

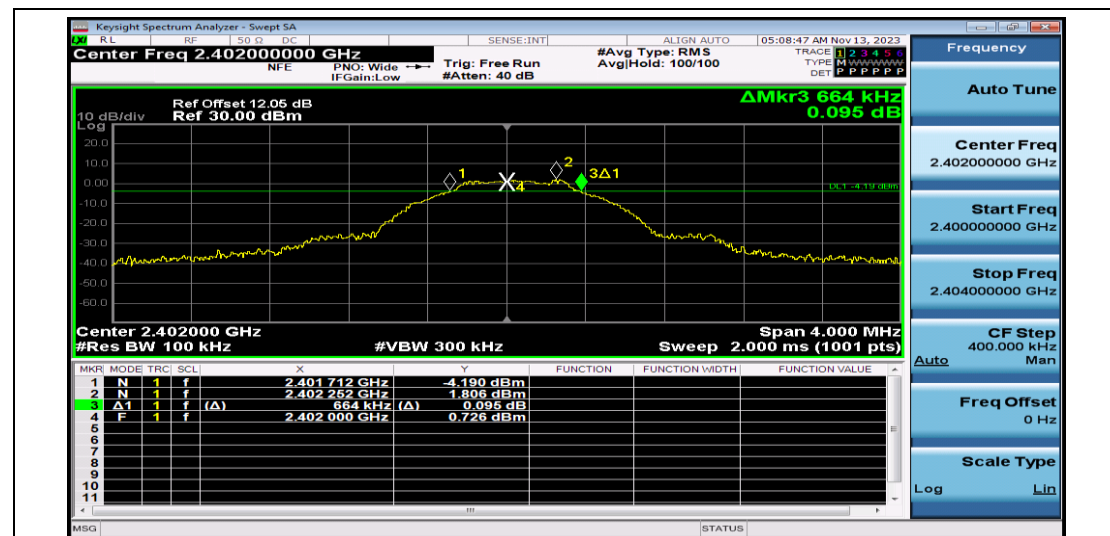
DTS Bandwidth

Test Result

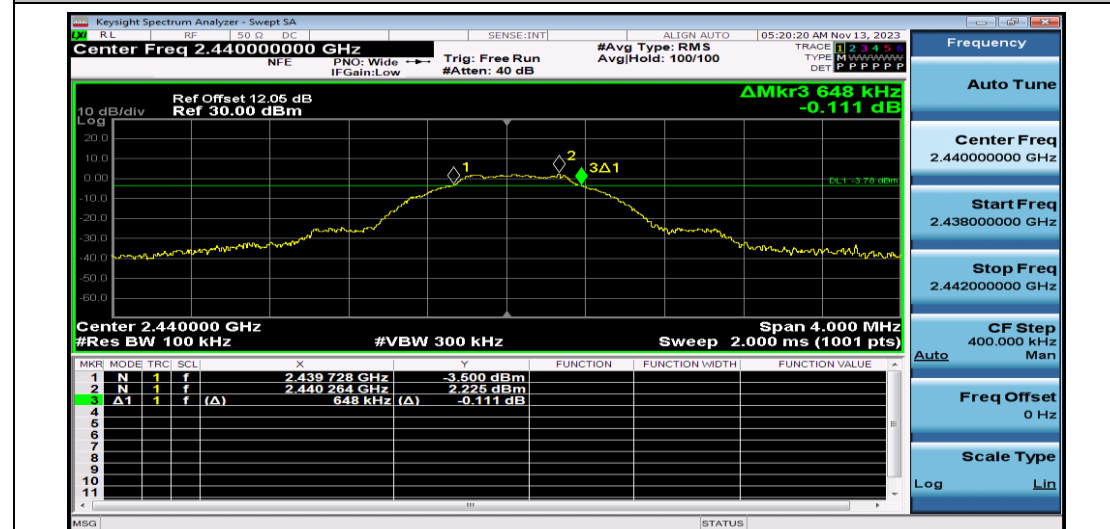
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.712	2402.376	0.5	PASS
BLE_1M	Ant1	2440	0.648	2439.728	2440.376	0.5	PASS
BLE_1M	Ant1	2480	0.640	2479.728	2480.368	0.5	PASS

Appendix A_2409B1499SHA-001

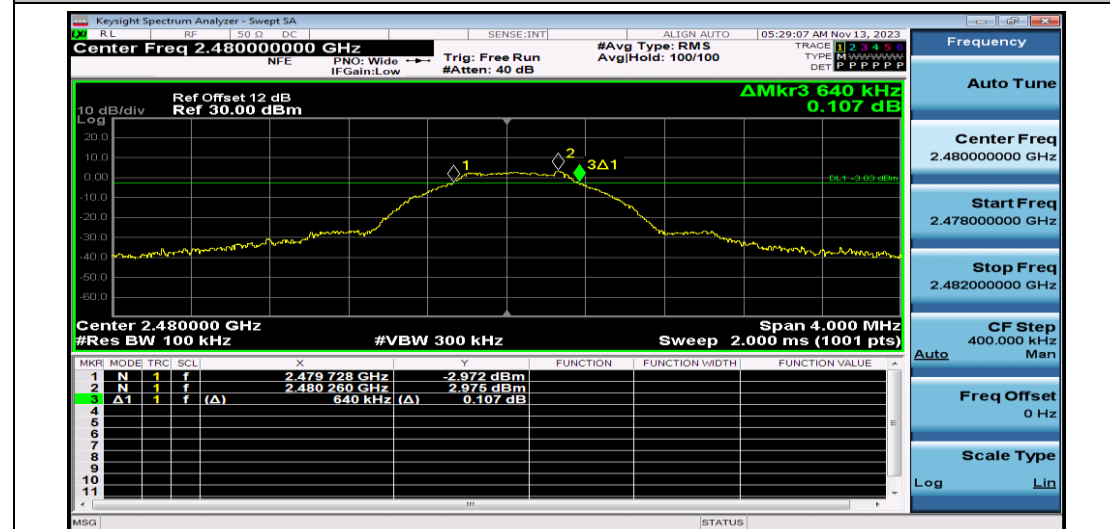
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

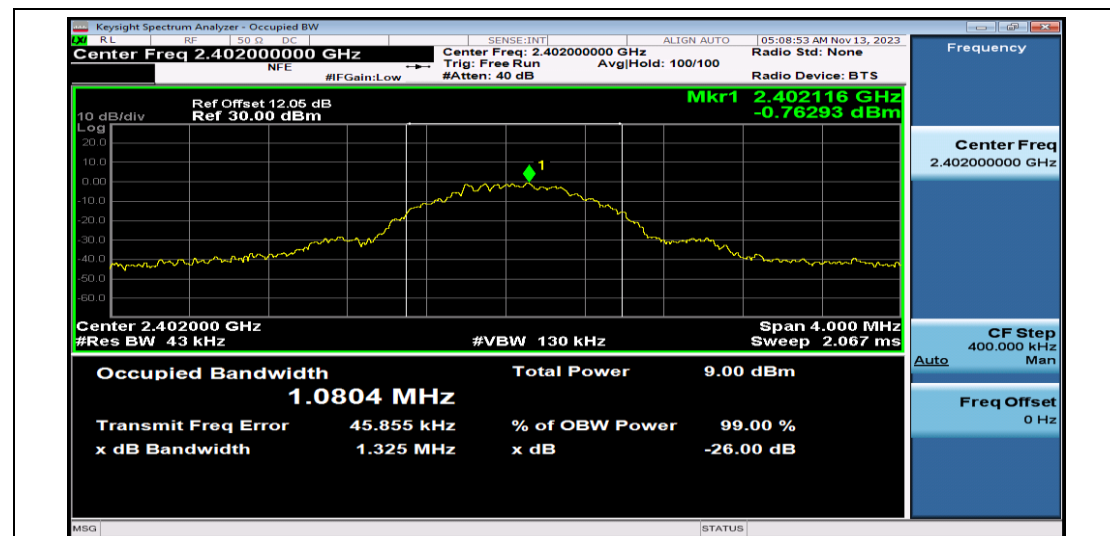
Occupied Channel Bandwidth

Test Result

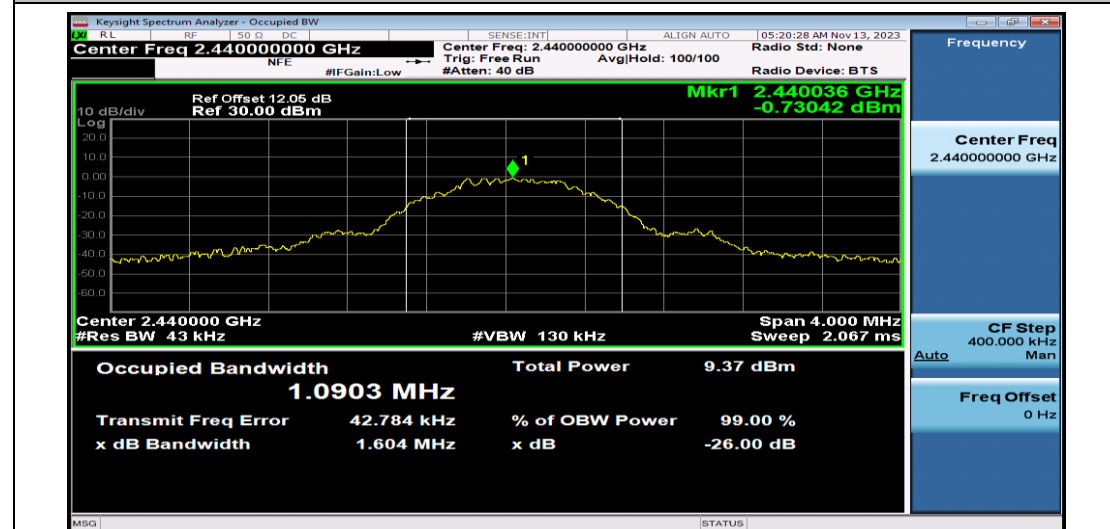
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0804	2401.5057	2402.5861	---	---
BLE_1M	Ant1	2440	1.0903	2439.4976	2440.5879	---	---
BLE_1M	Ant1	2480	1.0397	2479.5239	2480.5636	---	---

Appendix A_2409B1499SHA-001

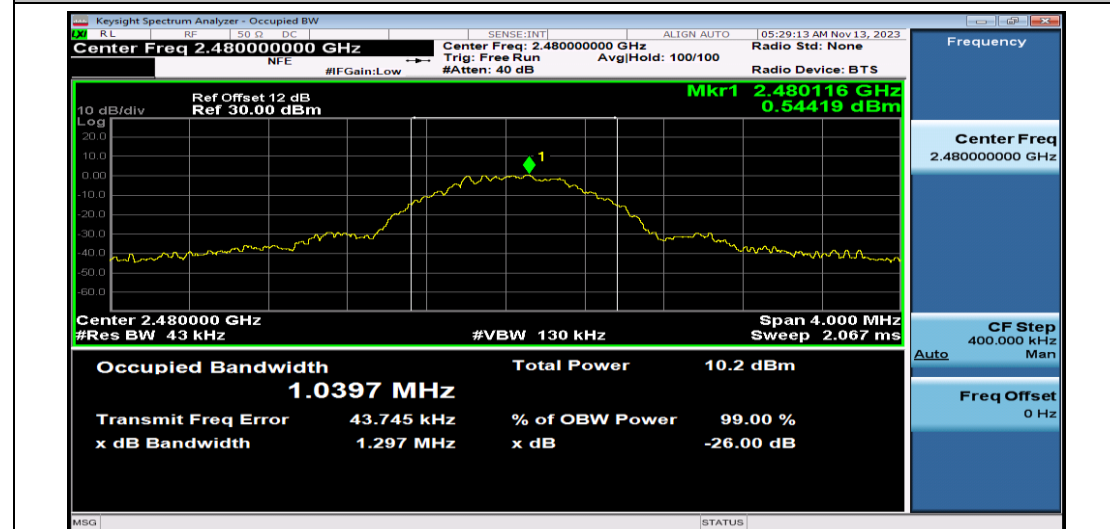
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

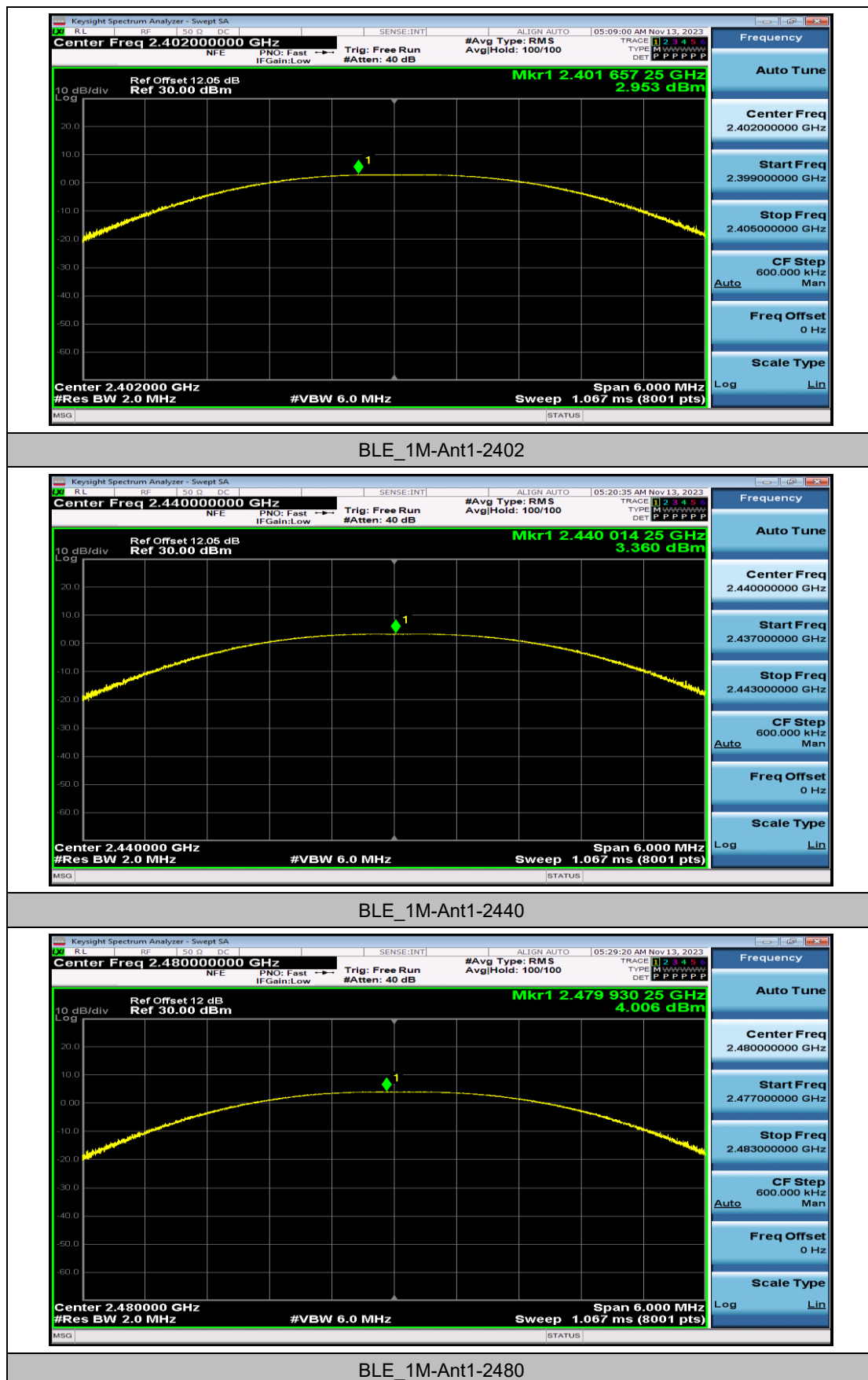
Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.95	≤30	5.95	≤36	PASS
BLE_1M	Ant1	2440	3.36	≤30	6.36	≤36	PASS
BLE_1M	Ant1	2480	4.01	≤30	7.01	≤36	PASS

Appendix A_2409B1499SHA-001

Test Graphs Peak



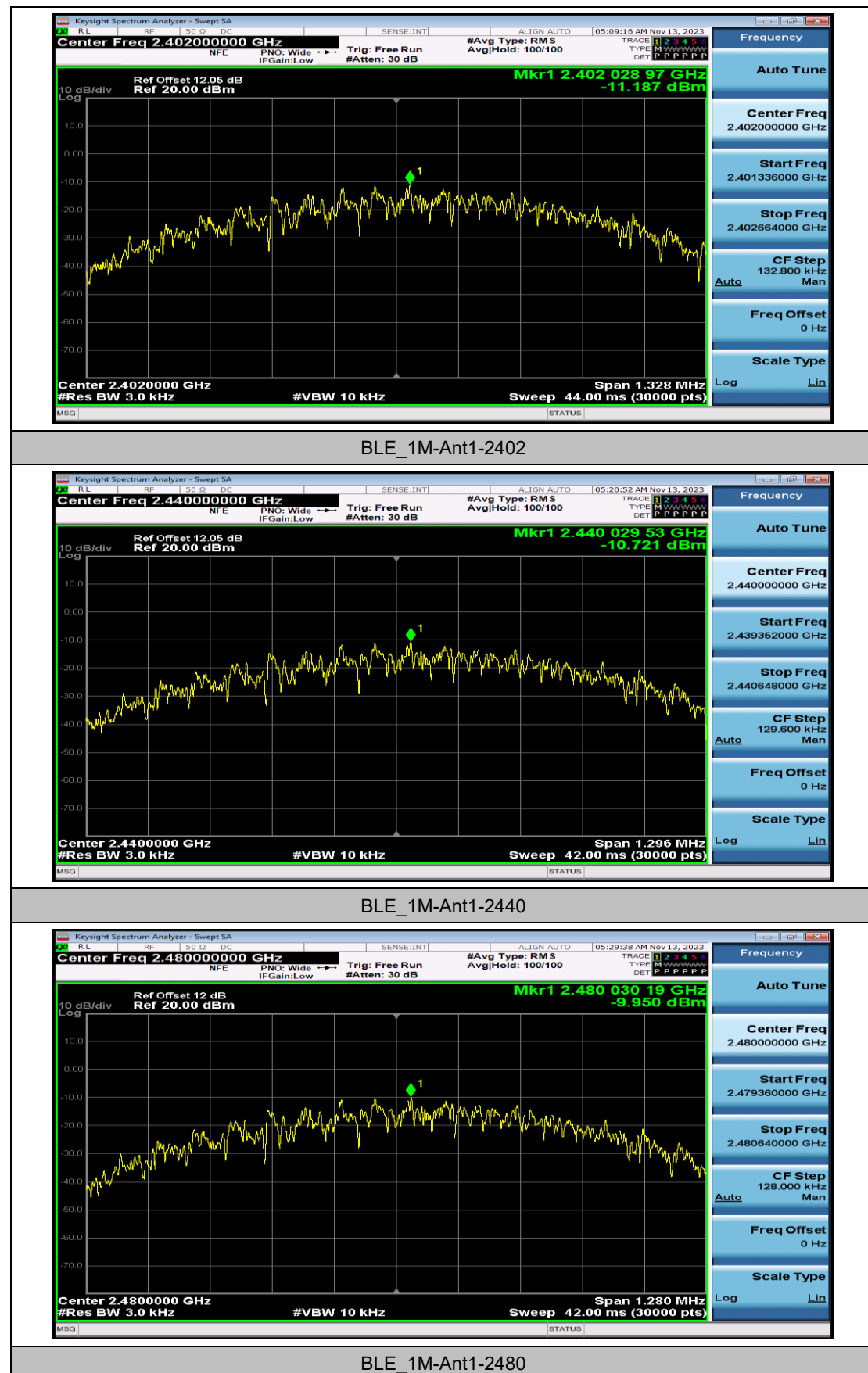
Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.19	≤8.00	PASS
BLE_1M	Ant1	2440	-10.72	≤8.00	PASS
BLE_1M	Ant1	2480	-9.95	≤8.00	PASS

Appendix A_2409B1499SHA-001

Test Graphs



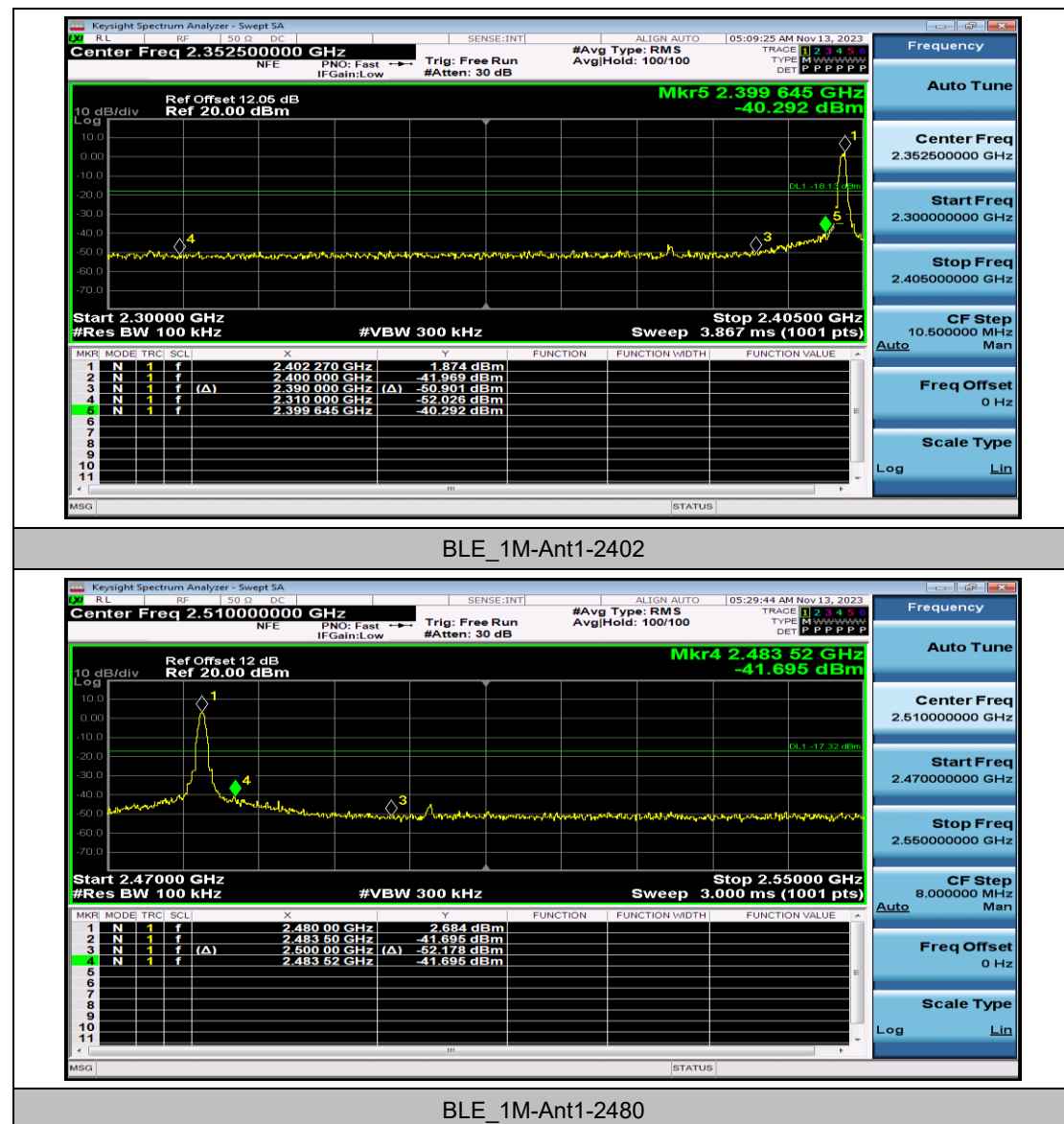
Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.87	-40.29	≤-18.13	PASS
BLE_1M	Ant1	High	2480	2.68	-41.7	≤-17.32	PASS

Appendix A_2409B1499SHA-001

Test Graphs



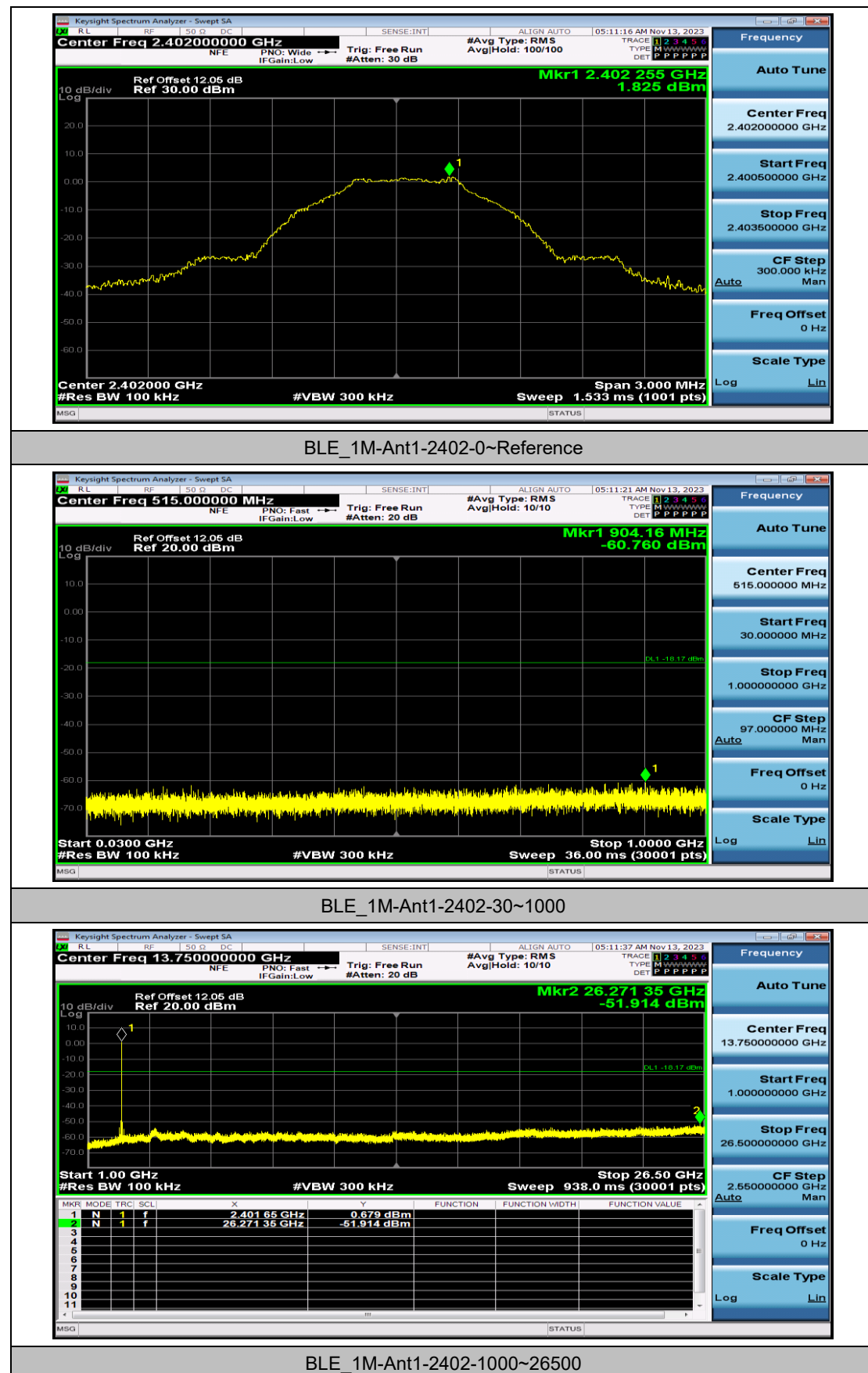
Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.83	1.83	---	PASS
BLE_1M	Ant1	2402	30~1000	1.83	-60.76	≤-18.17	PASS
BLE_1M	Ant1	2402	1000~26500	1.83	-51.91	≤-18.17	PASS
BLE_1M	Ant1	2440	0~Reference	1.80	1.80	---	PASS
BLE_1M	Ant1	2440	30~1000	1.80	-60.67	≤-18.2	PASS
BLE_1M	Ant1	2440	1000~26500	1.80	-52.18	≤-18.2	PASS
BLE_1M	Ant1	2480	0~Reference	2.91	2.91	---	PASS
BLE_1M	Ant1	2480	30~1000	2.91	-59.64	≤-17.09	PASS
BLE_1M	Ant1	2480	1000~26500	2.91	-51.57	≤-17.09	PASS

Appendix A_2409B1499SHA-001

Test Graphs



KeySight Spectrum Analyzer - Swept SA

Center Freq 2.44000000 GHz

Ref Offset 12.05 dB
Ref 30.00 dBm

Mkr1 2.440 285 GHz
1.804 dBm

Start 2.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.533 ms (1001 pts)

Frequency

Auto Tune

Center Freq
2.44000000 GHz

Start Freq
2.43850000 GHz

Stop Freq
2.44150000 GHz

CF Step
300.000 kHz
Man

Freq Offset
0 Hz

Scale Type
Log

BLE_1M-Ant1-2440-0~Reference

KeySight Spectrum Analyzer - Swept SA

Center Freq 515.000000 MHz

Ref Offset 12.05 dB
Ref 20.00 dBm

Mkr1 884.76 MHz
-60.665 dBm

Start 0.0300 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 36.00 ms (30001 pts)

Frequency

Auto Tune

Center Freq
515.000000 MHz

Start Freq
30.000000 MHz

Stop Freq
1.00000000 GHz

CF Step
97.000000 MHz
Man

Freq Offset
0 Hz

Scale Type
Log

BLE_1M-Ant1-2440-30~1000

KeySight Spectrum Analyzer - Swept SA

Center Freq 13.75000000 GHz

Ref Offset 12.05 dB
Ref 20.00 dBm

Mkr2 2.535 95 GHz
-52.177 dBm

Start 1.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 938.0 ms (30001 pts)

Frequency

Auto Tune

Center Freq
13.75000000 GHz

Start Freq
1.00000000 GHz

Stop Freq
26.50000000 GHz

CF Step
2.55000000 GHz
Man

Freq Offset
0 Hz

Scale Type
Log

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439 90 GHz	1.790 dBm			
1	N	1	f	2.636 95 GHz	-52.177 dBm			

KeySight Spectrum Analyzer - Swept SA

Center Freq 2.480000000 GHz

Ref Offset 12 dB
Ref 30.00 dBm

Mkr1 2.480 252 GHz
2.909 dBm

Start 2.480000000 GHz
Stop 2.481500000 GHz
CF Step 300.000 kHz
Freq Offset 0 Hz
Scale Type Log

Center Freq 515.0000000 MHz

Ref Offset 12 dB
Ref 20.00 dBm

Mkr1 923.40 MHz
-59.639 dBm

Start 0.0300 GHz
Stop 1.0000 GHz
CF Step 97.0000000 MHz
Freq Offset 0 Hz
Scale Type Log

Center Freq 13.750000000 GHz

Ref Offset 12 dB
Ref 20.00 dBm

Mkr2 2.383 80 GHz
-51.569 dBm

Start 1.00 GHz
Stop 26.50 GHz
CF Step 2.550000000 GHz
Freq Offset 0 Hz
Scale Type Log

BLE 1M-Ant1-2480-0~Reference

BLE 1M-Ant1-2480-30~1000

BLE 1M-Ant1-2480-1000~26500