

Appendix B

RF Test Data for BT V4.2BDR/EDR) (Conducted Measurement)

Product Name: BLUETOOTH SPEAKER

Trade Mark: N/A

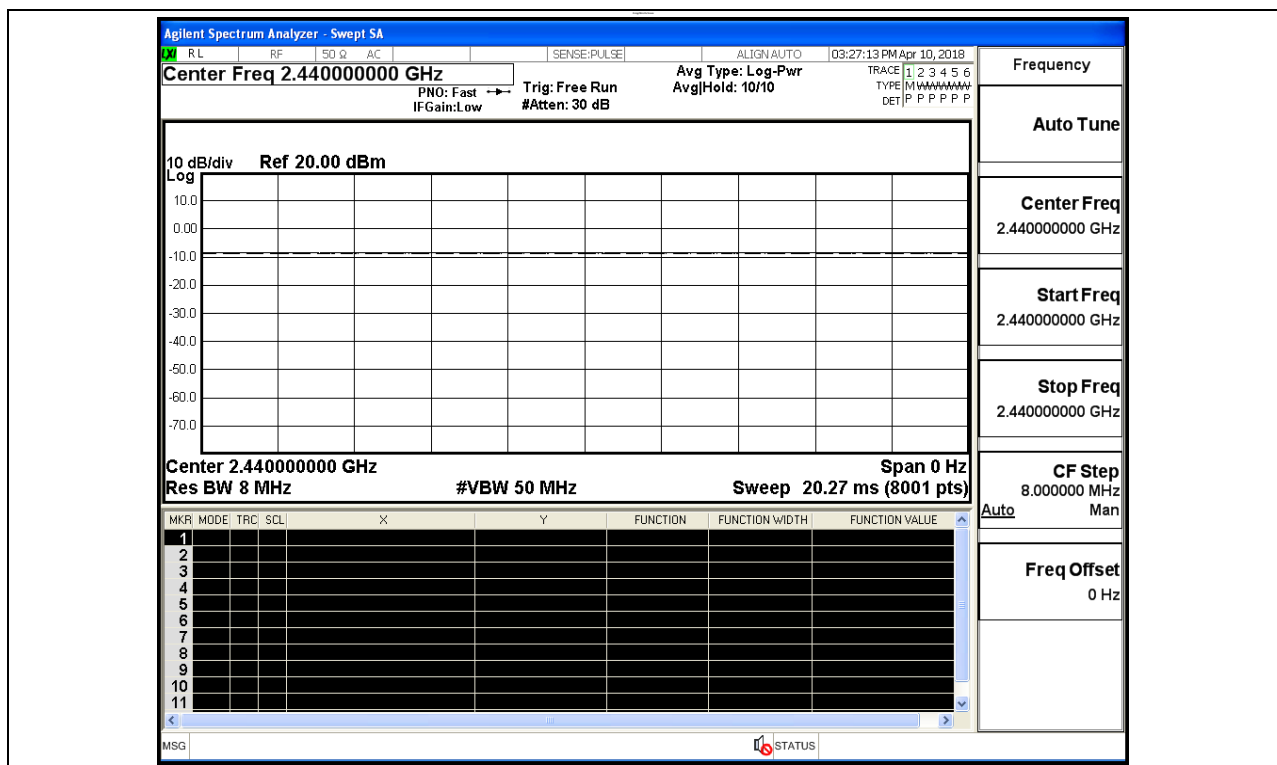
Test Model: M1

Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden Zhuo

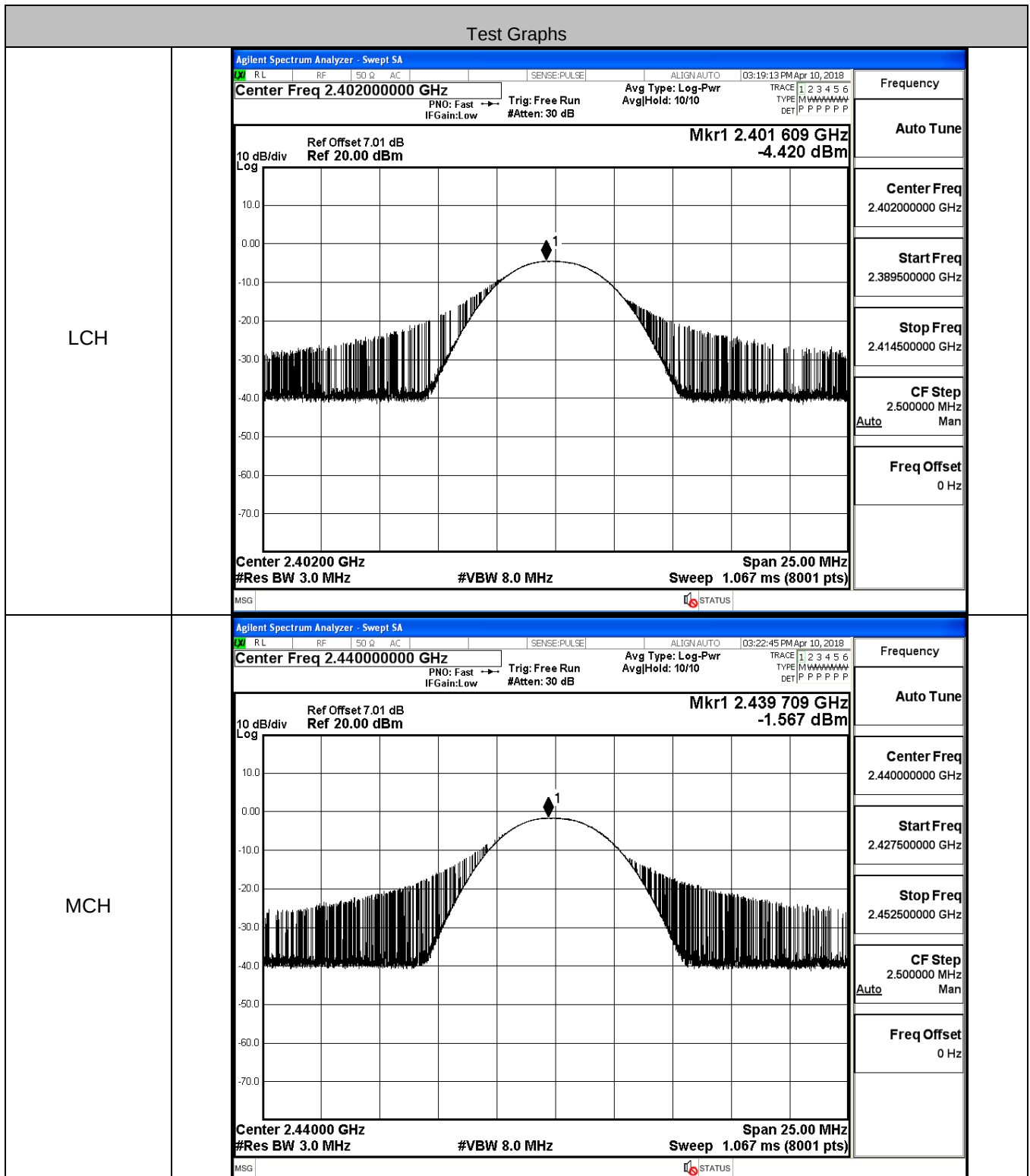
B.1 Duty Cycle

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

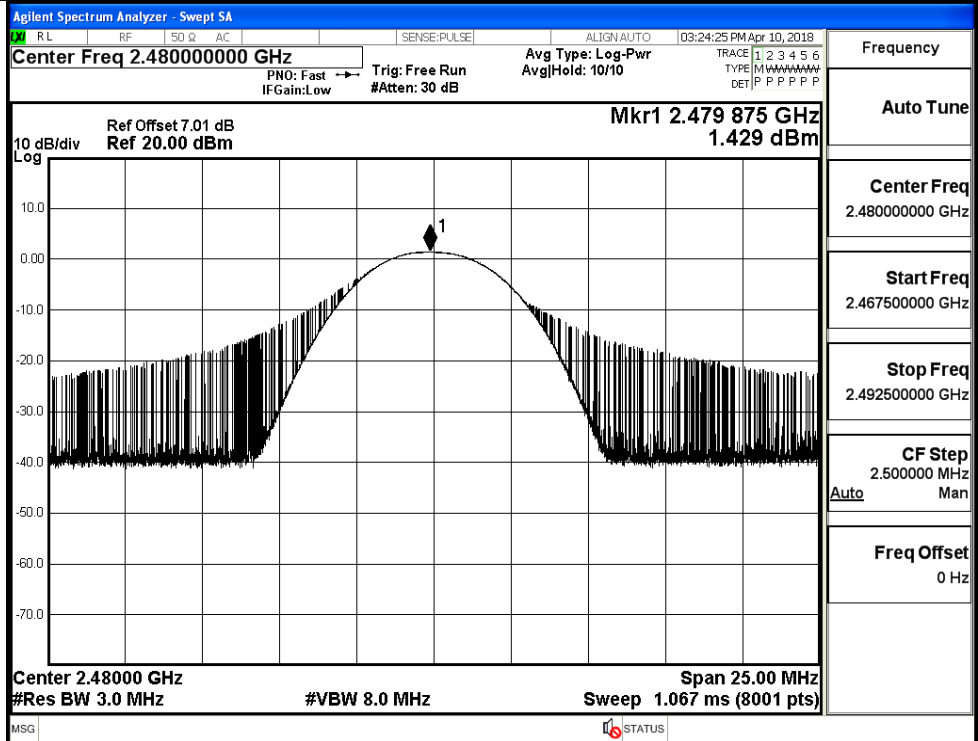


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.42	30	PASS
BT LE	MCH	-1.567	30	PASS
BT LE	HCH	1.429	30	PASS



HCH

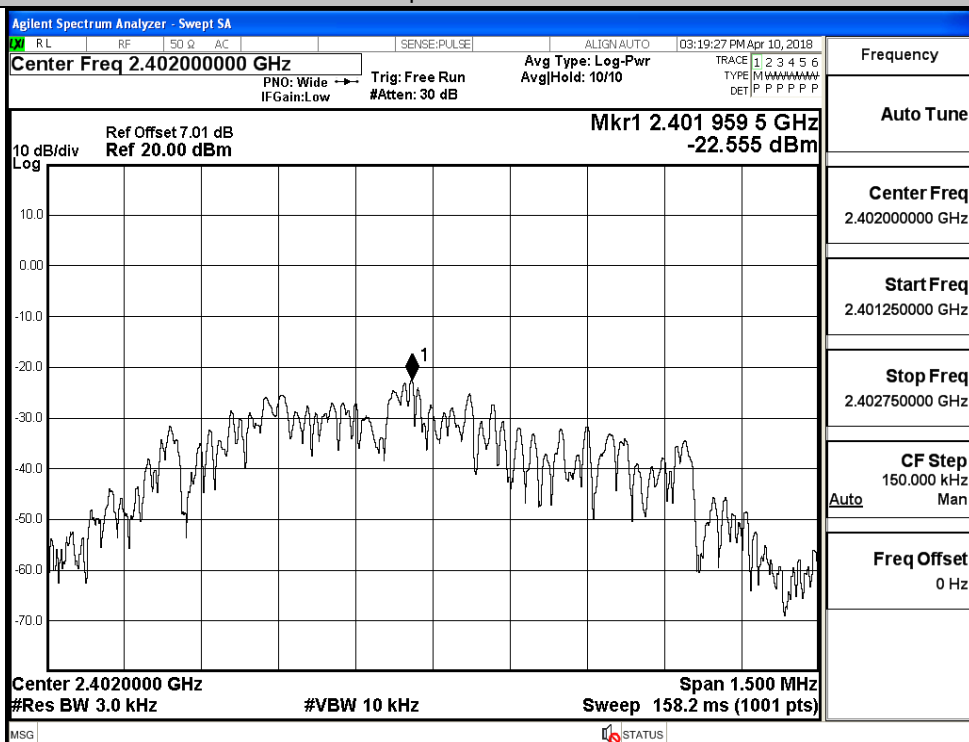


B.3 Maximum Power Spectral Density

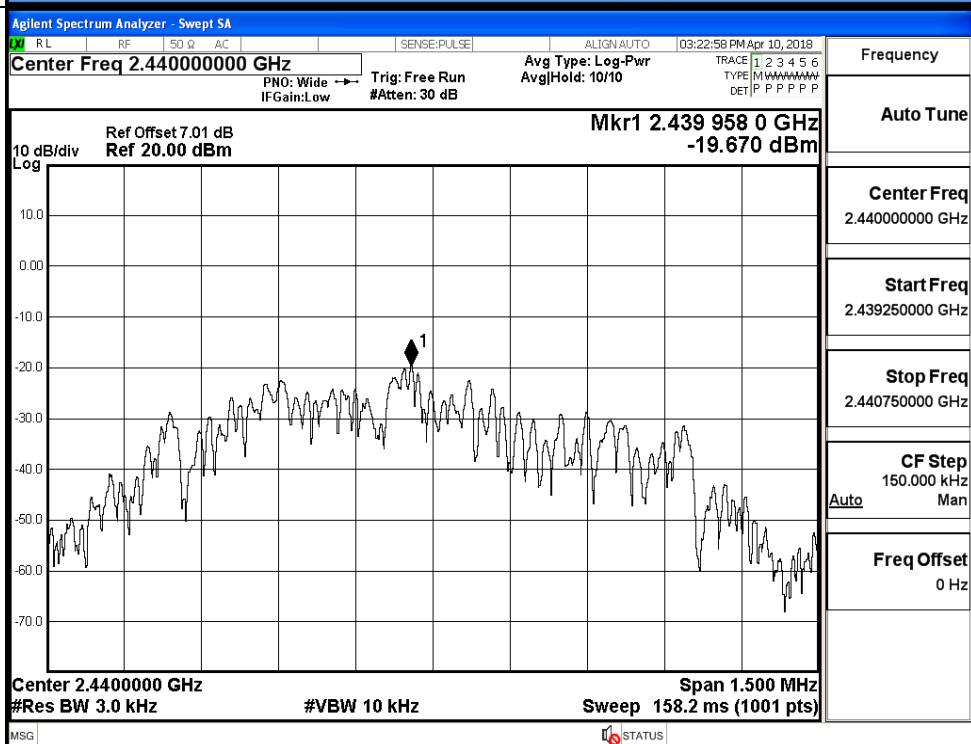
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-22.555	8	PASS
BT LE	MCH	-19.670	8	PASS
BT LE	HCH	-16.585	8	PASS

Test Graphs

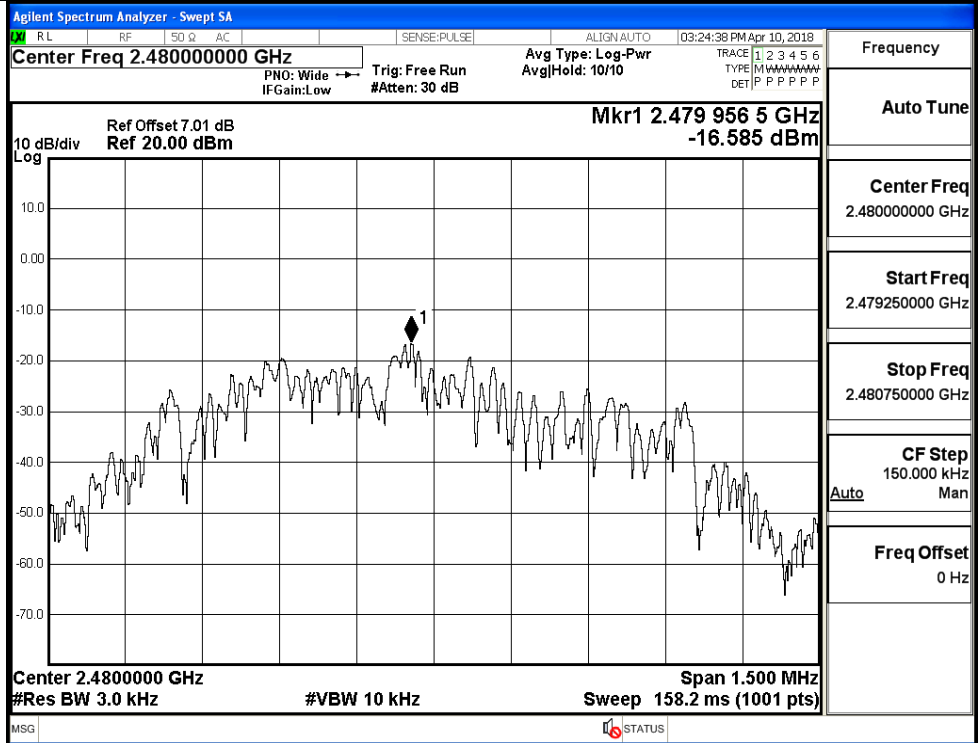
LCH



MCH



HCH

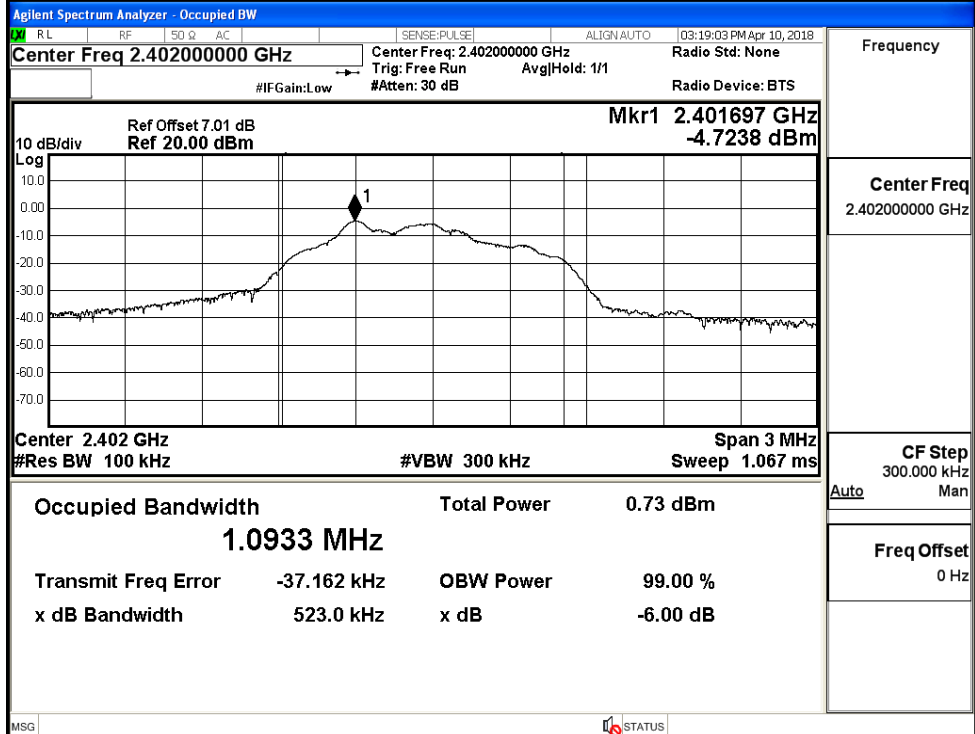


B.4 6dB Bandwidth

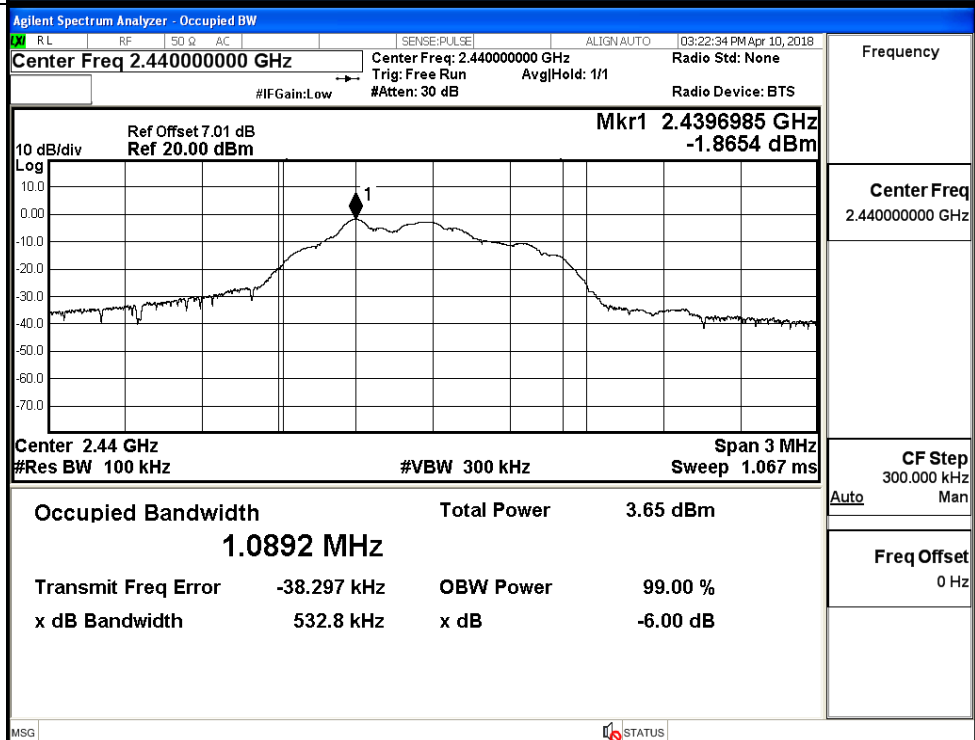
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.5230	≥ 0.5	PASS
BT LE	MCH	0.5328	≥ 0.5	PASS
BT LE	HCH	0.5290	≥ 0.5	PASS

Test Graphs

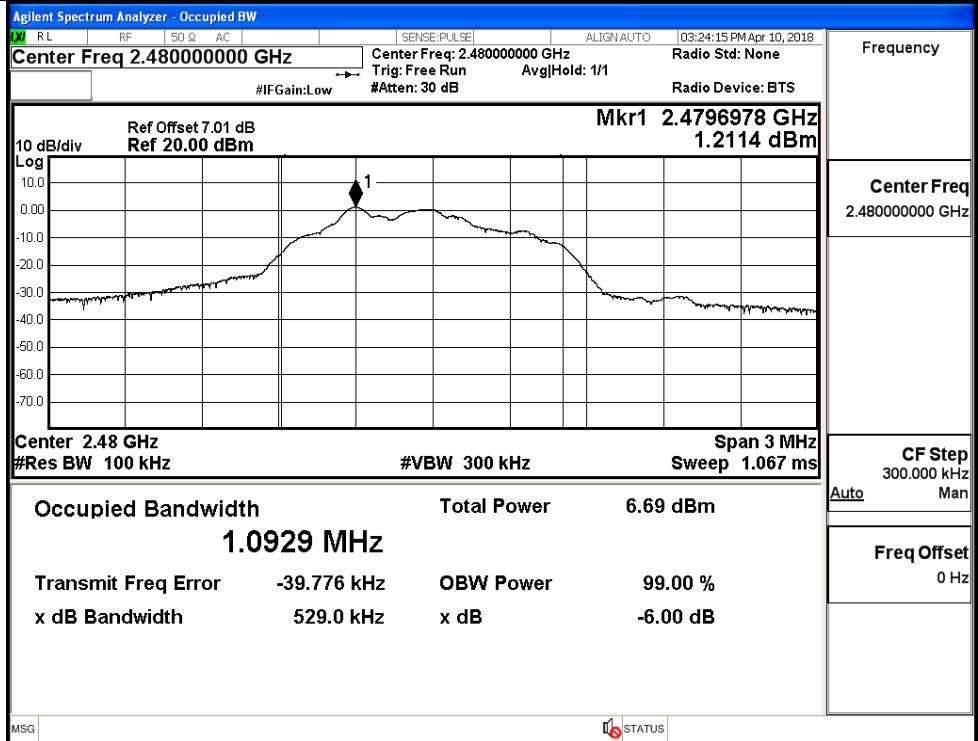
LCH



MCH



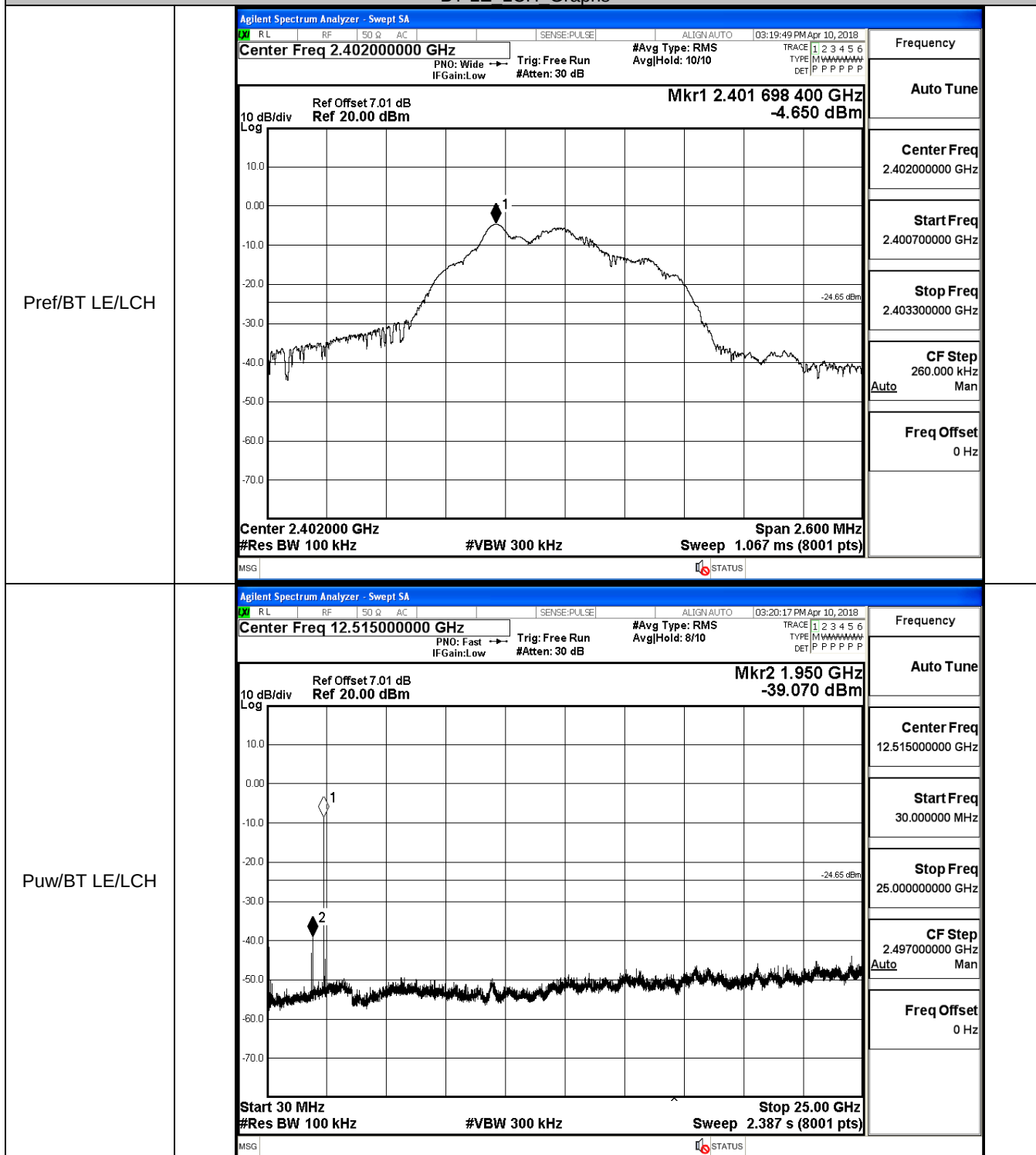
HCH



B.5 RF Conducted Spurious Emissions

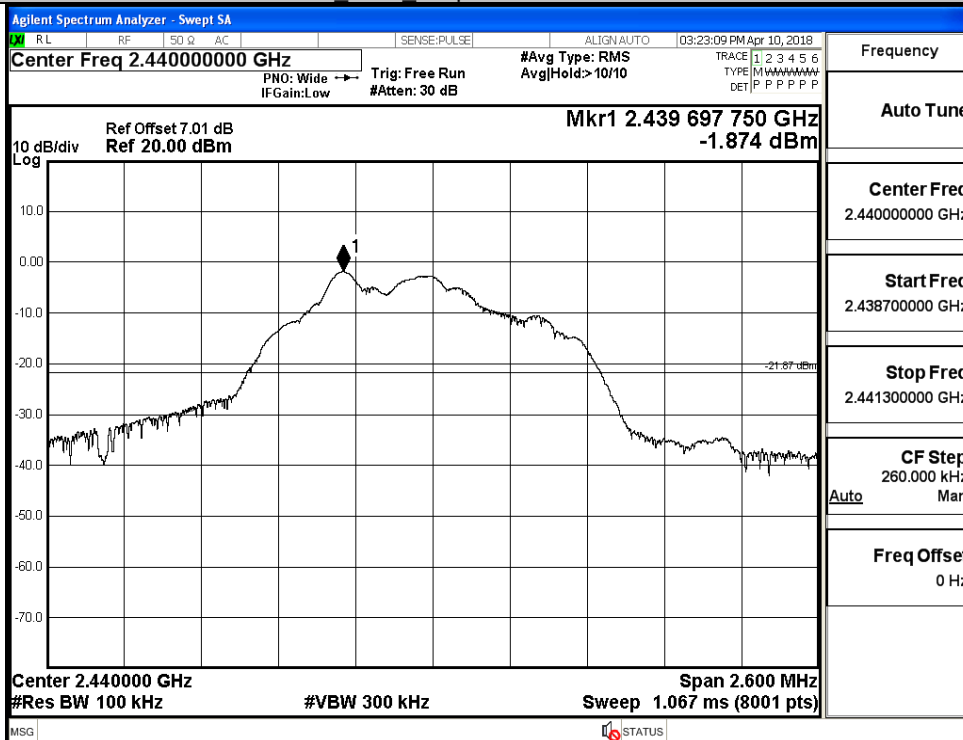
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.65	-39.070	-24.650	PASS
BT LE	MCH	-1.874	-42.107	-21.874	PASS
BT LE	HCH	1.19	-39.468	-18.810	PASS

BT LE LCH Graphs

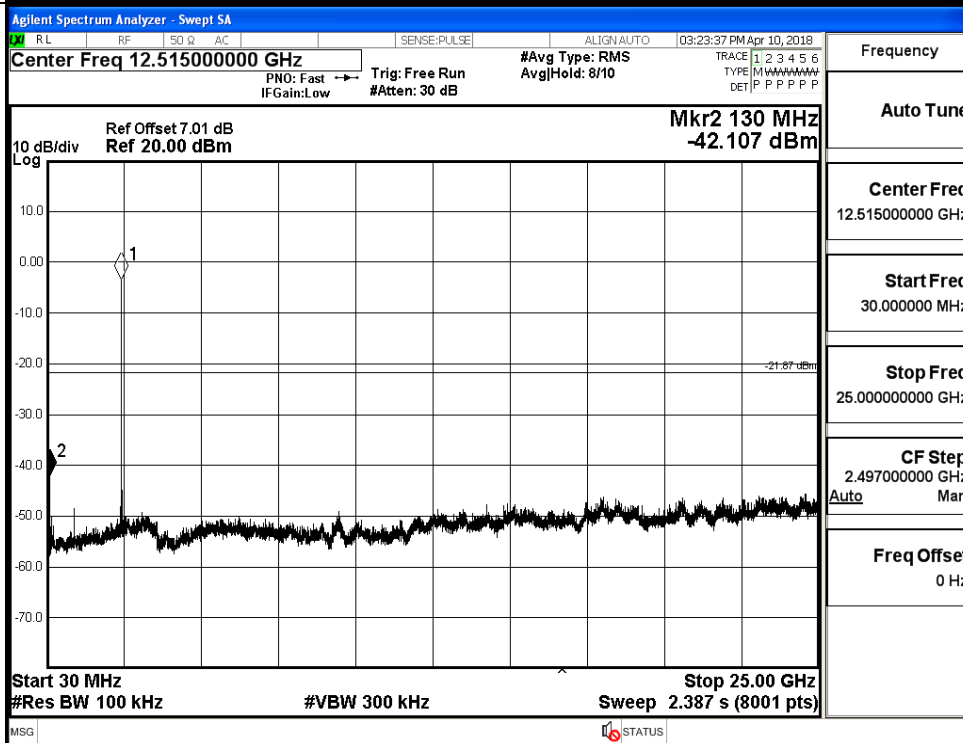


BT LE MCH Graphs

Pref/BT LE/MCH

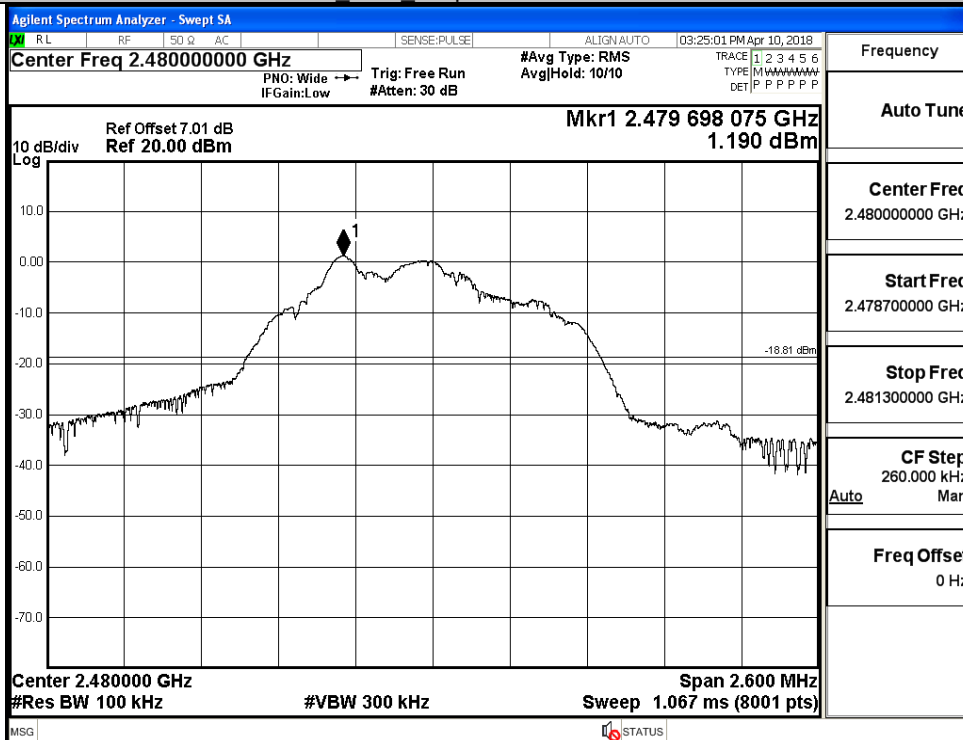


Puw/BT LE/MCH

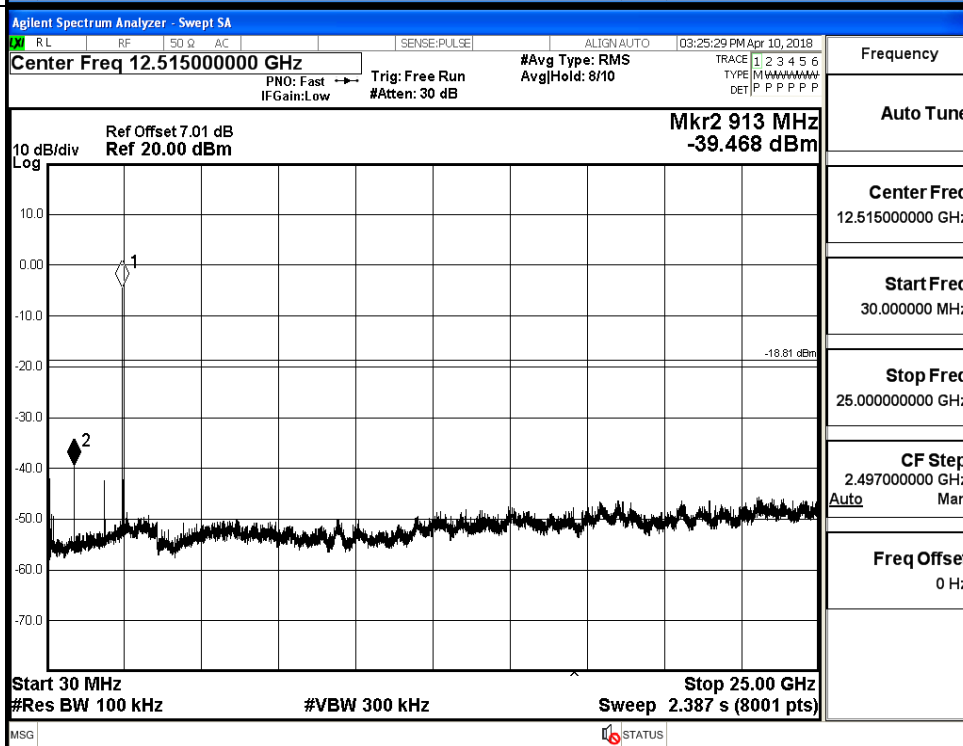


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

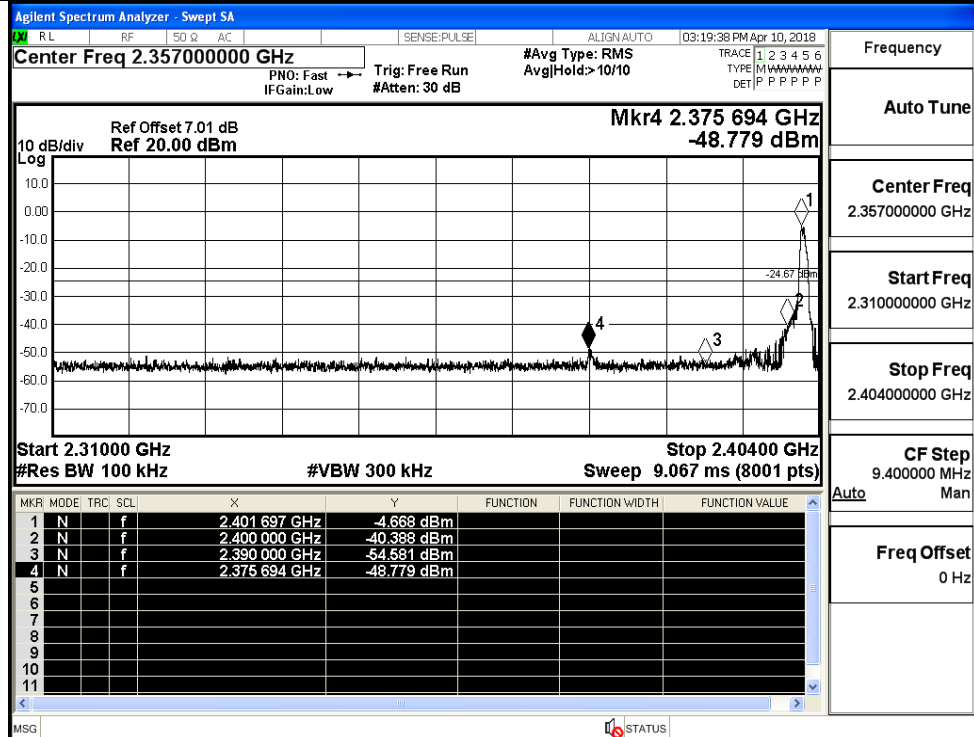


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.668	-48.779	-24.67	PASS
BT LE	HCH	1.115	-41.303	-18.89	PASS

Test Graphs

LCH

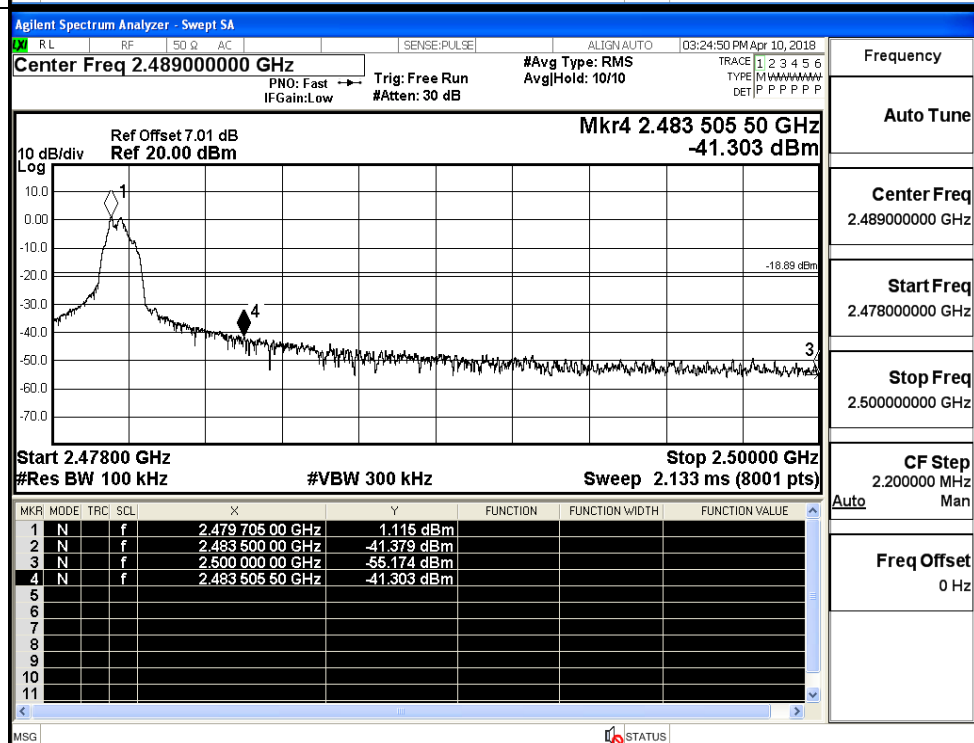


Frequency

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

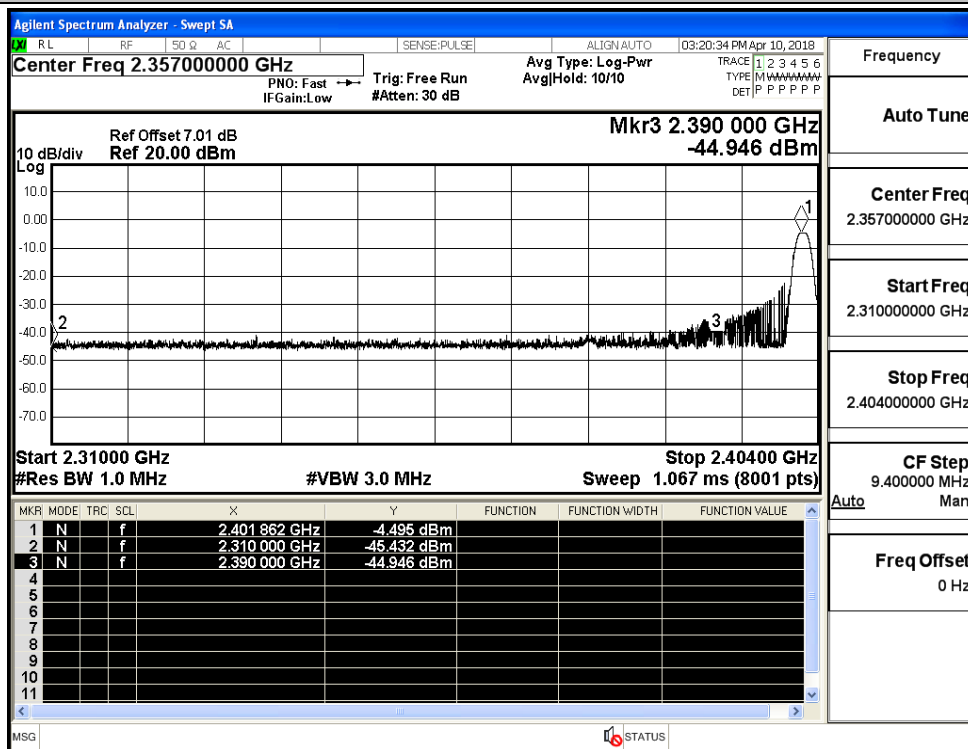
Auto Tune

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

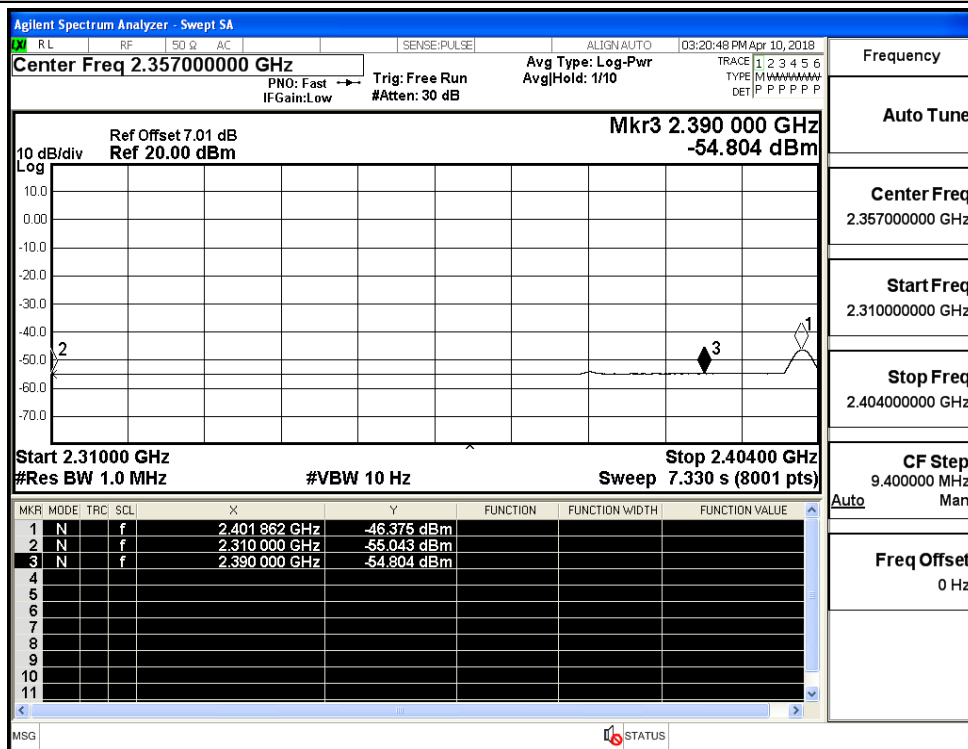
B.7 Restrict-band band-edge measurements

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	-45.43	2.0	0	51.83	PEAK	74	PASS
		Ant1	2310.0	-55.04	2.0	0	42.21	AV	54	PASS
		Ant1	2390.0	-44.95	2.0	0	52.31	PEAK	74	PASS
		Ant1	2390.0	-54.80	2.0	0	42.45	AV	54	PASS
	2480	Ant1	2483.5	-24.96	2.0	0	72.30	PEAK	74	PASS
		Ant1	2483.5	-54.52	2.0	0	42.74	AV	54	PASS
		Ant1	2500.0	-42.68	2.0	0	54.58	PEAK	74	PASS
		Ant1	2500.0	-54.39	2.0	0	42.87	AV	54	PASS

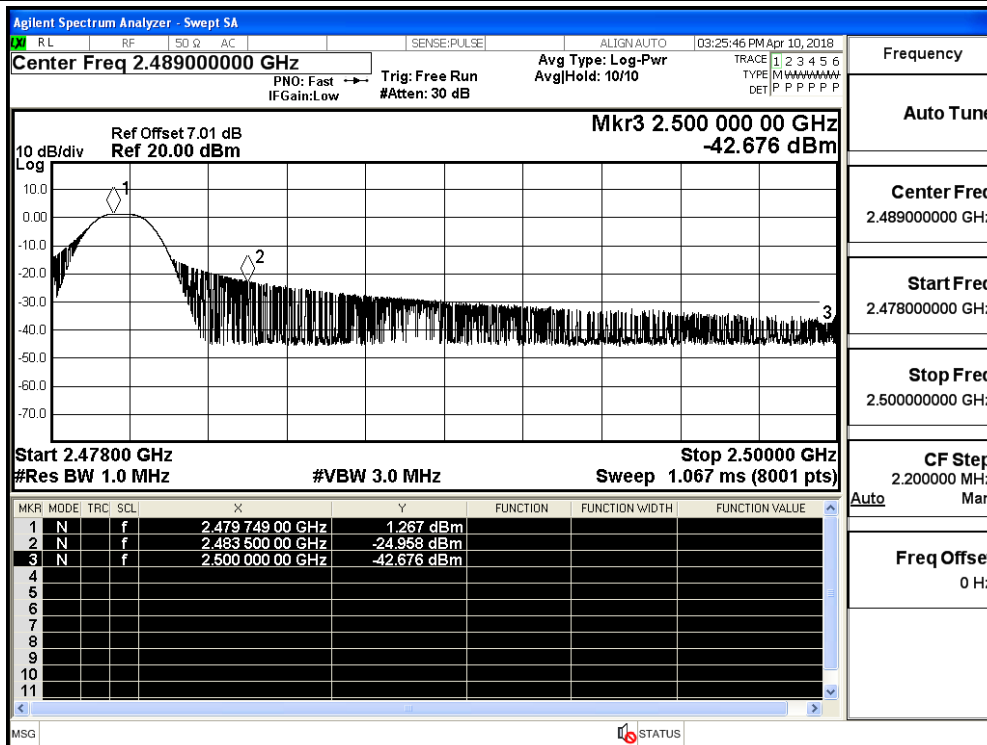
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

