

Appendix B

RF Test Data for BT V4.1(Conducted Measurement)

Product Name: Home Karaoke Party Speaker

Trade Mark: gemini

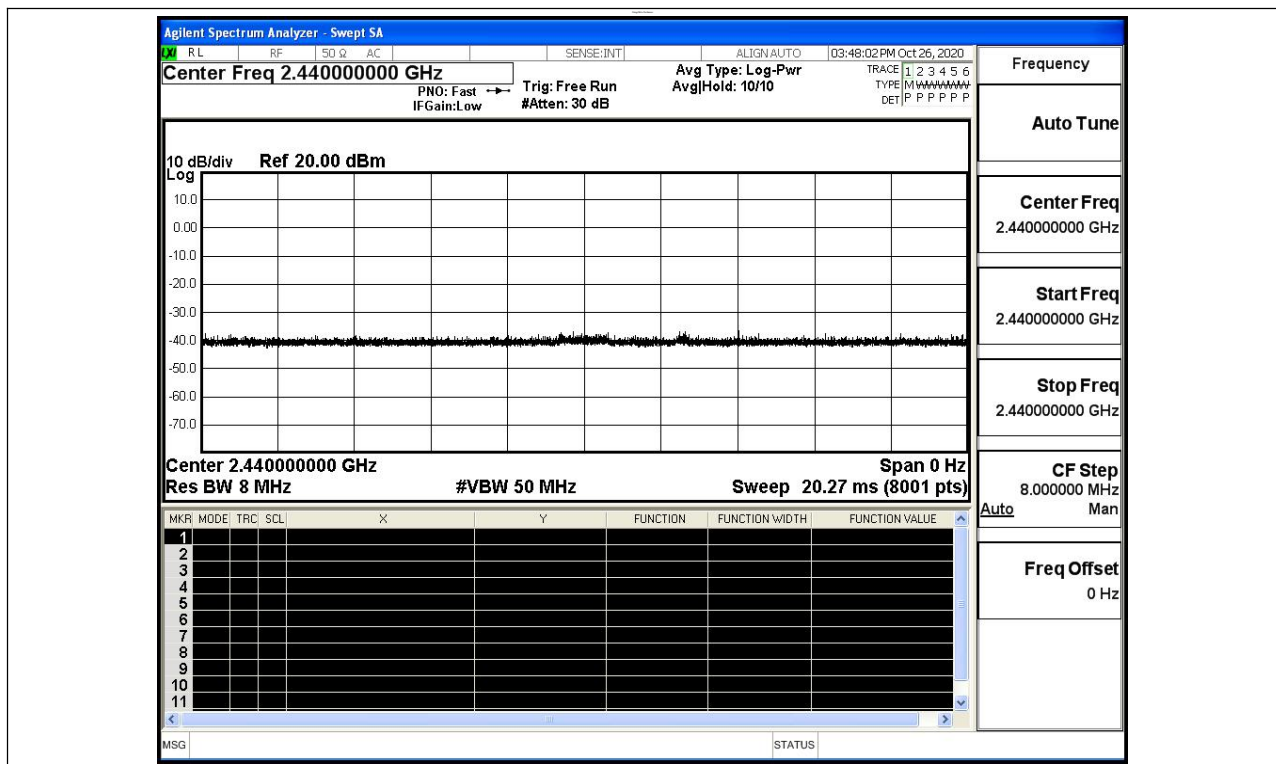
Test Model: GPK-800

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

B.1 Duty Cycle

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

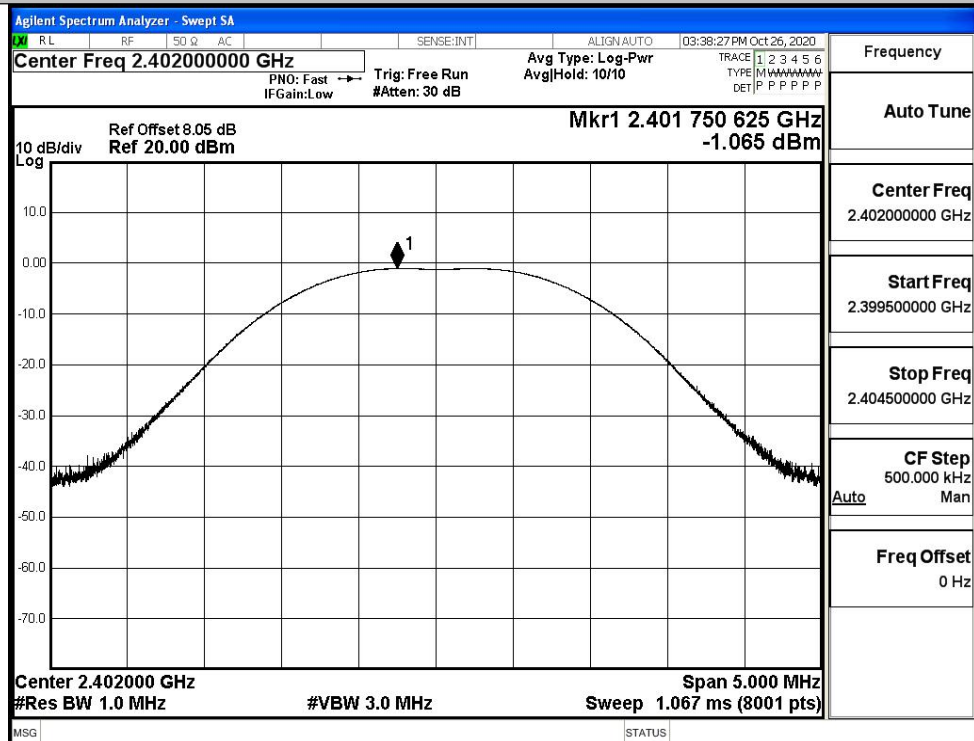


B.2 Maximum Conducted Peak Output Power

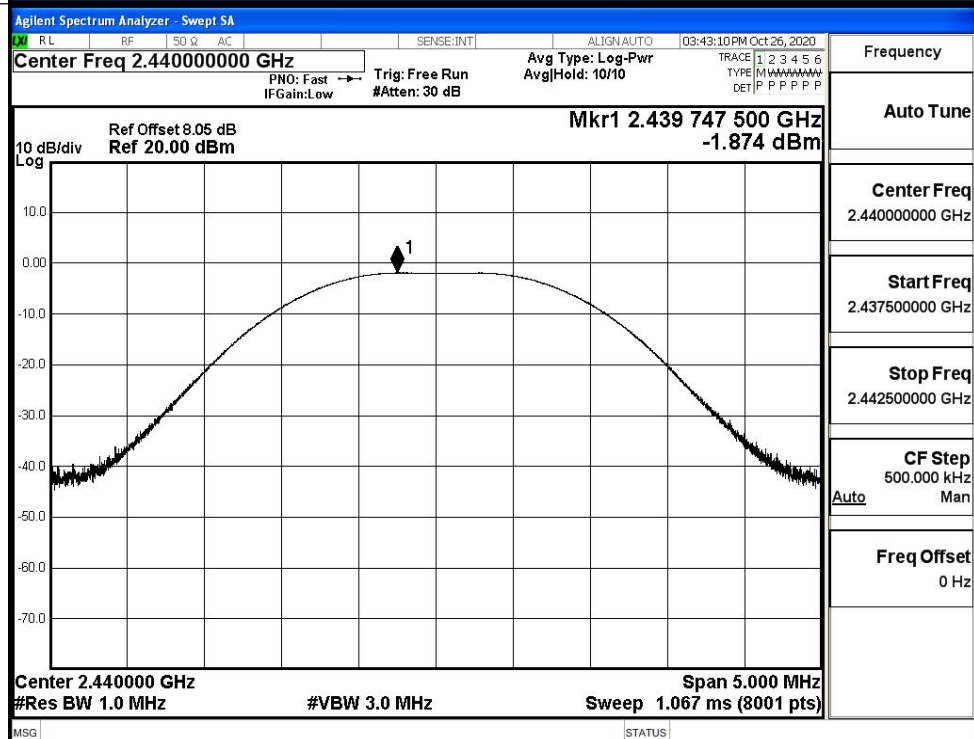
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.065	30	PASS
BT LE	MCH	-1.874	30	PASS
BT LE	HCH	-2.516	30	PASS

Test Graphs

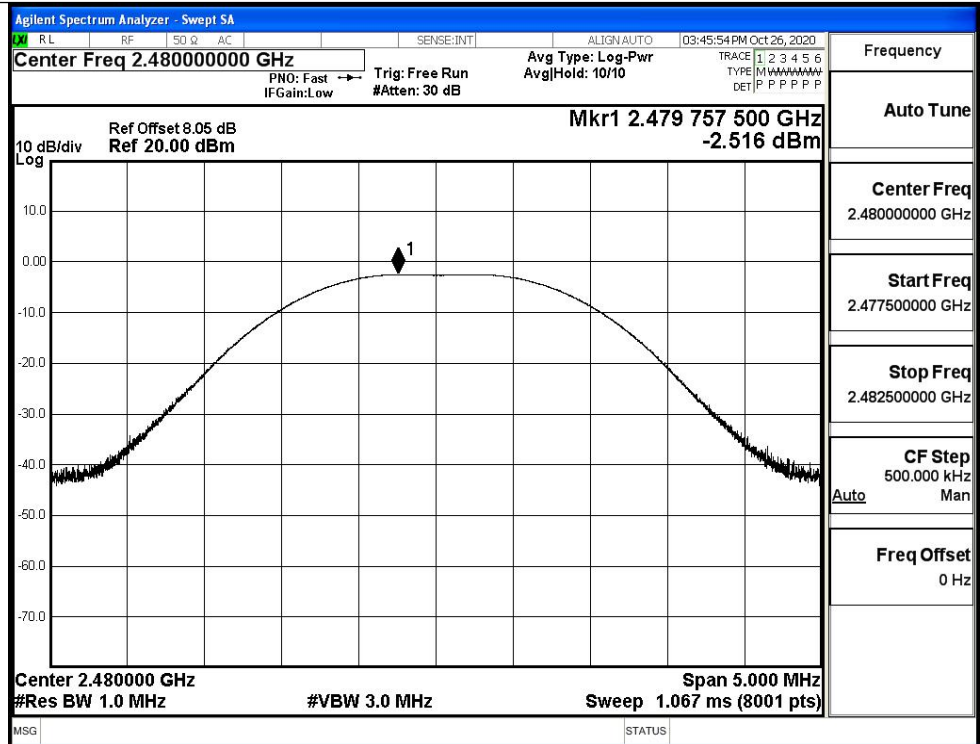
LCH



MCH



HCH

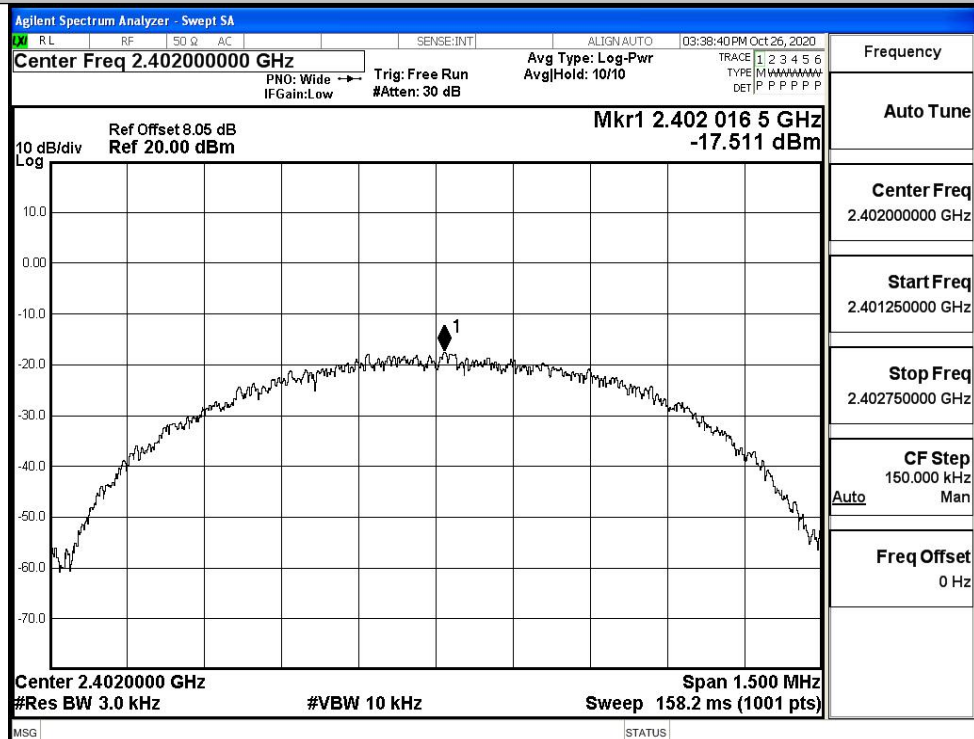


B.3 Maximum Power Spectral Density

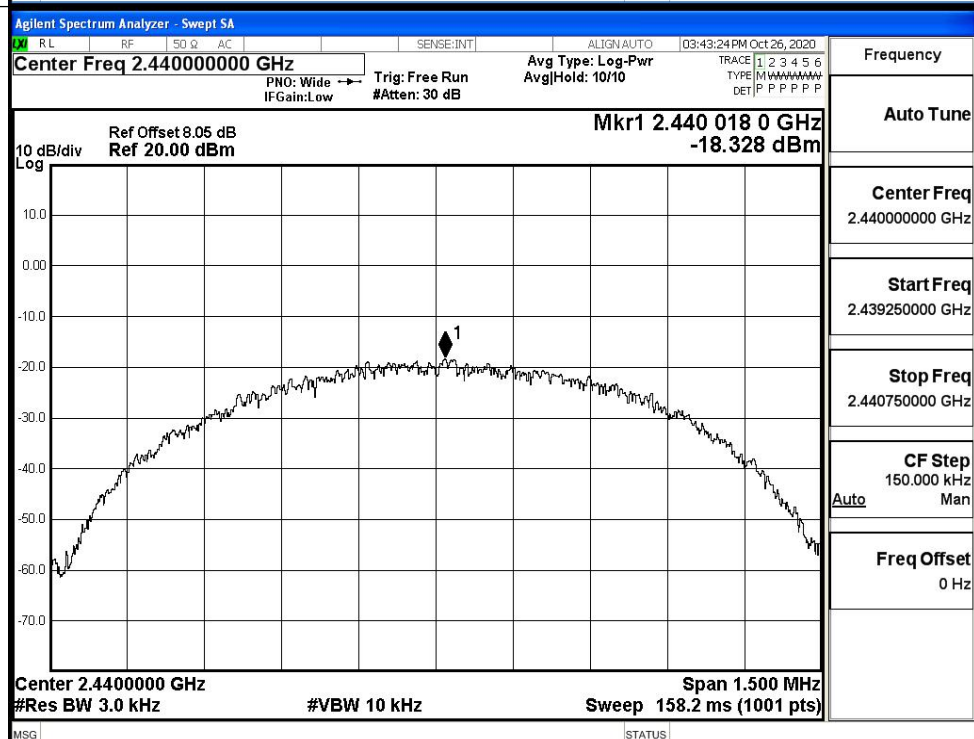
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.511	8	PASS
BT LE	MCH	-18.328	8	PASS
BT LE	HCH	-18.676	8	PASS

Test Graphs

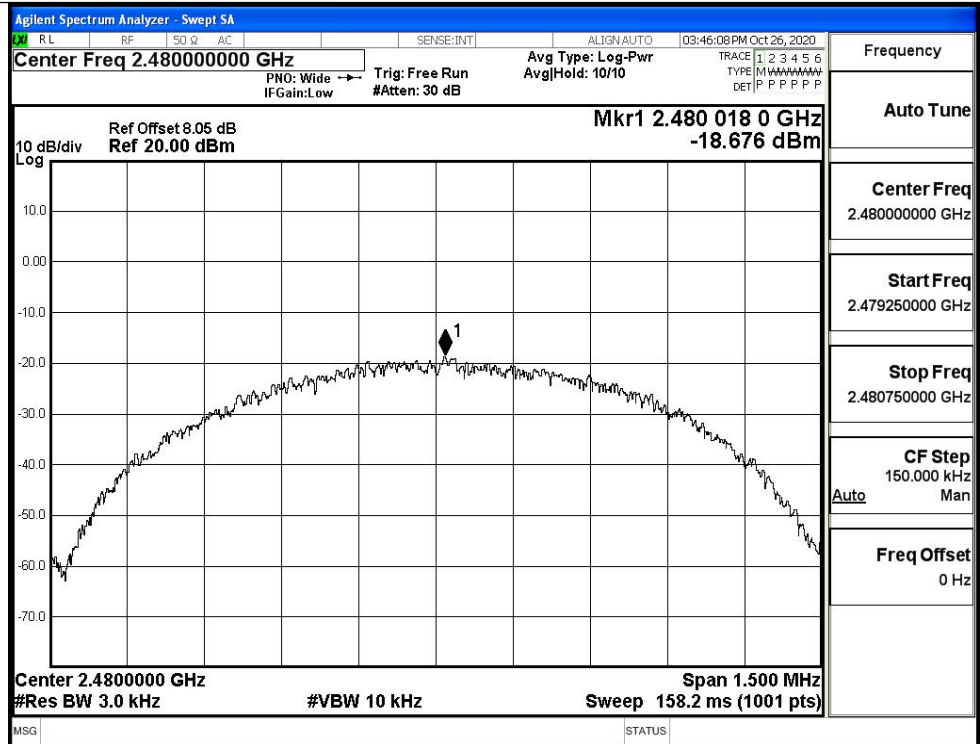
LCH



MCH



HCH

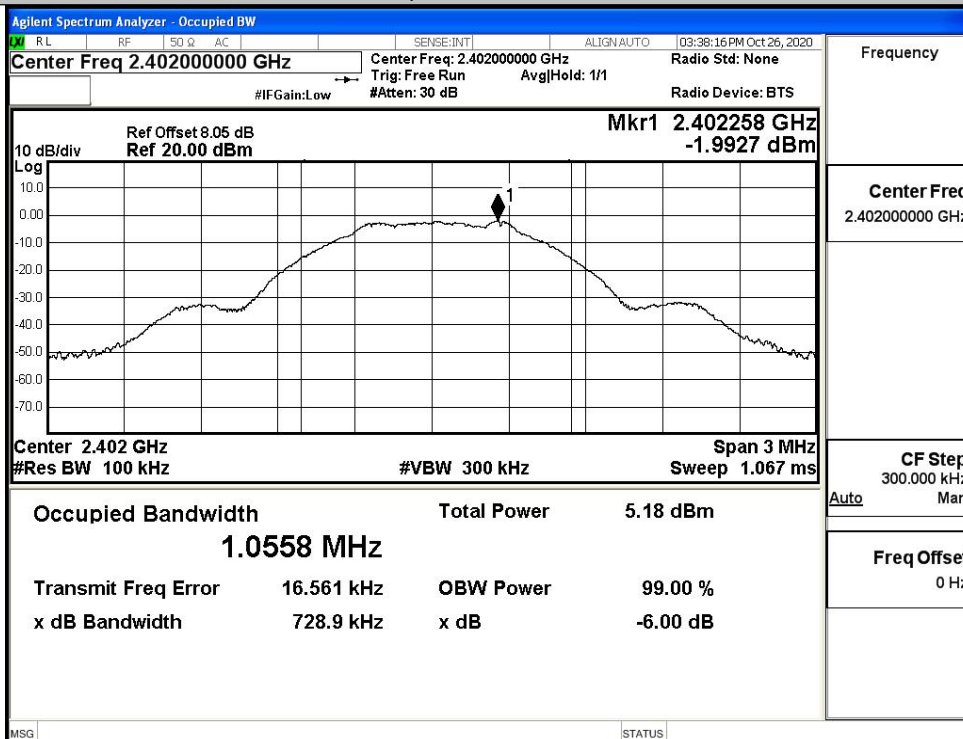


B.4 6dB Bandwidth

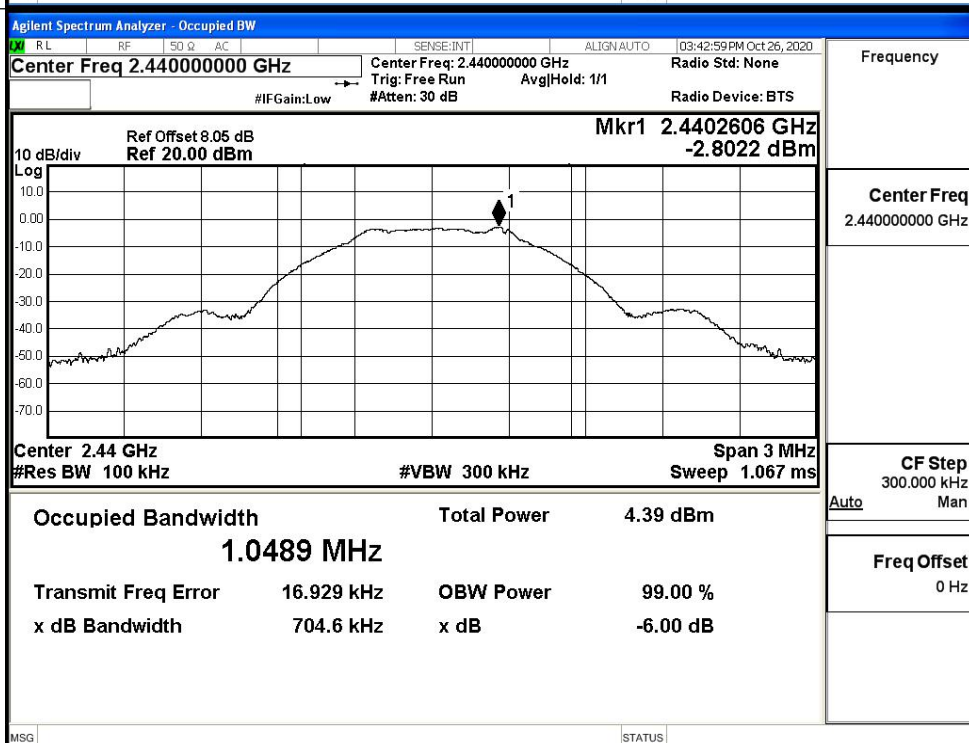
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7289	≥ 0.5	PASS
BT LE	MCH	0.7046	≥ 0.5	PASS
BT LE	HCH	0.7239	≥ 0.5	PASS

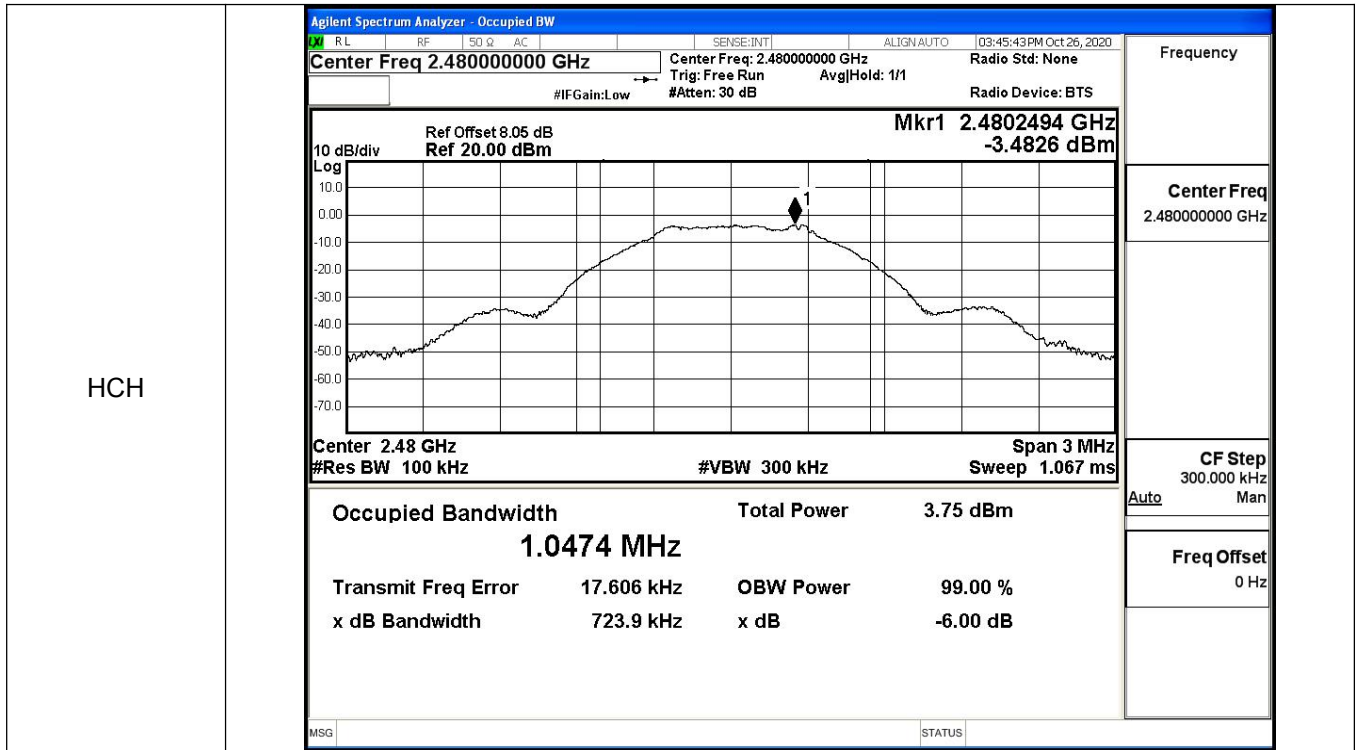
Test Graphs

LCH



MCH



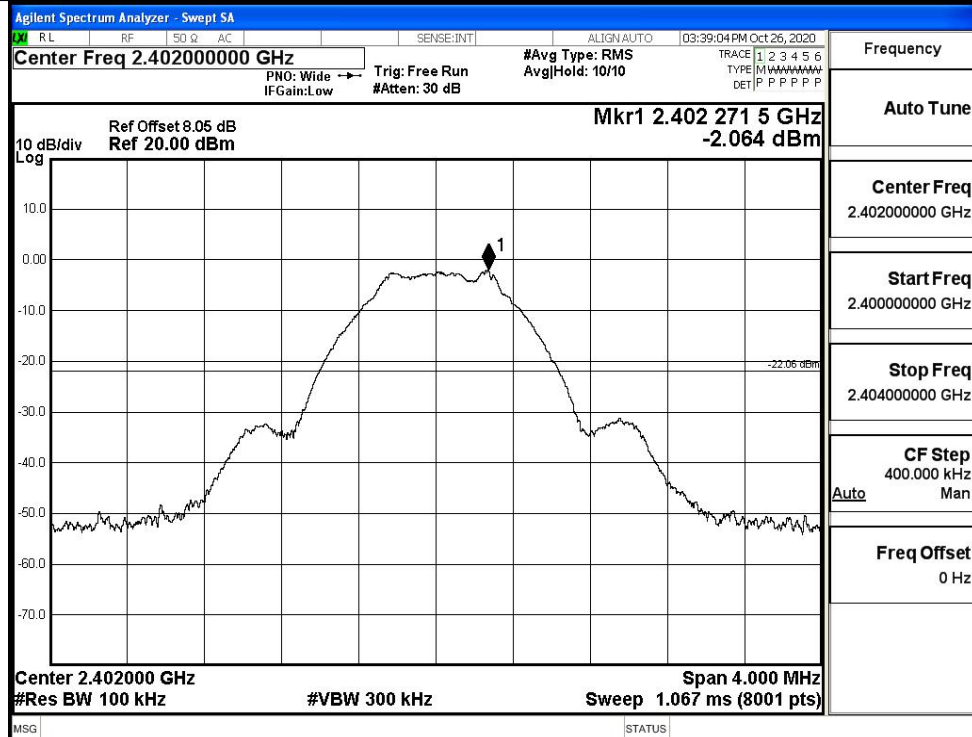


B.5 RF Conducted Spurious Emissions

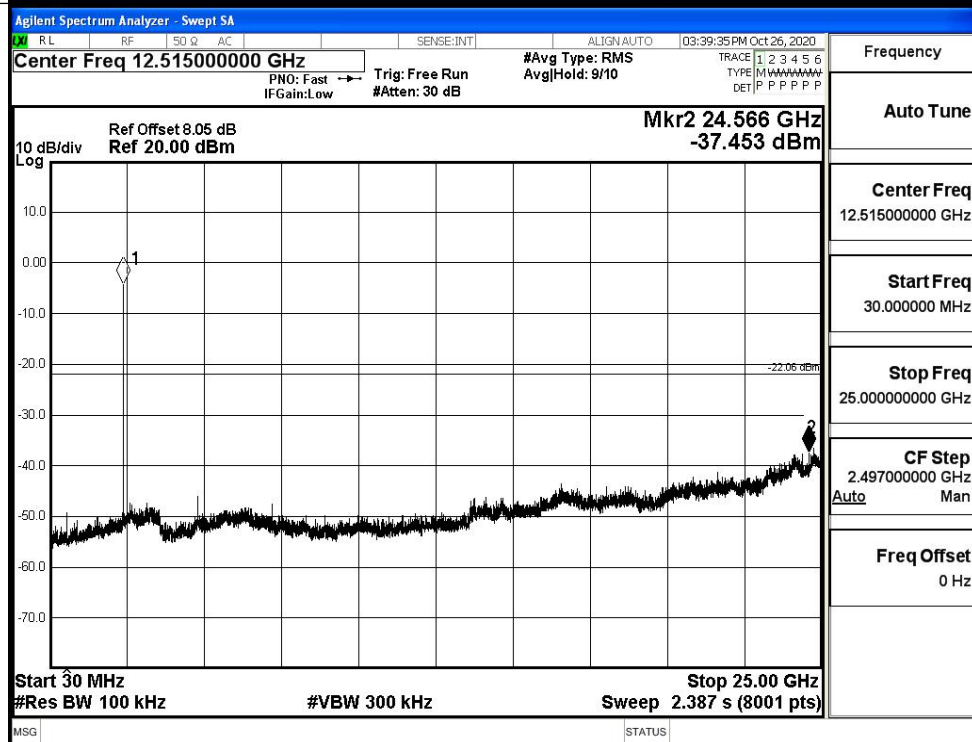
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.064	-37.453	-22.064	PASS
BT LE	MCH	-2.829	-36.508	-22.829	PASS
BT LE	HCH	-3.419	-36.548	-23.419	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

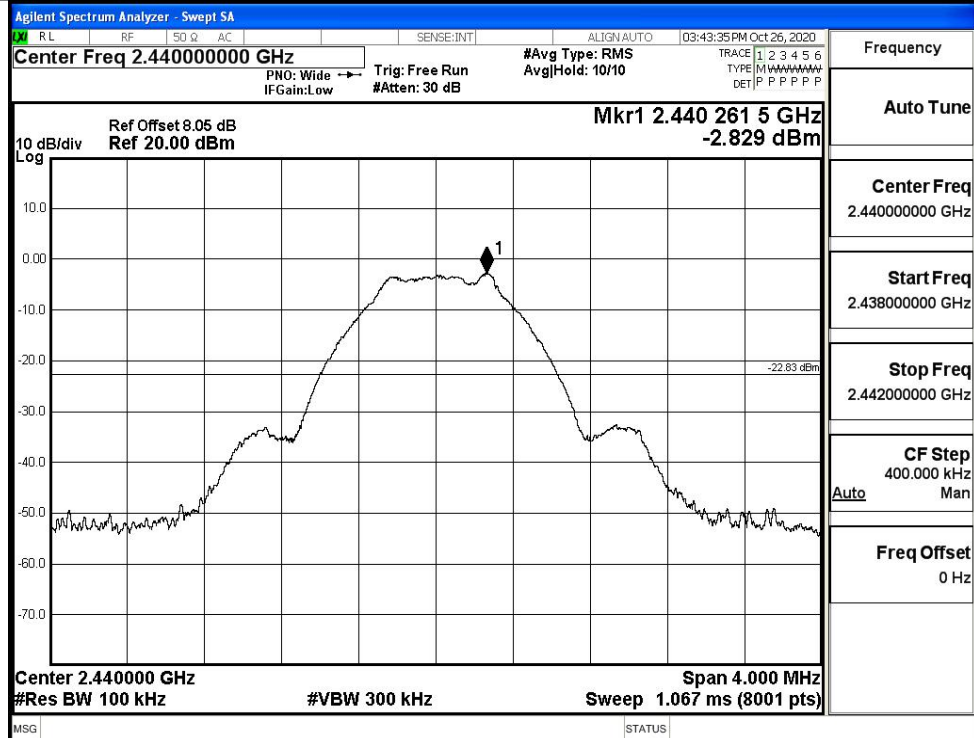


Puw/BT LE/LCH

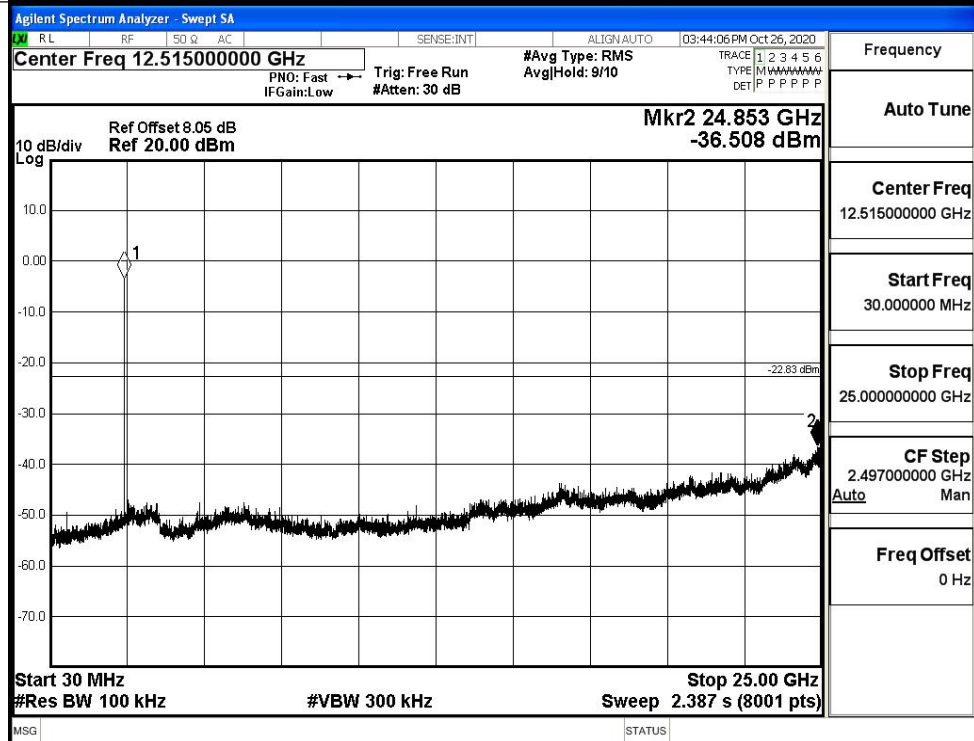


BT LE MCH Graphs

Pref/BT LE/MCH

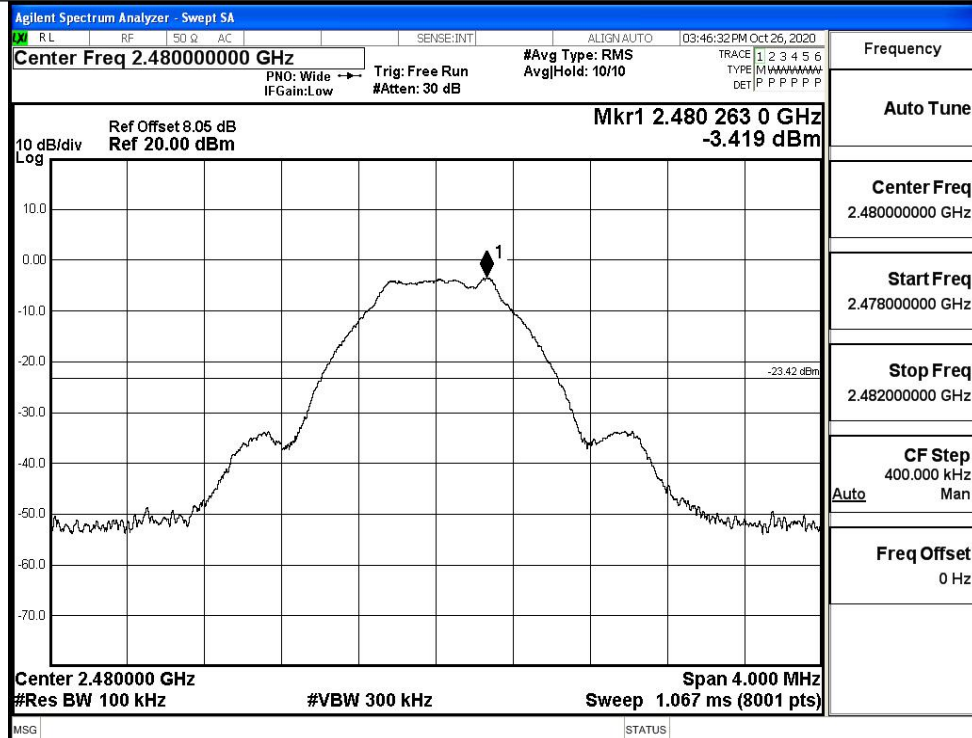


Puw/BT LE/MCH

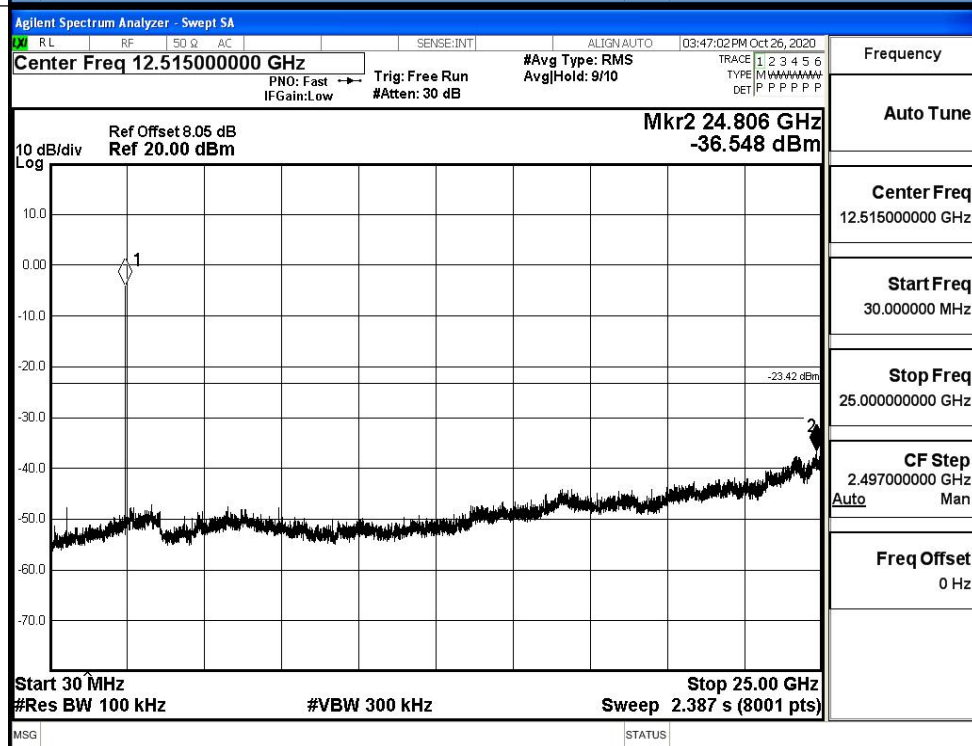


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

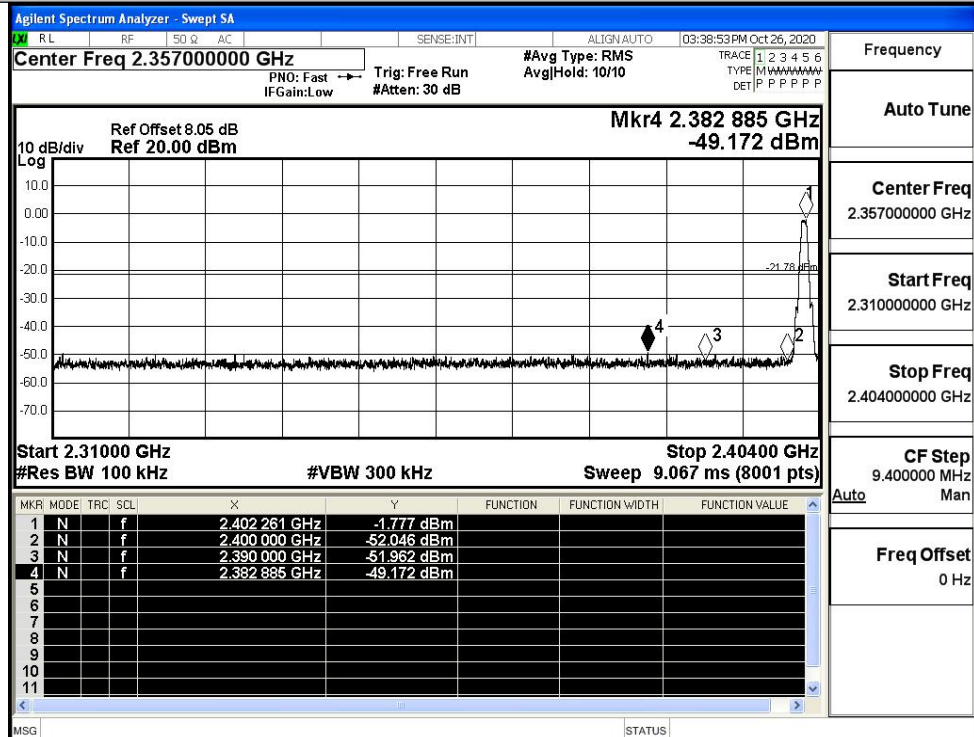


B.6 Band-edge for RF Conducted Emissions

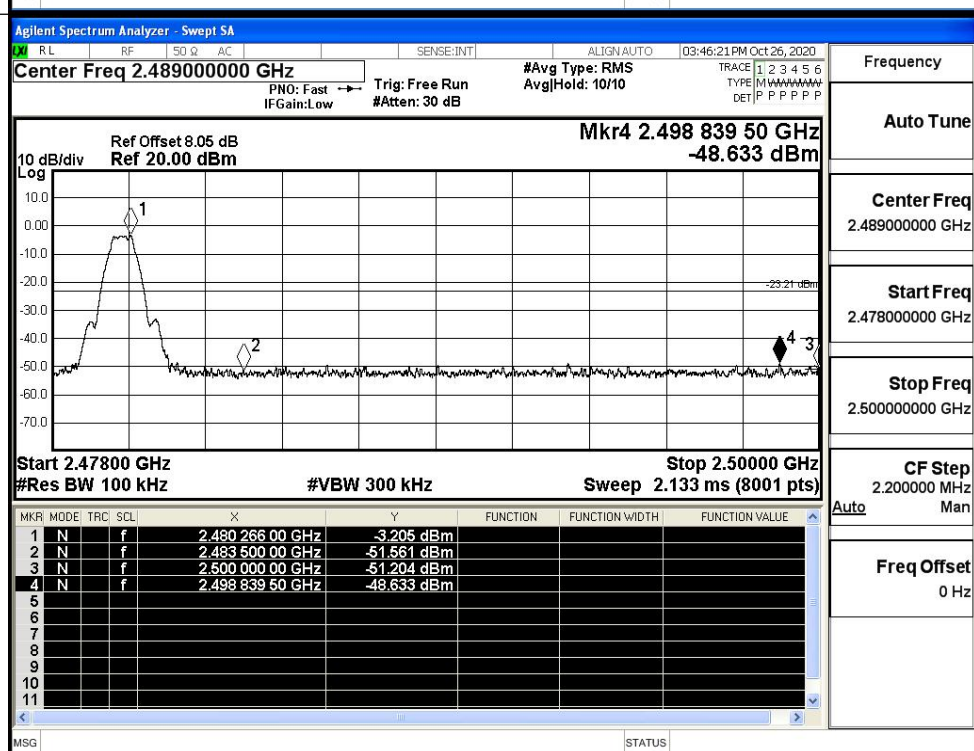
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.777	-49.172	-21.78	PASS
BT LE	HCH	-3.205	-48.633	-23.21	PASS

Test Graphs

LCH



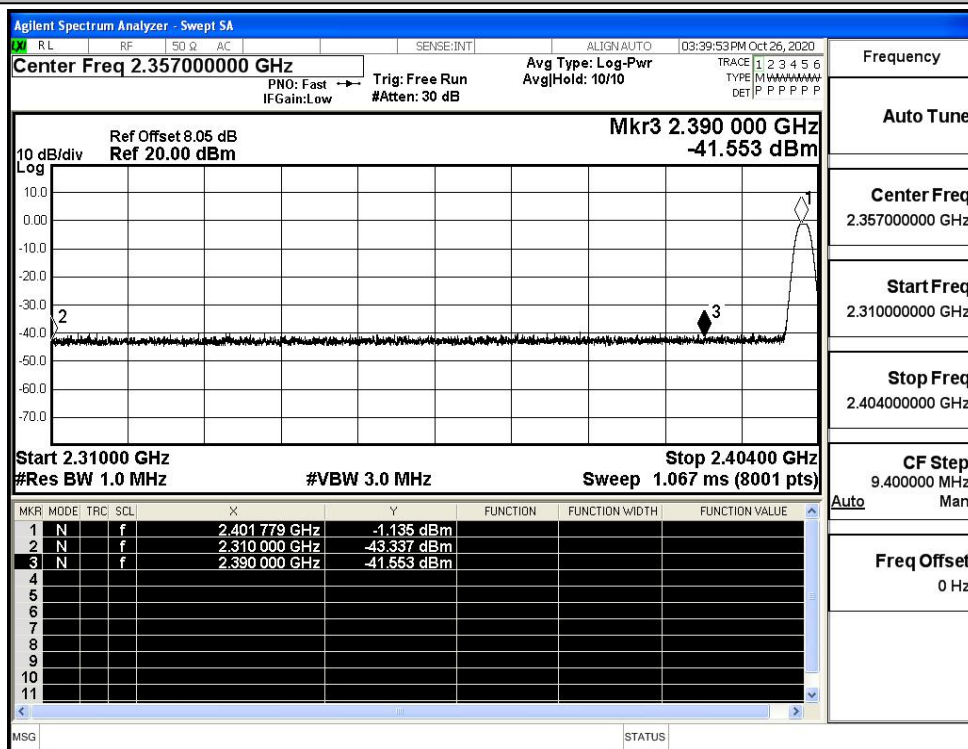
HCH



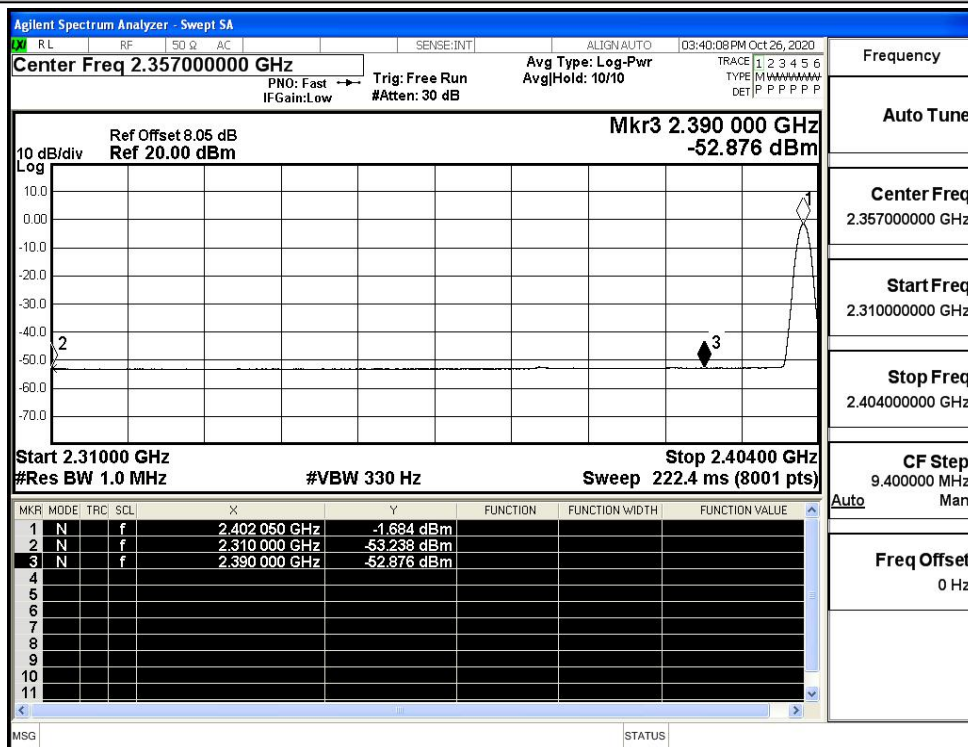
B.7 Restrict-band band-edge measurements

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	-43.34	2.0	0	53.89	PEAK	74	PASS
		Ant1	2310.0	-53.24	2.0	0	43.99	AV	54	PASS
		Ant1	2390.0	-41.55	2.0	0	55.68	PEAK	74	PASS
		Ant1	2390.0	-52.88	2.0	0	44.35	AV	54	PASS
	2480	Ant1	2483.5	-41.50	2.0	0	55.73	PEAK	74	PASS
		Ant1	2483.5	-52.34	2.0	0	44.89	AV	54	PASS
		Ant1	2500.0	-42.21	2.0	0	55.02	PEAK	74	PASS
		Ant1	2500.0	-52.25	2.0	0	44.98	AV	54	PASS

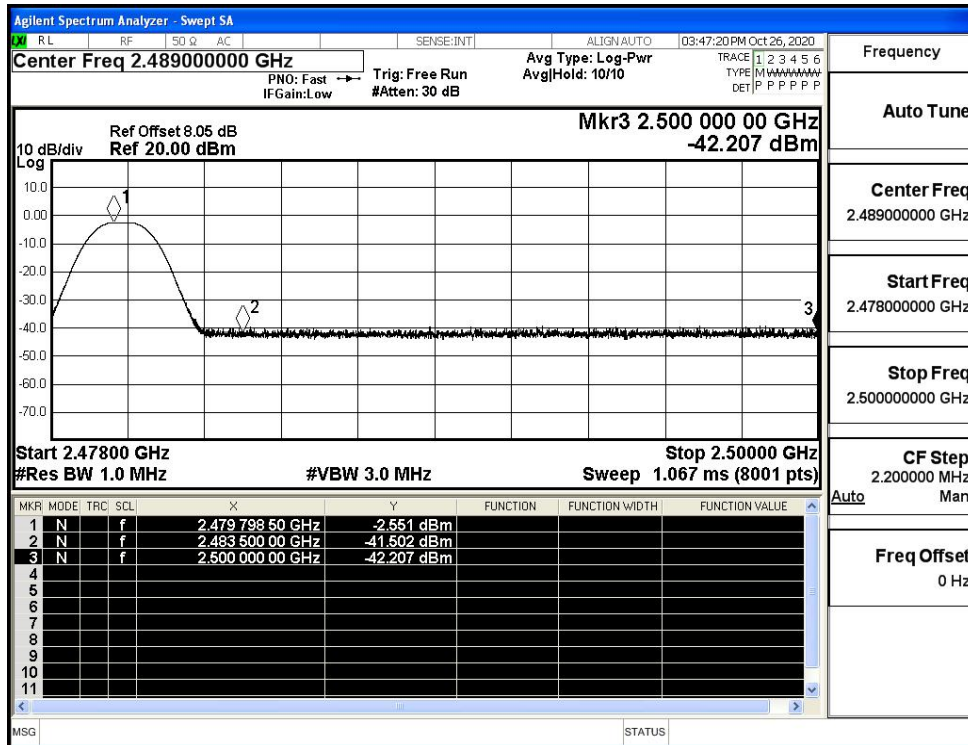
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

