

Appendix A

RF Test Data for BT(BLE) (Conducted Measurement)

Product Name: Mobile phone

Trade Mark: FLASH

Test Model: PRIME 1

FCC ID: 2A2LB-PRIME1

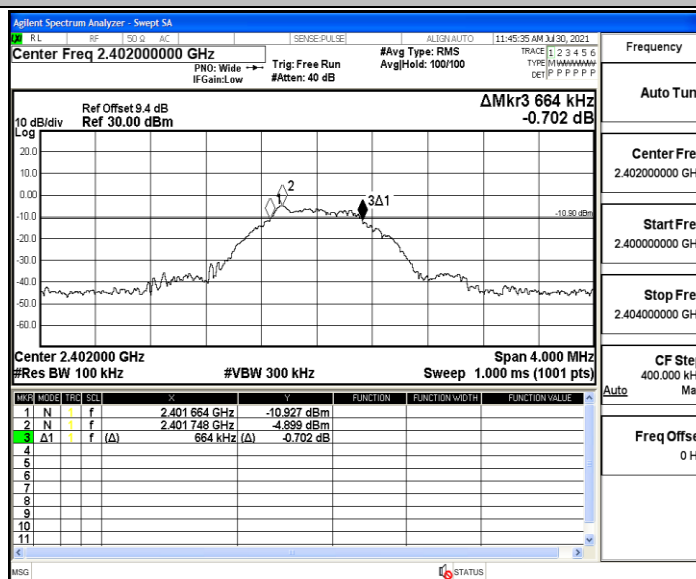
Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	51%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

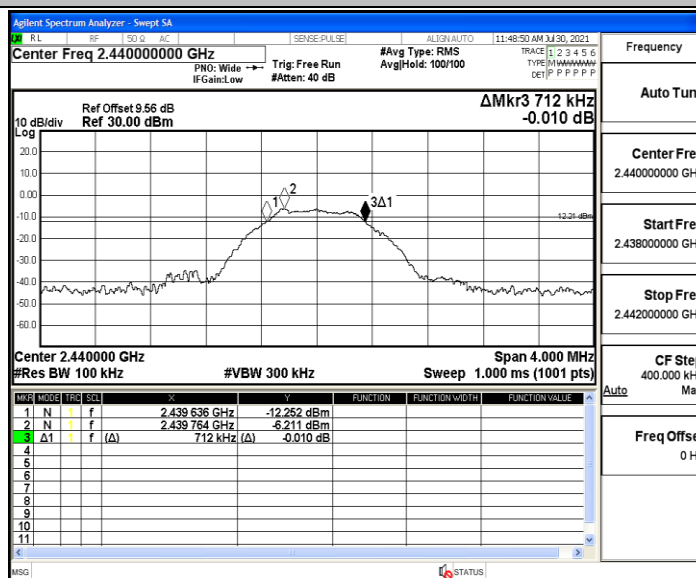
A.1. 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.664	2402.328	0.5	PASS
		2440	0.712	2439.636	2440.348	0.5	PASS
		2480	0.672	2479.660	2480.332	0.5	PASS

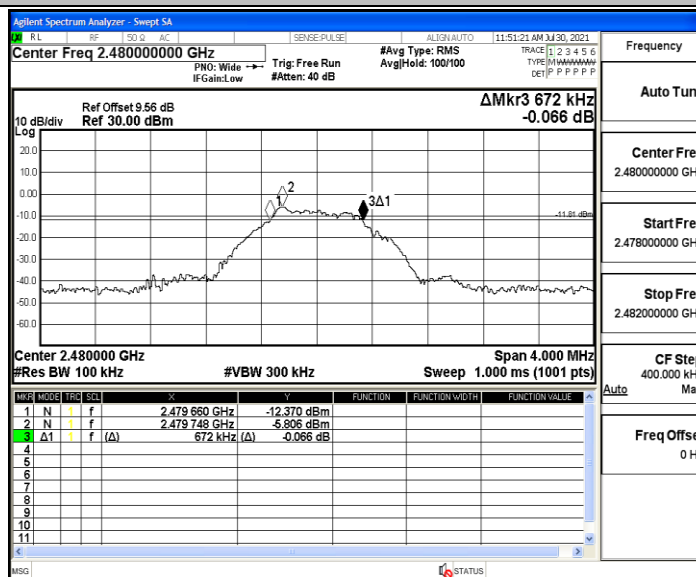
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



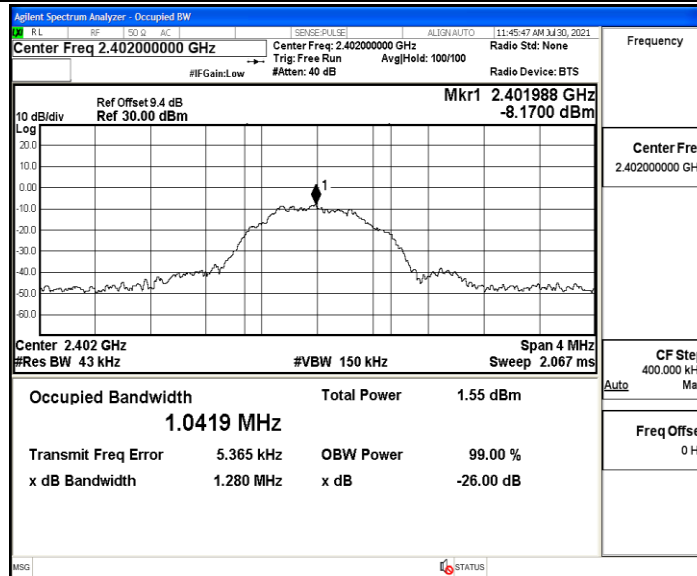
BLE_1M_Ant1_2480



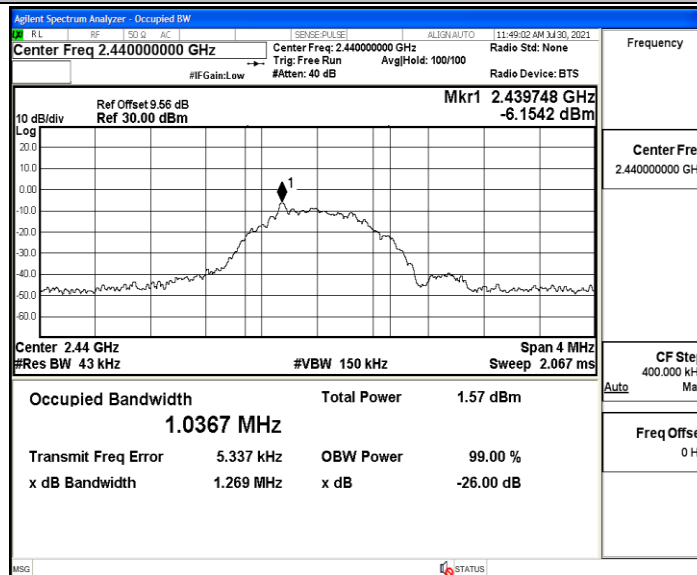
A.2. Occupied Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0419	2401.484	2402.526	---	PASS
		2440	1.0367	2439.487	2440.524	---	PASS
		2480	1.0425	2479.483	2480.526	---	PASS

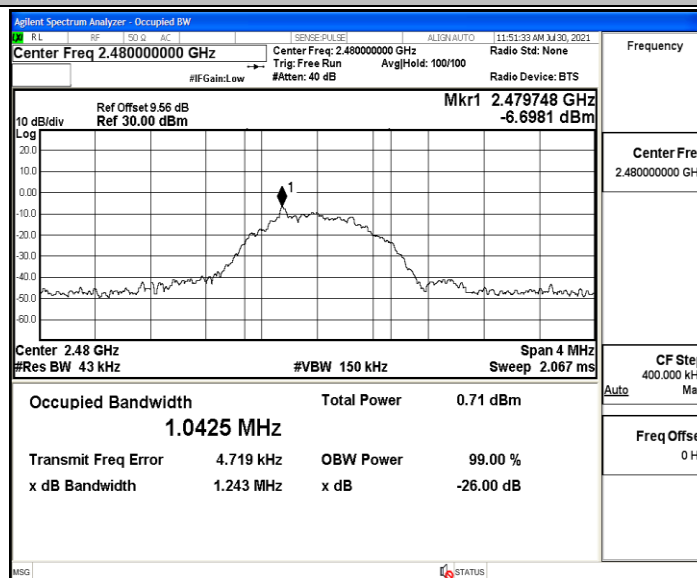
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



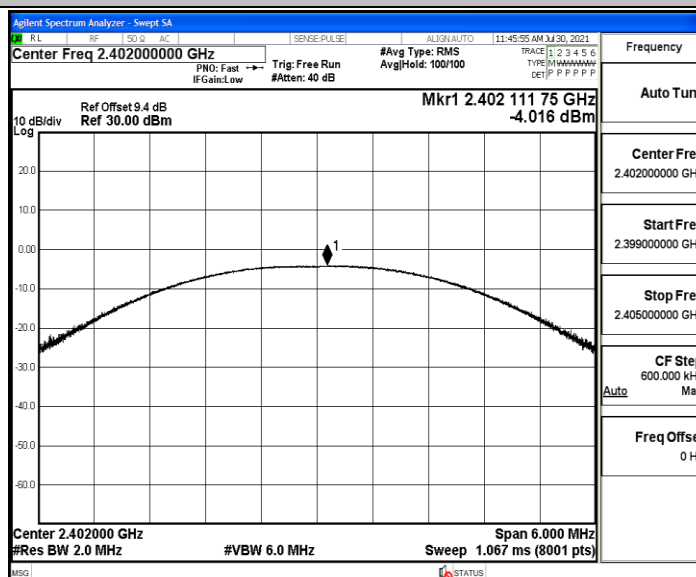
BLE_1M_Ant1_2480



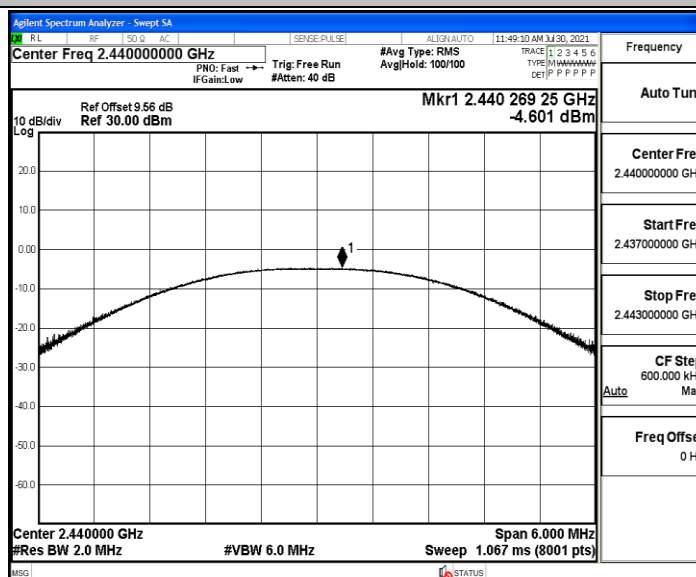
A.3. Maximum peak conducted output power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.02	≤30	PASS
		2440	-4.6	≤30	PASS
		2480	-5.21	≤30	PASS

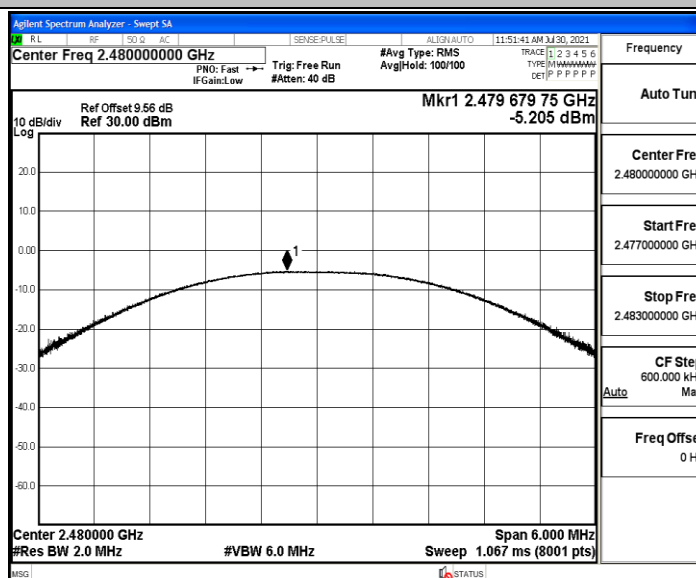
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



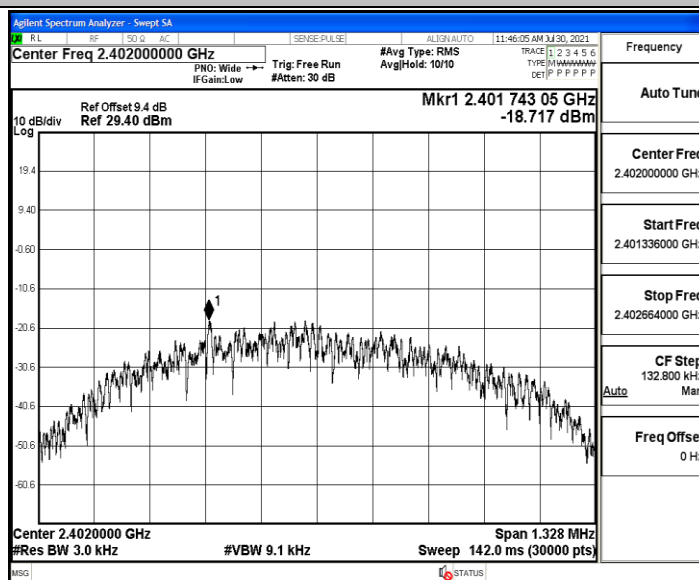
BLE_1M_Ant1_2480



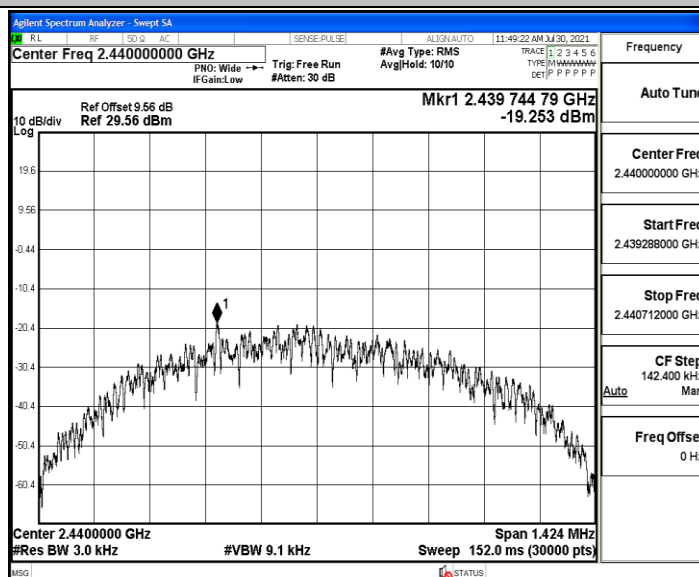
A.4. Maximum Peak power spectral density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.72	≤8	PASS
		2440	-19.25	≤8	PASS
		2480	-19.76	≤8	PASS

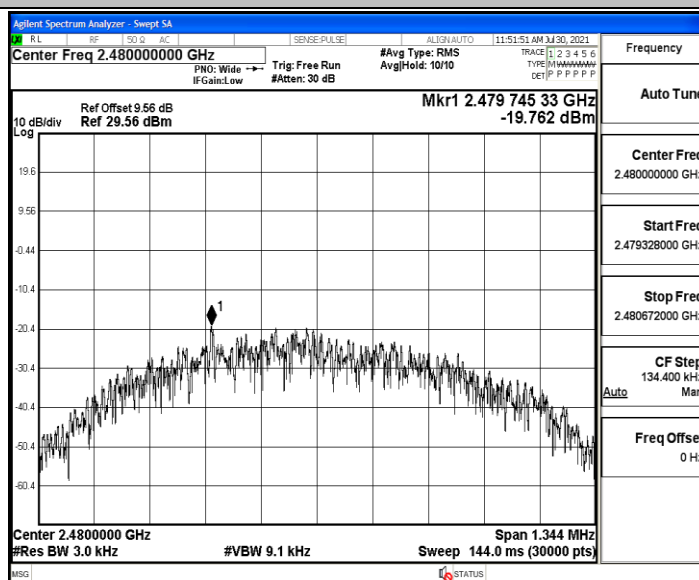
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



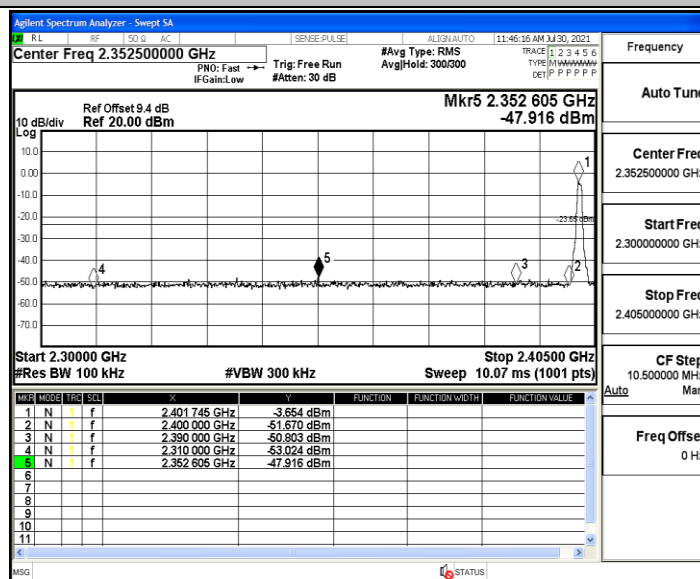
BLE_1M_Ant1_2480



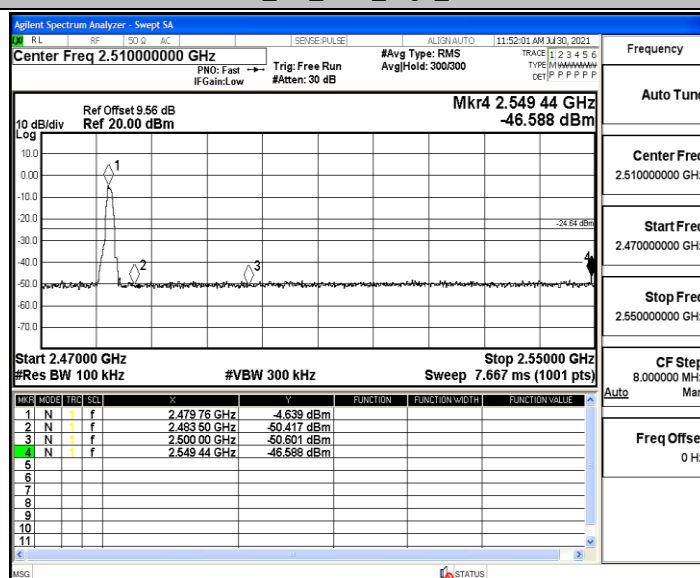
A.5. Band-edge for RF Conducted Emissions

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.65	-47.92	≤ -23.65	PASS
		High	2480	-4.64	-46.59	≤ -24.64	PASS

BLE_1M_Ant1_Low_2402



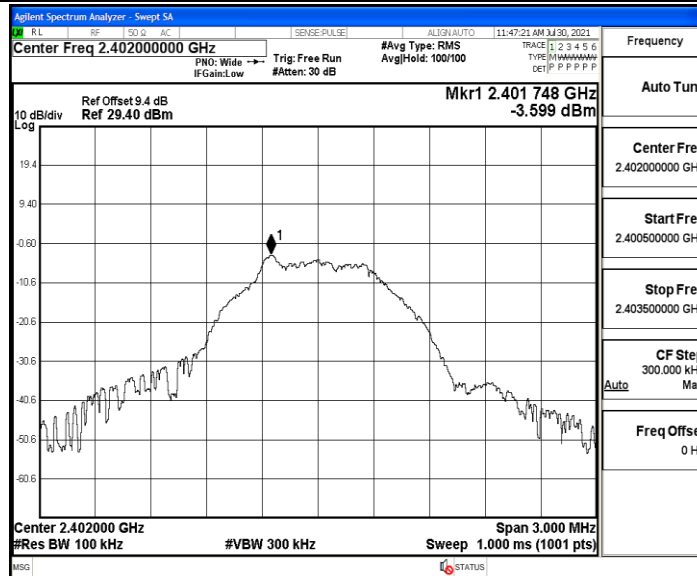
BLE_1M_Ant1_High_2480



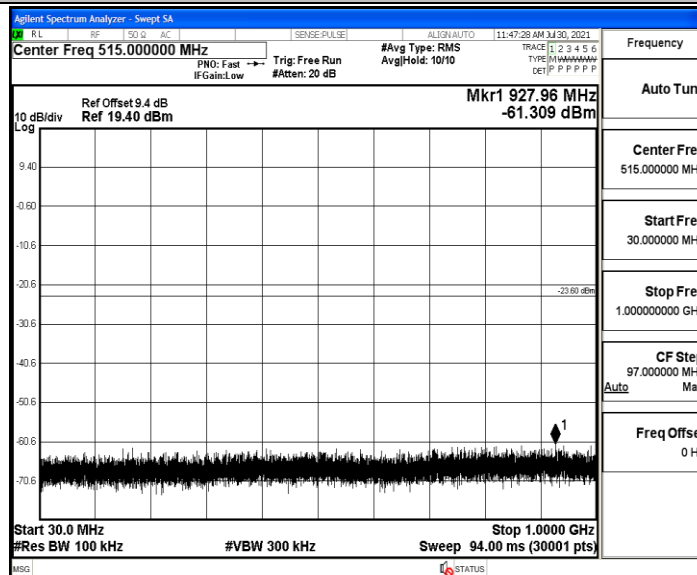
A.6. RF Conducted Spurious Emissions

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.60	-3.60	---	PASS
			30~1000	-3.60	-61.31	≤ -23.6	PASS
			1000~26500	-3.60	-51.76	≤ -23.6	PASS
		2440	Reference	-4.20	-4.20	---	PASS
			30~1000	-4.20	-60.67	≤ -24.2	PASS
			1000~26500	-4.20	-51.55	≤ -24.2	PASS
		2480	Reference	-4.50	-4.50	---	PASS
			30~1000	-4.50	-61	≤ -24.5	PASS
			1000~26500	-4.50	-51.76	≤ -24.5	PASS

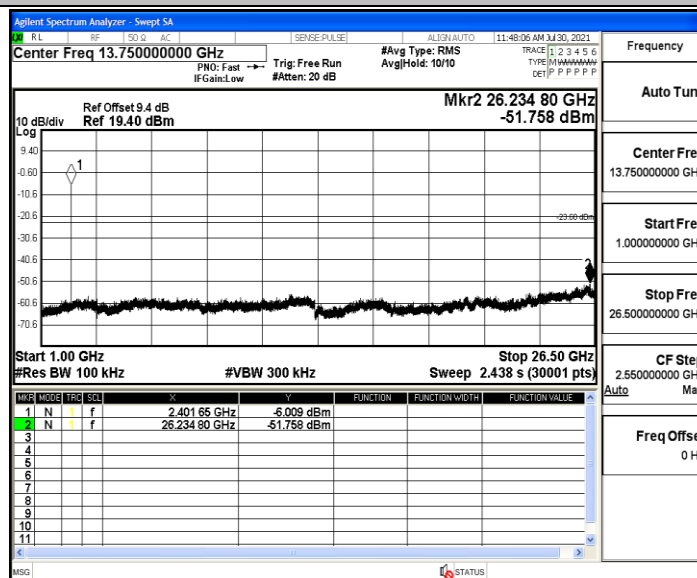
BLE_1M_Ant1_2402_0~Reference



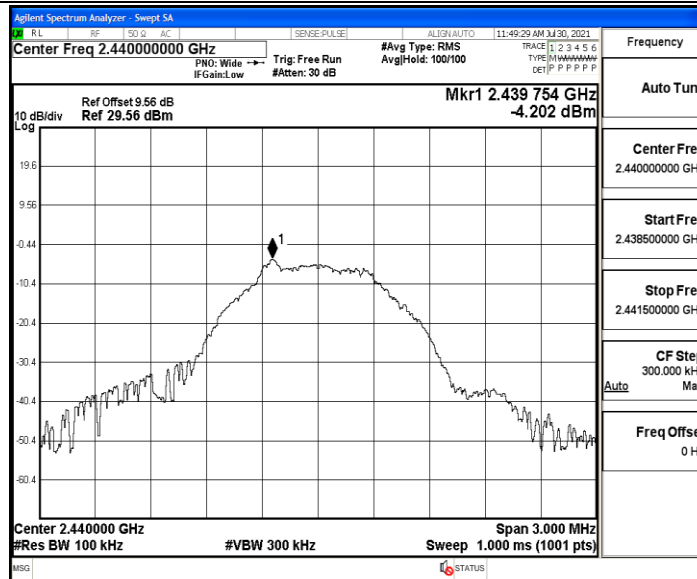
BLE_1M_Ant1_2402_30~1000



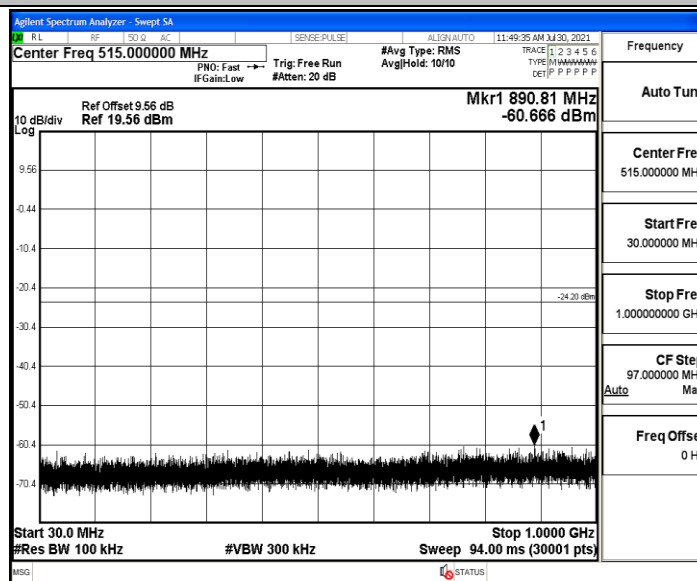
BLE_1M_Ant1_2402_1000~26500



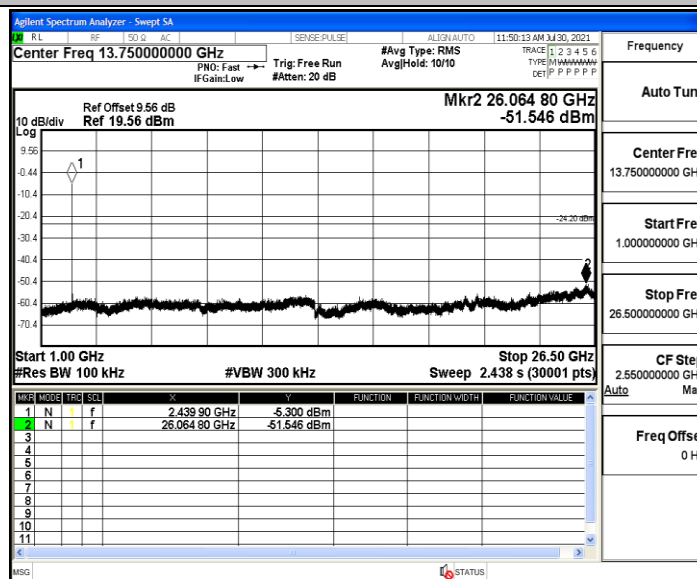
BLE_1M_Ant1_2440_0~Reference



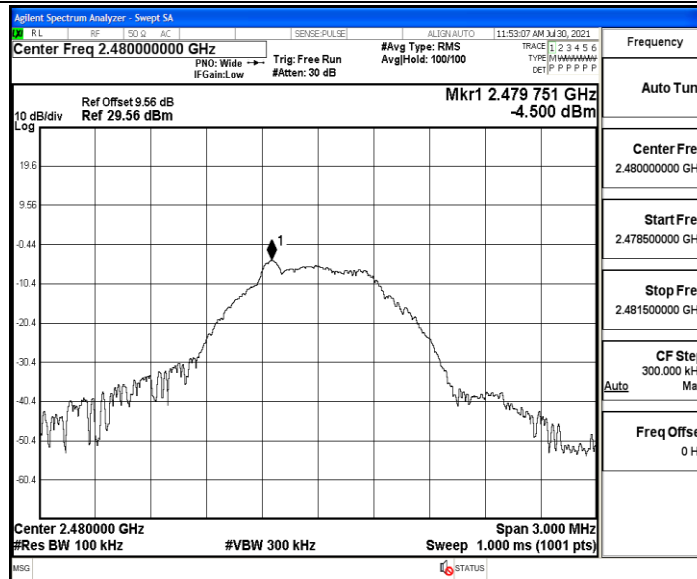
BLE_1M_Ant1_2440_30~1000



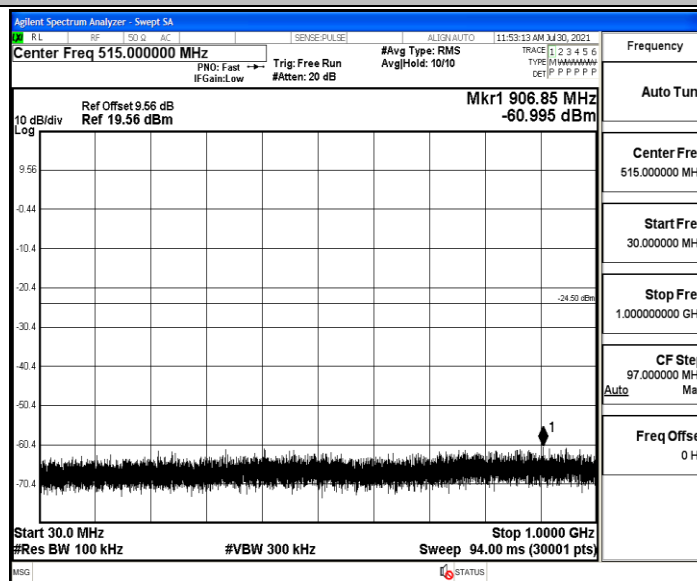
BLE_1M_Ant1_2440_1000~26500



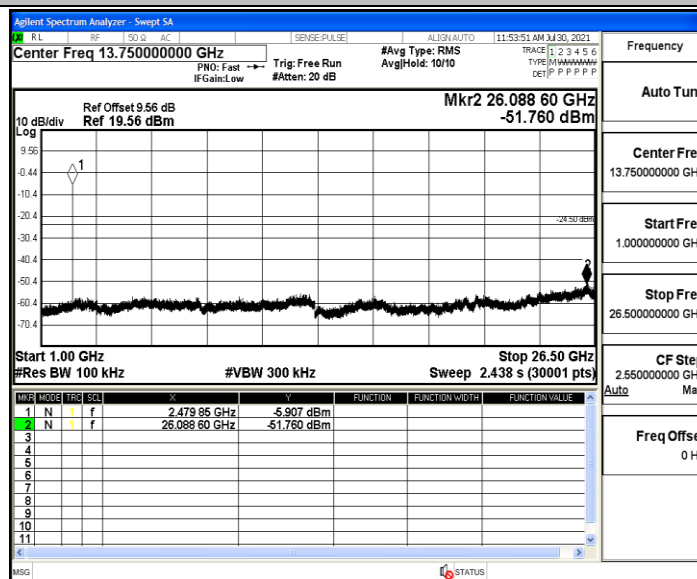
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



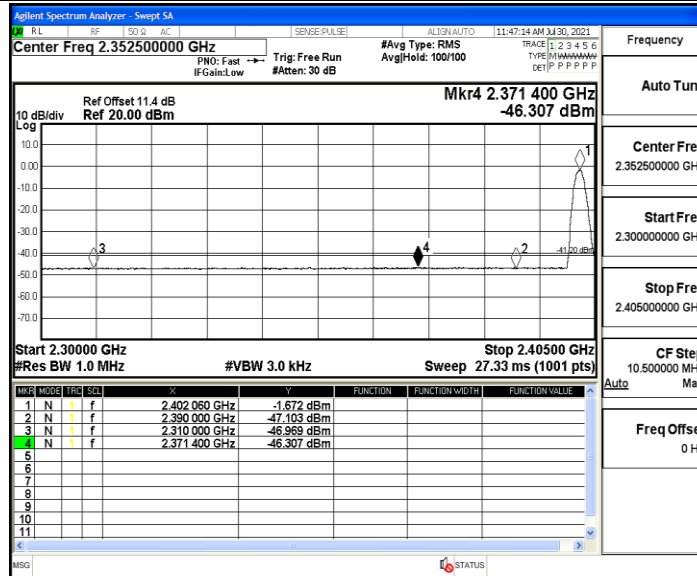
A.7. Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-46.97	≤-41.20	PASS
				AV	2371.400	-46.31	≤-41.20	PASS
				AV	2390.000	-47.1	≤-41.20	PASS
				Peak	2310.000	-41.01	≤-21.20	PASS
				Peak	2351.660	-37.04	≤-21.20	PASS
				Peak	2390.000	-41	≤-21.20	PASS
		High	2480	AV	2483.500	-45.98	≤-41.20	PASS
				AV	2499.920	-45.73	≤-41.20	PASS
				AV	2500.000	-46.36	≤-41.20	PASS
				Peak	2483.500	-39.95	≤-21.20	PASS
				Peak	2497.600	-37.75	≤-21.20	PASS
				Peak	2500.000	-39.73	≤-21.20	PASS

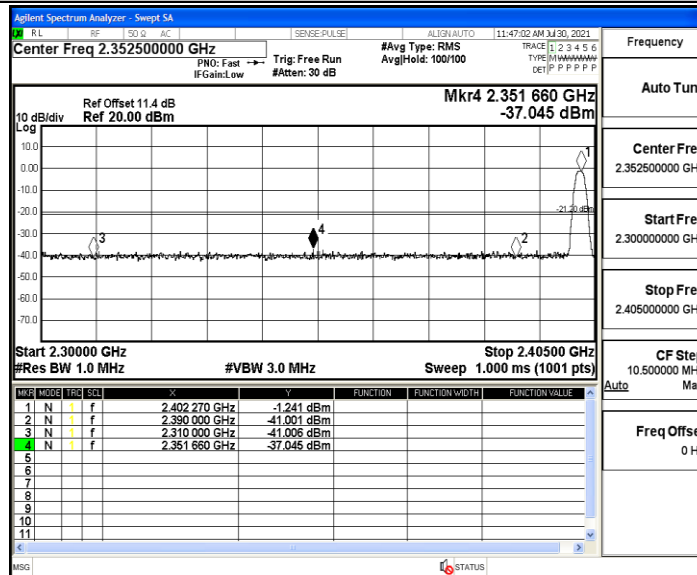
Note

1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
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.

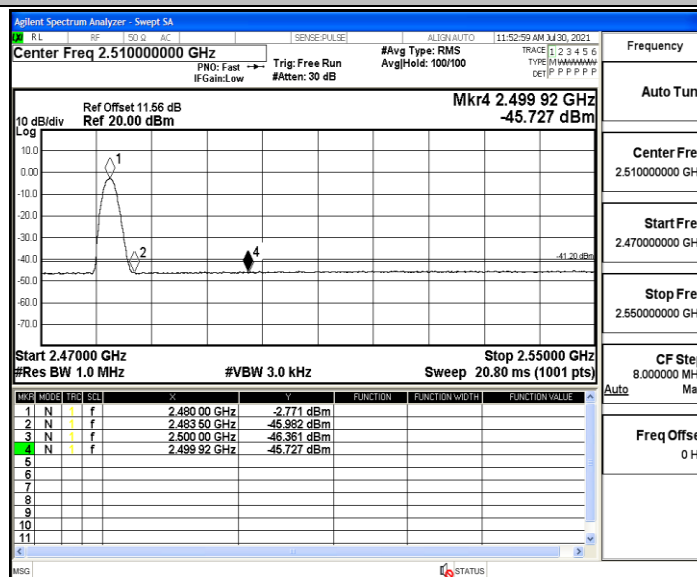
BLE_1M_Ant1_Low_2402_AV



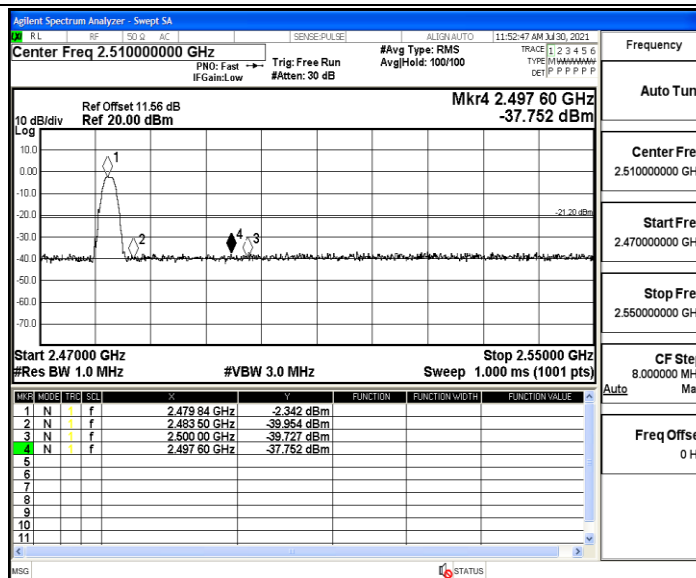
BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



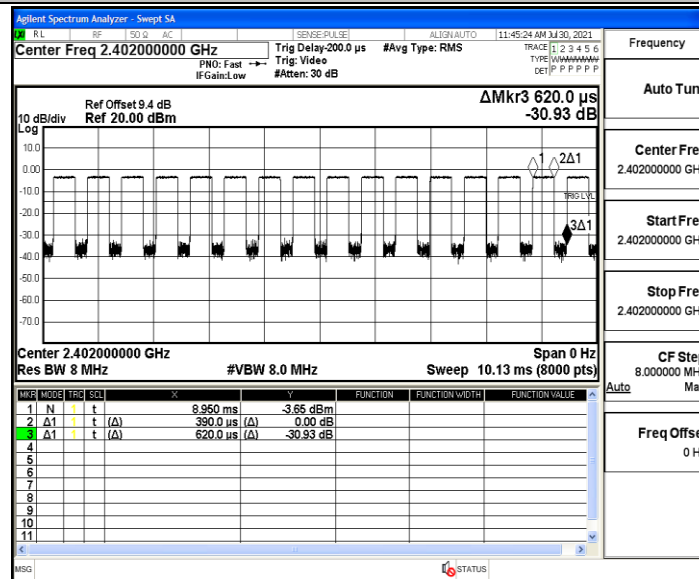
BLE_1M_Ant1_High_2480_Peak



A.8. Duty Cycle

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/B[KHz]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.56
		2440	0.39	0.62	62.90	2.56
		2480	0.39	0.63	62.90	2.56

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

