

Appendix B

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

Product Name: Legends Ultimate Home Arcade

Trade Mark: N/A

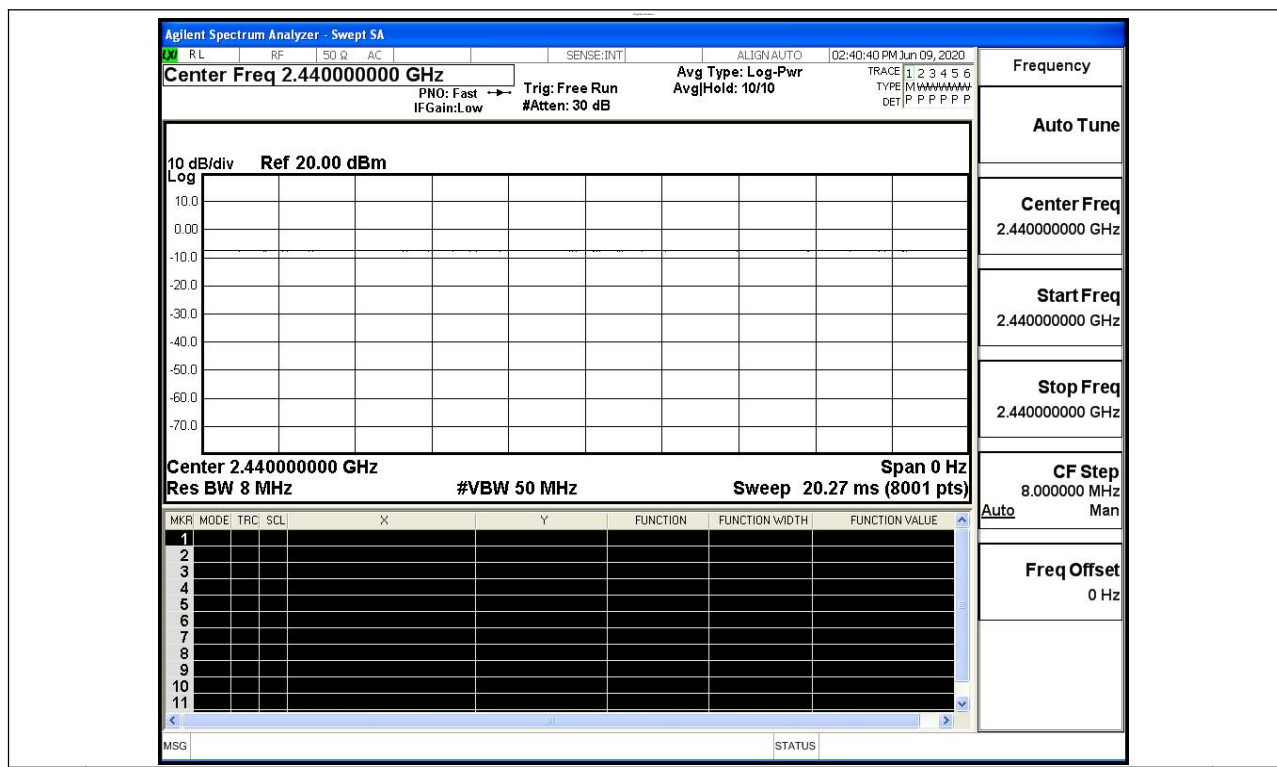
Test Model: HA8801S

Environmental Conditions

Temperature:	23.7 °C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Li Huan

B.1 Duty Cycle

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

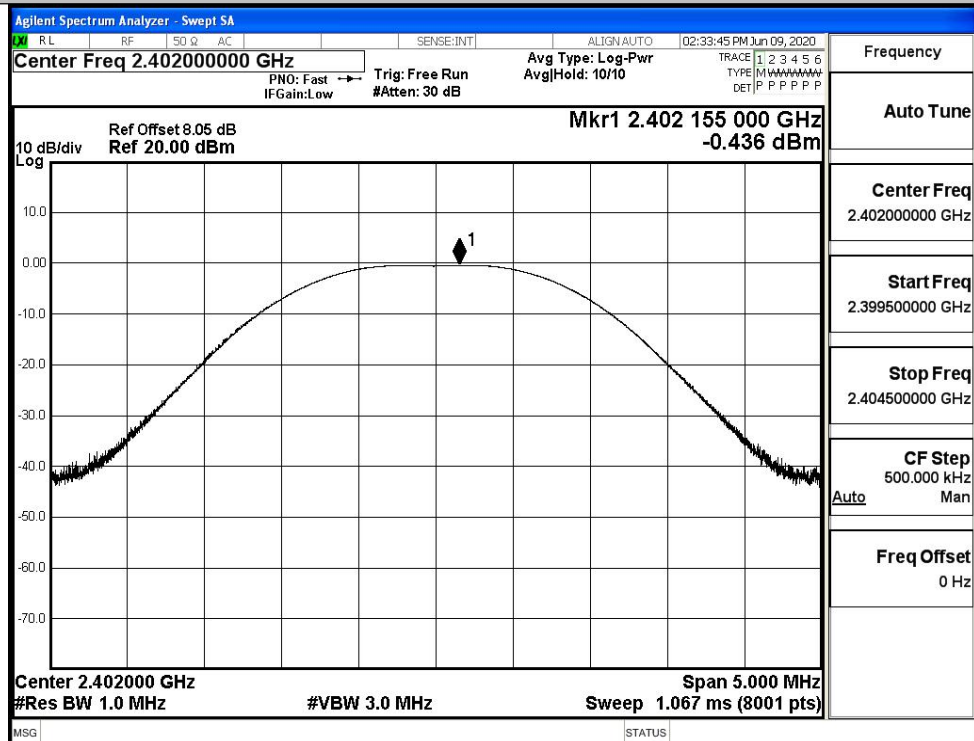


B.2 Maximum Conducted Peak Output Power

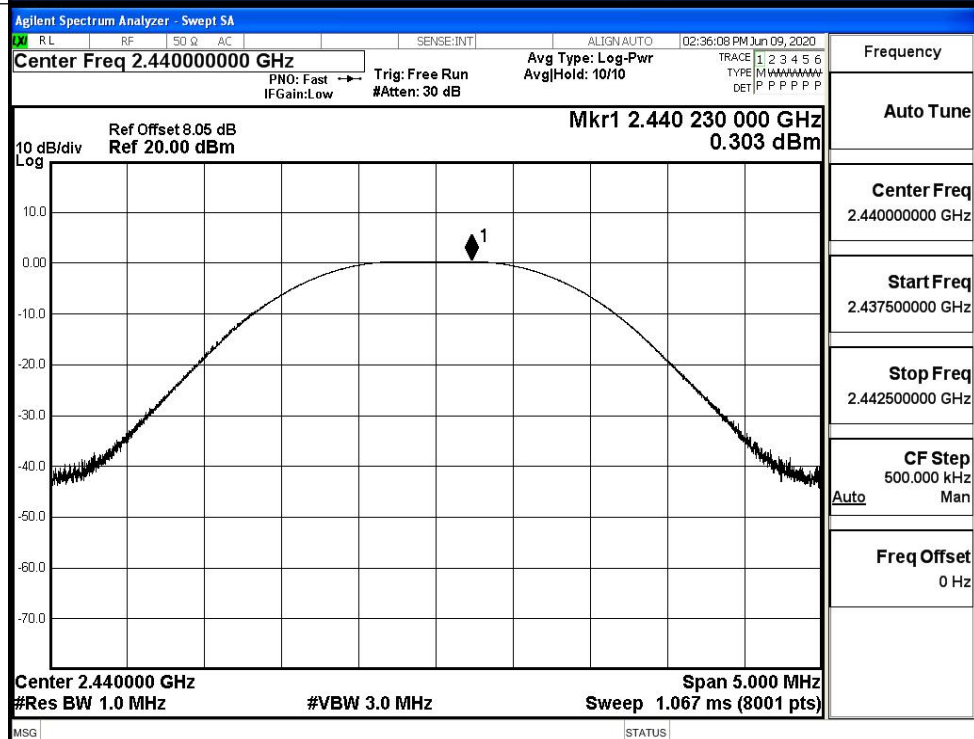
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.436	30	PASS
BT LE	MCH	0.303	30	PASS
BT LE	HCH	0.471	30	PASS

Test Graphs

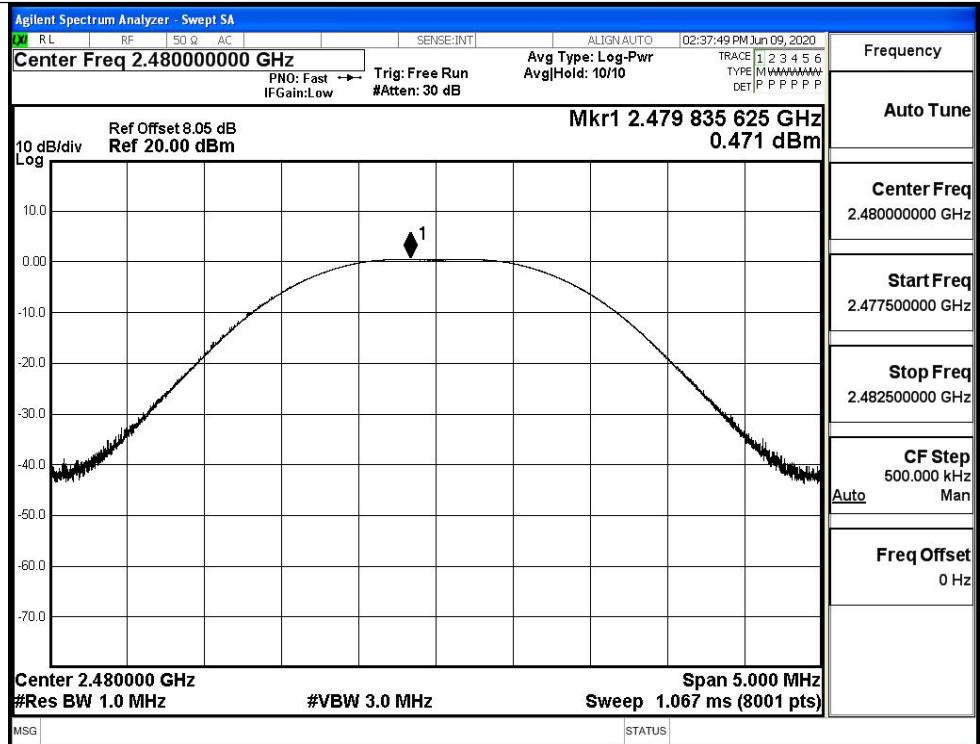
LCH



MCH



HCH

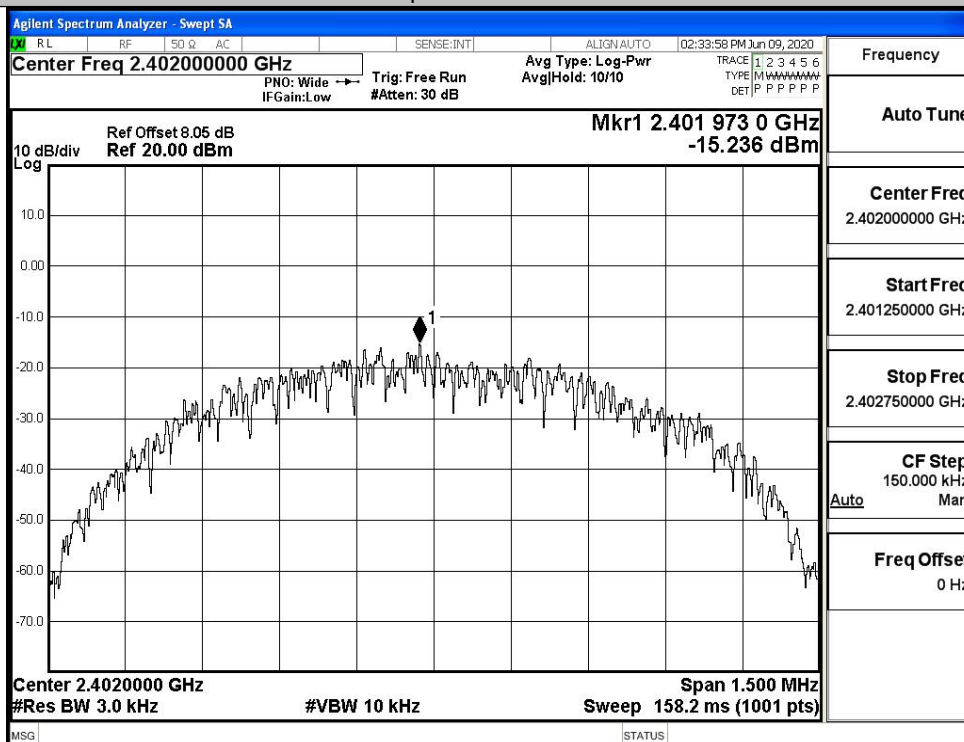


B.3 Maximum Power Spectral Density

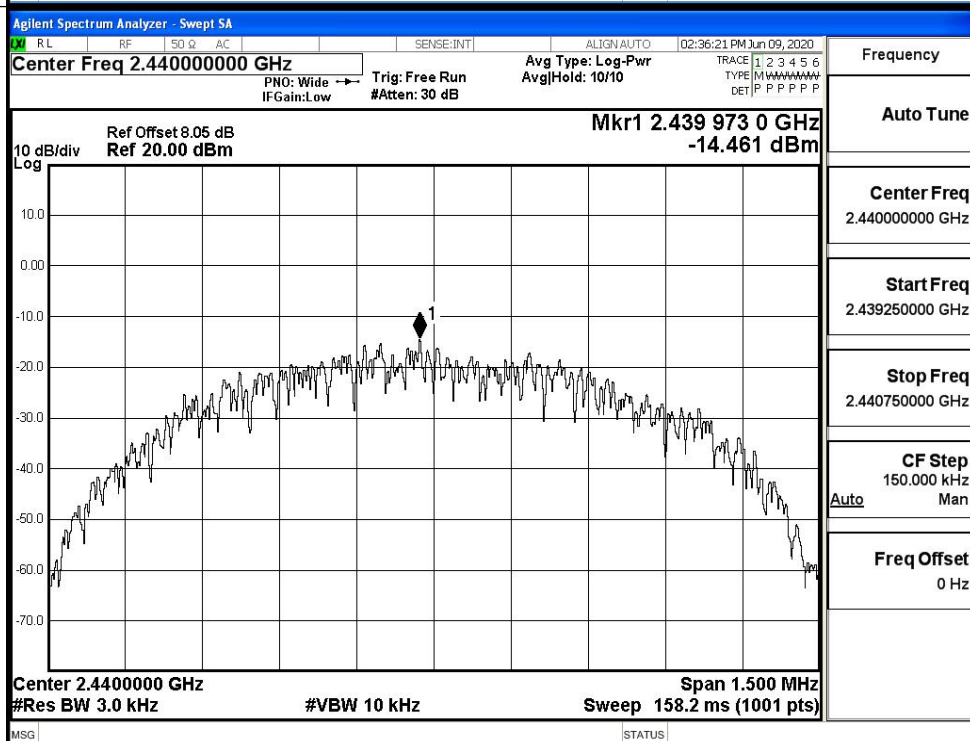
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.236	8	PASS
BT LE	MCH	-14.461	8	PASS
BT LE	HCH	-14.297	8	PASS

Test Graphs

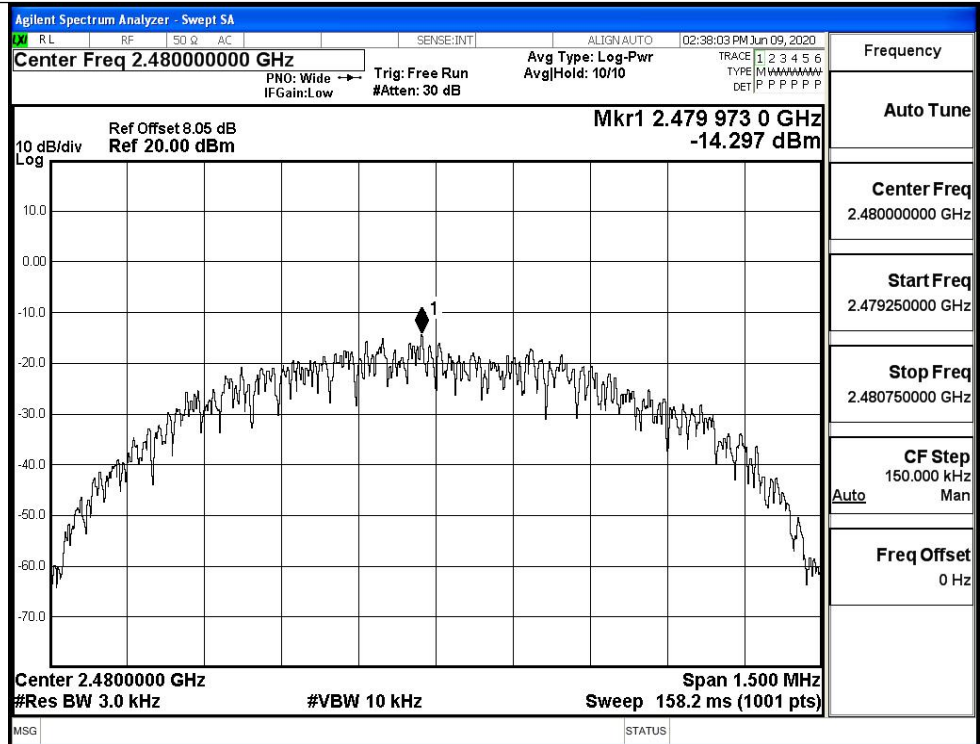
LCH



MCH



HCH

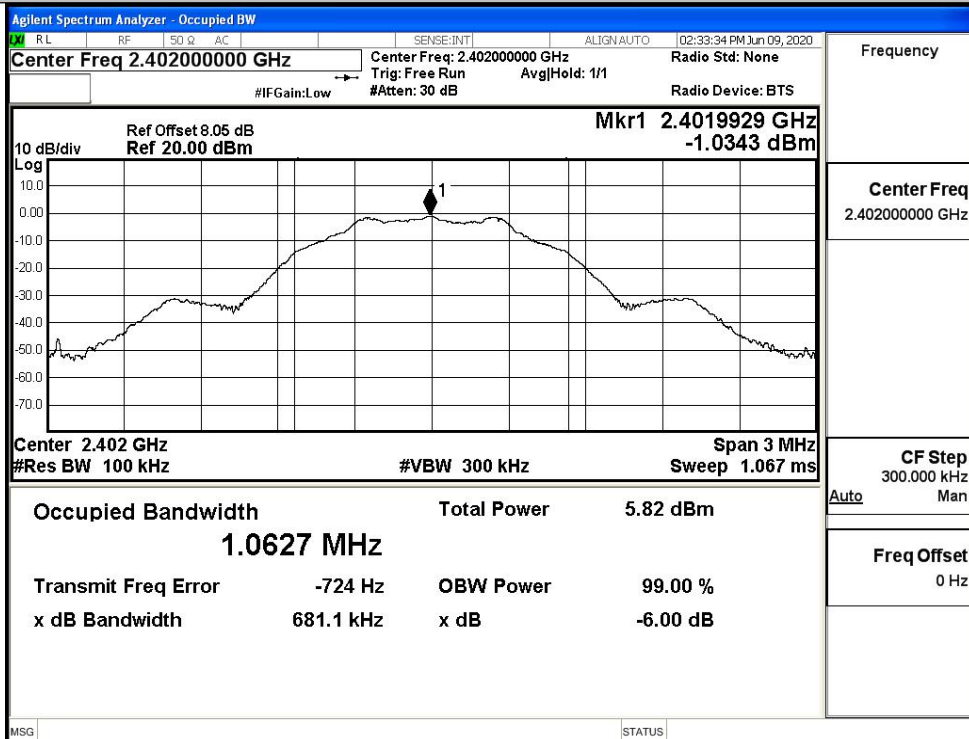


B.4 6dB Bandwidth

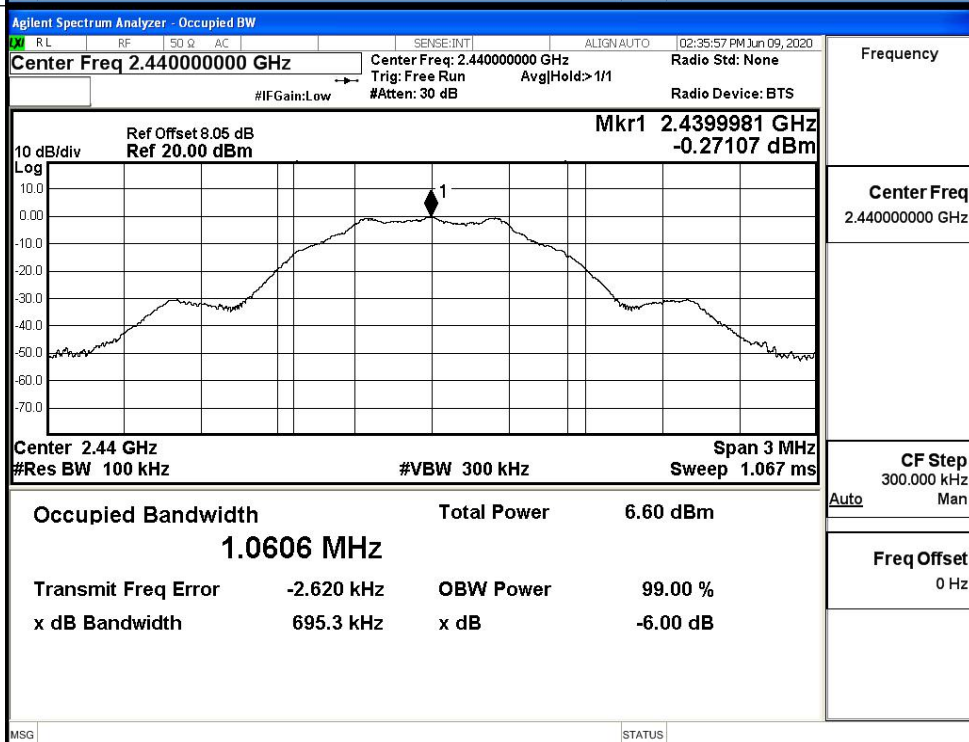
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6811	≥ 0.5	PASS
BT LE	MCH	0.6953	≥ 0.5	PASS
BT LE	HCH	0.6891	≥ 0.5	PASS

Test Graphs

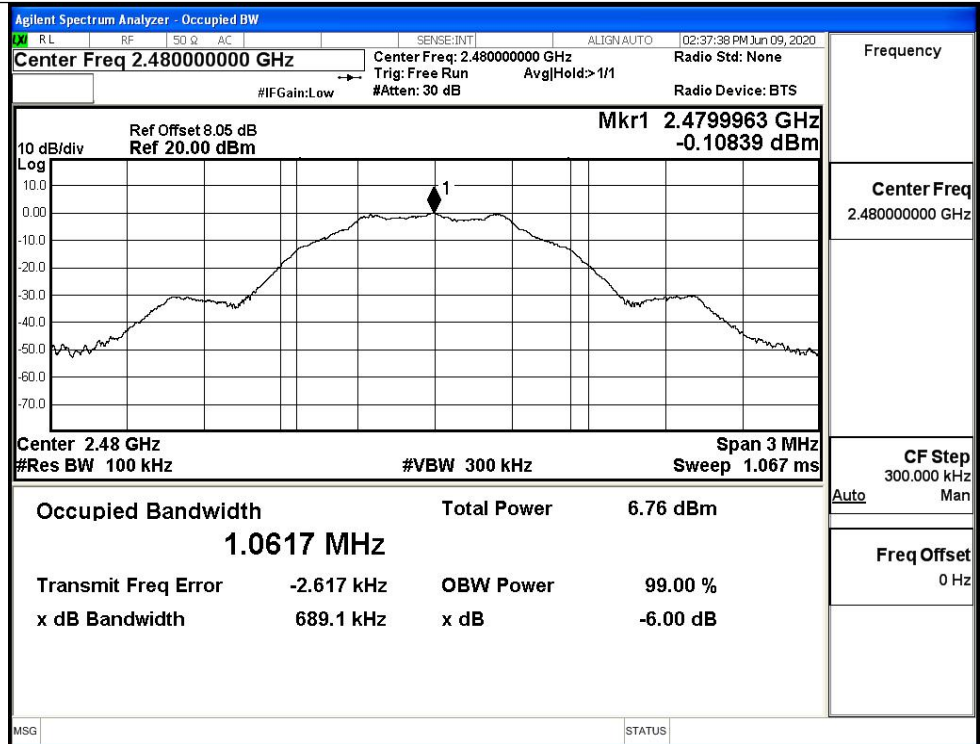
LCH



MCH



HCH

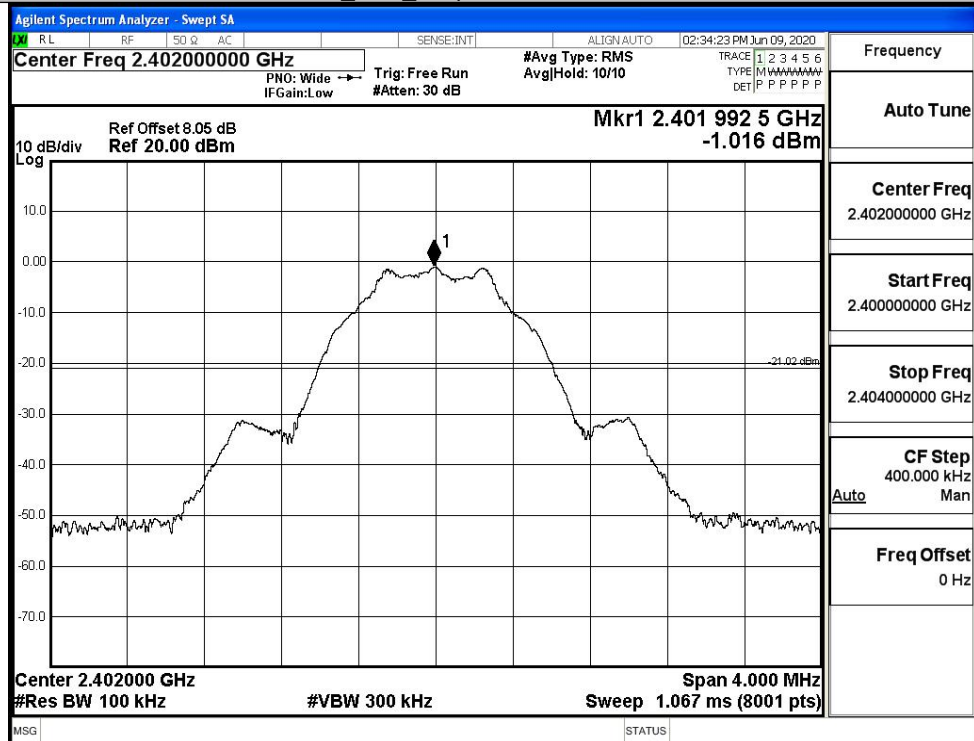


B.5 RF Conducted Spurious Emissions

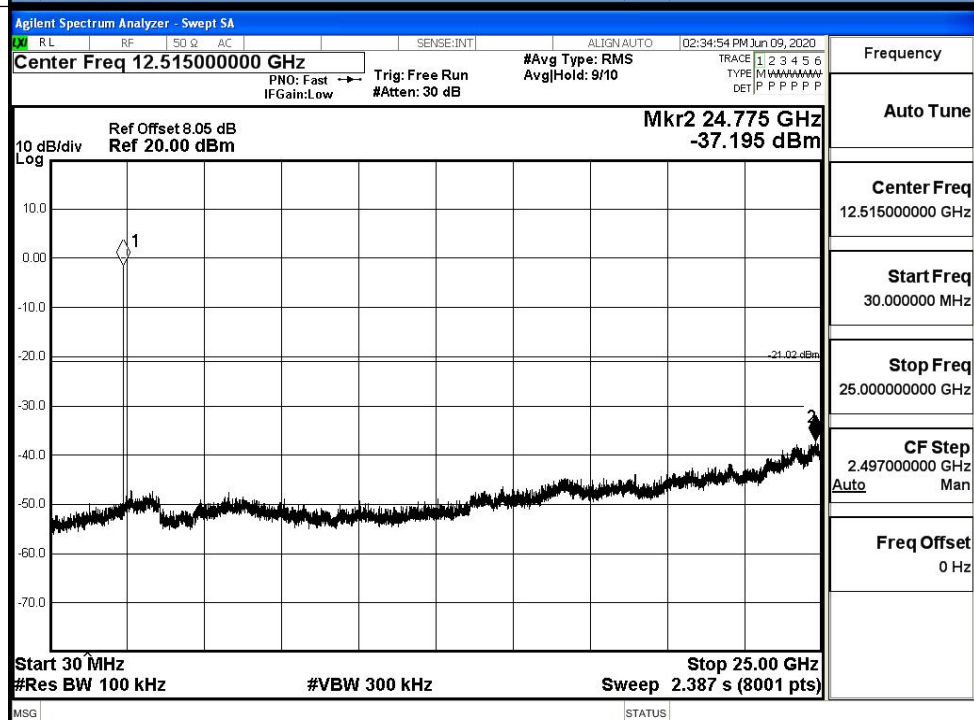
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.016	-37.195	-21.016	PASS
BT LE	MCH	-0.242	-37.474	-20.242	PASS
BT LE	HCH	-0.092	-36.971	-20.092	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

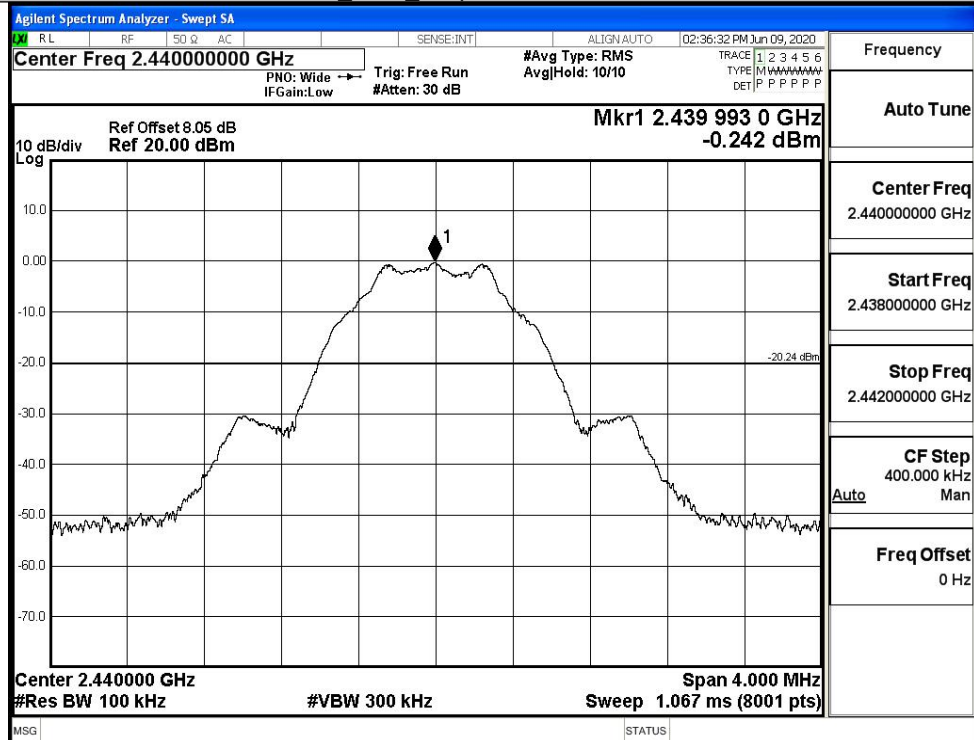


Puw/BT LE/LCH

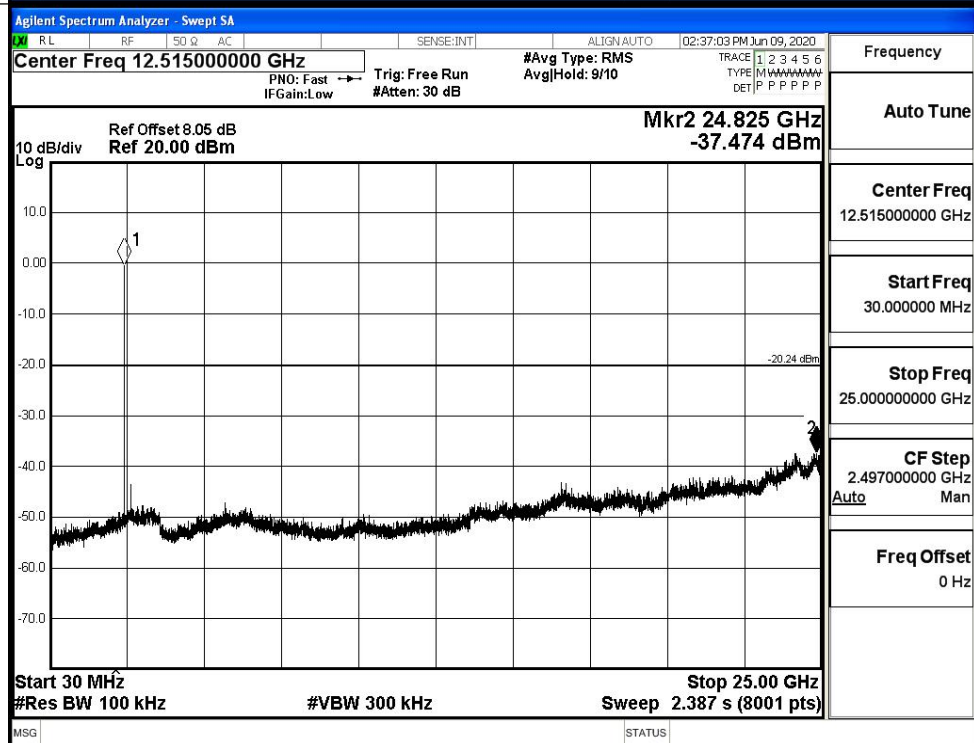


BT LE MCH Graphs

Pref/BT LE/MCH

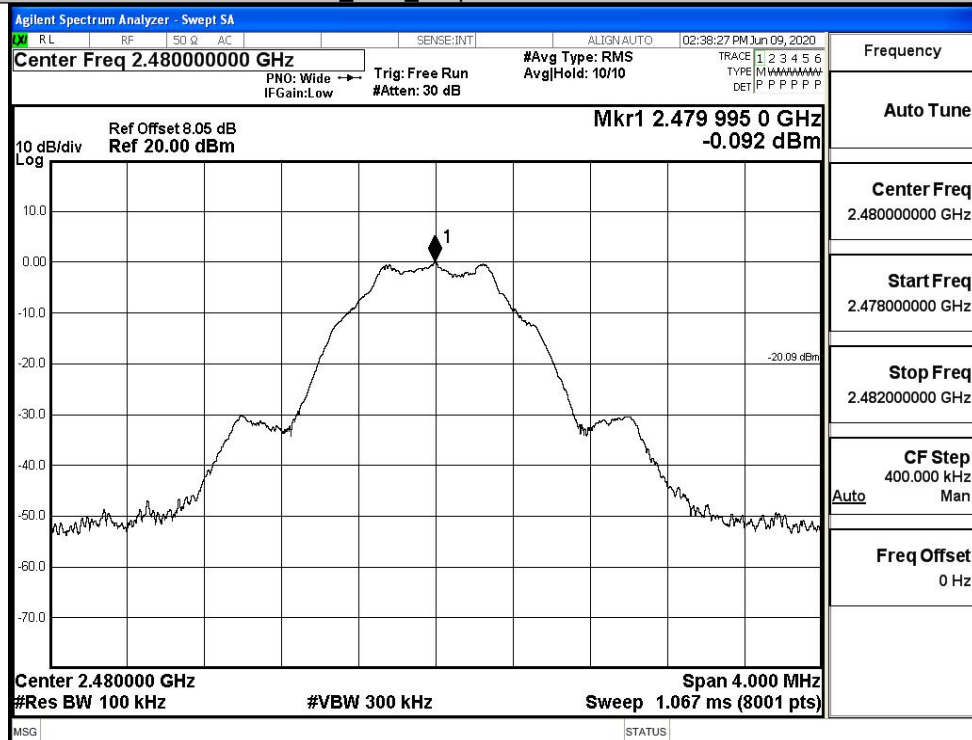


Puw/BT LE/MCH

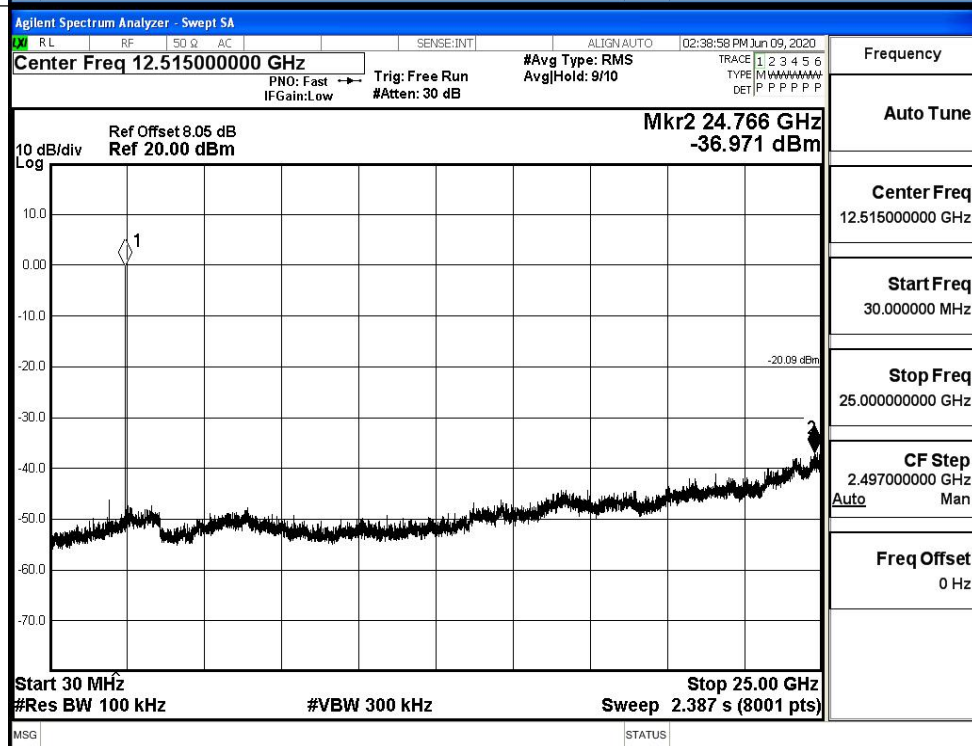


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

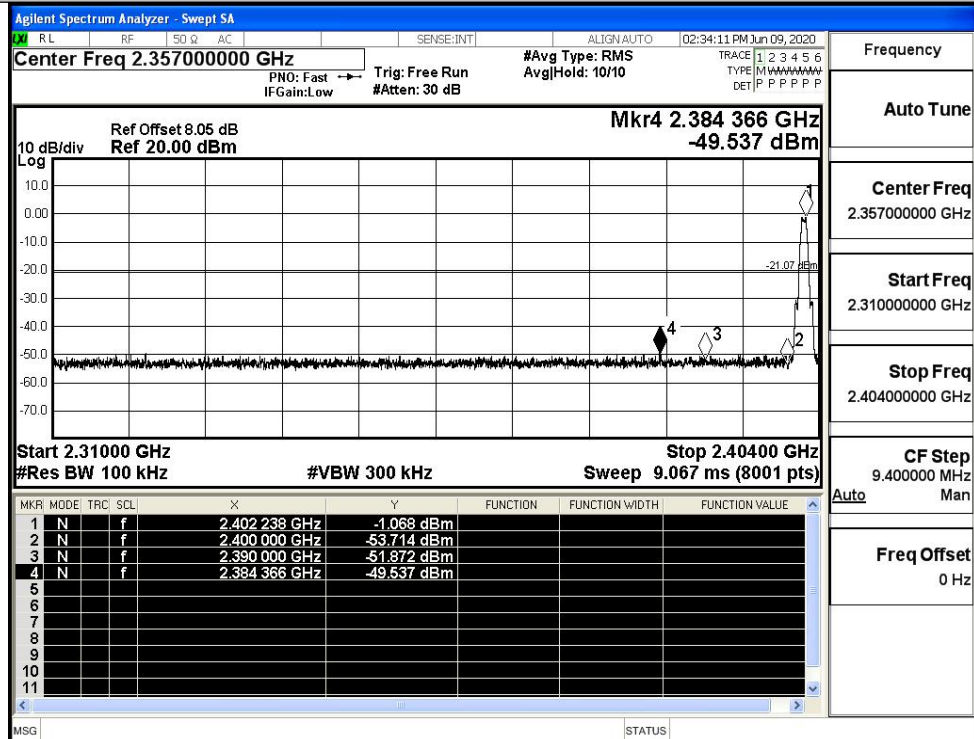


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.068	-49.537	-21.07	PASS
BT LE	HCH	-0.032	-49.507	-20.03	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

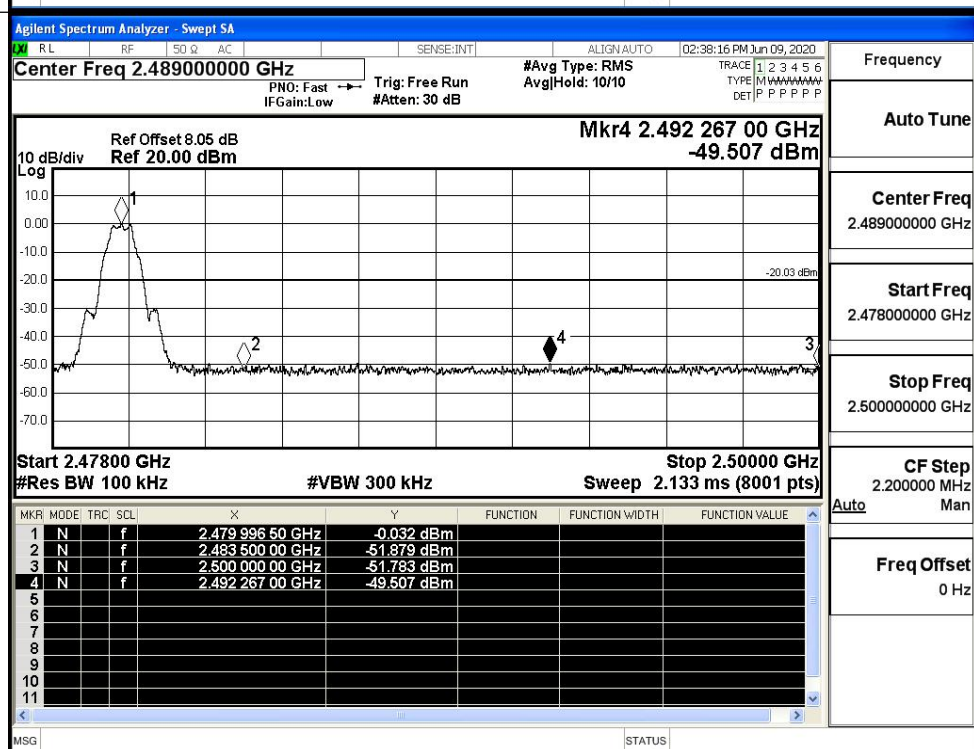
9.400000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.489000000 GHz

Start Freq

2.478000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.200000 MHz

Auto Man

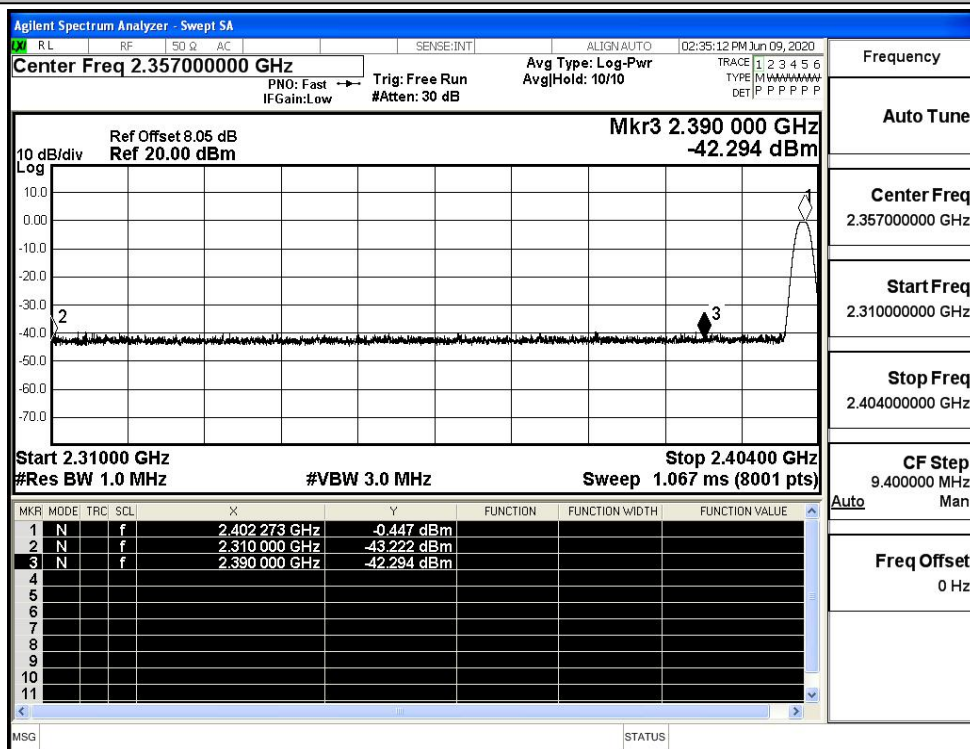
Freq Offset

0 Hz

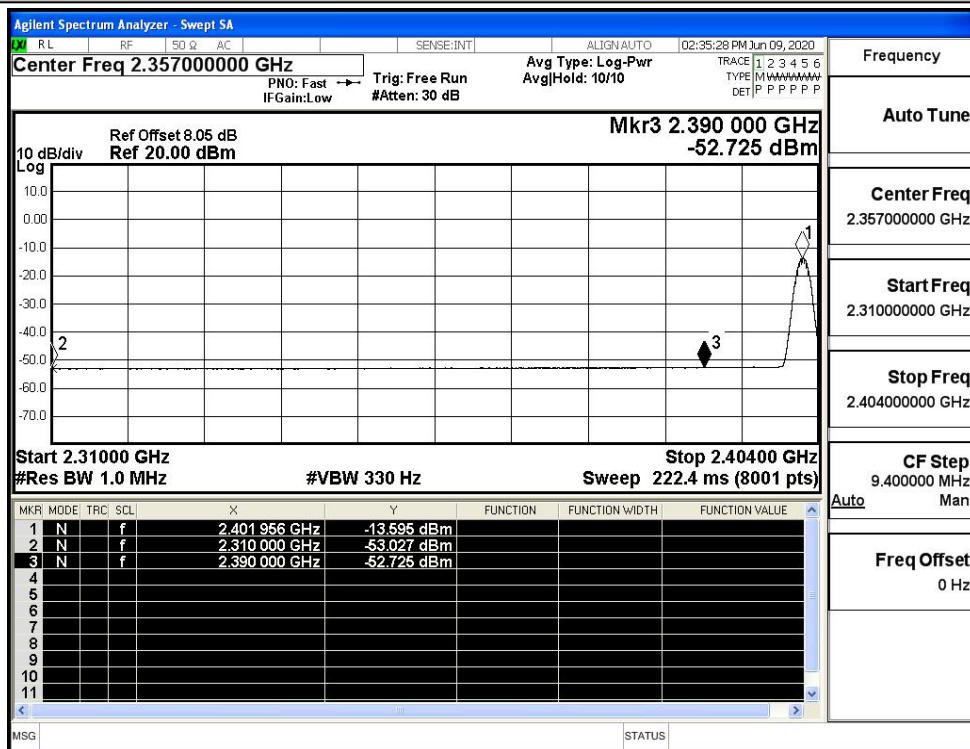
B.7 Restrict-band band-edge measurements

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	-43.22	2.0	0	54.04	PEAK	74	PASS
		Ant1	2310.0	-53.03	2.0	0	44.23	AV	54	PASS
		Ant1	2390.0	-42.29	2.0	0	54.96	PEAK	74	PASS
		Ant1	2390.0	-52.73	2.0	0	44.53	AV	54	PASS
	2480	Ant1	2483.5	-42.10	2.0	0	55.15	PEAK	74	PASS
		Ant1	2483.5	-52.15	2.0	0	45.11	AV	54	PASS
		Ant1	2500.0	-41.51	2.0	0	55.75	PEAK	74	PASS
		Ant1	2500.0	-51.91	2.0	0	45.35	AV	54	PASS

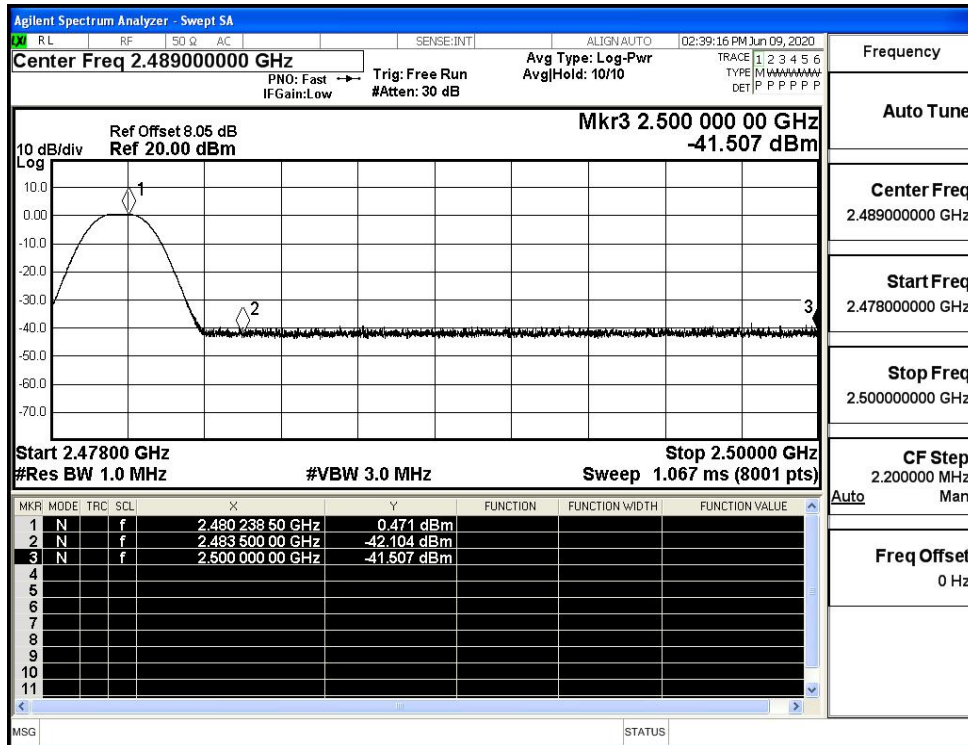
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

