

Appendix A

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

Product Name: Starlink Tracker 4G cat1 SF iRF

Trade Mark: Starlink

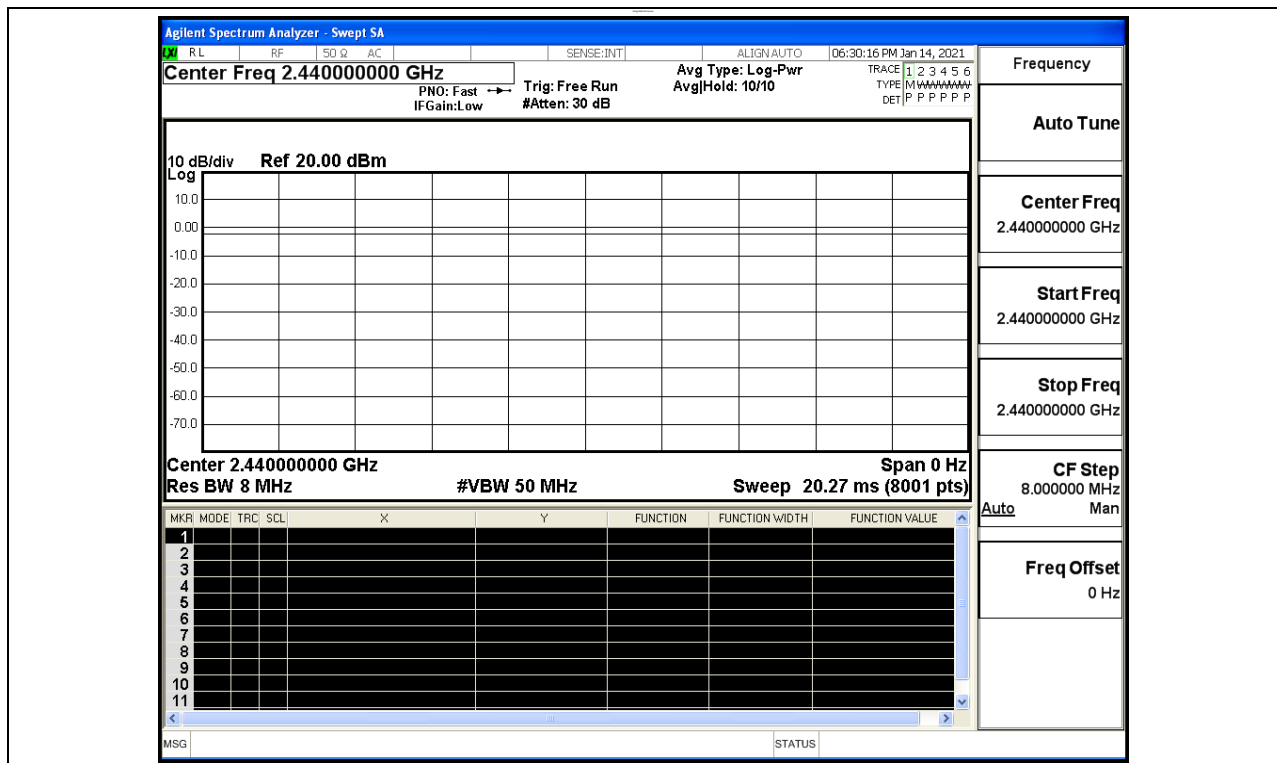
Test Model: Starlink Tracker 4G cat1 SF iRF

Environmental Conditions

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

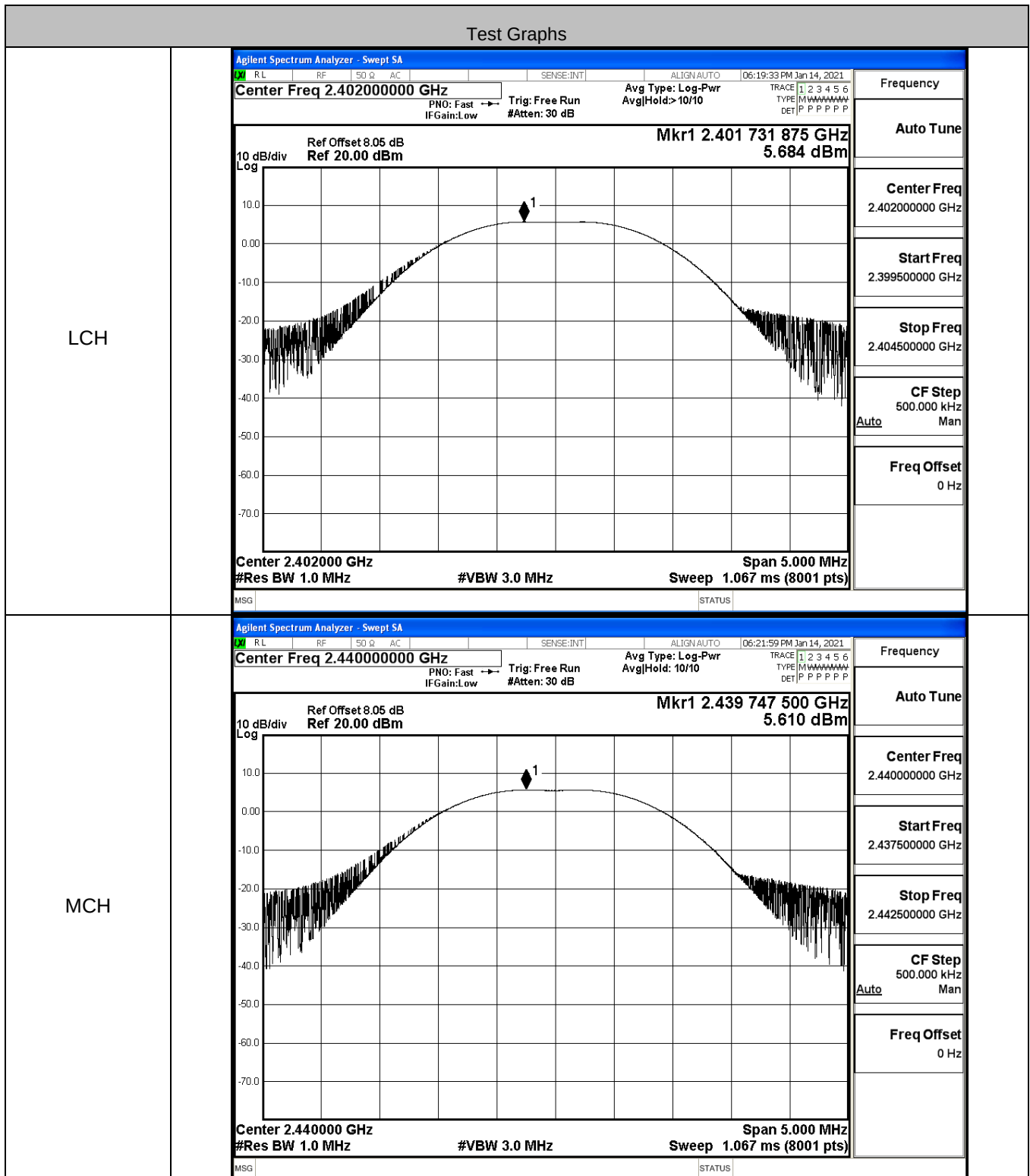
A.1 Duty Cycle

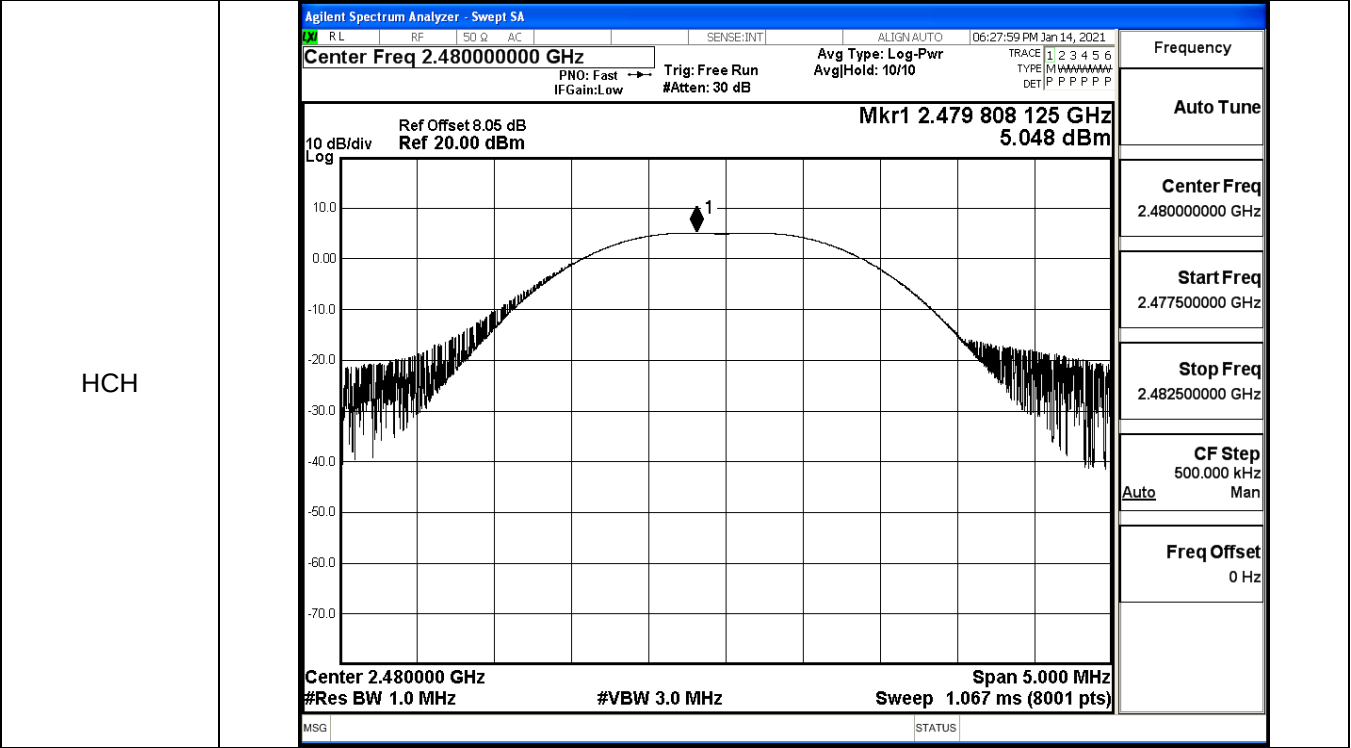
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.68	30	PASS
BT LE	MCH	5.61	30	PASS
BT LE	HCH	5.05	30	PASS



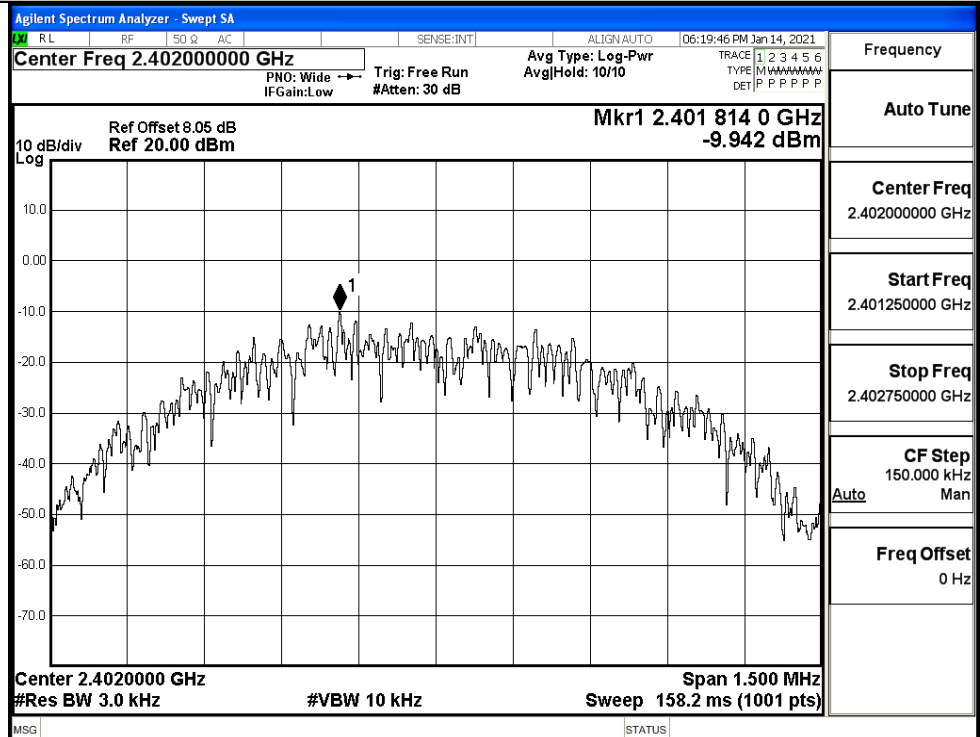


A.3 Maximum Power Spectral Density

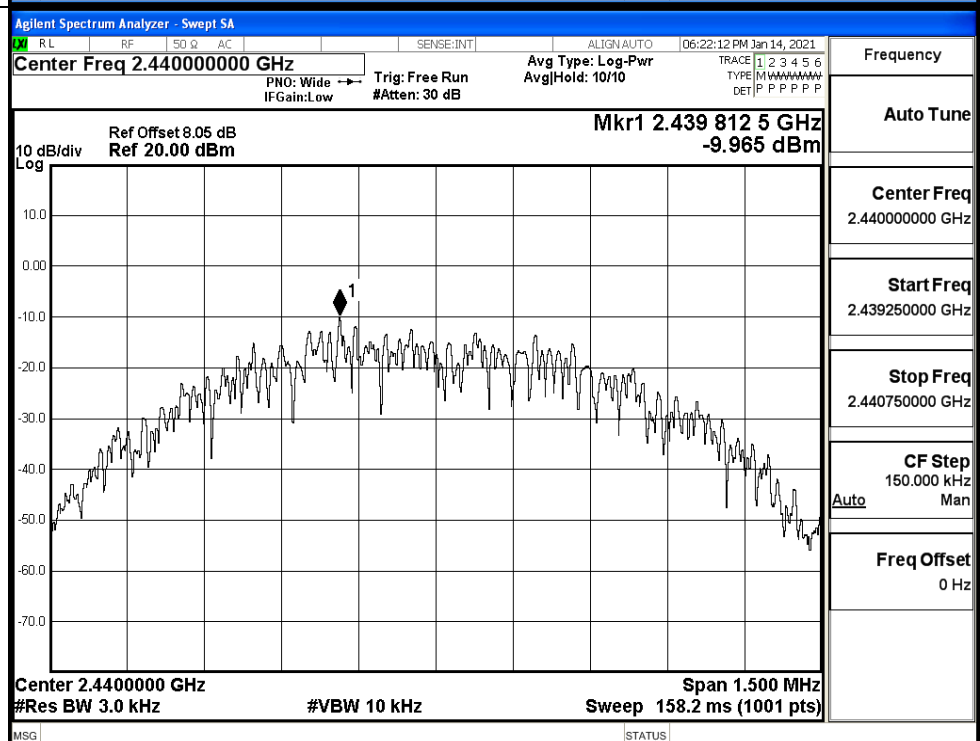
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-9.942	8	PASS
BT LE	MCH	-9.965	8	PASS
BT LE	HCH	-10.753	8	PASS

Test Graphs

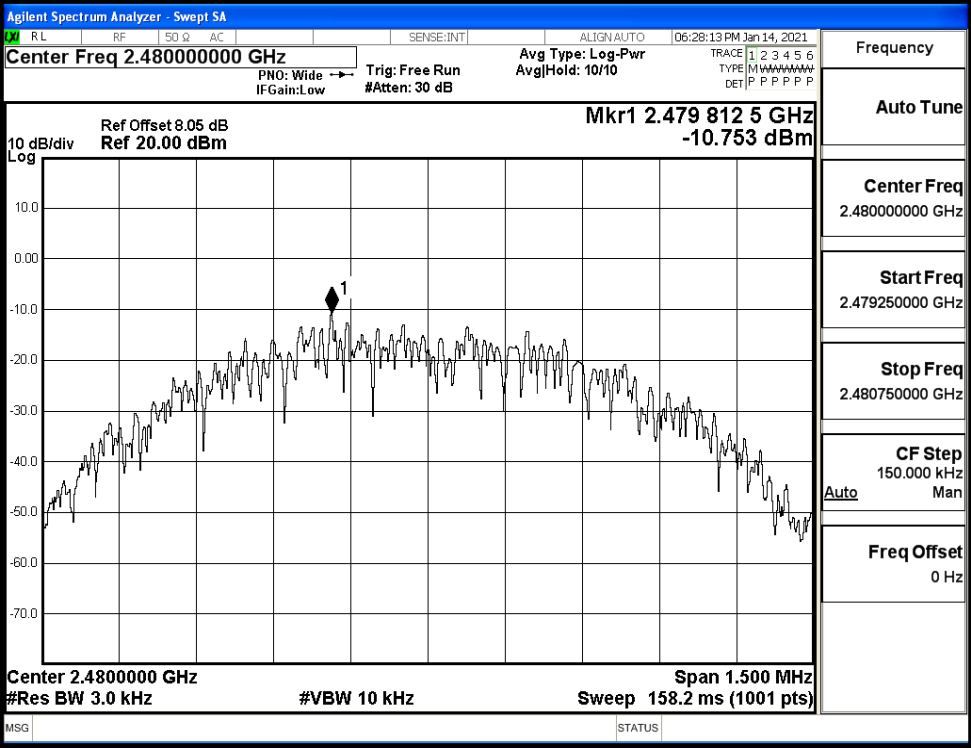
LCH



MCH



HCH

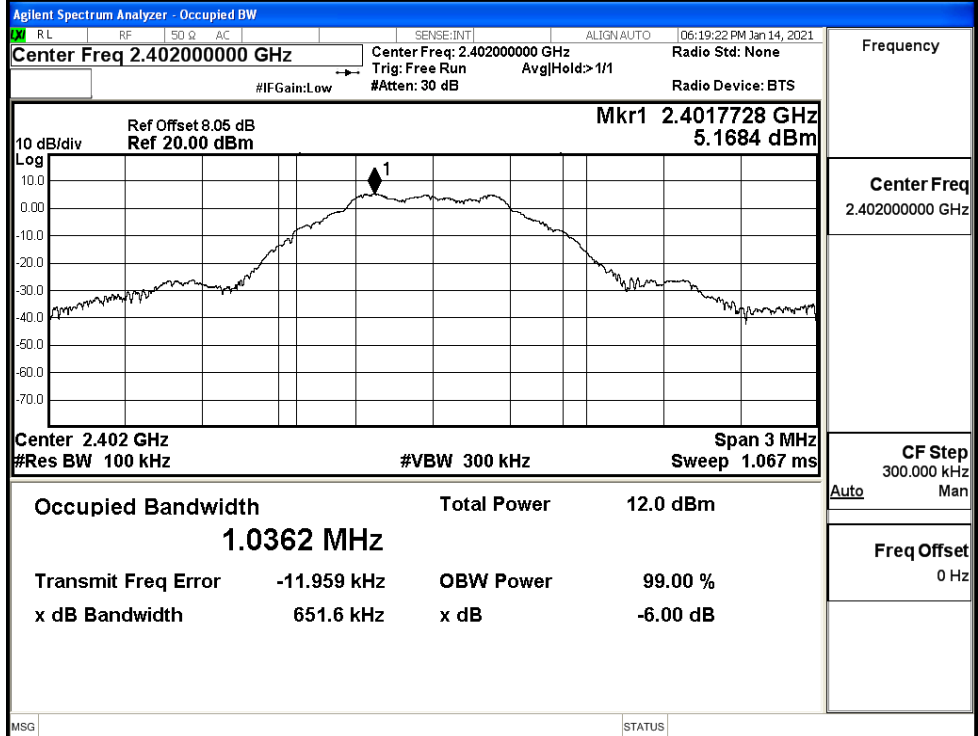


A.4 6dB Bandwidth

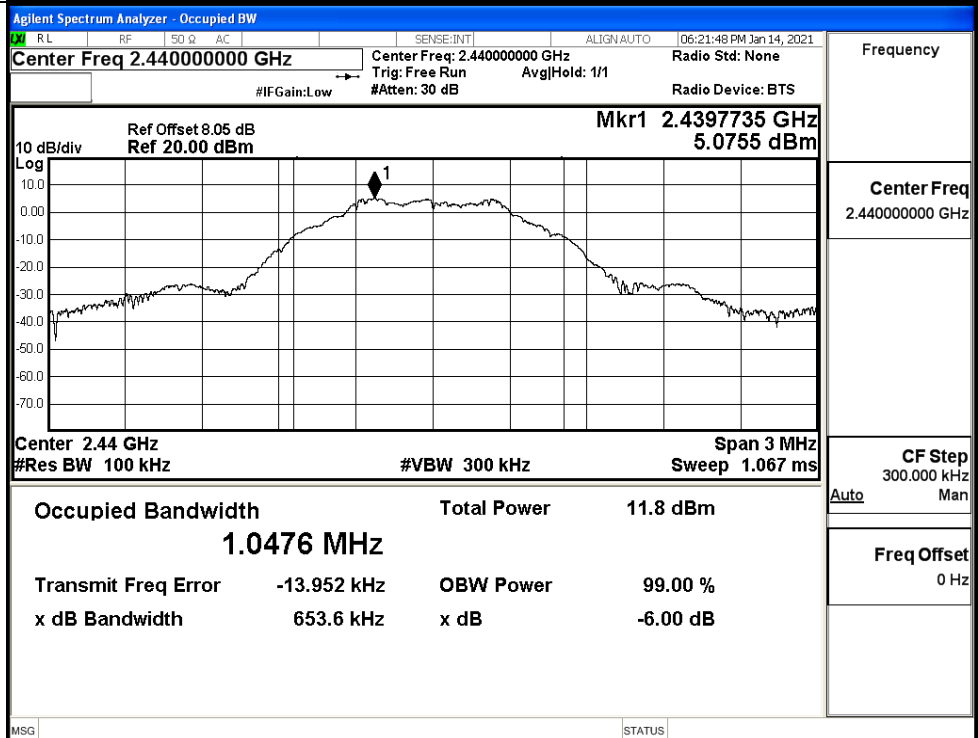
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6516	≥ 0.5	PASS
BT LE	MCH	0.6536	≥ 0.5	PASS
BT LE	HCH	0.6579	≥ 0.5	PASS

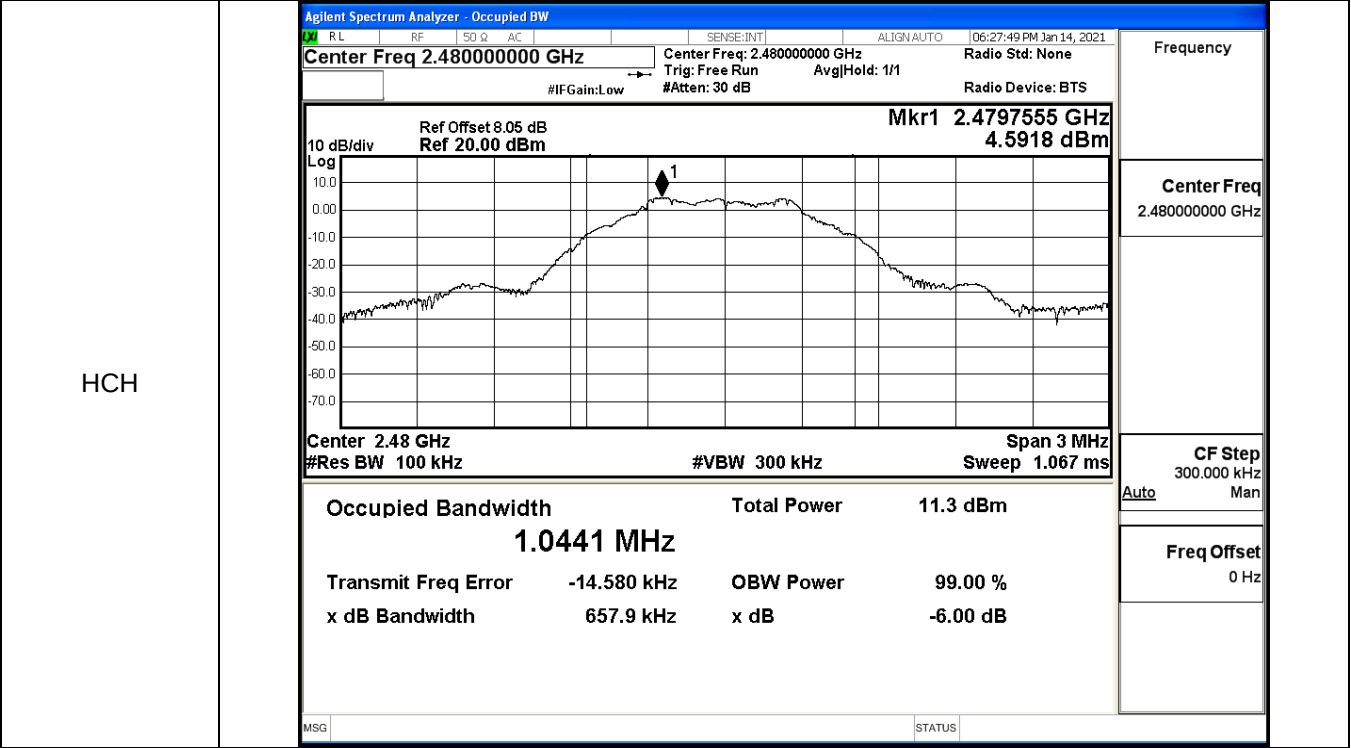
Test Graphs

LCH



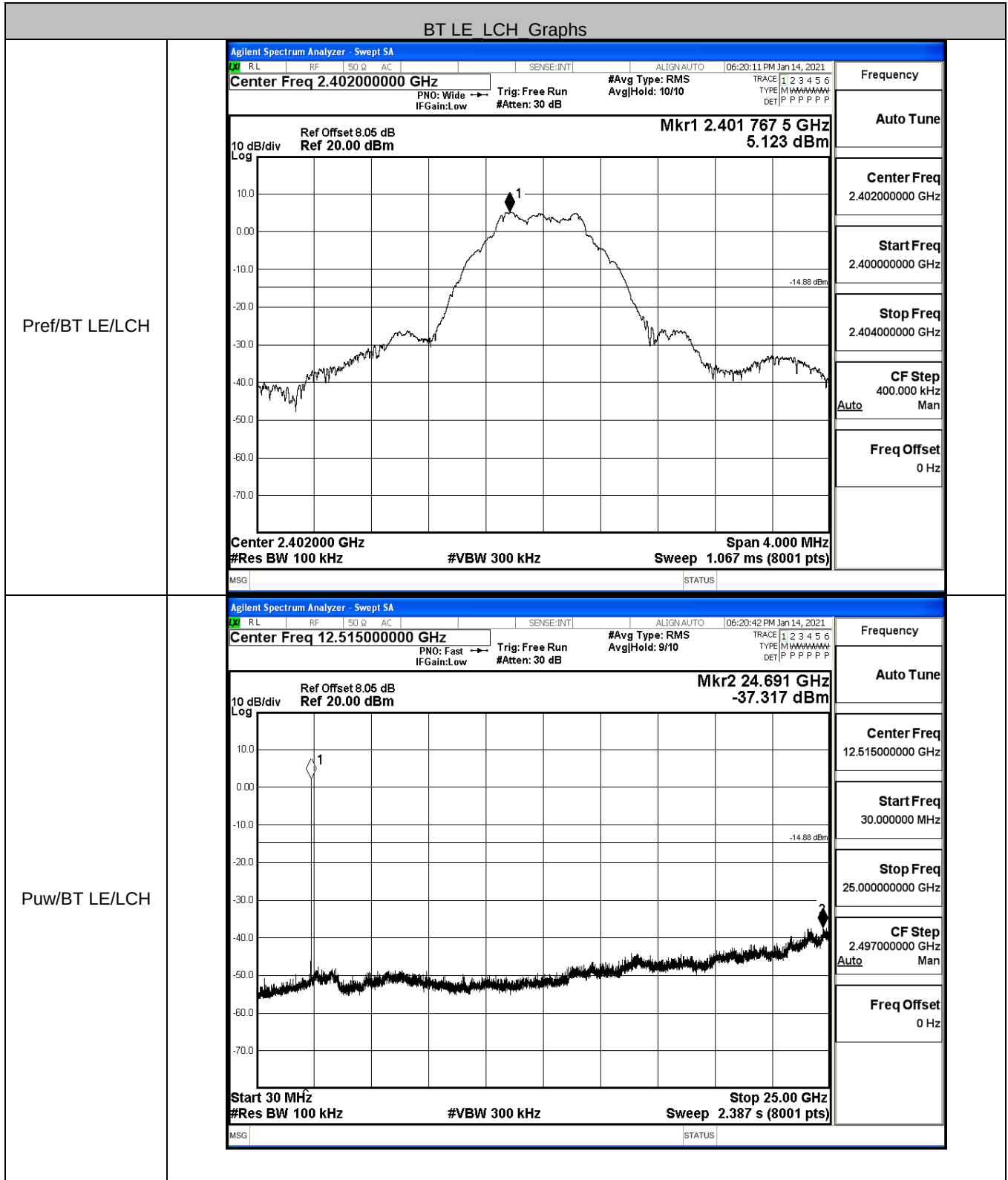
MCH





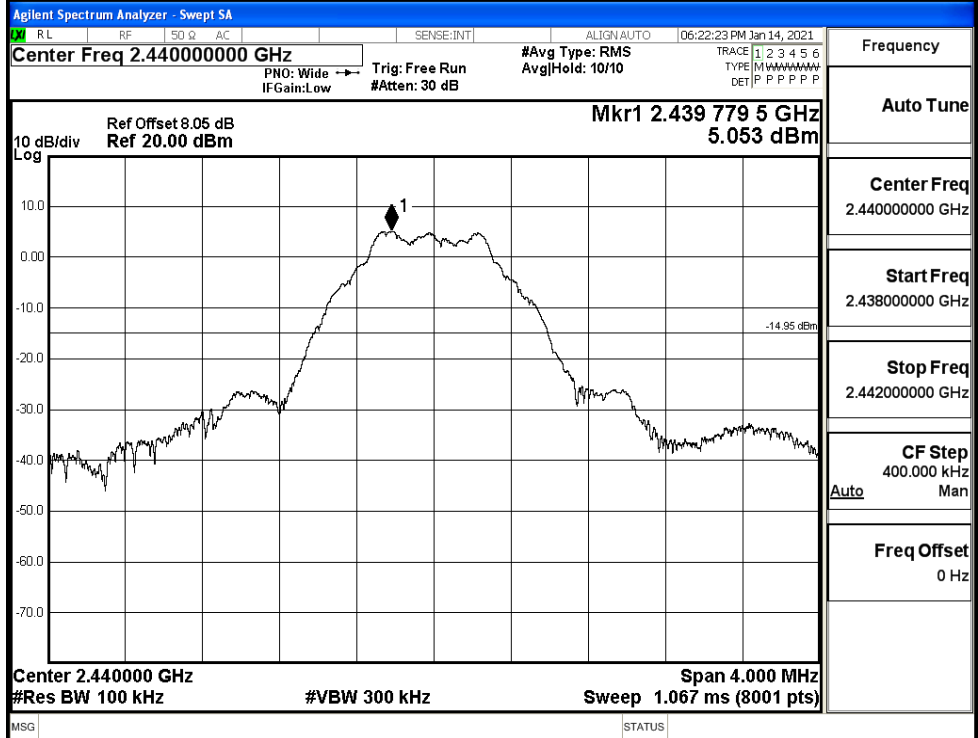
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.123	-37.317	-14.877	PASS
BT LE	MCH	5.053	-37.057	-14.947	PASS
BT LE	HCH	4.49	-36.585	-15.510	PASS

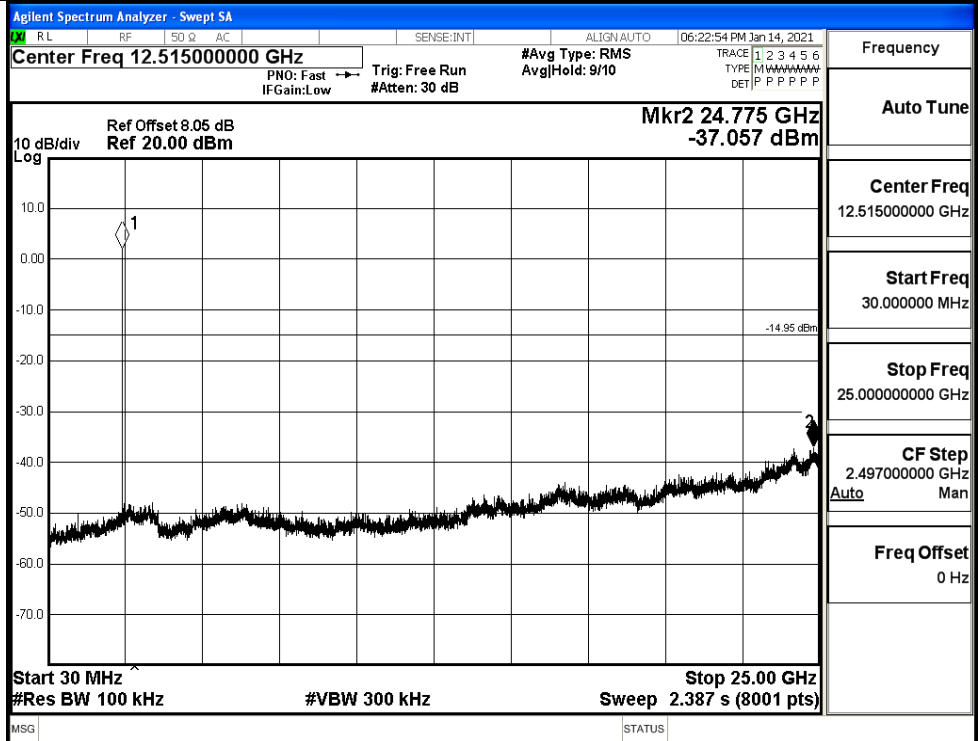


BT LE MCH Graphs

Pref/BT LE/MCH

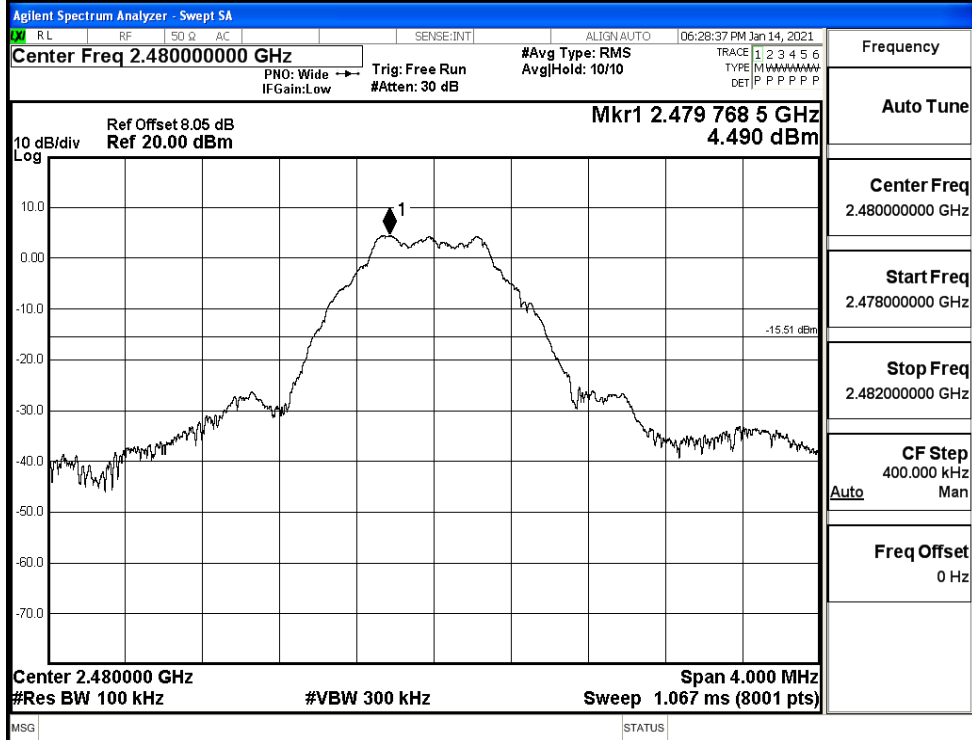


Puw/BT LE/MCH

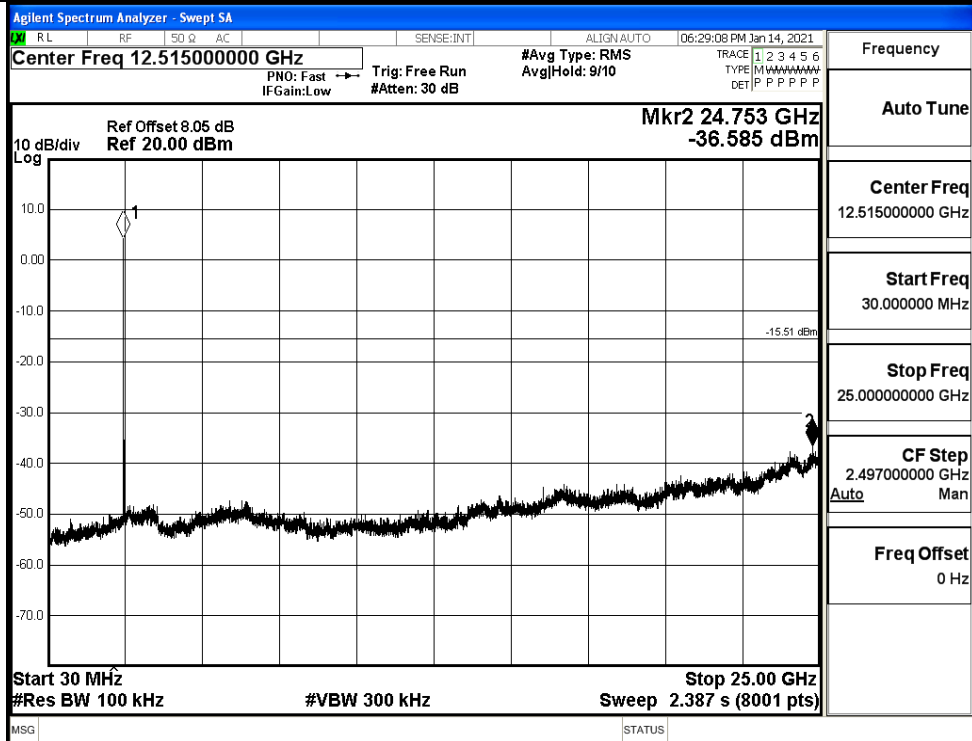


BT LE HCH Graphs

Pref/BT LE/HCH



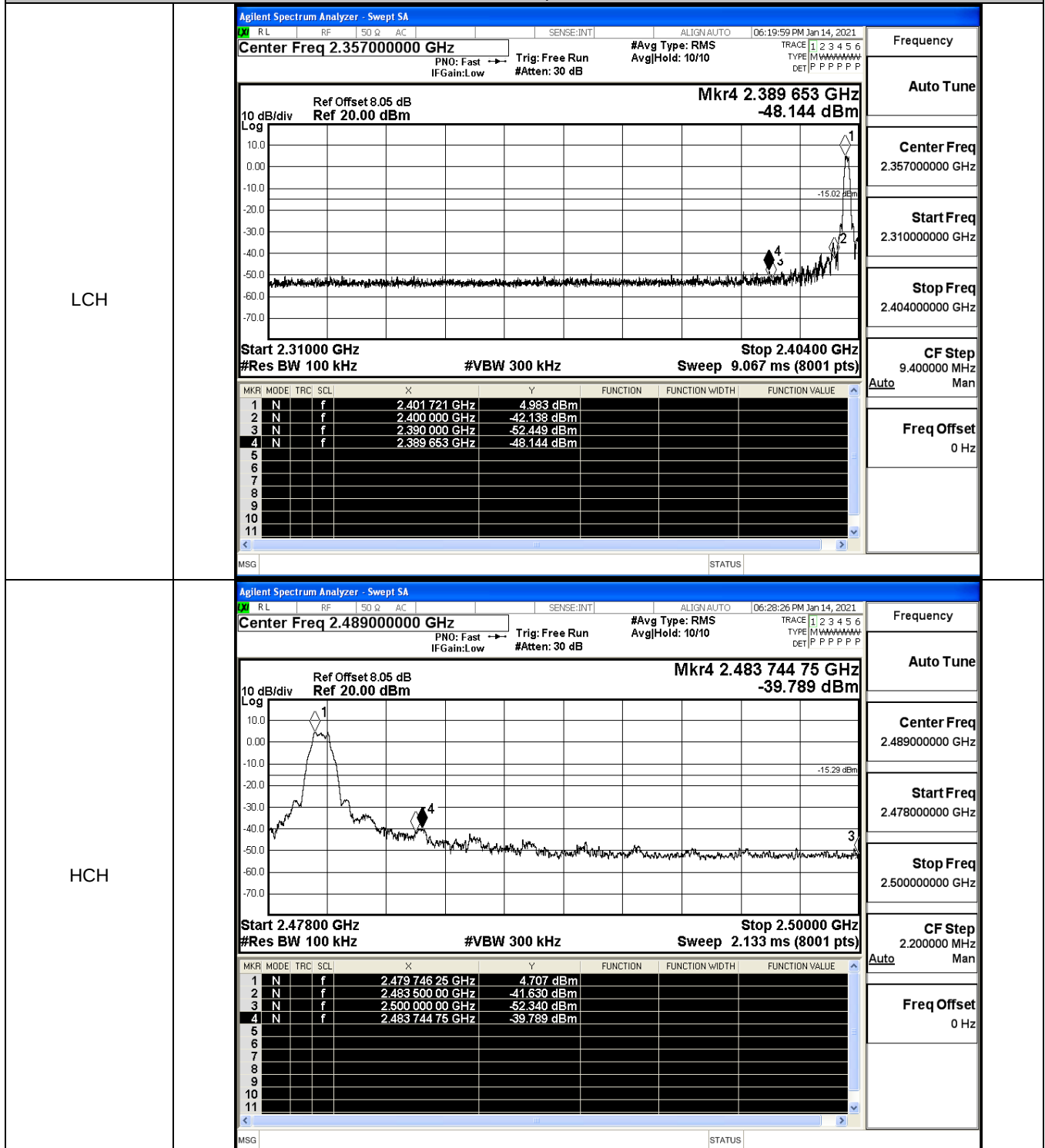
Puw/BT LE/HCH



A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.983	-48.144	-15.02	PASS
BT LE	HCH	4.707	-39.789	-15.29	PASS

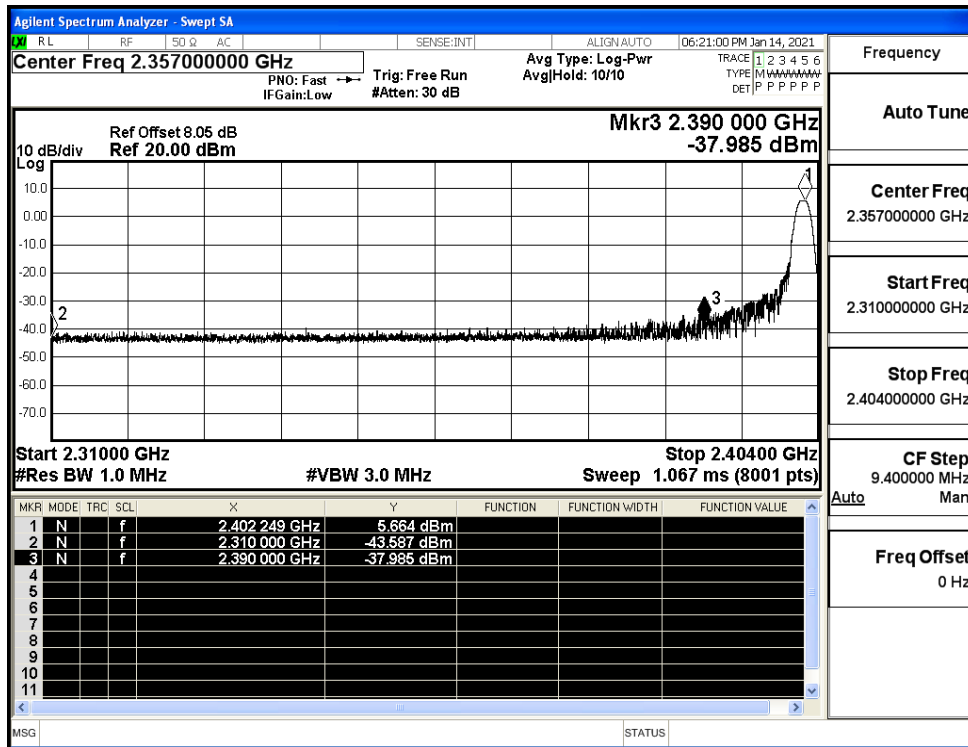
Test Graphs



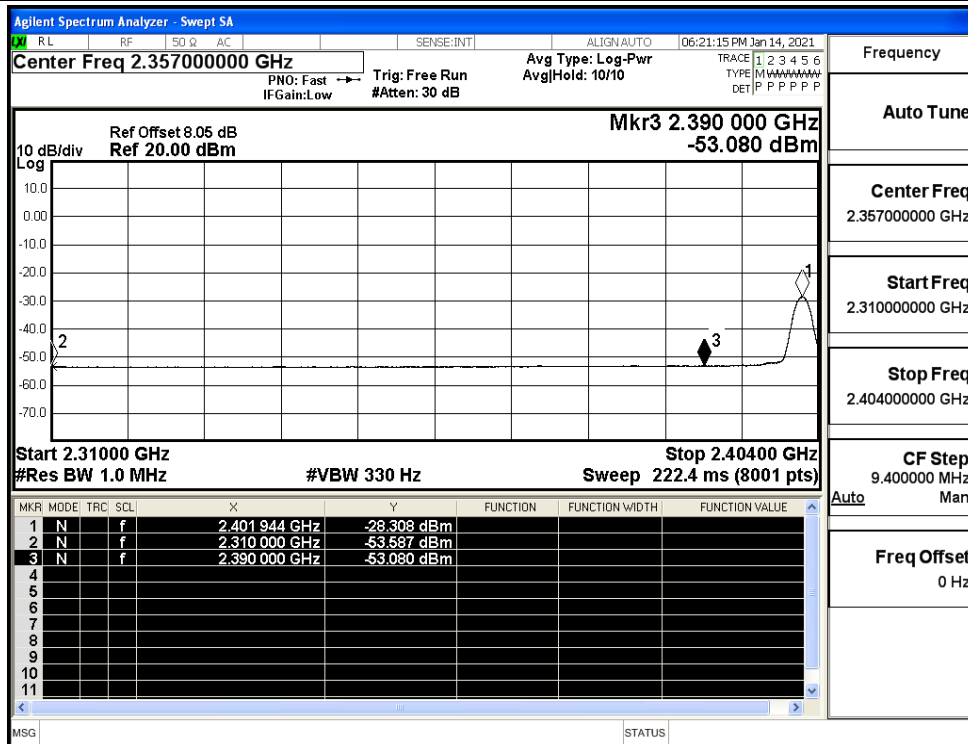
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	2310.0	-43.59	2.0	0	53.64	PEAK	74	PASS
		2310.0	-53.59	2.0	0	43.64	AV	54	PASS
		2390.0	-37.99	2.0	0	59.24	PEAK	74	PASS
		2390.0	-53.08	2.0	0	44.15	AV	54	PASS
	2480	2483.5	-28.91	2.0	0	68.32	PEAK	74	PASS
		2483.5	-51.75	2.0	0	45.48	AV	54	PASS
		2500.0	-42.92	2.0	0	54.31	PEAK	74	PASS
		2500.0	-52.52	2.0	0	44.71	AV	54	PASS

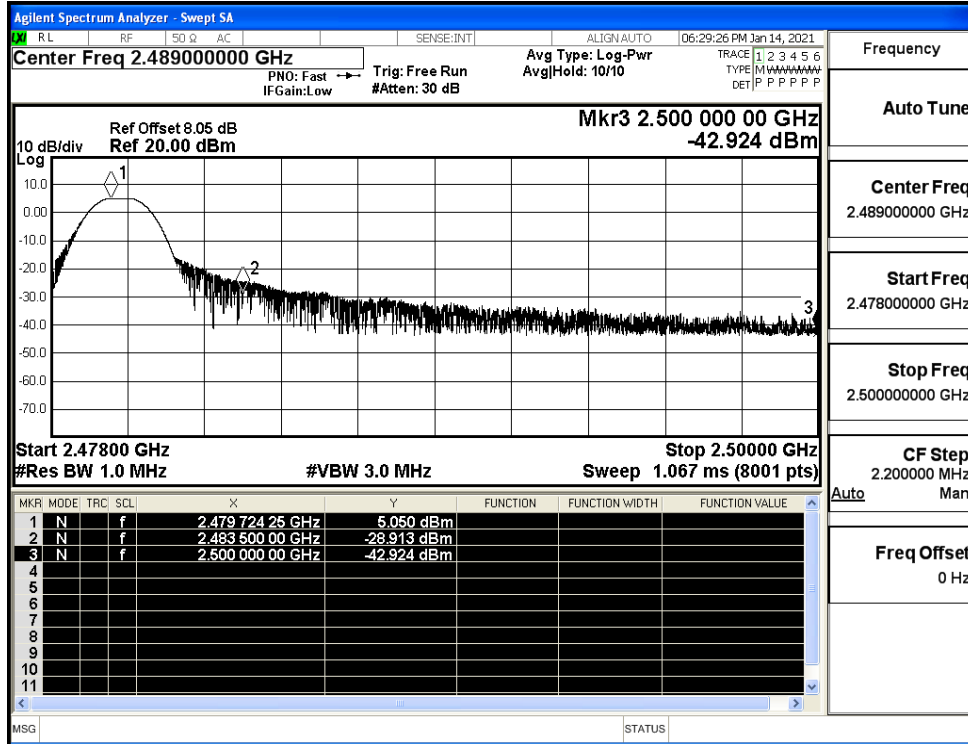
Restrict-band band-edge measurements_BT LE_2402_PEAK



Restrict-band band-edge measurements_BT LE_2402_AV



Restrict-band band-edge measurements_BT LE_2480_PEAK



Restrict-band band-edge measurements_BT LE_2480_AV

