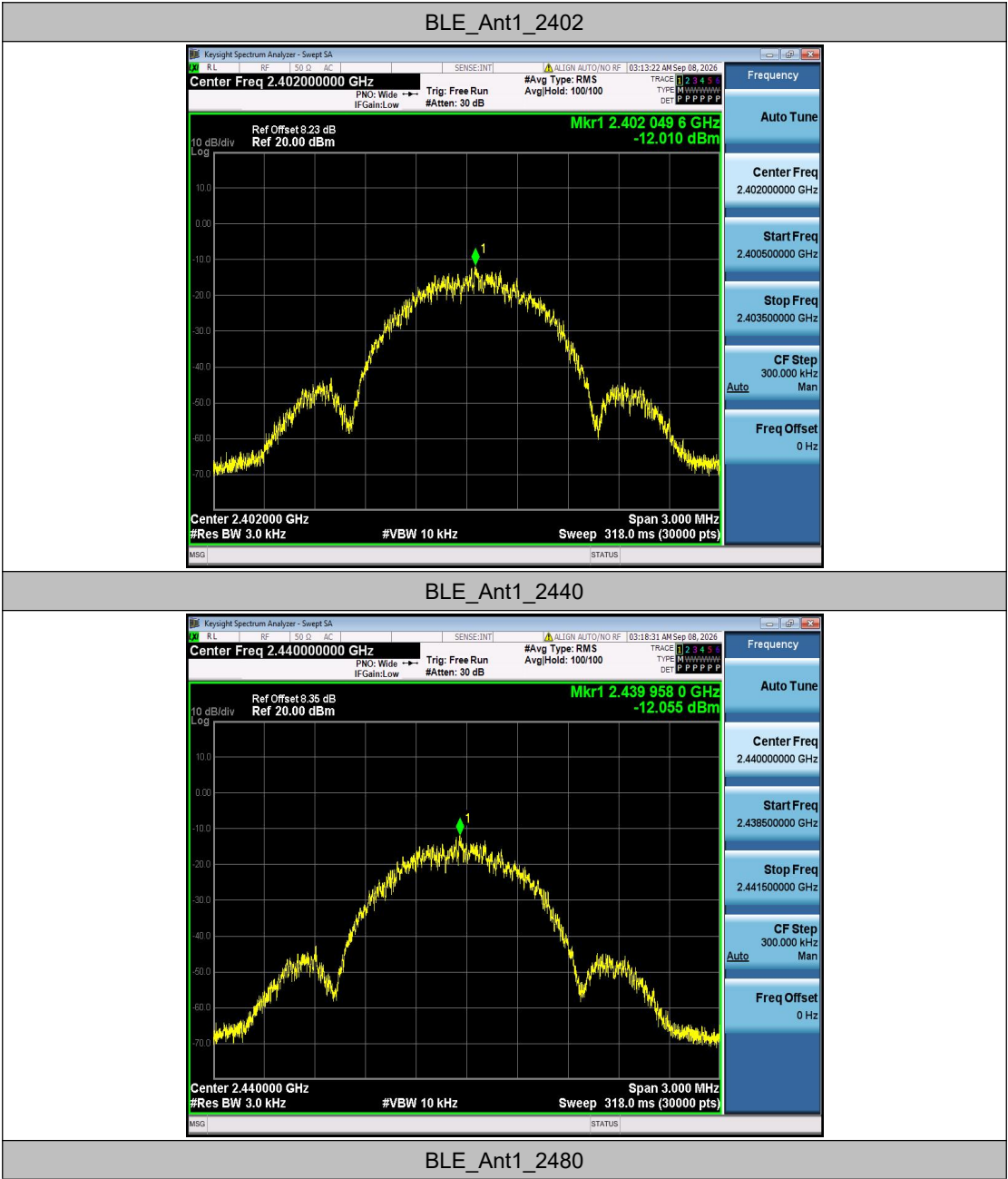
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	0.53	≤30	PASS
		2440	0.18	≤30	PASS
		2480	0.58	≤30	PASS

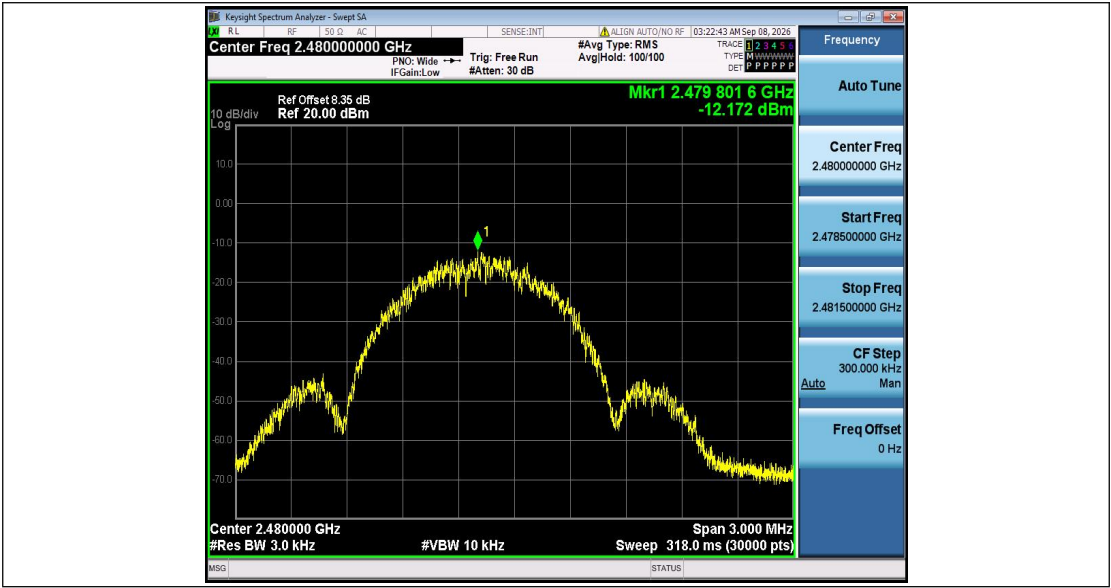
Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-12.01	≤ 8.00	PASS
		2440	-12.06	≤ 8.00	PASS
		2480	-12.17	≤ 8.00	PASS

Test Graphs



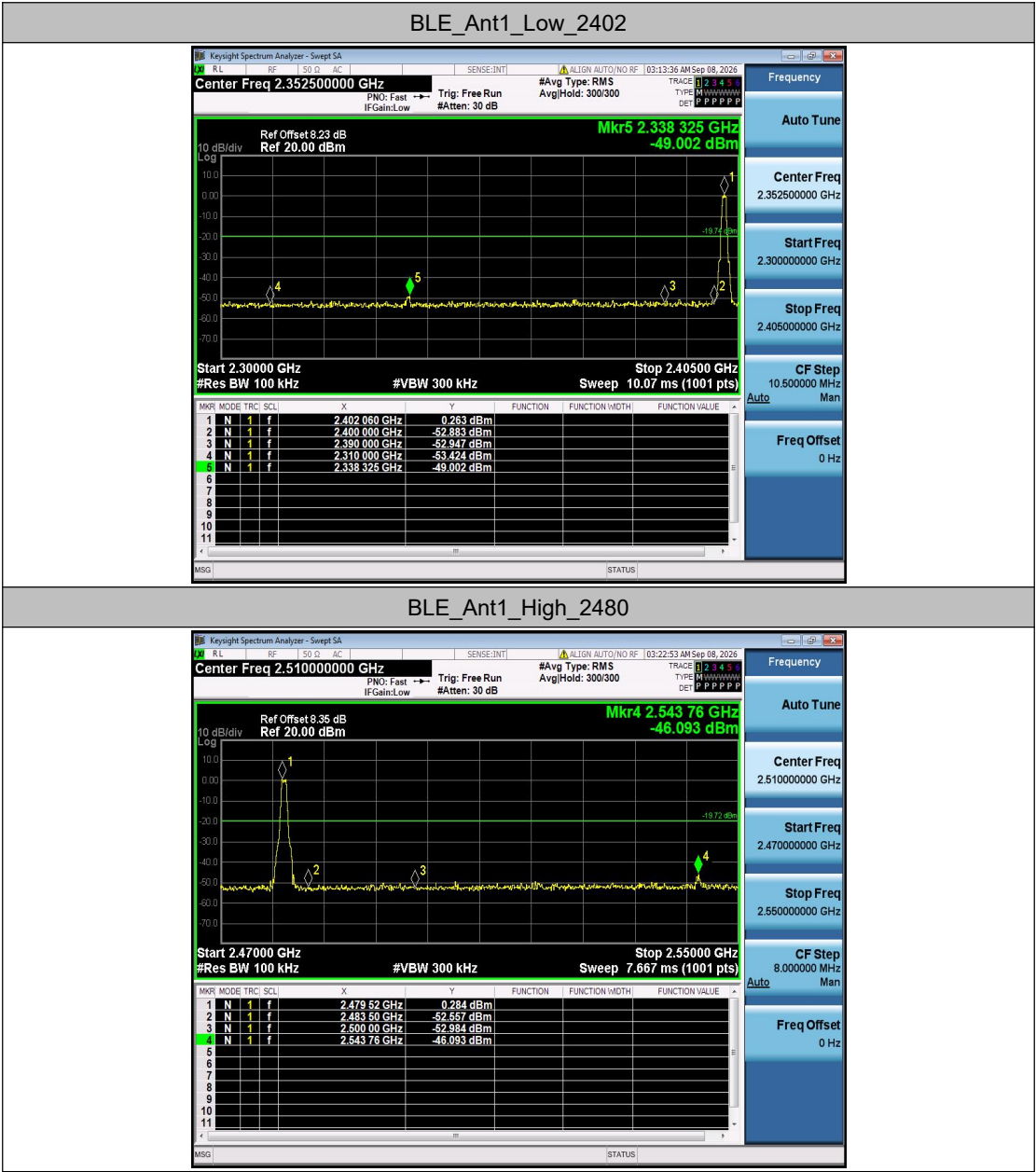


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	0.26	-49	≤-19.74	PASS
		High	2480	0.28	-46.09	≤-19.72	PASS

Test Graphs



BLE_Ant1_High_2480

Keysight Spectrum Analyzer - Sweep SA

RF: 150.0 AC

SENSE:INT

ALIGN AUTO/NO RF

03:22:53 AM Sep 08, 2026

Center Freq 2.510000000 GHz

PN0: Fast IFGain:Low

Trig: Free Run #Atten: 30 dB

#Avg Type: RMS Avg/Hold: 300/300

TRACE 1 2 3 4 5

TYPE M M M M M M M M

DET P P P P P P P

Ref Offset 8.35 dB

Ref 20.00 dBm

Mkr4 2.543 76 GHz

-46.093 dBm

10 dB/div

Log

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-70.0

Start 2.47000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 2.55000 GHz

Sweep 7.667 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION (WIDTH)	FUNCTION VALUE
1	N	1	f	2.479 52 GHz	0.284 dBm			
2	N	1	f	2.483 50 GHz	-52.557 dBm			
3	N	1	f	2.500 00 GHz	-52.984 dBm			
4	N	1	f	2.543 76 GHz	-46.093 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.510000000 GHz

Start Freq 2.470000000 GHz

Stop Freq 2.550000000 GHz

CF Step 8.000000 MHz

Man

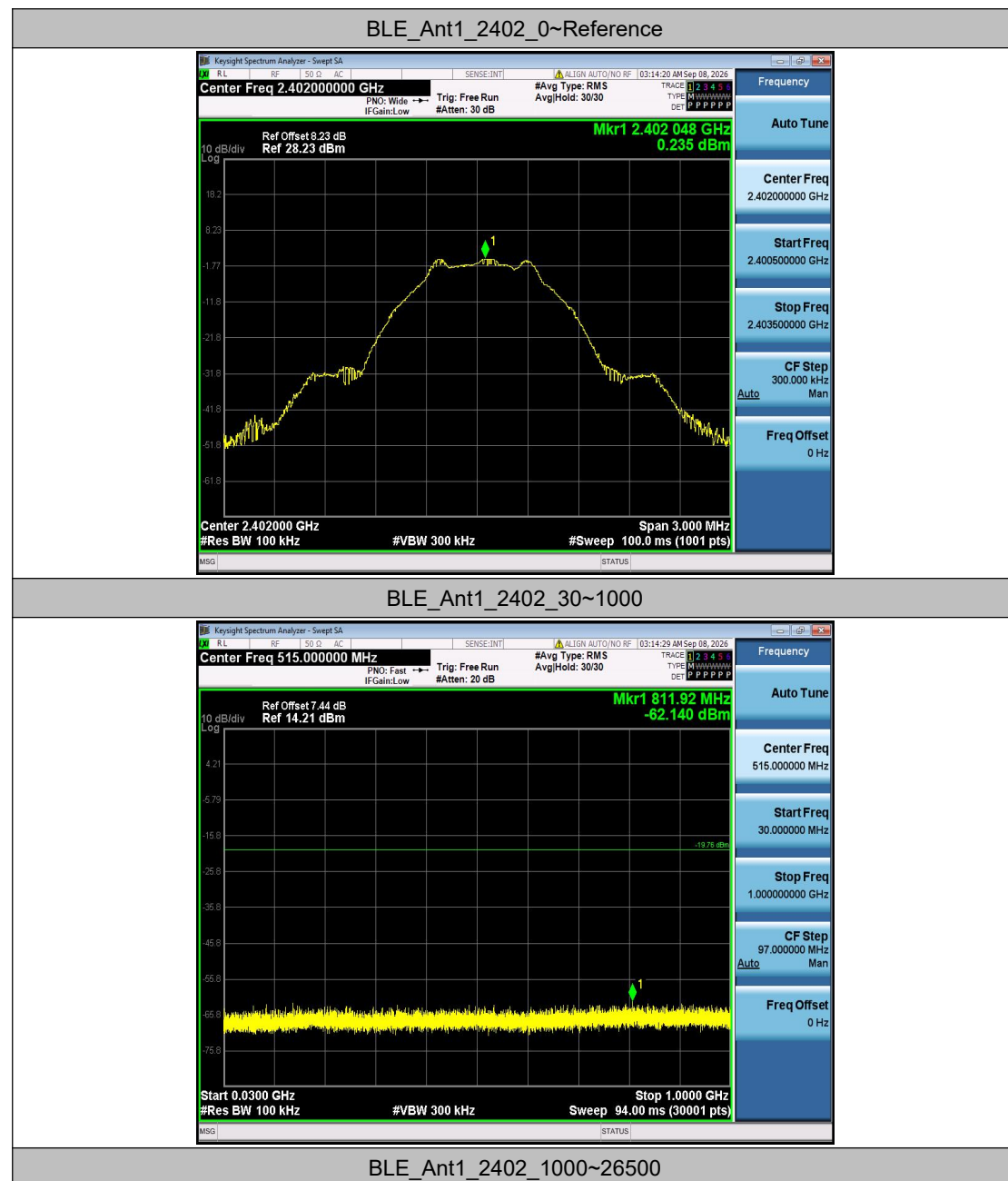
Freq Offset 0 Hz

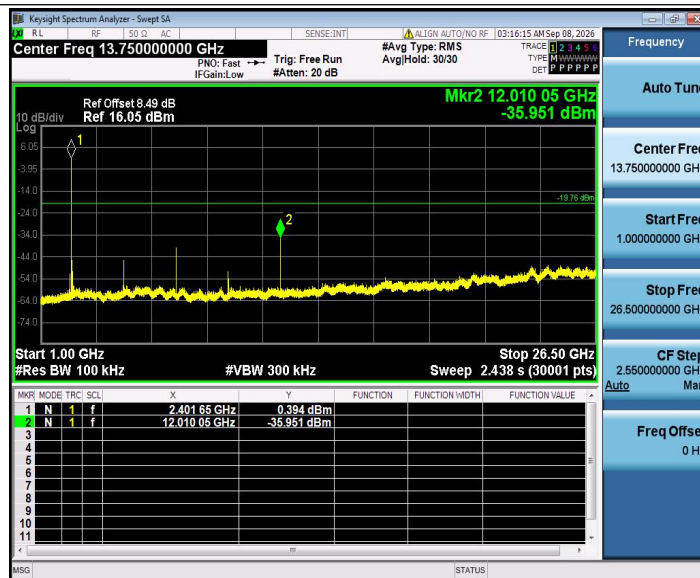
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	0.24	0.24	---	PASS
			30~1000	0.24	-62.14	≤-19.76	PASS
			1000~26500	0.24	-35.95	≤-19.76	PASS
		2440	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-62.17	≤-20.13	PASS
			1000~26500	-0.13	-34.11	≤-20.13	PASS
		2480	Reference	0.29	0.29	---	PASS
			30~1000	0.29	-61.62	≤-19.71	PASS
			1000~26500	0.29	-33.22	≤-19.71	PASS

Test Graphs

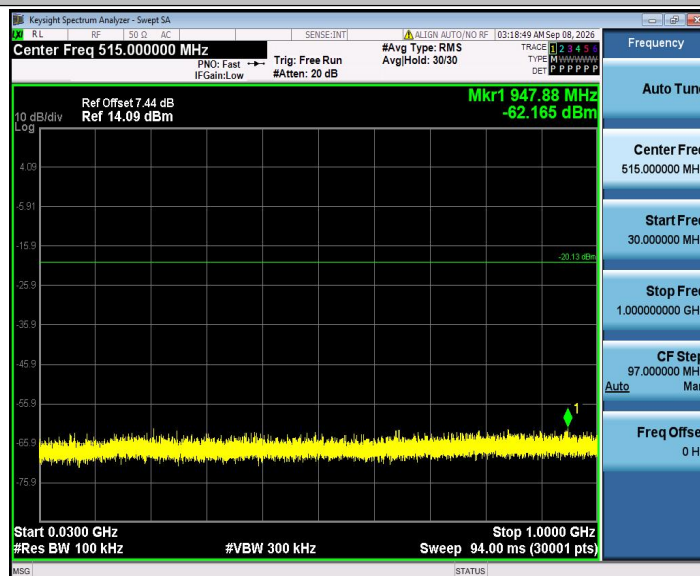


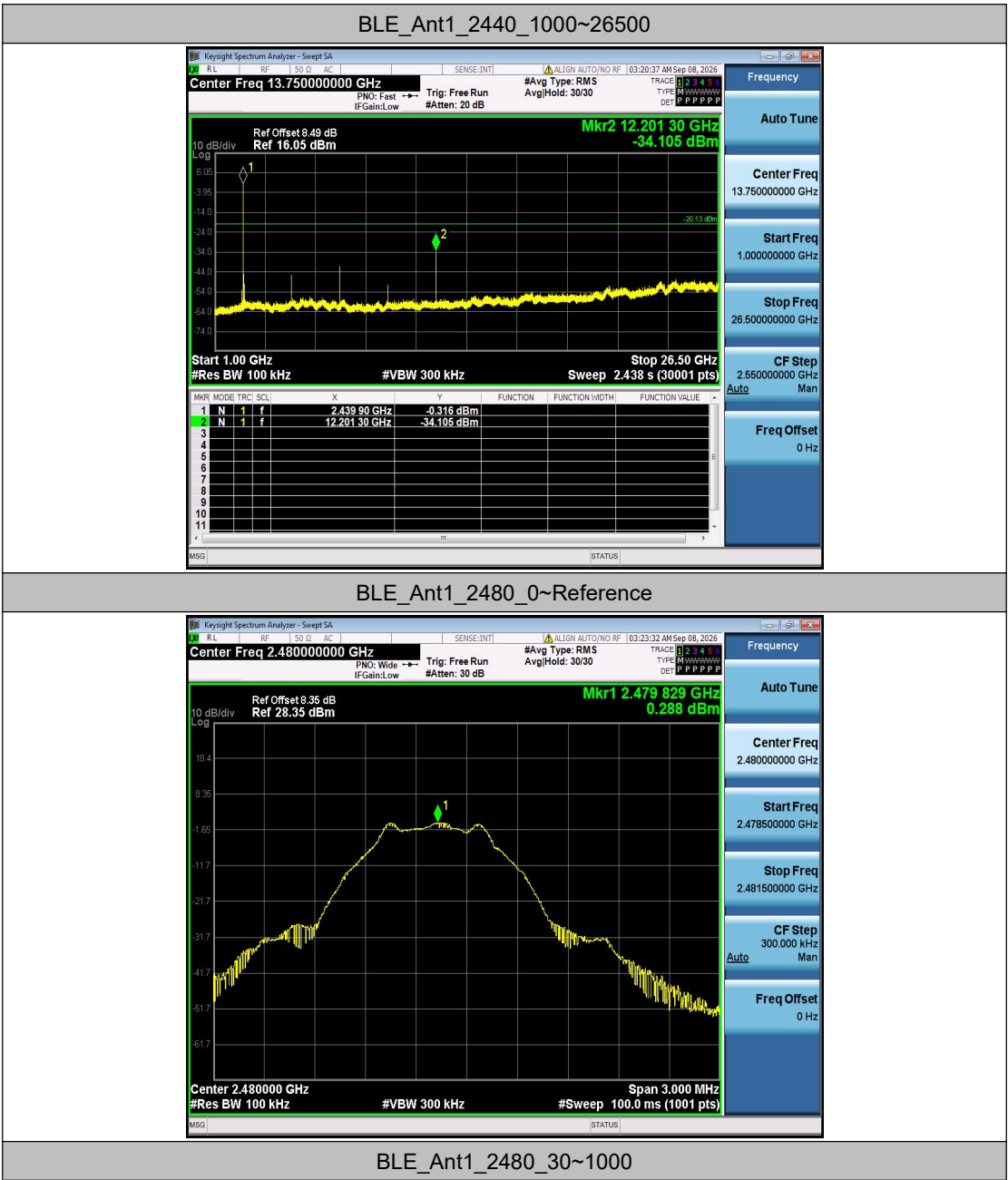


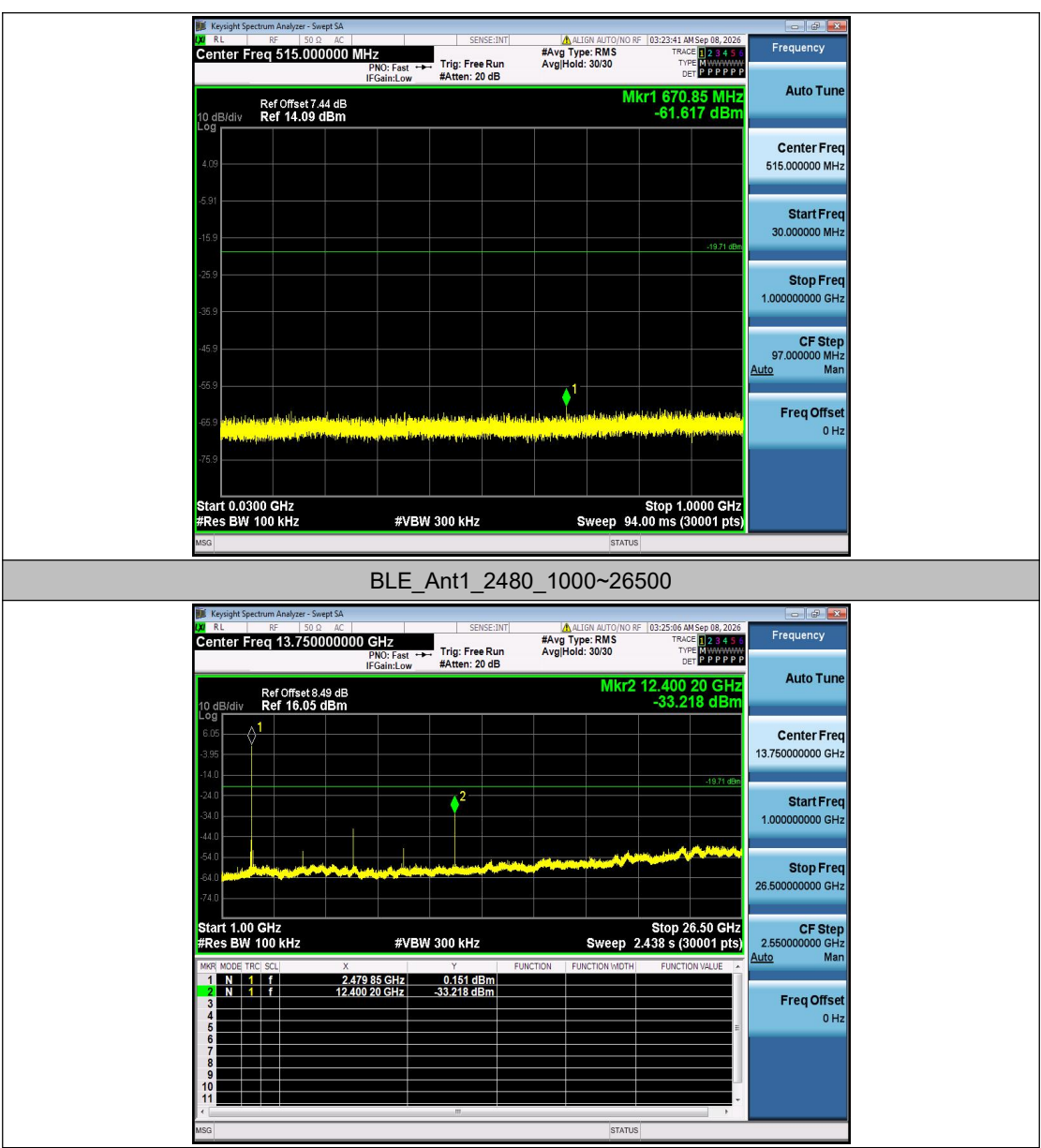
BLE_Ant1_2440_0~Reference



BLE_Ant1_2440_30~1000





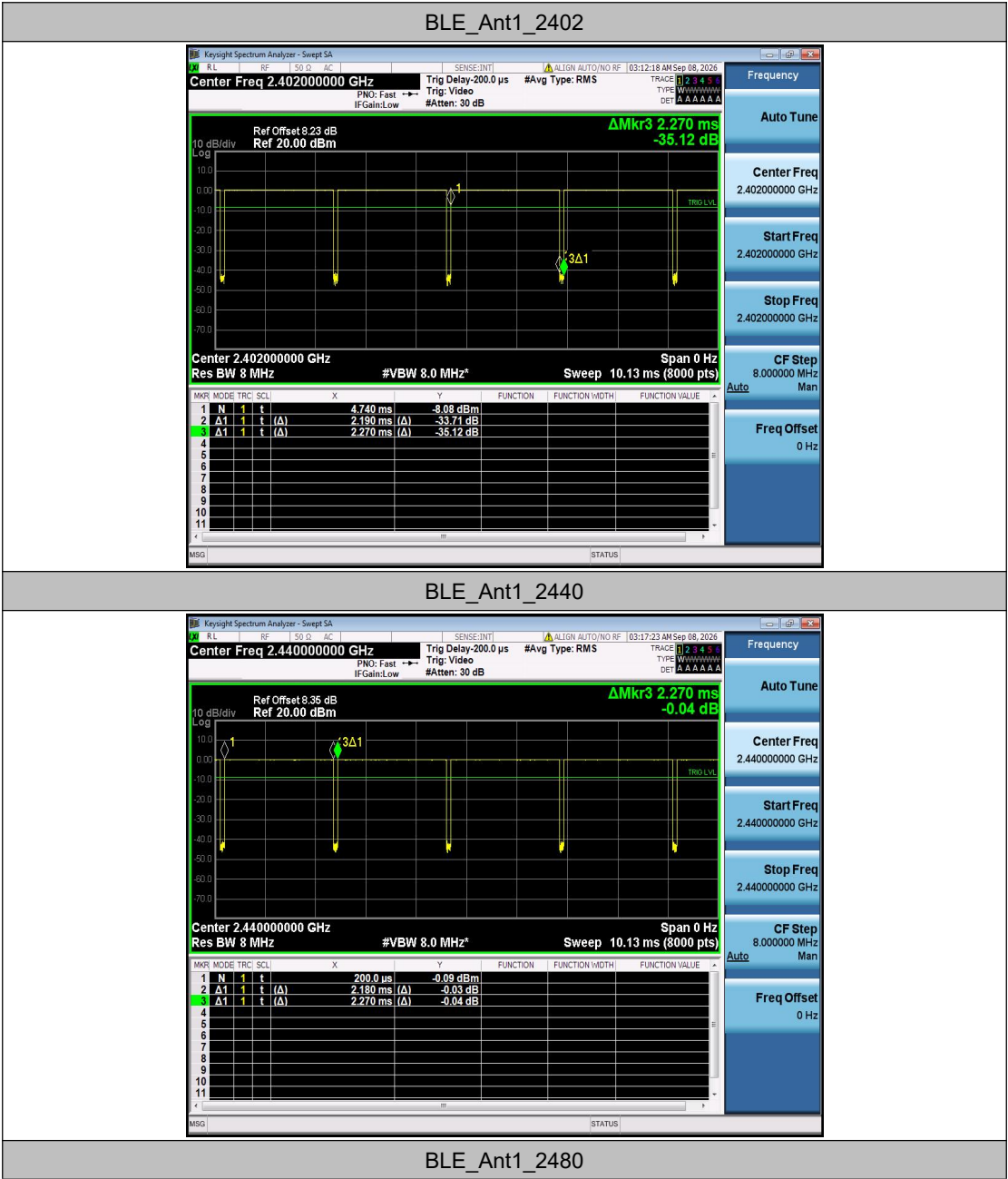


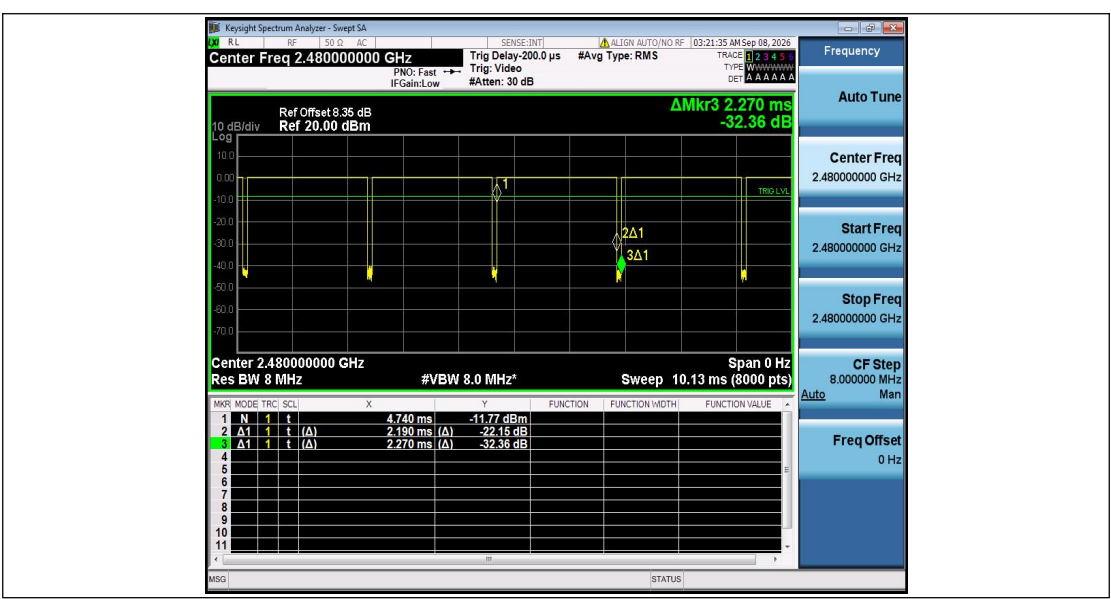
Appendix A.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE	Ant1	2402	2.19	2.27	0.9648	96.48	0.16	0.46
		2440	2.18	2.27	0.9604	96.04	0.18	0.46
		2480	2.19	2.27	0.9648	96.48	0.16	0.46

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	-49.89	≤-41.20	45.31	≤54	PASS
				AV	2338.115	-47.13	≤-41.20	48.07	≤54	PASS
				AV	2390.000	-49.53	≤-41.20	45.67	≤54	PASS
				Peak	2310.000	-40.96	≤-21.20	54.24	≤74	PASS
				Peak	2337.275	-39.6	≤-21.20	55.60	≤74	PASS
				Peak	2390.000	-40.85	≤-21.20	54.35	≤74	PASS
		High	2480	AV	2483.500	-48.63	≤-41.20	46.57	≤54	PASS
				AV	2495.680	-48.55	≤-41.20	46.65	≤54	PASS
				AV	2500.000	-48.76	≤-41.20	46.44	≤54	PASS
				Peak	2483.500	-42.98	≤-21.20	52.22	≤74	PASS
				Peak	2485.680	-38.41	≤-21.20	56.79	≤74	PASS
				Peak	2500.000	-41.4	≤-21.20	53.80	≤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

