

Appendix A

RF Test Data for BT V5.1(BT LE) (Conducted Measurement)

Product Name: Smart Watch

Trade Mark: N/A

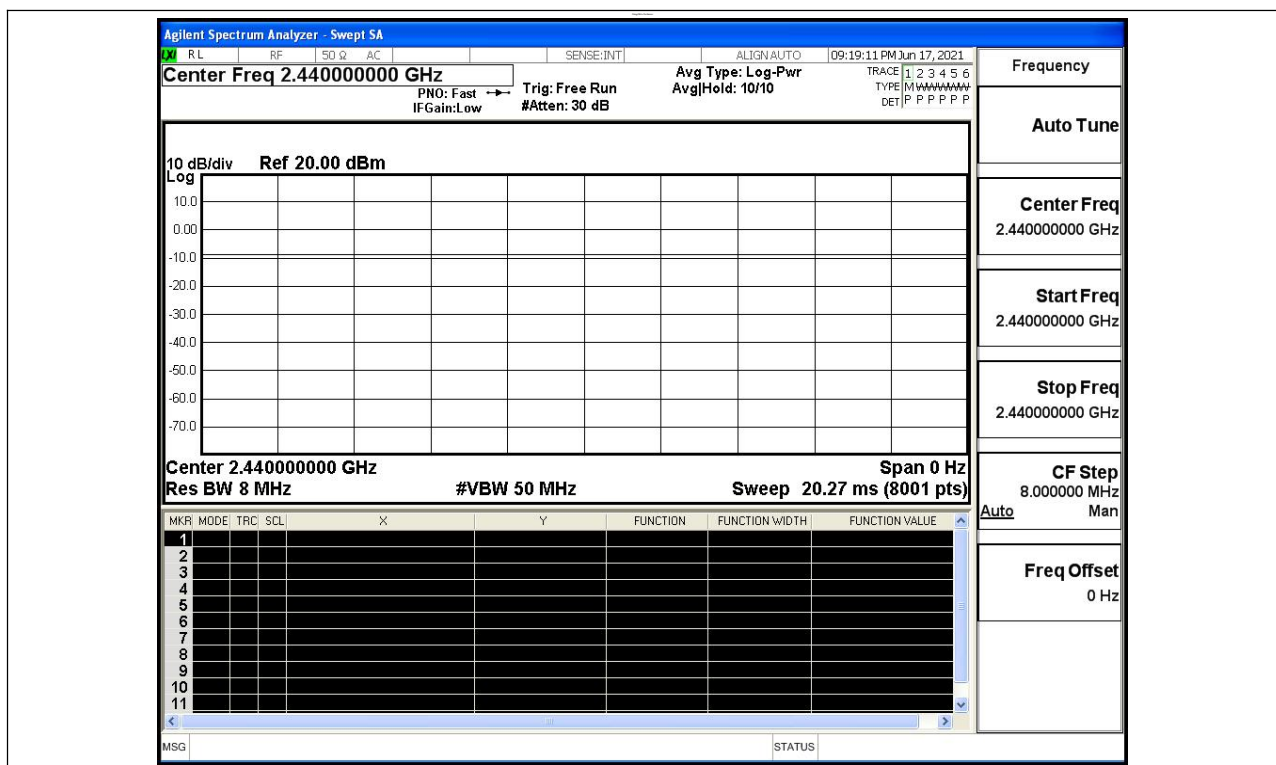
Test Model: 2025

Environmental Conditions

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

A.1 Duty Cycle

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

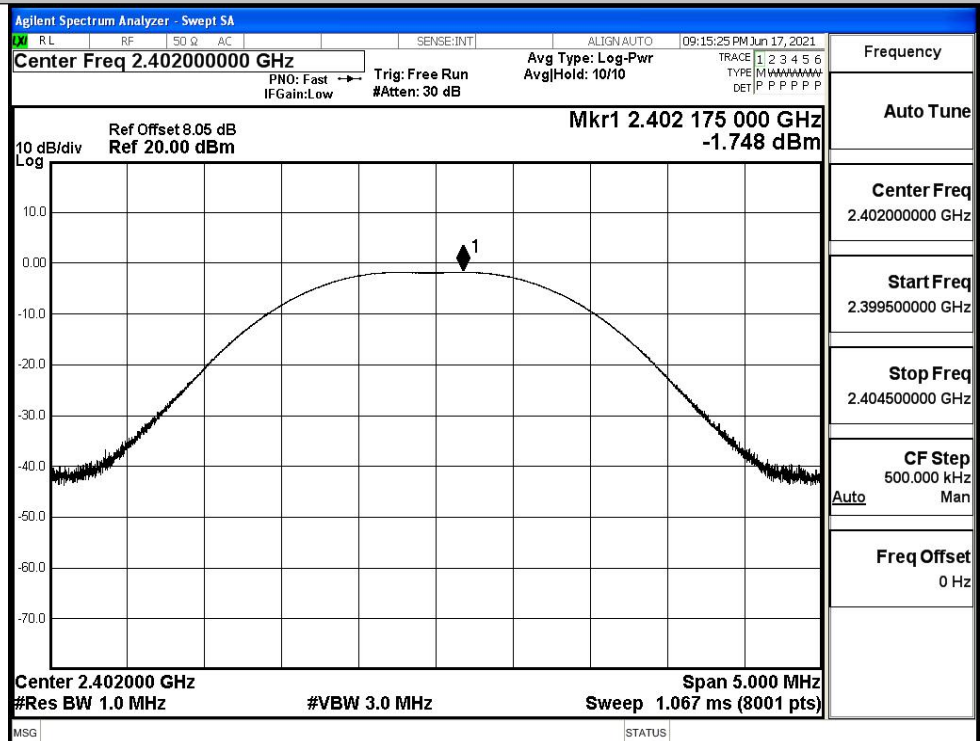


A.2 Maximum Conducted Peak Output Power

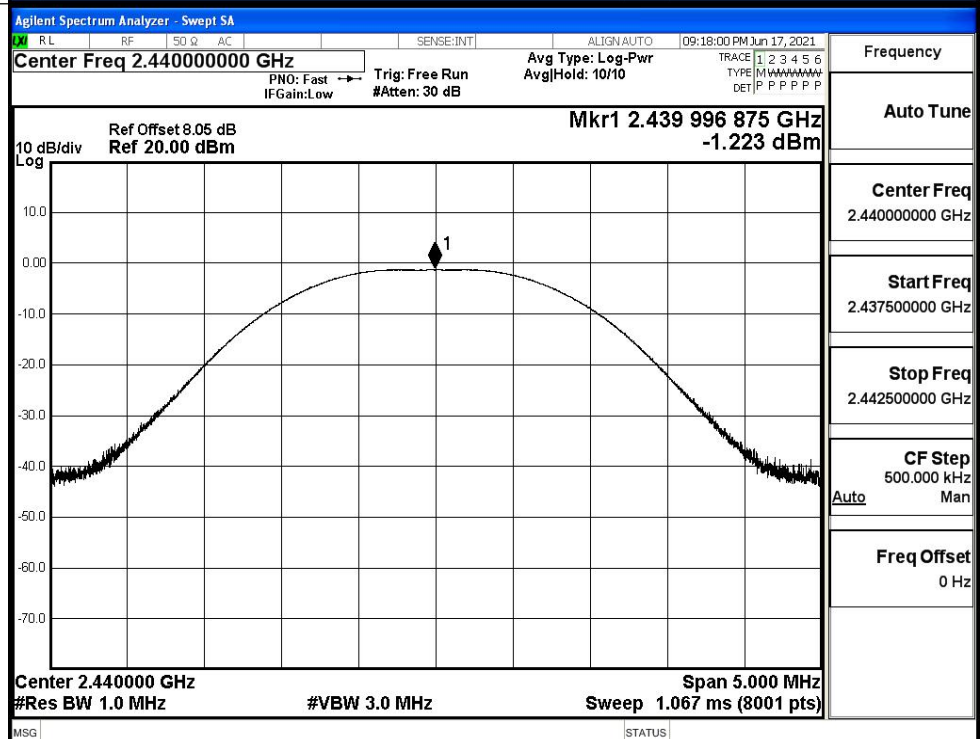
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.748	30	PASS
BT LE	MCH	-1.223	30	PASS
BT LE	HCH	-0.917	30	PASS

Test Graphs

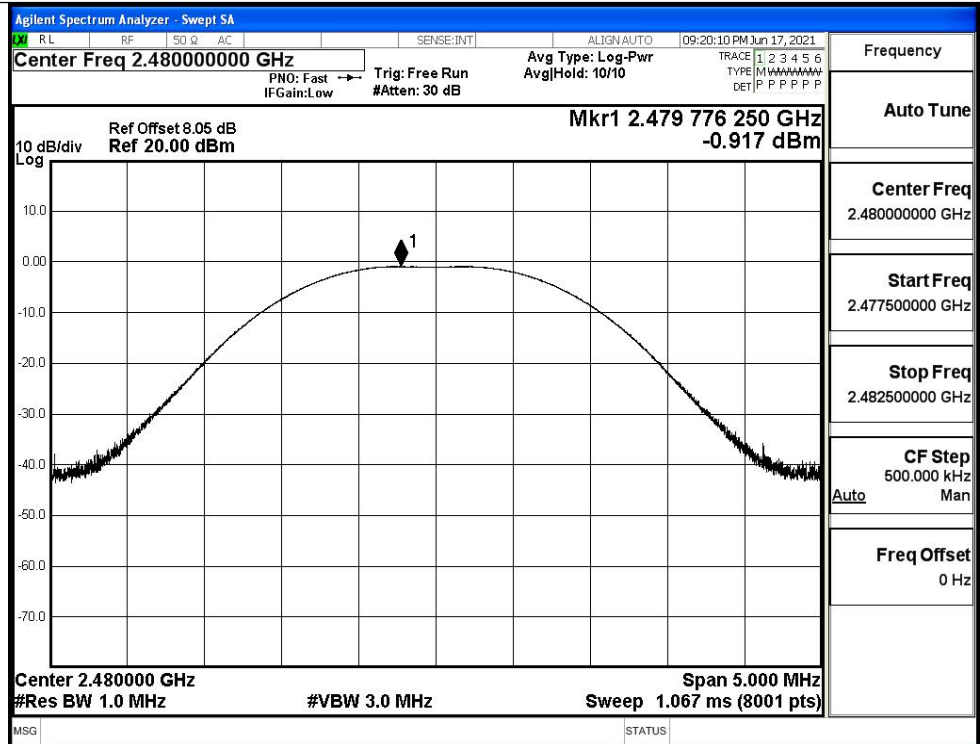
LCH



MCH



HCH

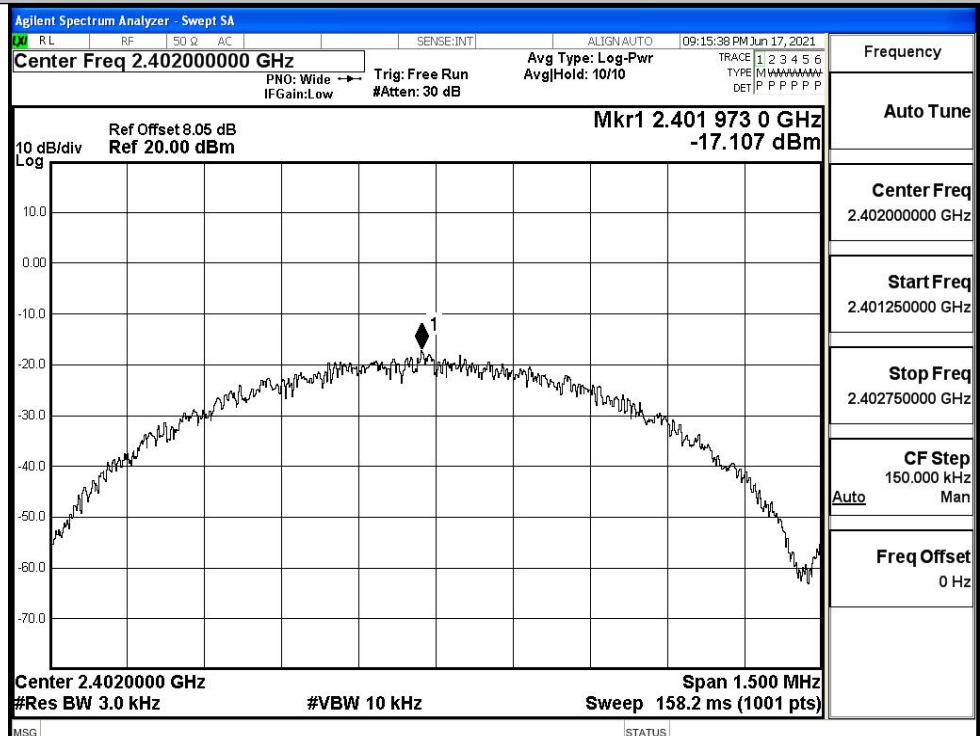


A.3 Maximum Power Spectral Density

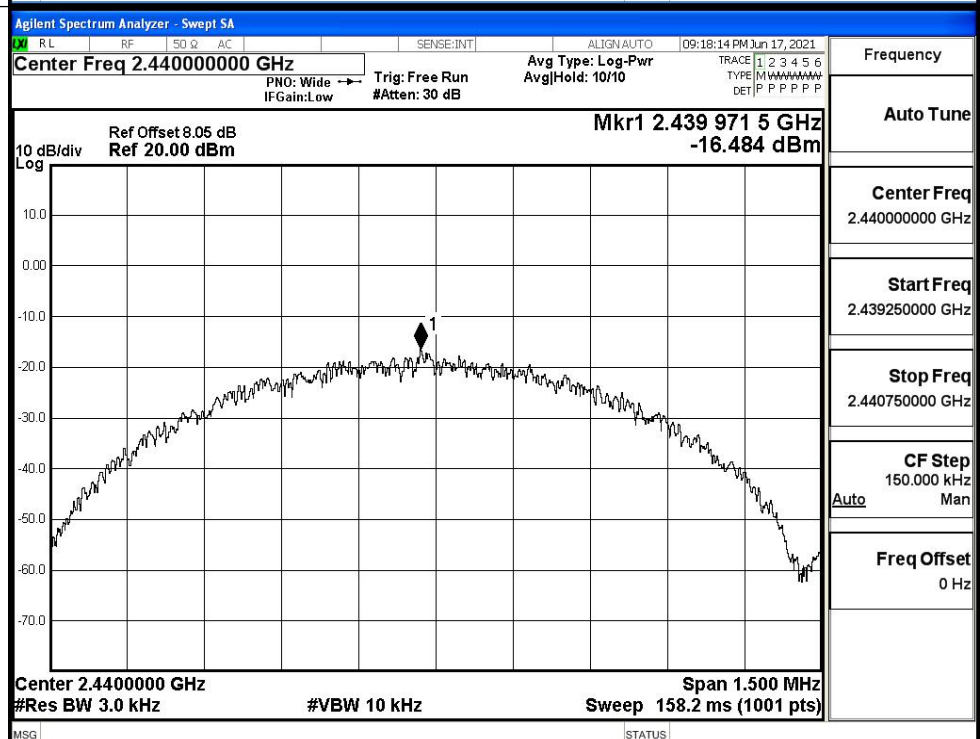
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.107	8	PASS
BT LE	MCH	-16.484	8	PASS
BT LE	HCH	-15.646	8	PASS

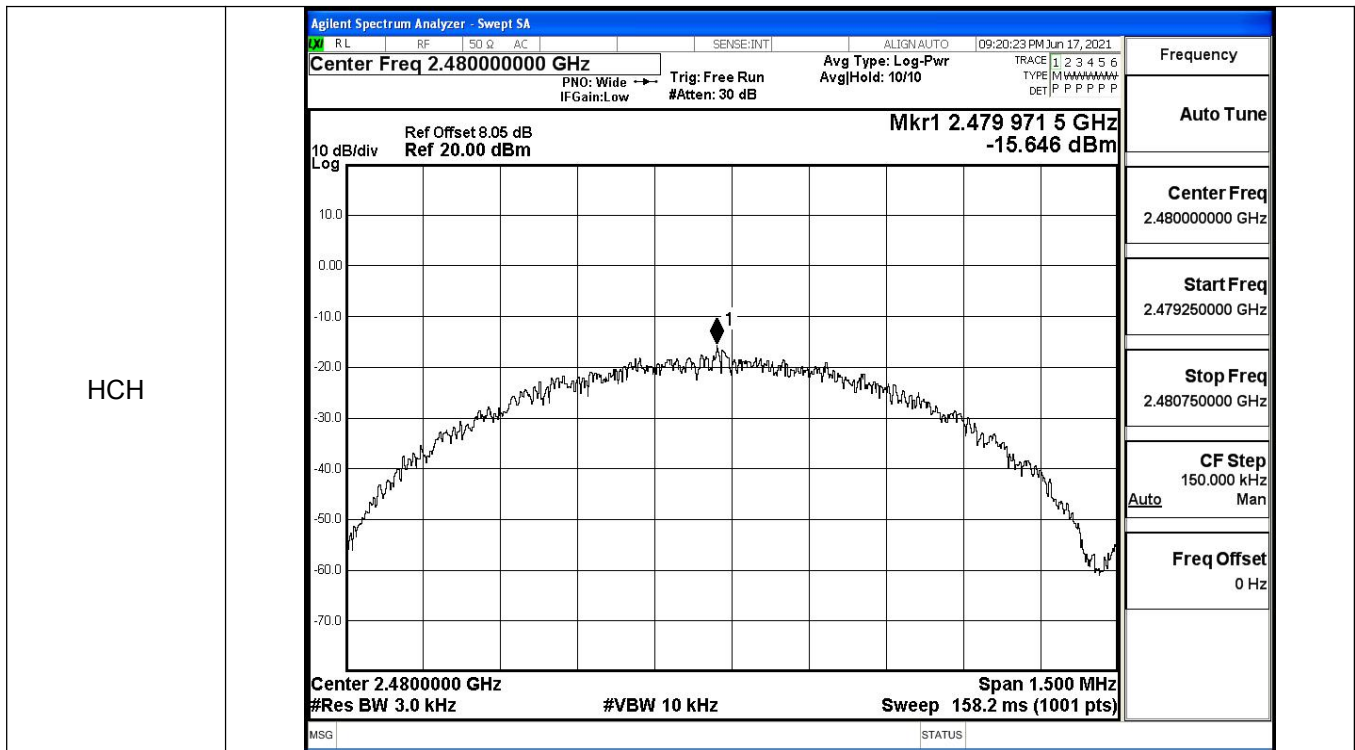
Test Graphs

LCH



MCH



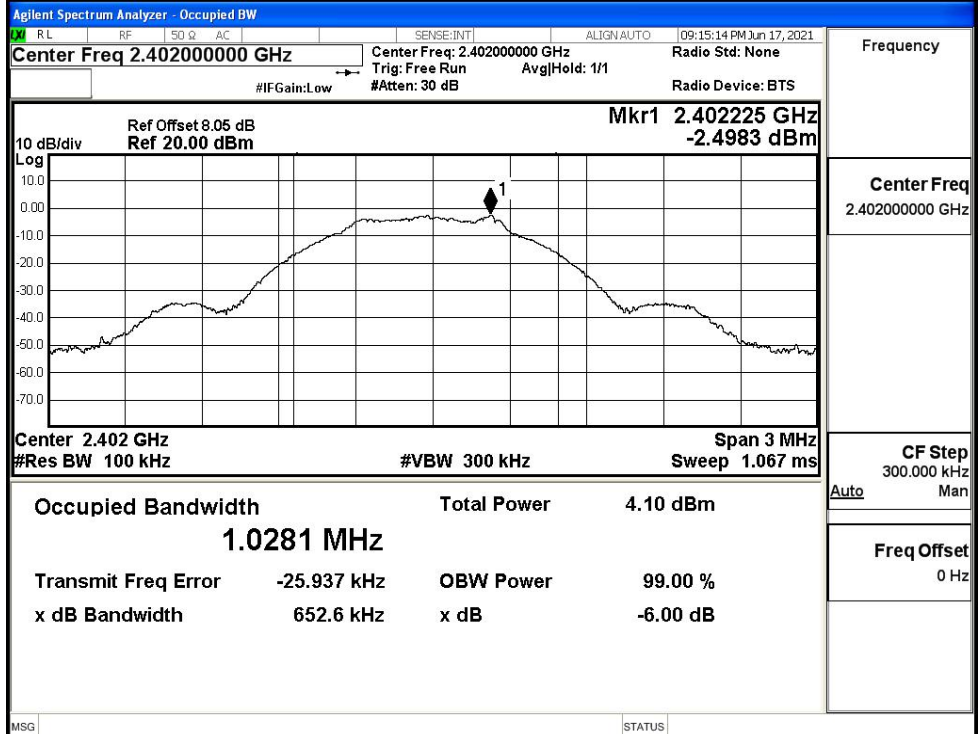


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6526	≥ 0.5	PASS
BT LE	MCH	0.6384	≥ 0.5	PASS
BT LE	HCH	0.6422	≥ 0.5	PASS

Test Graphs

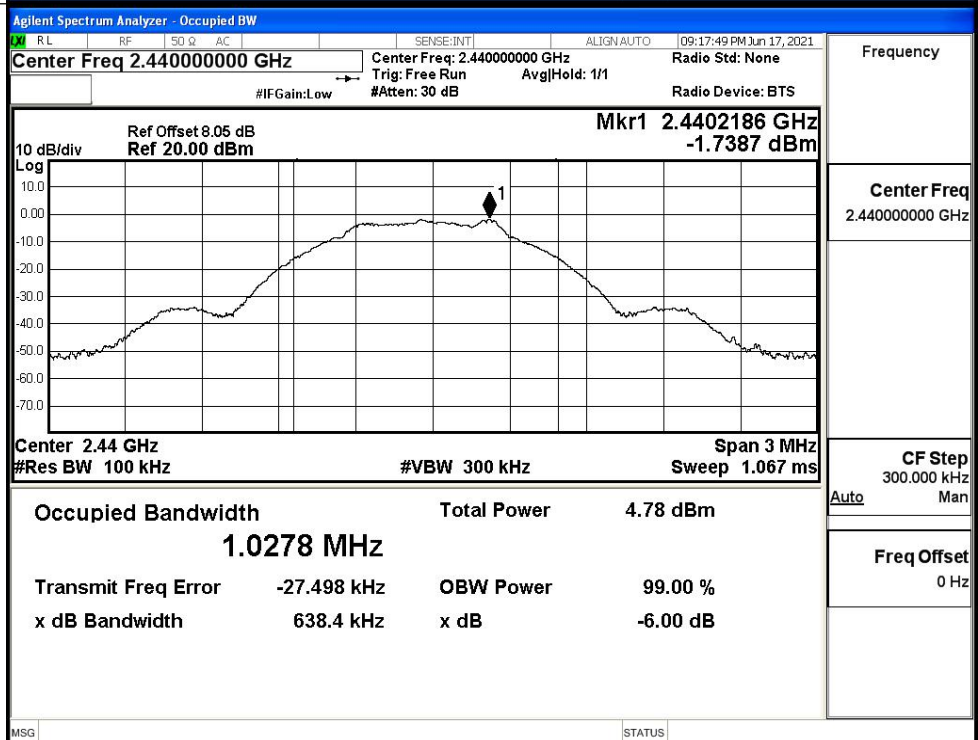
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

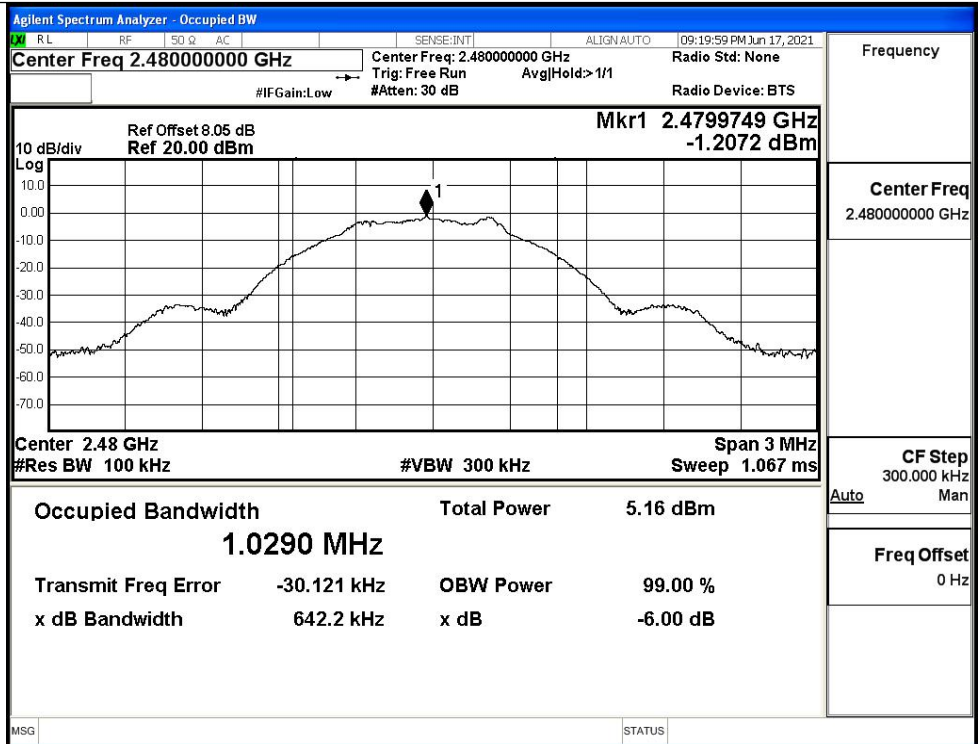
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

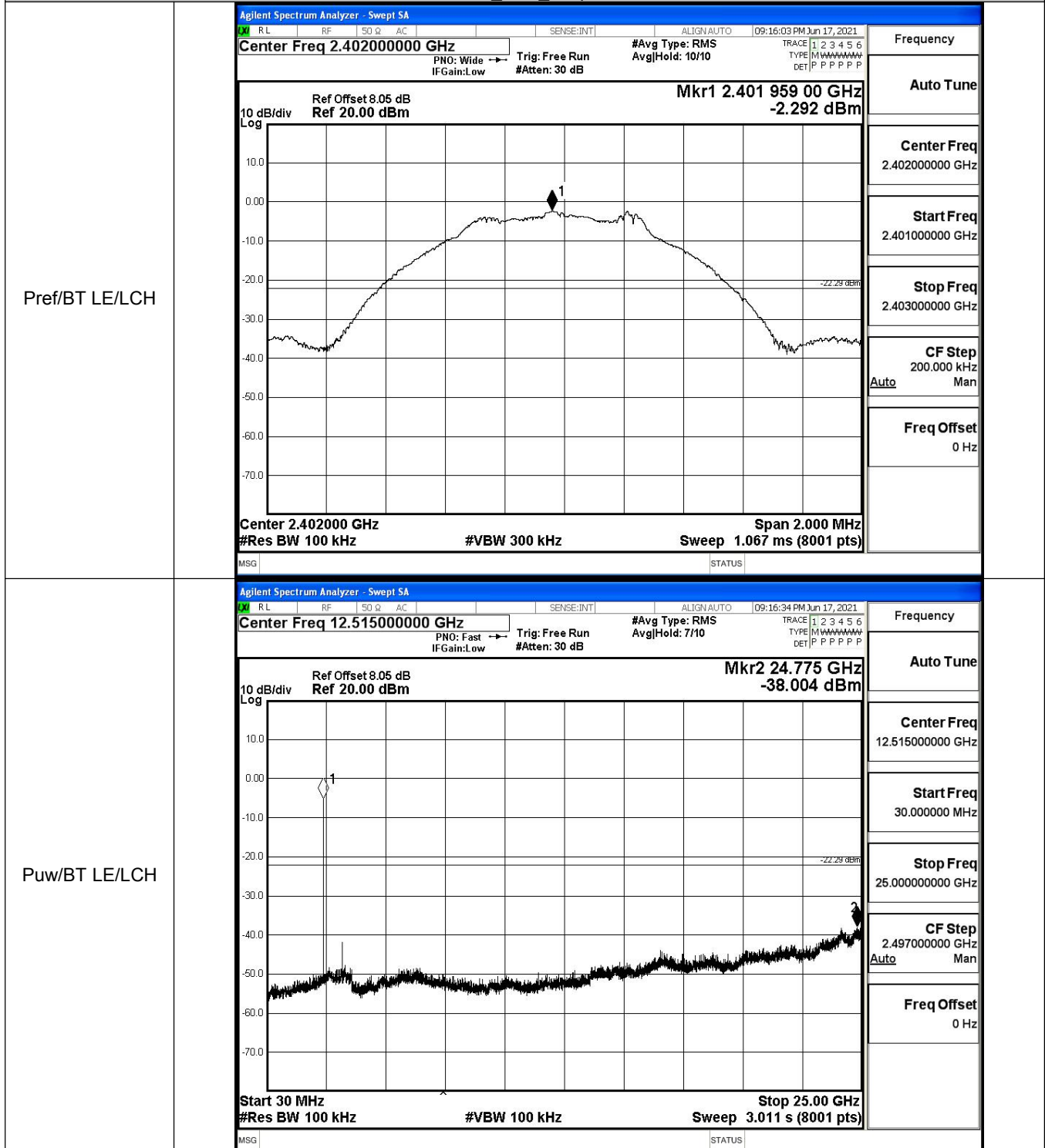
HCH



A.5 RF Conducted Spurious Emissions

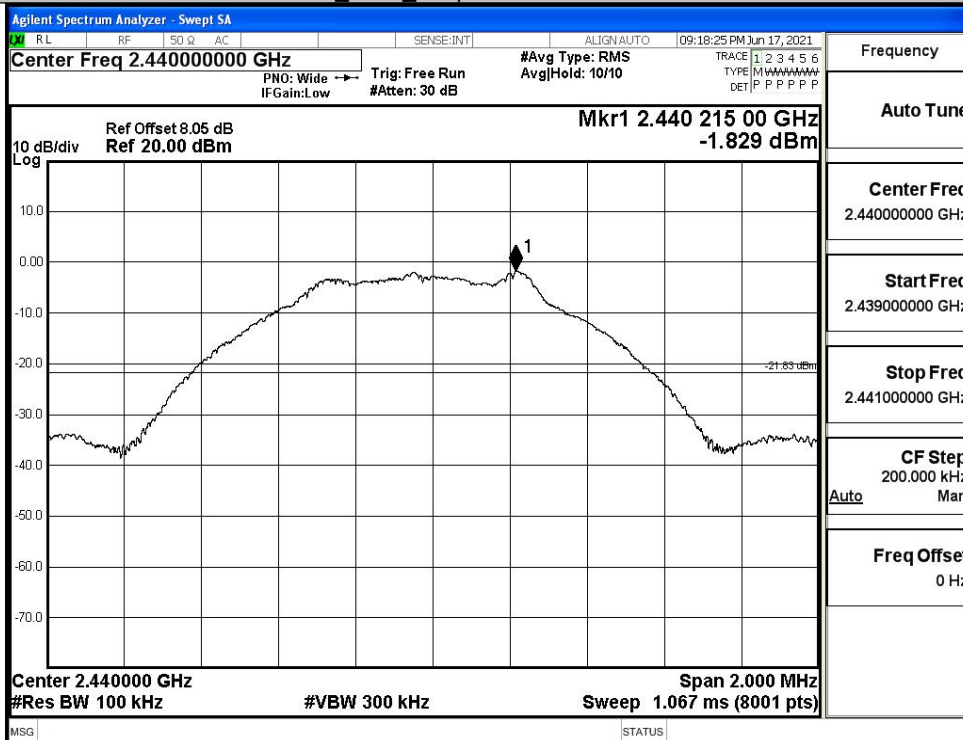
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.292	-38.004	-22.292	PASS
BT LE	MCH	-1.829	-37.830	-21.829	PASS
BT LE	HCH	-1.312	-37.583	-21.312	PASS

BT LE_LCH_Graphs

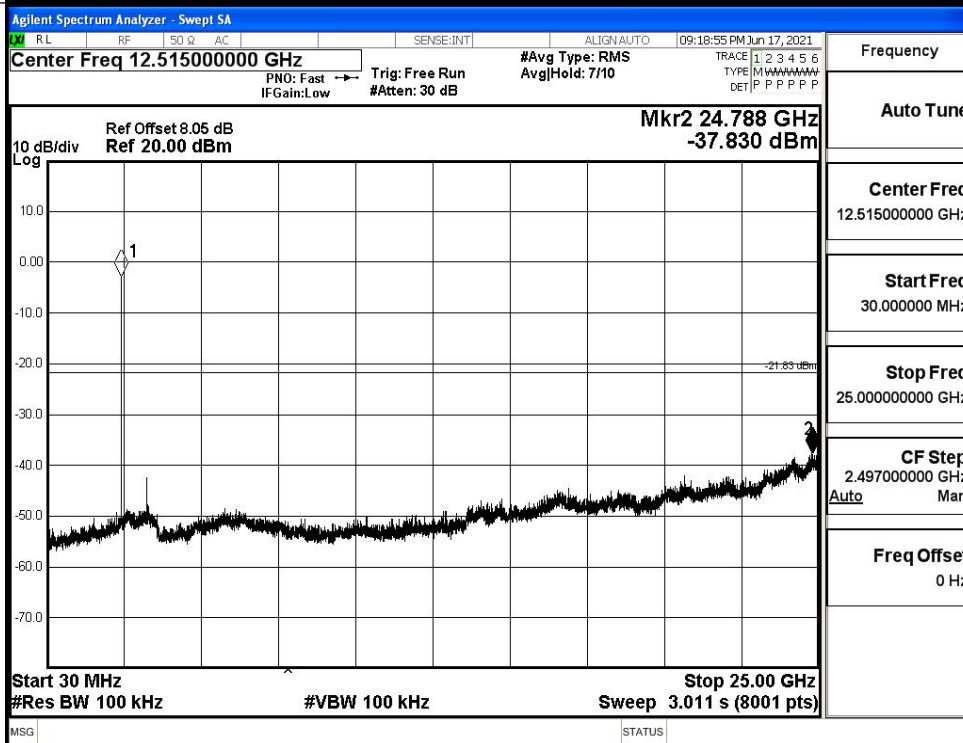


BT LE MCH Graphs

Pref/BT LE/MCH

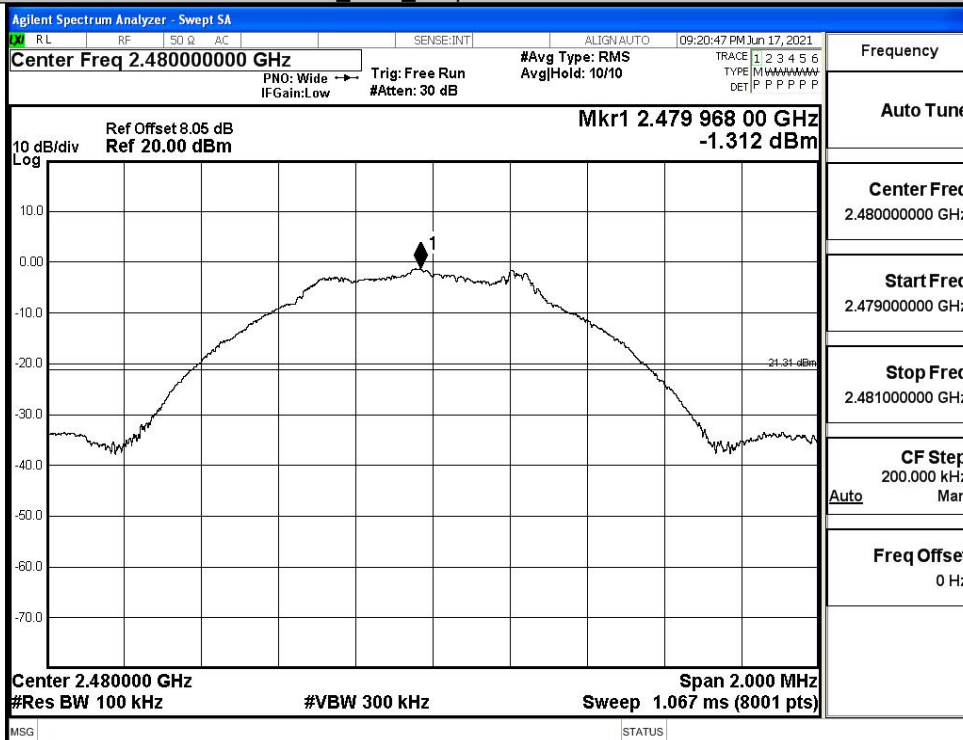


Puw/BT LE/MCH

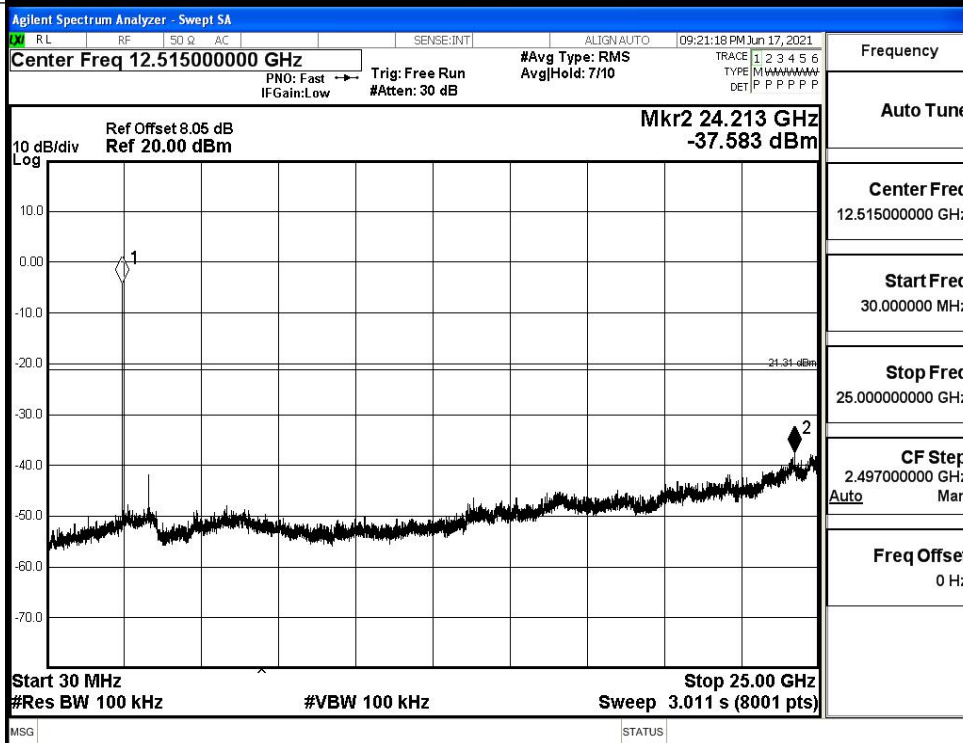


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

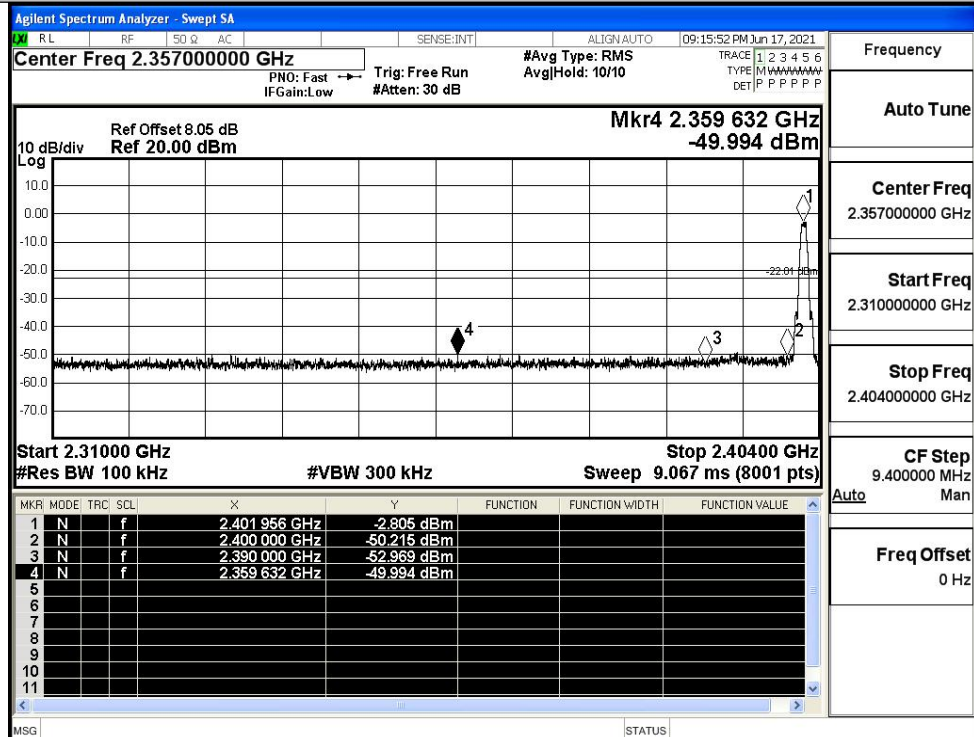


A.6 Band-edge for RF Conducted Emissions

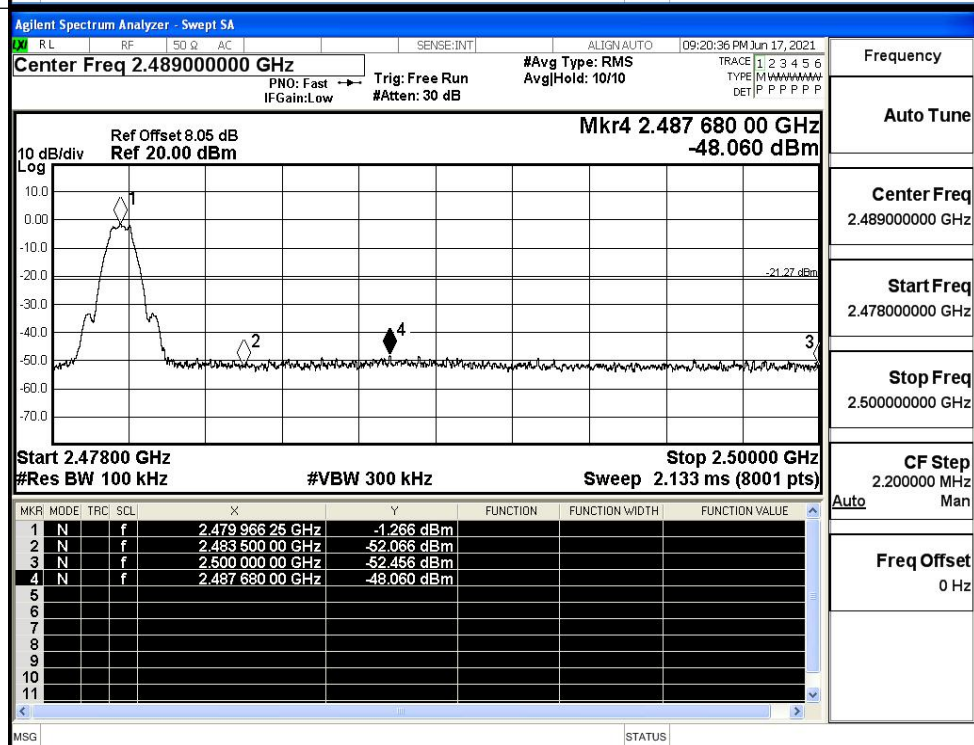
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.805	-49.994	-22.81	PASS
BT LE	HCH	-1.266	-48.060	-21.27	PASS

Test Graphs

LCH



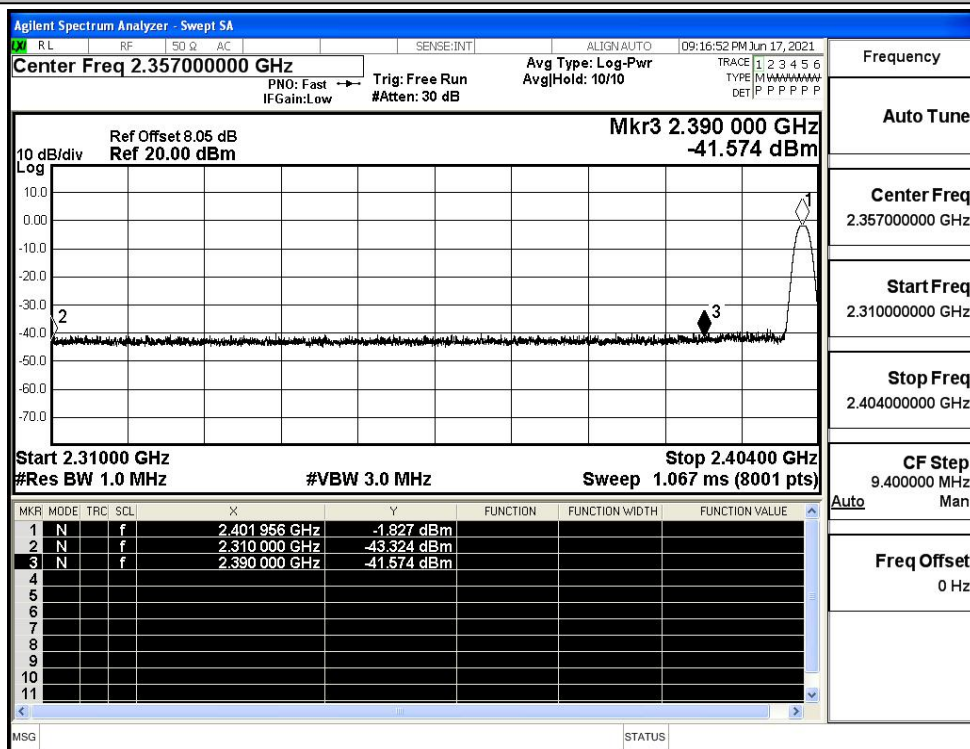
HCH



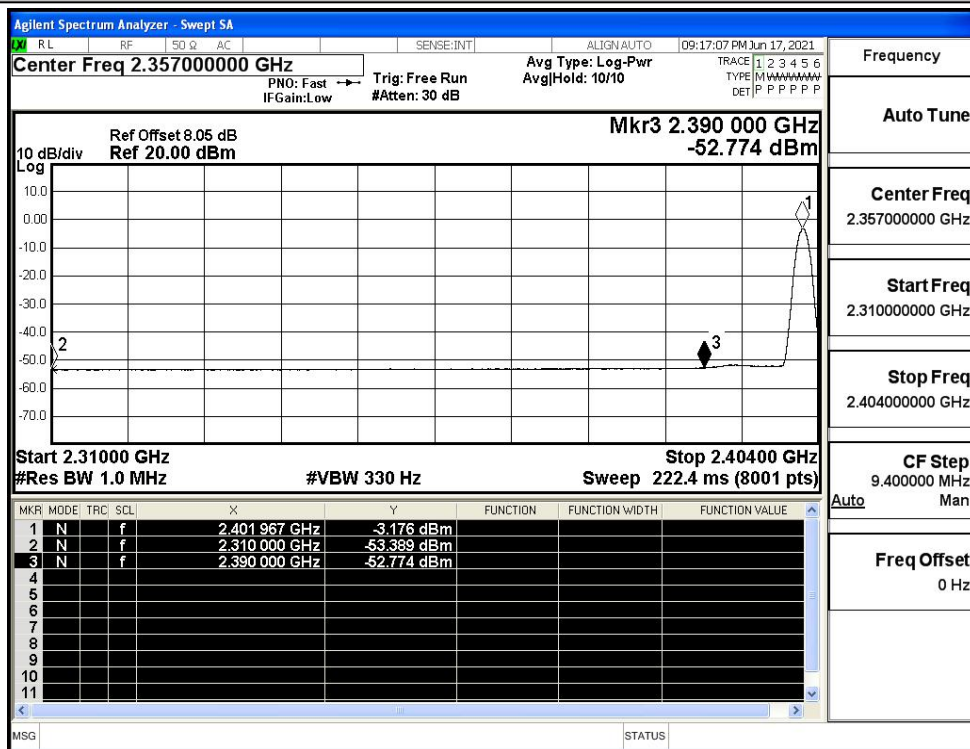
A.7 Restrict-band band-edge measurements

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	-43.32	2.0	0	51.93	PEAK	74	PASS
		Ant1	2310.0	-53.39	2.0	0	41.87	AV	54	PASS
		Ant1	2390.0	-41.57	2.0	0	53.68	PEAK	74	PASS
		Ant1	2390.0	-52.77	2.0	0	42.48	AV	54	PASS
	2480	Ant1	2483.5	-42.35	2.0	0	52.91	PEAK	74	PASS
		Ant1	2483.5	-51.70	2.0	0	43.55	AV	54	PASS
		Ant1	2500.0	-42.11	2.0	0	53.15	PEAK	74	PASS
		Ant1	2500.0	-52.18	2.0	0	43.07	AV	54	PASS

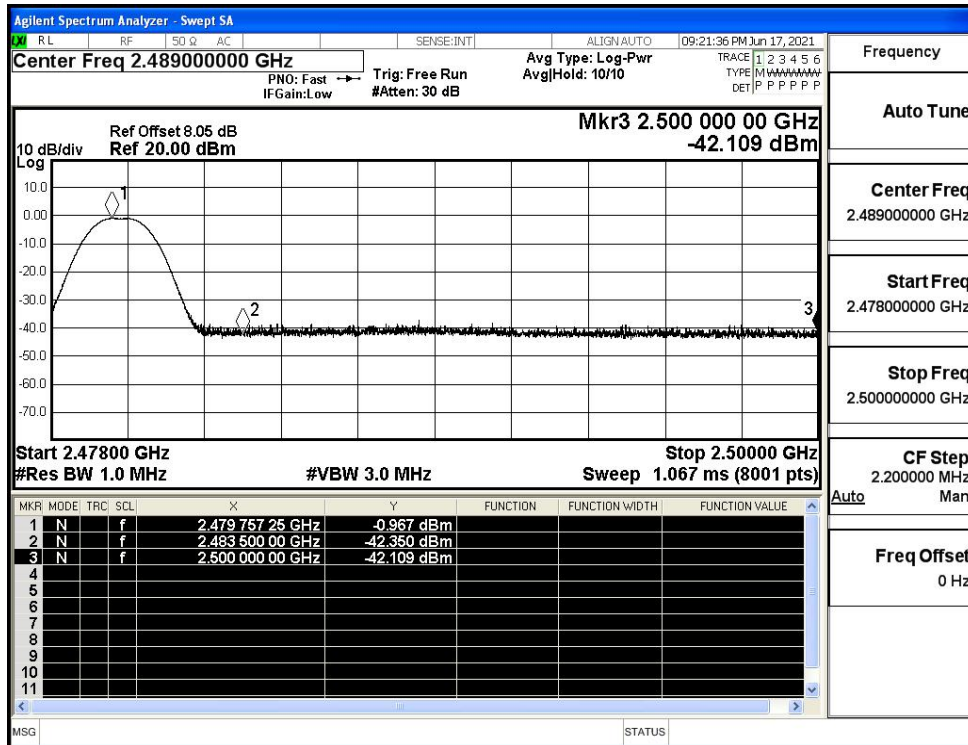
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

