

Appendix A

RF Test Data for BT 4.2(BLE) (Conducted Measurement)

Product Name: Wireless Remote Control

Trade Mark: AODELAN

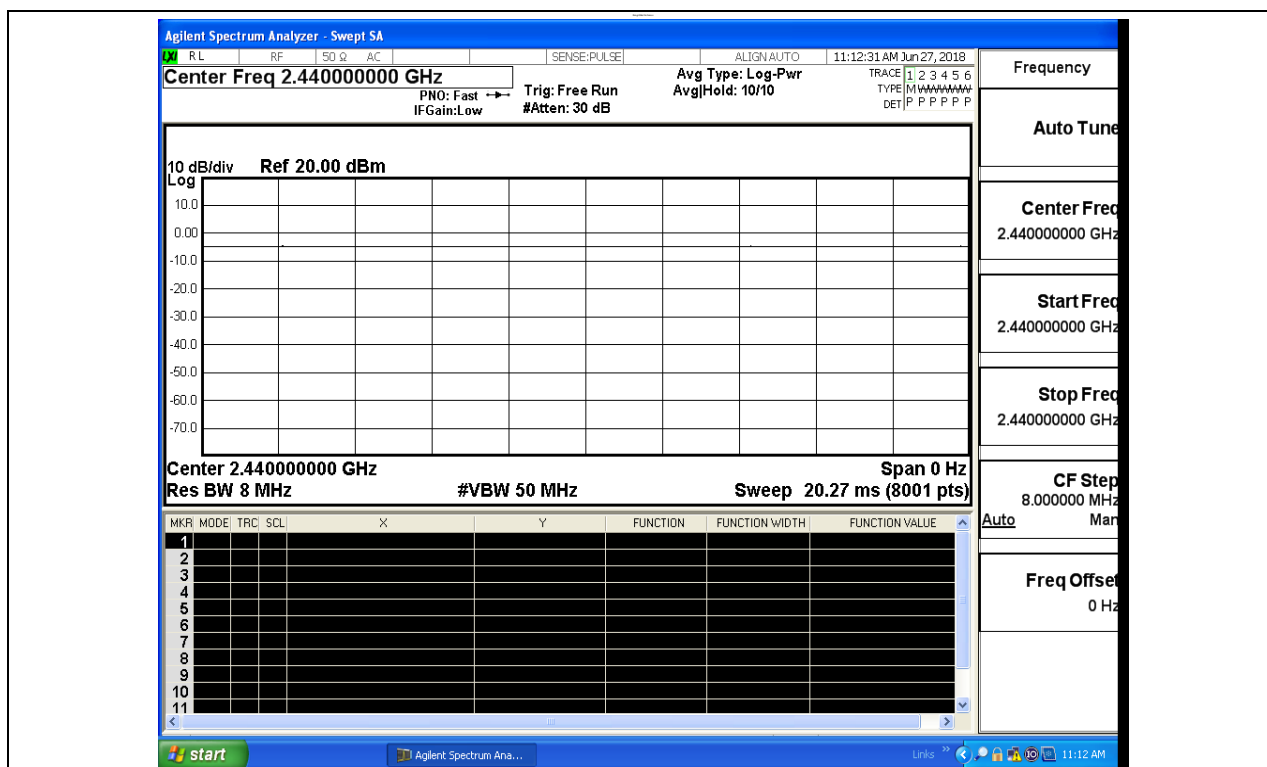
Test Model: BR-E1A

Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson.Hong
Supervised by:	Jayden.Zhuo

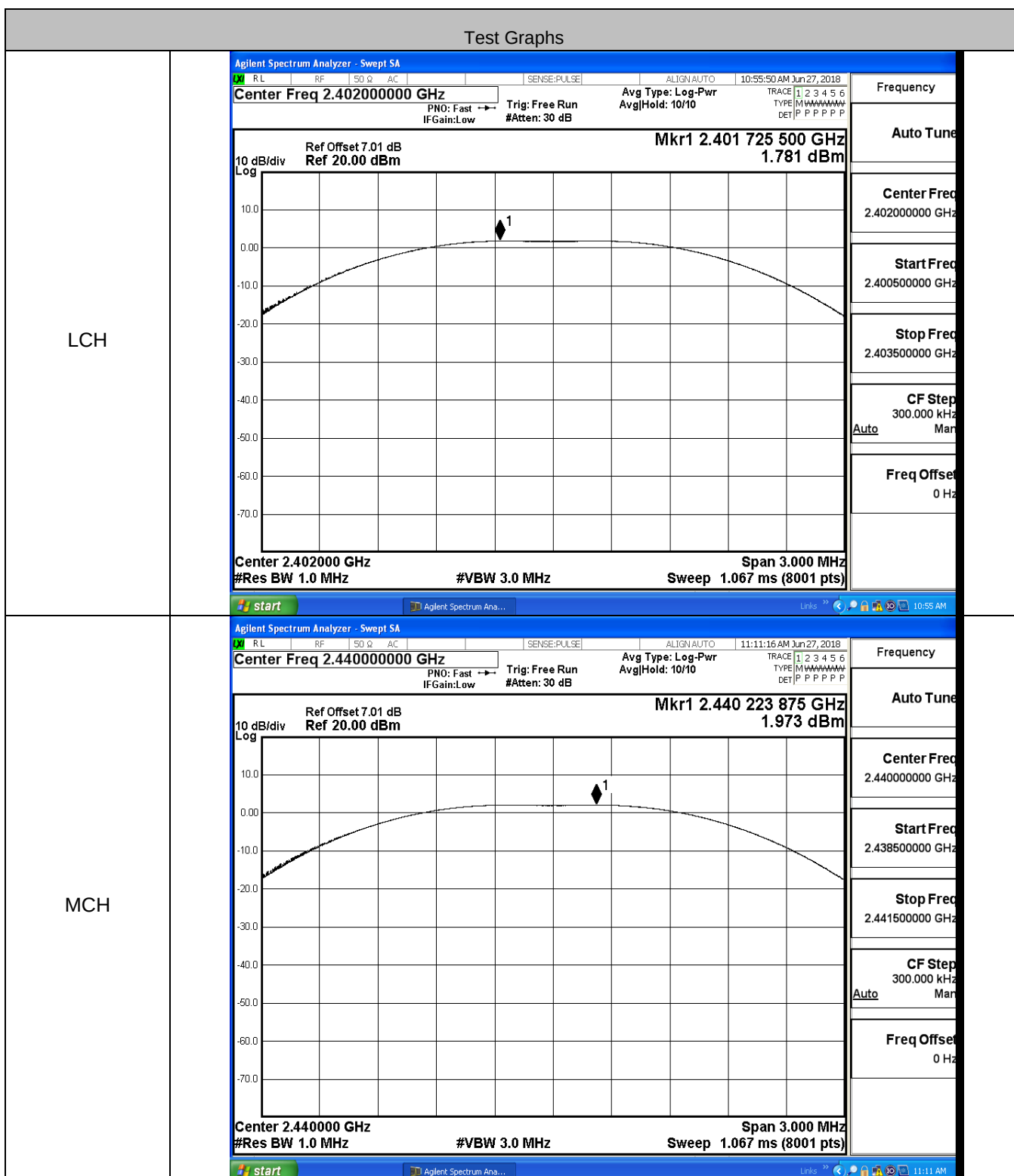
A.1 Duty Cycle

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

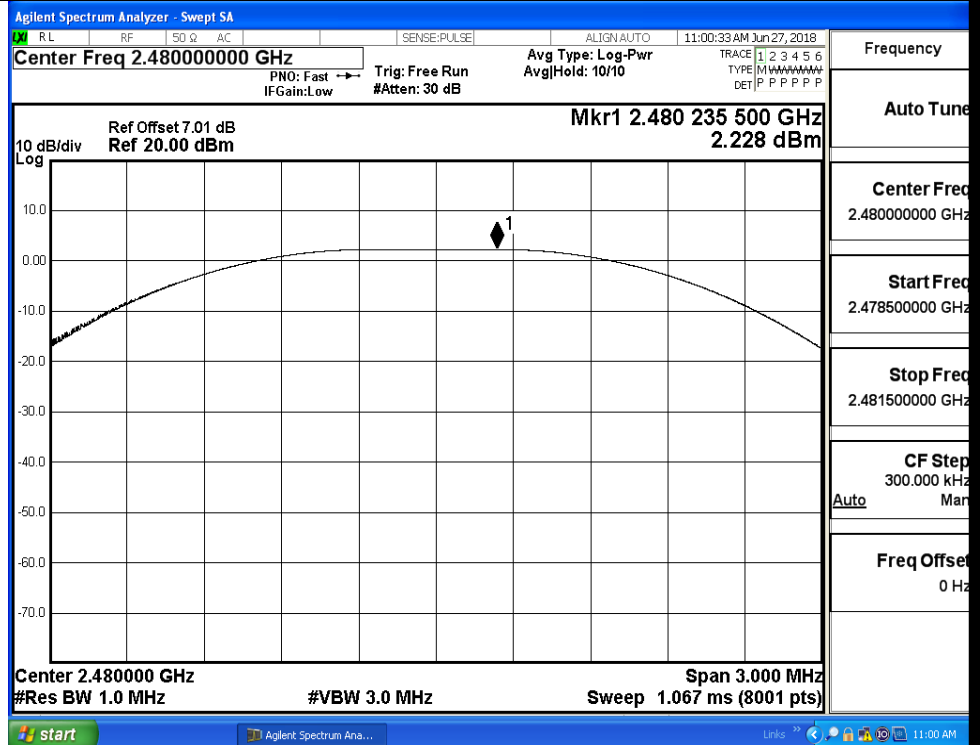


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.781	30	PASS
BT LE	MCH	1.973	30	PASS
BT LE	HCH	2.228	30	PASS



HCH

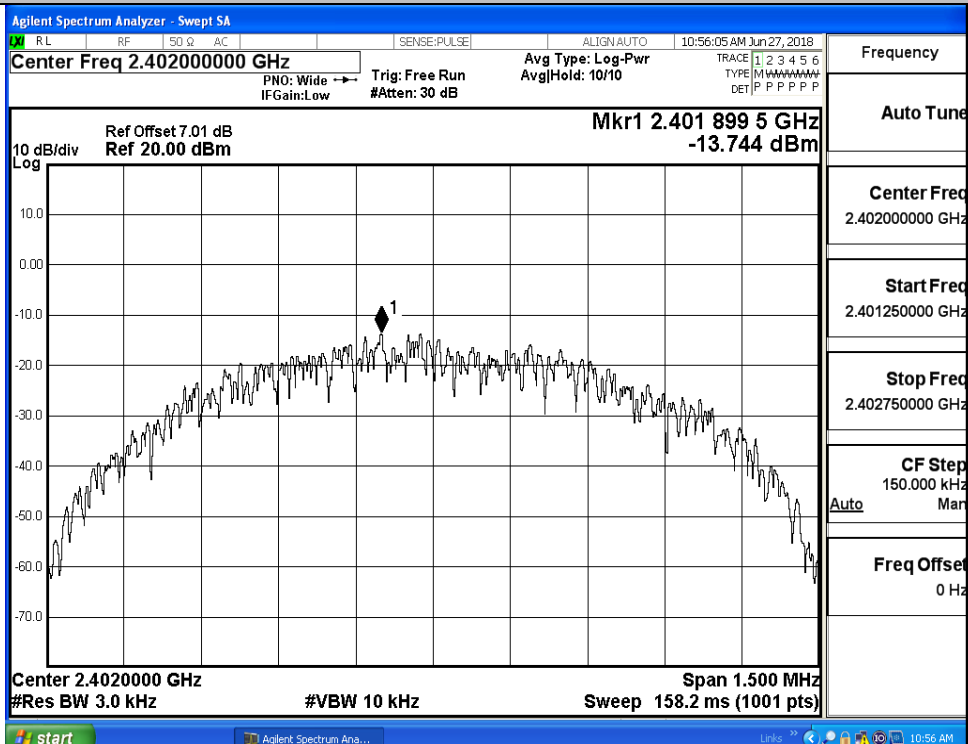


A.3 Maximum Power Spectral Density

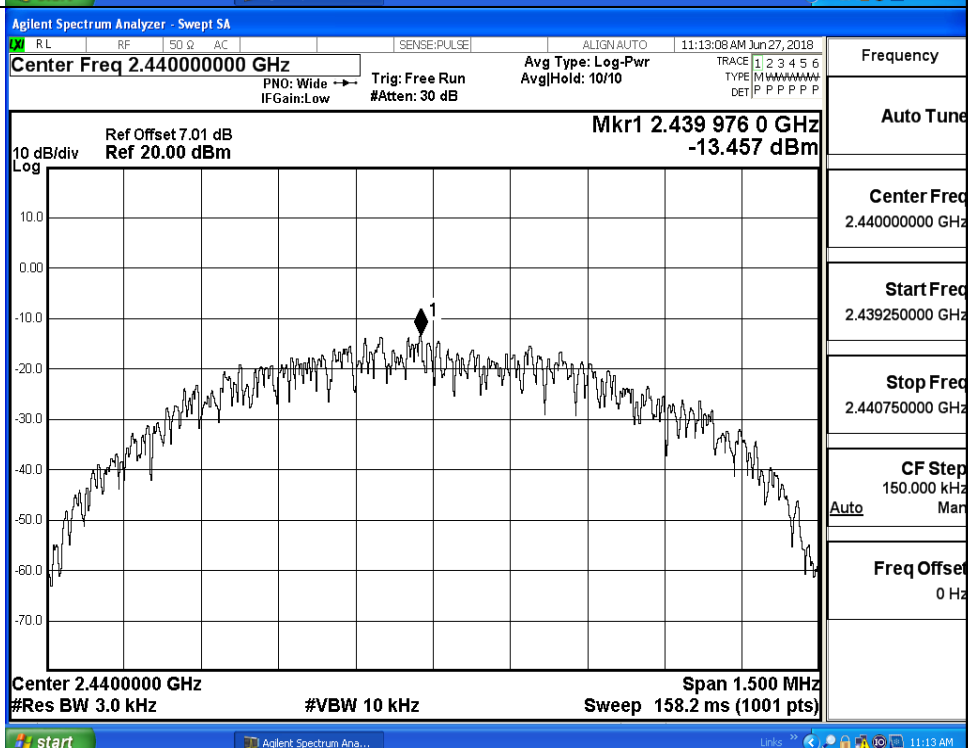
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.744	8	PASS
BT LE	MCH	-13.457	8	PASS
BT LE	HCH	-13.315	8	PASS

Test Graphs

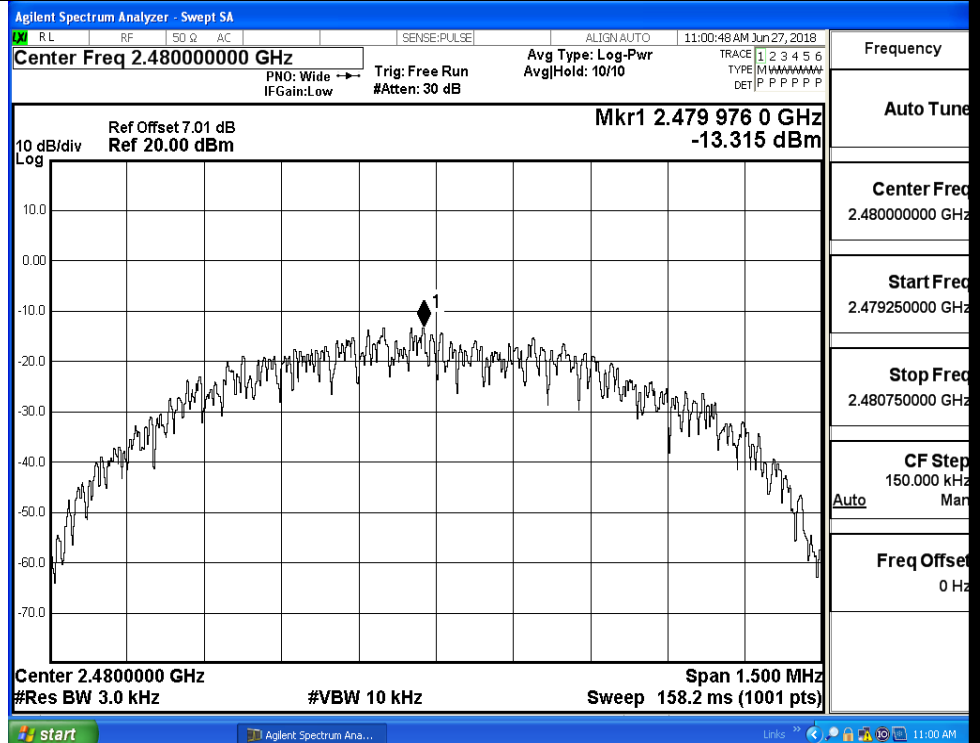
LCH



MCH



HCH

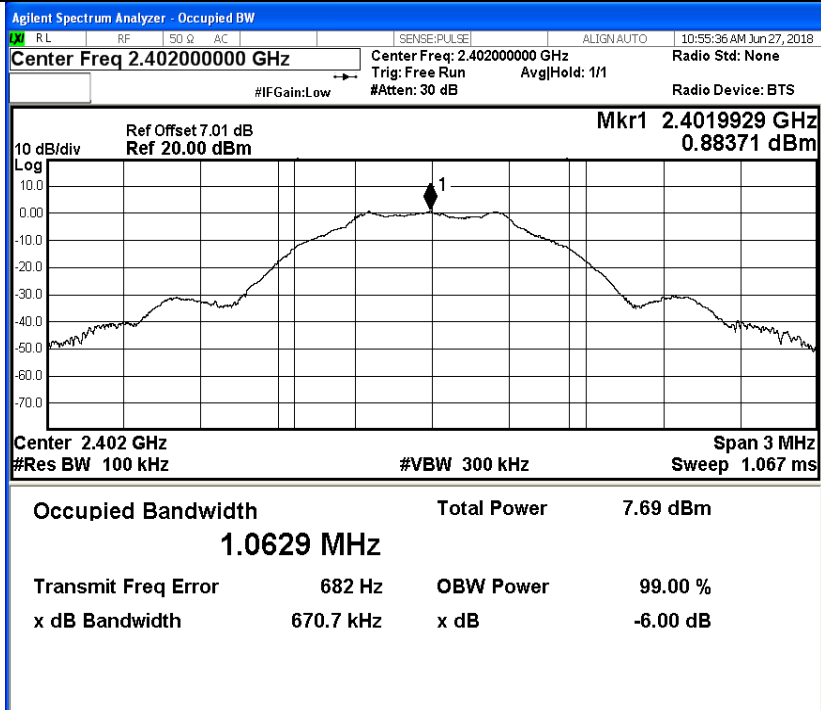


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6707	≥ 0.5	PASS
BT LE	MCH	0.7050	≥ 0.5	PASS
BT LE	HCH	0.7117	≥ 0.5	PASS

Test Graphs

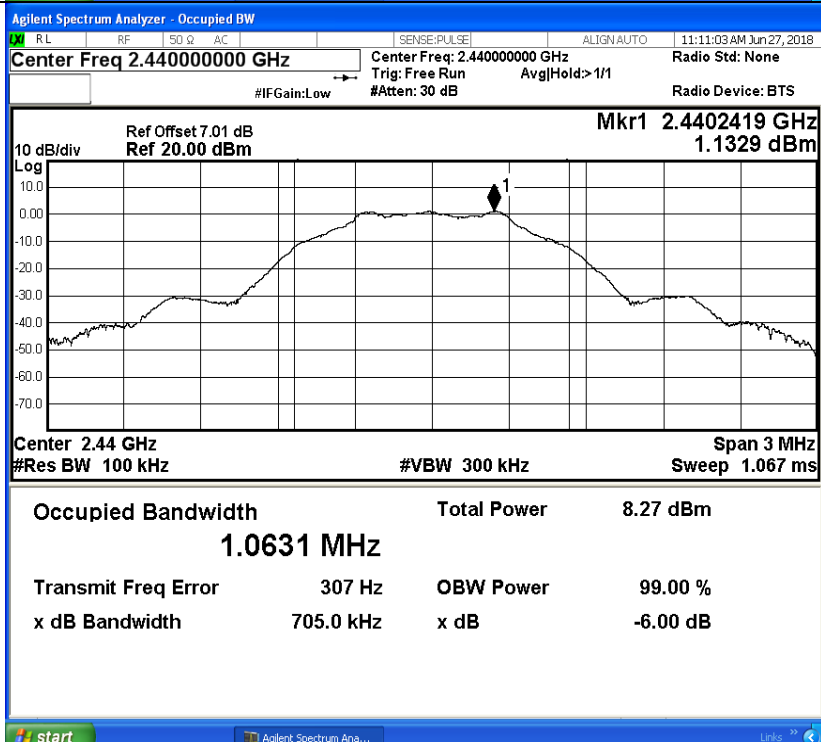
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
ManFreq Offset
0 Hz

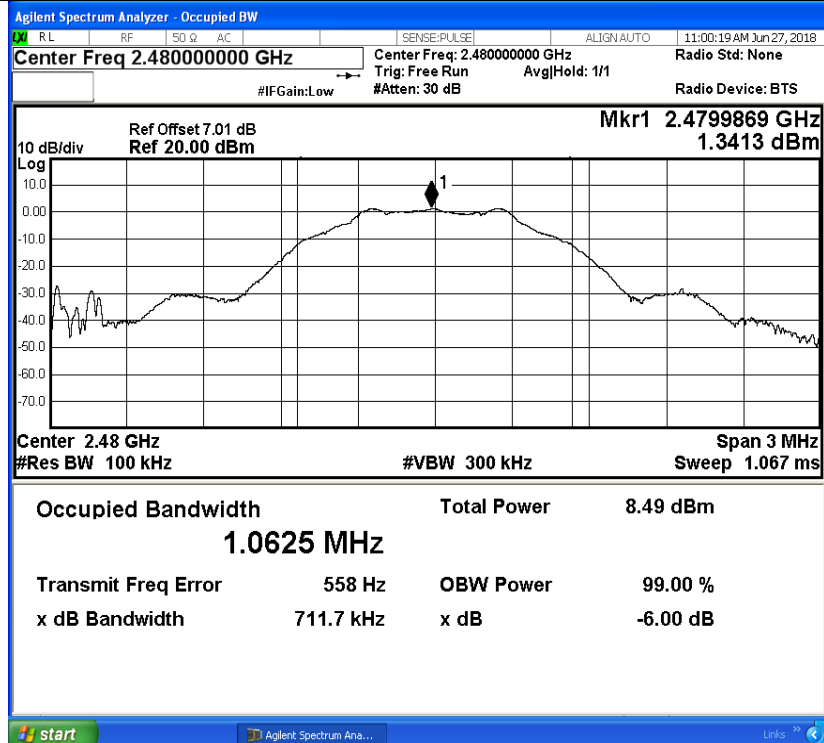
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
ManFreq Offset
0 Hz

HCH



Frequency

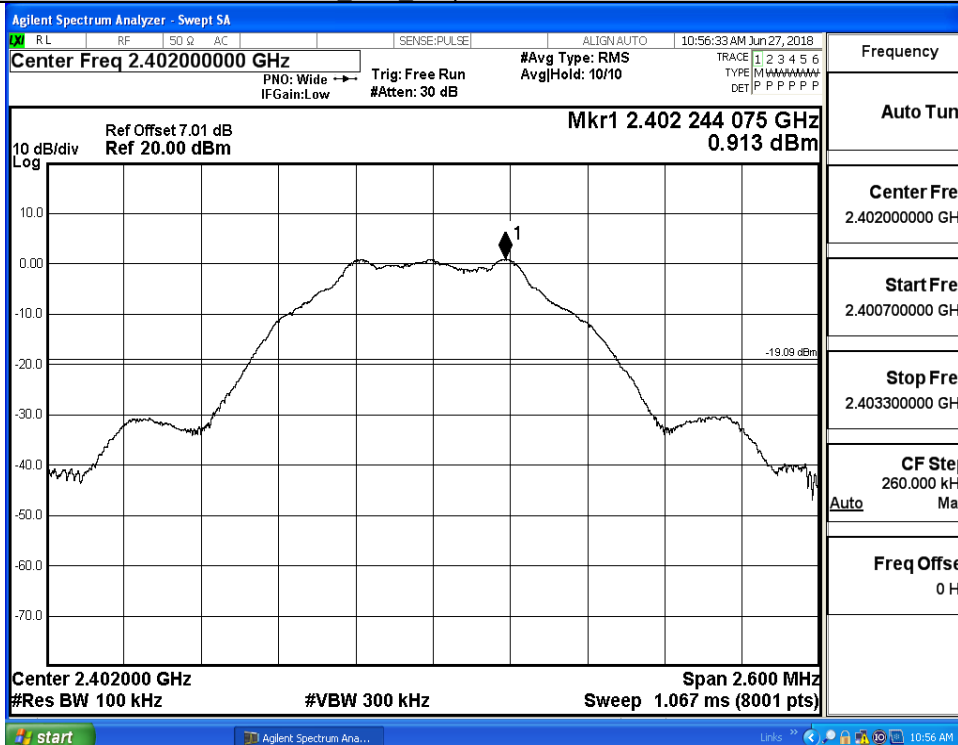
Center Freq
2.480000000 GHzCF Step
300.000 kHz
ManFreq Offset
0 Hz

B.5 RF Conducted Spurious Emissions

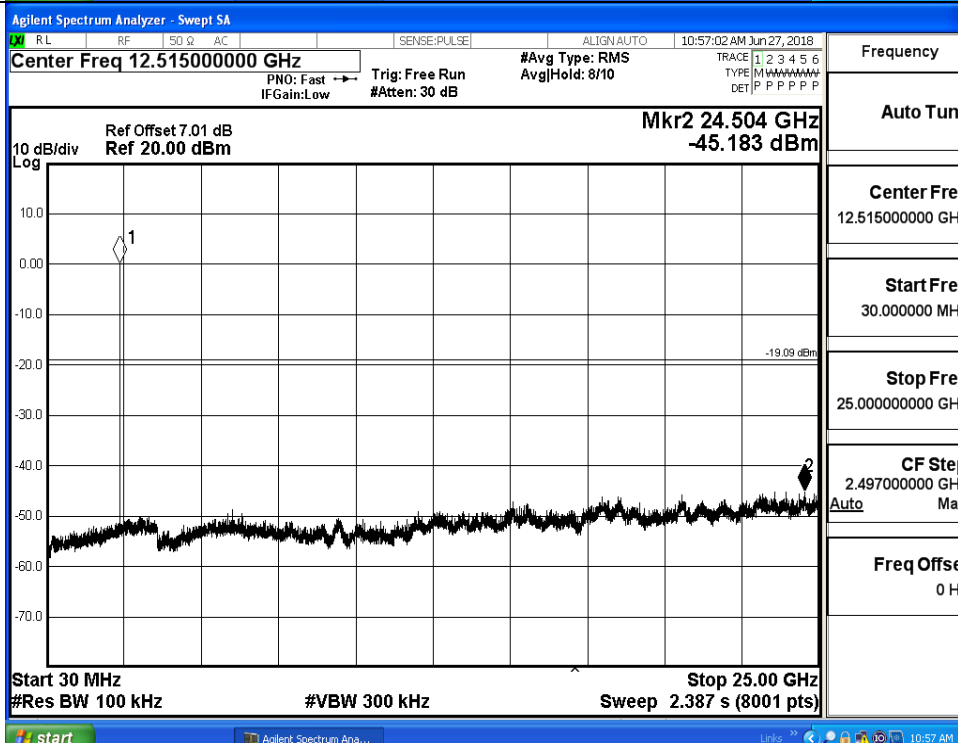
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.913	-45.183	-19.087	PASS
BT LE	MCH	1.199	-44.647	-18.801	PASS
BT LE	HCH	1.338	-44.519	-18.662	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

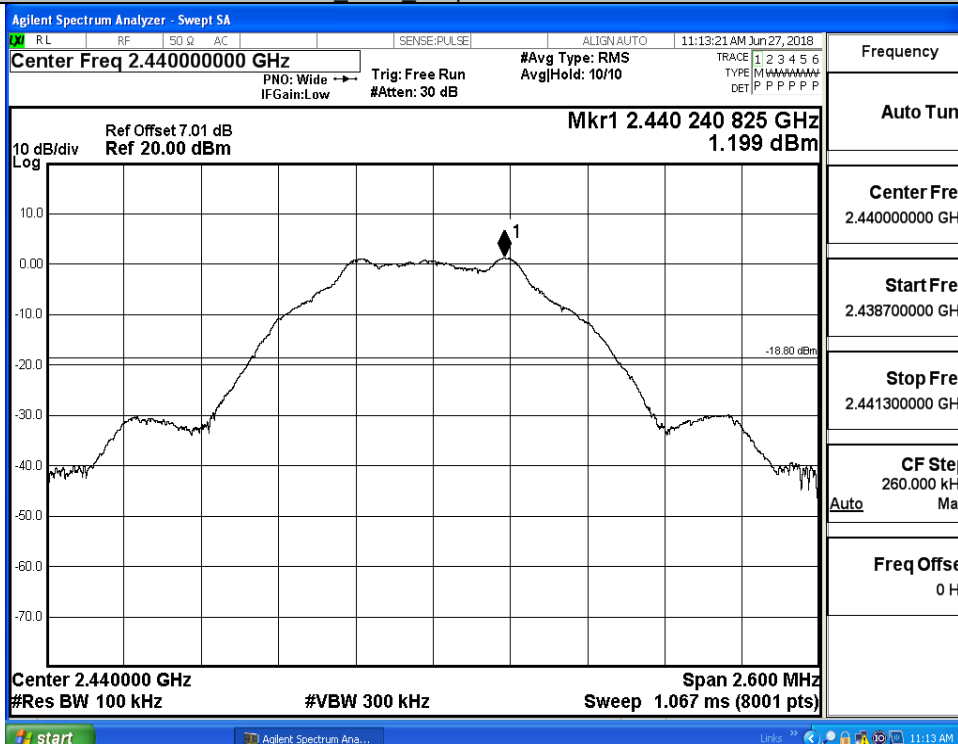


Puw/BT LE/LCH

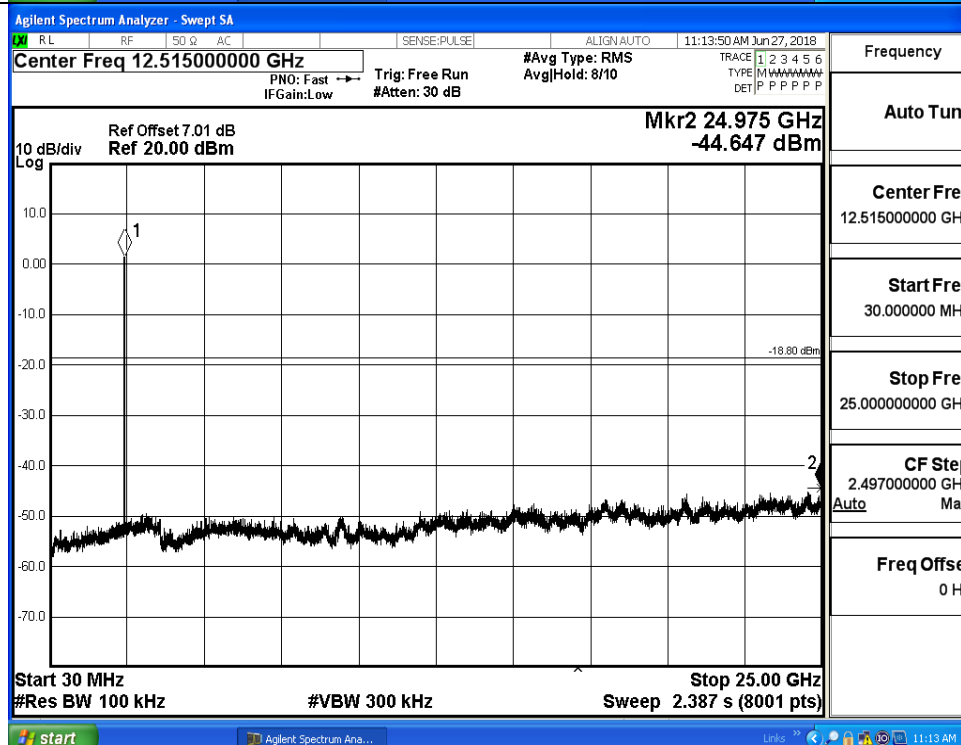


BT LE MCH Graphs

Pref/BT LE/MCH

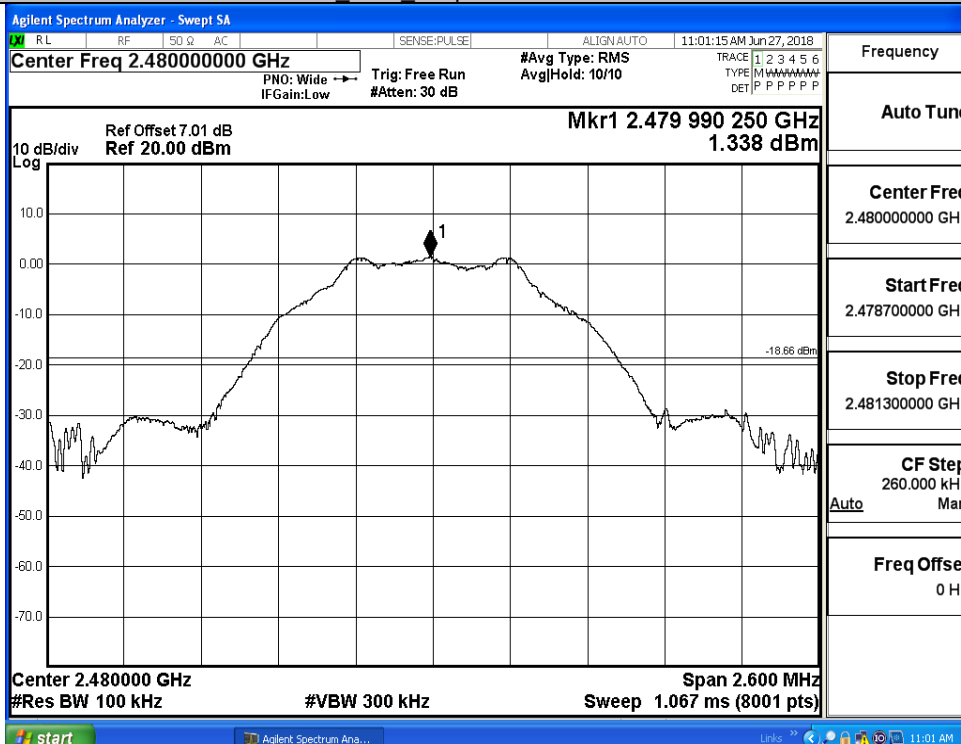


Puw/BT LE/MCH

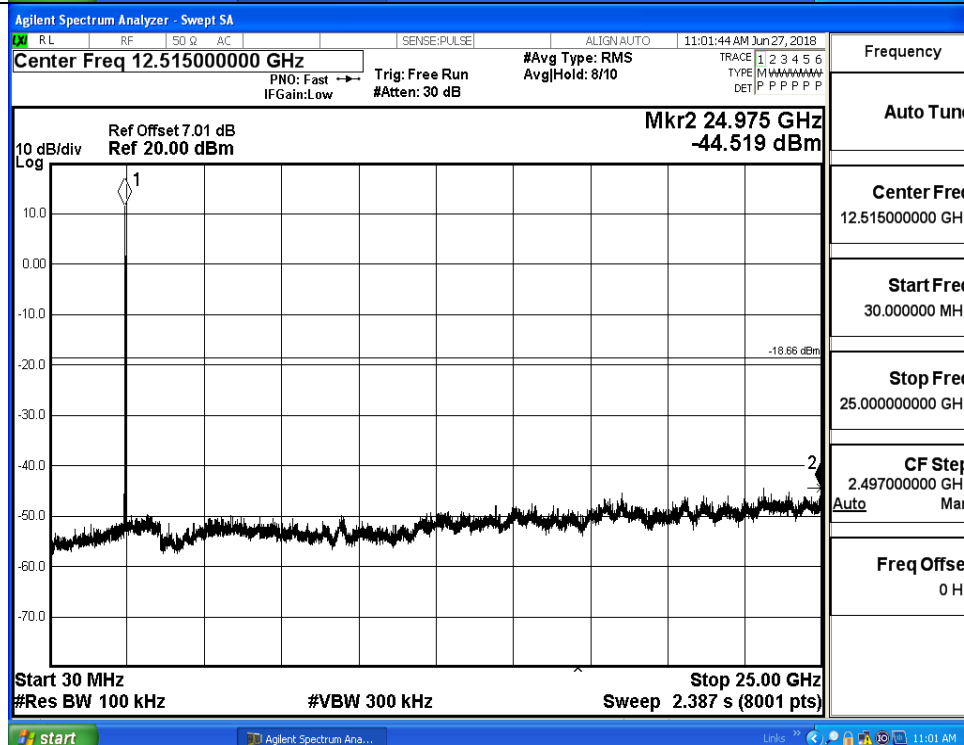


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

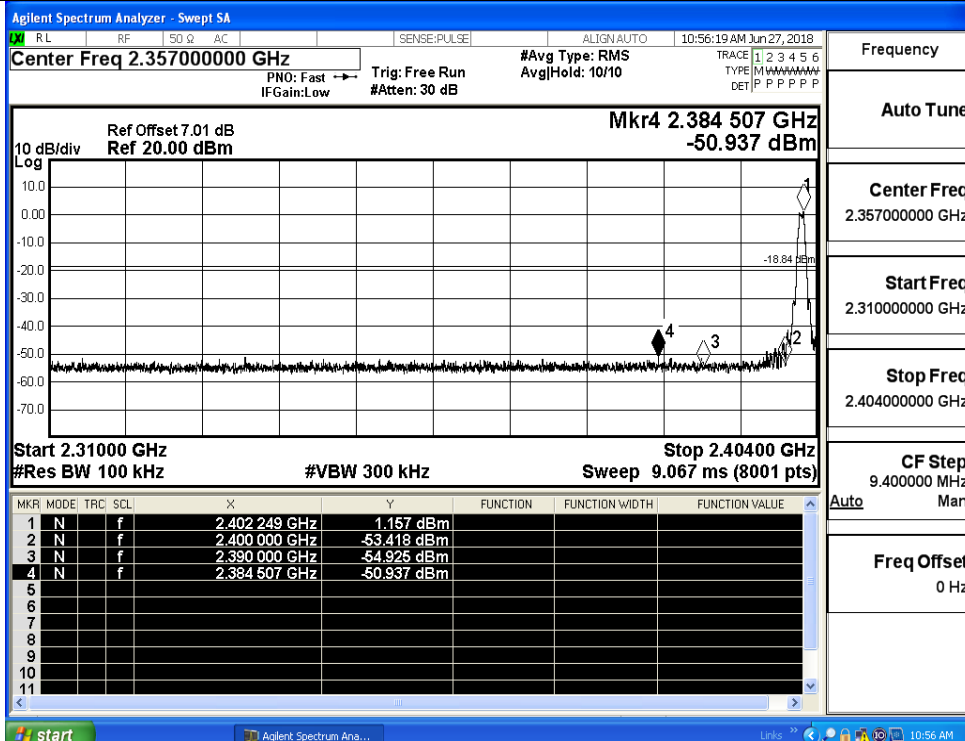


B.6 Band-edge for RF Conducted Emissions

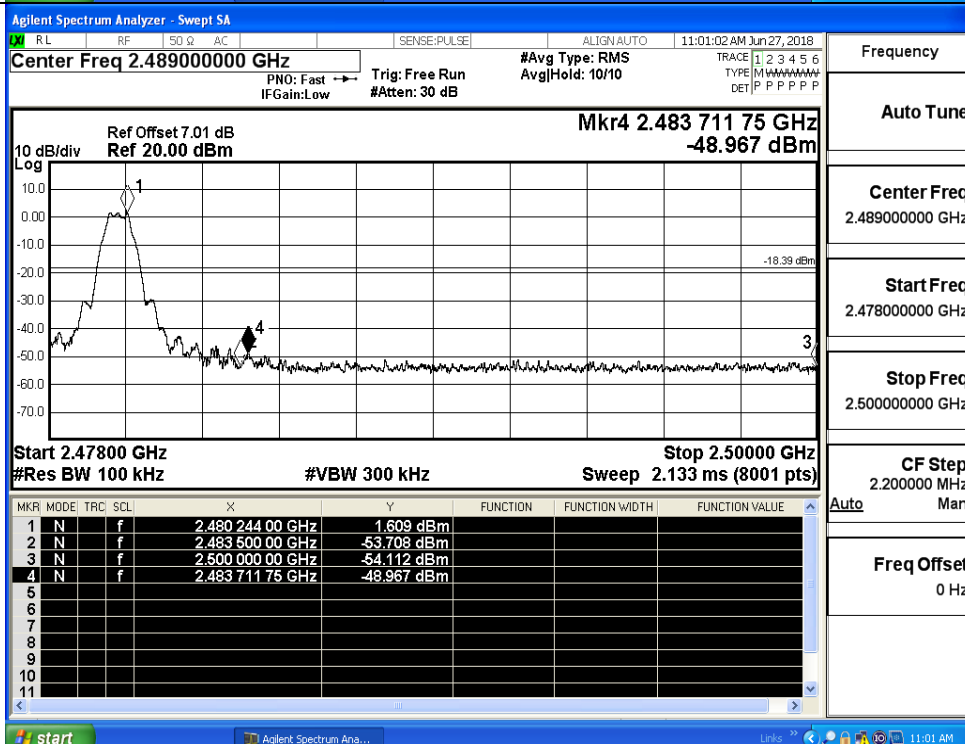
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.157	-50.937	-18.84	PASS
BT LE	HCH	1.609	-48.967	-18.39	PASS

Test Graphs

LCH



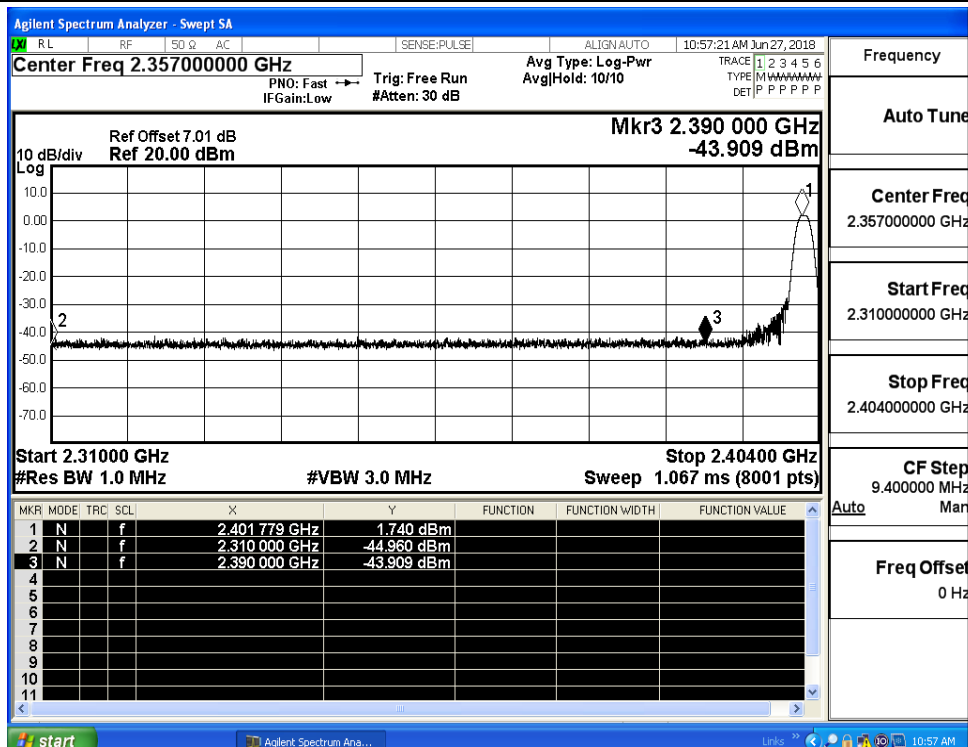
HCH



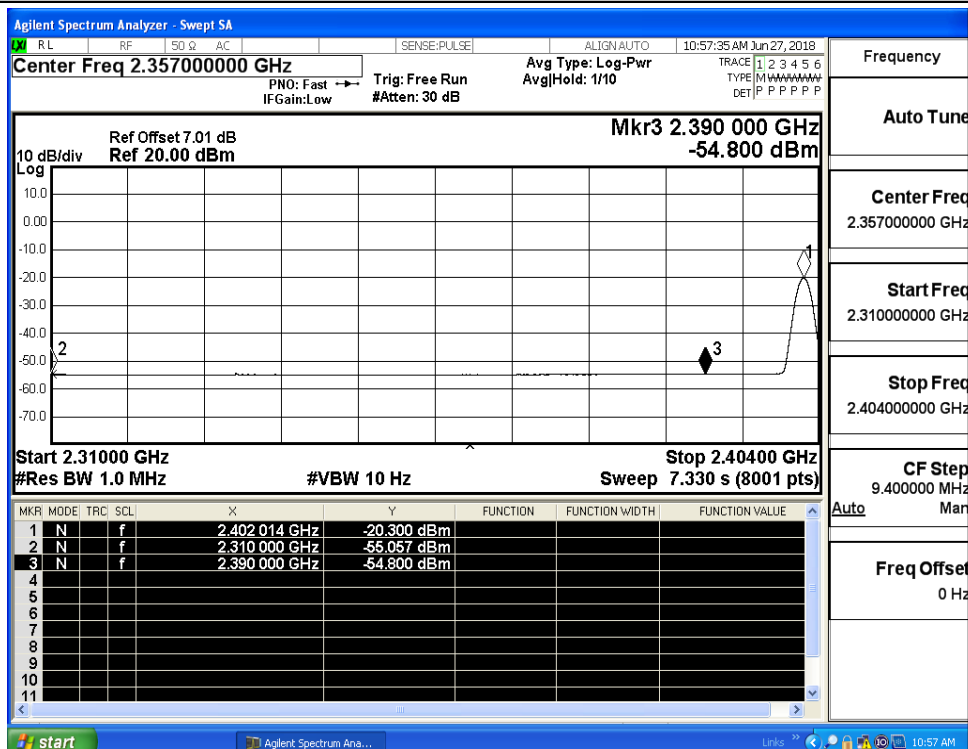
B.7 Restrict-band band-edge measurements

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	-44.96	2.2	0	52.50	PEAK	74	PASS
		Ant1	2310.0	-55.06	2.2	0	42.40	AV	54	PASS
		Ant1	2390.0	-43.91	2.2	0	53.55	PEAK	74	PASS
		Ant1	2390.0	-54.80	2.2	0	42.66	AV	54	PASS
	2480	Ant1	2483.5	-36.36	2.2	0	61.10	PEAK	74	PASS
		Ant1	2483.5	-54.44	2.2	0	43.02	AV	54	PASS
		Ant1	2500.0	-43.90	2.2	0	53.56	PEAK	74	PASS
		Ant1	2500.0	-54.39	2.2	0	43.07	AV	54	PASS

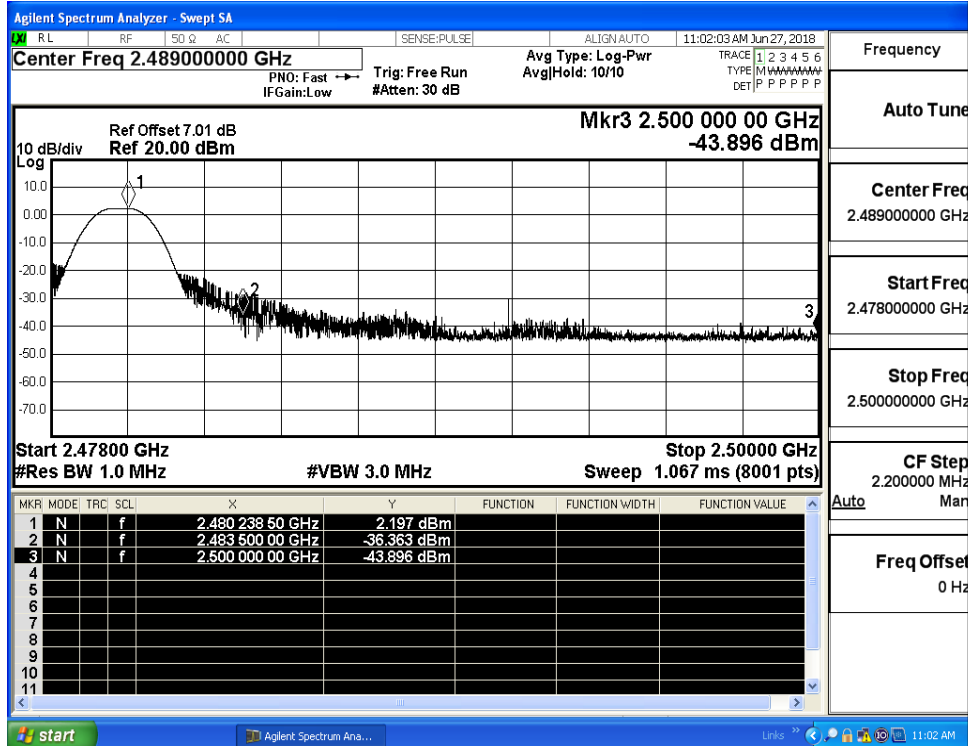
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

