

Appendix B

RF Test Data for BT V4.1 (BT LE) (Conducted Measurement)

Product Name: WIRELESS EARBUDS

Trade Mark: iWorld

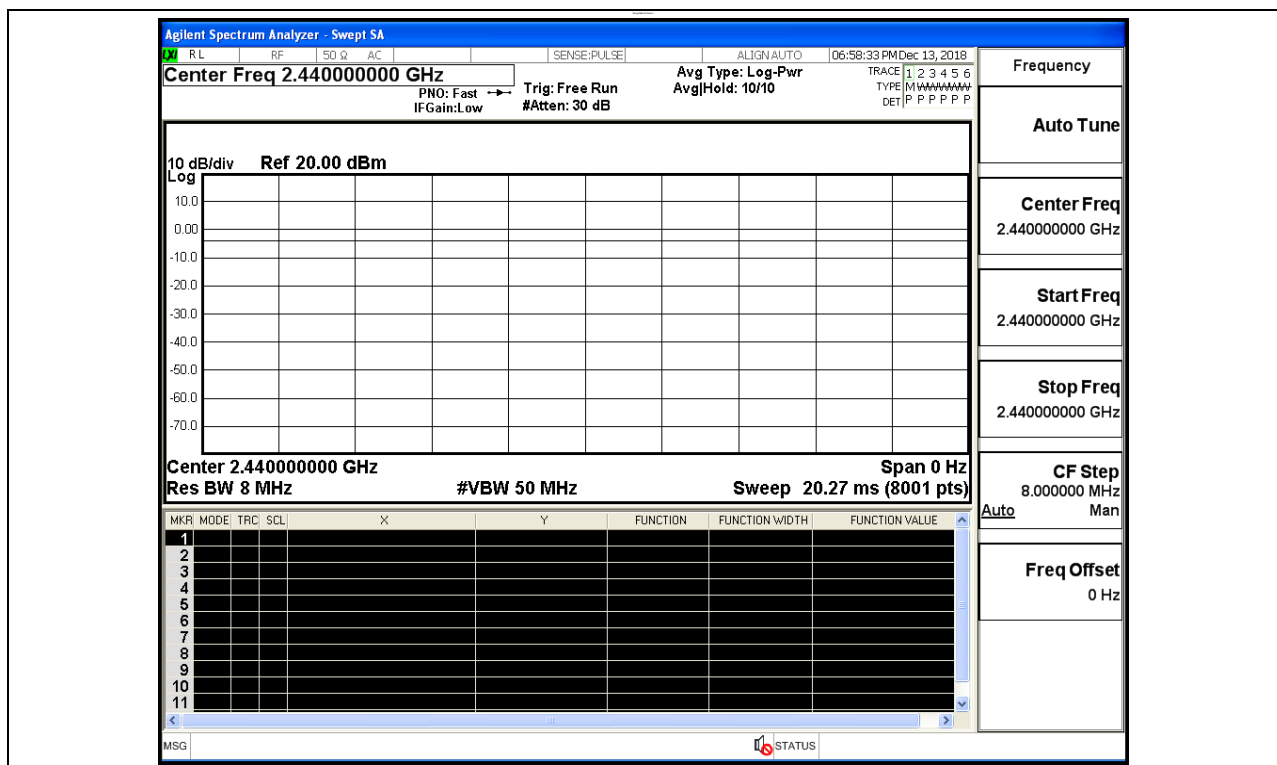
Test Model: FVBT1001-GRY

Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Jayden.Zhuo

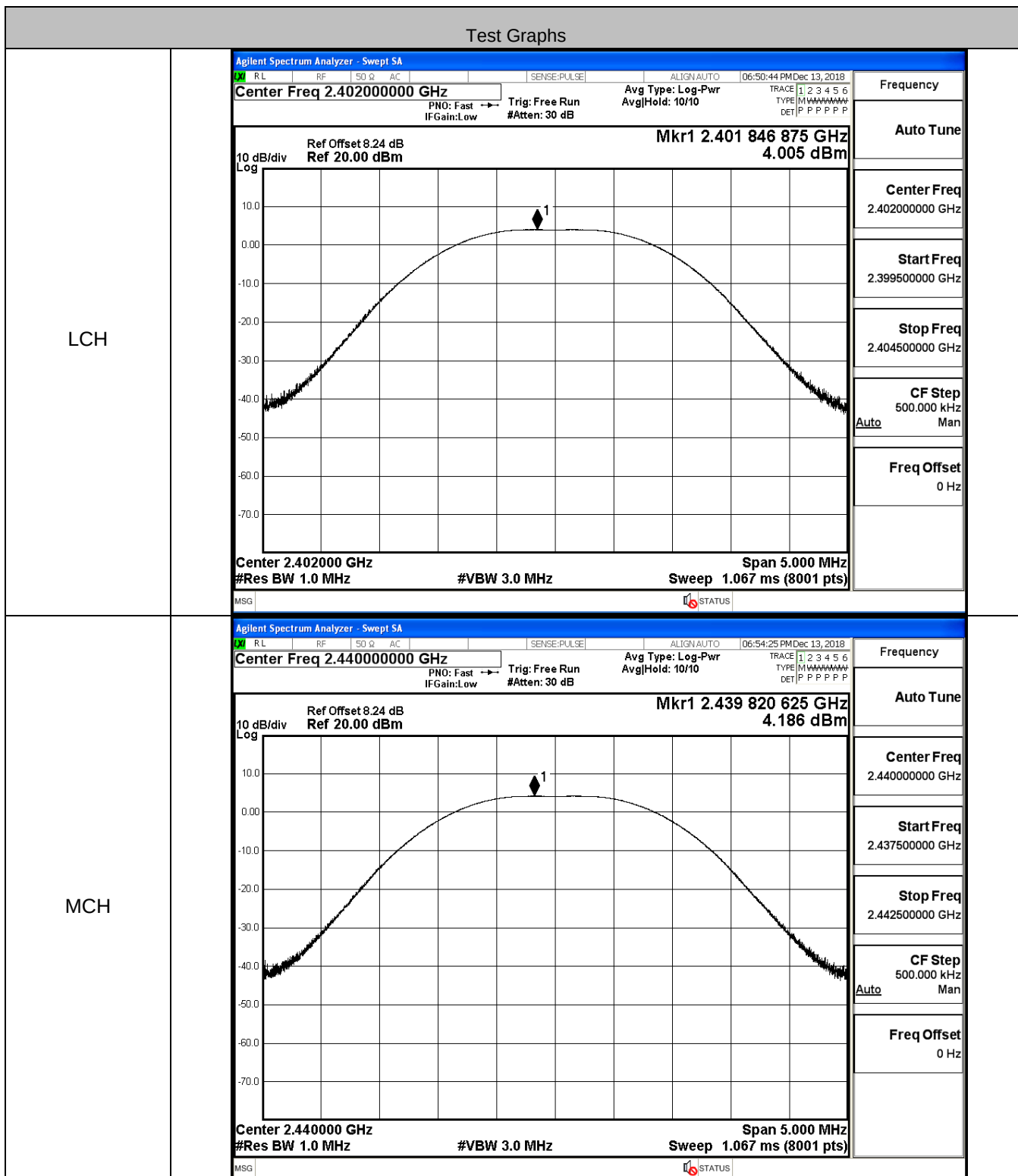
B.1 Duty Cycle

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

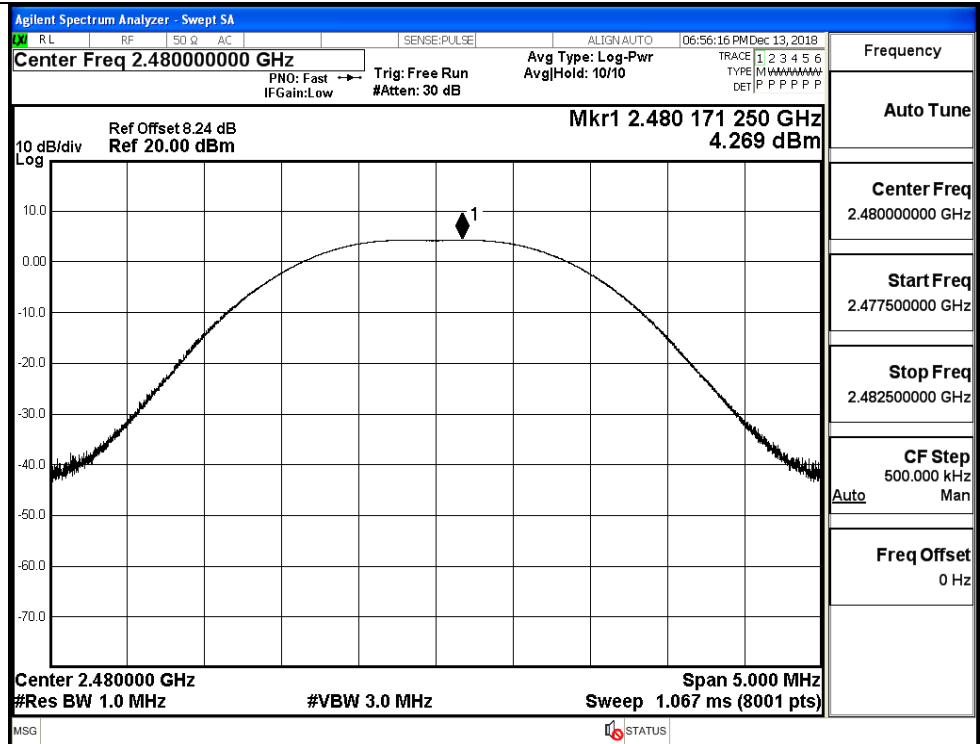


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.005	30	PASS
BT LE	MCH	4.186	30	PASS
BT LE	HCH	4.269	30	PASS



HCH

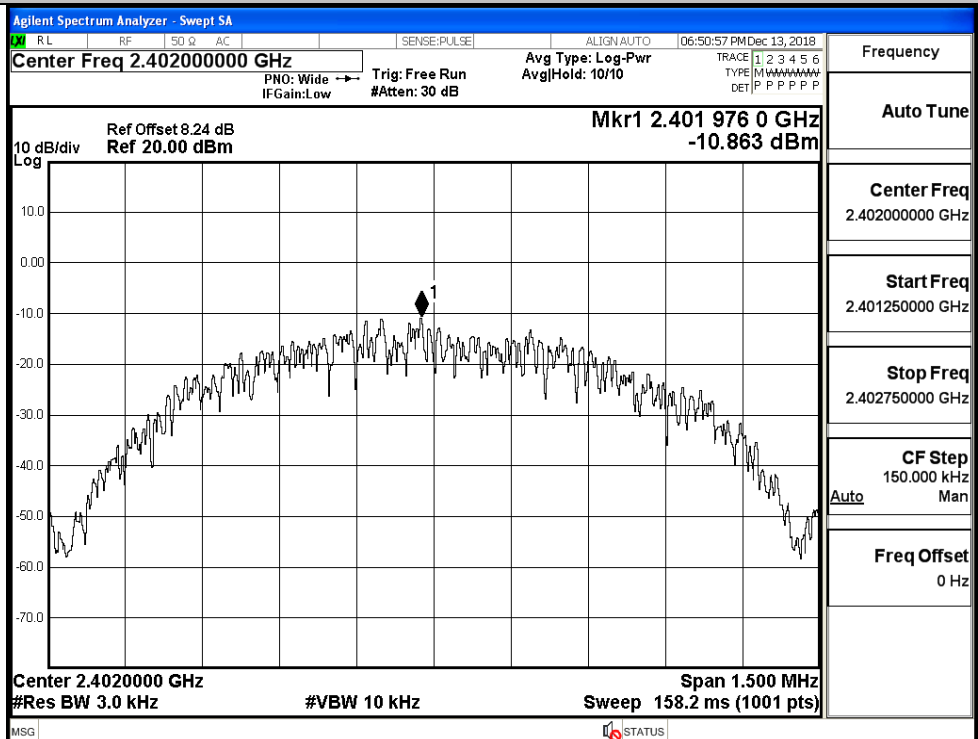


B.3 Maximum Power Spectral Density

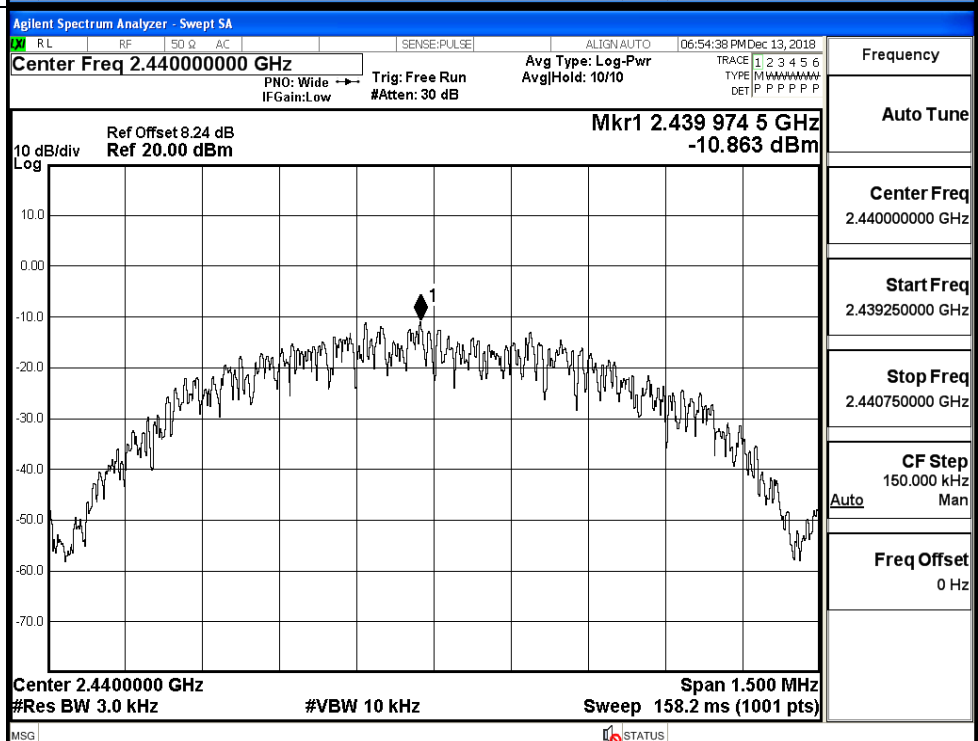
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-10.863	8	PASS
BT LE	MCH	-10.863	8	PASS
BT LE	HCH	-10.640	8	PASS

Test Graphs

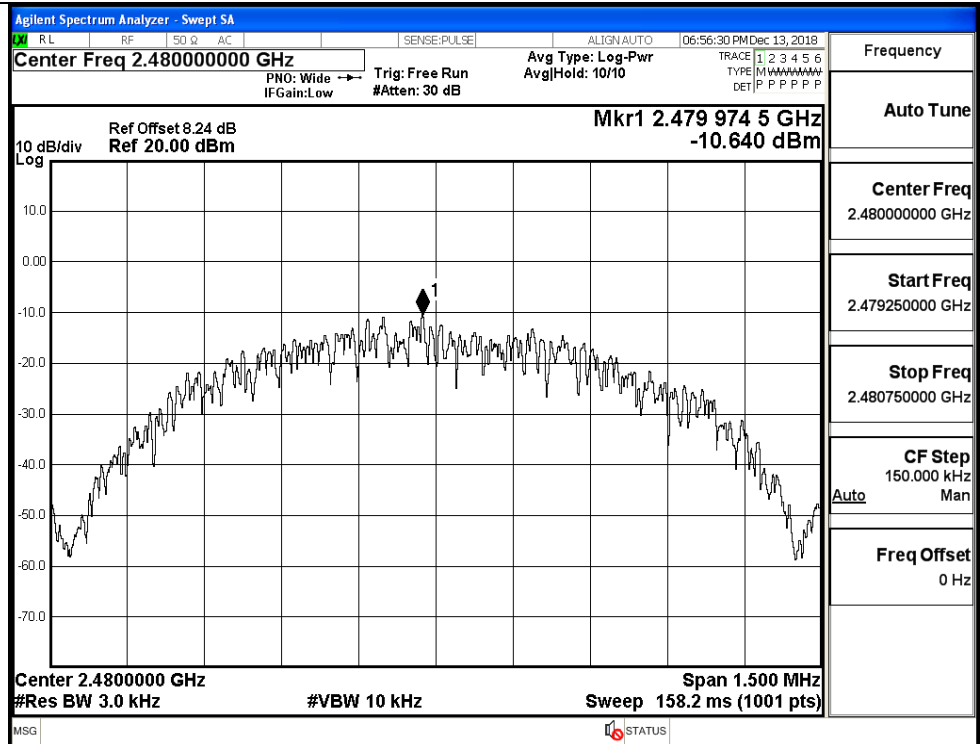
LCH



MCH



HCH

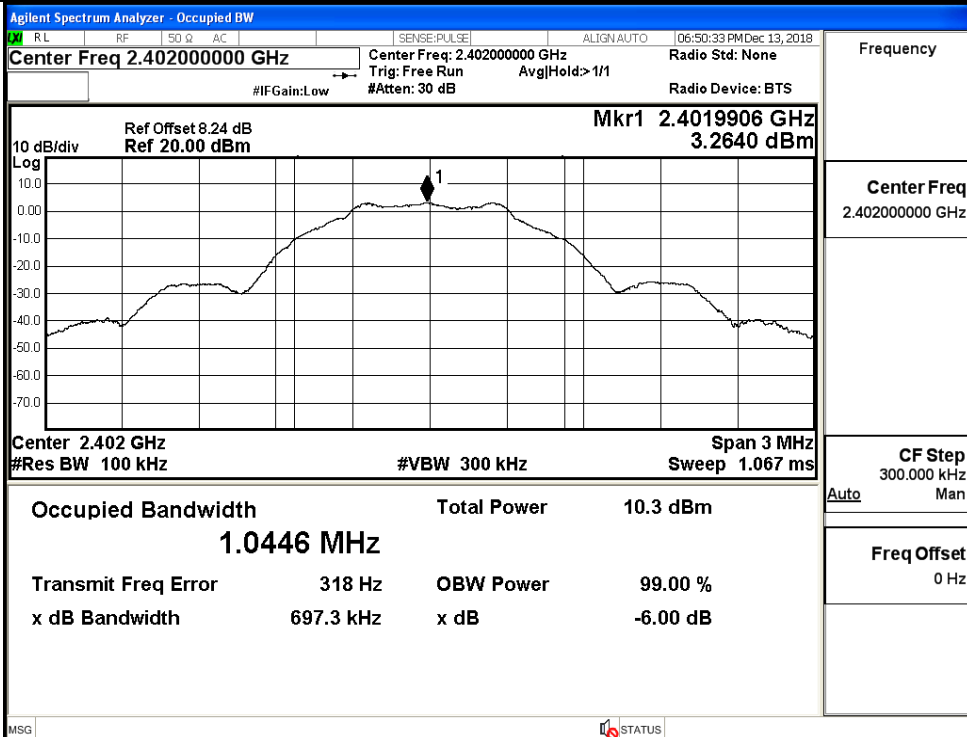


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6973	≥ 0.5	PASS
BT LE	MCH	0.6985	≥ 0.5	PASS
BT LE	HCH	0.6944	≥ 0.5	PASS

Test Graphs

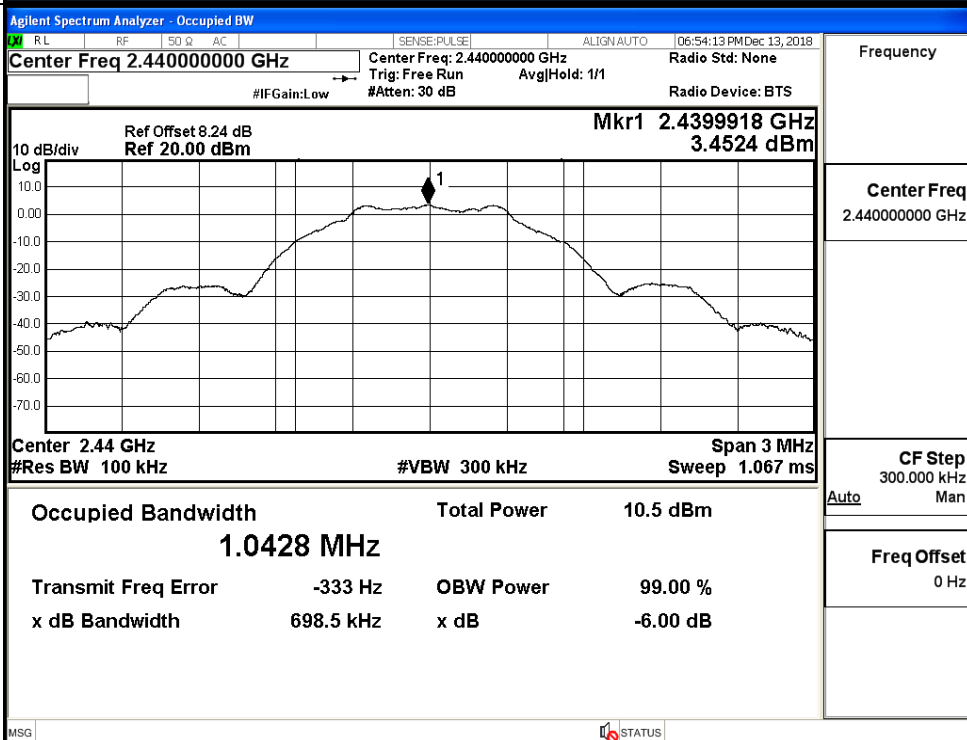
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

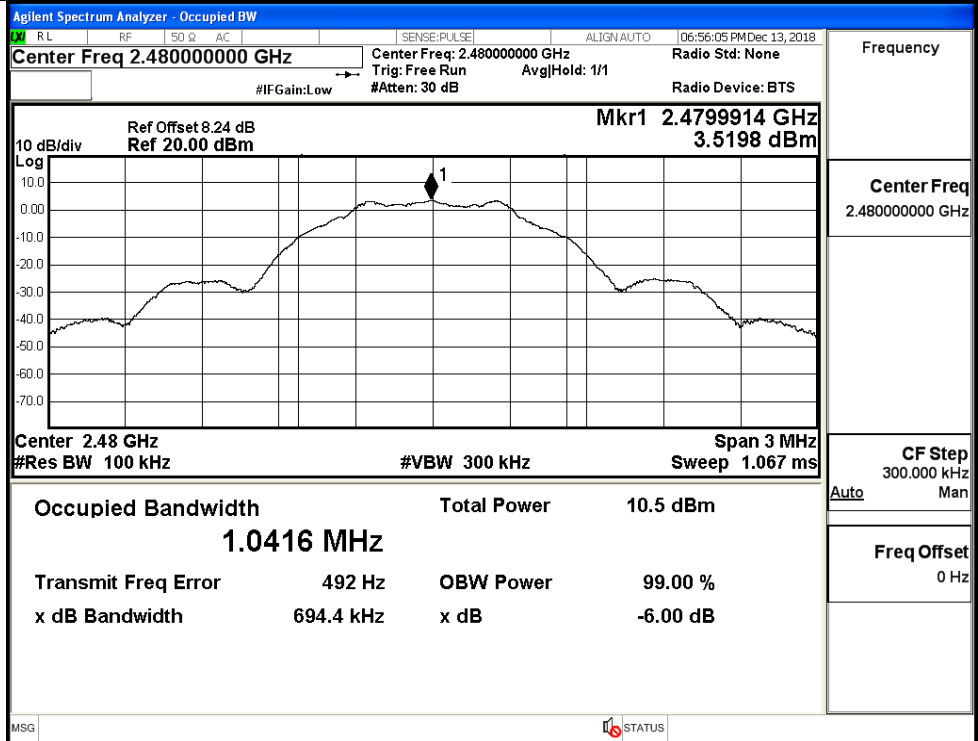
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

HCH

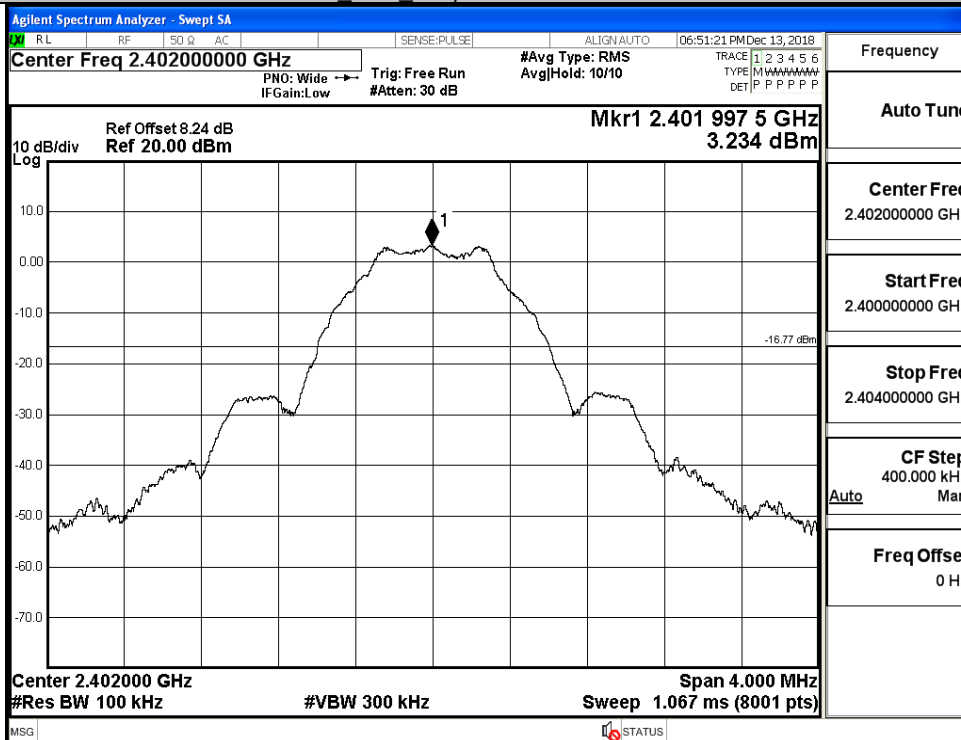


B.5 RF Conducted Spurious Emissions

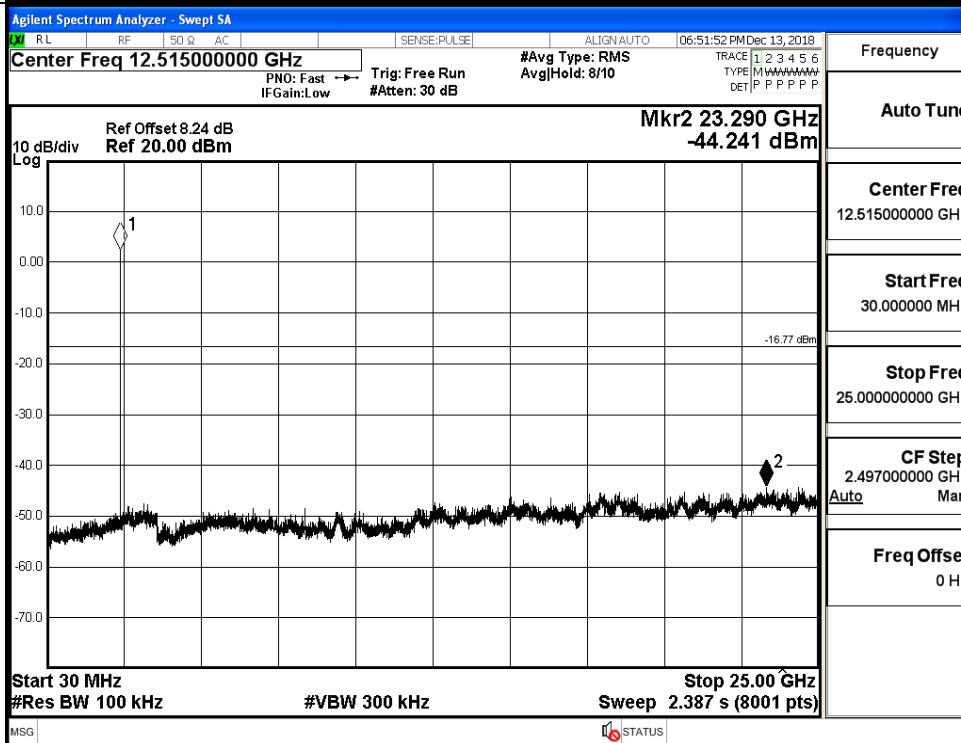
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.234	-44.241	-16.766	PASS
BT LE	MCH	3.261	-44.348	-16.739	PASS
BT LE	HCH	3.55	-44.801	-16.450	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

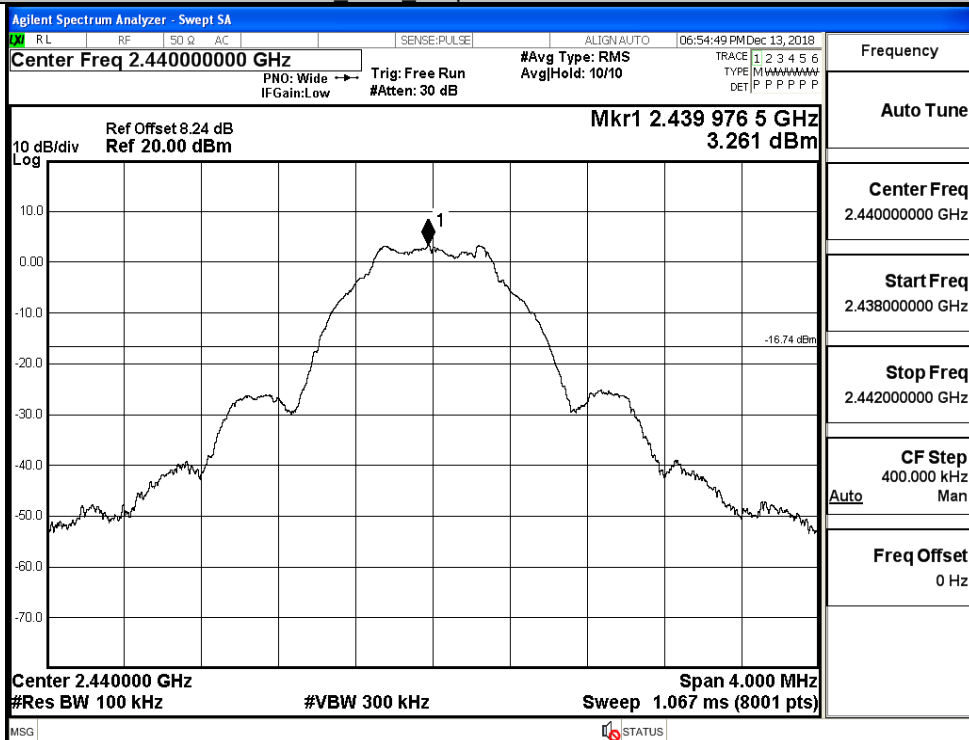


Puw/BT LE/LCH

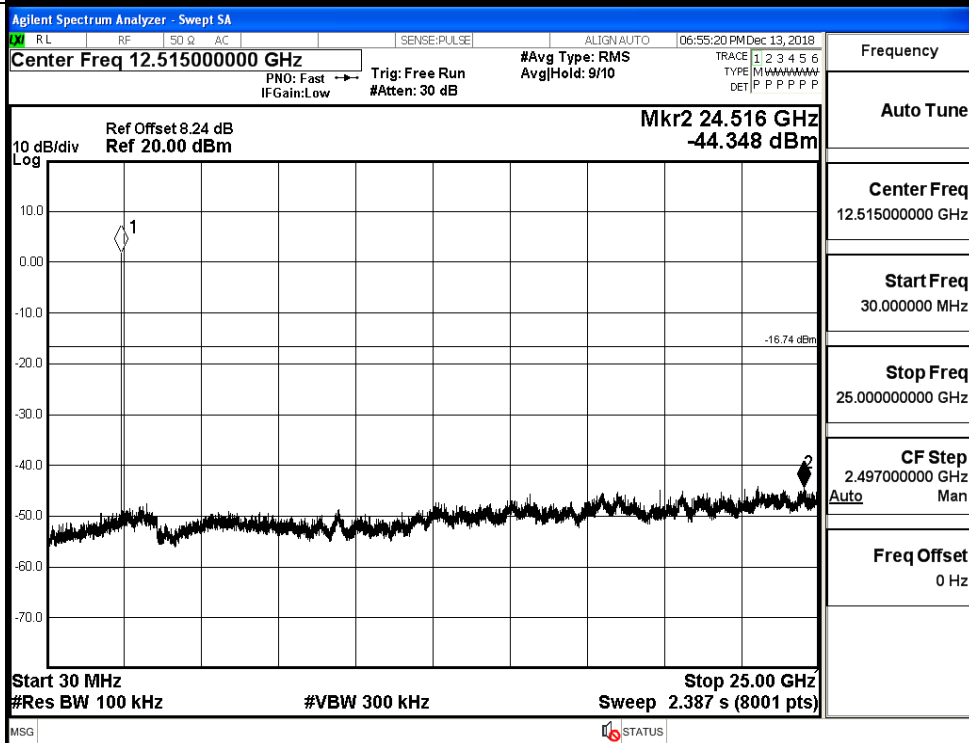


BT LE MCH Graphs

Pref/BT LE/MCH

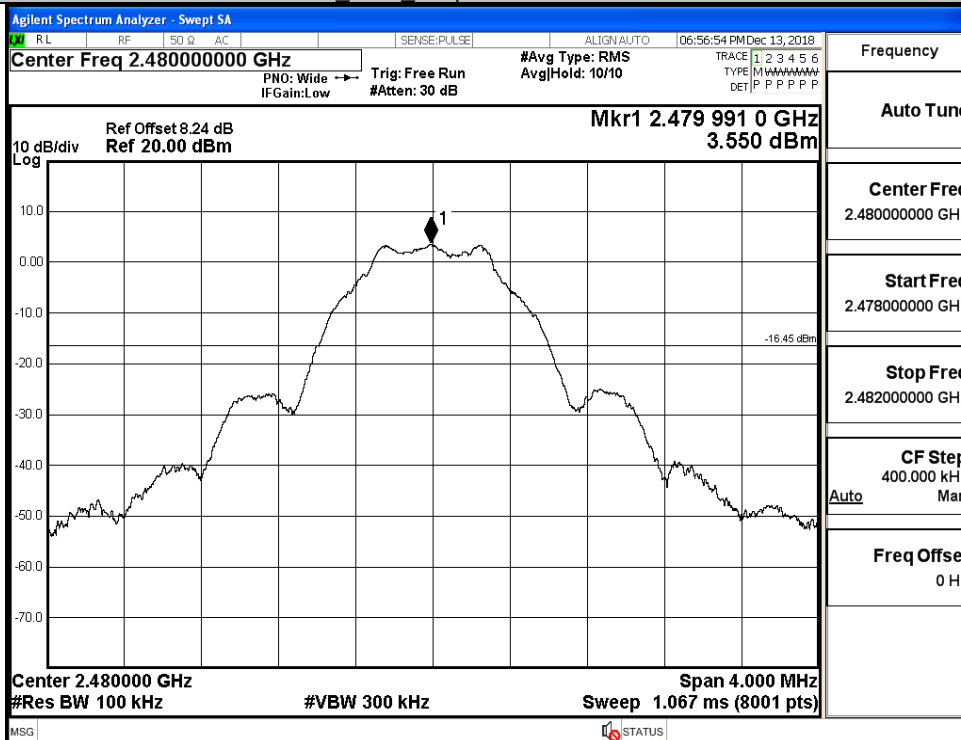


Puw/BT LE/MCH

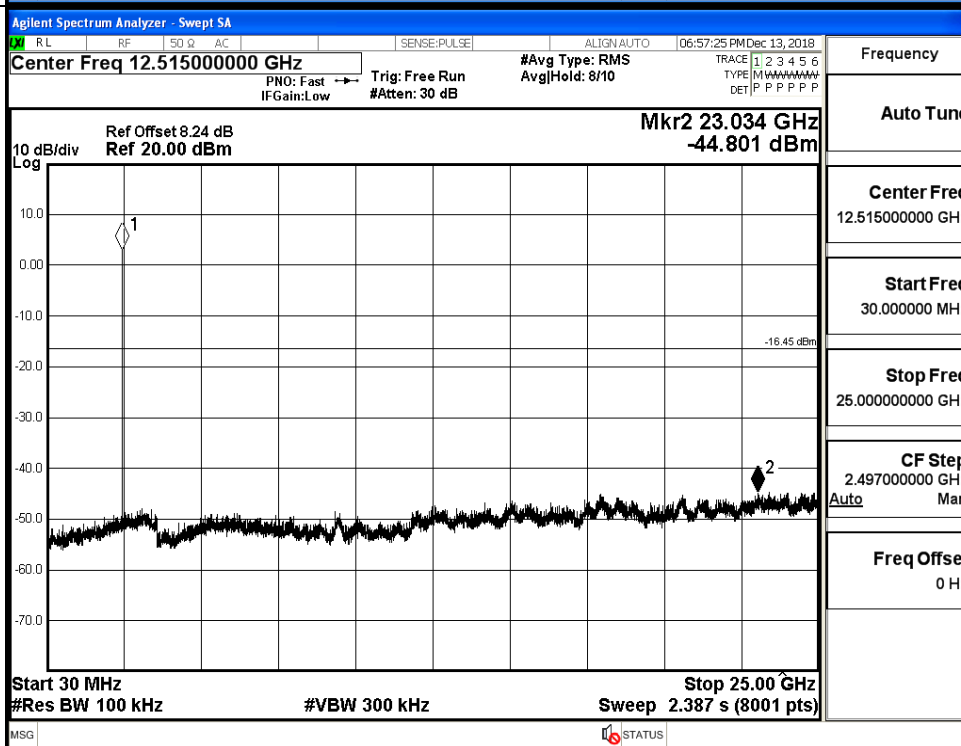


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

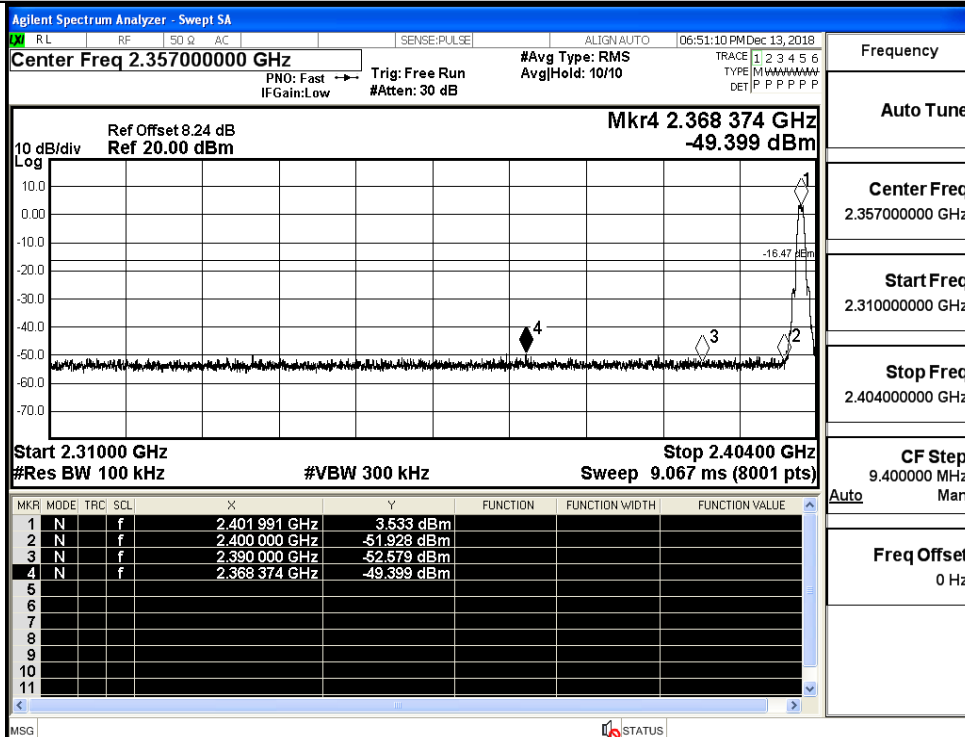


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.533	-49.399	-16.47	PASS
BT LE	HCH	3.655	-50.110	-16.35	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

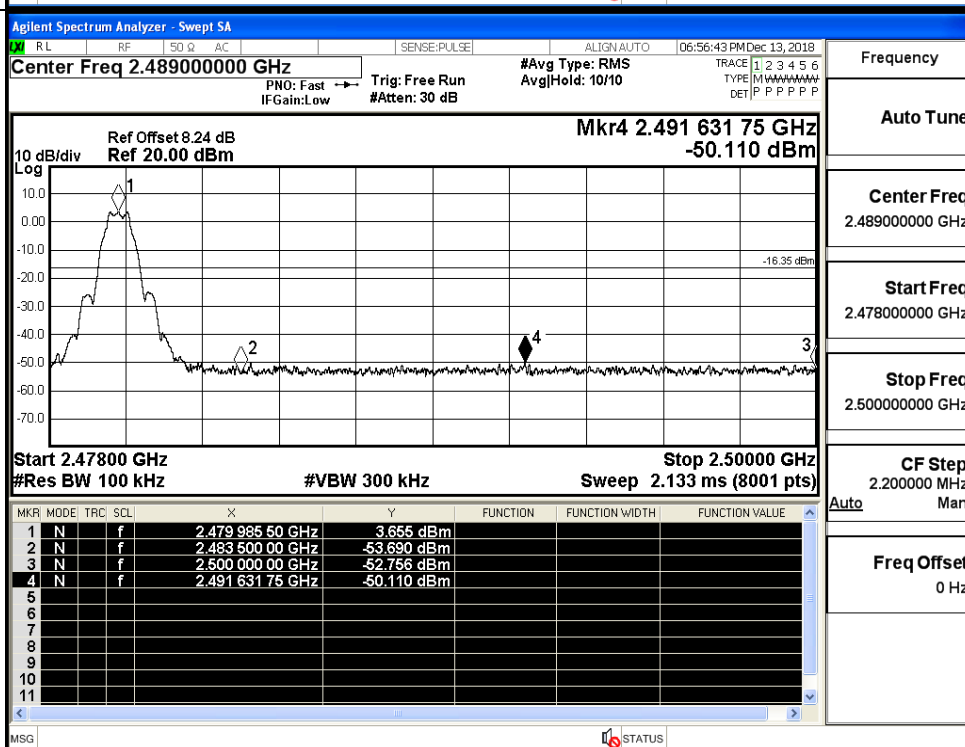
9.400000 MHz

Auto Man

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

Auto Man

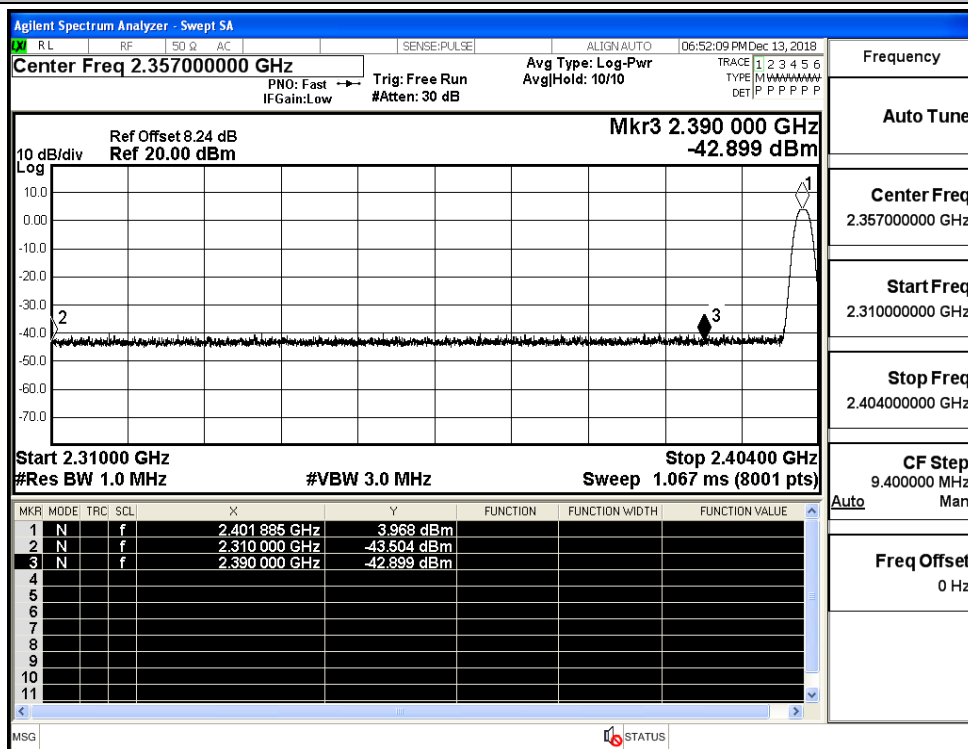
Freq Offset

0 Hz

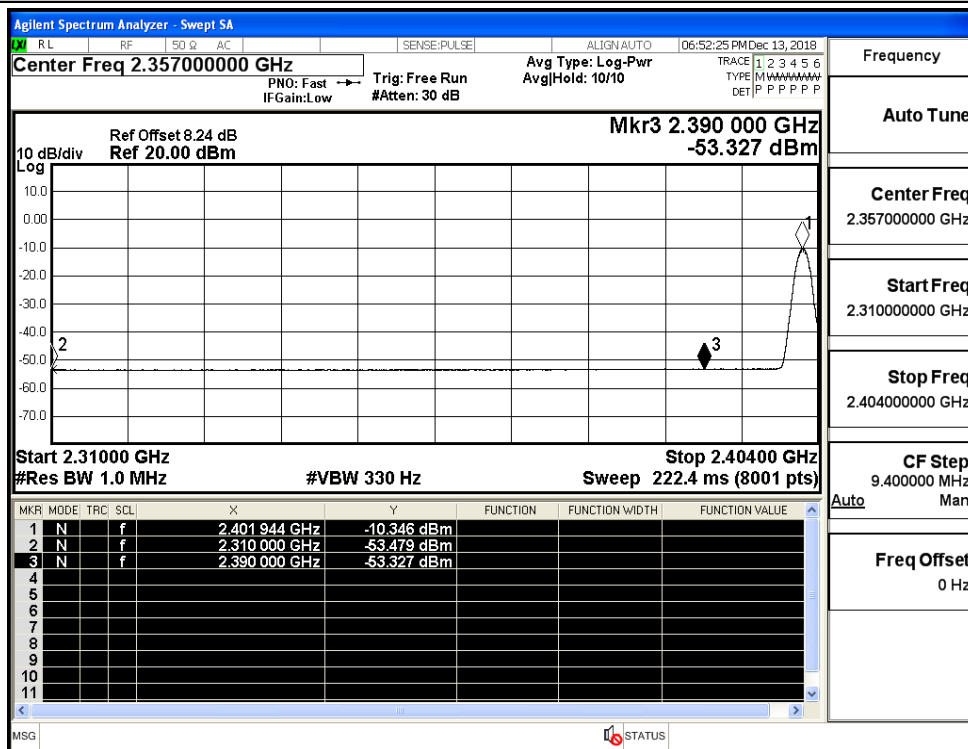
B.7 Restrict-band band-edge measurements

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	-43.50	2.0	0	51.75	PEAK	74	PASS
		Ant1	2310.0	-53.48	2.0	0	41.78	AV	54	PASS
		Ant1	2390.0	-42.90	2.0	0	52.36	PEAK	74	PASS
		Ant1	2390.0	-53.33	2.0	0	41.93	AV	54	PASS
	2480	Ant1	2483.5	-42.22	2.0	0	53.04	PEAK	74	PASS
		Ant1	2483.5	-52.90	2.0	0	42.35	AV	54	PASS
		Ant1	2500.0	-42.82	2.0	0	52.43	PEAK	74	PASS
		Ant1	2500.0	-52.90	2.0	0	42.36	AV	54	PASS

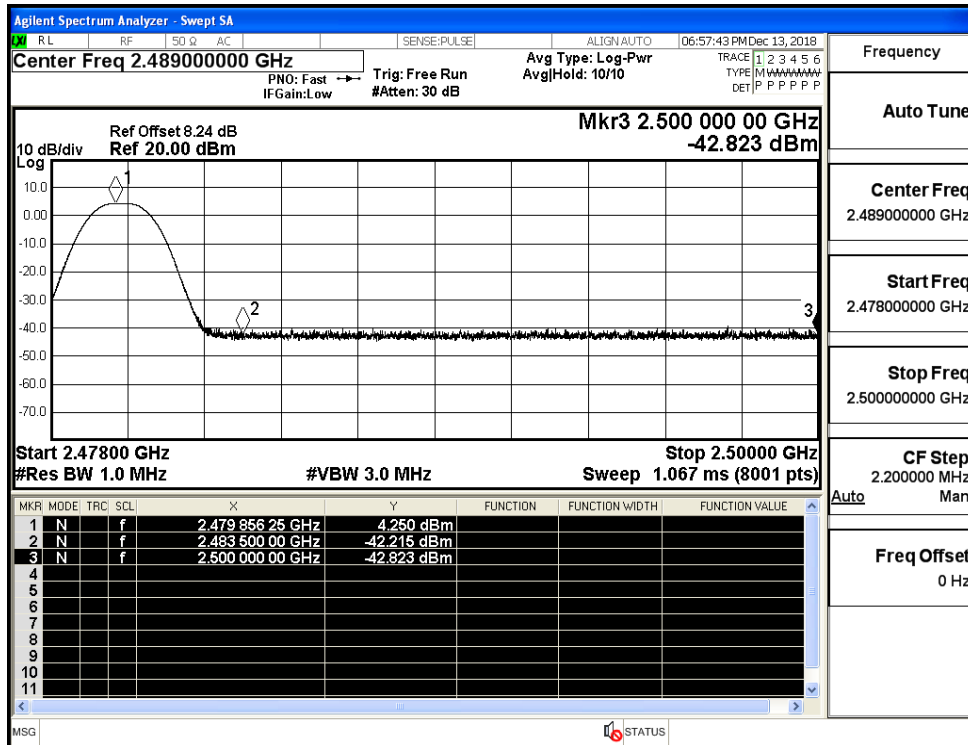
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

