

Appendix B

RF Test Data for BT V4.0(BT LE) (Conducted Measurement)

Product Name: Sirius A

Trade Mark: OCKEL

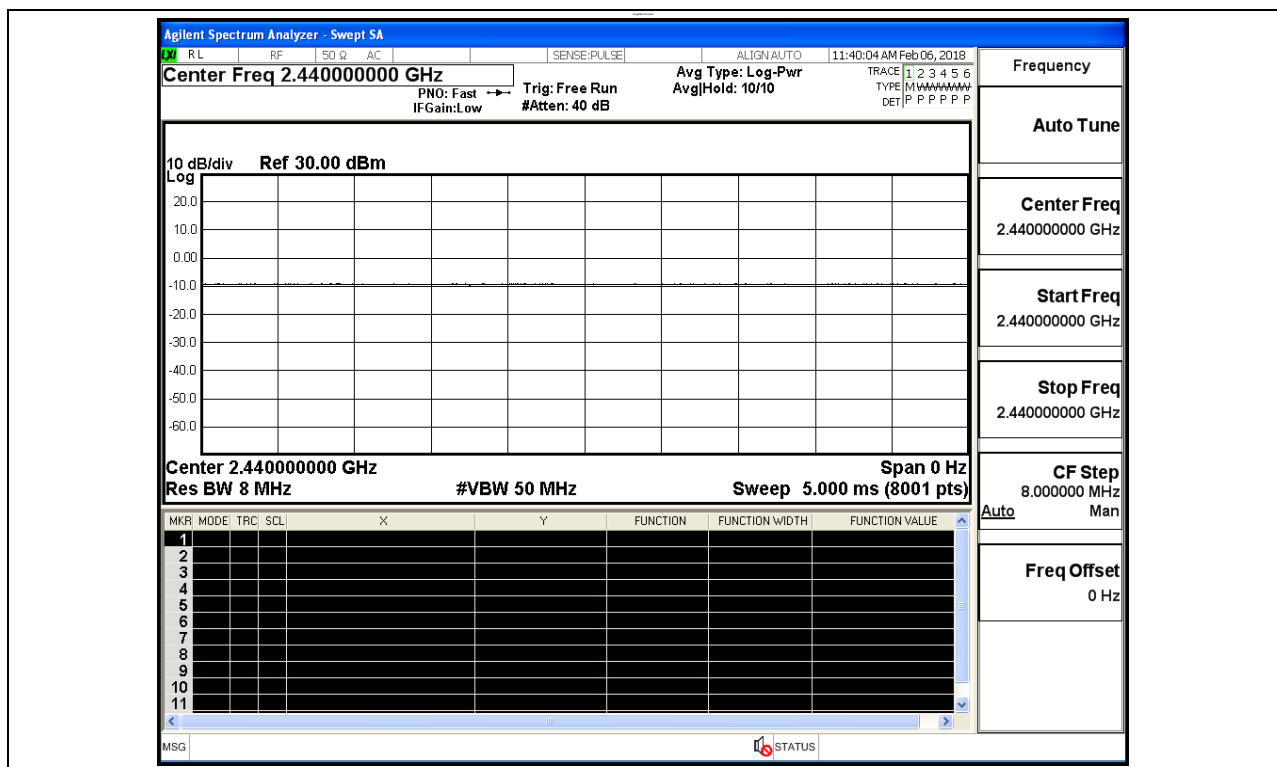
Test Model: OCSA-0812

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

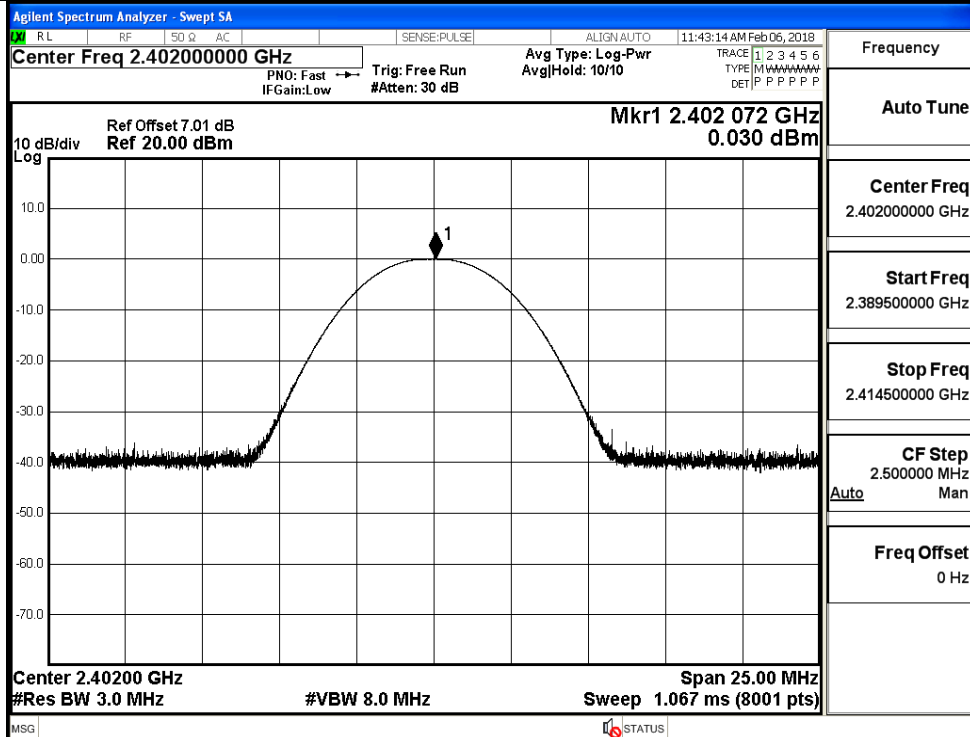


B.2 Maximum Conducted Peak Output Power

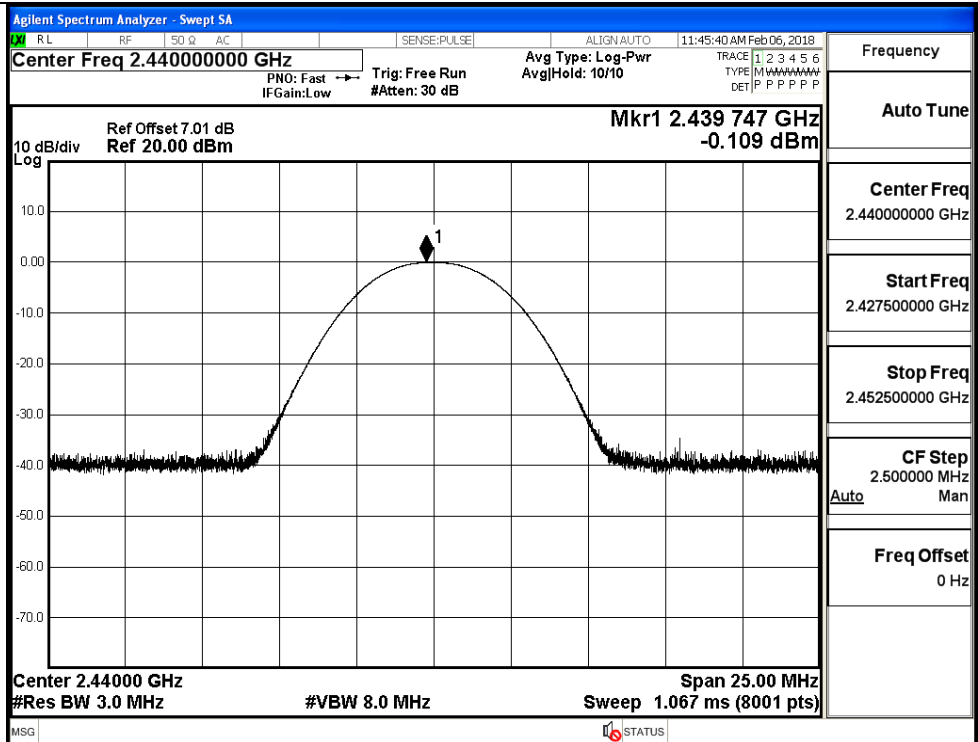
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.030	30	PASS
BT LE	MCH	-0.109	30	PASS
BT LE	HCH	-0.135	30	PASS

Test Graphs

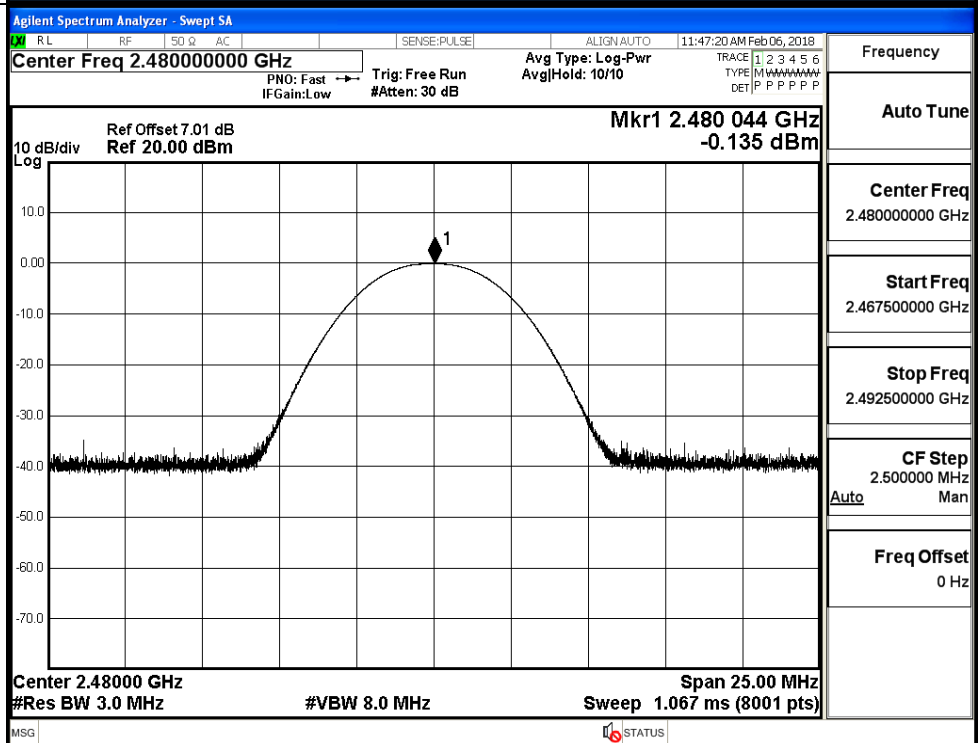
LCH



MCH



HCH

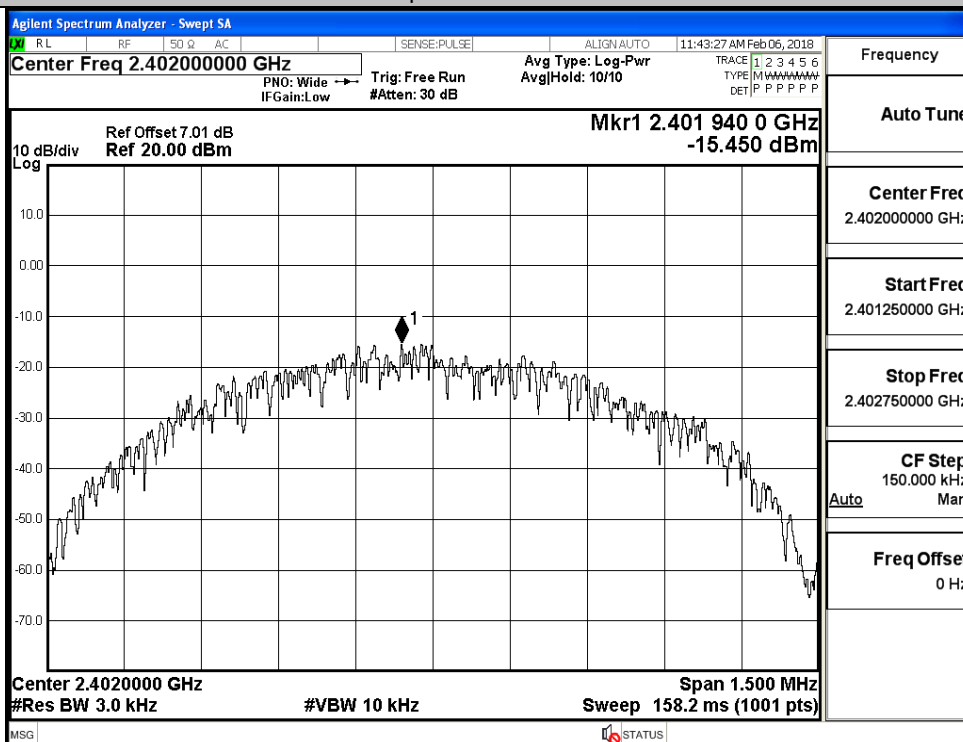


B.3 Maximum Power Spectral Density

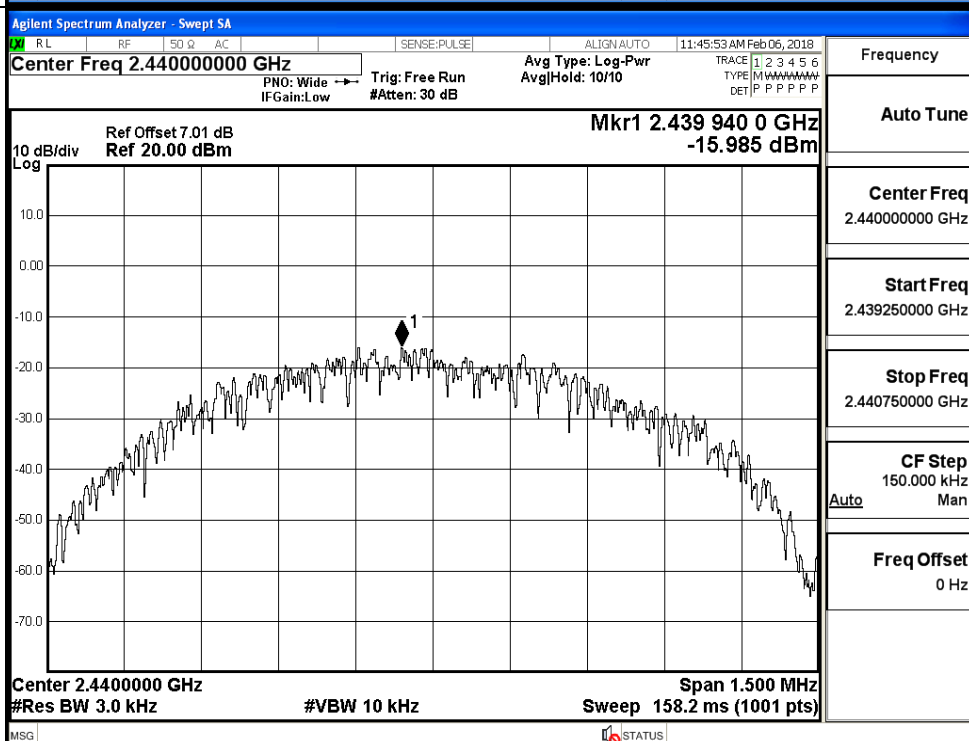
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.450	8	PASS
BT LE	MCH	-15.985	8	PASS
BT LE	HCH	-15.749	8	PASS

Test Graphs

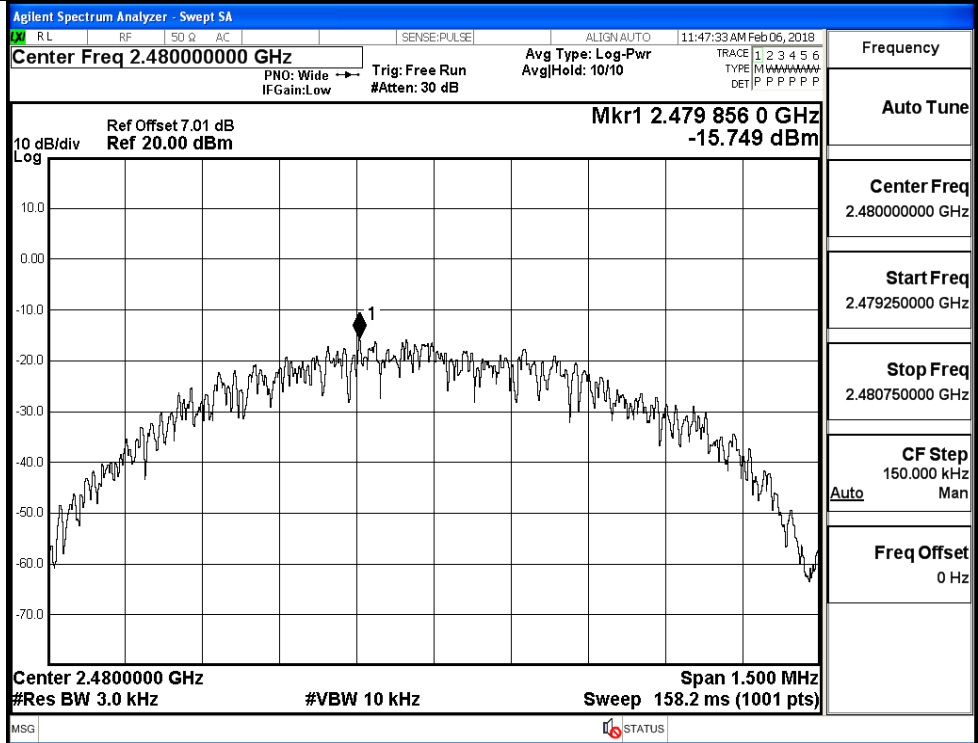
LCH



MCH



HCH

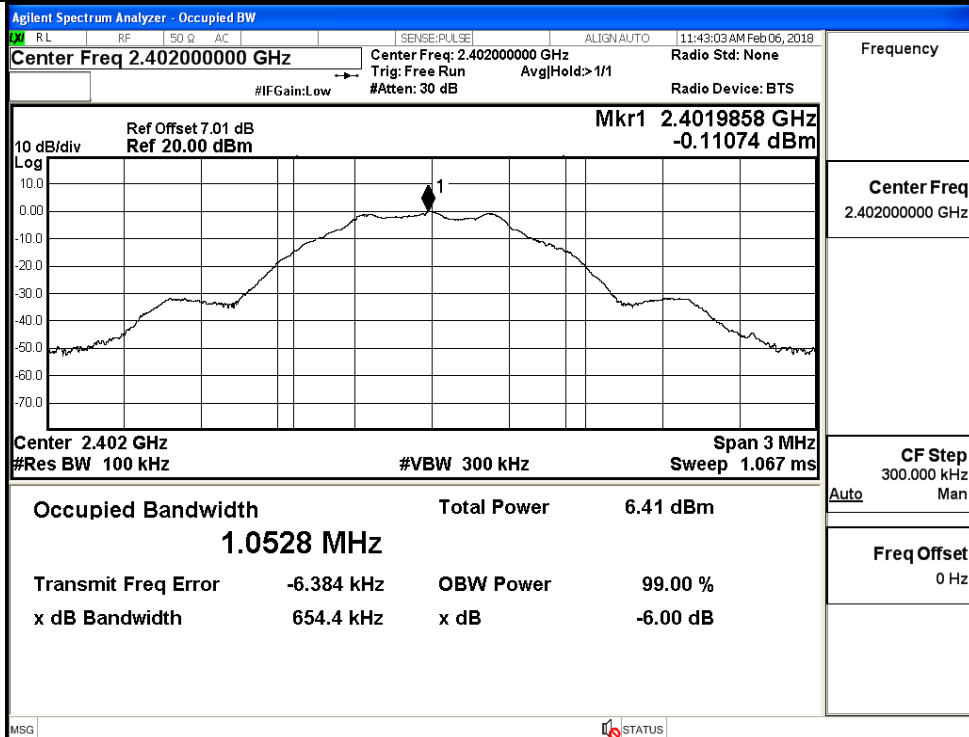


B.4 6dB Bandwidth

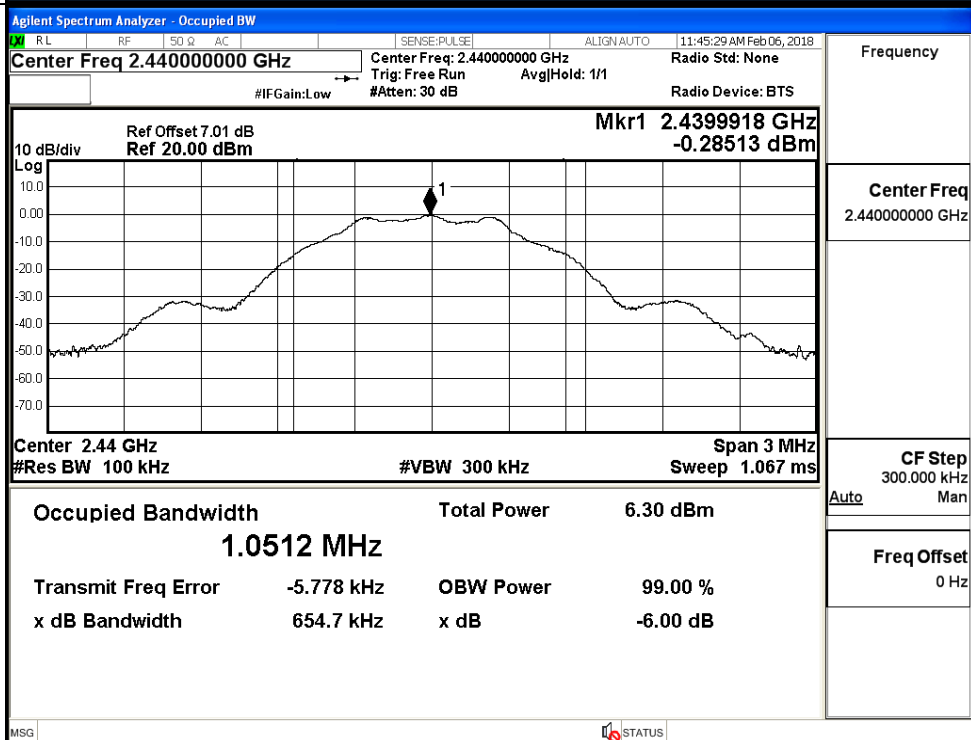
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6544	≥ 0.5	PASS
BT LE	MCH	0.6547	≥ 0.5	PASS
BT LE	HCH	0.6658	≥ 0.5	PASS

Test Graphs

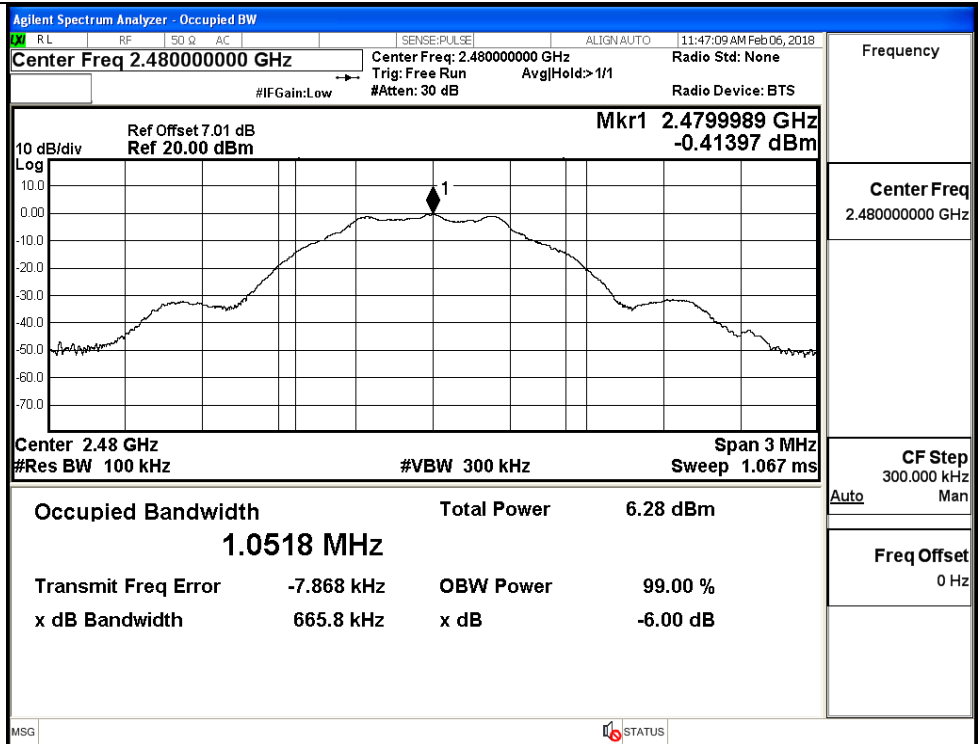
LCH



MCH



HCH

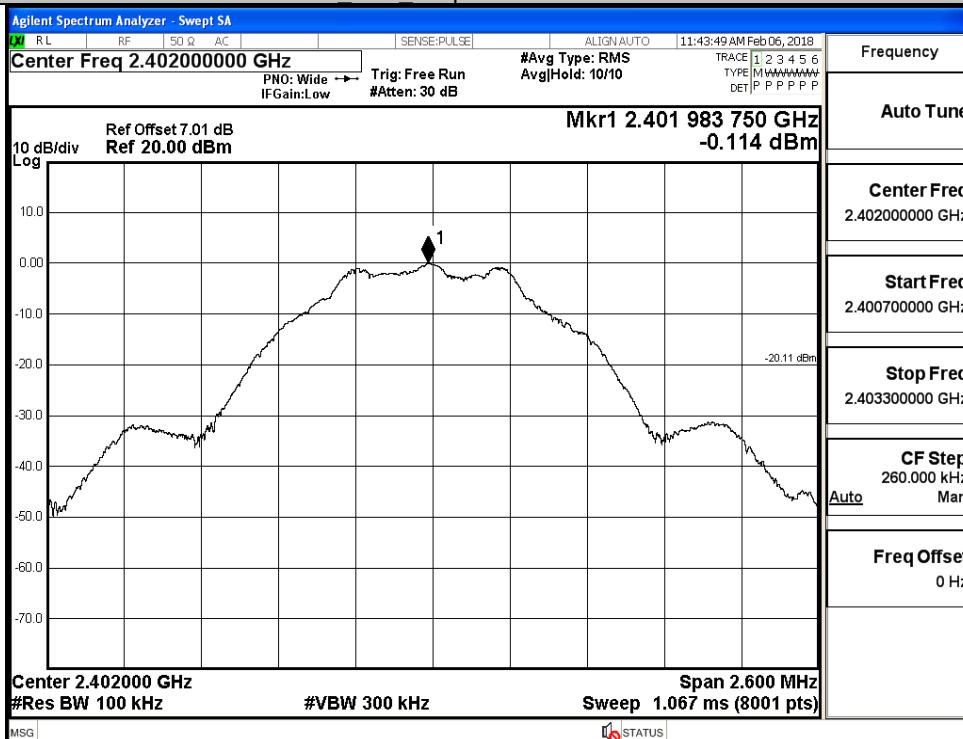


B.5 RF Conducted Spurious Emissions

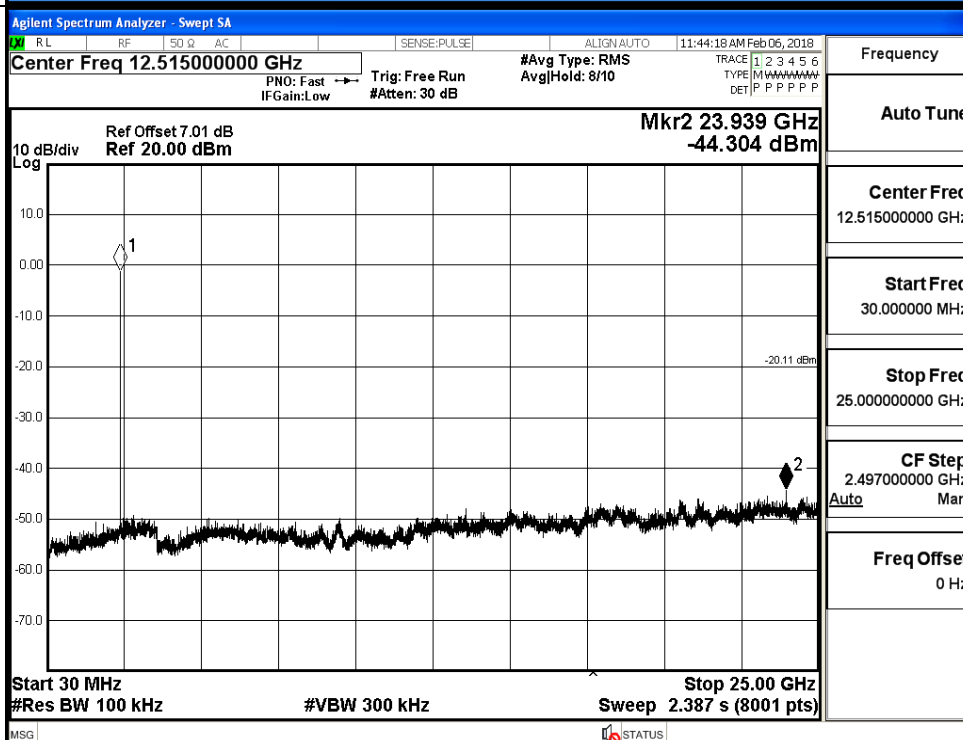
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.114	-44.304	-20.114	PASS
BT LE	MCH	-0.248	-44.859	-20.248	PASS
BT LE	HCH	-0.299	-45.271	-20.299	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

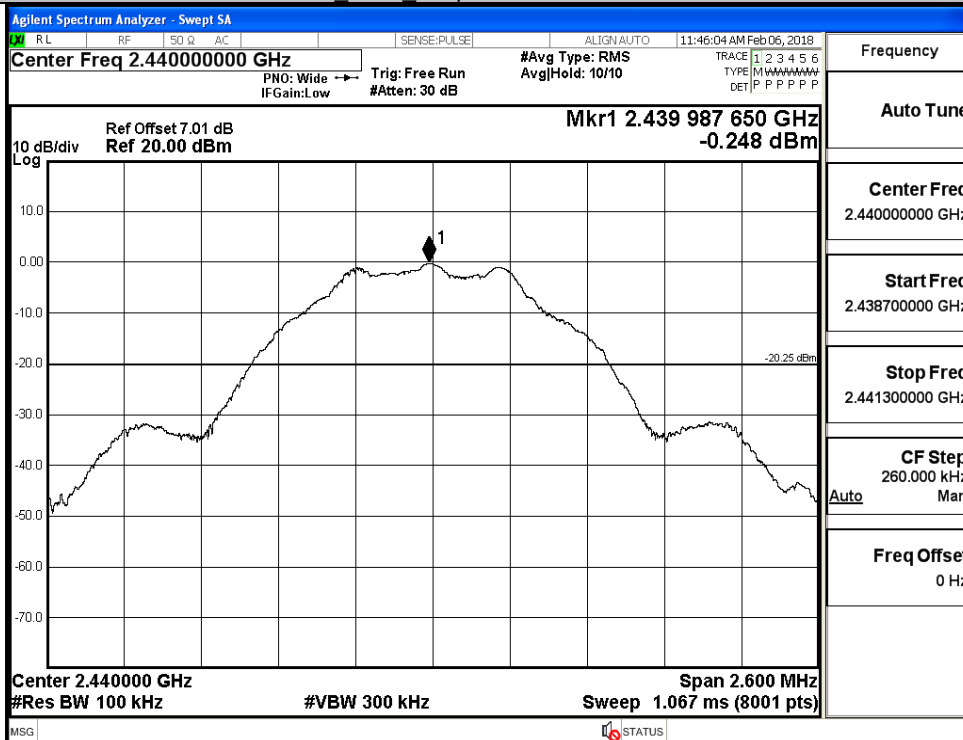


Puw/BT LE/LCH

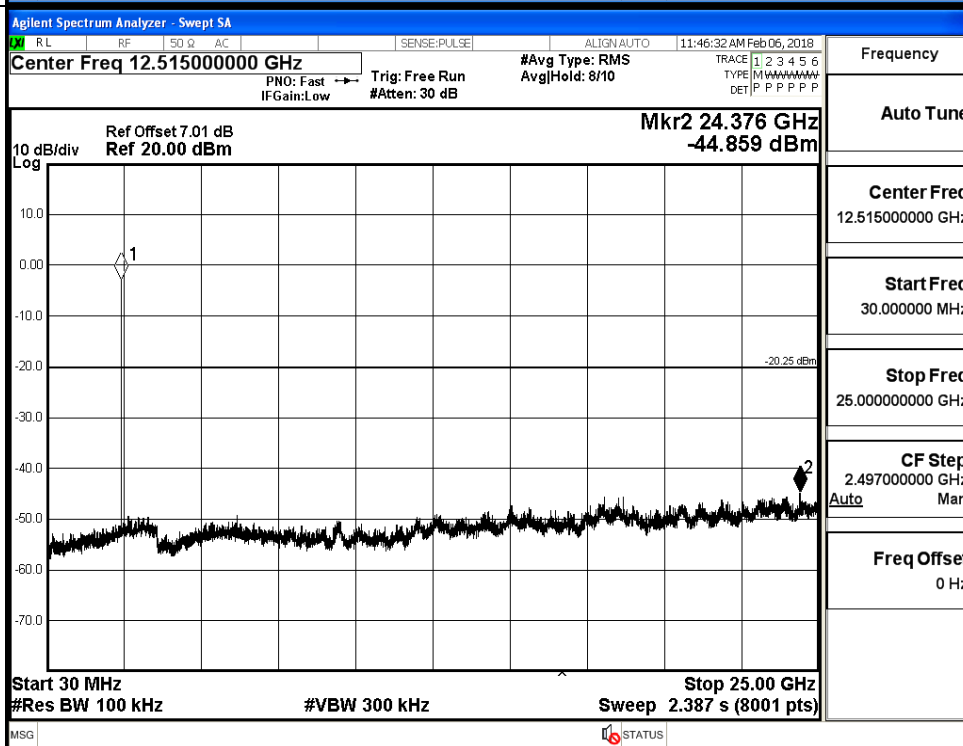


BT LE MCH Graphs

Pref/BT LE/MCH

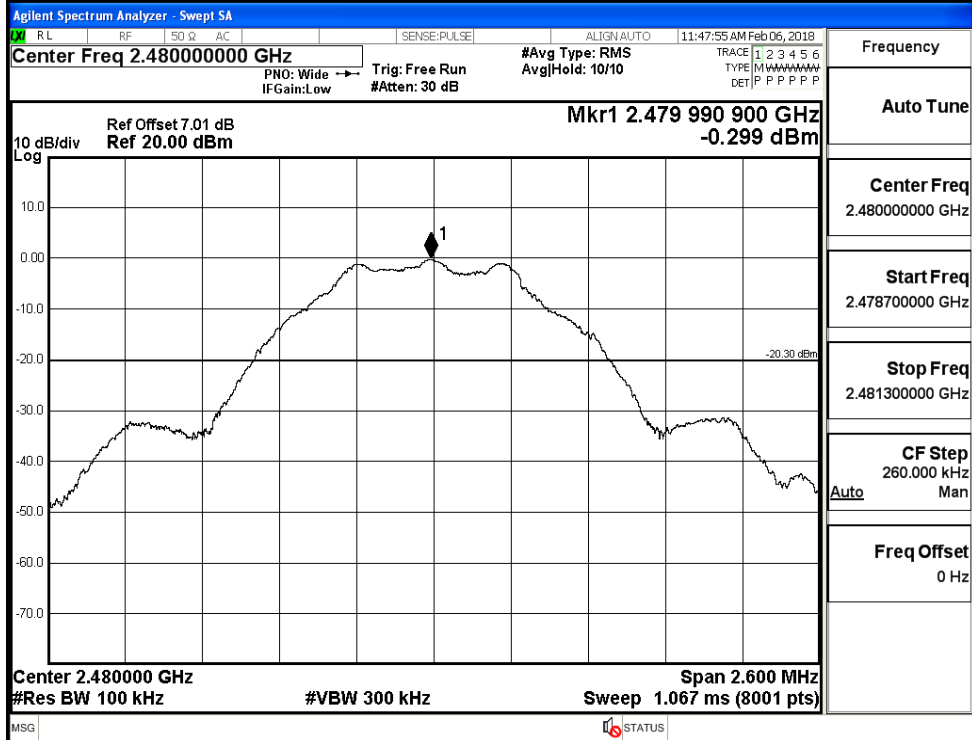


Puw/BT LE/MCH

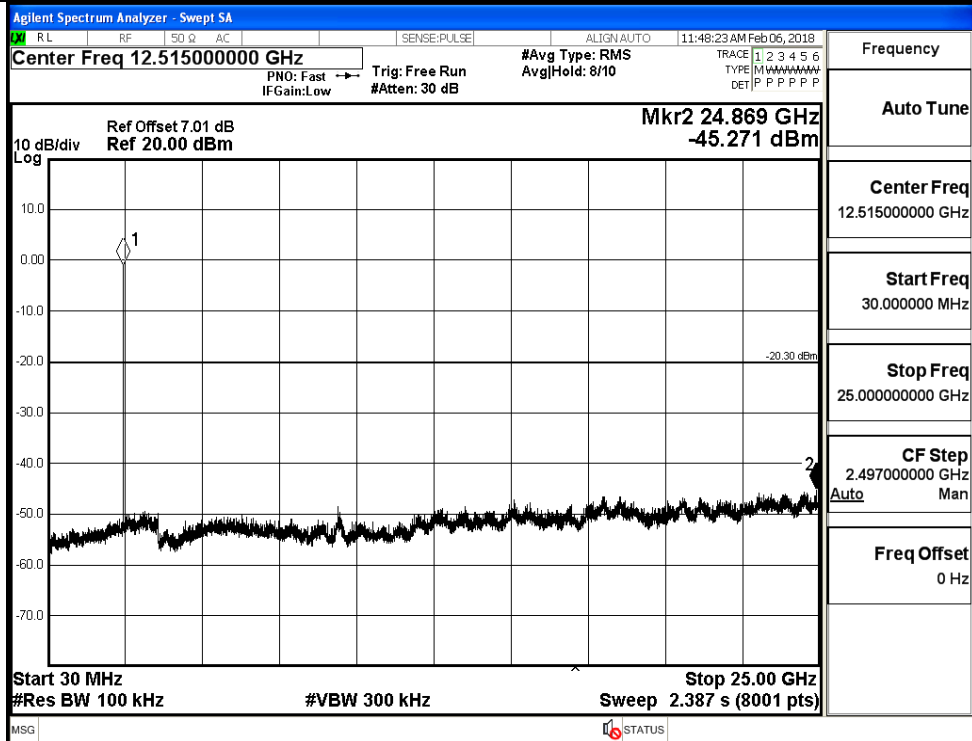


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

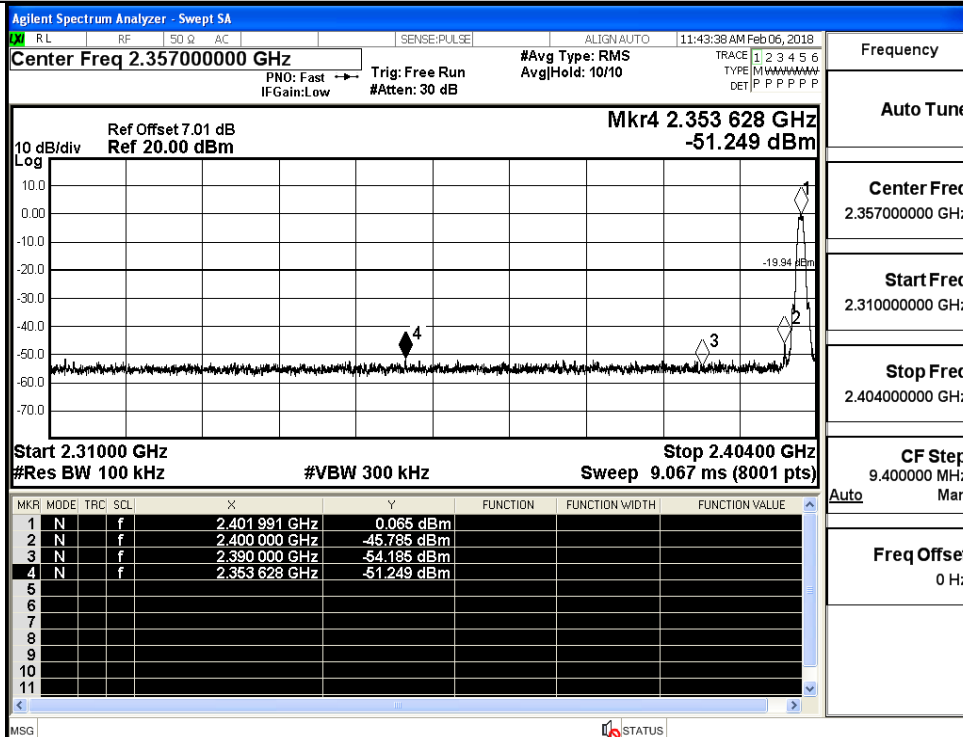


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.065	-51.249	-19.94	PASS
BT LE	HCH	-0.084	-42.644	-20.08	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

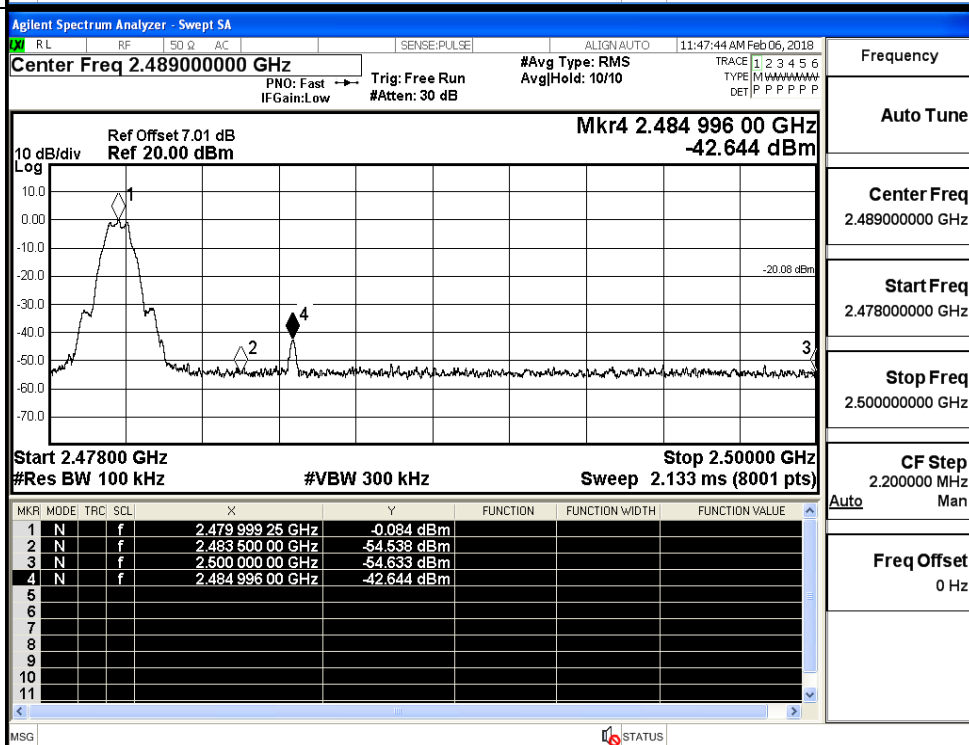
9.400000 MHz

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

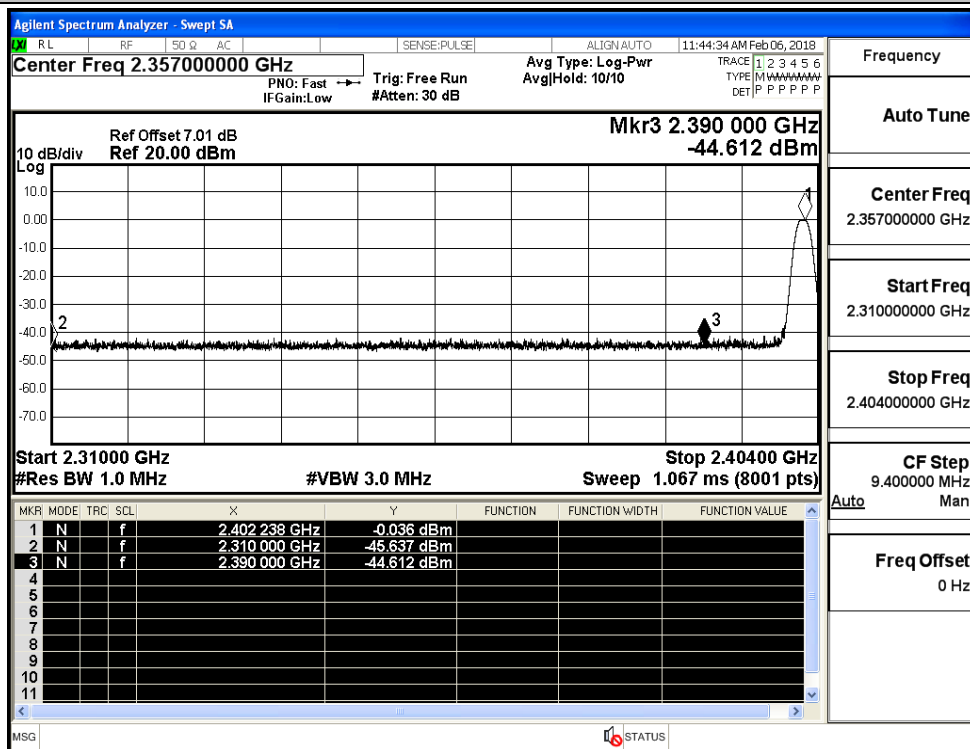
Freq Offset

0 Hz

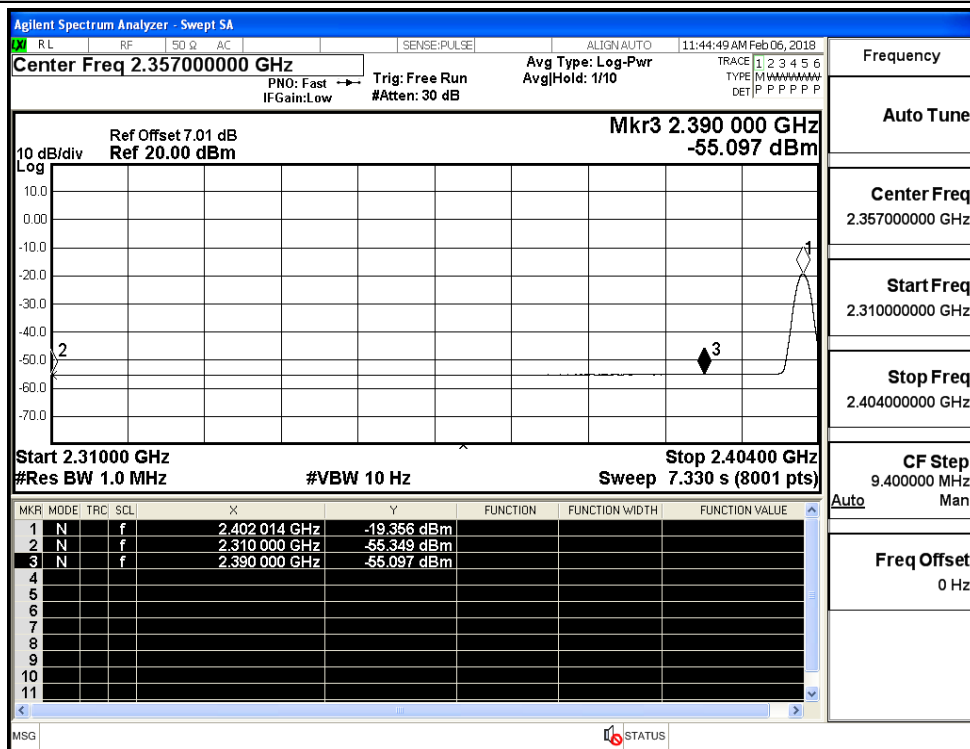
B.7 Restrict-band band-edge measurements

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	-45.64	3.0	0	52.62	PEAK	74	PASS
		Ant1	2310.0	-55.35	3.0	0	42.91	AV	54	PASS
		Ant1	2390.0	-44.61	3.0	0	53.65	PEAK	74	PASS
		Ant1	2390.0	-55.10	3.0	0	43.16	AV	54	PASS
	2480	Ant1	2483.5	-44.69	3.0	0	53.57	PEAK	74	PASS
		Ant1	2483.5	-54.69	3.0	0	43.57	AV	54	PASS
		Ant1	2500.0	-43.77	3.0	0	54.49	PEAK	74	PASS
		Ant1	2500.0	-54.65	3.0	0	43.61	AV	54	PASS

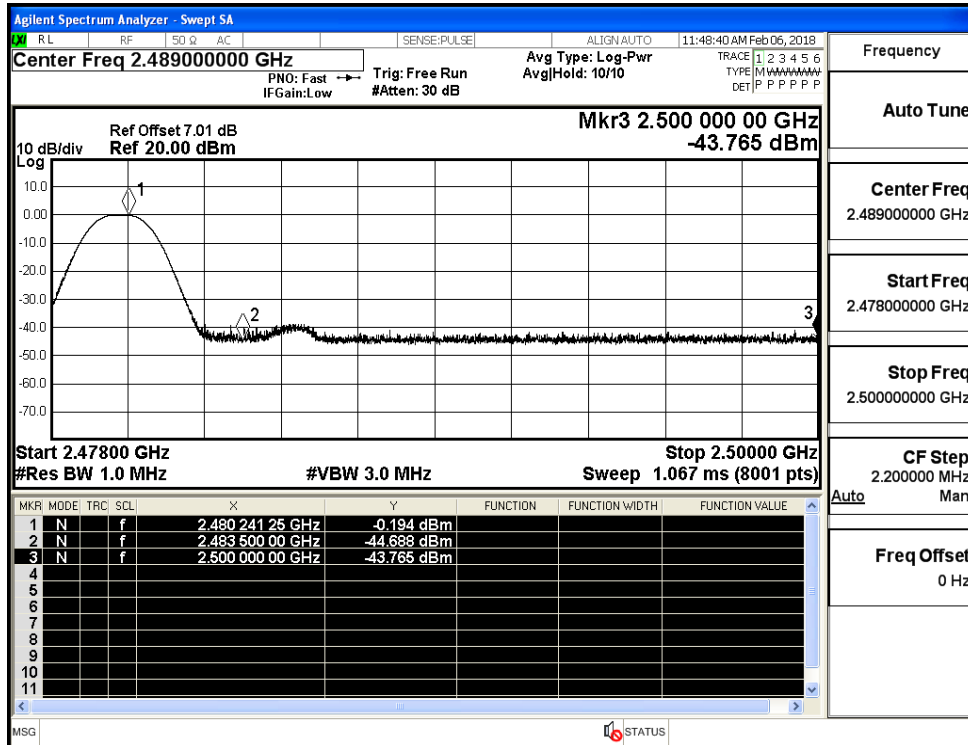
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

