

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.652	2402.328	0.5	PASS
		2440	0.664	2439.660	2440.324	0.5	PASS
		2480	0.680	2479.648	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.176	2401.400	2402.576	0.5	PASS
		2440	1.172	2439.404	2440.576	0.5	PASS
		2480	1.176	2479.400	2480.576	0.5	PASS

BLE_1M_Ant1_2402

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input RF Input Z: 50 Ω #Atten: 40 dB PNO: Best Wide Gate: Off #Avg Type: Power (RMS) 1 2 3 4 5 6
Coupling: DC Corrections: Off Freq Ref: Int (S) IF Gain: Low Trng: Free Run M M M M M M M M
Align: Auto/No RF Sig Track: Off P P P P P P P P

Center Frequency: 2.402000000 GHz
Span: 4.00000000 MHz
Start Freq: 2.400000000 GHz
Stop Freq: 2.404000000 GHz
AUTO TUNE

CF Step: 400.000 kHz
Auto Man
Freq Offset: 0 Hz
X Axis Scale: Log Lin
Signal Track: Span Zoom

1 Spectrum Ref Lvl Offset 8.71 dB Δ Mkr3 676 kHz
Scale/Div 10 dB Ref Level 30.00 dBm -0.25 dB
DL1 8.34 dBm

Center 2.402000 GHz #Video BW 300 kHz Span 4.000 MHz
#Res BW 100 kHz Sweep 1.00 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.401652 GHz	0.5915 dBm		
2	N	1	f	2.401984 GHz	6.338 dBm		
3	Δ 1	1	f	(Δ) 676 kHz (Δ) -0.2531 dB			
4							
5							
6							

BLE_1M_Ant1_2440

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input RF Input Z: 50 Ω #Atten: 40 dB PNO: Best Wide Gate: Off #Avg Type: Power (RMS) 1 2 3 4 5 6
Coupling: DC Corrections: Off Freq Ref: Int (S) IF Gain: Low Trng: Free Run M M M M M M M M
Align: Auto/No RF Sig Track: Off P P P P P P P P

Center Frequency: 2.440000000 GHz
Span: 4.00000000 MHz
Start Freq: 2.438000000 GHz
Stop Freq: 2.442000000 GHz
AUTO TUNE

CF Step: 400.000 kHz
Auto Man
Freq Offset: 0 Hz
X Axis Scale: Log Lin
Signal Track: Span Zoom

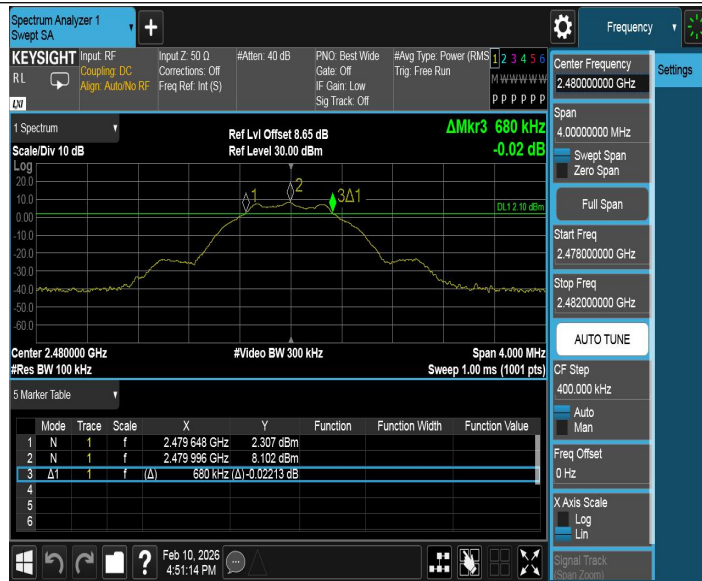
1 Spectrum Ref Lvl Offset 8.65 dB Δ Mkr3 664 kHz
Scale/Div 10 dB Ref Level 30.00 dBm -0.21 dB
DL1 1.41 dBm

Center 2.440000 GHz #Video BW 300 kHz Span 4.000 MHz
#Res BW 100 kHz Sweep 1.00 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.439660 GHz	1.732 dBm		
2	N	1	f	2.439984 GHz	7.405 dBm		
3	Δ 1	1	f	(Δ) 664 kHz (Δ) -0.2105 dB			
4							
5							
6							

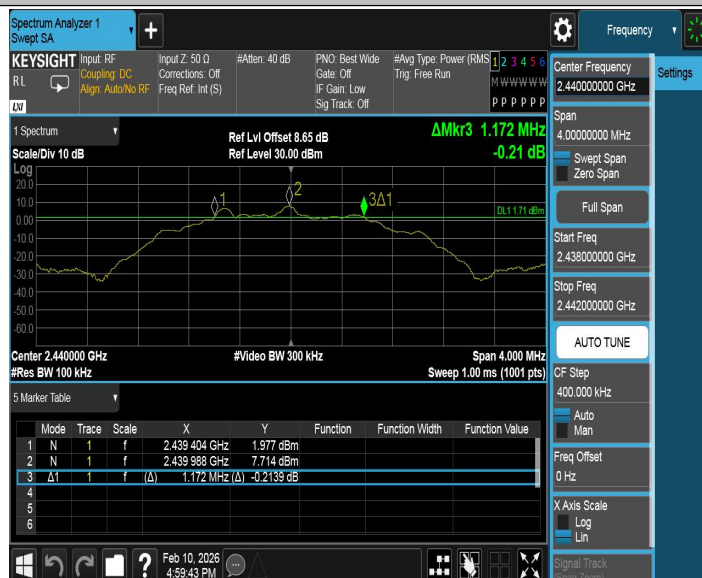
BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0354	2401.4839	2402.5193	---	---
		2440	1.0315	2439.4846	2440.5161	---	---
		2480	1.0321	2479.4834	2480.5155	---	---
BLE_2M	Ant1	2402	2.0590	2400.9804	2403.0394	---	---
		2440	2.0555	2438.9839	2441.0394	---	---
		2480	2.0565	2478.9830	2481.0395	---	---

Test Graphs



BLE_1M_Ant1_2440

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF
Coupling: DC
Align: Auto No RF

Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)

Atten: 40 dB

Trig: Free Run
Gate: Off
#F Gain: Low

Center Freq: 2.44000000 GHz
Avg/Hold: >100/100
Radio Std: None

Frequency

Center Frequency
2.44000000 GHz

Span
4.0000 MHz

CF Step
400.000 kHz

Auto
Man

Freq Offset
0 Hz

1 Graph

Scale/Div 10.0 dB

Log

Ref Lvl Offset 8.65 dB
Ref Value 30.00 dBm

Mkr1 2.4400 GHz
6.37 dBm

Center 2.44 GHz
#Res BW 43.000 kHz

#Video BW 130.00 kHz

Span 4 MHz

Sweep 2.07 ms (1001 pts)

2 Metrics

Occupied Bandwidth
1.0315 MHz

Total Power
14.4 dBm

Transmit Freq Error
373 Hz

% of OBW Power
99.00 %

x dB Bandwidth
1.260 MHz

x dB
-26.00 dB

Feb 10, 2026
4:49:20 PM

BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.05	≤30	9.05	≤36	PASS
		2440	7.99	≤30	9.99	≤36	PASS
		2480	9.02	≤30	11.02	≤36	PASS
BLE_2M	Ant1	2402	7.44	≤30	9.44	≤36	PASS
		2440	8.50	≤30	10.50	≤36	PASS
		2480	9.11	≤30	11.11	≤36	PASS

Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



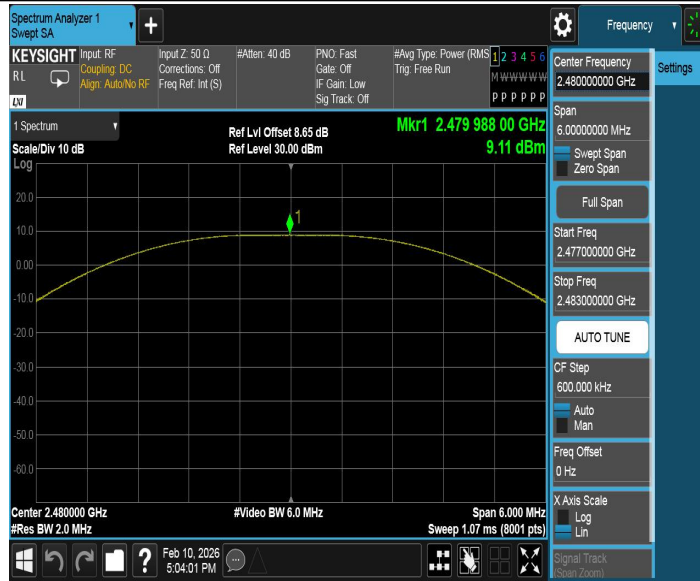
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

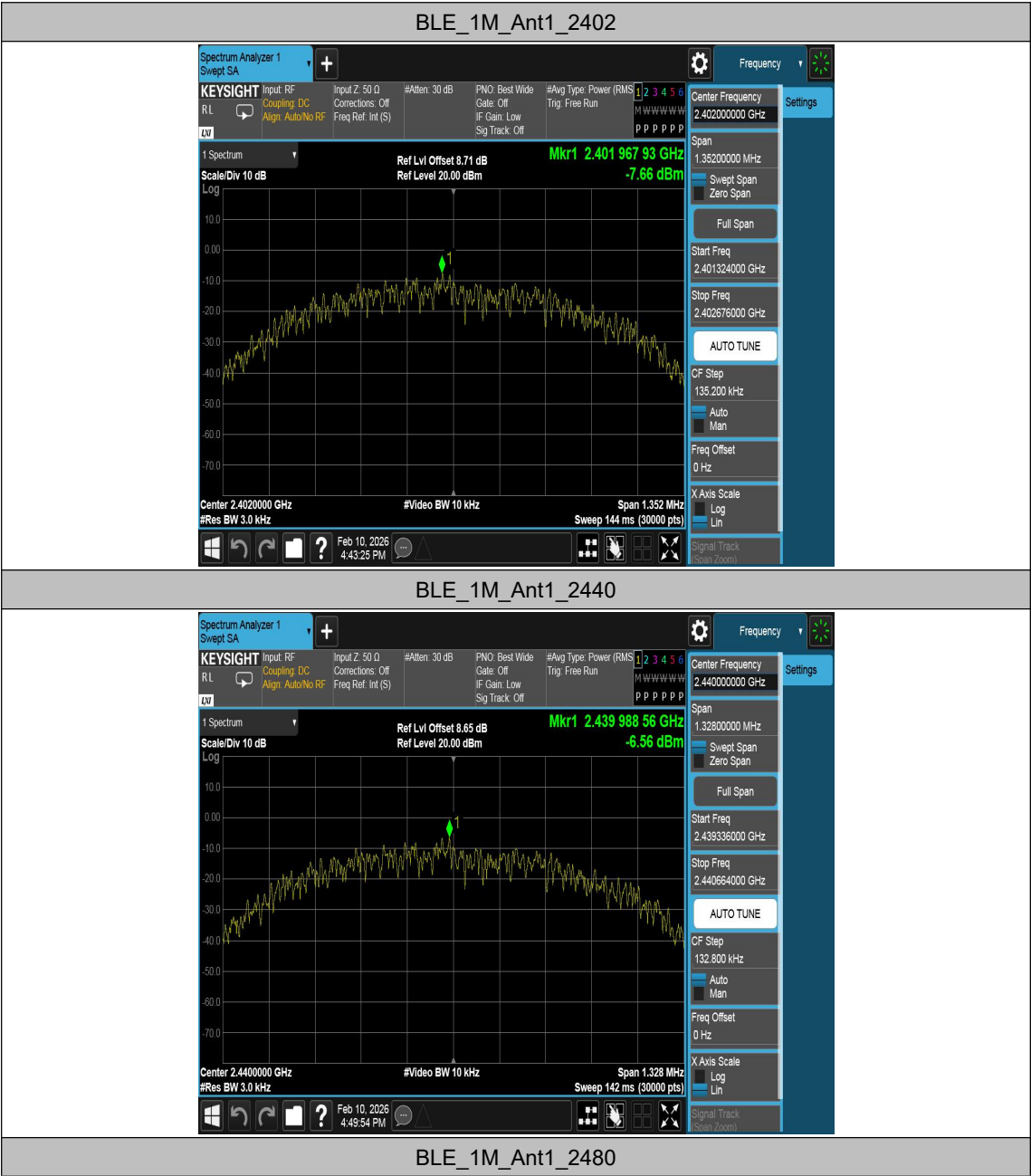


Appendix D: Maximum power spectral density

Test Result

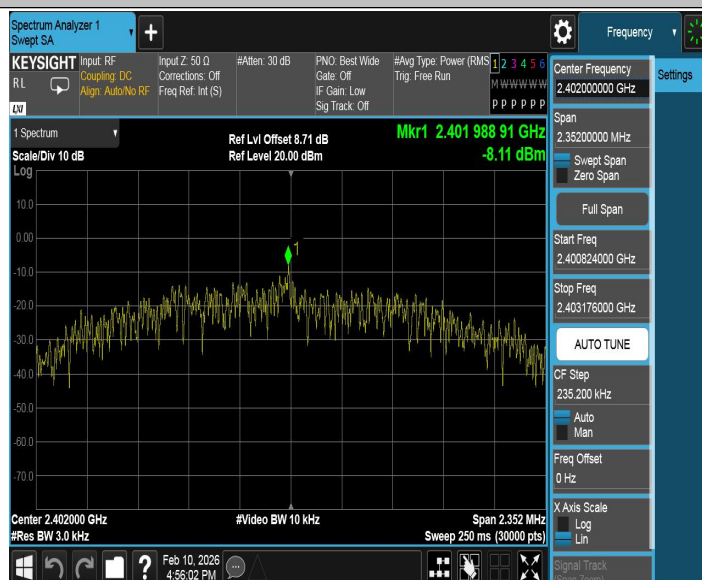
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.66	≤8.00	PASS
		2440	-6.56	≤8.00	PASS
		2480	-5.85	≤8.00	PASS
BLE_2M	Ant1	2402	-8.11	≤8.00	PASS
		2440	-6.88	≤8.00	PASS
		2480	-6.74	≤8.00	PASS

Test Graphs

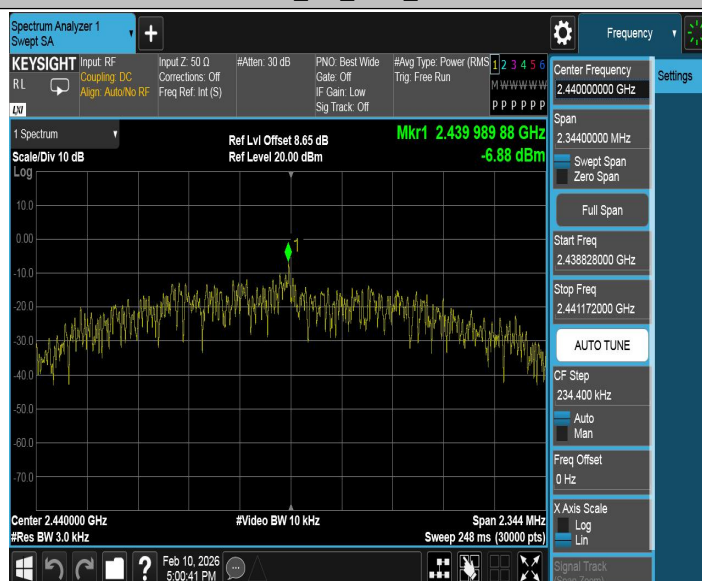




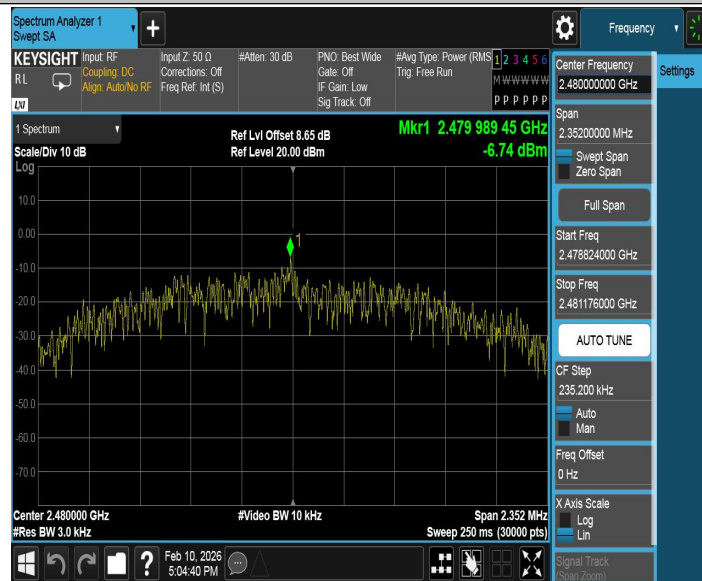
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.73	-40.54	≤-13.27	PASS
		High	2480	8.64	-39.75	≤-11.36	PASS
BLE_2M	Ant1	Low	2402	7.55	-24.99	≤-12.45	PASS
		High	2480	8.81	-38.39	≤-11.19	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480

