

Appendix B

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

Product Name: Multi-tech Card Reader

Trade Mark: Delta

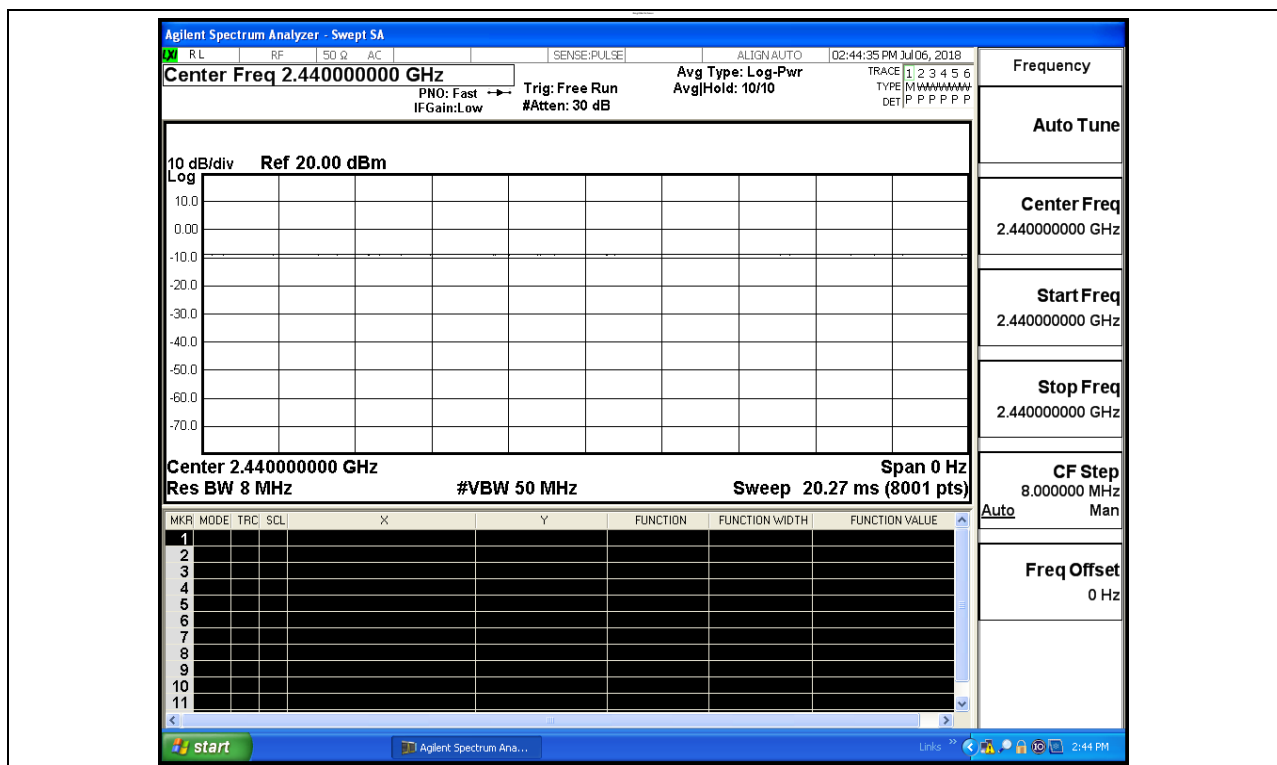
Test Model: DAC-MTCR-001

Environmental Conditions

Temperature:	22.7 ° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	DIAMOND.LU
Supervised by:	Jayden.Zhuo

A.1 Duty Cycle

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

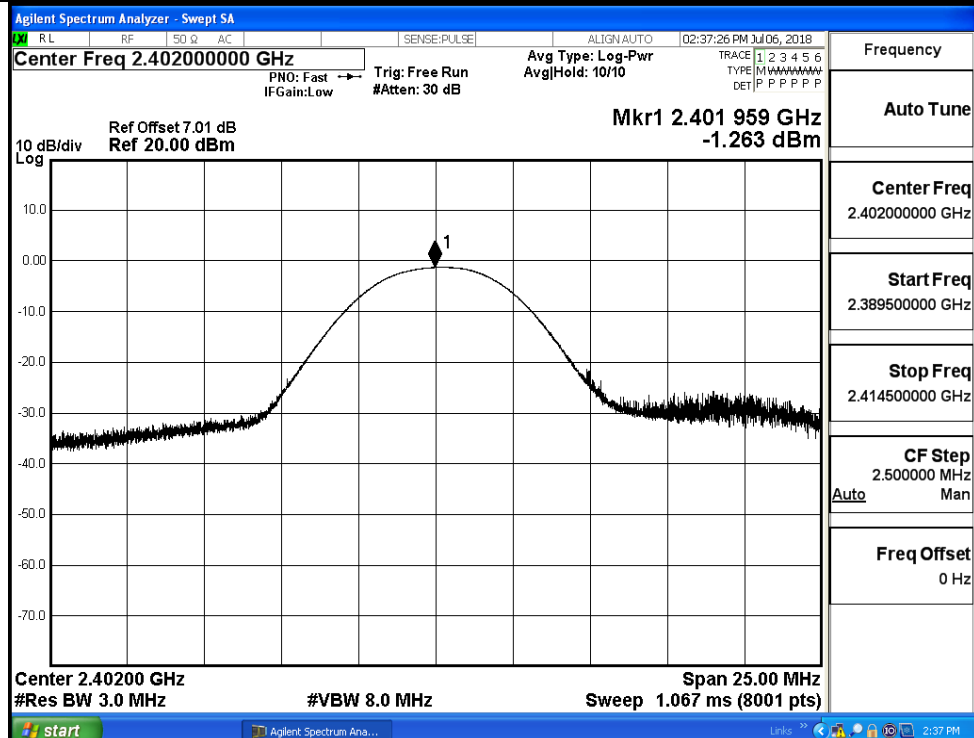


A.2 Maximum Conducted Peak Output Power

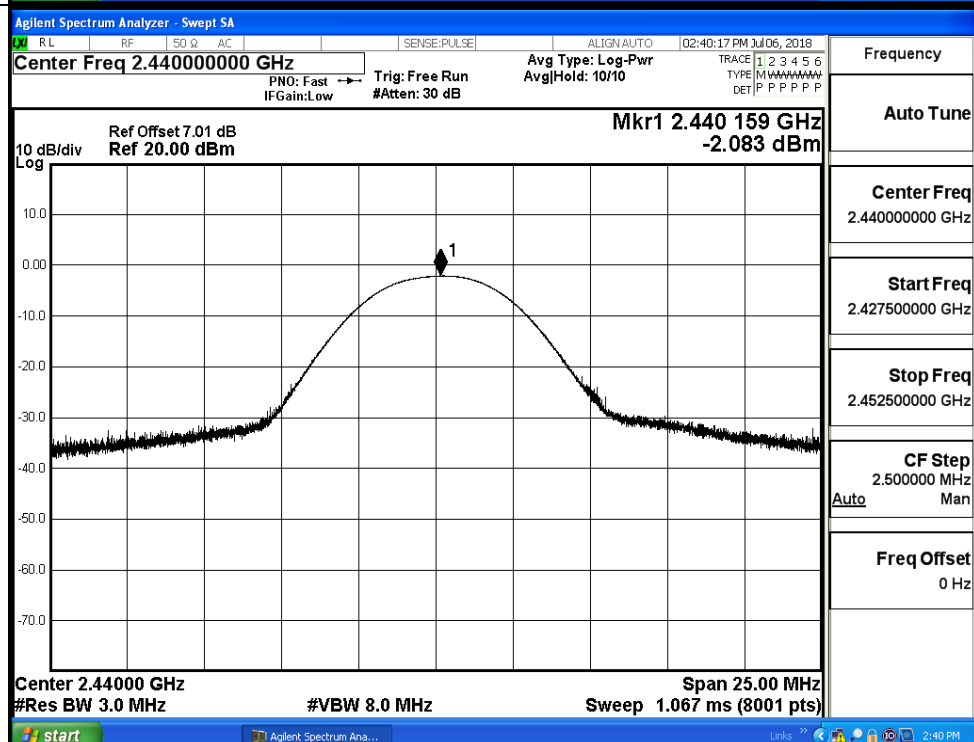
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.263	30	PASS
BT LE	MCH	-2.083	30	PASS
BT LE	HCH	-2.494	30	PASS

Test Graphs

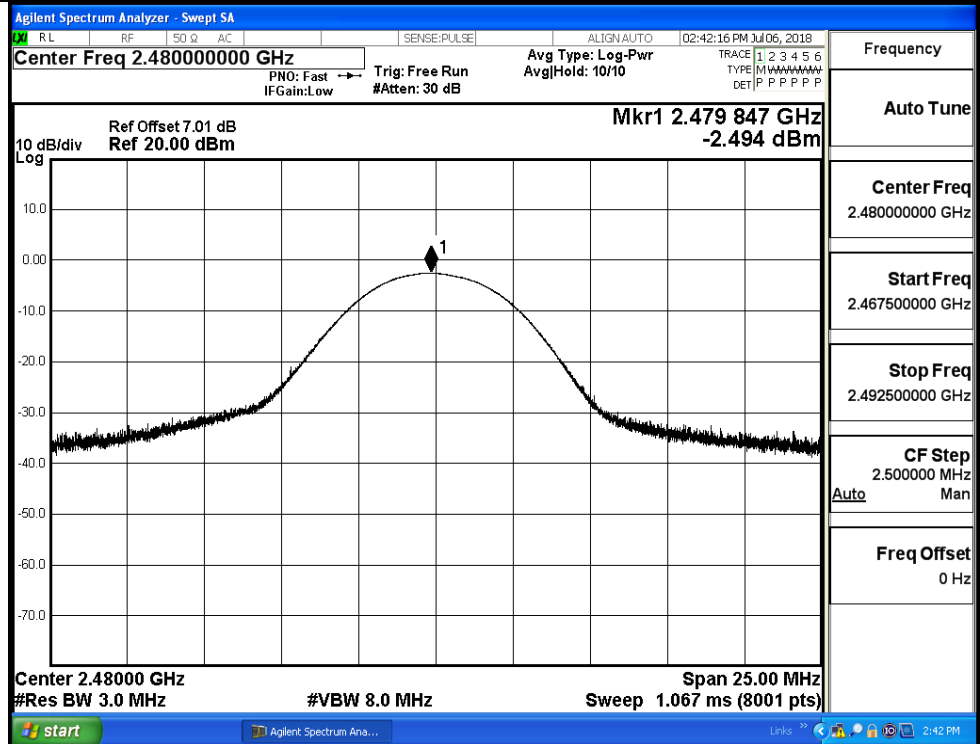
LCH



MCH



HCH

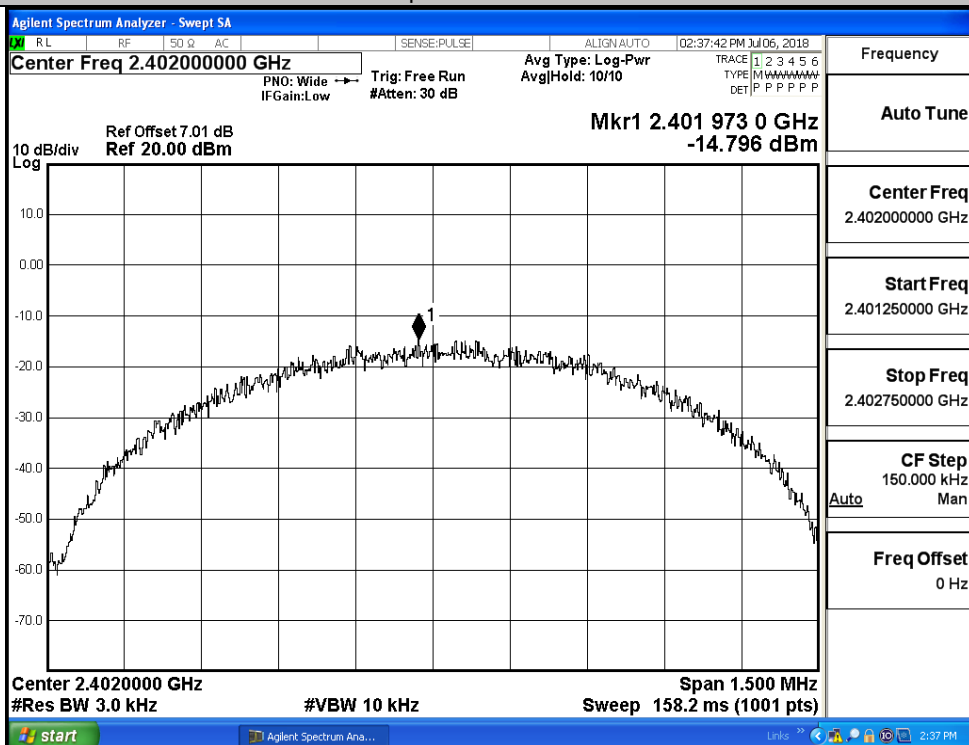


A.3 Maximum Power Spectral Density

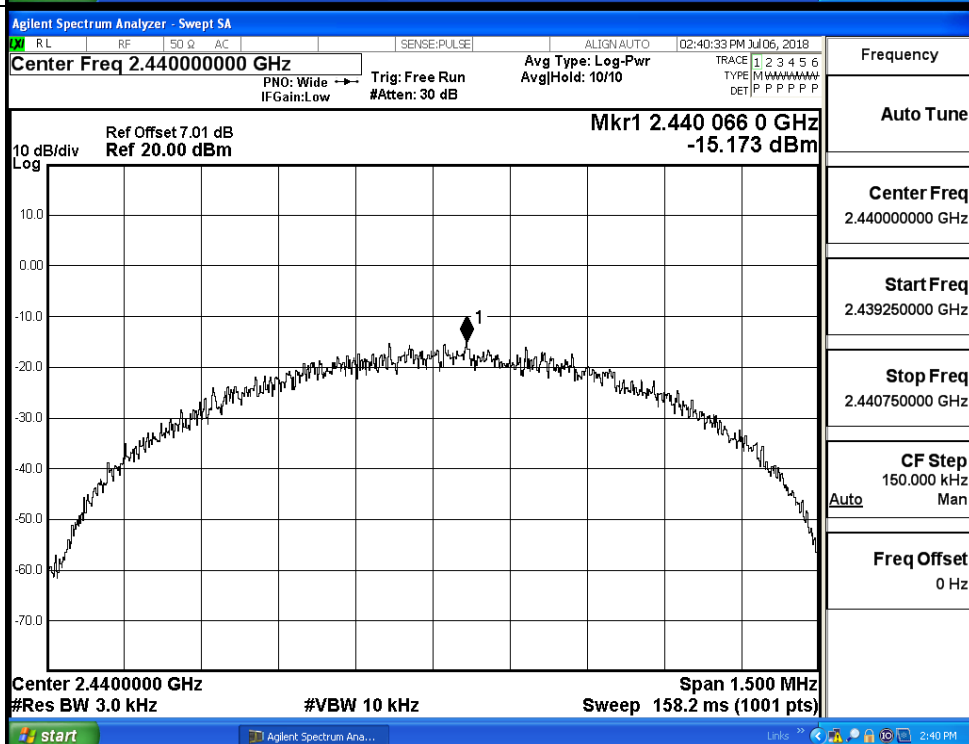
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.796	8	PASS
BT LE	MCH	-15.173	8	PASS
BT LE	HCH	-15.735	8	PASS

Test Graphs

LCH



MCH



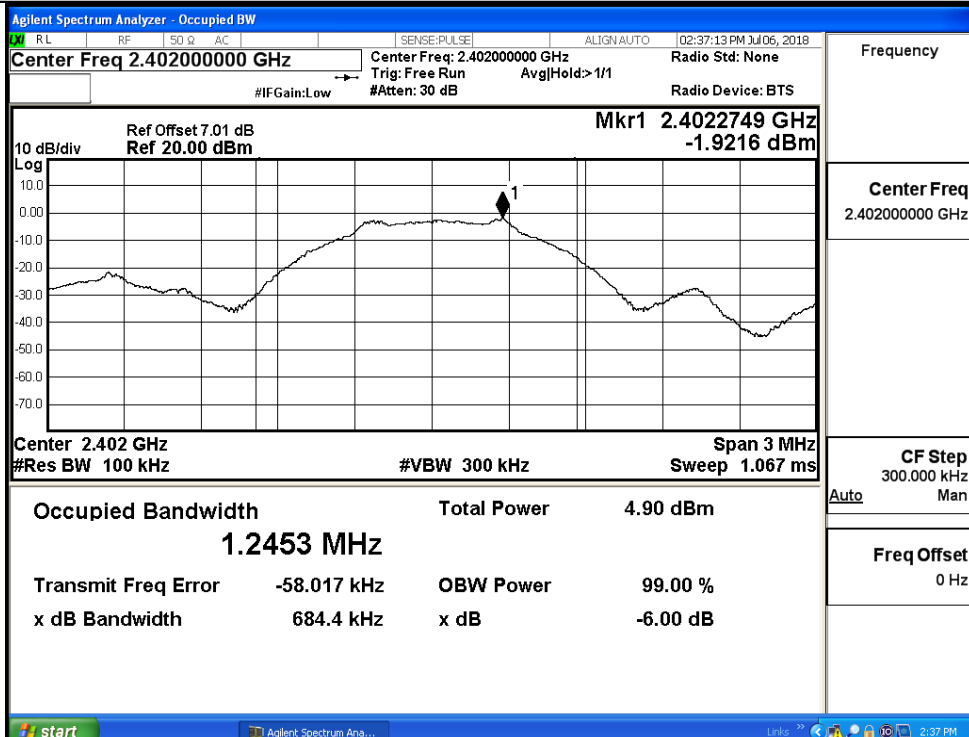


A.4 6dB Bandwidth

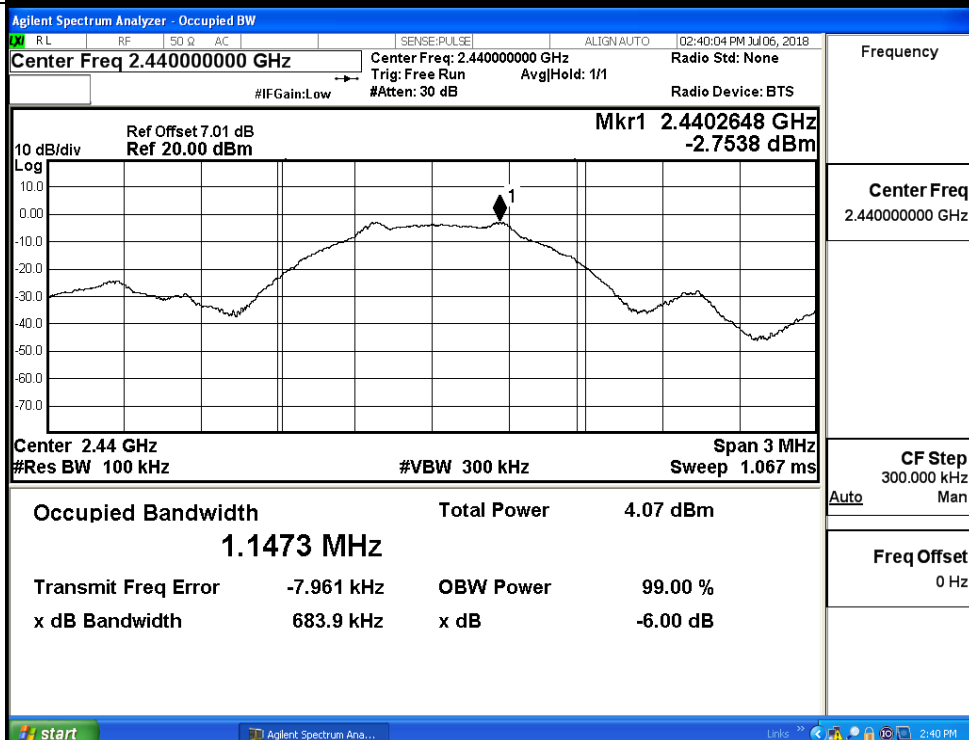
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6844	≥ 0.5	PASS
BT LE	MCH	0.6839	≥ 0.5	PASS
BT LE	HCH	0.6914	≥ 0.5	PASS

Test Graphs

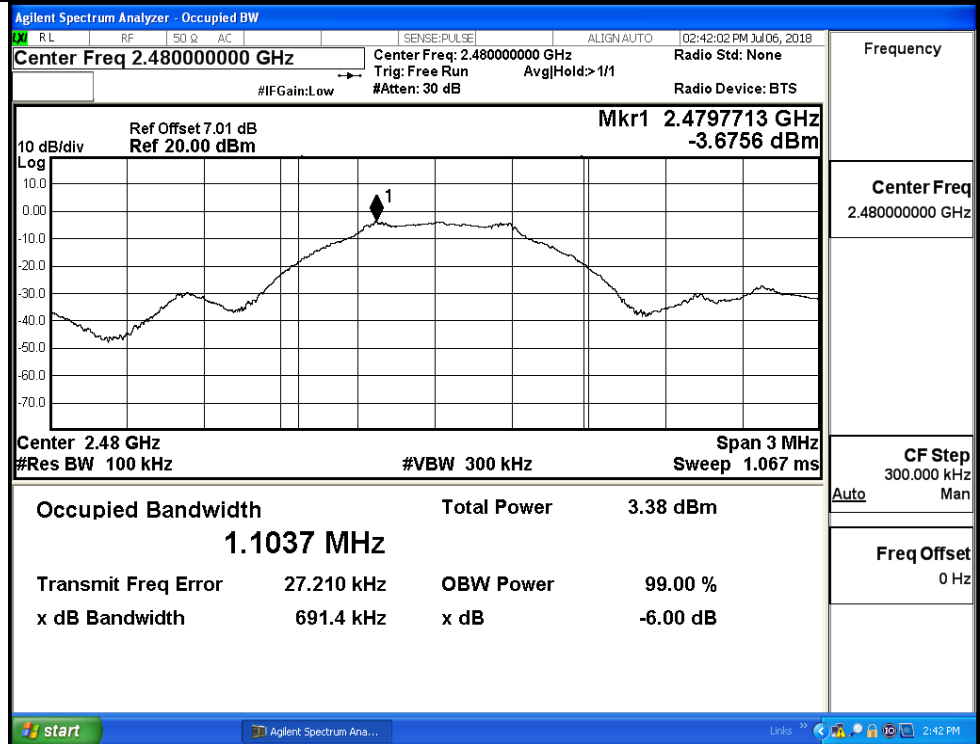
LCH



MCH



HCH

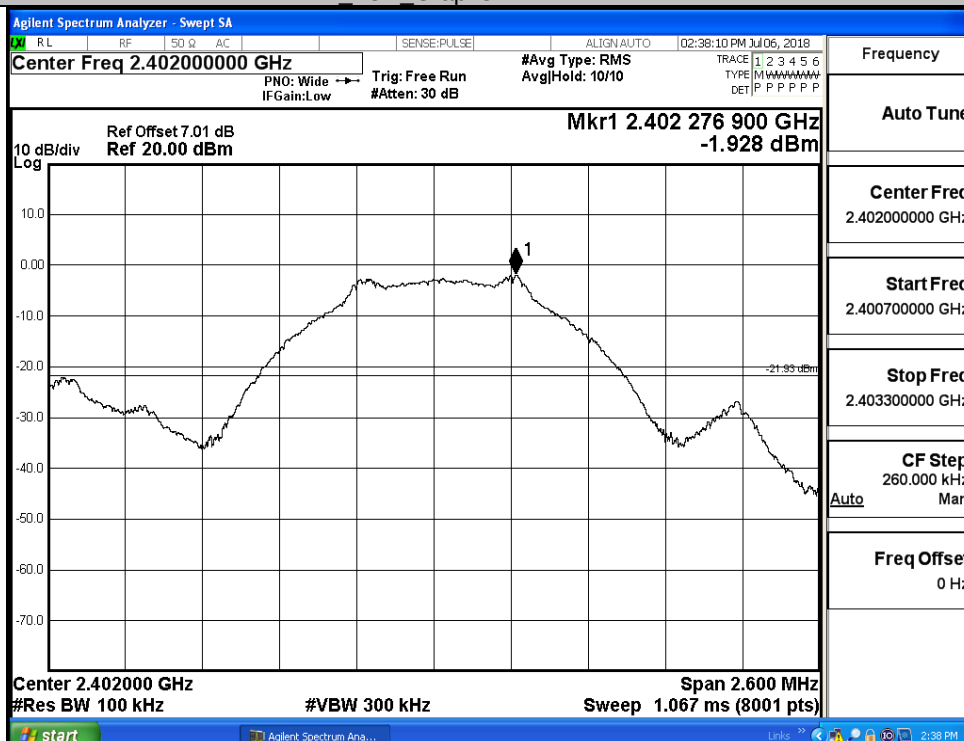


A.5 RF Conducted Spurious Emissions

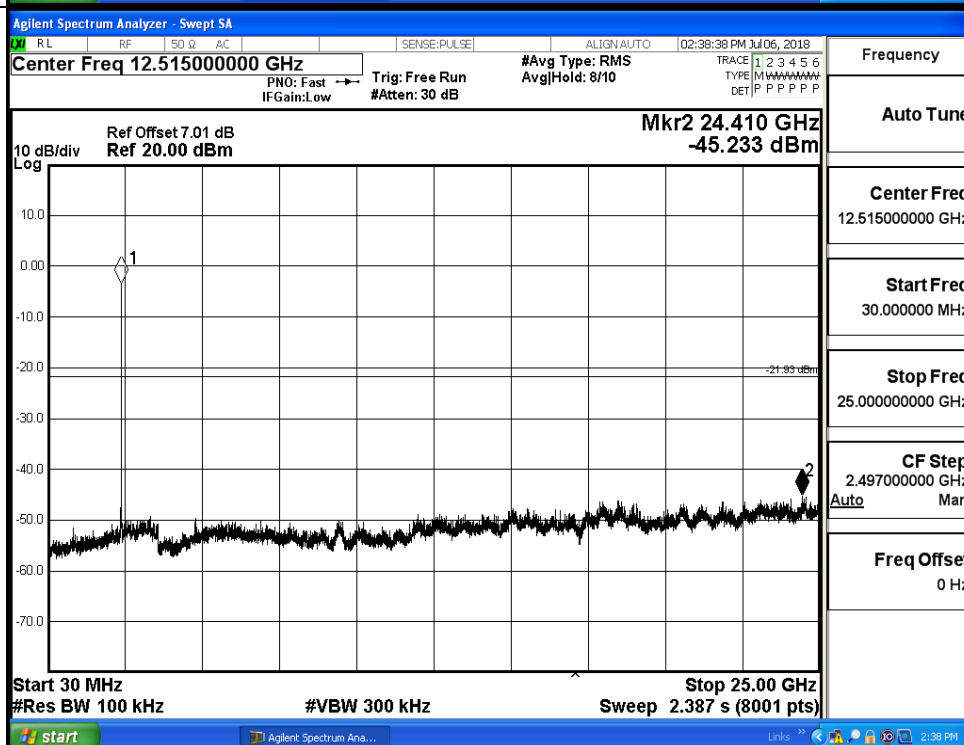
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.928	-45.233	-21.928	PASS
BT LE	MCH	-2.607	-45.206	-22.607	PASS
BT LE	HCH	-3.261	-45.055	-23.261	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

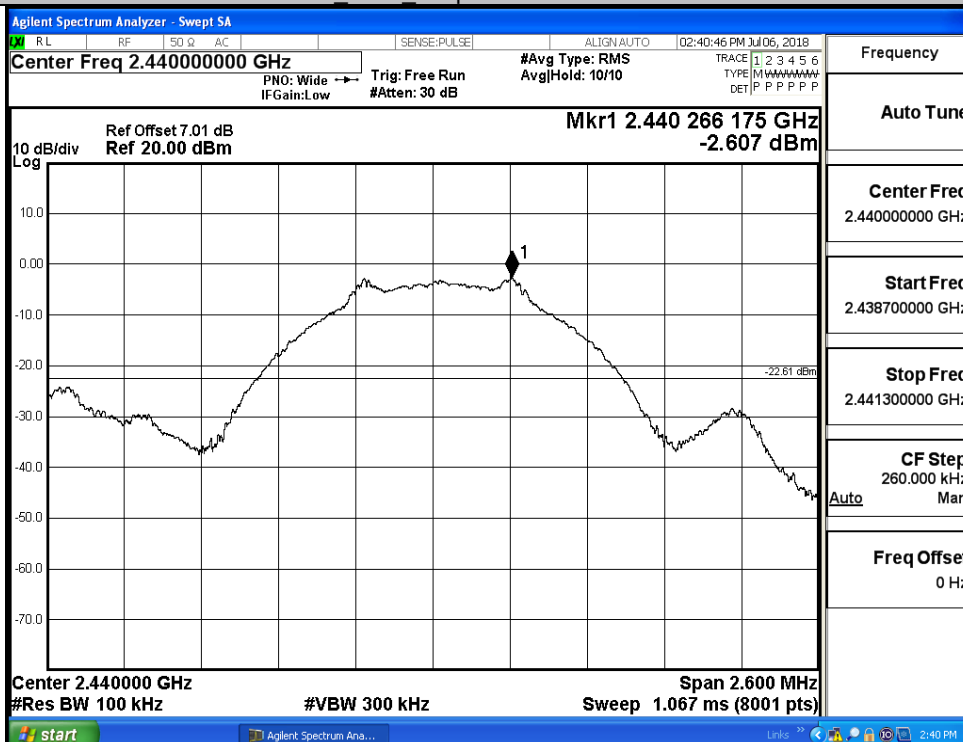


Puw/BT LE/LCH

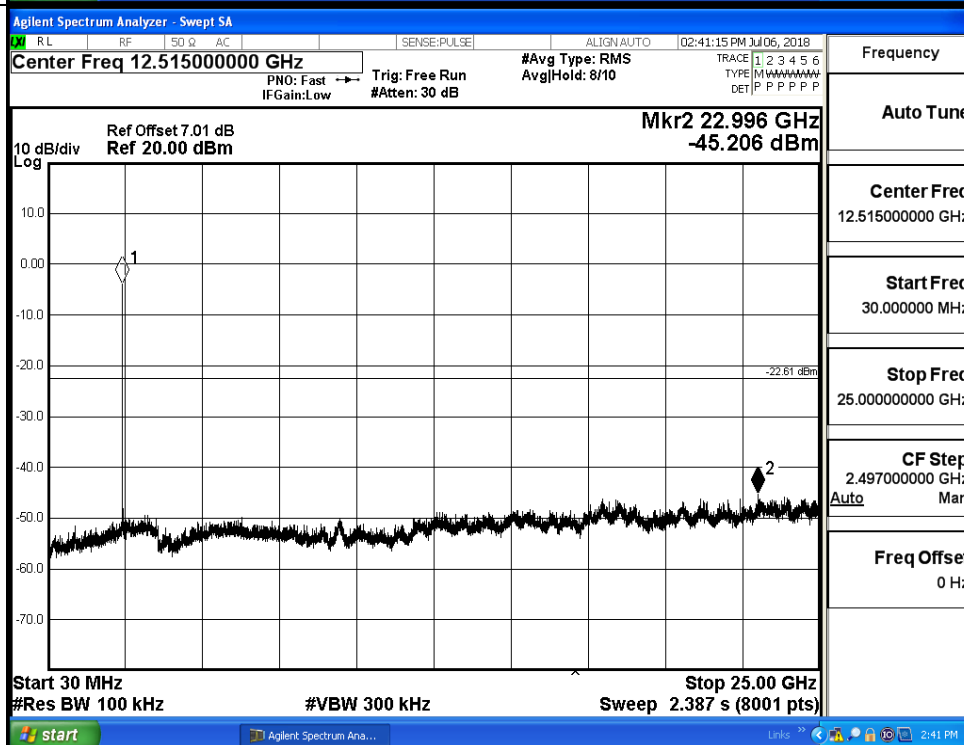


BT LE MCH Graphs

Pref/BT LE/MCH

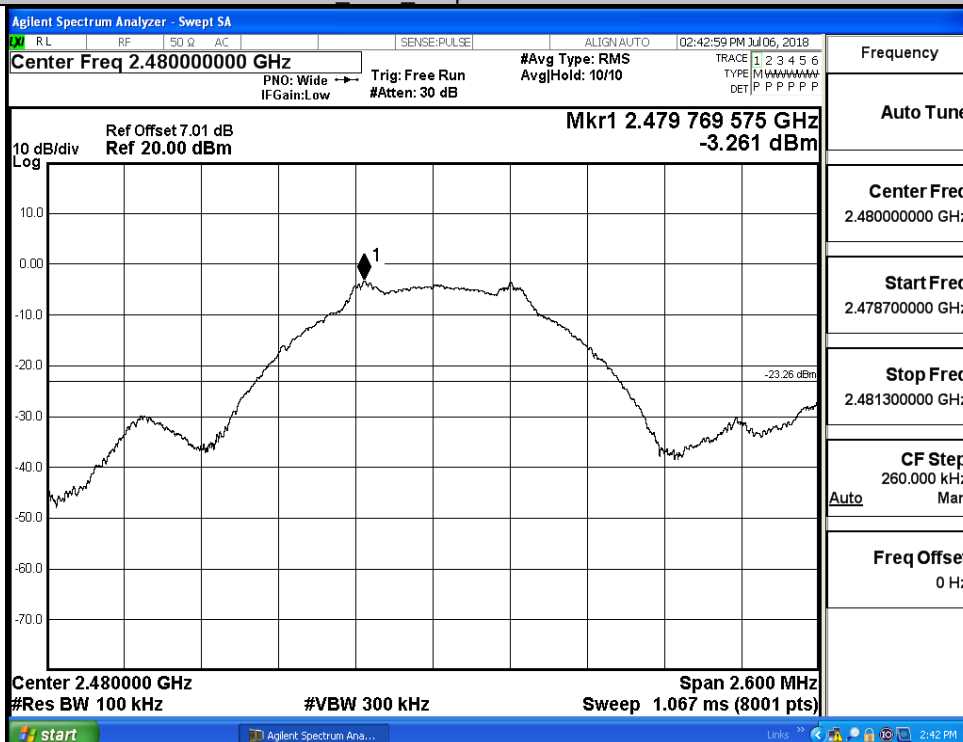


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

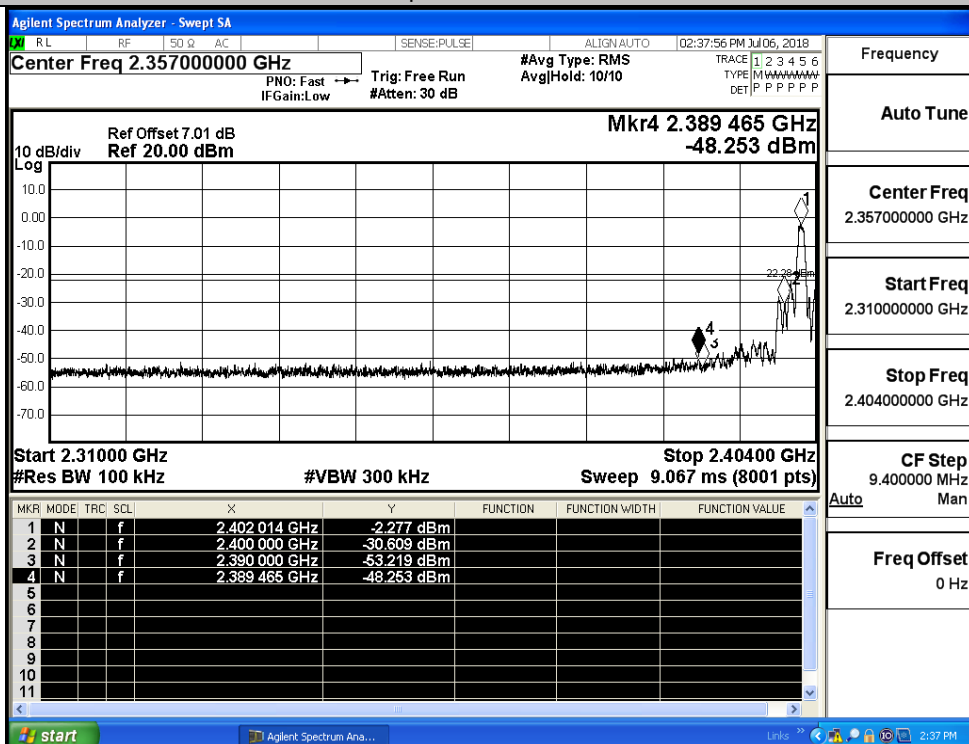


A.6 Band-edge for RF Conducted Emissions

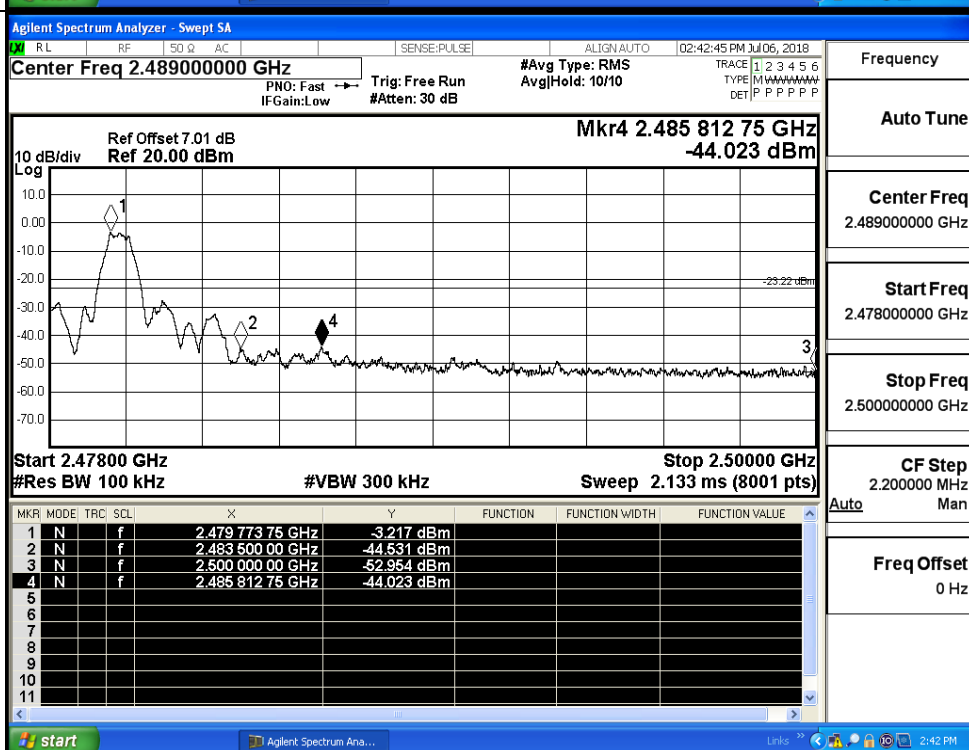
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.277	-48.253	-22.28	PASS
BT LE	HCH	-3.217	-44.023	-23.22	PASS

Test Graphs

LCH



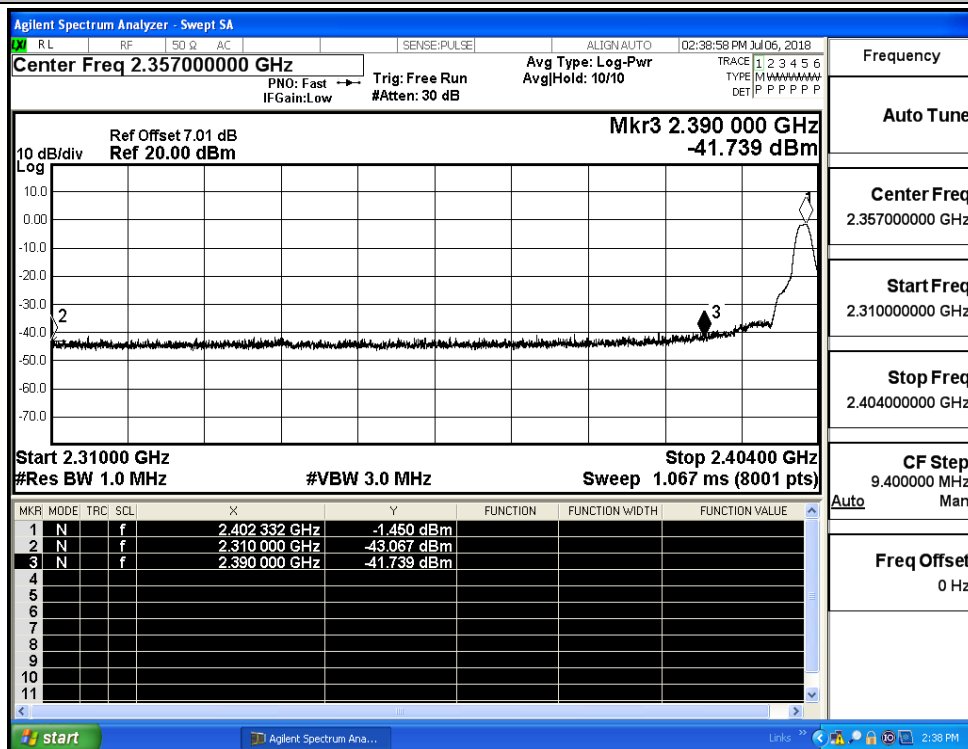
HCH



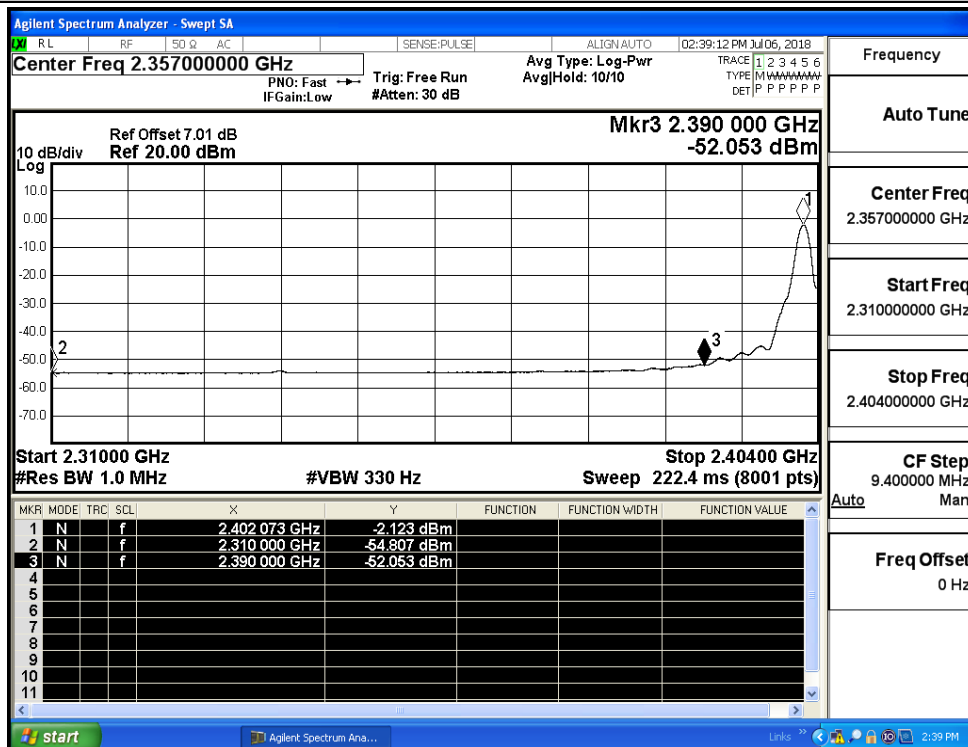
A.7 Restrict-band band-edge measurements

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	-43.07	2.8	0	54.99	PEAK	74	PASS
		Ant1	2310.0	-54.81	2.8	0	43.25	AV	54	PASS
		Ant1	2390.0	-41.74	2.8	0	56.32	PEAK	74	PASS
		Ant1	2390.0	-52.05	2.8	0	46.01	AV	54	PASS
	2480	Ant1	2483.5	-39.95	2.8	0	58.11	PEAK	74	PASS
		Ant1	2483.5	-49.13	2.8	0	48.93	AV	54	PASS
		Ant1	2500.0	-44.39	2.8	0	53.67	PEAK	74	PASS
		Ant1	2500.0	-54.01	2.8	0	44.05	AV	54	PASS

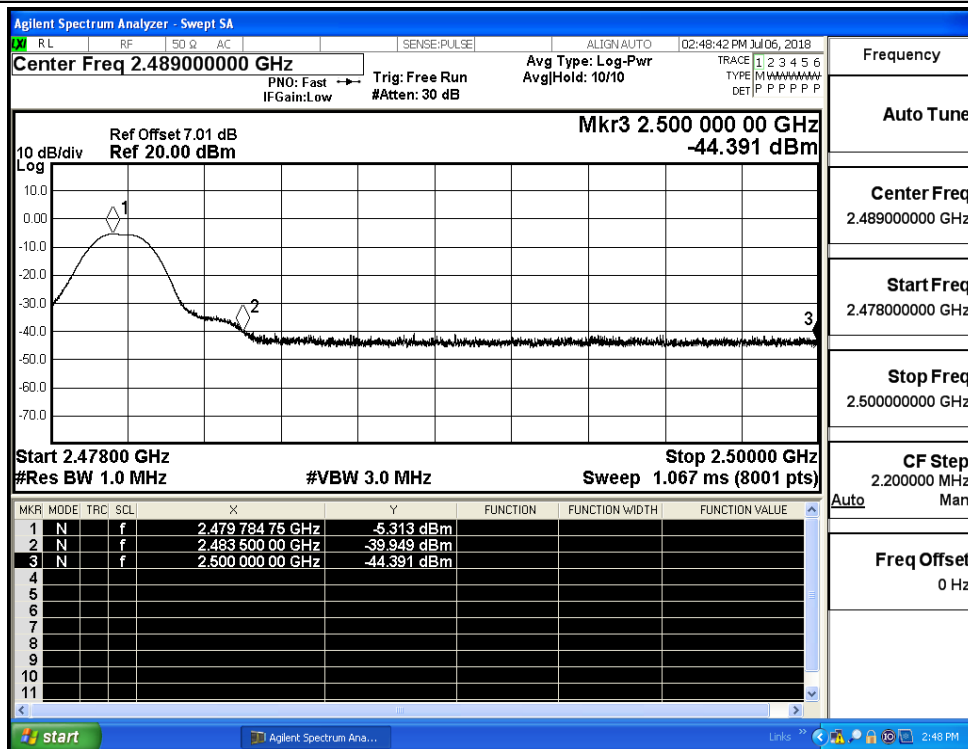
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

