



Appendix B

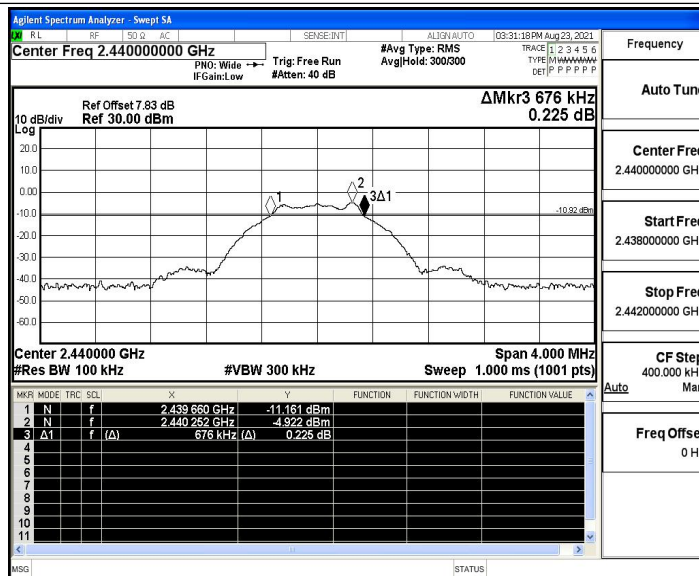
RF Test Data for BLE (Conducted Measurement)

Product Name: AMD R1505G/R1305G Player

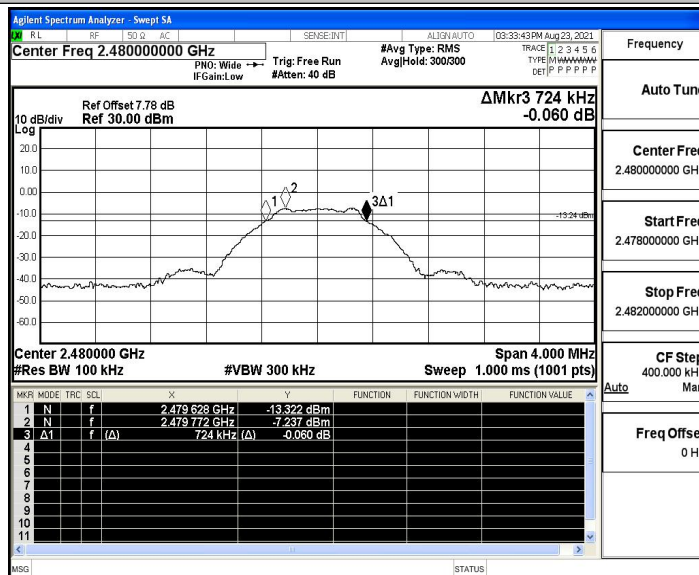
Test Model: SMPA

Environmental Conditions

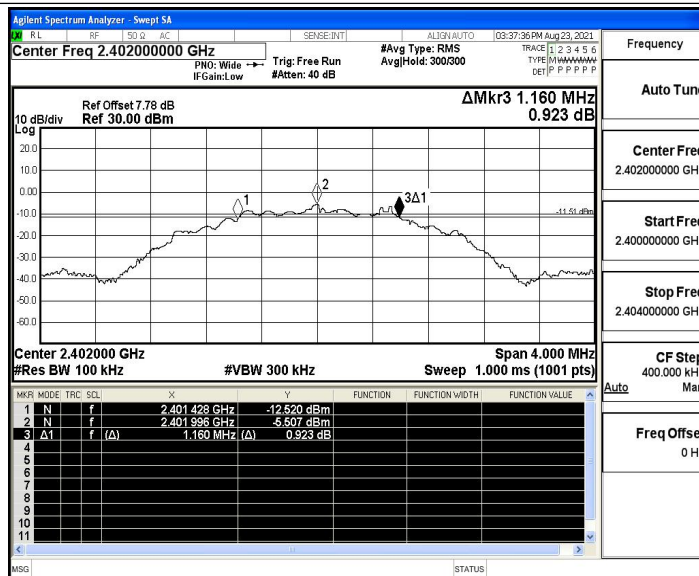
Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



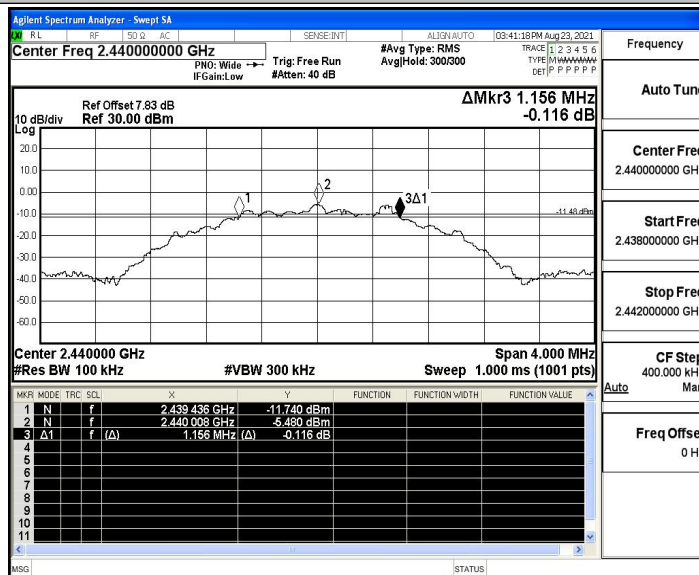
BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

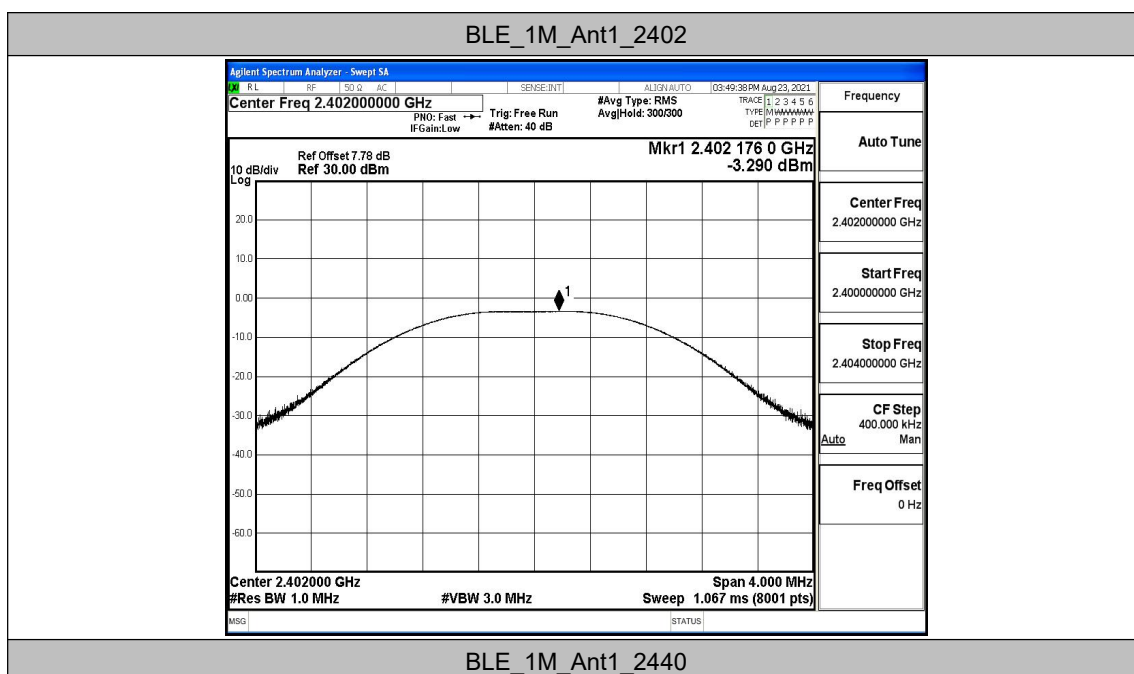


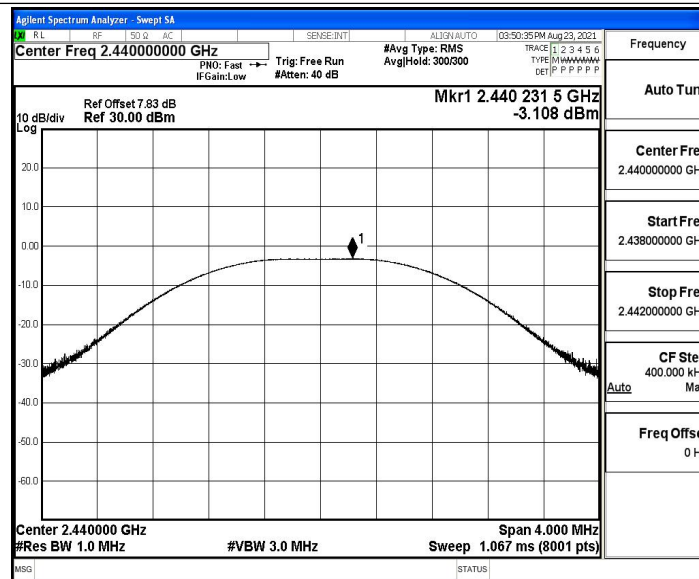
B.2 Maximum conducted output power

Test Result

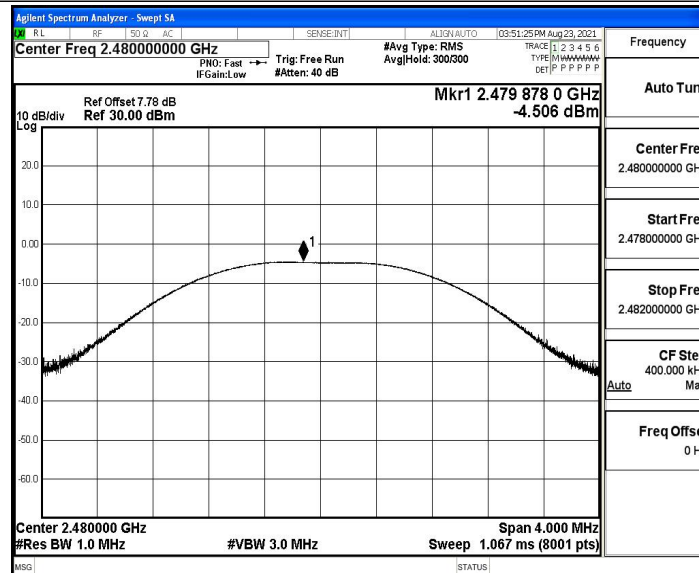
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.29	≤30	PASS
		2440	-3.11	≤30	PASS
		2480	-4.51	≤30	PASS
BLE_2M	Ant1	2402	-3.21	≤30	PASS
		2440	-3.19	≤30	PASS
		2480	-4.4	≤30	PASS

Test Graphs

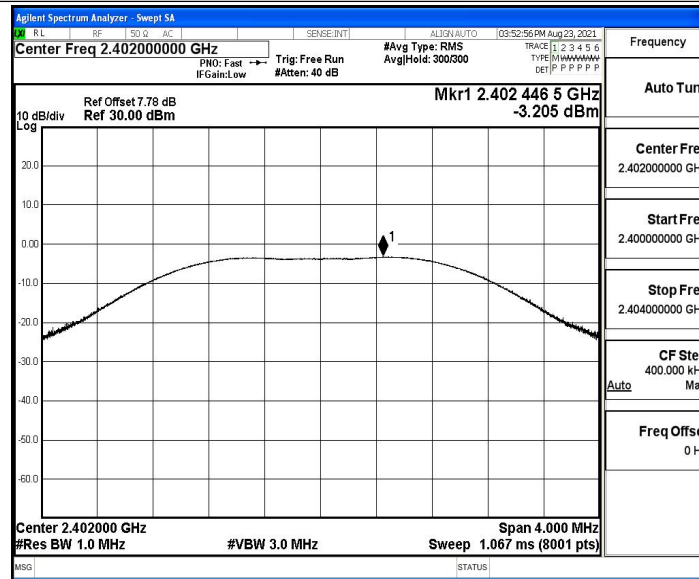




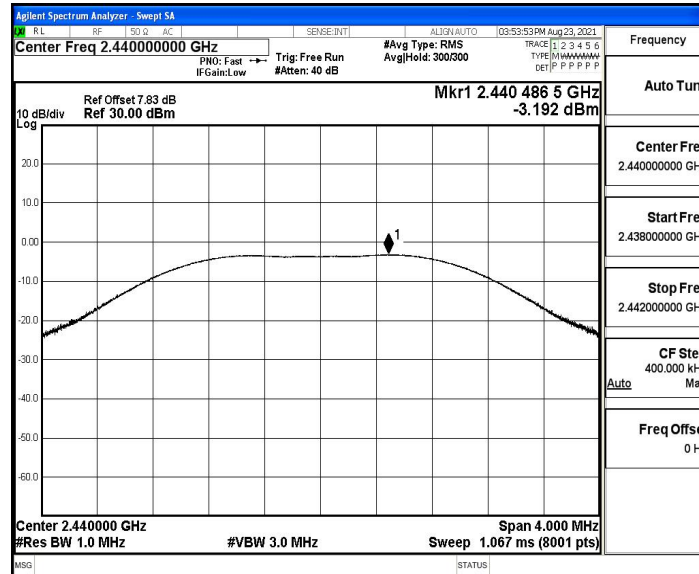
BLE_1M_Ant1_2480



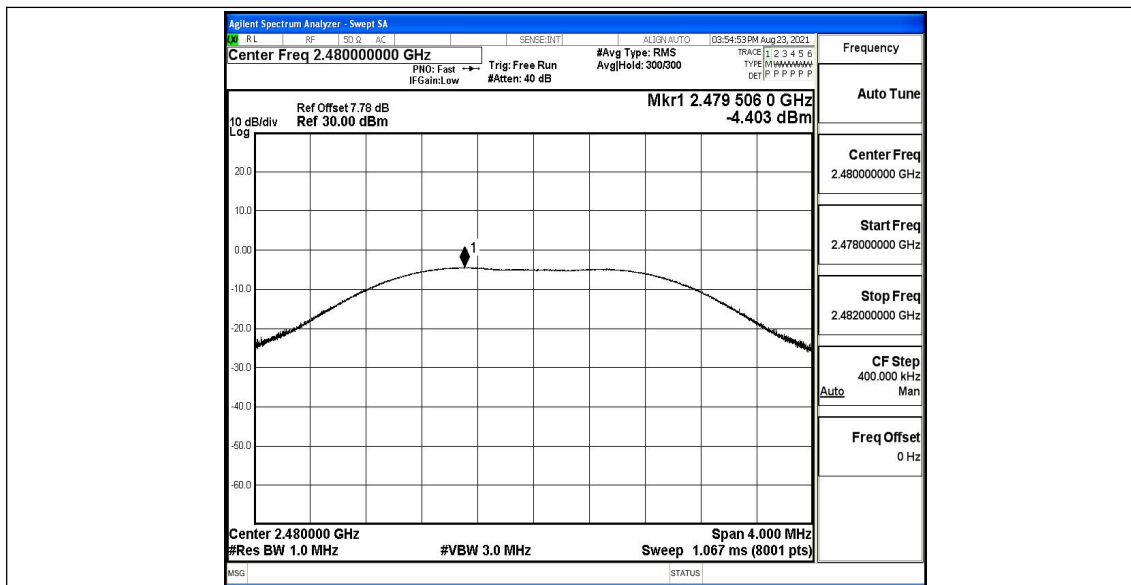
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



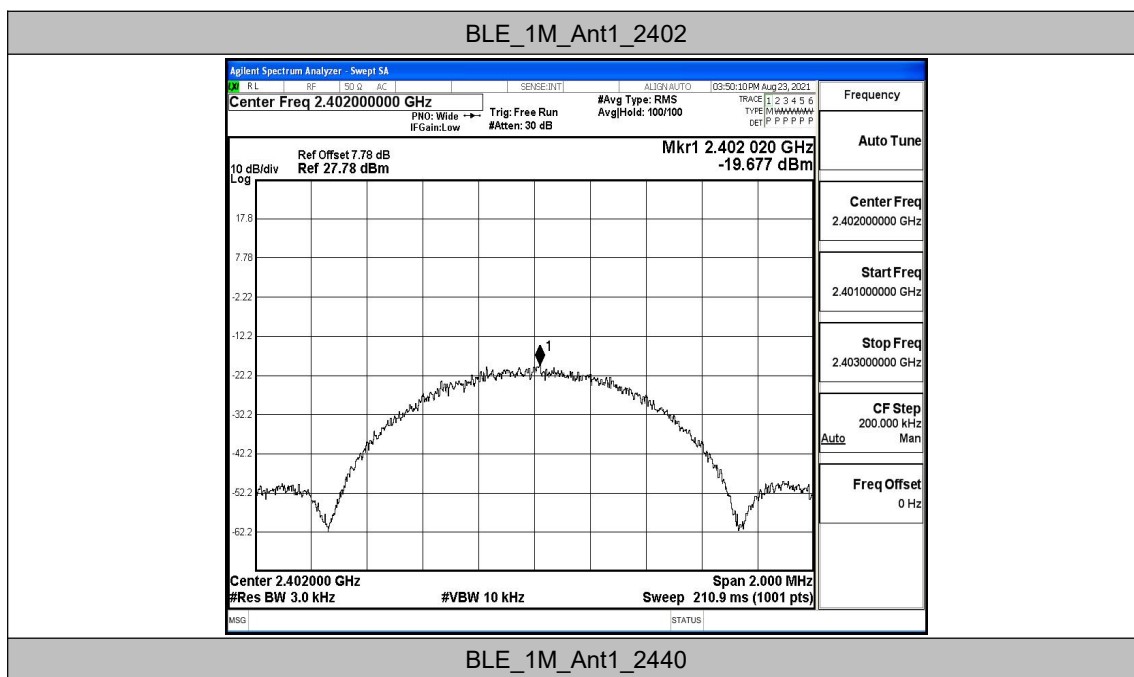


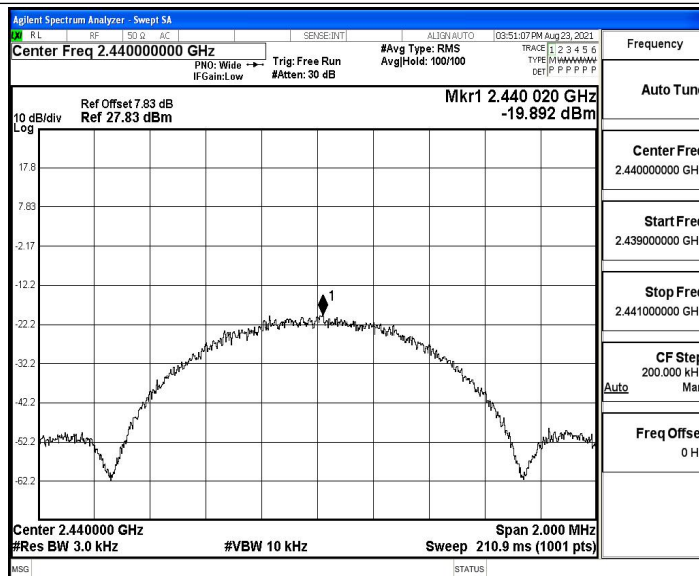
B.3 Maximum power spectral density

Test Result

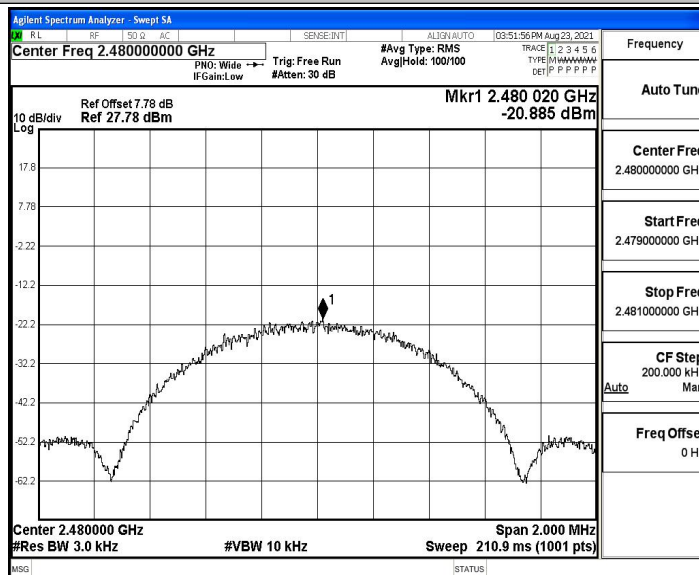
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.68	≤8	PASS
		2440	-19.89	≤8	PASS
		2480	-20.89	≤8	PASS
BLE_2M	Ant1	2402	-22.18	≤8	PASS
		2440	-22.10	≤8	PASS
		2480	-23.44	≤8	PASS

Test Graphs

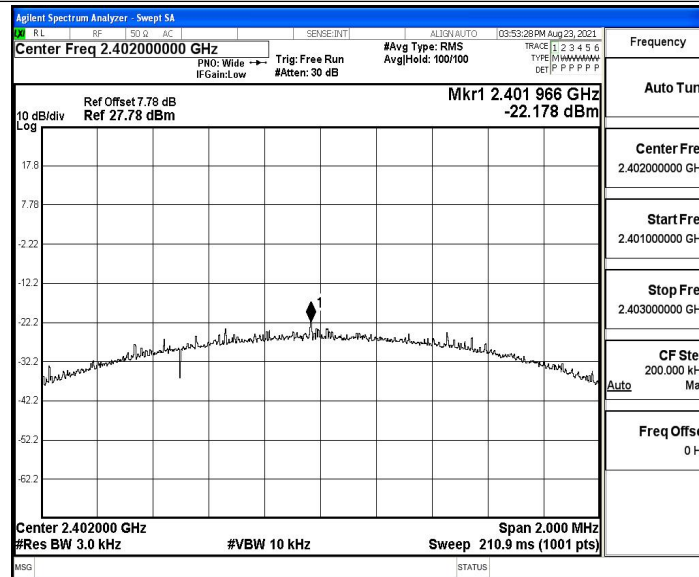




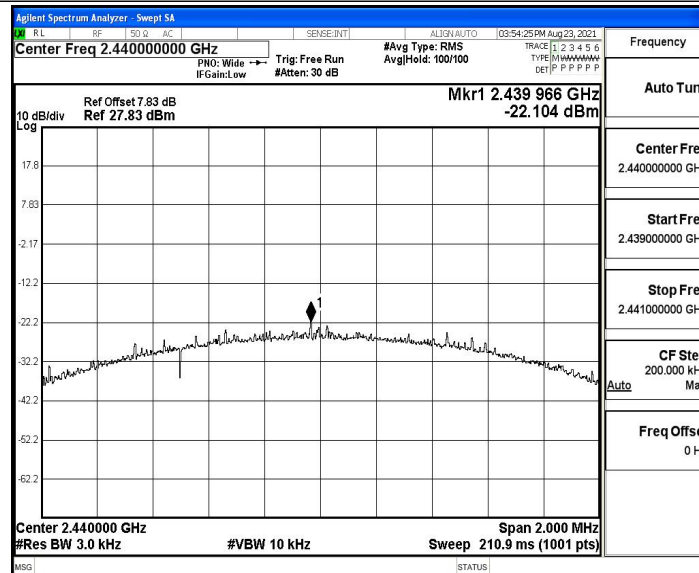
BLE_1M_Ant1_2480



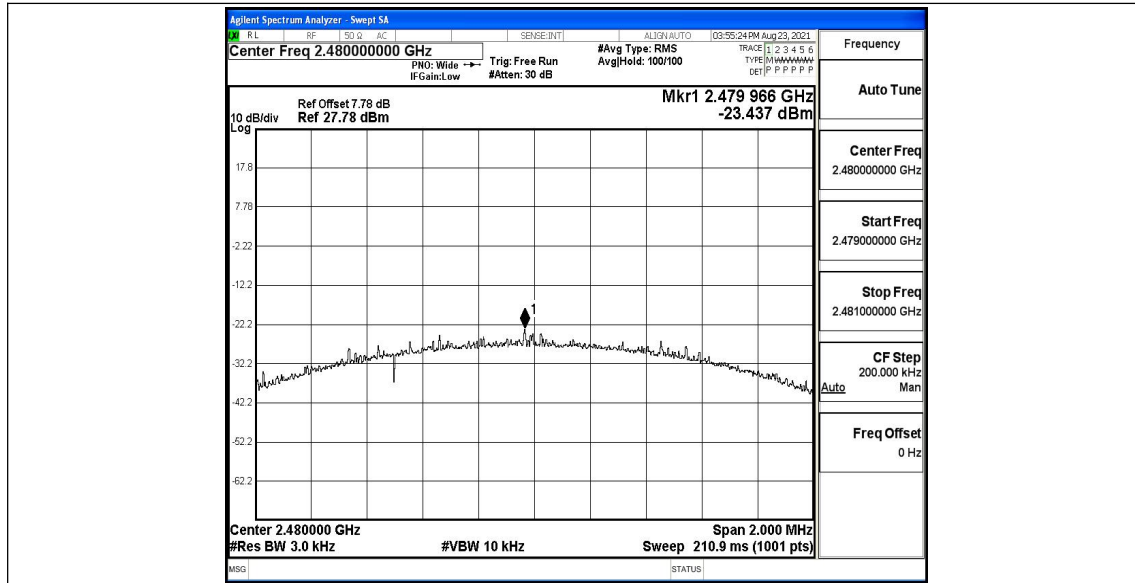
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



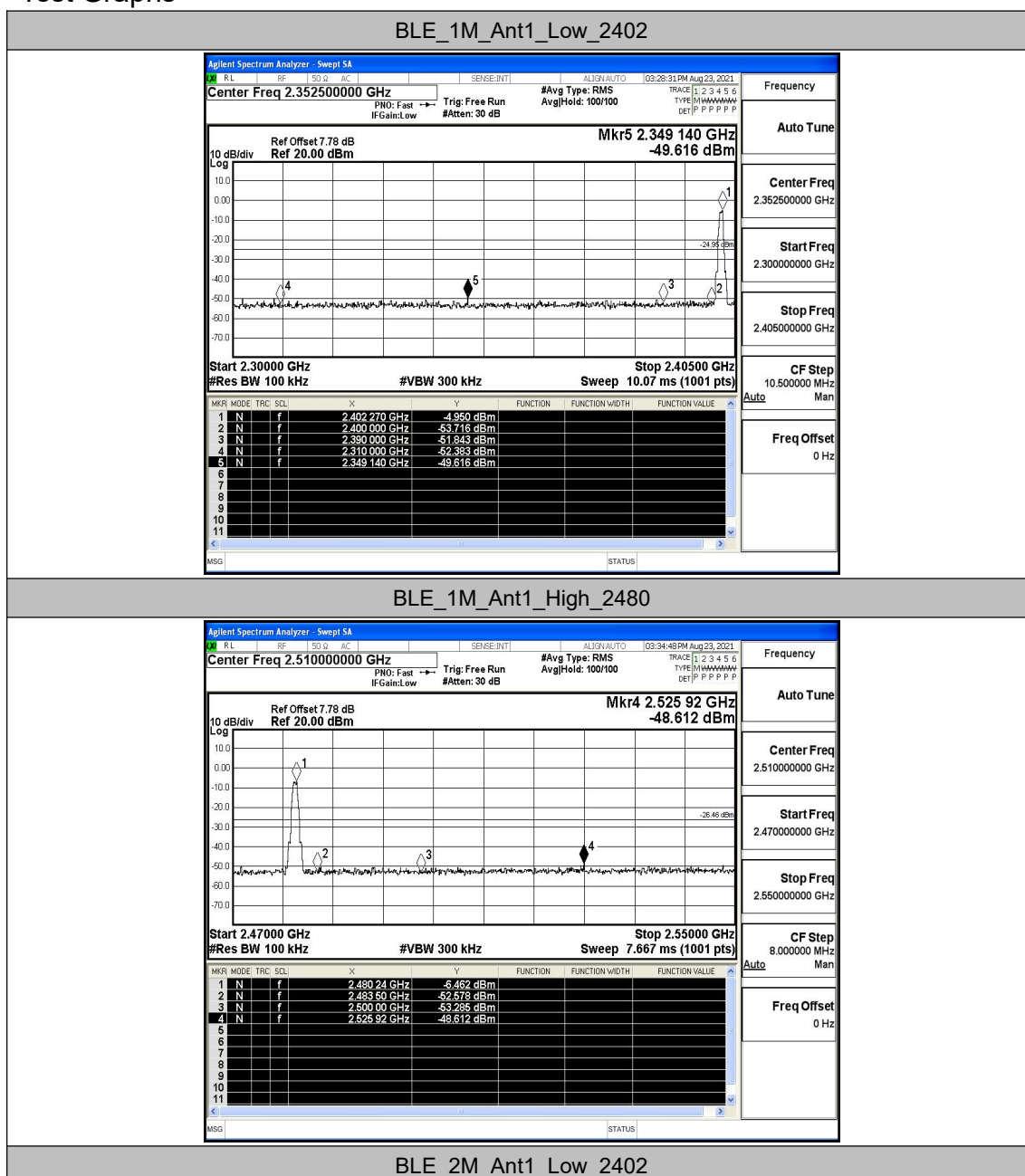


B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.95	-49.62	≤-24.95	PASS
		High	2480	-6.46	-48.61	≤-26.46	PASS
BLE_2M	Ant1	Low	2402	-7.18	-36.47	≤-27.18	PASS
		High	2480	-6.78	-48.85	≤-26.78	PASS

Test Graphs





Agilent Spectrum Analyzer - Sweep SA

RF 50 G AC SENSE INT ALIGN AUTO 03:38:41 PM Aug 23, 2021

Center Freq 2.352500000 GHz #Avg Type: RMS
PNO: Fast Trig: Free: 30 dB Avg/Off: 100/100
IF Gain Low

Ref Offset 7.78 dB Mkr5 2.399 960 GHz
Ref 20.00 dB -36.466 dBm

MKR MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	2.402 165 GHz	-7.175 dBm			
2	N	f	2.400 000 GHz	-36.466 dBm			
3	N	f	2.390 000 GHz	-52.612 dBm			
4	N	f	2.310 000 GHz	-53.766 dBm			
5	N	f	2.399 960 GHz	-36.466 dBm			
6							
7							
8							
9							
10							
11							

Start 2.30000 GHz Stop 2.40500 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 10.07 ms (1001 pts)

Frequency Auto Tun Center Freq 2.352500000 MHz Start Freq 2.300000000 MHz Stop Freq 2.405000000 MHz CF Step 10.500000 MHz Auto Ma Freq Offset 0 Hz

BLE 2M Ant1 High 2480

Agilent Spectrum Analyzer - Sweep SA

RL RF SO Q AC SENSE:INT ALG:WUUTO 03:44:47 PM Aug 23, 2021

Center Freq 2.510000000 GHz #Avg Type: RMS
PNO: Fast IF Gain Low Trig: Free Run AvgHold: 100/100
IFBW: Low #Atten: 30 dB TYPE: BWAAAAWA DET: P P P P P P

Mkr4 2.538 48 GHz
-48.852 dBm

10 dB/div Ref Offset 7.78 dB
Log Ref 20.00 dBm

Start 2.470000 GHz Stop 2.550000 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 7.667 ms (1001 pts)

MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	2.480 00 GHz	-6.776 dBm			
2	N	f	2.483 50 GHz	-64.620 dBm			
3	N	f	2.500 00 GHz	-52.884 dBm			
4	N	f	2.538 48 GHz	-48.852 dBm			
5							
6							
7							
8							
9							
10							
11							



B.5 Conducted Spurious Emission

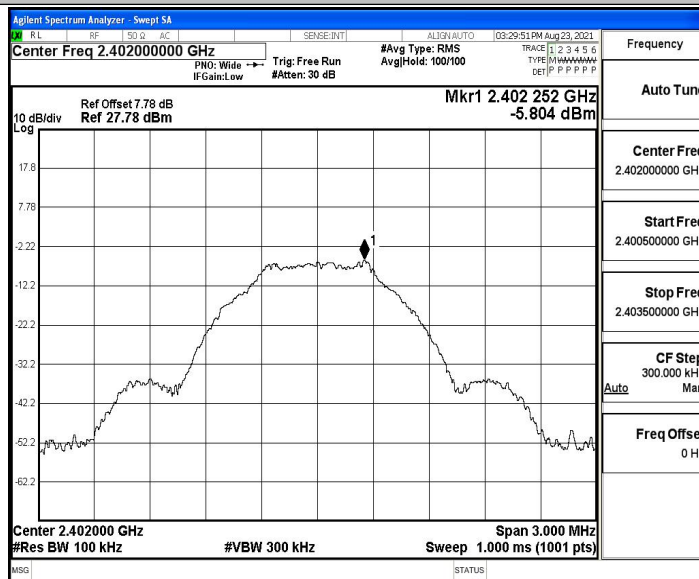
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.80	-5.80	---	PASS
			30~1000	-5.80	-57.29	≤ -25.8	PASS
			1000~26500	-5.80	-47.48	≤ -25.8	PASS
		2440	Reference	-4.97	-4.97	---	PASS
			30~1000	-4.97	-56.19	≤ -24.97	PASS
			1000~26500	-4.97	-47.15	≤ -24.97	PASS
		2480	Reference	-7.50	-7.50	---	PASS
			30~1000	-7.50	-56.42	≤ -27.5	PASS
			1000~26500	-7.50	-47.11	≤ -27.5	PASS
BLE_2M	Ant1	2402	Reference	-6.02	-6.02	---	PASS
			30~1000	-6.02	-56.34	≤ -26.02	PASS
			1000~26500	-6.02	-47.12	≤ -26.02	PASS
		2440	Reference	-5.75	-5.75	---	PASS
			30~1000	-5.75	-57.2	≤ -25.75	PASS
			1000~26500	-5.75	-47.35	≤ -25.75	PASS
		2480	Reference	-7.90	-7.90	---	PASS
			30~1000	-7.90	-56.73	≤ -27.9	PASS
			1000~26500	-7.90	-47.58	≤ -27.9	PASS

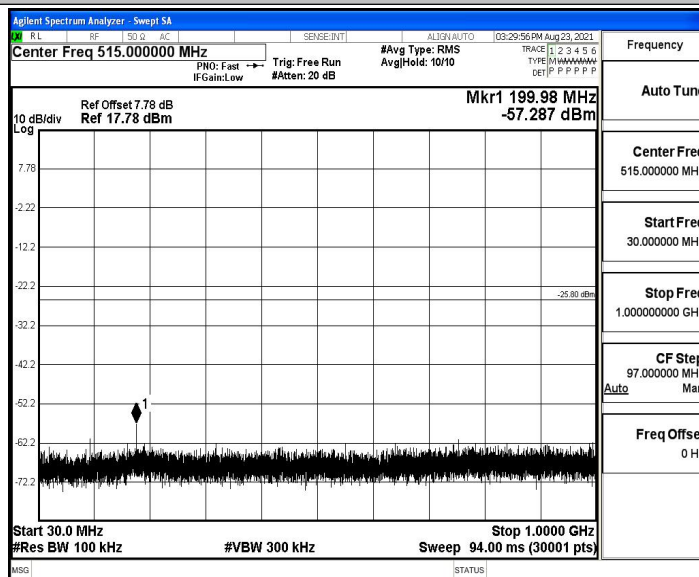


Test Graphs

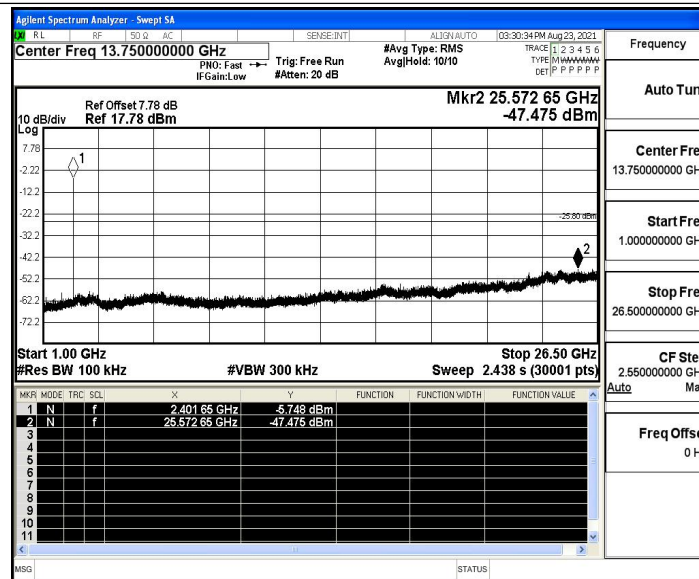
BLE_1M_Ant1_2402_0~Reference



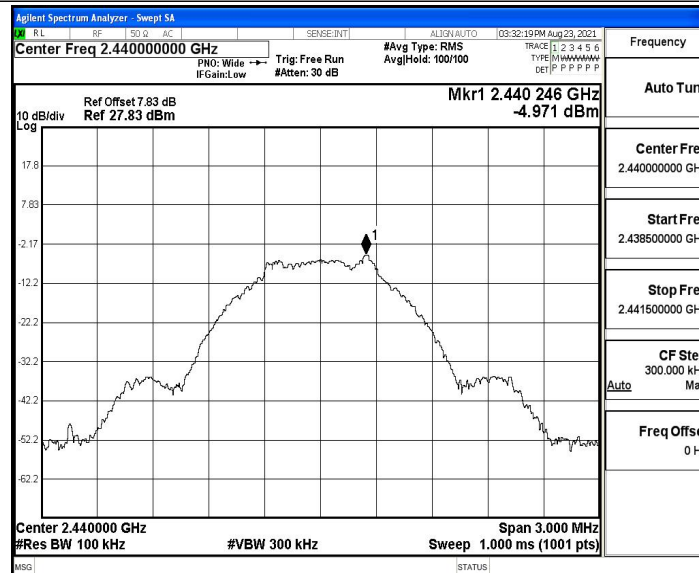
BLE_1M_Ant1_2402_30~1000



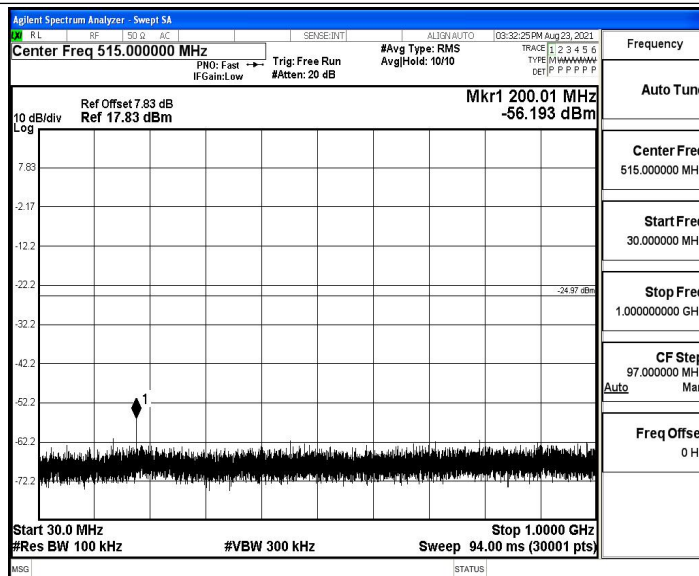
BLE_1M_Ant1_2402_1000~26500



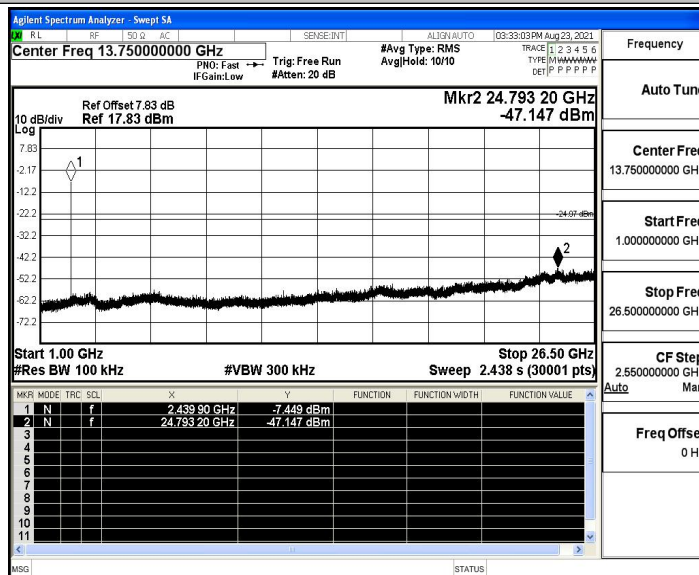
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference