



Appendix A

RF Test Data for BT LE V4.2 (DTS) (Conducted Measurement)

Product Name: Bluetooth Light Bar

Trade Mark: N/A

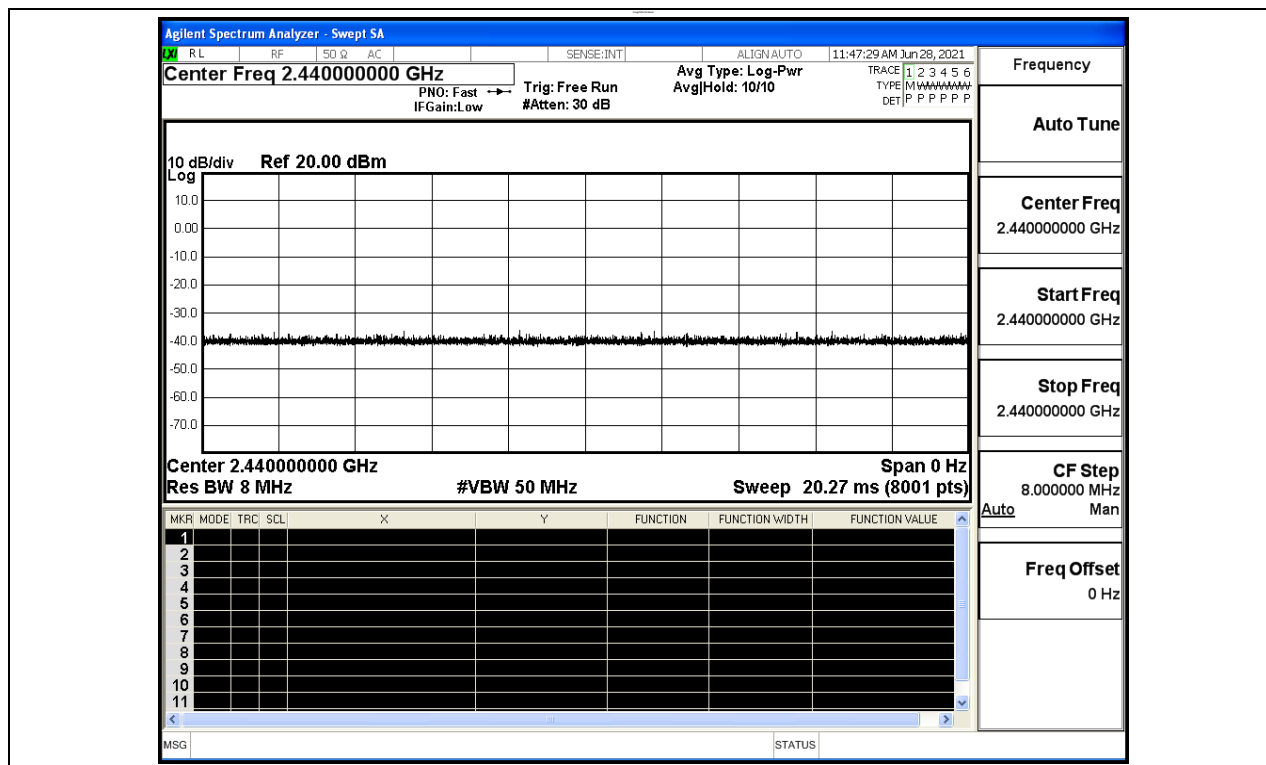
Test Model: XO-9912-2

Environmental Conditions

Temperature:	21.6 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

A.1 Duty Cycle

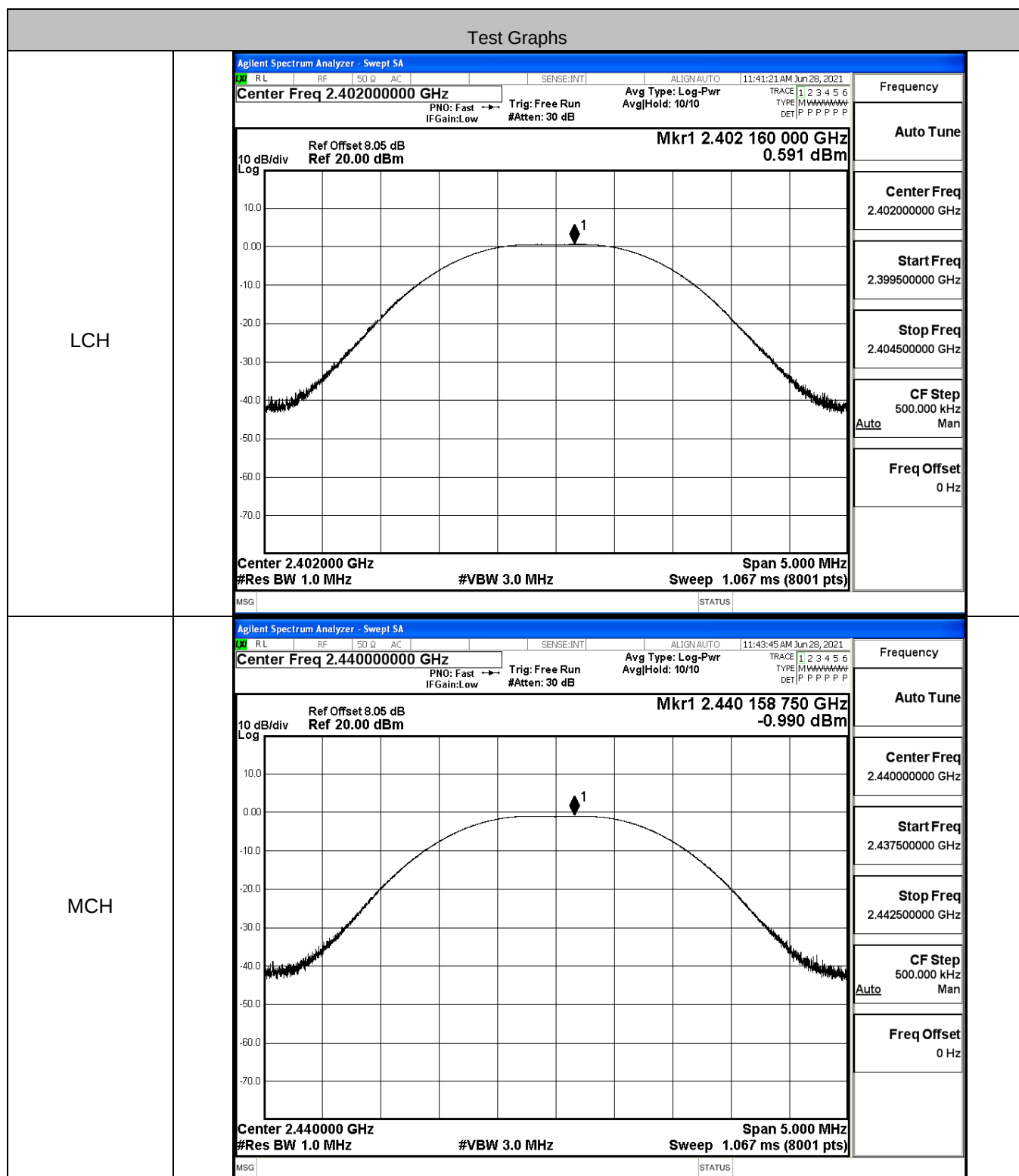
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS





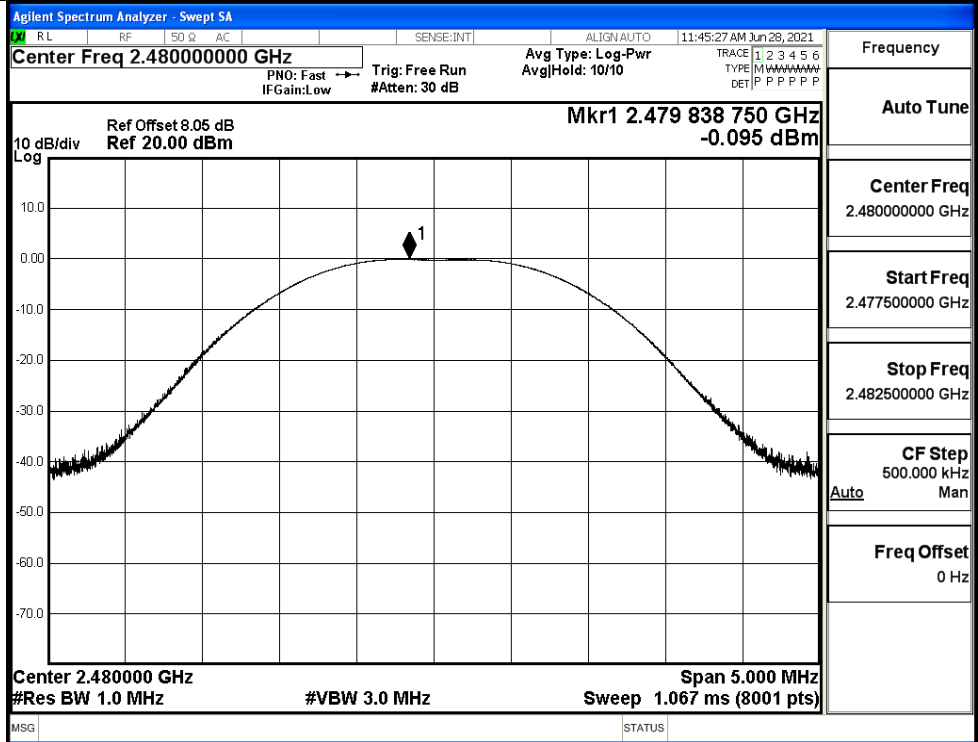
A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.591	30	PASS
BT LE	MCH	-0.99	30	PASS
BT LE	HCH	-0.095	30	PASS





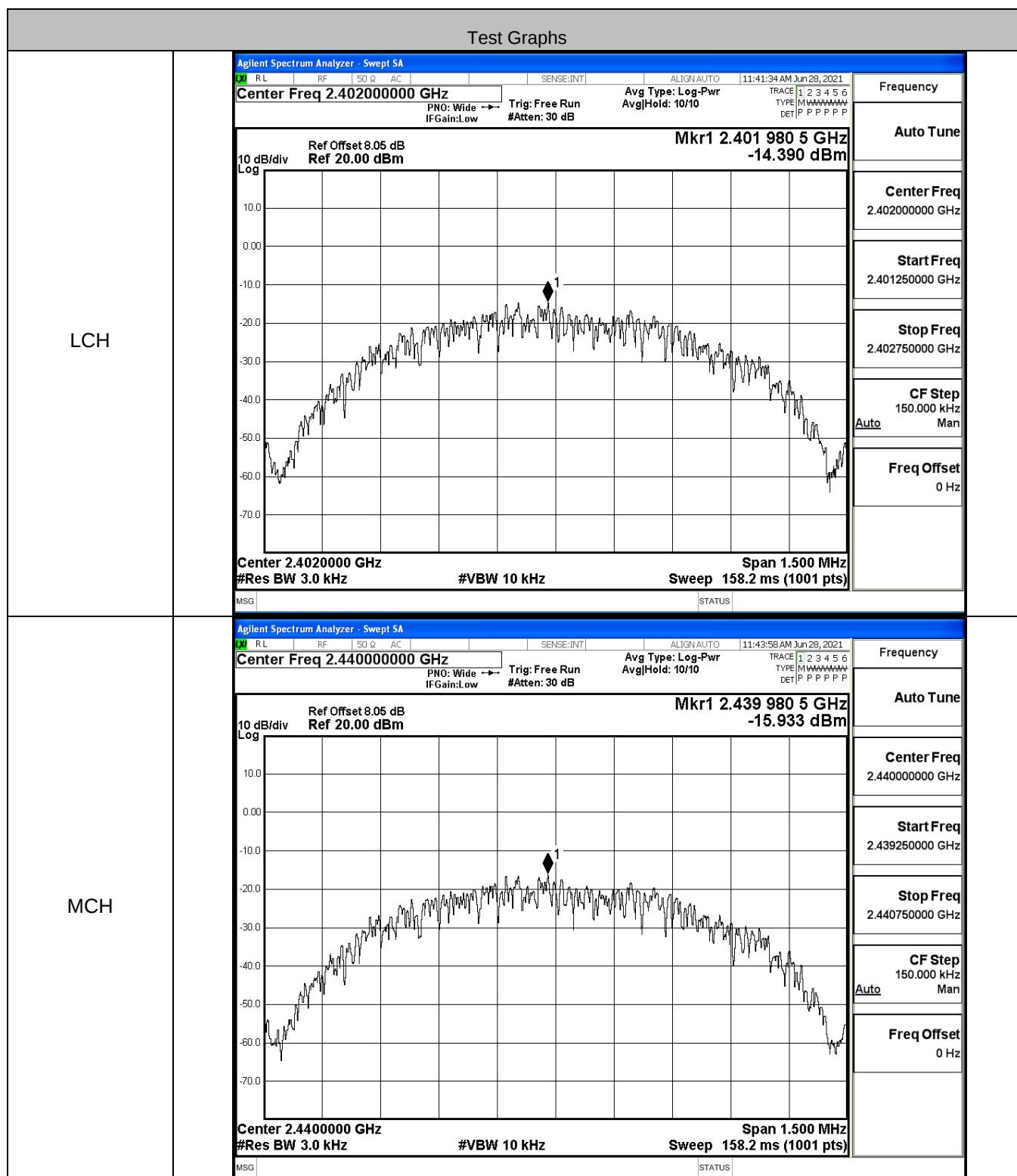
HCH

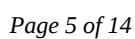




A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.390	8	PASS
BT LE	MCH	-15.933	8	PASS
BT LE	HCH	-15.163	8	PASS





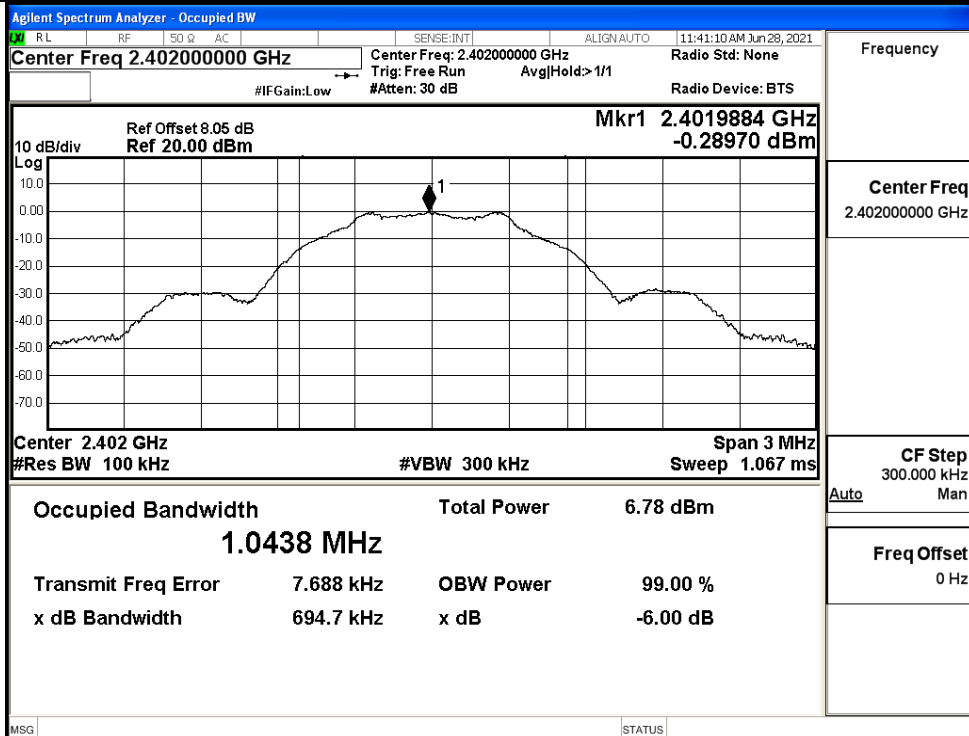


A.4 6dB Bandwidth

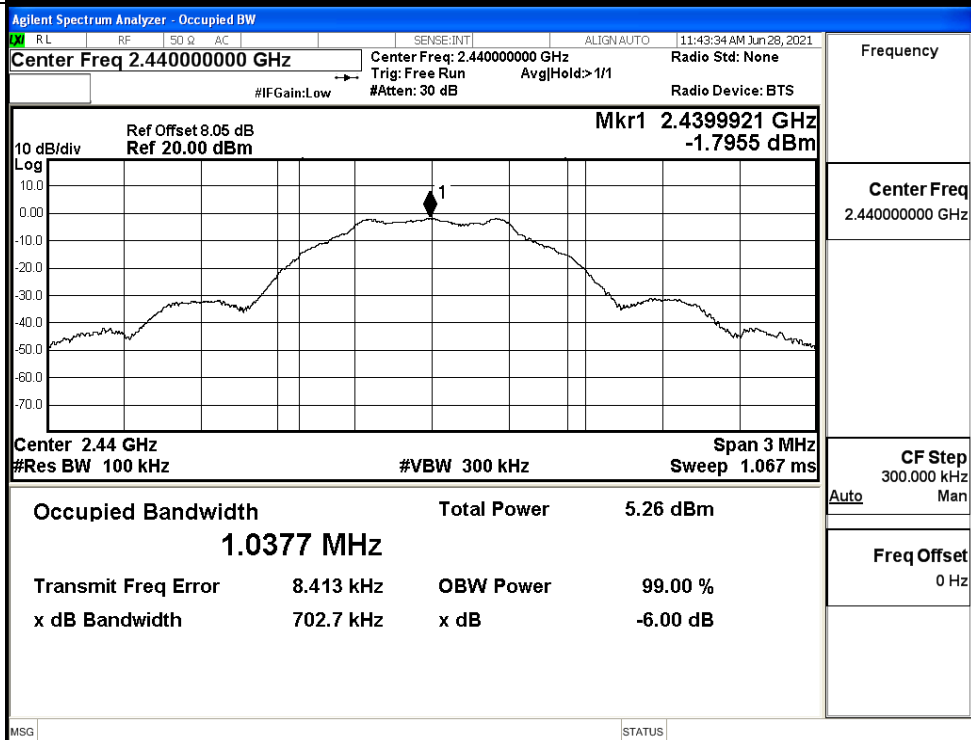
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6947	≥ 0.5	PASS
BT LE	MCH	0.7027	≥ 0.5	PASS
BT LE	HCH	0.7042	≥ 0.5	PASS

Test Graphs

LCH

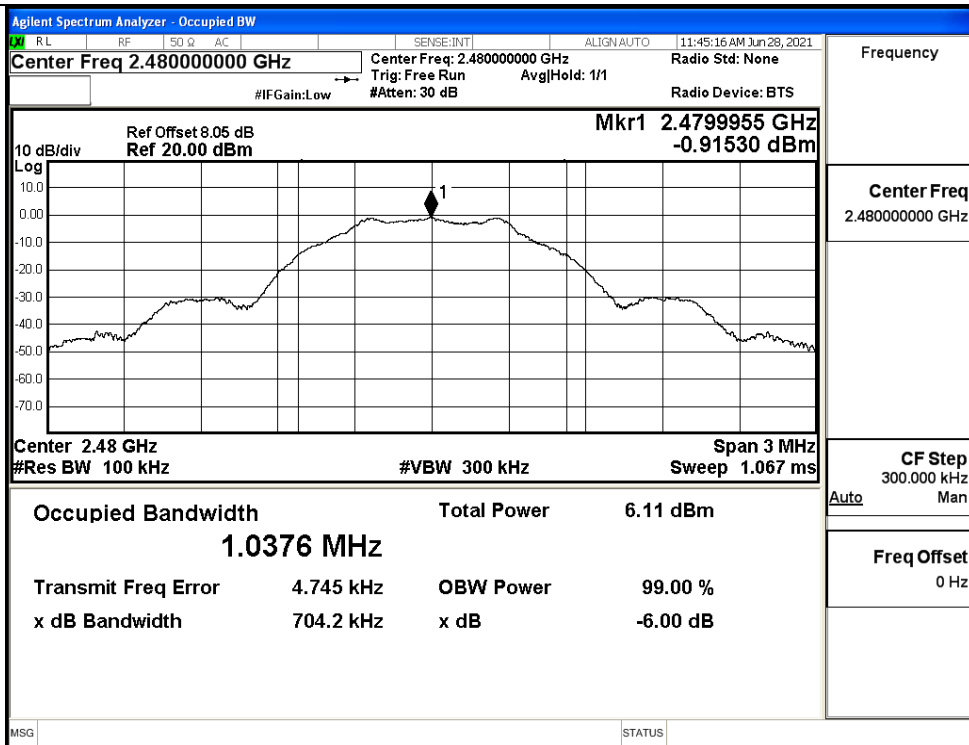


MCH





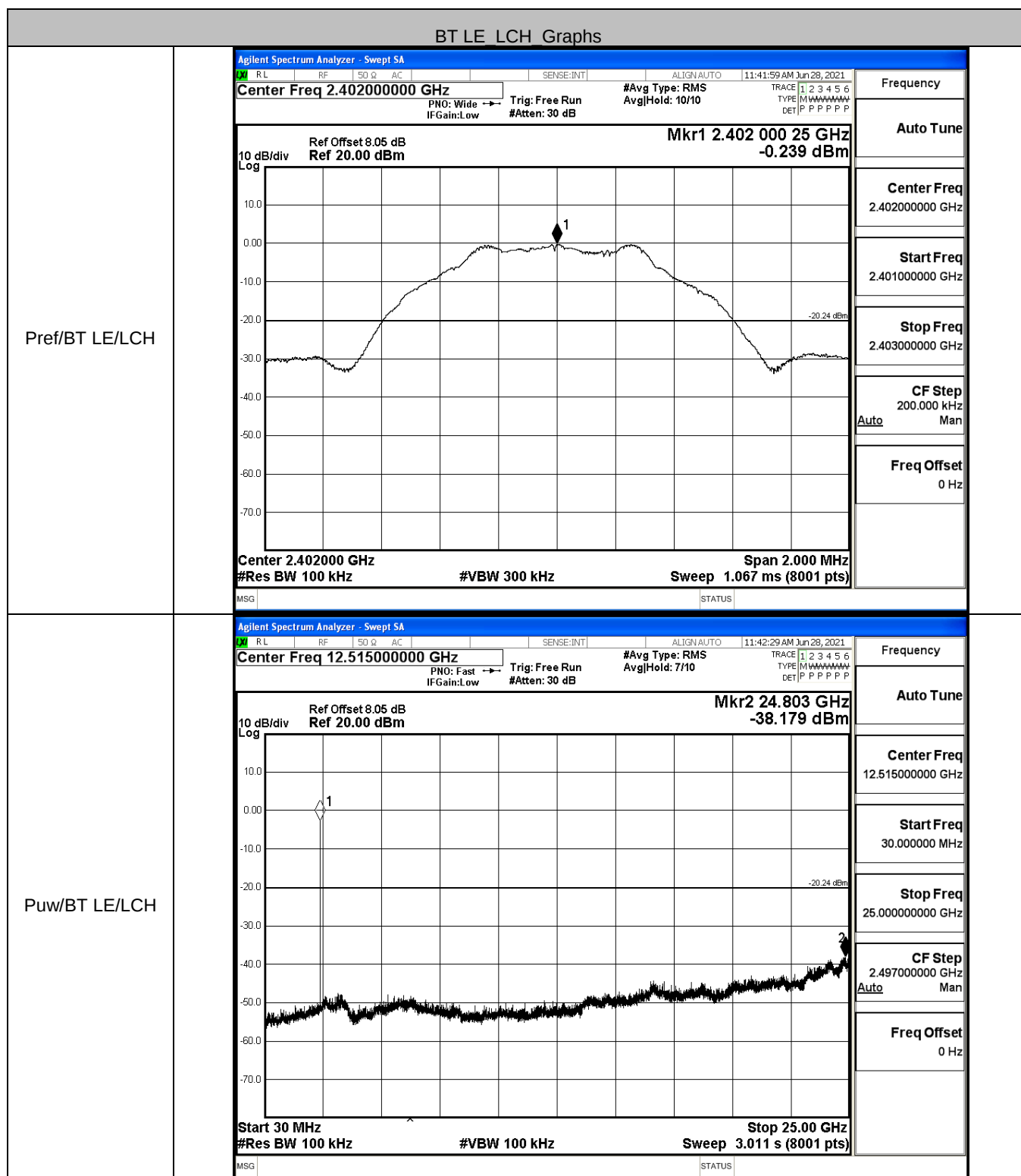
HCH





A.5 RF Conducted Spurious Emissions

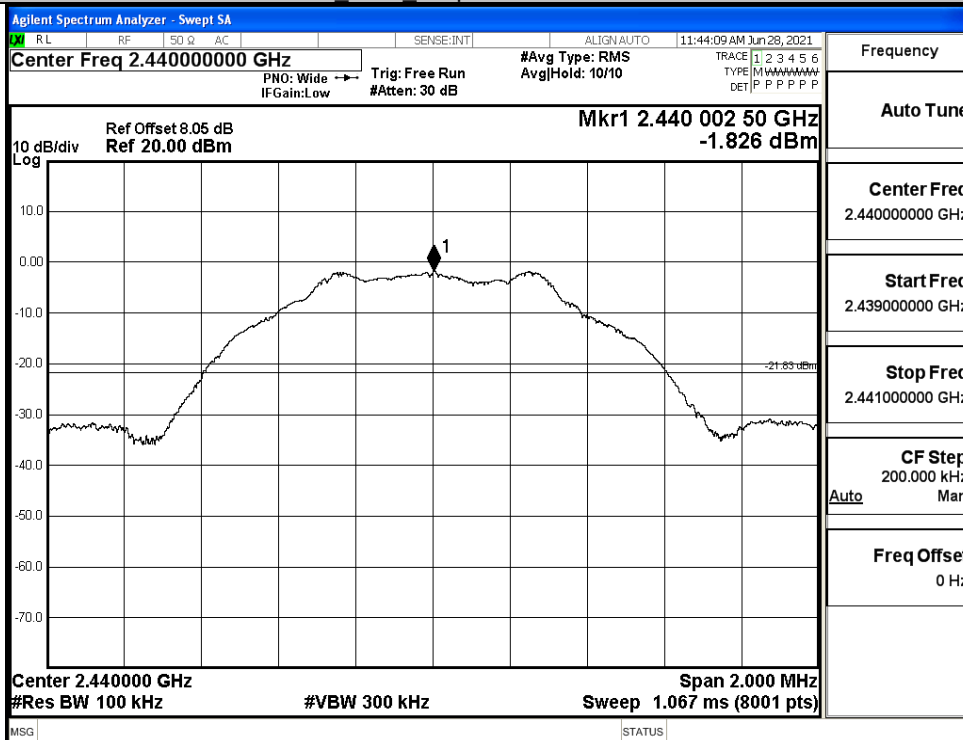
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.239	-38.179	-20.239	PASS
BT LE	MCH	-1.826	-38.256	-21.826	PASS
BT LE	HCH	-0.914	-38.219	-20.914	PASS



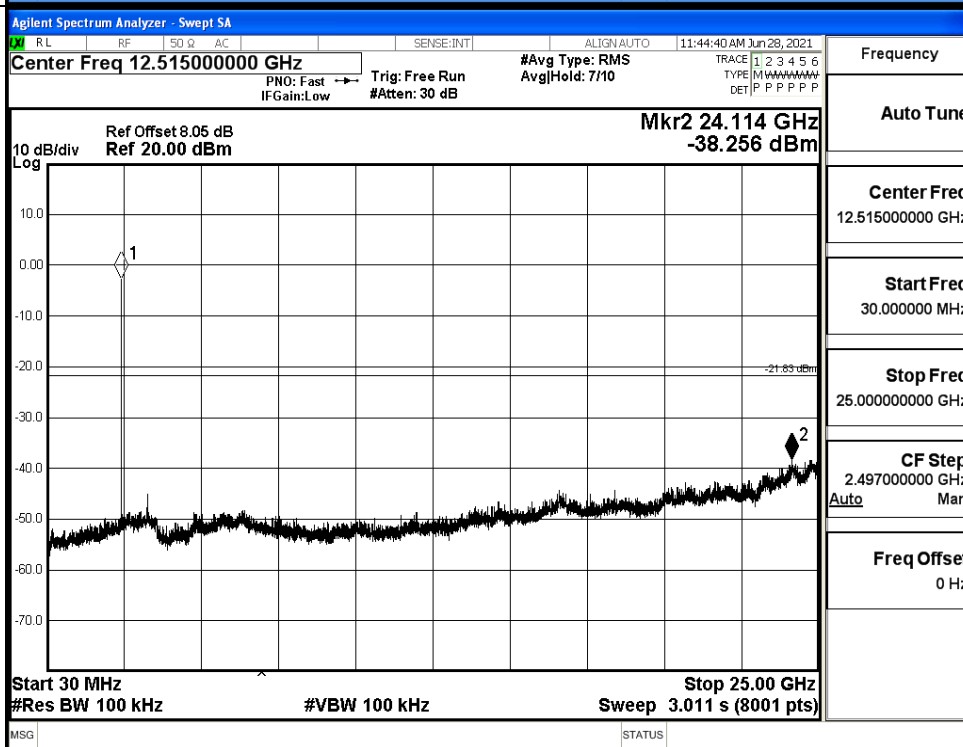


BT LE MCH Graphs

Pref/BT LE/MCH



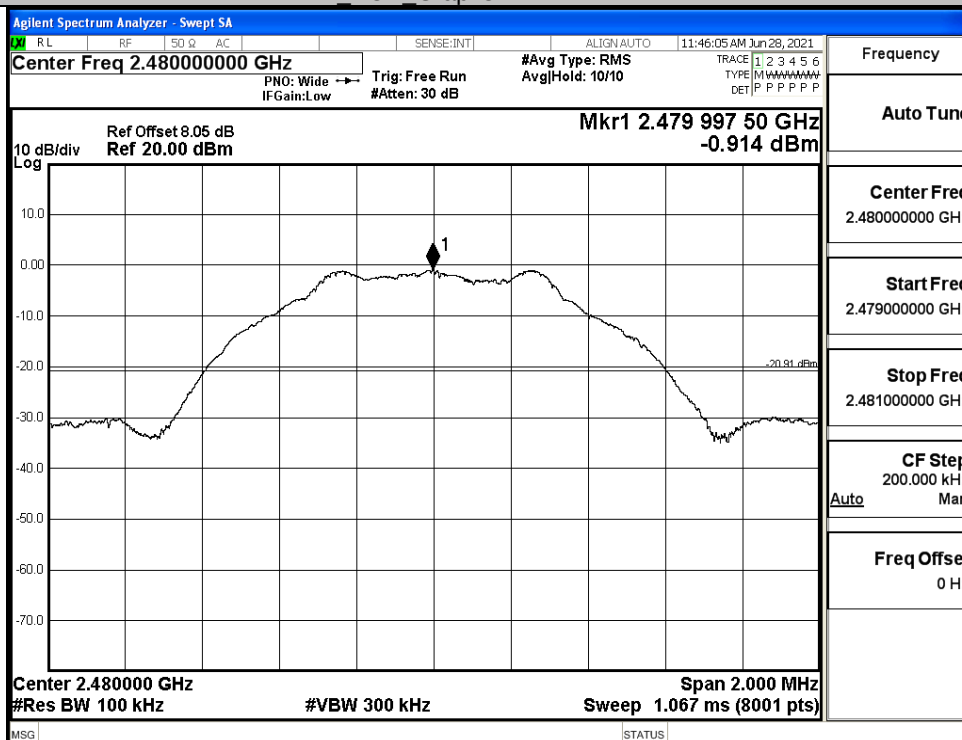
Puw/BT LE/MCH



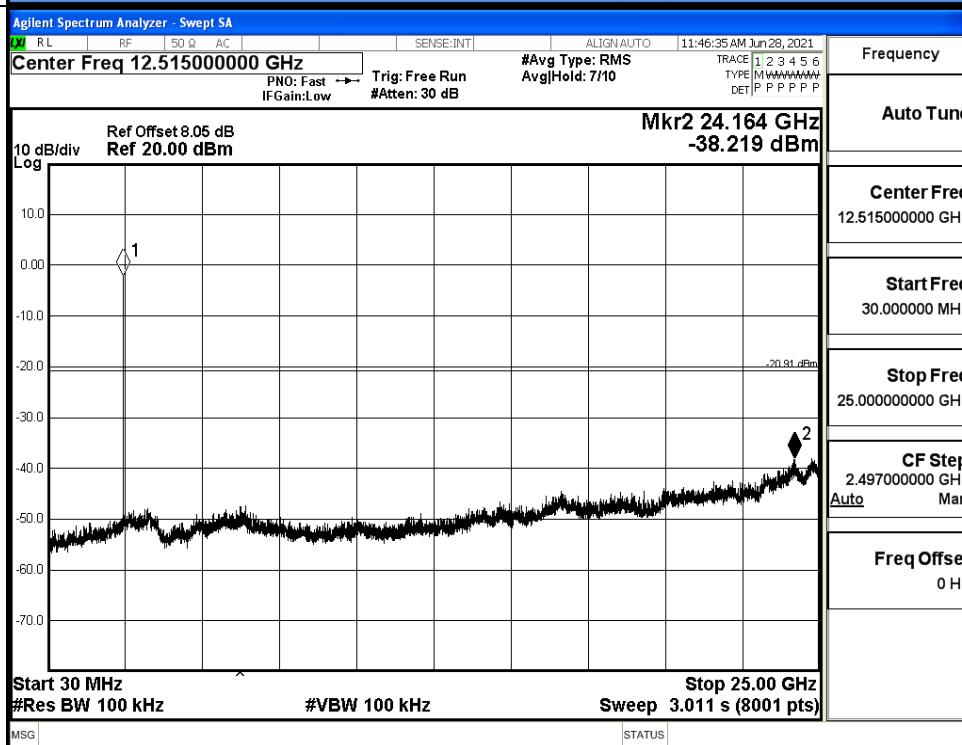


BT LE HCH Graphs

Pref/BT LE/HCH



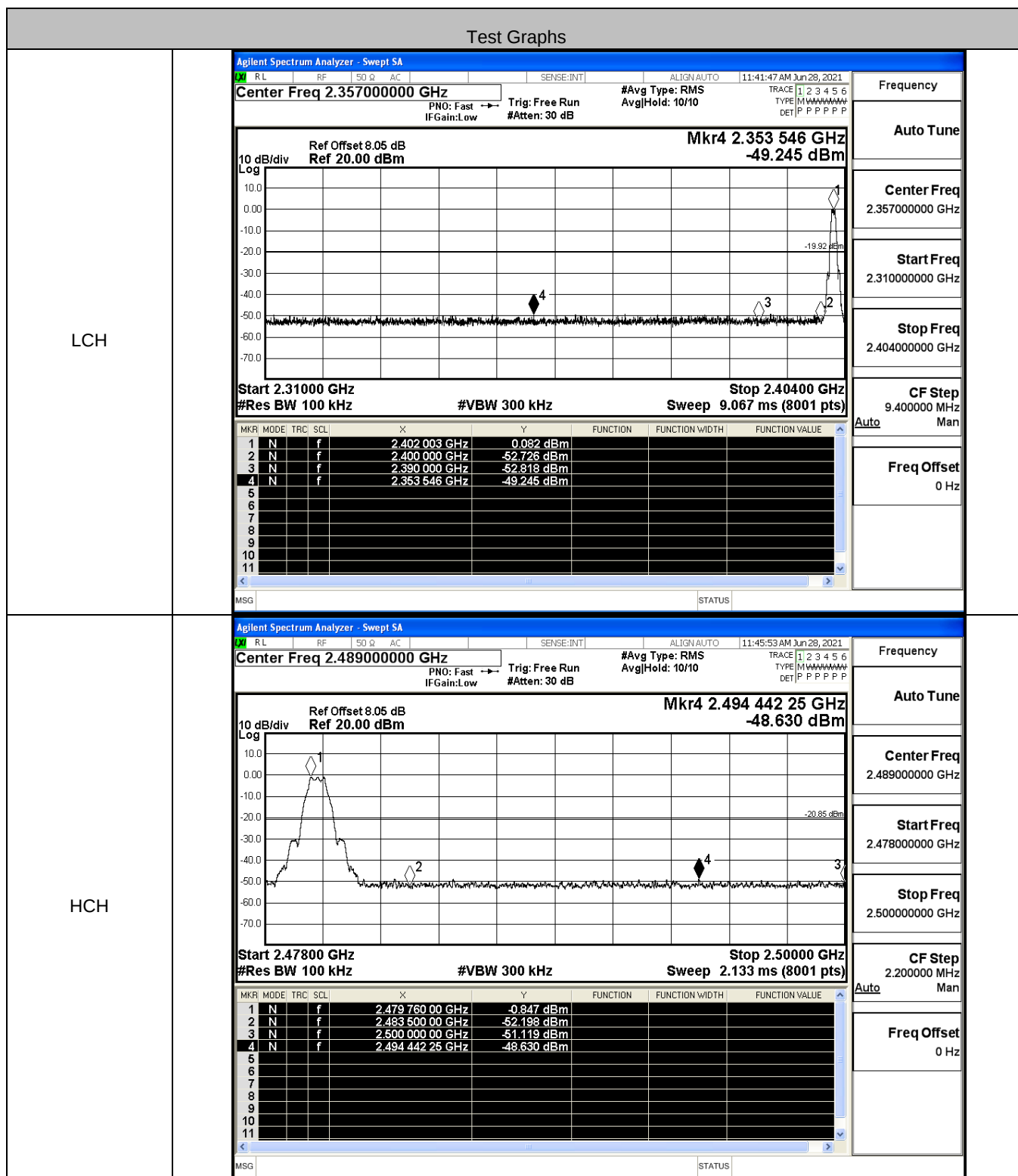
Puw/BT LE/HCH





A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.082	-49.245	-19.92	PASS
BT LE	HCH	-0.847	-48.630	-20.85	PASS



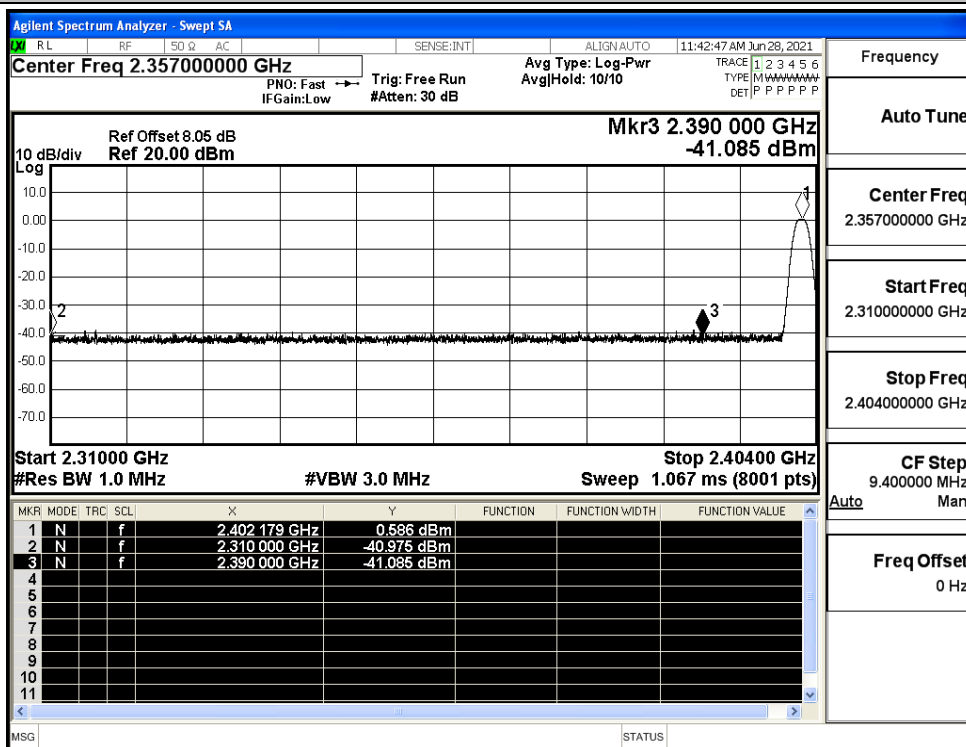


A.7 Restrict-band band-edge measurements

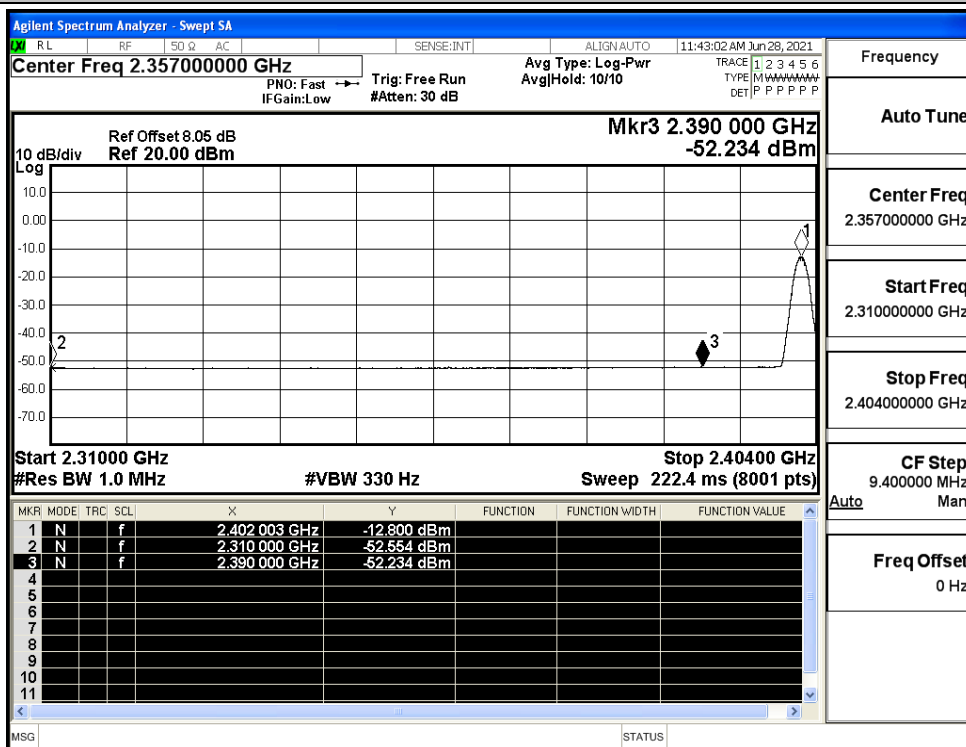
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-40.98	2.0	0	56.25	PEAK	74	PASS
		Ant1	2310.0	-52.55	2.0	0	44.68	AV	54	PASS
		Ant1	2390.0	-41.09	2.0	0	56.14	PEAK	74	PASS
		Ant1	2390.0	-52.23	2.0	0	45.00	AV	54	PASS
	2480	Ant1	2483.5	-41.13	2.0	0	56.10	PEAK	74	PASS
		Ant1	2483.5	-51.91	2.0	0	45.32	AV	54	PASS
		Ant1	2500.0	-40.65	2.0	0	56.58	PEAK	74	PASS
		Ant1	2500.0	-51.60	2.0	0	45.63	AV	54	PASS



Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK

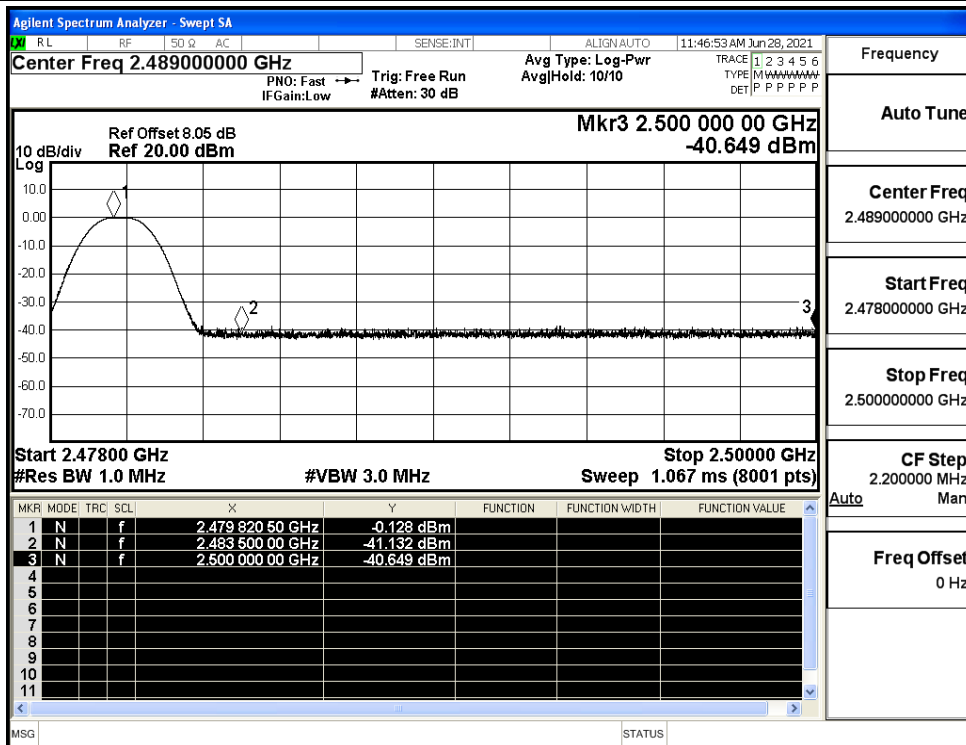


Restrict-band band-edge measurements_BT LE_2402_Ant1_AV





Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

