

Appendix A

RF Test Data for BT V4.0(BLE) (Conducted Measurement)

Product Name: Wireless weight sensor

Trade Mark: N/A

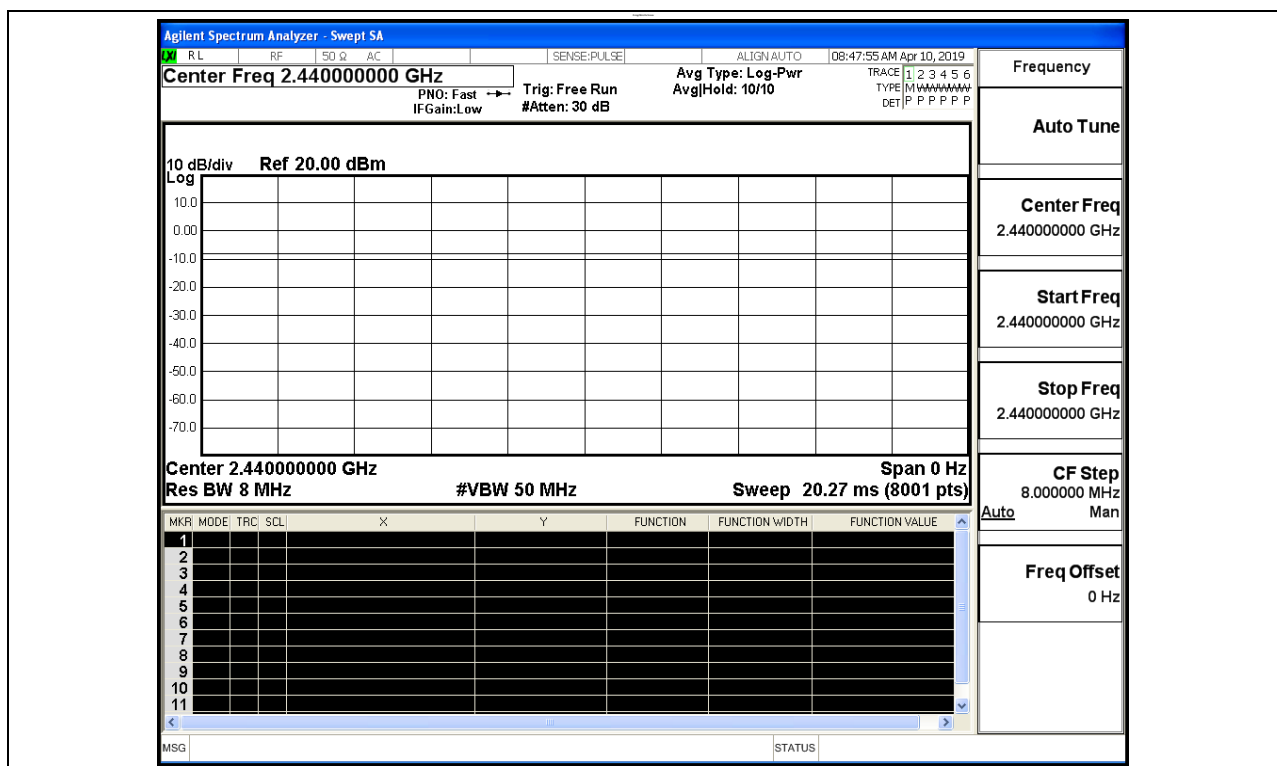
Test Model: PW001

Environmental Conditions

Temperature:	23.9 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Tom.Liu

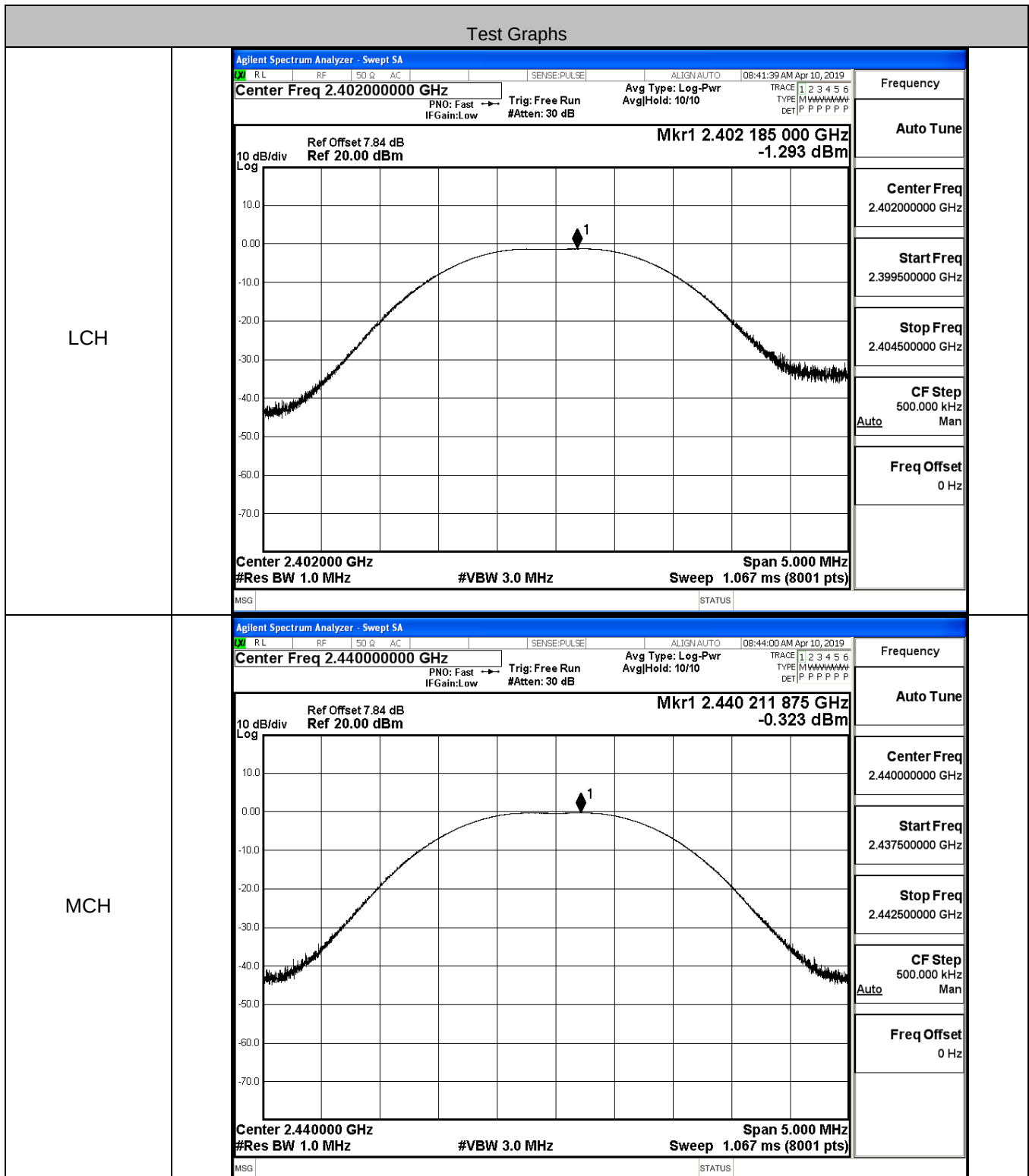
A.1 Duty Cycle

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

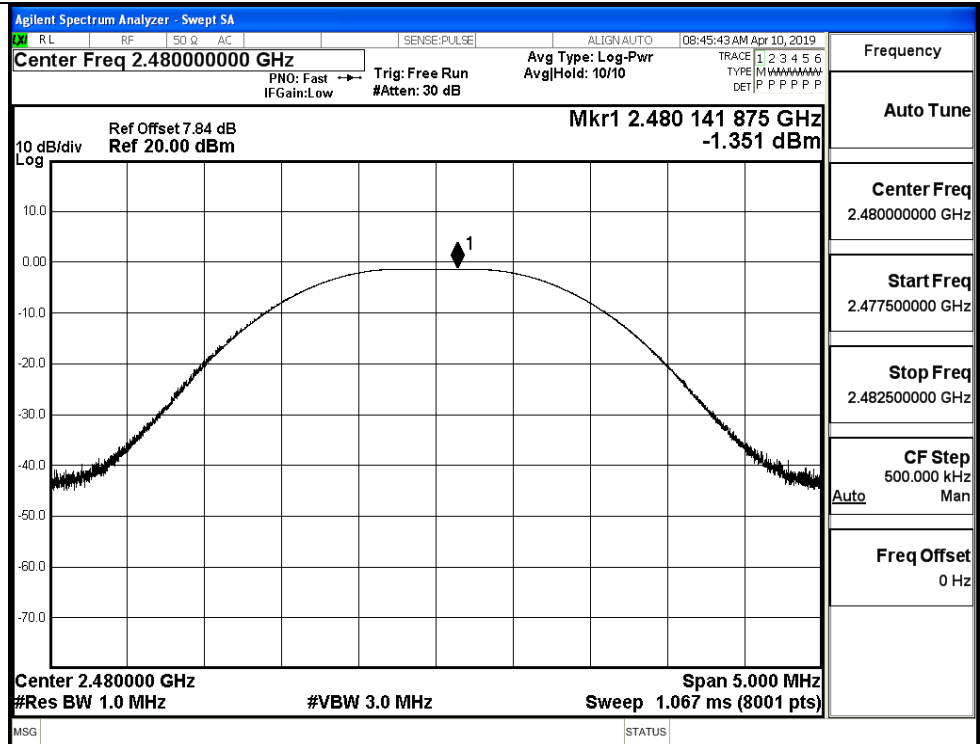


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.293	30	PASS
BT LE	MCH	-0.323	30	PASS
BT LE	HCH	-1.351	30	PASS



HCH

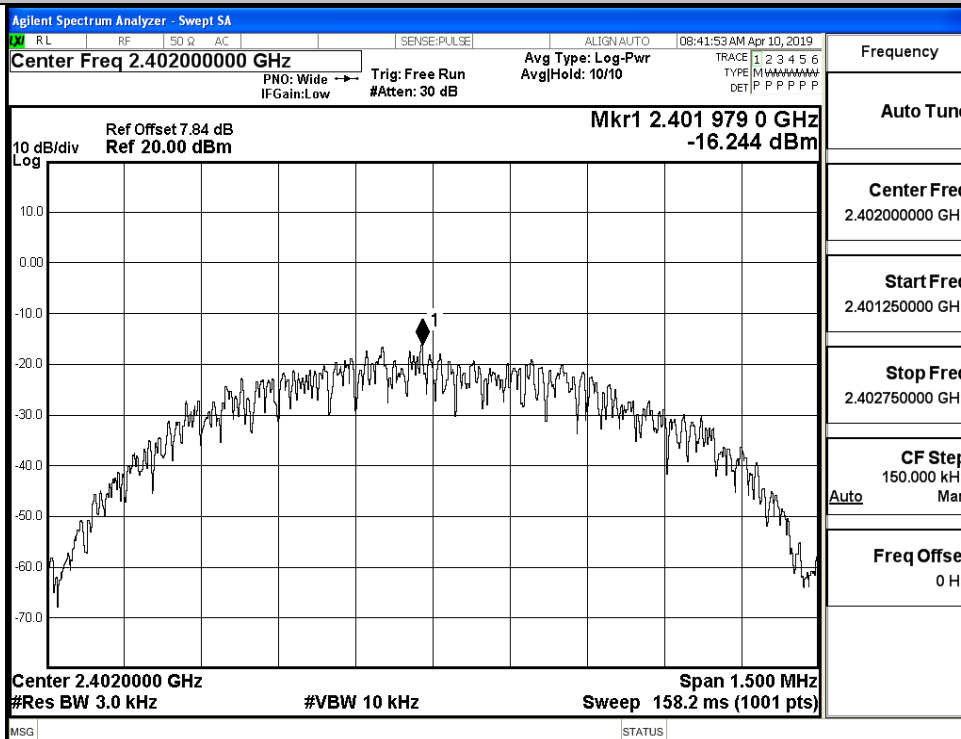


A.3 Maximum Power Spectral Density

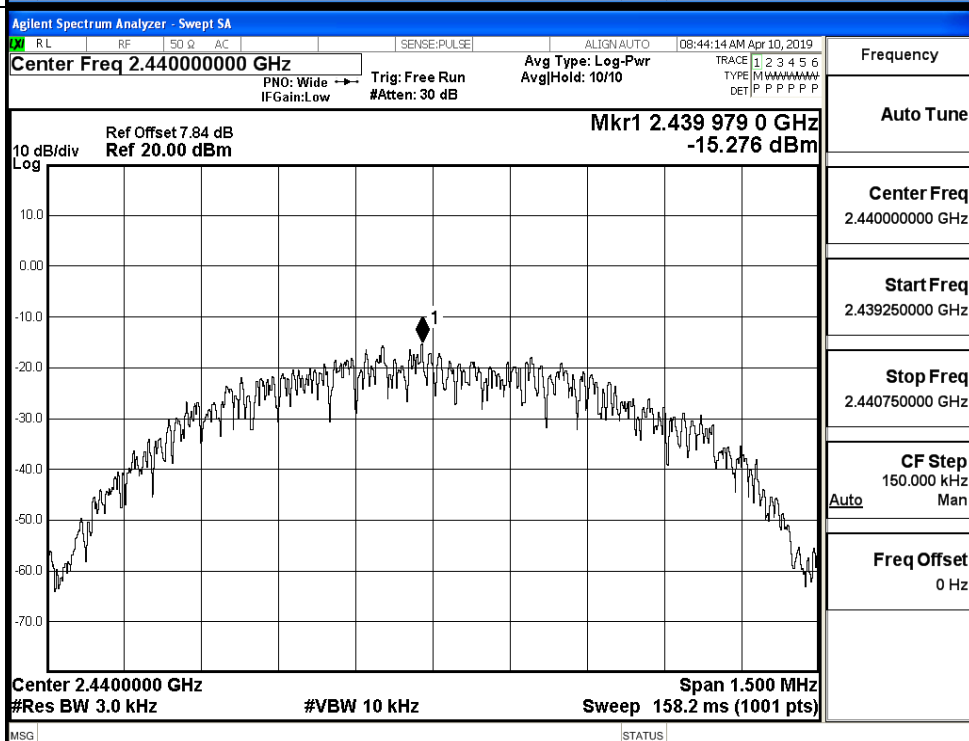
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.244	8	PASS
BT LE	MCH	-15.276	8	PASS
BT LE	HCH	-16.310	8	PASS

Test Graphs

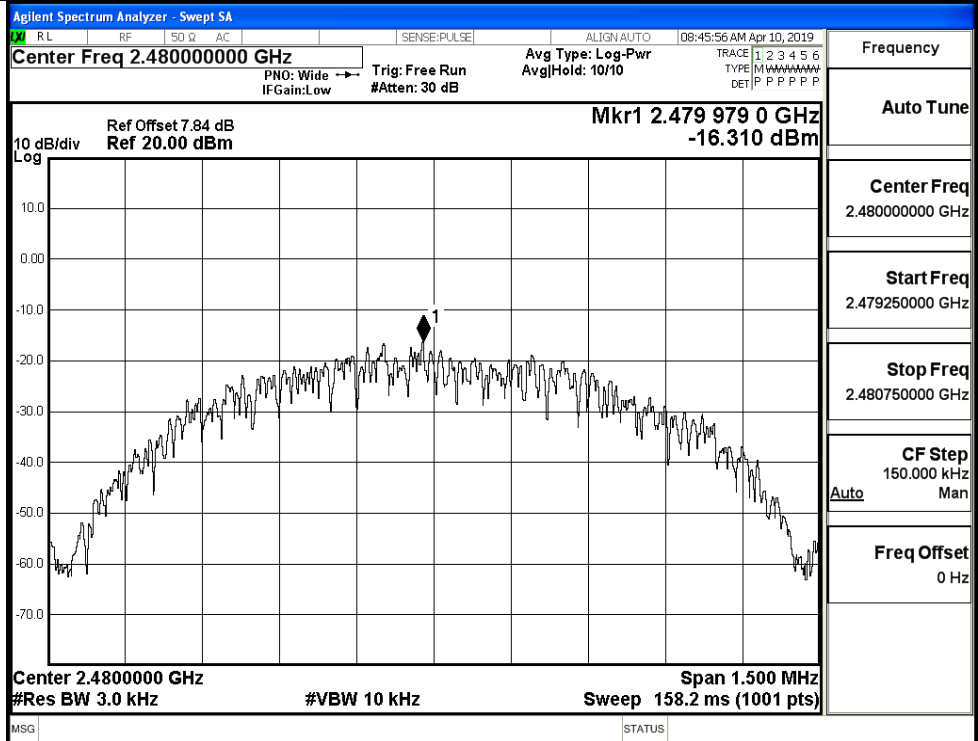
LCH



MCH



HCH

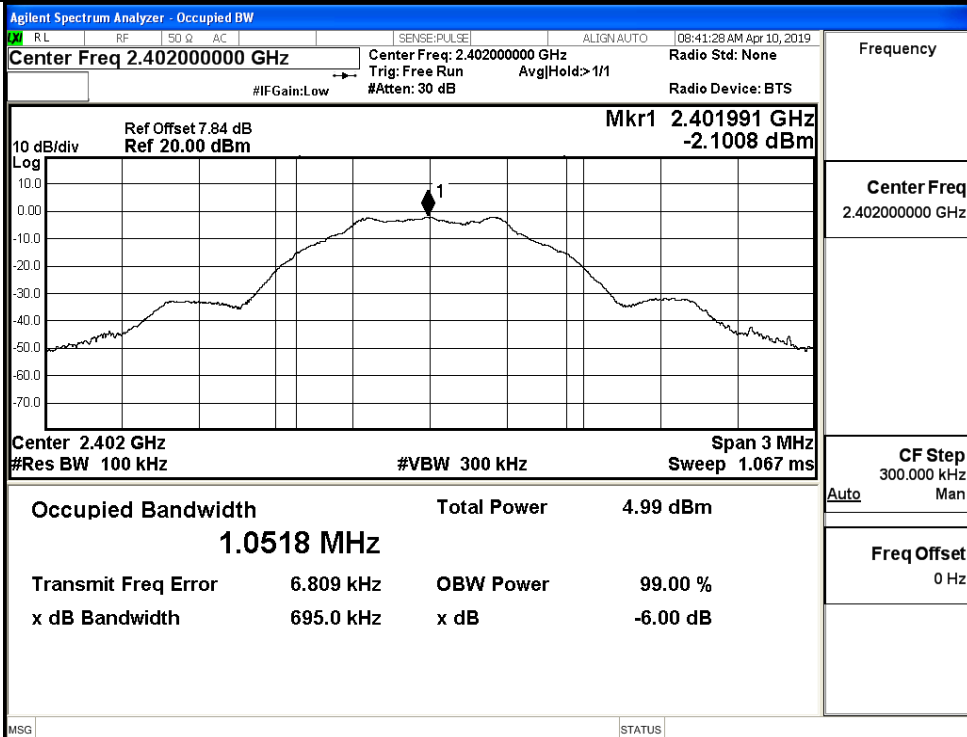


A.4 6dB Bandwidth

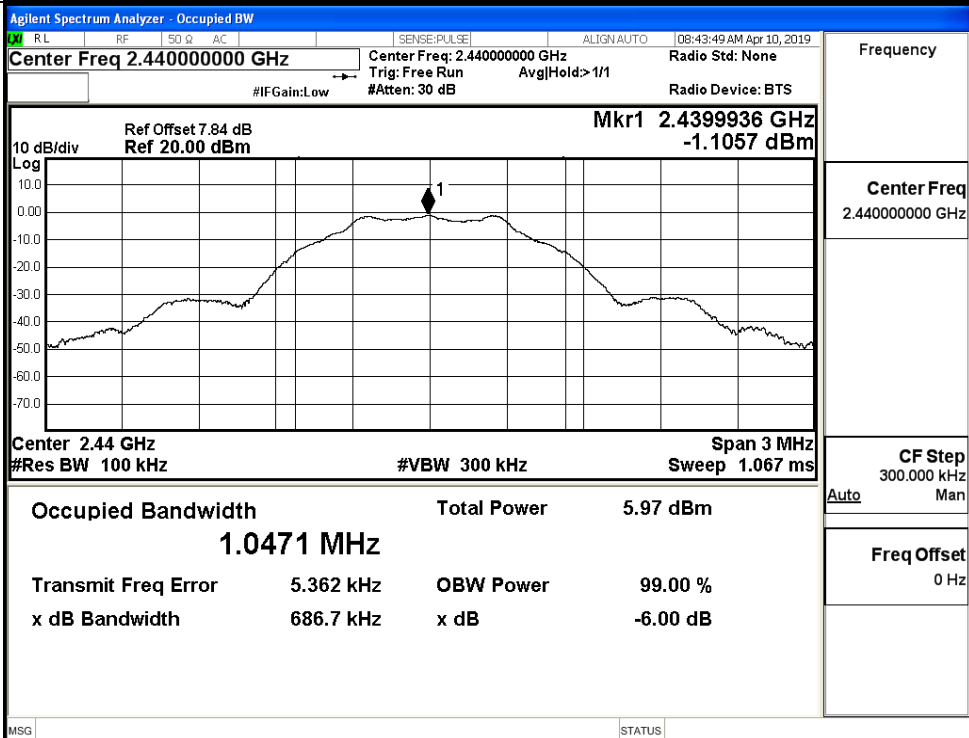
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6950	≥ 0.5	PASS
BT LE	MCH	0.6867	≥ 0.5	PASS
BT LE	HCH	0.6871	≥ 0.5	PASS

Test Graphs

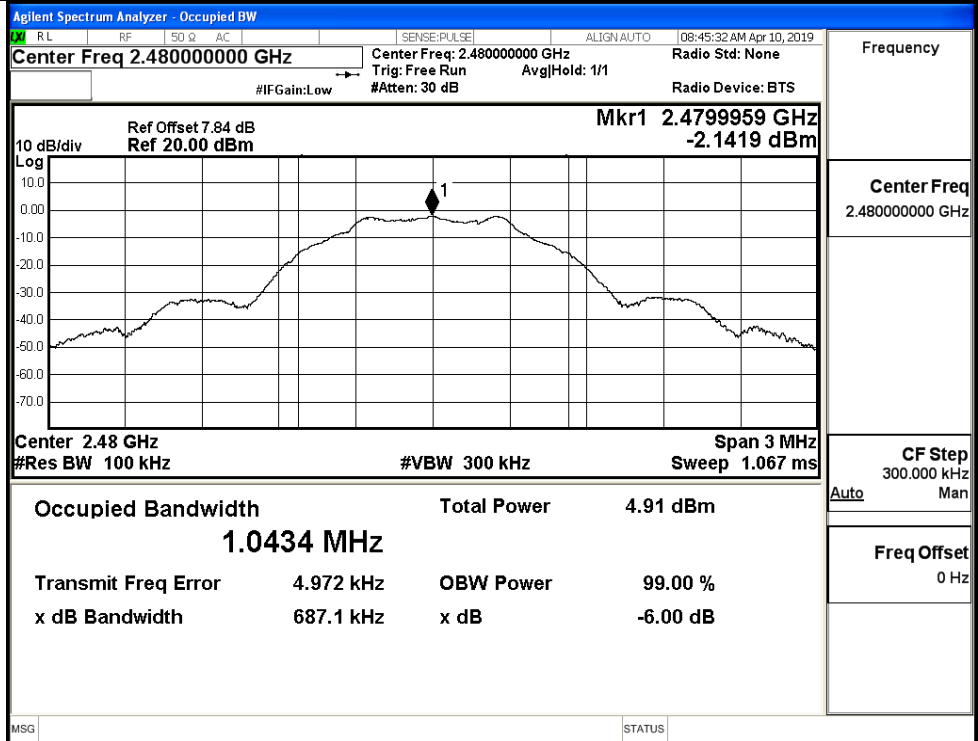
LCH



MCH



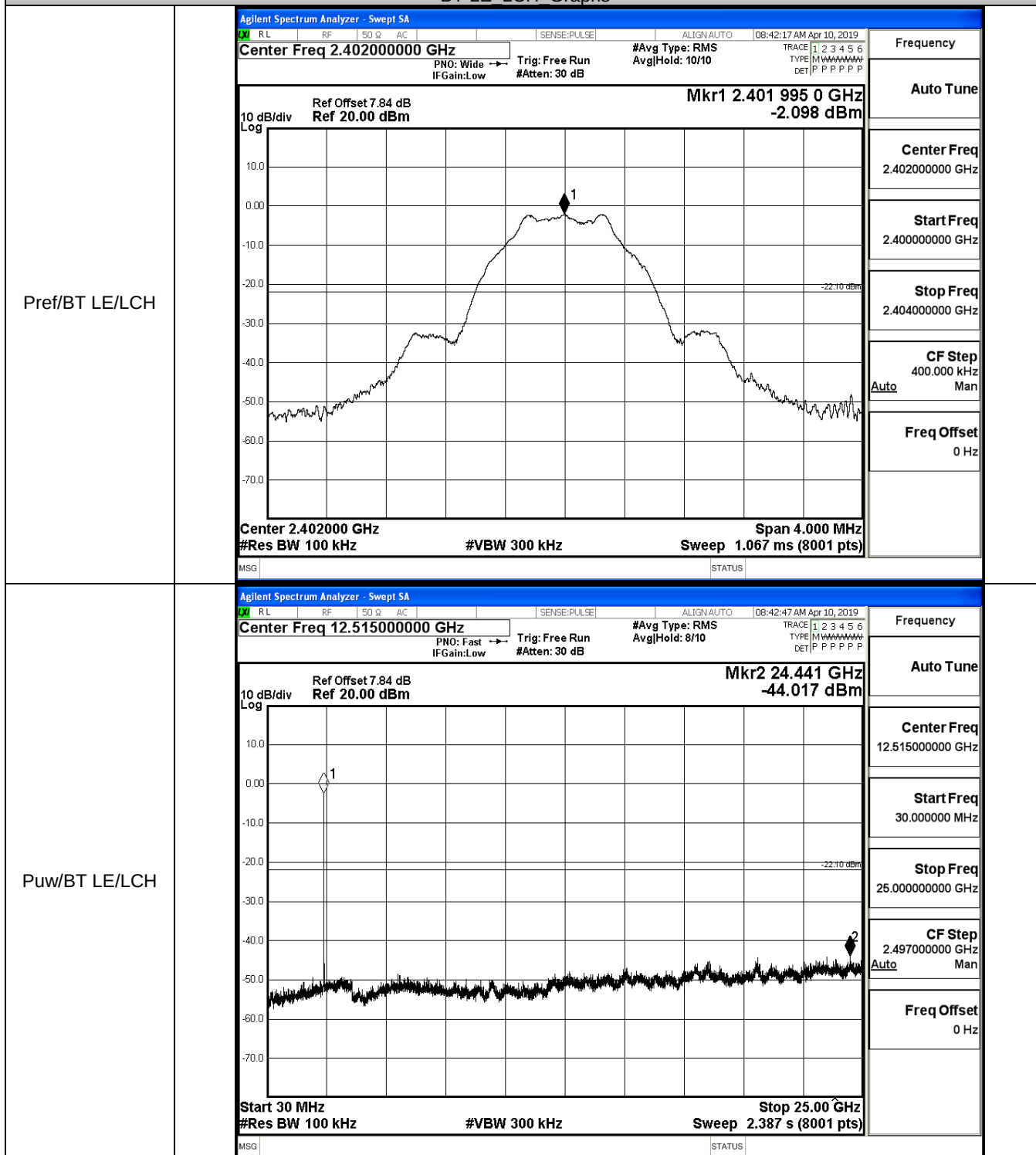
HCH



A.5 RF Conducted Spurious Emissions

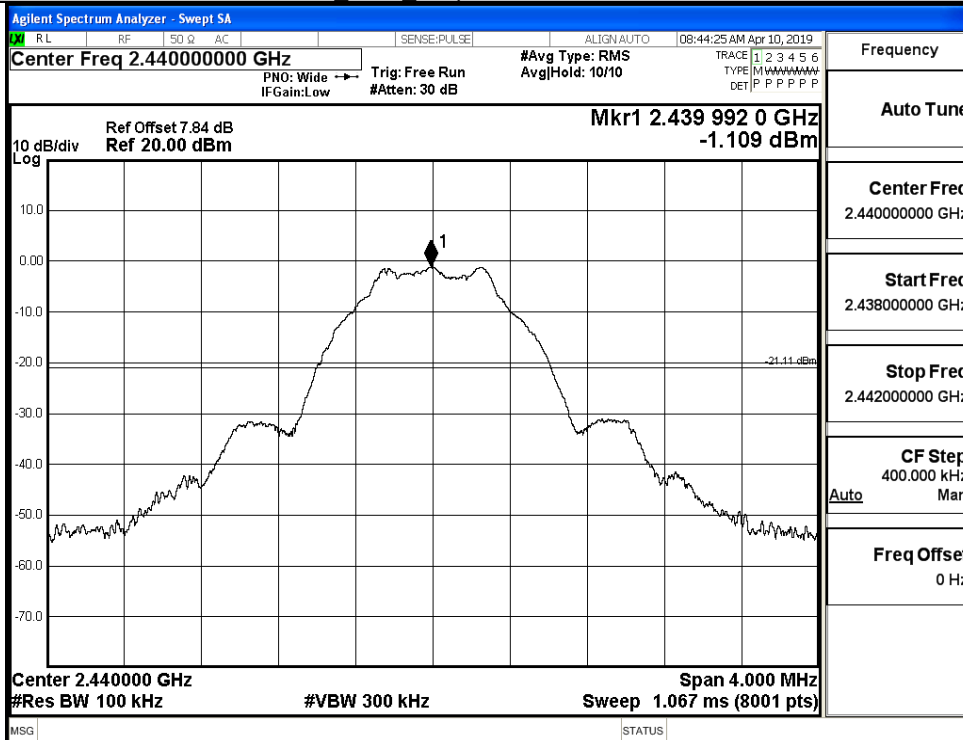
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.098	-44.017	-22.098	PASS
BT LE	MCH	-1.109	-38.929	-21.109	PASS
BT LE	HCH	-2.239	-44.949	-22.239	PASS

BT LE LCH Graphs

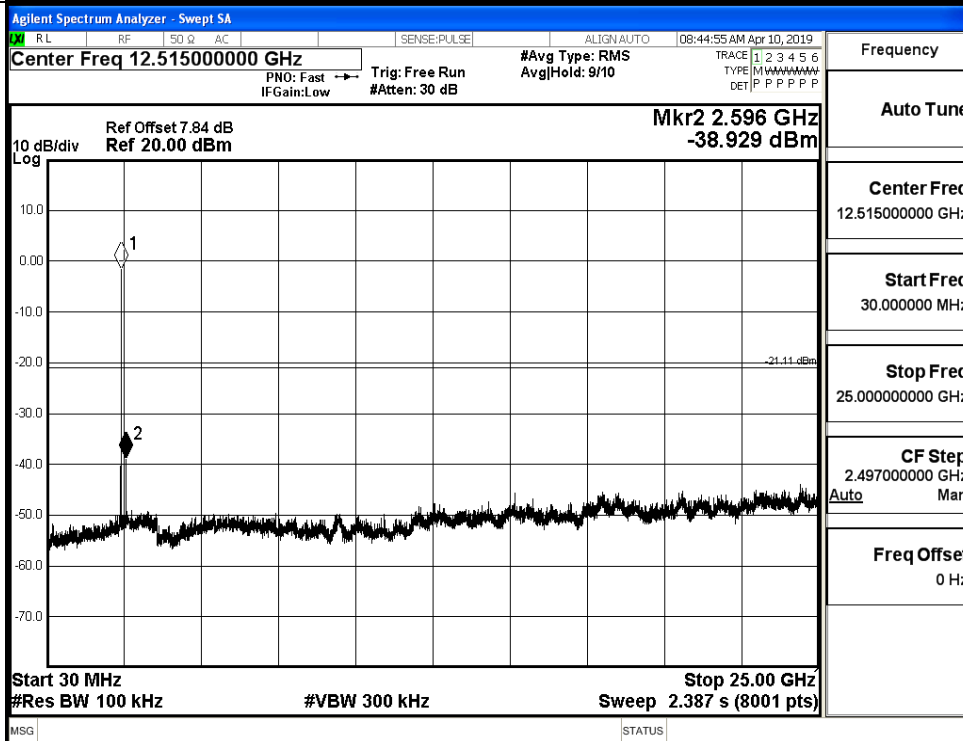


BT LE MCH Graphs

Pref/BT LE/MCH

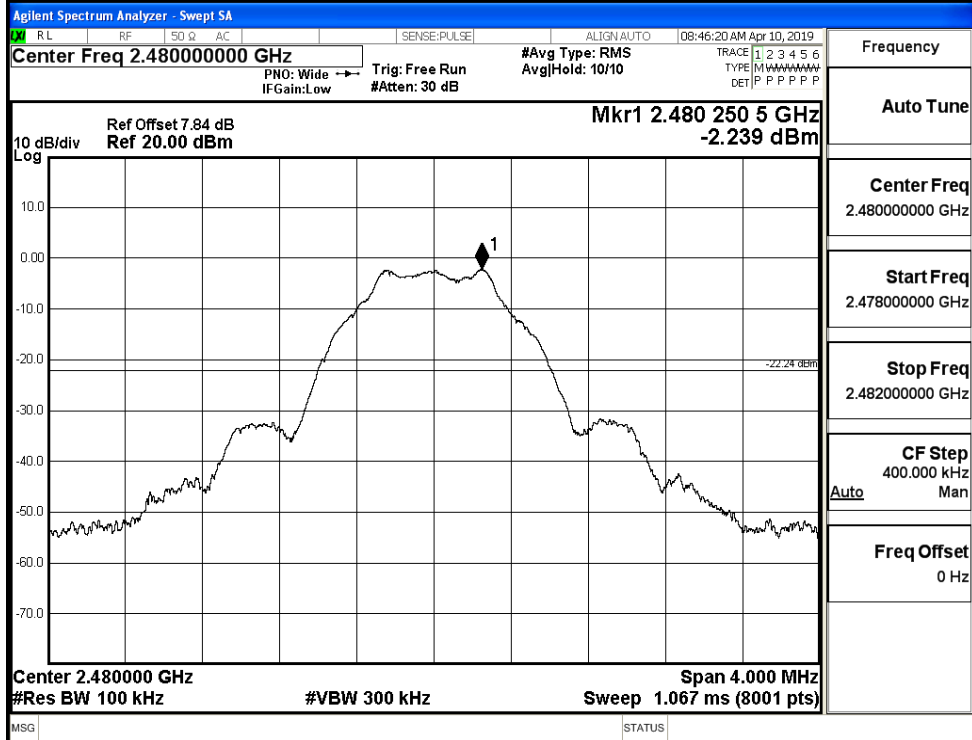


Puw/BT LE/MCH

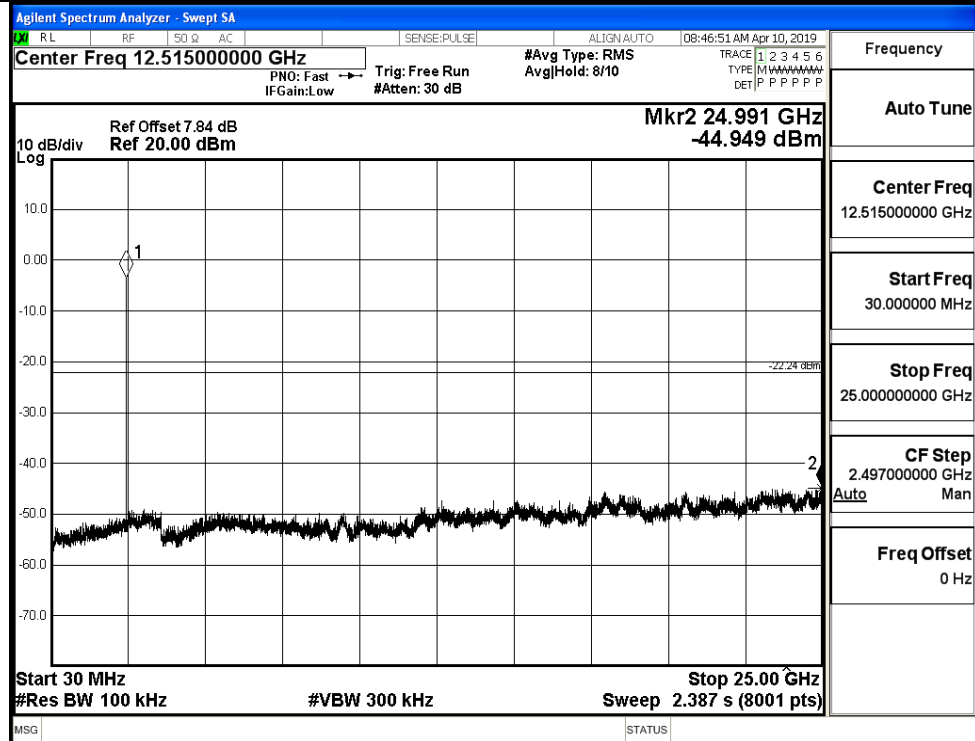


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

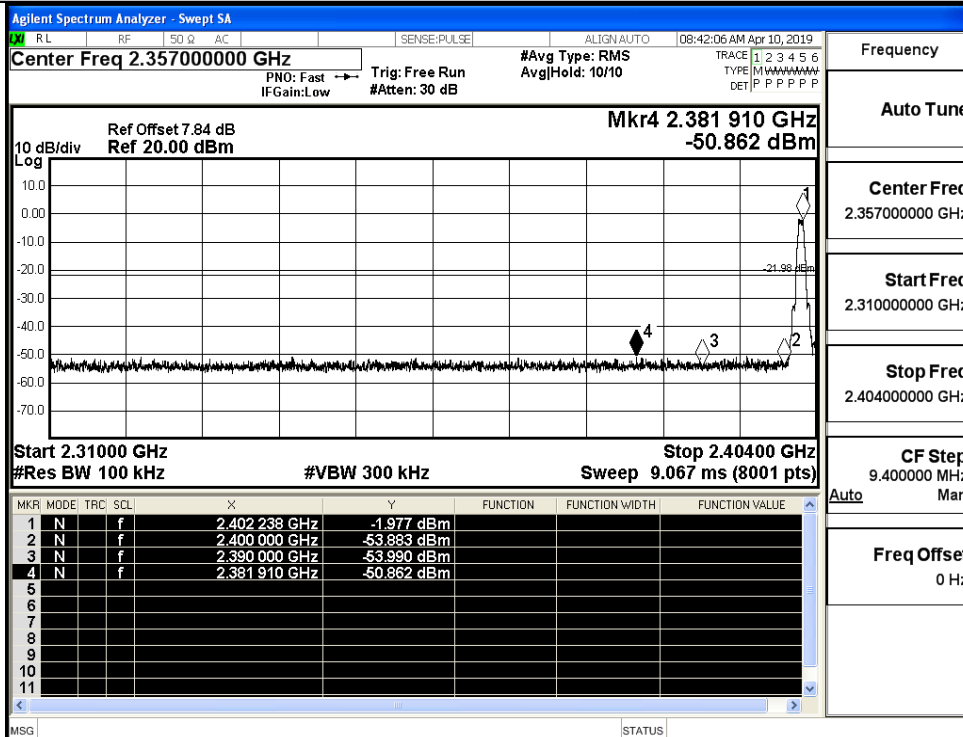


A.6 Band-edge for RF Conducted Emissions

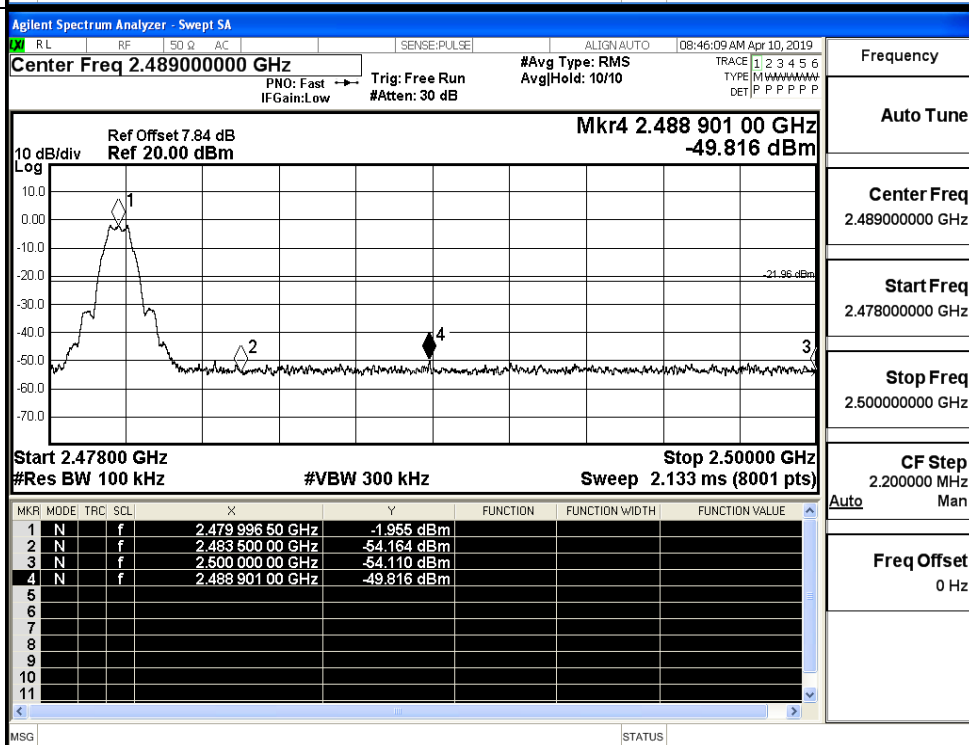
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.977	-50.862	-21.98	PASS
BT LE	HCH	-1.955	-49.816	-21.96	PASS

Test Graphs

LCH



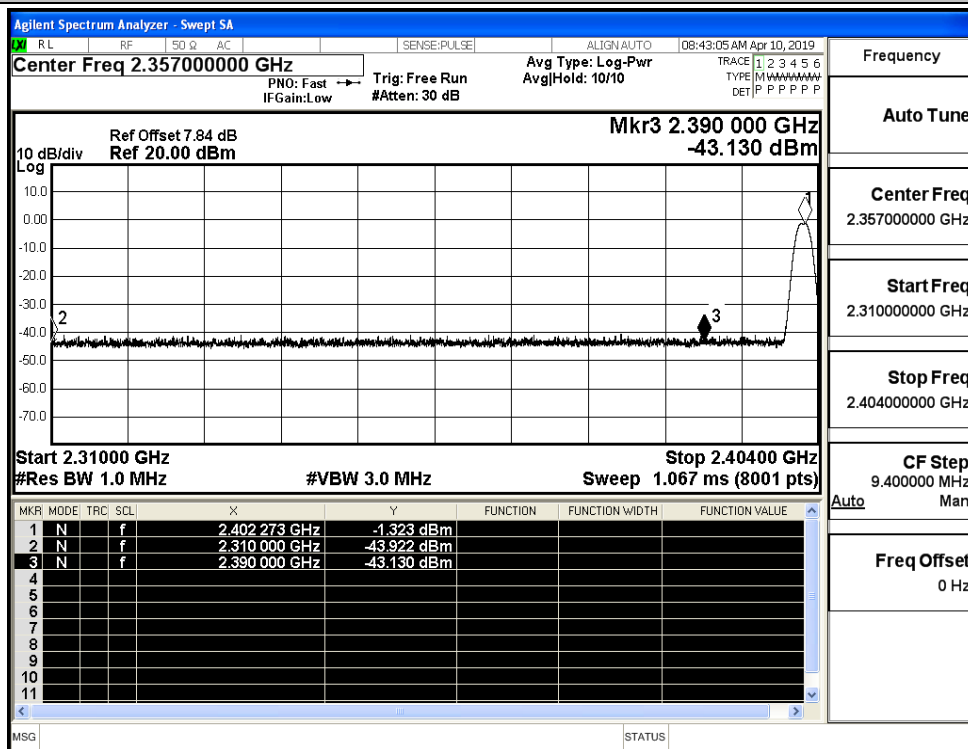
HCH



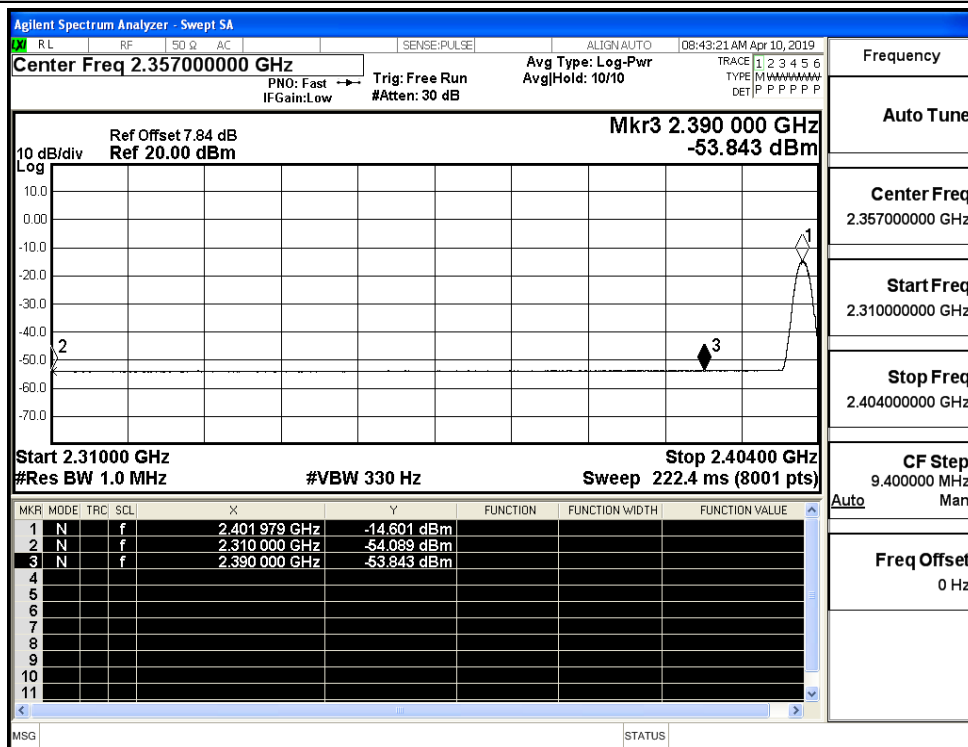
A.7 Restrict-band band-edge measurements

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	-43.92	2.0	0	51.34	PEAK	74	PASS
		Ant1	2310.0	-54.09	2.0	0	41.17	AV	54	PASS
		Ant1	2390.0	-43.13	2.0	0	52.13	PEAK	74	PASS
		Ant1	2390.0	-53.84	2.0	0	41.41	AV	54	PASS
	2480	Ant1	2483.5	-43.52	2.0	0	51.74	PEAK	74	PASS
		Ant1	2483.5	-53.51	2.0	0	41.75	AV	54	PASS
		Ant1	2500.0	-44.64	2.0	0	50.62	PEAK	74	PASS
		Ant1	2500.0	-53.38	2.0	0	41.88	AV	54	PASS

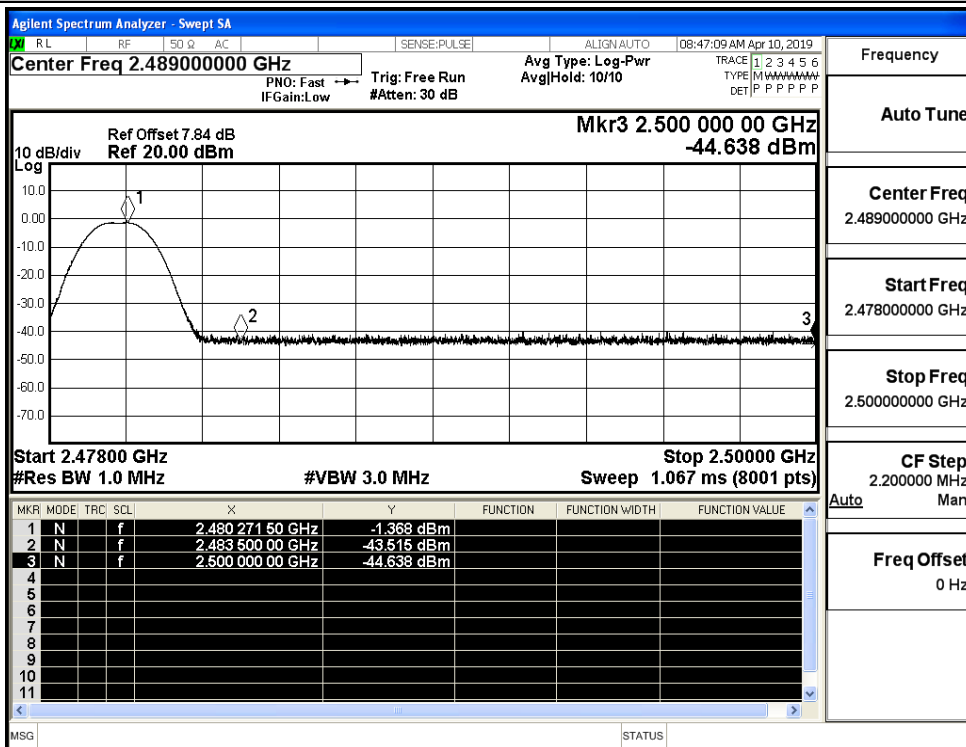
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

