



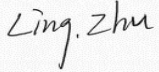
Appendix B

RF Test Data for BT LE V5.0 (DSS) (Conducted Measurement)

Product Name: Tablet

Test Model: 8WB1

Environmental Conditions

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



B.1 DTS Bandwidth

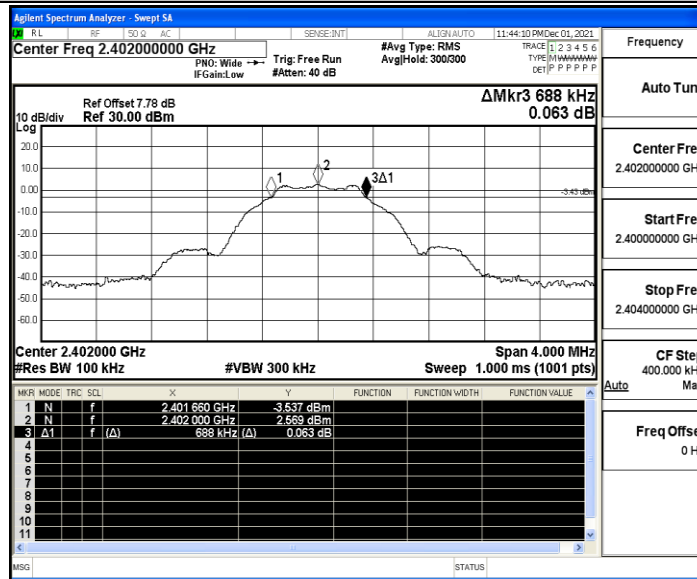
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.688	2401.660	2402.348	≥ 0.5	PASS
		2440	0.696	2439.644	2440.340	≥ 0.5	PASS
		2480	0.688	2479.664	2480.352	≥ 0.5	PASS

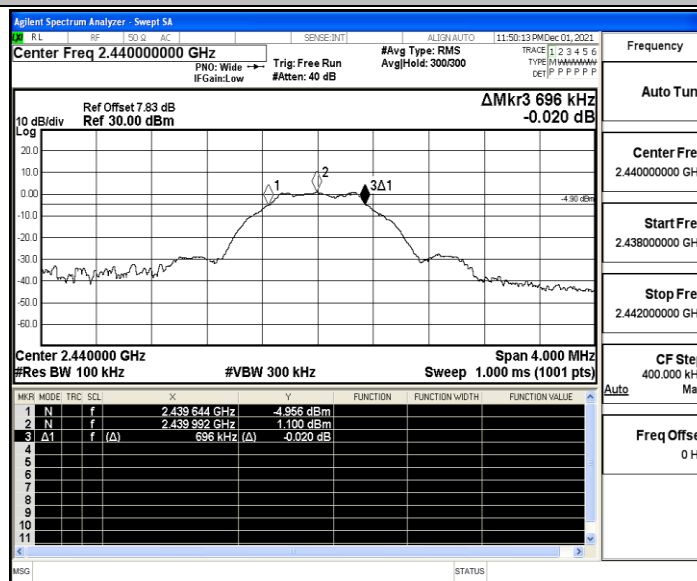


Test Graphs

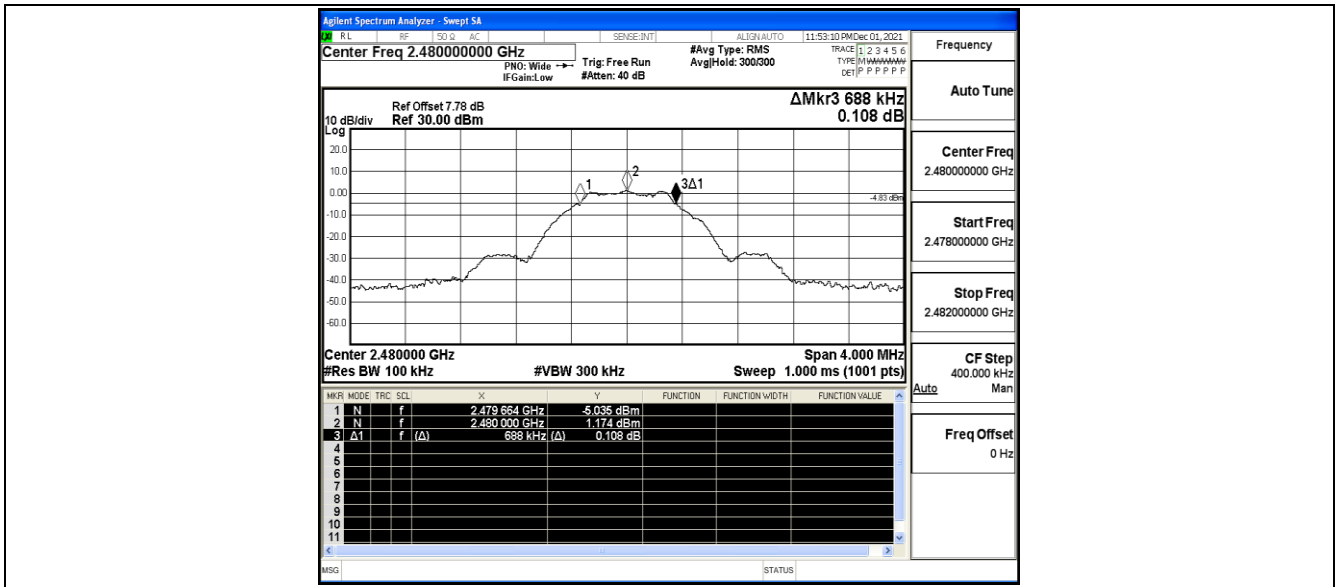
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.2 Maximum peak conducted output power

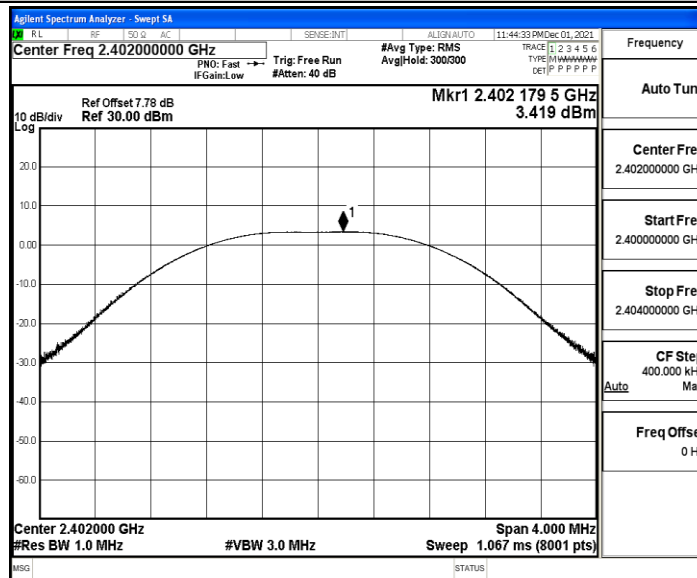
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.42	≤ 30	PASS
		2440	1.94	≤ 30	PASS
		2480	2.05	≤ 30	PASS

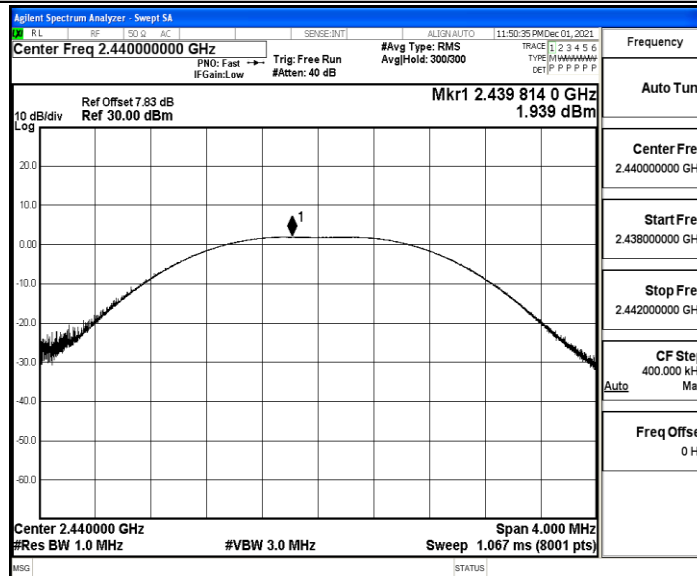


Test Graphs

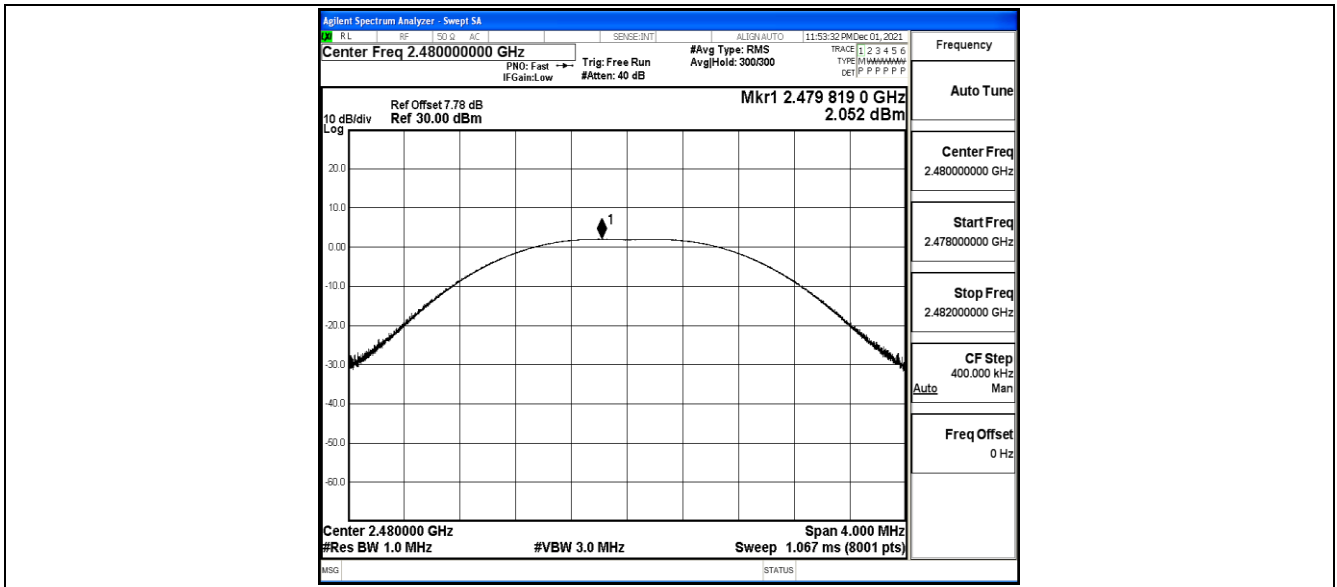
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.3 Maximum power spectral density

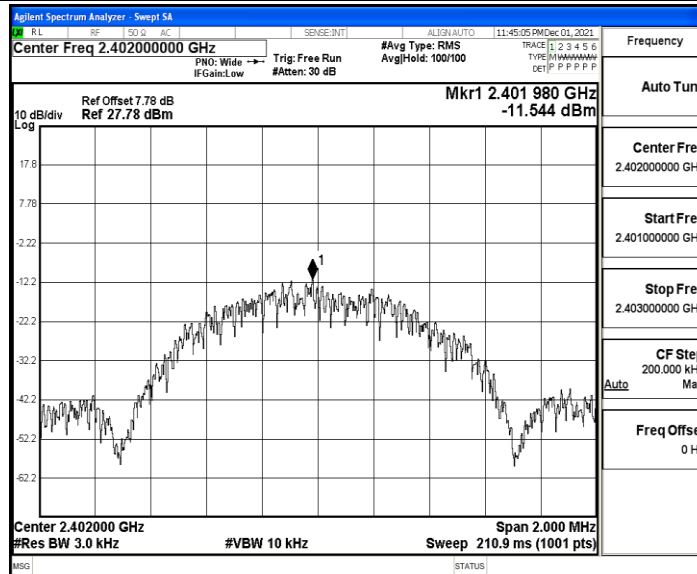
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.54	≤ 8	PASS
		2440	-13.14	≤ 8	PASS
		2480	-13.09	≤ 8	PASS

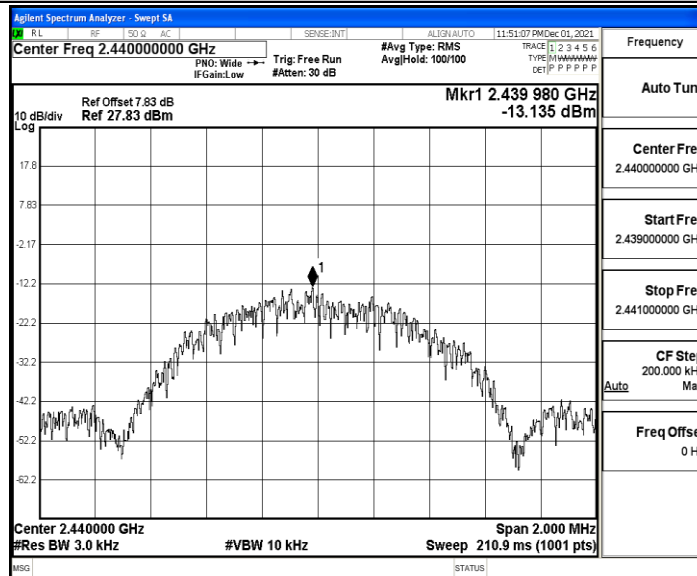


Test Graphs

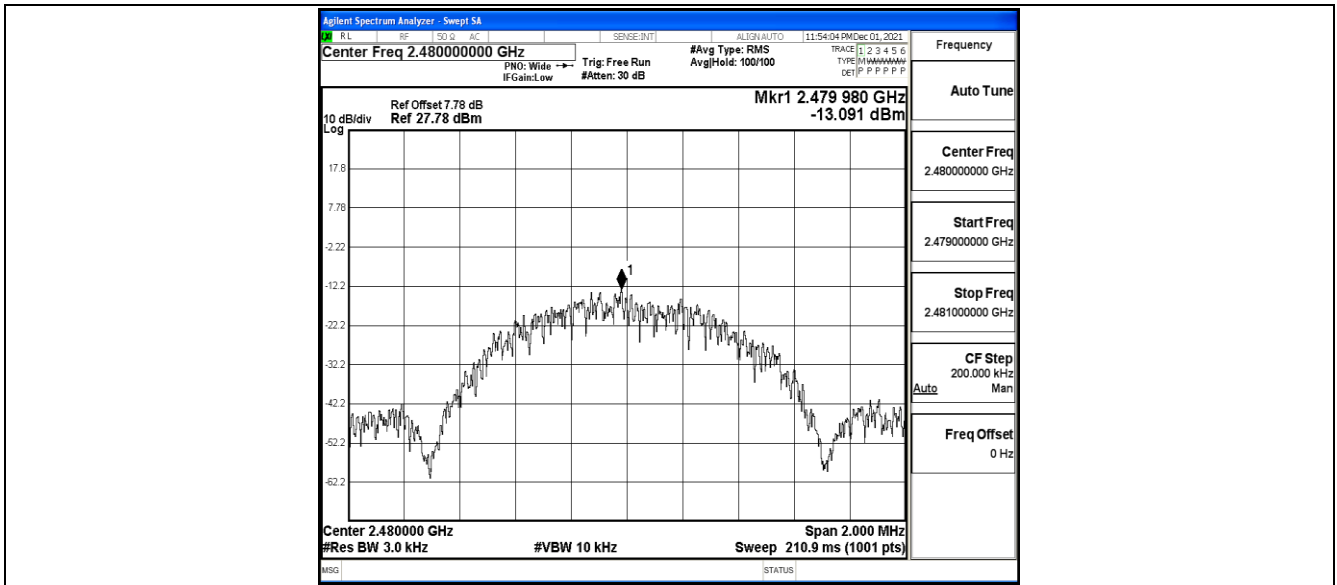
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.4 Band edge measurements

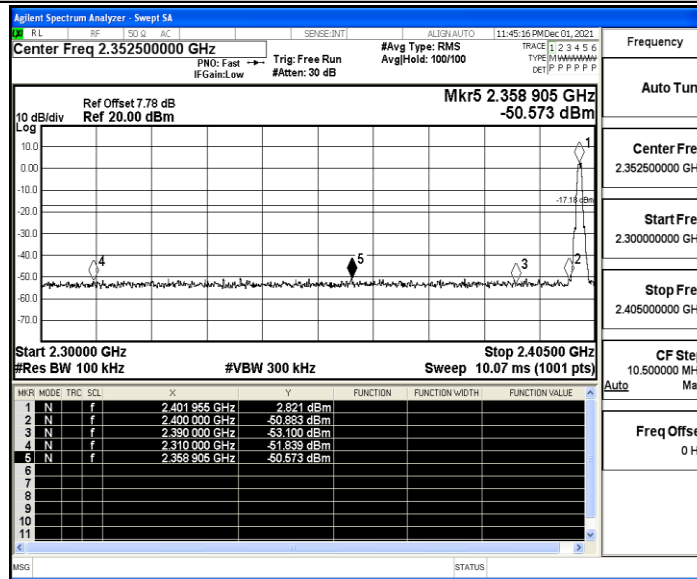
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.82	-50.57	≤ -17.18	PASS
		High	2480	1.27	-49.61	≤ -18.73	PASS

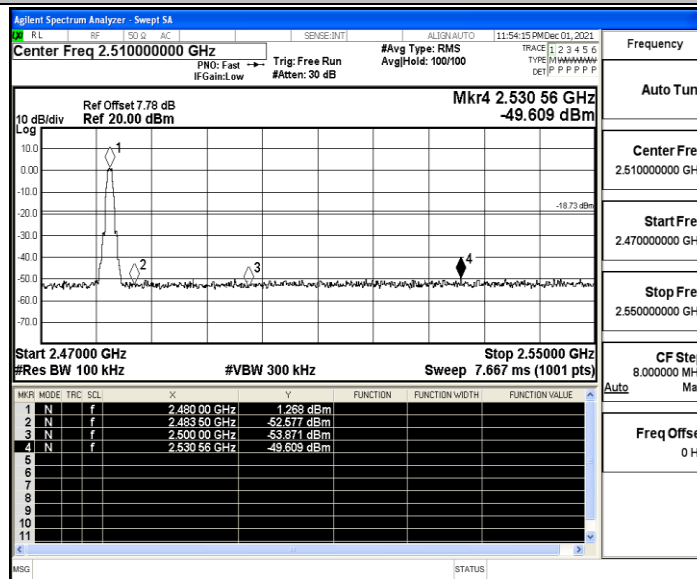


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





B.5 Conducted Spurious Emission

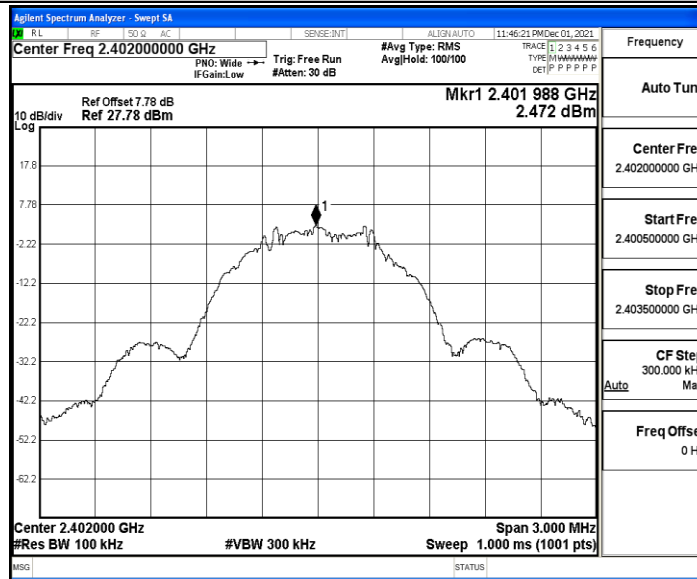
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.47	2.47	---	PASS
			30~1000	2.47	-62.02	≤ -17.53	PASS
			1000~26500	2.47	-46.34	≤ -17.53	PASS
		2440	Reference	1.00	1.00	---	PASS
			30~1000	1.00	-60.68	≤ -19	PASS
			1000~26500	1.00	-46.2	≤ -19	PASS
		2480	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-57.27	≤ -19	PASS
			1000~26500	1.01	-47.32	≤ -19	PASS

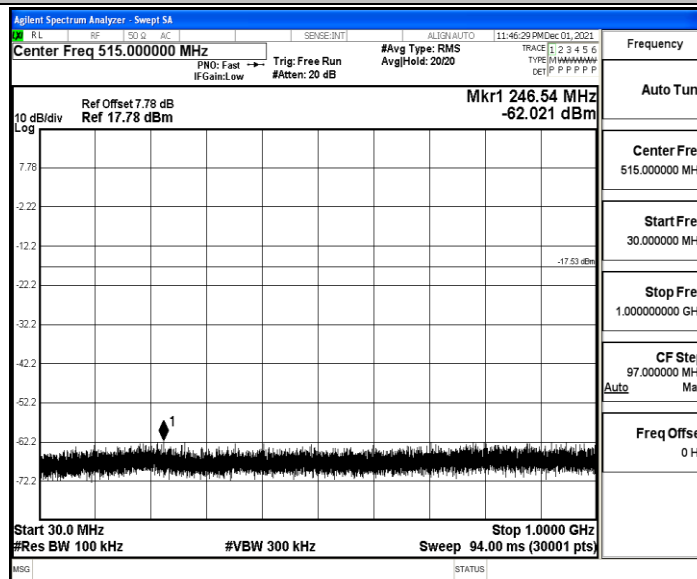


Test Graphs

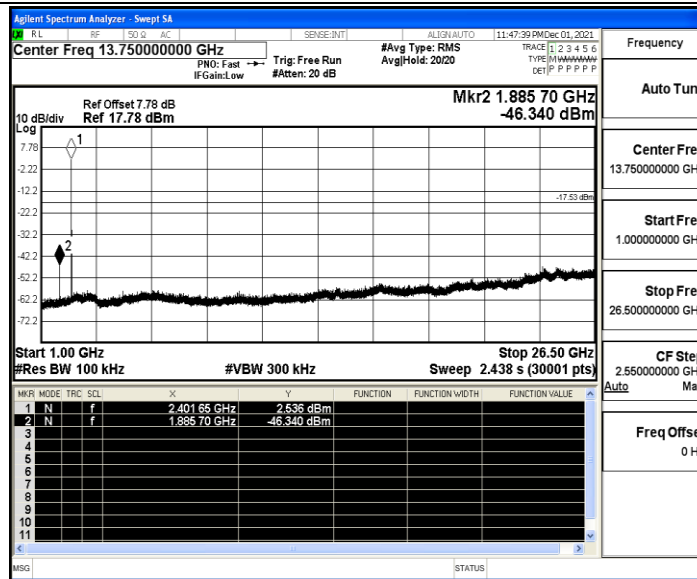
BLE_1M_Ant1_2402_0~Reference



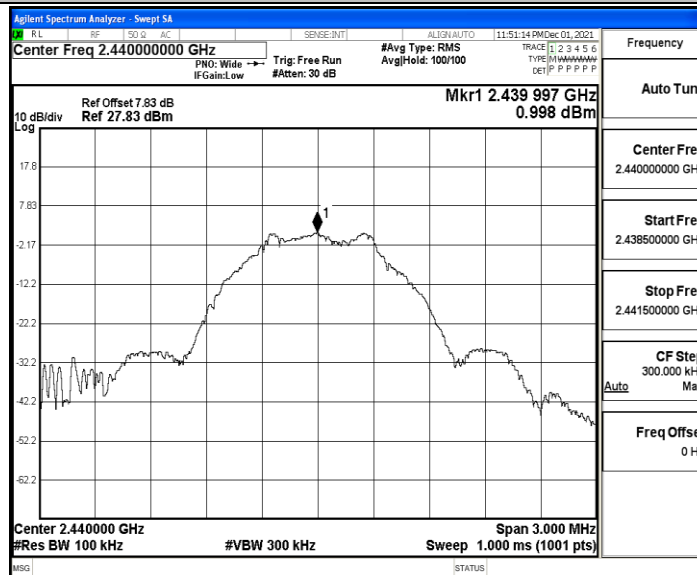
BLE_1M_Ant1_2402_30~1000



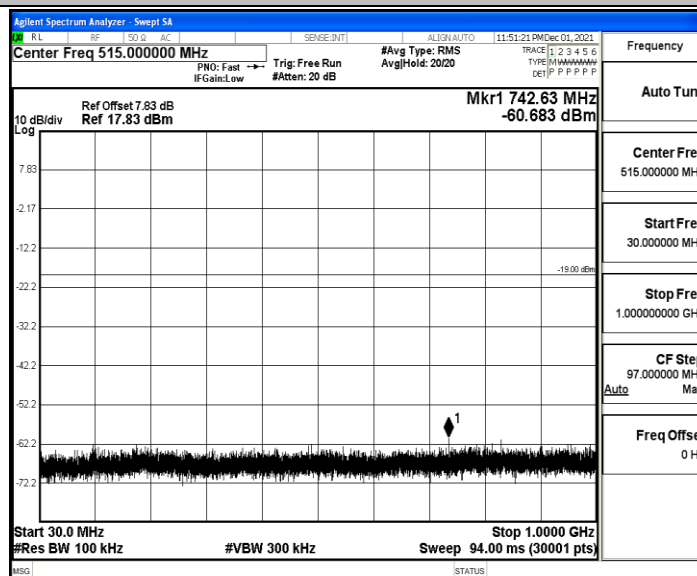
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

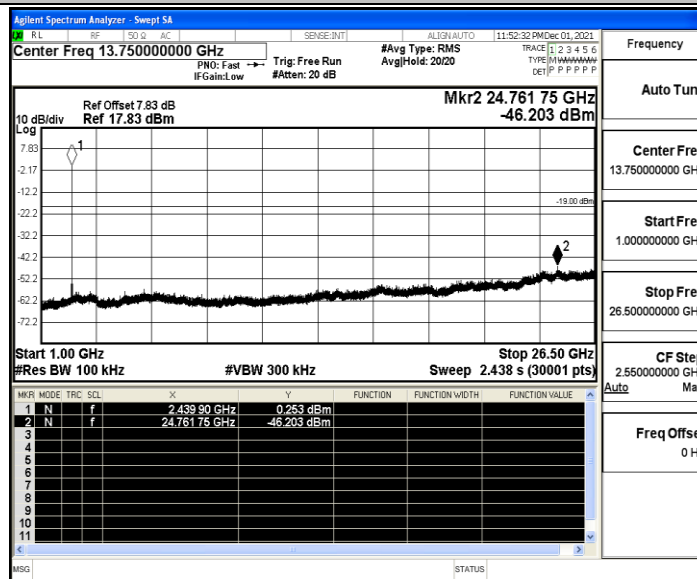


BLE_1M_Ant1_2440_30~1000

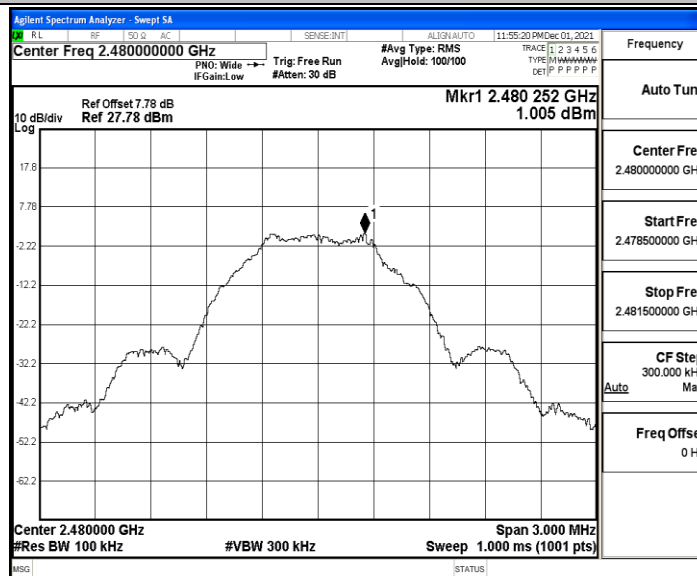




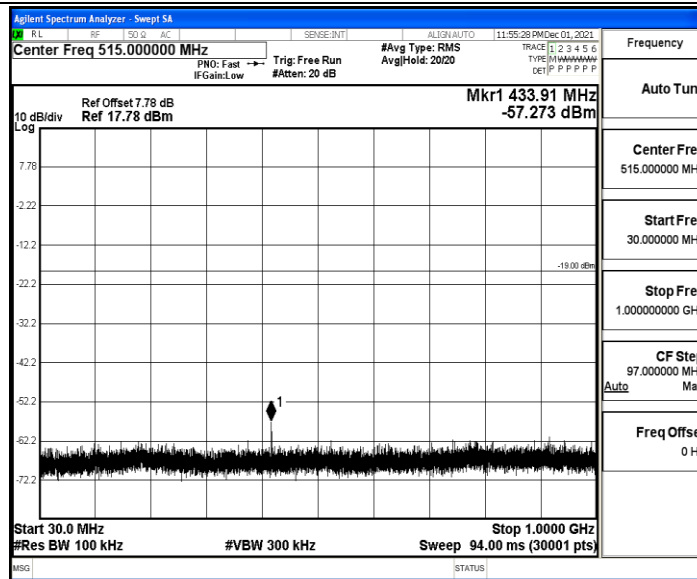
BLE_1M_Ant1_2440_1000~26500



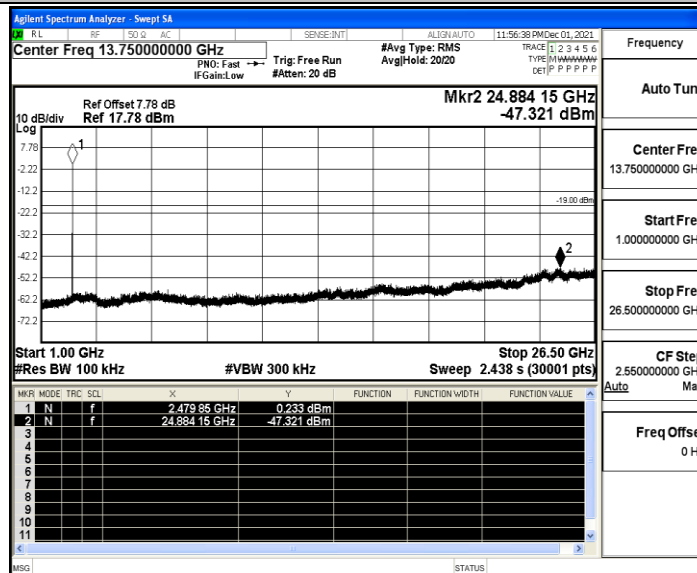
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





B.6 Duty Cycle

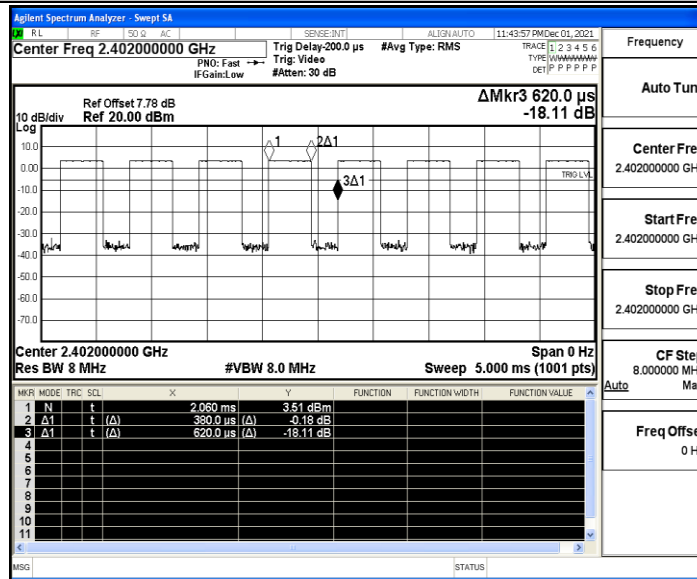
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	---	PASS
		2440	0.38	0.62	0.6129	61.29	2.13	---	PASS
		2480	0.39	0.63	0.6190	61.90	2.08	---	PASS

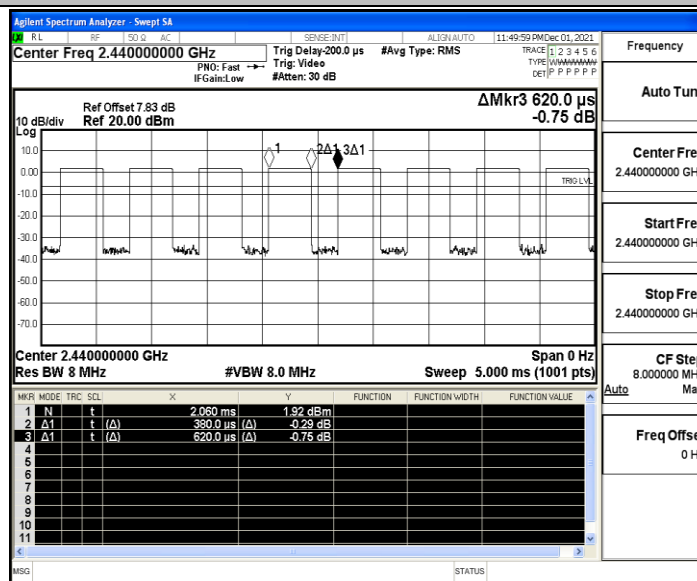


Test Graphs

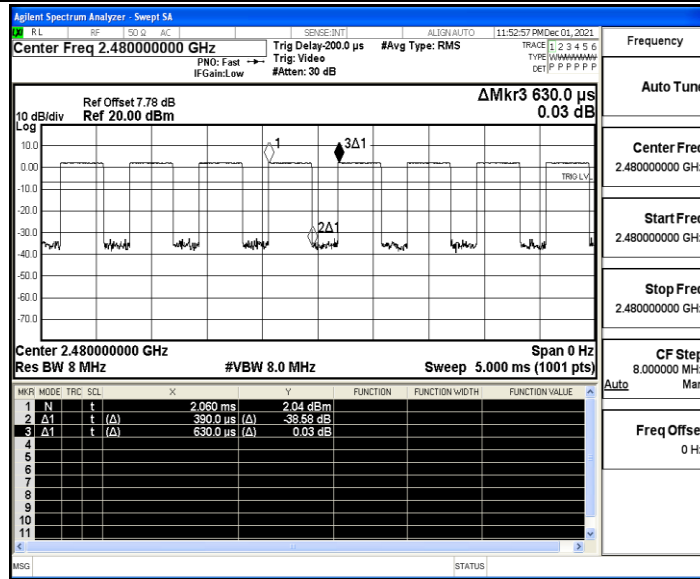
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





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	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2372.660	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2390.000	-48.26	≤-41.20	46.94	≤54	PASS
				Peak	2310.000	-43.19	≤-21.20	52.01	≤74	PASS
				Peak	2361.950	-39.13	≤-21.20	56.07	≤74	PASS
				Peak	2390.000	-42.4	≤-21.20	52.80	≤74	PASS
		High	2480	AV	2483.500	-47.32	≤-41.20	47.88	≤54	PASS
				AV	2499.440	-47.15	≤-41.20	48.05	≤54	PASS
				AV	2500.000	-47.83	≤-41.20	47.37	≤54	PASS
				Peak	2483.500	-40.7	≤-21.20	54.50	≤74	PASS
				Peak	2485.040	-38.31	≤-21.20	56.89	≤74	PASS
				Peak	2500.000	-39.96	≤-21.20	55.24	≤74	PASS

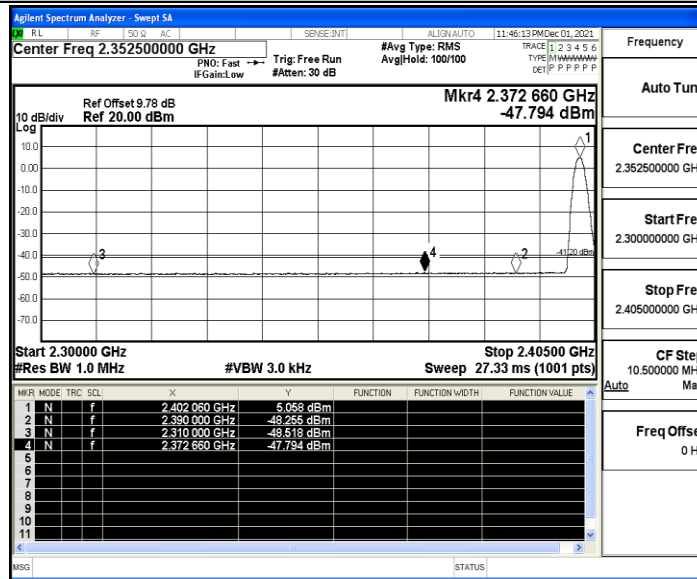
Note:

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.

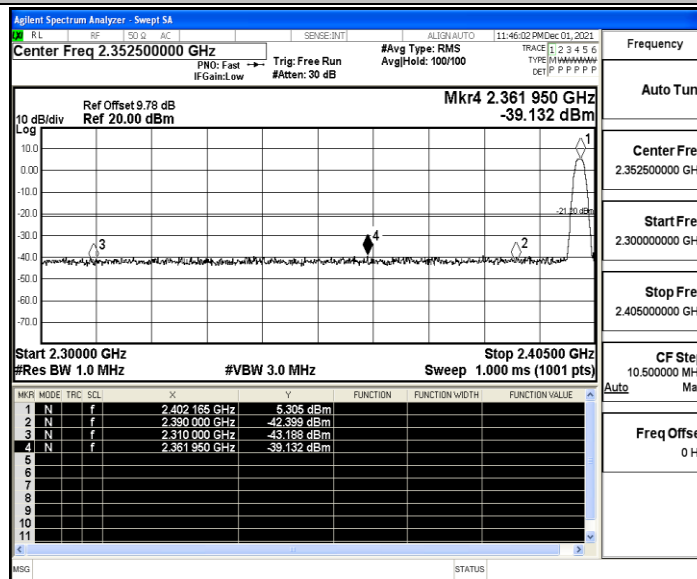


Test Graphs

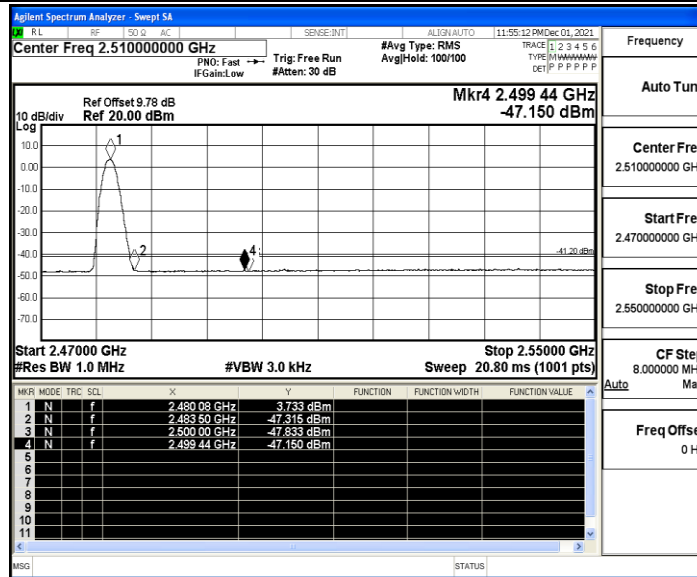
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

