

Appendix B

RF Test Data for BT V5.0(BT LE) (Conducted Measurement)

Product Name: Bedside Alarm Clock with Wireless Charging

Trade Mark: i-box

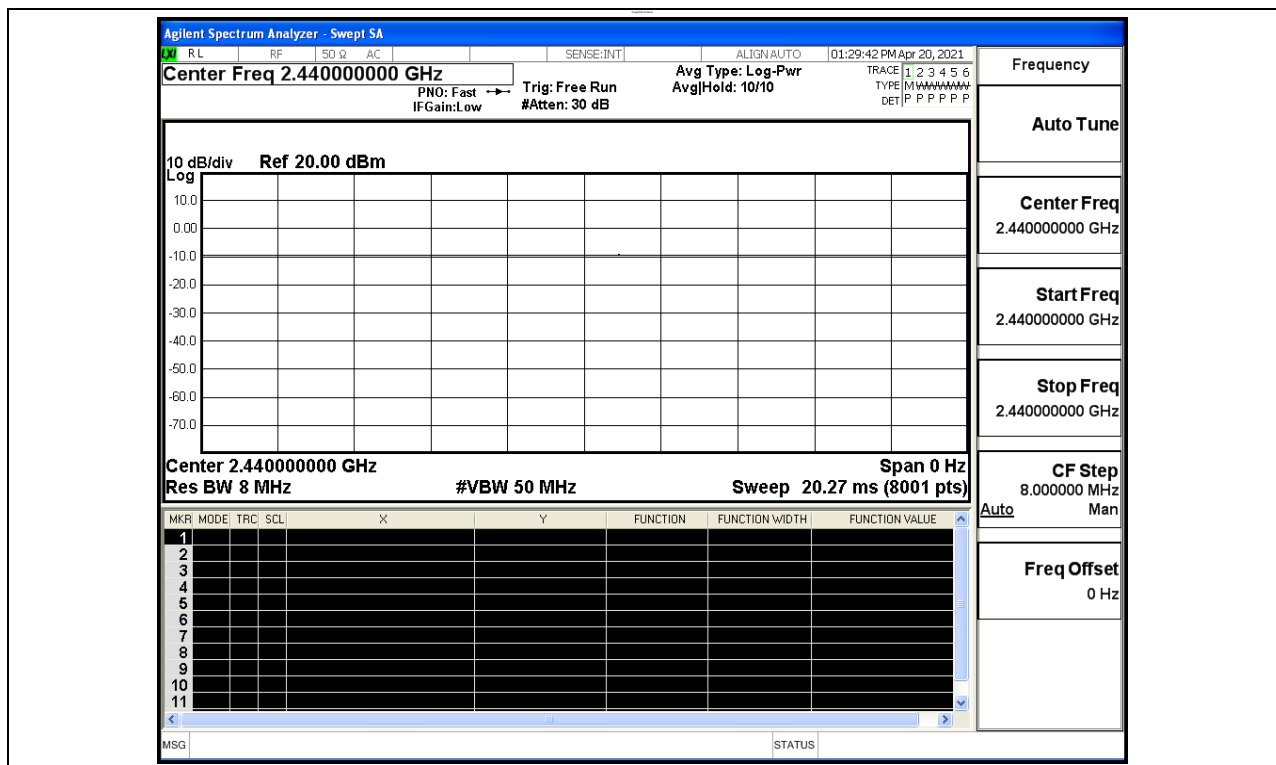
Test Model: WJ-018

Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

B.1 Duty Cycle

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

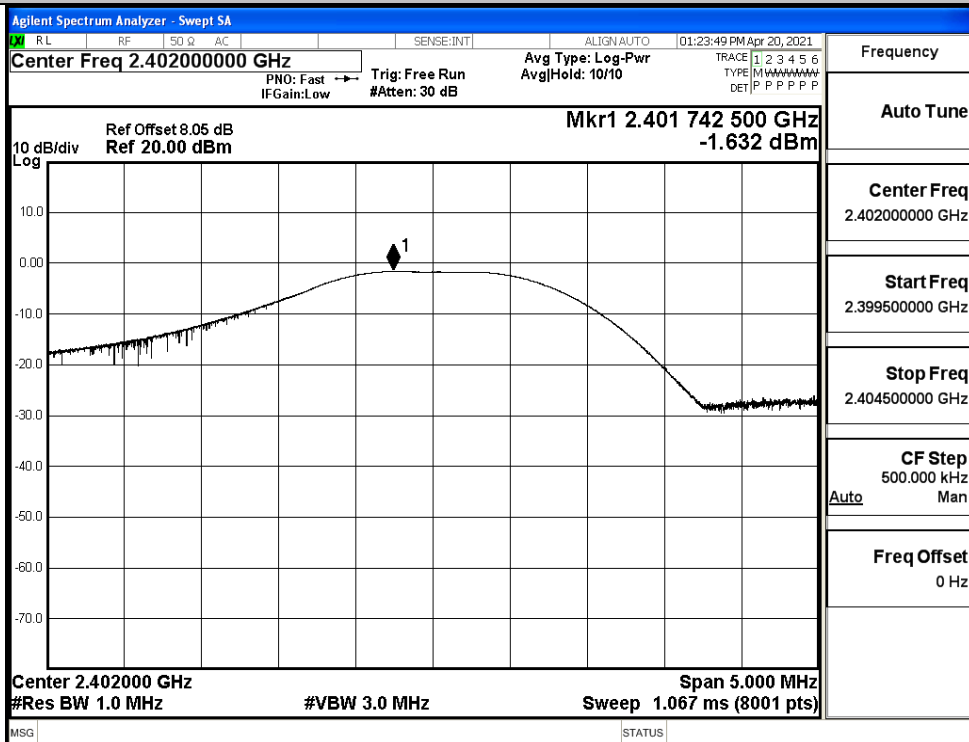


B.2 Maximum Conducted Peak Output Power

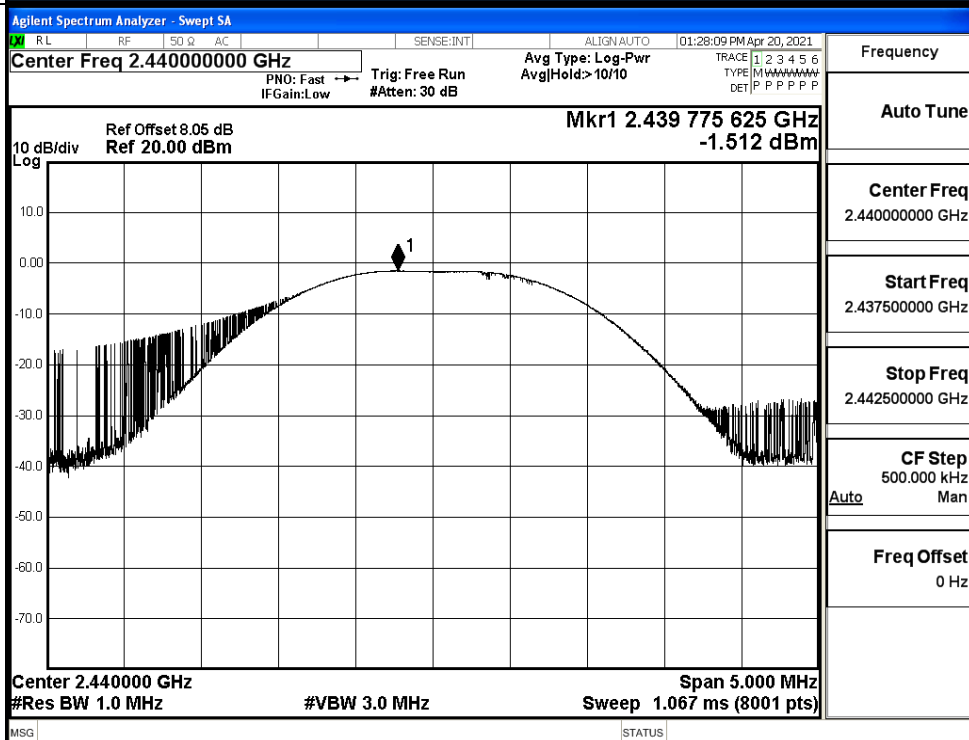
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.632	30	PASS
BT LE	MCH	-1.512	30	PASS
BT LE	HCH	-2.408	30	PASS

Test Graphs

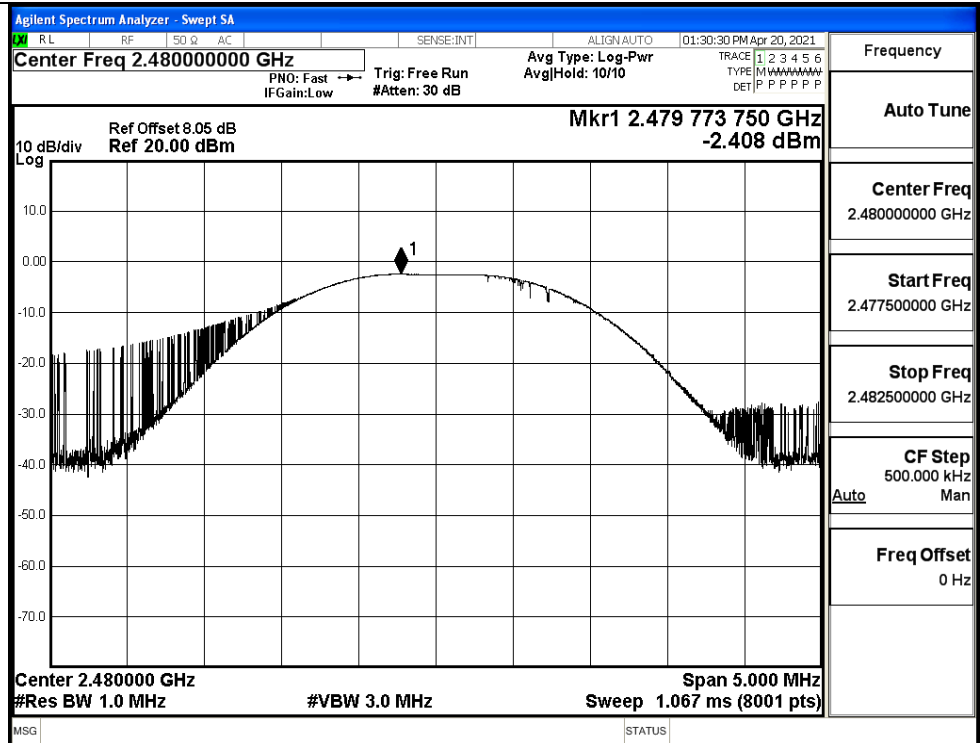
LCH



MCH



HCH

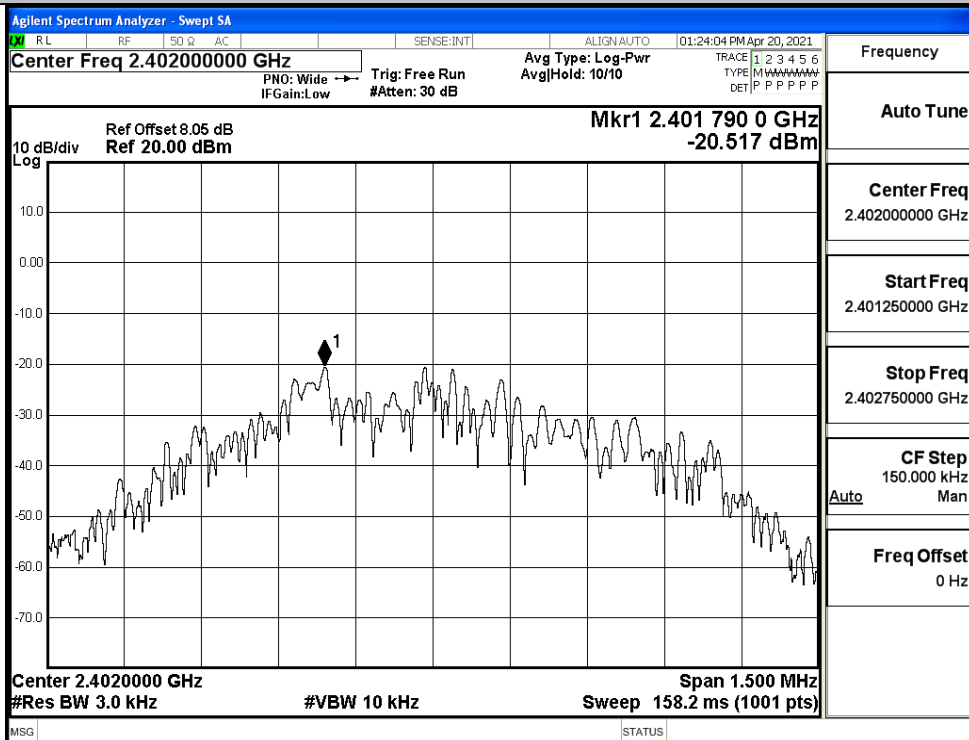


B.3 Maximum Power Spectral Density

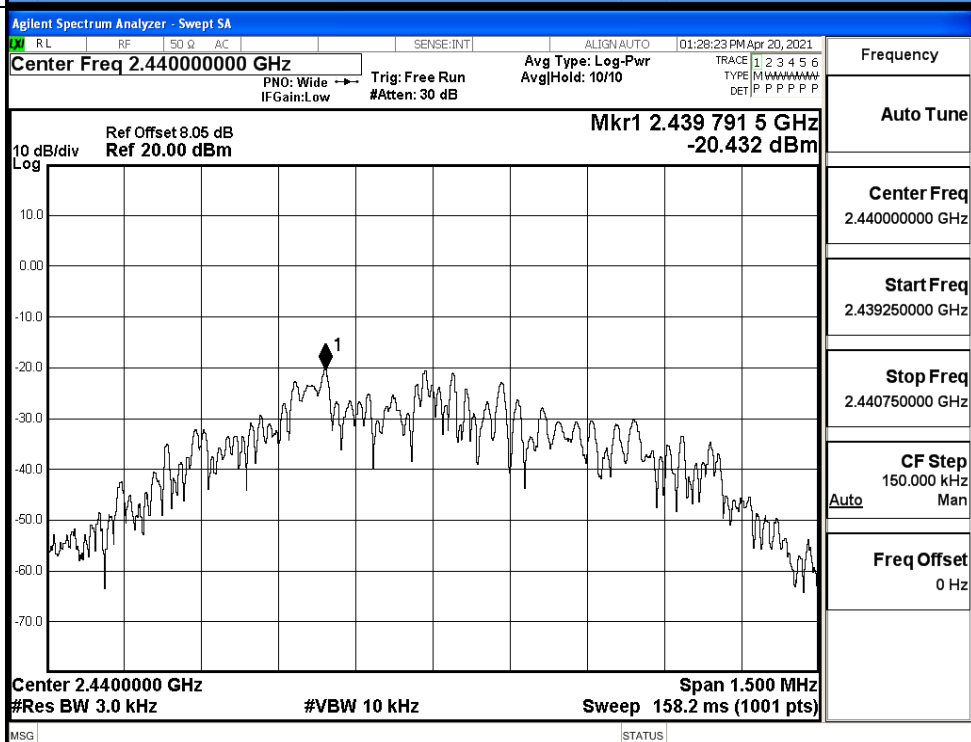
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-20.517	8	PASS
BT LE	MCH	-20.432	8	PASS
BT LE	HCH	-21.327	8	PASS

Test Graphs

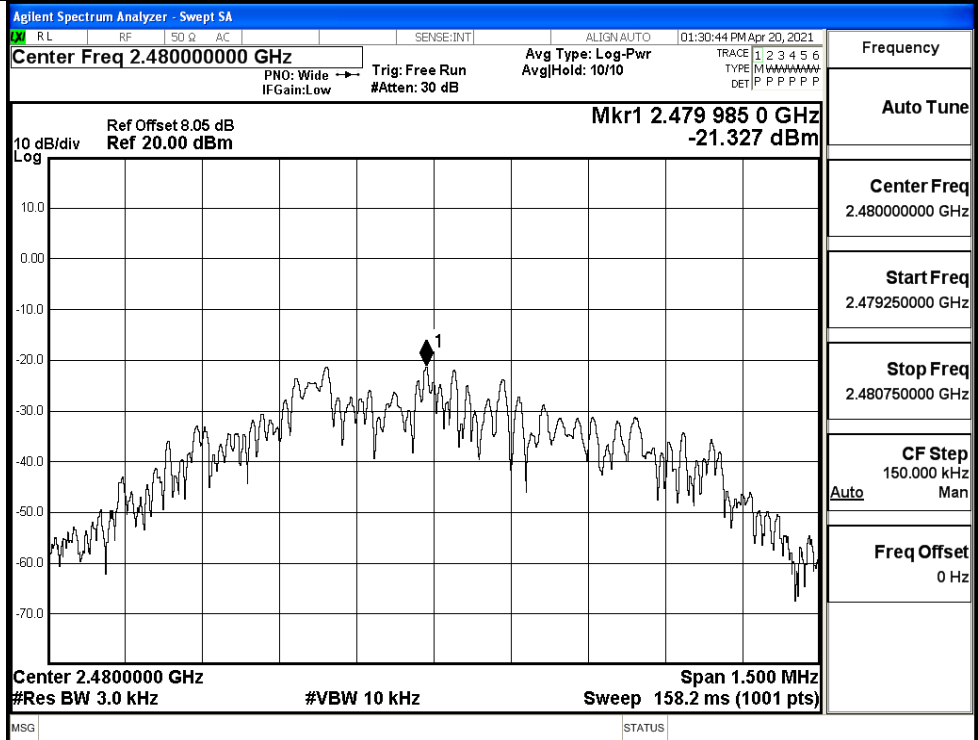
LCH



MCH



HCH

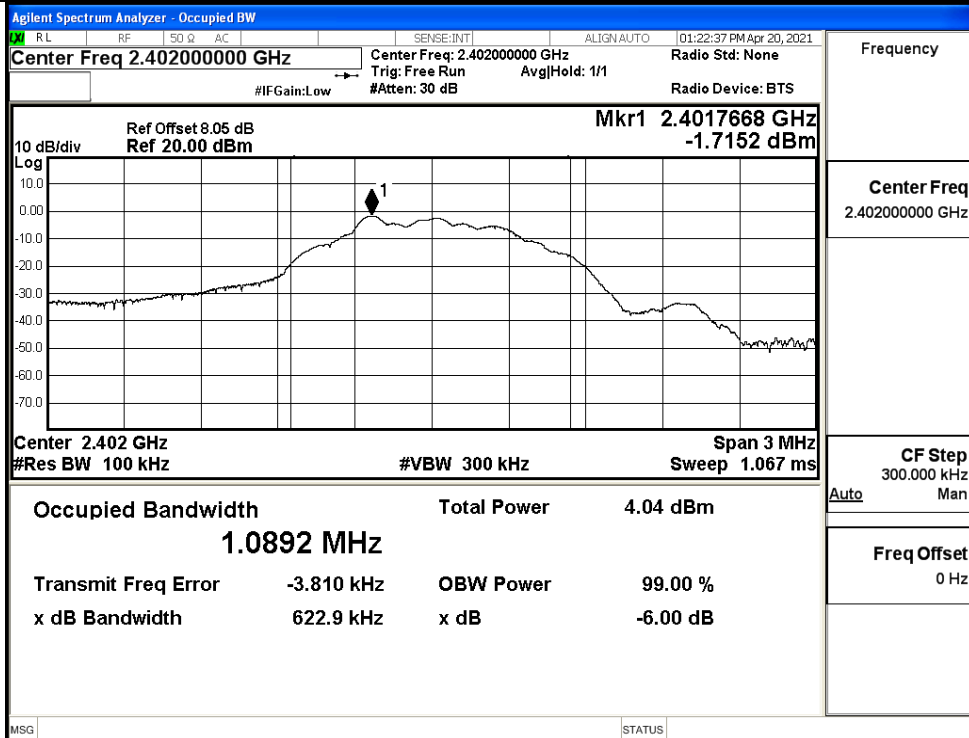


B.4 6dB Bandwidth

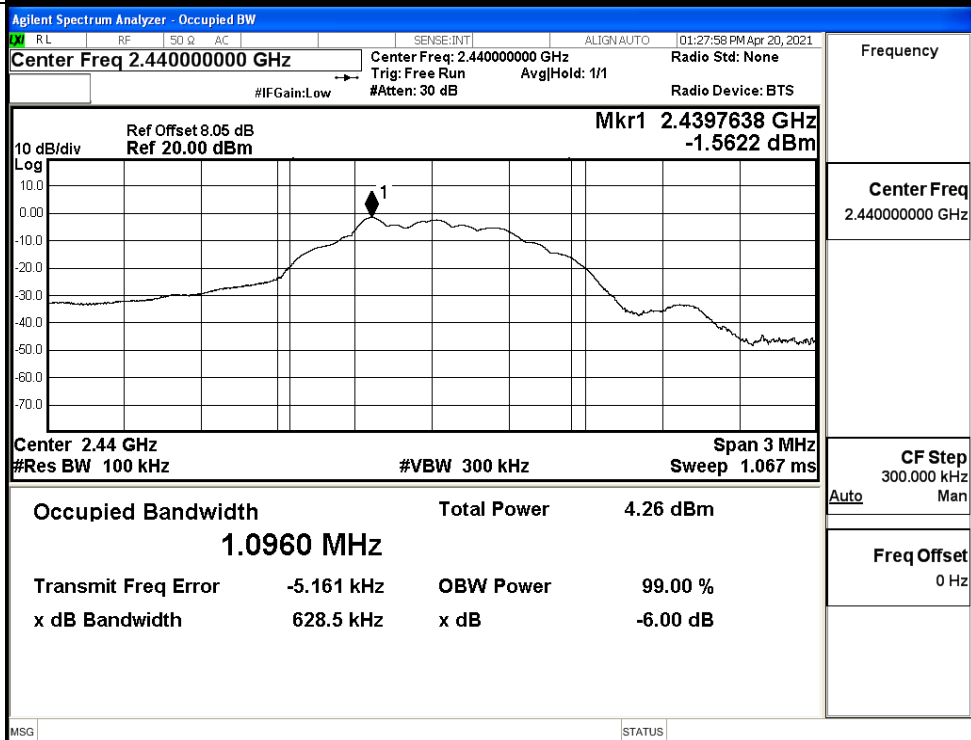
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6229	≥ 0.5	PASS
BT LE	MCH	0.6285	≥ 0.5	PASS
BT LE	HCH	0.6217	≥ 0.5	PASS

Test Graphs

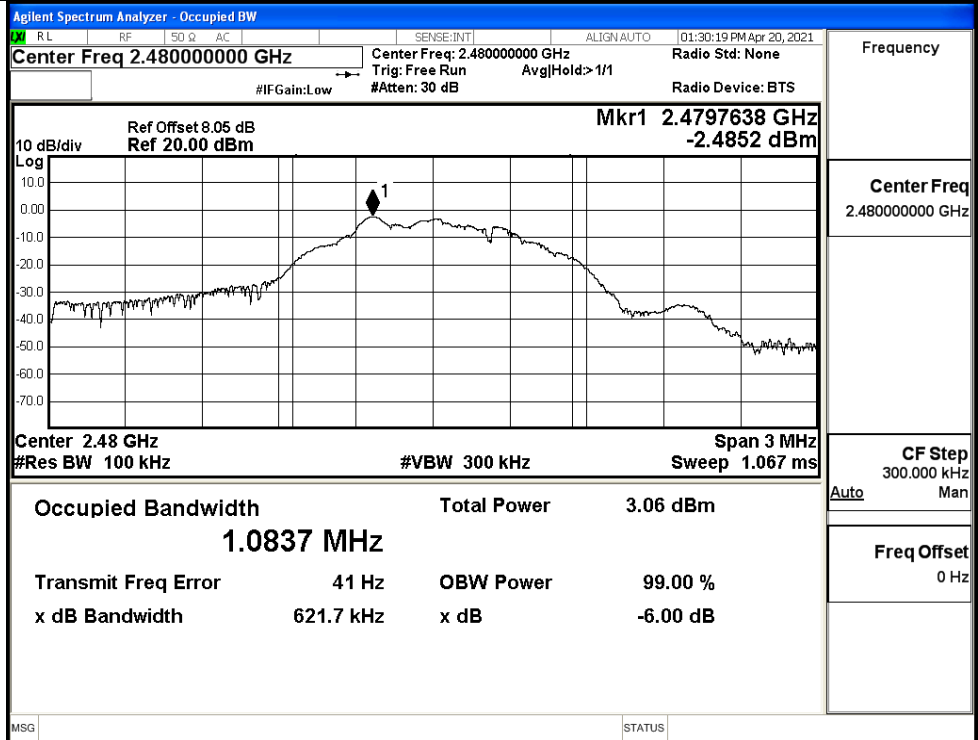
LCH



MCH



HCH

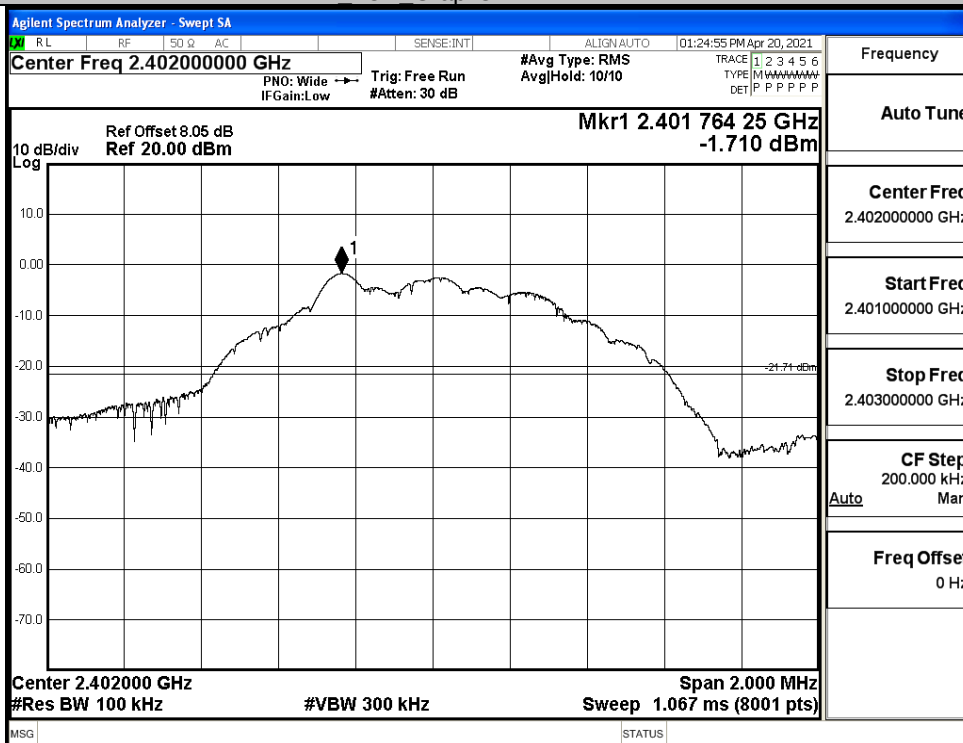


B.5 RF Conducted Spurious Emissions

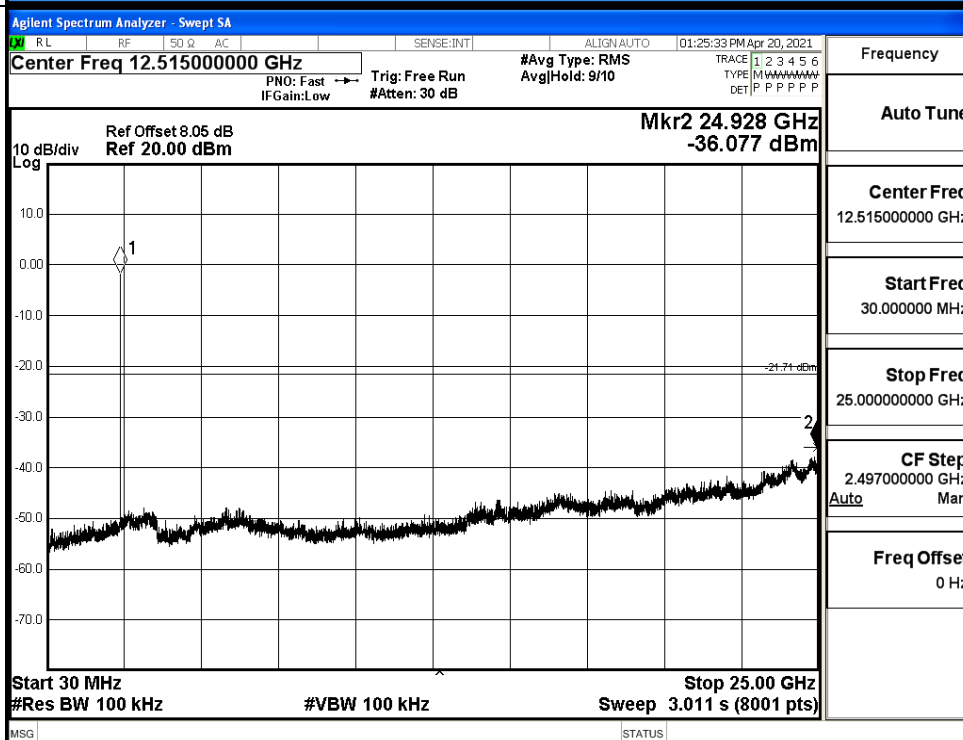
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.71	-36.077	-21.710	PASS
BT LE	MCH	-1.615	-37.358	-21.615	PASS
BT LE	HCH	-2.496	-37.577	-22.496	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

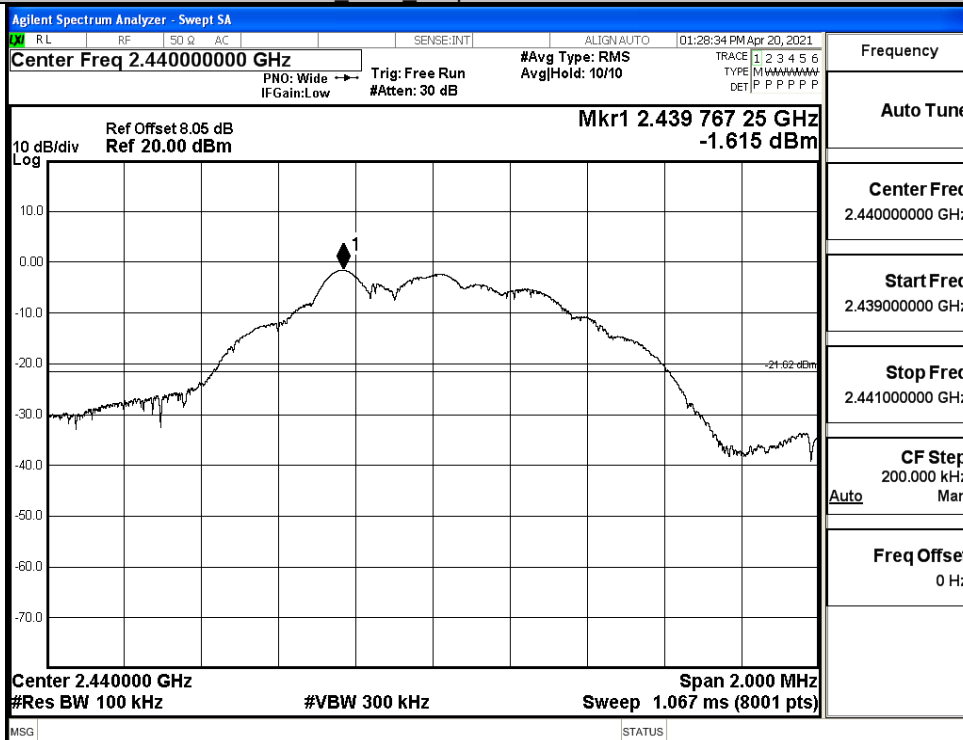


Puw/BT LE/LCH

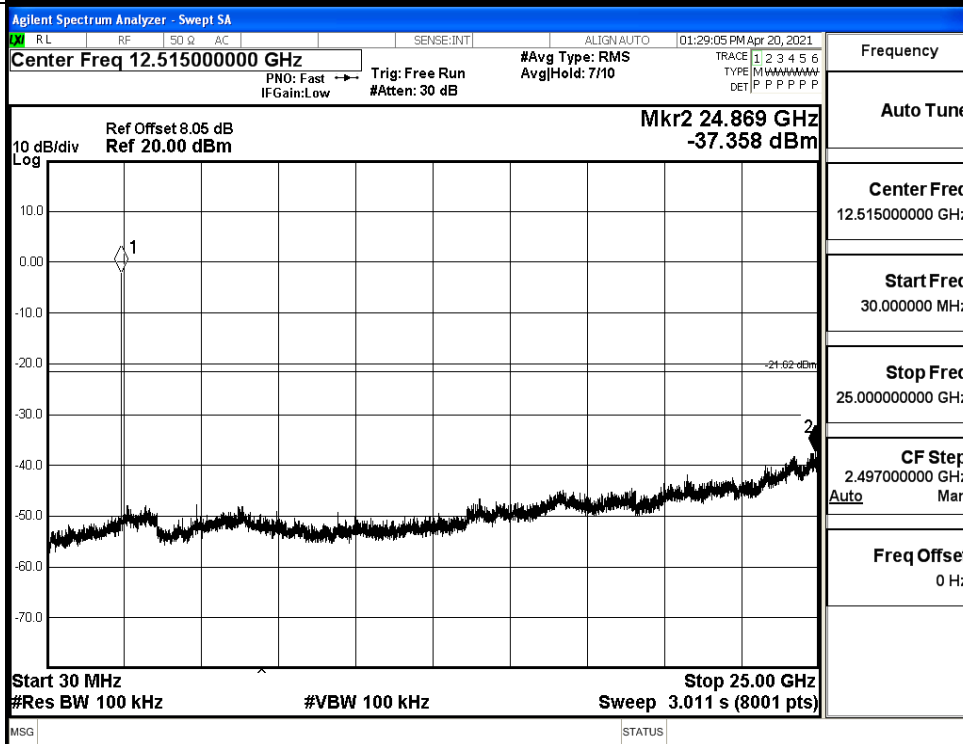


BT LE MCH Graphs

Pref/BT LE/MCH

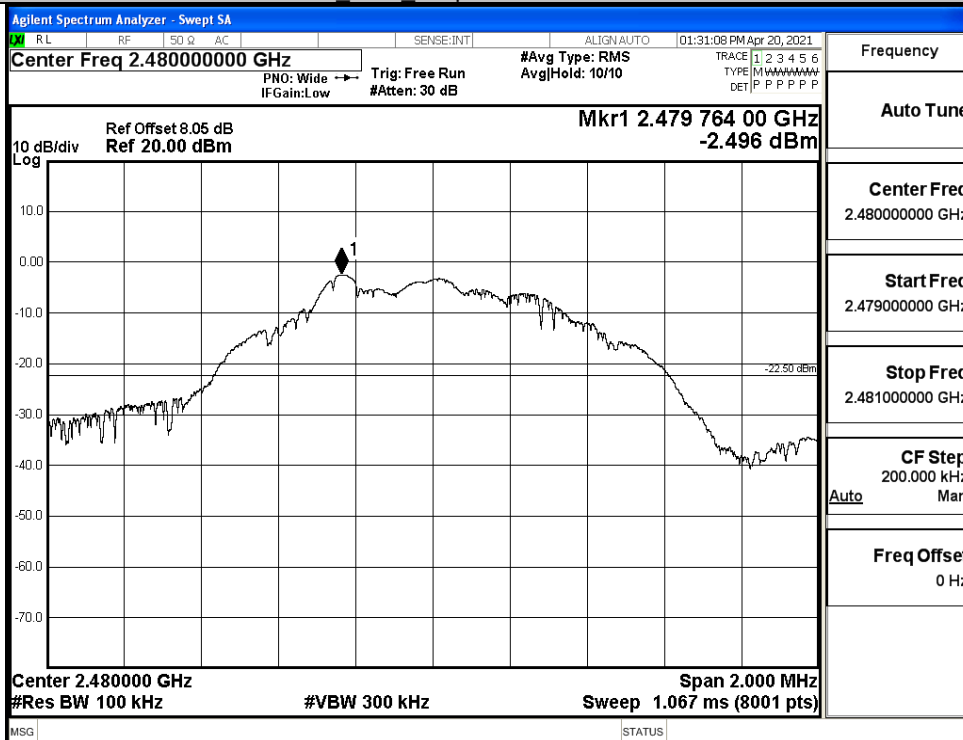


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

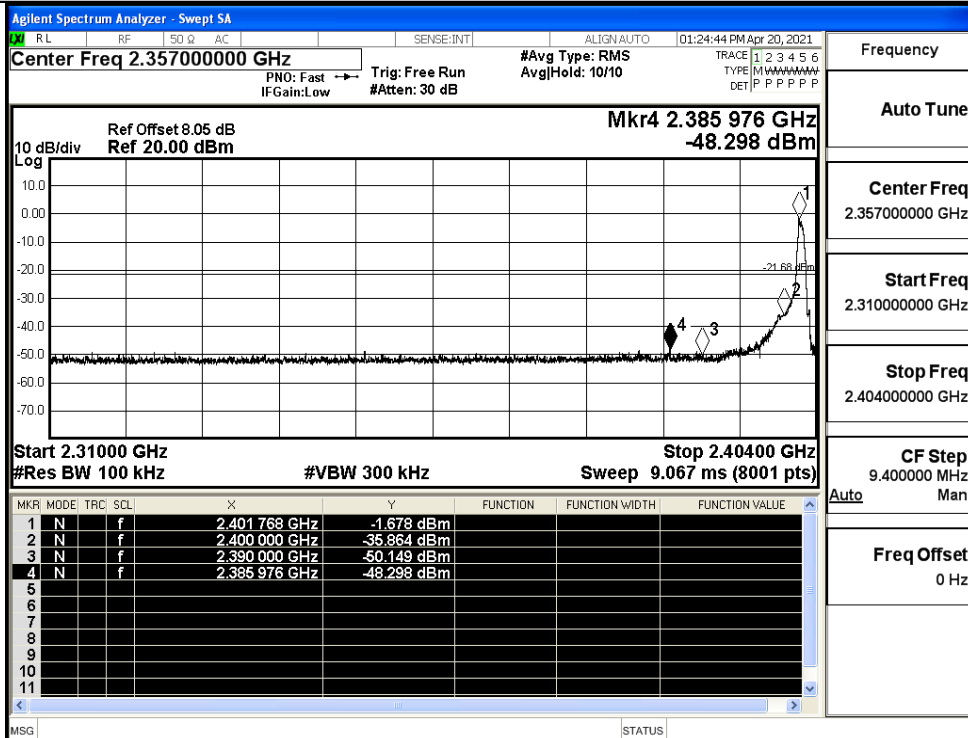


B.6 Band-edge for RF Conducted Emissions

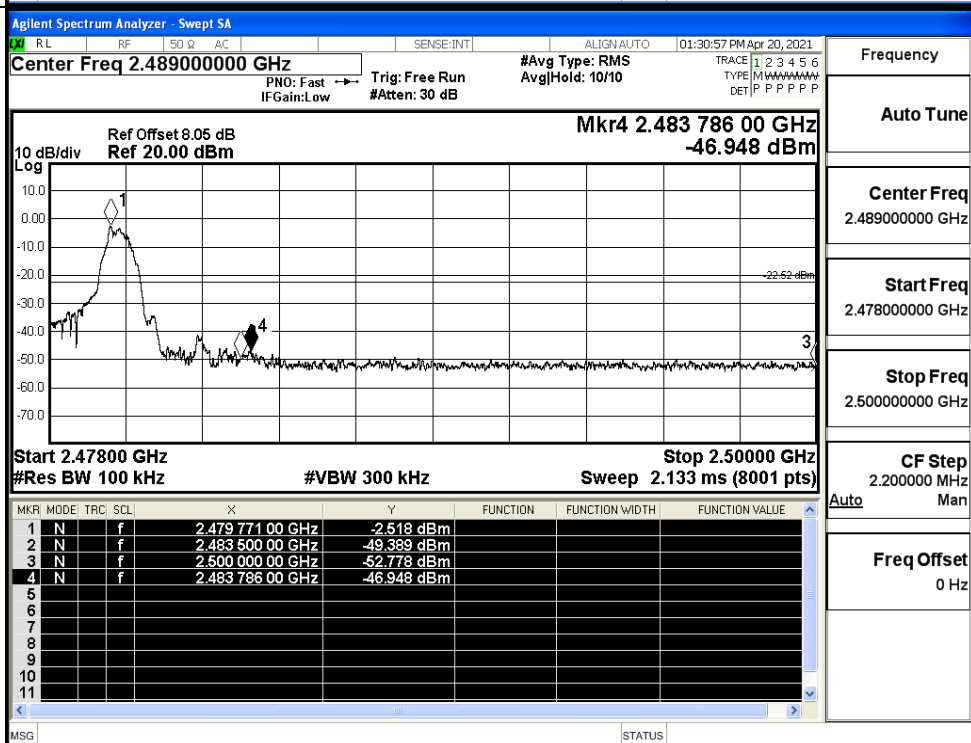
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.678	-48.298	-21.68	PASS
BT LE	HCH	-2.518	-46.948	-22.52	PASS

Test Graphs

LCH



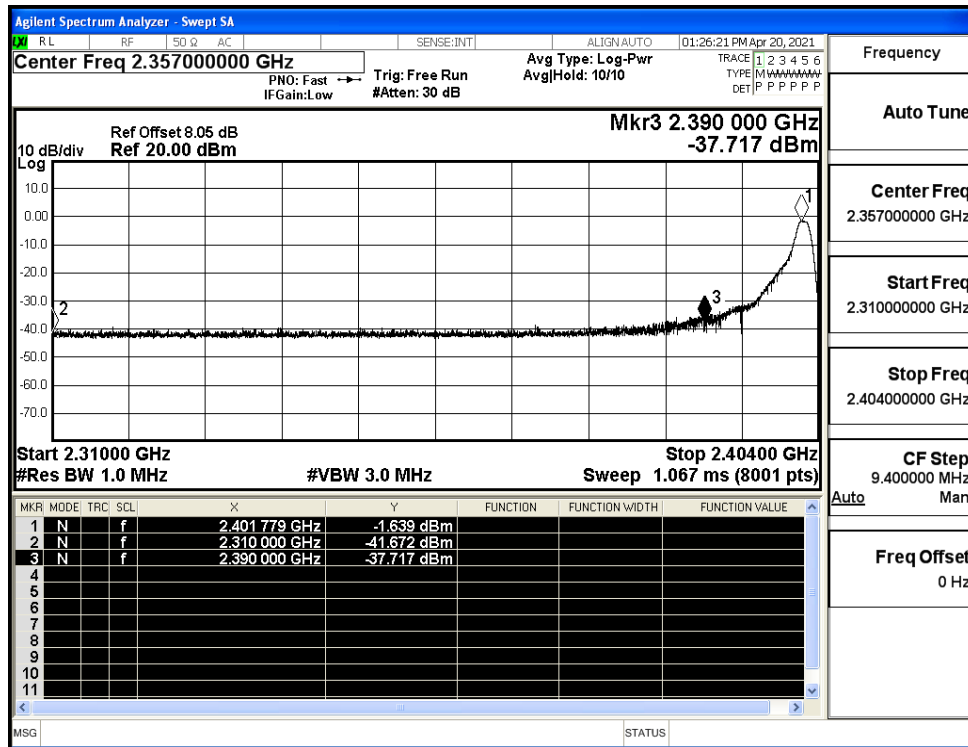
HCH



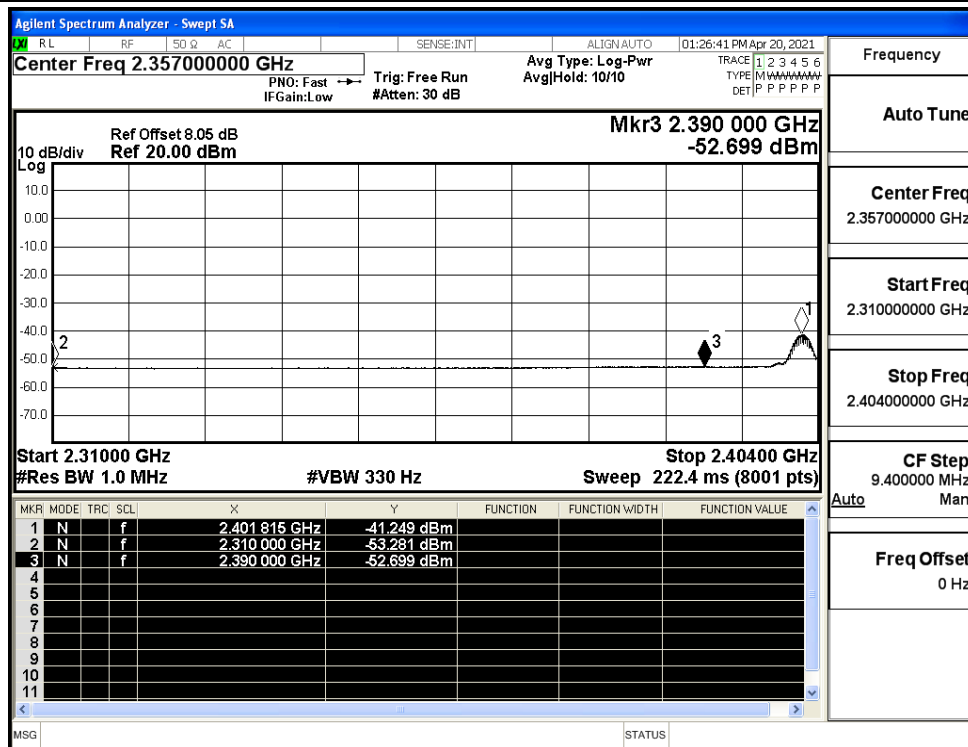
B.7 Restrict-band band-edge measurements

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	-41.67	2.0	0	55.56	PEAK	74	PASS
		Ant1	2310.0	-53.28	2.0	0	43.95	AV	54	PASS
		Ant1	2390.0	-37.72	2.0	0	59.51	PEAK	74	PASS
		Ant1	2390.0	-52.70	2.0	0	44.53	AV	54	PASS
	2480	Ant1	2483.5	-31.13	2.0	0	66.1	PEAK	74	PASS
		Ant1	2483.5	-51.75	2.0	0	45.48	AV	54	PASS
		Ant1	2500.0	-41.75	2.0	0	55.48	PEAK	74	PASS
		Ant1	2500.0	-52.26	2.0	0	44.97	AV	54	PASS

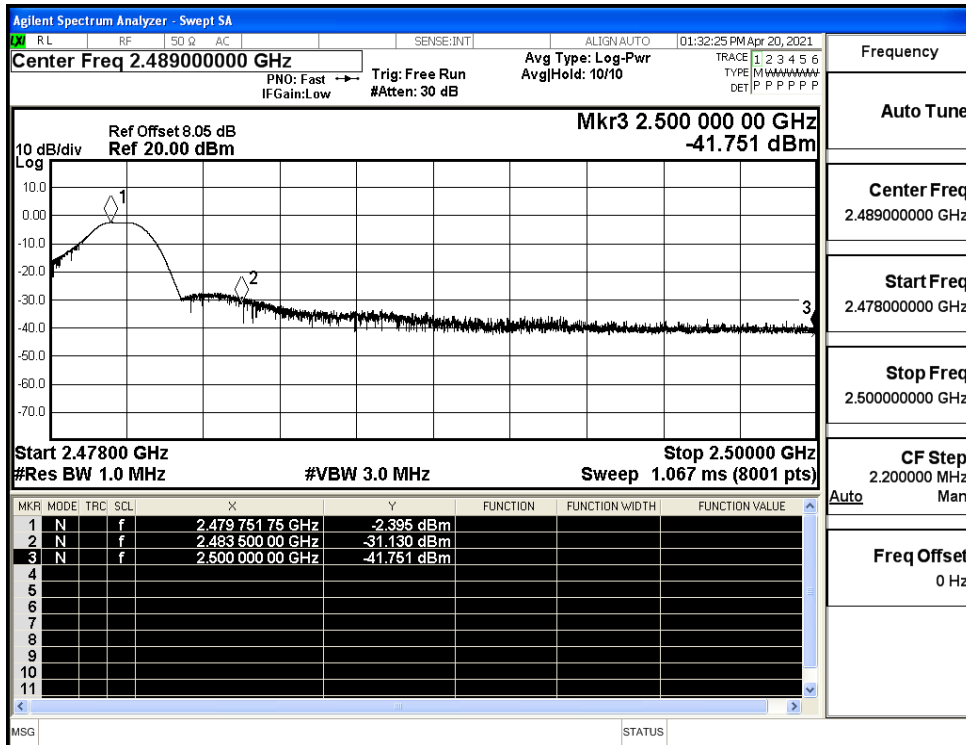
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

