

Appendix B

RF Test Data for BT V5.0(LE) (Conducted Measurement)

Product Name: Nreal Computing Unit

Trade Mark:  nreal

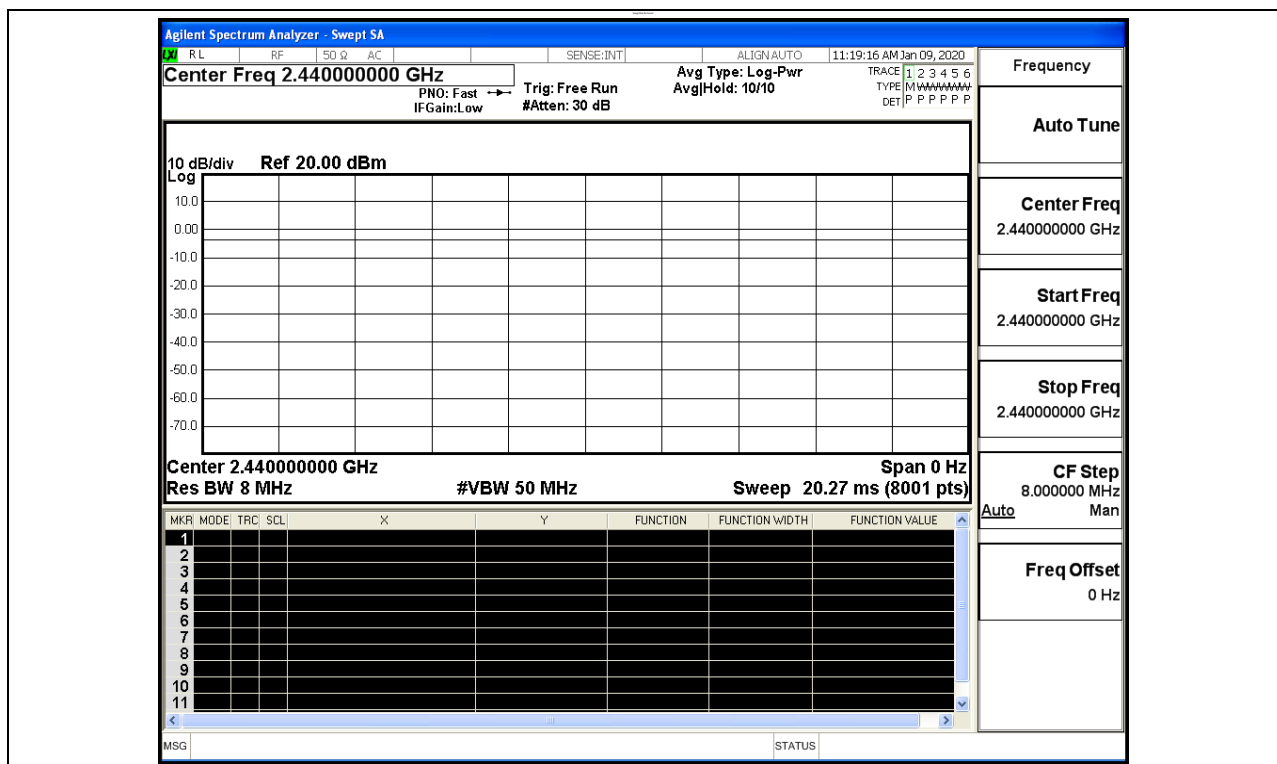
Test Model: NR-9100UGL

Environmental Conditions

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

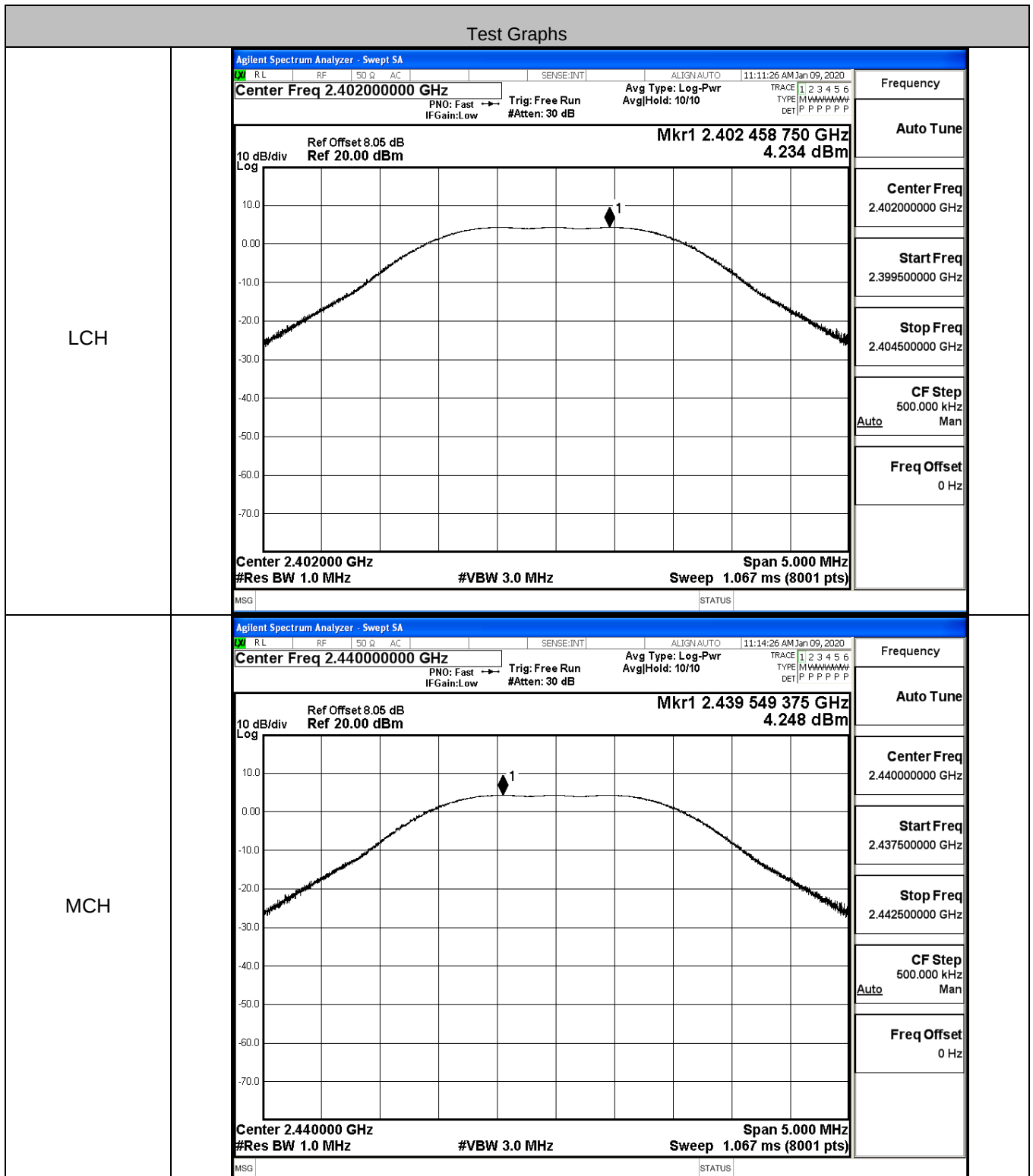
B.1 Duty Cycle

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

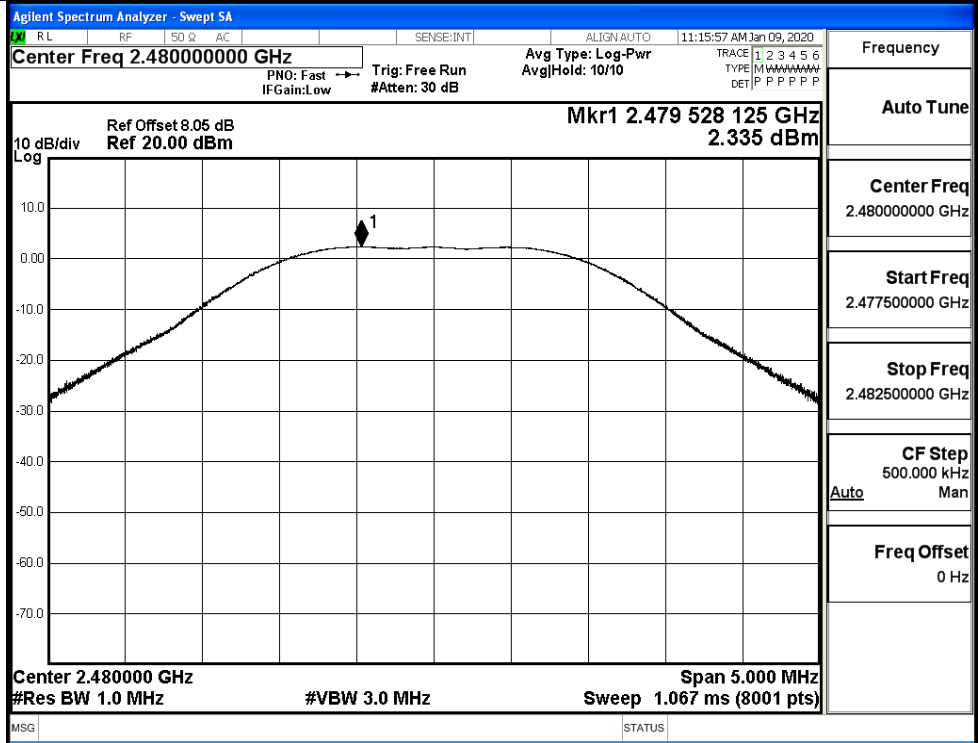


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.234	30	PASS
BT LE	MCH	4.248	30	PASS
BT LE	HCH	2.335	30	PASS

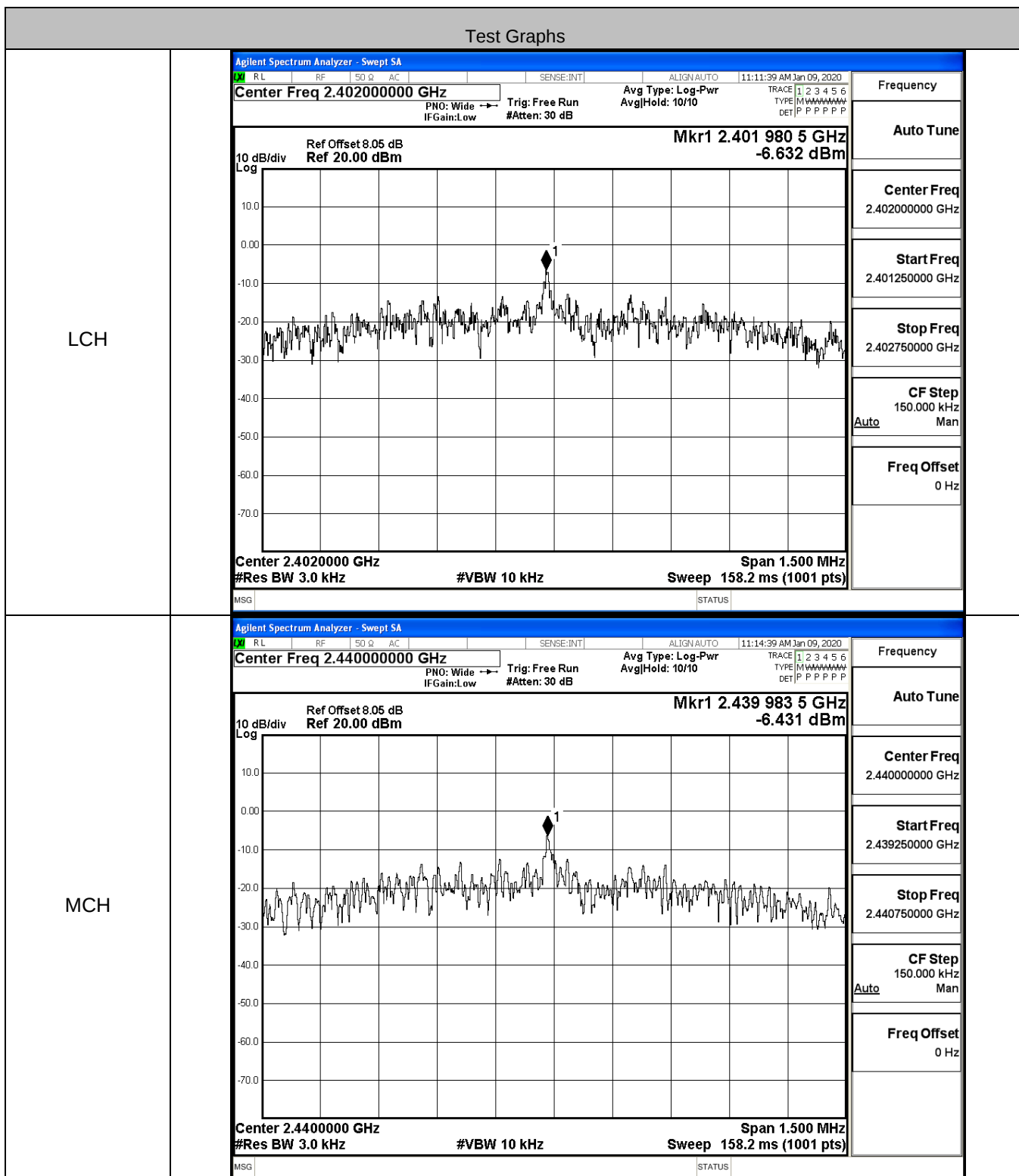


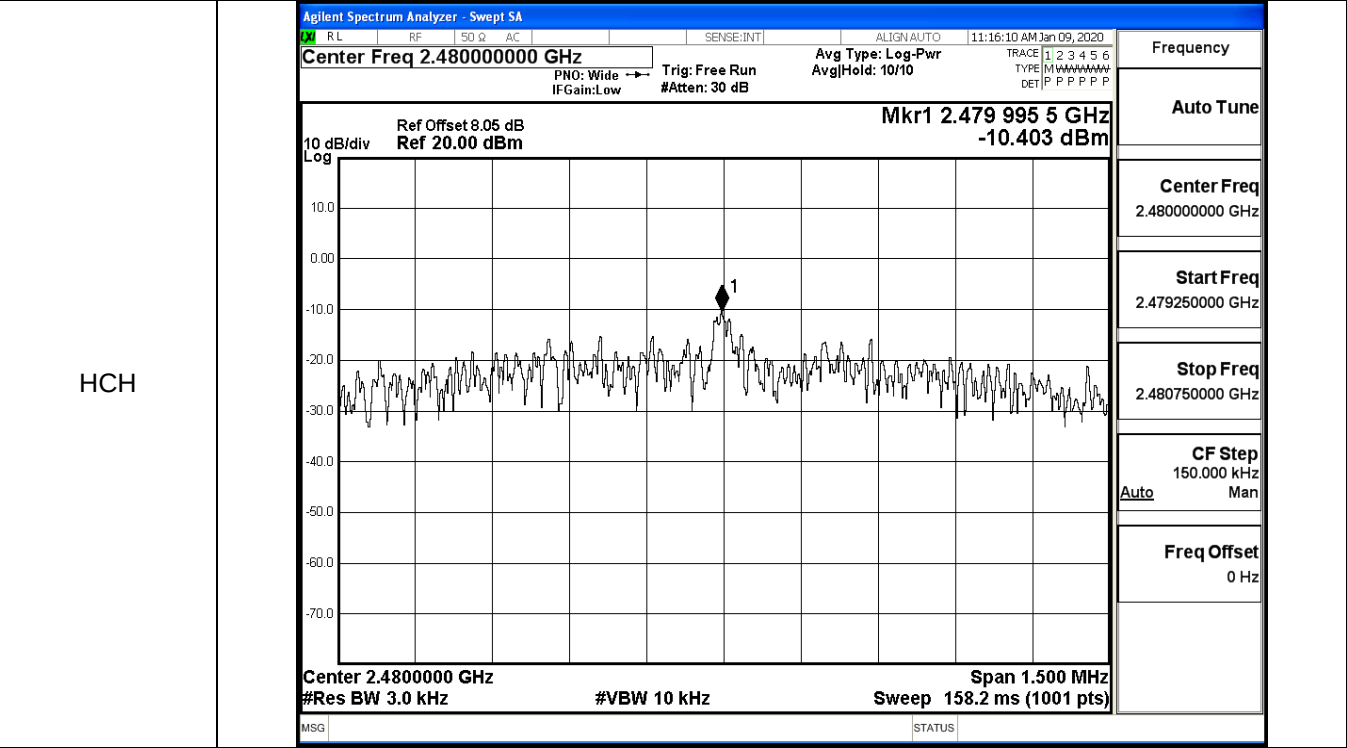
HCH



B.3 Maximum Power Spectral Density

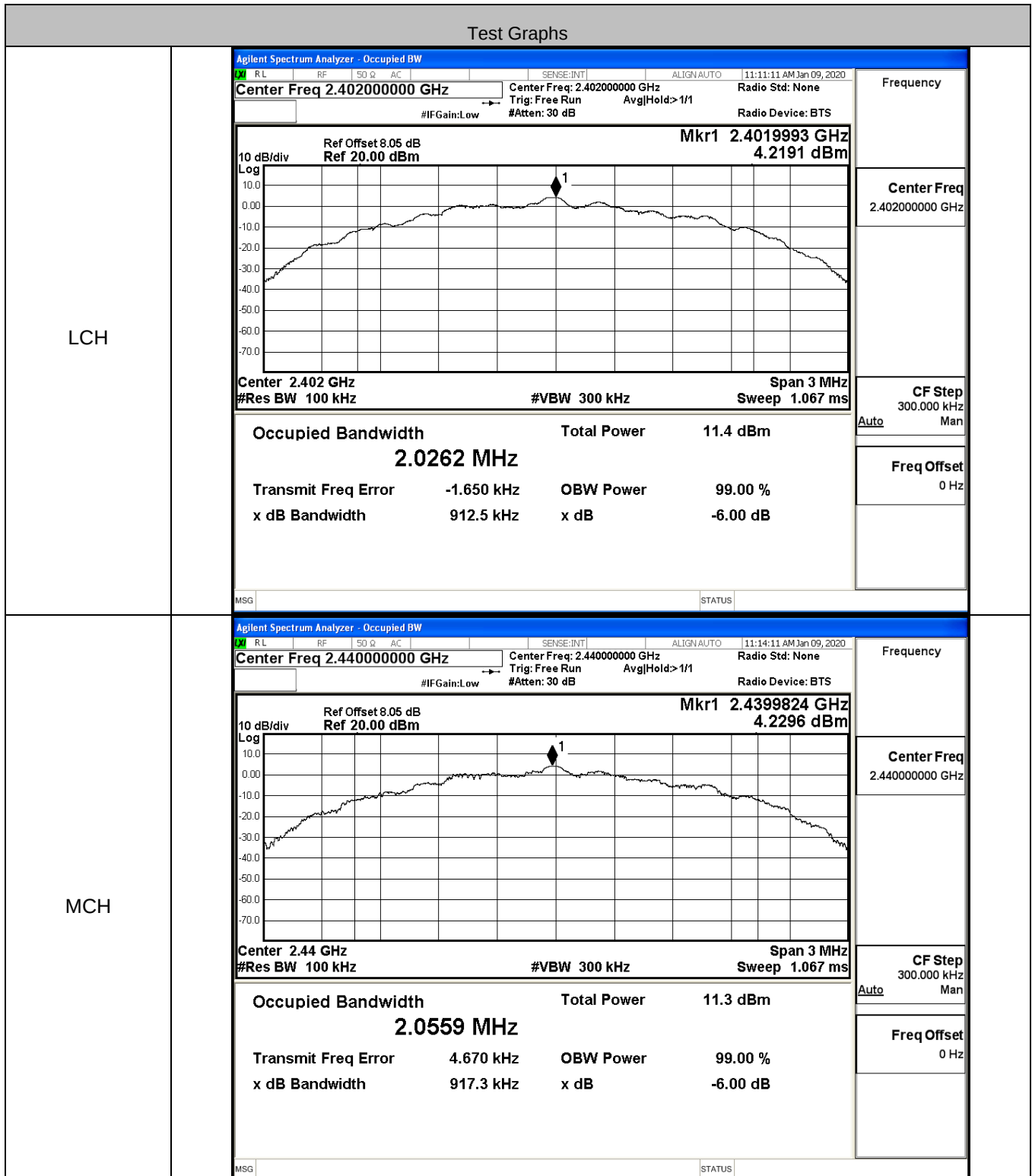
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-6.632	8	PASS
BT LE	MCH	-6.431	8	PASS
BT LE	HCH	-10.403	8	PASS



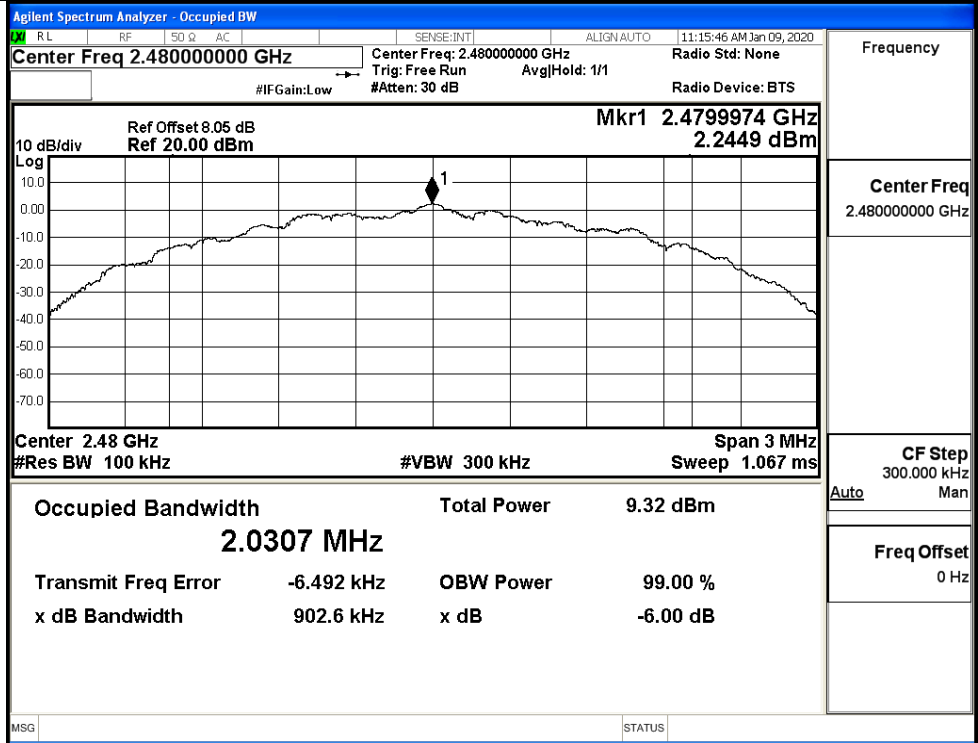


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.9125	≥ 0.5	PASS
BT LE	MCH	0.9173	≥ 0.5	PASS
BT LE	HCH	0.9026	≥ 0.5	PASS

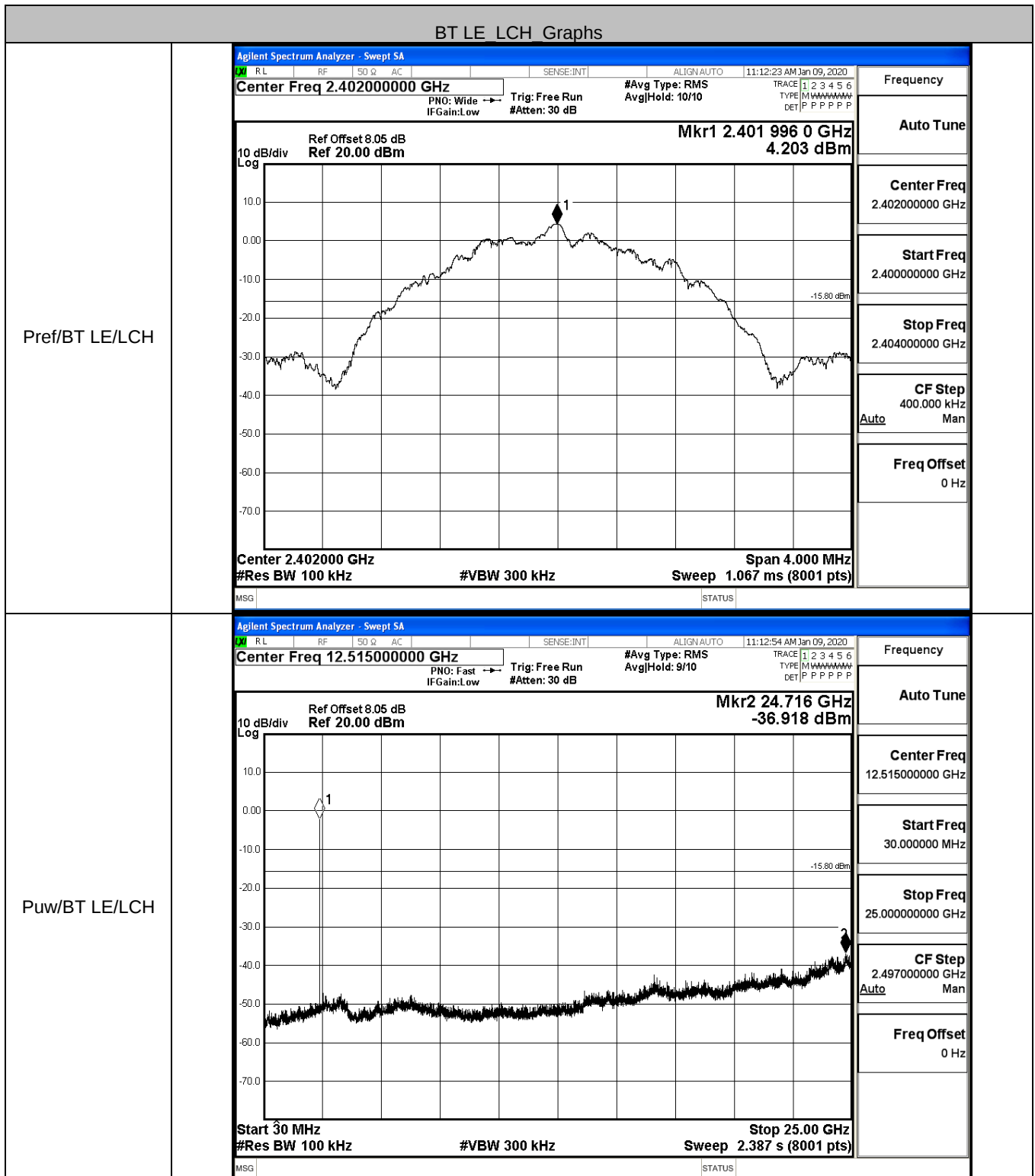


HCH



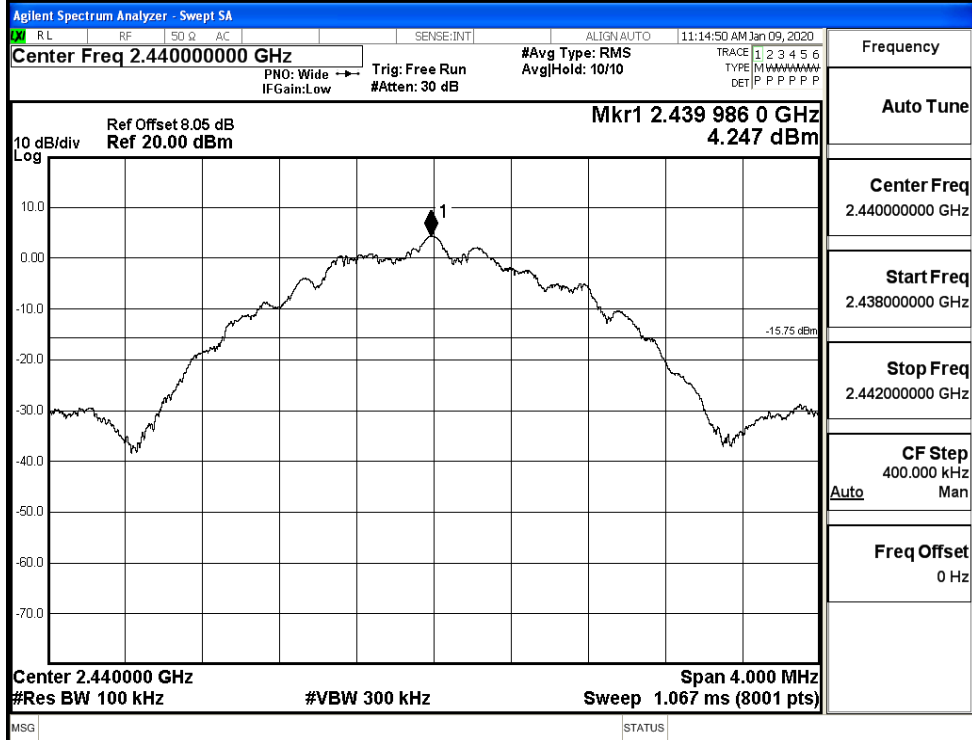
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.203	-36.918	-15.797	PASS
BT LE	MCH	4.247	-36.743	-15.753	PASS
BT LE	HCH	2.286	-37.150	-17.714	PASS

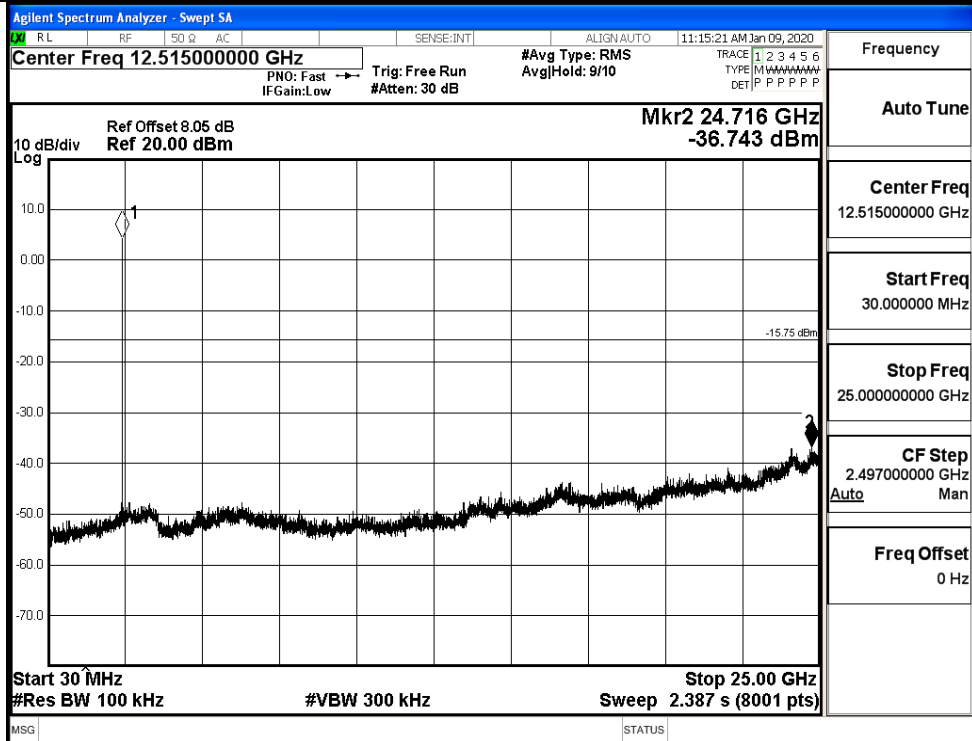


BT LE MCH Graphs

Pref/BT LE/MCH

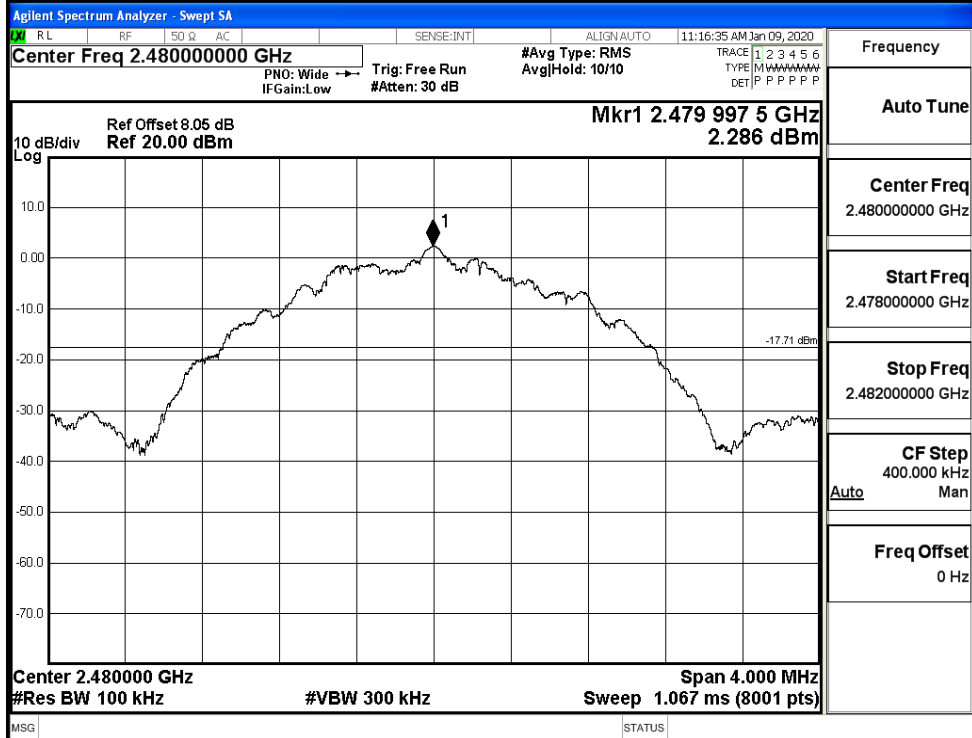


Puw/BT LE/MCH

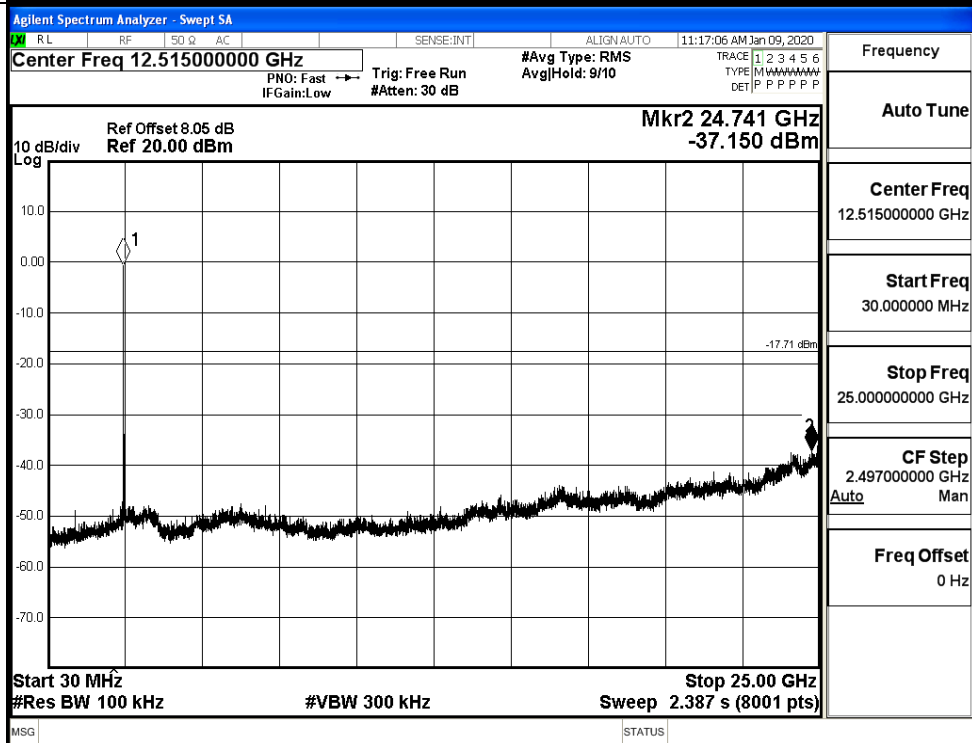


BT LE HCH Graphs

Pref/BT LE/HCH

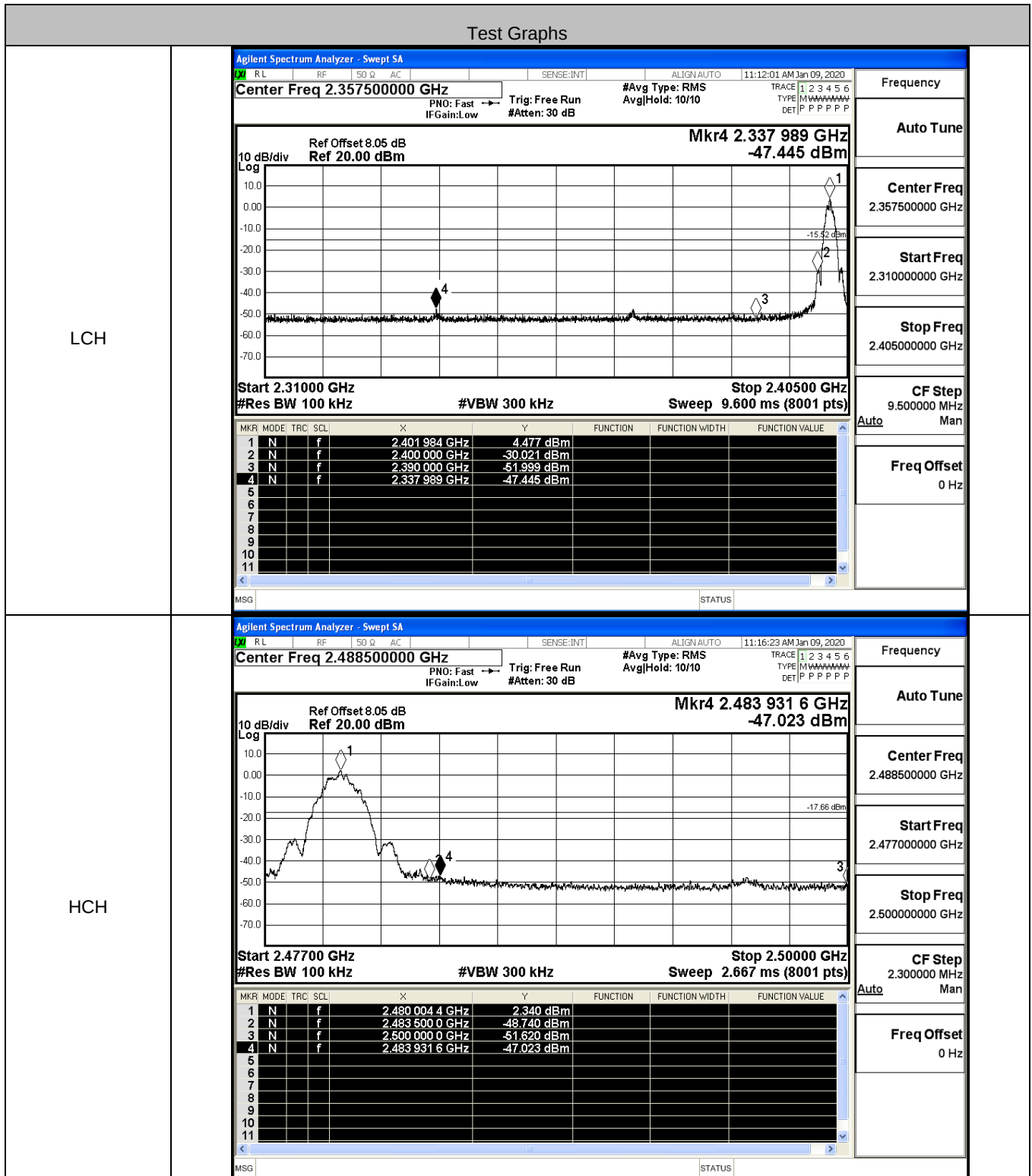


Puw/BT LE/HCH



B.6 Band-edge for RF Conducted Emissions

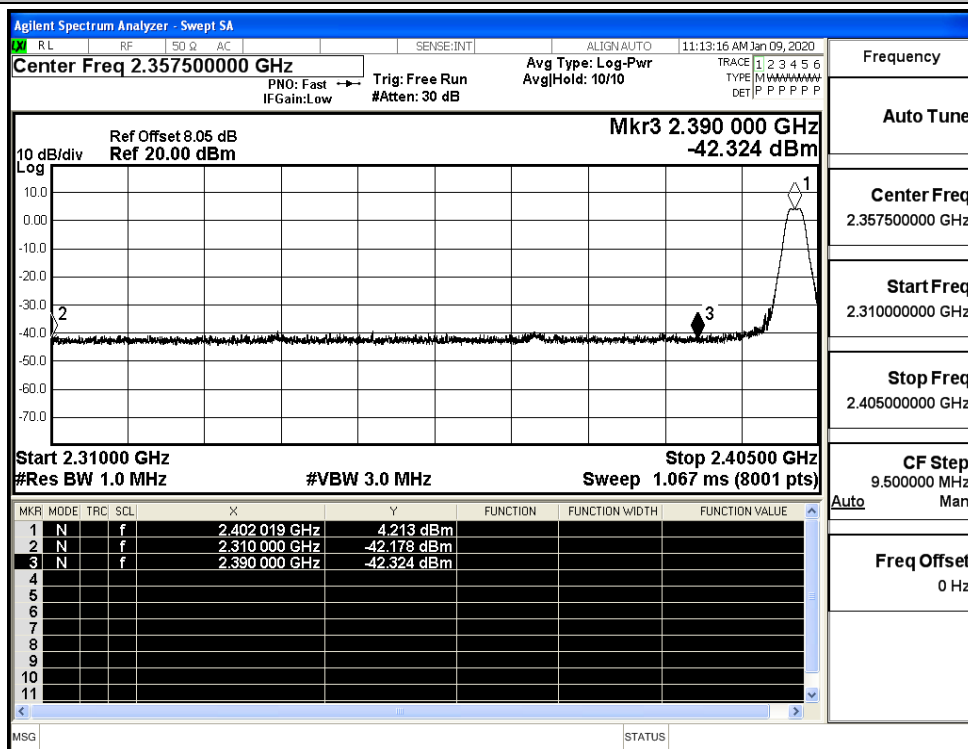
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.477	-47.445	-15.52	PASS
BT LE	HCH	2.340	-47.023	-17.66	PASS



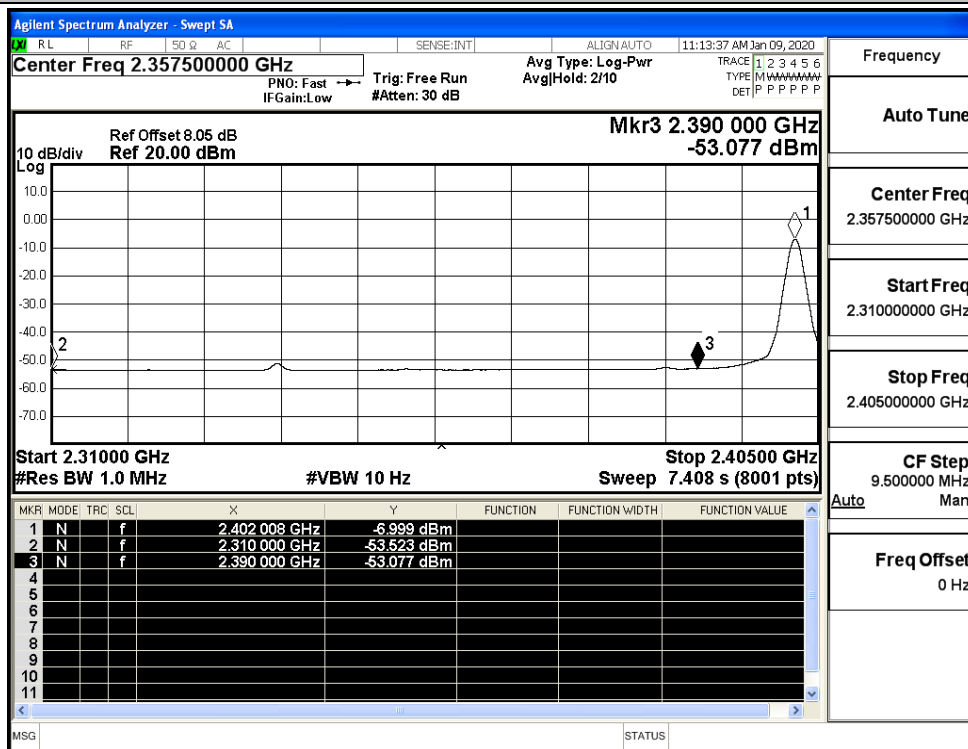
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-42.18	2.0	0	53.08	PEAK	74	PASS
		Ant1	2310.0	-53.52	2.0	0	41.73	AV	54	PASS
		Ant1	2390.0	-42.32	2.0	0	52.93	PEAK	74	PASS
		Ant1	2390.0	-53.08	2.0	0	42.18	AV	54	PASS
	2480	Ant1	2483.5	-36.87	2.0	0	58.39	PEAK	74	PASS
		Ant1	2483.5	-48.16	2.0	0	47.10	AV	54	PASS
		Ant1	2500.0	-40.65	2.0	0	54.61	PEAK	74	PASS
		Ant1	2500.0	-52.29	2.0	0	42.97	AV	54	PASS

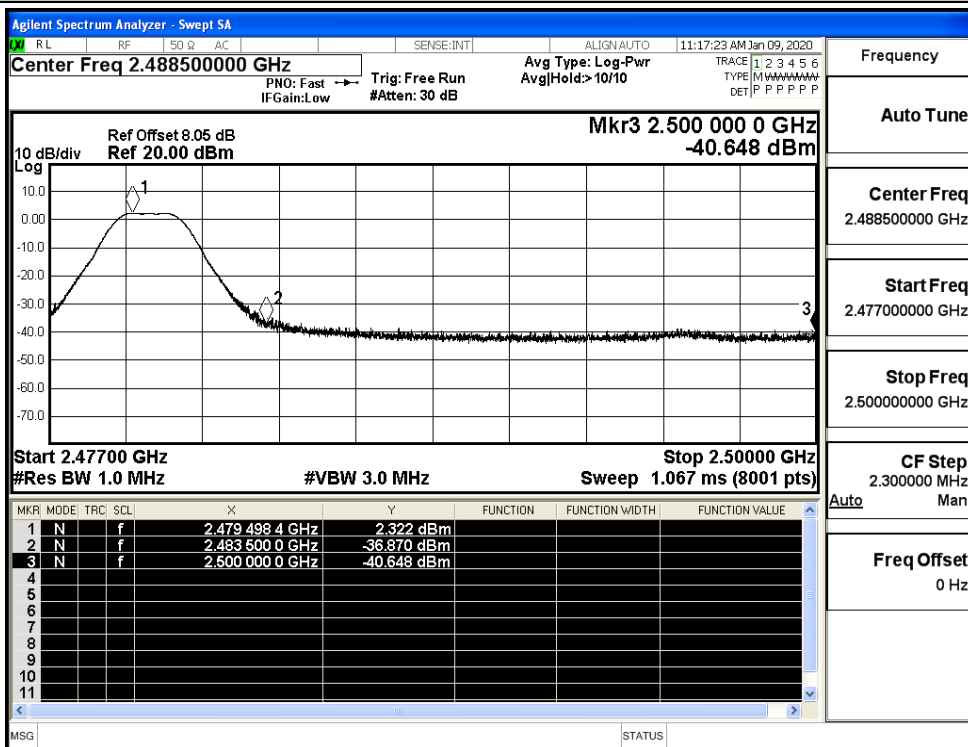
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

