

Appendix B

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

Product Name: Rugged Phone

Trade Mark: SNOPOW

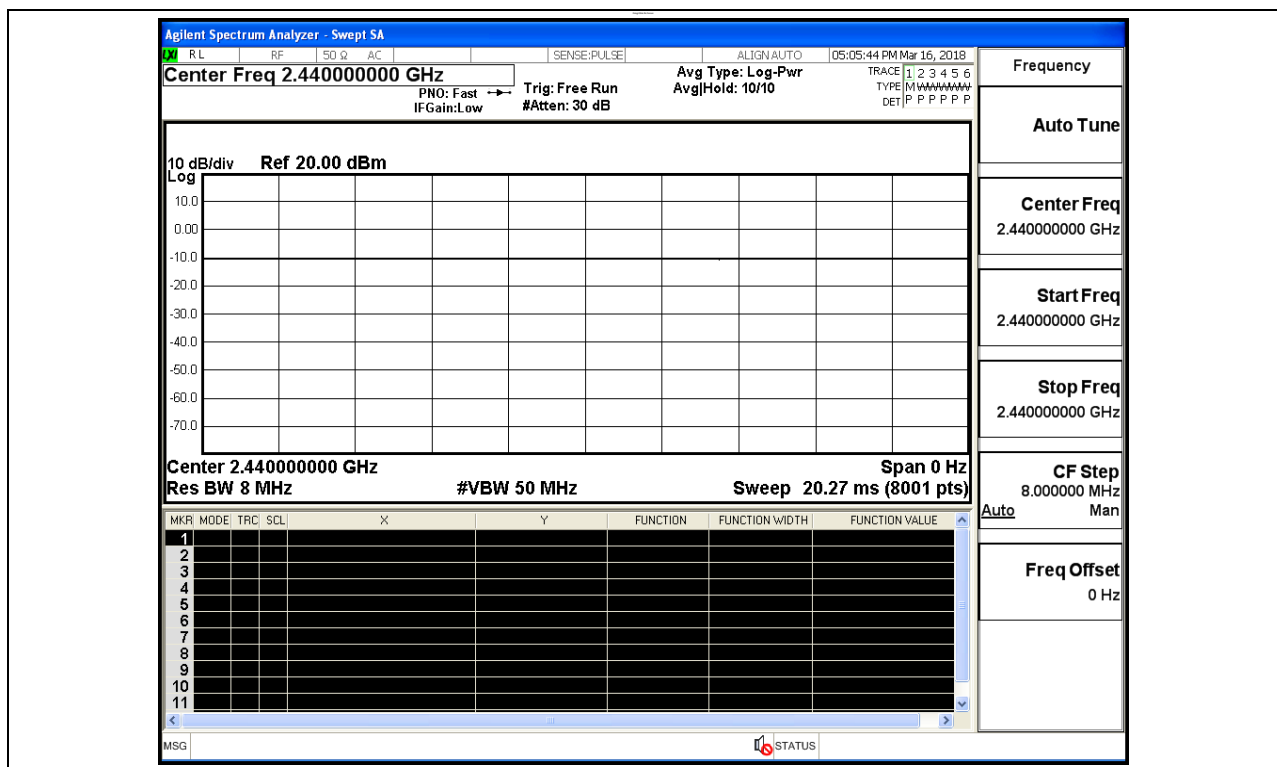
Test Model: M10

Environmental Conditions

Environmental Conditions	
Temperature:	23.5 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jayden Zhuo
Supervised by:	Dick Su

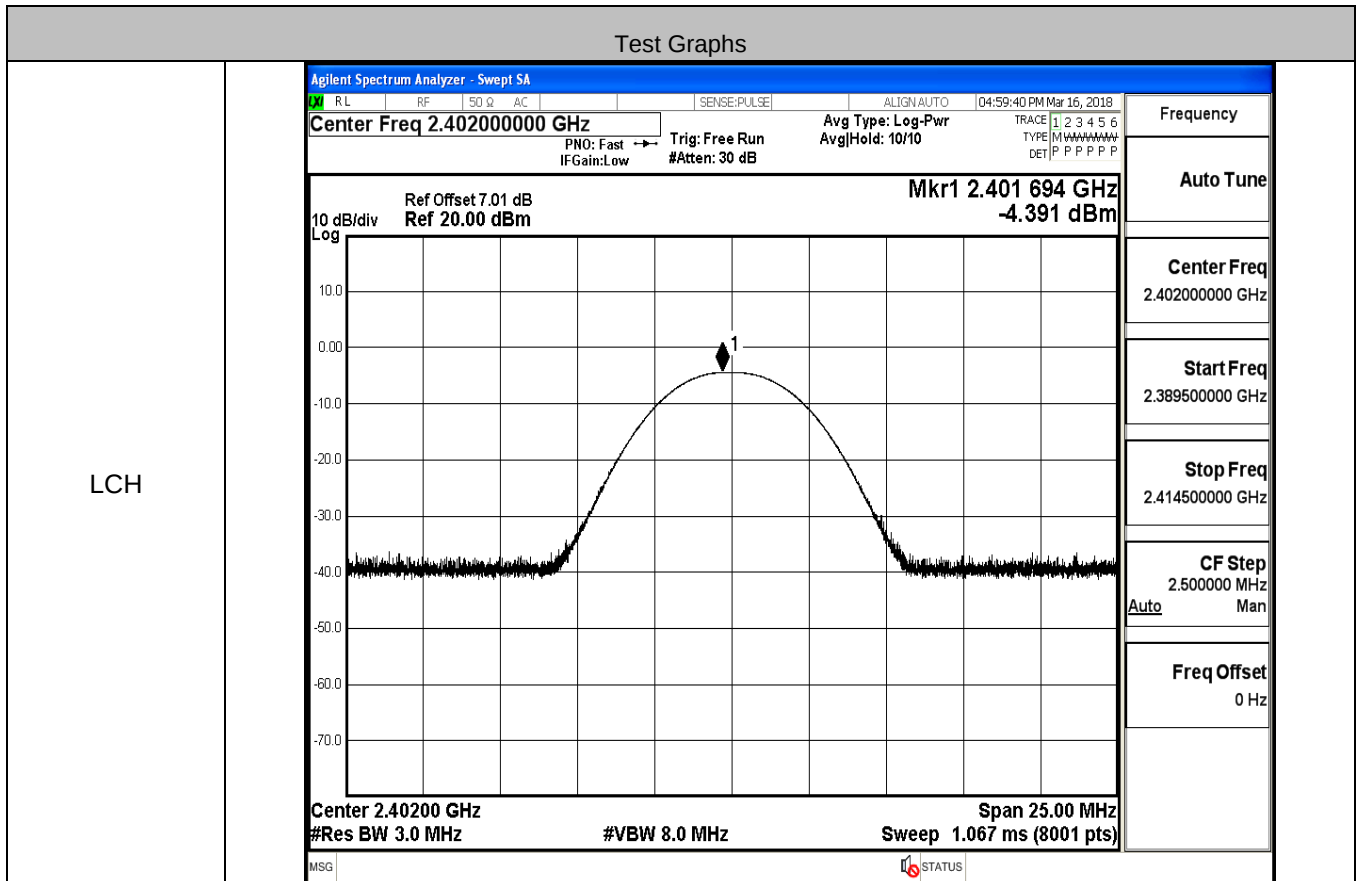
B.1 Duty Cycle

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

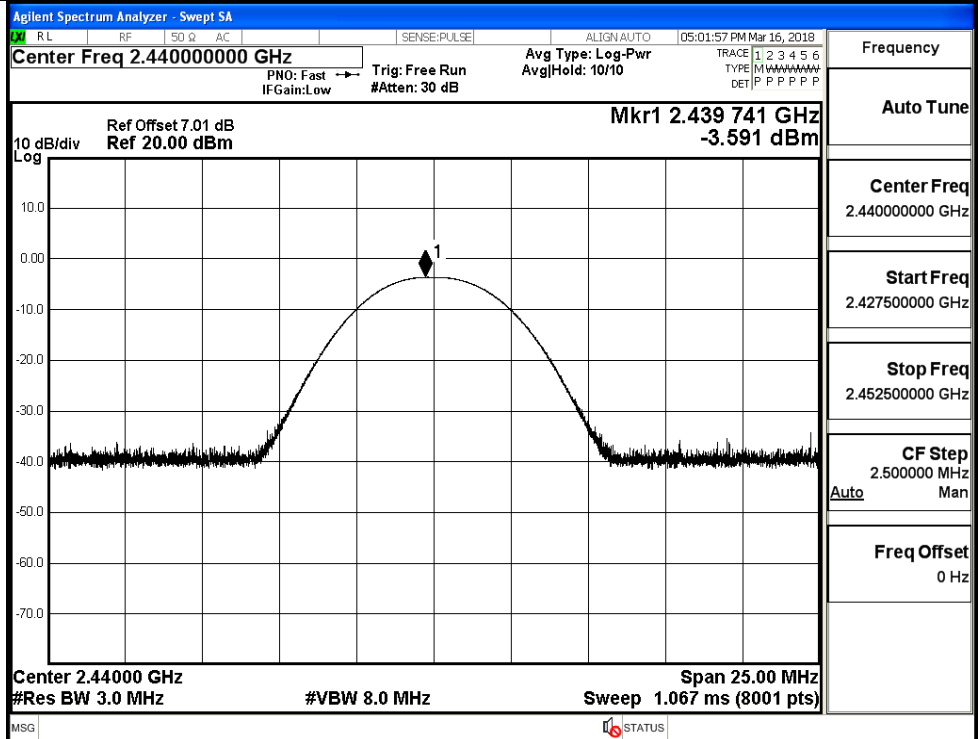


B.2 Maximum Conducted Peak Output Power

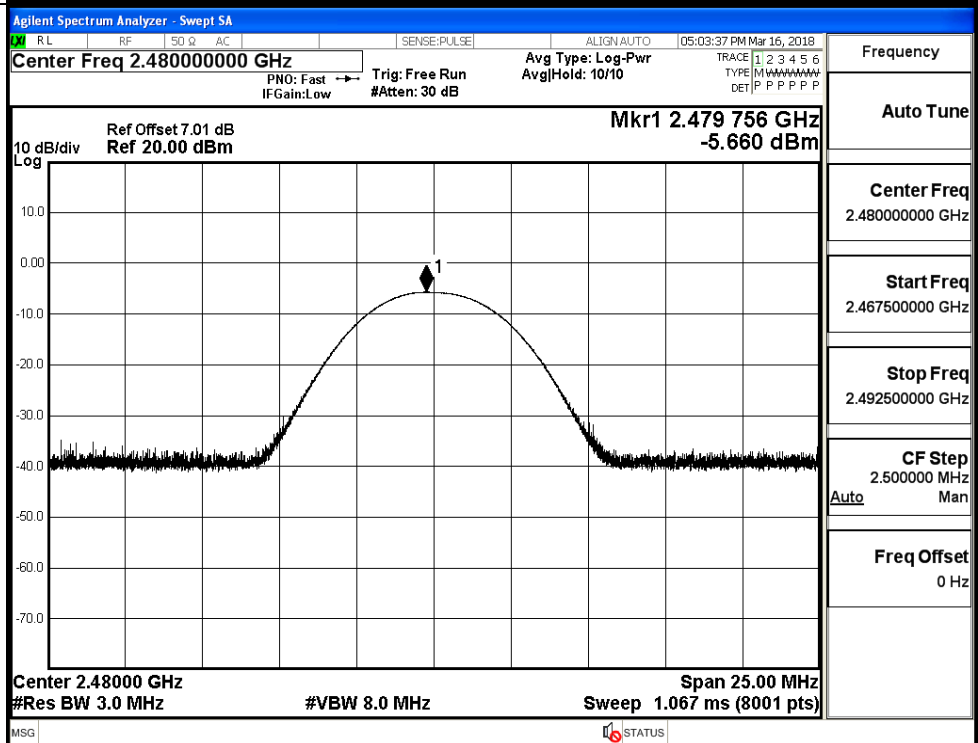
Mode	Channel	Conduct Peak Power[dBm]	Conduct Average Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.391	-4.485	30	PASS
BT LE	MCH	-3.591	-3.654	30	PASS
BT LE	HCH	-5.660	-5.782	30	PASS



MCH



HCH

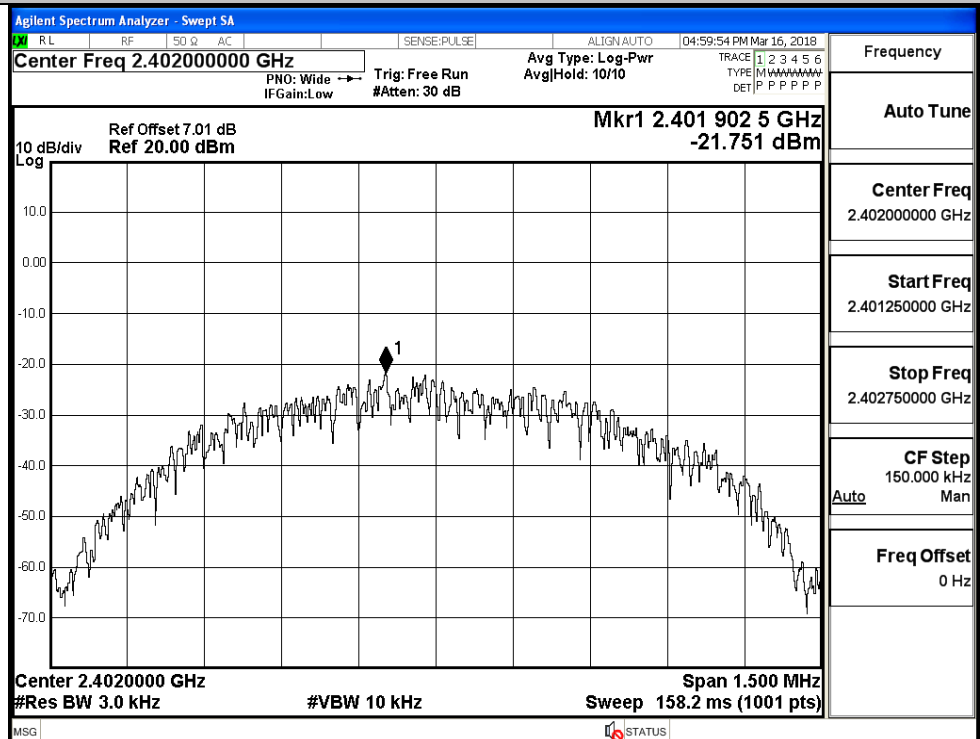


B.3 Maximum Power Spectral Density

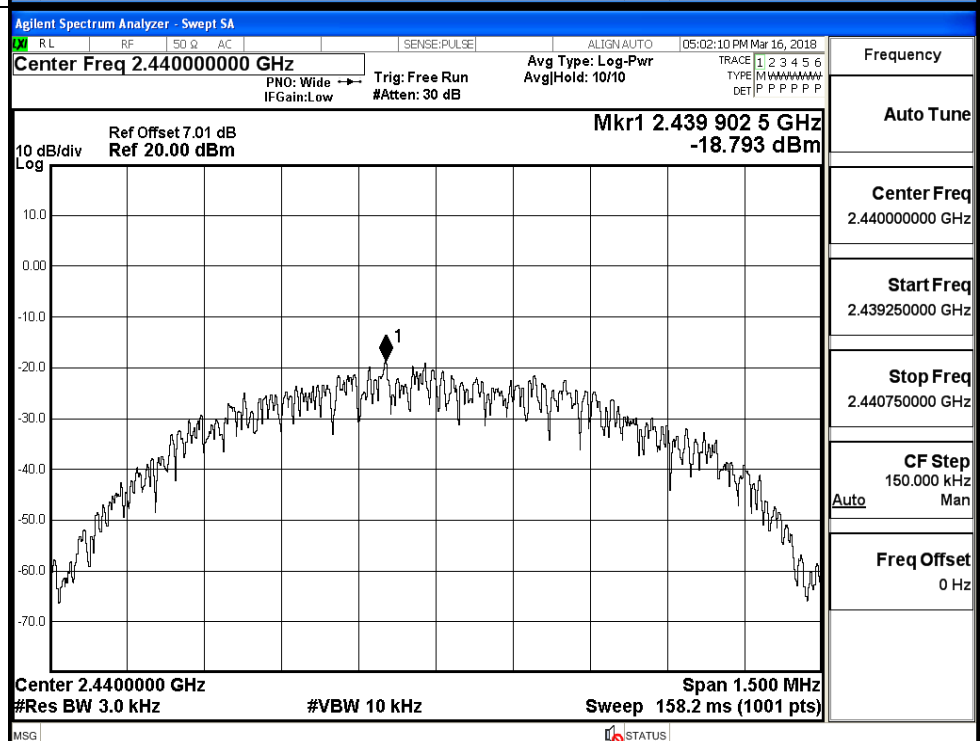
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-21.751	8	PASS
BT LE	MCH	-18.793	8	PASS
BT LE	HCH	-20.839	8	PASS

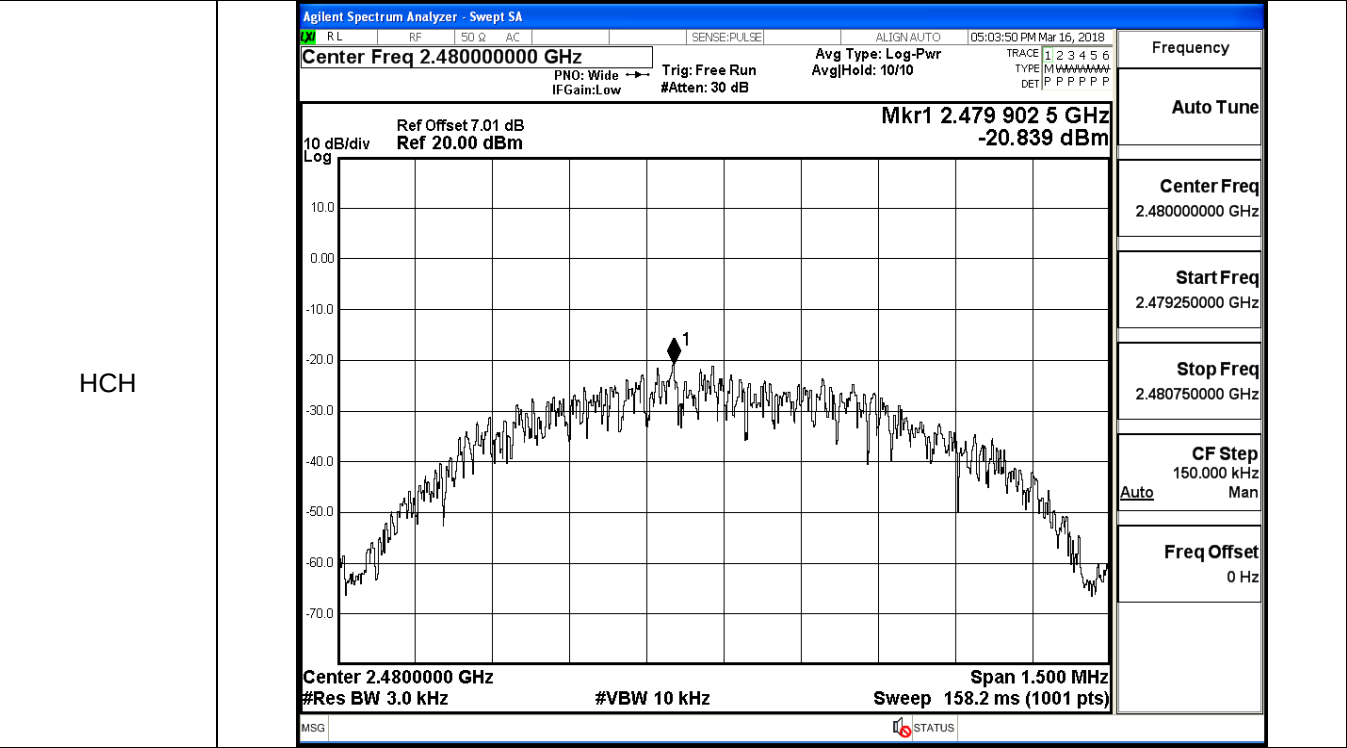
Test Graphs

LCH



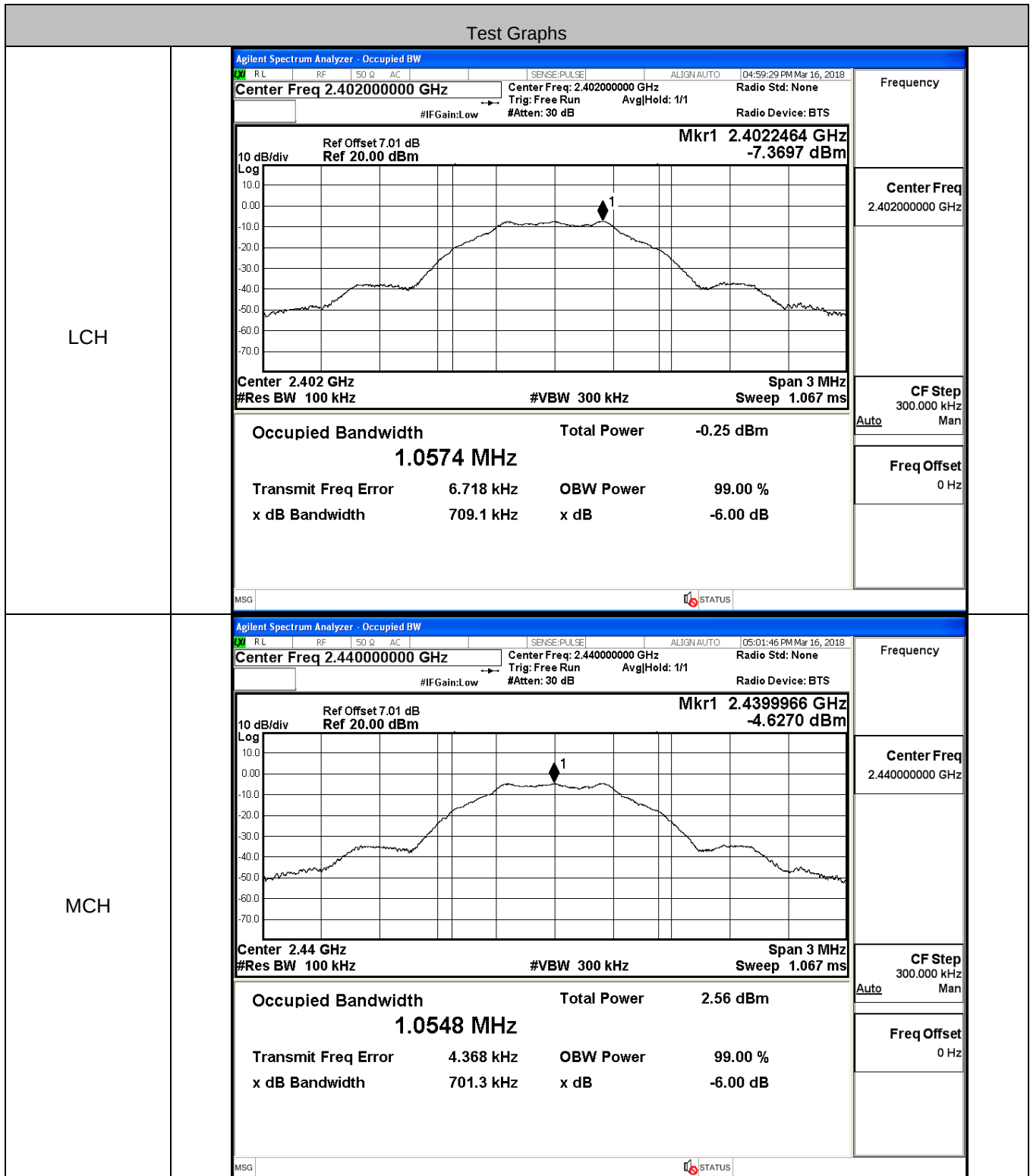
MCH



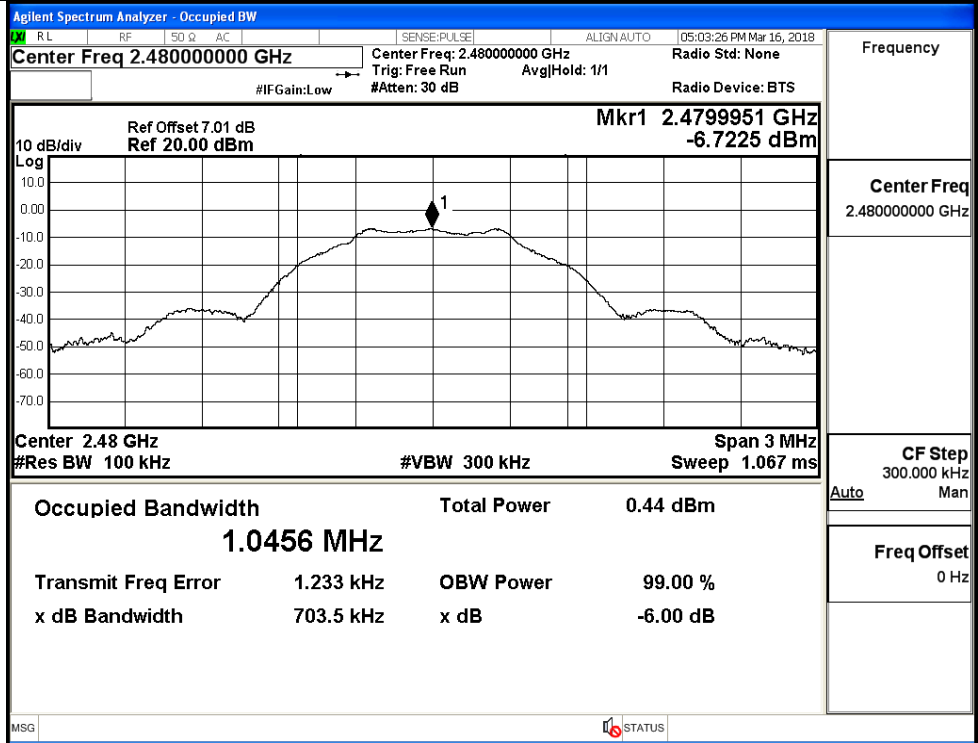


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7091	≥ 0.5	PASS
BT LE	MCH	0.7013	≥ 0.5	PASS
BT LE	HCH	0.7035	≥ 0.5	PASS

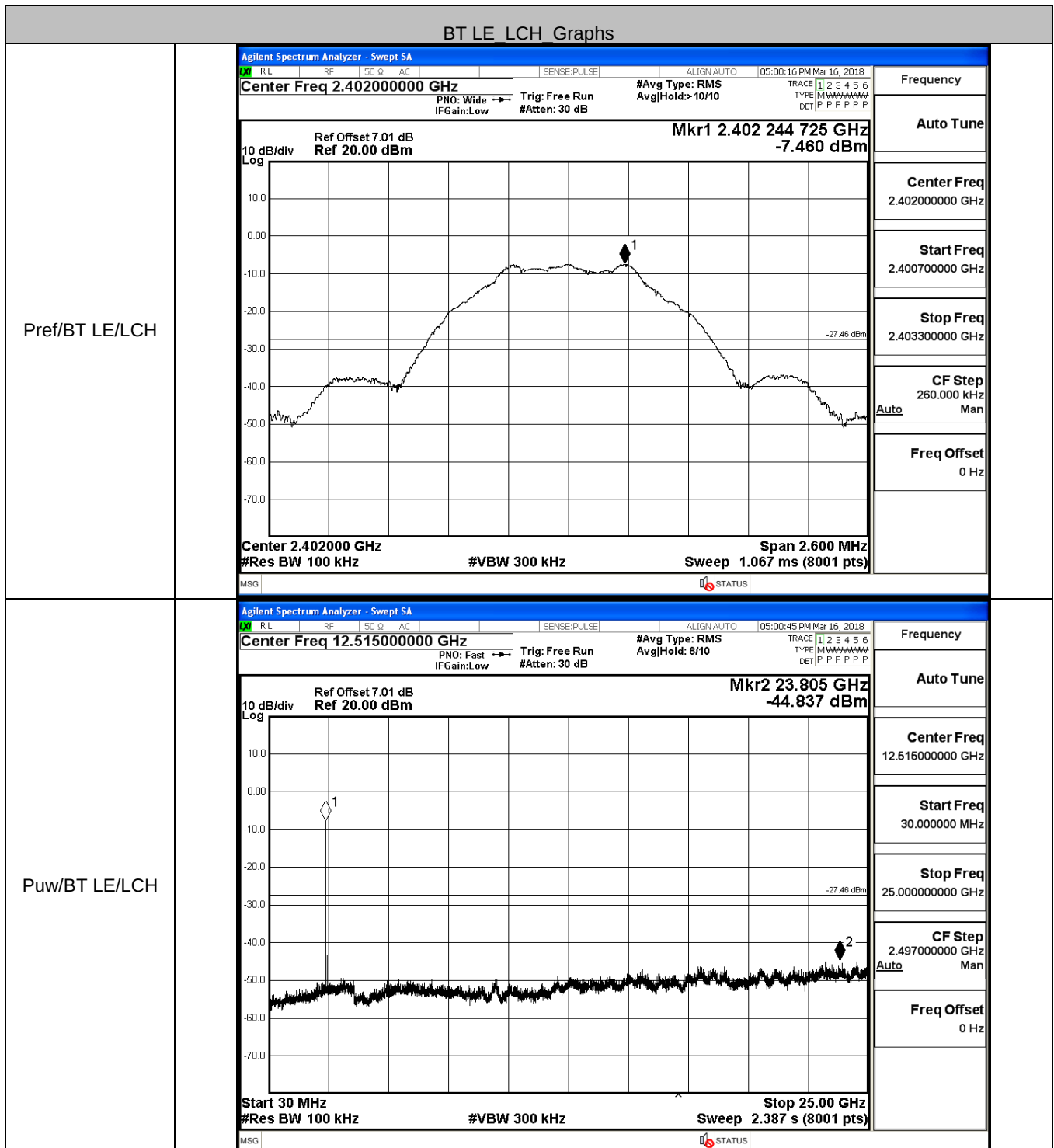


HCH



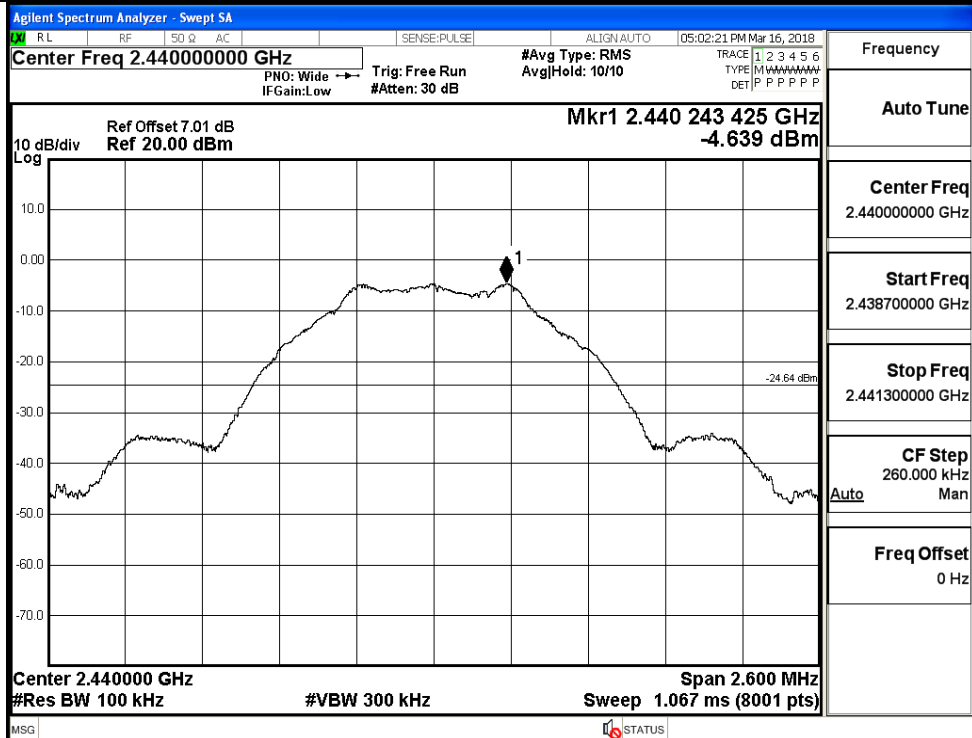
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.46	-44.837	-27.460	PASS
BT LE	MCH	-4.639	-43.650	-24.639	PASS
BT LE	HCH	-6.671	-45.260	-26.671	PASS

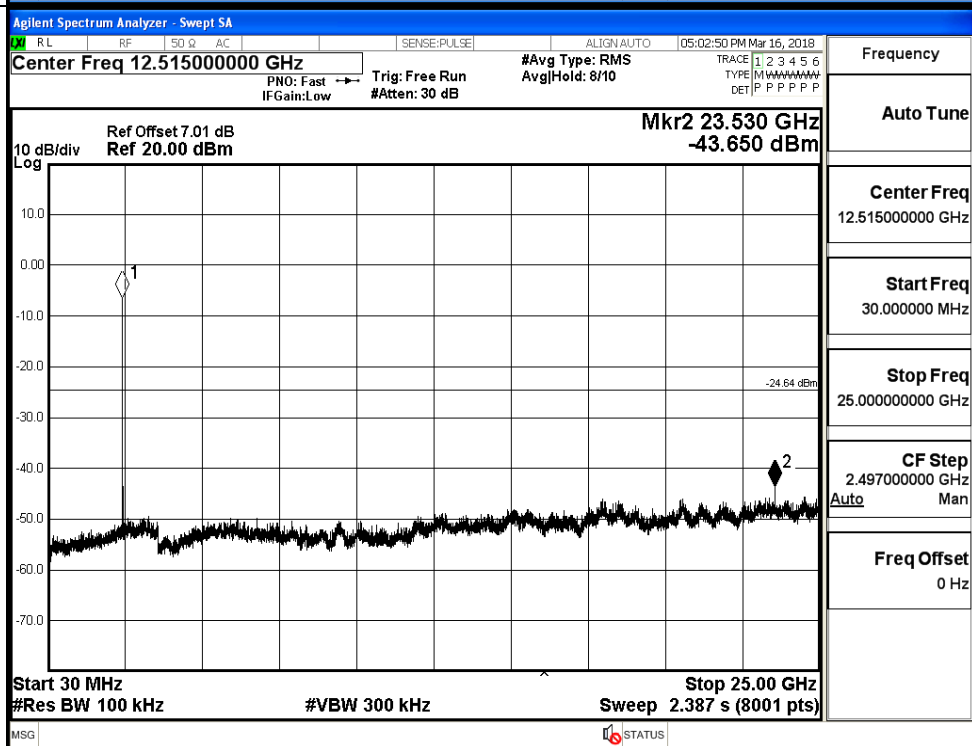


BT LE MCH Graphs

Pref/BT LE/MCH

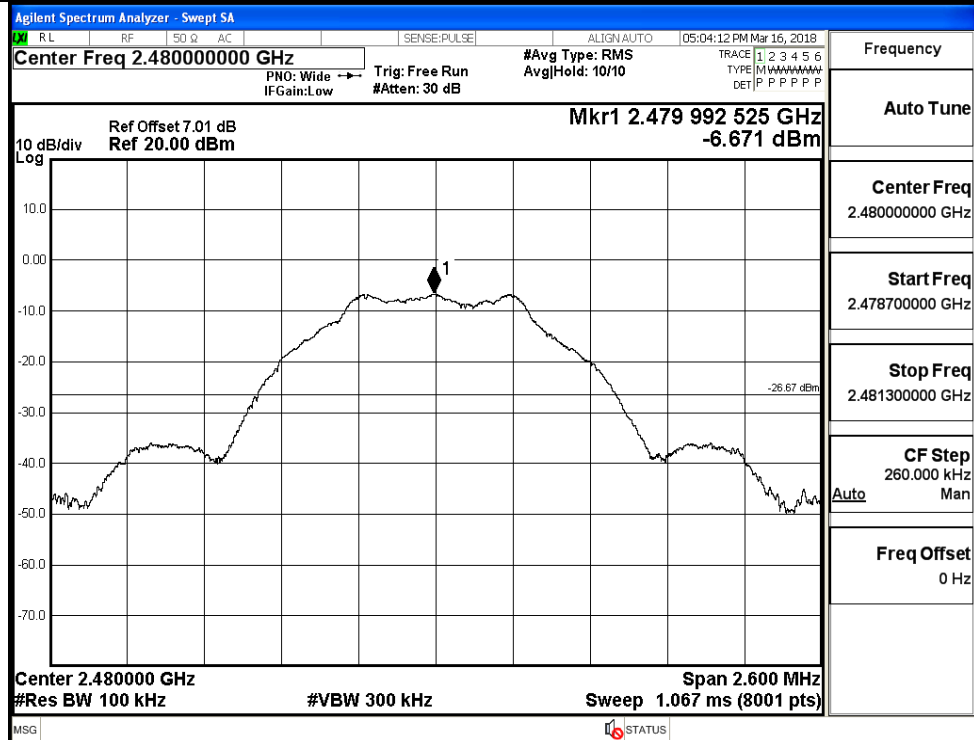


Puw/BT LE/MCH

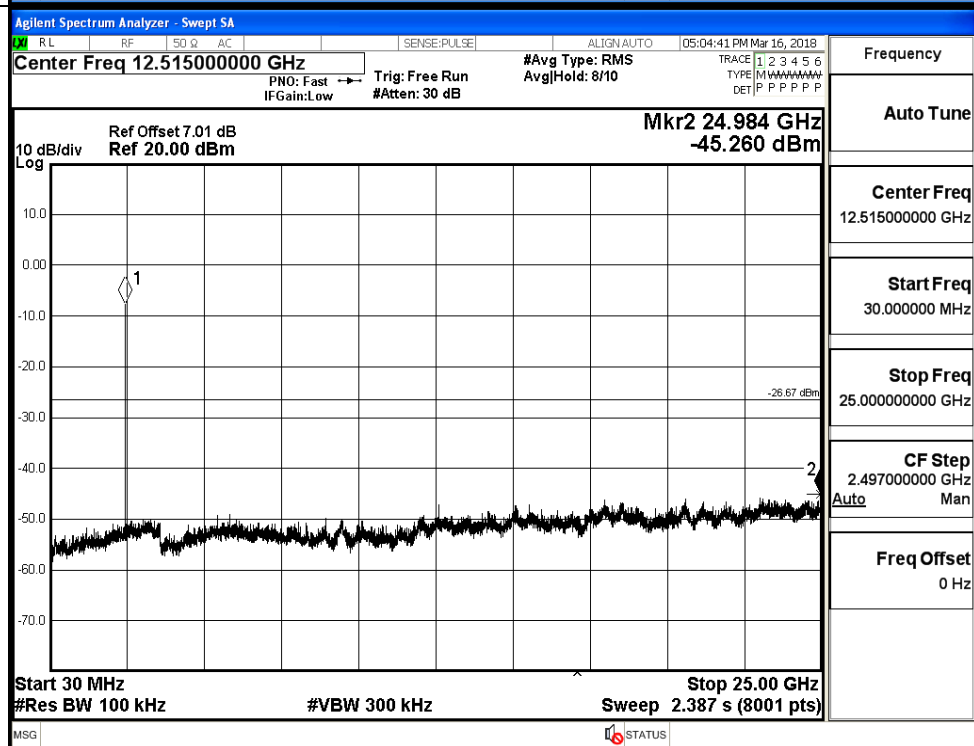


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

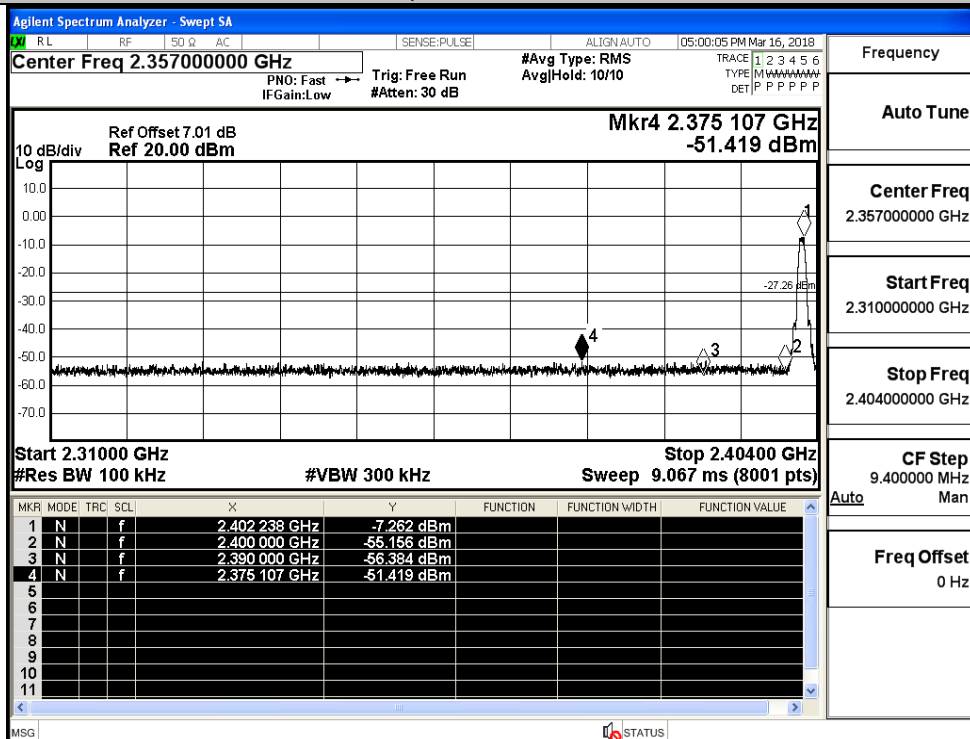


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.262	-51.419	-27.262	PASS
BT LE	HCH	-6.498	-51.226	-26.498	PASS

Test Graphs

LCH

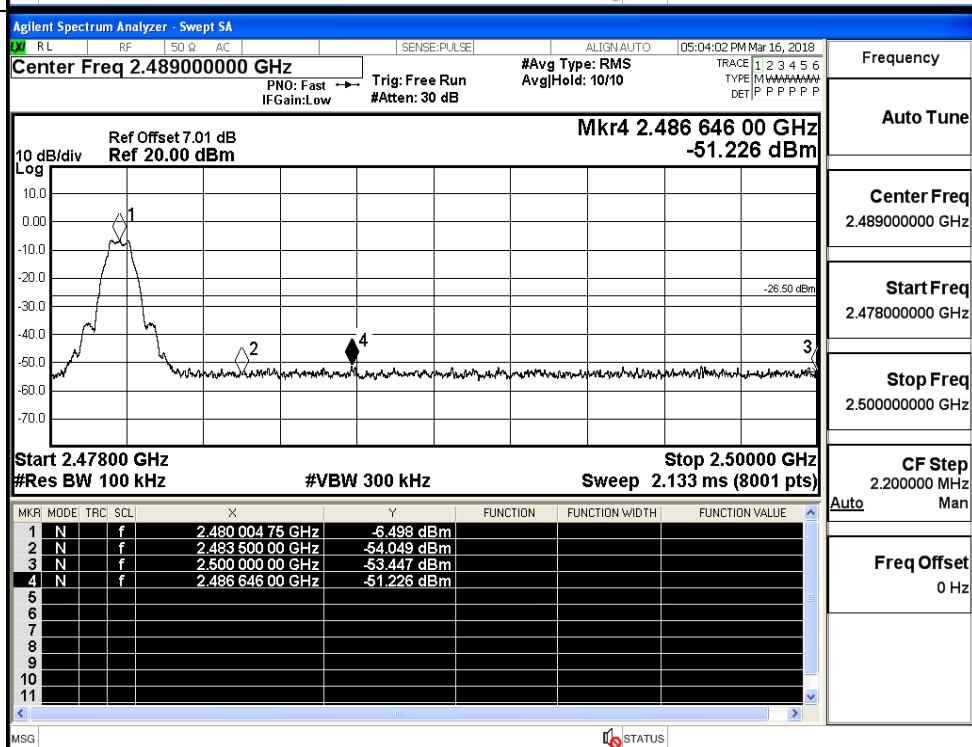


Frequency

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

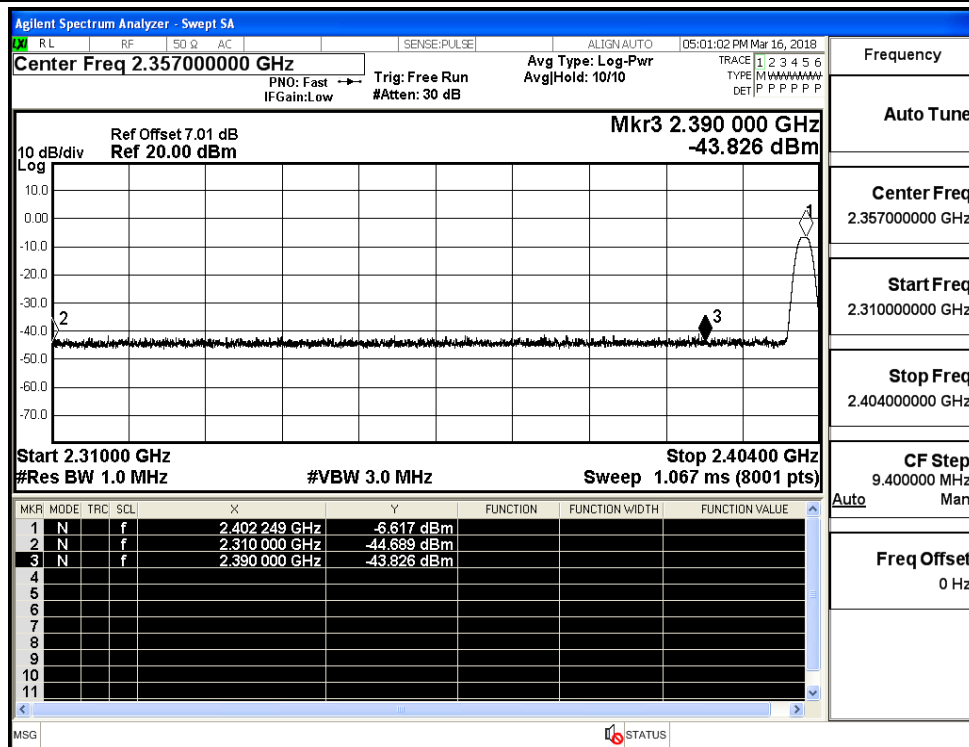
Auto Tune

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

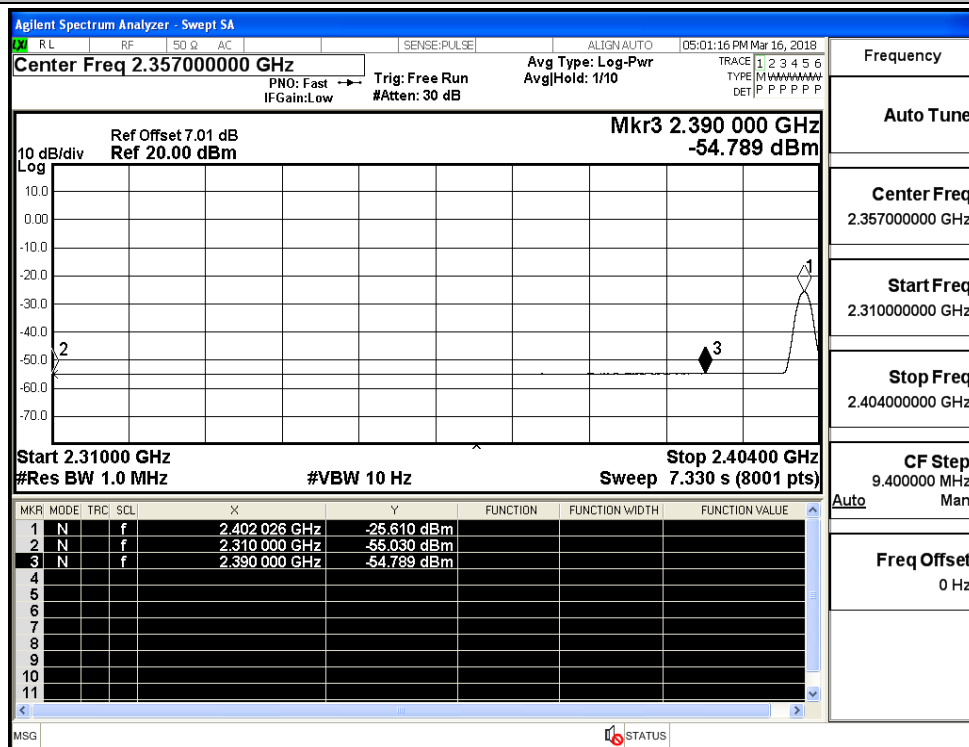
B.7 Restrict-band band-edge measurements

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	-44.69	2.0	0	52.57	PEAK	74	PASS
		Ant1	2310.0	-55.03	2.0	0	42.23	AV	54	PASS
		Ant1	2390.0	-43.83	2.0	0	53.43	PEAK	74	PASS
		Ant1	2390.0	-54.79	2.0	0	42.47	AV	54	PASS
	2480	Ant1	2483.5	-43.63	2.0	0	53.63	PEAK	74	PASS
		Ant1	2483.5	-54.57	2.0	0	42.69	AV	54	PASS
		Ant1	2500.0	-42.76	2.0	0	54.50	PEAK	74	PASS
		Ant1	2500.0	-54.41	2.0	0	42.85	AV	54	PASS

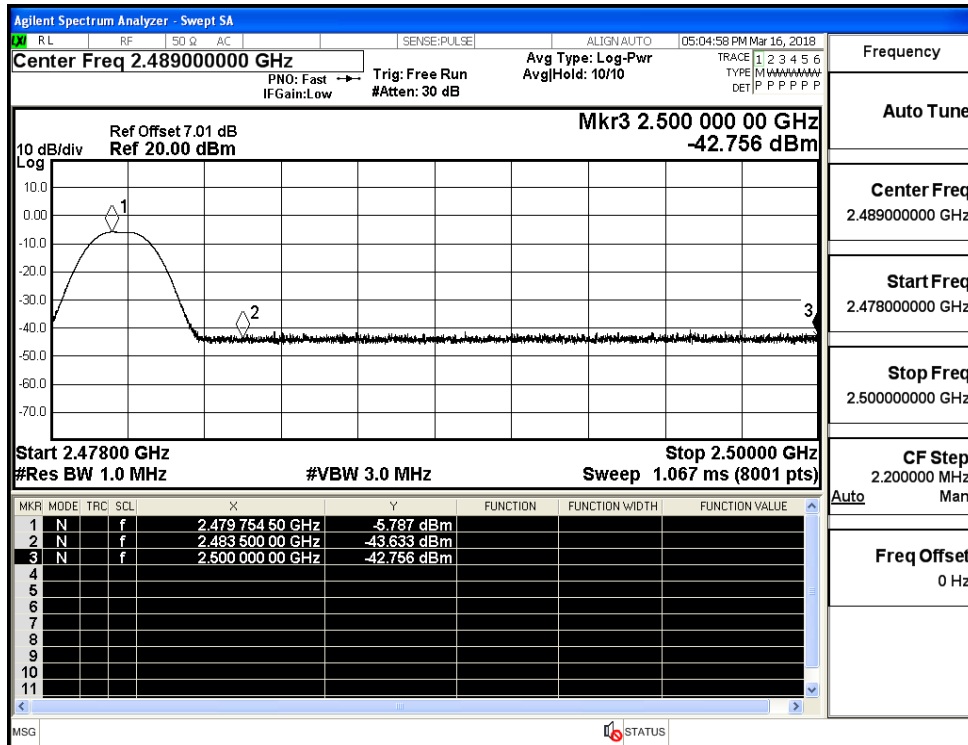
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

