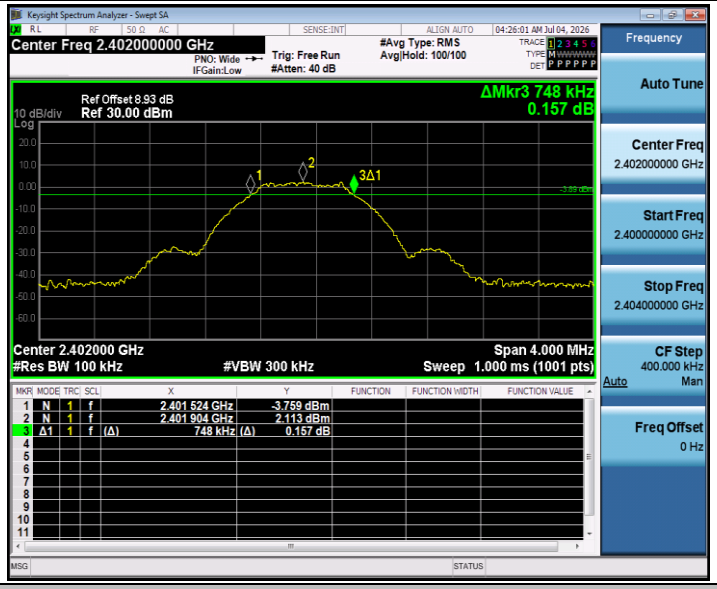
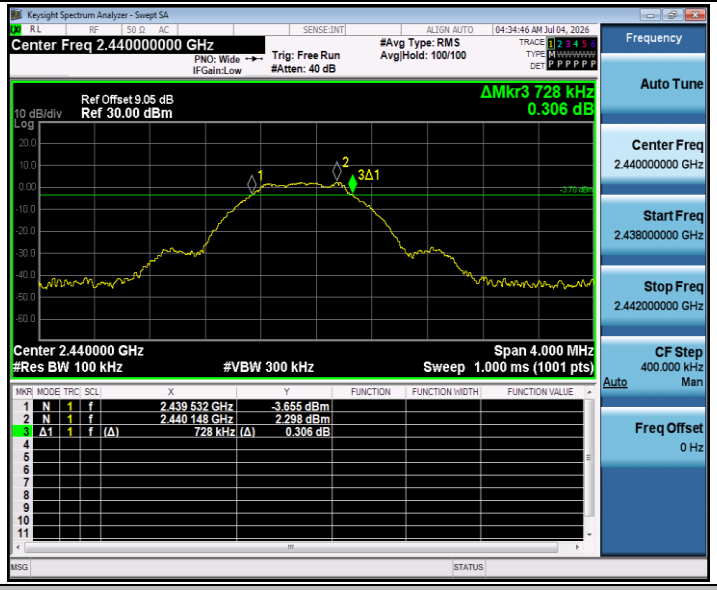
Case No. :GTS20260616001-1-01
Ambient Condition: 23 ℃, 53 %RH
According Standard: ■Part15C
Test Date:2026.6.17-2026.7.6**Test Engineer:** Evan ouyang

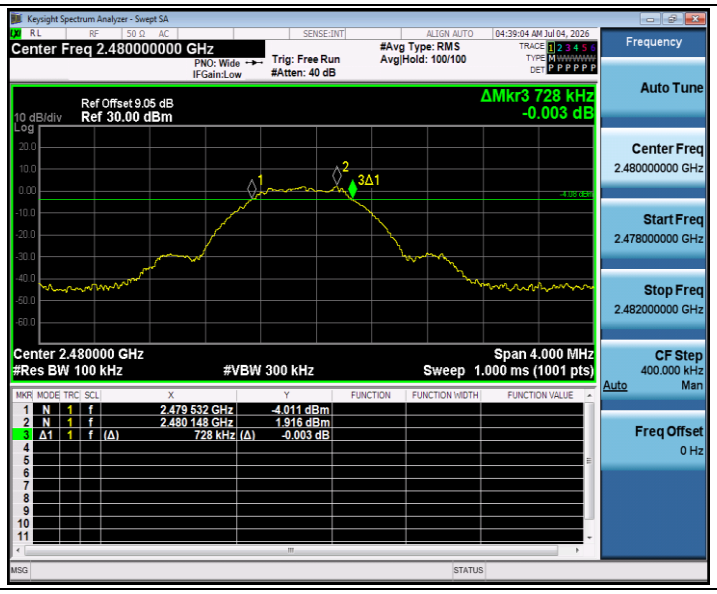
AppendixA.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.748	2401.524	2402.272	0.5	PASS
		2440	0.728	2439.532	2440.260	0.5	PASS
		2480	0.728	2479.532	2480.260	0.5	PASS

Test Graphs

BLE_Ant1_2402

BLE_Ant1_2440

BLE_Ant1_2480


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 100/100
04:39:04 AM Jul 04, 2026
Ref Offset 9.05 dB
10 dB/div
Ref 30.00 dBm
ΔMkr3 728 kHz
-0.003 dB
Center 2.480000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 4.000 MHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 2.479 532 GHz -4.011 dBm
2 N 1 f 2.480 148 GHz 1.916 dBm
3 Δ1 1 f (Δ) 728 kHz (Δ) -0.003 dB
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.478000000 GHz
Stop Freq
2.482000000 GHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz

AppendixA.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0408	2401.3841	2402.4249	---	---
		2440	1.0373	2439.3865	2440.4238	---	---
		2480	1.0442	2479.3805	2480.4247	---	---

Test Graphs

BLE_Ant1_2402

BLE_Ant1_2440

BLE_Ant1_2480


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
04:39:11 AM Jul 04, 2026
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#IFGain:Low
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 9.05 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 2.479992 GHz
-0.49286 dBm
Center 2.48 GHz
#Res BW 43 kHz
#VBW 130 kHz
Span 4 MHz
Sweep 2.067 ms
Occupied Bandwidth
1.0442 MHz
Total Power
9.39 dBm
Transmit Freq Error
-97.400 kHz
% of OBW Power
99.00 %
x dB Bandwidth
1.292 MHz
x dB
-26.00 dB
Center Freq
2.480000000 GHz
CF Step
400.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

AppendixA.3: Maximum conducted output power

Test Result Peak

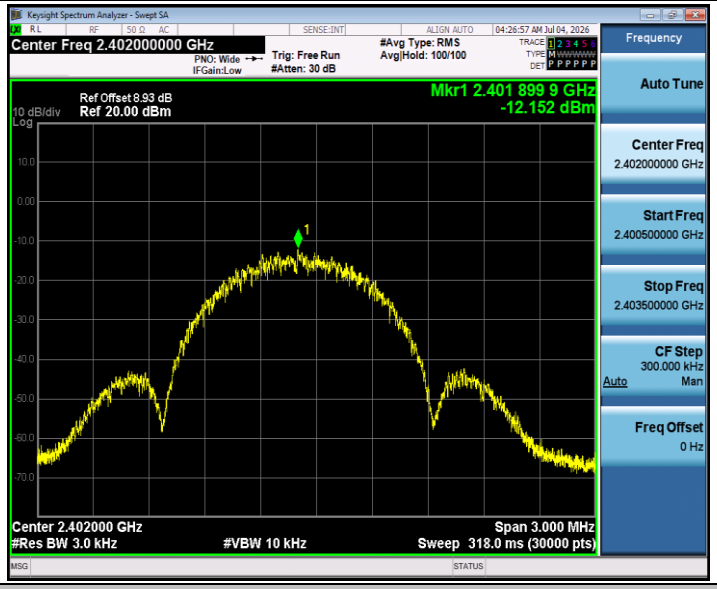
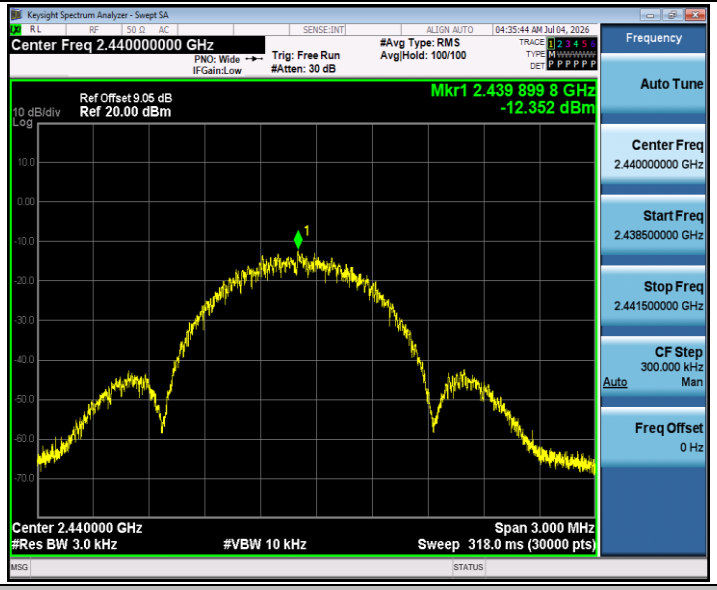
TestMode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	4.84	≤30	PASS
		2440	4.61	≤30	PASS
		2480	4.22	≤30	PASS

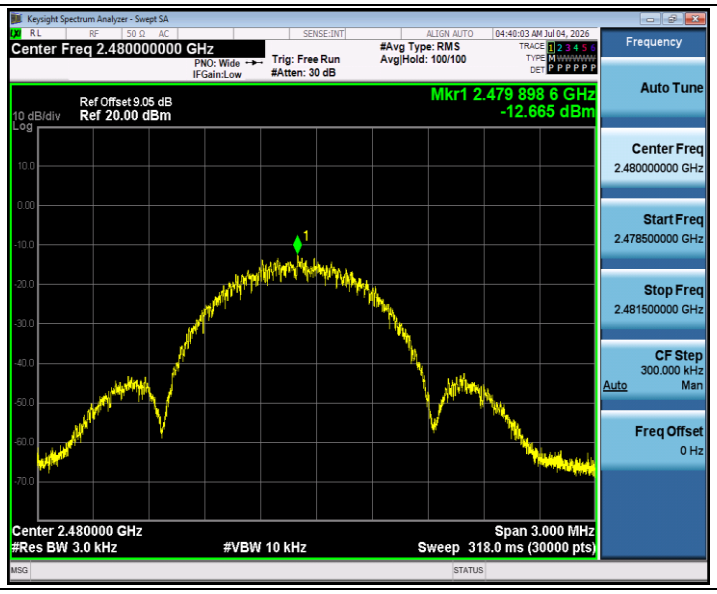
AppendixA.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-12.15	≤8.00	PASS
		2440	-12.35	≤8.00	PASS
		2480	-12.67	≤8.00	PASS

Test Graphs

BLE_Ant1_2402

BLE_Ant1_2440

BLE_Ant1_2480

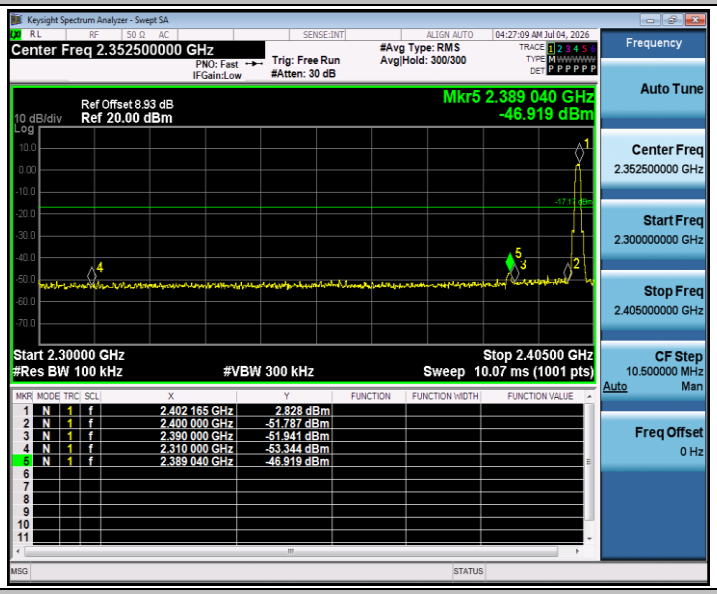
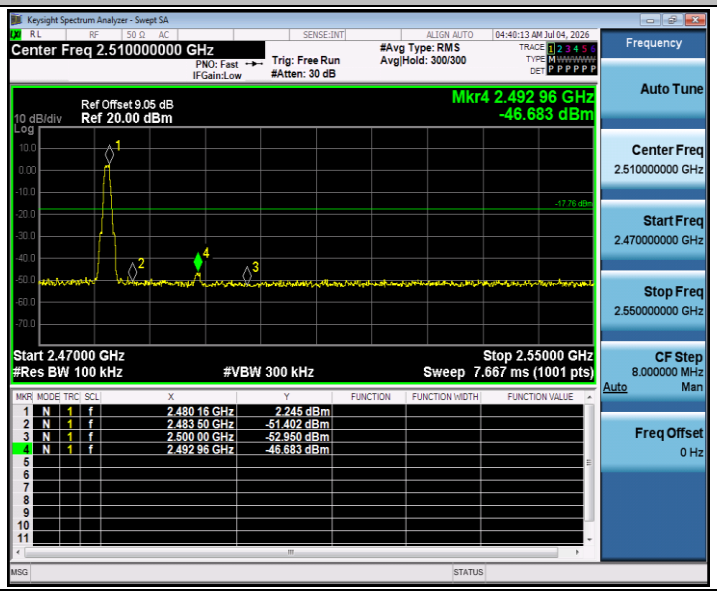

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
Ref Offset 9.05 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.479 898 6 GHz
-12.665 dBm
Center 2.480000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 3.000 MHz
Sweep 318.0 ms (30000 pts)
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

AppendixA.5:Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	2.83	-46.92	≤-17.17	PASS
		High	2480	2.25	-46.68	≤-17.76	PASS

Test Graphs

BLE_Ant1_Low_2402

BLE_Ant1_High_2480


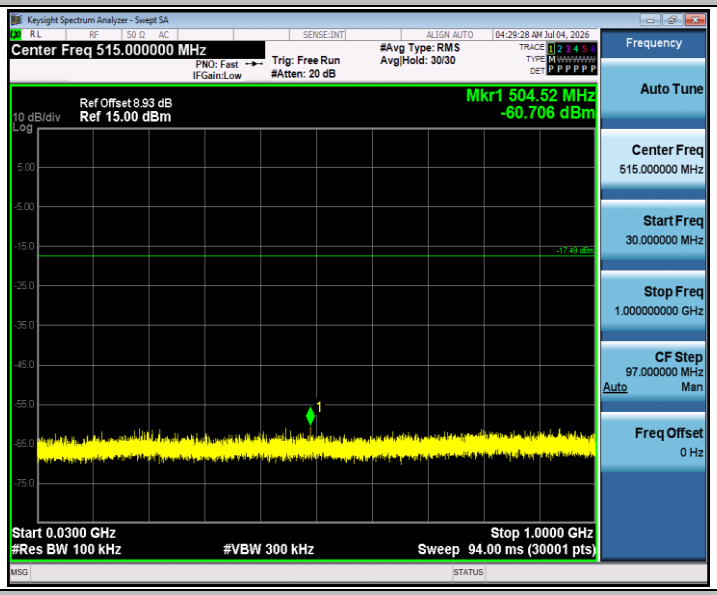
AppendixA.6:Conducted Spurious Emission

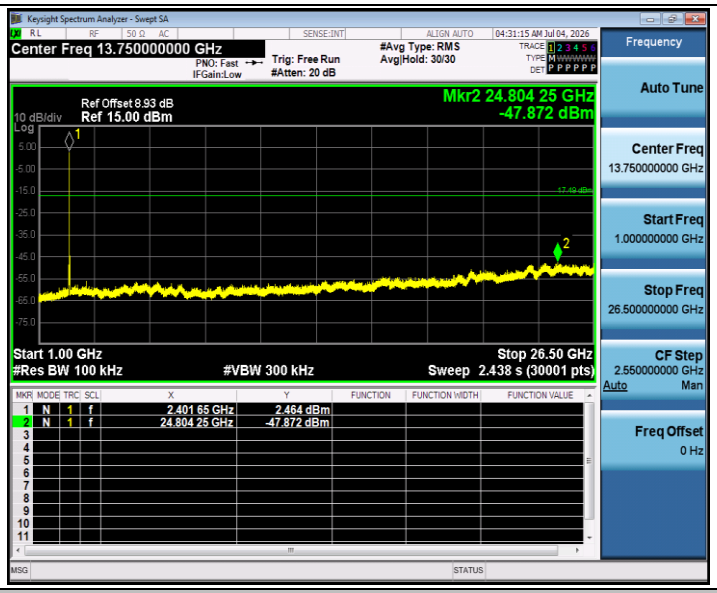
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-60.71	≤-17.49	PASS
			1000~26500	2.51	-47.87	≤-17.49	PASS
		2440	Reference	2.32	2.32	---	PASS
			30~1000	2.32	-59.81	≤-17.68	PASS
			1000~26500	2.32	-47.75	≤-17.68	PASS
		2480	Reference	1.99	1.99	---	PASS
			30~1000	1.99	-60.22	≤-18.01	PASS
			1000~26500	1.99	-47.27	≤-18.01	PASS

Test Graphs

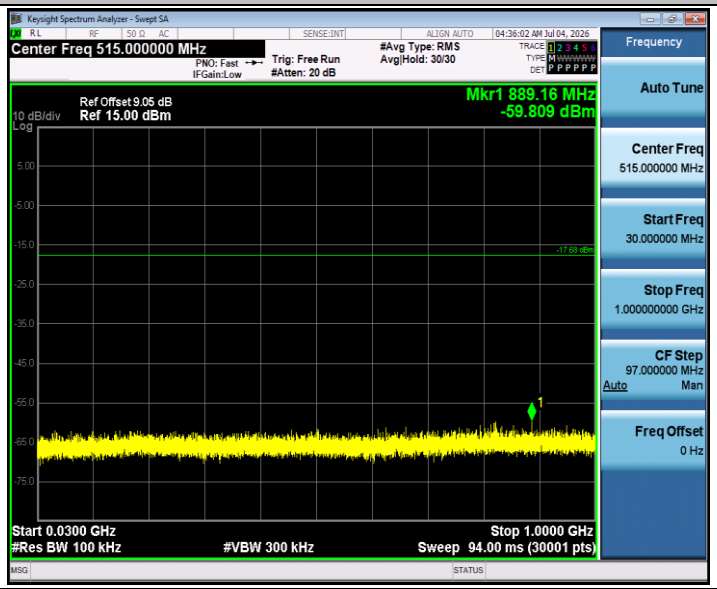
BLE_Ant1_2402_0~Reference

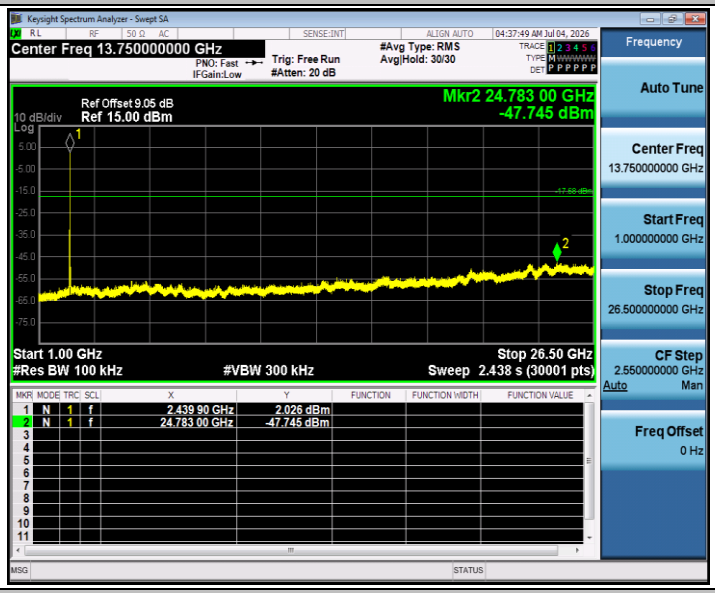
BLE_Ant1_2402_30~1000

BLE_Ant1_2402_1000~26500



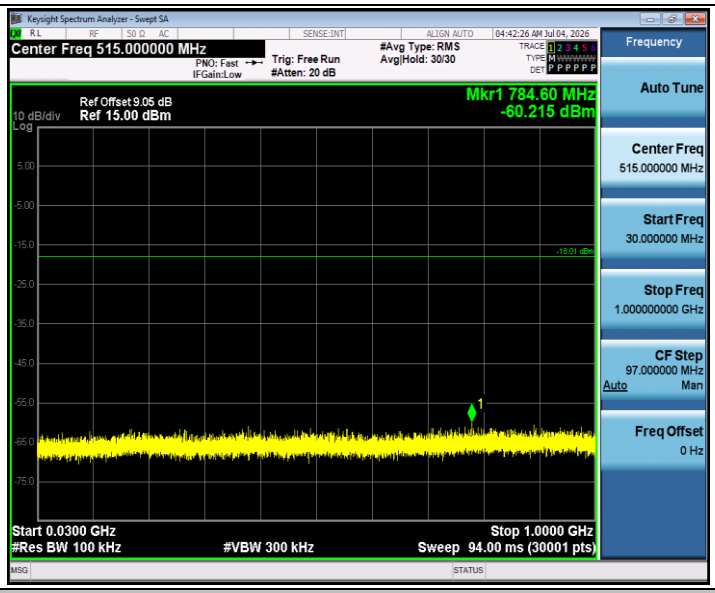
BLE_Ant1_2440_0~Reference

BLE_Ant1_2440_30~1000

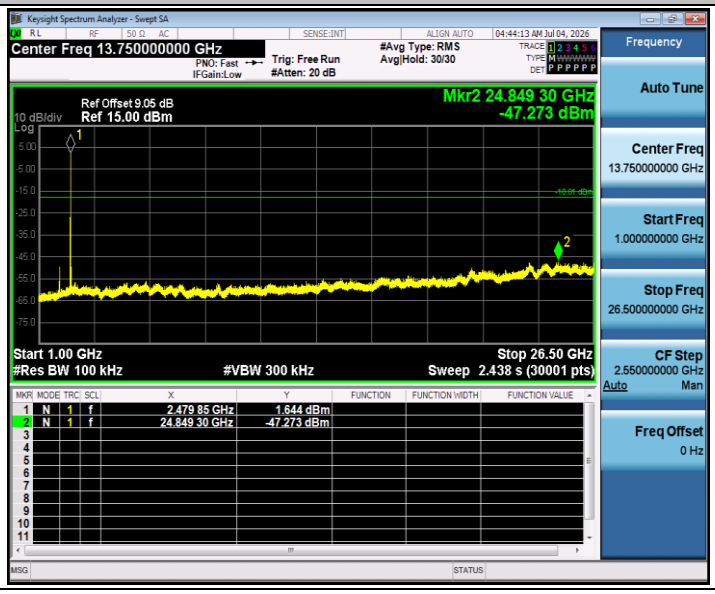


BLE_Ant1_2440_1000~26500

BLE_Ant1_2480_0~Reference

BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500

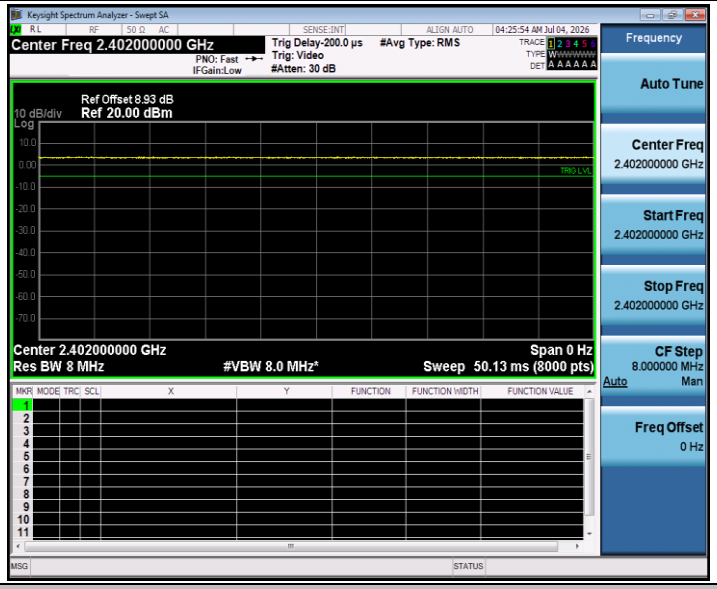
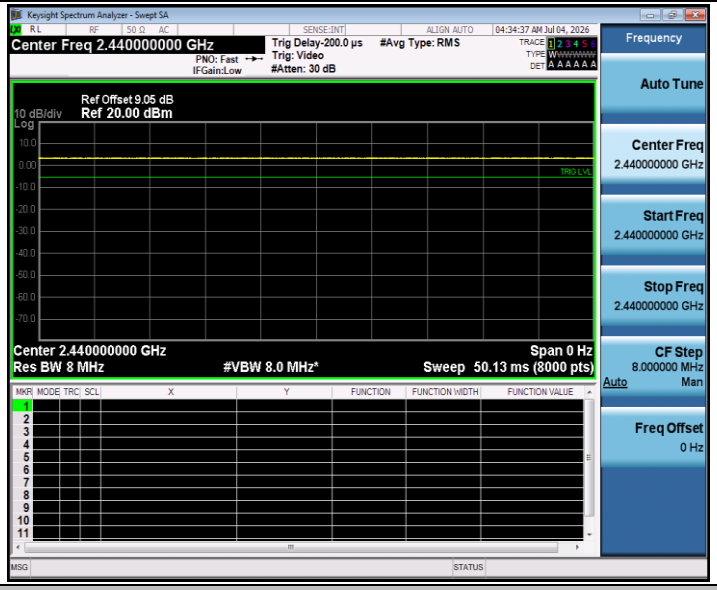


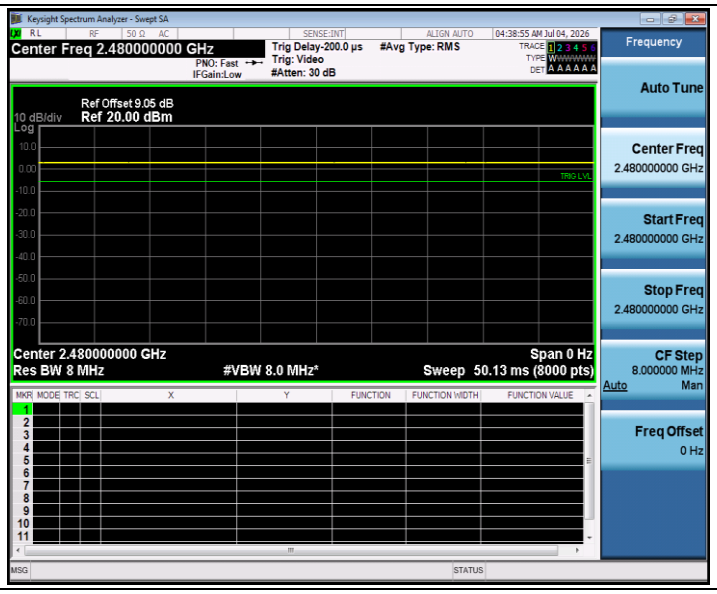
AppendixA.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE	Ant1	2402	50.00	50.00	1.0000	100.00	0.00	0.02
		2440	50.00	50.00	1.0000	100.00	0.00	0.02
		2480	50.00	50.00	1.0000	100.00	0.00	0.02

Test Graphs

BLE_Ant1_2402

BLE_Ant1_2440

BLE_Ant1_2480


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig Delay-200.0 µs
Trig: Video
#Atten: 30 dB
#Avg Type: RMS
04:38:55 AM Jul 04, 2026
Ref Offset 9.05 dB
10 dB/div
Ref 20.00 dBm
Log
Center 2.480000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz*
Span 0 Hz
Sweep 50.13 ms (8000 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.480000000 GHz
Stop Freq
2.480000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

AppendixA.8:Emissions in Restricted Bands

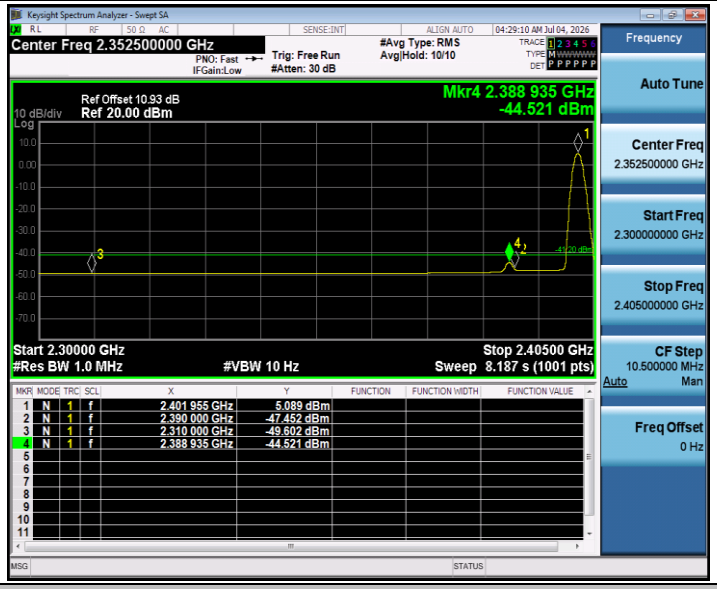
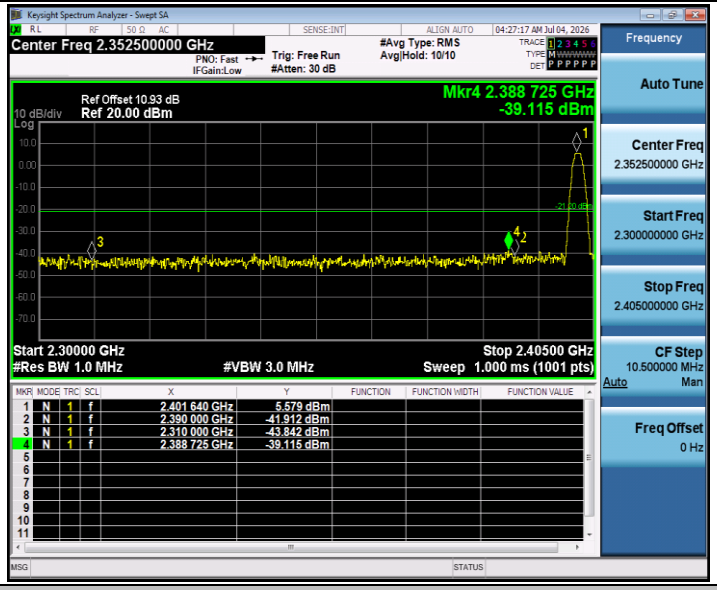
Test Result

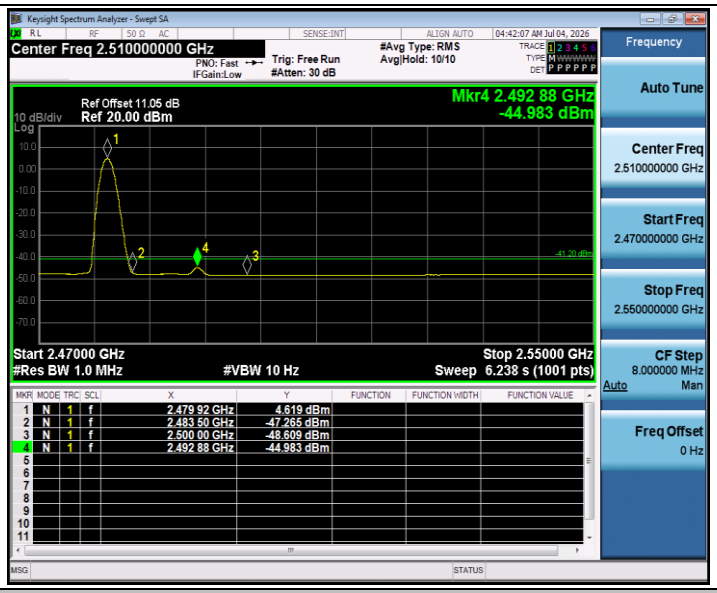
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.6	≤-41.20	45.60	≤54	PASS
				AV	2388.935	-44.52	≤-41.20	50.68	≤54	PASS
				AV	2390.000	-47.45	≤-41.20	47.75	≤54	PASS
				Peak	2310.000	-43.84	≤-21.20	51.36	≤74	PASS
				Peak	2388.725	-39.11	≤-21.20	56.09	≤74	PASS
				Peak	2390.000	-41.91	≤-21.20	53.29	≤74	PASS
		High	2480	AV	2483.500	-47.27	≤-41.20	47.93	≤54	PASS
				AV	2492.880	-44.98	≤-41.20	50.22	≤54	PASS
				AV	2500.000	-48.61	≤-41.20	46.59	≤54	PASS
				Peak	2483.500	-40.76	≤-21.20	54.44	≤74	PASS
				Peak	2493.600	-38.99	≤-21.20	56.21	≤74	PASS
				Peak	2500.000	-44.27	≤-21.20	50.93	≤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_Low_2402_AV

BLE_Ant1_Low_2402_Peak

BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak