



Appendix B

RF Test Data for BT LE V4.1 (DTS) (Conducted Measurement)

Product Name: TABLET PC

Test Model: GACRUX

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Monkey Li
Supervised by:	 Li Huan



B.1 DTS Bandwidth

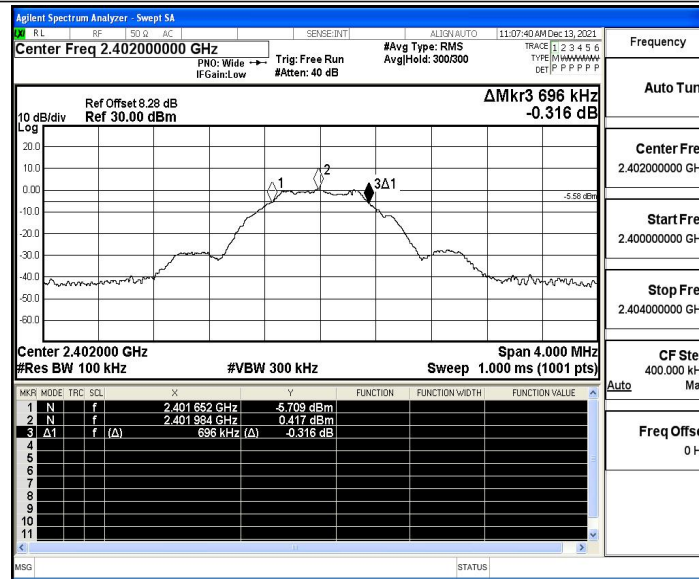
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.652	2402.348	≥0.5	PASS
		2440	0.672	2439.660	2440.332	≥0.5	PASS
		2480	0.668	2479.664	2480.332	≥0.5	PASS

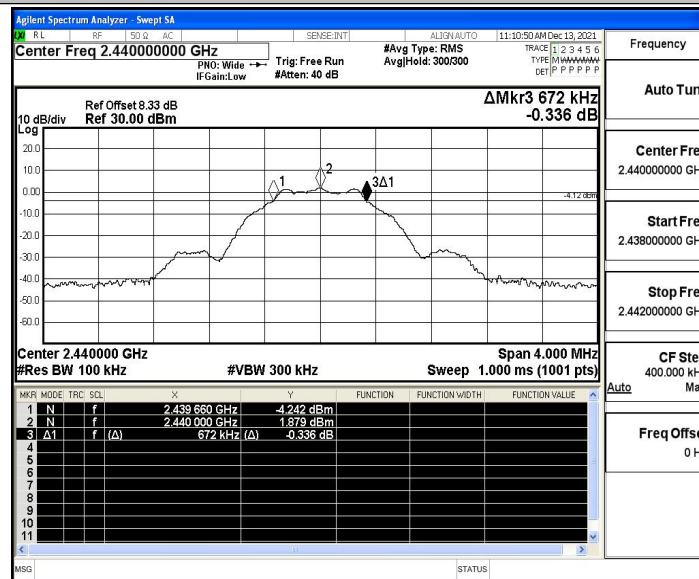


Test Graphs

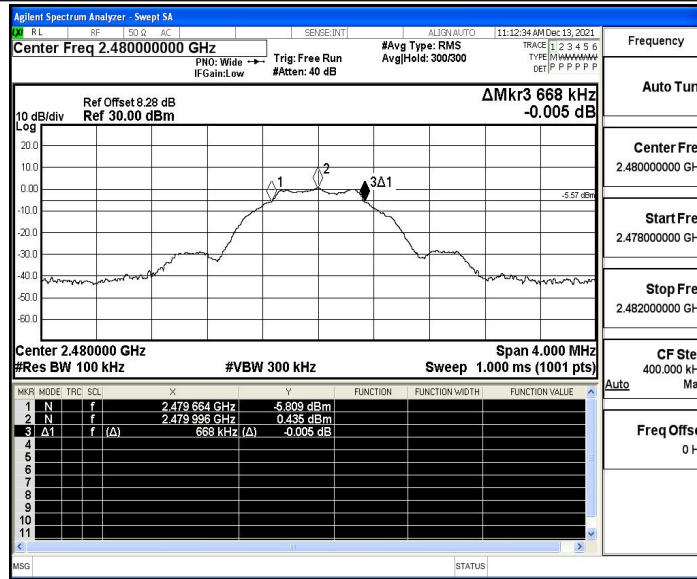
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.2 Maximum peak conducted output power

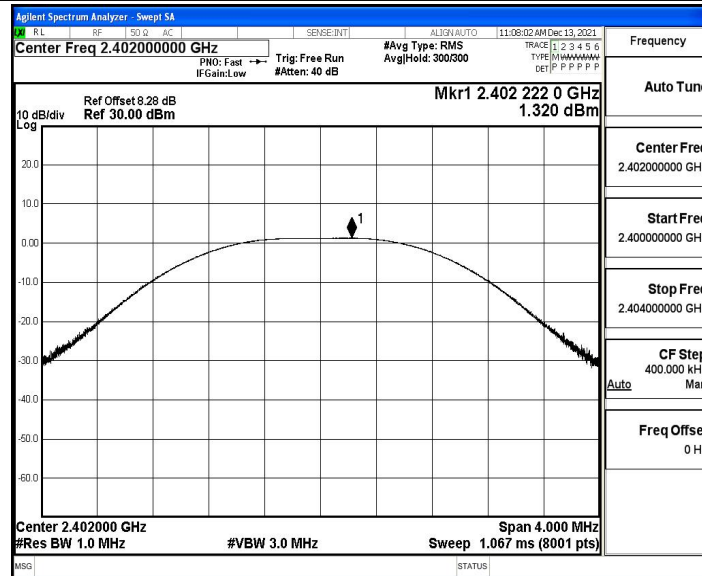
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.32	≤30	PASS
		2440	2.47	≤30	PASS
		2480	1.05	≤30	PASS

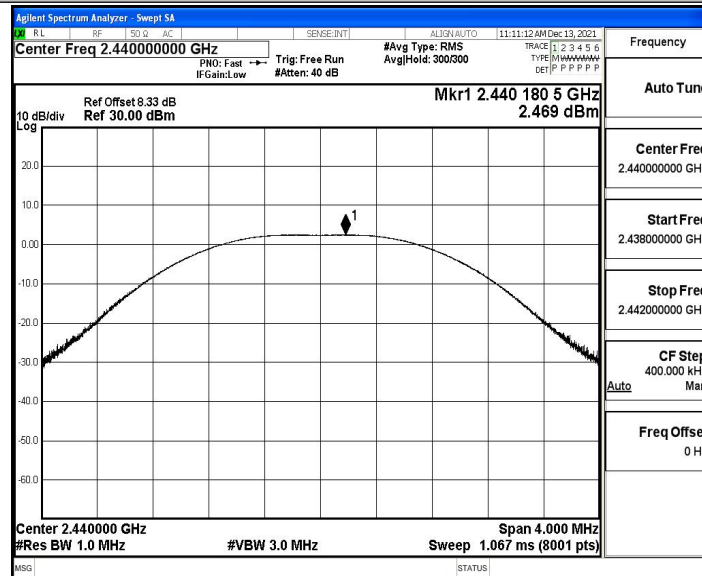


Test Graphs

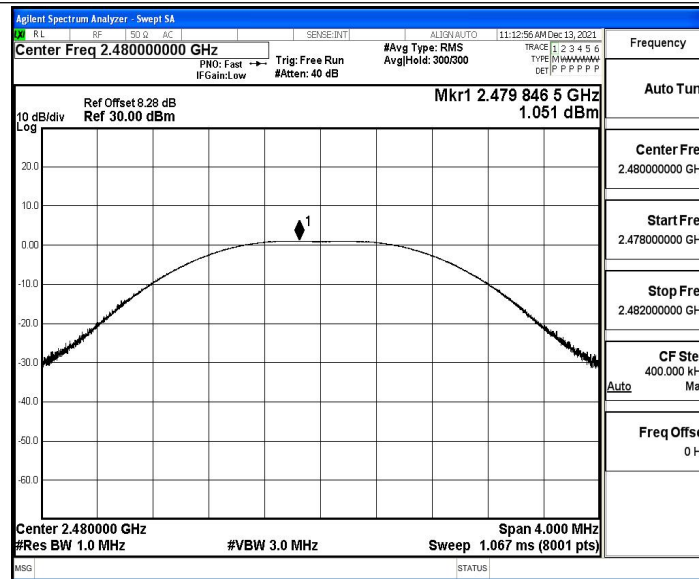
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



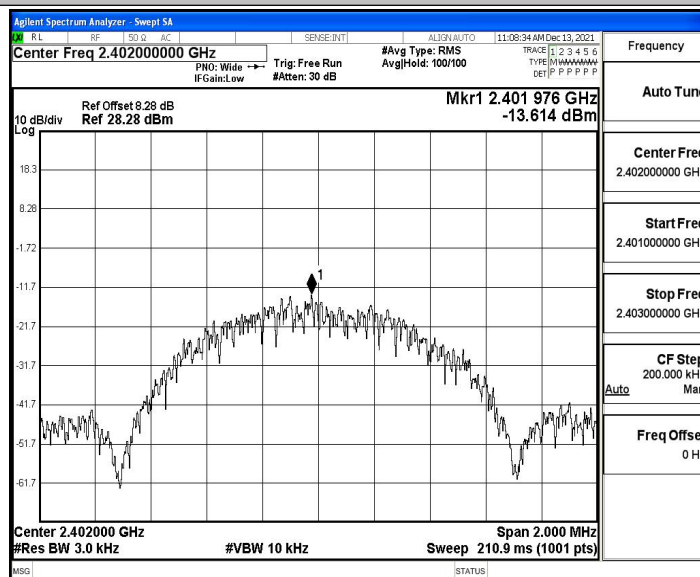


B.3 Maximum power spectral density

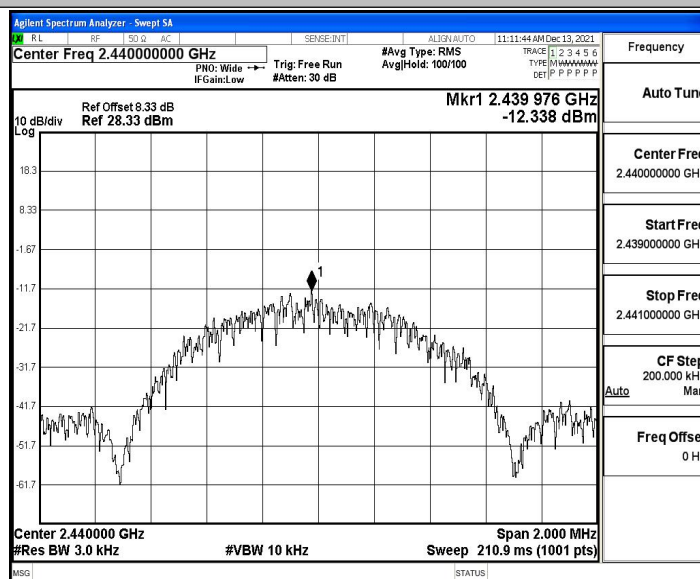
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.61	≤8	PASS
		2440	-12.34	≤8	PASS
		2480	-13.77	≤8	PASS

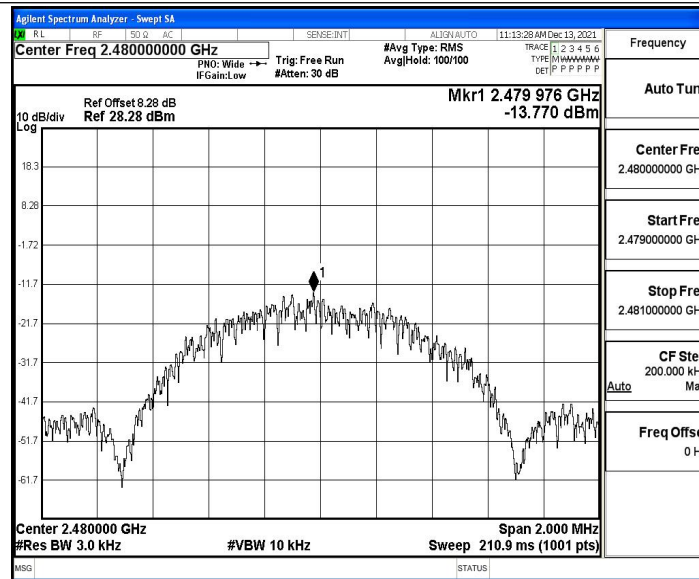
BLE_1M_Ant1_2402



BLE	1M	Ant1	2440
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BLE 1M Ant1 2480





B.4 Band edge measurements

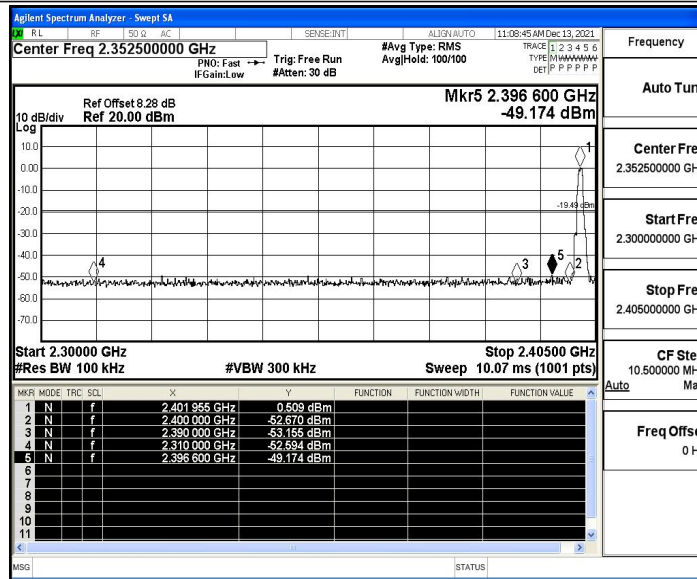
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.51	-49.17	≤-19.49	PASS
		High	2480	0.54	-48.3	≤-19.46	PASS

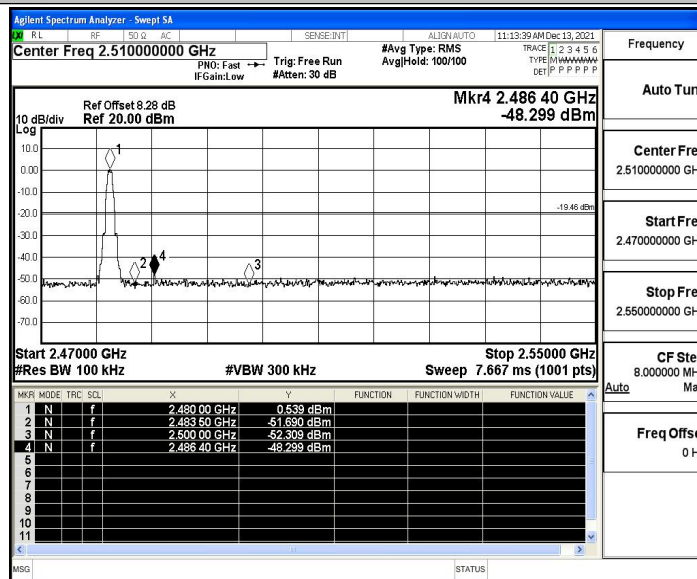


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





B.5 Conducted Spurious Emission

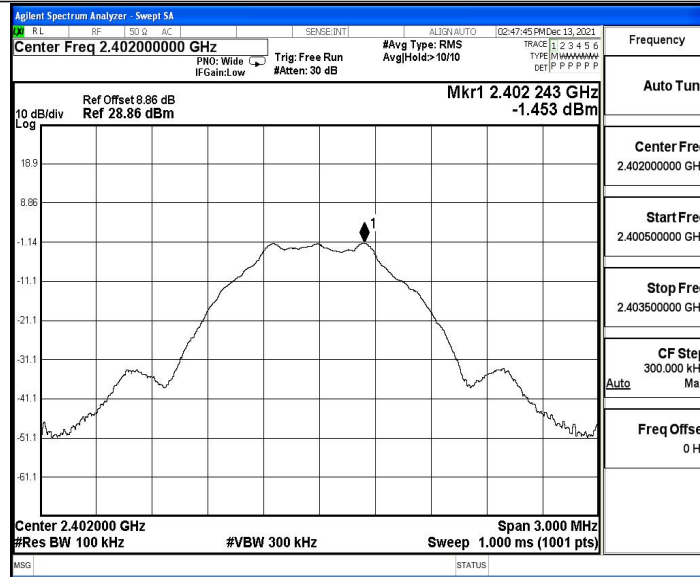
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-60.17	≤ -21.45	PASS
			1000~26500	-1.45	-44.7	≤ -21.45	PASS
		2440	Reference	-0.98	-0.98	---	PASS
			30~1000	-0.98	-60.57	≤ -20.98	PASS
			1000~26500	-0.98	-46.21	≤ -20.98	PASS
		2480	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-60.29	≤ -21.11	PASS
			1000~26500	-1.11	-45.71	≤ -21.11	PASS

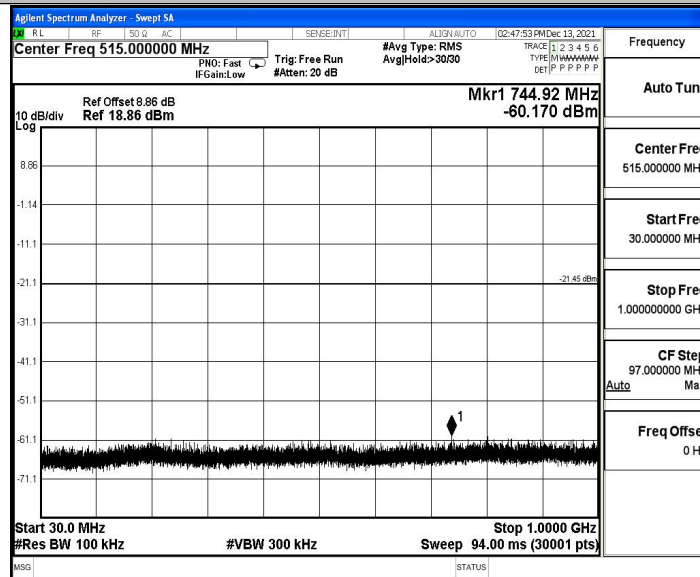


Test Graphs

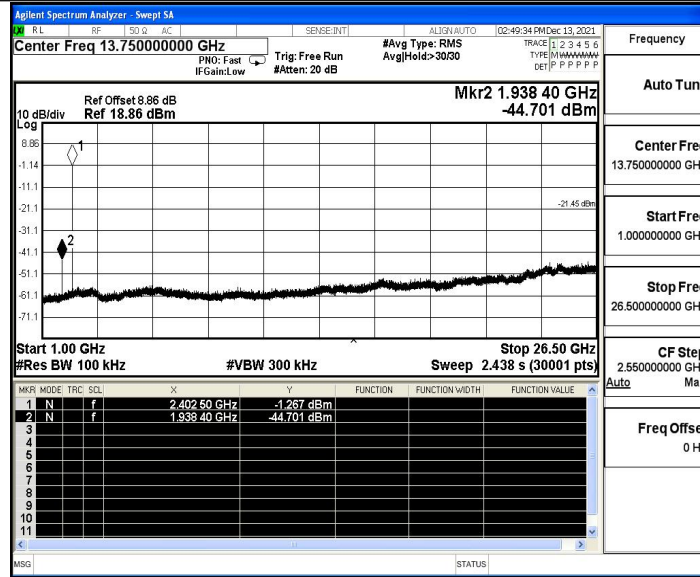
BLE_1M_Ant1_2402_0~Reference



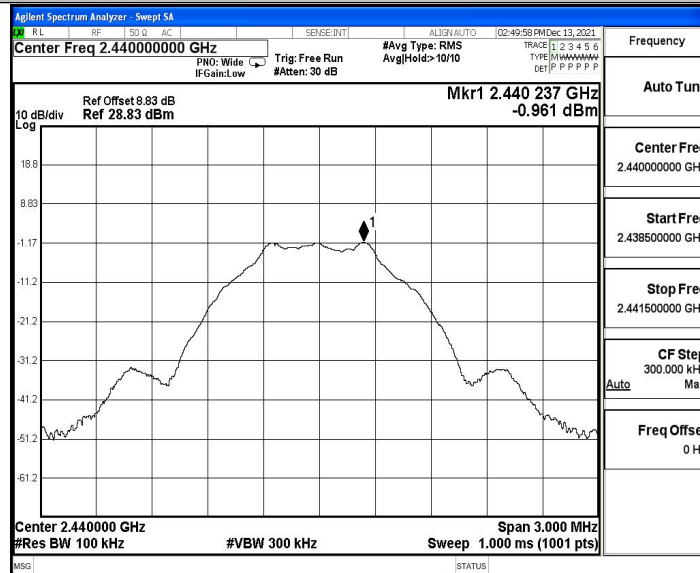
BLE_1M_Ant1_2402_30~1000



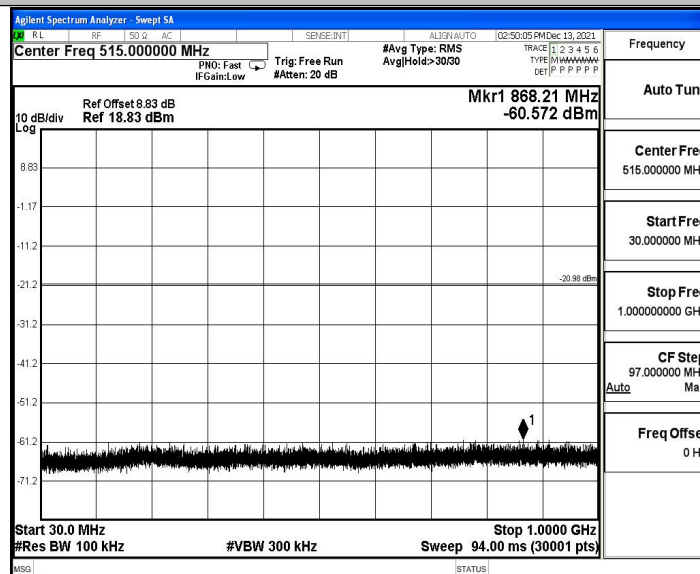
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

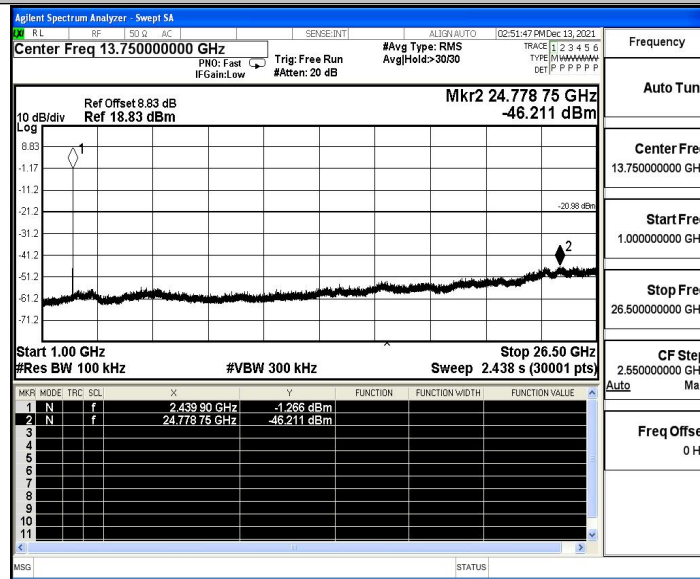


BLE_1M_Ant1_2440_30~1000

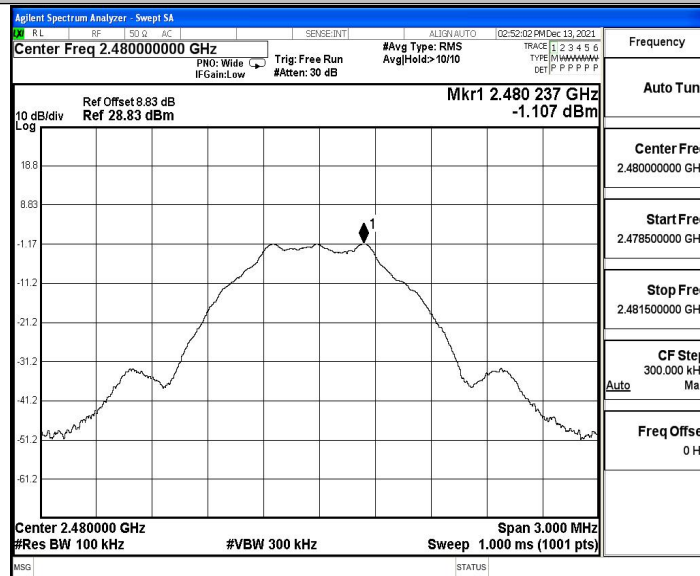




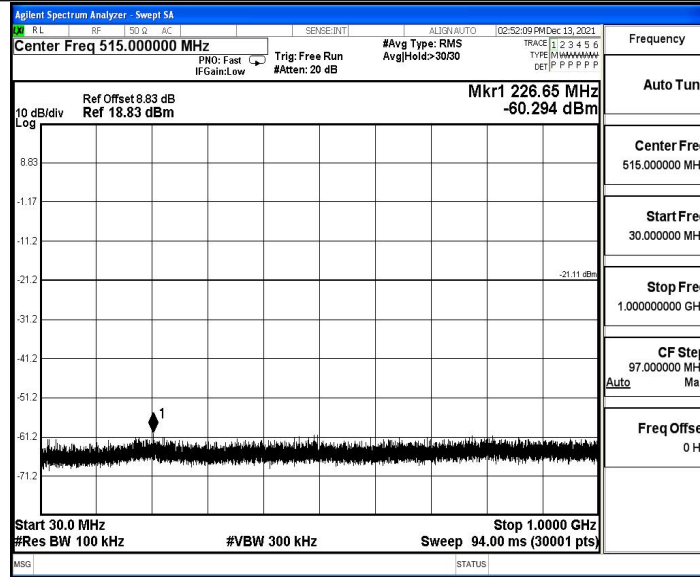
BLE_1M_Ant1_2440_1000~26500



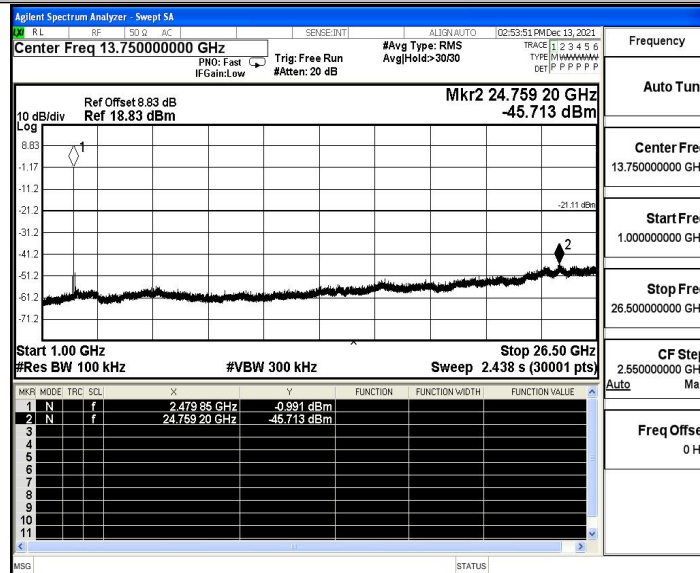
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





B.6 Duty Cycle

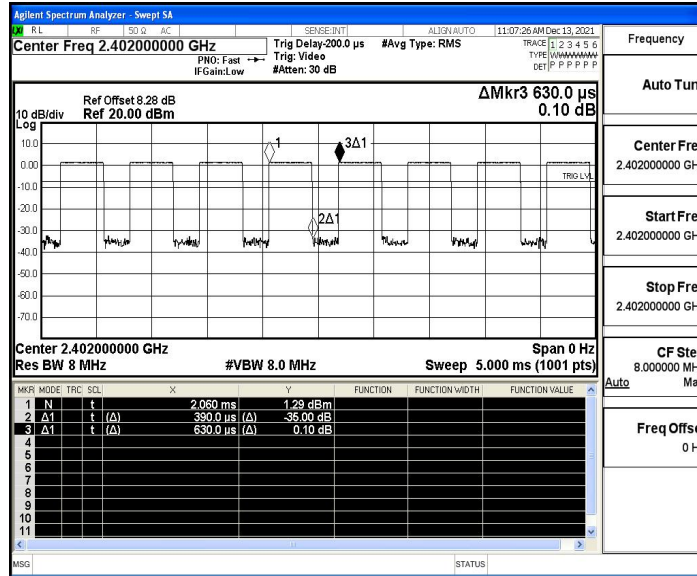
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T[KHz]	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	2.56	PASS
		2440	0.39	0.63	0.6190	61.90	2.08	2.56	PASS
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	PASS

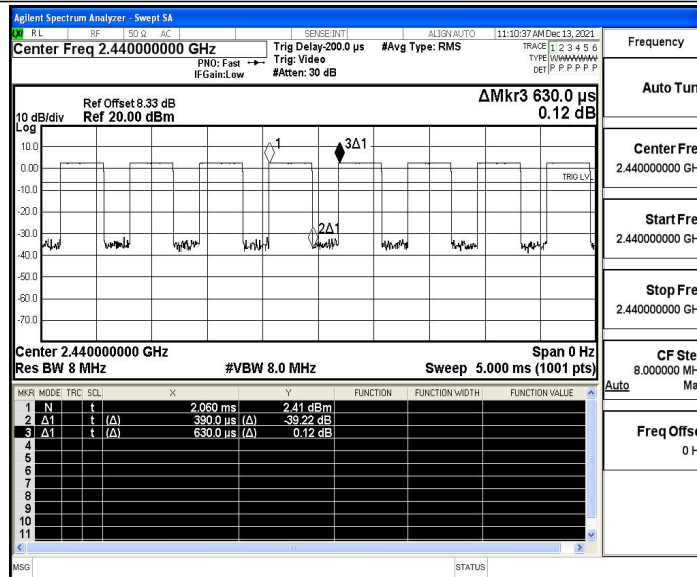


Test Graphs

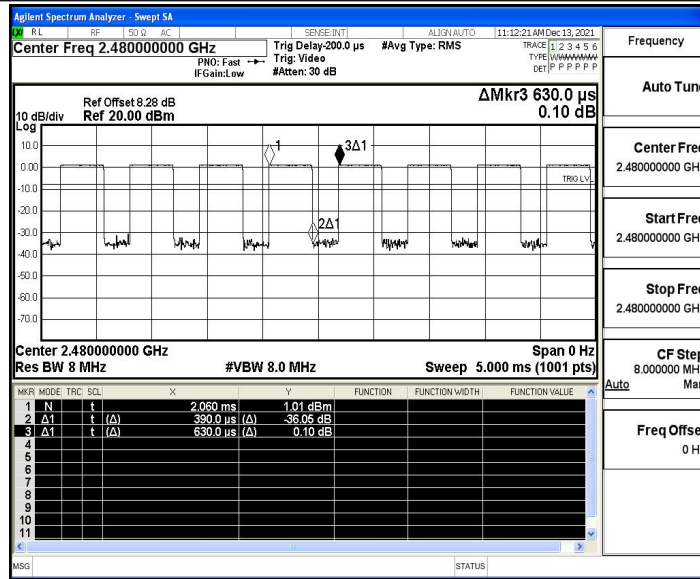
BLE_1M_Ant1_2402



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	-47.76	≤-41.20	47.44	≤54	PASS
				AV	2386.625	-46.92	≤-41.20	48.28	≤54	PASS
				AV	2390.000	-47.6	≤-41.20	47.60	≤54	PASS
				Peak	2310.000	-40.87	≤-21.20	54.33	≤74	PASS
				Peak	2370.875	-38.19	≤-21.20	57.01	≤74	PASS
				Peak	2390.000	-41.55	≤-21.20	53.65	≤74	PASS
		High	2480	AV	2483.500	-46.68	≤-41.20	48.52	≤54	PASS
				AV	2492.880	-46.37	≤-41.20	48.83	≤54	PASS
				AV	2500.000	-46.93	≤-41.20	48.27	≤54	PASS
				Peak	2483.500	-40.69	≤-21.20	54.51	≤74	PASS
				Peak	2496.480	-37.8	≤-21.20	57.40	≤74	PASS
				Peak	2500.000	-39.65	≤-21.20	55.55	≤74	PASS

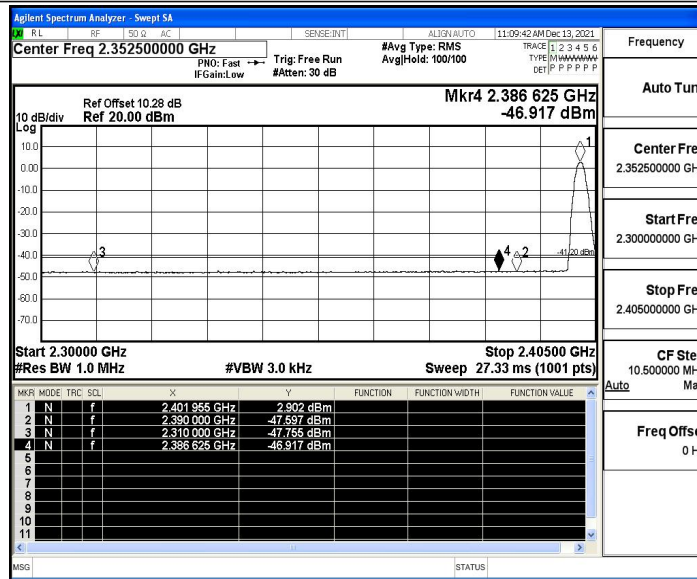
Note:

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.

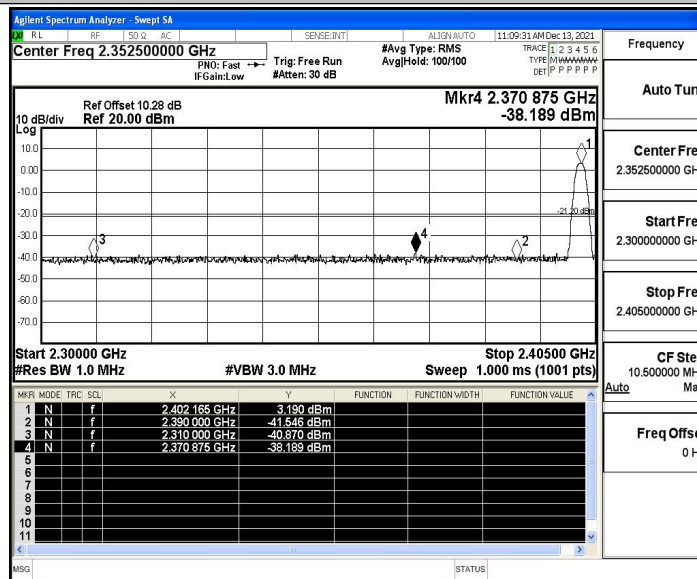


Test Graphs

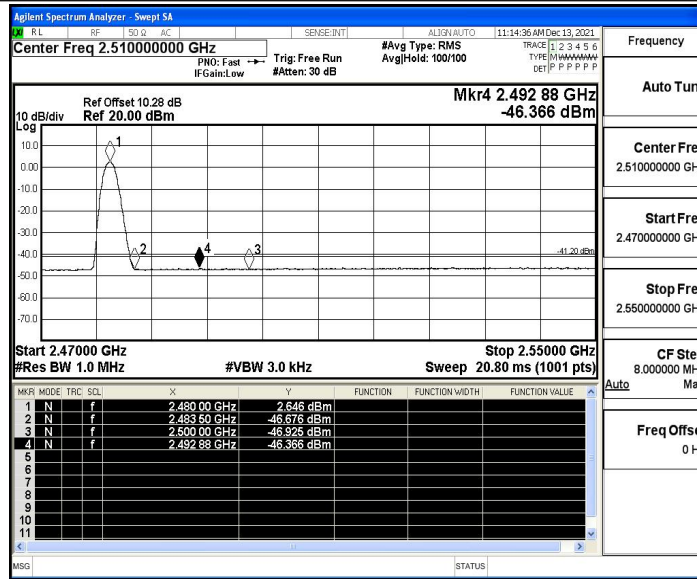
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

