

Appendix A

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

Product Name: Remote control

Trade Mark: VIOFO

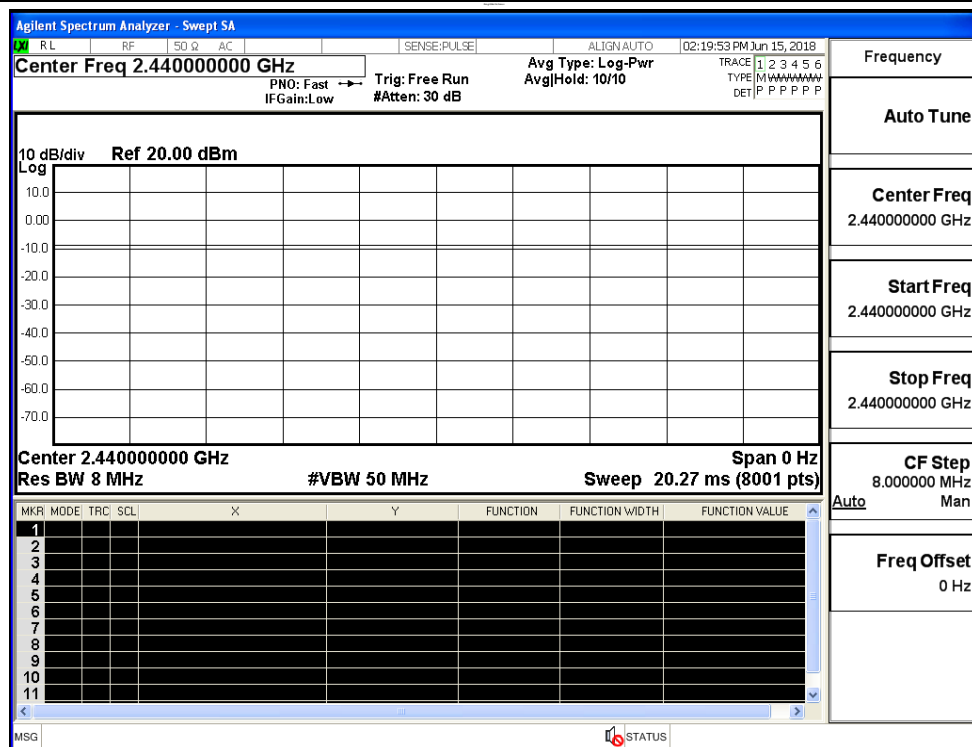
Test Model: rm100

Environmental Conditions

Temperature:	22.6 ° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden.Zhuo

A.1 Duty Cycle

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

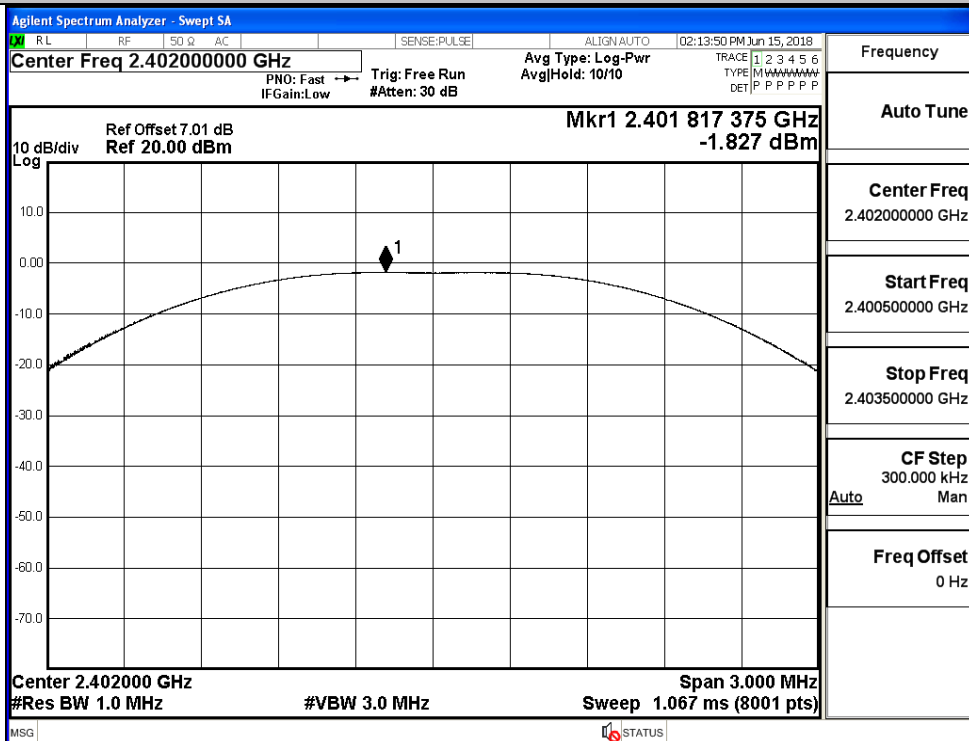


A.2 Maximum Conducted Peak Output Power

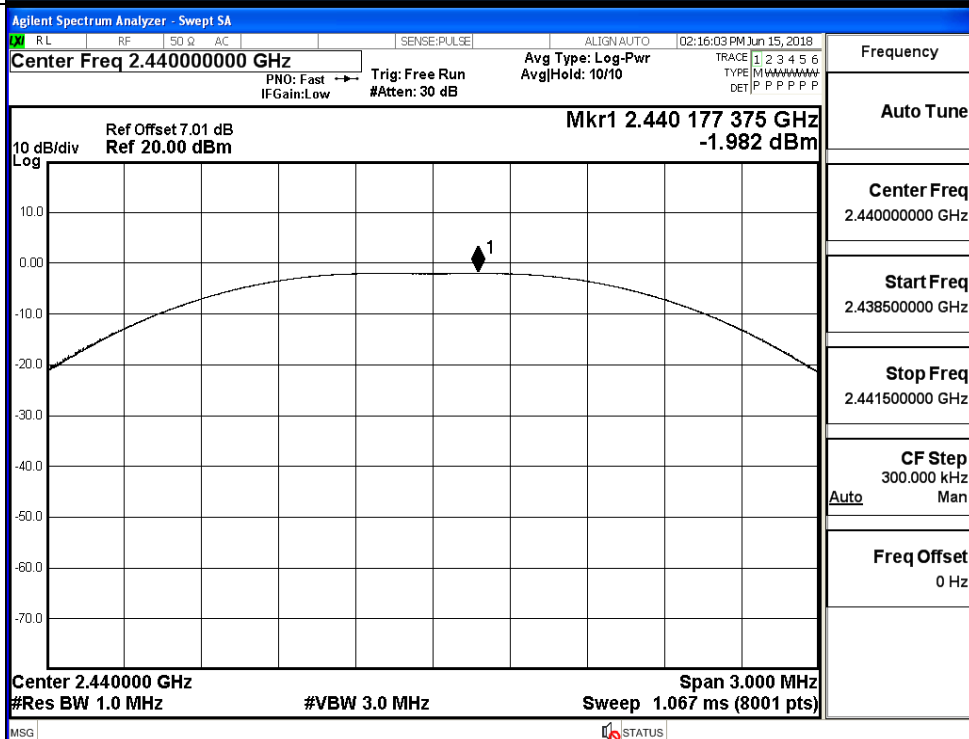
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.827	30	PASS
BT LE	MCH	-1.982	30	PASS
BT LE	HCH	-2.802	30	PASS

Test Graphs

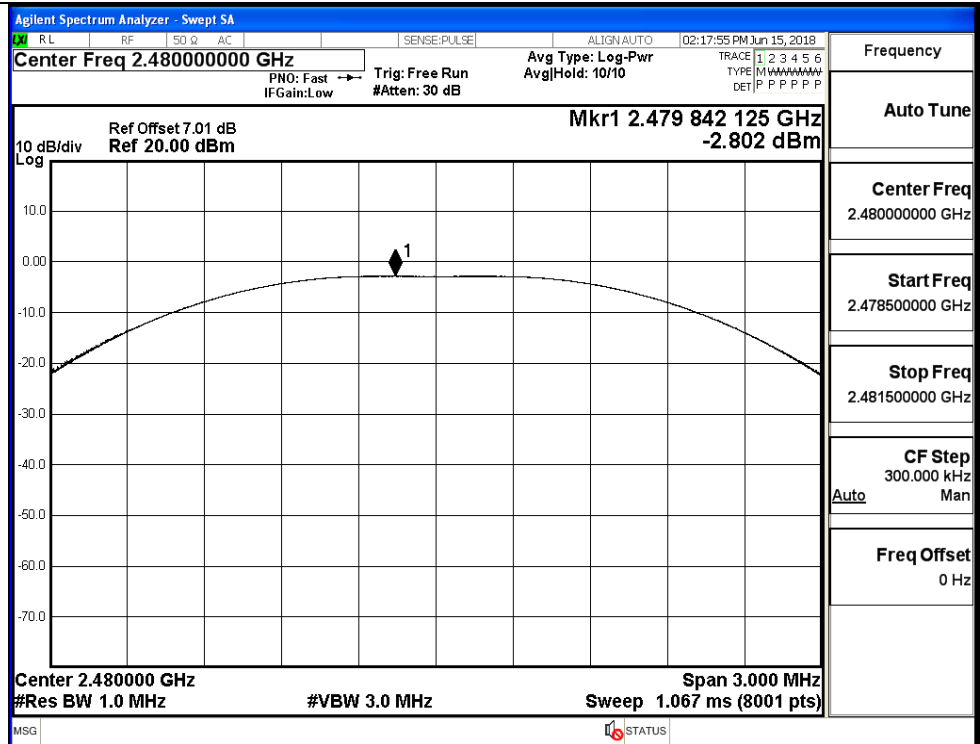
LCH



MCH



HCH

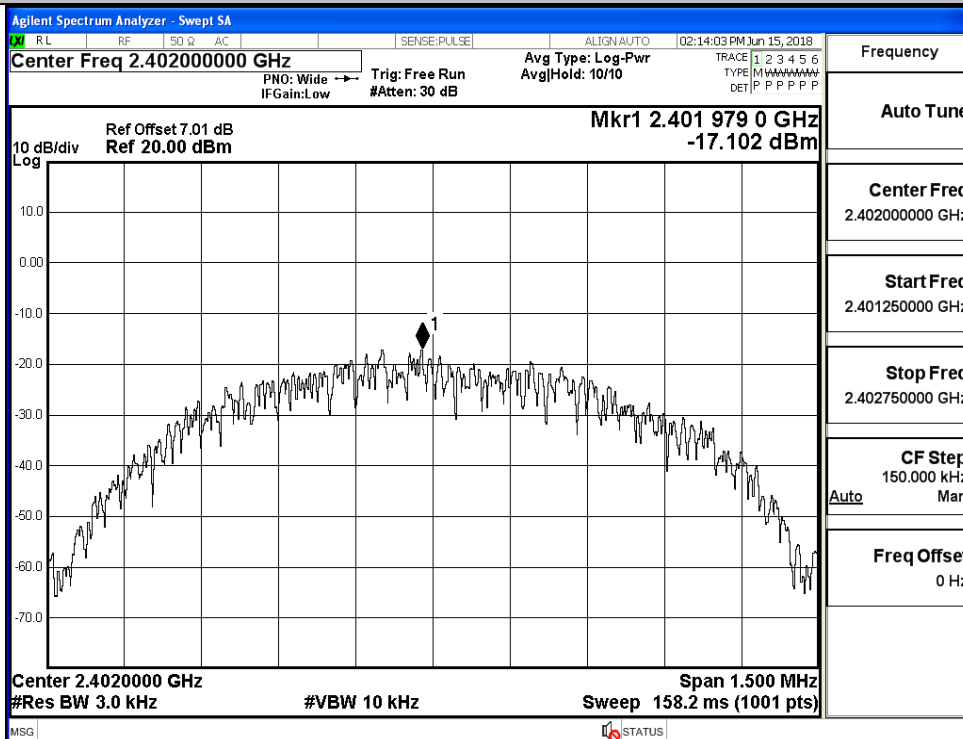


A.3 Maximum Power Spectral Density

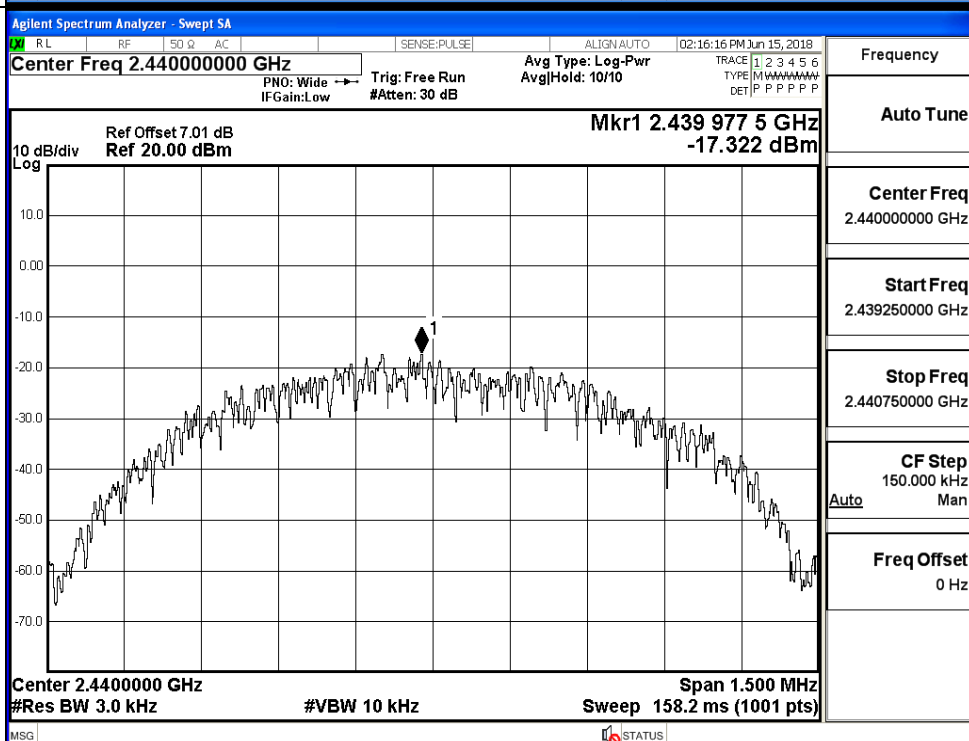
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.102	8	PASS
BT LE	MCH	-17.322	8	PASS
BT LE	HCH	-18.182	8	PASS

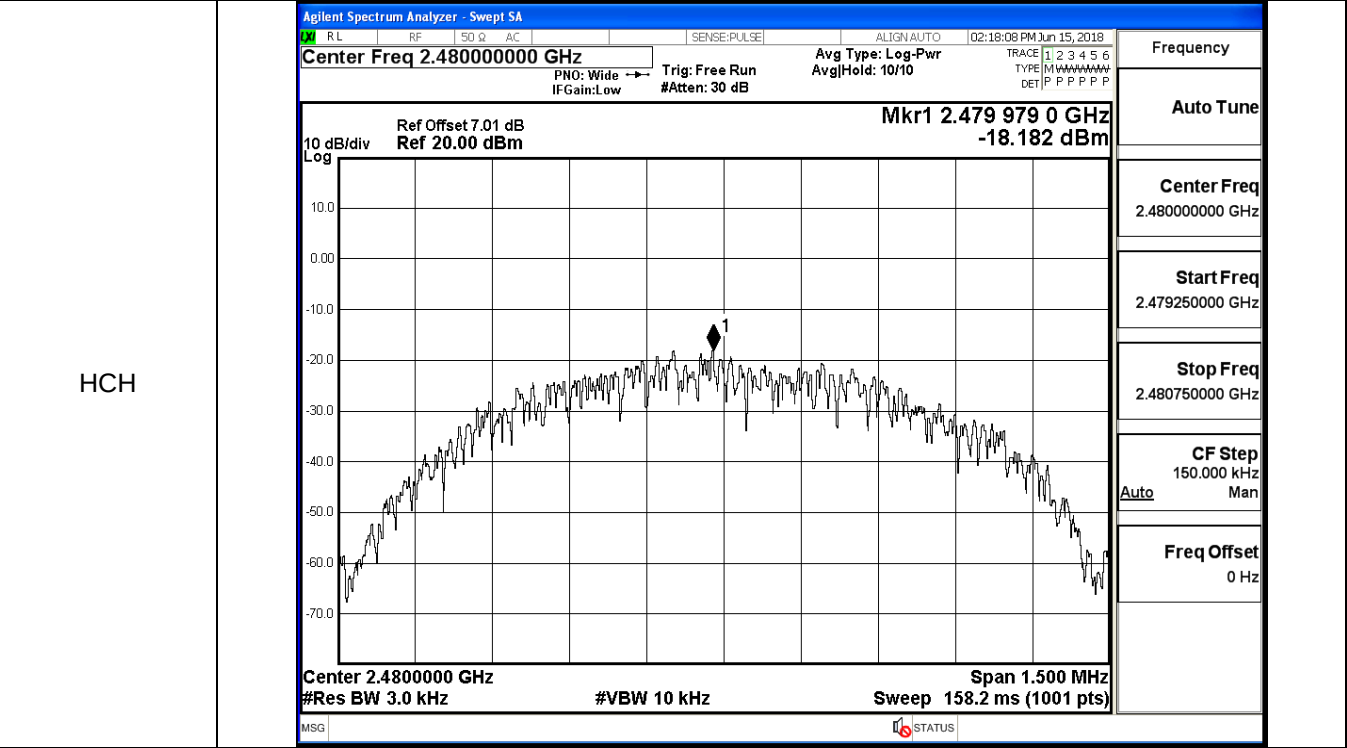
Test Graphs

LCH



MCH



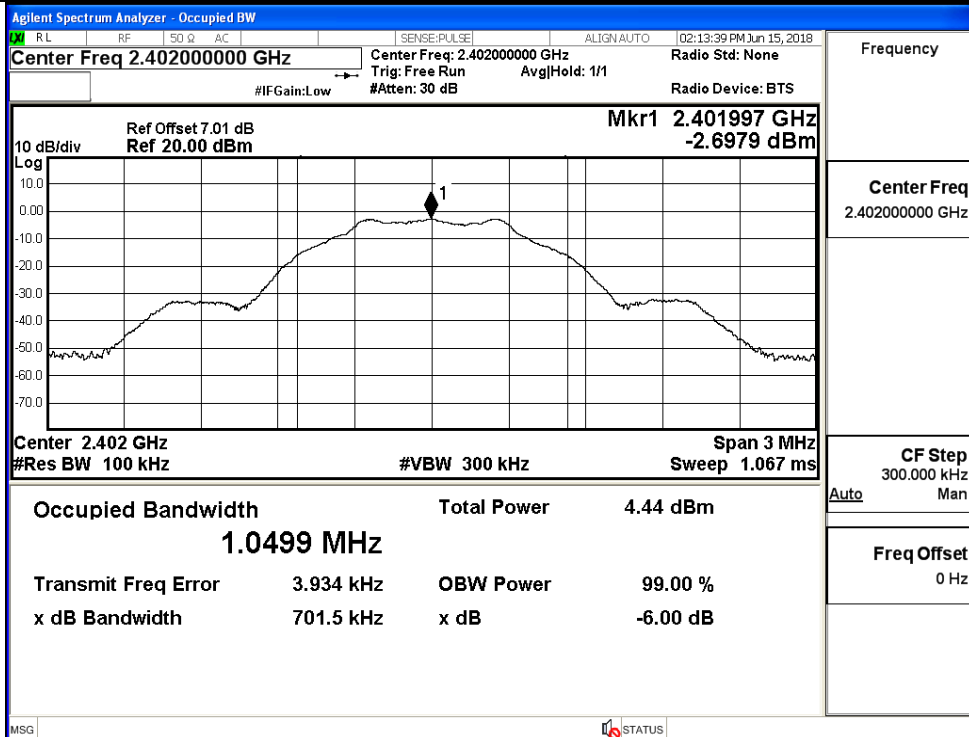


A.4 6dB Bandwidth

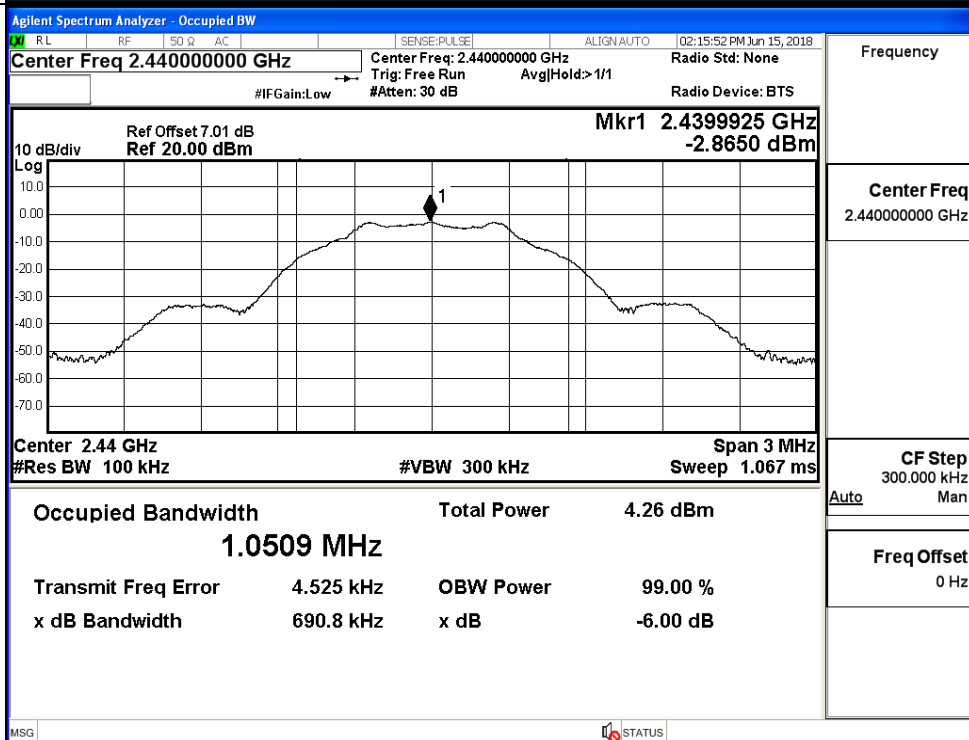
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7015	≥ 0.5	PASS
BT LE	MCH	0.6908	≥ 0.5	PASS
BT LE	HCH	0.7014	≥ 0.5	PASS

Test Graphs

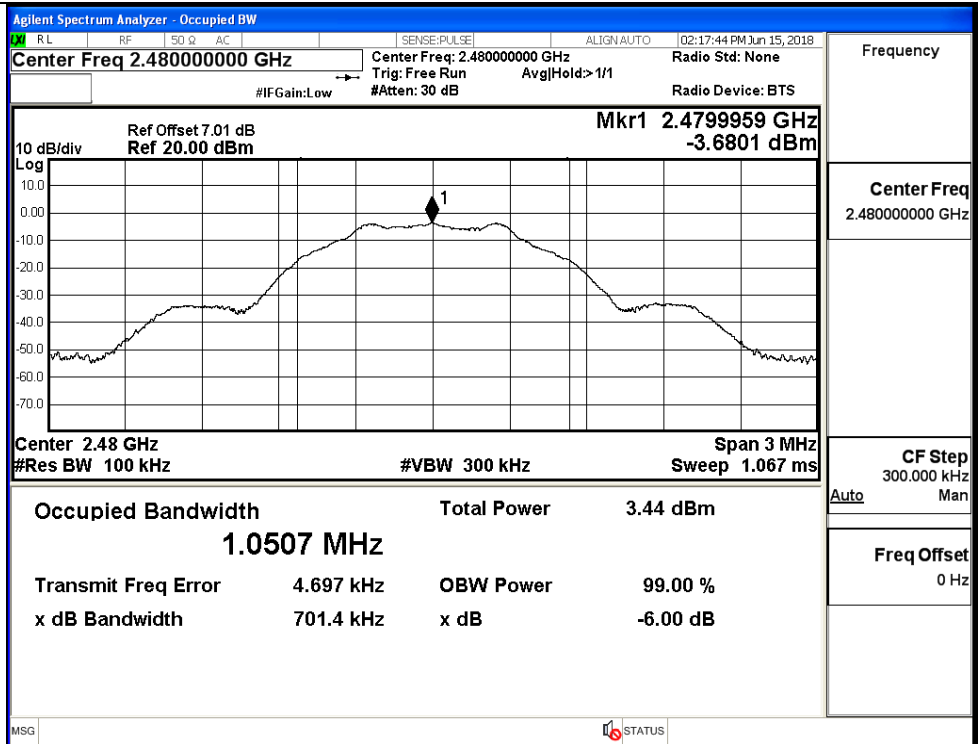
LCH



MCH



HCH

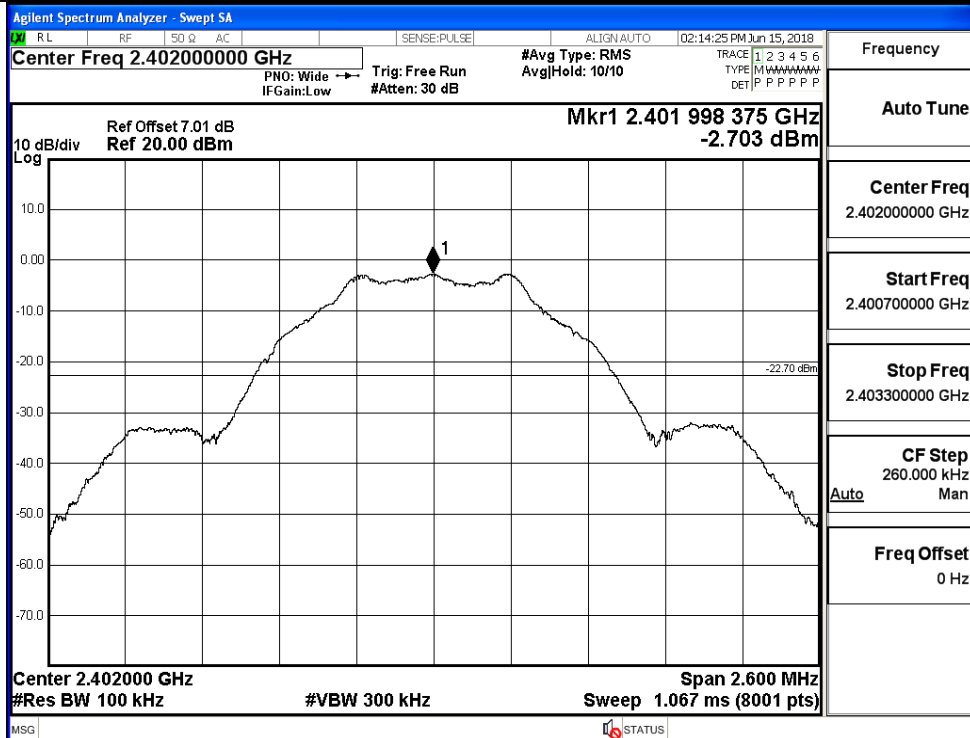


A.5 RF Conducted Spurious Emissions

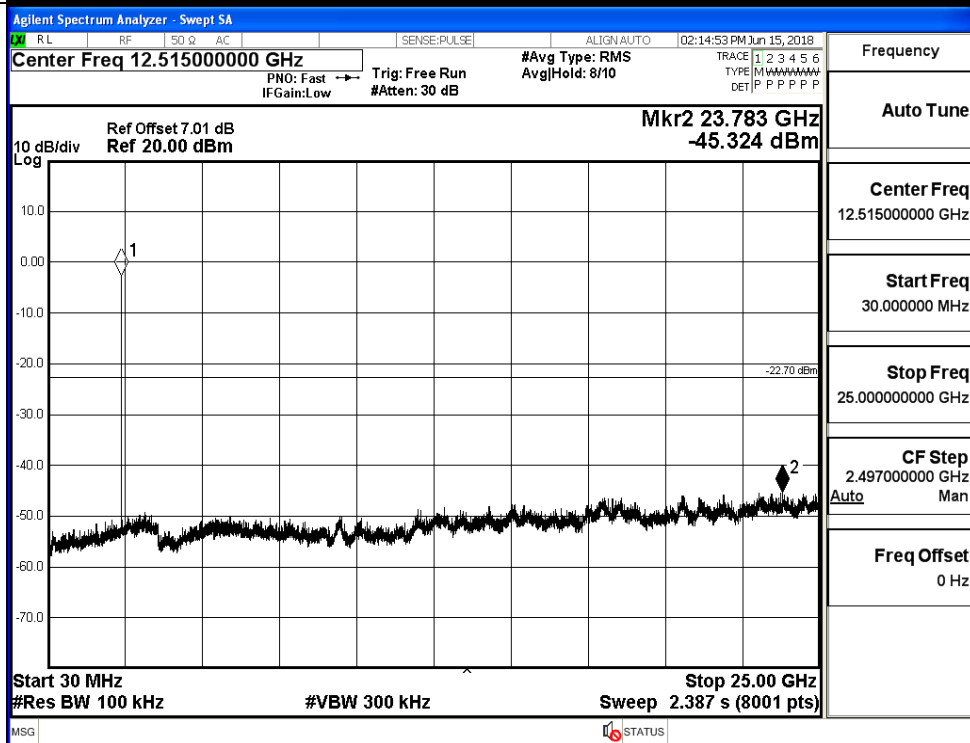
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.703	-45.324	-22.703	PASS
BT LE	MCH	-2.886	-45.593	-22.886	PASS
BT LE	HCH	-3.767	-44.349	-23.767	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

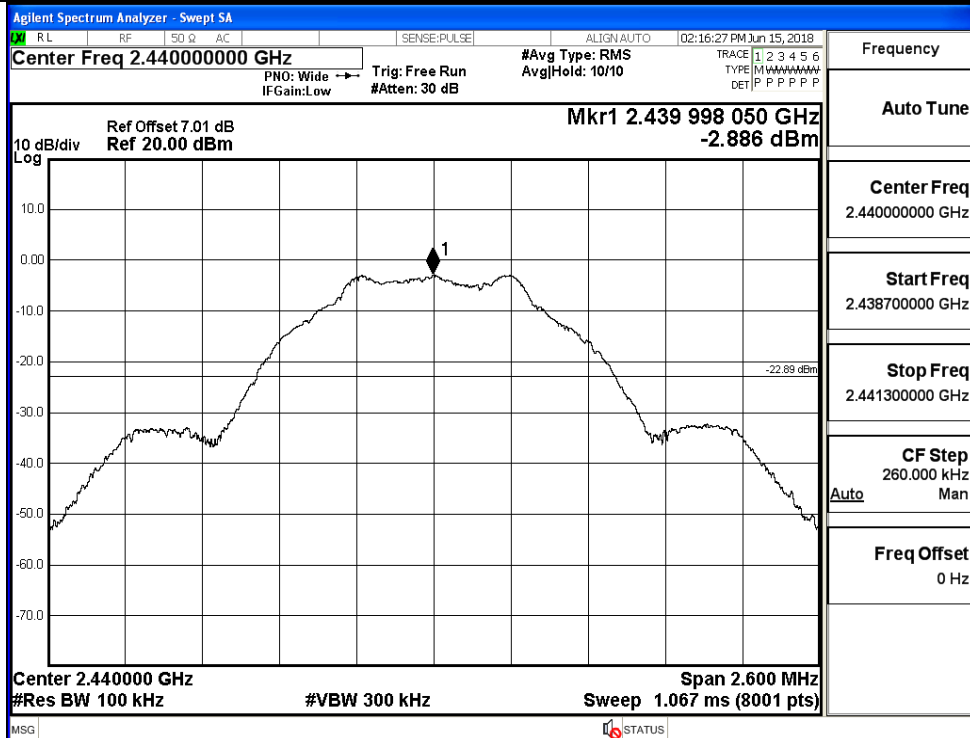


Puw/BT LE/LCH

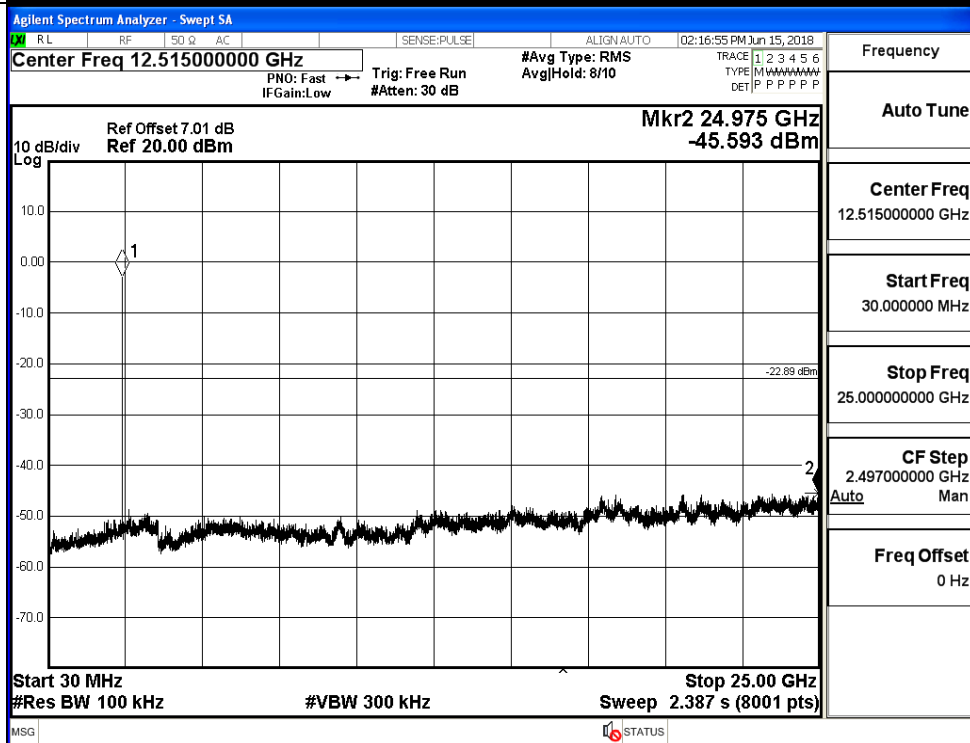


BT LE MCH Graphs

Pref/BT LE/MCH

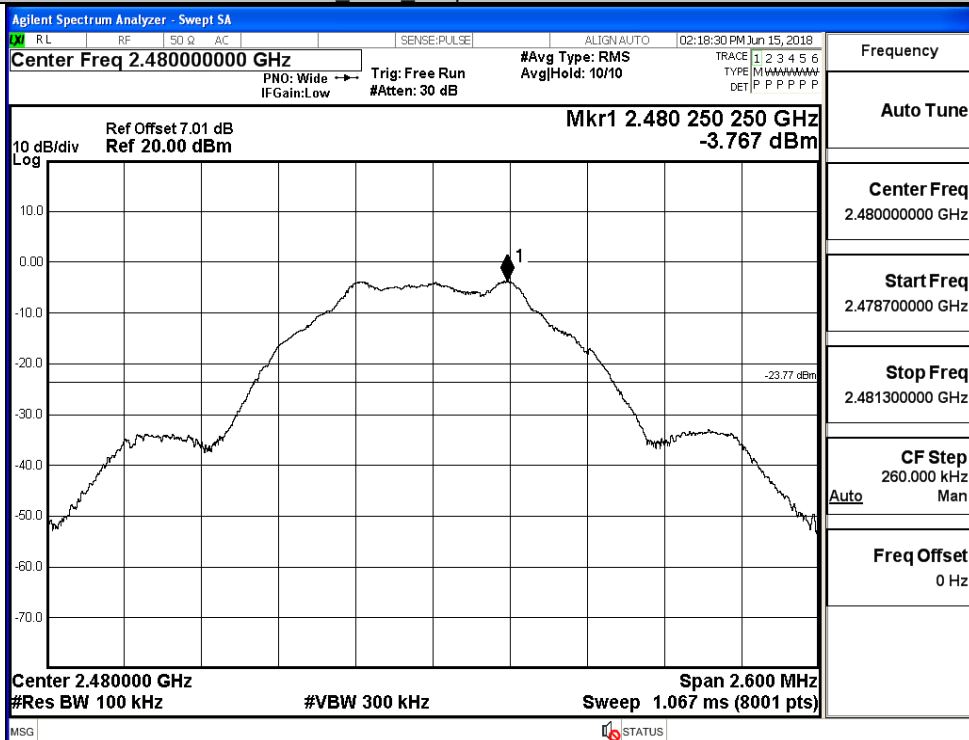


Puw/BT LE/MCH

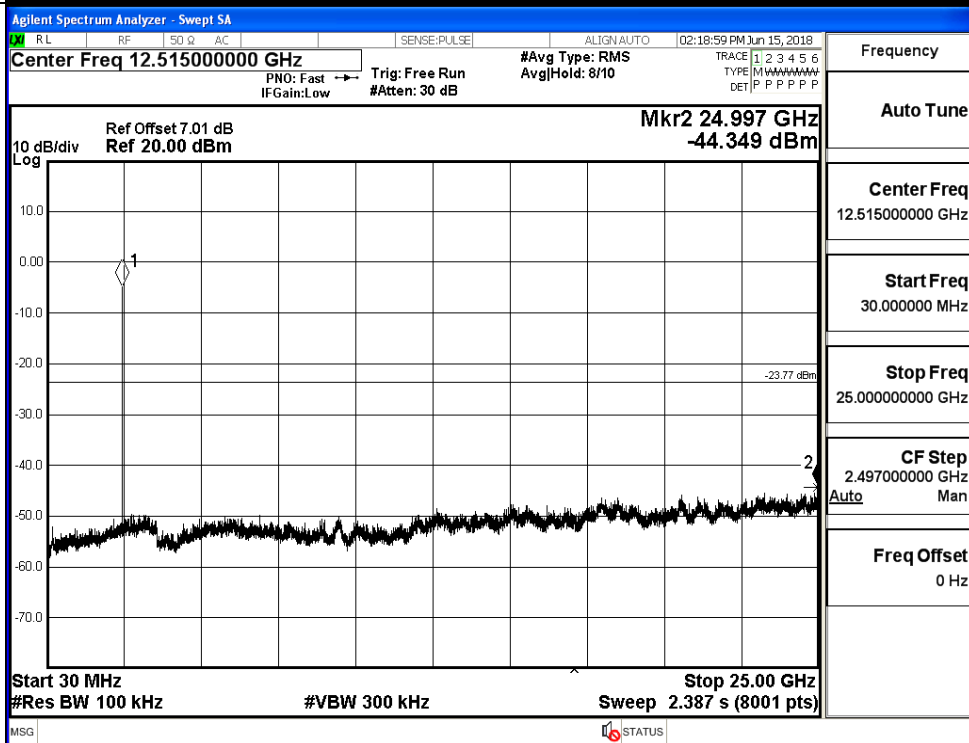


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

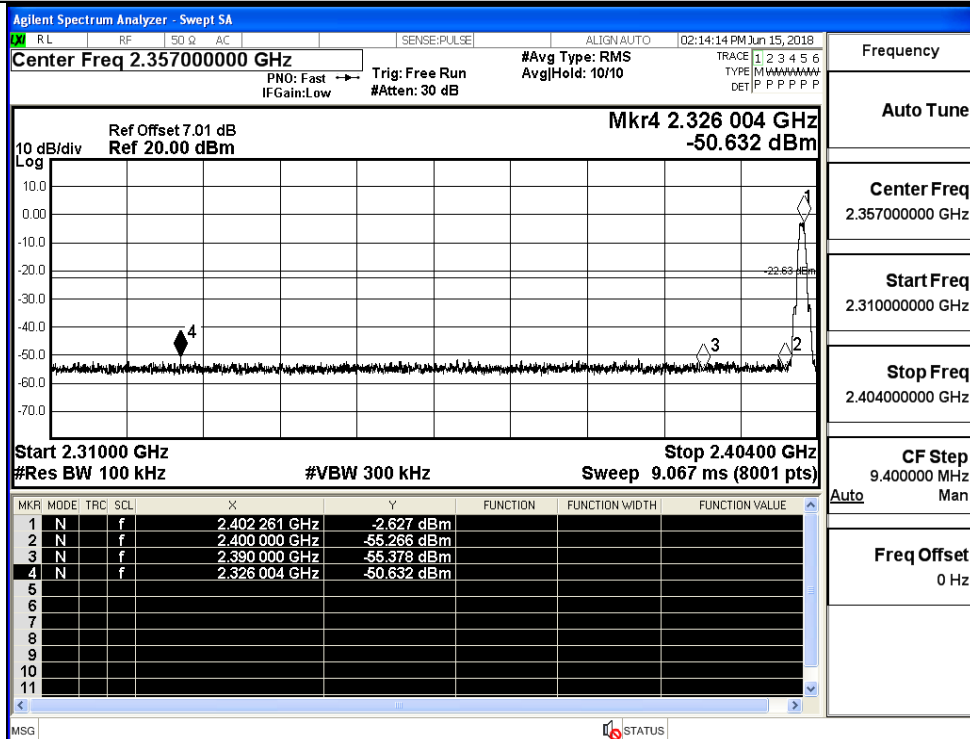


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.627	-50.632	-22.63	PASS
BT LE	HCH	-3.544	-51.172	-23.54	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

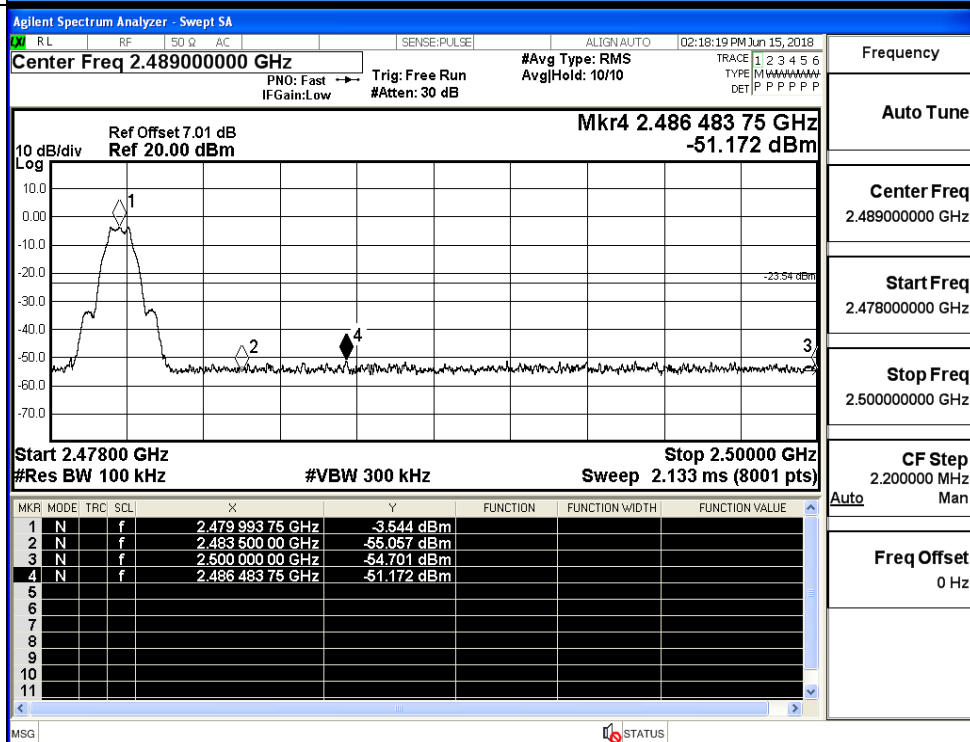
9.400000 MHz

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

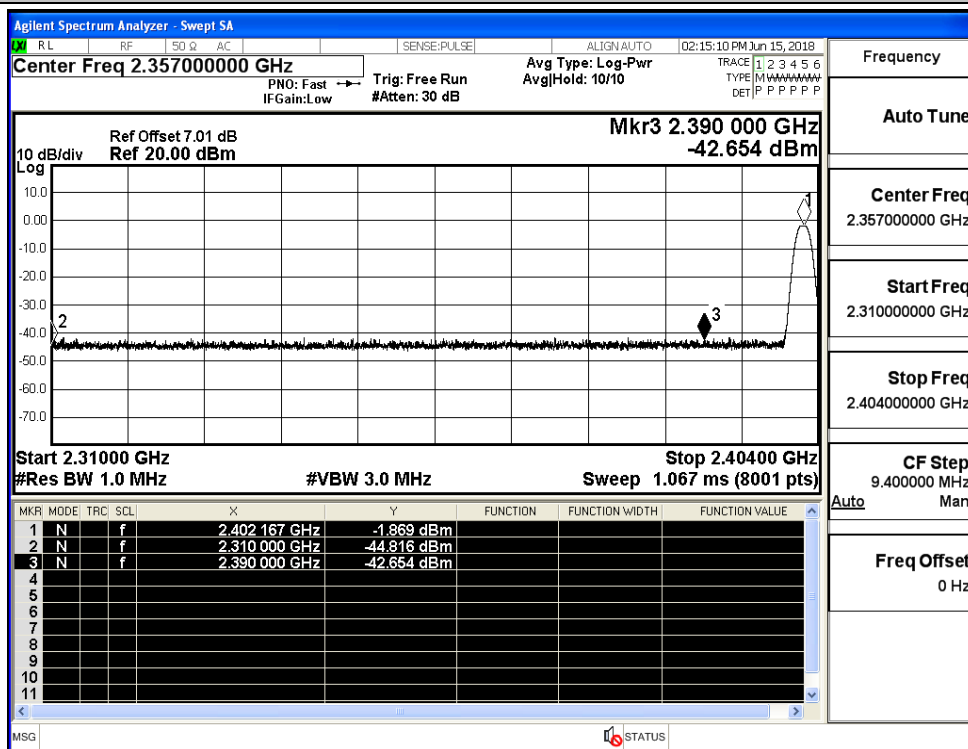
Freq Offset

0 Hz

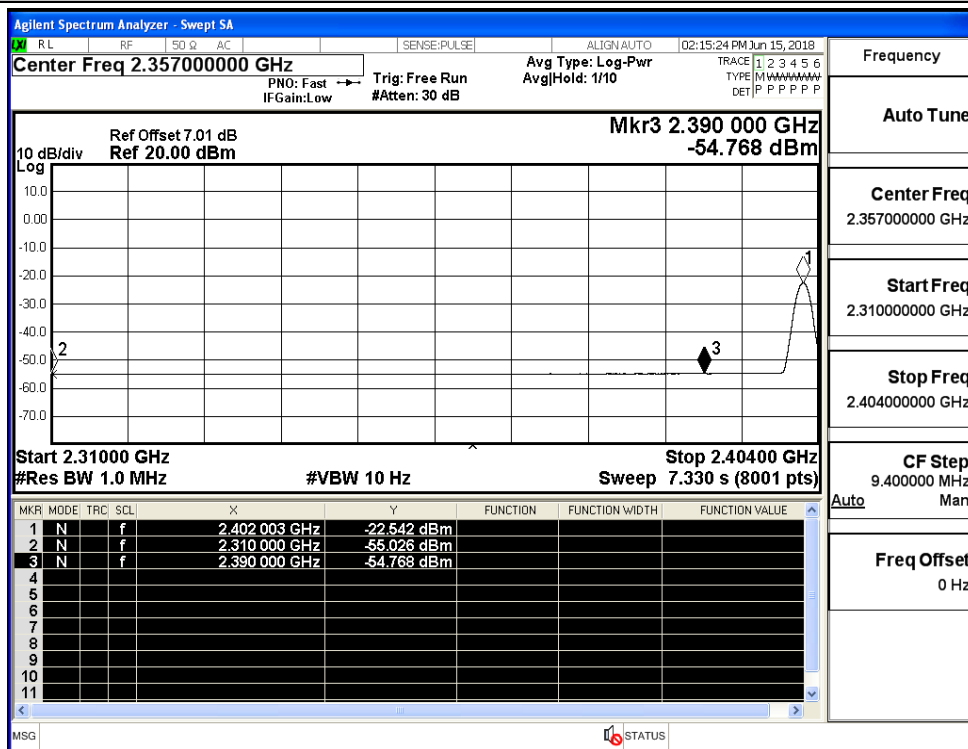
A.7 Restrict-band band-edge measurements

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	-44.82	2.0	0	52.41	PEAK	74	PASS
		Ant1	2310.0	-55.03	2.0	0	42.20	AV	54	PASS
		Ant1	2390.0	-42.65	2.0	0	54.58	PEAK	74	PASS
		Ant1	2390.0	-54.77	2.0	0	42.46	AV	54	PASS
	2480	Ant1	2483.5	-43.41	2.0	0	53.82	PEAK	74	PASS
		Ant1	2483.5	-54.54	2.0	0	42.69	AV	54	PASS
		Ant1	2500.0	-43.98	2.0	0	53.25	PEAK	74	PASS
		Ant1	2500.0	-54.42	2.0	0	42.81	AV	54	PASS

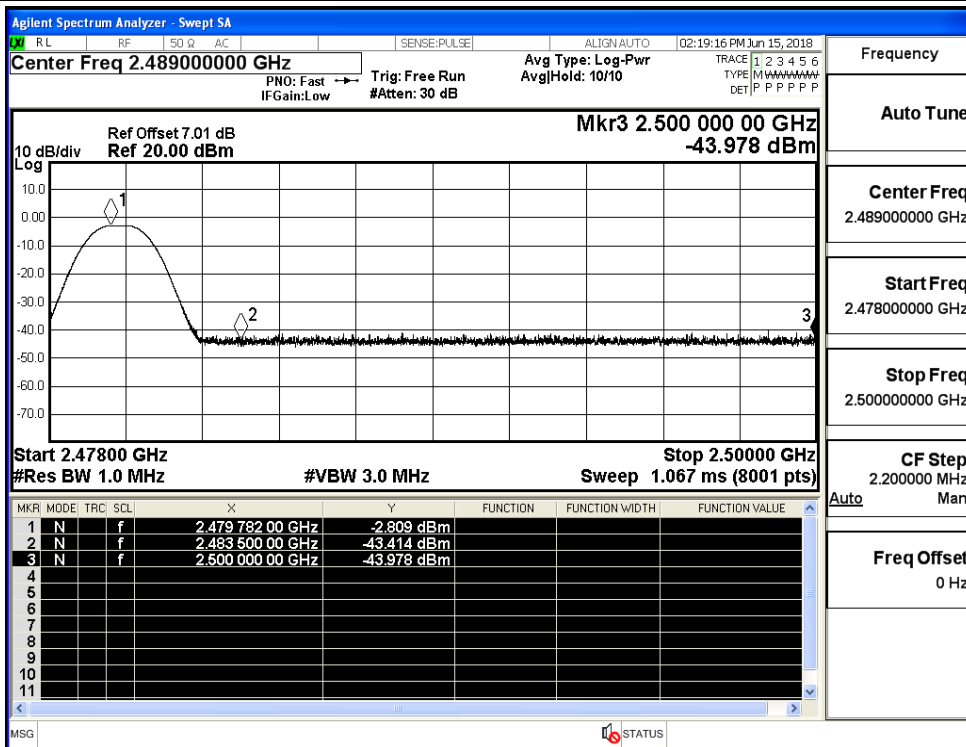
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

