



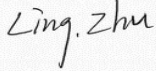

Appendix B

RF Test Data for BT LE V4.2 (DTS) (Conducted Measurement)

Product Name: Tablet

Test Model: 10WB2

Environmental Conditions

Temperature:	22.5°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan



B.1 DTS Bandwidth

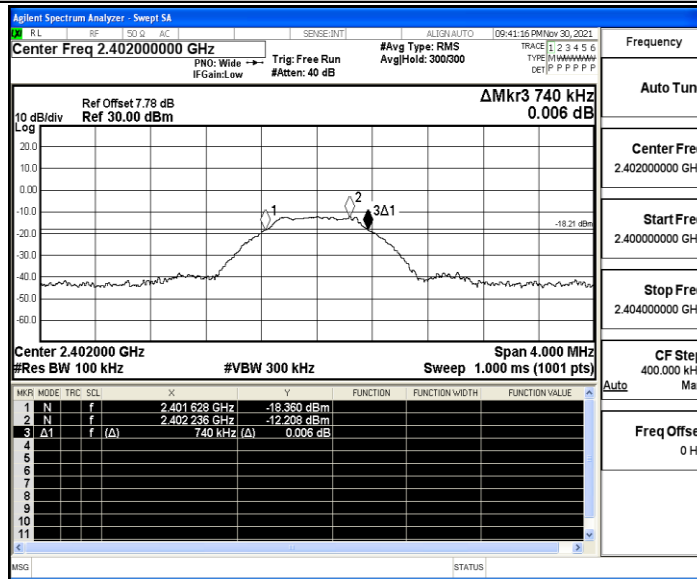
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.740	2401.628	2402.368	≥ 0.5	PASS
		2440	0.720	2439.640	2440.360	≥ 0.5	PASS
		2480	0.680	2479.664	2480.344	≥ 0.5	PASS

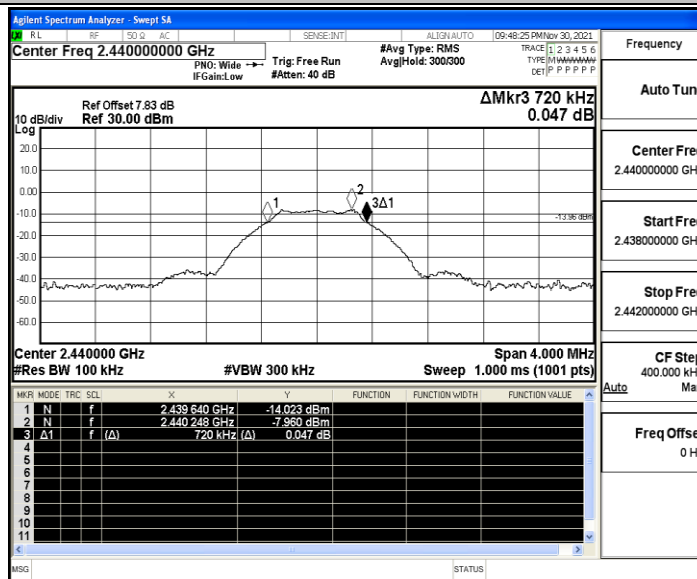


Test Graphs

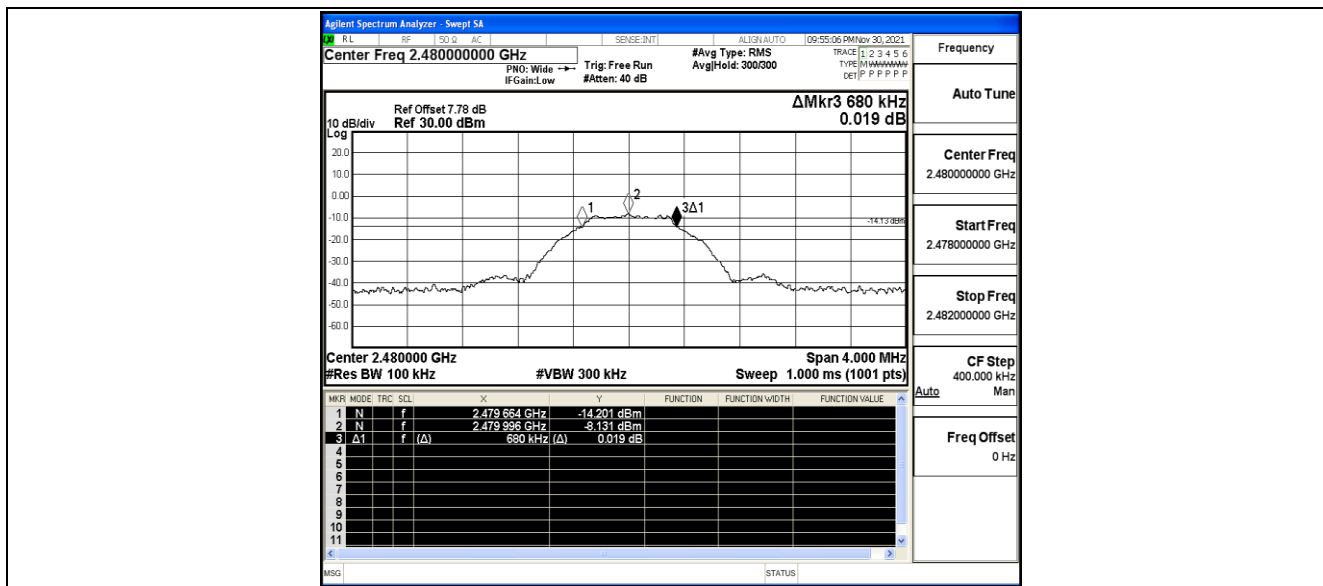
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.2 Maximum peak conducted output power

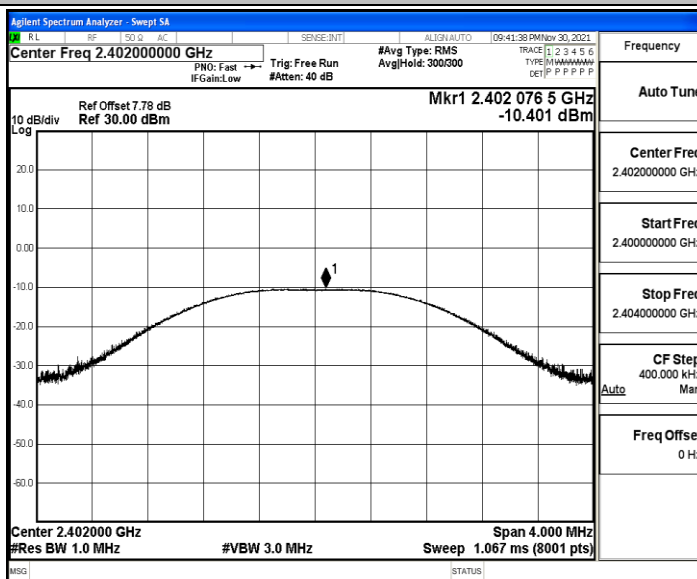
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-10.4	≤ 30	PASS
		2440	-6.68	≤ 30	PASS
		2480	-7.14	≤ 30	PASS

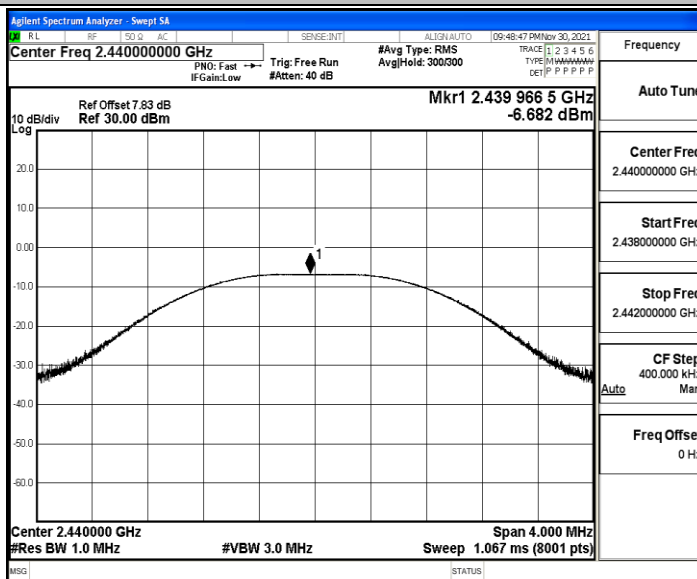


Test Graphs

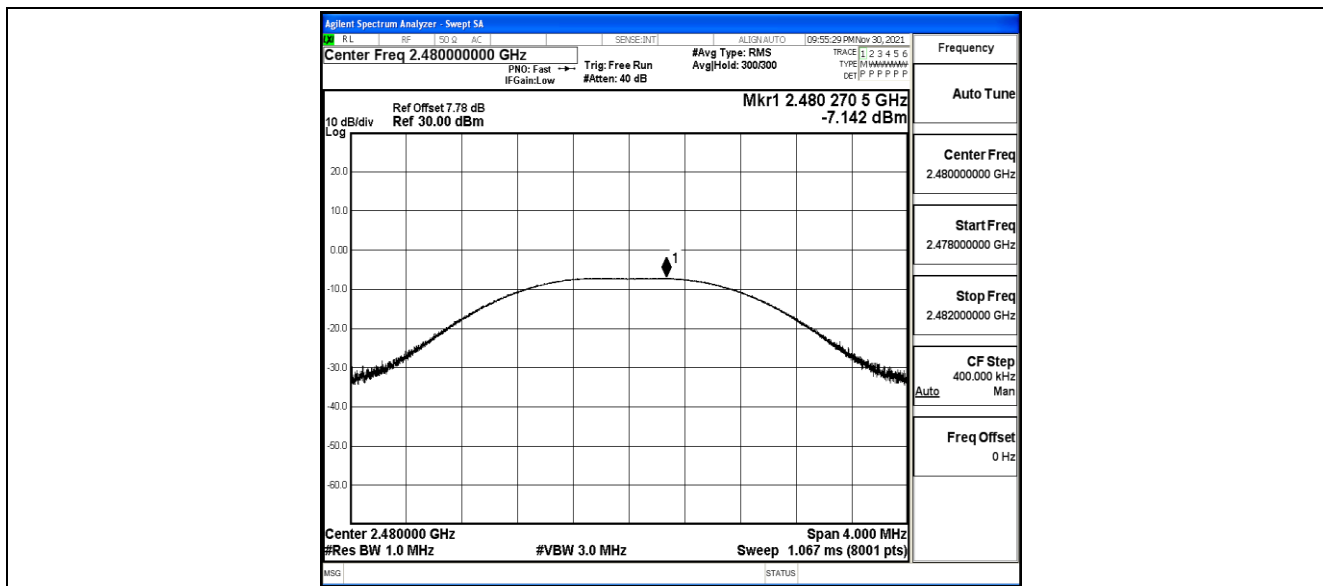
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.3 Maximum power spectral density

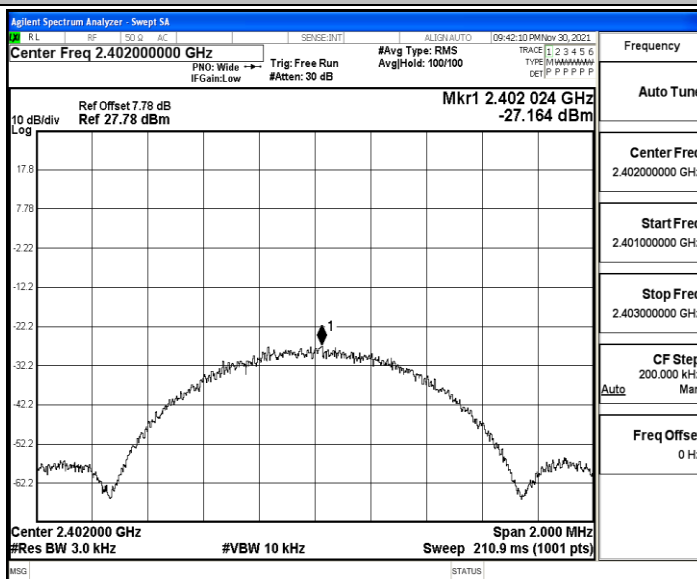
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-27.16	≤ 8	PASS
		2440	-23.2	≤ 8	PASS
		2480	-23.53	≤ 8	PASS

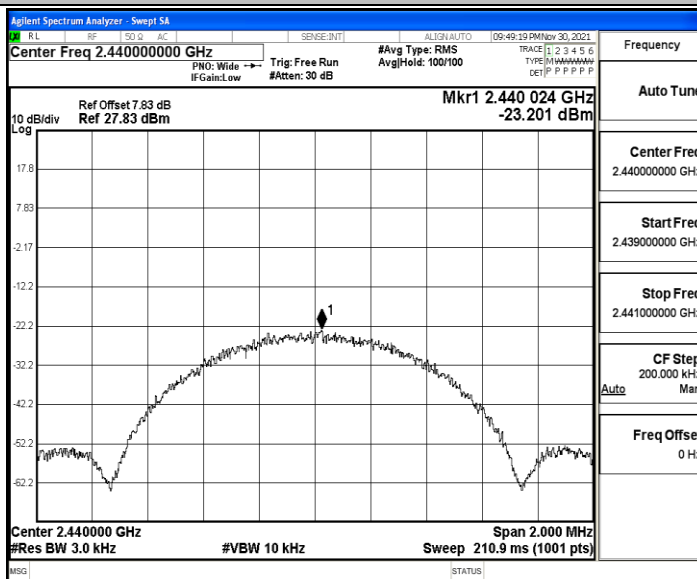


Test Graphs

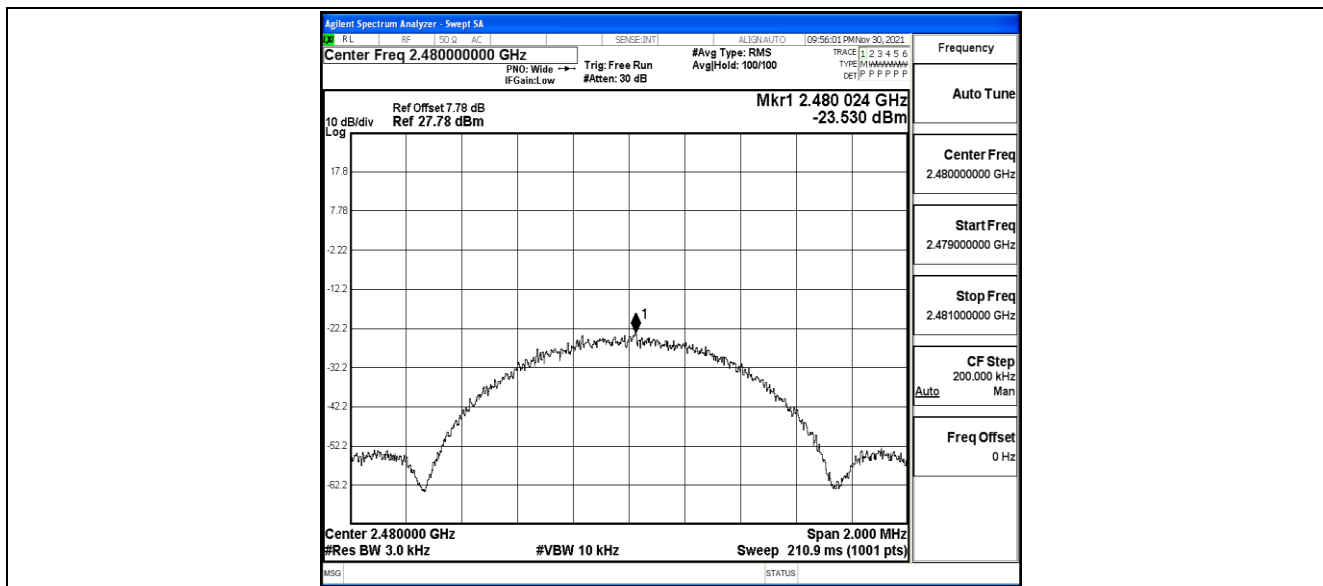
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.4 Band edge measurements

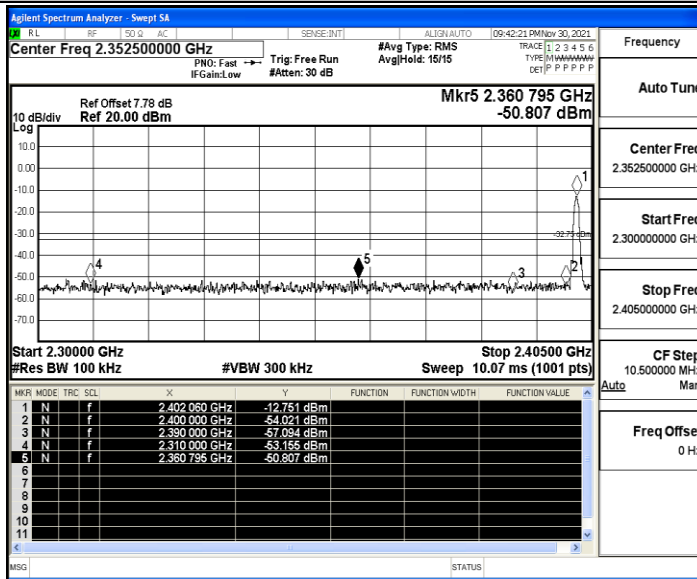
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-12.75	-50.81	≤ -32.75	PASS
		High	2480	-8.69	-49.42	≤ -28.69	PASS

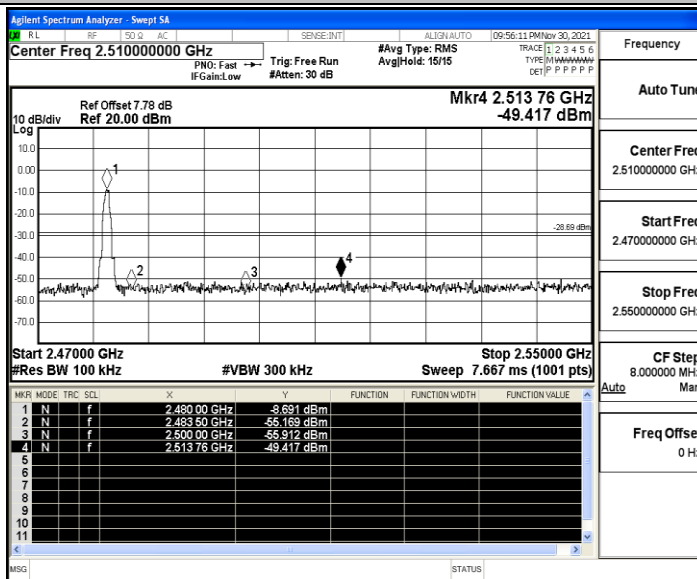


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





B.5 Conducted Spurious Emission

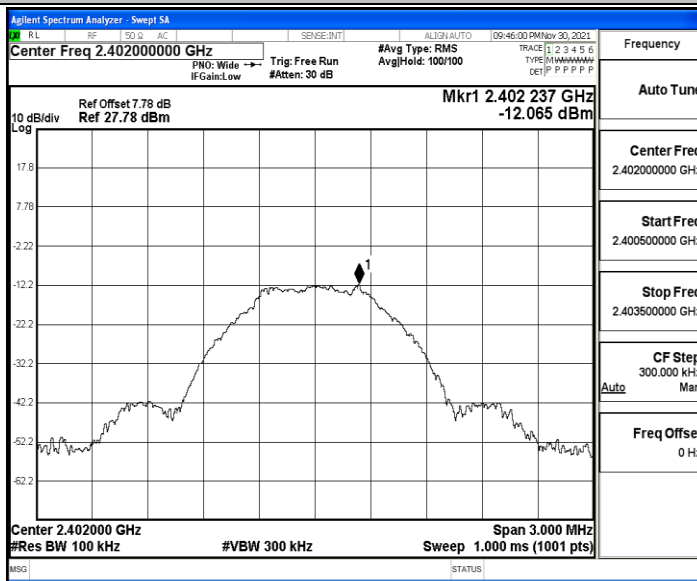
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-12.07	-12.07	---	PASS
			30~1000	-12.07	-61.58	≤ -32.07	PASS
			1000~26500	-12.07	-47	≤ -32.07	PASS
		2440	Reference	-7.33	-7.33	---	PASS
			30~1000	-7.33	-61.86	≤ -27.33	PASS
			1000~26500	-7.33	-47.01	≤ -27.33	PASS
		2480	Reference	-8.42	-8.42	---	PASS
			30~1000	-8.42	-61.86	≤ -28.42	PASS
			1000~26500	-8.42	-46.87	≤ -28.42	PASS

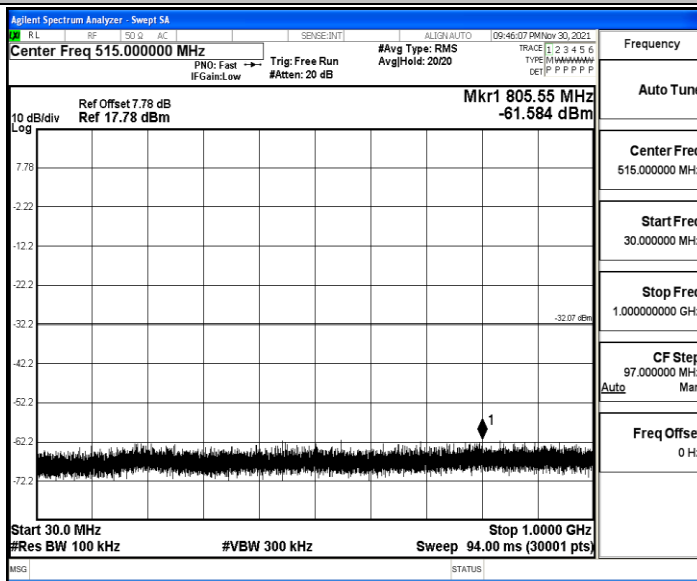


Test Graphs

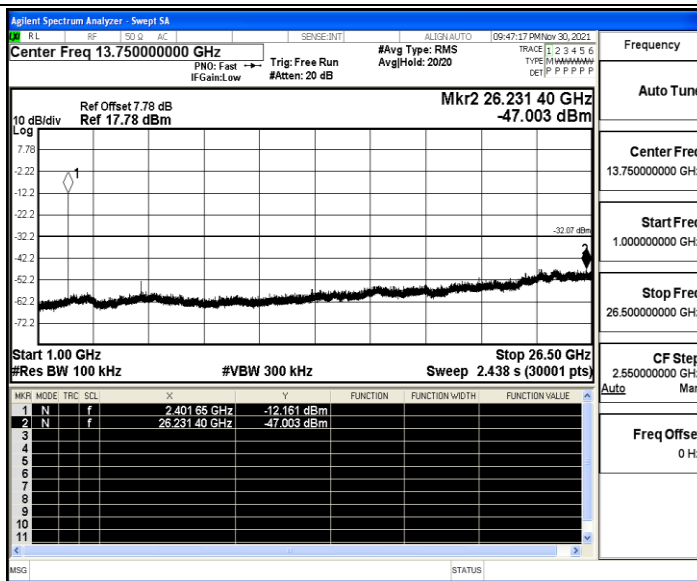
BLE_1M_Ant1_2402_0~Reference



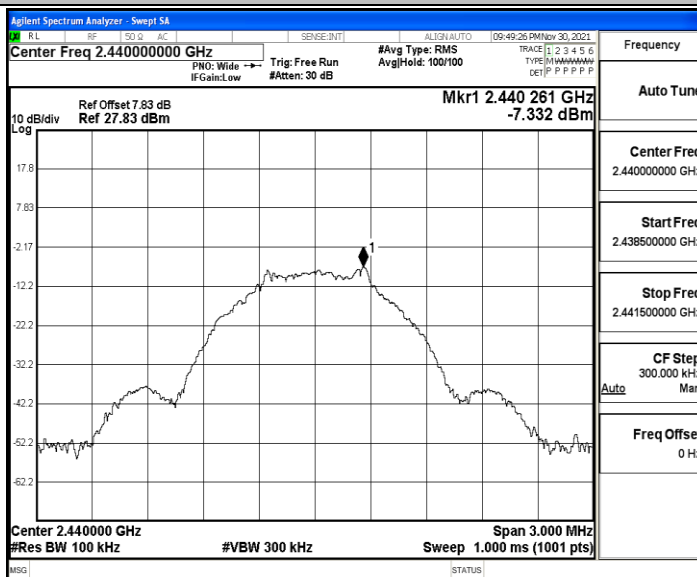
BLE_1M_Ant1_2402_30~1000



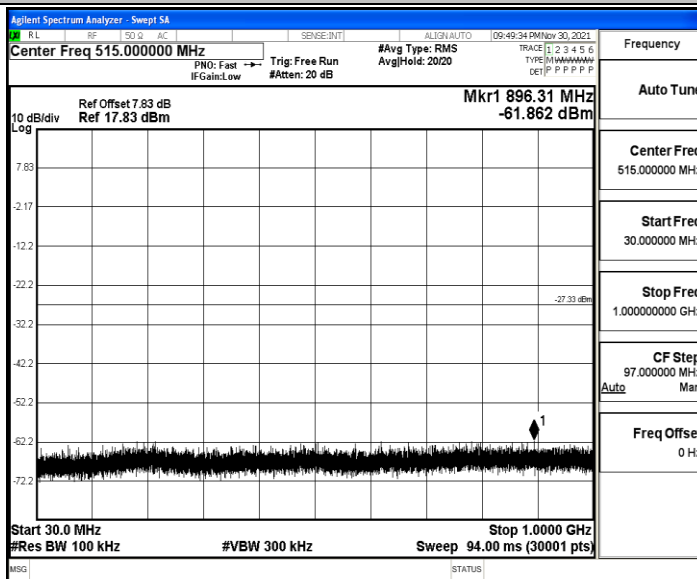
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

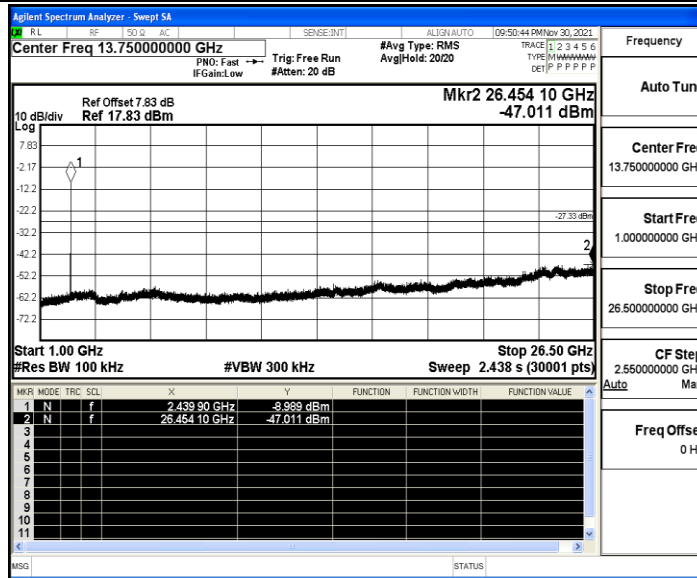


BLE_1M_Ant1_2440_30~1000

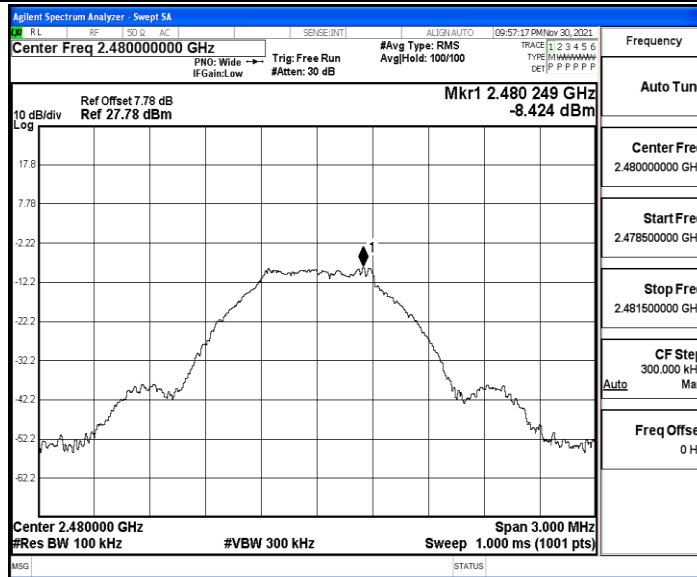




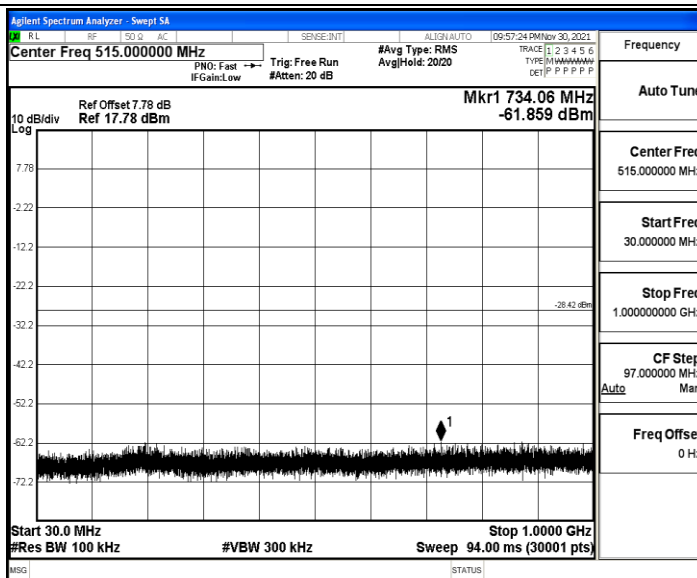
BLE_1M_Ant1_2440_1000~26500



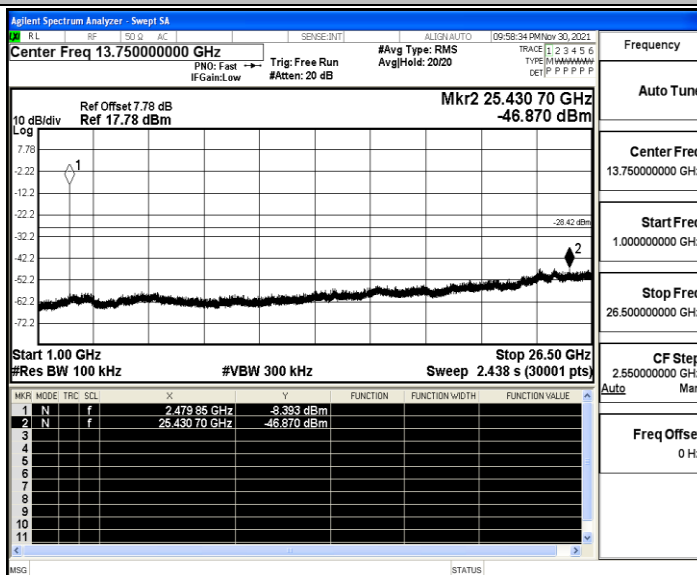
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2440	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2480	0.38	0.63	0.6032	60.32	2.20	---	PASS



B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.41	≤-41.20	45.79	≤54	PASS
				AV	2389.775	-49.04	≤-41.20	46.16	≤54	PASS
				AV	2390.000	-49.04	≤-41.20	46.16	≤54	PASS
				Peak	2310.000	-44.47	≤-21.20	50.73	≤74	PASS
				Peak	2357.645	-39.54	≤-21.20	55.66	≤74	PASS
				Peak	2390.000	-41.48	≤-21.20	53.72	≤74	PASS
		High	2480	AV	2483.500	-48.2	≤-41.20	47.00	≤54	PASS
				AV	2499.040	-47.86	≤-41.20	47.34	≤54	PASS
				AV	2500.000	-48.13	≤-41.20	47.07	≤54	PASS
				Peak	2483.500	-43.21	≤-21.20	51.99	≤74	PASS
				Peak	2491.120	-39.56	≤-21.20	55.64	≤74	PASS
				Peak	2500.000	-40.55	≤-21.20	54.65	≤74	PASS

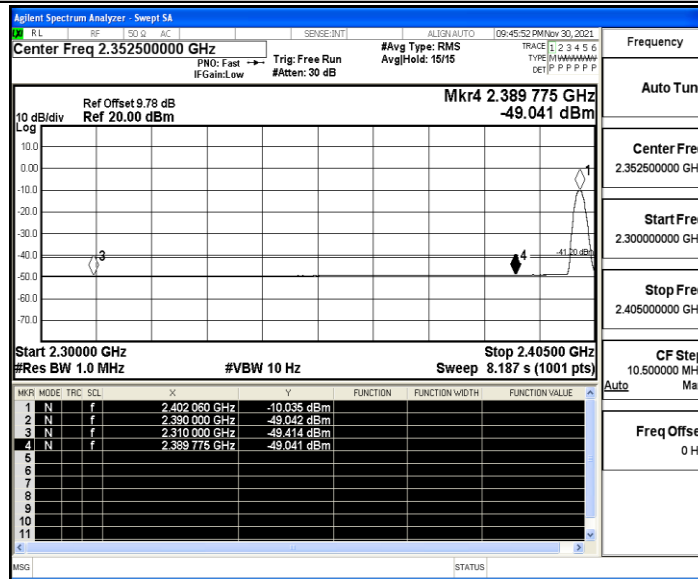
Note:

1. The Antenna Gain is compensated in the graph.
2. 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.

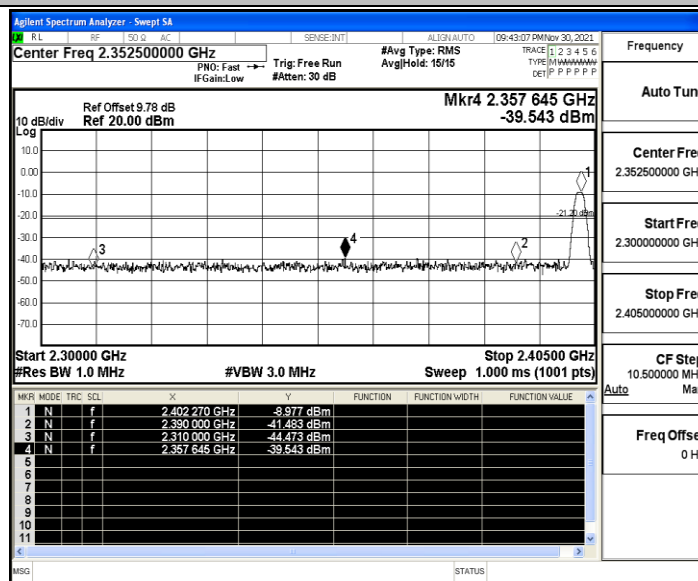


Test Graphs

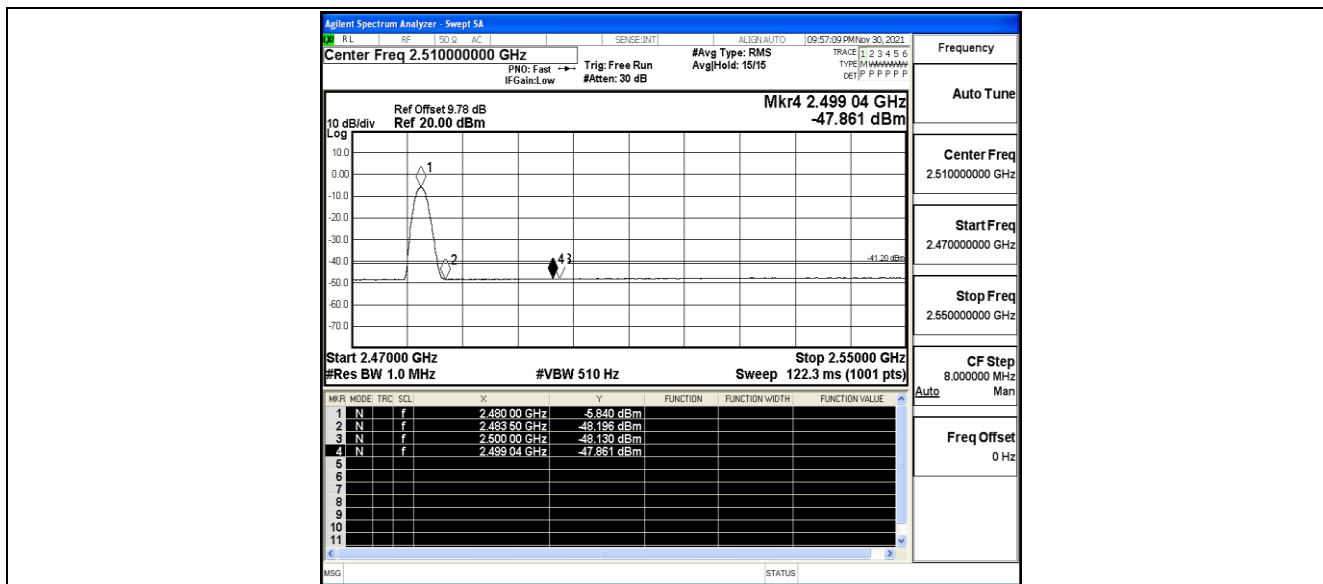
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

