

Appendix B

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

Product Name: AR GUN

Trade Mark: N/A

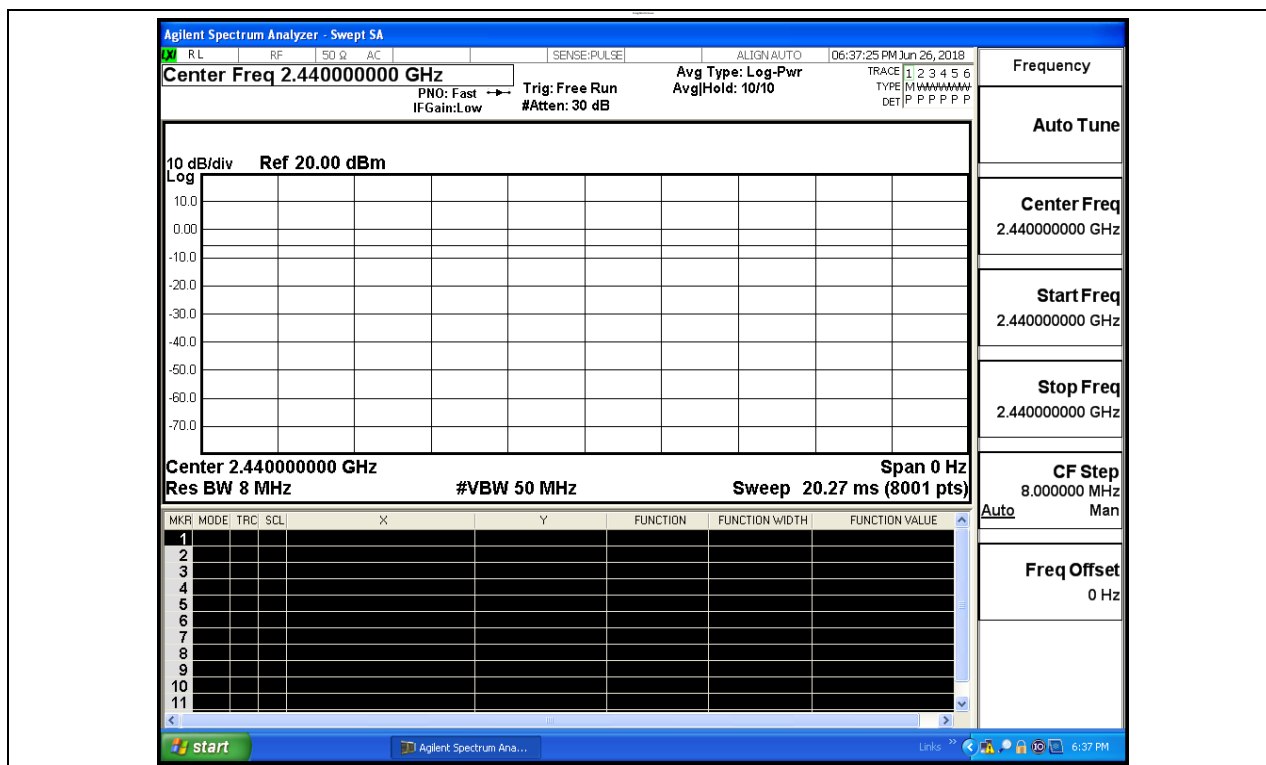
Test Model: G20C

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

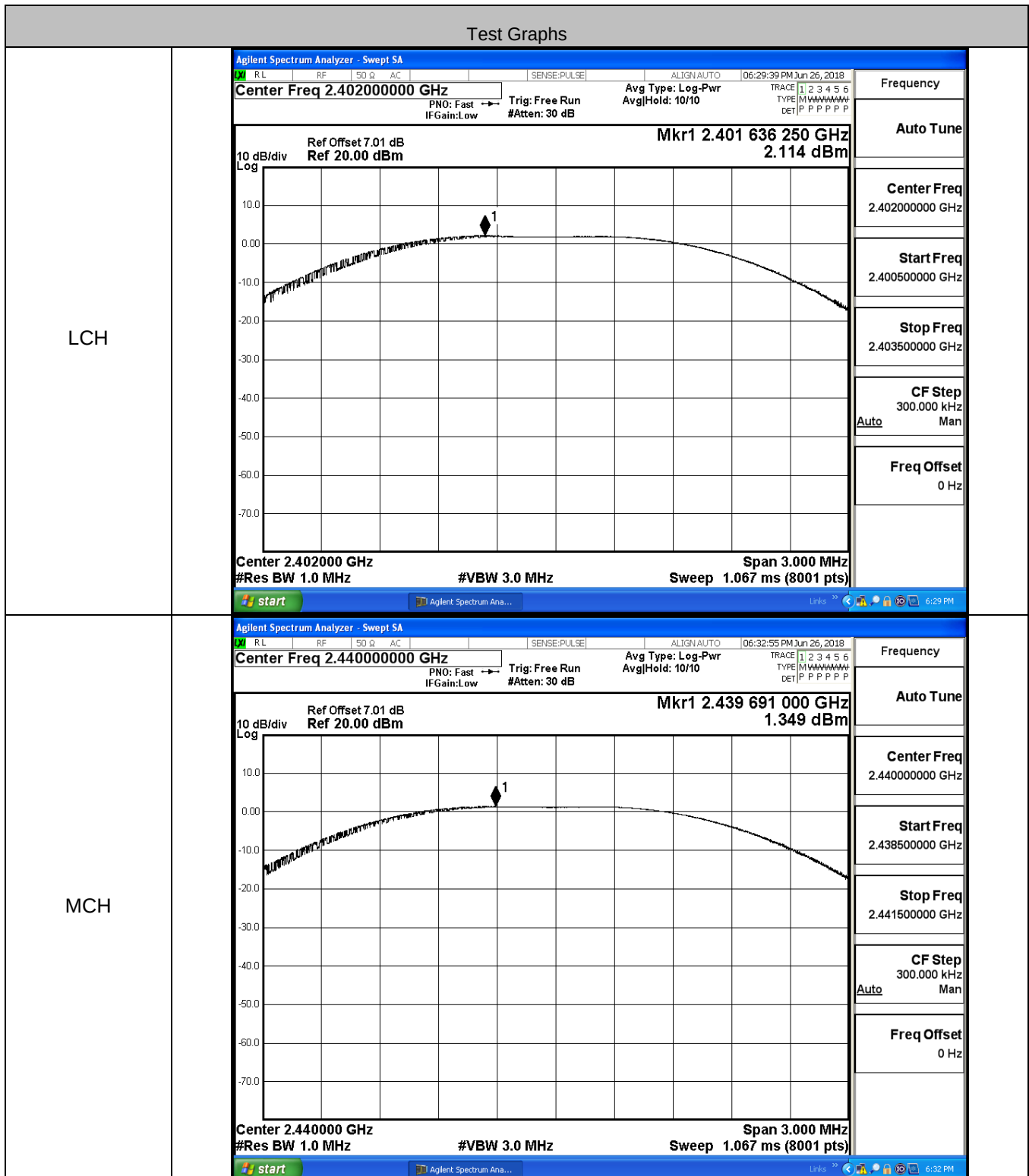
B.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS

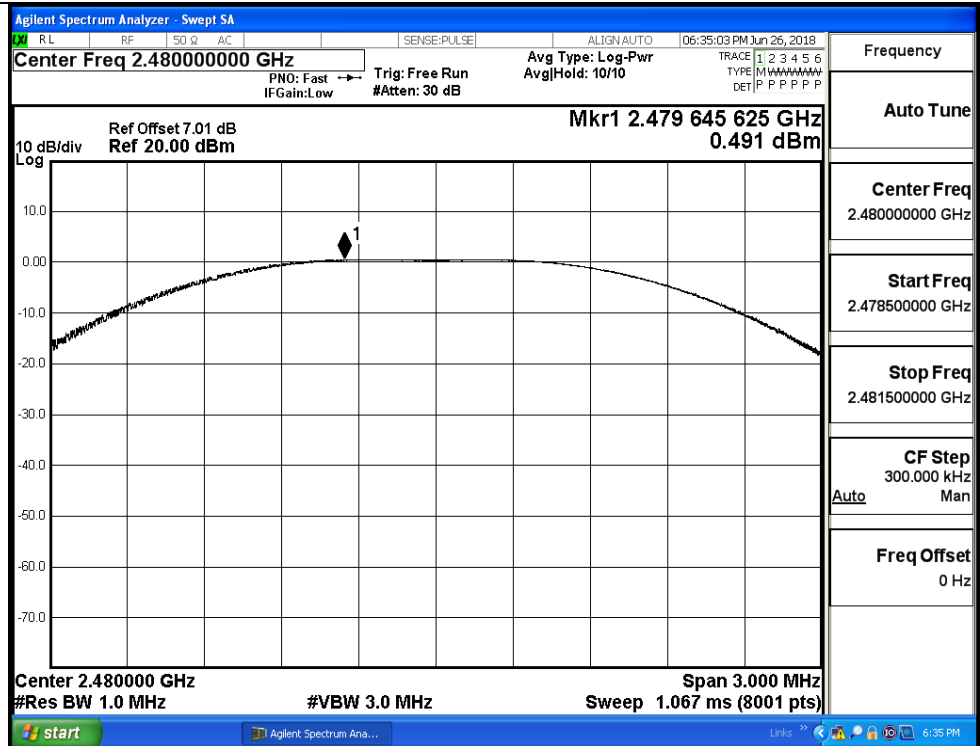


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.114	30	PASS
BT LE	MCH	1.349	30	PASS
BT LE	HCH	0.491	30	PASS



HCH

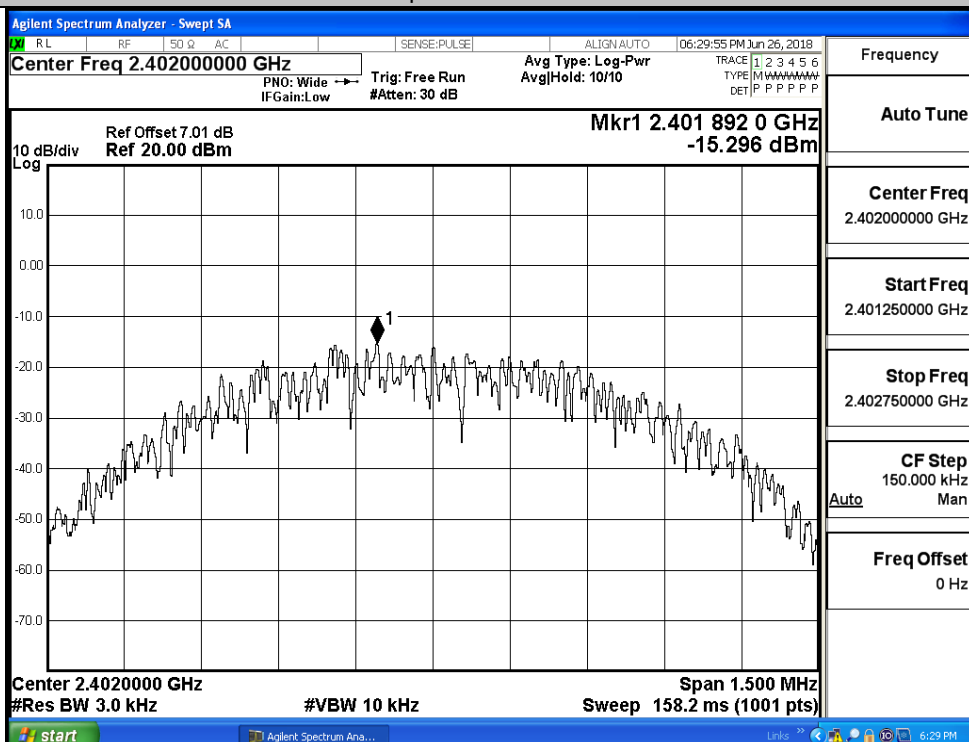


B.3 Maximum Power Spectral Density

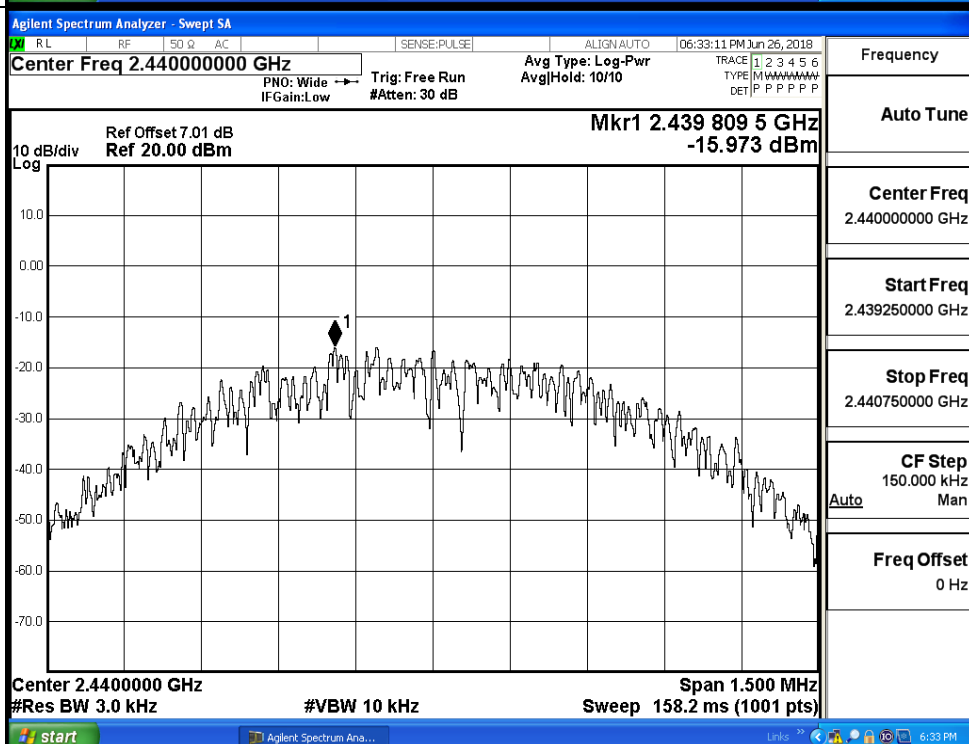
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.296	8	PASS
BT LE	MCH	-15.973	8	PASS
BT LE	HCH	-16.771	8	PASS

Test Graphs

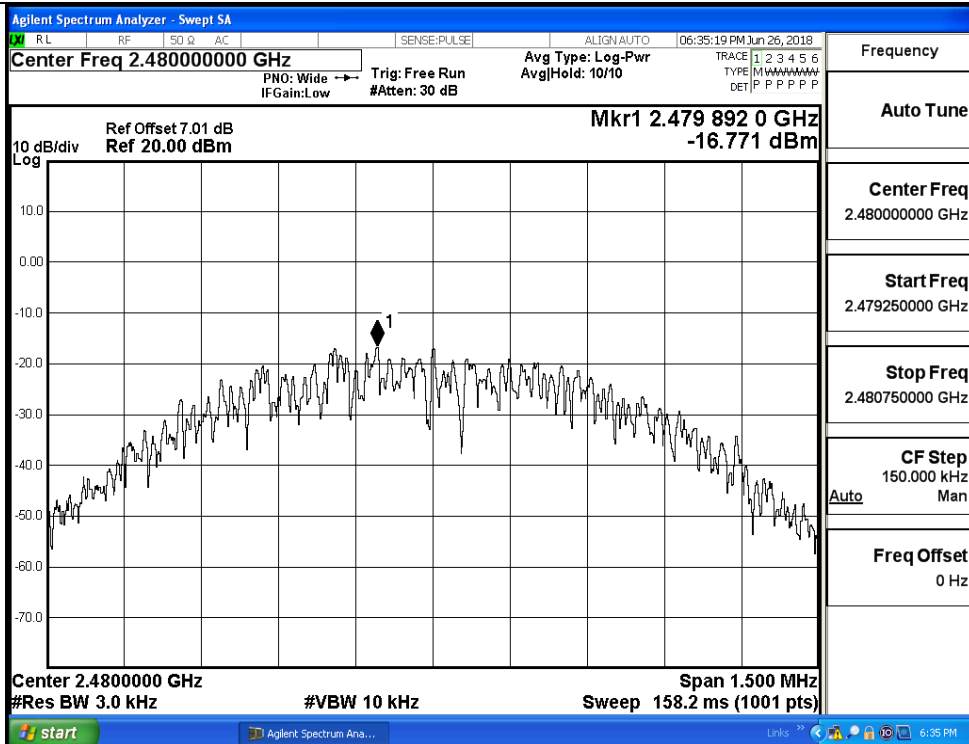
LCH



MCH



HCH

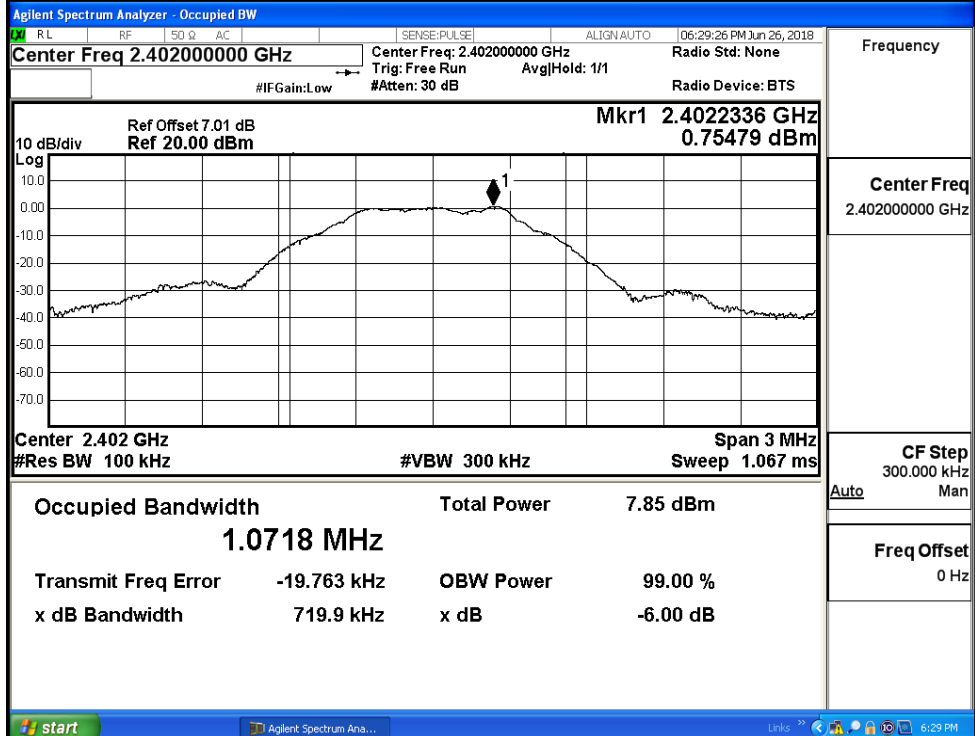


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7199	≥ 0.5	PASS
BT LE	MCH	0.7113	≥ 0.5	PASS
BT LE	HCH	0.7283	≥ 0.5	PASS

Test Graphs

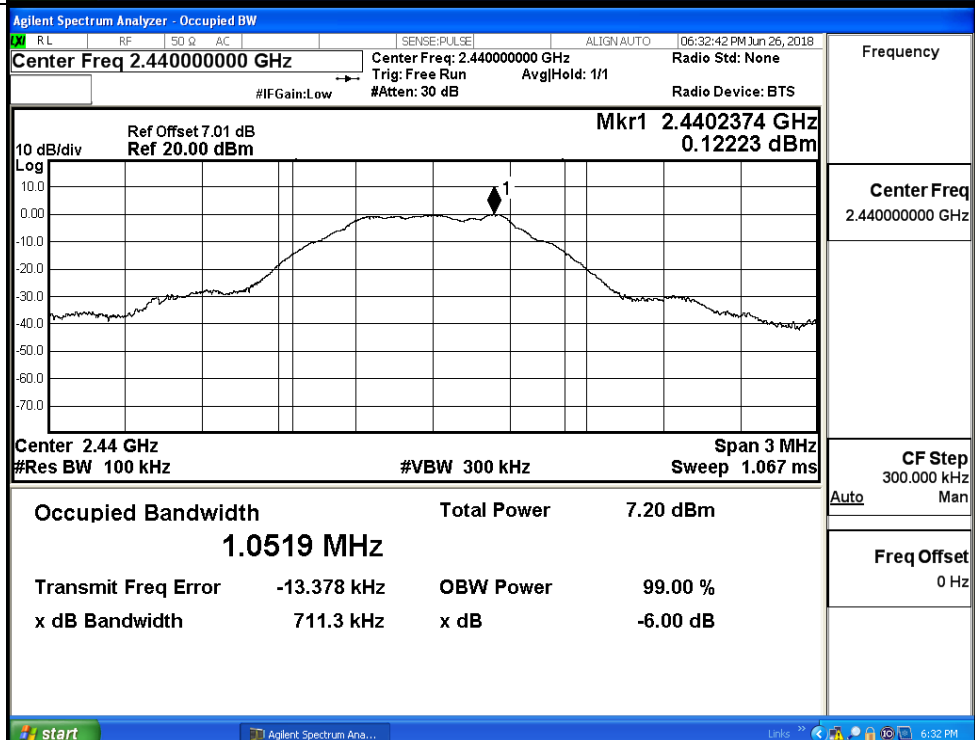
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

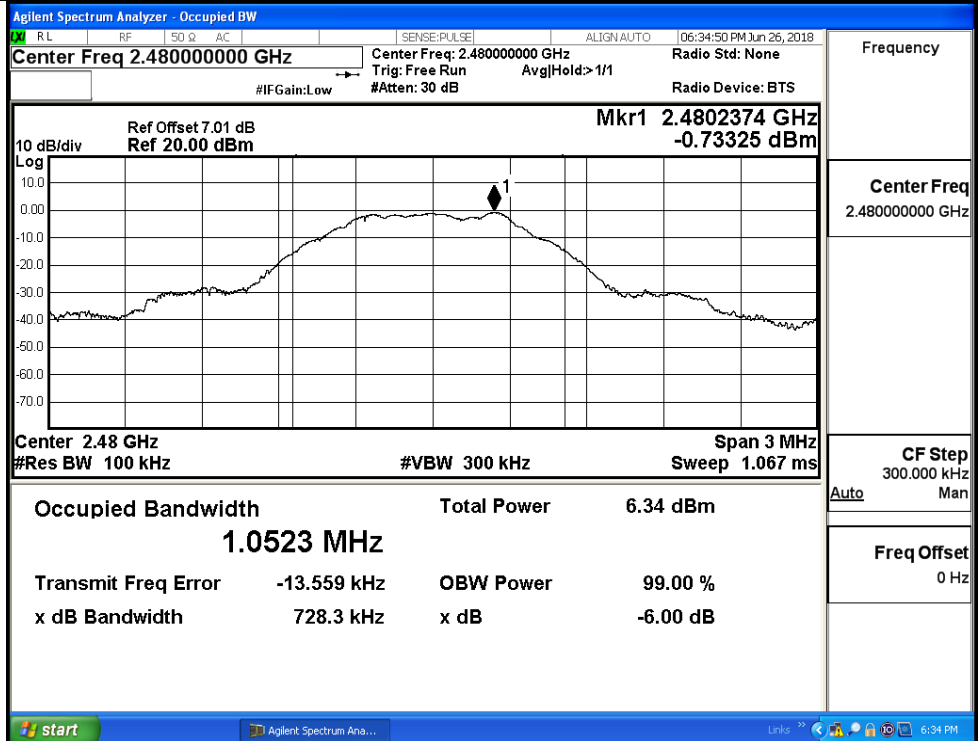
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

HCH

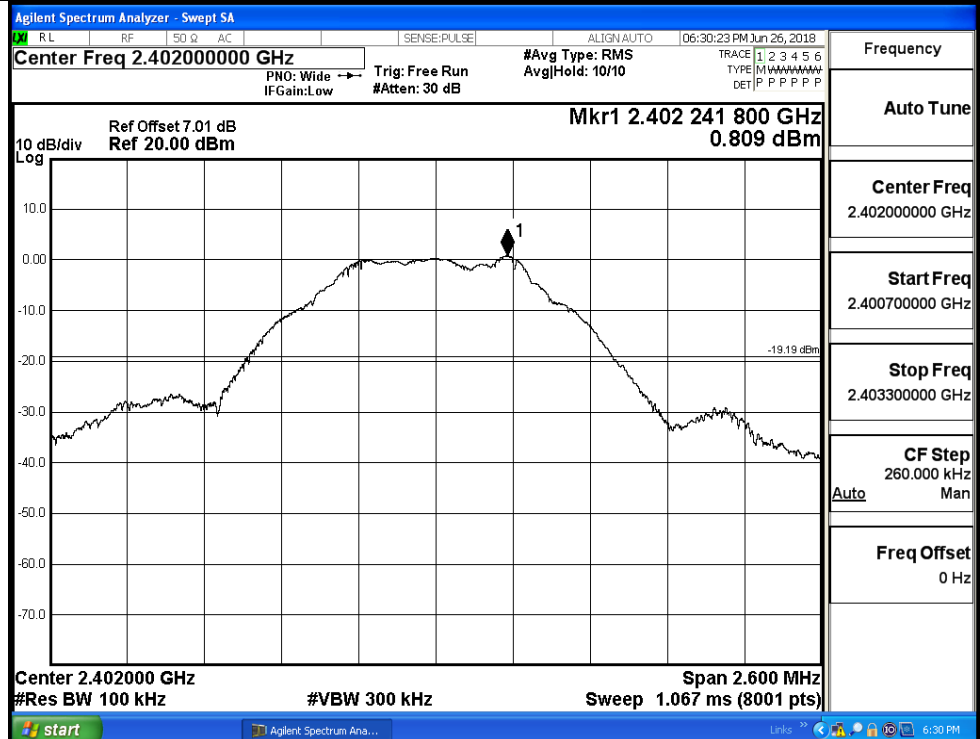


B.5 RF Conducted Spurious Emissions

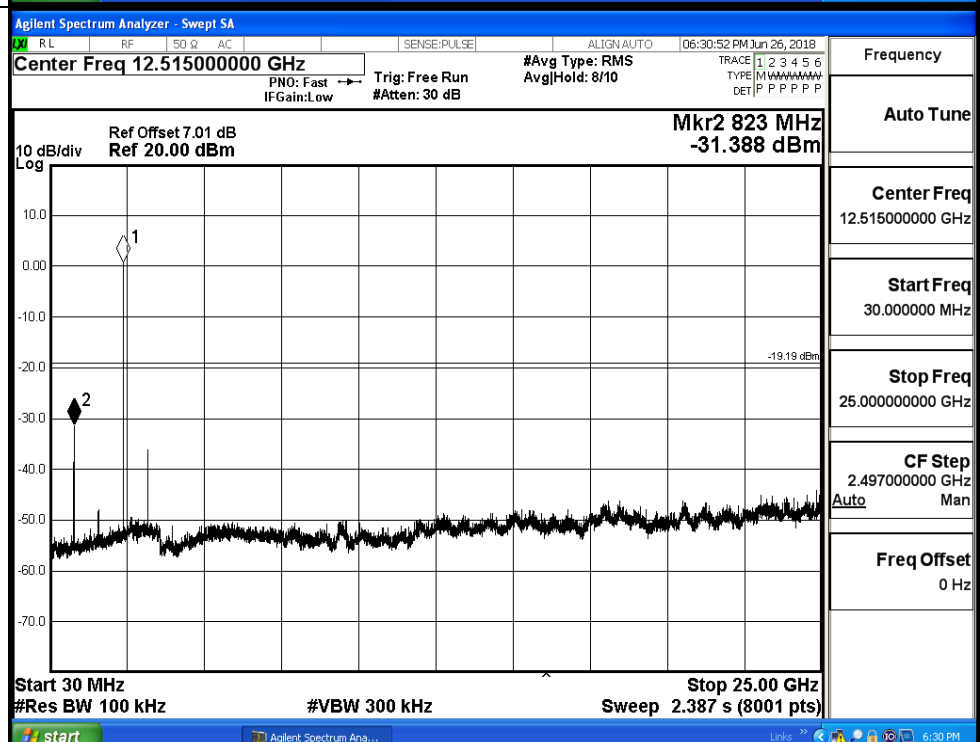
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.809	-31.388	-19.191	PASS
BT LE	MCH	0.139	-35.372	-19.861	PASS
BT LE	HCH	-0.779	-35.371	-20.779	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

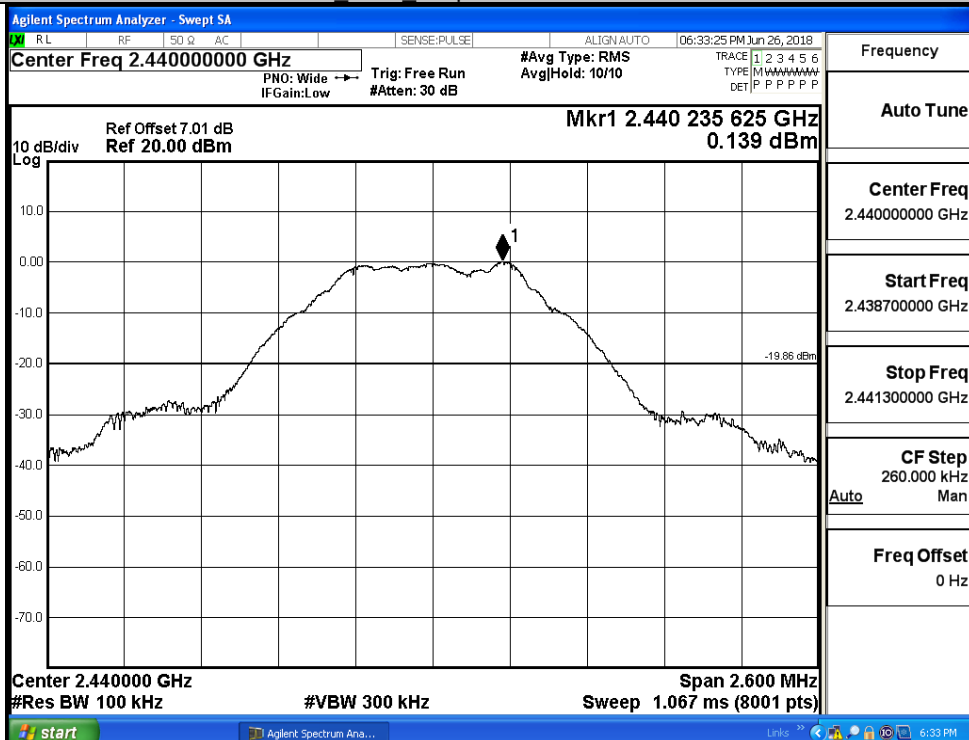


Puw/BT LE/LCH

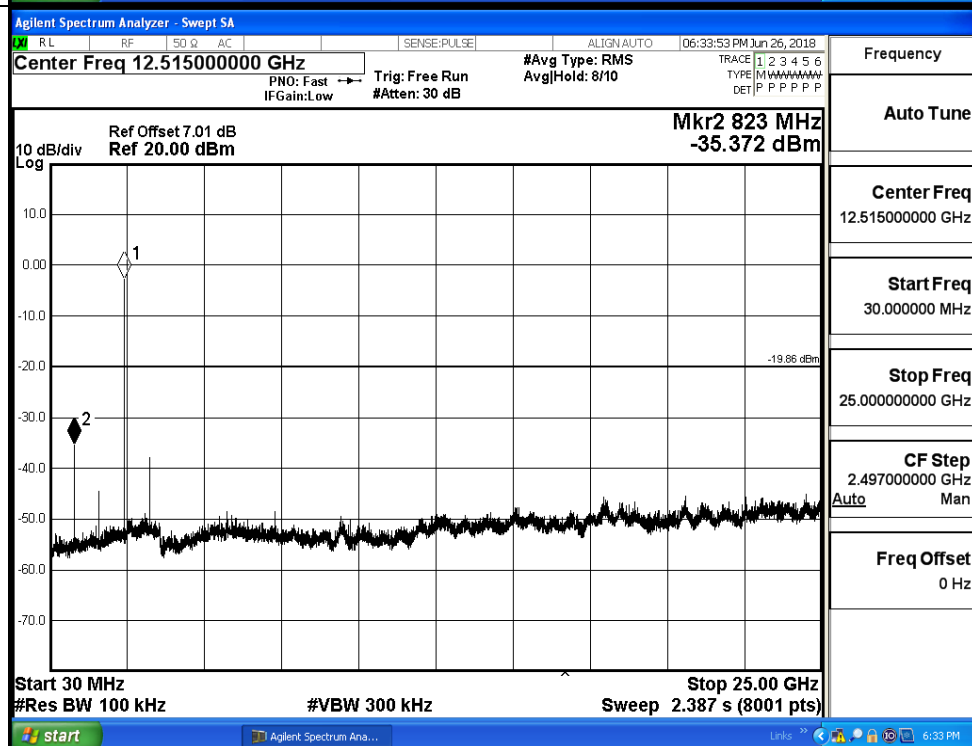


BT LE MCH Graphs

Pref/BT LE/MCH

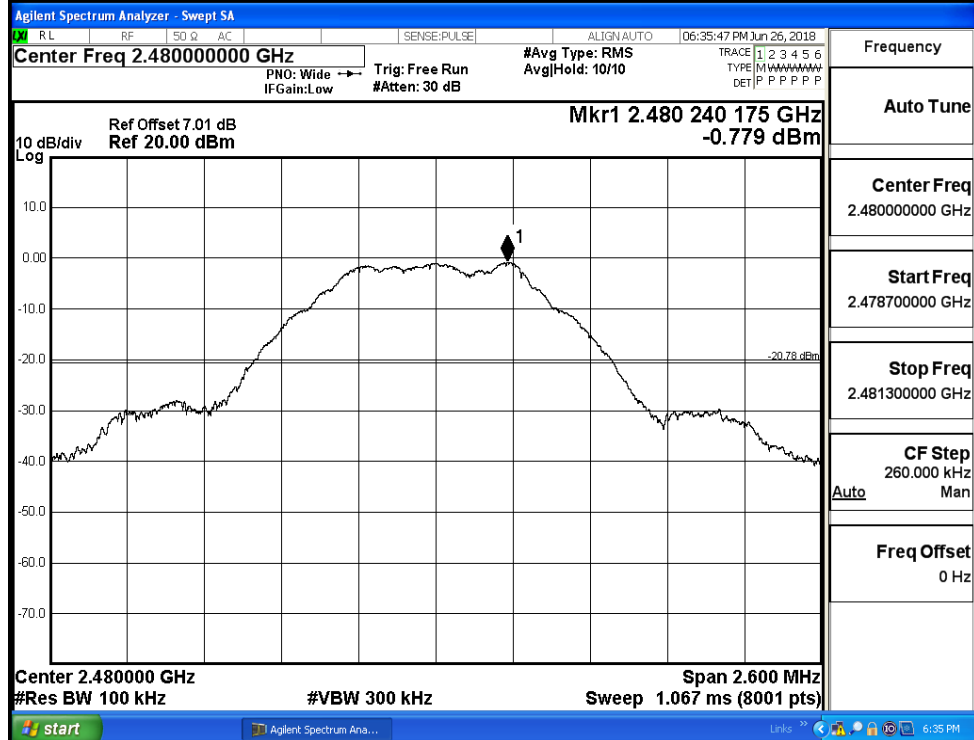


Puw/BT LE/MCH

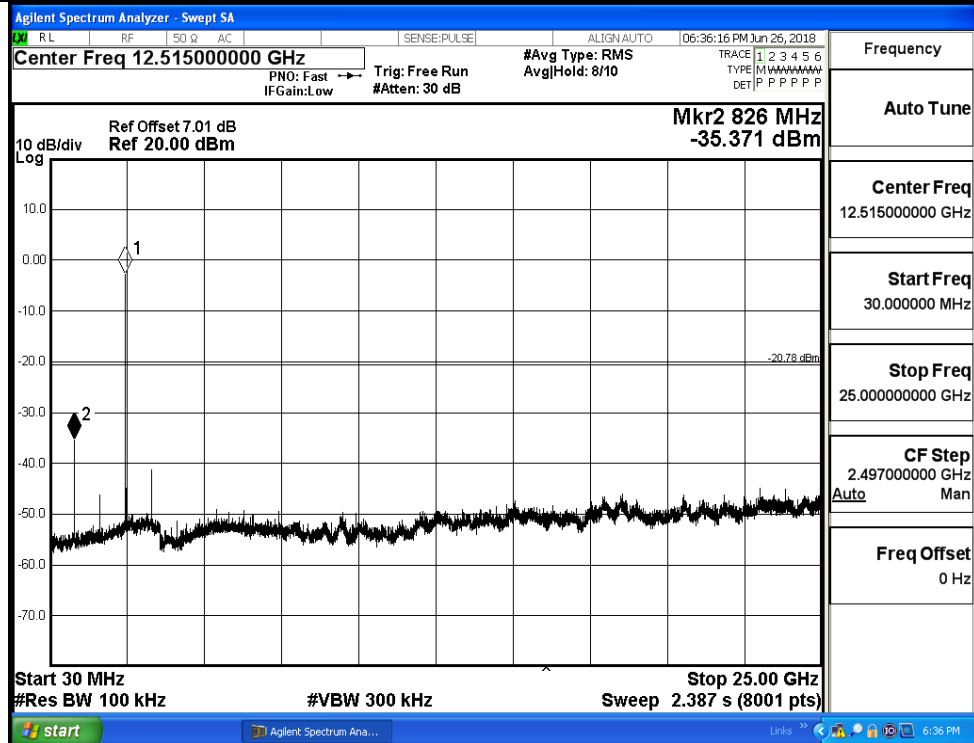


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

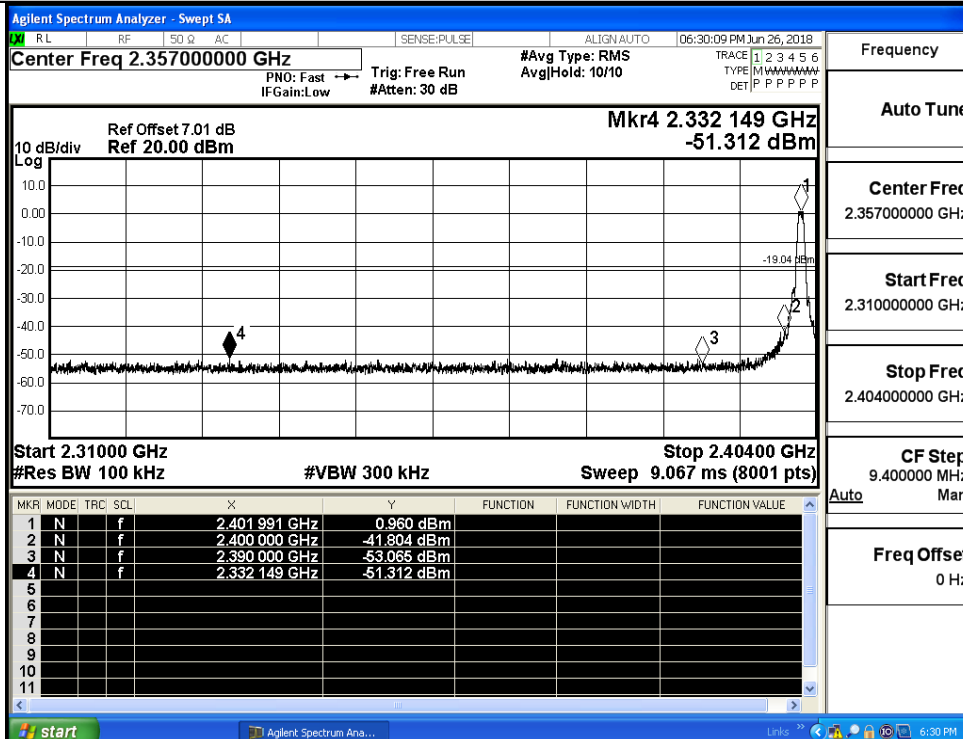


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.960	-51.312	-19.04	PASS
BT LE	HCH	-0.343	-47.974	-20.34	PASS

Test Graphs

LCH

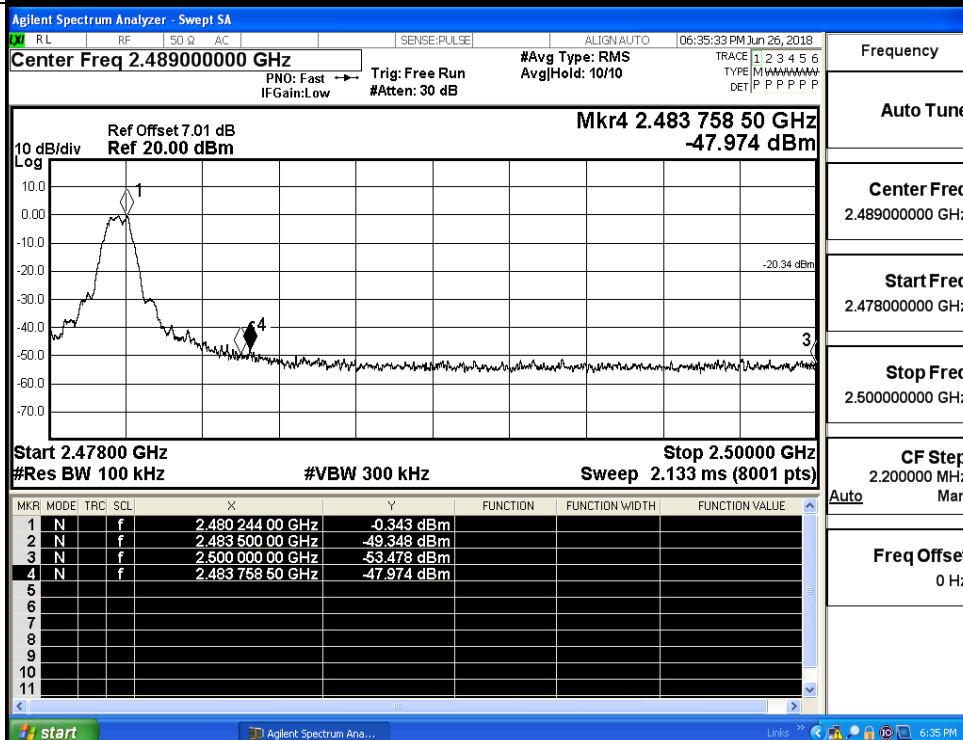


Frequency

Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

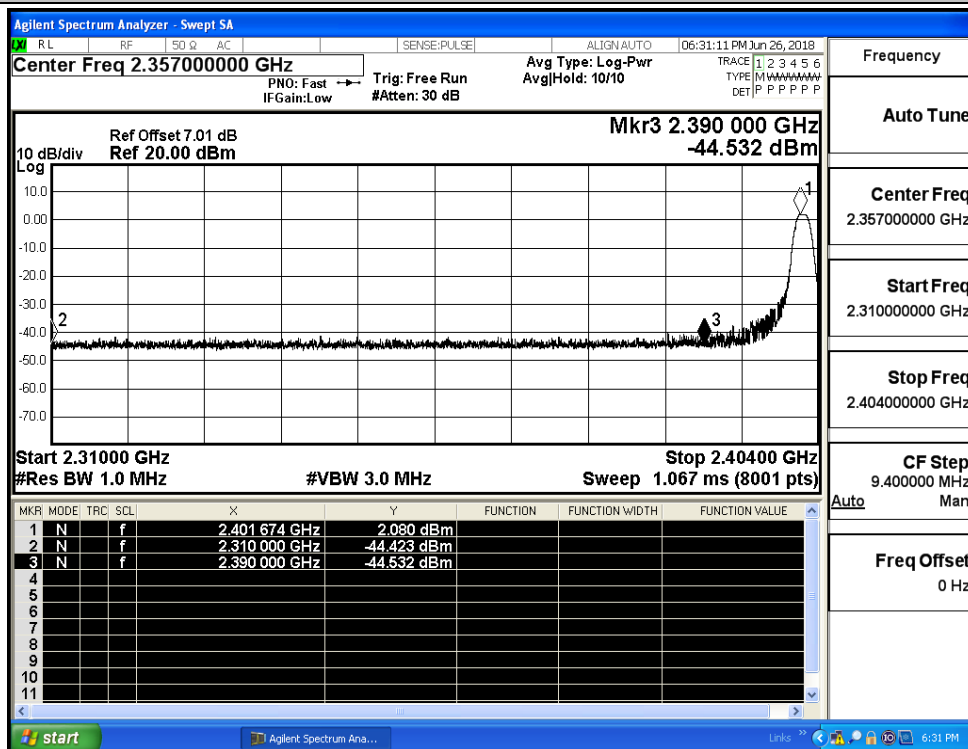
Auto Tune

Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

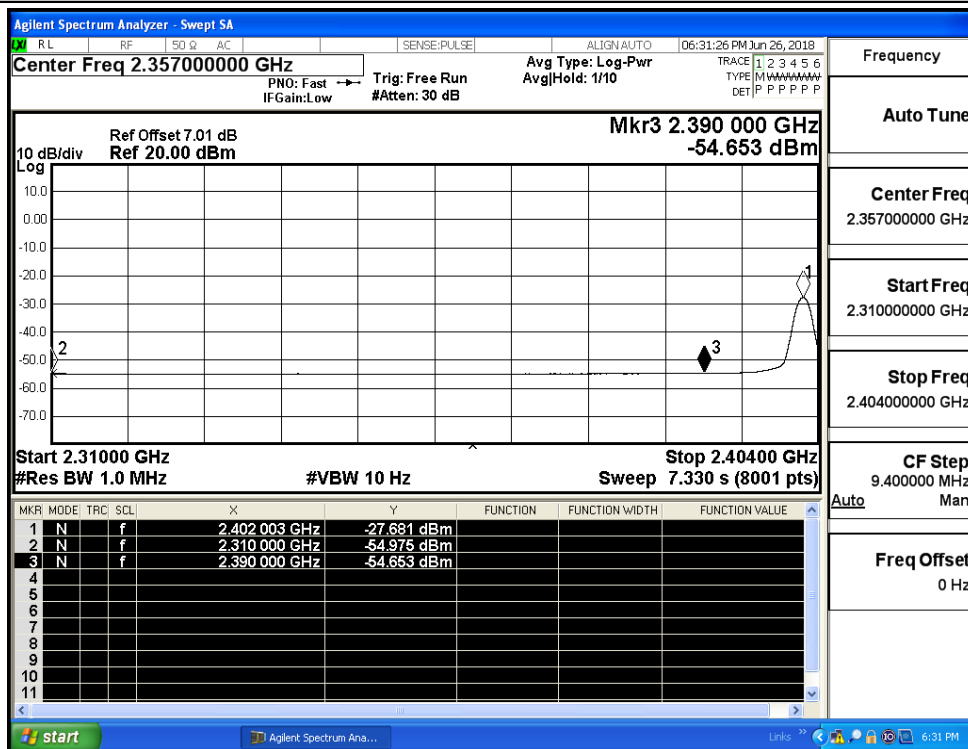
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-44.42	2.0	0	52.83	PEAK	74	PASS
		Ant1	2310.0	-54.98	2.0	0	42.28	AV	54	PASS
		Ant1	2390.0	-44.53	2.0	0	52.73	PEAK	74	PASS
		Ant1	2390.0	-54.65	2.0	0	42.60	AV	54	PASS
	2480	Ant1	2483.5	-39.47	2.0	0	57.79	PEAK	74	PASS
		Ant1	2483.5	-52.90	2.0	0	44.36	AV	54	PASS
		Ant1	2500.0	-43.93	2.0	0	53.33	PEAK	74	PASS
		Ant1	2500.0	-54.36	2.0	0	42.90	AV	54	PASS

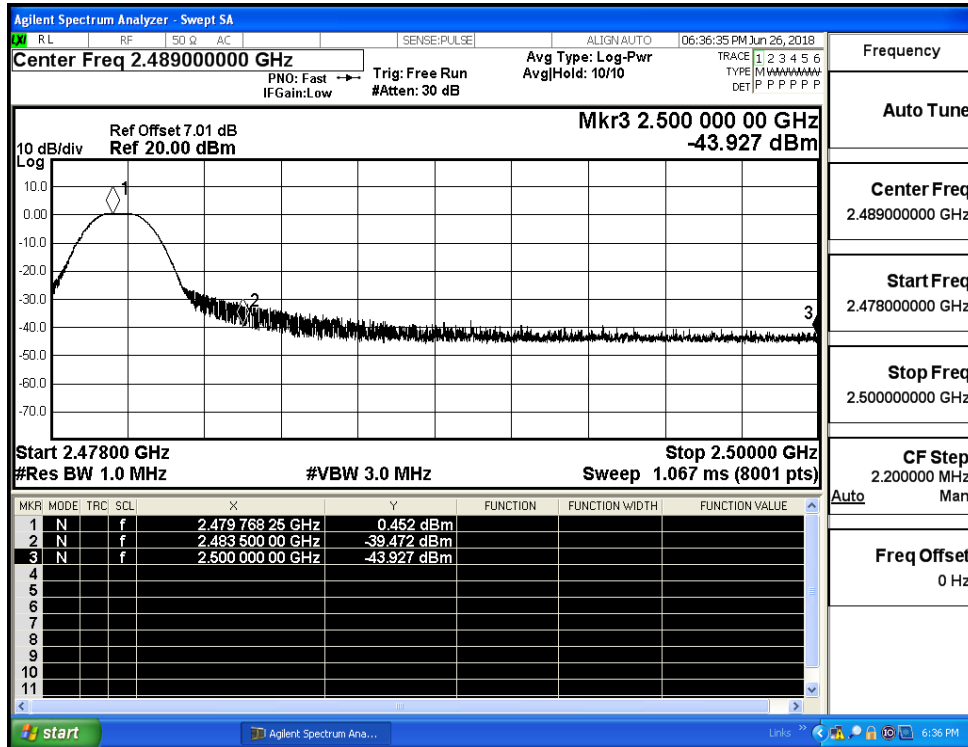
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

