

Appendix B

RF Test Data for BT 4.0(BLE) (Conducted Measurement)

Product Name: Neckband wireless earphone

Trade Mark: N/A

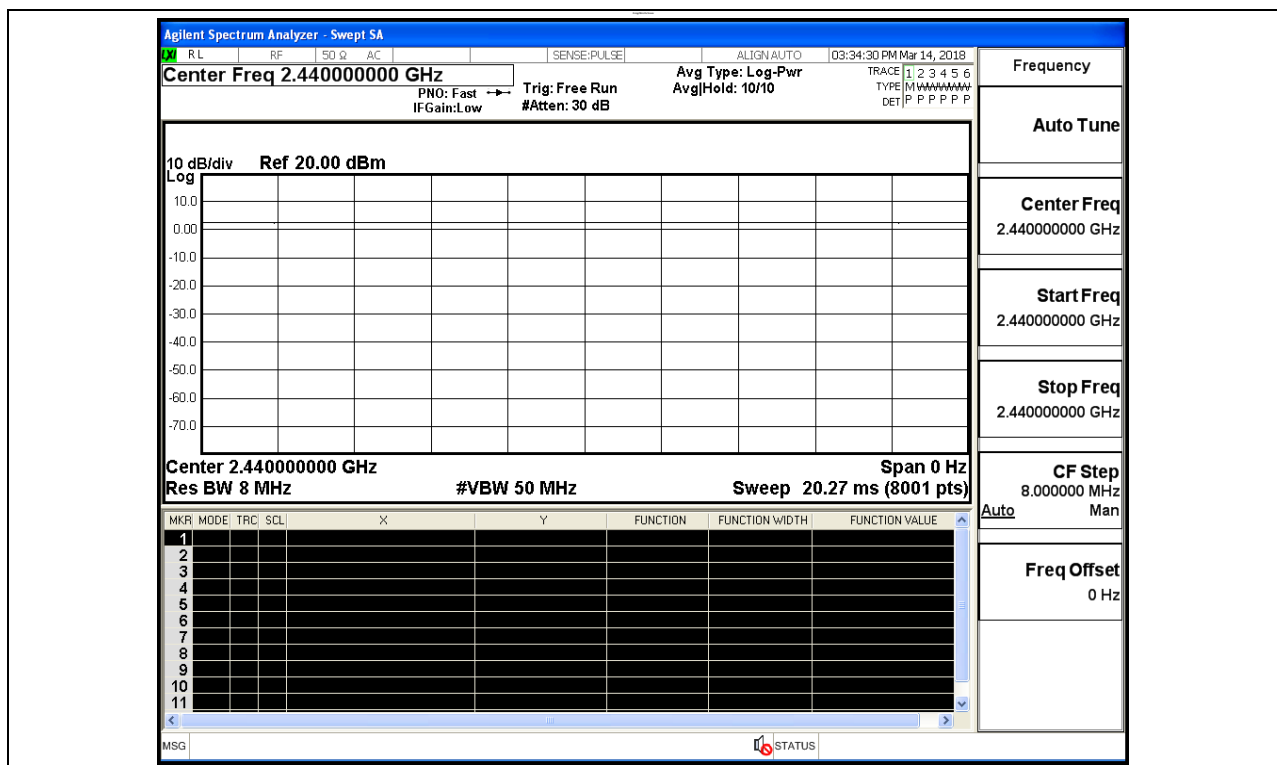
Test Model: NE03

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jayden.zhao
Supervised by:	Tom.Liu

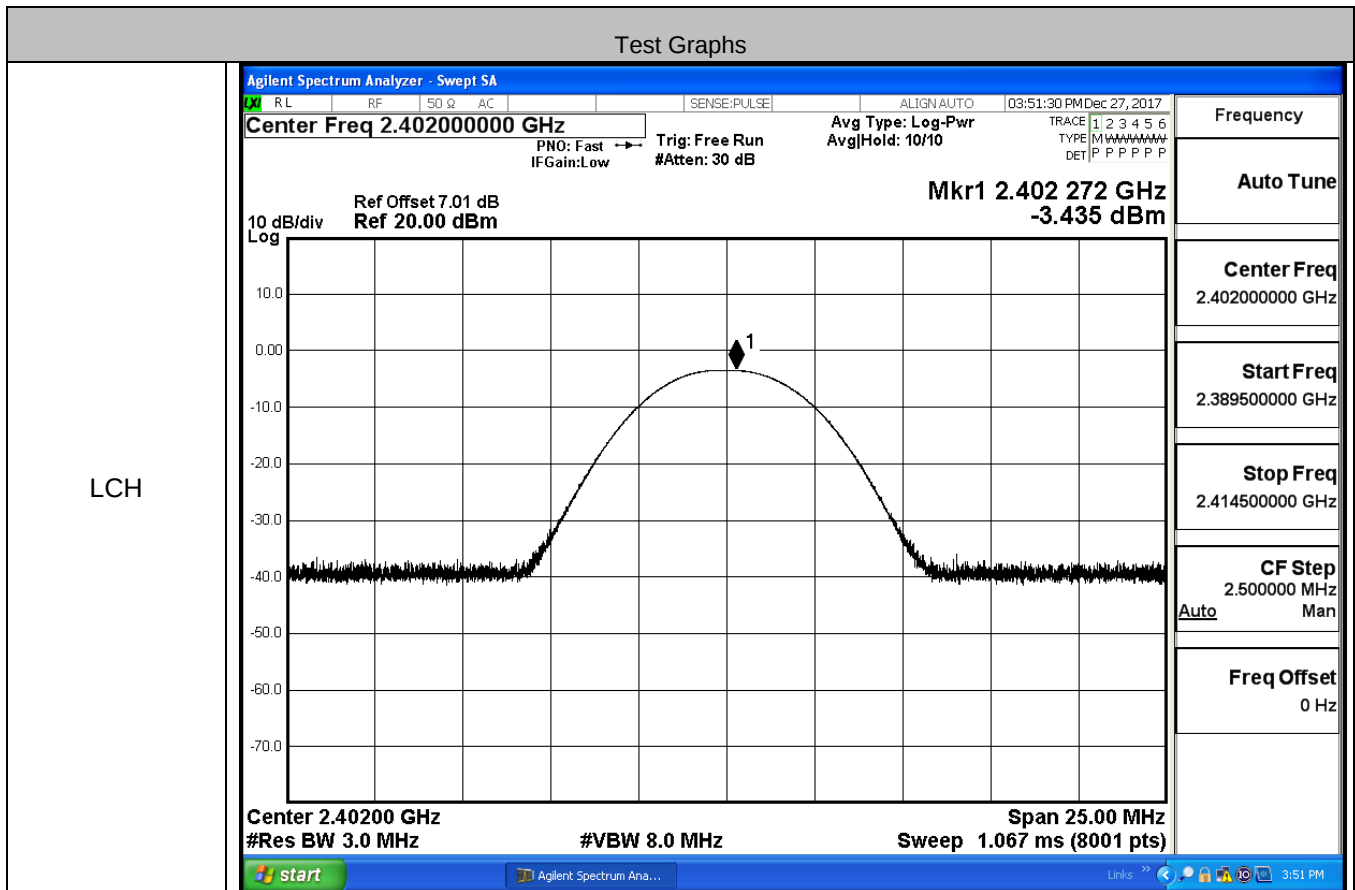
B.1 Duty Cycle

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

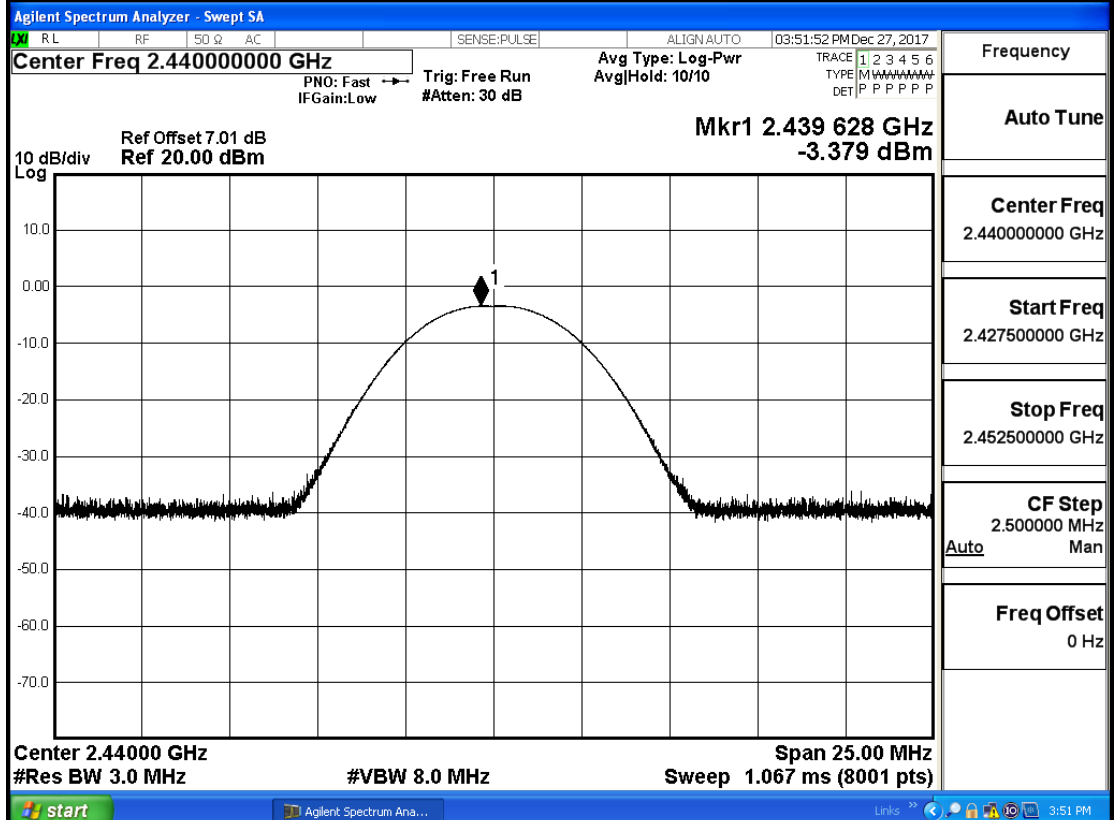


B.2 Maximum Conducted Peak Output Power

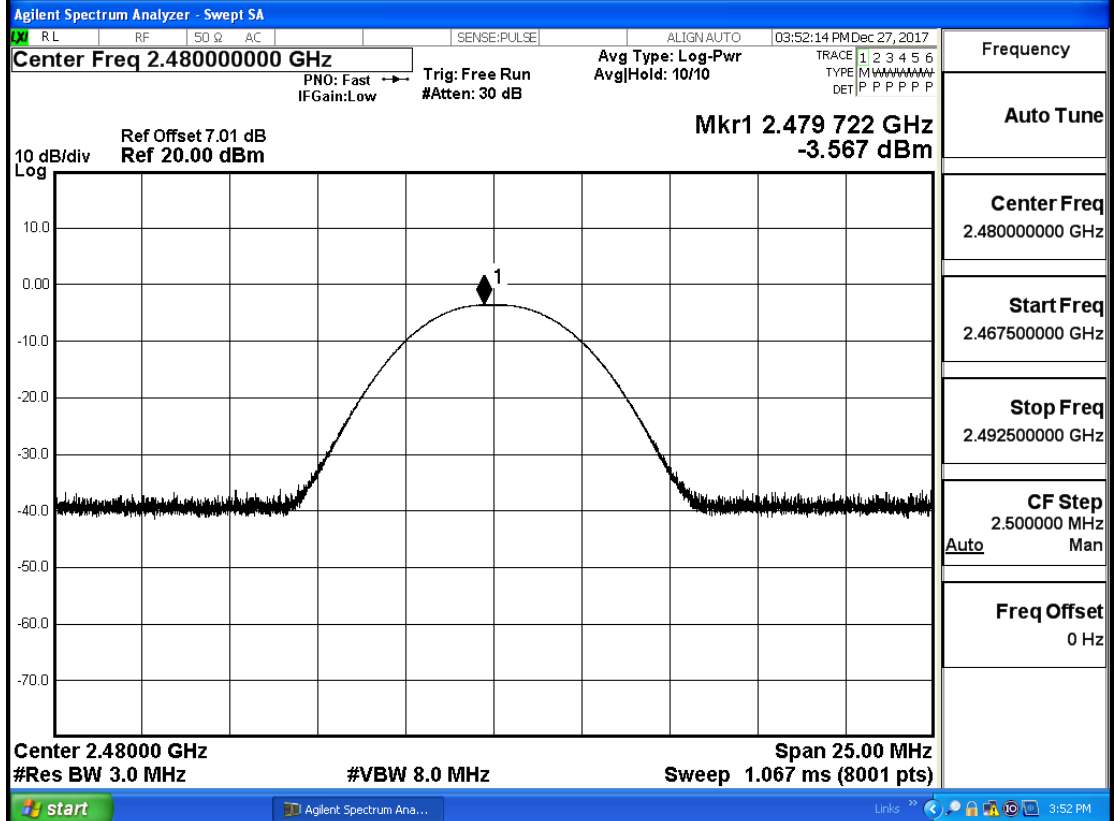
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.435	30	PASS
BT LE	MCH	-3.379	30	PASS
BT LE	HCH	-3.567	30	PASS



MCH



HCH

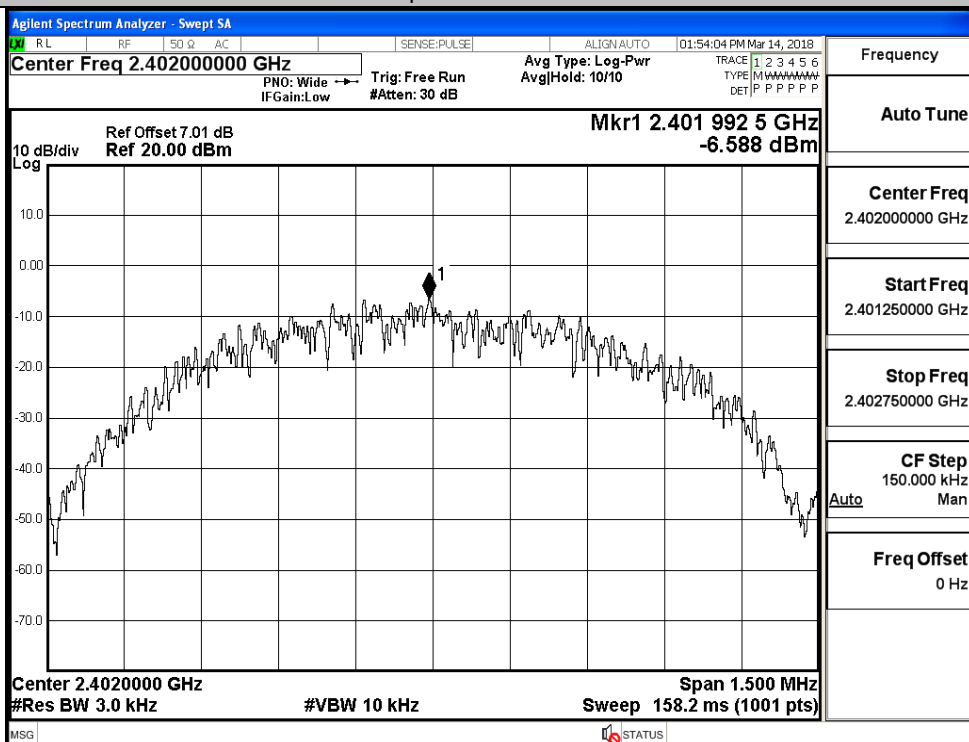


B.3 Maximum Power Spectral Density

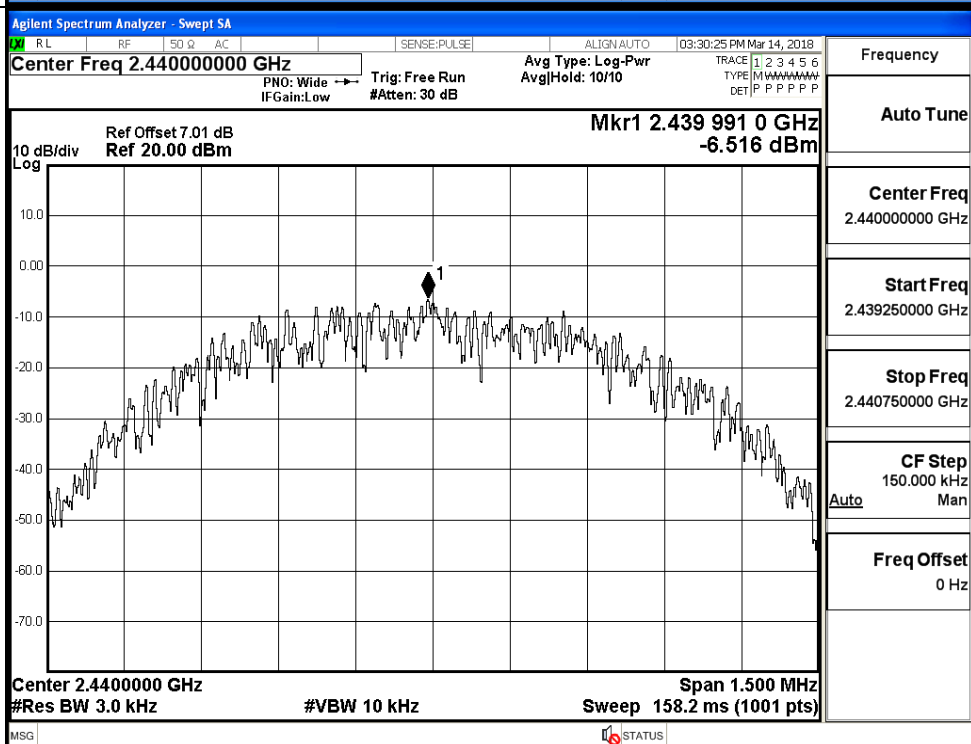
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-6.588	8	PASS
BT LE	MCH	-6.516	8	PASS
BT LE	HCH	-6.487	8	PASS

Test Graphs

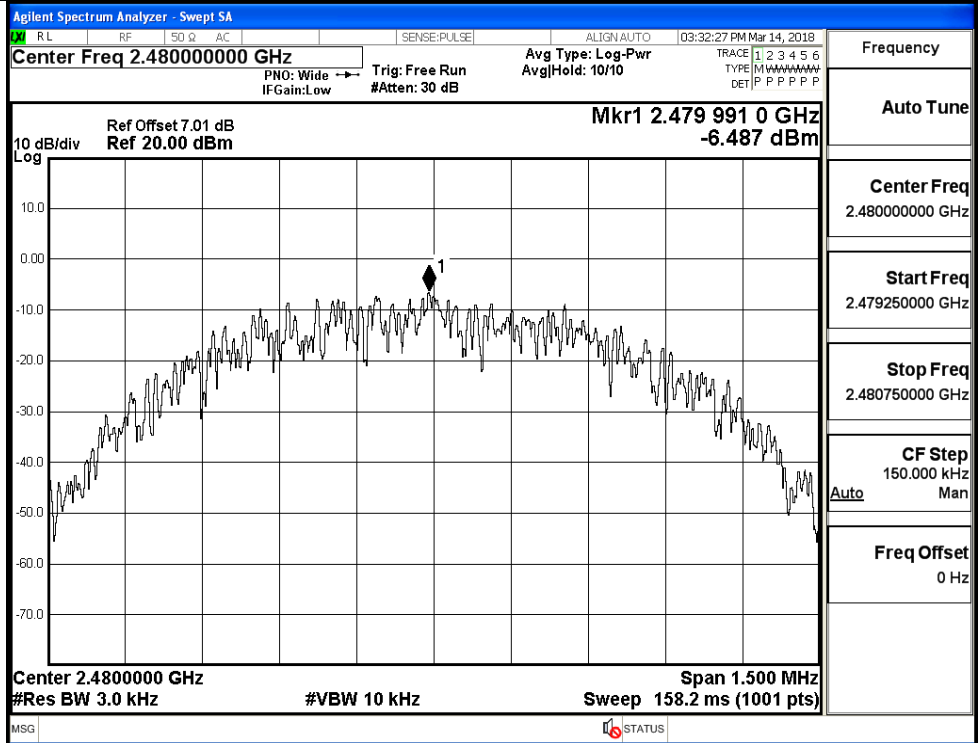
LCH



MCH



HCH

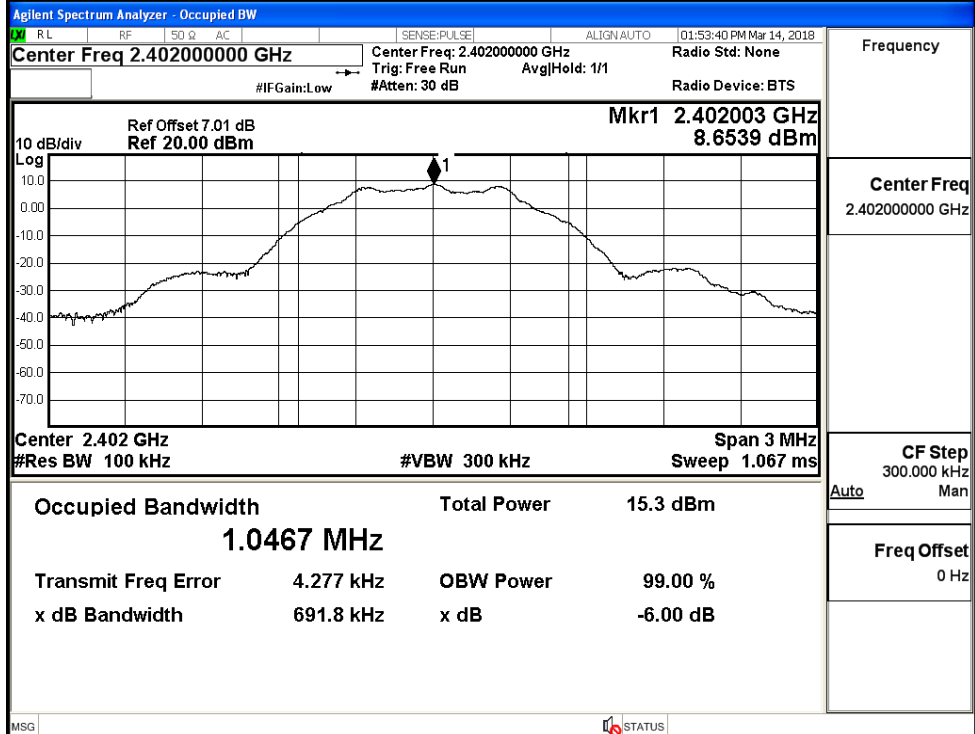


B.4 6dB Bandwidth

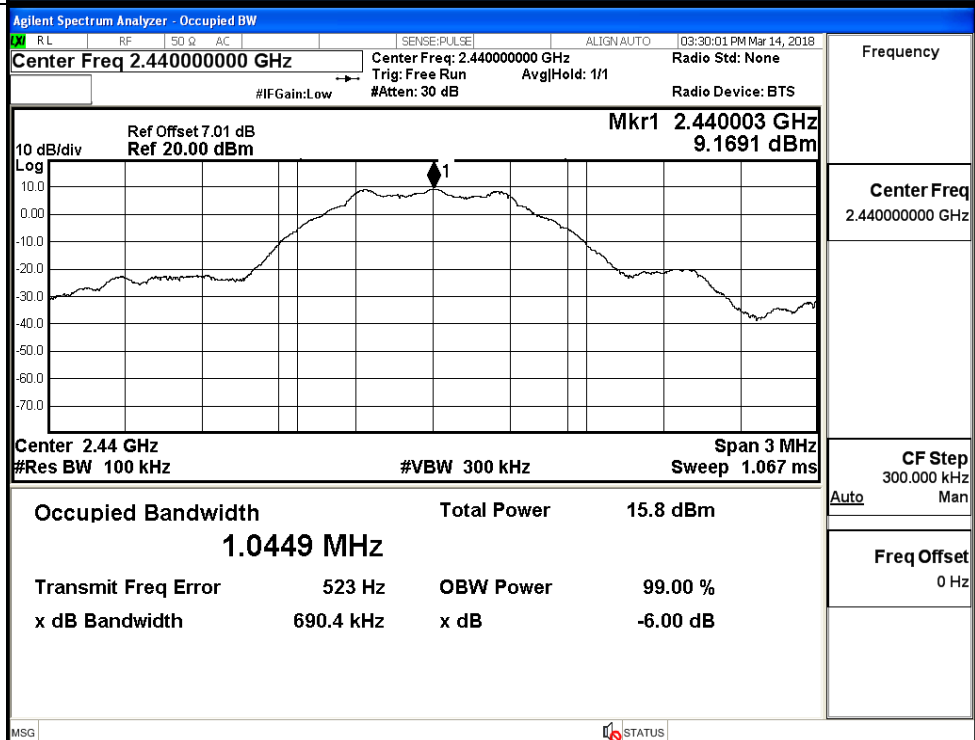
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6918	≥ 0.5	PASS
BT LE	MCH	0.6904	≥ 0.5	PASS
BT LE	HCH	0.6838	≥ 0.5	PASS

Test Graphs

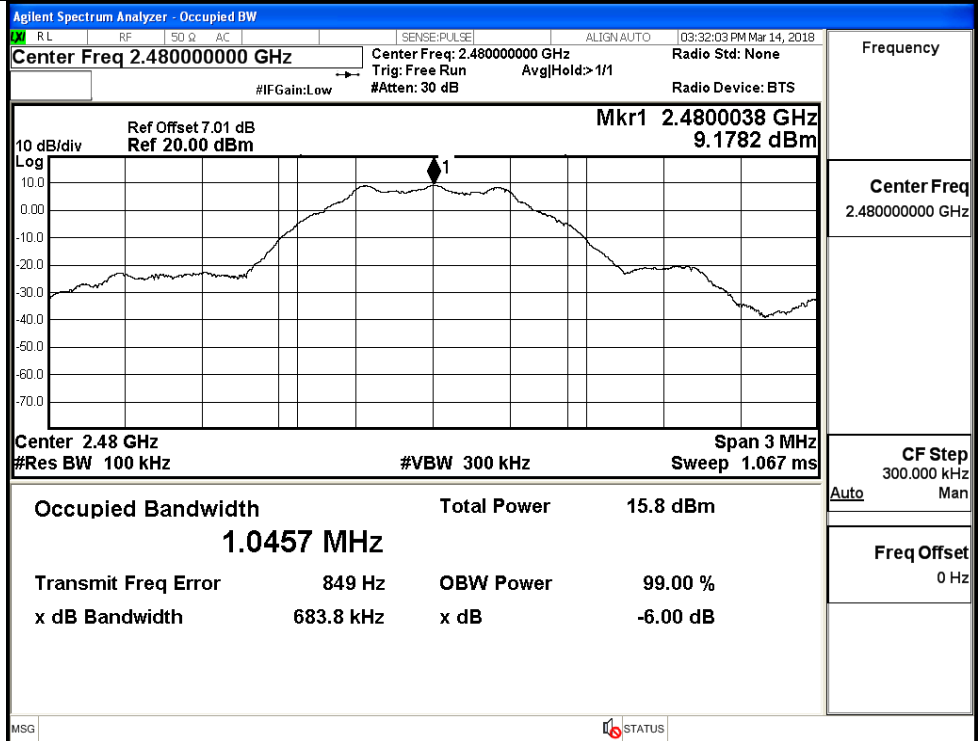
LCH



MCH



HCH

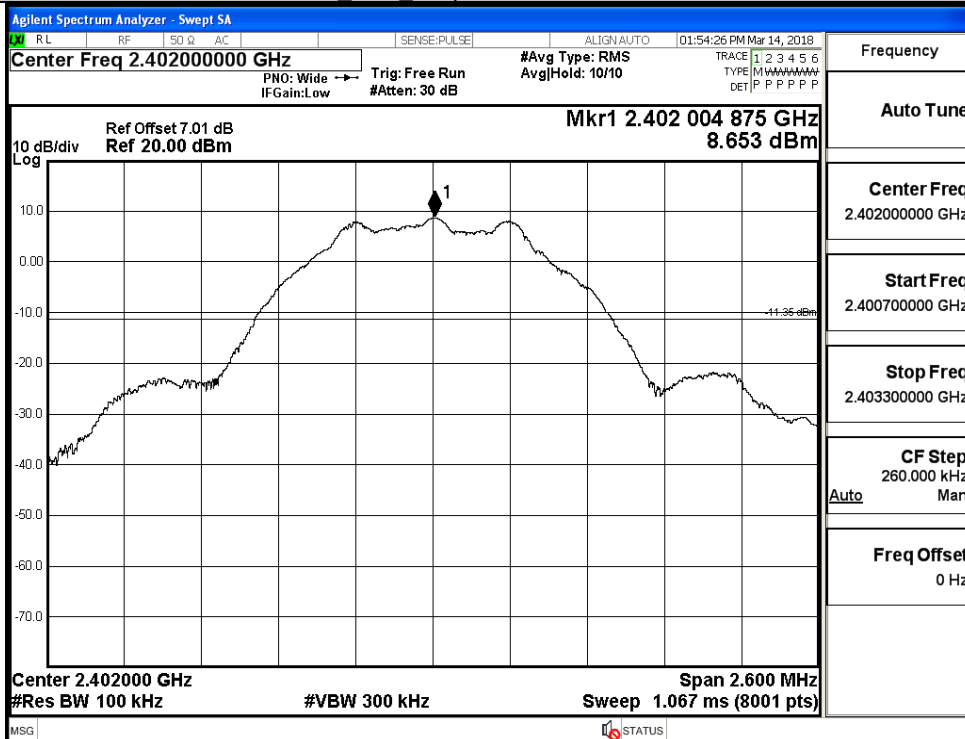


B.5 RF Conducted Spurious Emissions

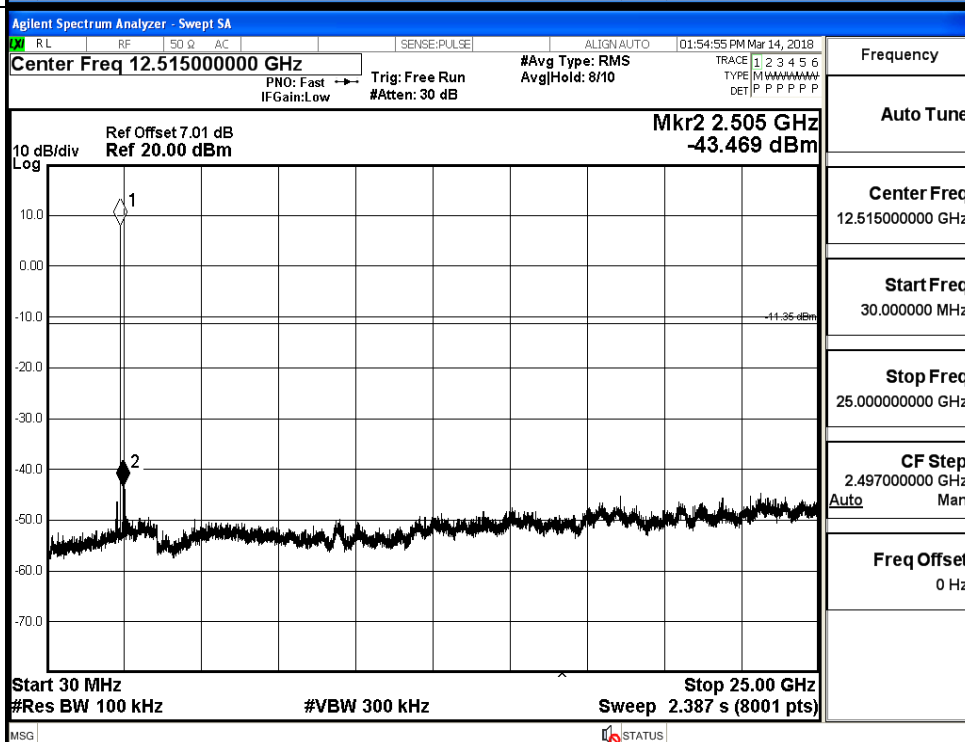
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	8.653	-43.469	-11.347	PASS
BT LE	MCH	9.146	-45.451	-10.854	PASS
BT LE	HCH	9.163	-42.074	-10.837	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

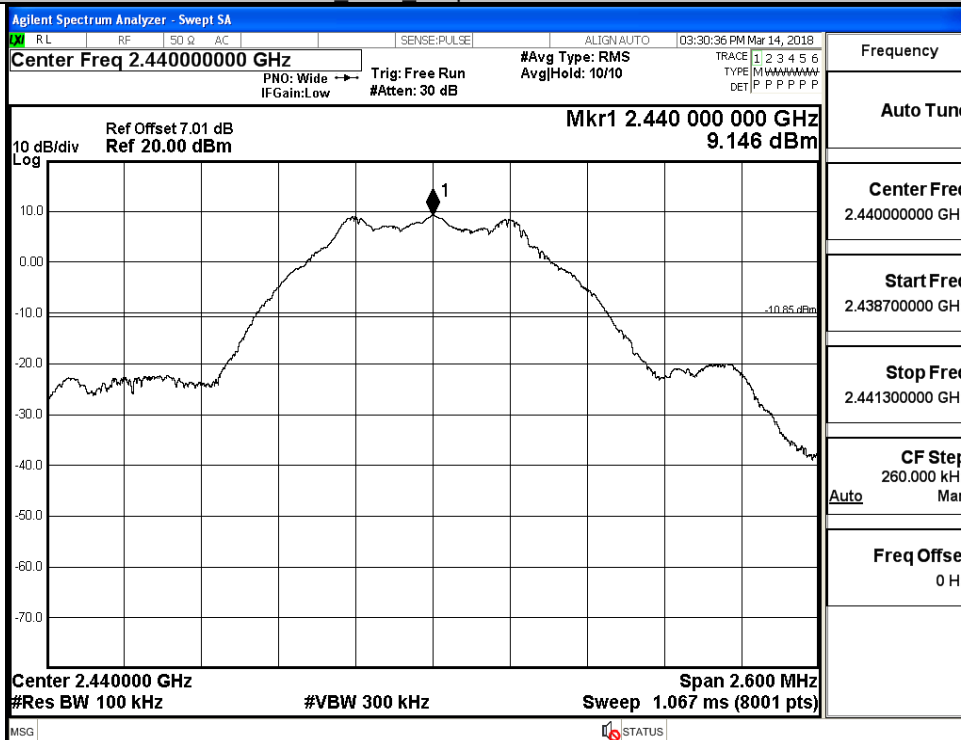


Puw/BT LE/LCH

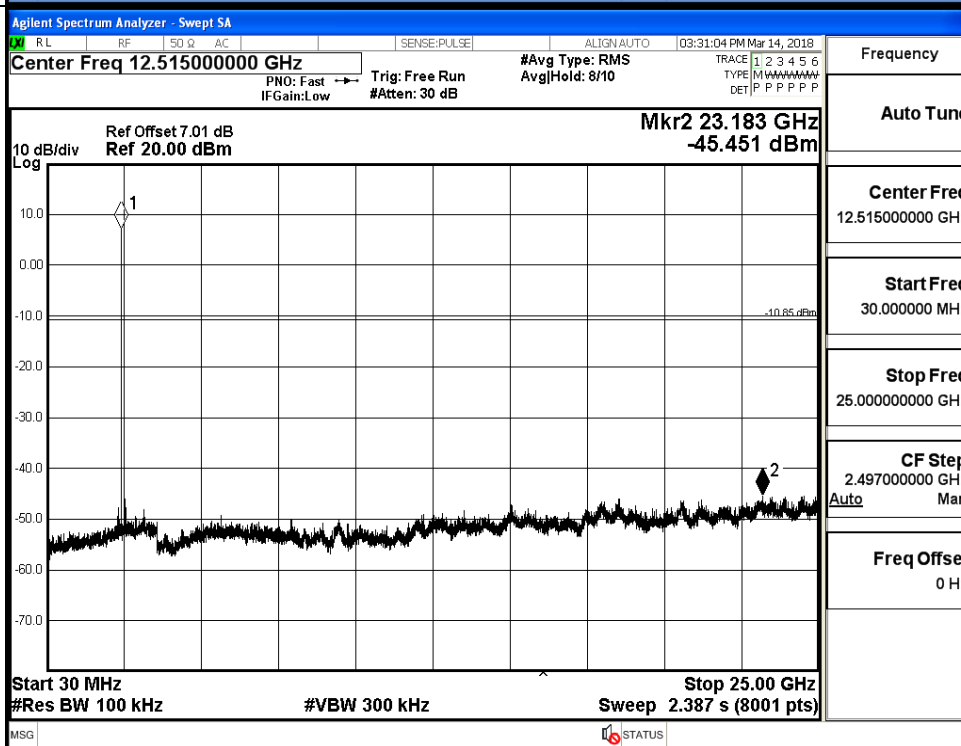


BT LE MCH Graphs

Pref/BT LE/MCH

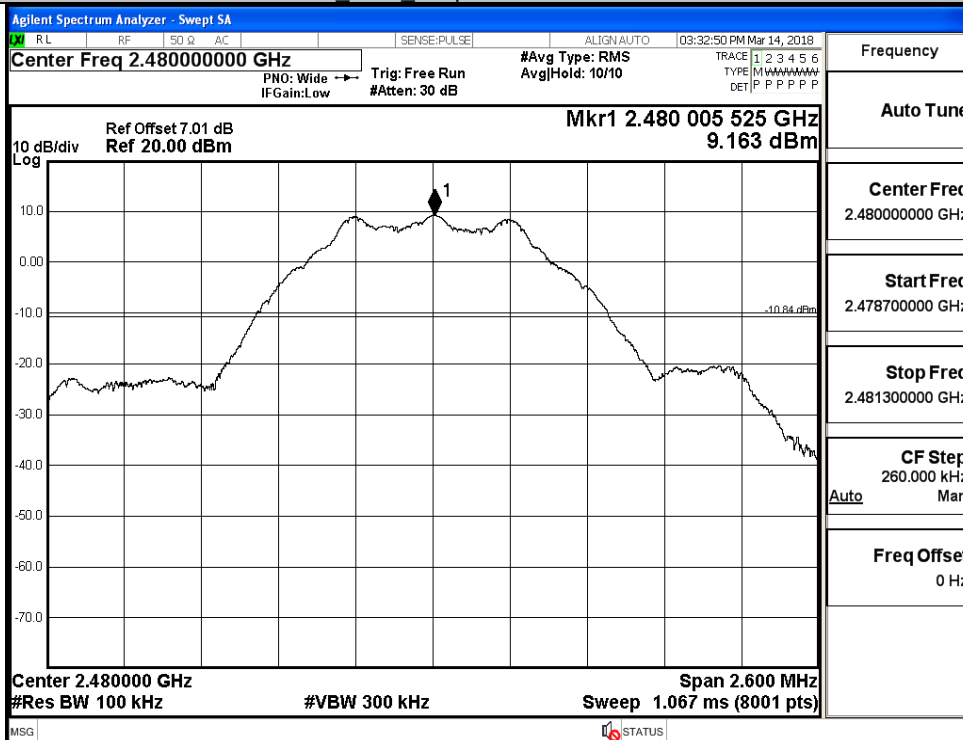


Puw/BT LE/MCH

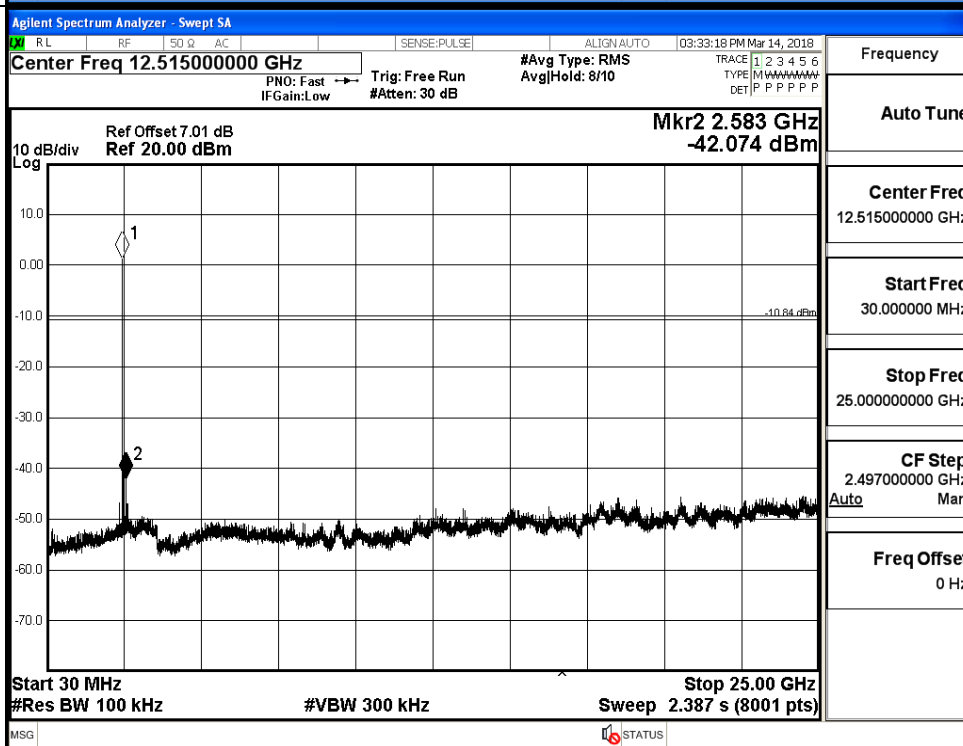


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

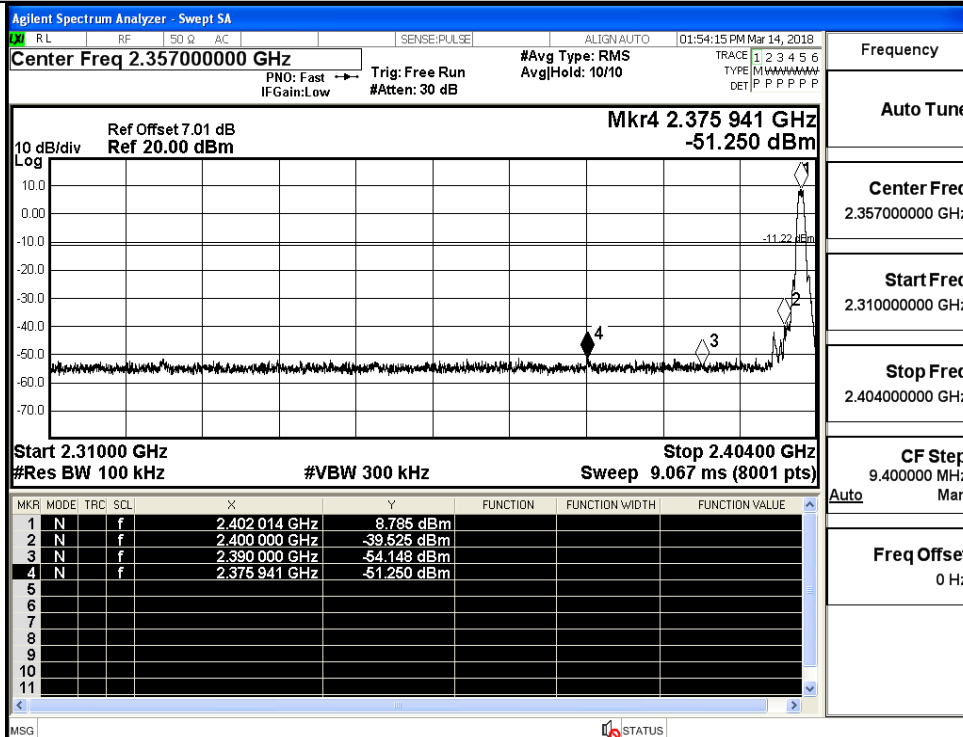


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	8.785	-51.250	-11.22	PASS
BT LE	HCH	9.308	-44.943	-10.69	PASS

Test Graphs

LCH

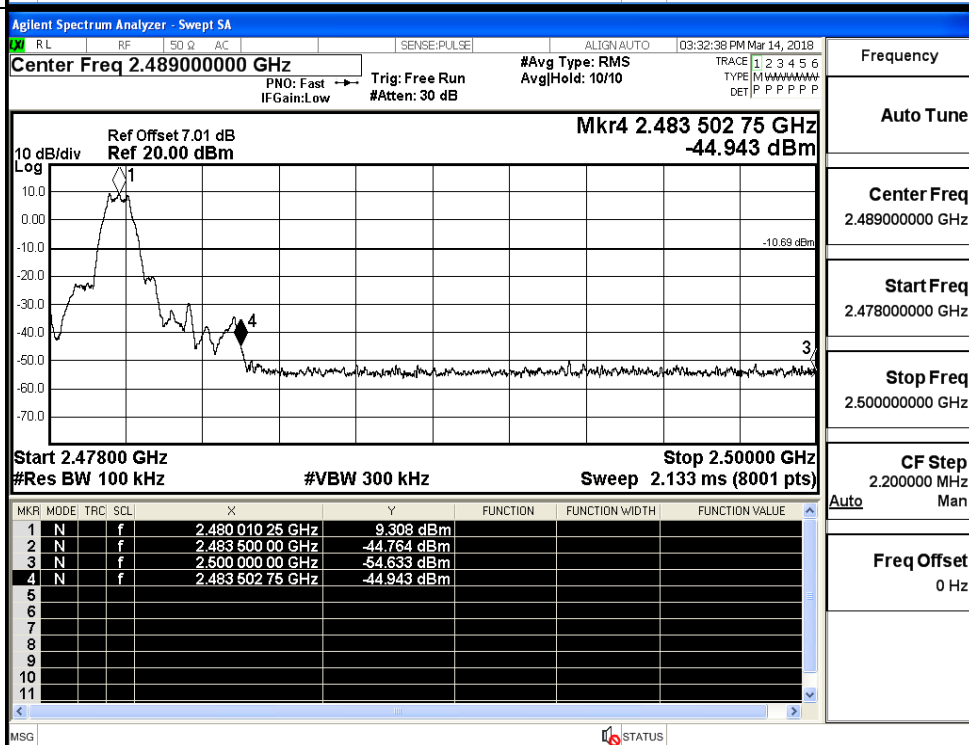


Frequency

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

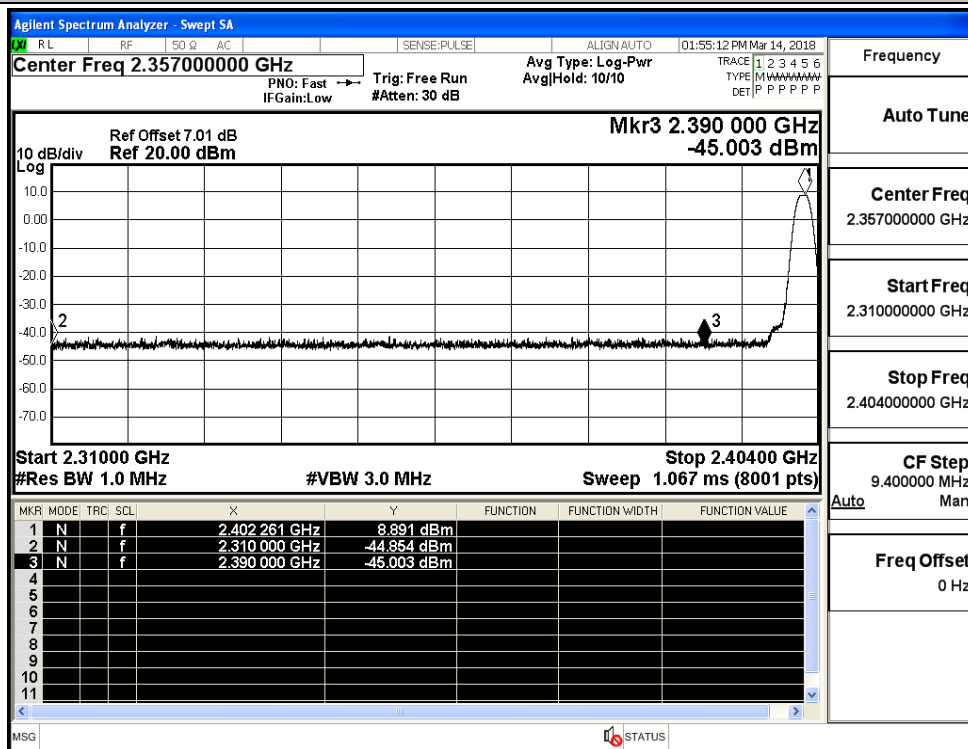
Auto Tune

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

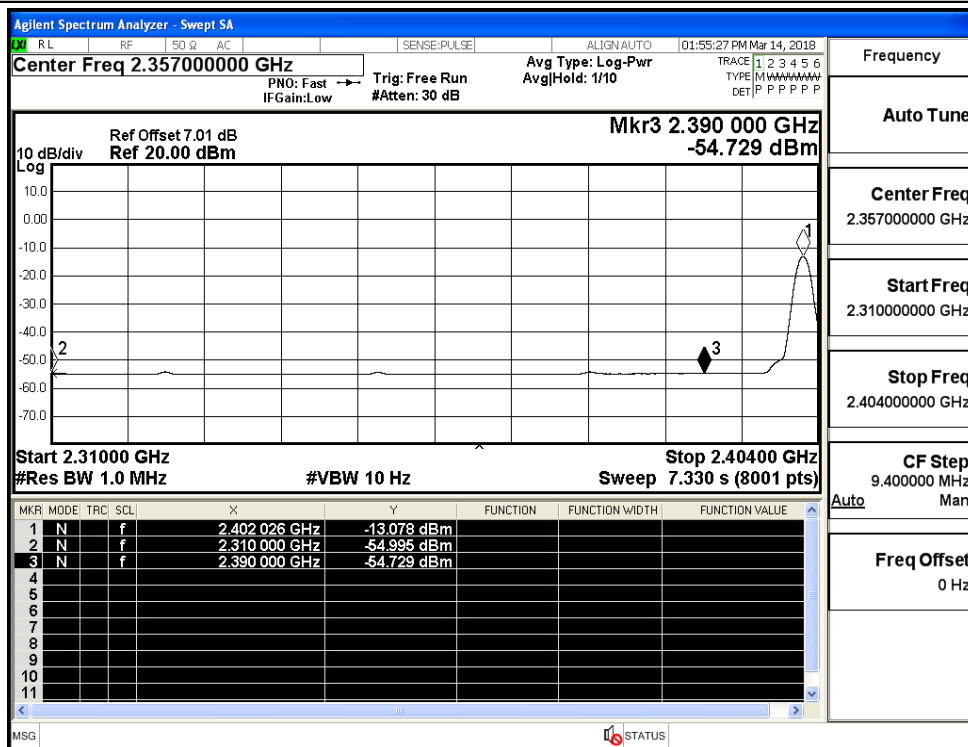
B.7 Restrict-band band-edge measurements

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	-44.85	2.0	0	52.40	PEAK	74	PASS
		Ant1	2310.0	-55.00	2.0	0	42.26	AV	54	PASS
		Ant1	2390.0	-45.00	2.0	0	52.25	PEAK	74	PASS
		Ant1	2390.0	-54.73	2.0	0	42.53	AV	54	PASS
	2480	Ant1	2483.5	-32.33	2.0	0	64.93	PEAK	74	PASS
		Ant1	2483.5	-50.75	2.0	0	46.51	AV	54	PASS
		Ant1	2500.0	-44.49	2.0	0	52.77	PEAK	74	PASS
		Ant1	2500.0	-54.51	2.0	0	42.75	AV	54	PASS

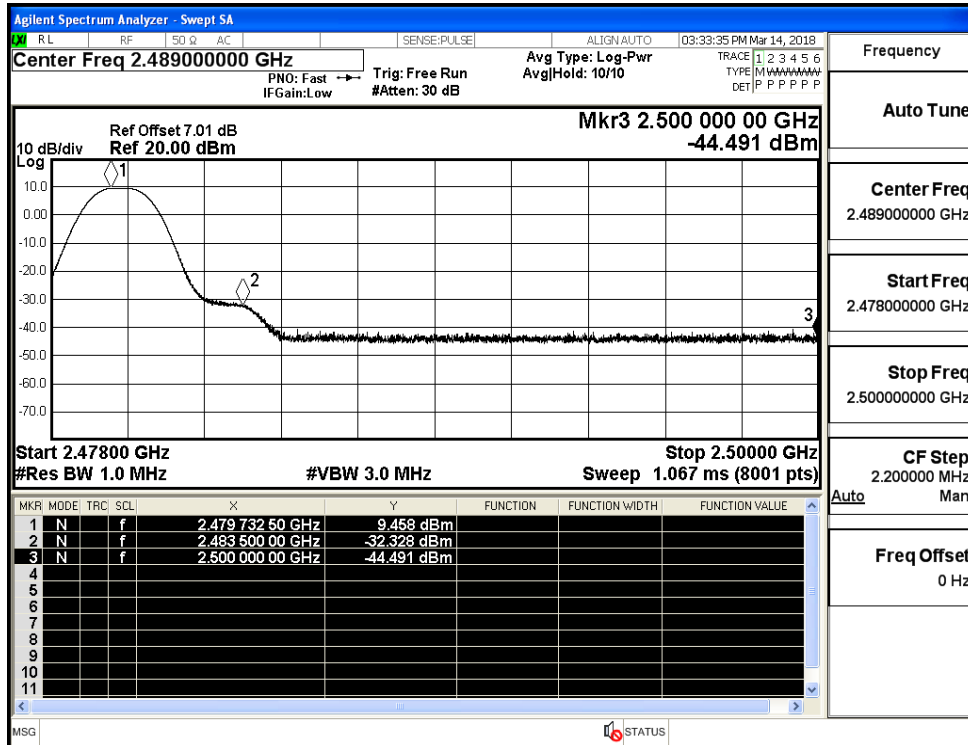
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

