

Appendix A

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

Product Name: Sleep Headphones

Trade Mark: N/A

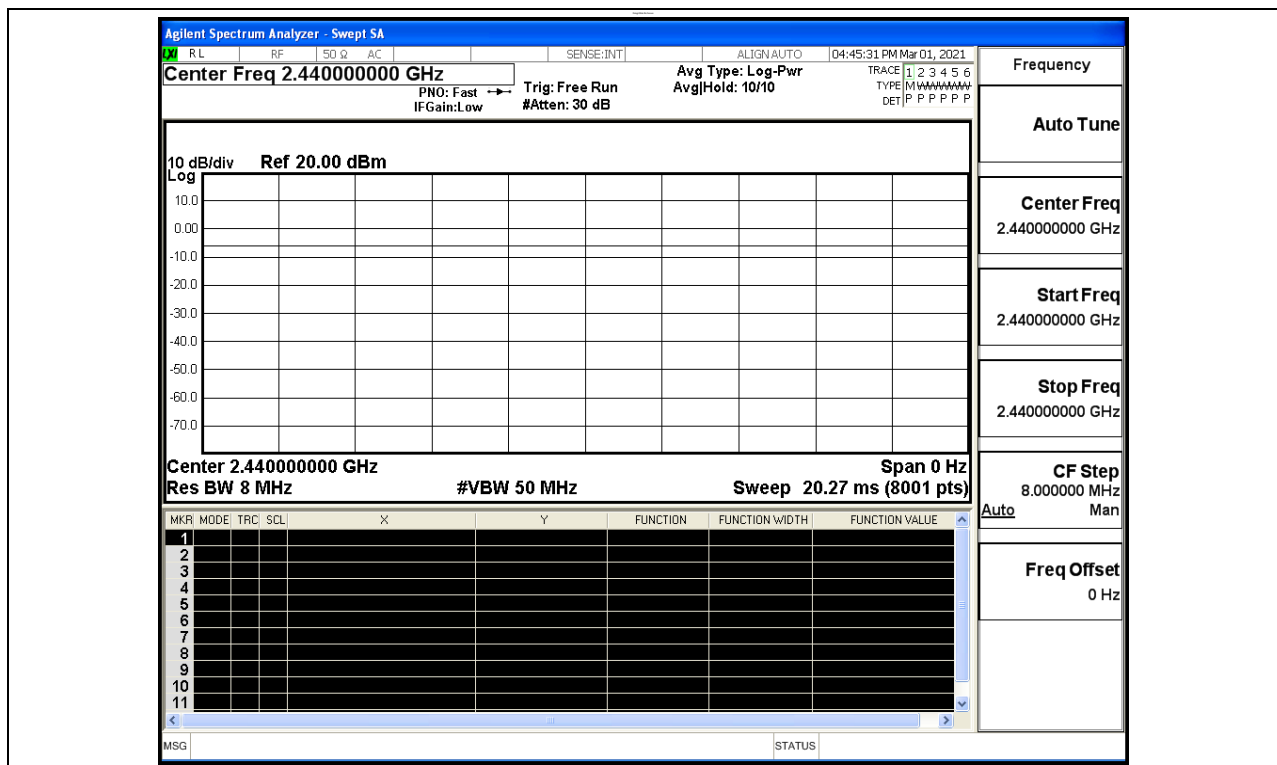
Test Model: BT-FAAH

Environmental Conditions

Temperature:	24.2 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ben Jin
Supervised by:	Li Huan

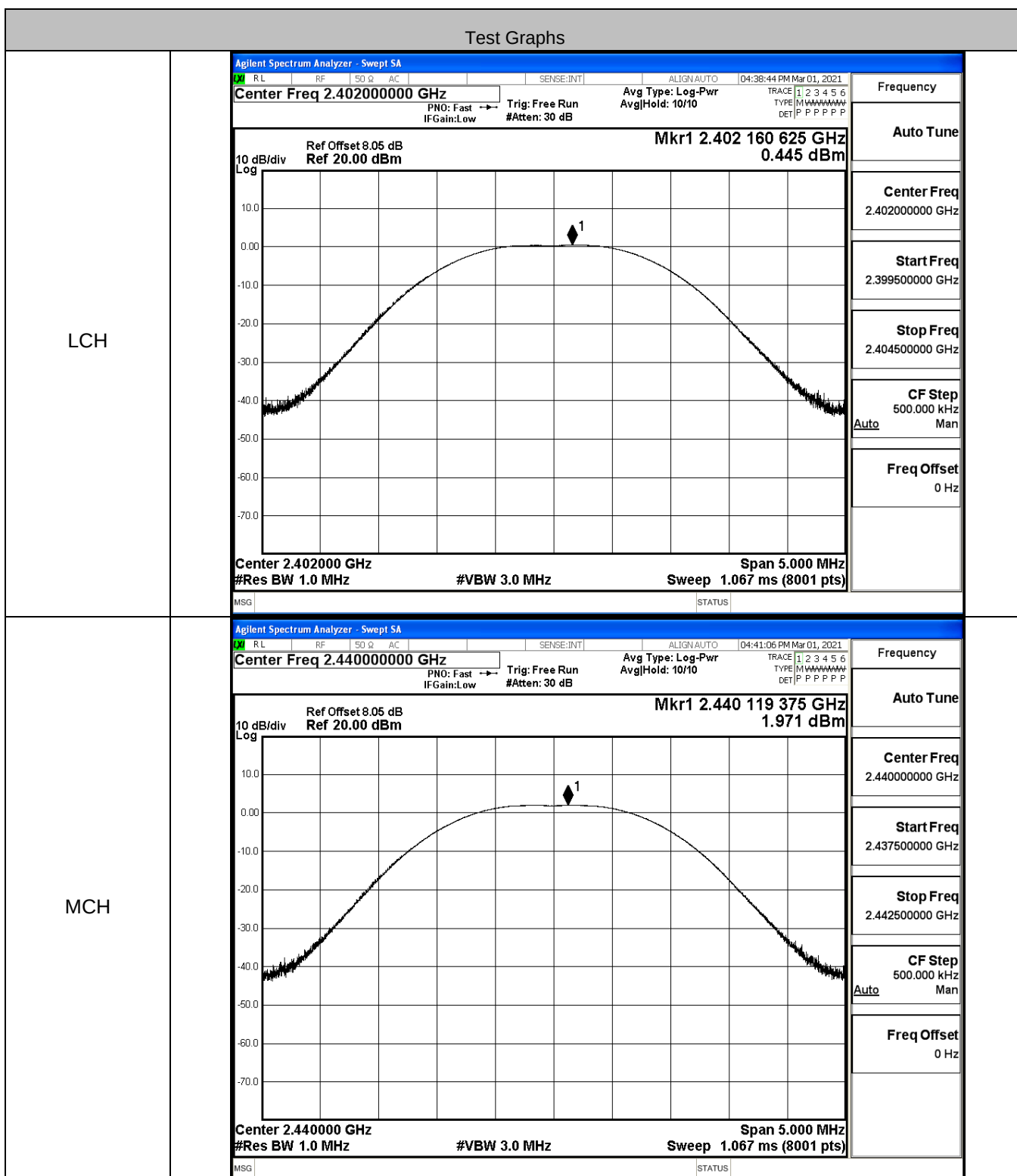
A.1 Duty Cycle

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

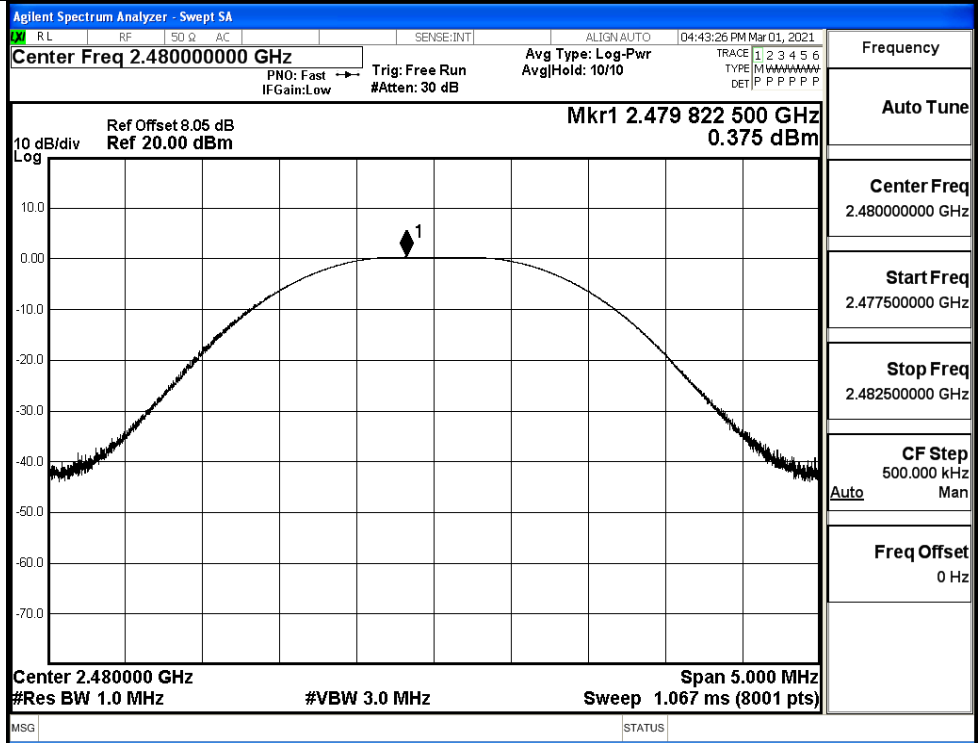


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.445	30	PASS
BT LE	MCH	1.971	30	PASS
BT LE	HCH	0.375	30	PASS

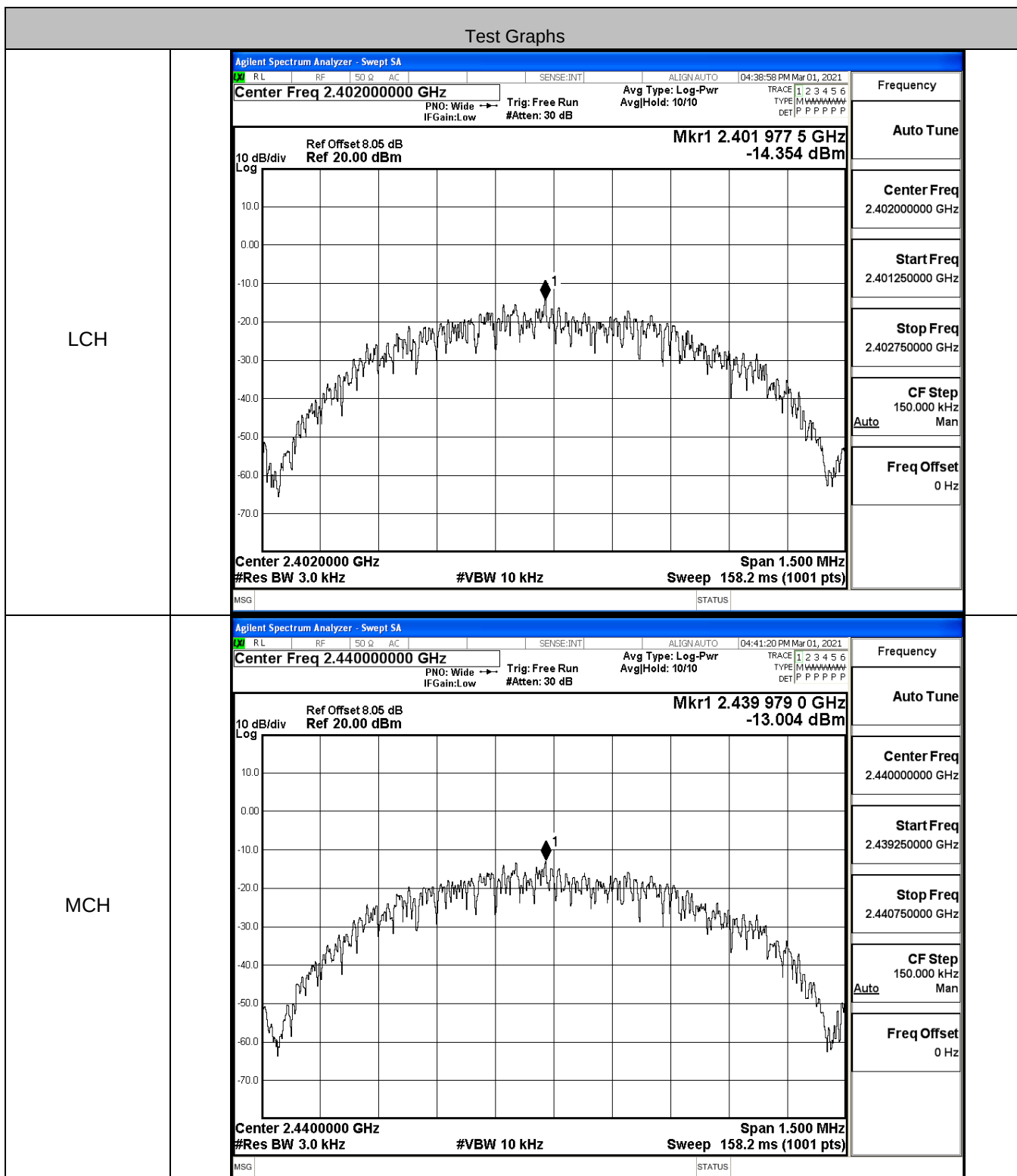


HCH

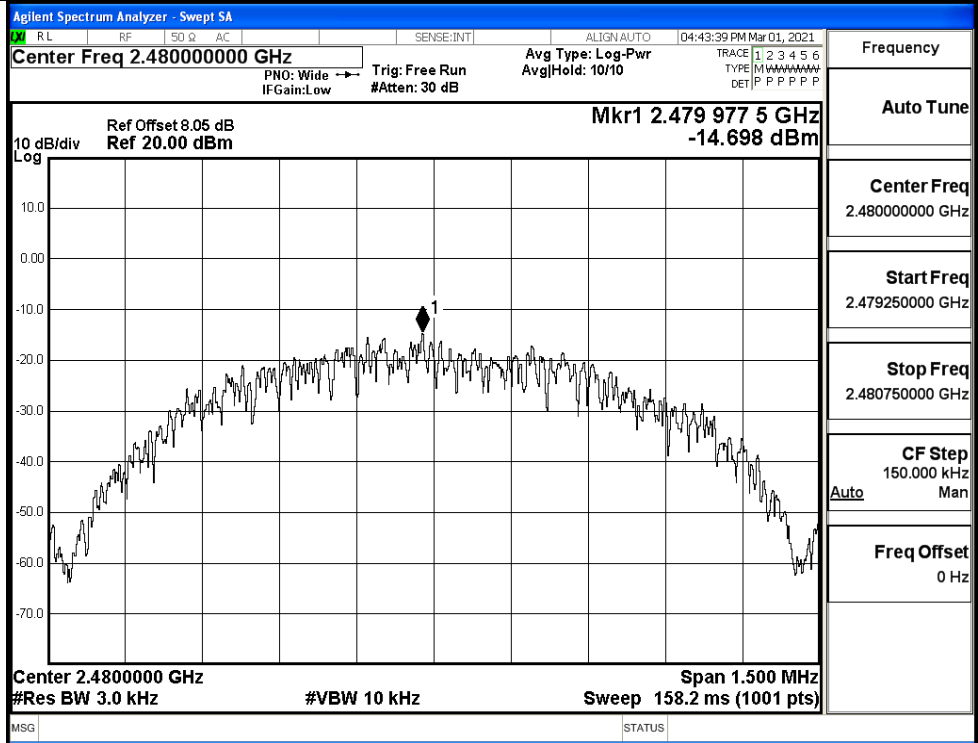


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.354	8	PASS
BT LE	MCH	-13.004	8	PASS
BT LE	HCH	-14.698	8	PASS



HCH

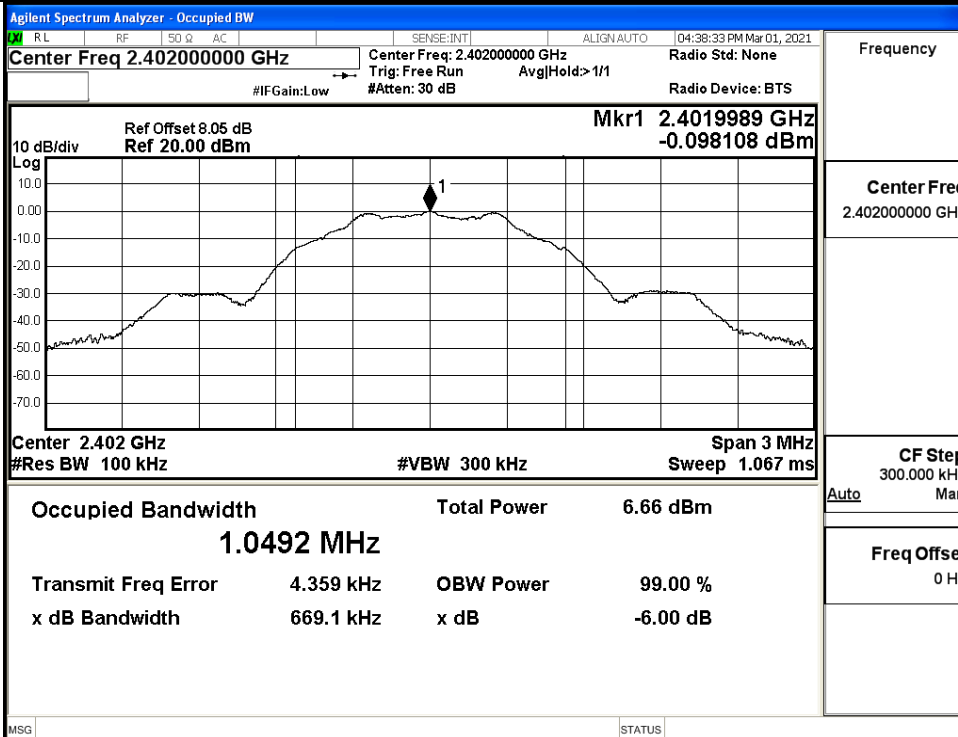


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6691	≥ 0.5	PASS
BT LE	MCH	0.6735	≥ 0.5	PASS
BT LE	HCH	0.6701	≥ 0.5	PASS

Test Graphs

LCH



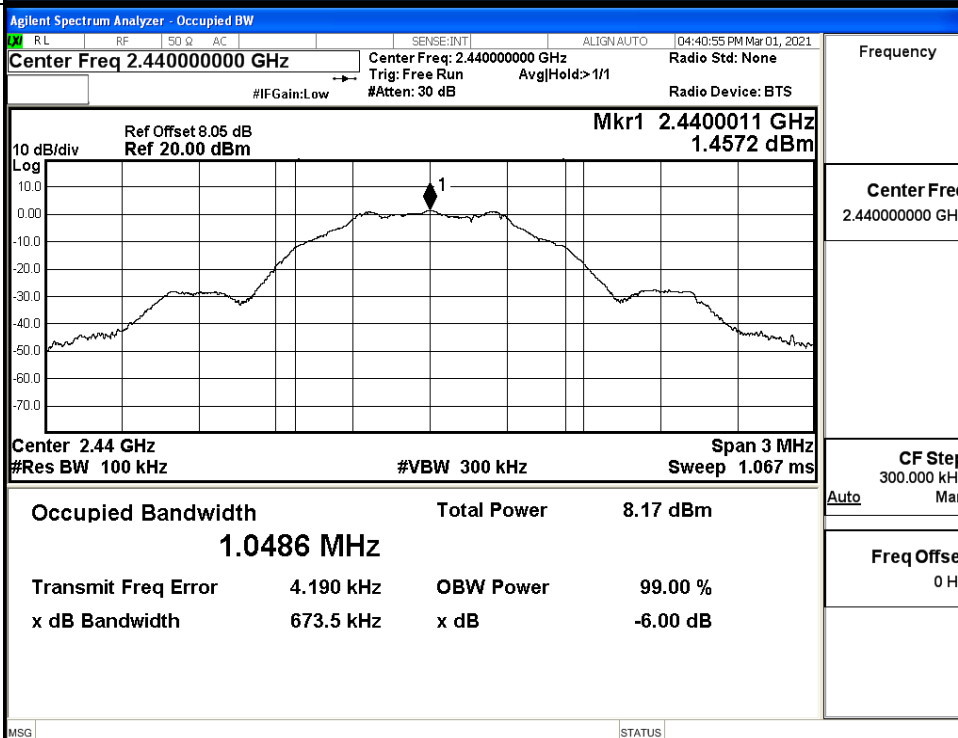
Frequency

Center Freq
2.402000000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

MCH



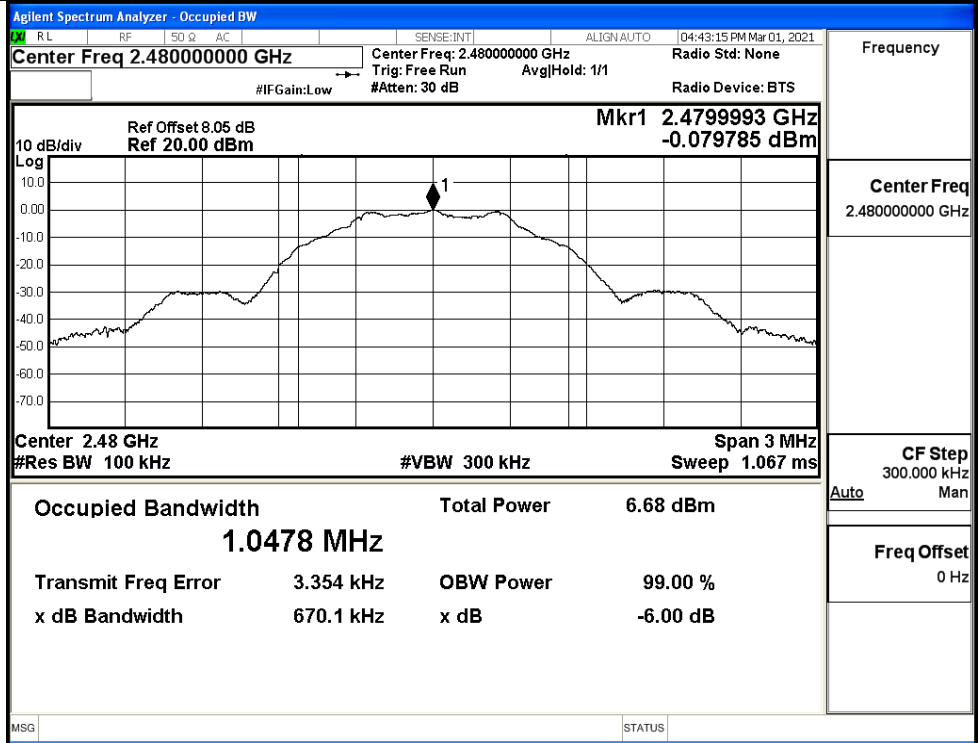
Frequency

Center Freq
2.440000000 GHz

CF Step
300.000 kHz
Auto Man

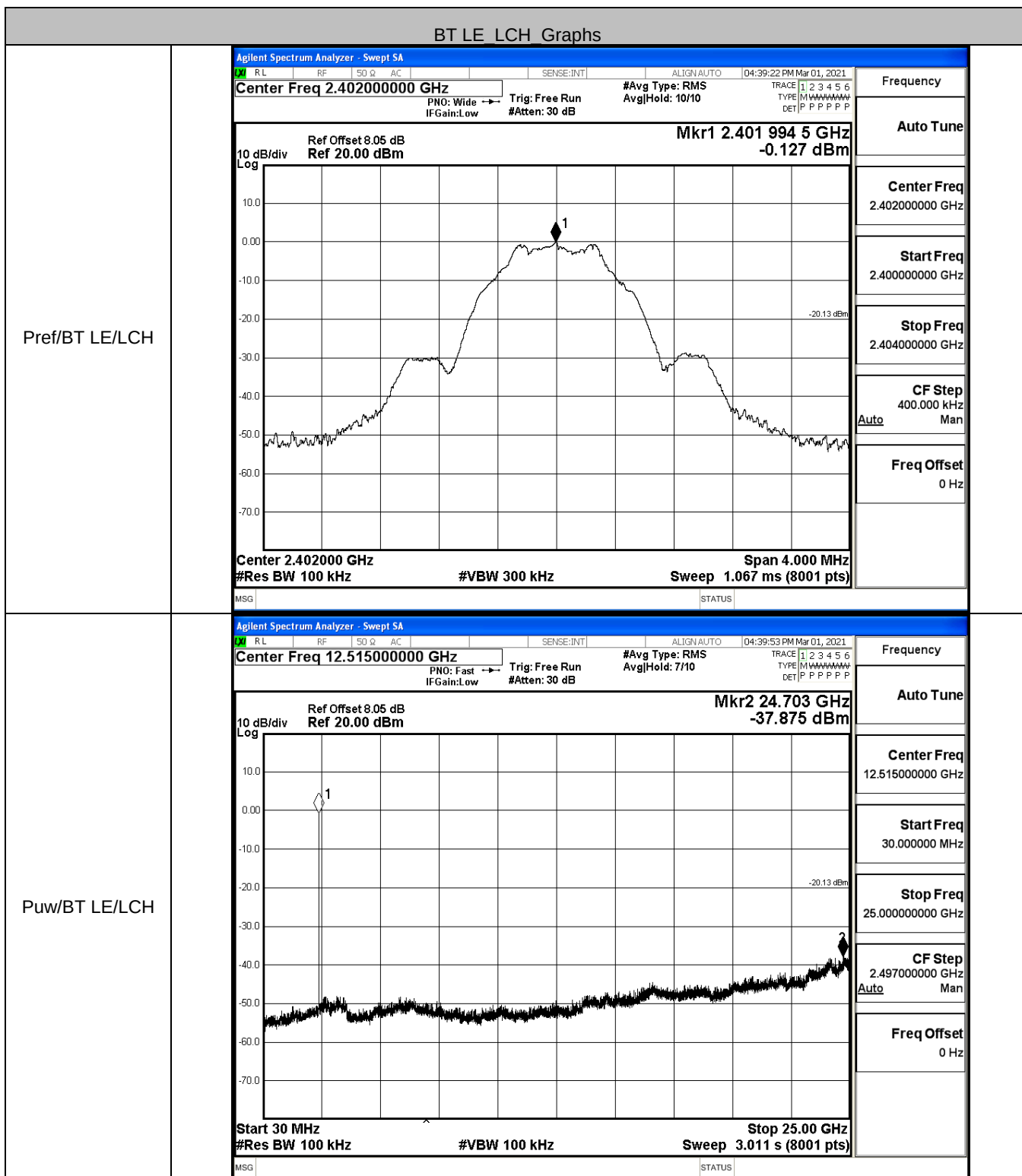
Freq Offset
0 Hz

HCH



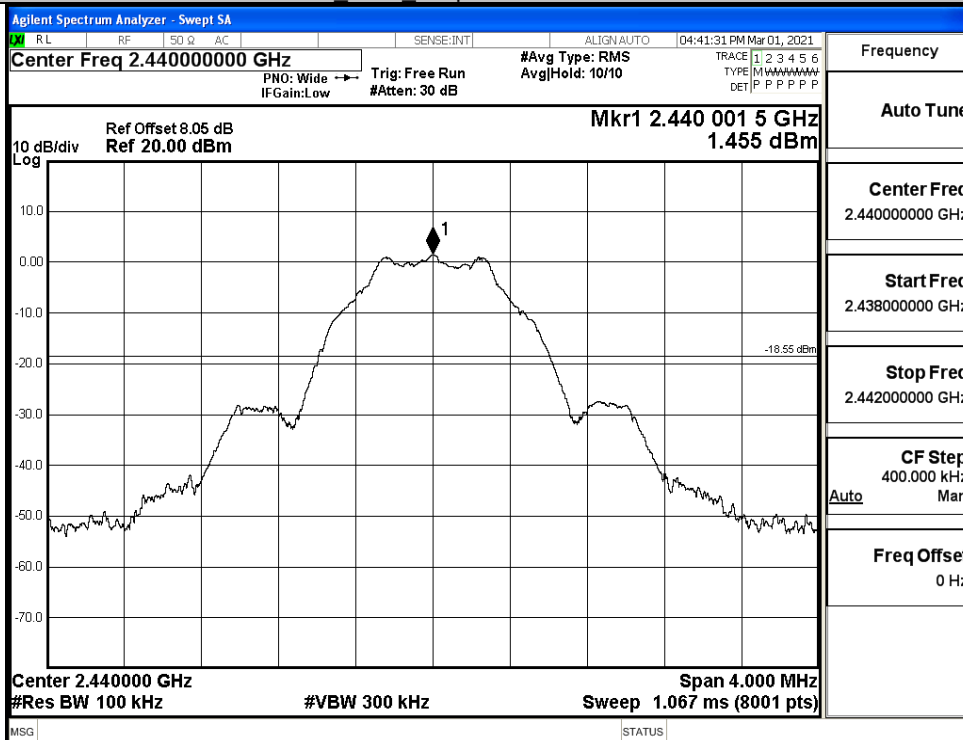
A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.127	-37.875	-20.127	PASS
BT LE	MCH	1.455	-37.754	-18.545	PASS
BT LE	HCH	-0.149	-38.016	-20.149	PASS

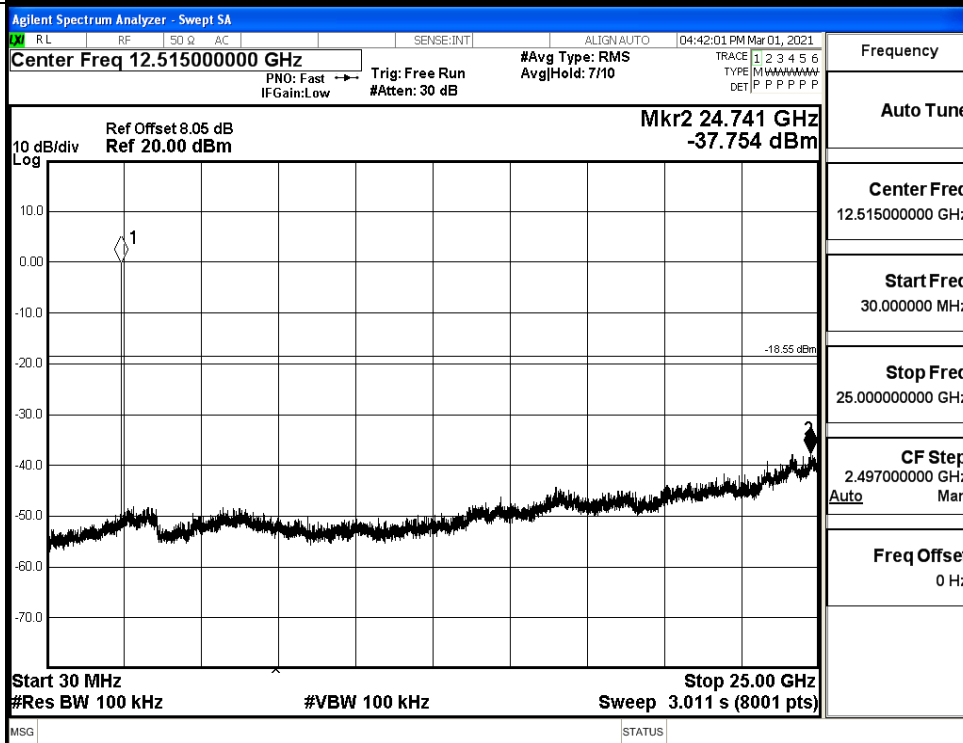


BT LE MCH Graphs

Pref/BT LE/MCH

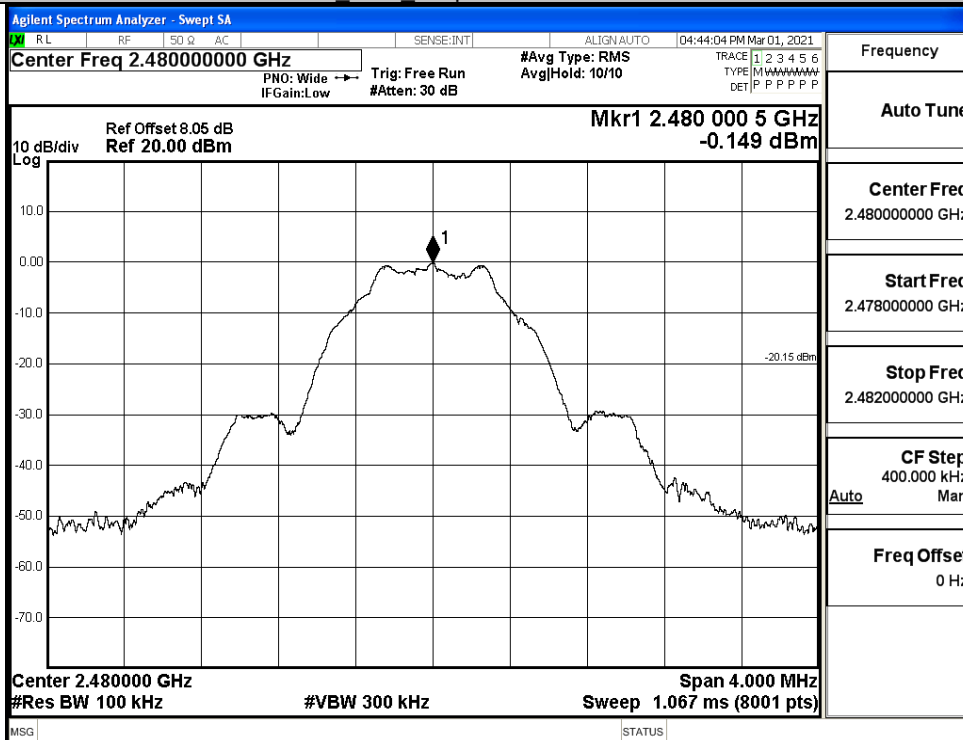


Puw/BT LE/MCH

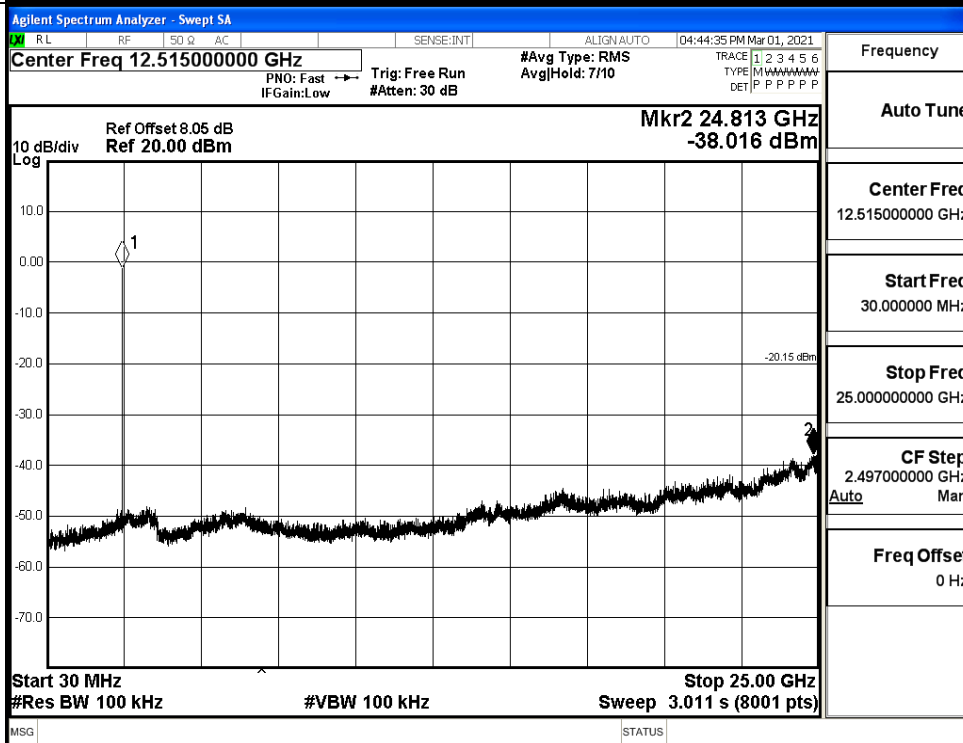


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

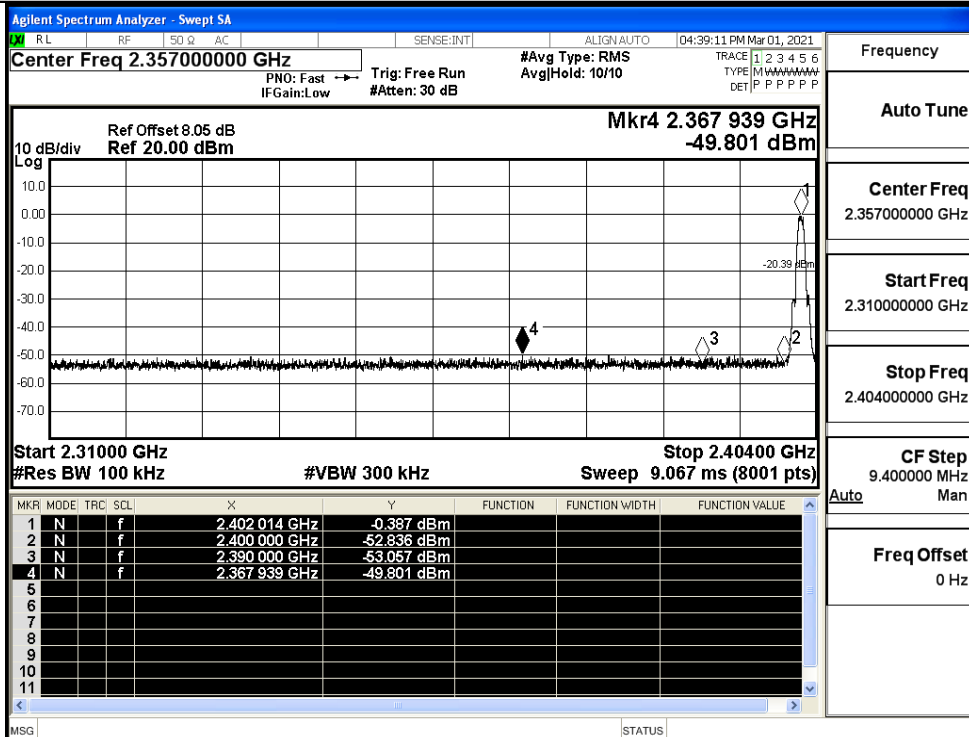


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.387	-49.801	-20.39	PASS
BT LE	HCH	0.033	-49.007	-19.97	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq
2.357000000 GHz

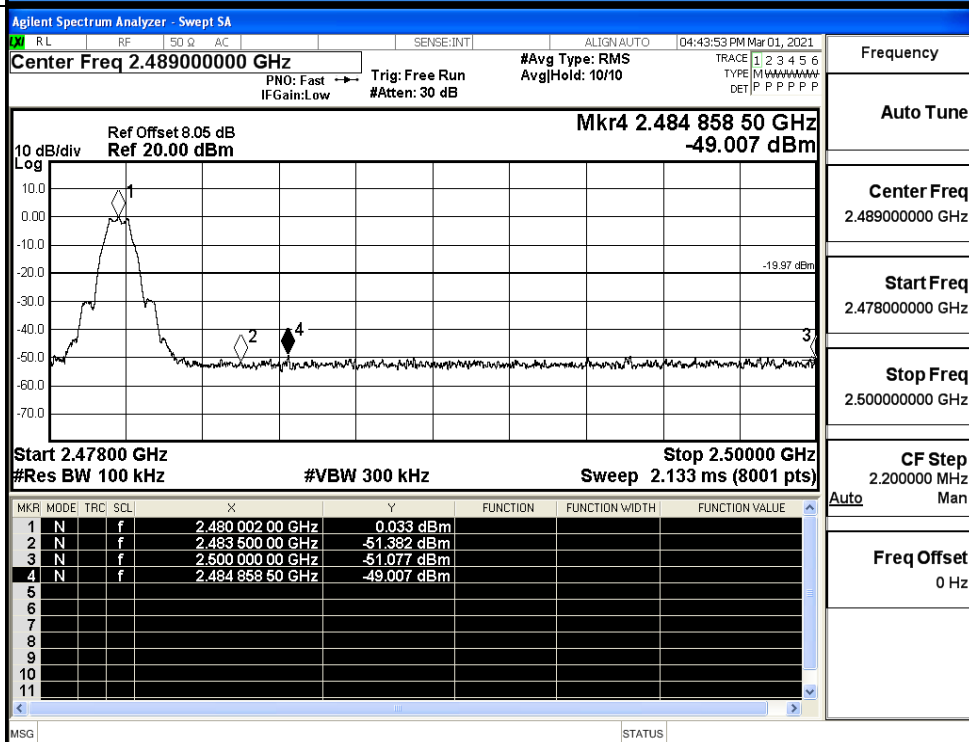
Start Freq
2.310000000 GHz

Stop Freq
2.404000000 GHz

CF Step
9.400000 MHz

Freq Offset
0 Hz

HCH



Frequency

Auto Tune

Center Freq
2.489000000 GHz

Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

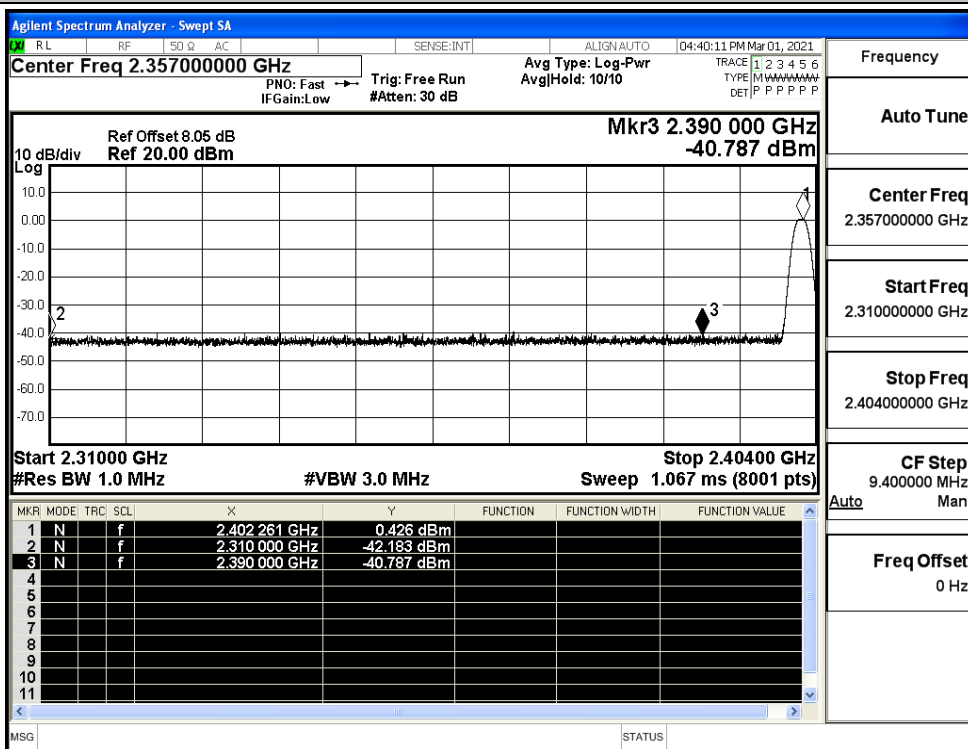
CF Step
2.200000 MHz

Freq Offset
0 Hz

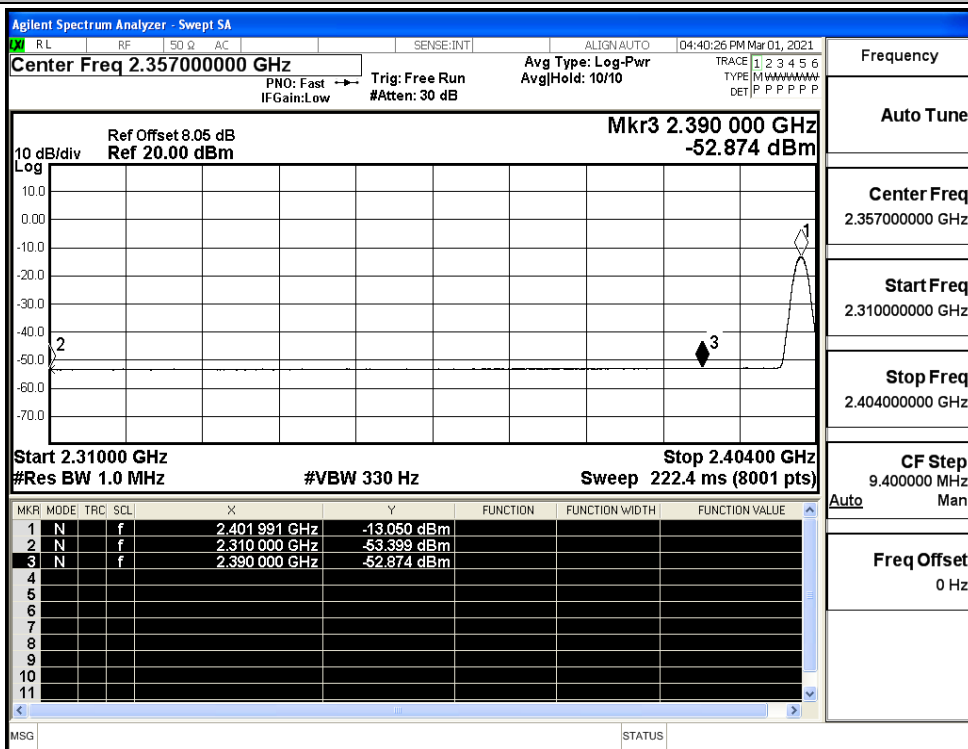
A.8 Restrict-band band-edge measurements

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	-42.18	4.0	0	57.08	PEAK	74	PASS
		Ant1	2310.0	-53.40	4.0	0	45.86	AV	54	PASS
		Ant1	2390.0	-40.79	4.0	0	58.47	PEAK	74	PASS
		Ant1	2390.0	-52.87	4.0	0	46.39	AV	54	PASS
	2480	Ant1	2483.5	-42.57	4.0	0	56.69	PEAK	74	PASS
		Ant1	2483.5	-52.53	4.0	0	46.73	AV	54	PASS
		Ant1	2500.0	-42.13	4.0	0	57.13	PEAK	74	PASS
		Ant1	2500.0	-52.48	4.0	0	46.78	AV	54	PASS

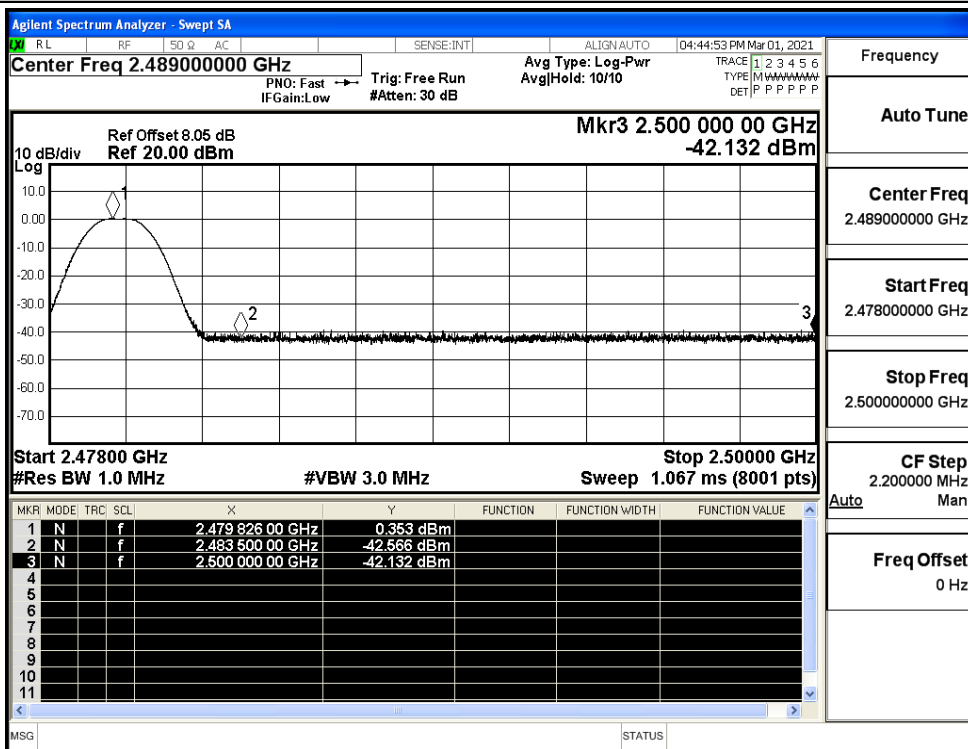
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

