

Appendix A

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

Product Name: Smart bracelet

Trade Mark: N/A

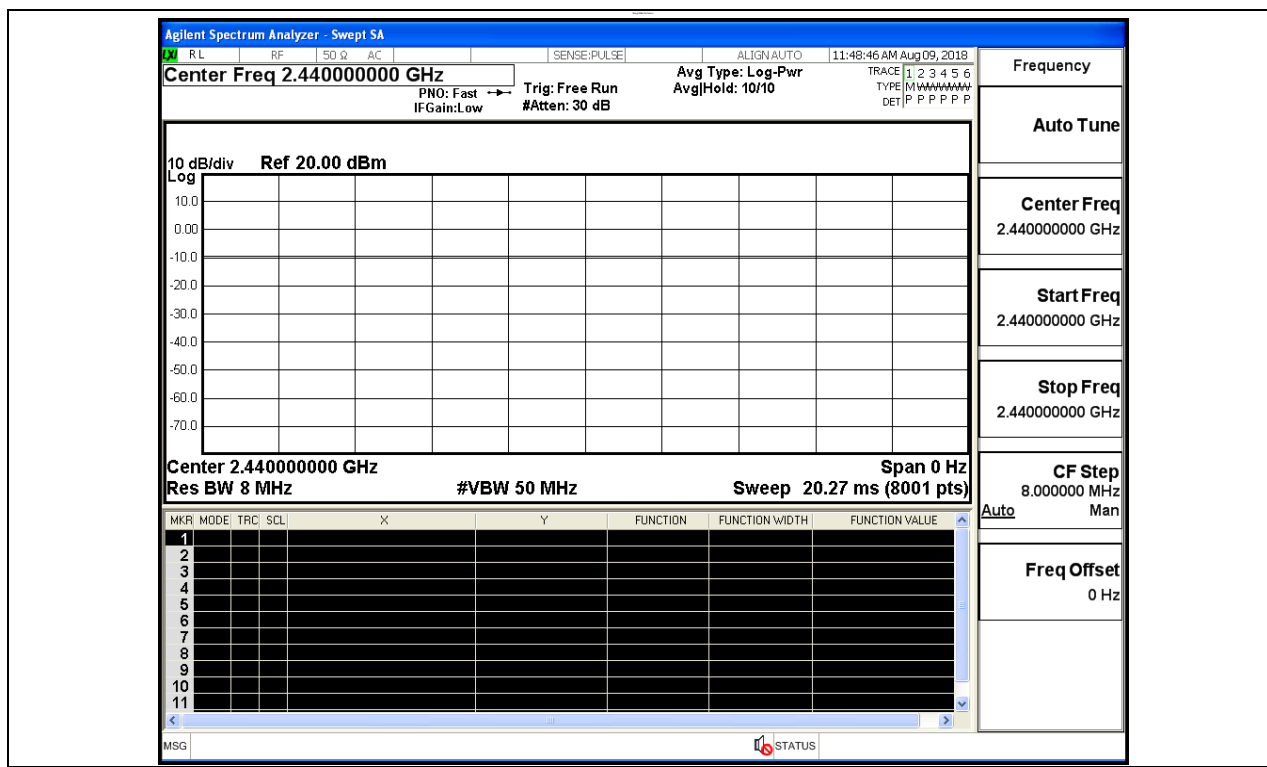
Test Model: H107

Environmental Conditions

Temperature:	24.3 ° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Jayden.Zhuo

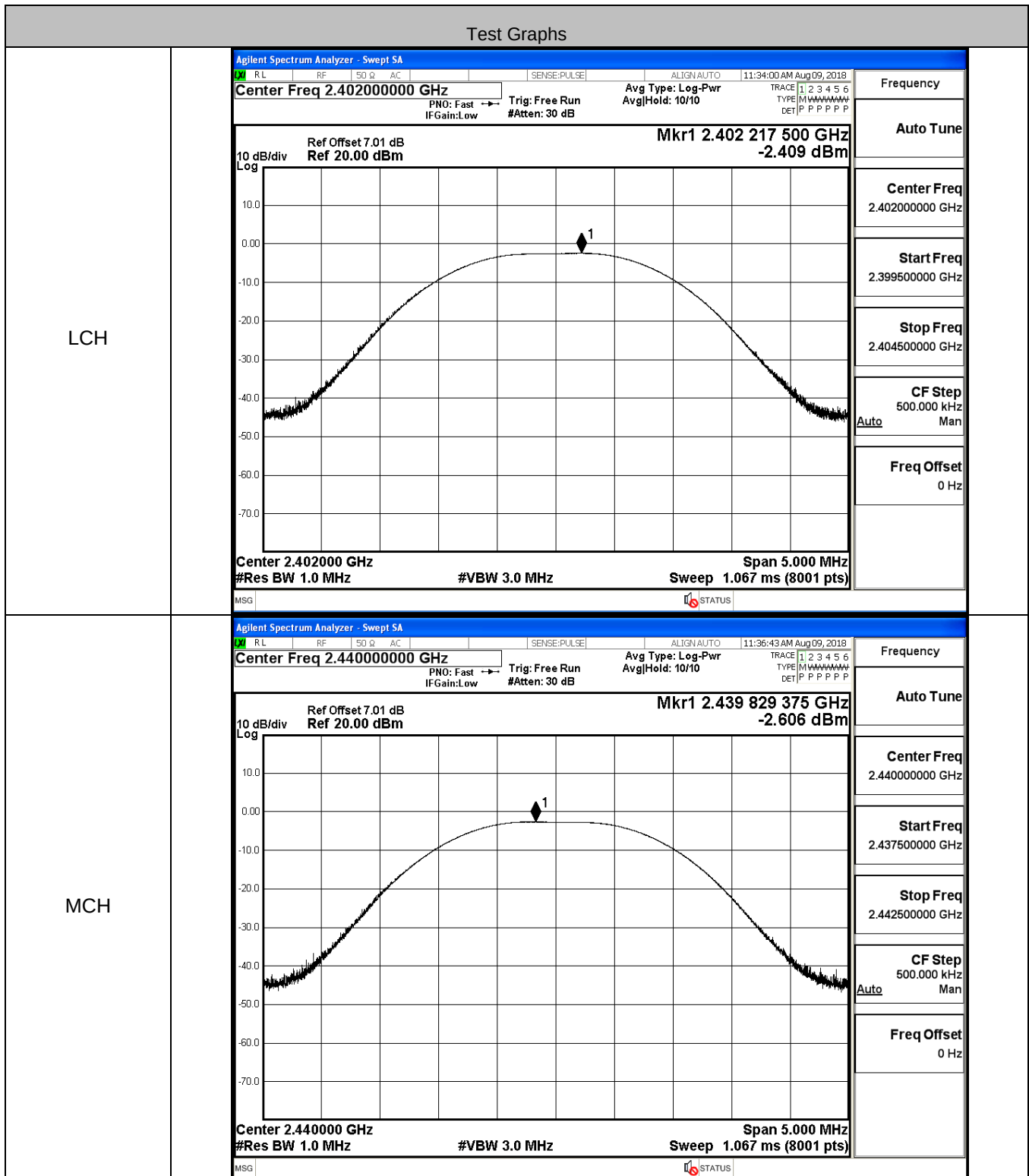
A.1 Duty Cycle

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

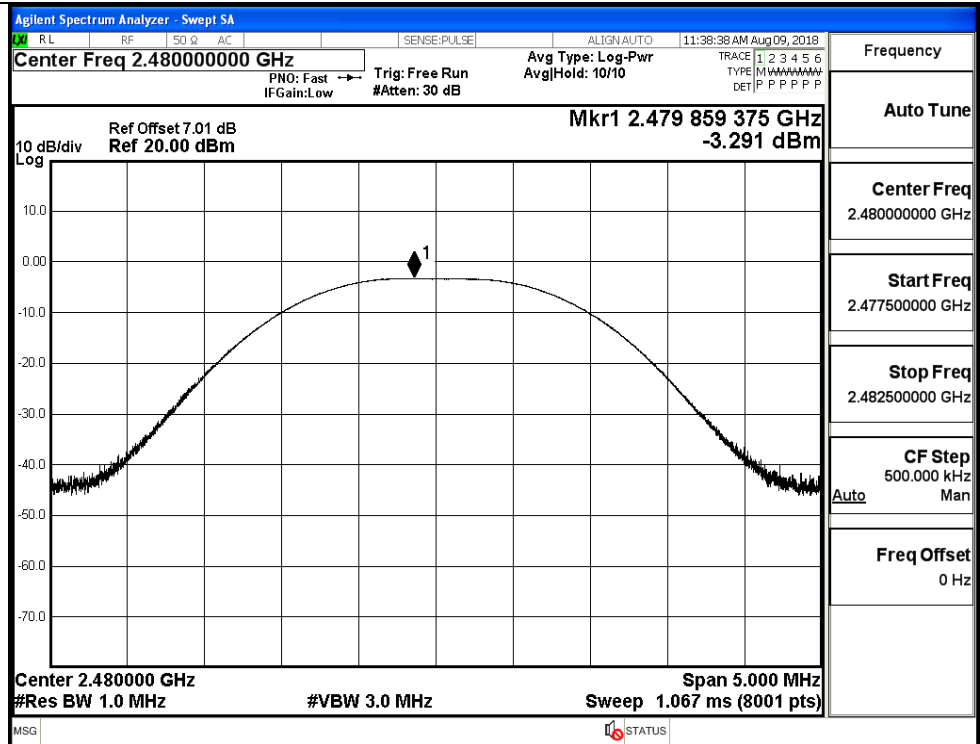


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.409	30	PASS
BT LE	MCH	-2.606	30	PASS
BT LE	HCH	-3.291	30	PASS



HCH

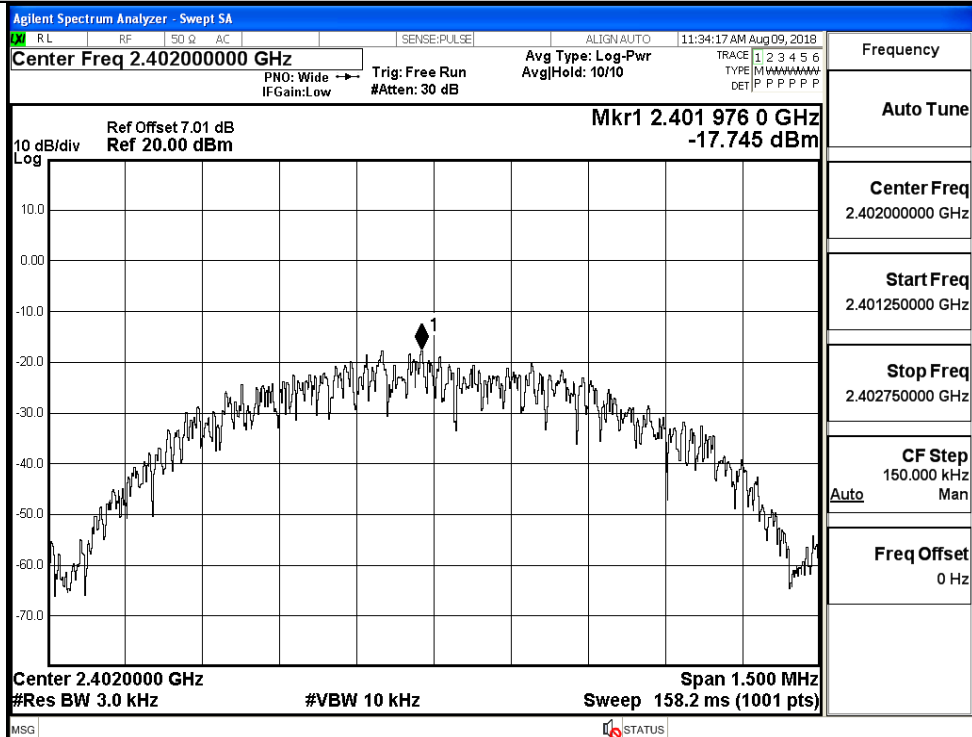


A.3 Maximum Power Spectral Density

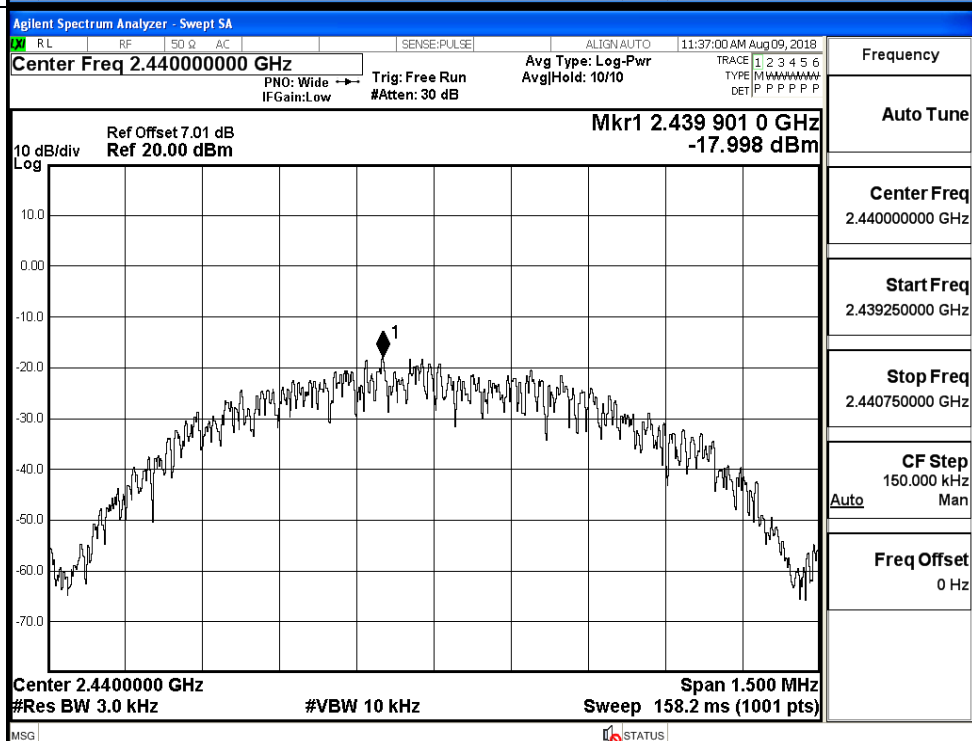
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.745	8	PASS
BT LE	MCH	-17.998	8	PASS
BT LE	HCH	-18.490	8	PASS

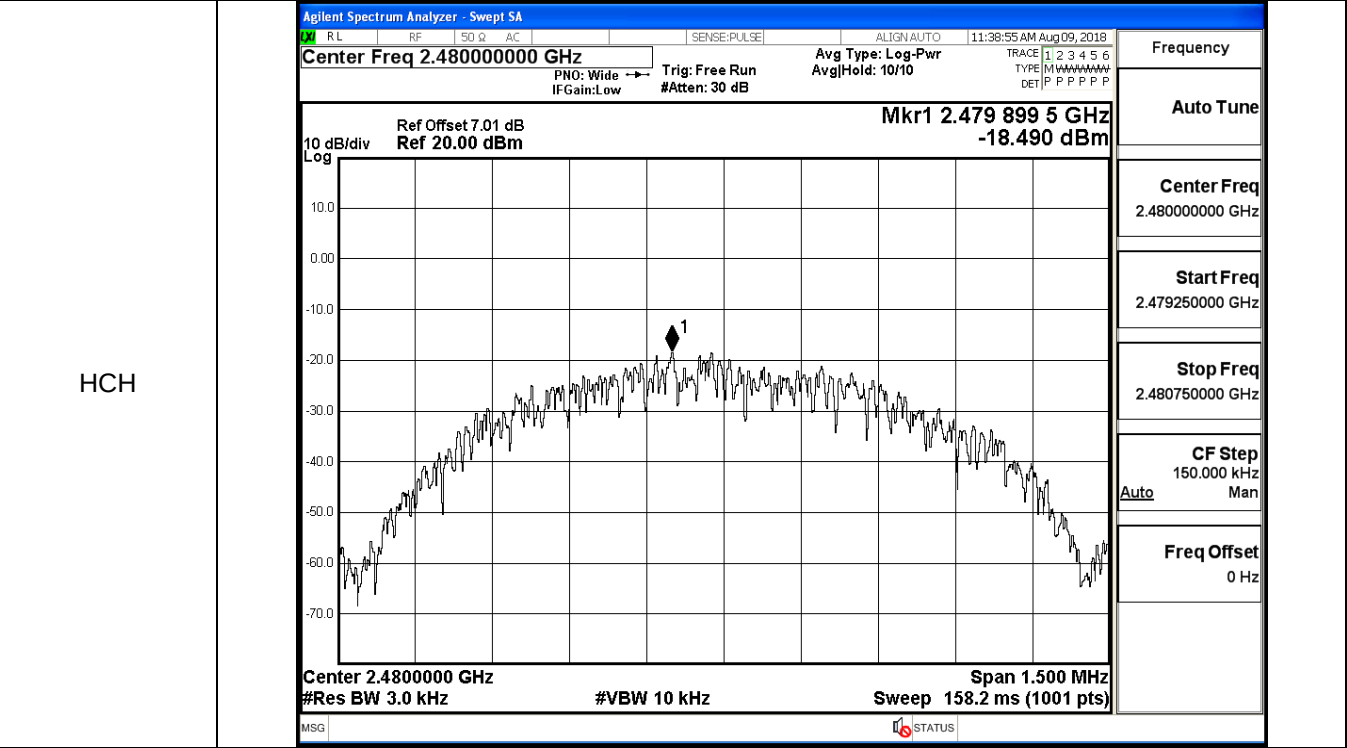
Test Graphs

LCH



MCH



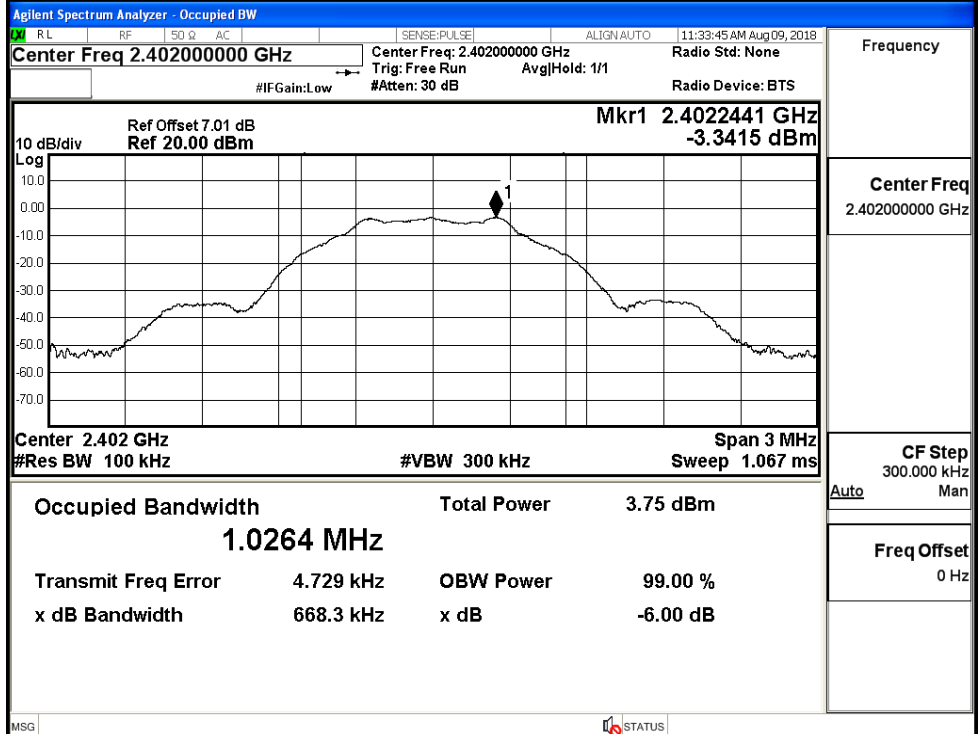


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6683	≥ 0.5	PASS
BT LE	MCH	0.6835	≥ 0.5	PASS
BT LE	HCH	0.6815	≥ 0.5	PASS

Test Graphs

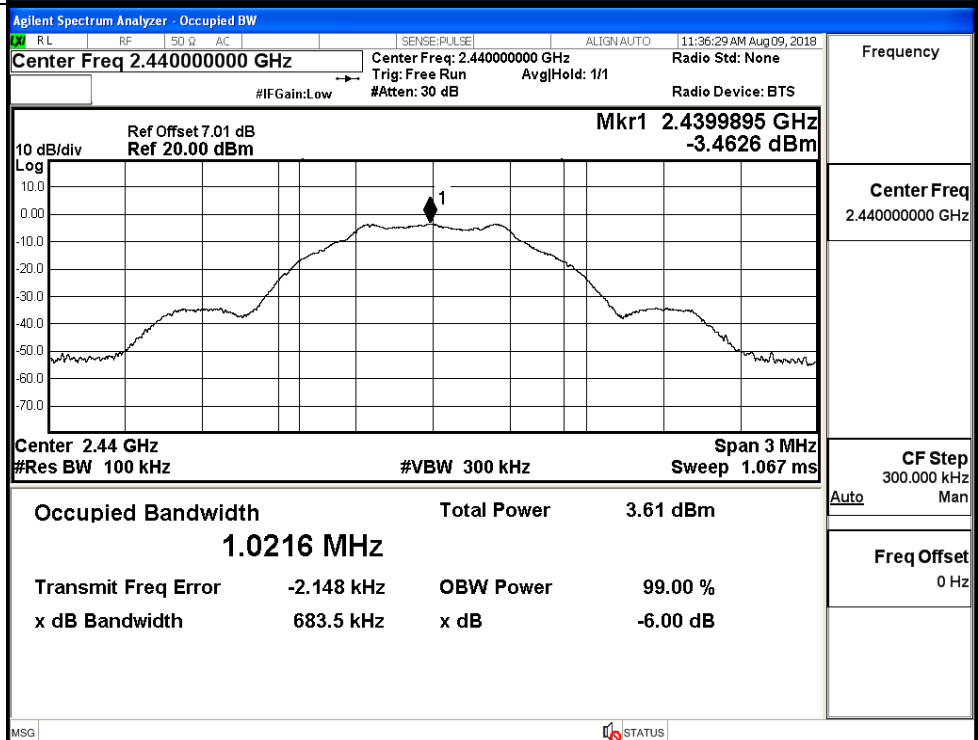
LCH



Frequency

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

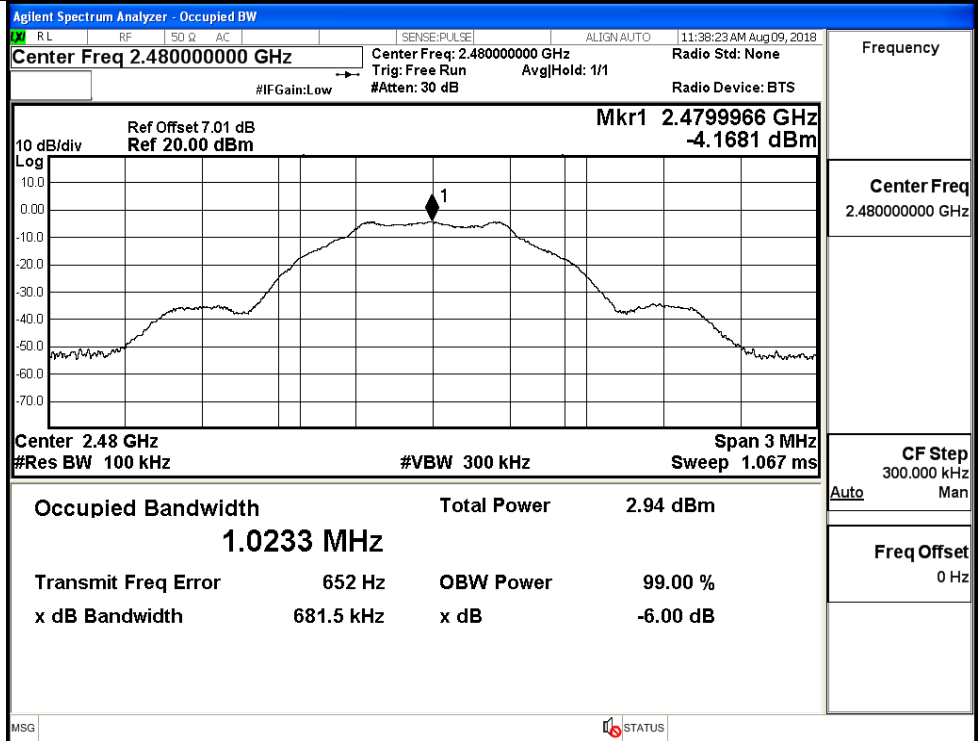
MCH



Frequency

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

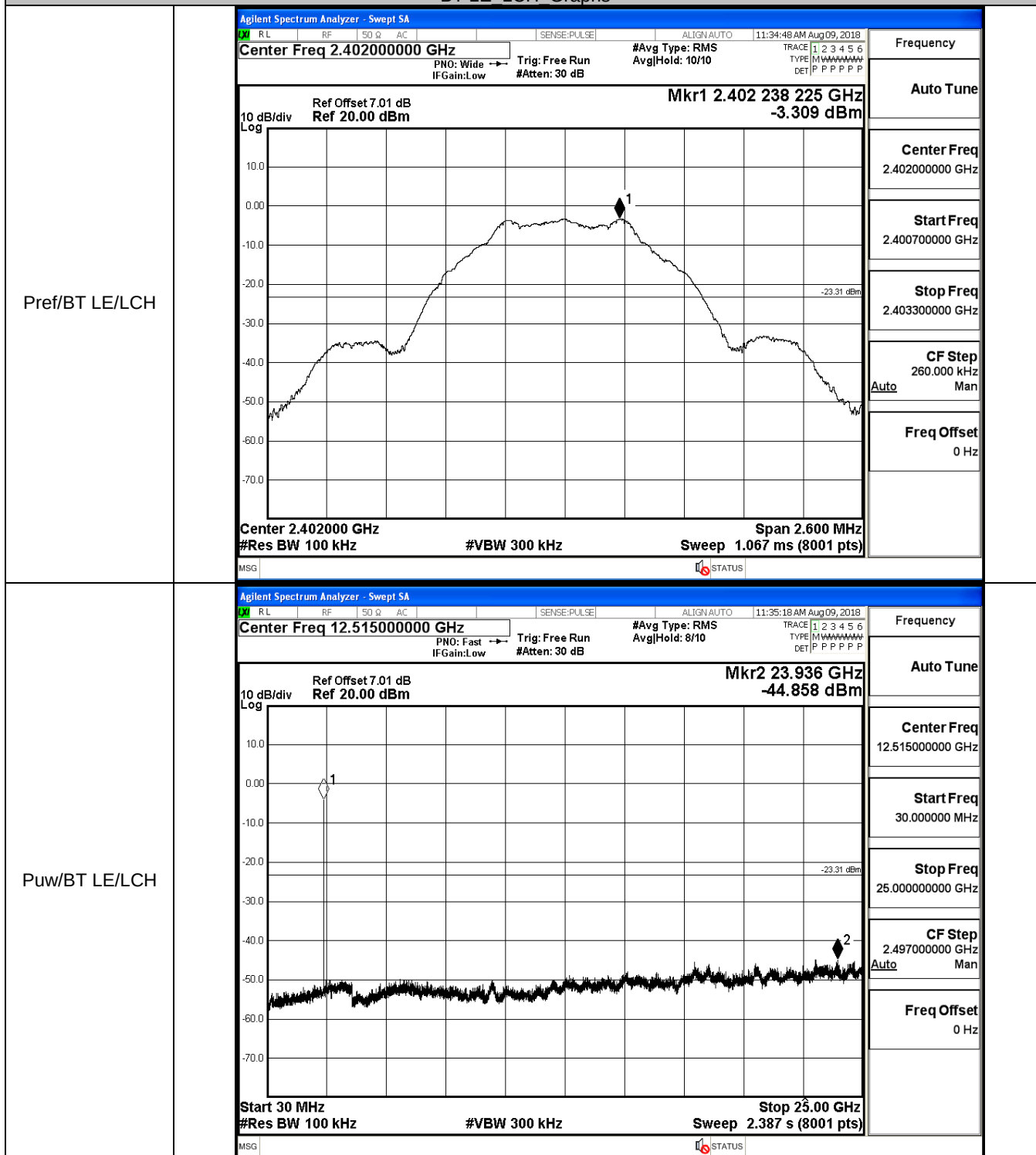
HCH



A.5 RF Conducted Spurious Emissions

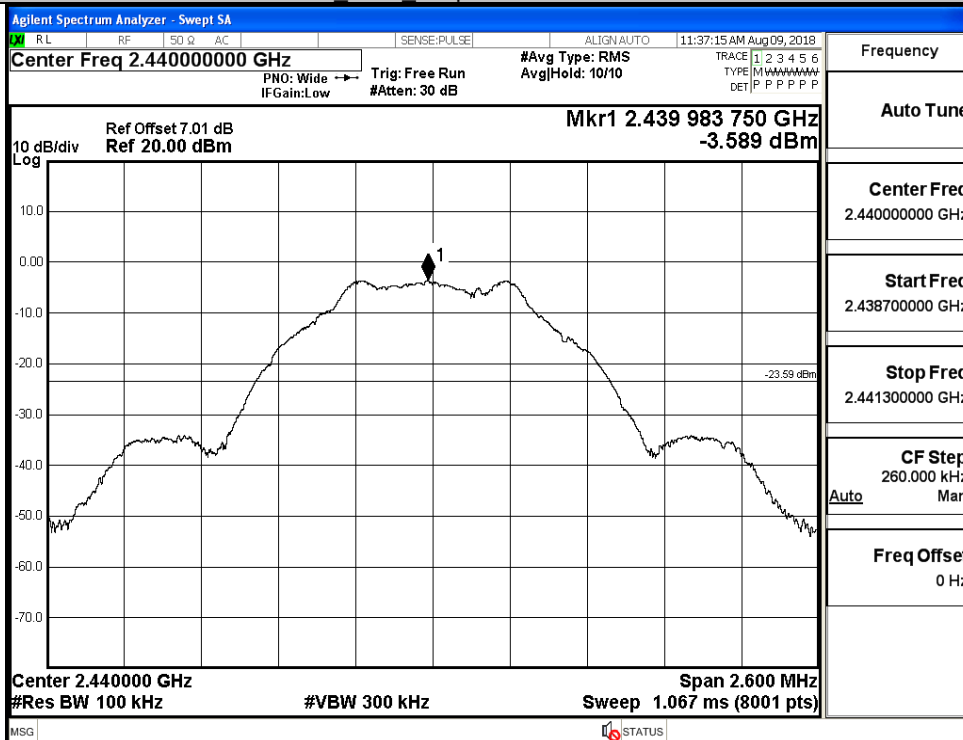
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.309	-44.858	-23.309	PASS
BT LE	MCH	-3.589	-45.055	-23.589	PASS
BT LE	HCH	-4.119	-44.911	-24.119	PASS

BT LE LCH Graphs

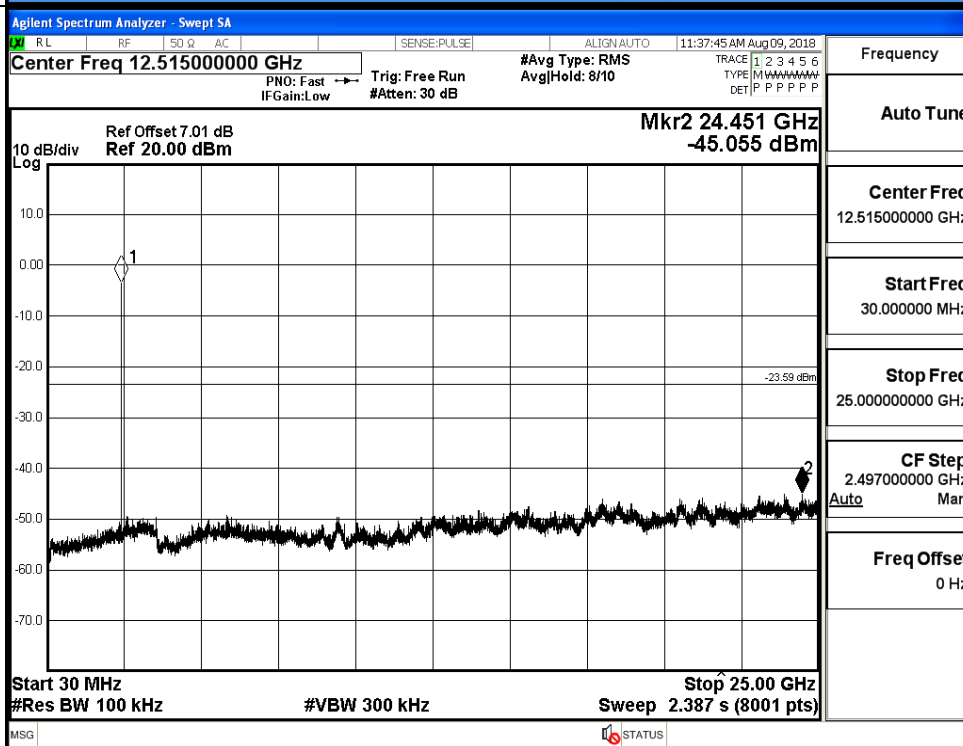


BT LE MCH Graphs

Pref/BT LE/MCH

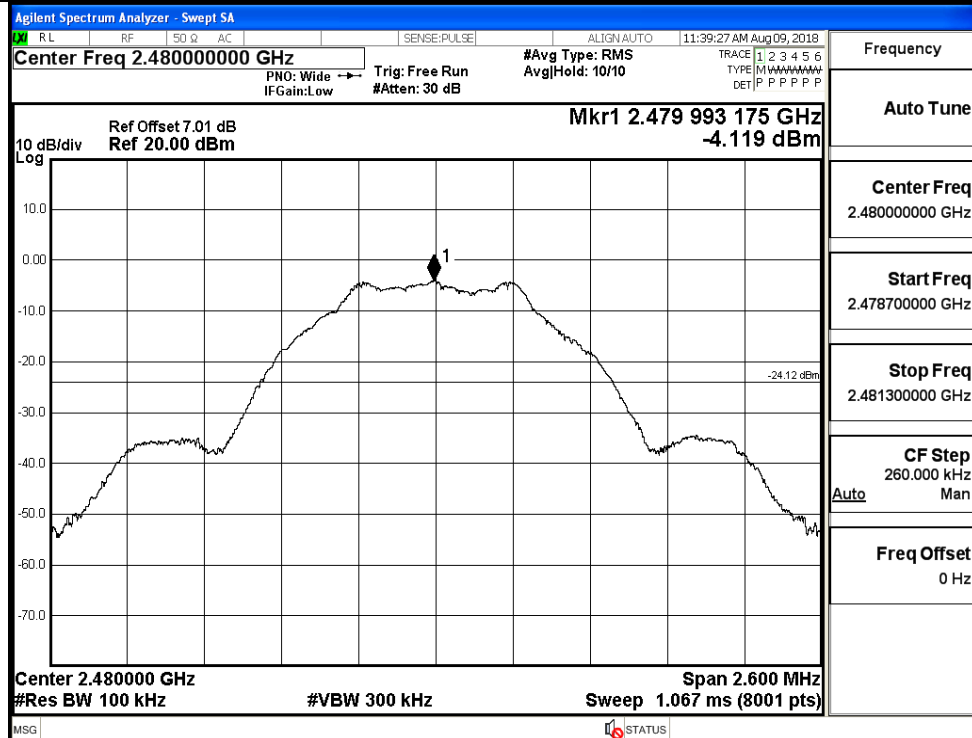


Puw/BT LE/MCH

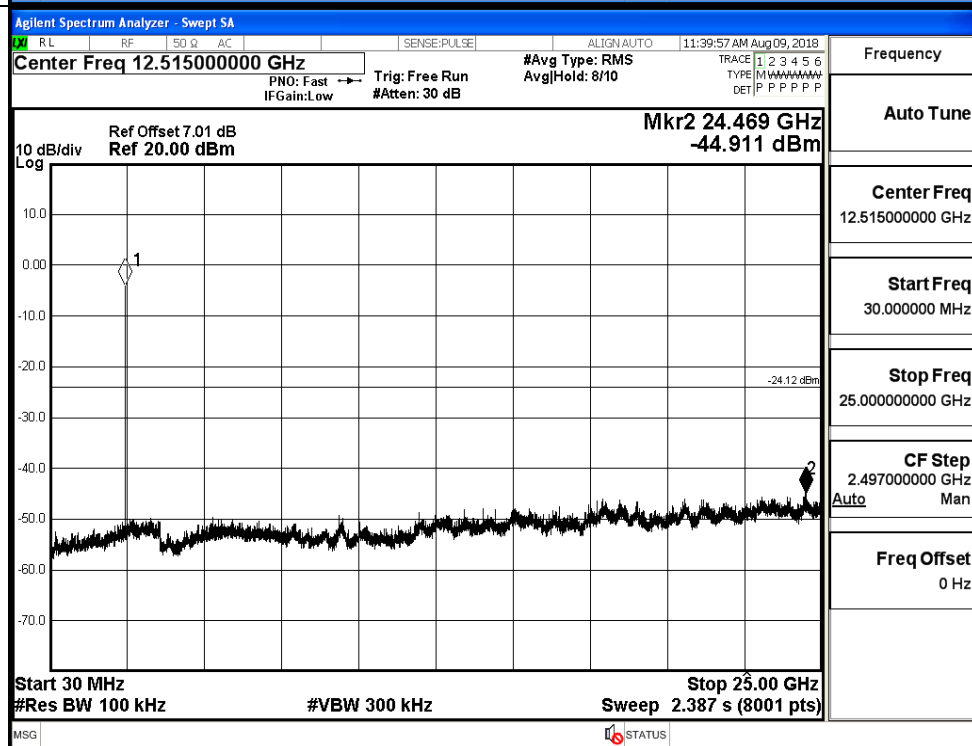


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

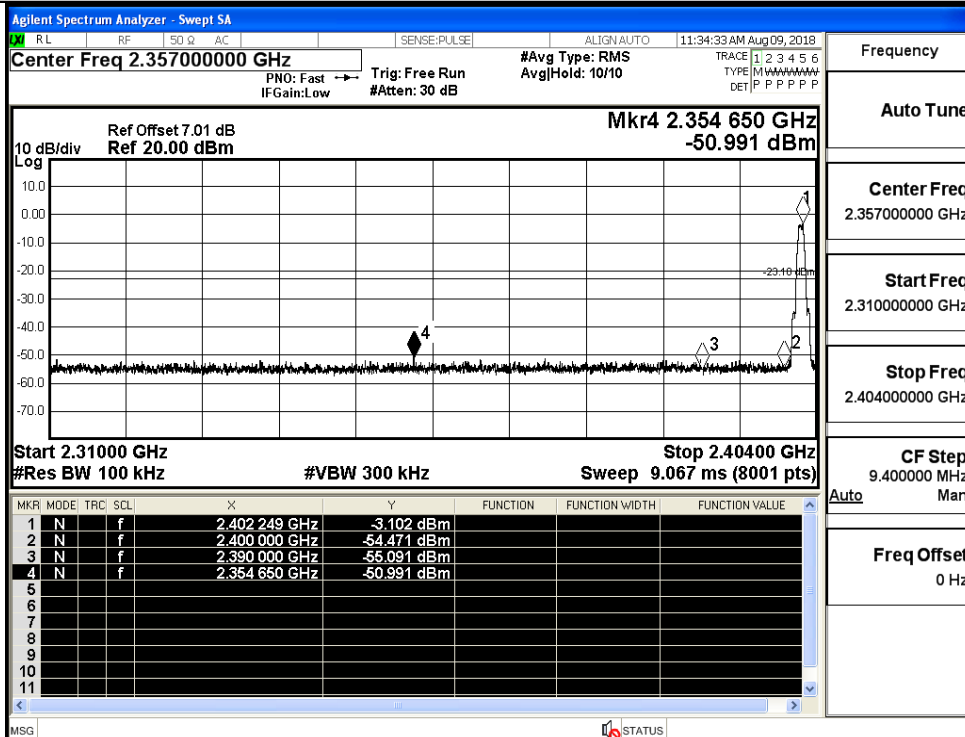


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.102	-50.991	-23.1	PASS
BT LE	HCH	-3.975	-51.177	-23.98	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

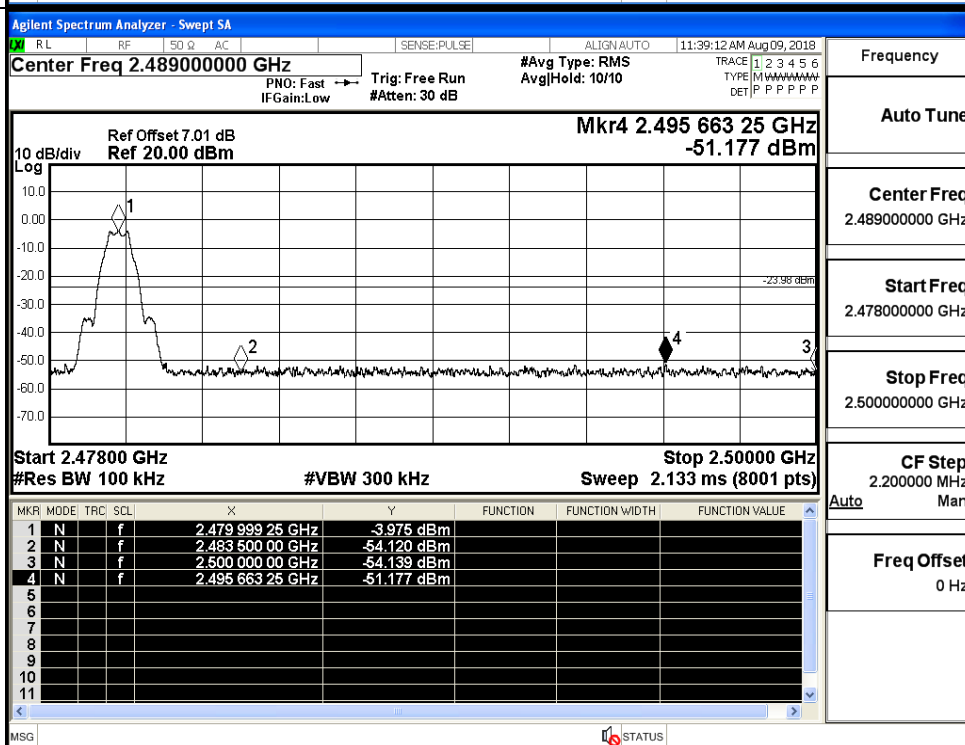
9.400000 MHz

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

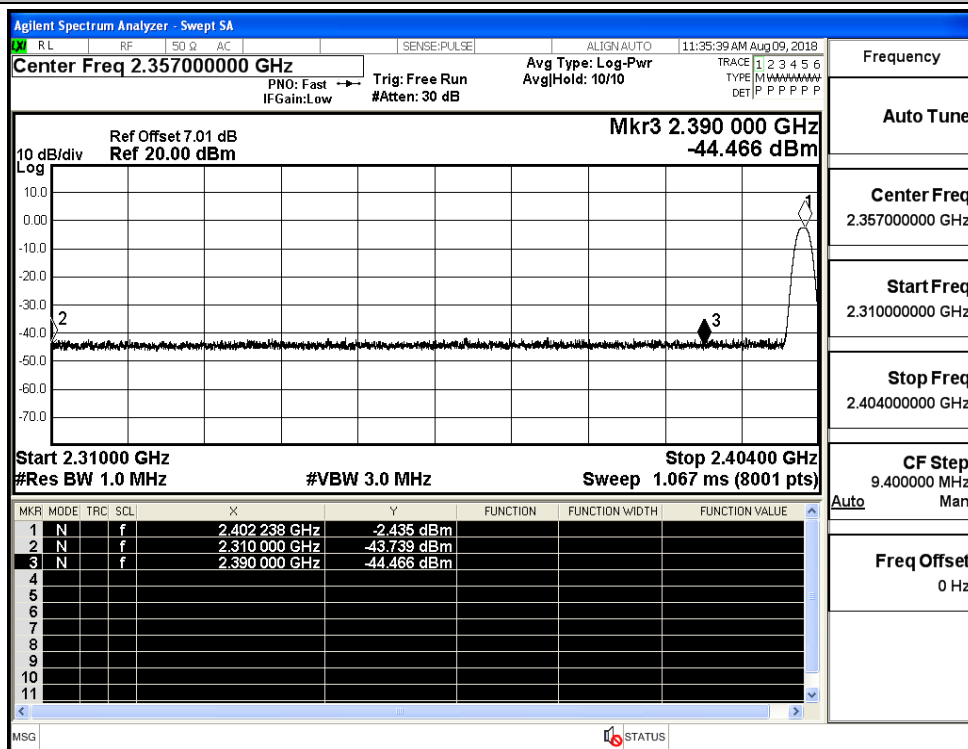
Freq Offset

0 Hz

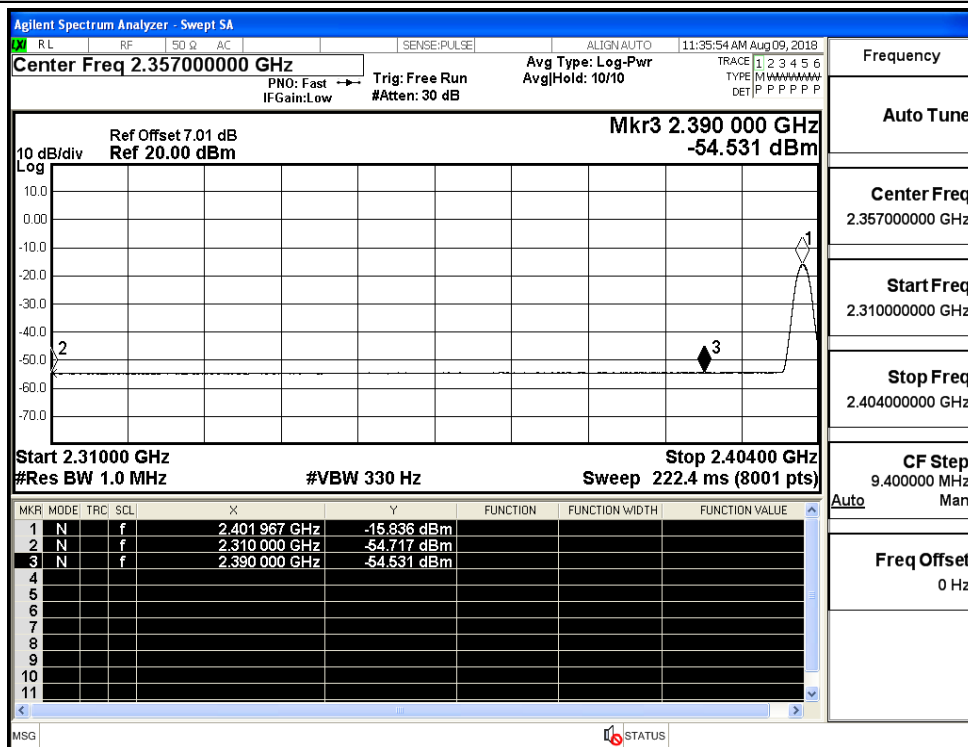
B.7 Restrict-band band-edge measurements

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	-43.74	2.0	0	51.52	PEAK	74	PASS
		Ant1	2310.0	-54.72	2.0	0	40.54	AV	54	PASS
		Ant1	2390.0	-44.47	2.0	0	50.79	PEAK	74	PASS
		Ant1	2390.0	-54.53	2.0	0	40.73	AV	54	PASS
	2480	Ant1	2483.5	-42.39	2.0	0	52.86	PEAK	74	PASS
		Ant1	2483.5	-54.30	2.0	0	40.96	AV	54	PASS
		Ant1	2500.0	-44.35	2.0	0	50.91	PEAK	74	PASS
		Ant1	2500.0	-54.17	2.0	0	41.09	AV	54	PASS

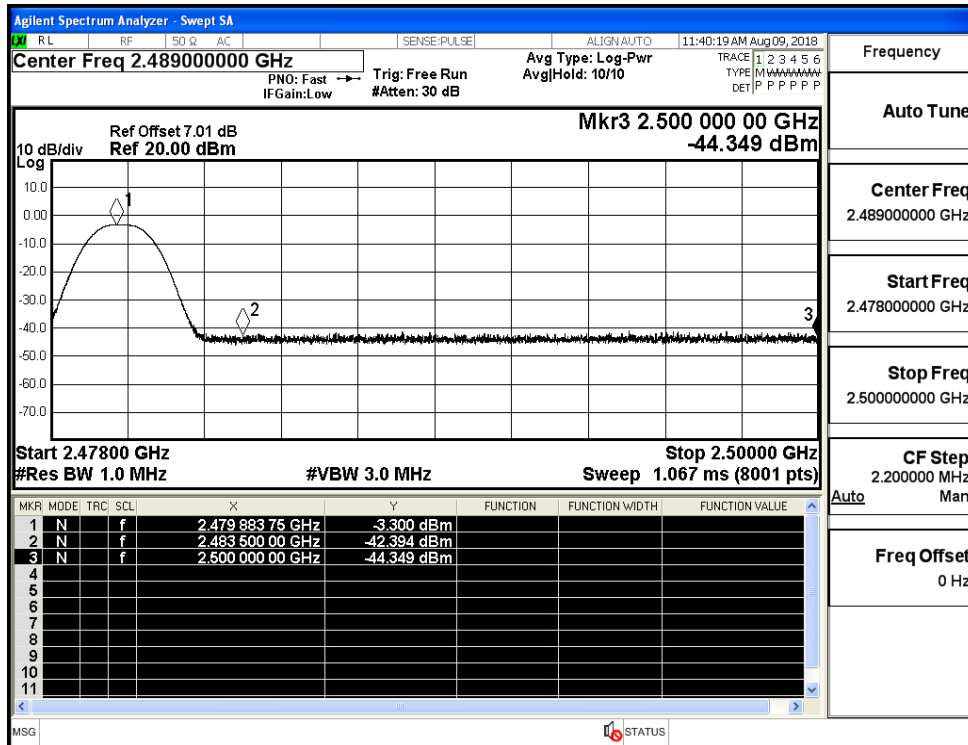
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

