

Appendix B

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

Product Name: goHeart

Trade Mark: N/A

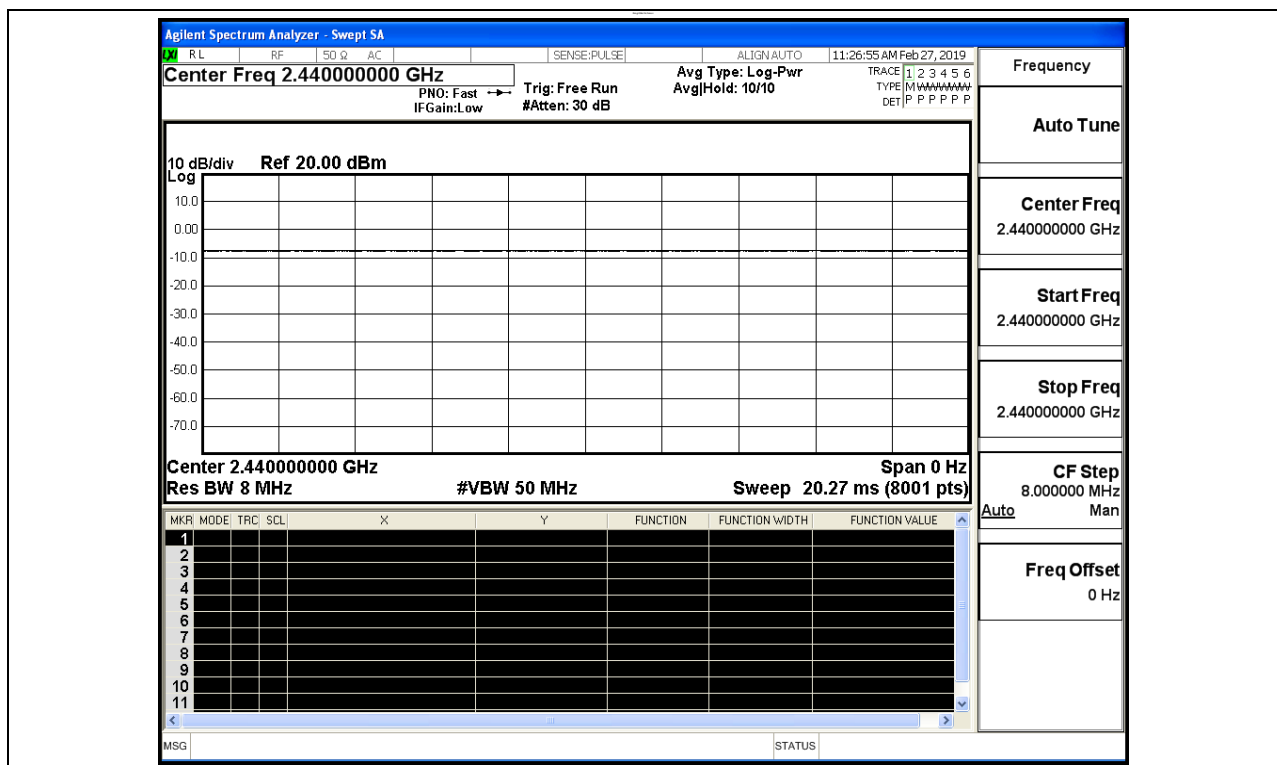
Test Model: XL-02

Environmental Conditions

Temperature:	22.8 ° C
Relative Humidity:	53.3%
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

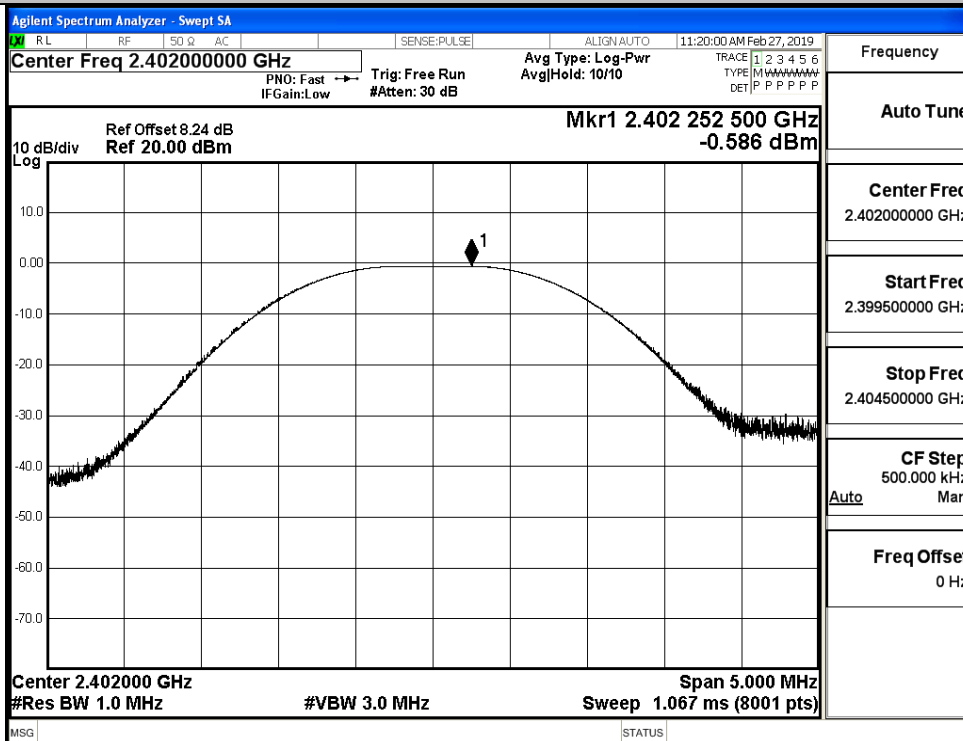


B.2 Maximum Conducted Peak Output Power

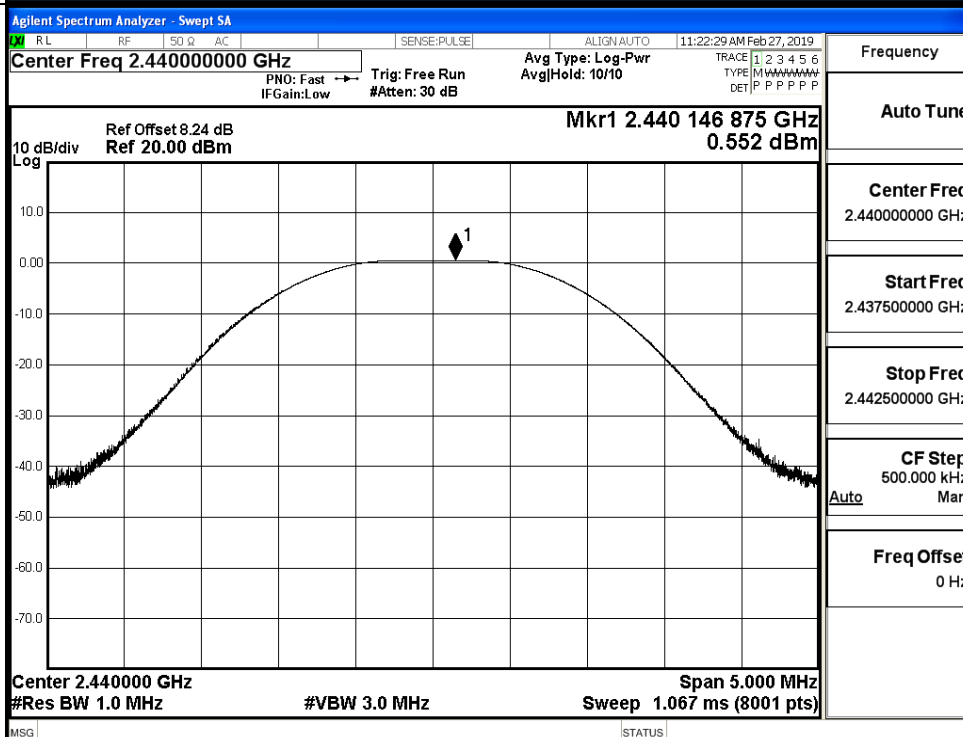
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.586	30	PASS
BT LE	MCH	0.552	30	PASS
BT LE	HCH	-0.3	30	PASS

Test Graphs

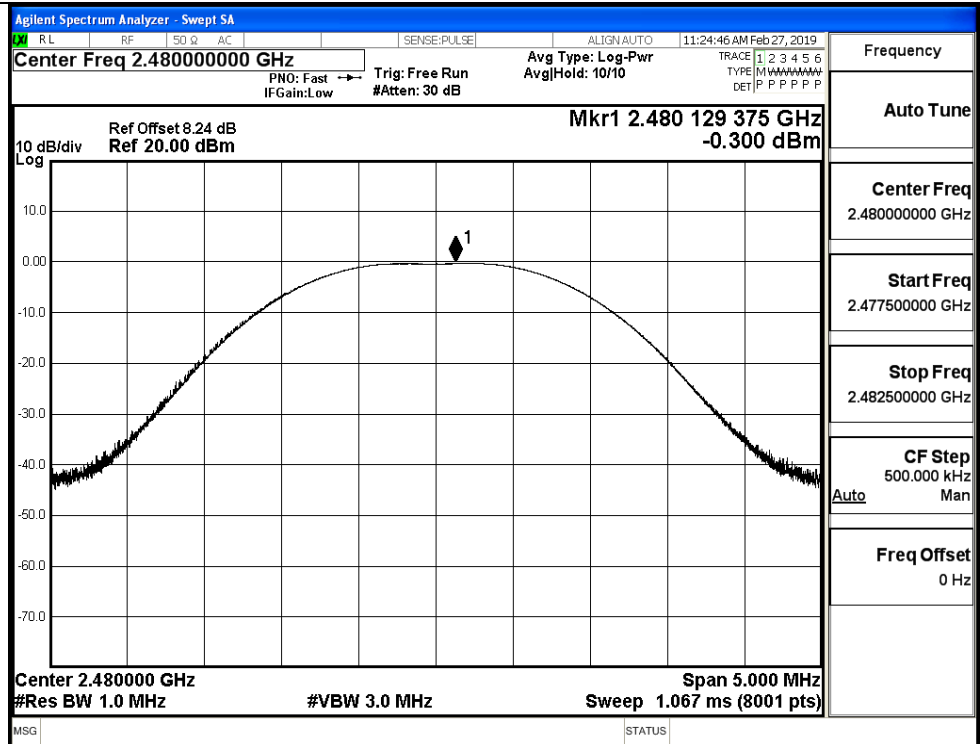
LCH



MCH



HCH

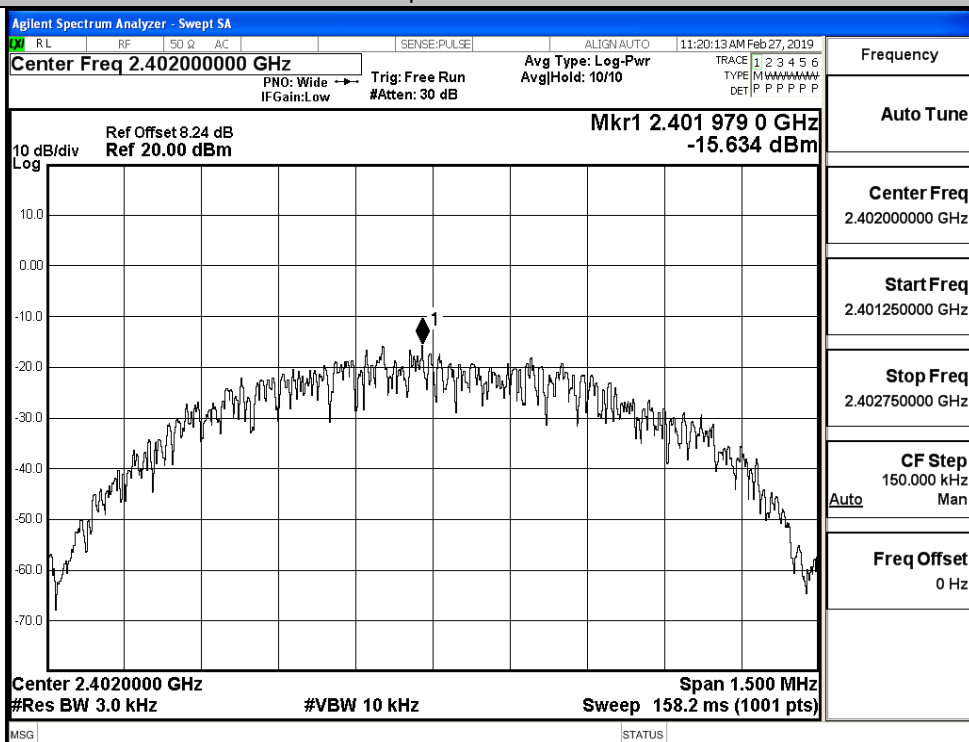


B.3 Maximum Power Spectral Density

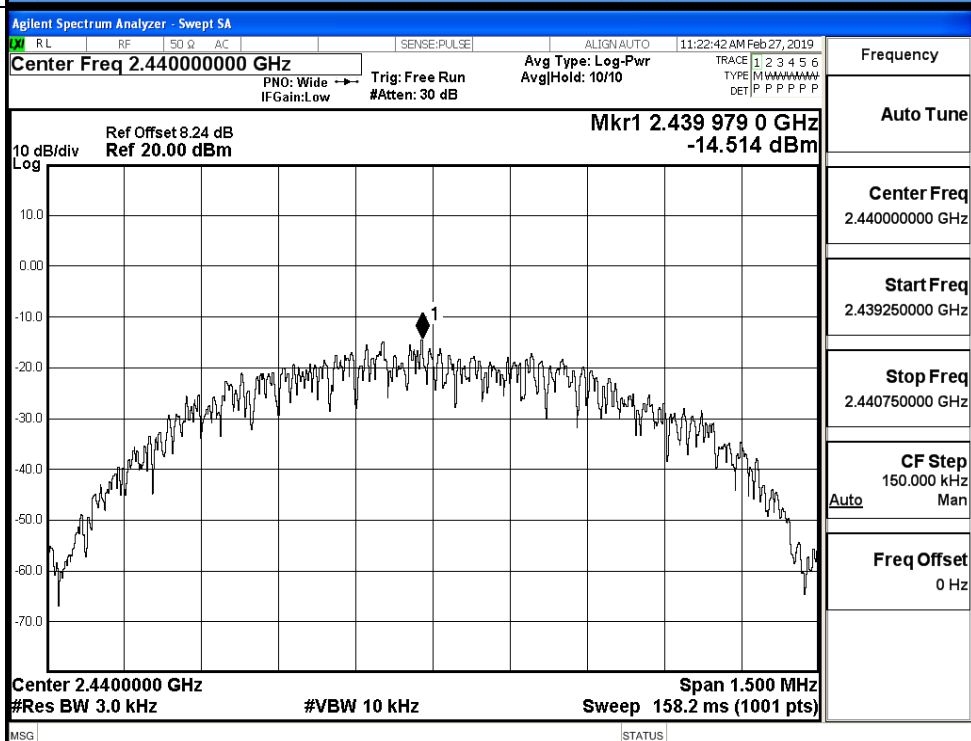
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.634	8	PASS
BT LE	MCH	-14.514	8	PASS
BT LE	HCH	-15.267	8	PASS

Test Graphs

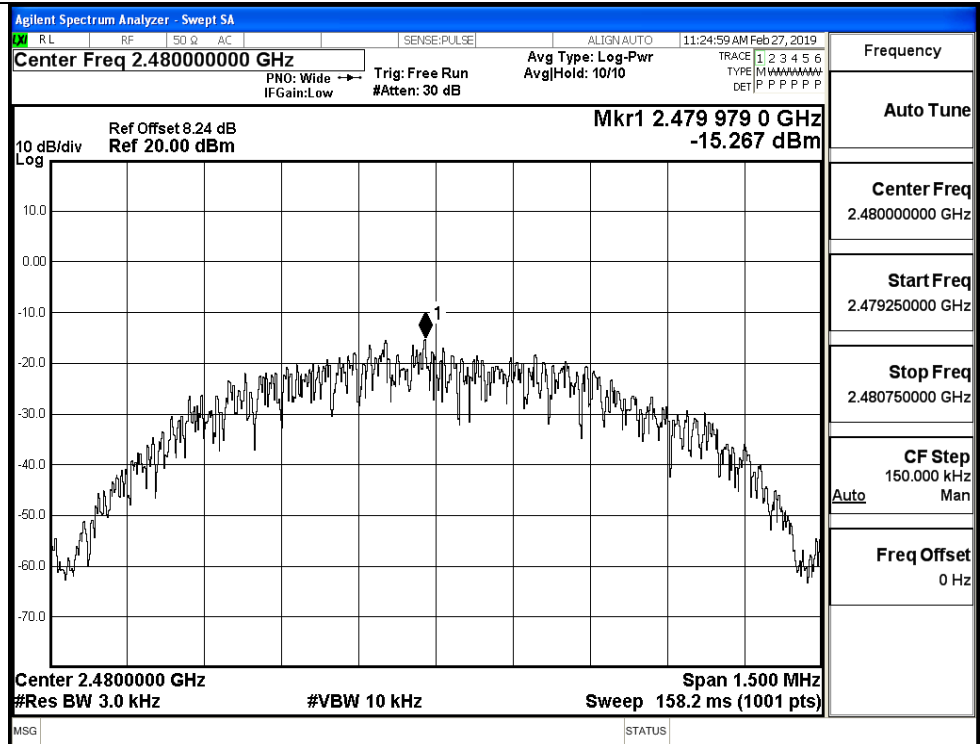
LCH



MCH



HCH

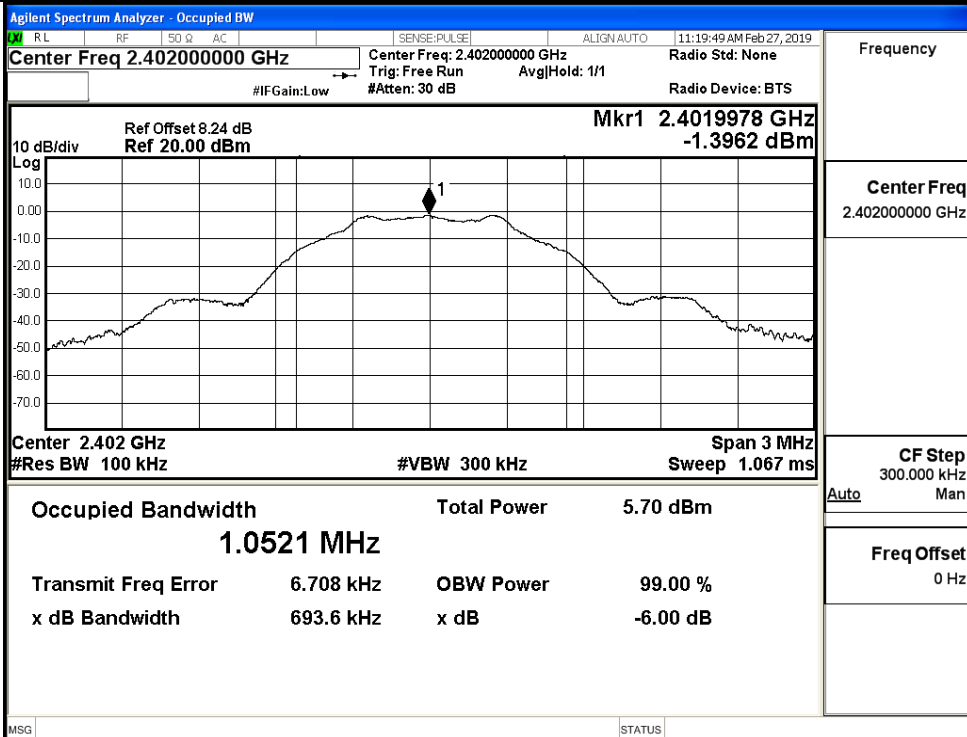


B.4 6dB Bandwidth

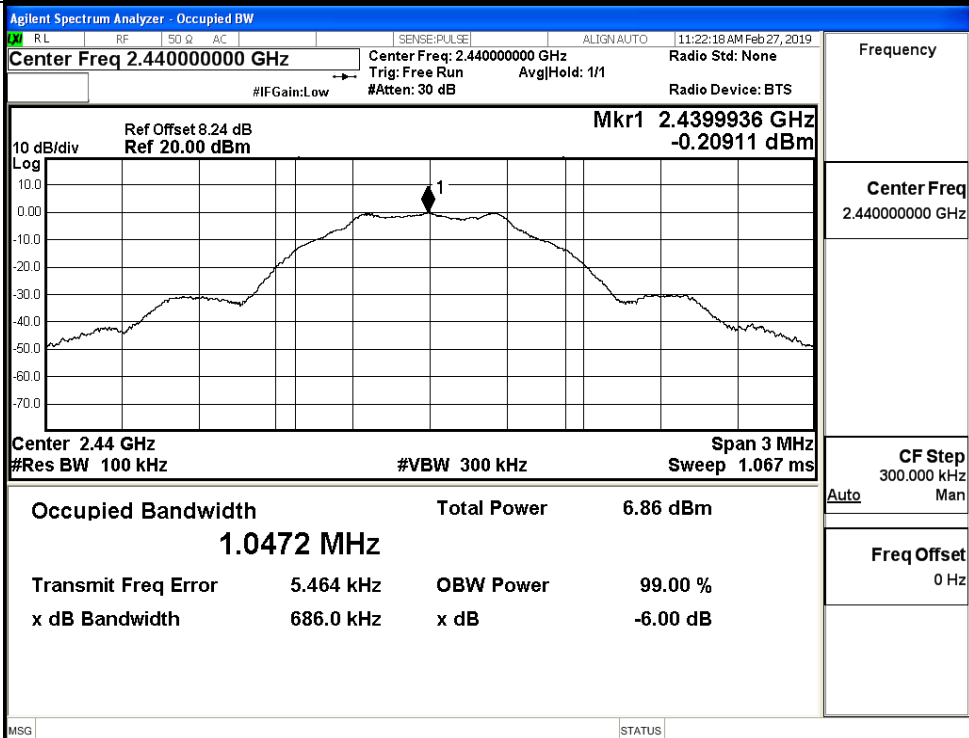
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6936	≥ 0.5	PASS
BT LE	MCH	0.6860	≥ 0.5	PASS
BT LE	HCH	0.6870	≥ 0.5	PASS

Test Graphs

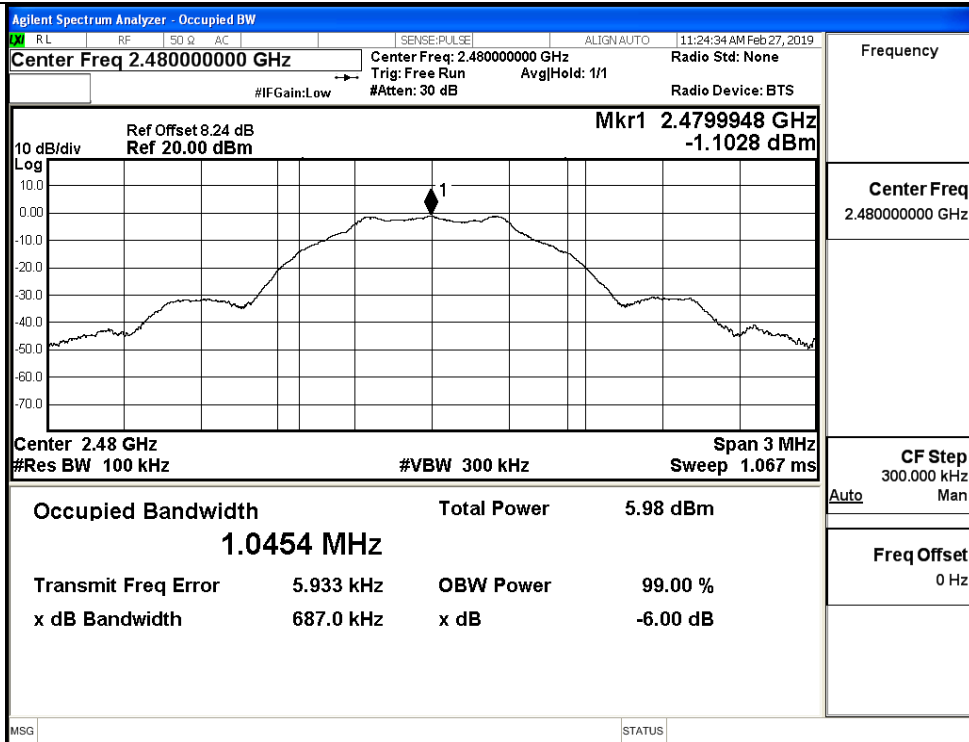
LCH



MCH



HCH

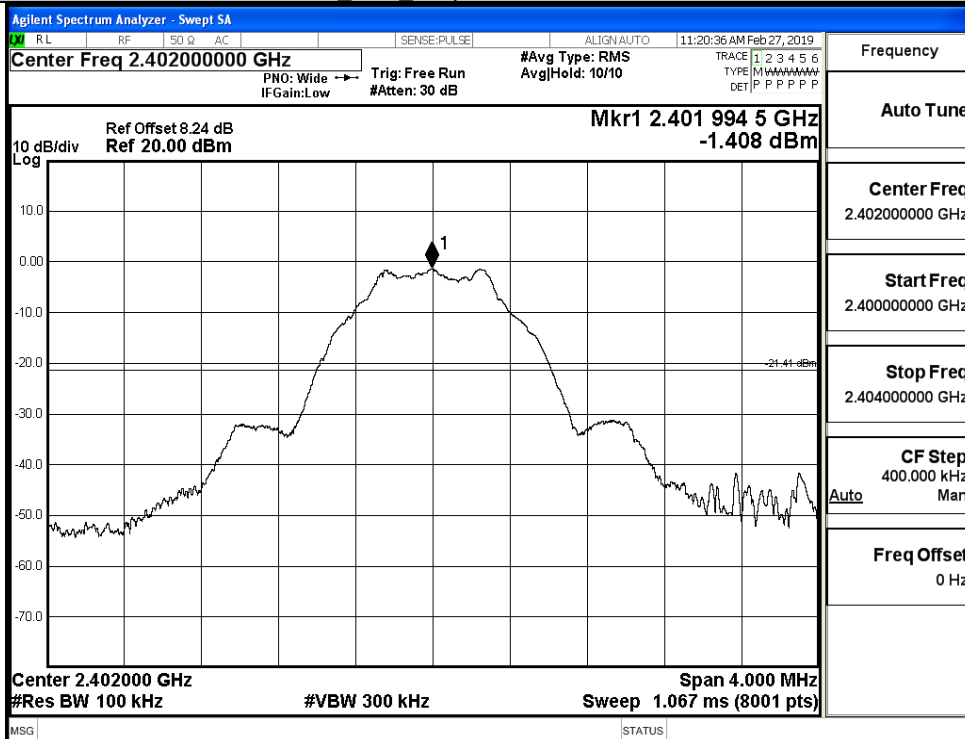


B.5 RF Conducted Spurious Emissions

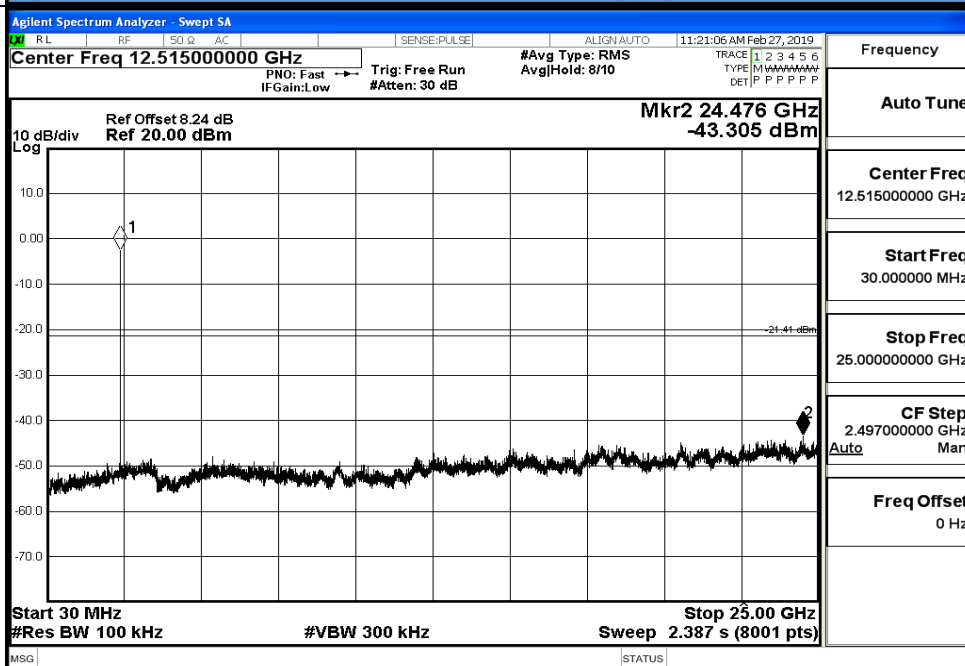
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.408	-43.305	-21.408	PASS
BT LE	MCH	-0.226	-44.336	-20.226	PASS
BT LE	HCH	-1.162	-43.562	-21.162	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

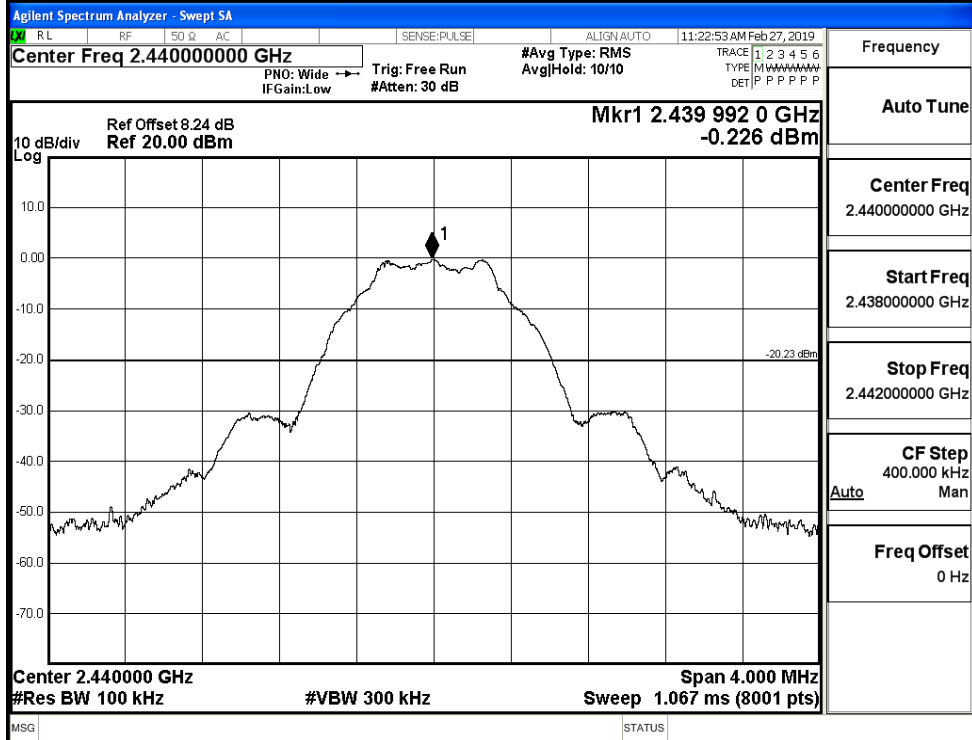


Puw/BT LE/LCH

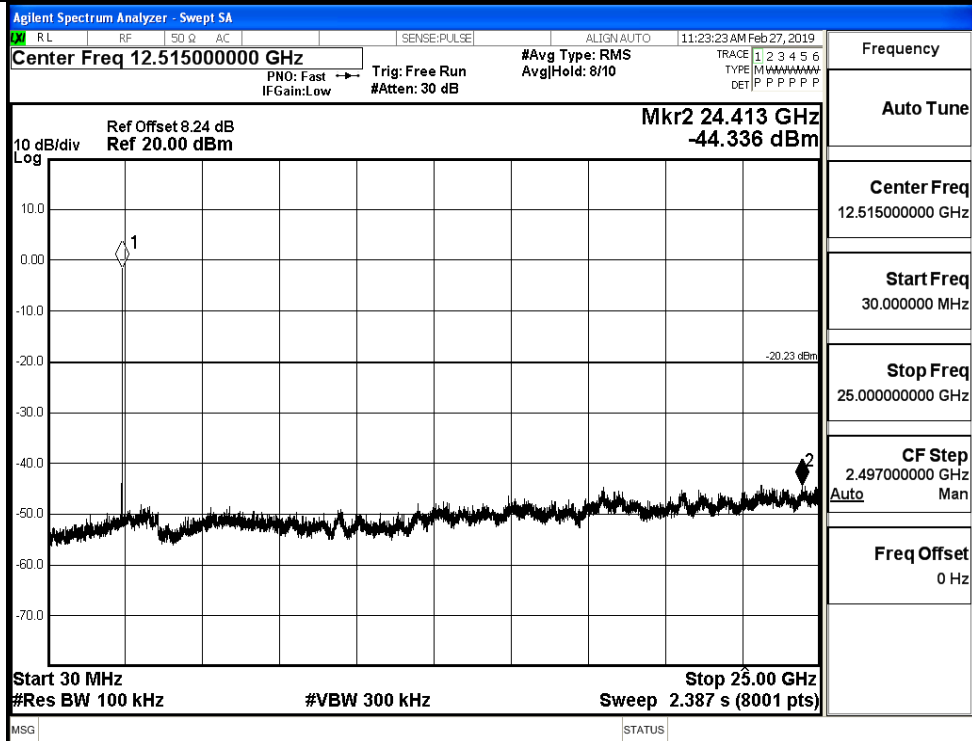


BT LE MCH Graphs

Pref/BT LE/MCH

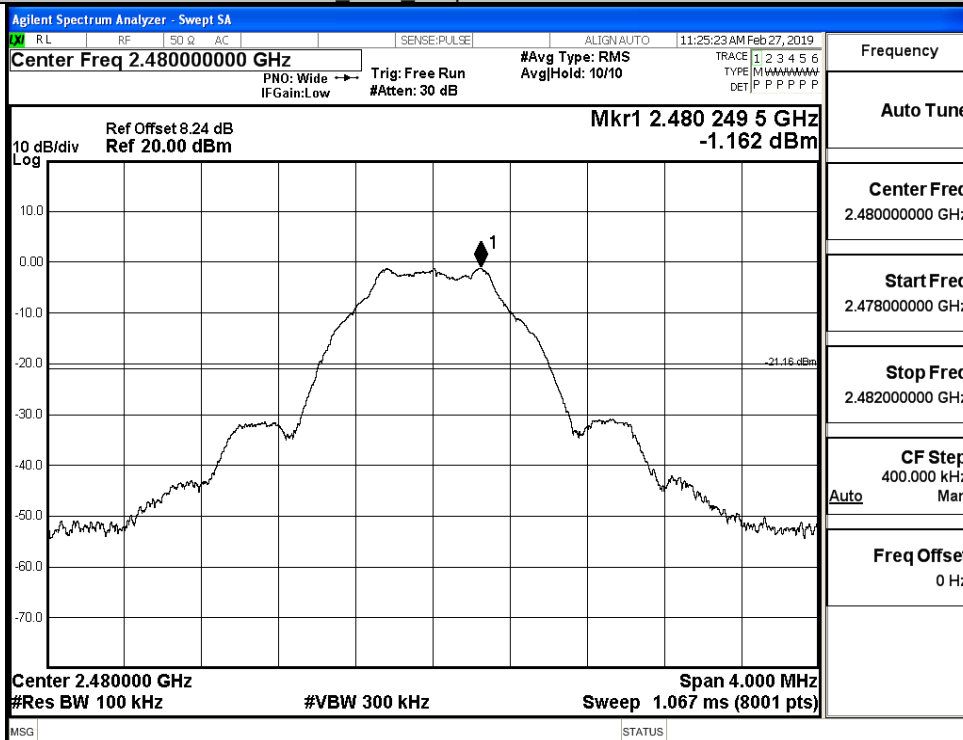


Puw/BT LE/MCH

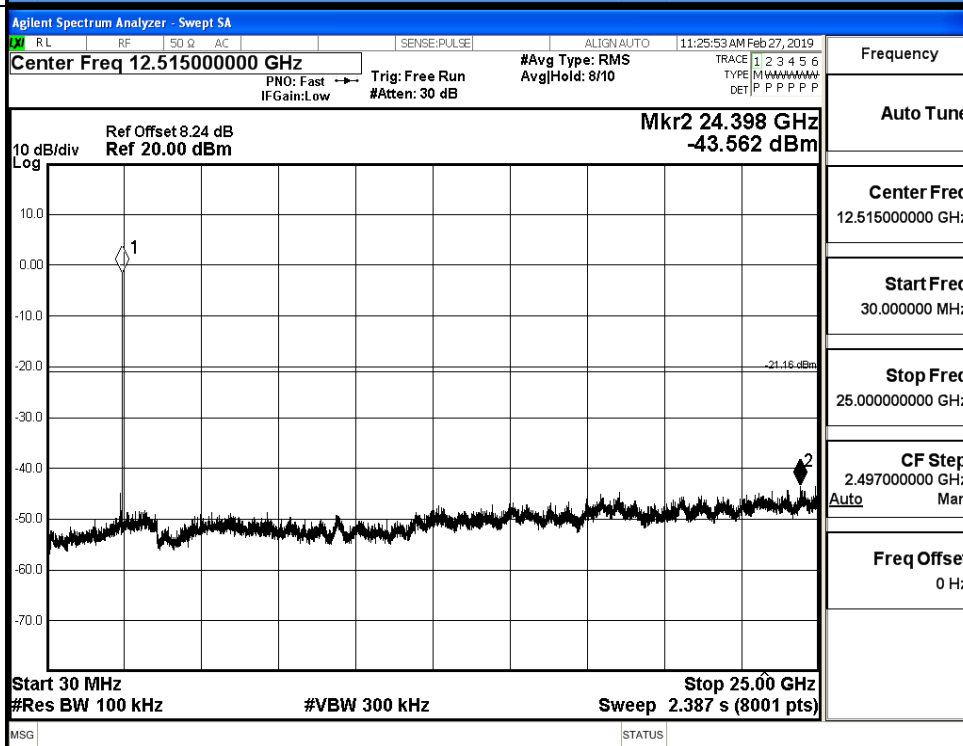


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

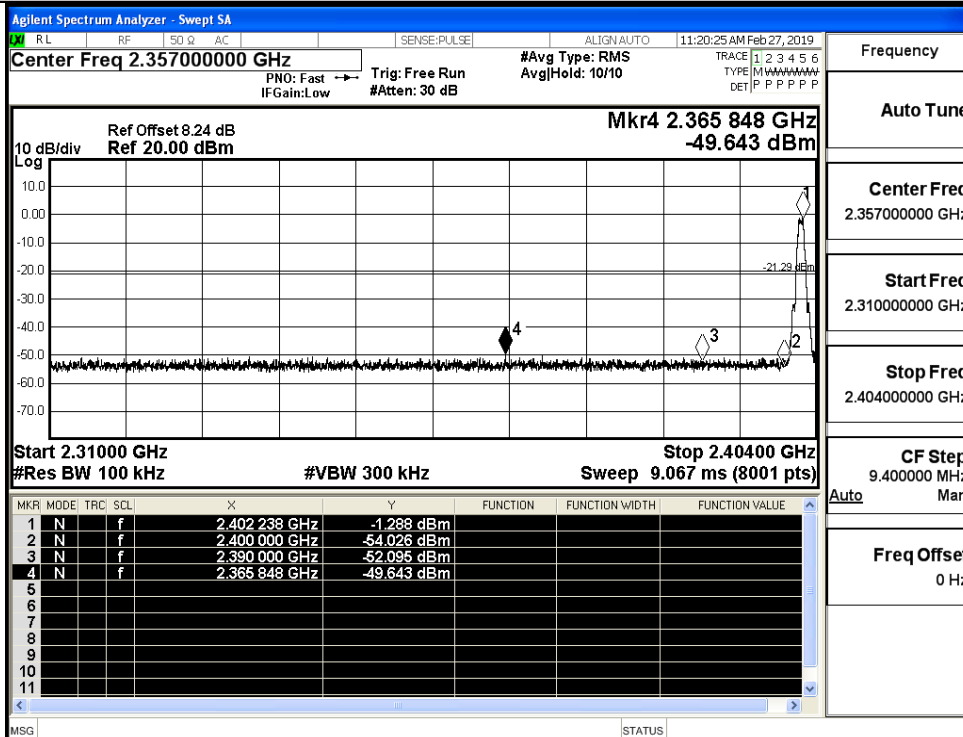


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.288	-49.643	-21.29	PASS
BT LE	HCH	-0.890	-49.949	-20.89	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

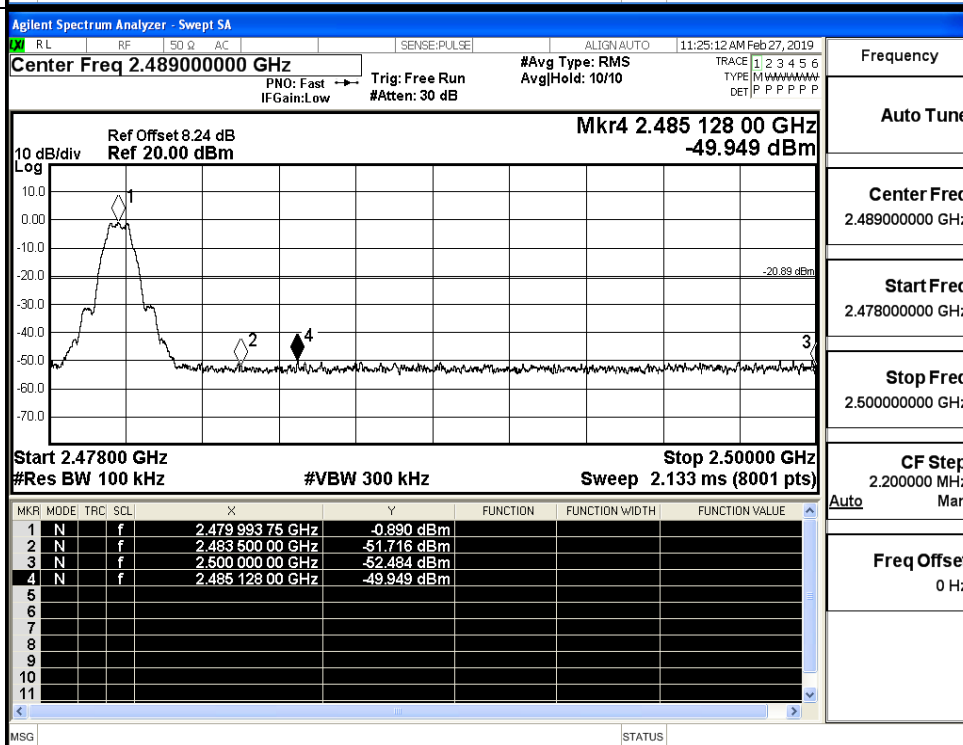
9.400000 MHz

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

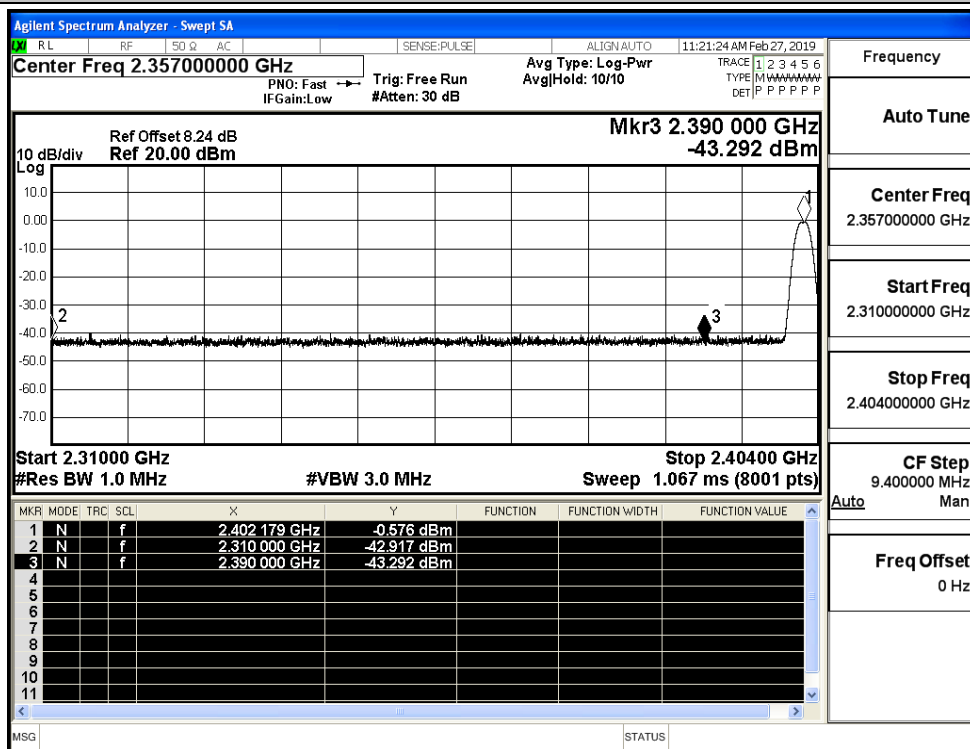
Freq Offset

0 Hz

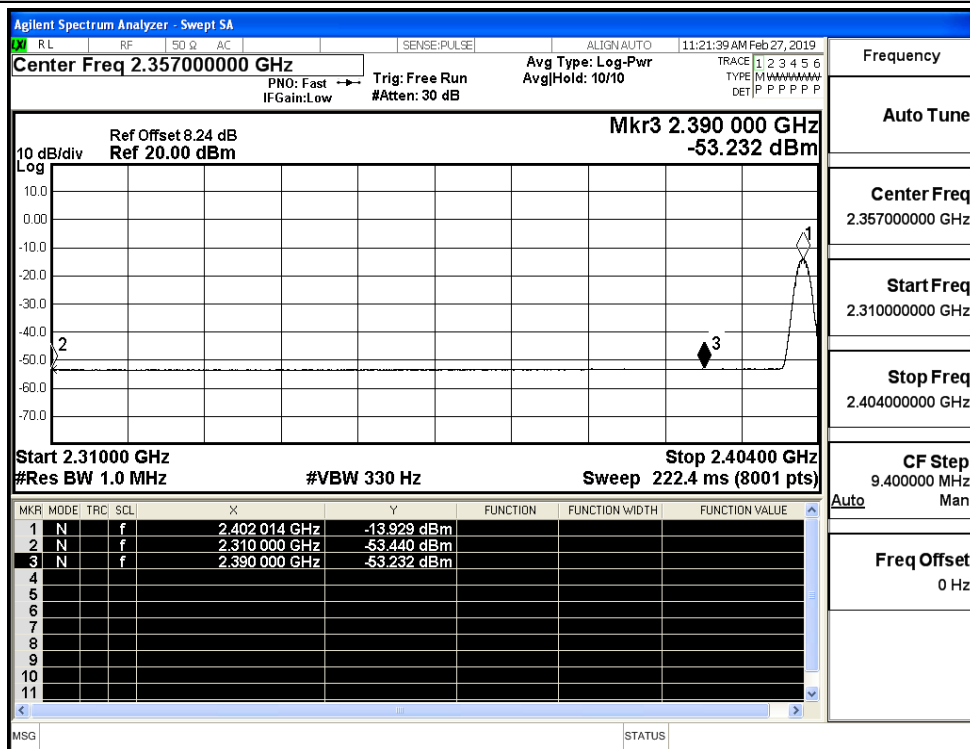
B.7 Restrict-band band-edge measurements

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	-42.92	2.0	0	52.34	PEAK	74	PASS
		Ant1	2310.0	-53.44	2.0	0	41.82	AV	54	PASS
		Ant1	2390.0	-43.29	2.0	0	51.97	PEAK	74	PASS
		Ant1	2390.0	-53.23	2.0	0	42.03	AV	54	PASS
	2480	Ant1	2483.5	-43.94	2.0	0	51.32	PEAK	74	PASS
		Ant1	2483.5	-52.99	2.0	0	42.27	AV	54	PASS
		Ant1	2500.0	-44.13	2.0	0	51.13	PEAK	74	PASS
		Ant1	2500.0	-52.88	2.0	0	42.38	AV	54	PASS

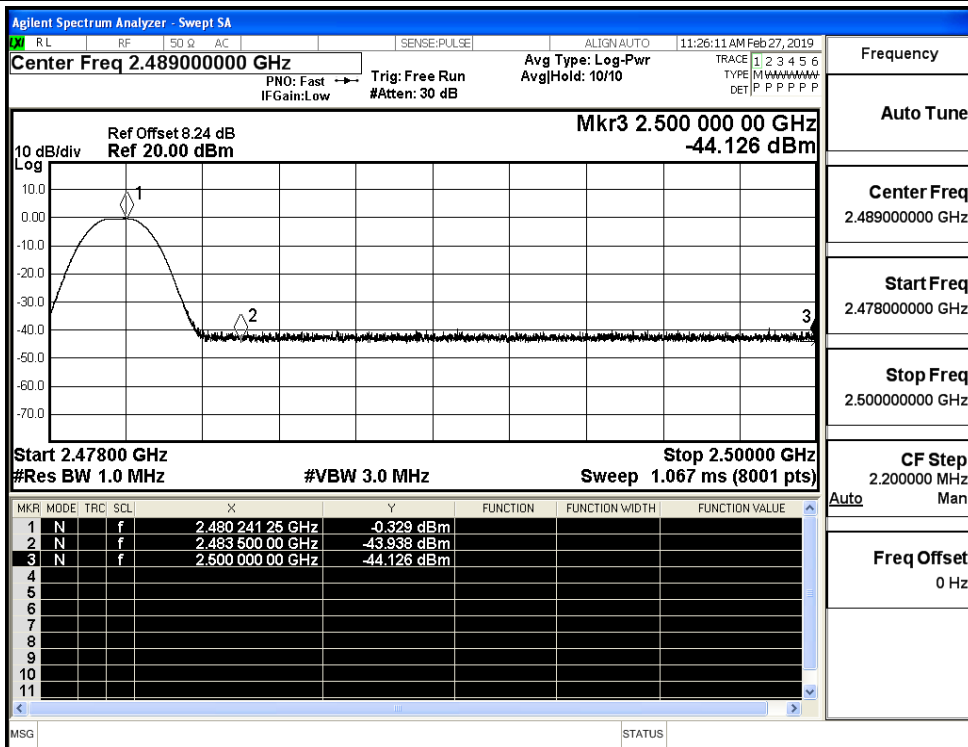
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

