

Appendix B

RF Test Data for BT V4.0(BLE) (Conducted Measurement)

Product Name: bracelet with e-display

Trade Mark: ONA BANGLE

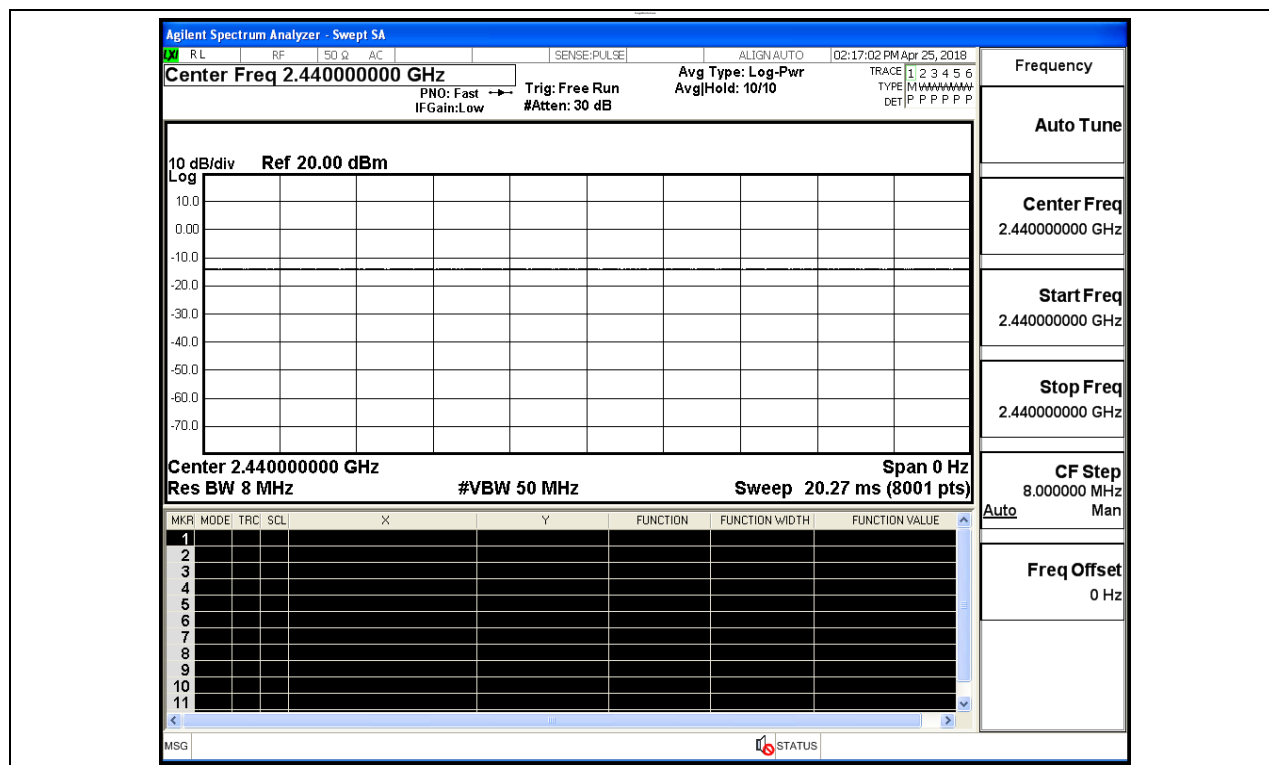
Test Model: ONA0102

Environmental Conditions

Temperature:	21.3 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.Zhuo

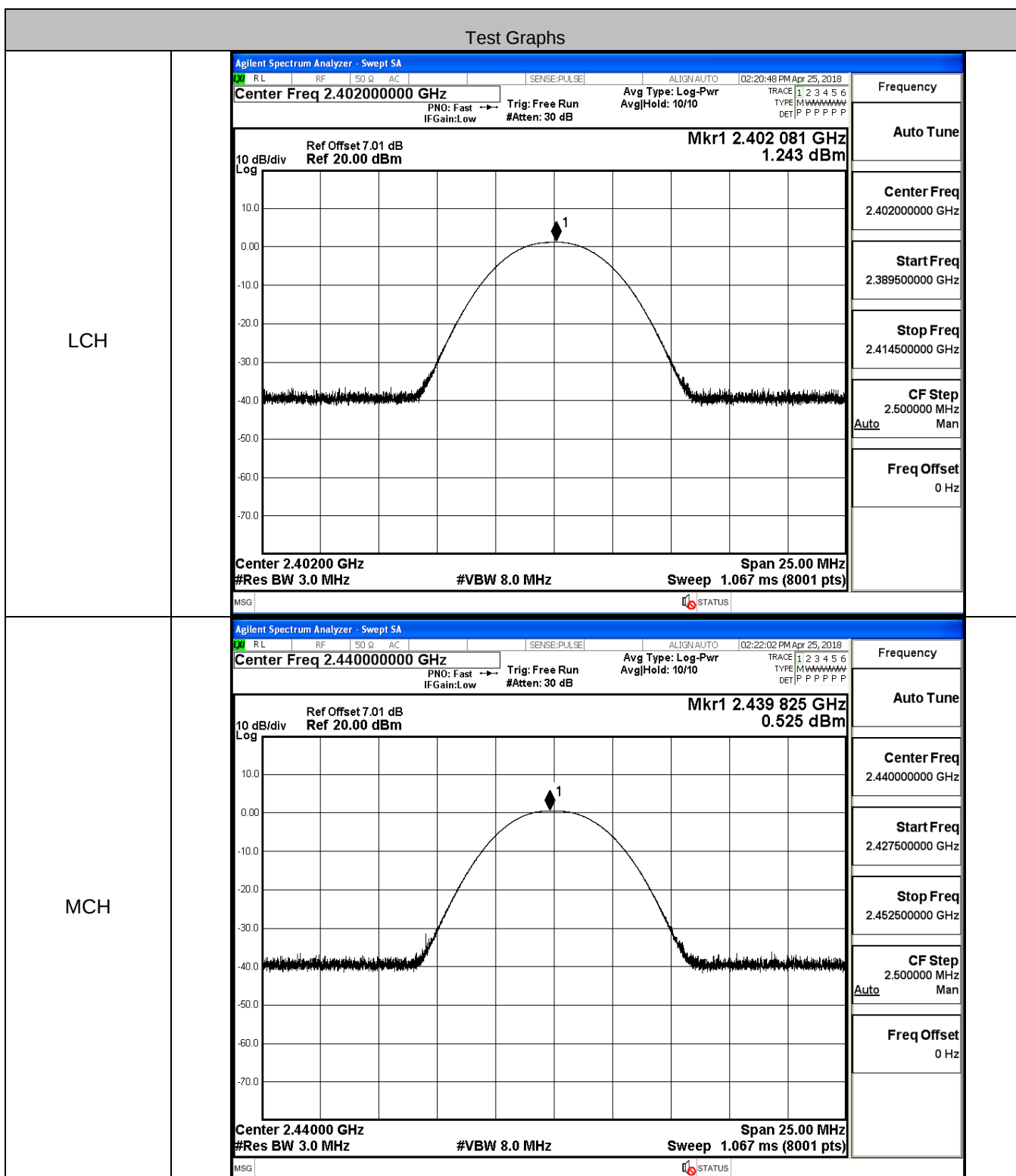
A.1 Duty Cycle

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

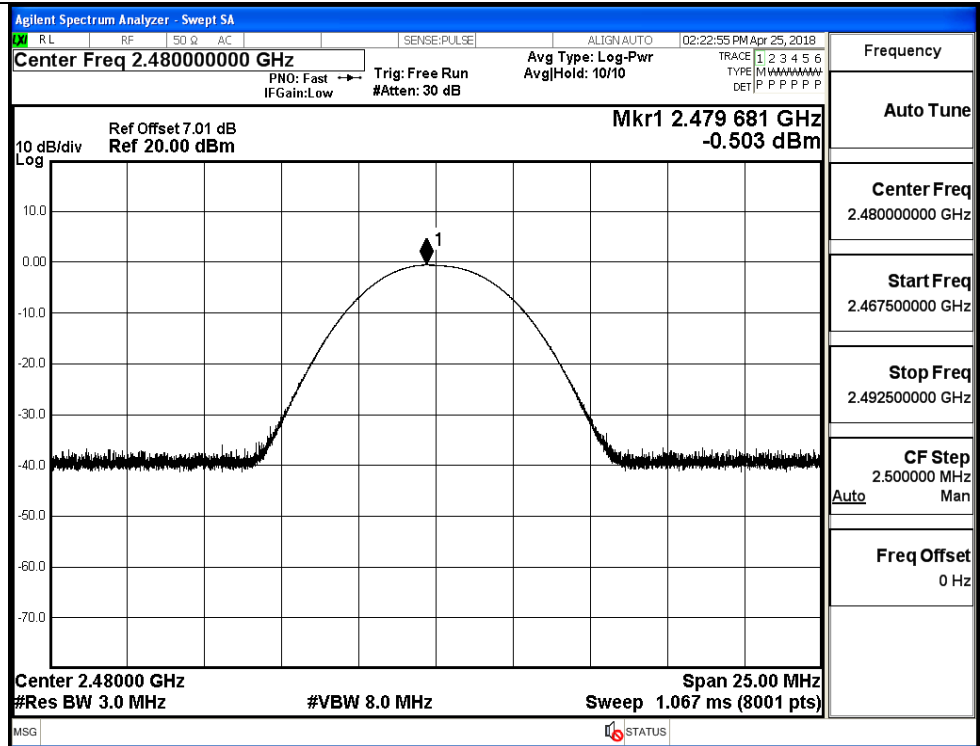


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.243	30	PASS
BT LE	MCH	0.525	30	PASS
BT LE	HCH	-0.503	30	PASS



HCH

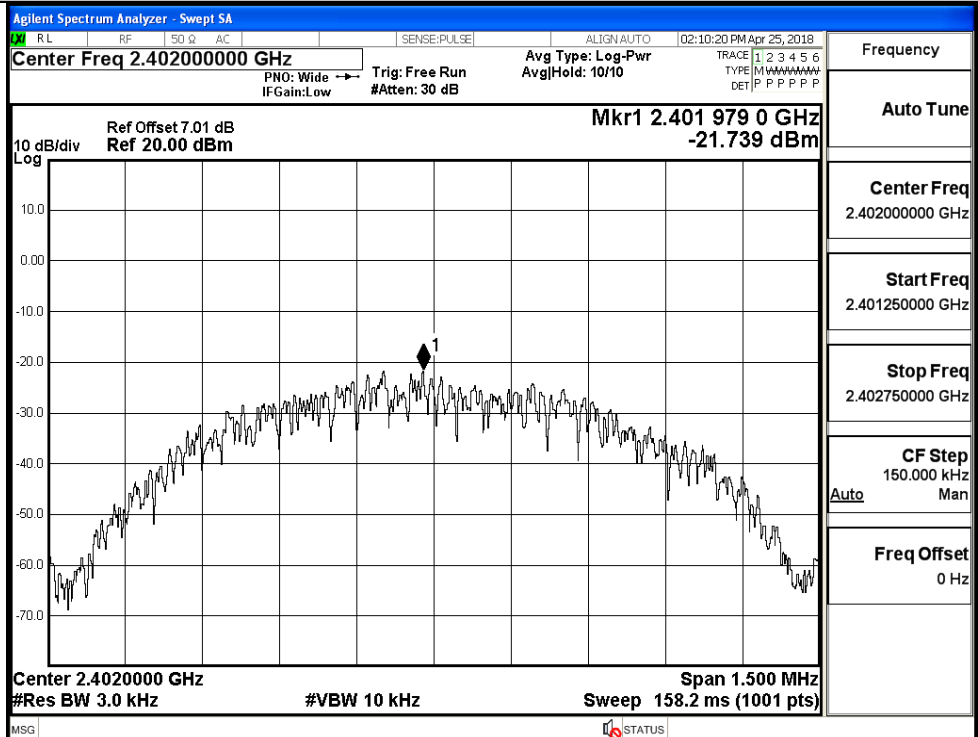


A.3 Maximum Power Spectral Density

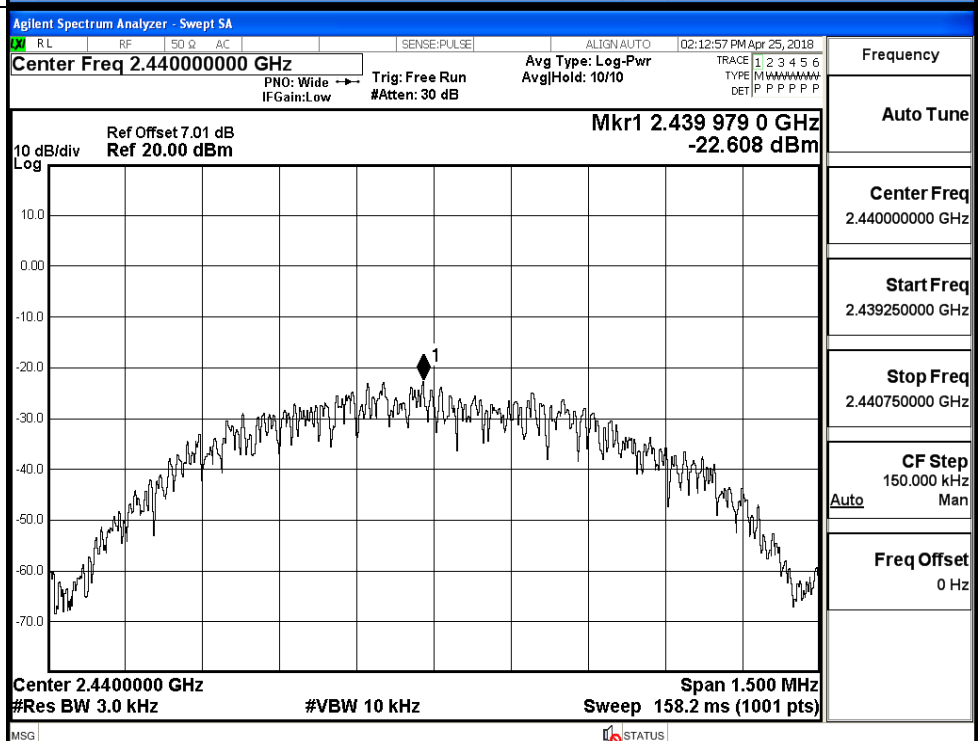
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-21.739	8	PASS
BT LE	MCH	-22.608	8	PASS
BT LE	HCH	-23.335	8	PASS

Test Graphs

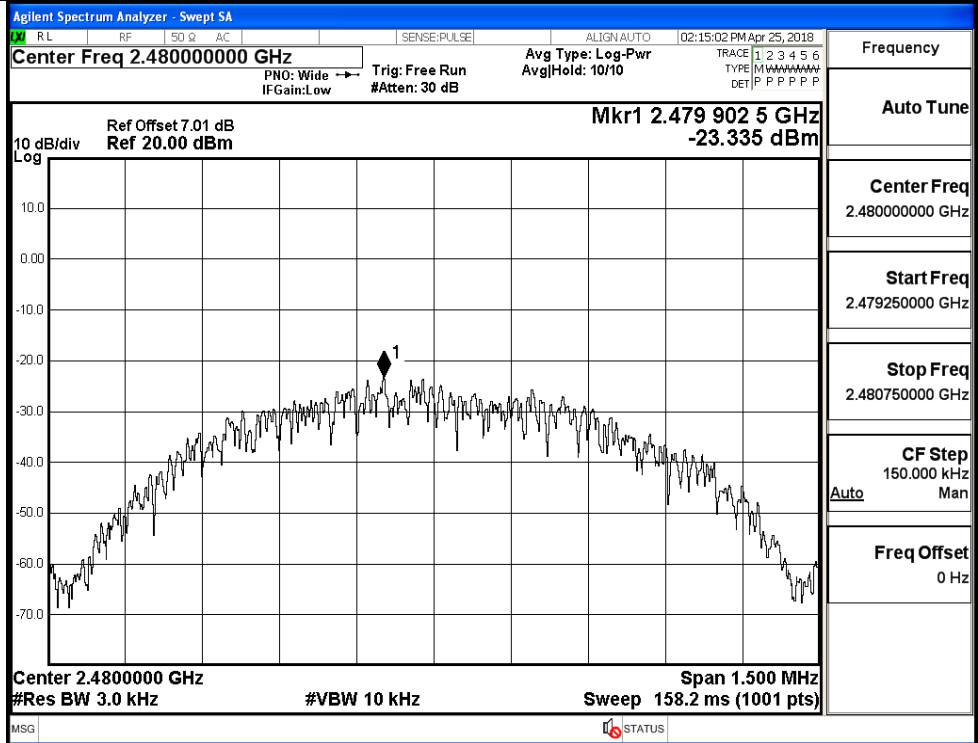
LCH



MCH



HCH

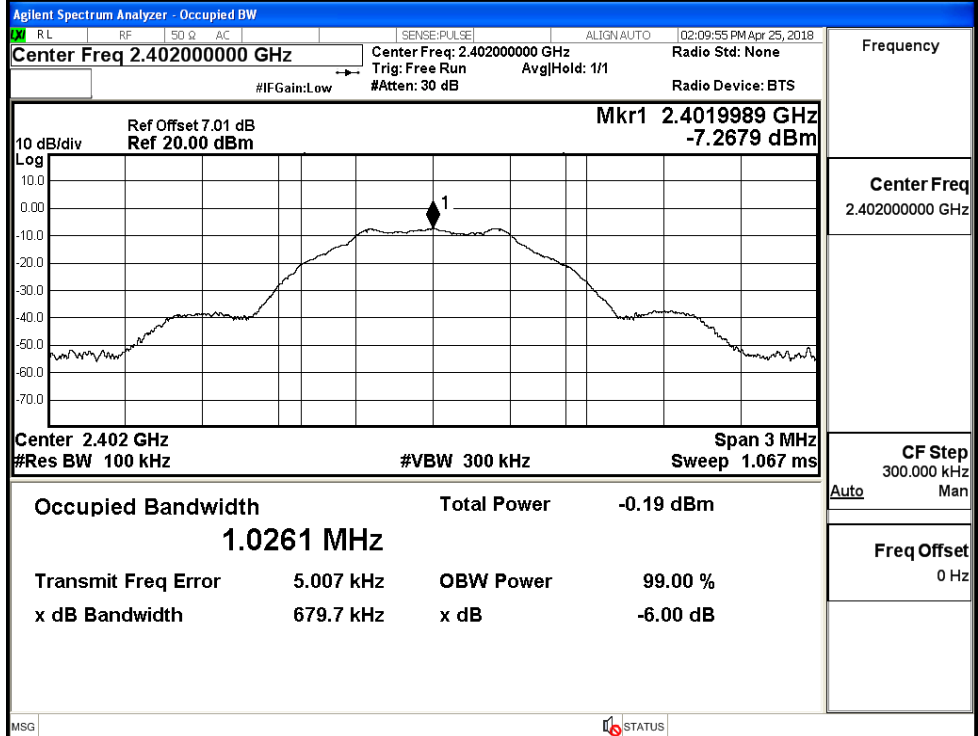


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6797	≥ 0.5	PASS
BT LE	MCH	0.6856	≥ 0.5	PASS
BT LE	HCH	0.6777	≥ 0.5	PASS

Test Graphs

LCH



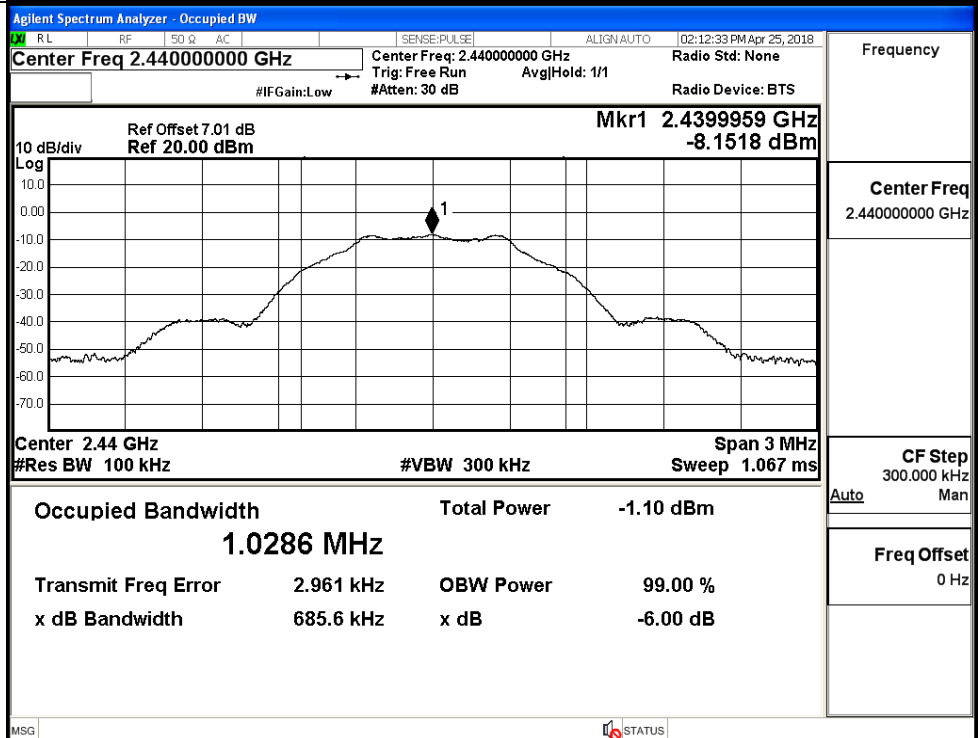
Frequency

Center Freq
2.402000000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

MCH



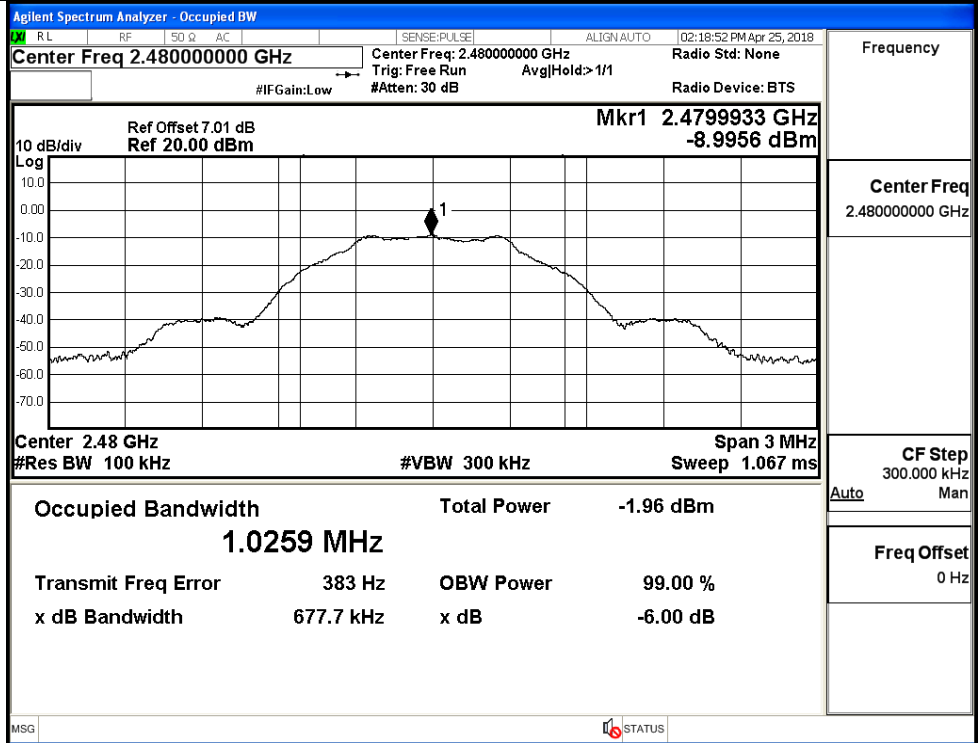
Frequency

Center Freq
2.440000000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

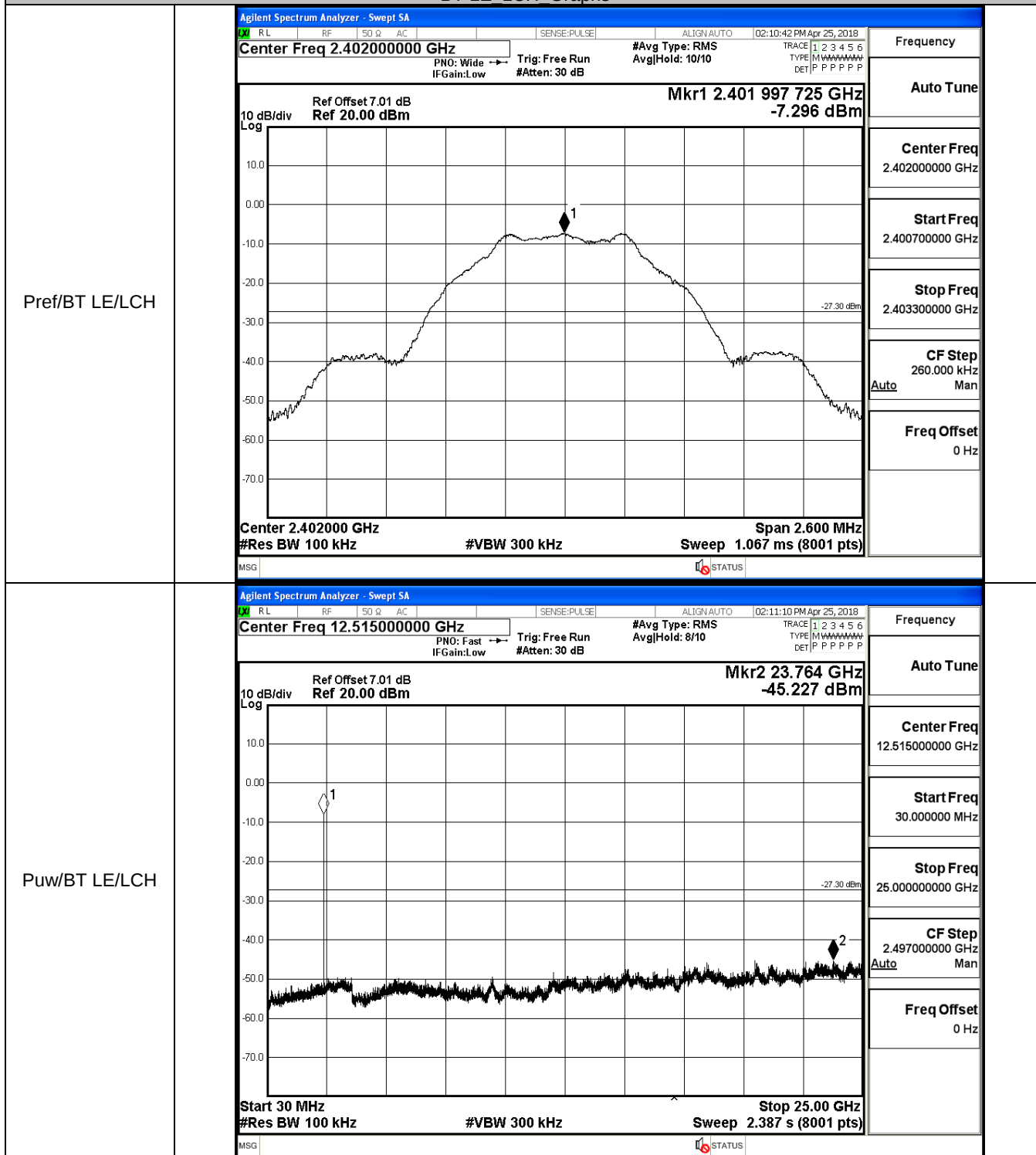
HCH



A.5 RF Conducted Spurious Emissions

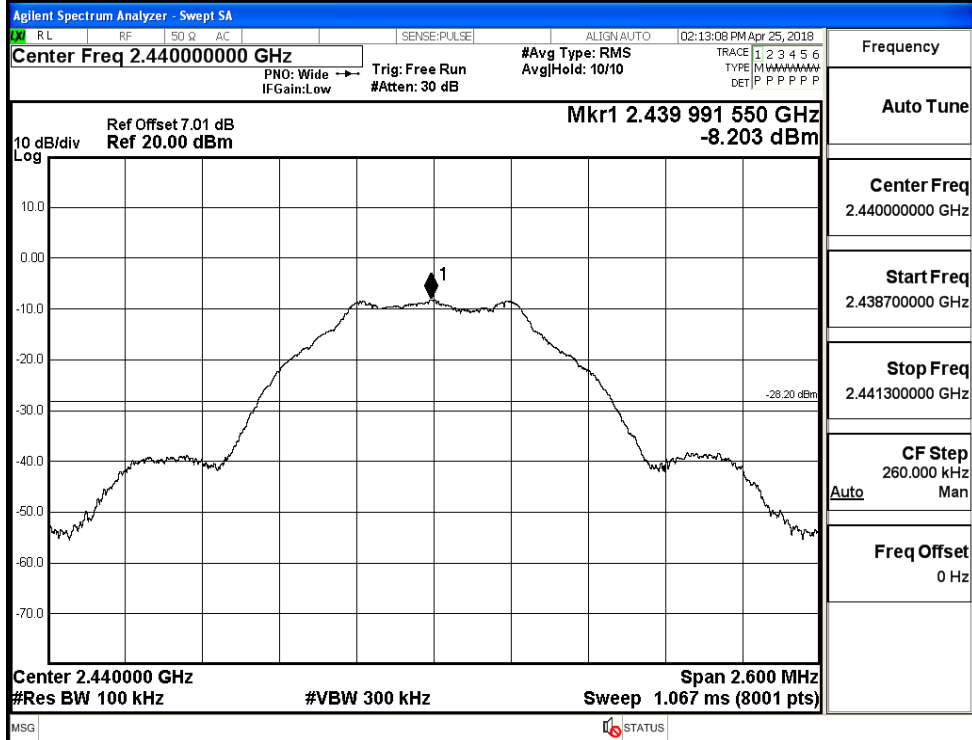
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.296	-45.227	-27.296	PASS
BT LE	MCH	-8.203	-44.662	-28.203	PASS
BT LE	HCH	-8.985	-45.307	-28.985	PASS

BT LE LCH Graphs

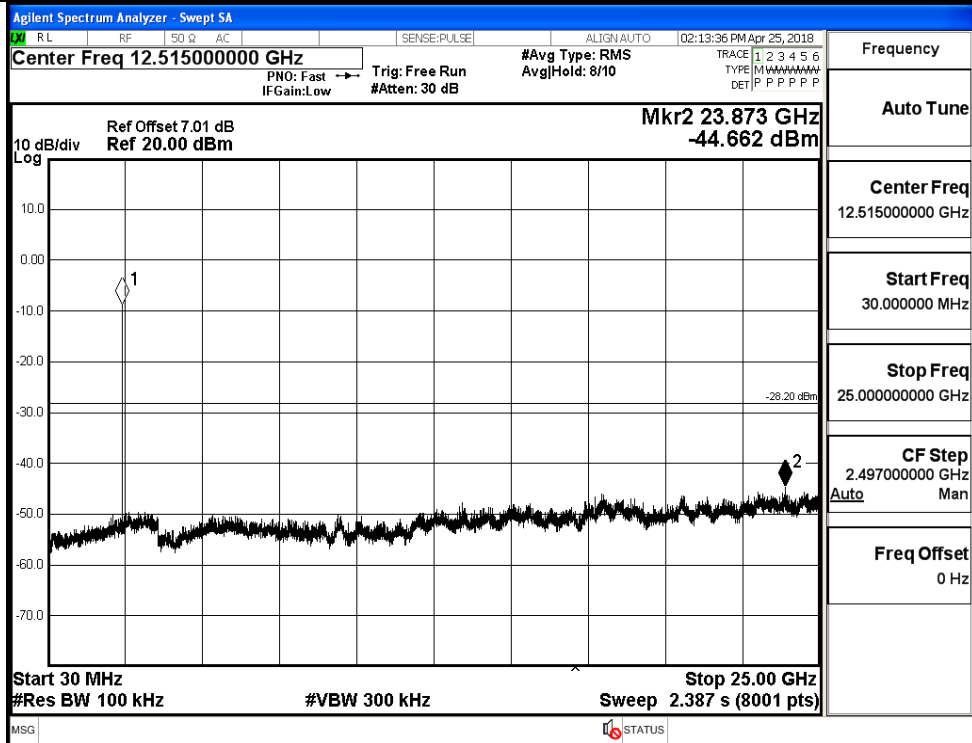


BT LE MCH Graphs

Pref/BT LE/MCH

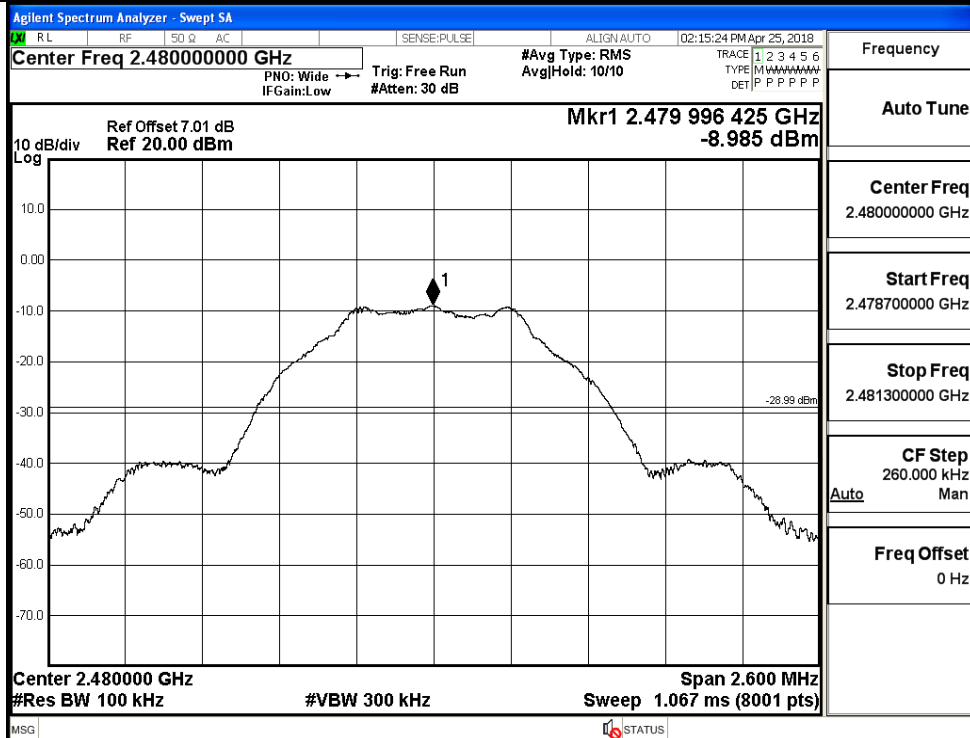


Puw/BT LE/MCH

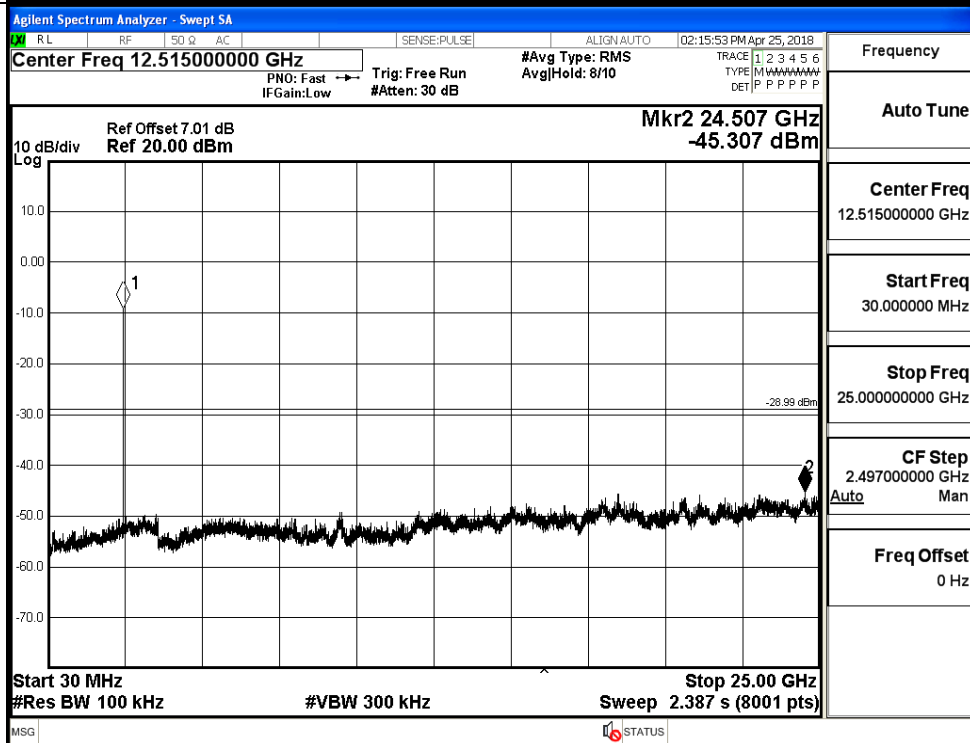


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

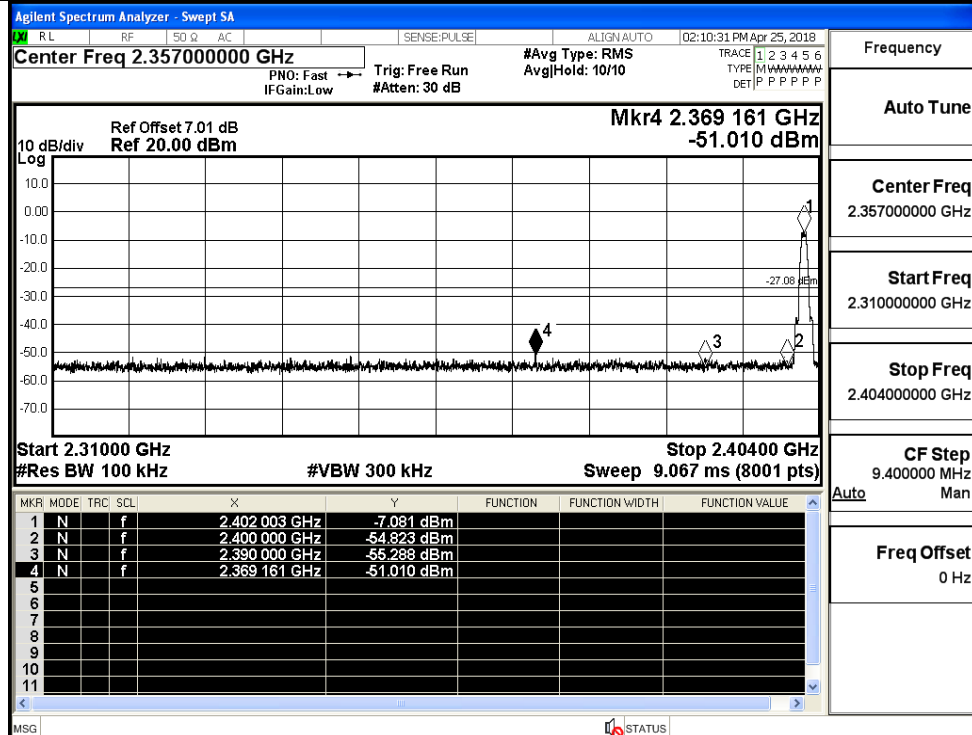


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.081	-51.010	-27.08	PASS
BT LE	HCH	-8.787	-50.713	-28.79	PASS

Test Graphs

LCH

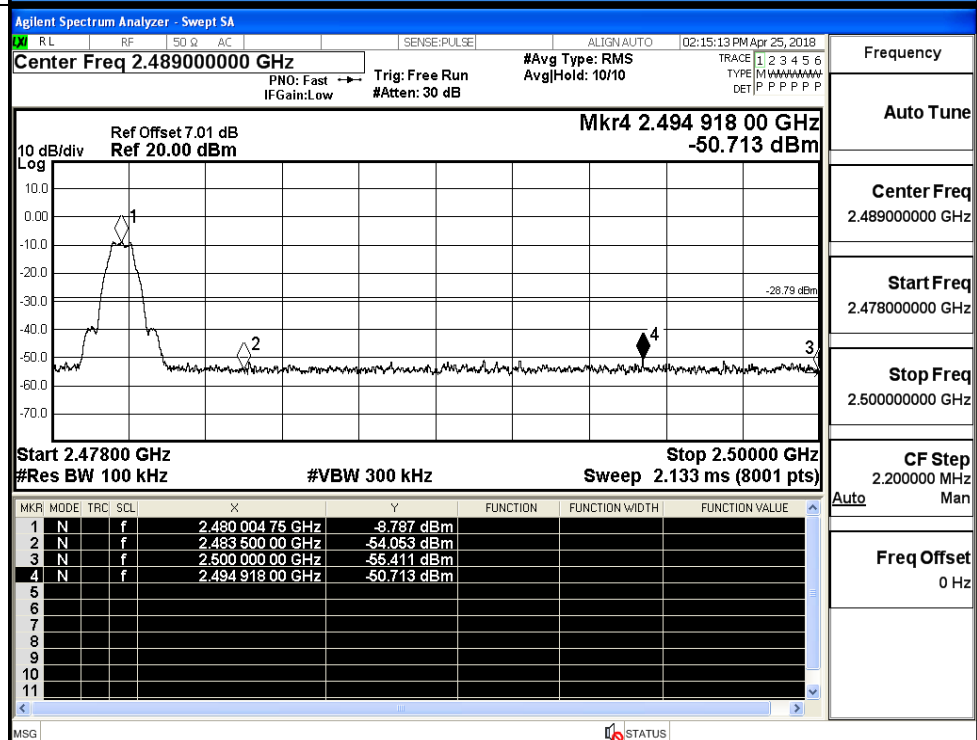


Frequency

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

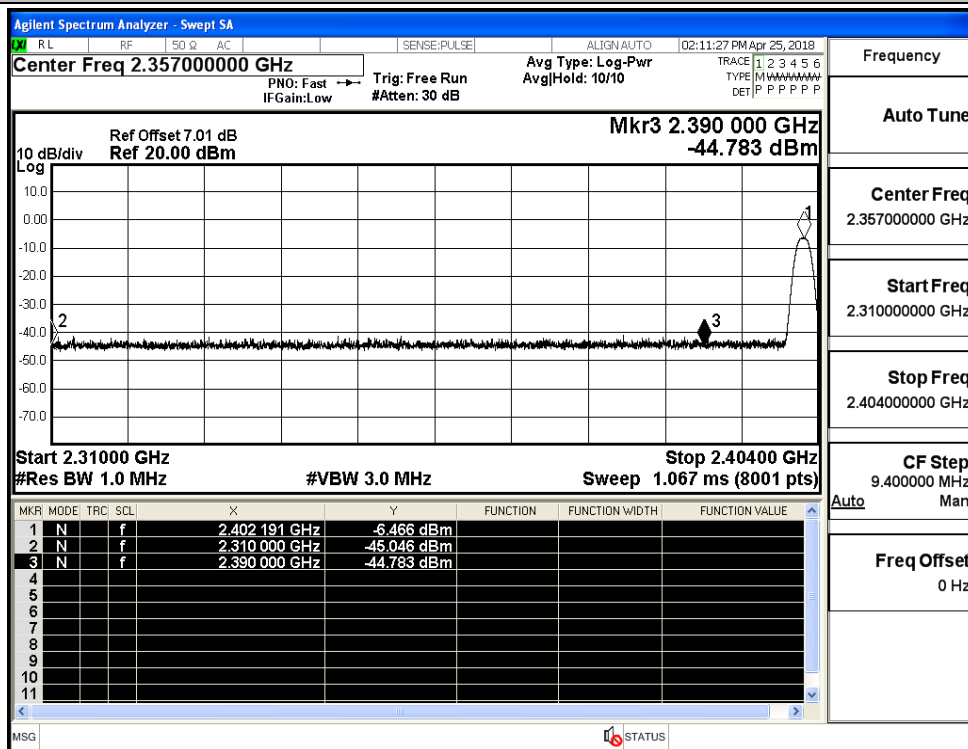
Auto Tune

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

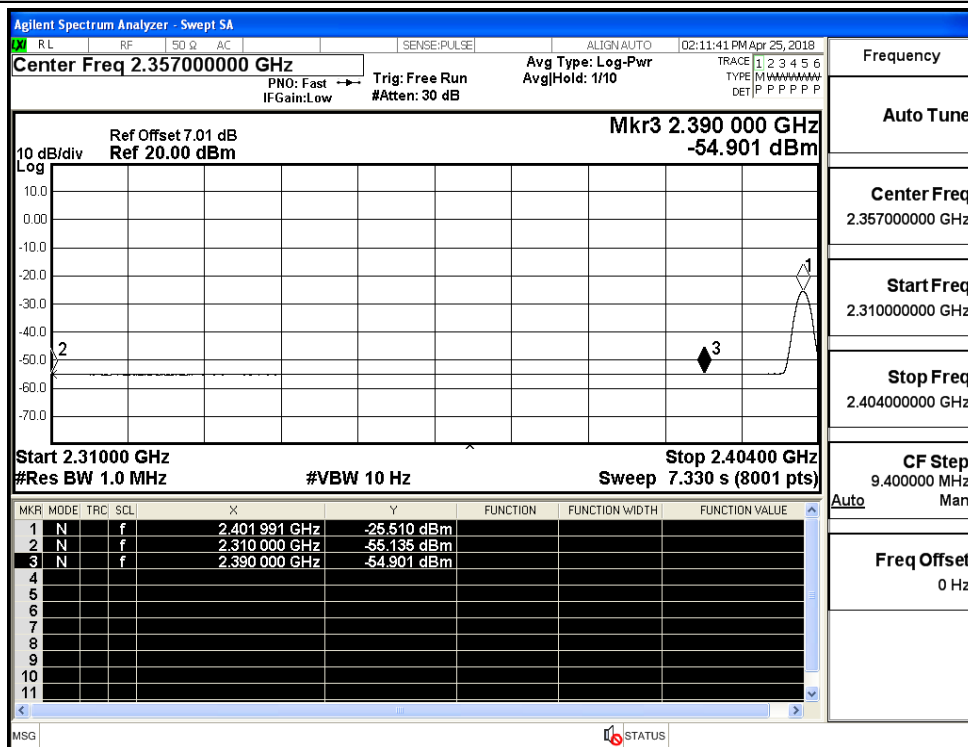
A.7 Restrict-band band-edge measurements

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	-45.05	2.0	0	52.15	PEAK	74	PASS
		Ant1	2310.0	-55.14	2.0	0	42.06	AV	54	PASS
		Ant1	2390.0	-44.78	2.0	0	52.42	PEAK	74	PASS
		Ant1	2390.0	-54.90	2.0	0	42.30	AV	54	PASS
	2480	Ant1	2483.5	-43.55	2.0	0	53.65	PEAK	74	PASS
		Ant1	2483.5	-54.64	2.0	0	42.56	AV	54	PASS
		Ant1	2500.0	-44.58	2.0	0	52.62	PEAK	74	PASS
		Ant1	2500.0	-54.48	2.0	0	42.72	AV	54	PASS

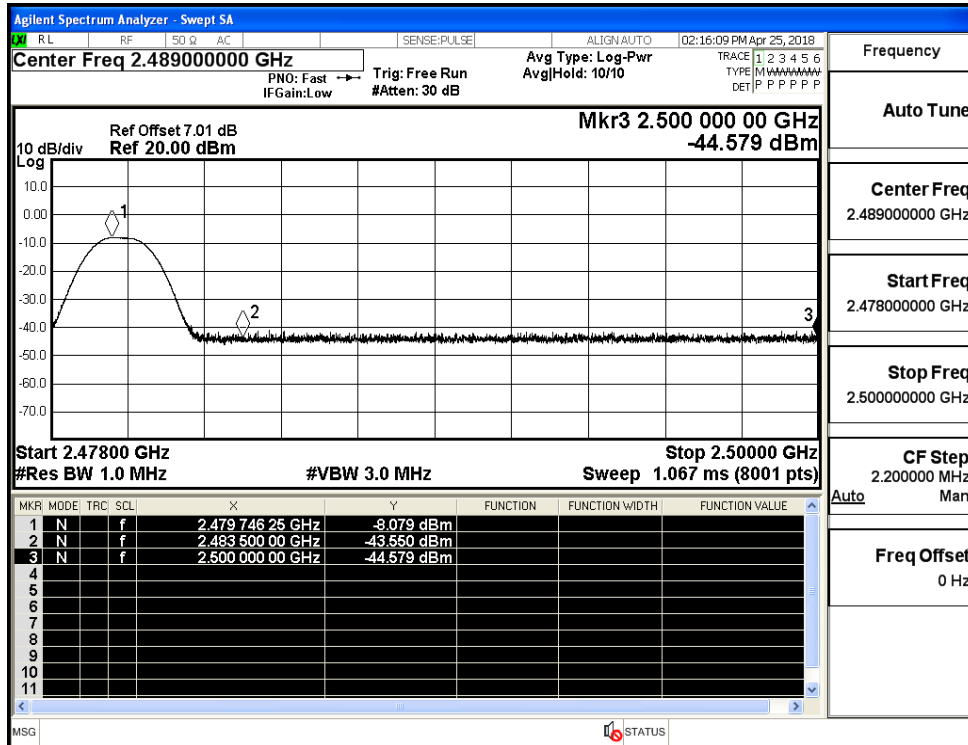
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

