

Appendix B

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

Product Name: Powerbar

Trade Mark: Kicker

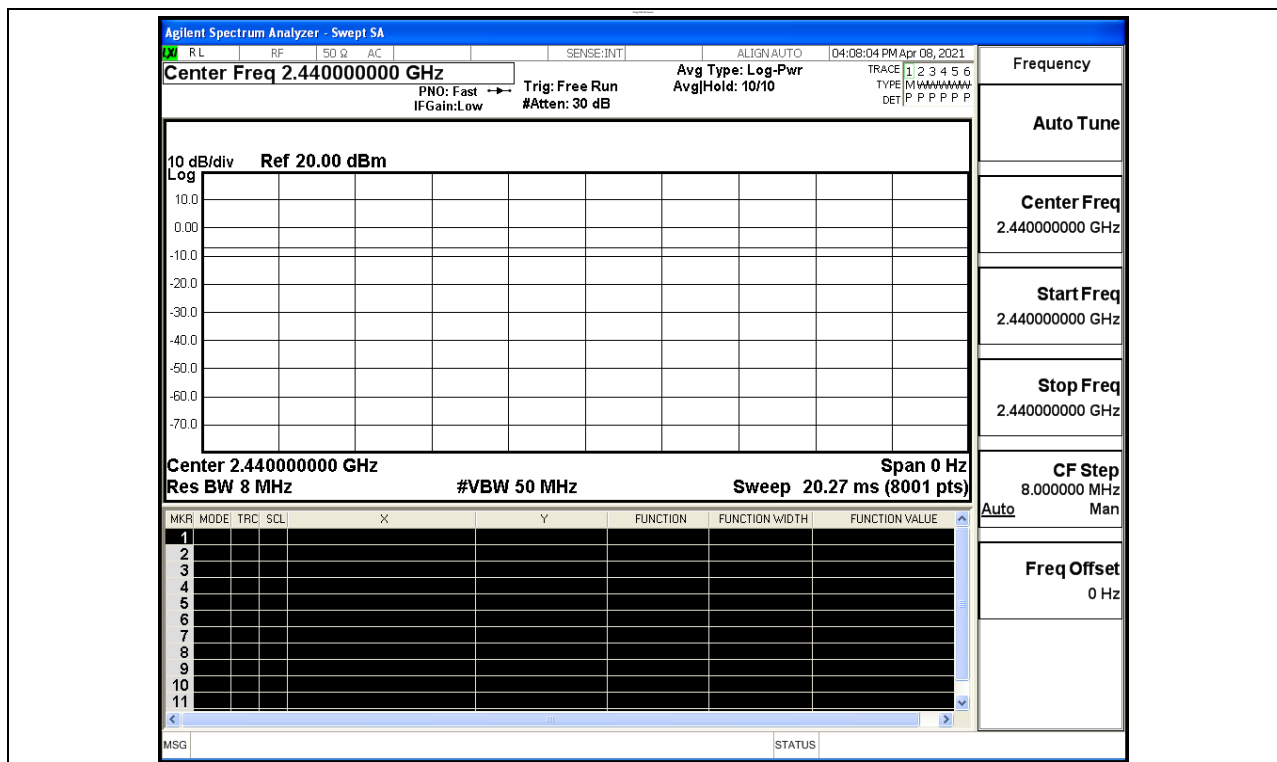
Test Model: KPB2

Environmental Conditions

Temperature:	24.9°C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

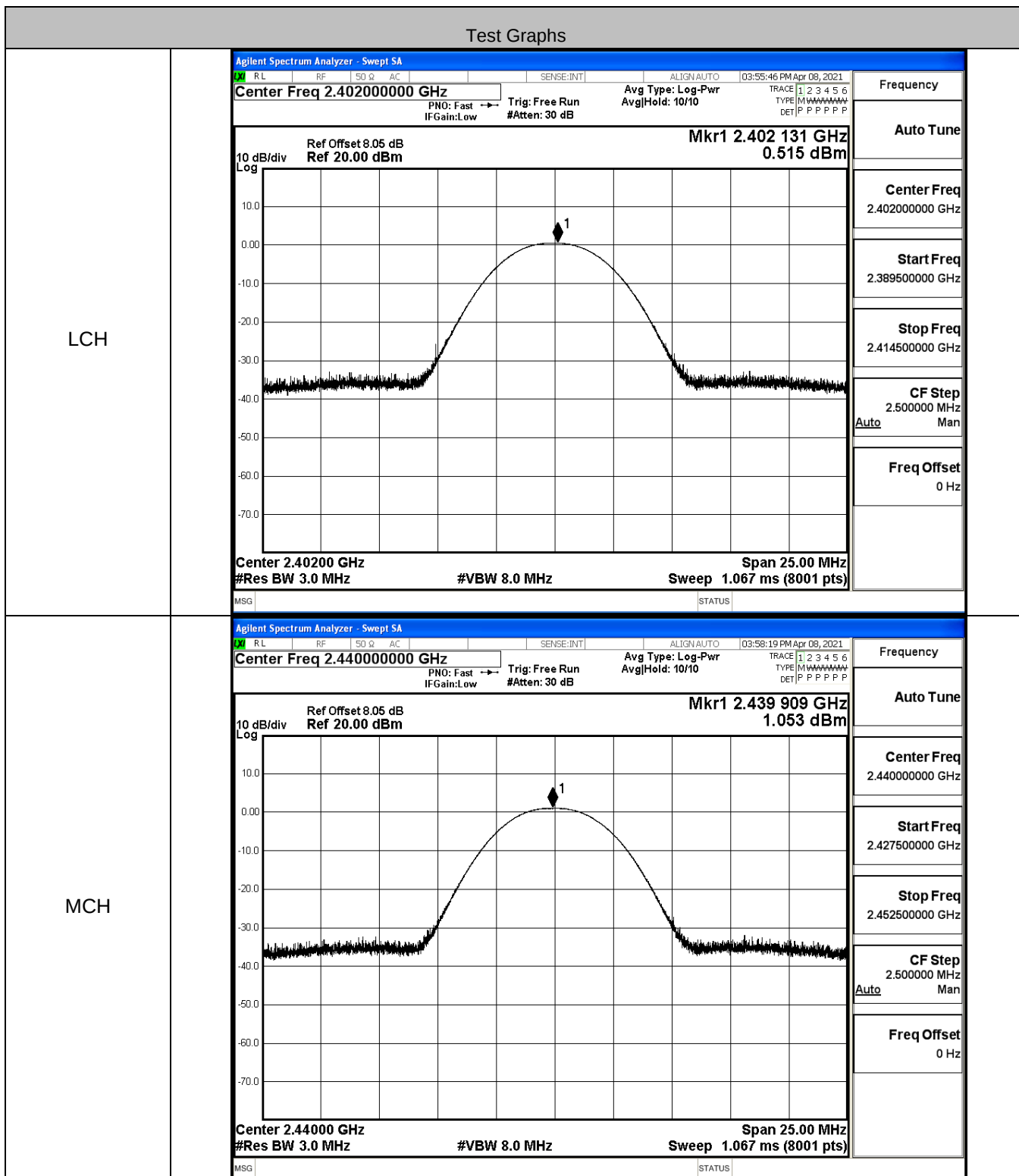
B.1 Duty Cycle

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

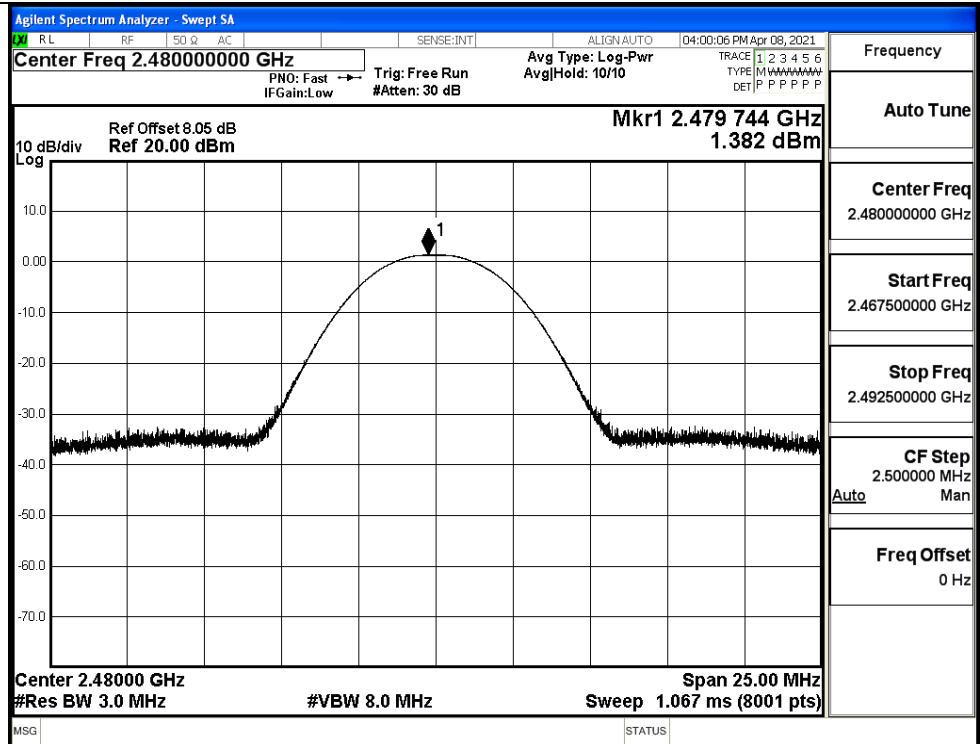


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.515	30	PASS
BT LE	MCH	1.053	30	PASS
BT LE	HCH	1.382	30	PASS



HCH

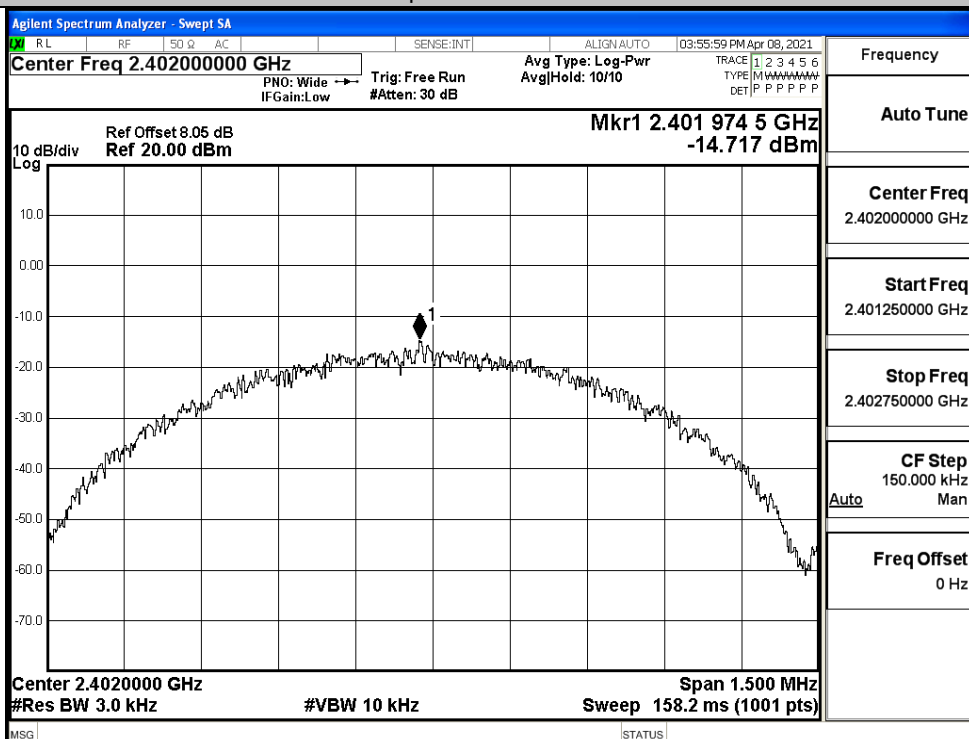


B.3 Maximum Power Spectral Density

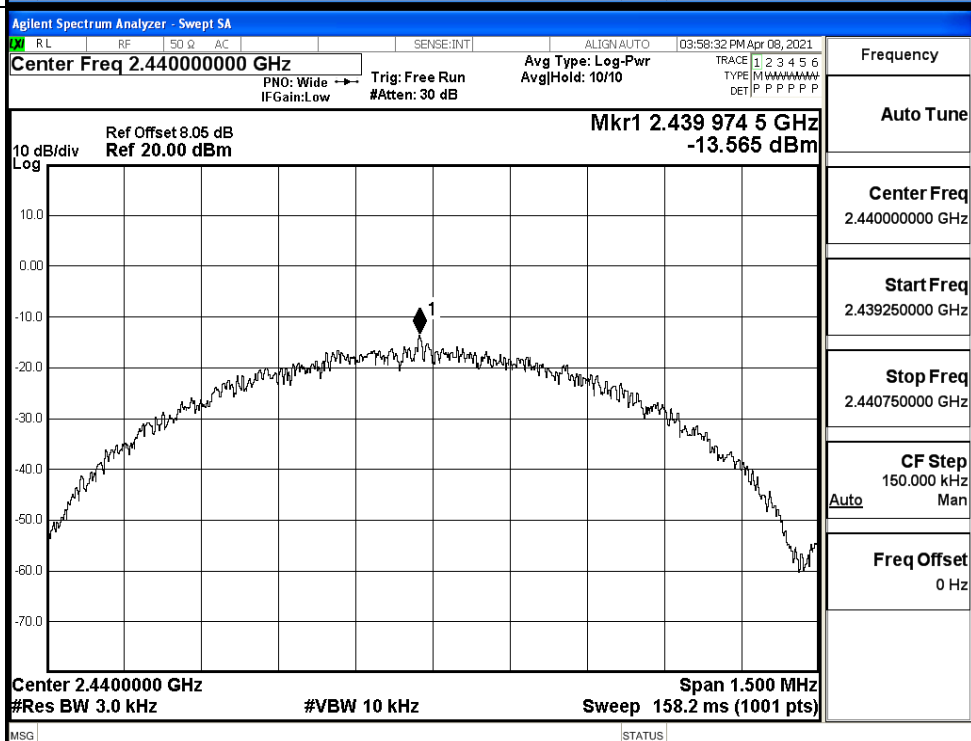
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.717	8	PASS
BT LE	MCH	-13.565	8	PASS
BT LE	HCH	-13.243	8	PASS

Test Graphs

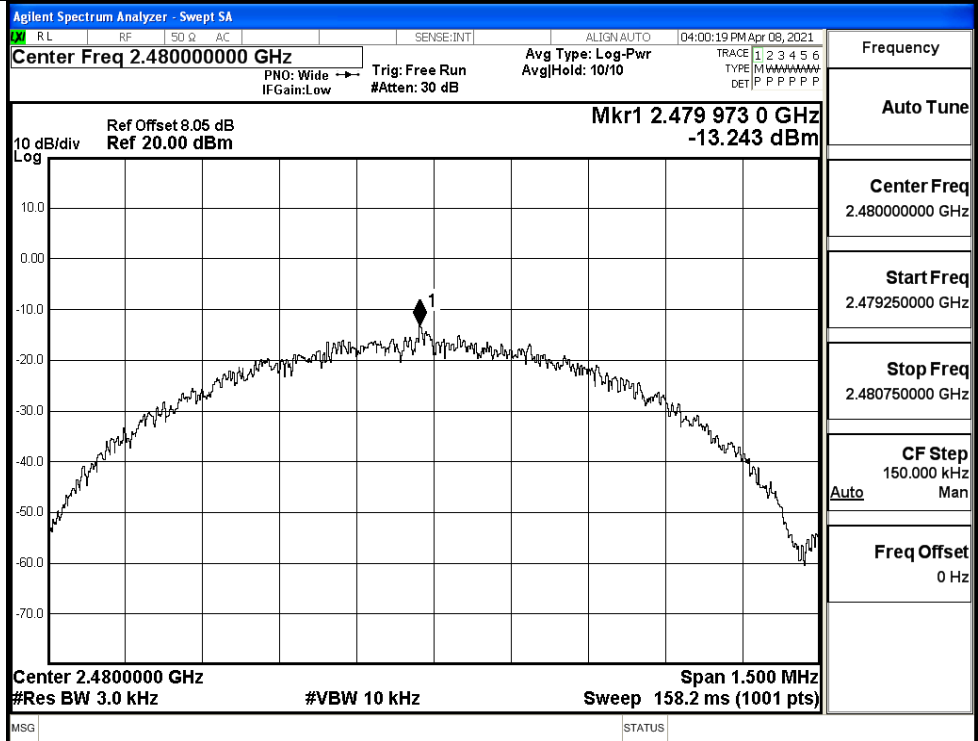
LCH



MCH



HCH

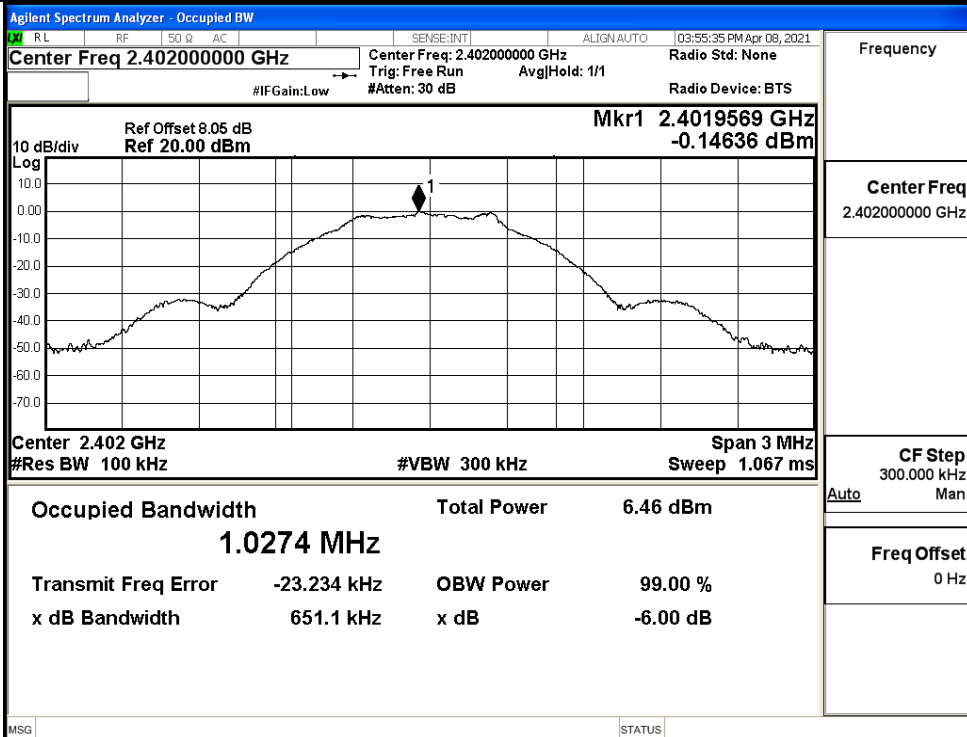


B.4 6dB Bandwidth

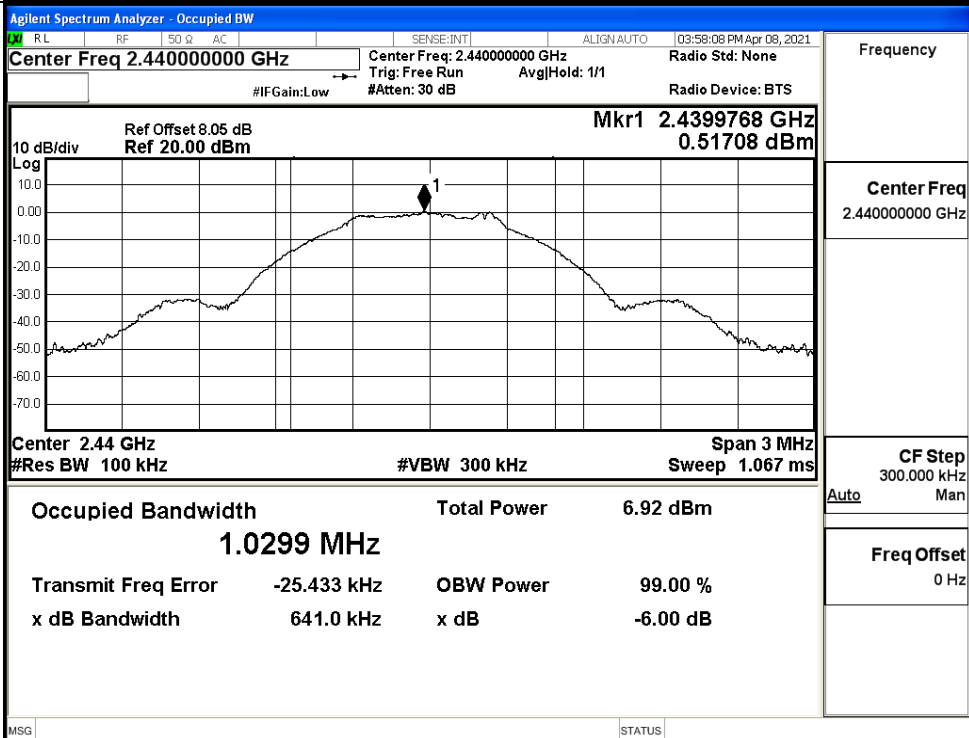
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6511	≥ 0.5	PASS
BT LE	MCH	0.6410	≥ 0.5	PASS
BT LE	HCH	0.6492	≥ 0.5	PASS

Test Graphs

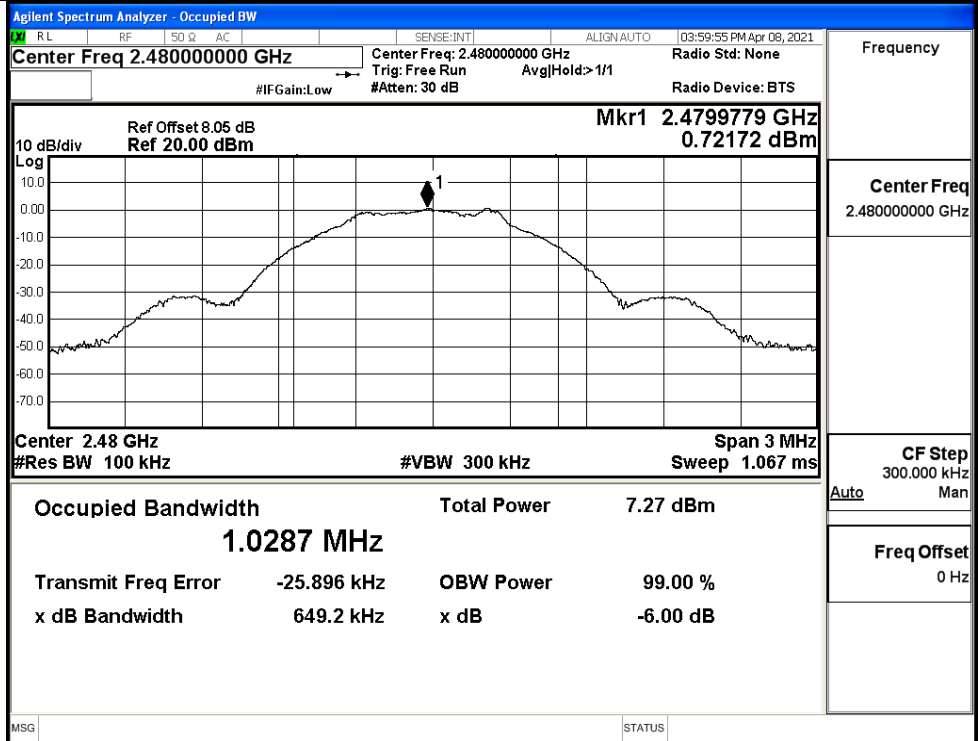
LCH



MCH



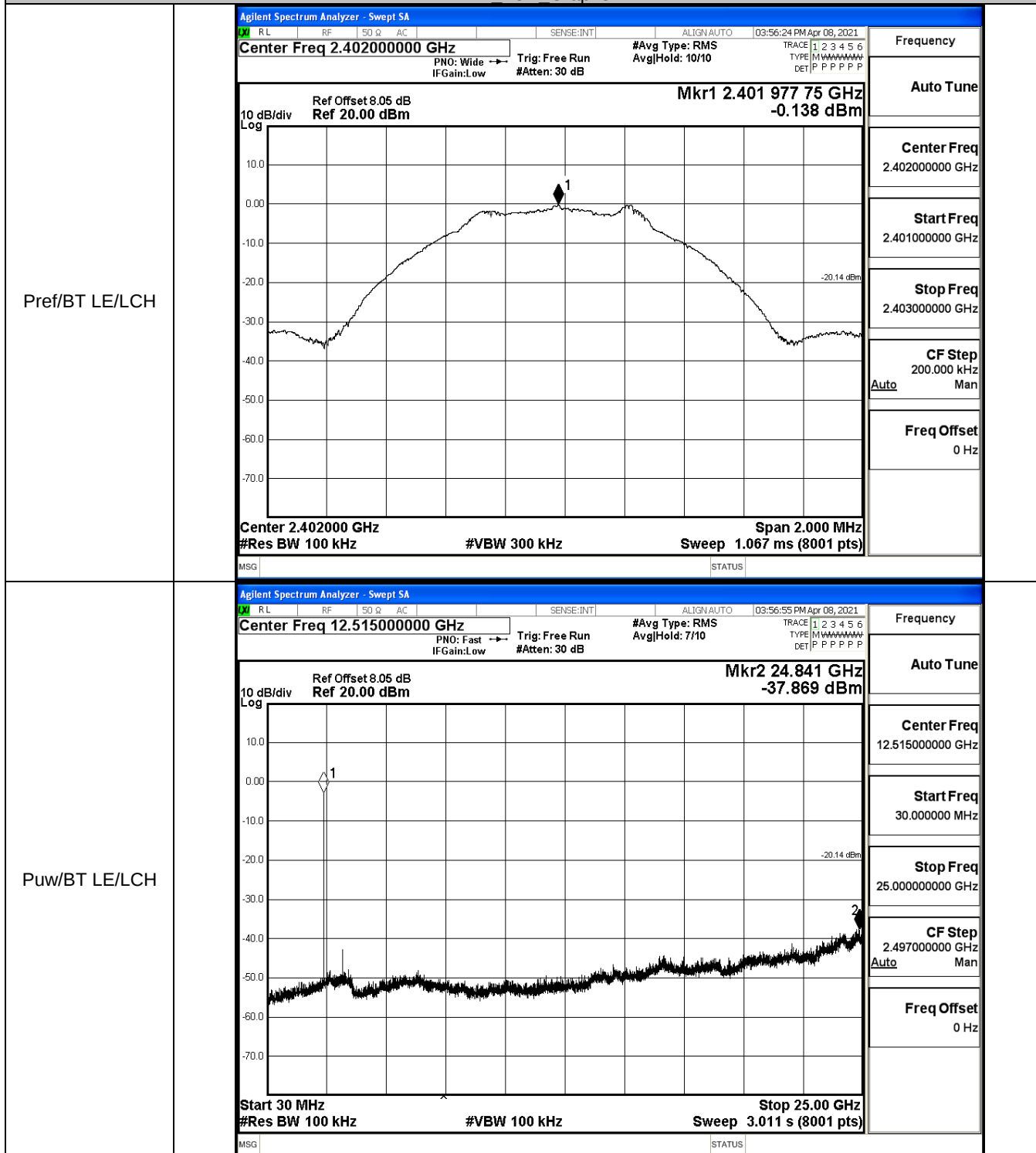
HCH



B.6 RF Conducted Spurious Emissions

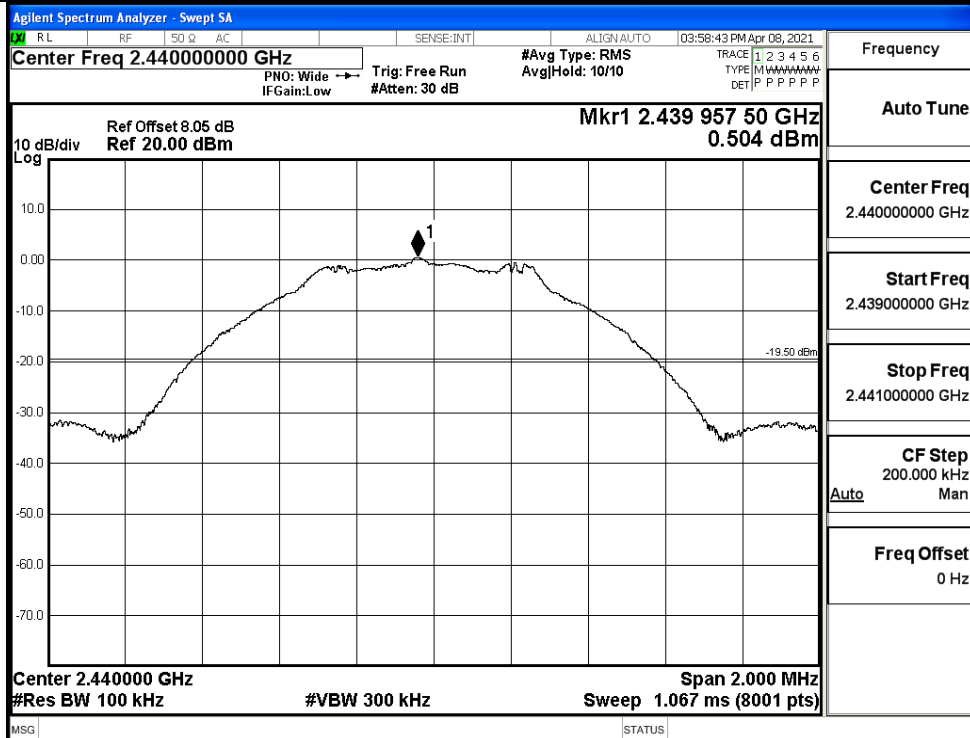
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.138	-37.869	-20.138	PASS
BT LE	MCH	0.504	-36.628	-19.496	PASS
BT LE	HCH	0.566	-37.908	-19.434	PASS

BT LE LCH Graphs

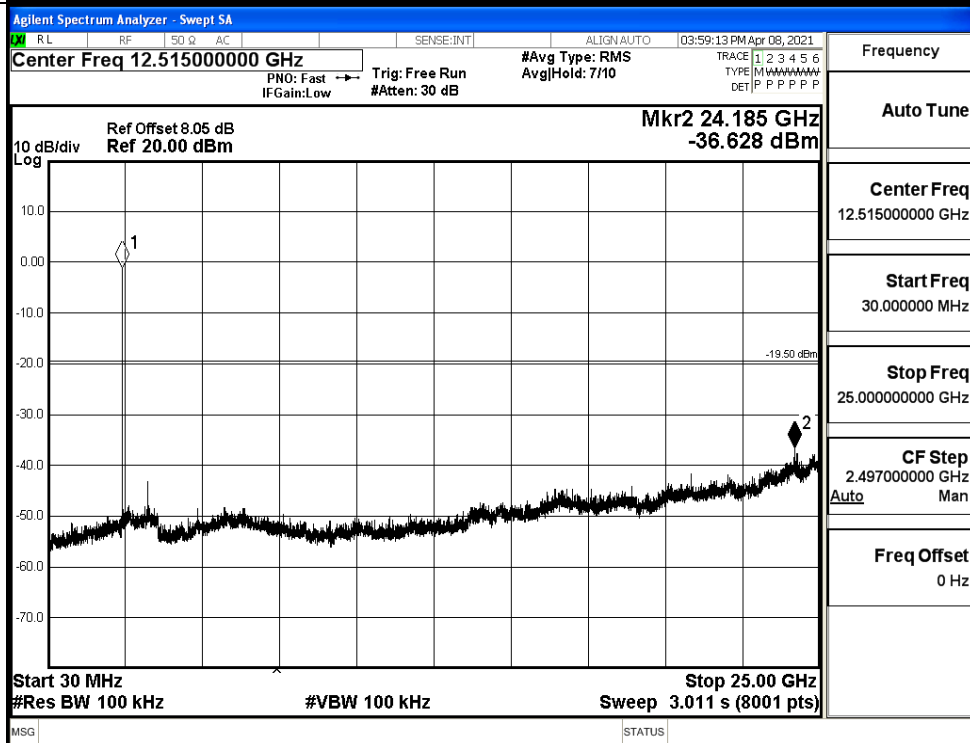


BT LE MCH Graphs

Pref/BT LE/MCH

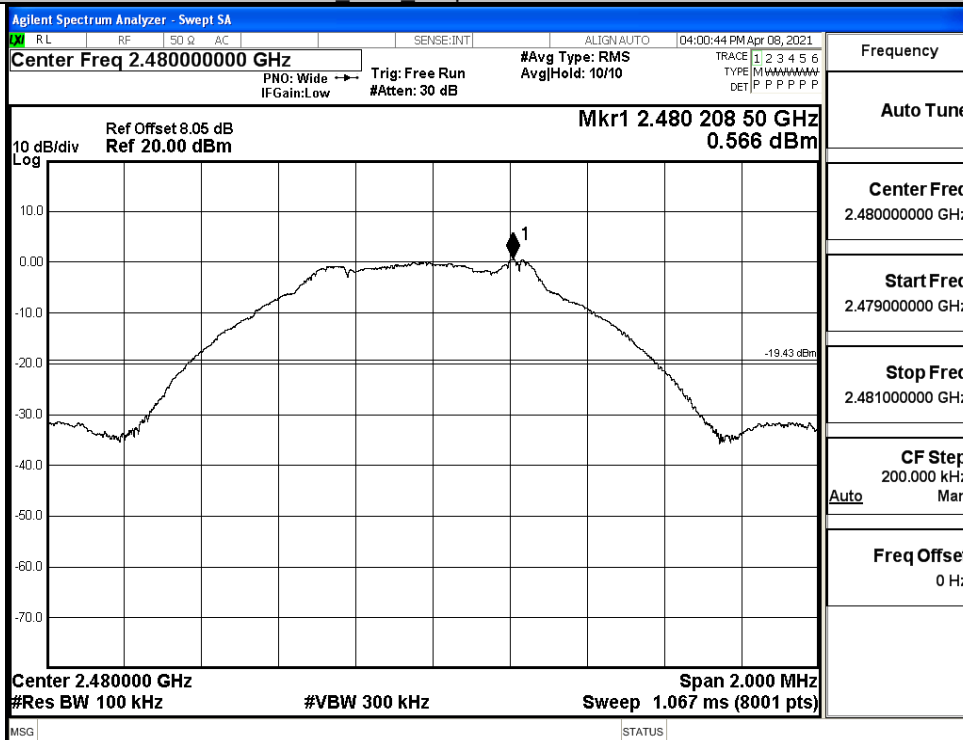


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

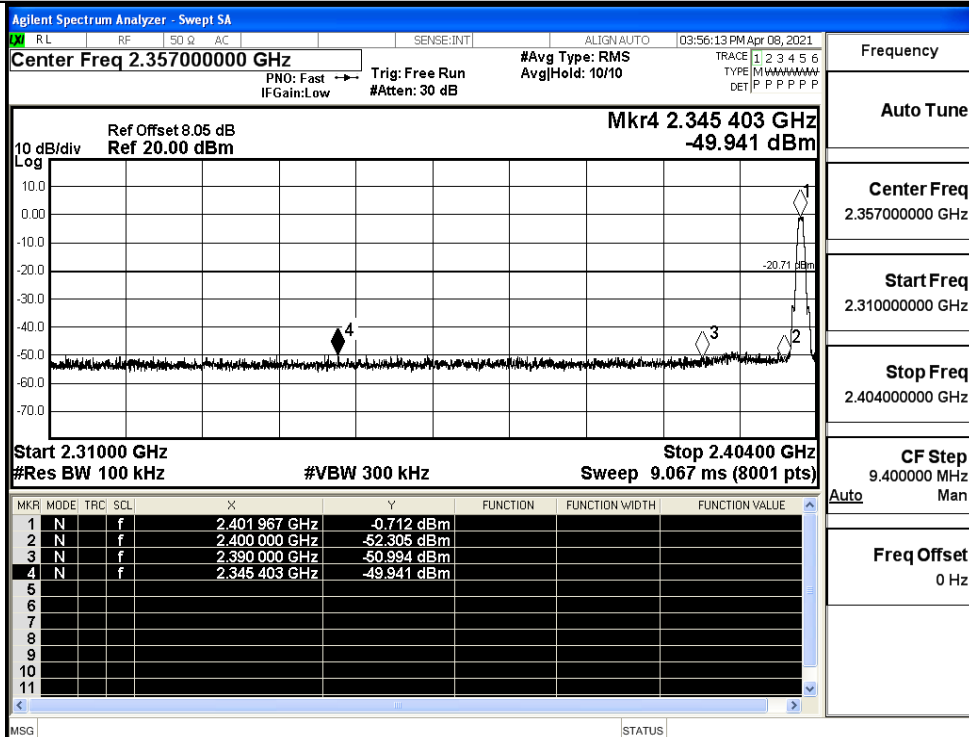


B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.712	-49.941	-20.71	PASS
BT LE	HCH	1.065	-46.383	-18.94	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

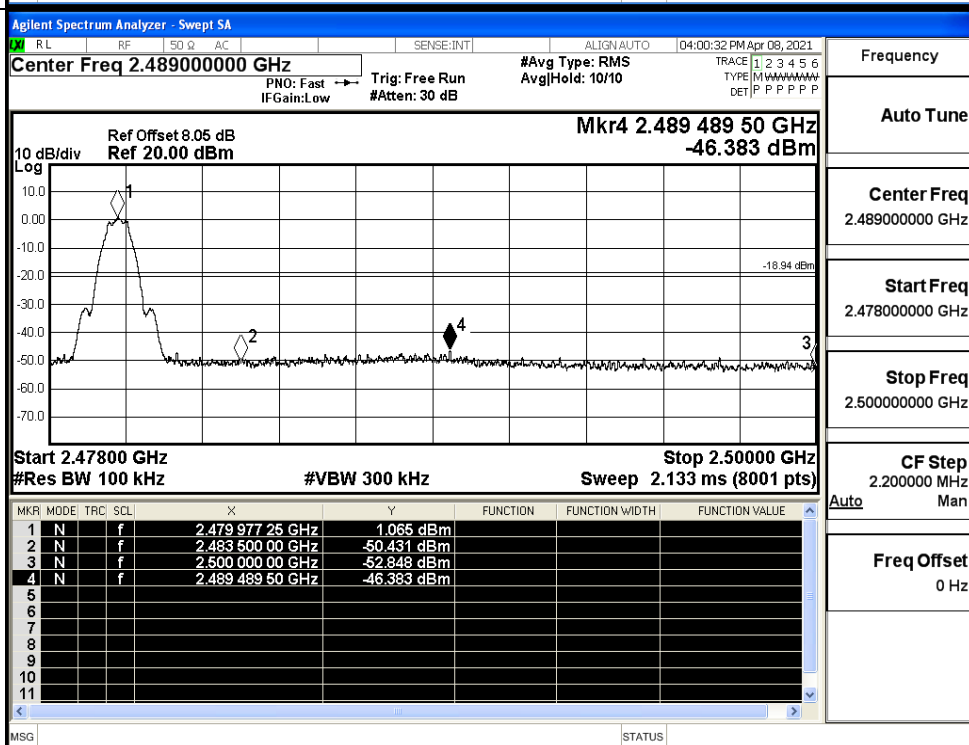
9.400000 MHz

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

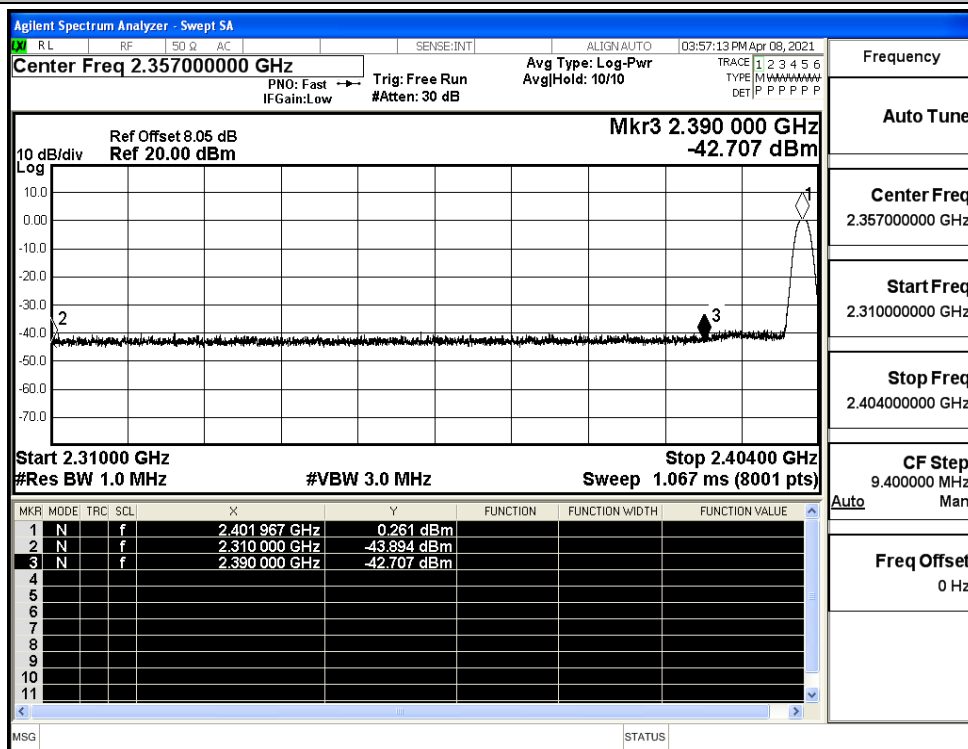
Freq Offset

0 Hz

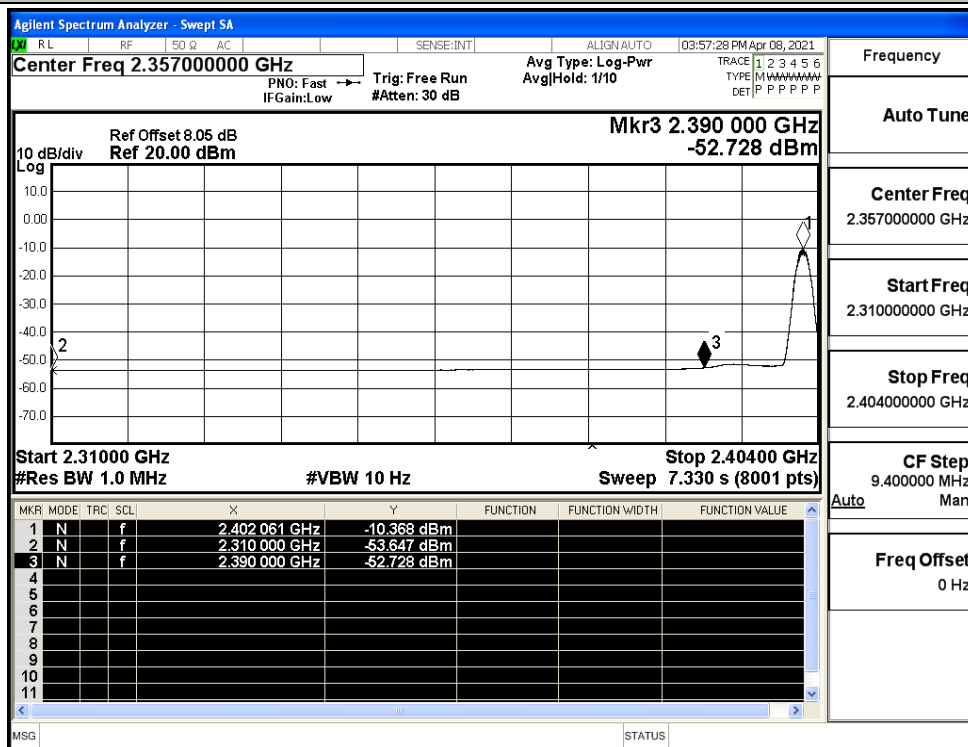
B.8 Restrict-band band-edge measurements

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	-43.89	2.0	0	51.36	PEAK	74	PASS
		Ant1	2310.0	-53.65	2.0	0	41.61	AV	54	PASS
		Ant1	2390.0	-42.71	2.0	0	52.55	PEAK	74	PASS
		Ant1	2390.0	-52.73	2.0	0	42.53	AV	54	PASS
	2480	Ant1	2483.5	-40.85	2.0	0	54.41	PEAK	74	PASS
		Ant1	2483.5	-51.37	2.0	0	43.89	AV	54	PASS
		Ant1	2500.0	-42.01	2.0	0	53.25	PEAK	74	PASS
		Ant1	2500.0	-52.45	2.0	0	42.80	AV	54	PASS

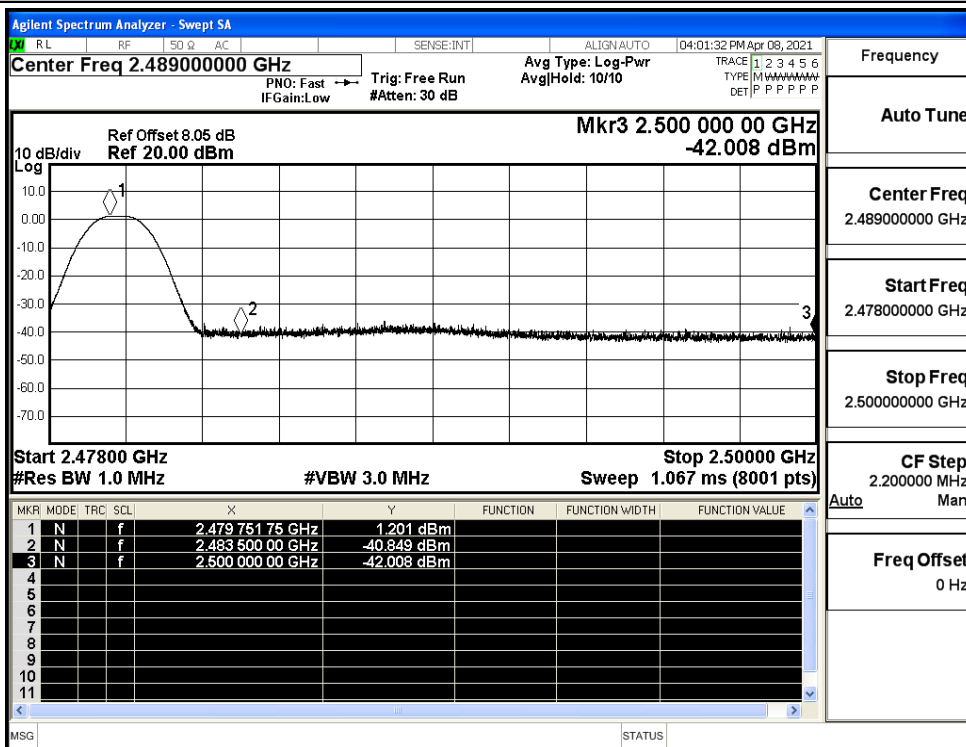
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

