

Appendix B

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Smart talkie

Trade Mark: N/A

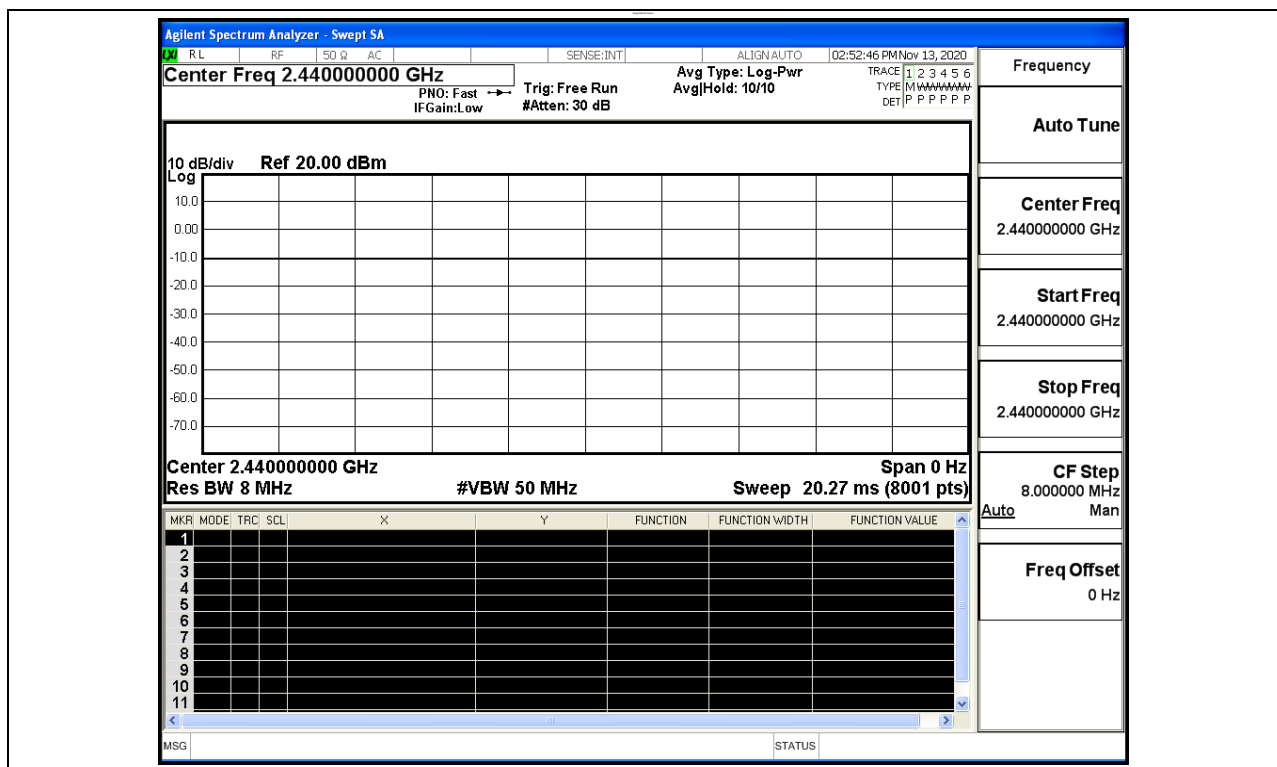
Test Model: T2

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Jam Zheng
Supervised by:	Li Huan

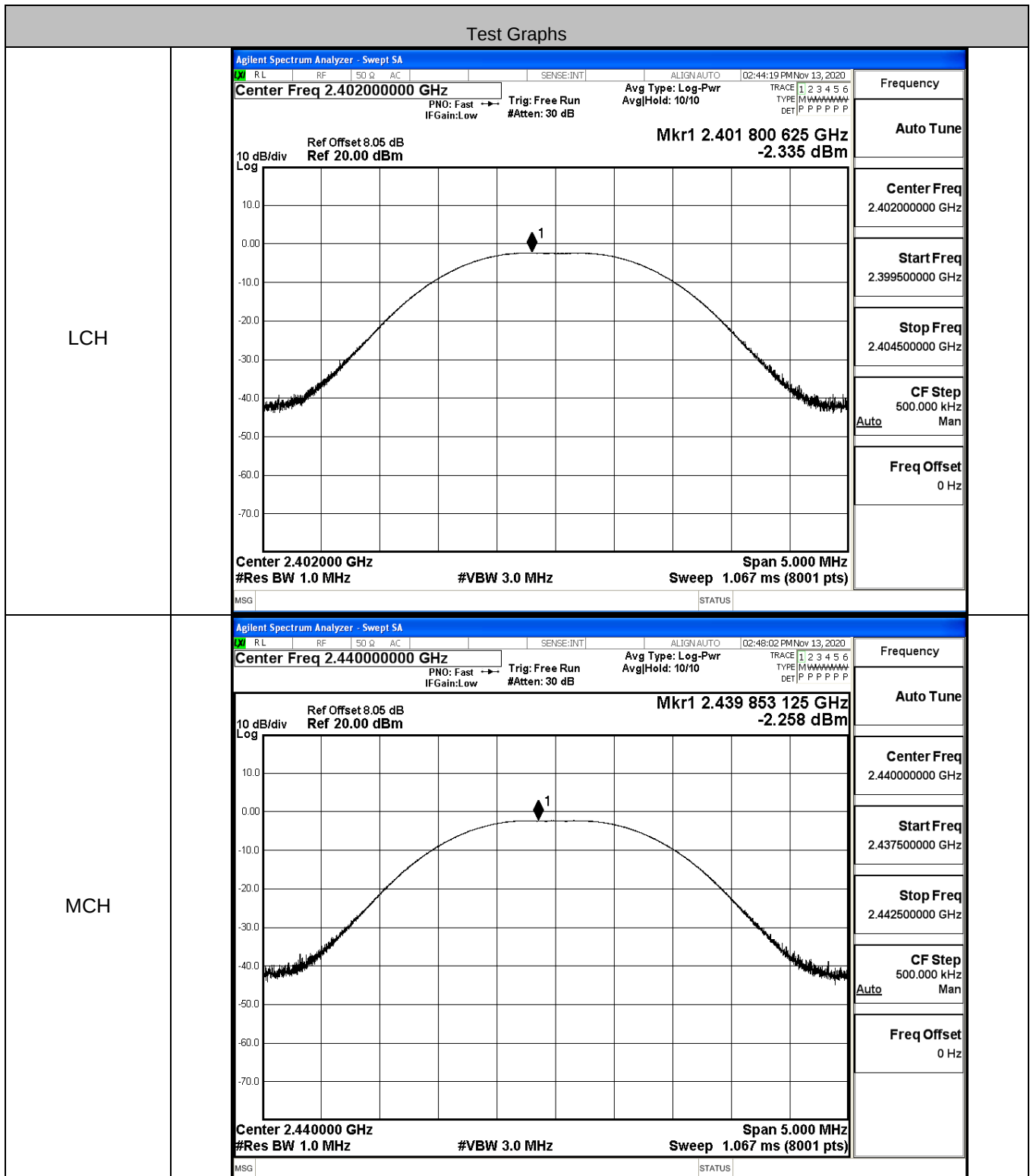
B.1 Duty Cycle

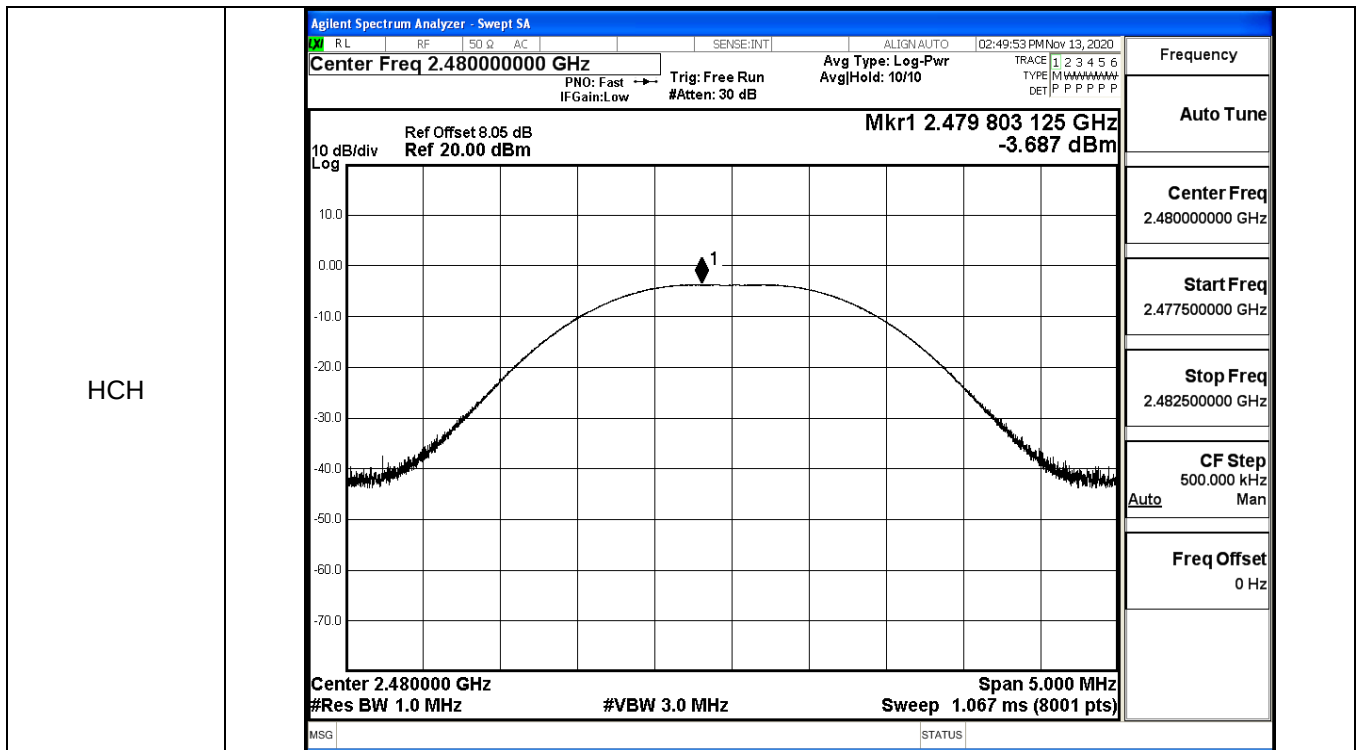
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.335	30	PASS
BT LE	MCH	-2.258	30	PASS
BT LE	HCH	-3.687	30	PASS



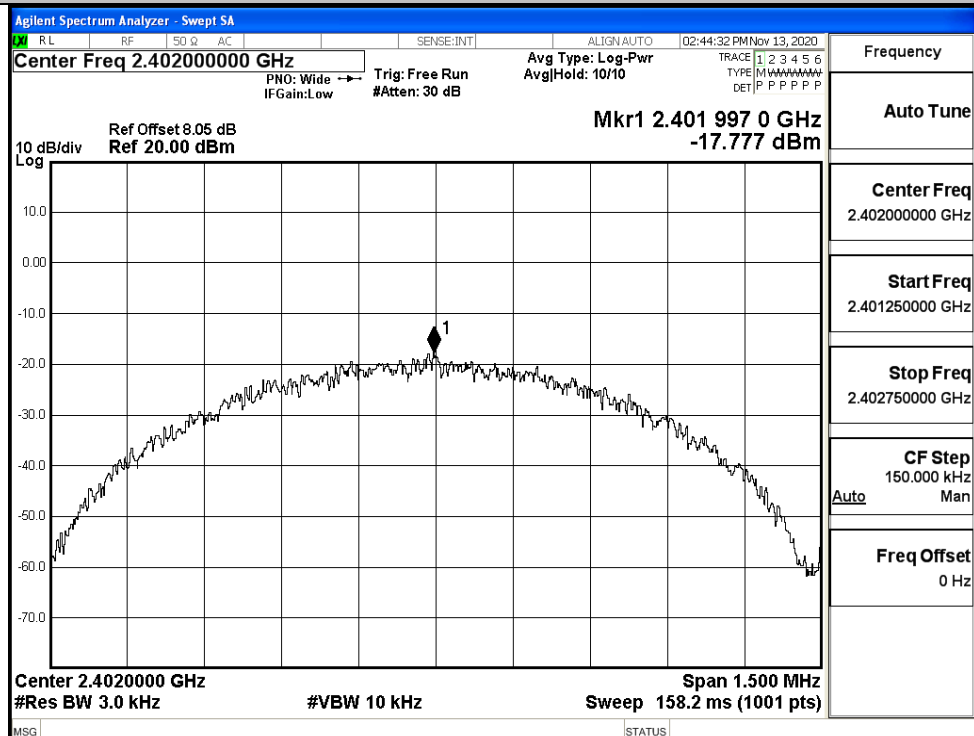


B.3 Maximum Power Spectral Density

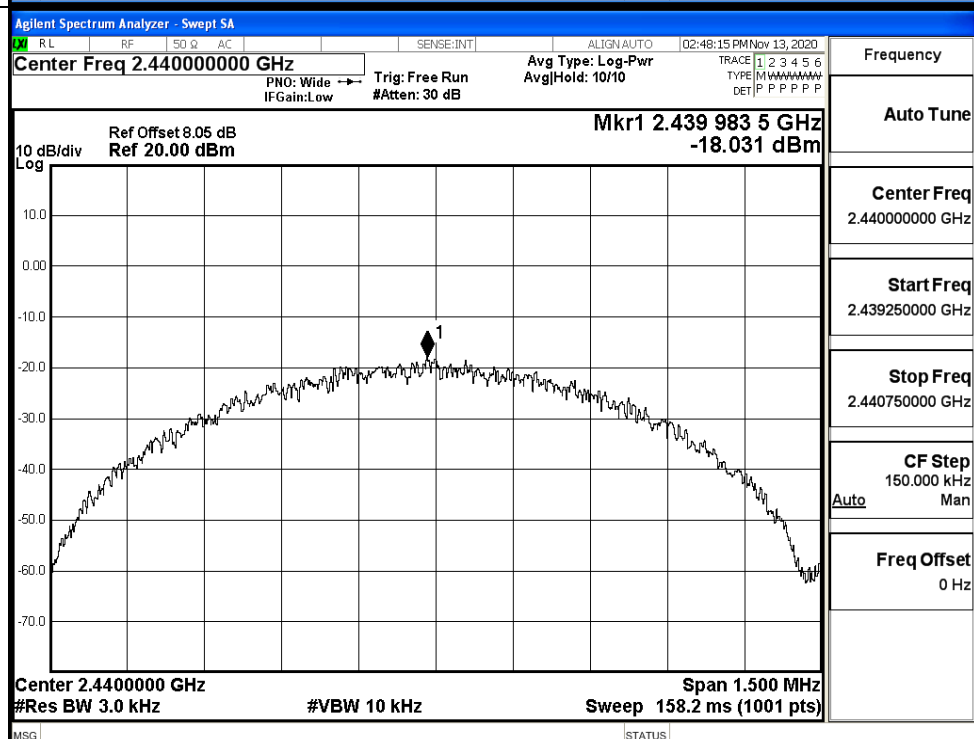
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.777	8	PASS
BT LE	MCH	-18.031	8	PASS
BT LE	HCH	-19.564	8	PASS

Test Graphs

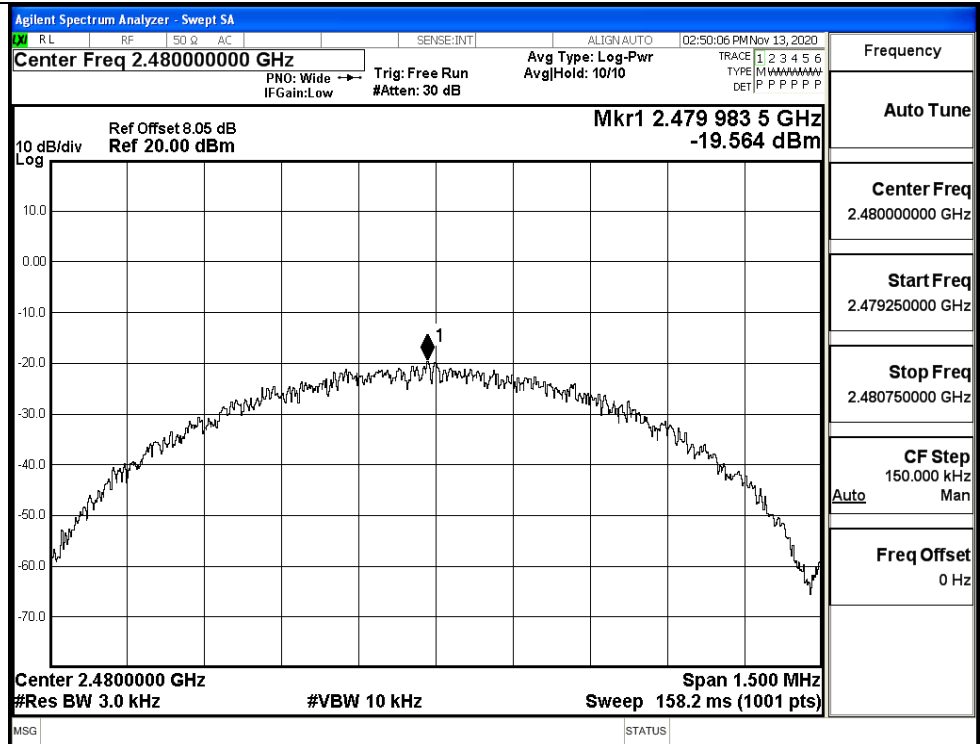
LCH



MCH



HCH

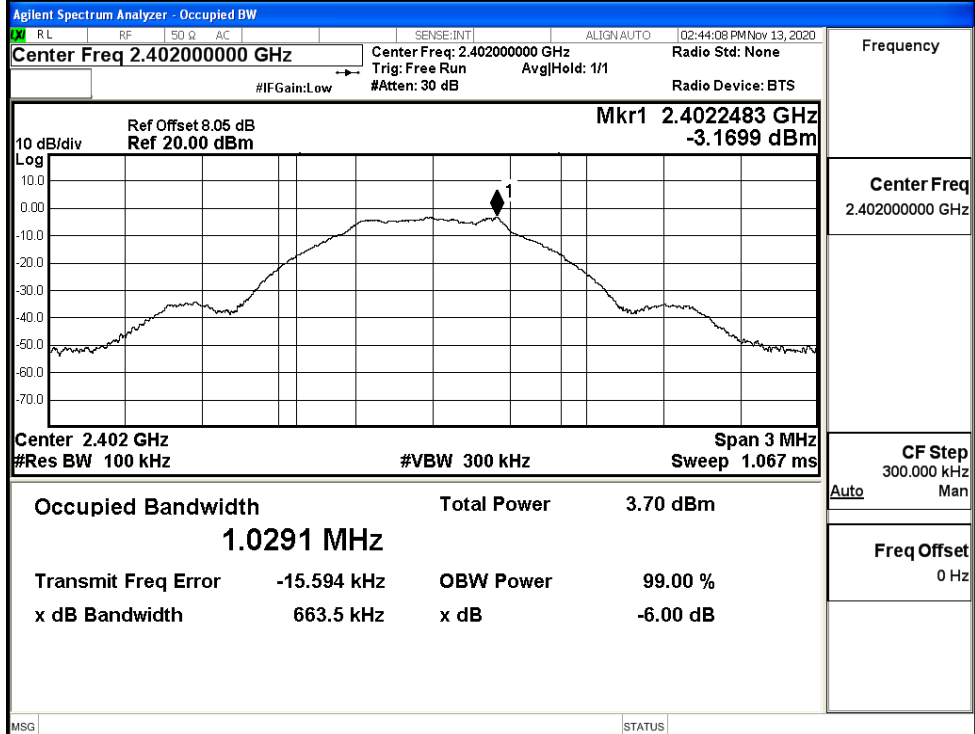


B.4 6dB Bandwidth

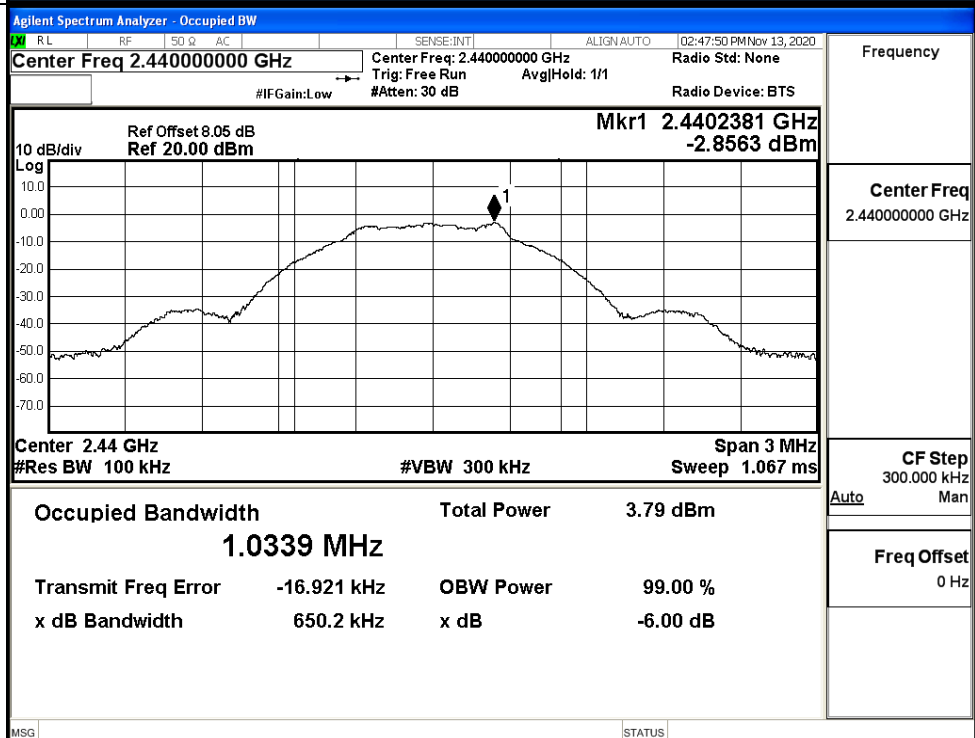
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6635	≥ 0.5	PASS
BT LE	MCH	0.6502	≥ 0.5	PASS
BT LE	HCH	0.6482	≥ 0.5	PASS

Test Graphs

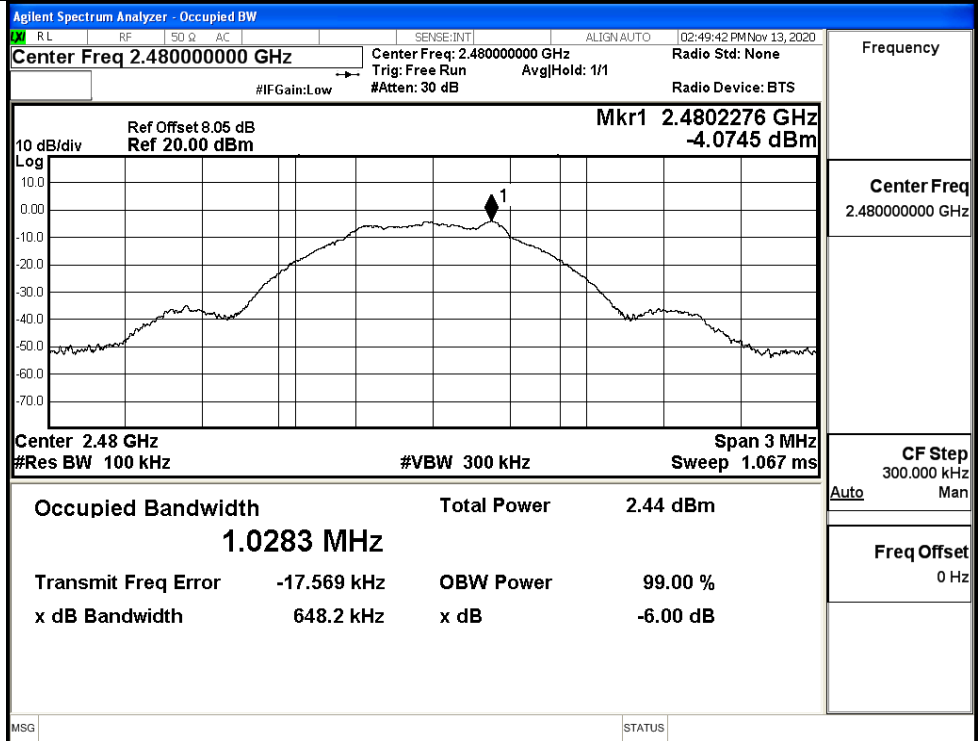
LCH



MCH



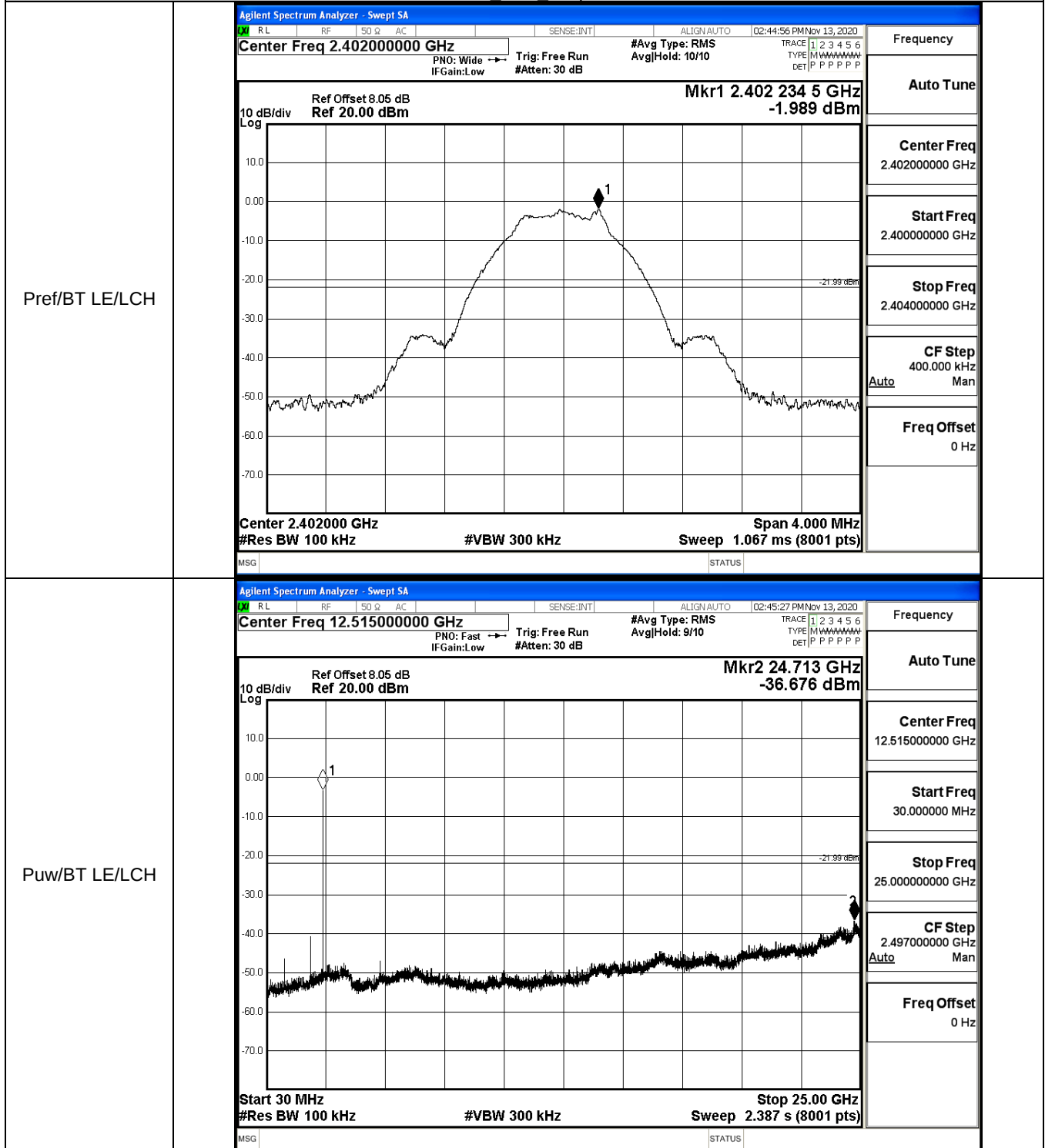
HCH



B.5 RF Conducted Spurious Emissions

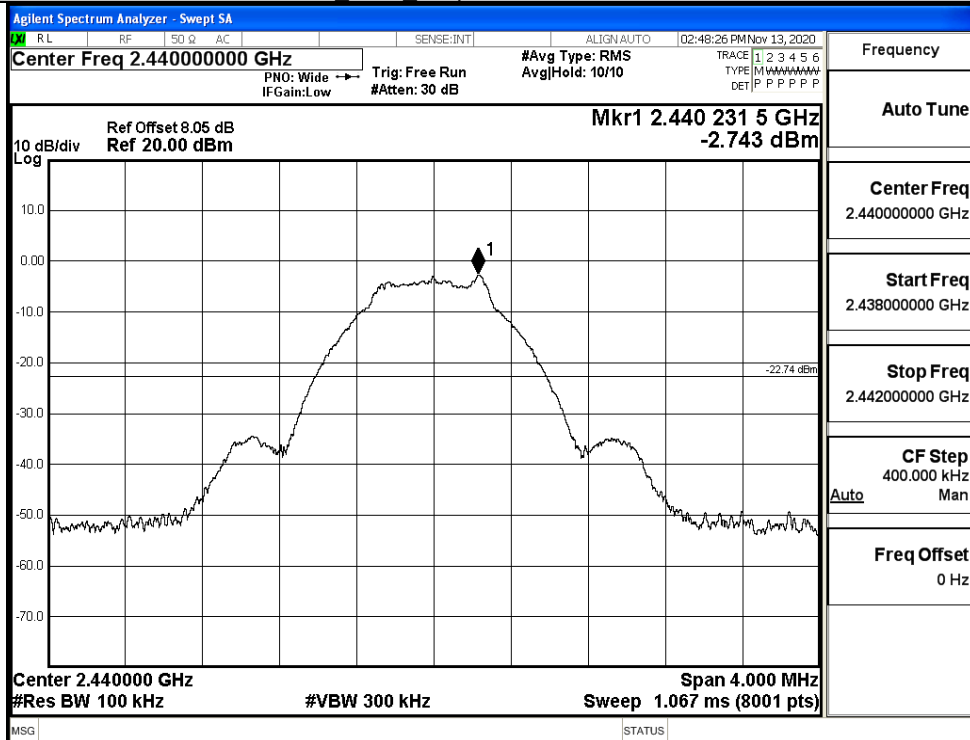
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.989	-36.676	-21.989	PASS
BT LE	MCH	-2.743	-37.113	-22.743	PASS
BT LE	HCH	-4.237	-37.027	-24.237	PASS

BT LE LCH Graphs

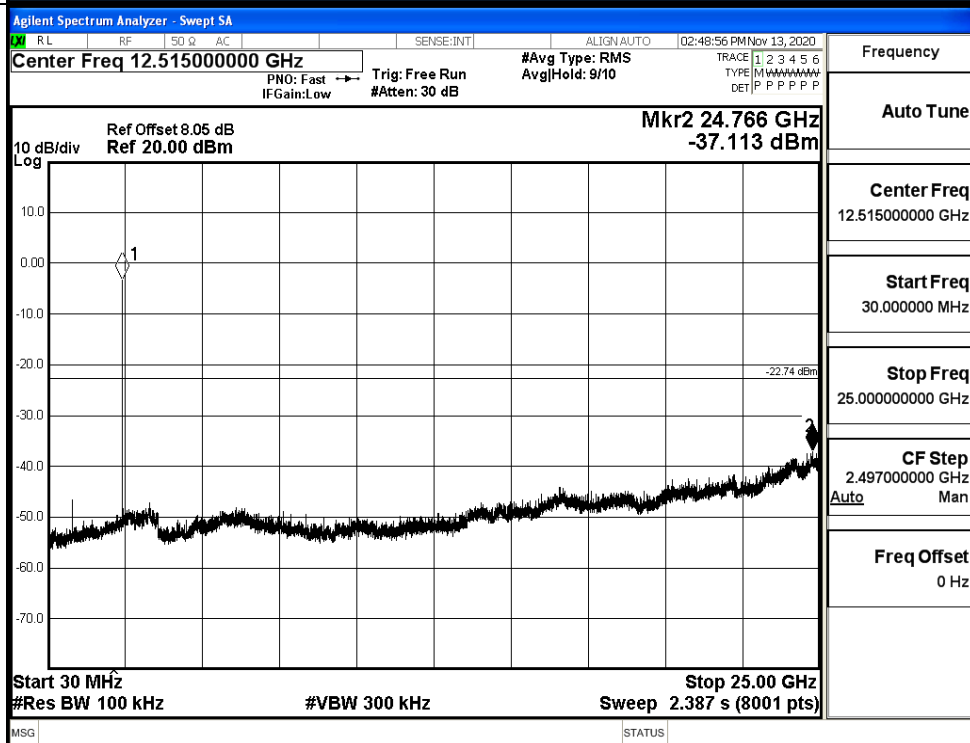


BT LE MCH Graphs

Pref/BT LE/MCH

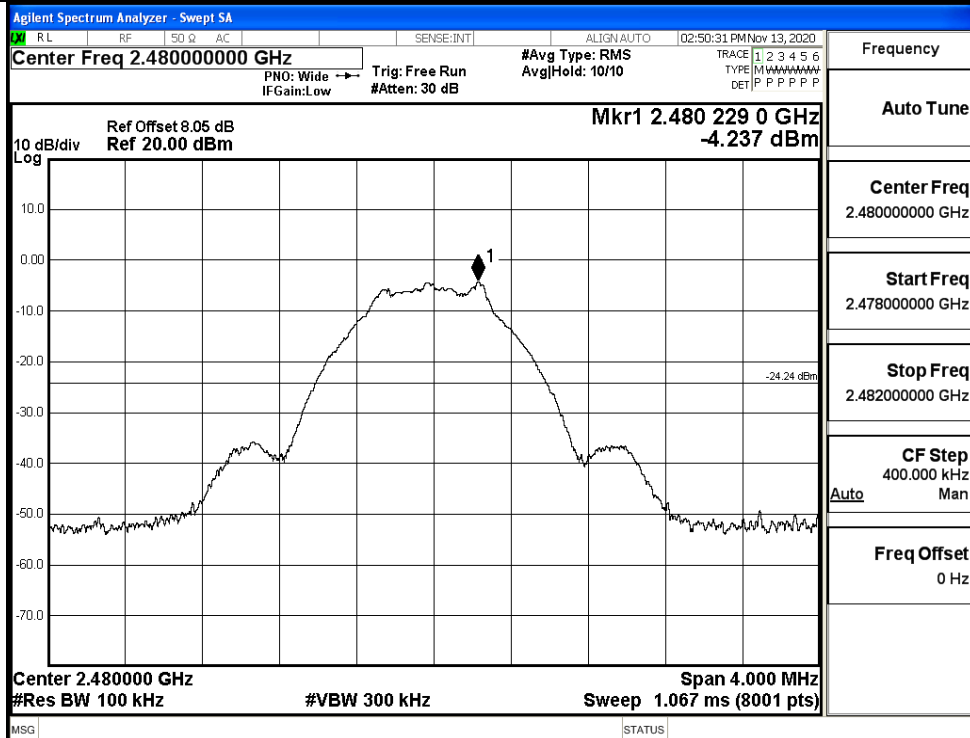


Puw/BT LE/MCH

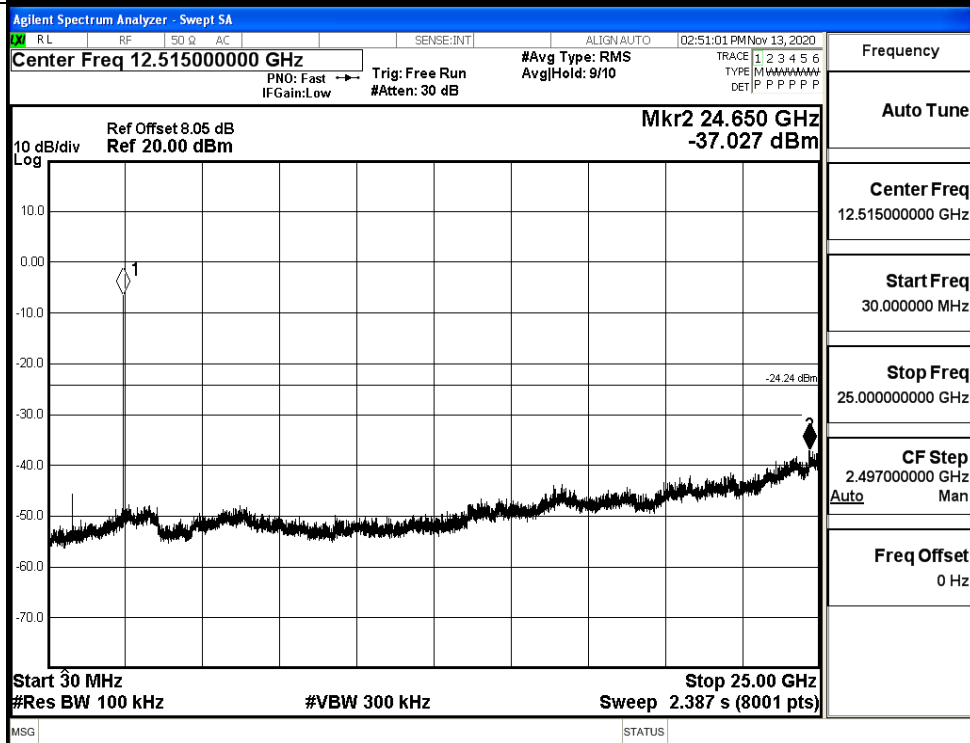


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

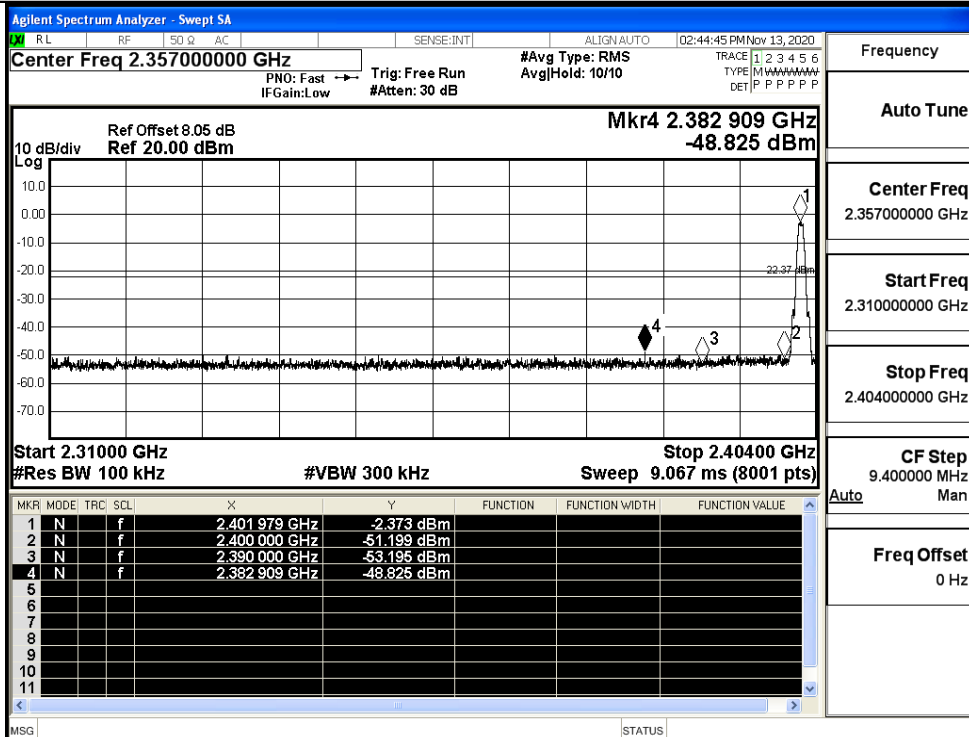


B.6 Band-edge for RF Conducted Emissions

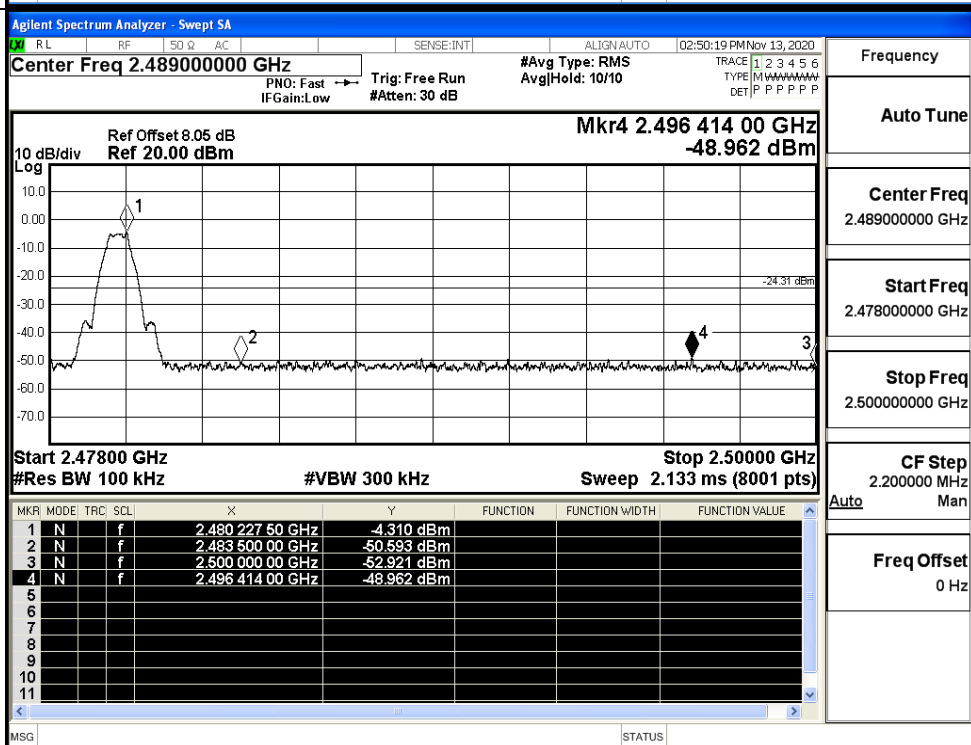
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.373	-48.825	-22.37	PASS
BT LE	HCH	-4.310	-48.962	-24.31	PASS

Test Graphs

LCH



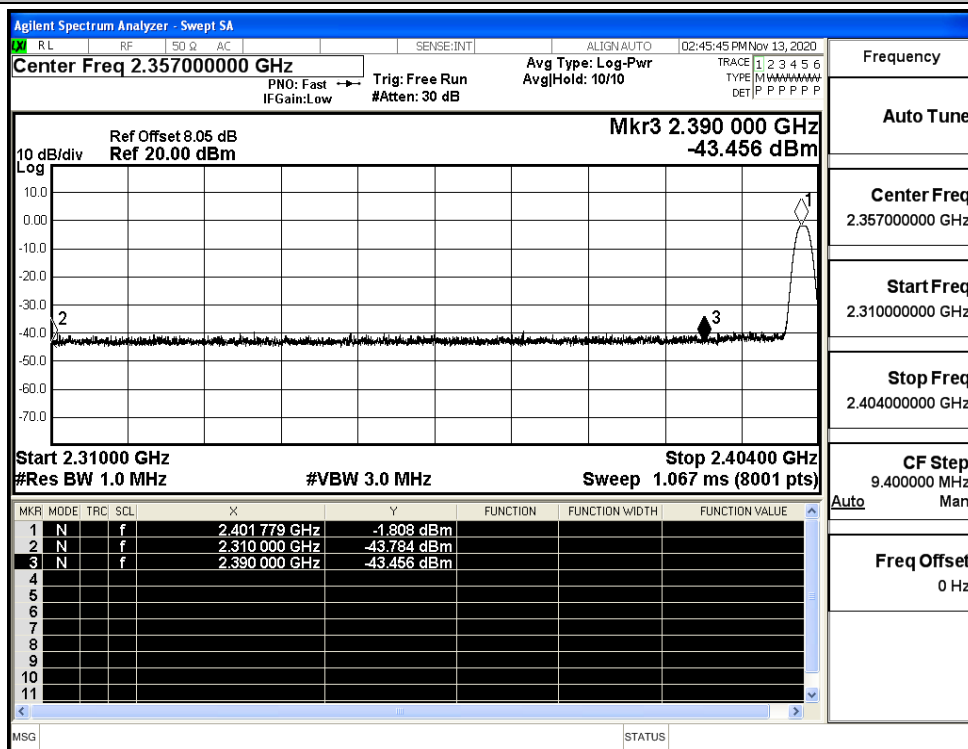
HCH



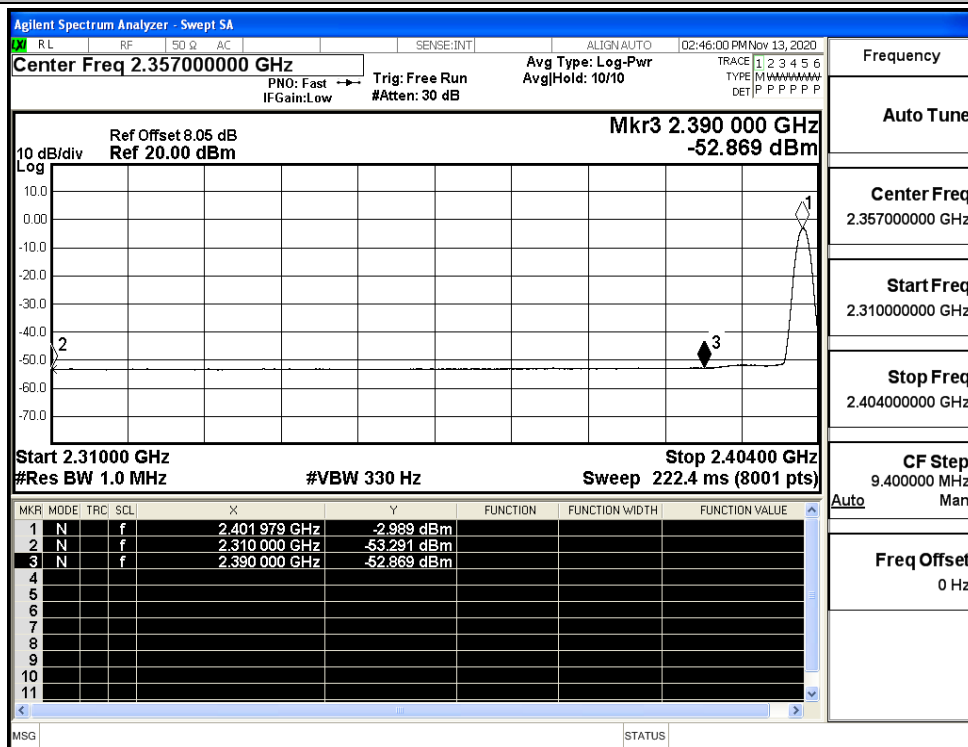
B.7 Restrict-band band-edge measurements

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	-43.78	2.0	0	53.48	PEAK	74	PASS
		Ant1	2310.0	-53.29	2.0	0	43.97	AV	54	PASS
		Ant1	2390.0	-43.46	2.0	0	53.8	PEAK	74	PASS
		Ant1	2390.0	-52.87	2.0	0	44.39	AV	54	PASS
	2480	Ant1	2483.5	-41.95	2.0	0	55.31	PEAK	74	PASS
		Ant1	2483.5	-51.99	2.0	0	45.27	AV	54	PASS
		Ant1	2500.0	-41.41	2.0	0	55.85	PEAK	74	PASS
		Ant1	2500.0	-52.29	2.0	0	44.97	AV	54	PASS

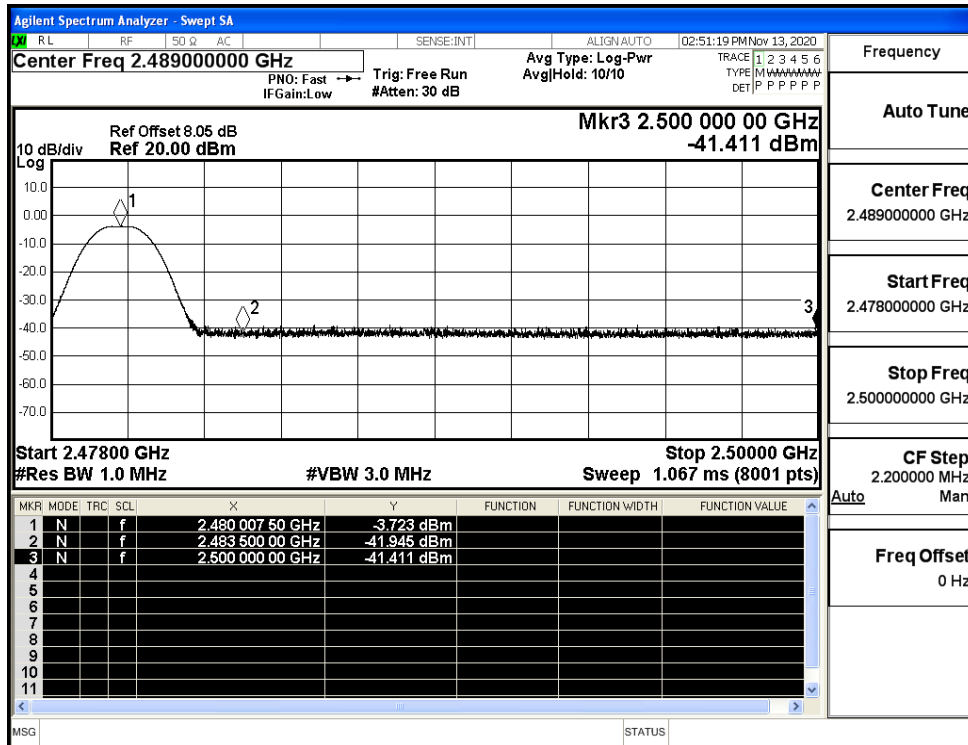
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

