

Appendix B

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

Product Name: iMeditron

Trade Mark: iMeditron

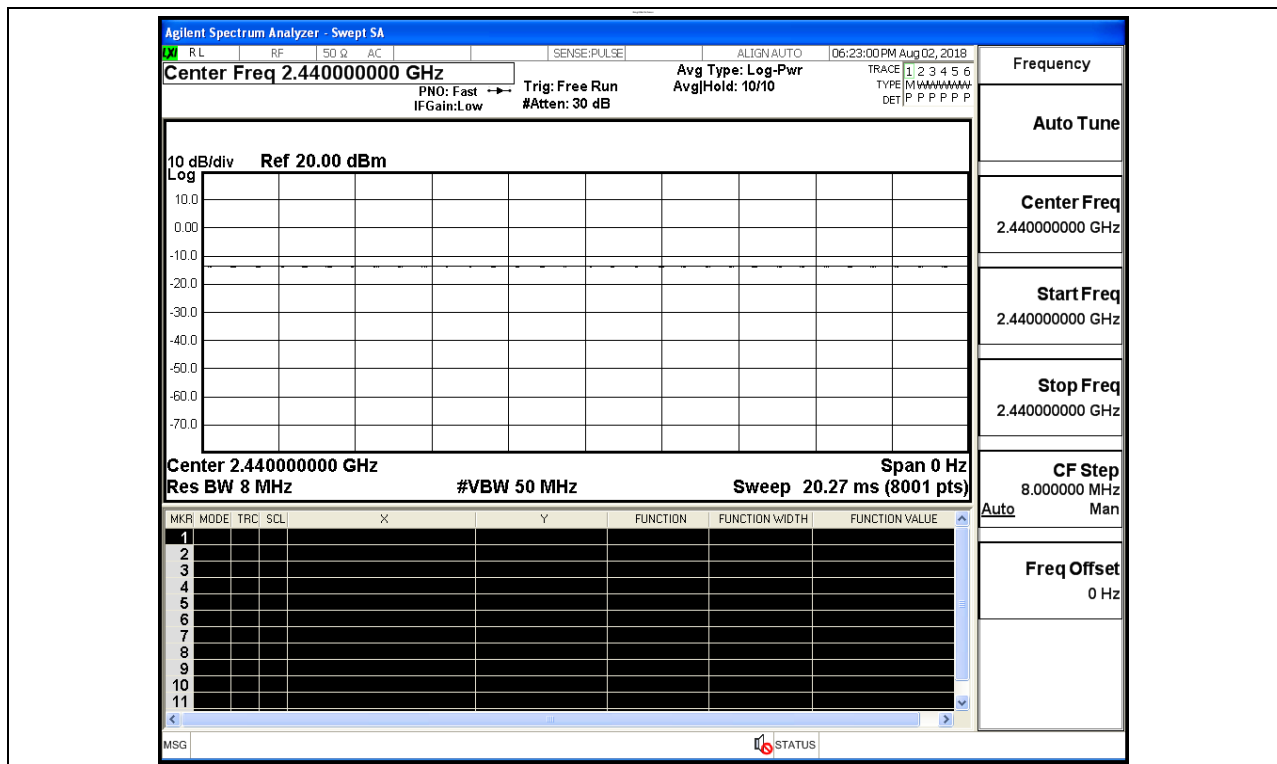
Test Model: iMed16

Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	WangChuang
Supervised by:	Jayden.Zhuo

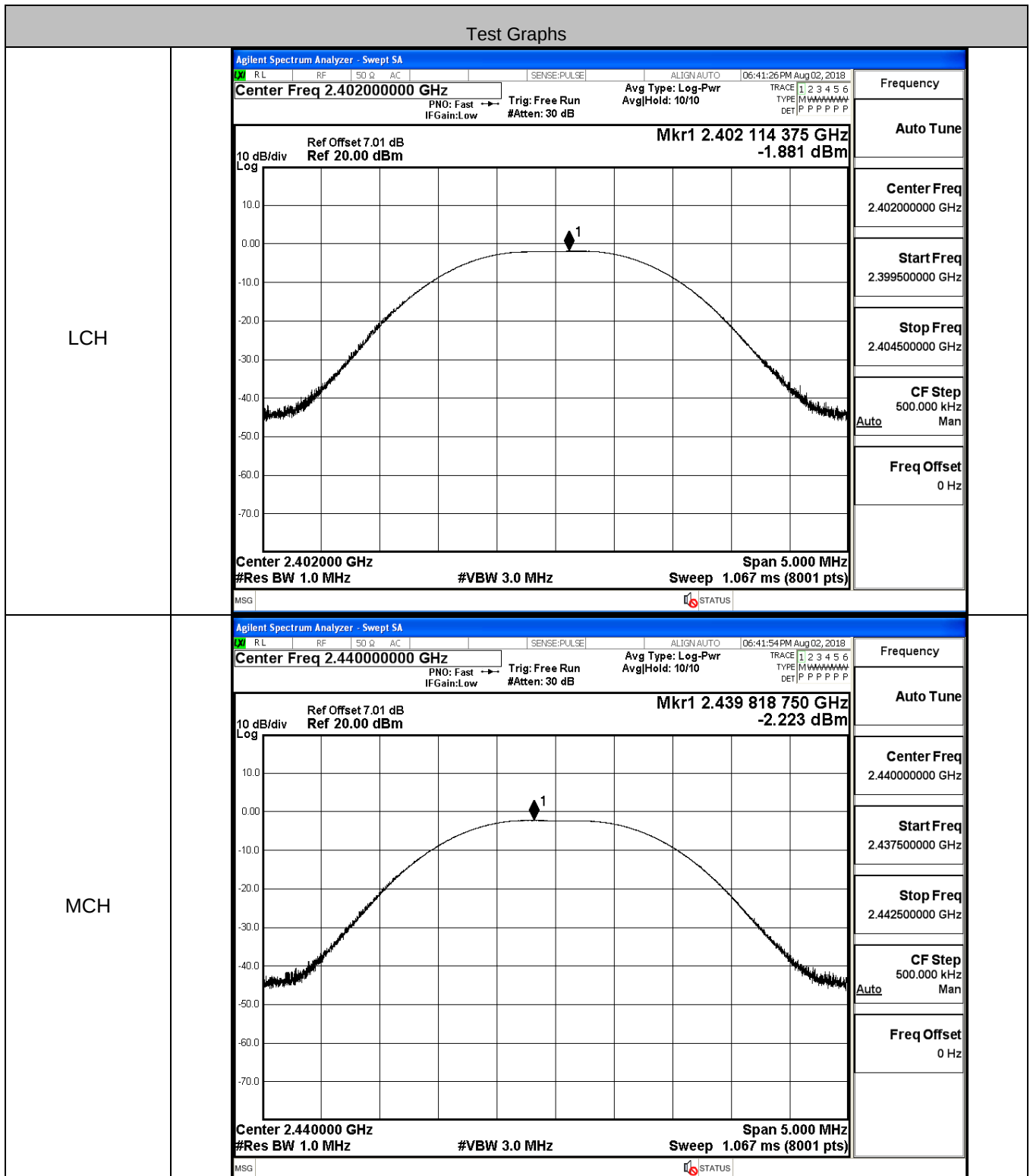
A.1 Duty Cycle

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

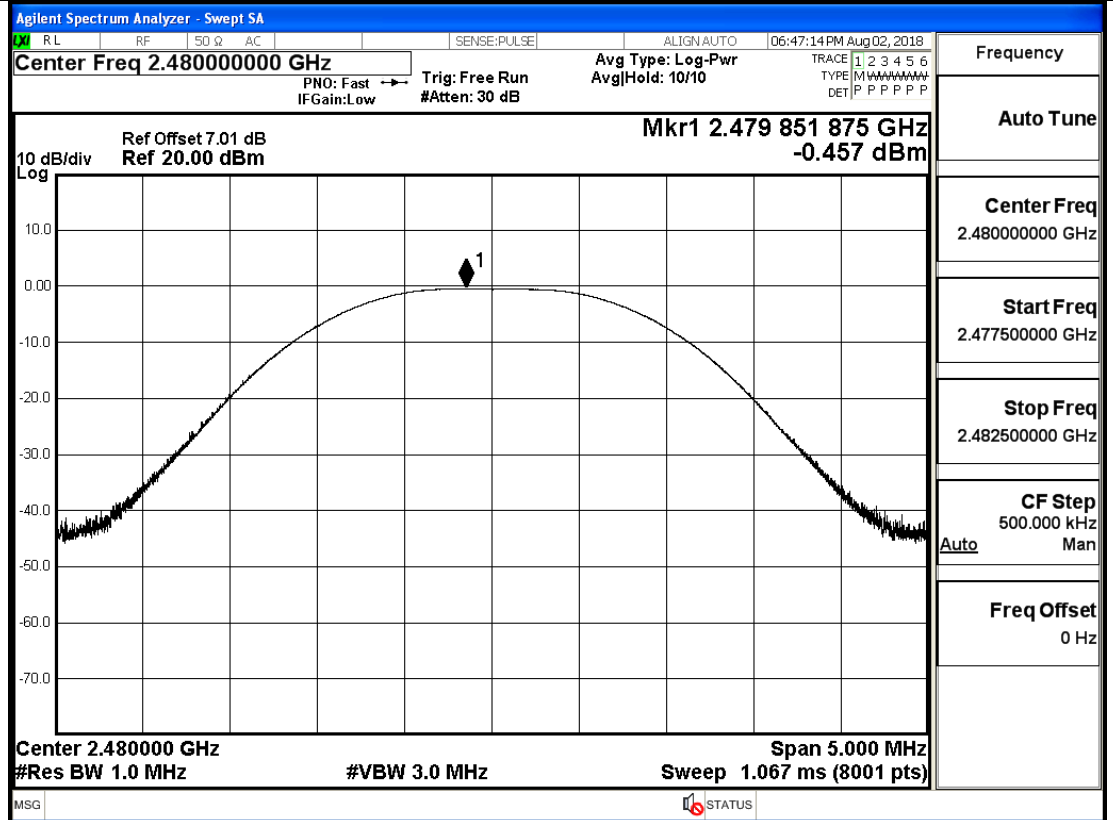


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.881	30	PASS
BT LE	MCH	-2.223	30	PASS
BT LE	HCH	-0.457	30	PASS



HCH

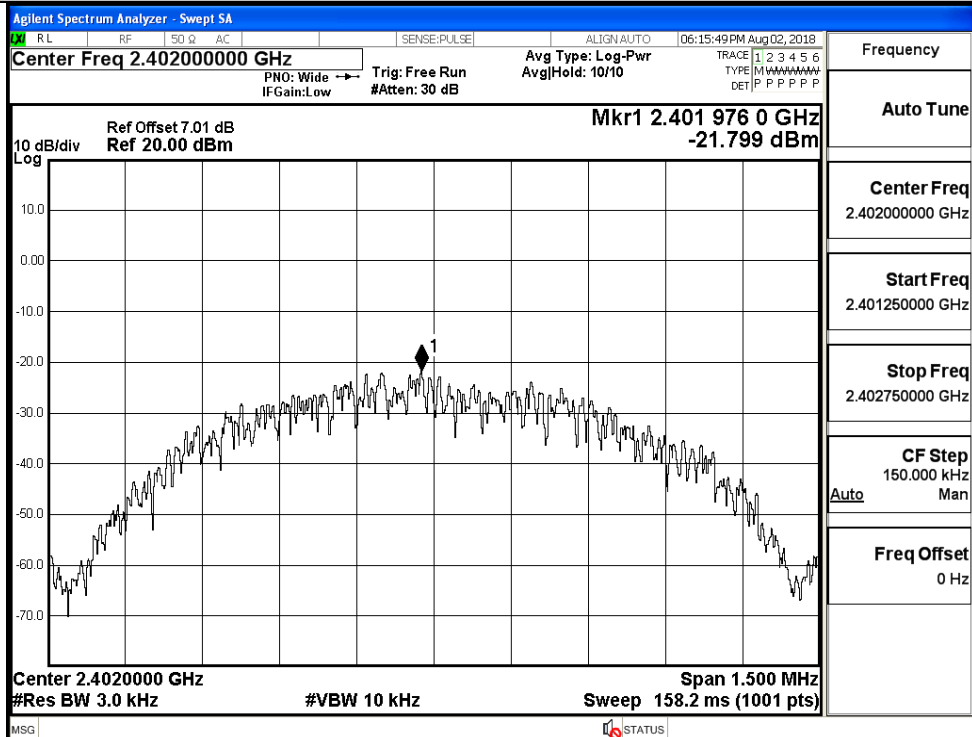


A.3 Maximum Power Spectral Density

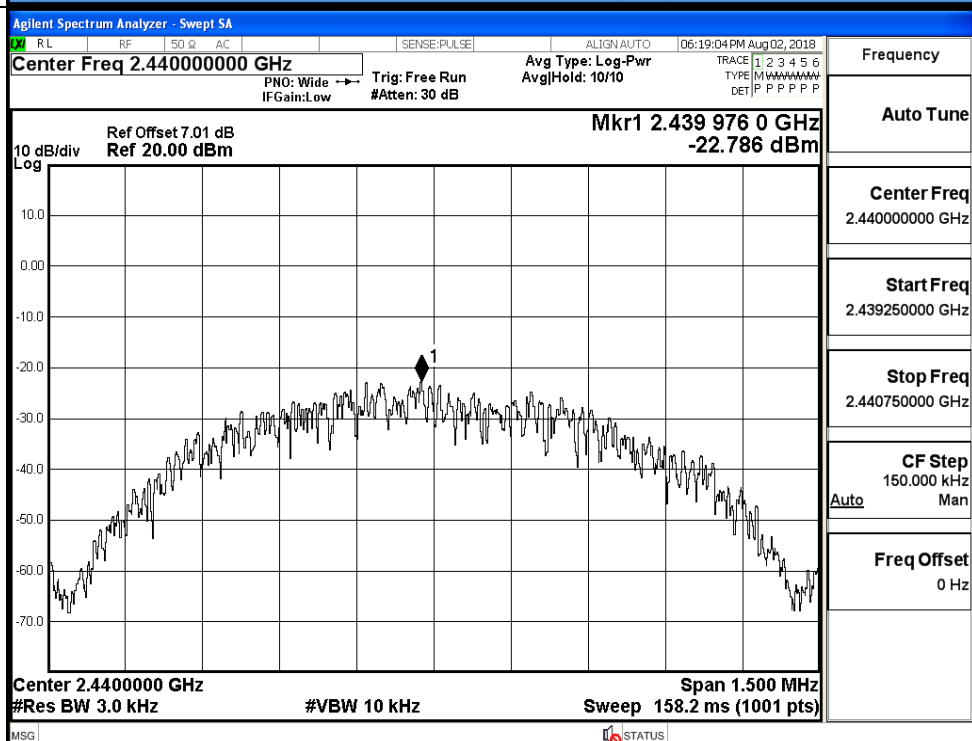
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-21.799	8	PASS
BT LE	MCH	-22.786	8	PASS
BT LE	HCH	-22.938	8	PASS

Test Graphs

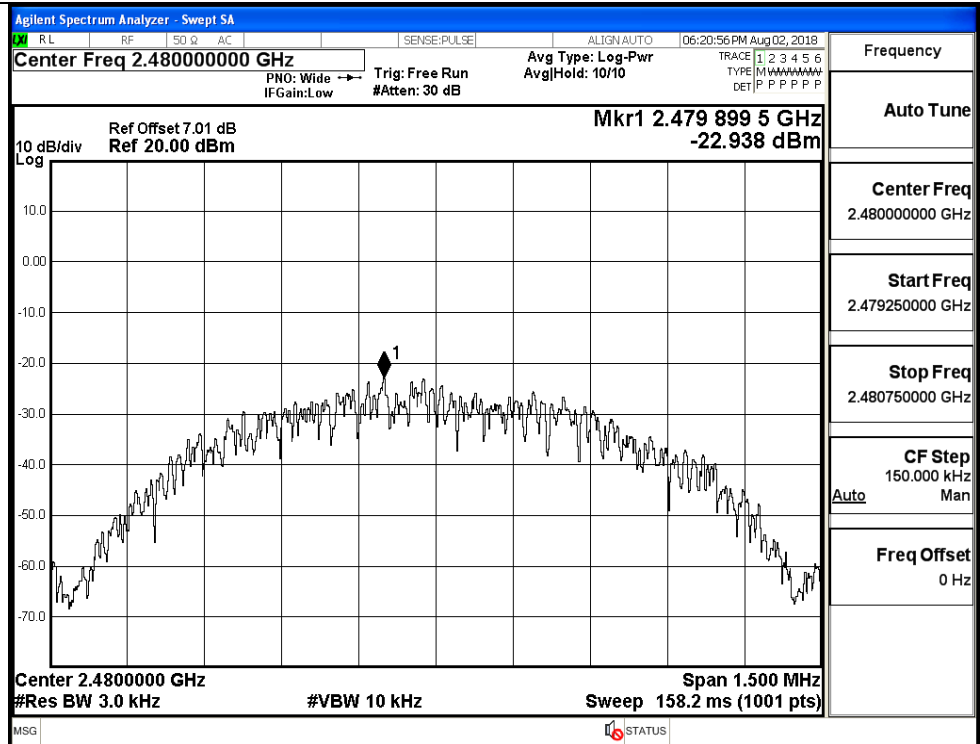
LCH



MCH



HCH

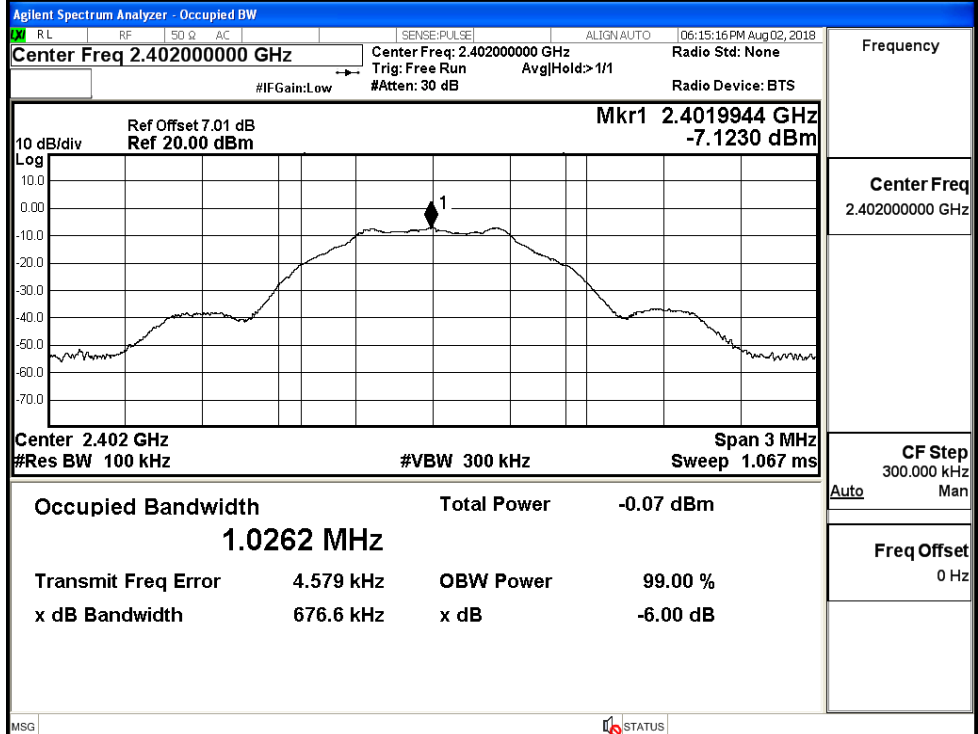


A.4 6dB Bandwidth

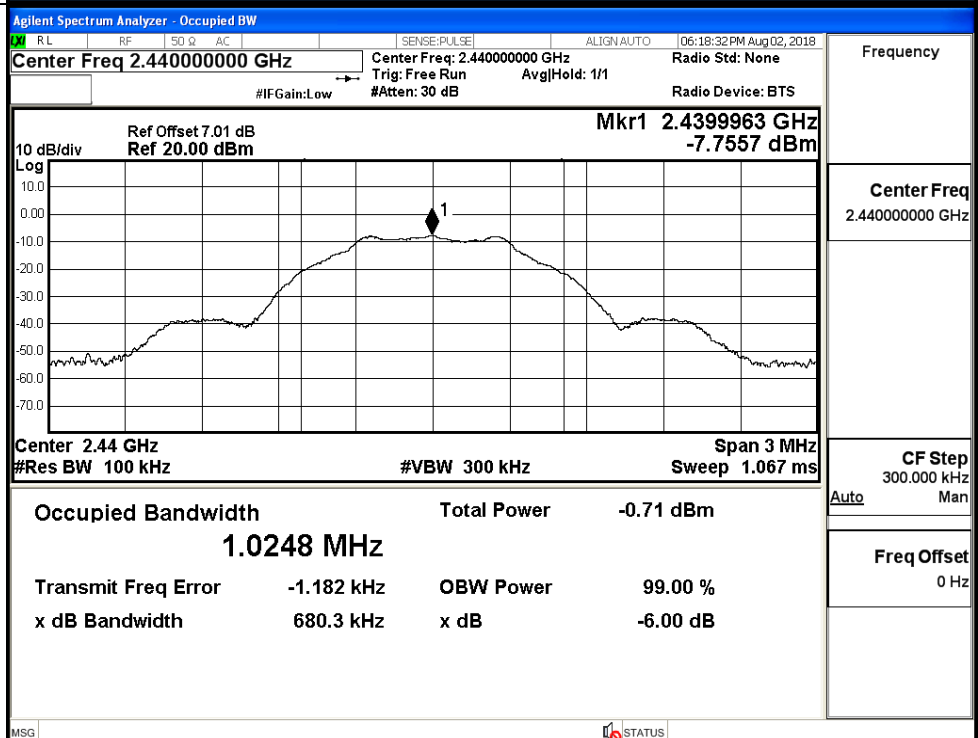
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6766	≥ 0.5	PASS
BT LE	MCH	0.6803	≥ 0.5	PASS
BT LE	HCH	0.6726	≥ 0.5	PASS

Test Graphs

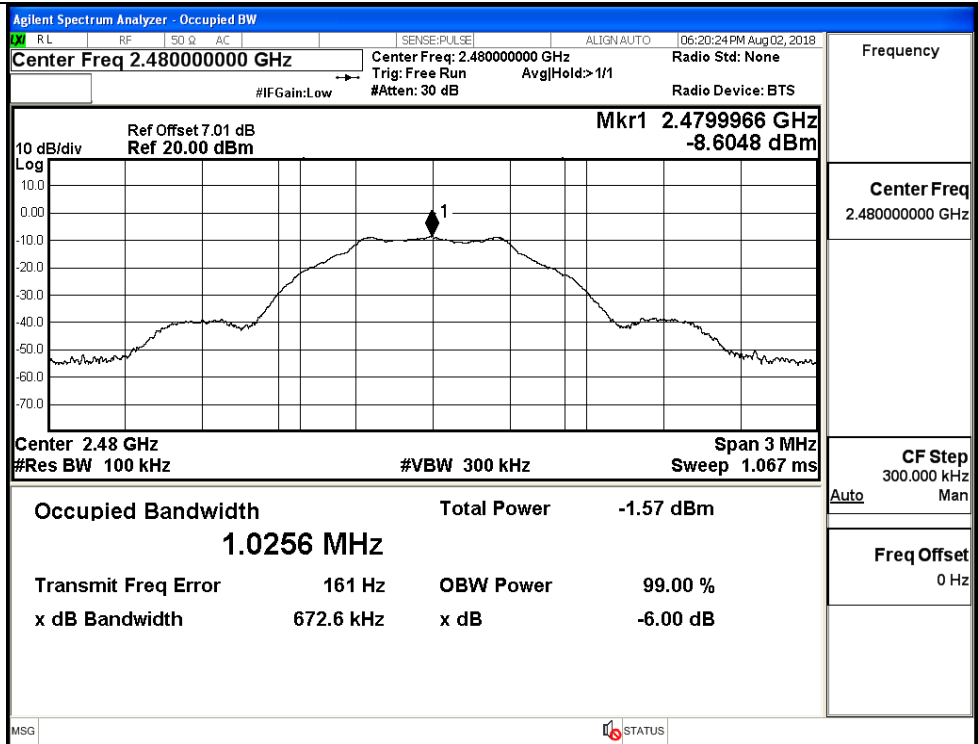
LCH



MCH



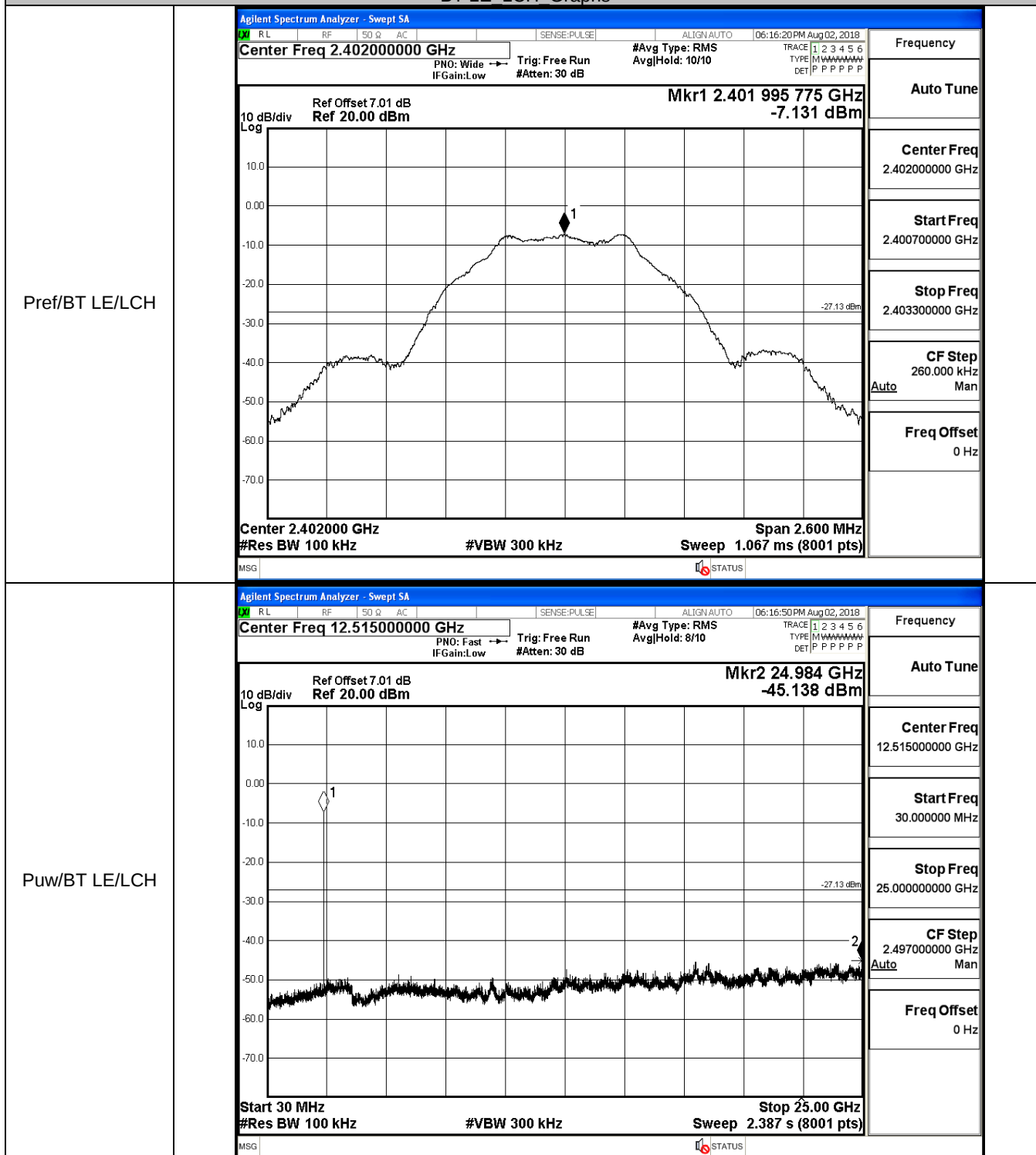
HCH



A.5 RF Conducted Spurious Emissions

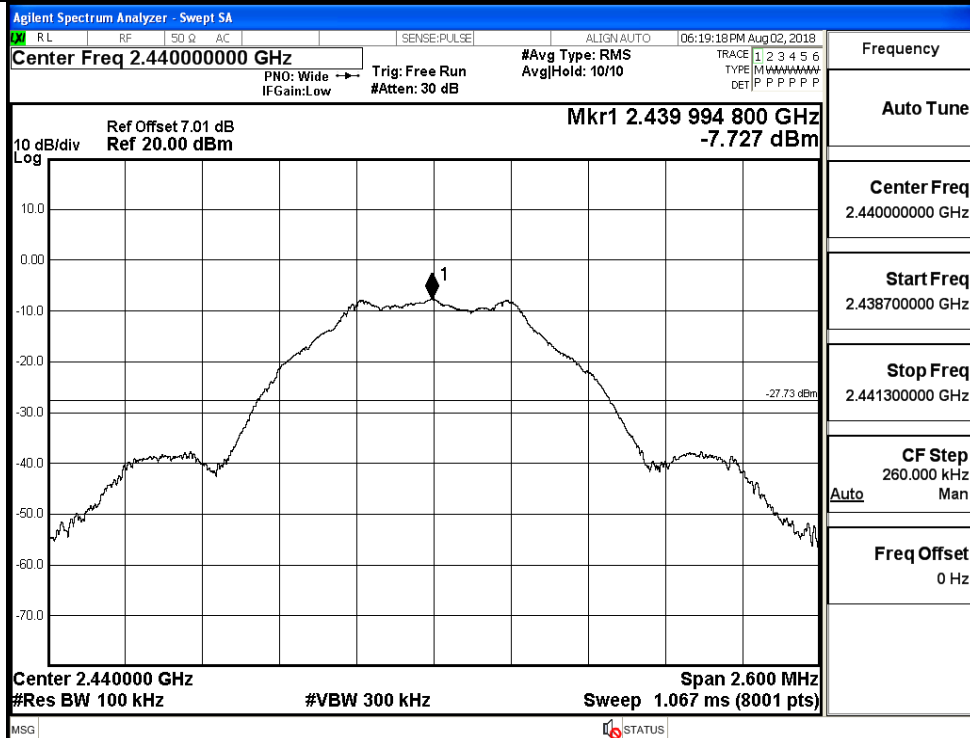
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.131	-45.138	-27.131	PASS
BT LE	MCH	-7.727	-45.080	-27.727	PASS
BT LE	HCH	-8.598	-45.140	-28.598	PASS

BT LE LCH Graphs

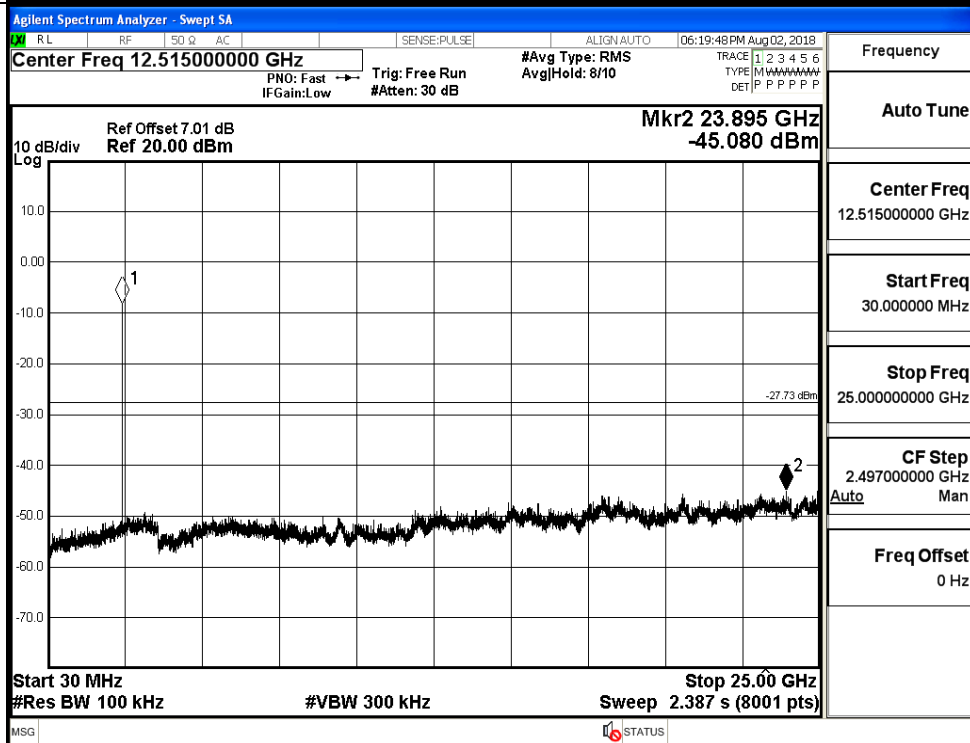


BT LE MCH Graphs

Pref/BT LE/MCH

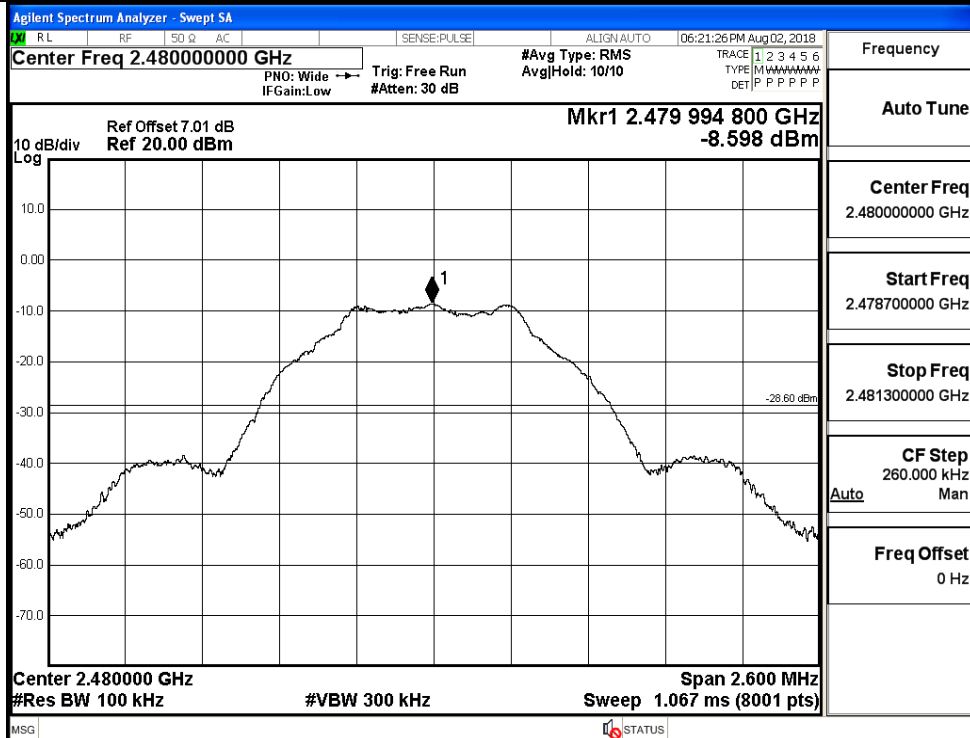


Puw/BT LE/MCH

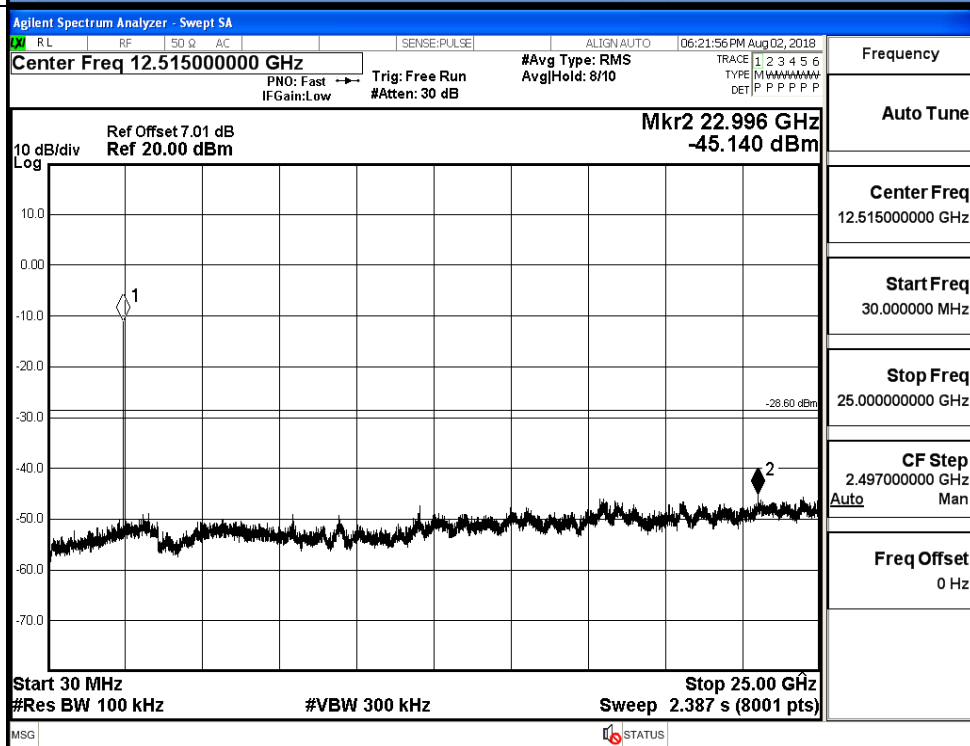


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

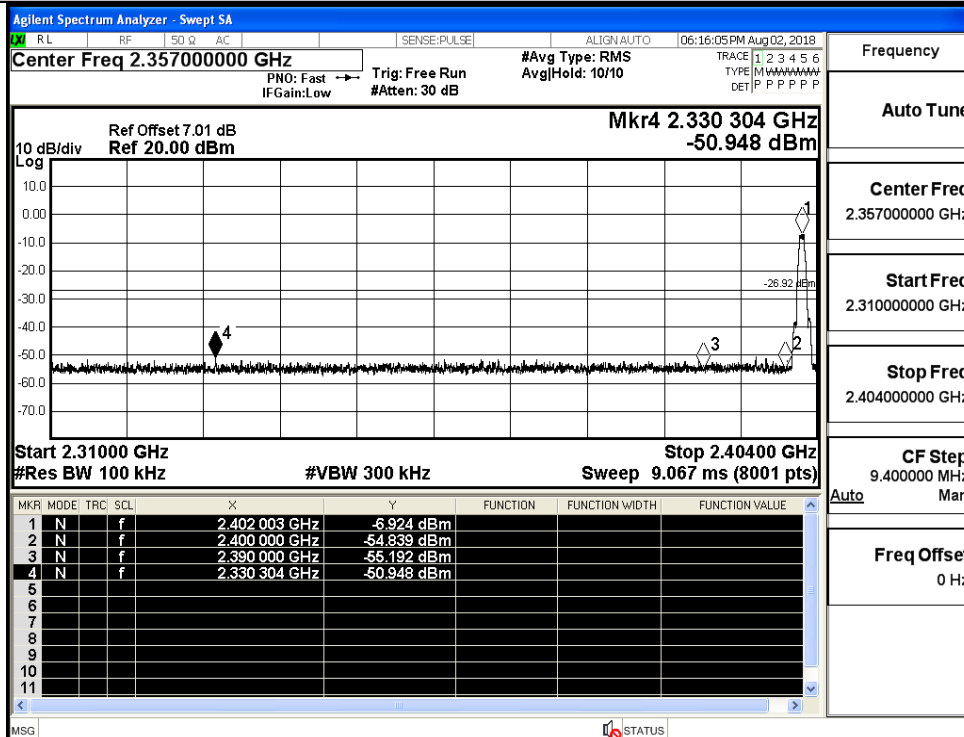


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-6.924	-50.948	-26.92	PASS
BT LE	HCH	-8.503	-50.702	-28.5	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq
2.357000000 GHz

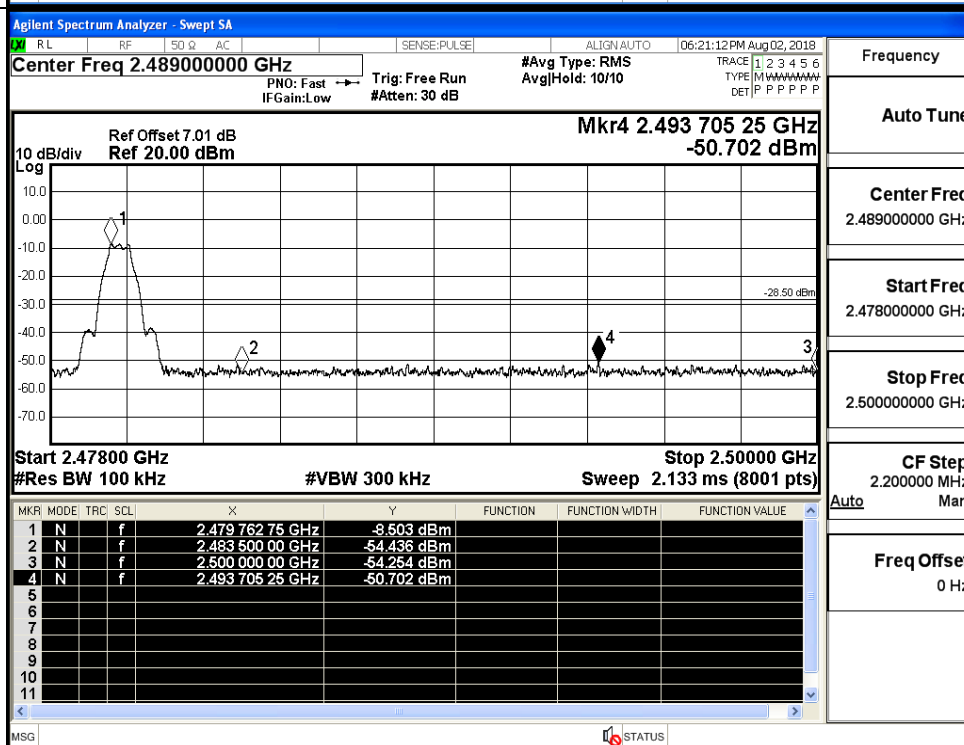
Start Freq
2.310000000 GHz

Stop Freq
2.404000000 GHz

CF Step
9.400000 MHz

Freq Offset
0 Hz

HCH



Frequency

Auto Tune

Center Freq
2.489000000 GHz

Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

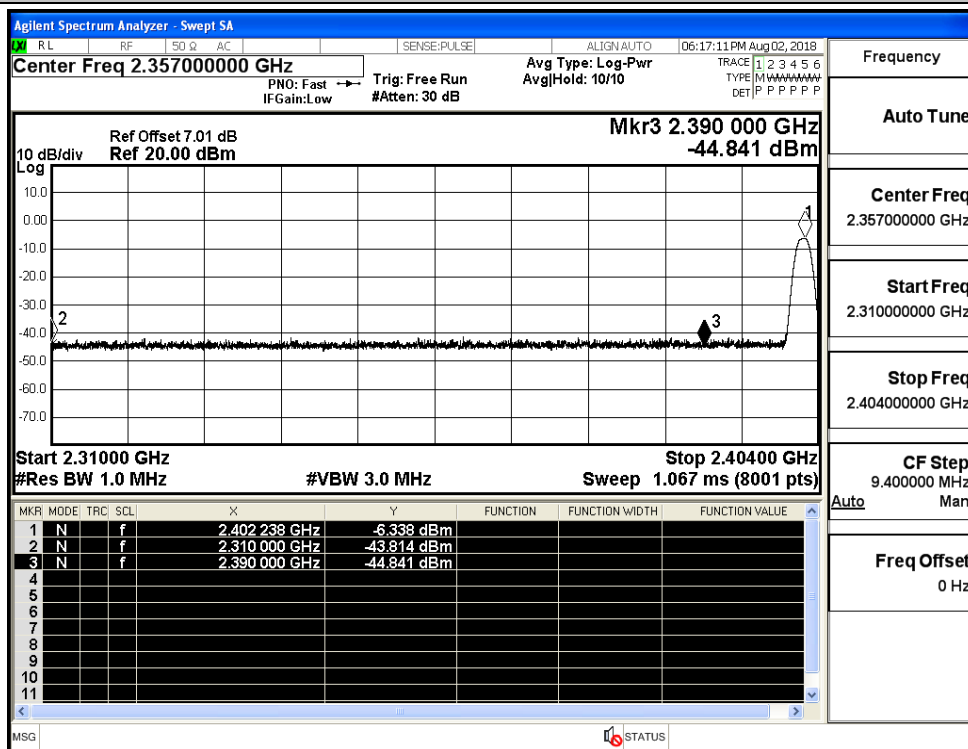
CF Step
2.200000 MHz

Freq Offset
0 Hz

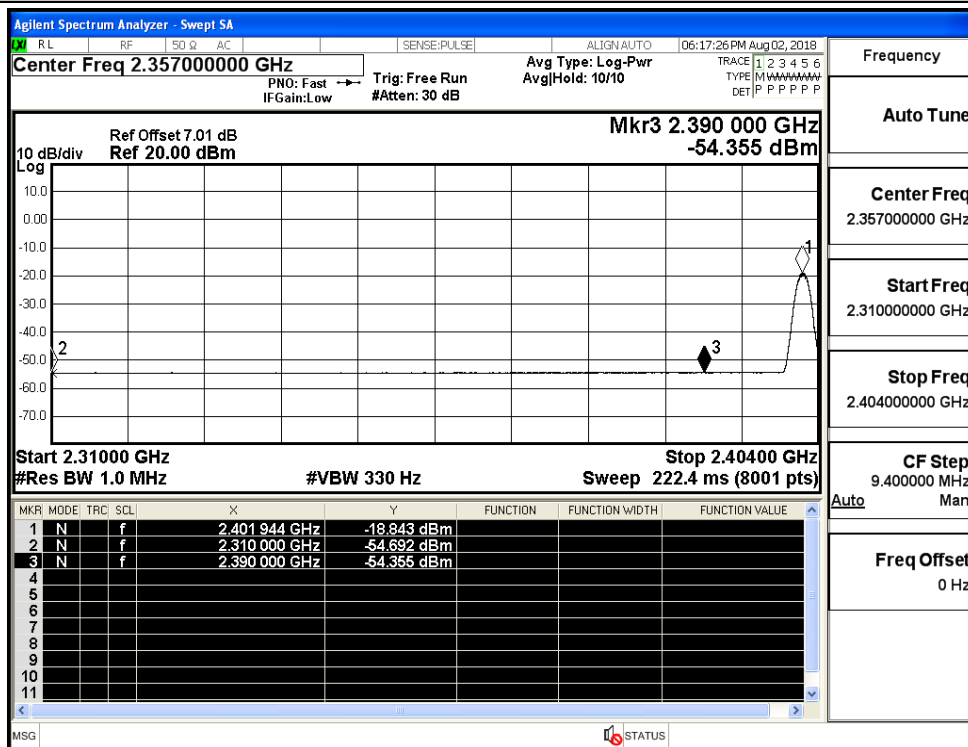
A.7 Restrict-band band-edge measurements

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	-43.81	2.0	0	53.44	PEAK	74	PASS
		Ant1	2310.0	-54.69	2.0	0	42.57	AV	54	PASS
		Ant1	2390.0	-44.84	2.0	0	52.42	PEAK	74	PASS
		Ant1	2390.0	-54.36	2.0	0	42.90	AV	54	PASS
	2480	Ant1	2483.5	-43.54	2.0	0	53.72	PEAK	74	PASS
		Ant1	2483.5	-54.20	2.0	0	43.06	AV	54	PASS
		Ant1	2500.0	-43.22	2.0	0	54.04	PEAK	74	PASS
		Ant1	2500.0	-54.06	2.0	0	43.20	AV	54	PASS

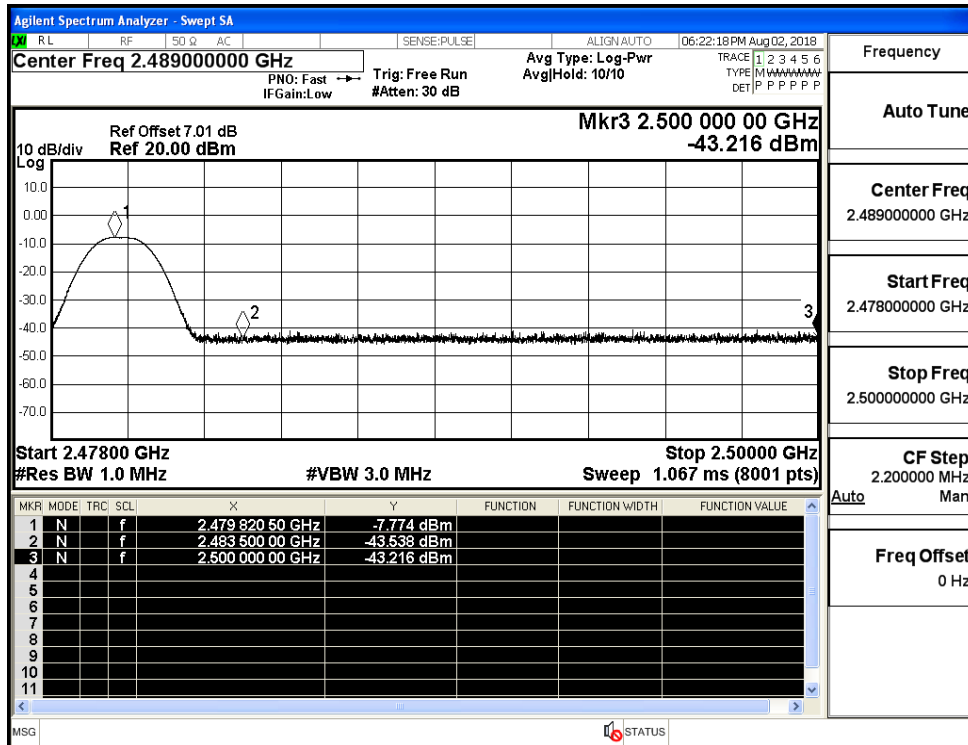
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

