

Case No. : <u>GTS20260728001-3-01</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>

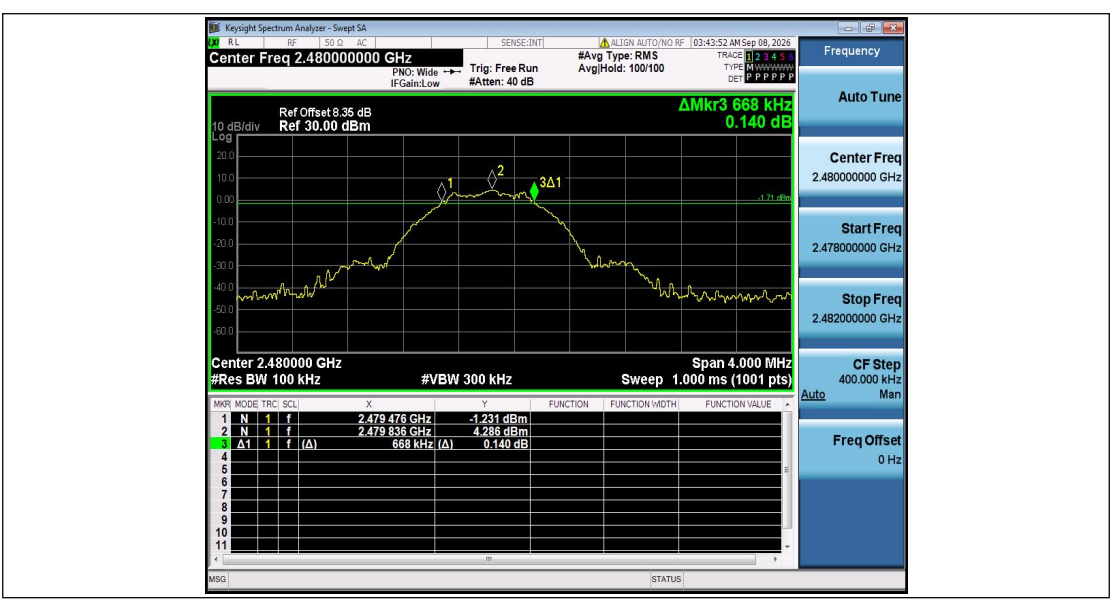
Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.680	2401.708	2402.388	0.5	PASS
		2440	0.684	2439.600	2440.284	0.5	PASS
		2480	0.668	2479.476	2480.144	0.5	PASS

Test Graphs



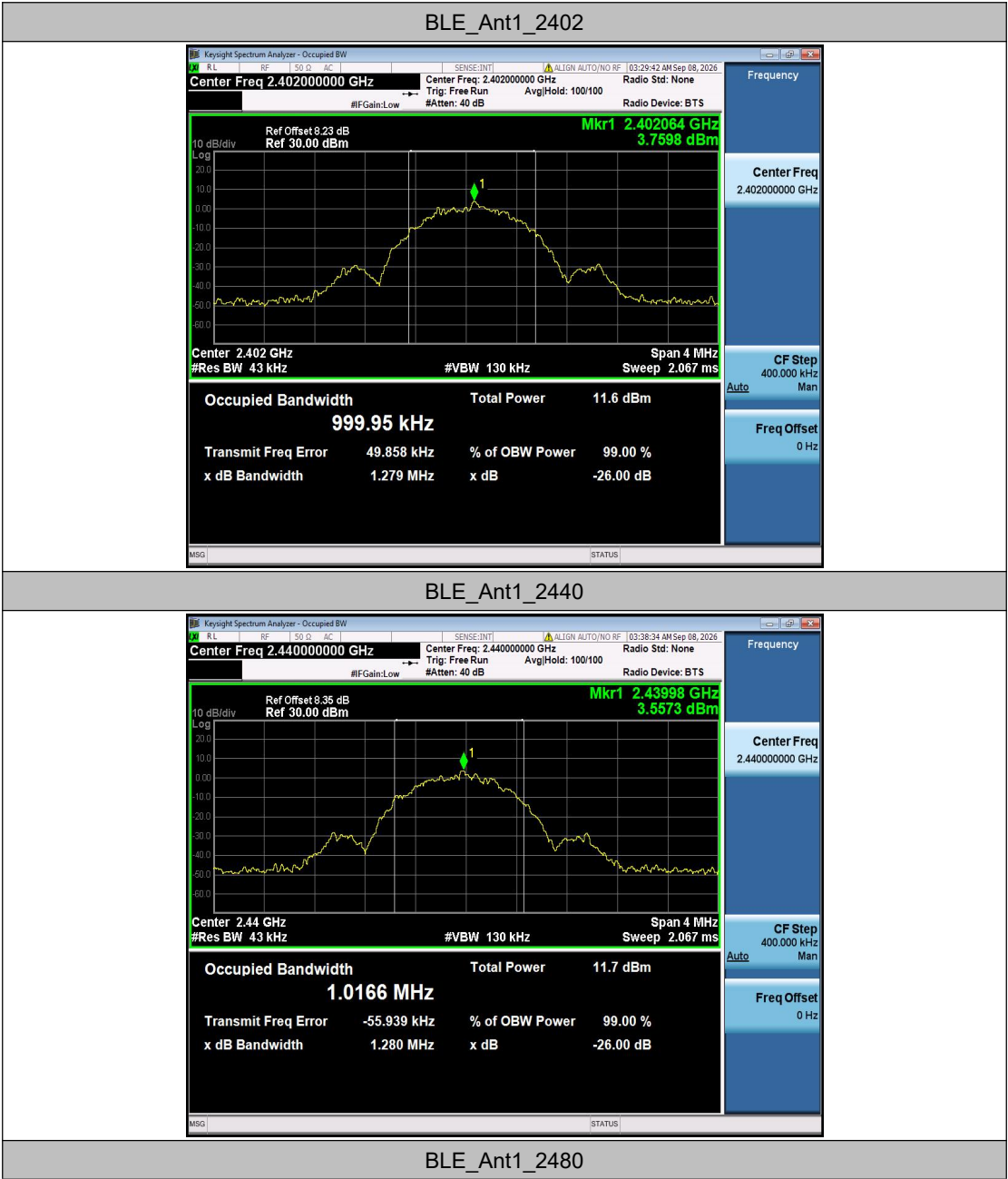


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.99995	2401.5499	2402.5498	---	---
		2440	1.0166	2439.4358	2440.4524	---	---
		2480	1.0230	2479.3000	2480.3230	---	---

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	4.08	≤30	PASS
		2440	4.36	≤30	PASS
		2480	4.57	≤30	PASS

Appendix A.4: Maximum power spectral density

Test Result

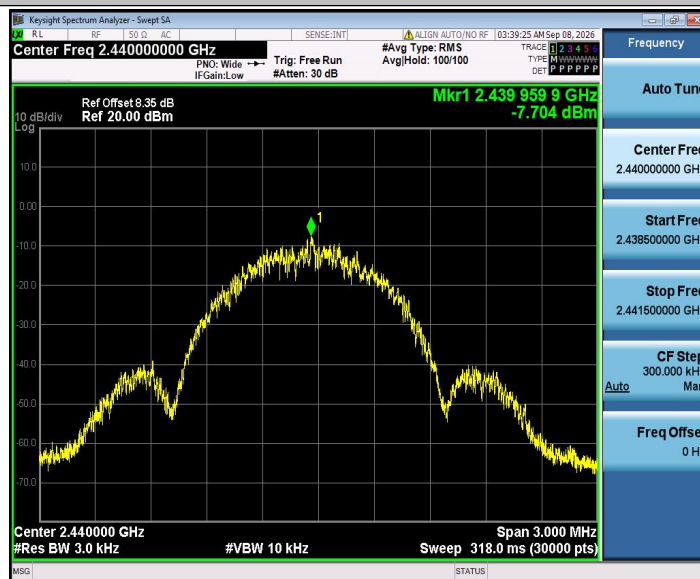
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-7.67	≤8.00	PASS
		2440	-7.70	≤8.00	PASS
		2480	-7.73	≤8.00	PASS

Test Graphs

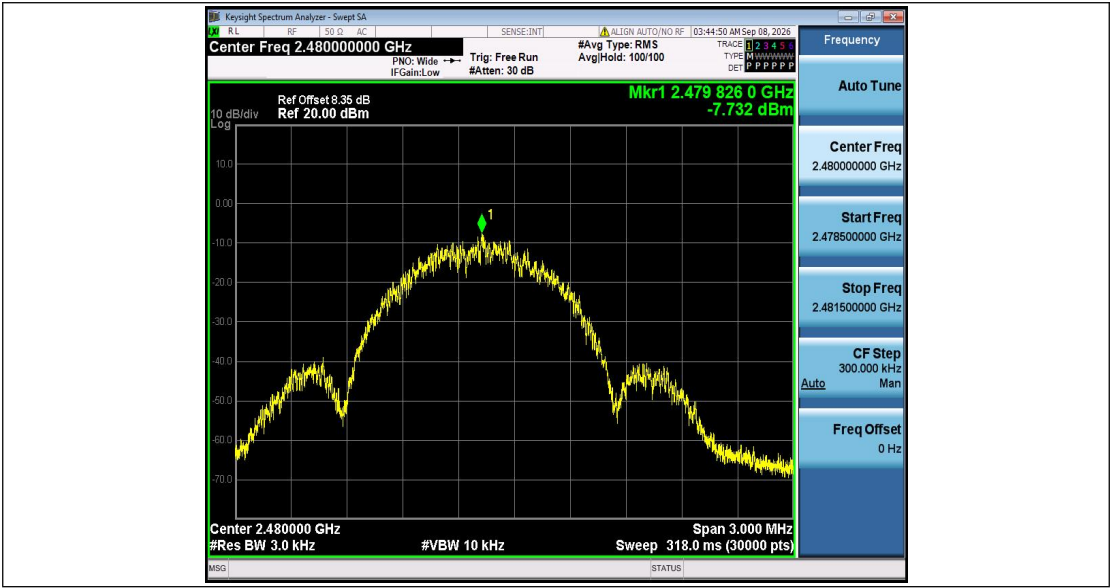
BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480

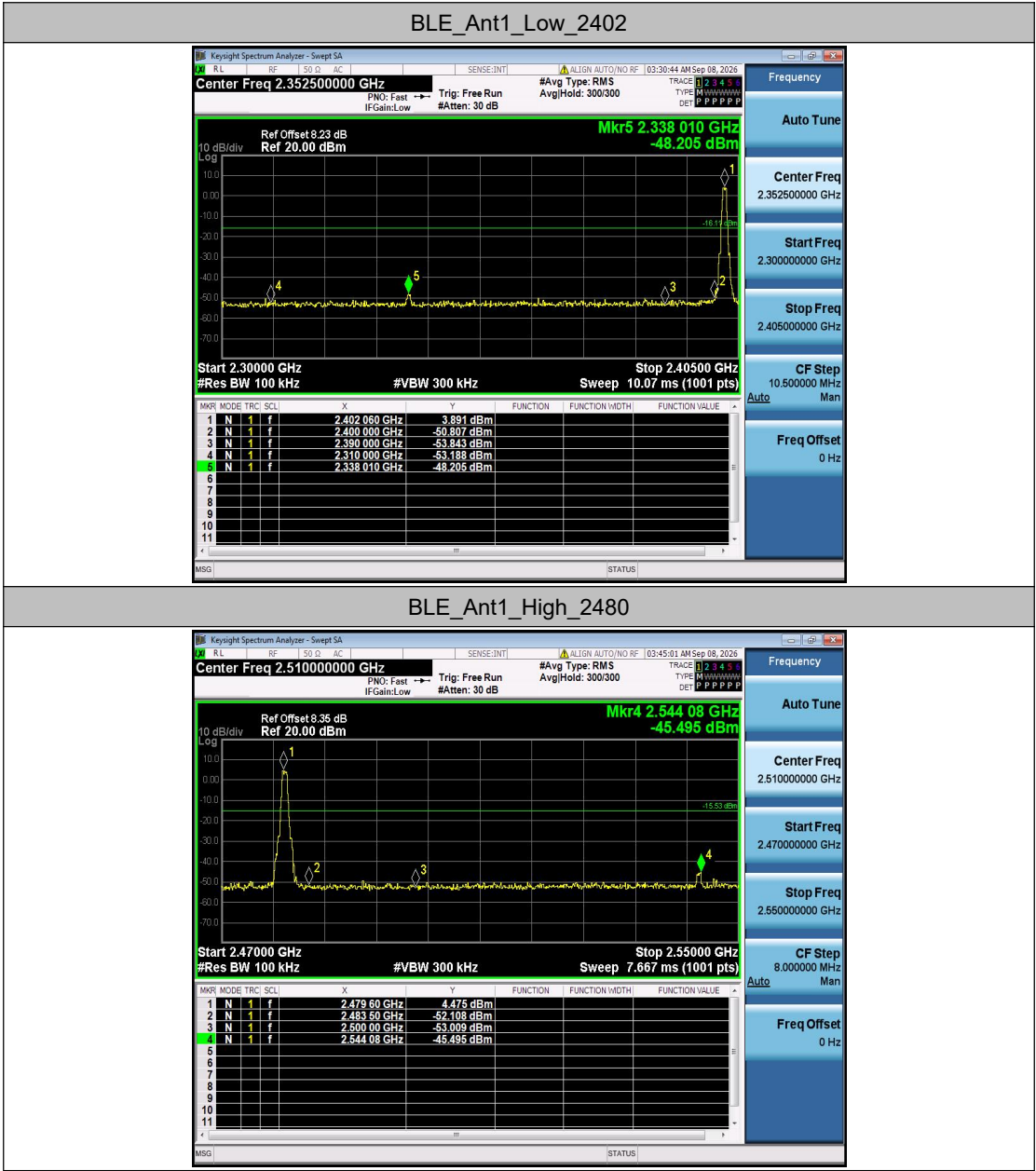


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	3.89	-48.21	≤-16.11	PASS
		High	2480	4.48	-45.5	≤-15.53	PASS

Test Graphs

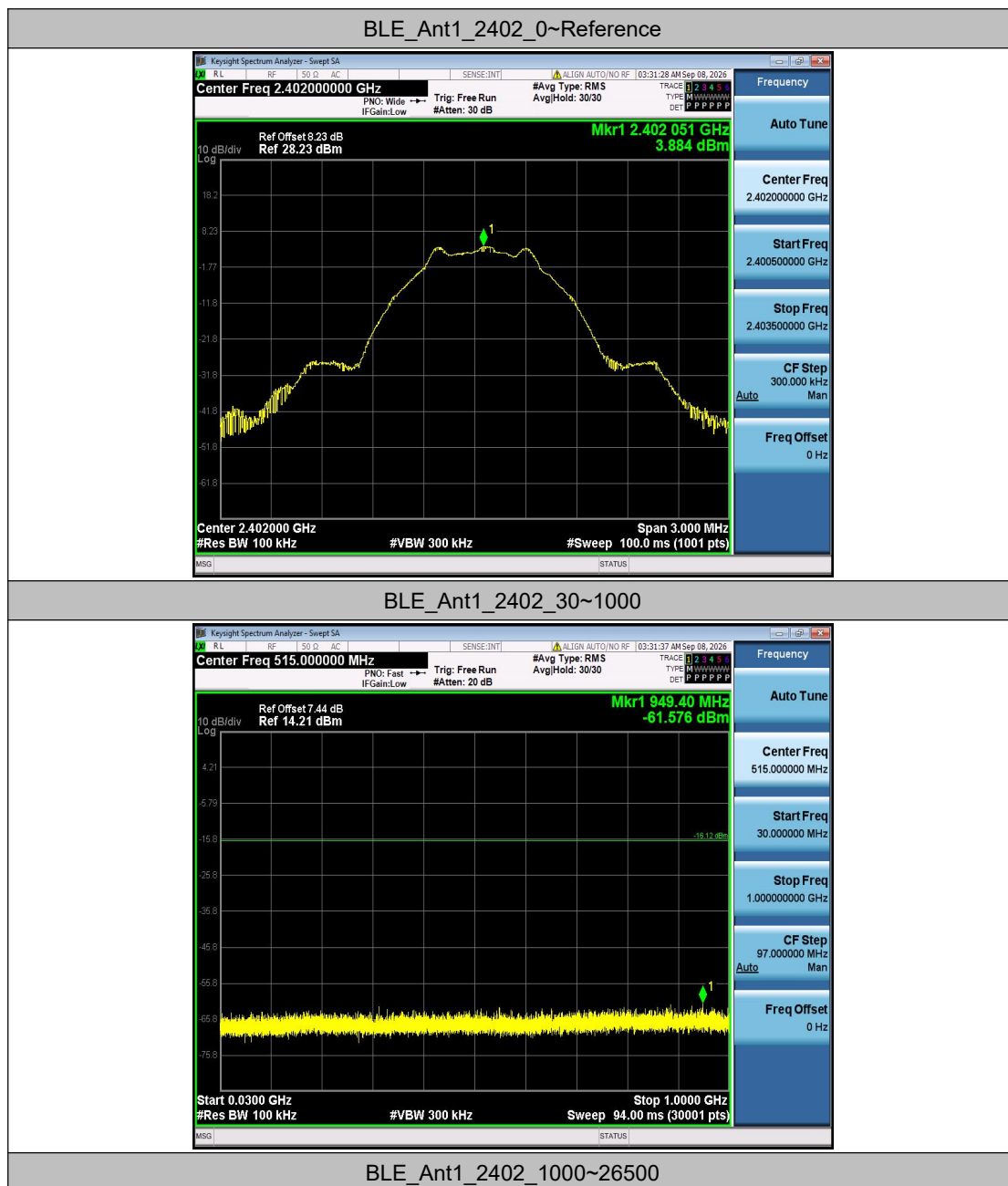


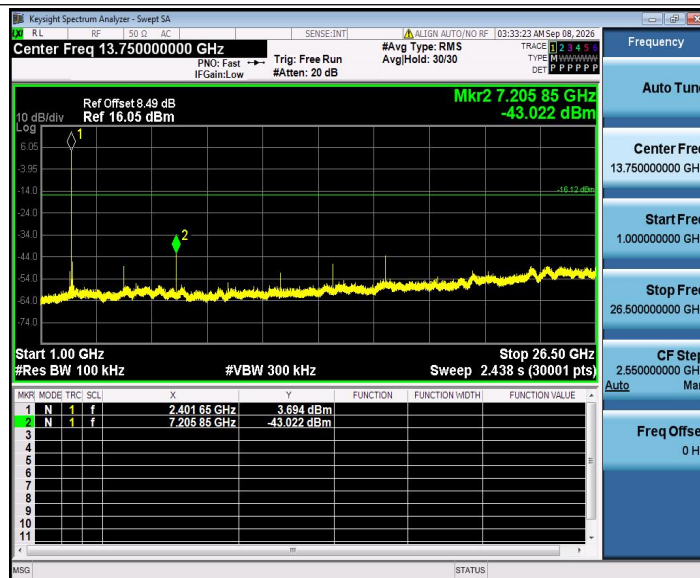
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	3.88	3.88	---	PASS
			30~1000	3.88	-61.58	≤ -16.12	PASS
			1000~26500	3.88	-43.02	≤ -16.12	PASS
		2440	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-61.35	≤ -15.83	PASS
			1000~26500	4.17	-43.95	≤ -15.83	PASS
		2480	Reference	4.31	4.31	---	PASS
			30~1000	4.31	-61.68	≤ -15.69	PASS
			1000~26500	4.31	-43.27	≤ -15.69	PASS

Test Graphs

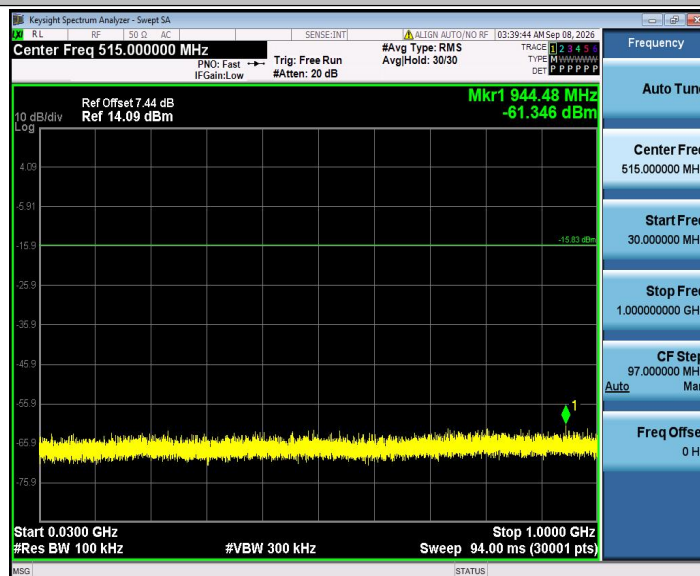


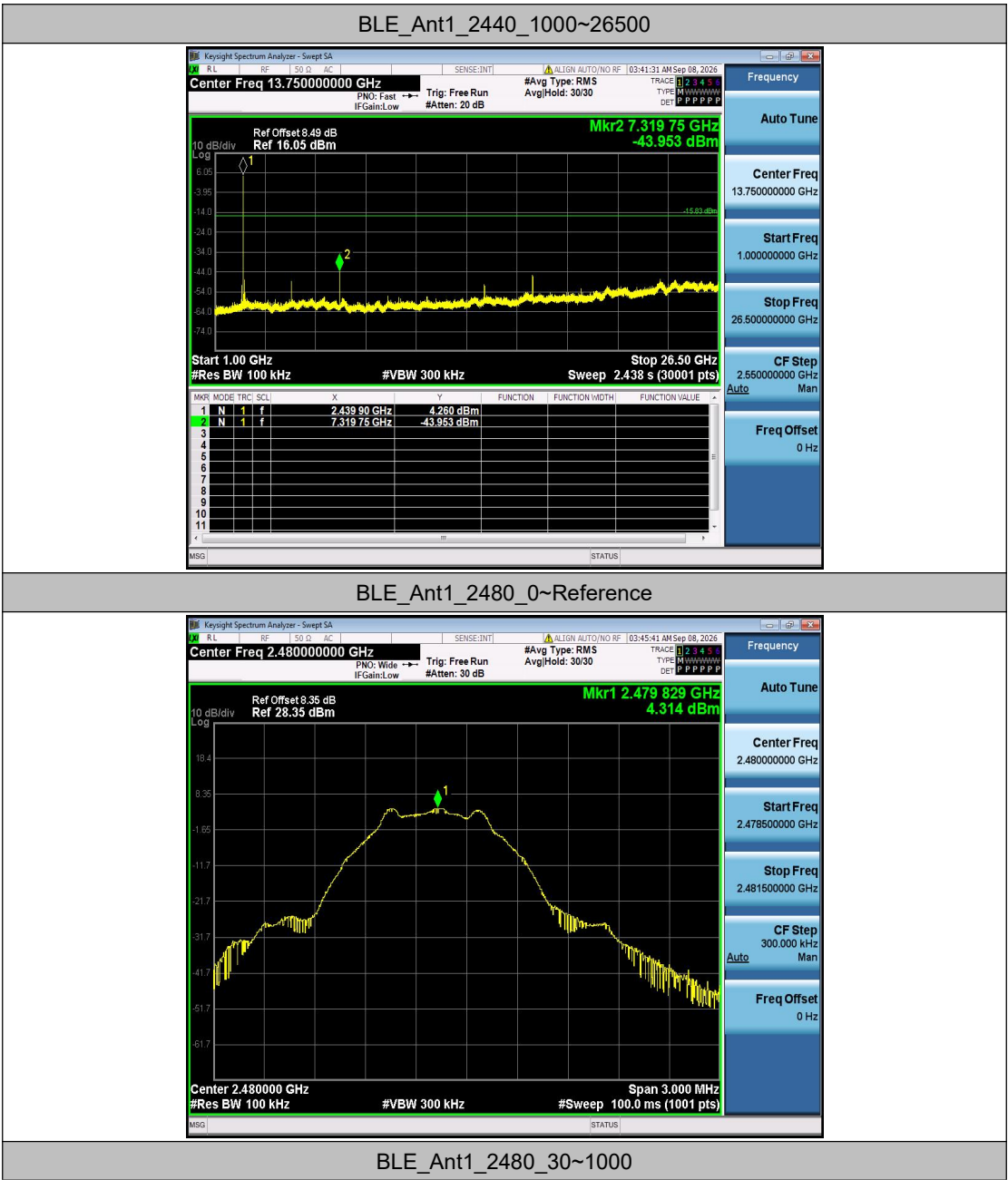


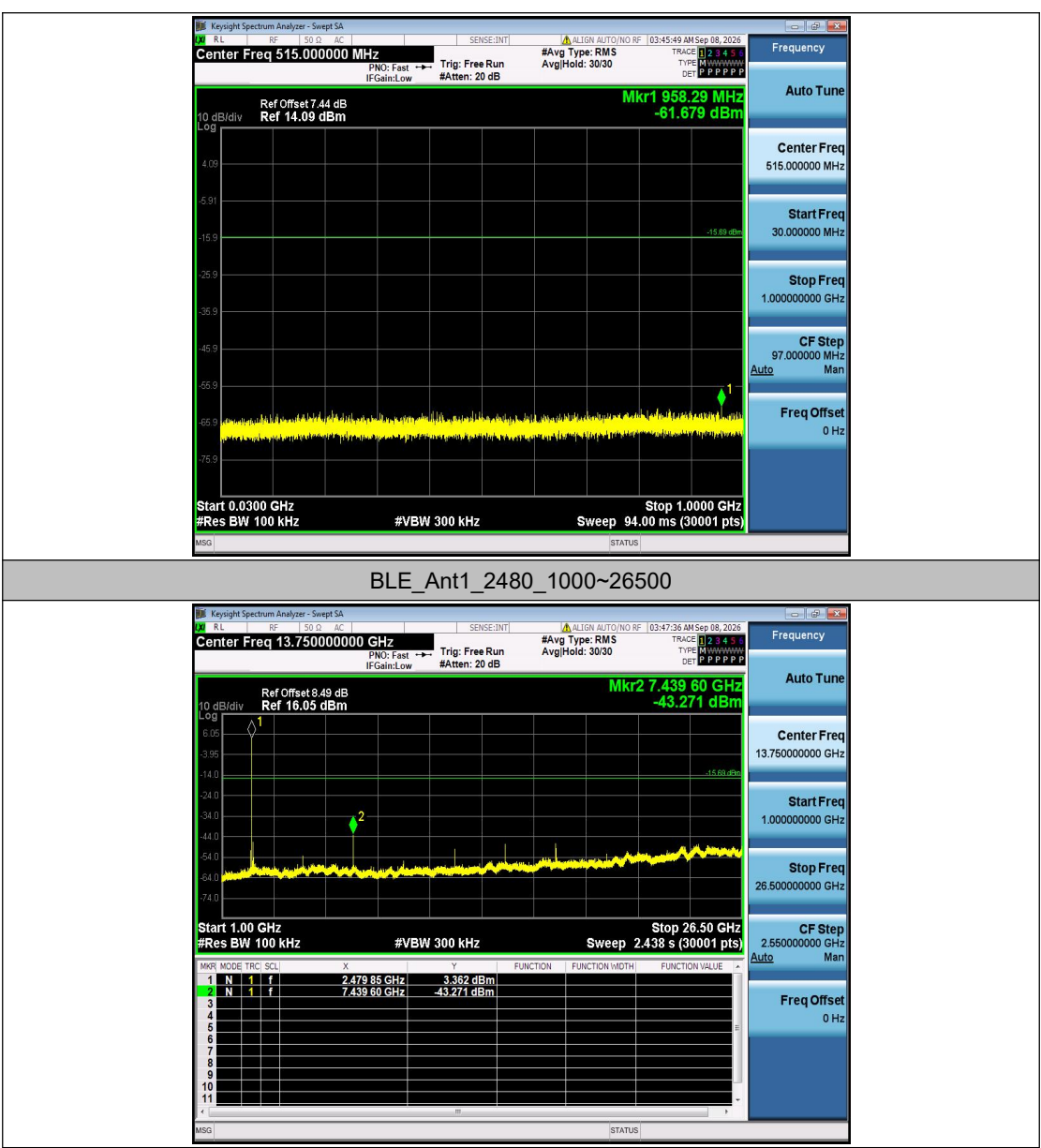
BLE_Ant1_2440_0~Reference



BLE_Ant1_2440_30~1000





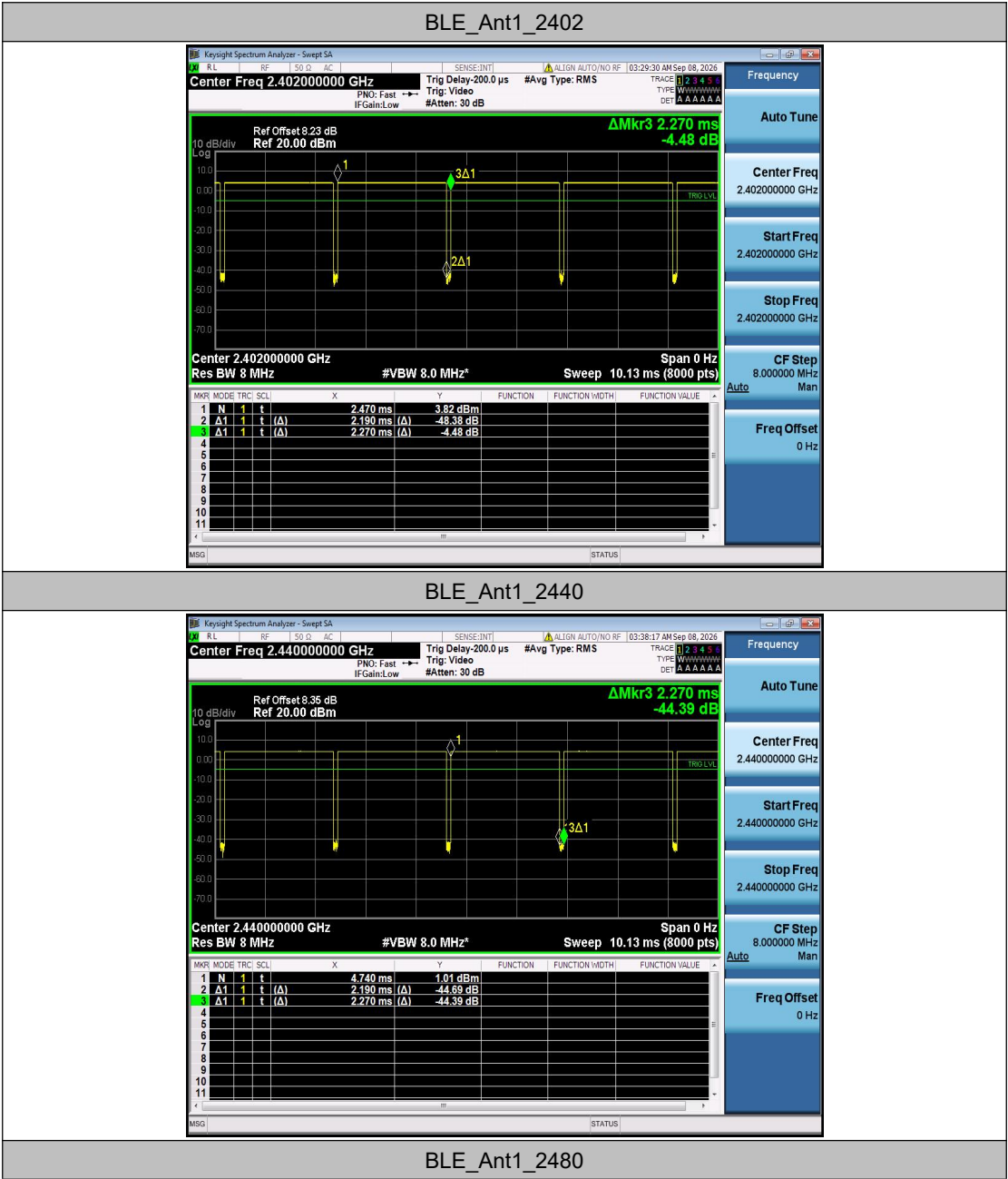


Appendix A.7: Duty Cycle

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	2.19	2.27	0.9648	96.48	0.16	0.46
		2480	2.18	2.27	0.9604	96.04	0.18	0.46

Test Graphs



BLE_Ant1_2440

Keysight Spectrum Analyzer - Sweep SA

RF: 150.0 AC

SENSE:INT

ALIGN AUTO/NO RF

03:38:17 AM Sep 08, 2026

Center Freq 2.440000000 GHz

Trig Delay: 200.0 μ s

#Avg Type: RMS

TRIG: Video

TYPE: WWWW

DET: AAAAAA

Ref Offset 8.35 dB

Ref 20.00 dBm

Δ Mkr3 2.270 ms

-44.39 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	4.740 ms	1.01 dBm			
2	Δ 1	1	t (A)	2.190 ms (A)	-44.69 dB			
3	Δ 1	1	t (A)	2.270 ms (A)	-44.39 dB			

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.440000000 GHz

Start Freq 2.440000000 GHz

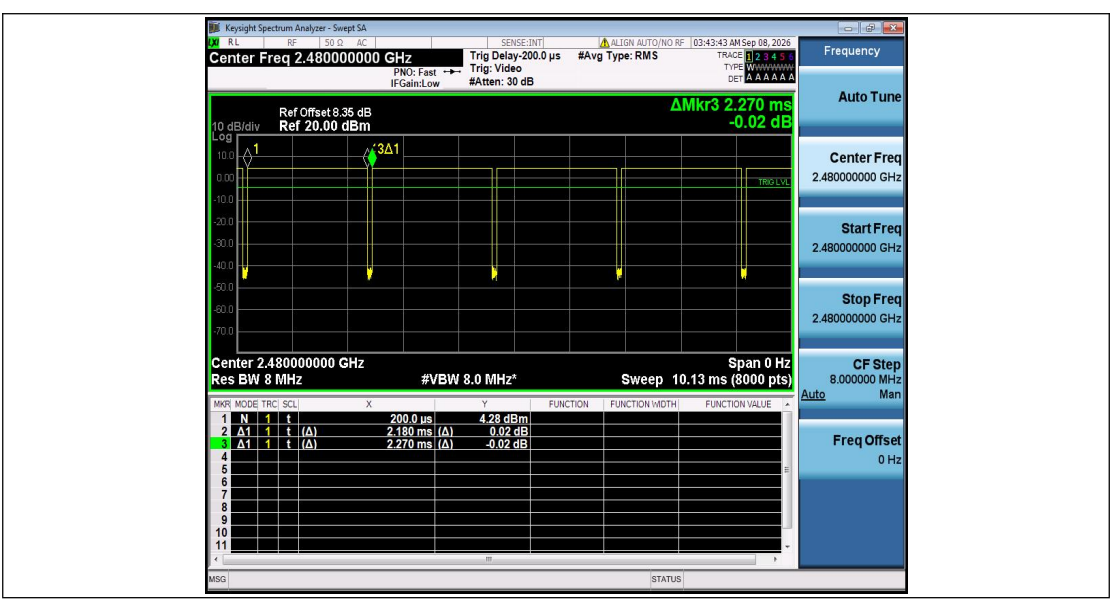
Stop Freq 2.440000000 GHz

CF Step 8.000000 MHz

Auto Man

Freq Offset 0 Hz

BLE_Ant1_2480



Appendix A.8: Emissions in Restricted Bands

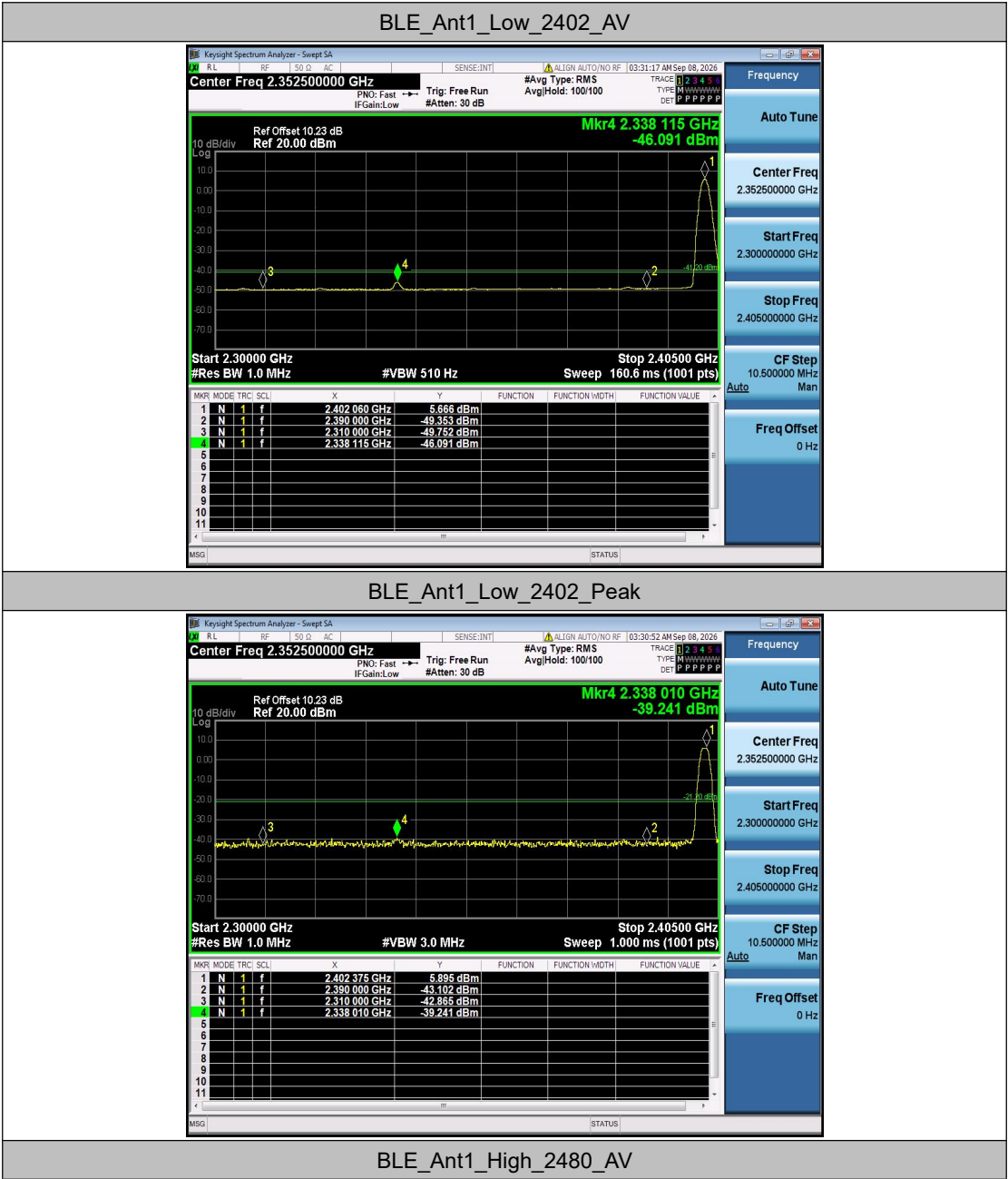
Test Result

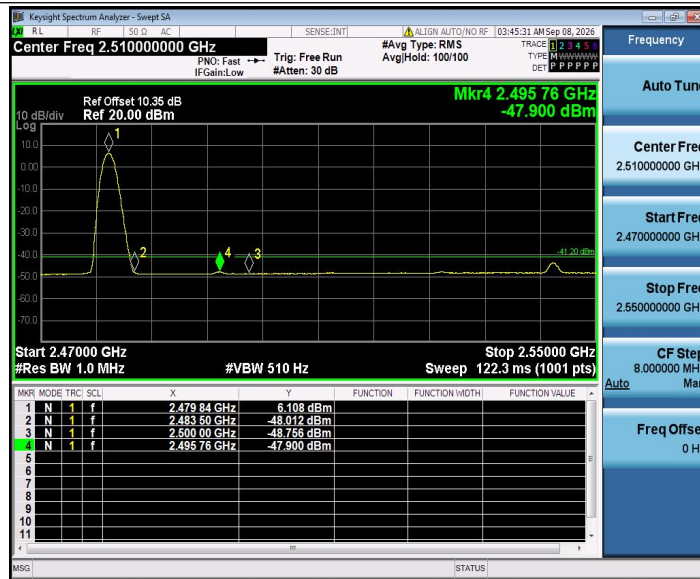
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.75	≤-41.20	45.45	≤54	PASS
				AV	2338.115	-46.09	≤-41.20	49.11	≤54	PASS
				AV	2390.000	-49.35	≤-41.20	45.85	≤54	PASS
				Peak	2310.000	-42.87	≤-21.20	52.33	≤74	PASS
				Peak	2338.010	-39.24	≤-21.20	55.96	≤74	PASS
				Peak	2390.000	-43.1	≤-21.20	52.10	≤74	PASS
		High	2480	AV	2483.500	-48.01	≤-41.20	47.19	≤54	PASS
				AV	2495.760	-47.9	≤-41.20	47.30	≤54	PASS
				AV	2500.000	-48.76	≤-41.20	46.44	≤54	PASS
				Peak	2483.500	-41.13	≤-21.20	54.07	≤74	PASS
				Peak	2492.480	-39.61	≤-21.20	55.59	≤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





BLE_Ant1_High_2480_Peak

