

Appendix A

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

Product Name: Starlink OnBatt 4G cat1 SF iRF

Trade Mark: Starlink

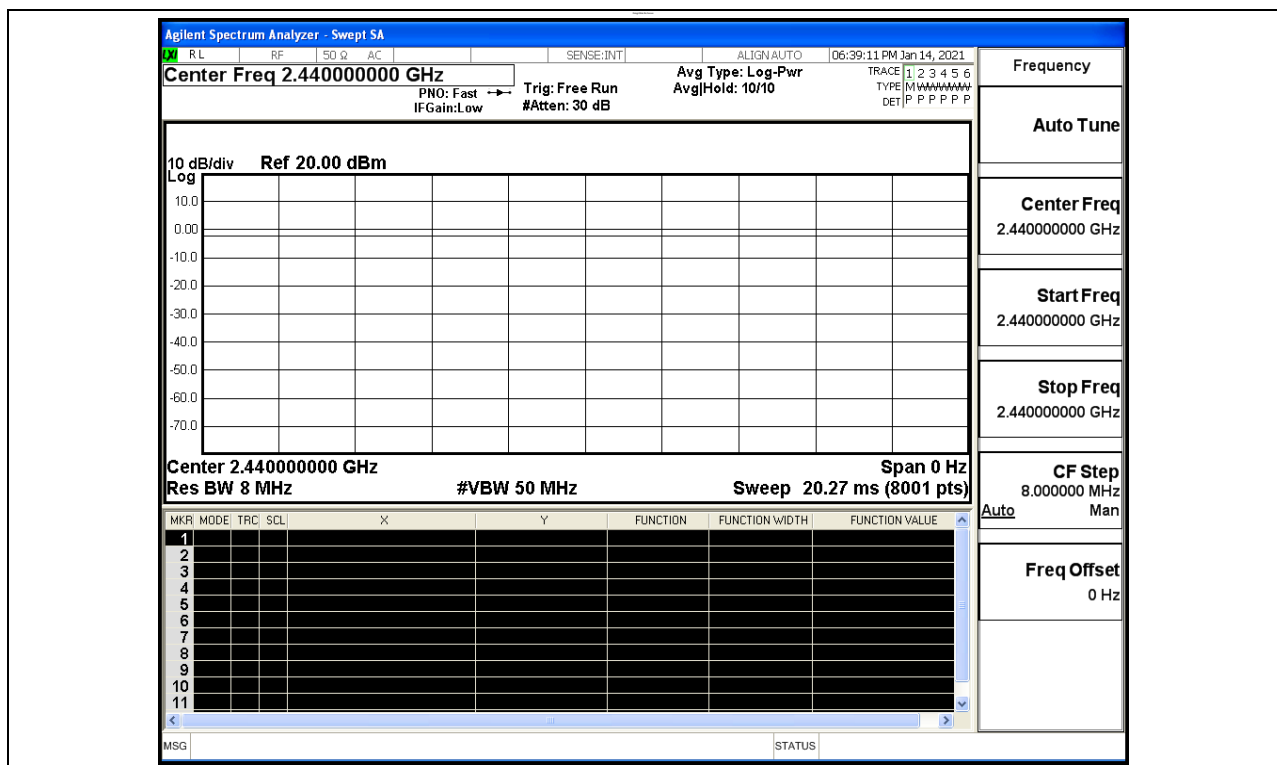
Test Model: Starlink OnBatt 4G cat1 SF iRF

Environmental Conditions

Temperature:	21.3°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

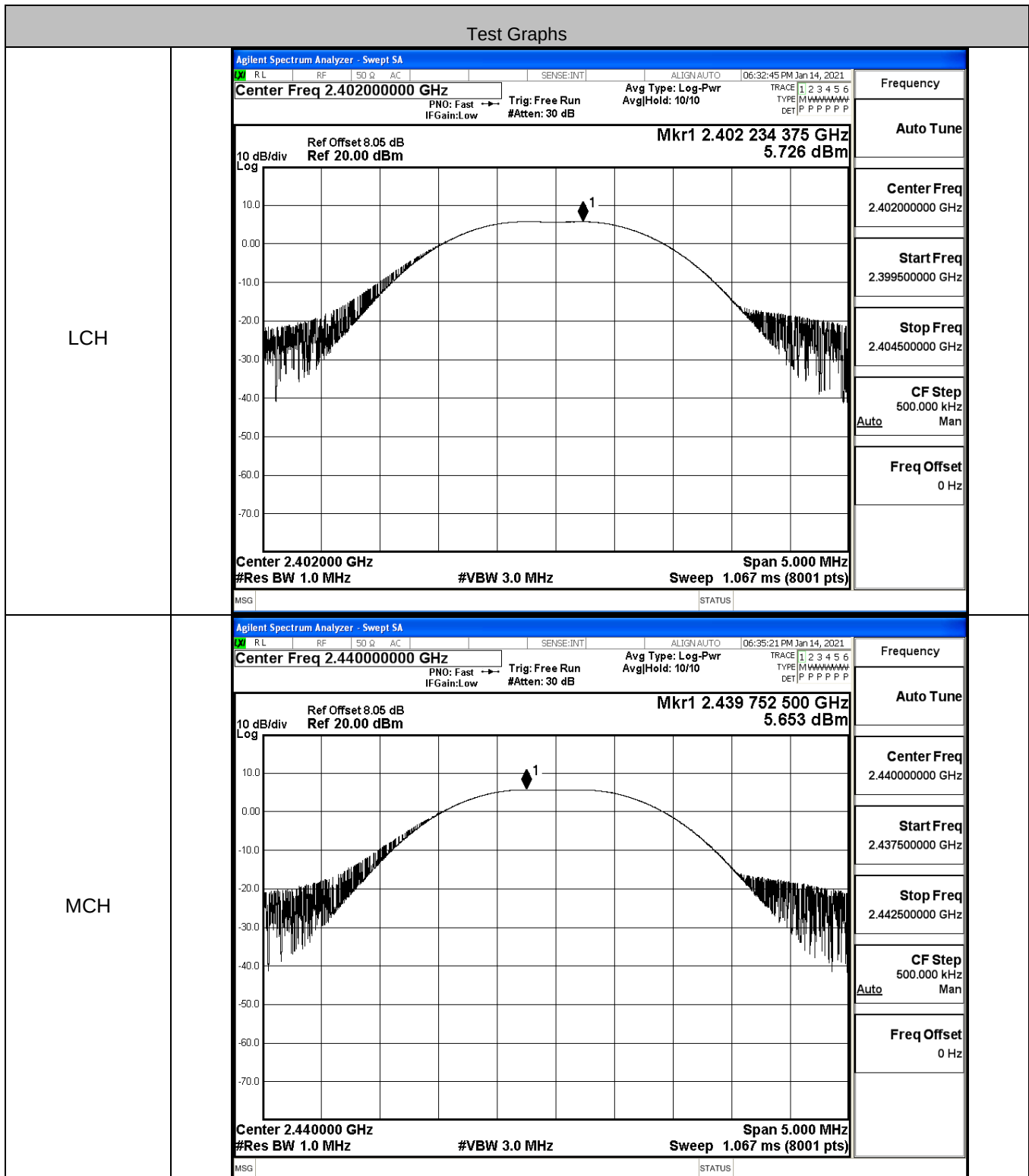
A.1 Duty Cycle

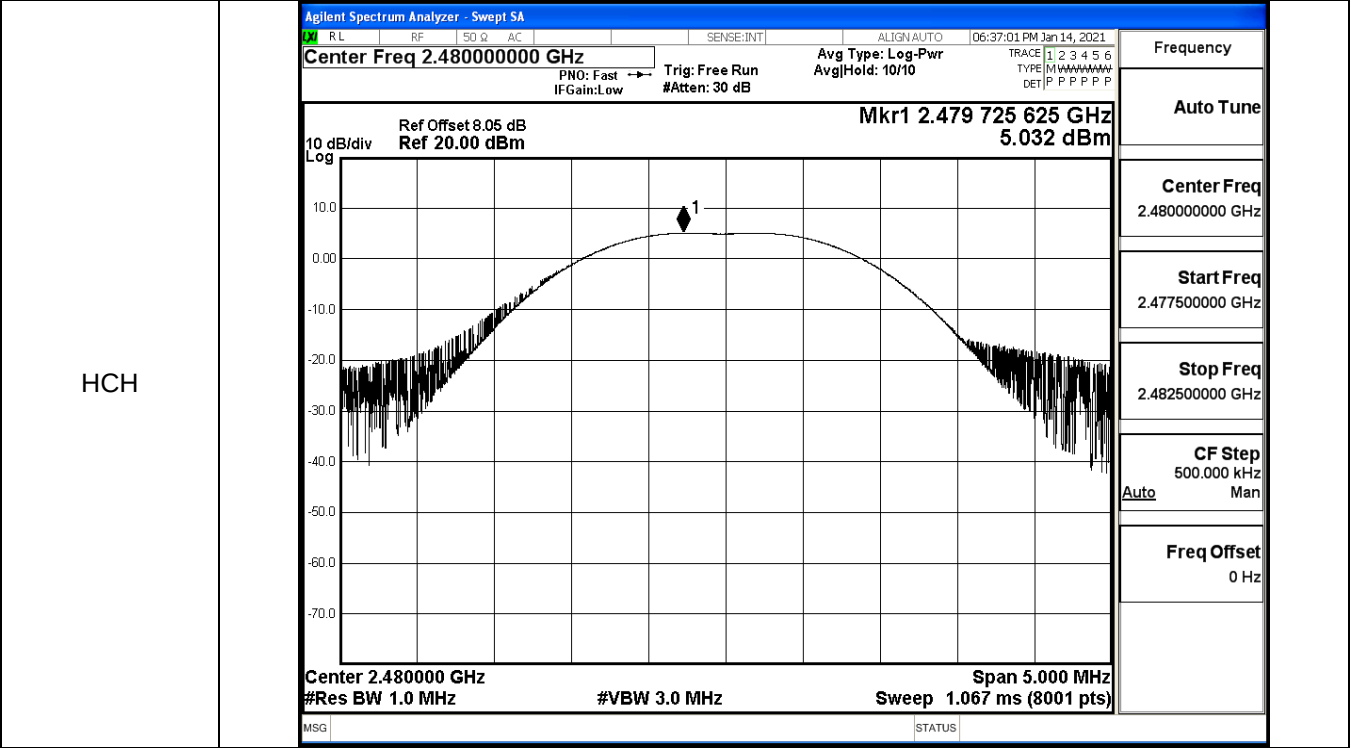
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.726	30	PASS
BT LE	MCH	5.653	30	PASS
BT LE	HCH	5.032	30	PASS



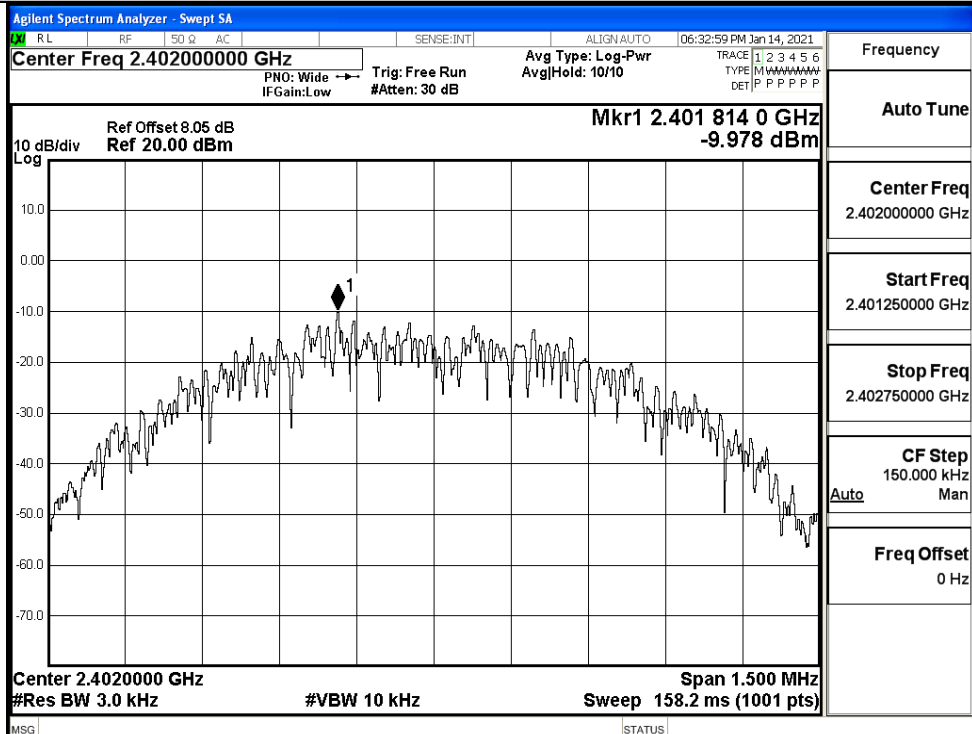


A.3 Maximum Power Spectral Density

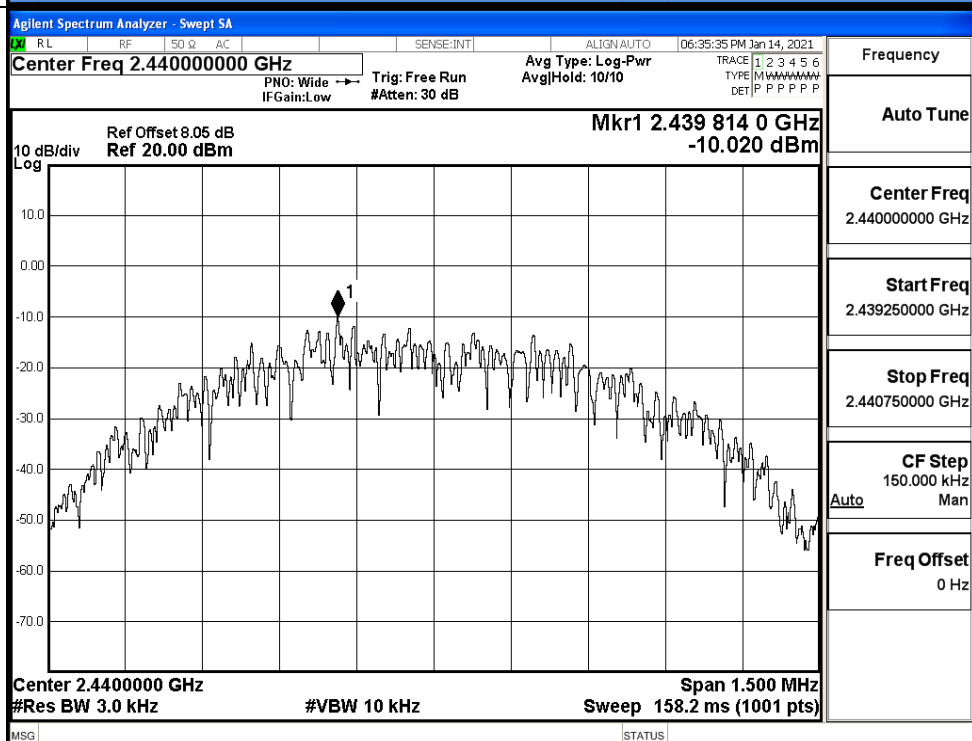
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-9.978	8	PASS
BT LE	MCH	-10.020	8	PASS
BT LE	HCH	-10.554	8	PASS

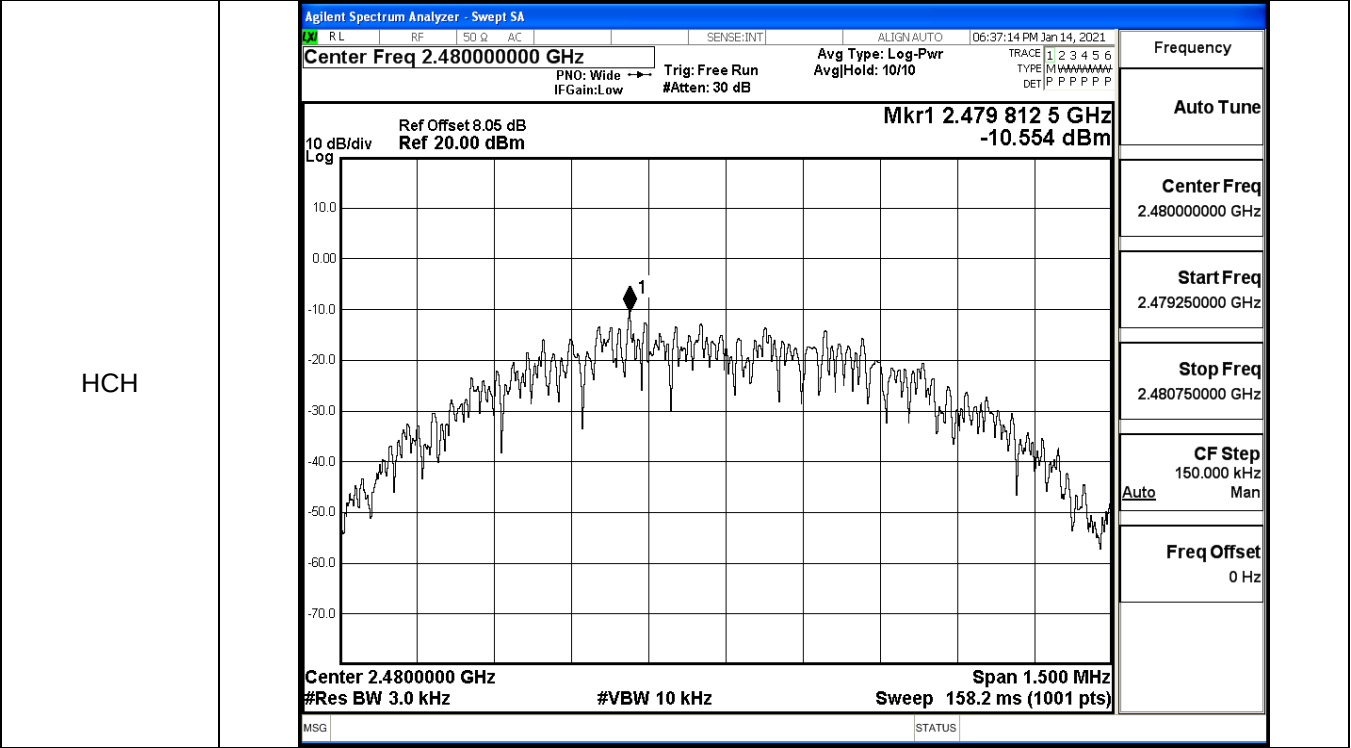
Test Graphs

LCH



MCH



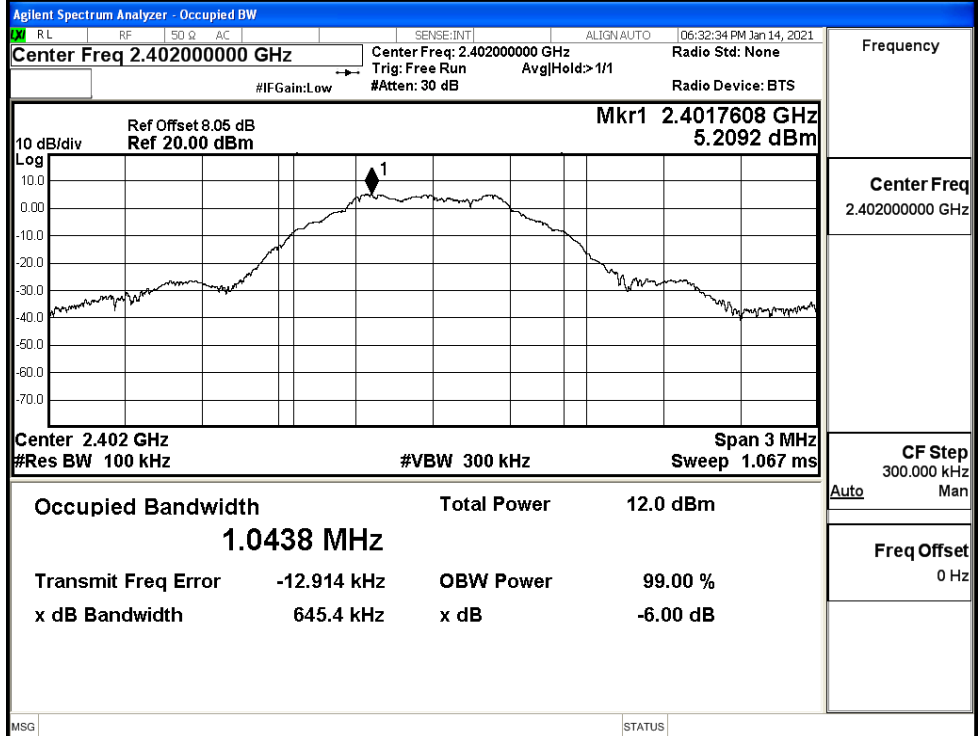


A.4 6dB Bandwidth

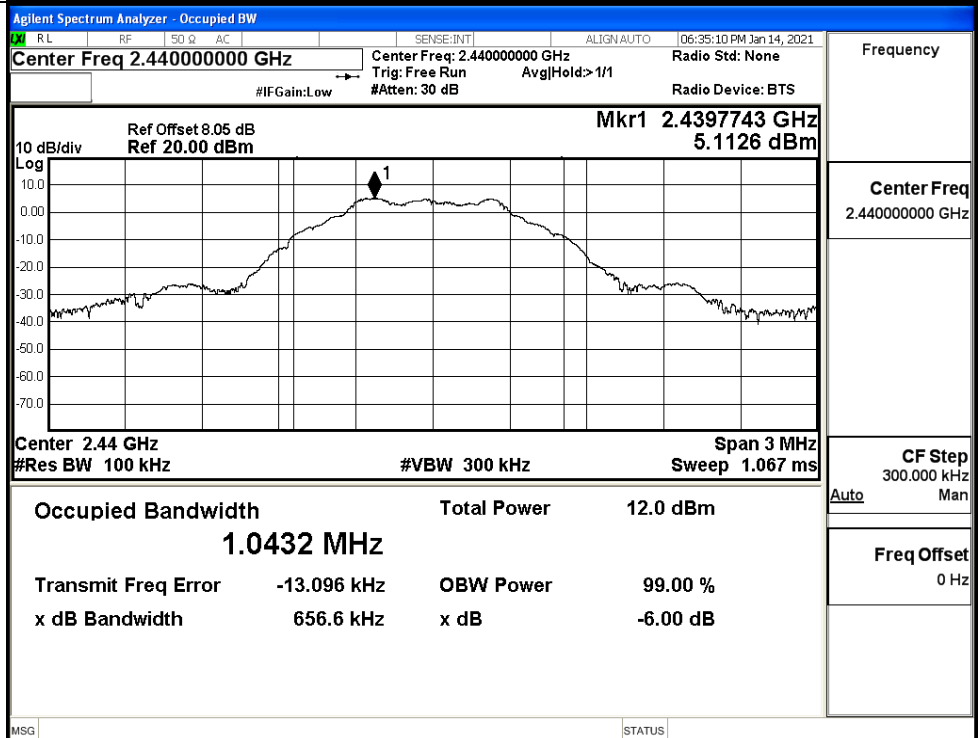
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6454	≥ 0.5	PASS
BT LE	MCH	0.6566	≥ 0.5	PASS
BT LE	HCH	0.6866	≥ 0.5	PASS

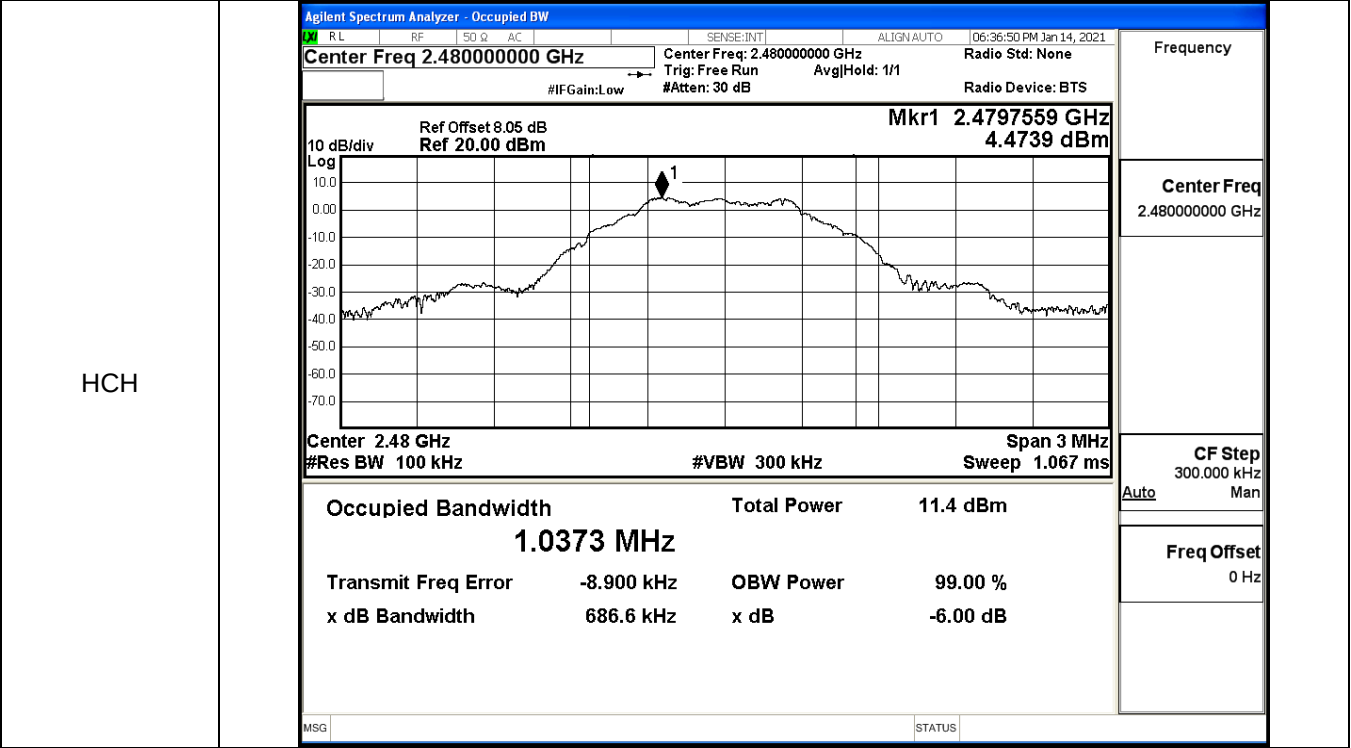
Test Graphs

LCH



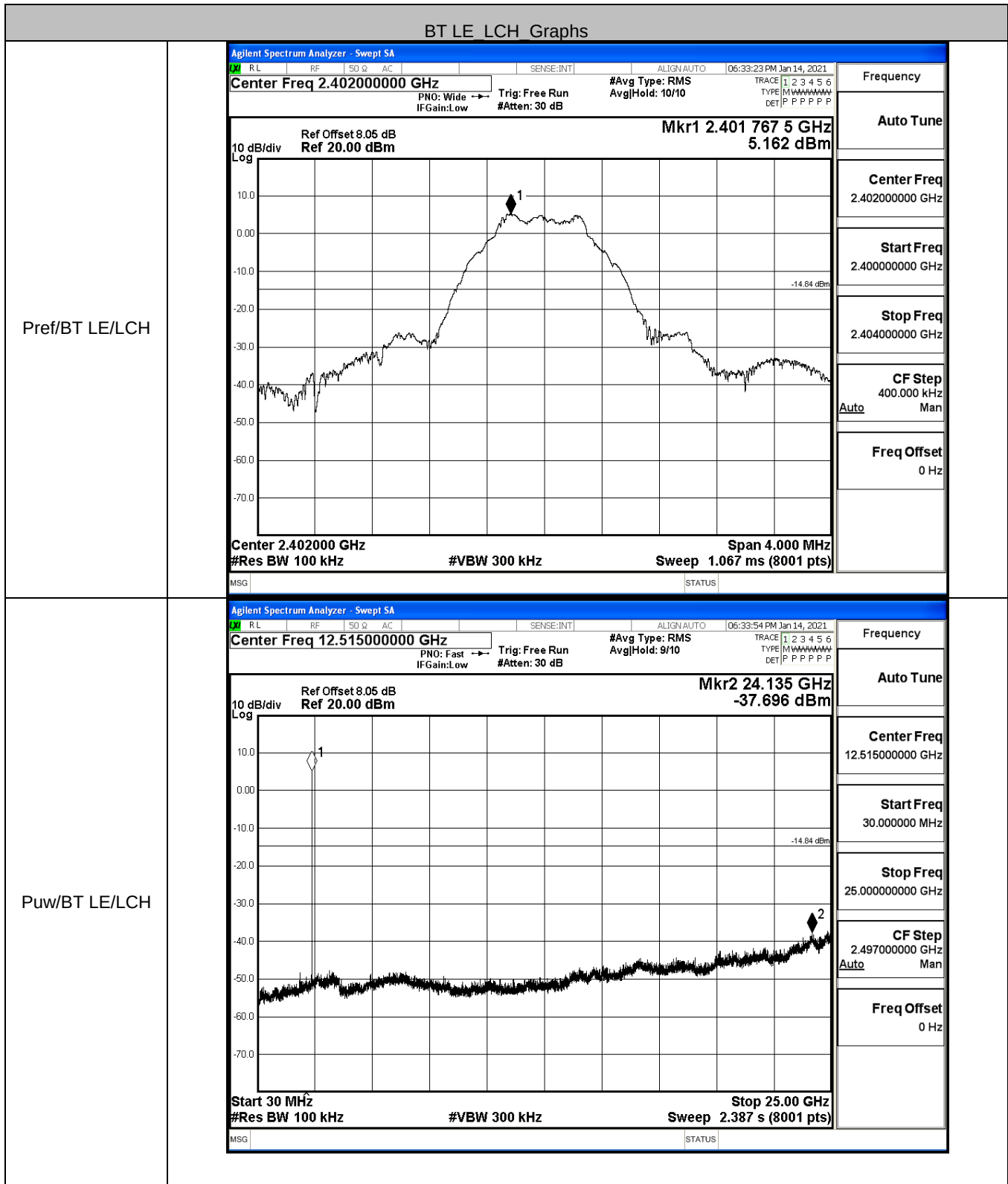
MCH





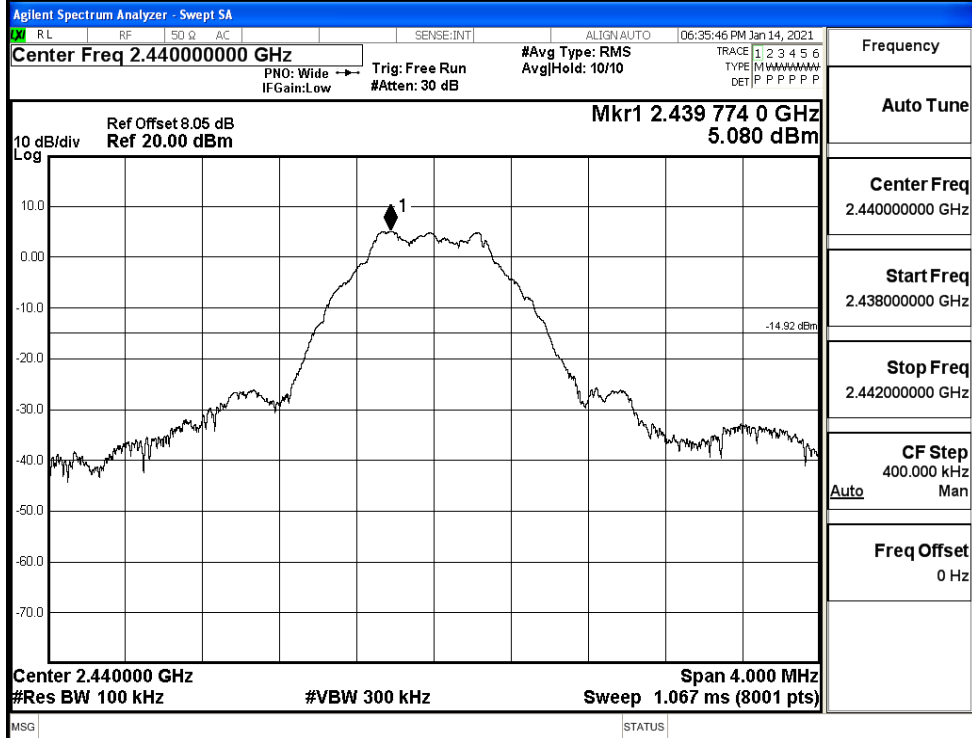
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.162	-37.696	-14.838	PASS
BT LE	MCH	5.08	-37.330	-14.920	PASS
BT LE	HCH	4.484	-37.411	-15.516	PASS

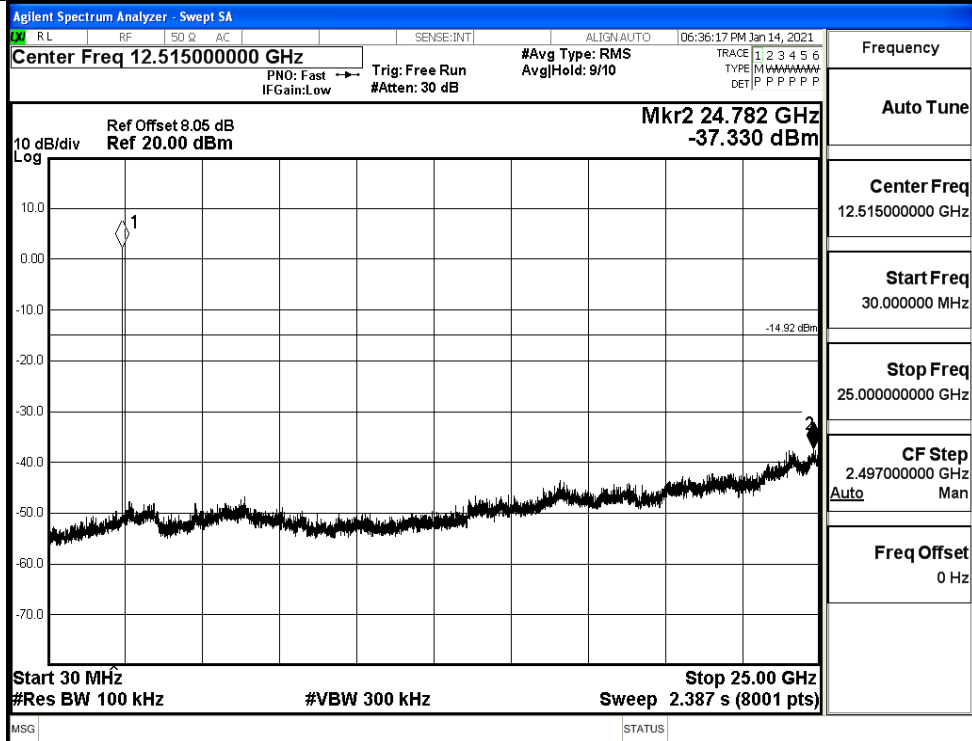


BT LE MCH Graphs

Pref/BT LE/MCH

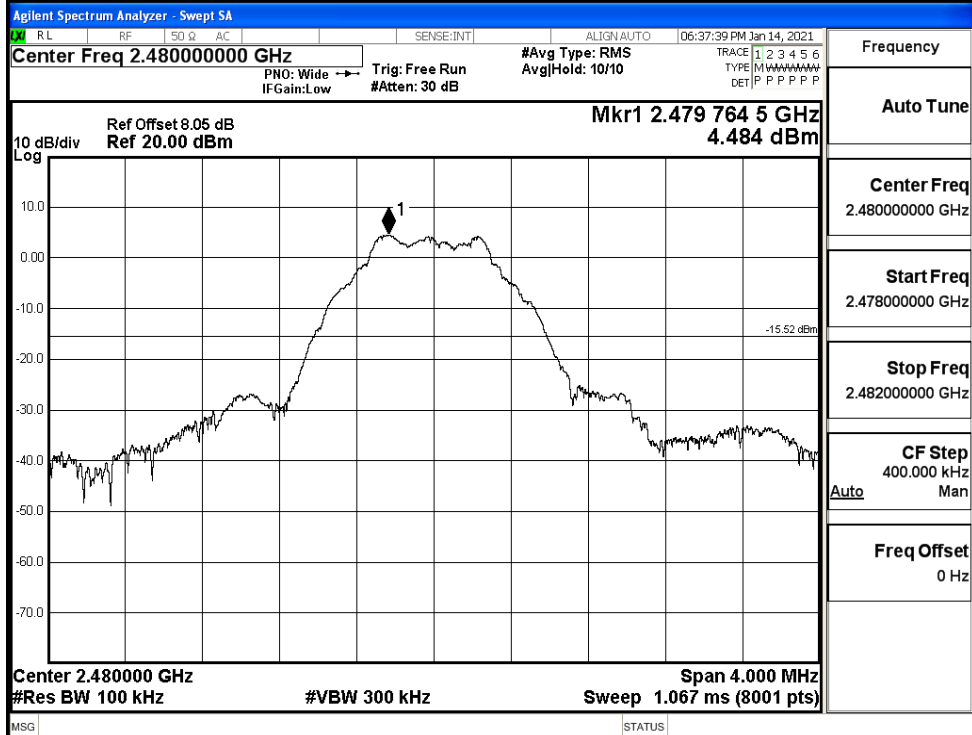


Puw/BT LE/MCH

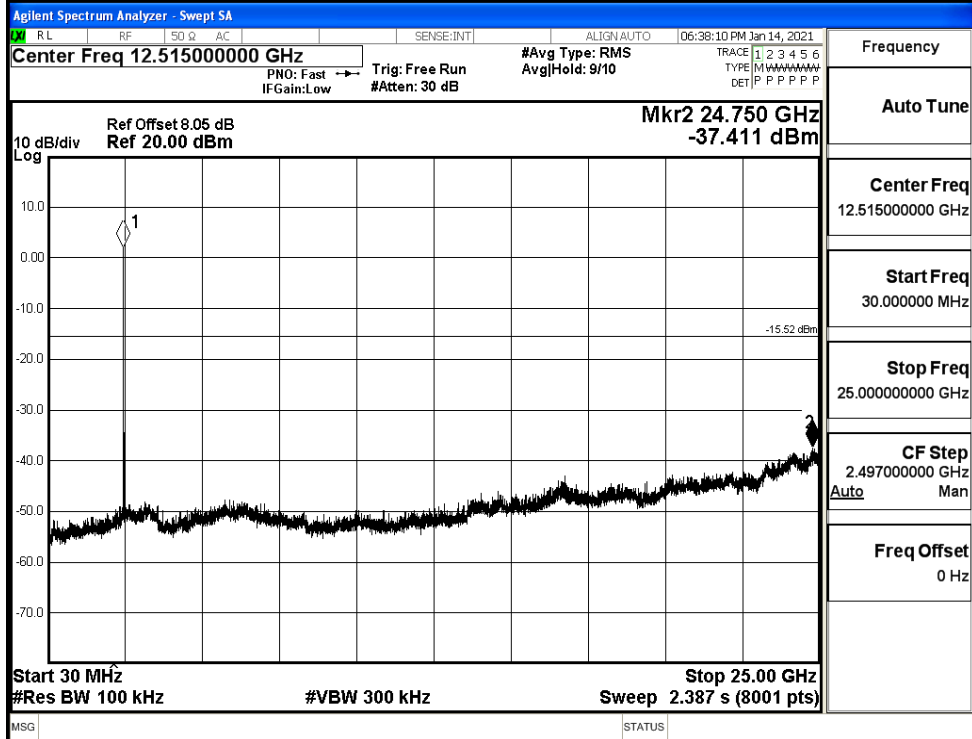


BT LE HCH Graphs

Pref/BT LE/HCH

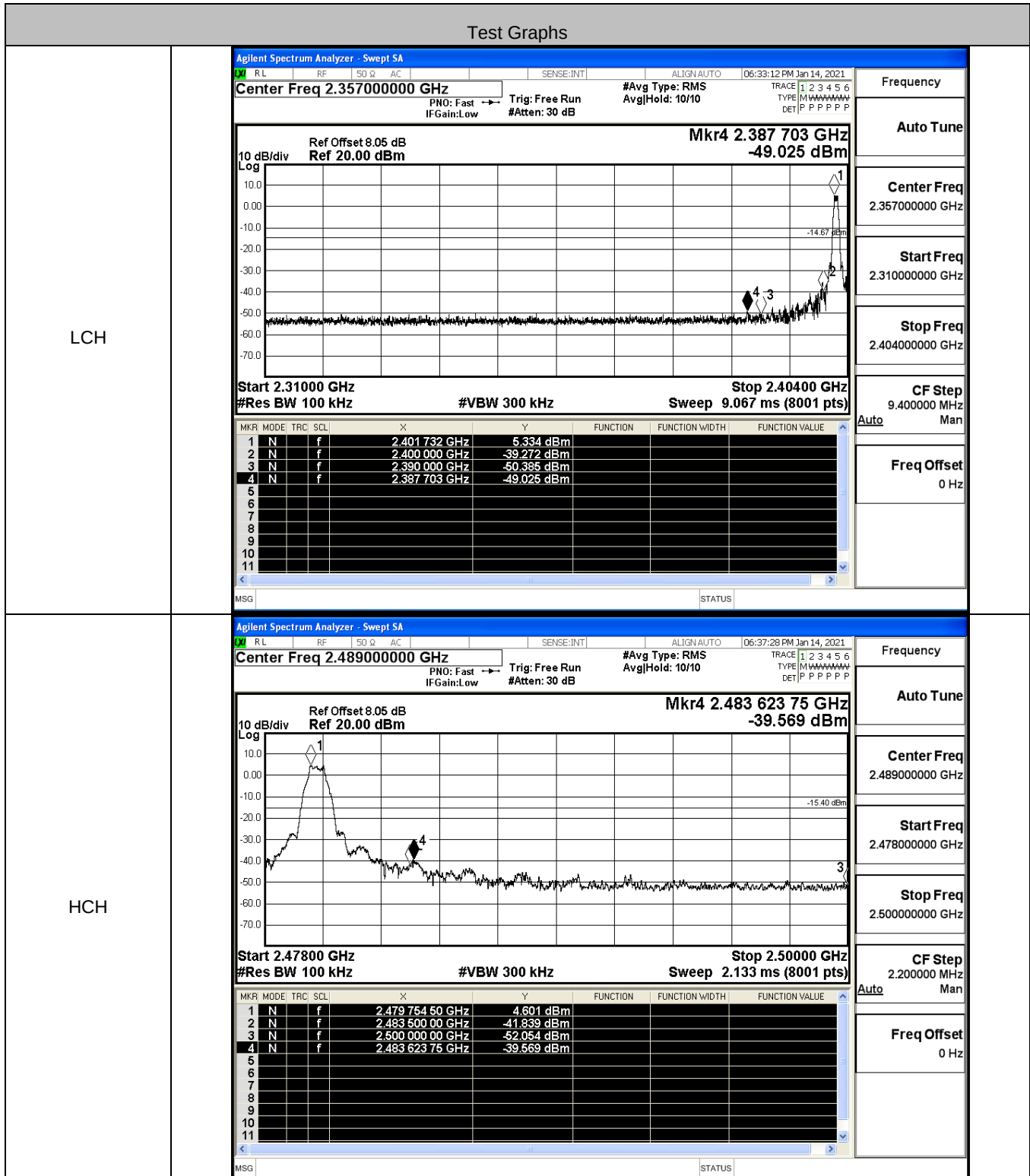


Puw/BT LE/HCH



A.6 Band-edge for RF Conducted Emissions

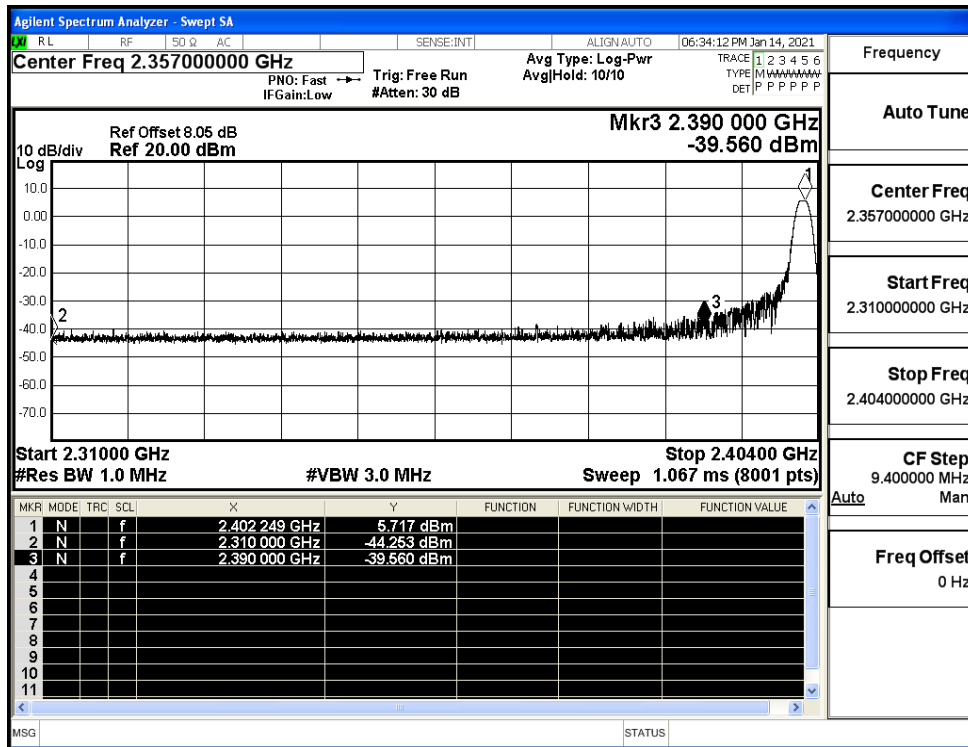
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.334	-49.025	-14.67	PASS
BT LE	HCH	4.601	-39.569	-15.4	PASS



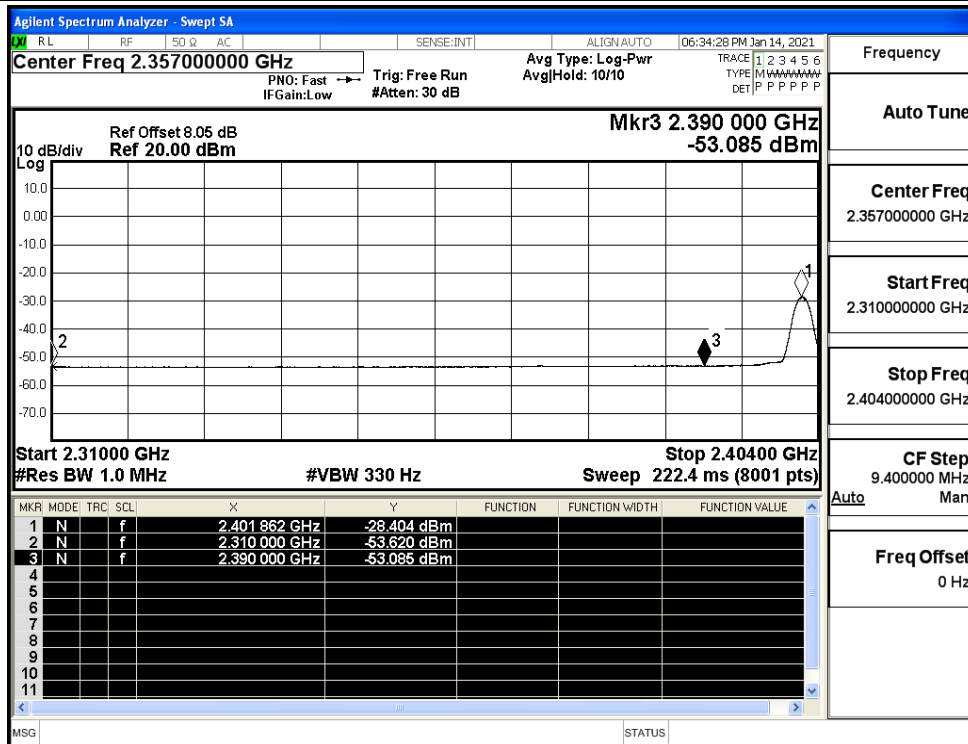
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	2310.0	-44.25	2.0	0	52.98	PEAK	74	PASS
		2310.0	-53.62	2.0	0	43.61	AV	54	PASS
		2390.0	-39.56	2.0	0	57.67	PEAK	74	PASS
		2390.0	-53.09	2.0	0	44.14	AV	54	PASS
	2480	2483.5	-24.77	2.0	0	72.46	PEAK	74	PASS
		2483.5	-51.81	2.0	0	45.42	AV	54	PASS
		2500.0	-40.31	2.0	0	56.92	PEAK	74	PASS
		2500.0	-52.56	2.0	0	44.67	AV	54	PASS

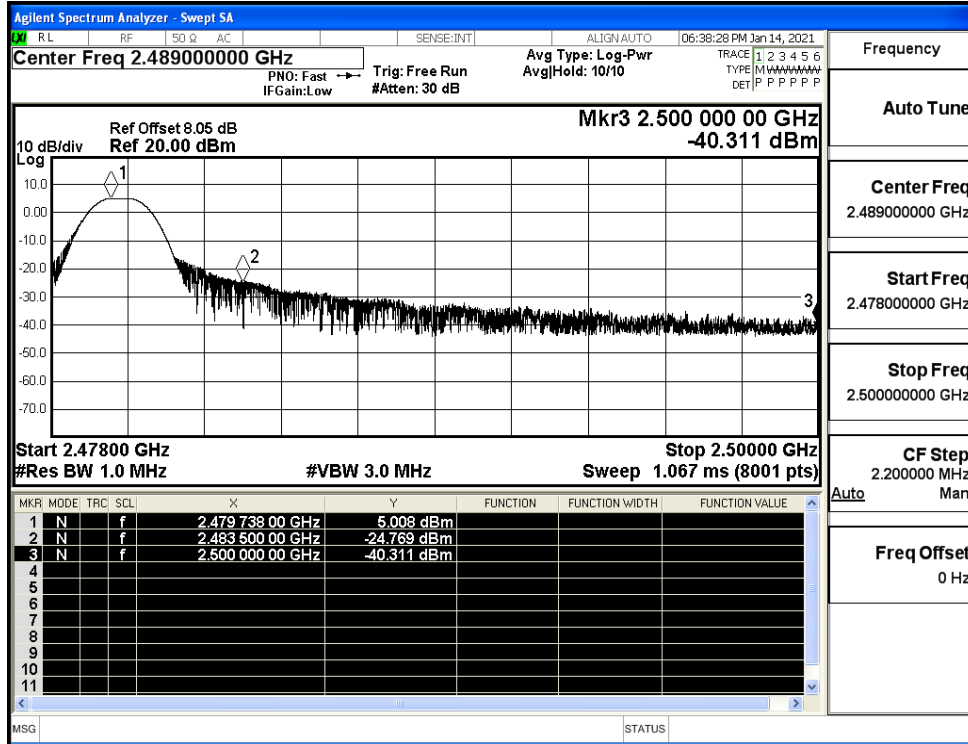
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

