

Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: Smartphone

Trade Mark: NSPRE

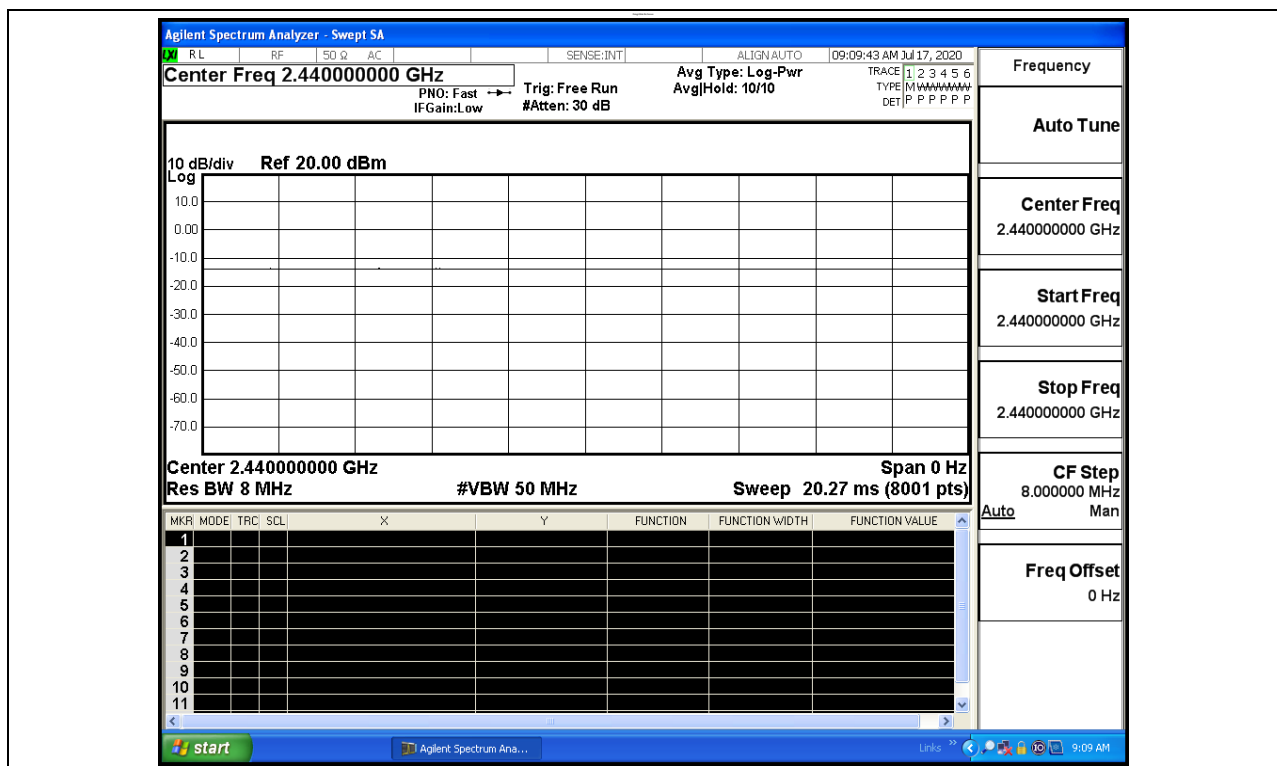
Test Model: NX-20PRO1

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

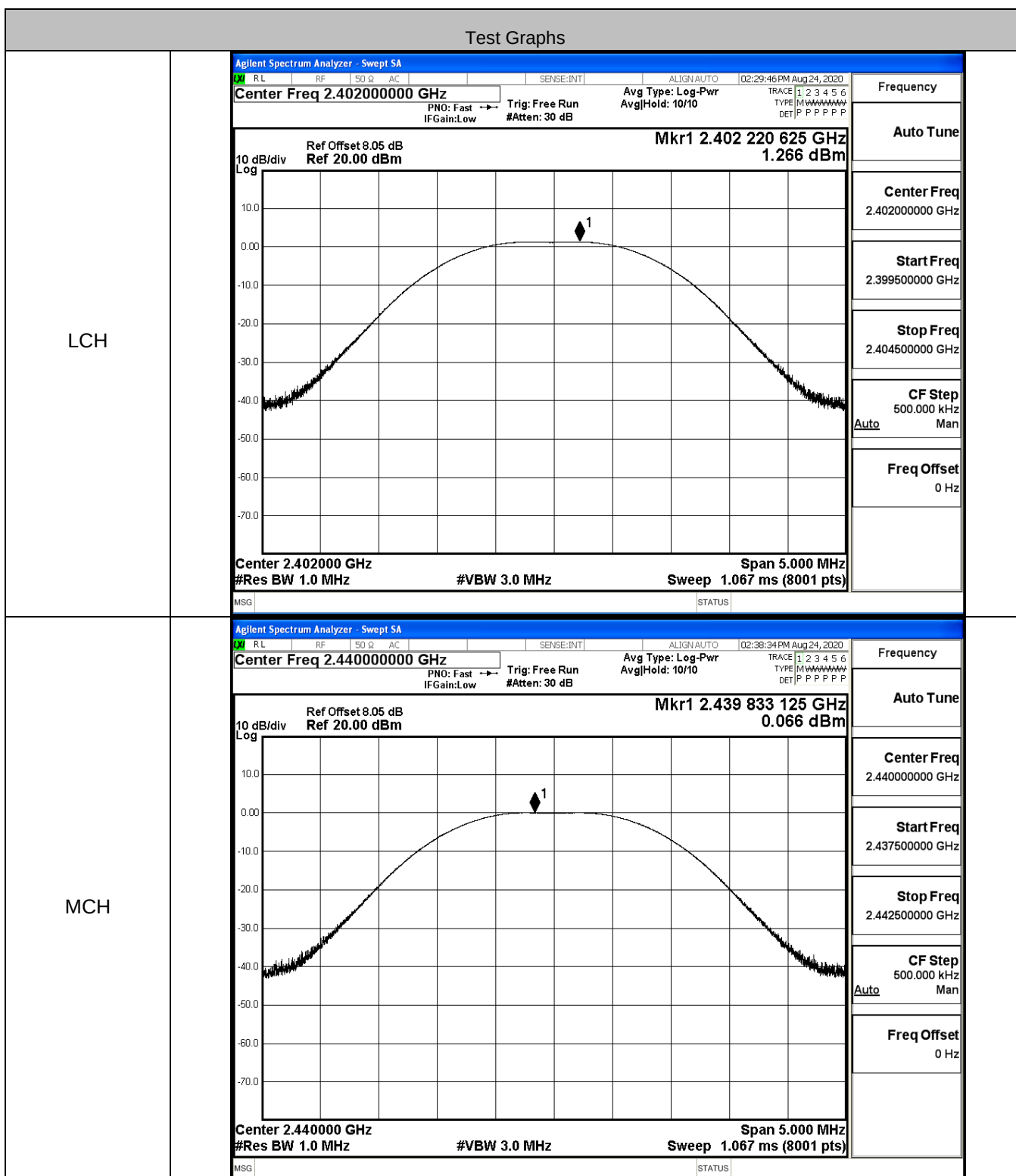
B.1 Duty Cycle

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

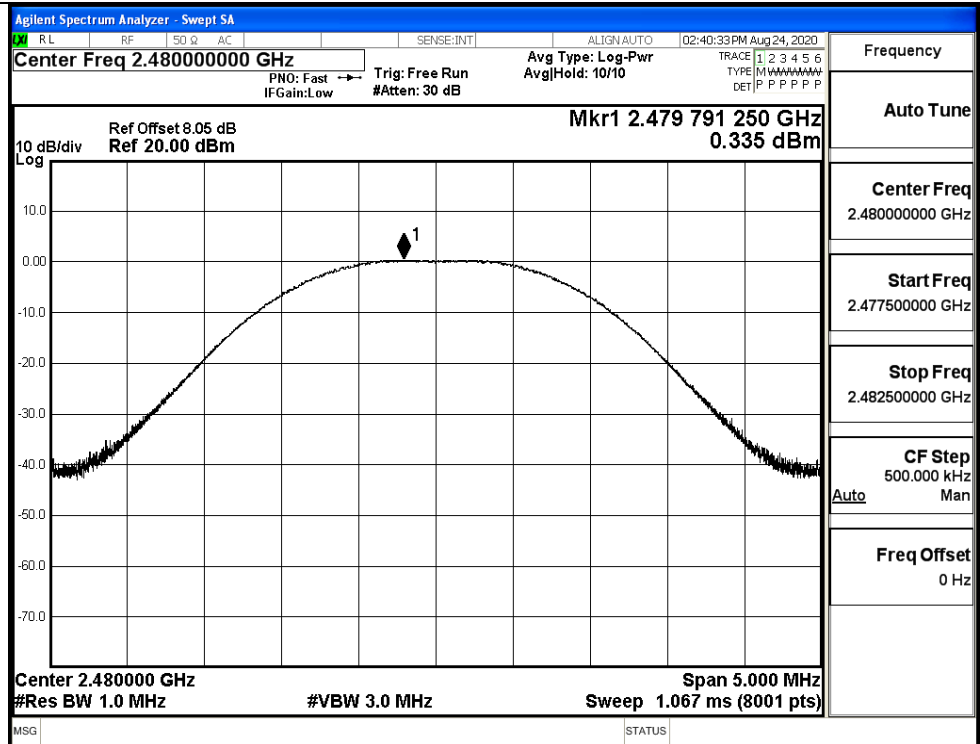


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BLE	LCH	1.266	30	PASS
BLE	MCH	0.066	30	PASS
BLE	HCH	0.335	30	PASS



HCH

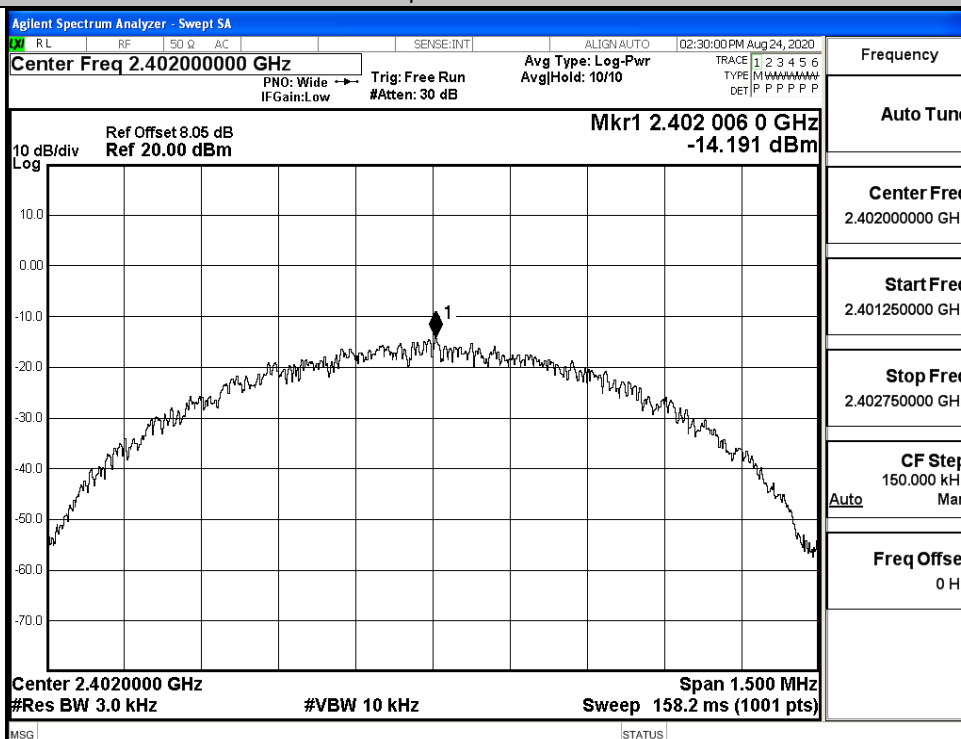


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BLE	LCH	-14.191	8	PASS
BLE	MCH	-15.498	8	PASS
BLE	HCH	-15.511	8	PASS

Test Graphs

LCH

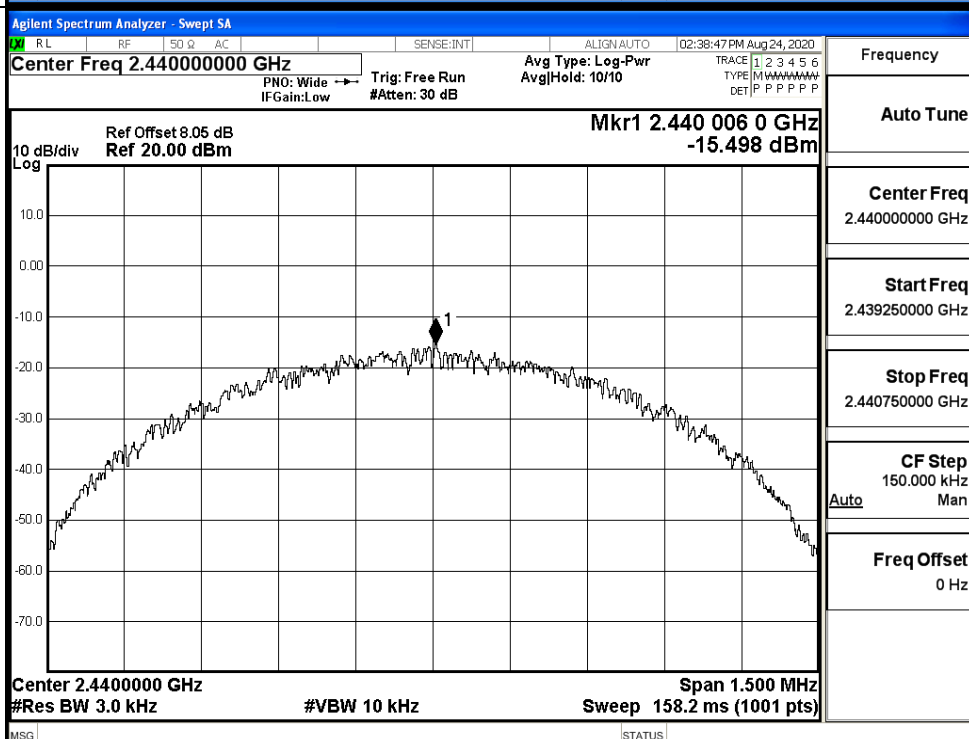


Frequency

Auto Tune

Center Freq
2.402000000 GHzStart Freq
2.401250000 GHzStop Freq
2.402750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

MCH

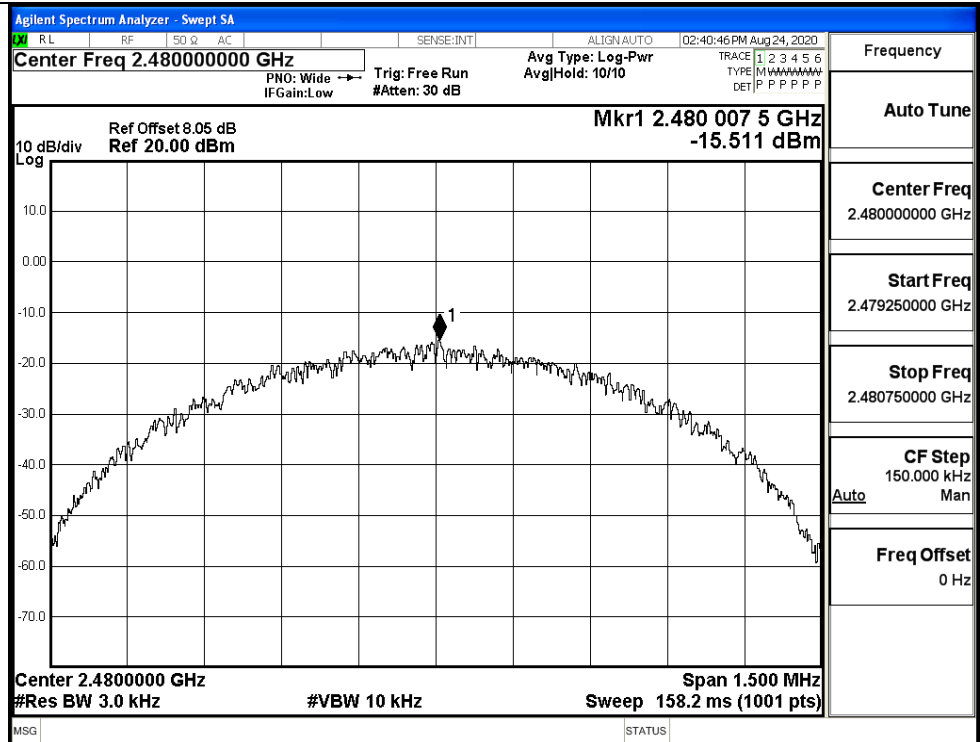


Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.439250000 GHzStop Freq
2.440750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

HCH

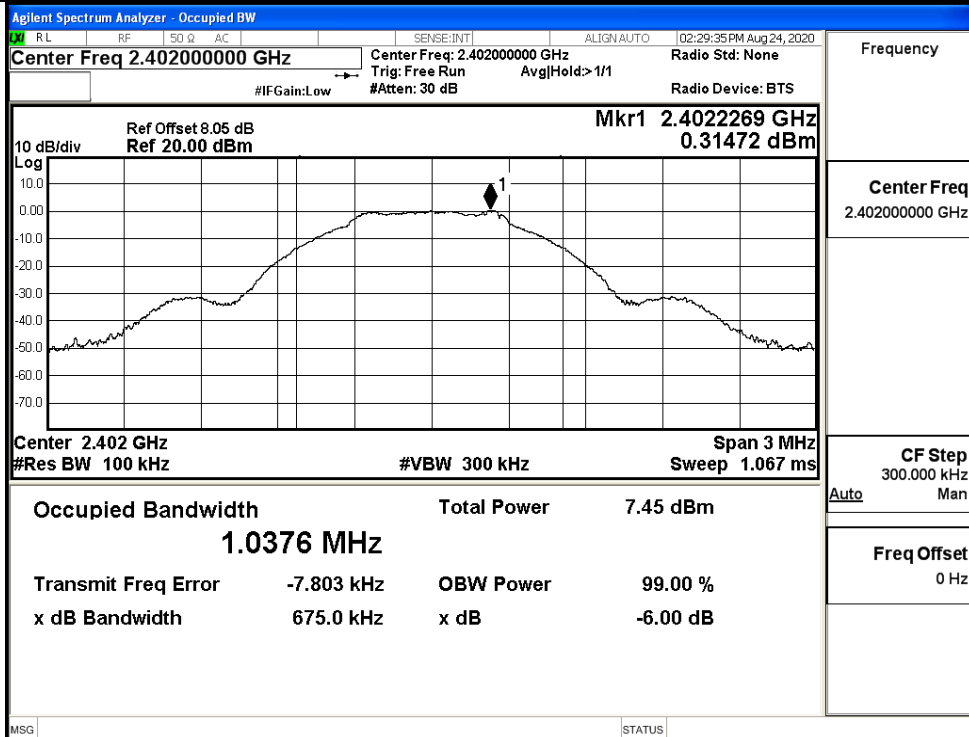


B.4 6dB Bandwidth

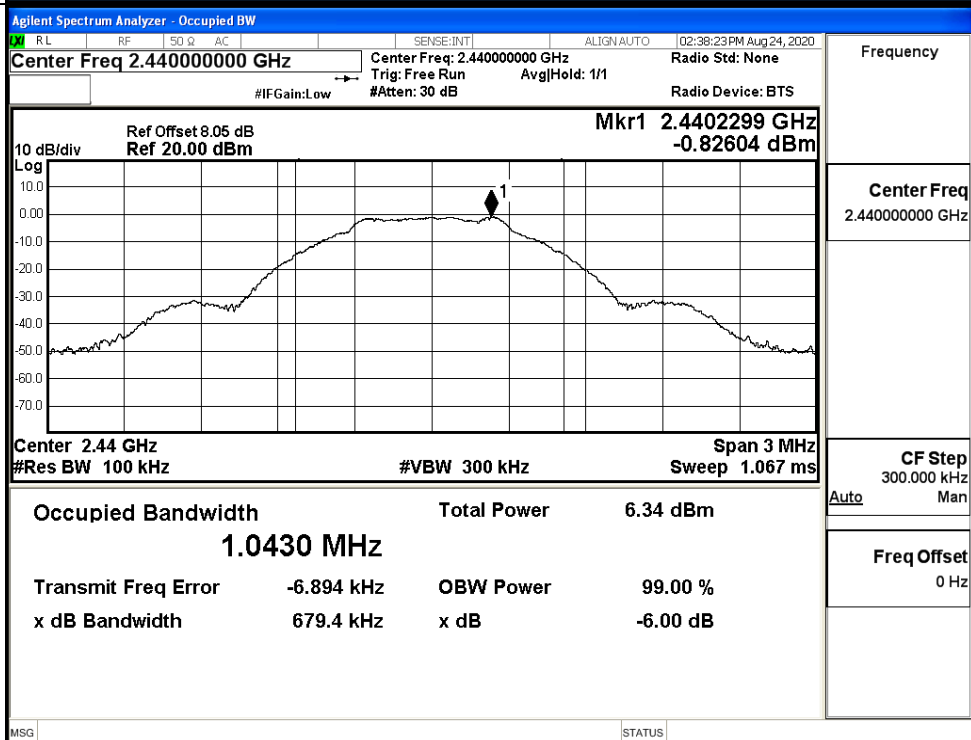
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BLE	LCH	0.6750	≥ 0.5	PASS
BLE	MCH	0.6794	≥ 0.5	PASS
BLE	HCH	0.6642	≥ 0.5	PASS

Test Graphs

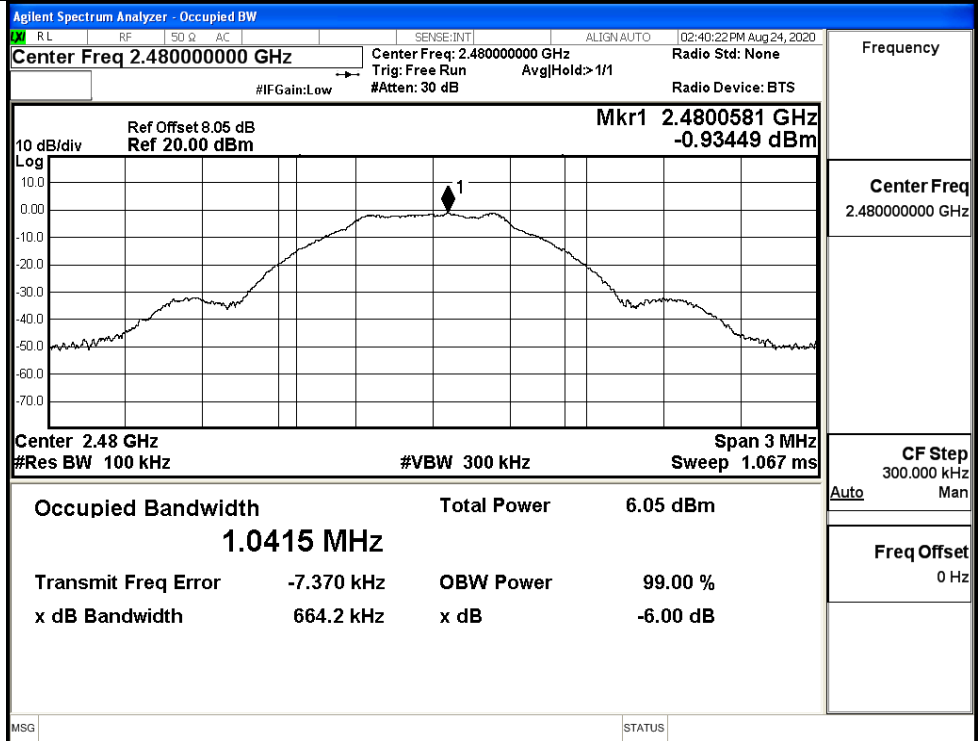
LCH



MCH



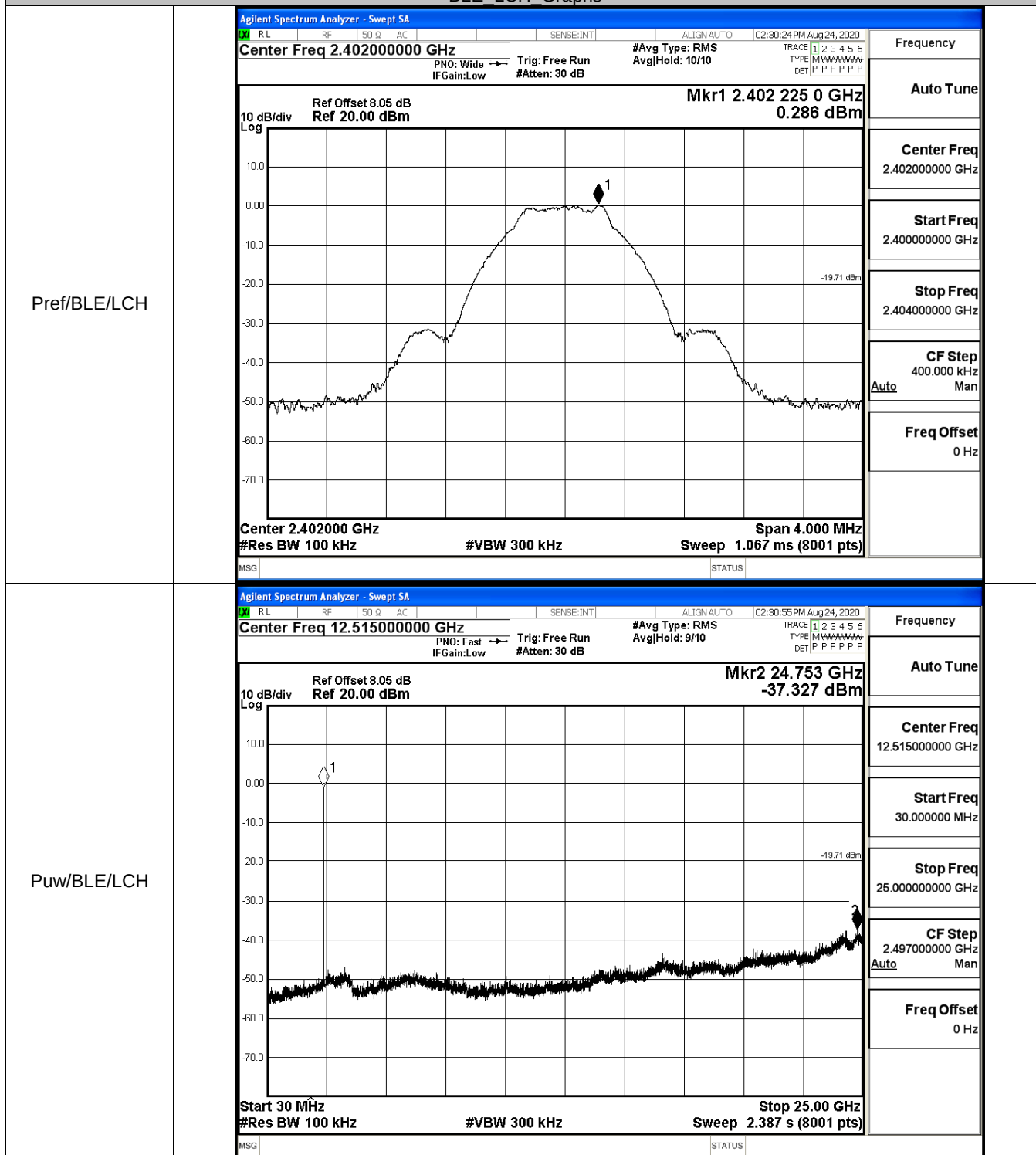
HCH



B.5 RF Conducted Spurious Emissions

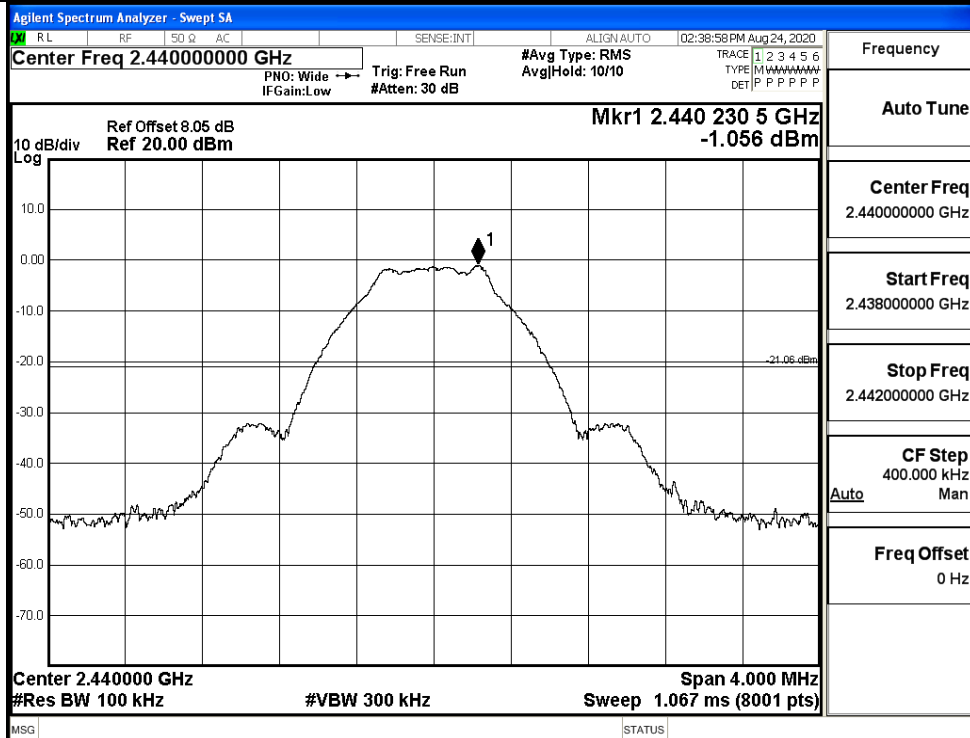
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	0.286	-37.327	-19.714	PASS
BLE	MCH	-1.056	-36.475	-21.056	PASS
BLE	HCH	-3.291	-36.868	-23.291	PASS

BLE LCH Graphs

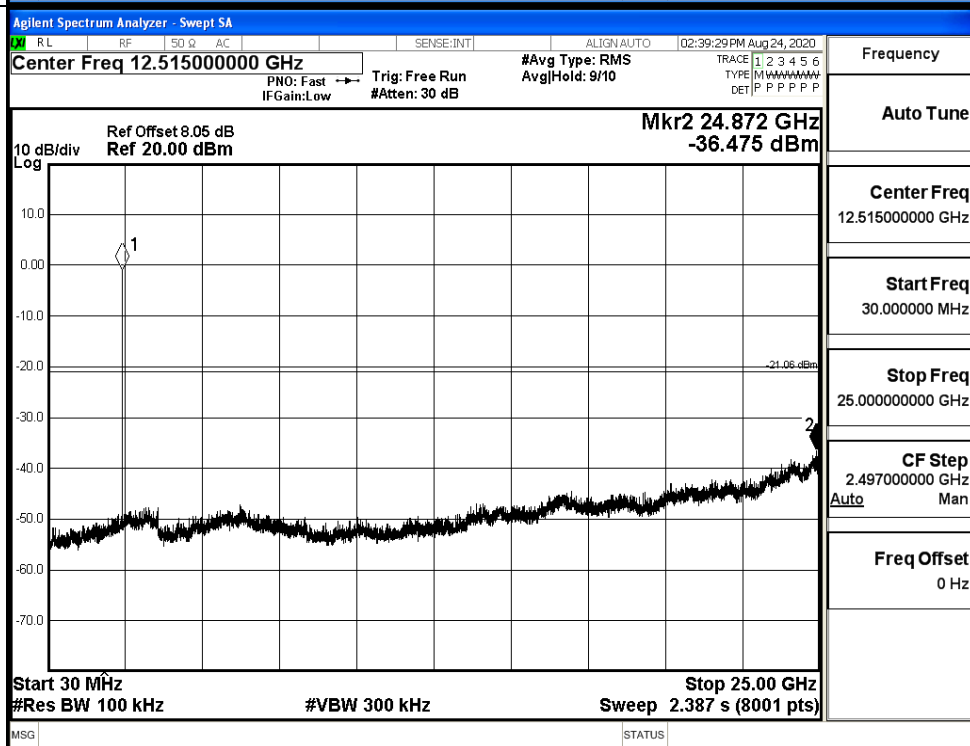


BLE MCH Graphs

Pref/BLE/MCH

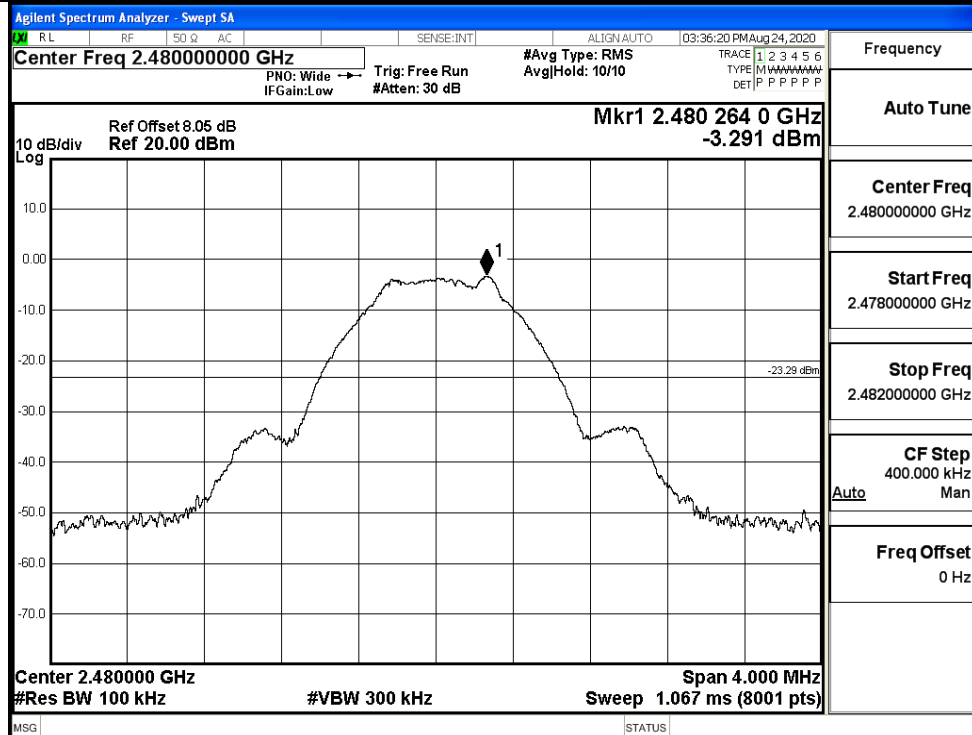


Puw/BLE/MCH

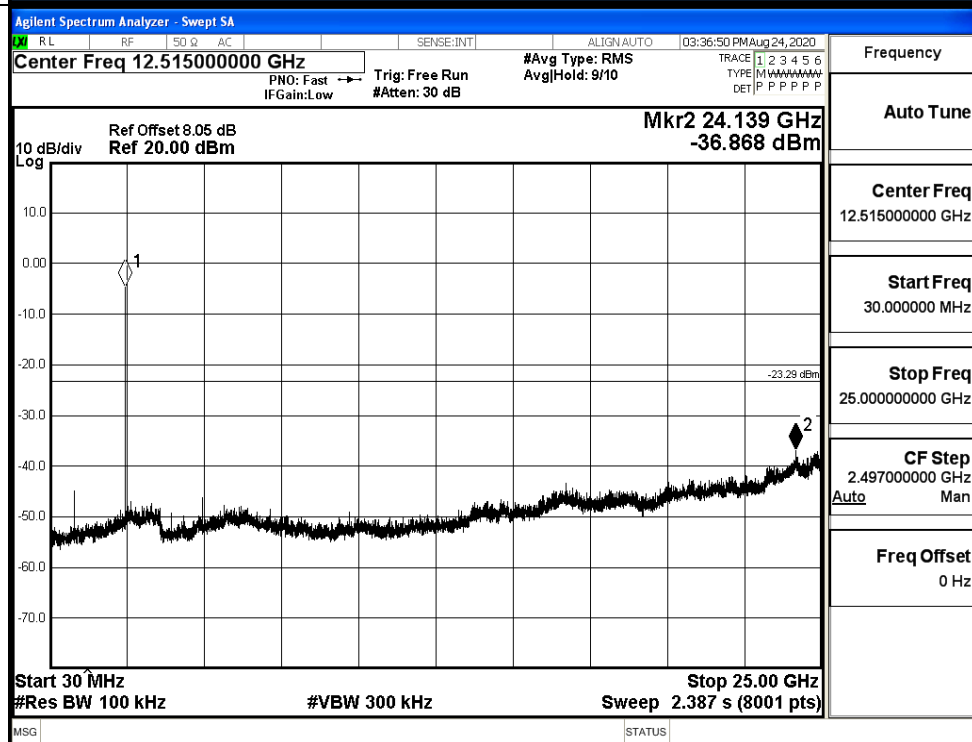


BLE_HCH_Graphs

Pref/BLE/HCH



Puw/BLE/HCH

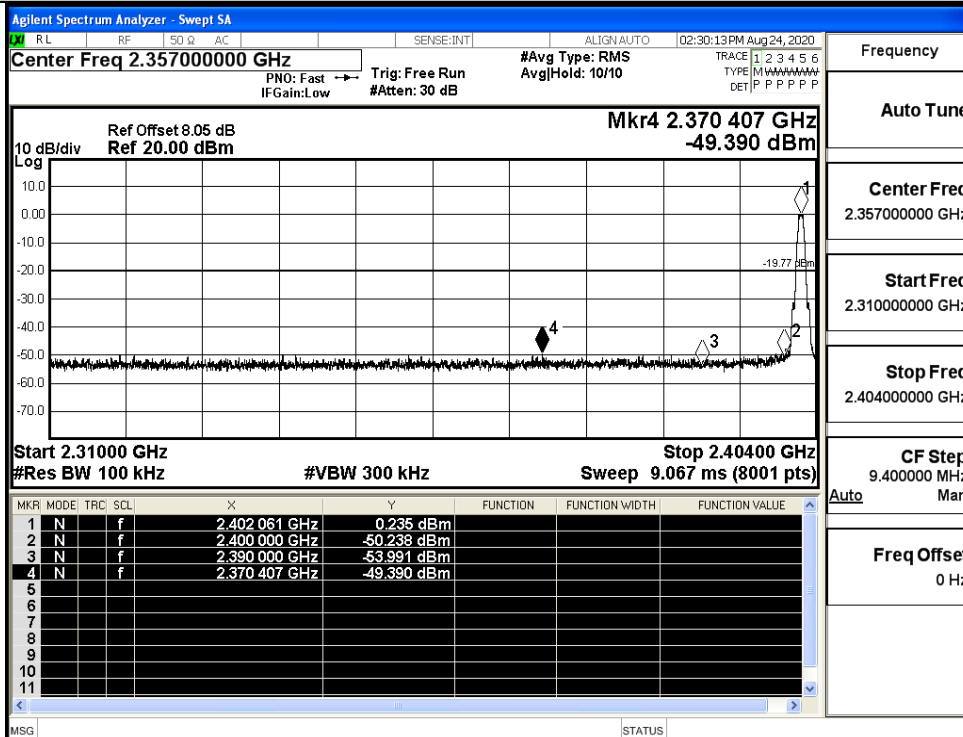


B.6 Band-edge for RF Conducted Emissions

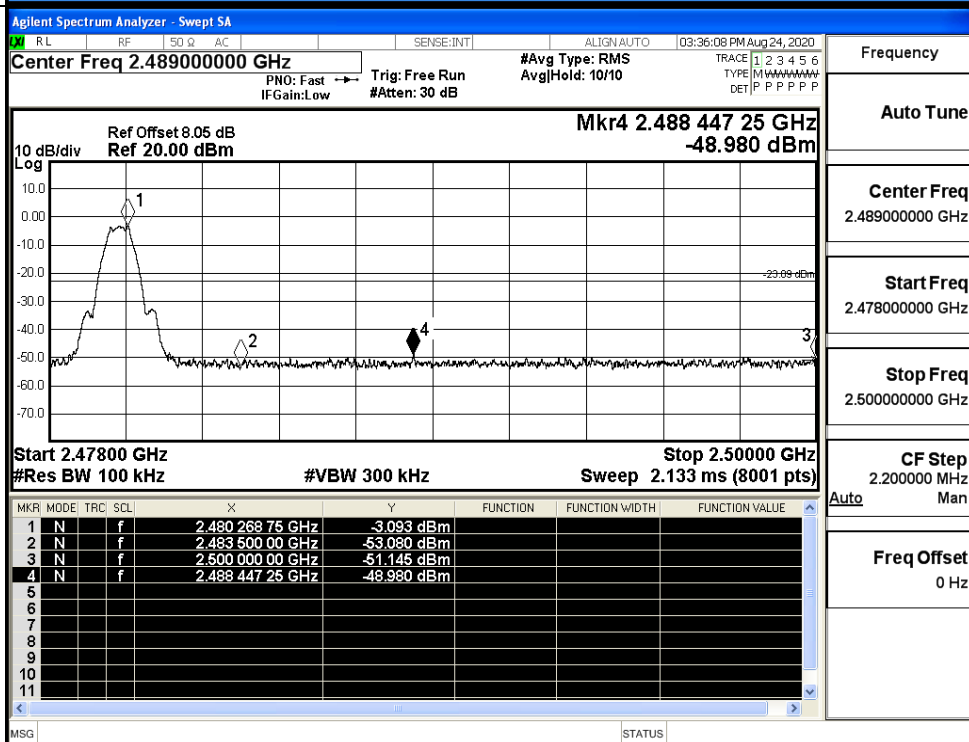
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	0.235	-49.390	-19.77	PASS
BLE	HCH	-3.093	-48.980	-23.093	PASS

Test Graphs

LCH



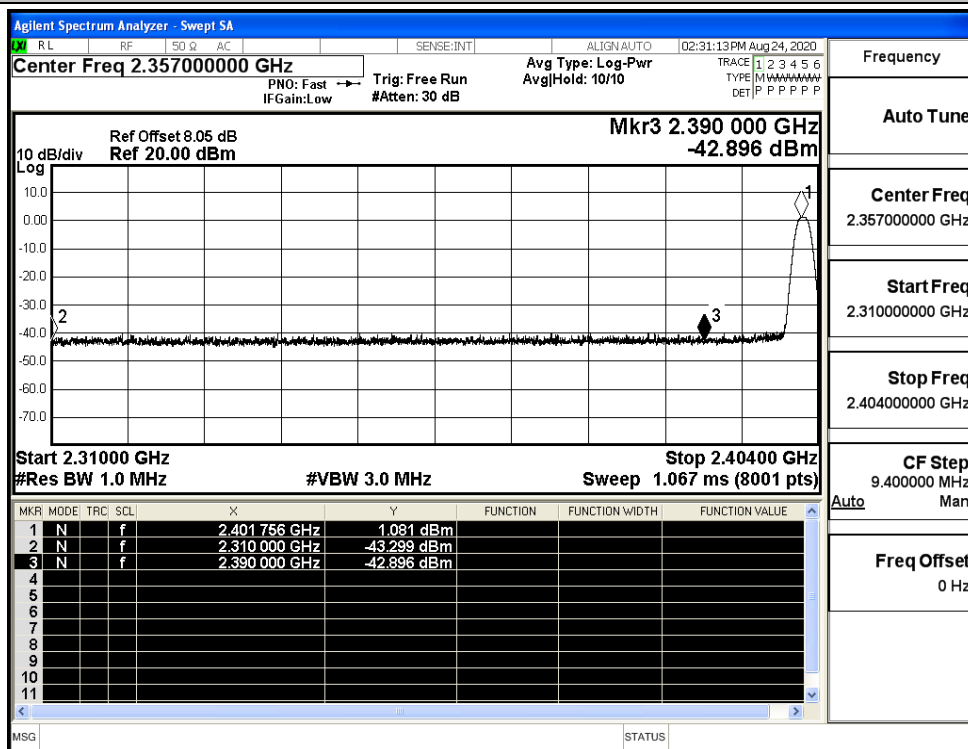
HCH



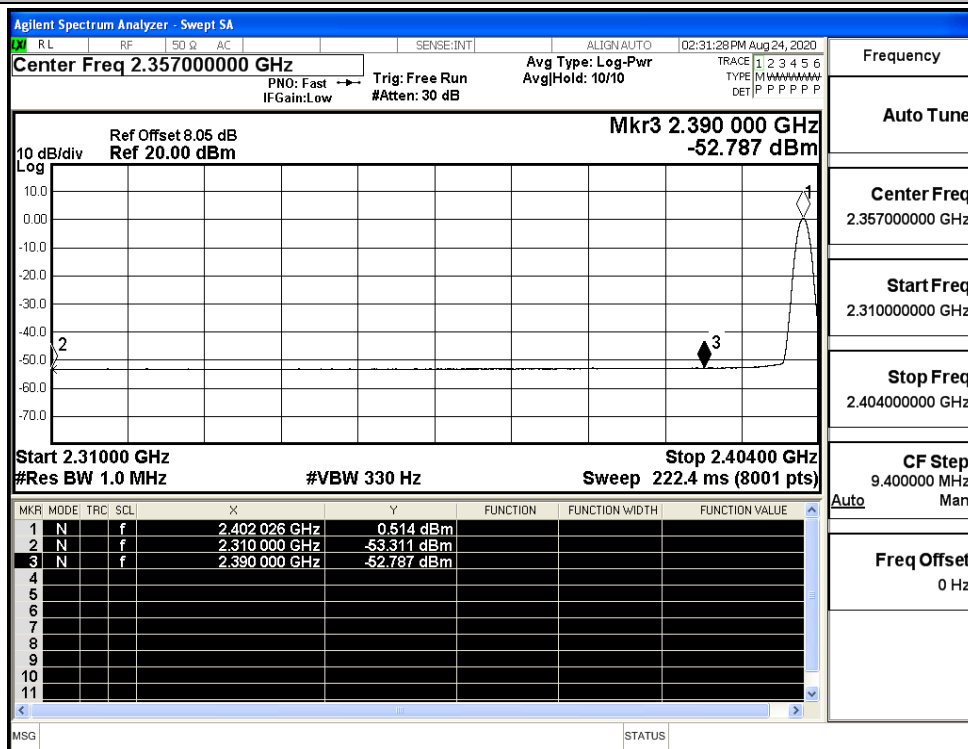
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BLE	2402	Ant1	2310.0	-43.30	2.0	0	53.93	PEAK	74	PASS
		Ant1	2310.0	-53.31	2.0	0	43.92	AV	54	PASS
		Ant1	2390.0	-42.90	2.0	0	54.33	PEAK	74	PASS
		Ant1	2390.0	-52.79	2.0	0	44.44	AV	54	PASS
	2480	Ant1	2483.5	-41.50	2.0	0	55.73	PEAK	74	PASS
		Ant1	2483.5	-52.58	2.0	0	44.65	AV	54	PASS
		Ant1	2500.0	-42.30	2.0	0	54.93	PEAK	74	PASS
		Ant1	2500.0	-52.48	2.0	0	44.75	AV	54	PASS

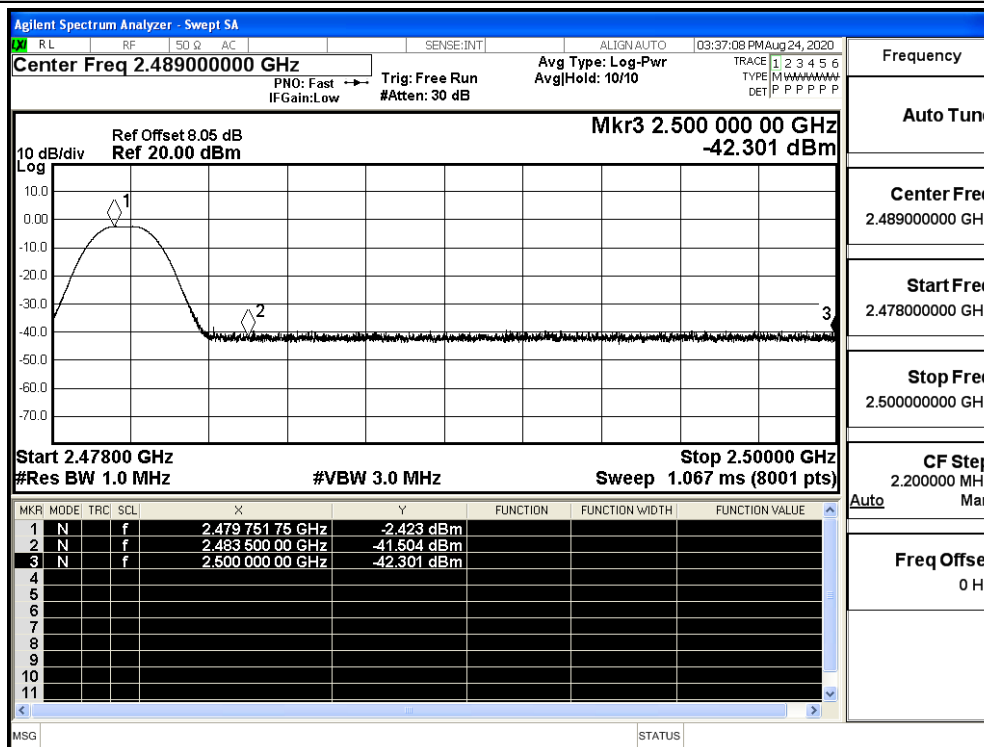
Restrict-band band-edge measurements_BLE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2402_Ant1_AV



Restrict-band band-edge measurements_BLE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2480_Ant1_AV

