

Appendix B

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

Product Name: ACOUSTIC AUITAR AMP

Trade Mark: AROMA

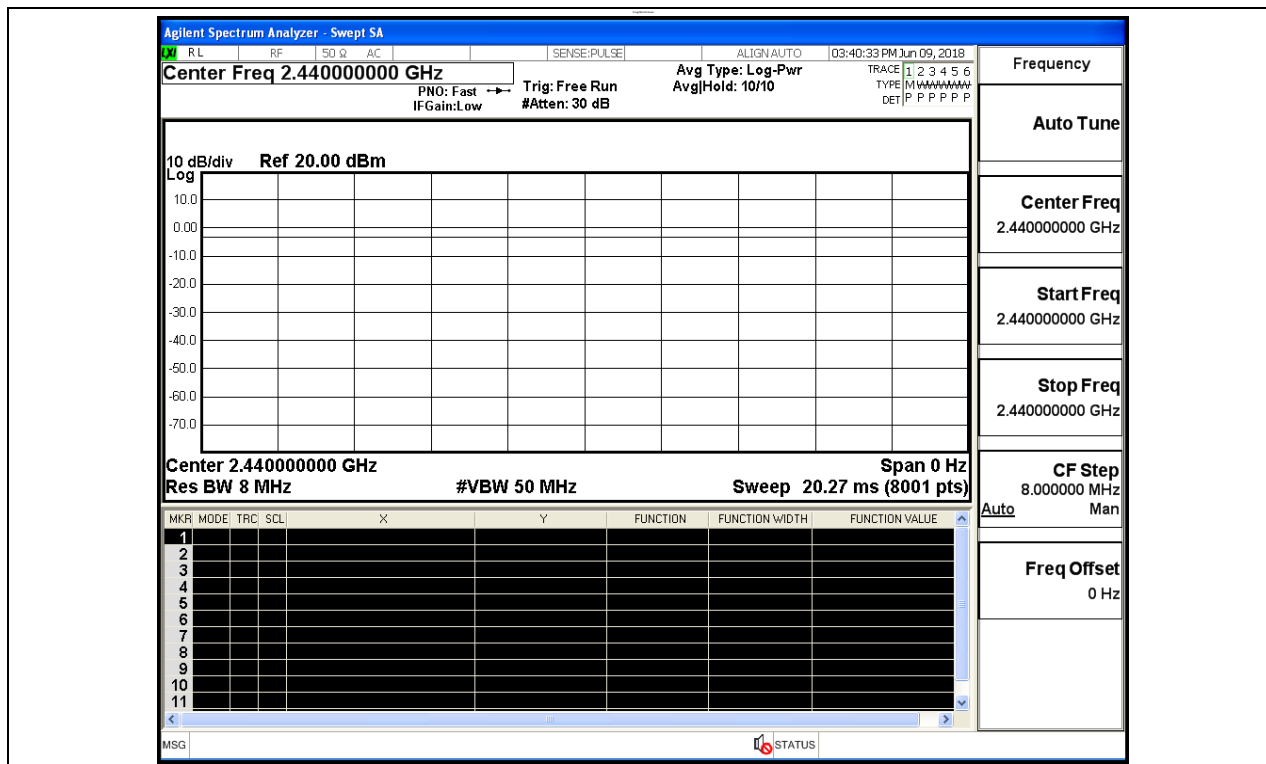
Test Model: AG-15A

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden.Zhuo

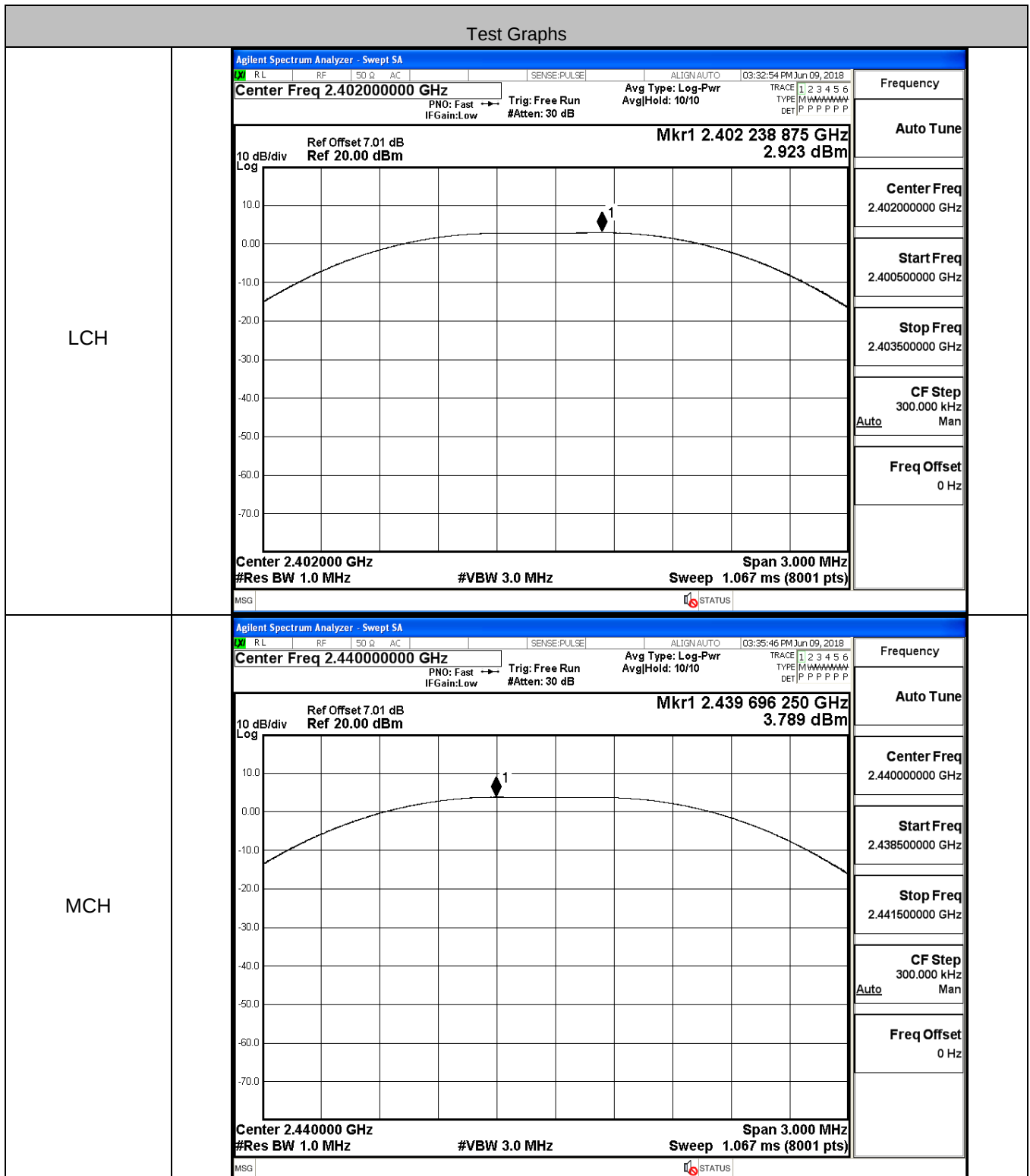
B.1 Duty Cycle

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

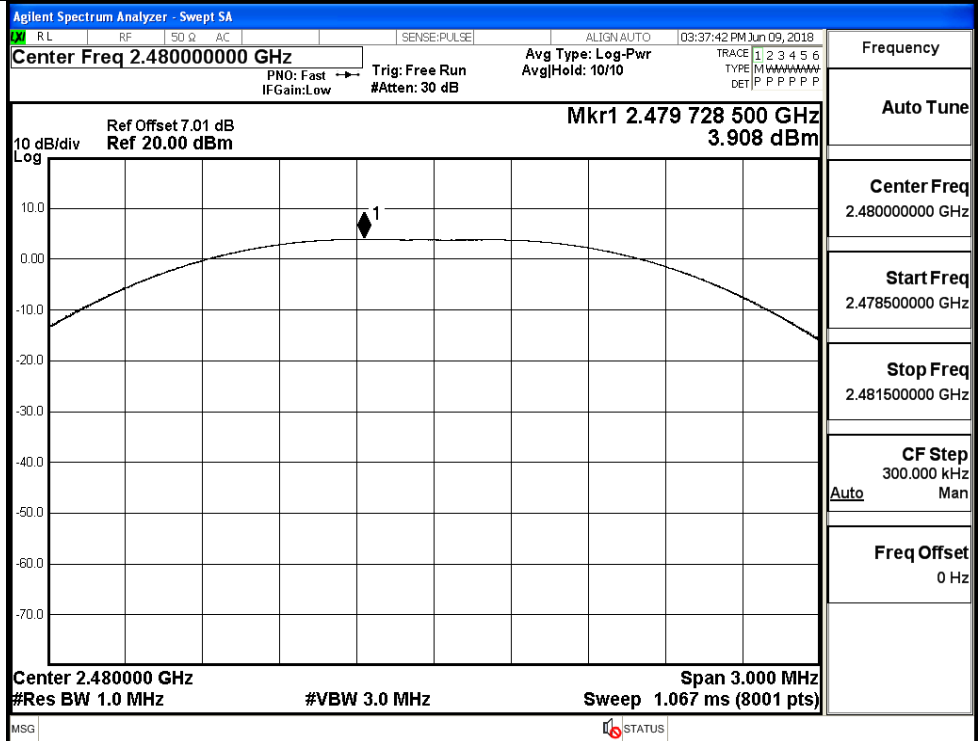


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.923	30	PASS
BT LE	MCH	3.789	30	PASS
BT LE	HCH	3.908	30	PASS



HCH

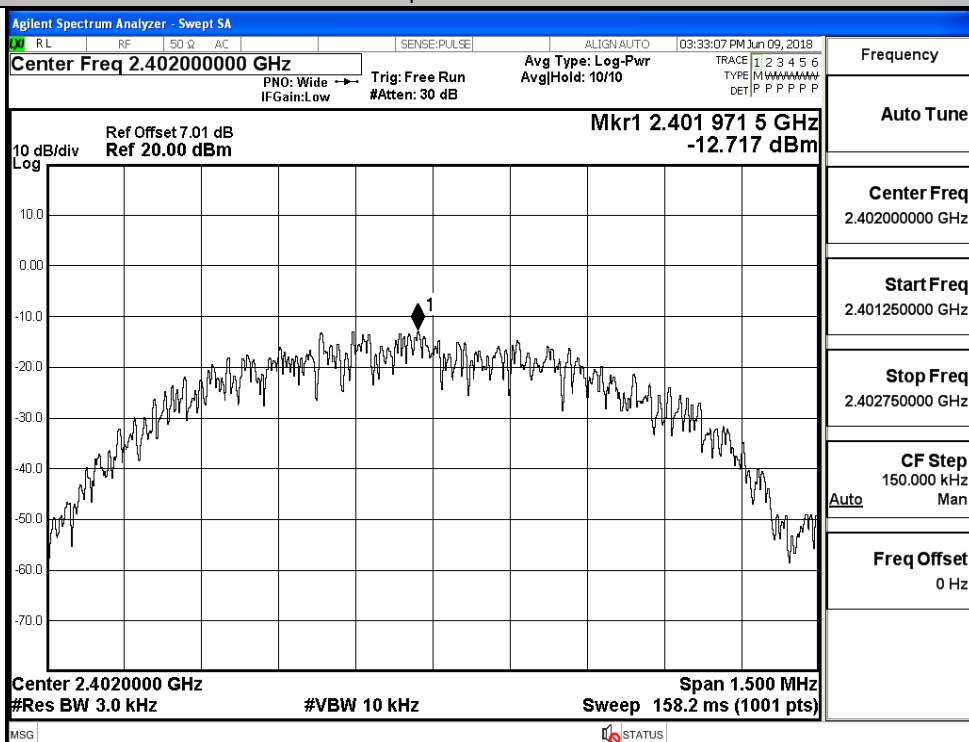


B.3 Maximum Power Spectral Density

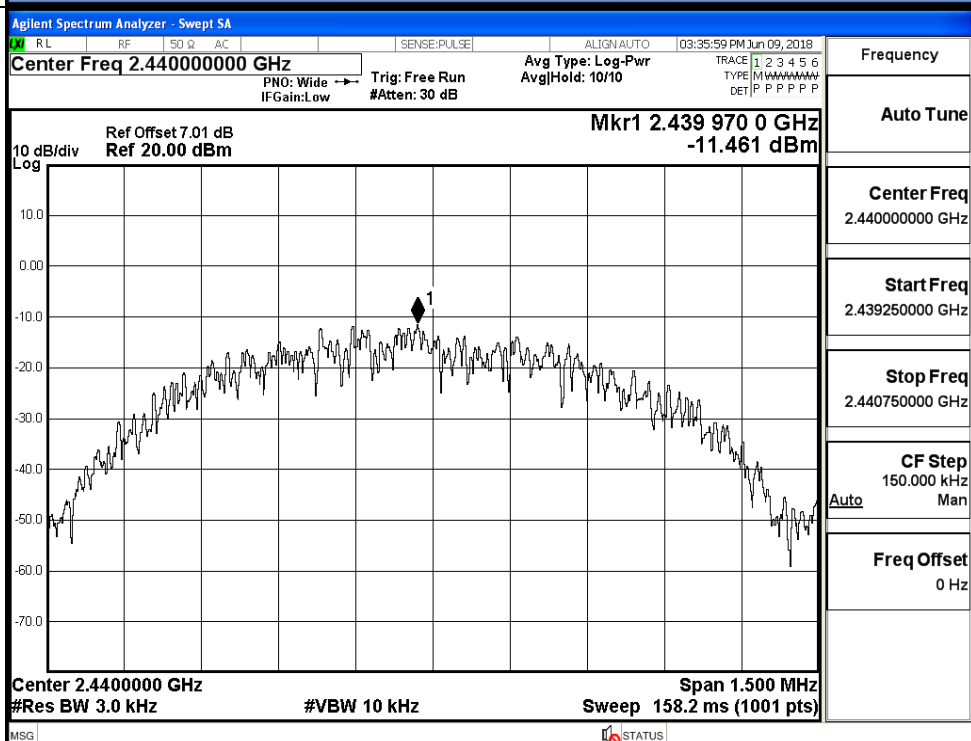
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-12.717	8	PASS
BT LE	MCH	-11.461	8	PASS
BT LE	HCH	-11.276	8	PASS

Test Graphs

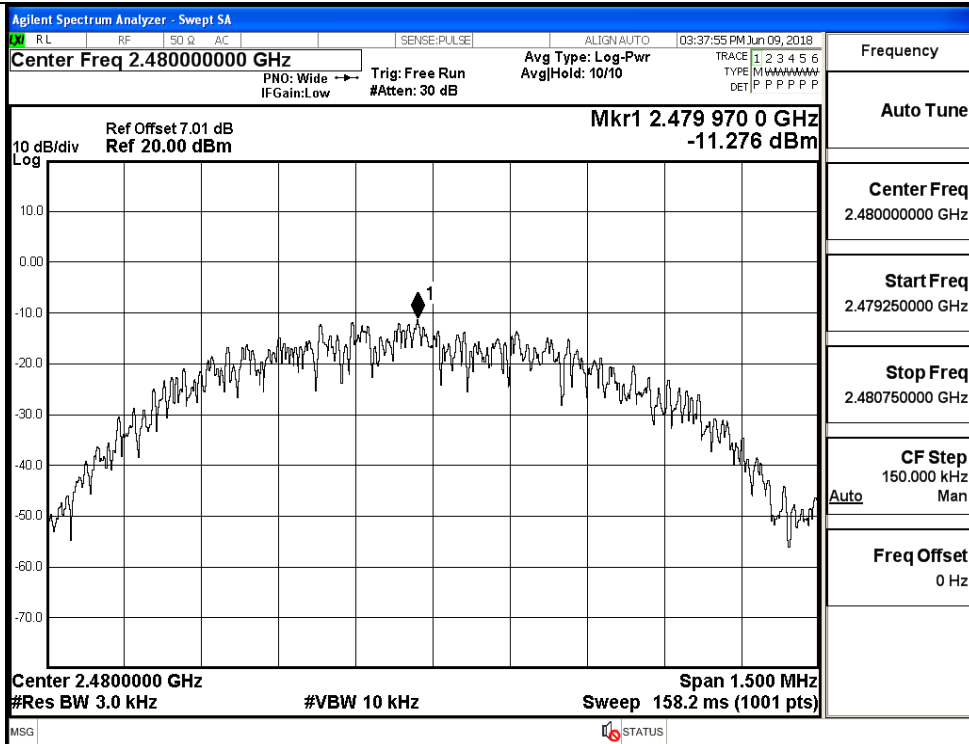
LCH



MCH



HCH

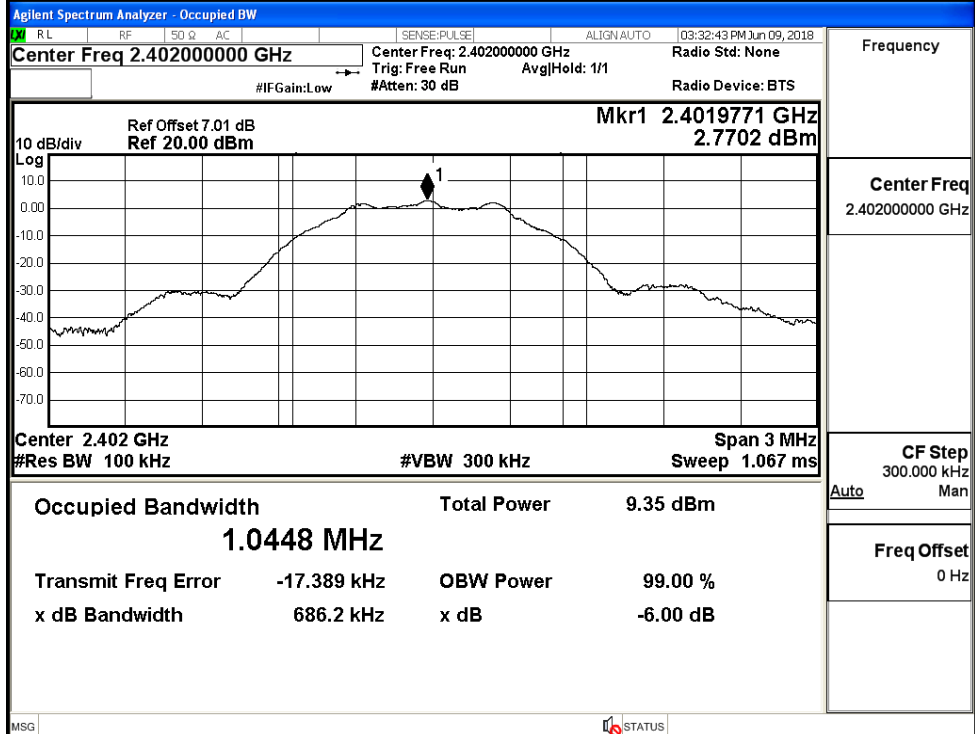


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6862	≥ 0.5	PASS
BT LE	MCH	0.6841	≥ 0.5	PASS
BT LE	HCH	0.6833	≥ 0.5	PASS

Test Graphs

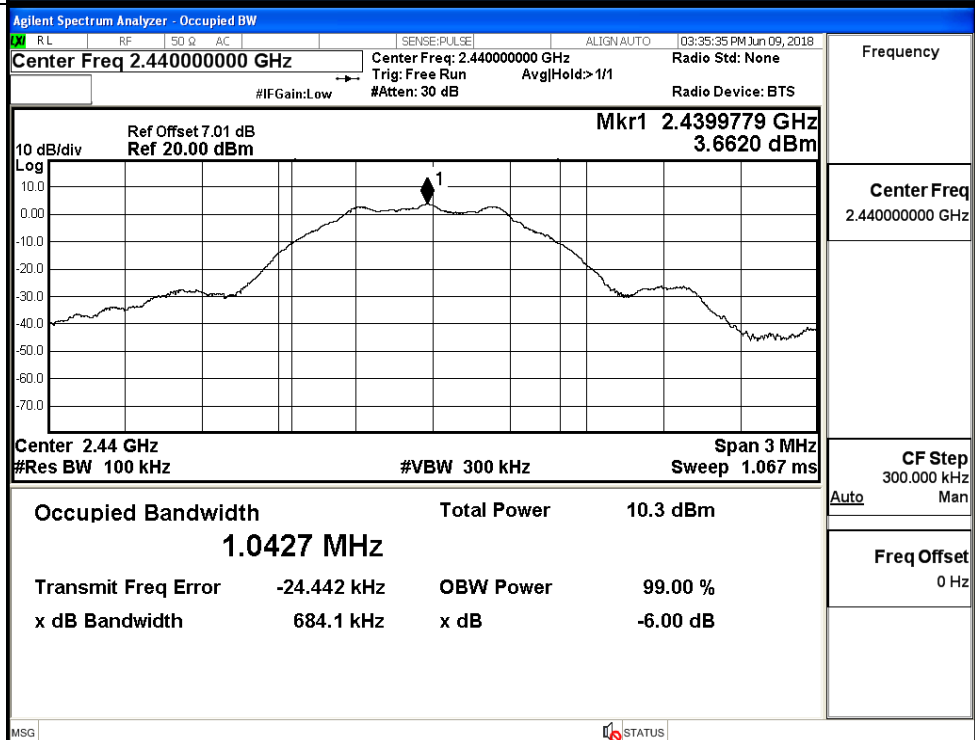
LCH



Frequency

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

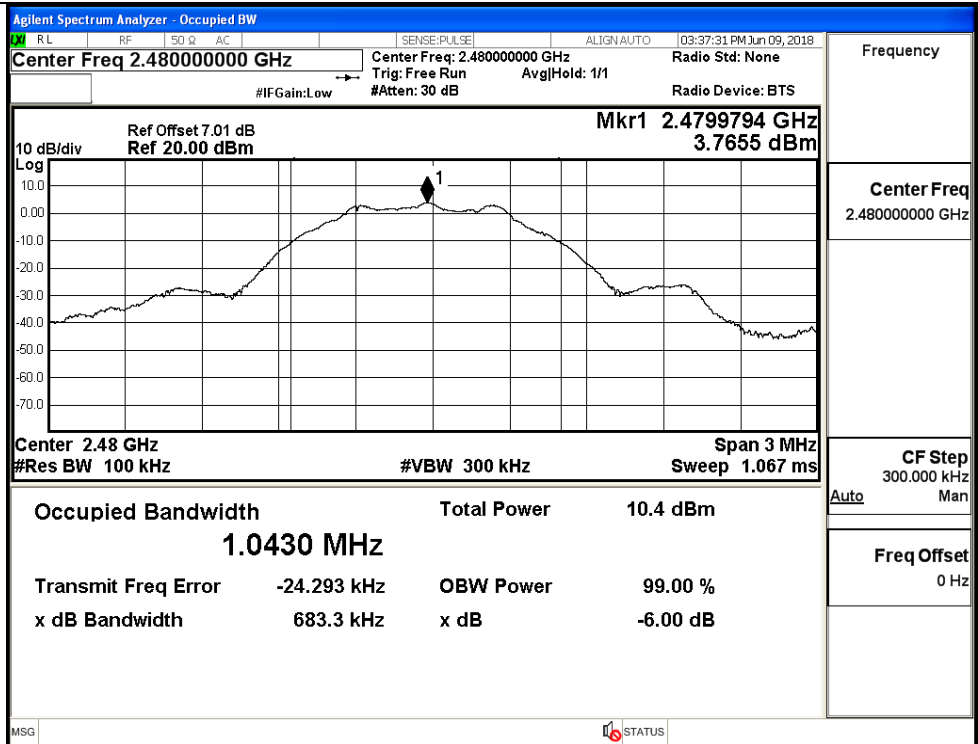
MCH



Frequency

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

HCH

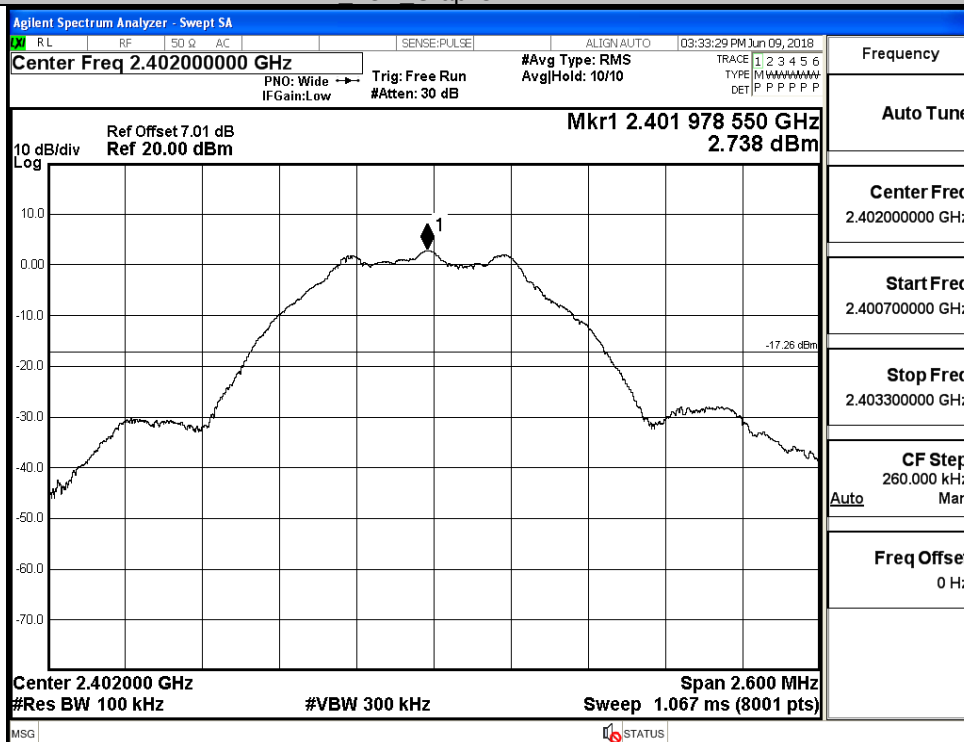


B.5 RF Conducted Spurious Emissions

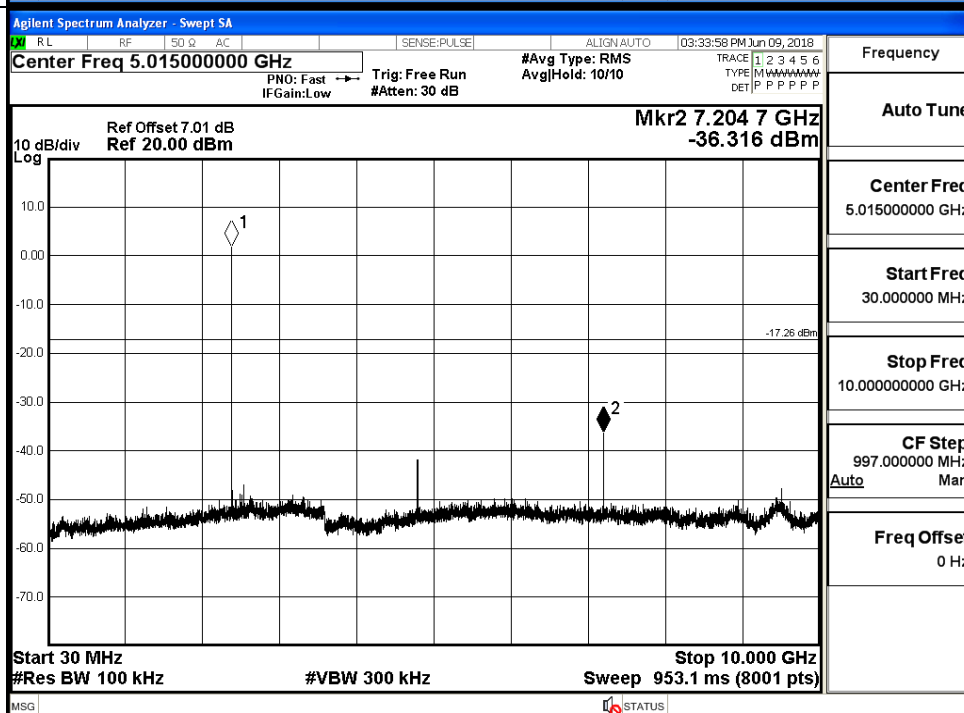
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.738	-36.316	-17.262	PASS
BT LE	MCH	3.643	-27.756	-16.357	PASS
BT LE	HCH	3.771	-30.091	-16.229	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

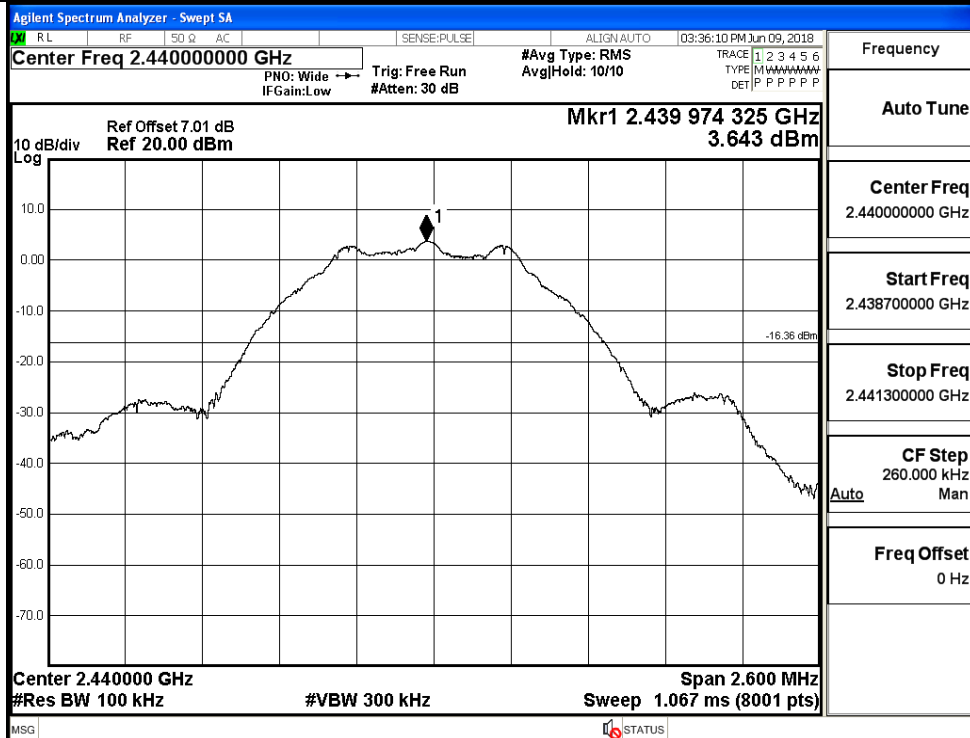


Puw/BT LE/LCH

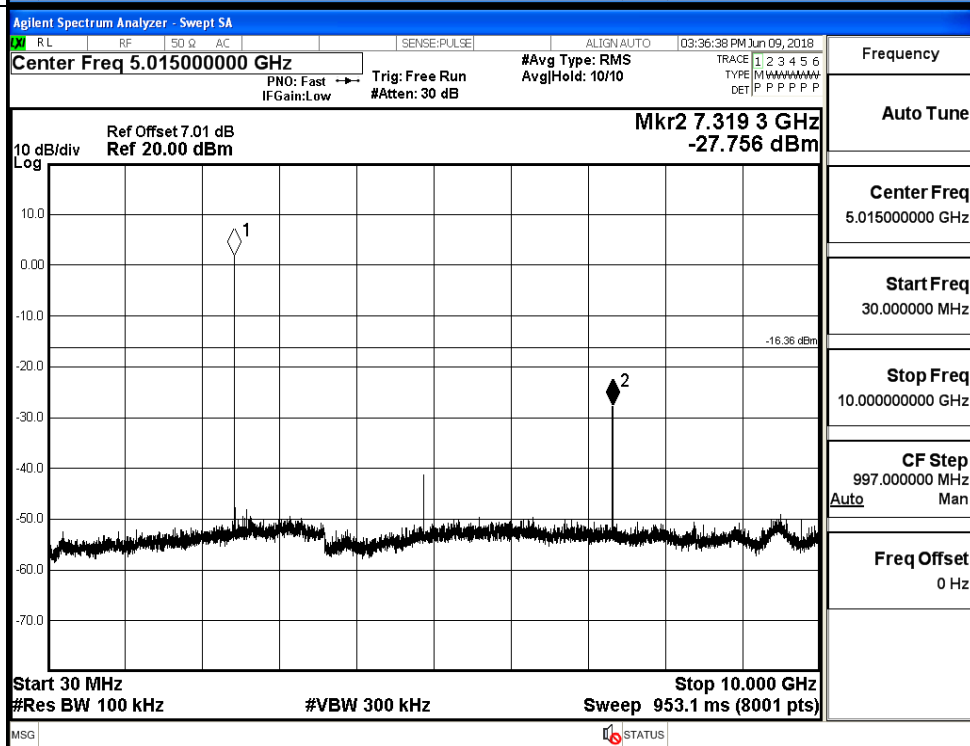


BT LE MCH Graphs

Pref/BT LE/MCH

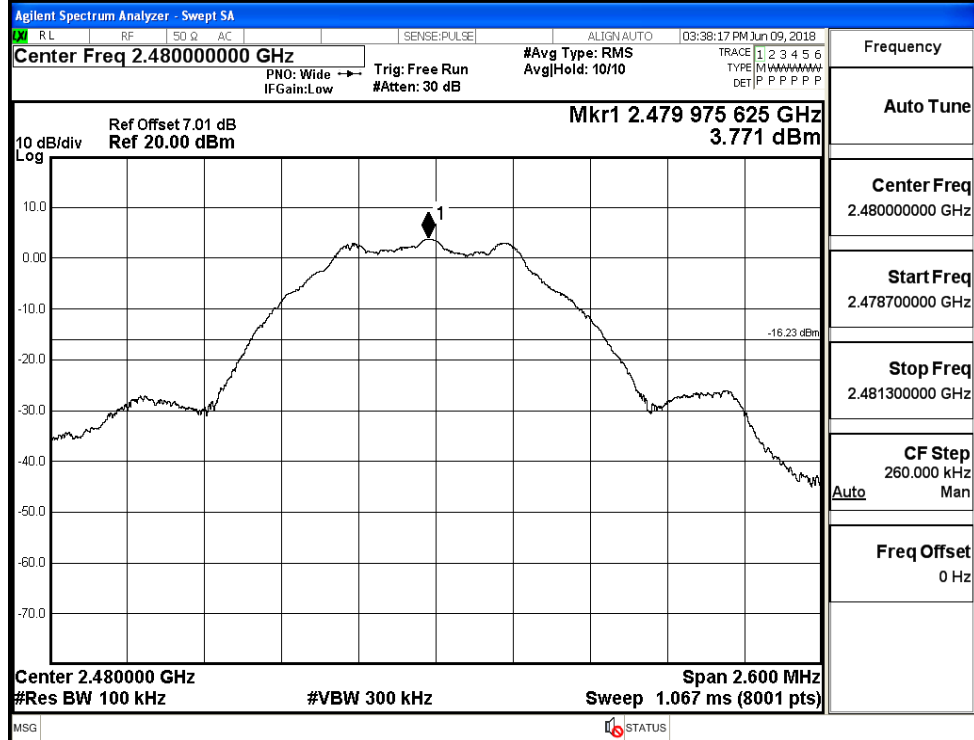


Puw/BT LE/MCH

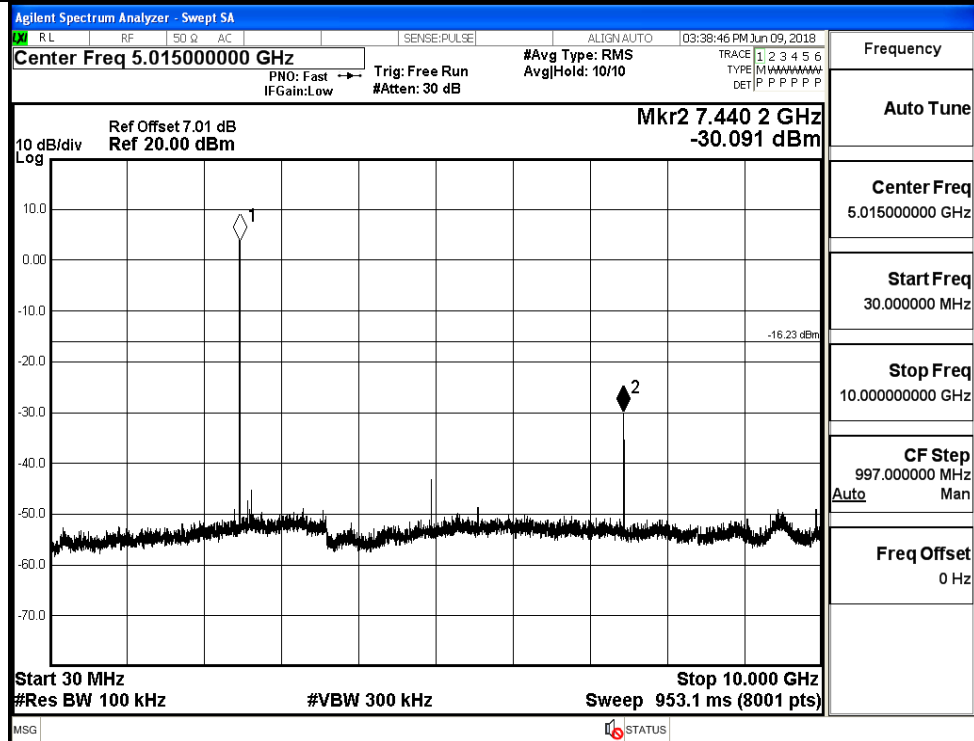


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

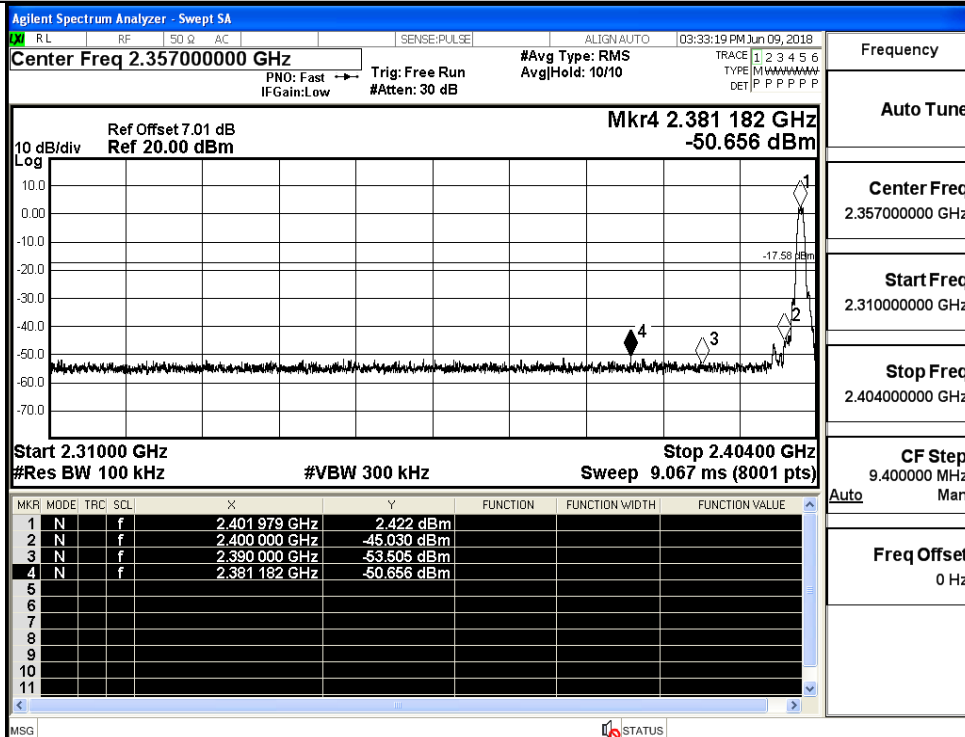


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.422	-50.656	-17.58	PASS
BT LE	HCH	3.904	-50.732	-16.1	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

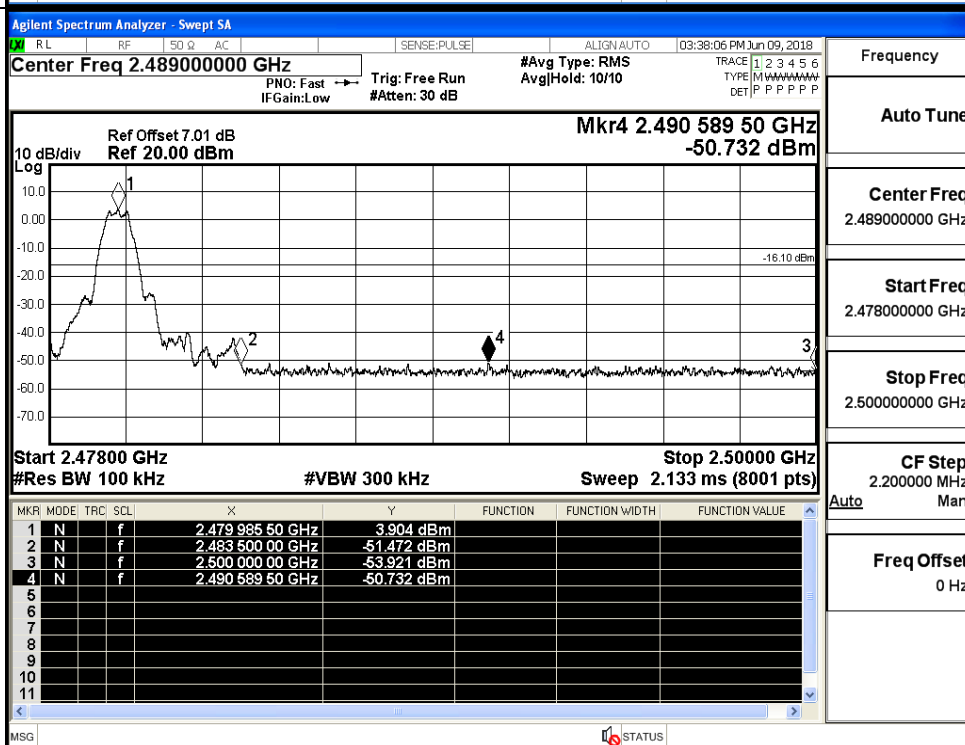
9.400000 MHz

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

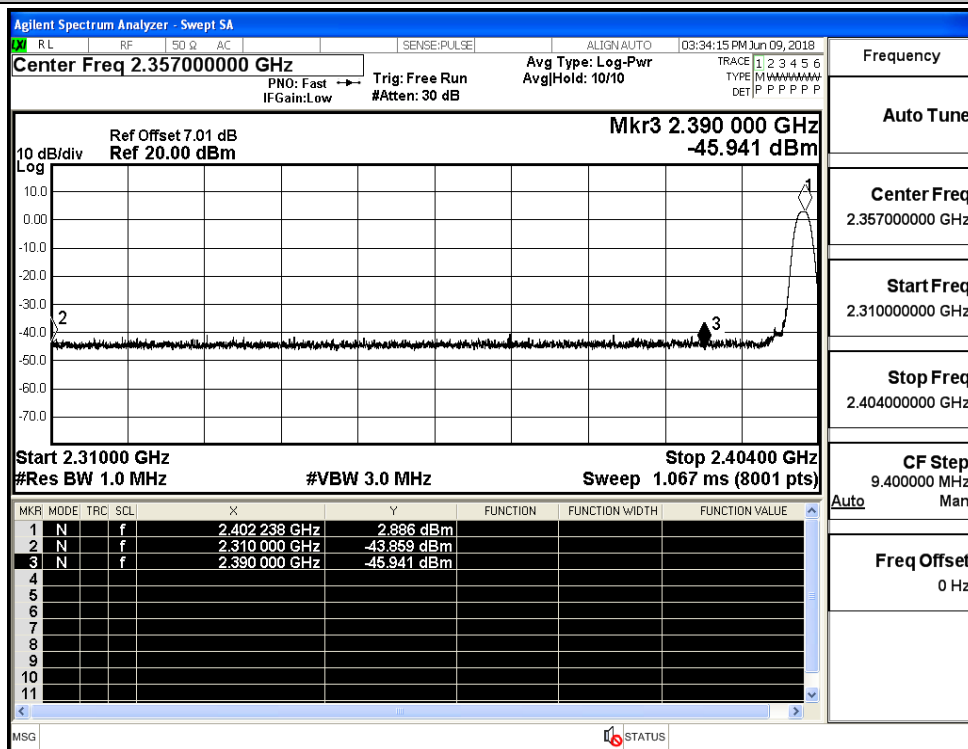
Freq Offset

0 Hz

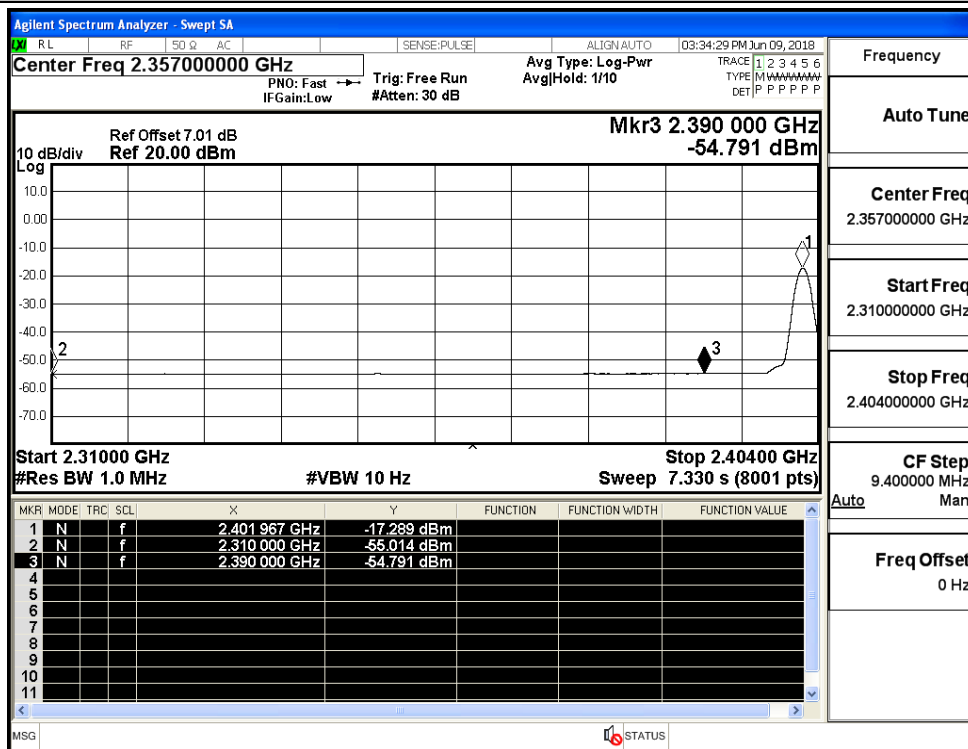
B.7 Restrict-band band-edge measurements

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	-43.86	2.0	0	51.40	PEAK	74	PASS
		Ant1	2310.0	-55.01	2.0	0	40.24	AV	54	PASS
		Ant1	2390.0	-45.94	2.0	0	49.32	PEAK	74	PASS
		Ant1	2390.0	-54.79	2.0	0	40.47	AV	54	PASS
	2480	Ant1	2483.5	-38.49	2.0	0	56.76	PEAK	74	PASS
		Ant1	2483.5	-51.71	2.0	0	43.55	AV	54	PASS
		Ant1	2500.0	-43.01	2.0	0	52.24	PEAK	74	PASS
		Ant1	2500.0	-54.42	2.0	0	40.84	AV	54	PASS

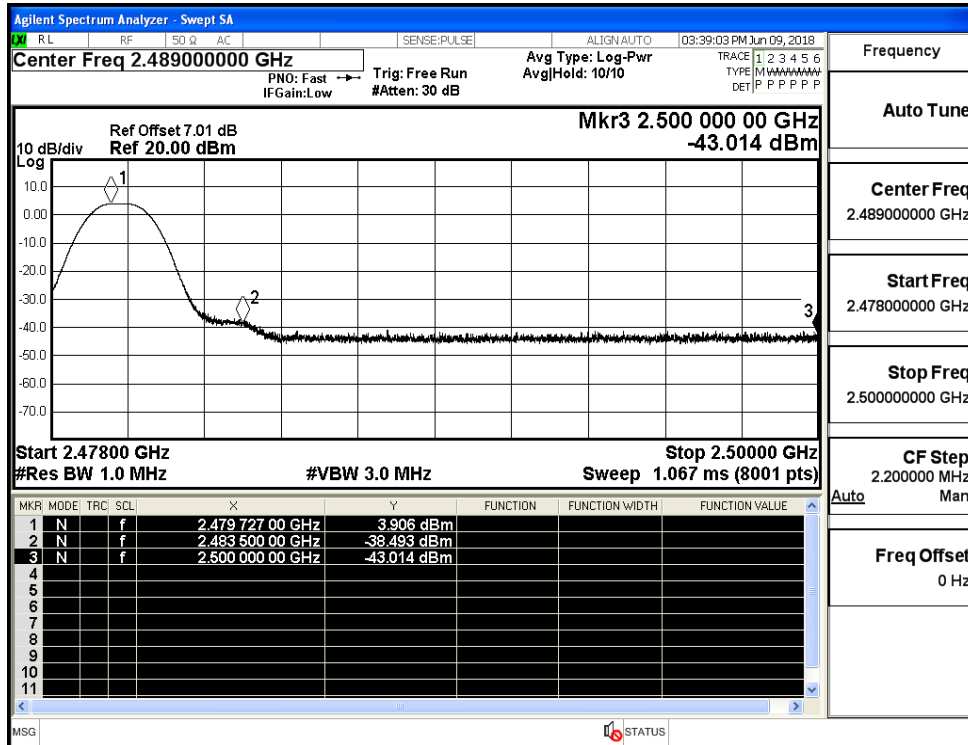
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

