

Appendix H

RF Test Data for 2.4G (Conducted Measurement)

Product Name: Legends Ultimate Home Arcade

Trade Mark: N/A

Test Model: HA8801S

Environmental Conditions

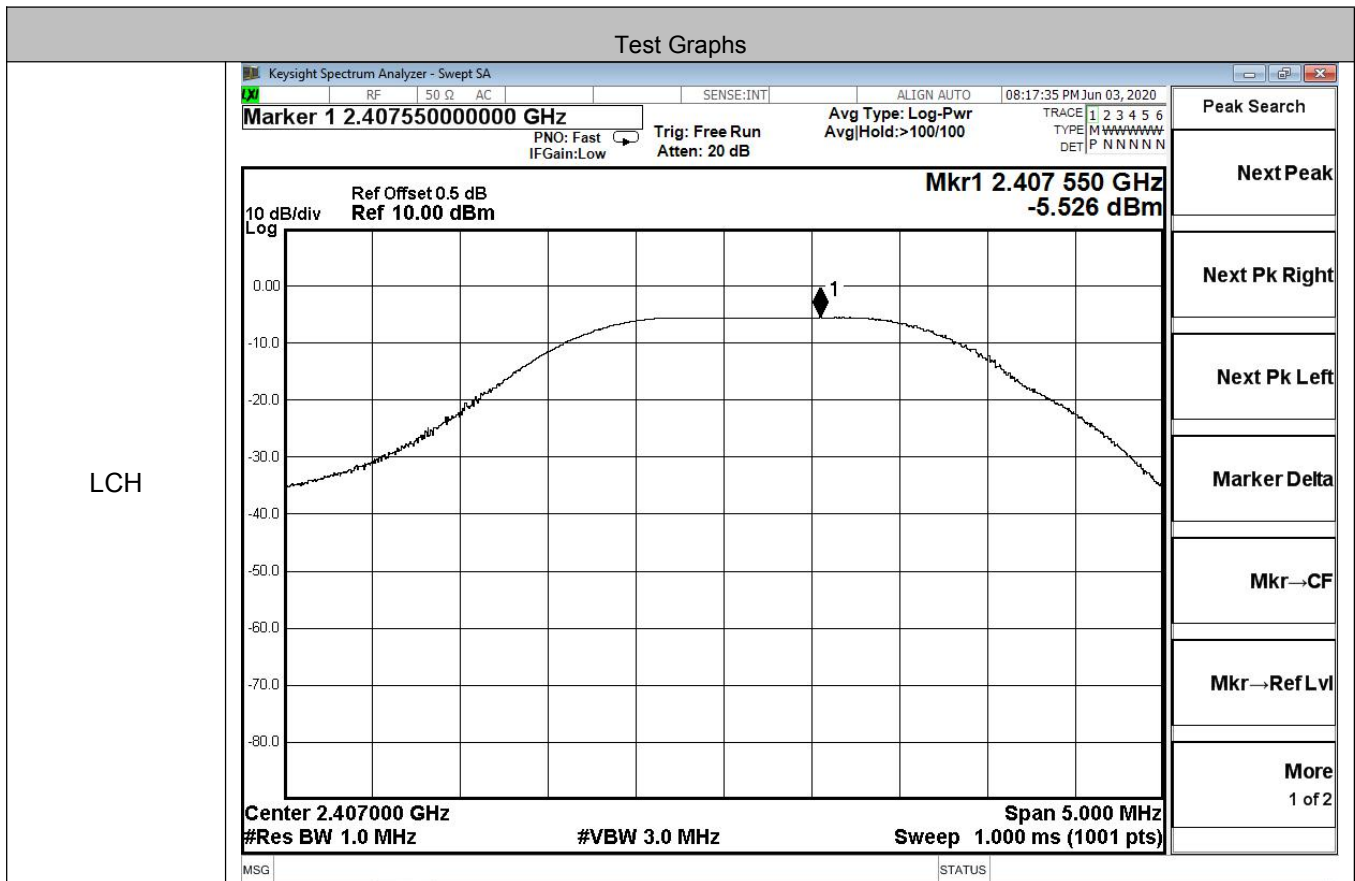
Temperature:	24.2 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Tom.Liu

H.1 Duty Cycle

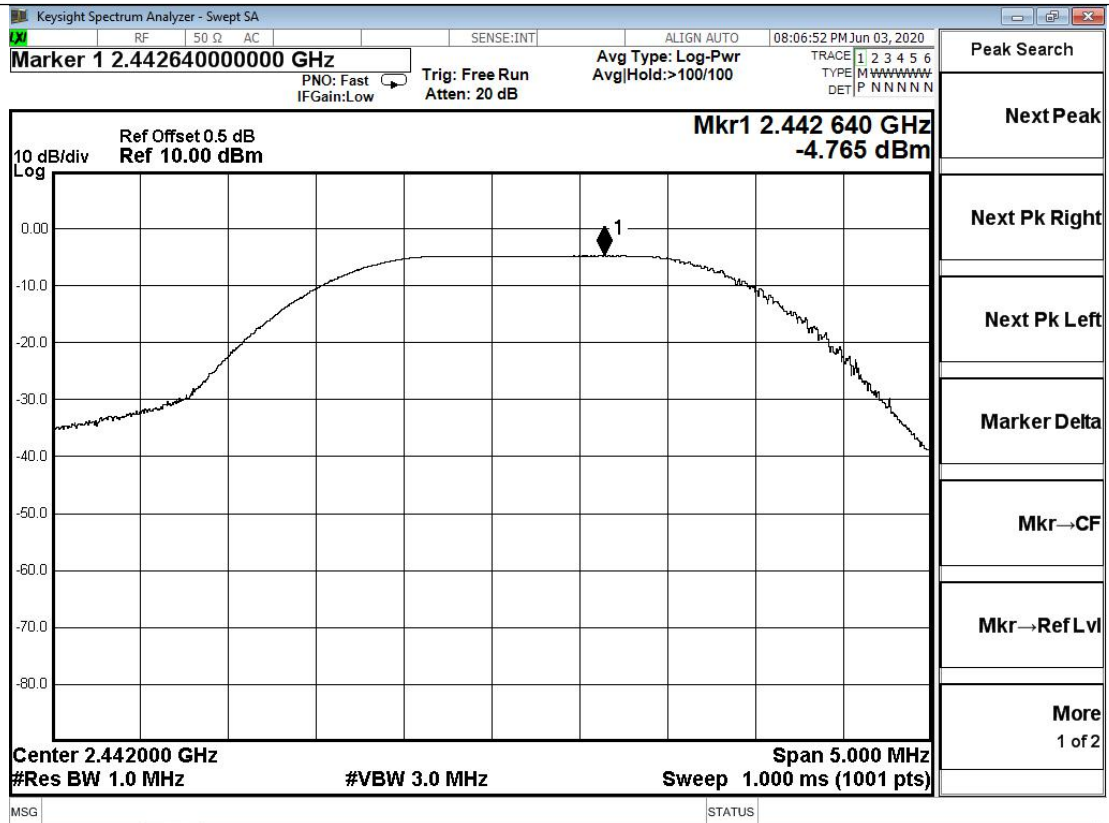
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
GFSK	2442	Ant1	100	PASS

H.2 Maximum Conducted Peak Output Power

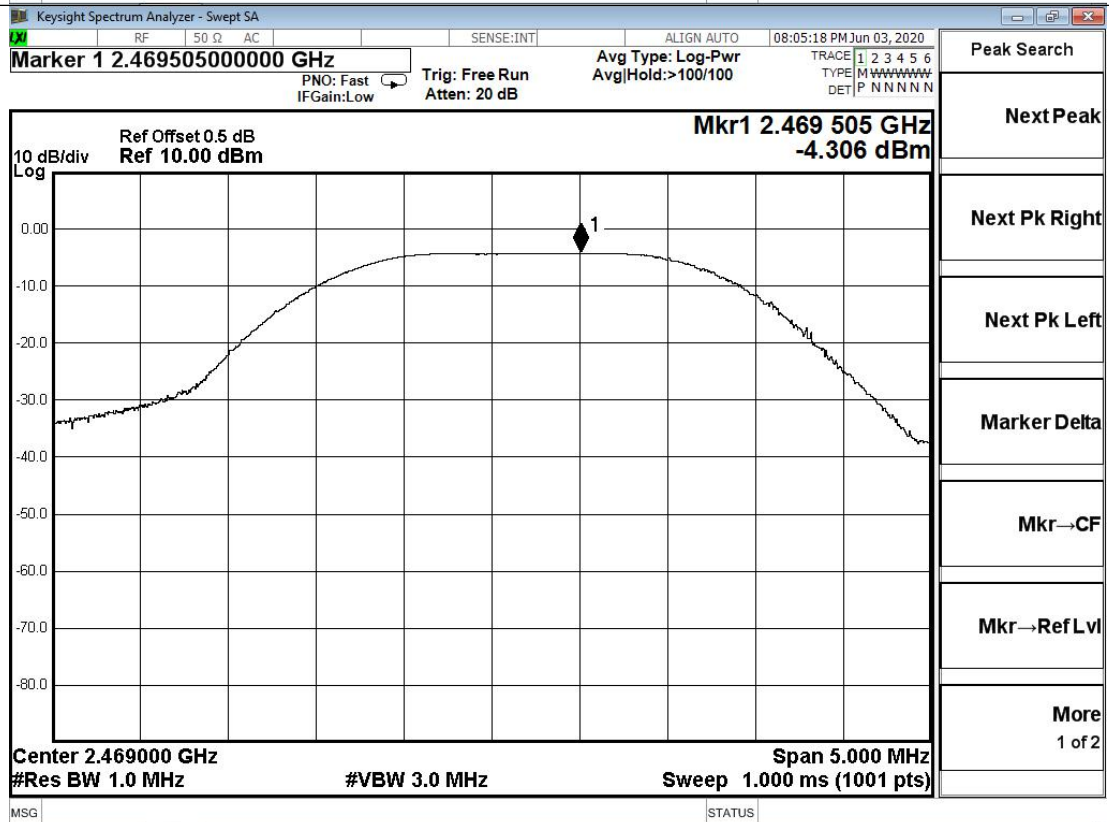
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
GFSK	LCH	-5.526	30	PASS
GFSK	MCH	-4.765	30	PASS
GFSK	HCH	-4.306	30	PASS



MCH



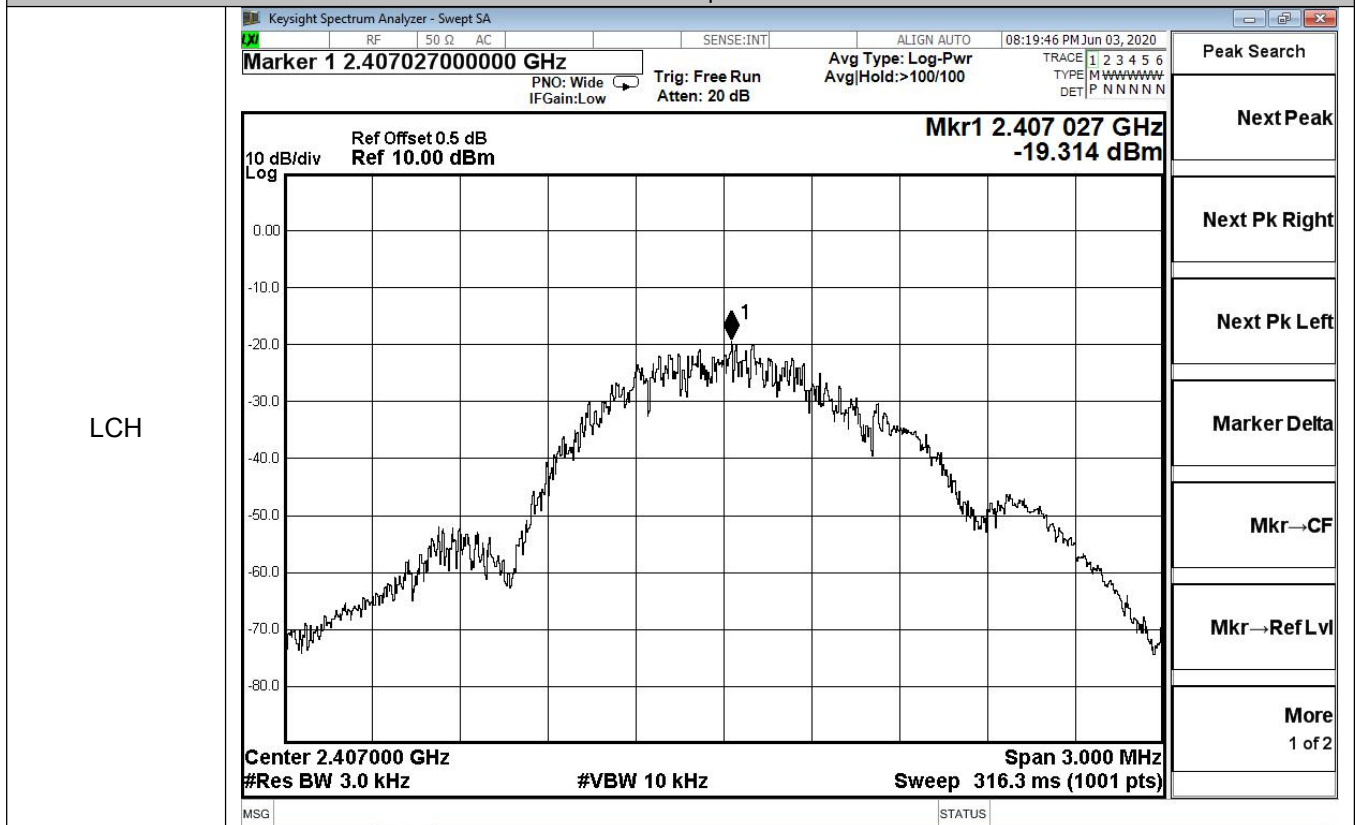
HCH



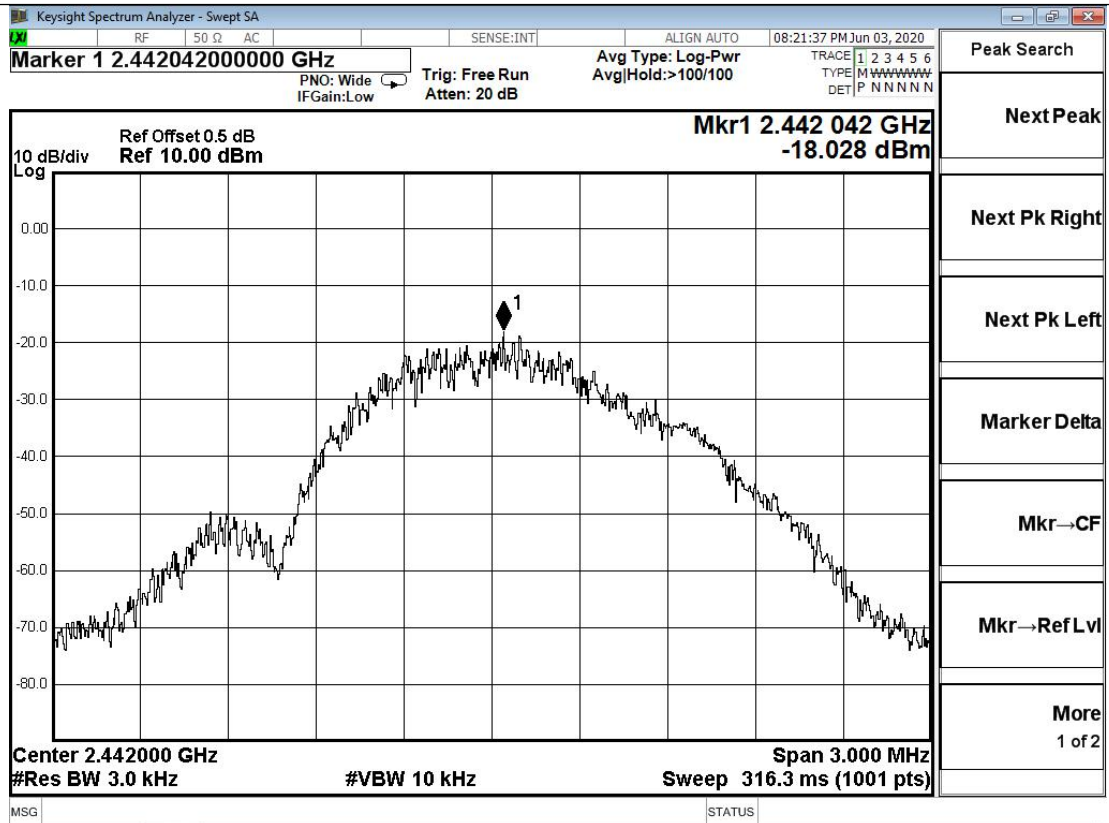
H.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
GFSK	LCH	-19.314	8	PASS
GFSK	MCH	-18.028	8	PASS
GFSK	HCH	-17.785	8	PASS

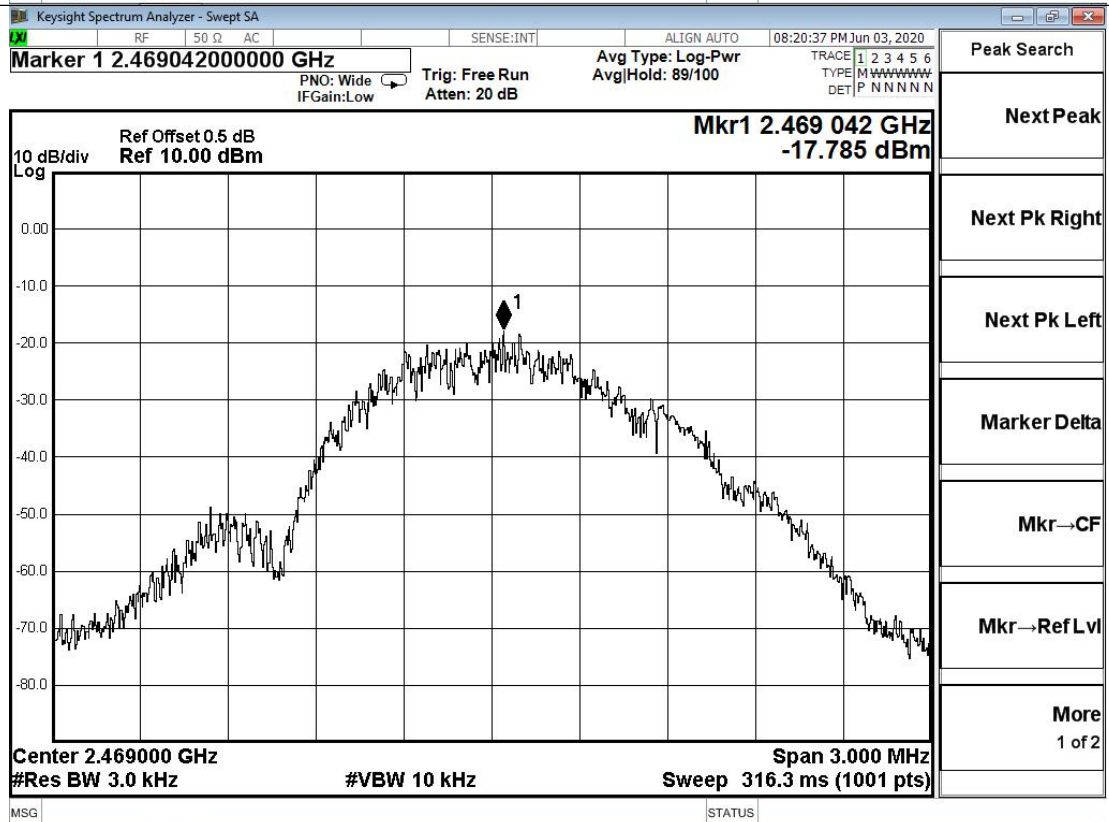
Test Graphs



MCH

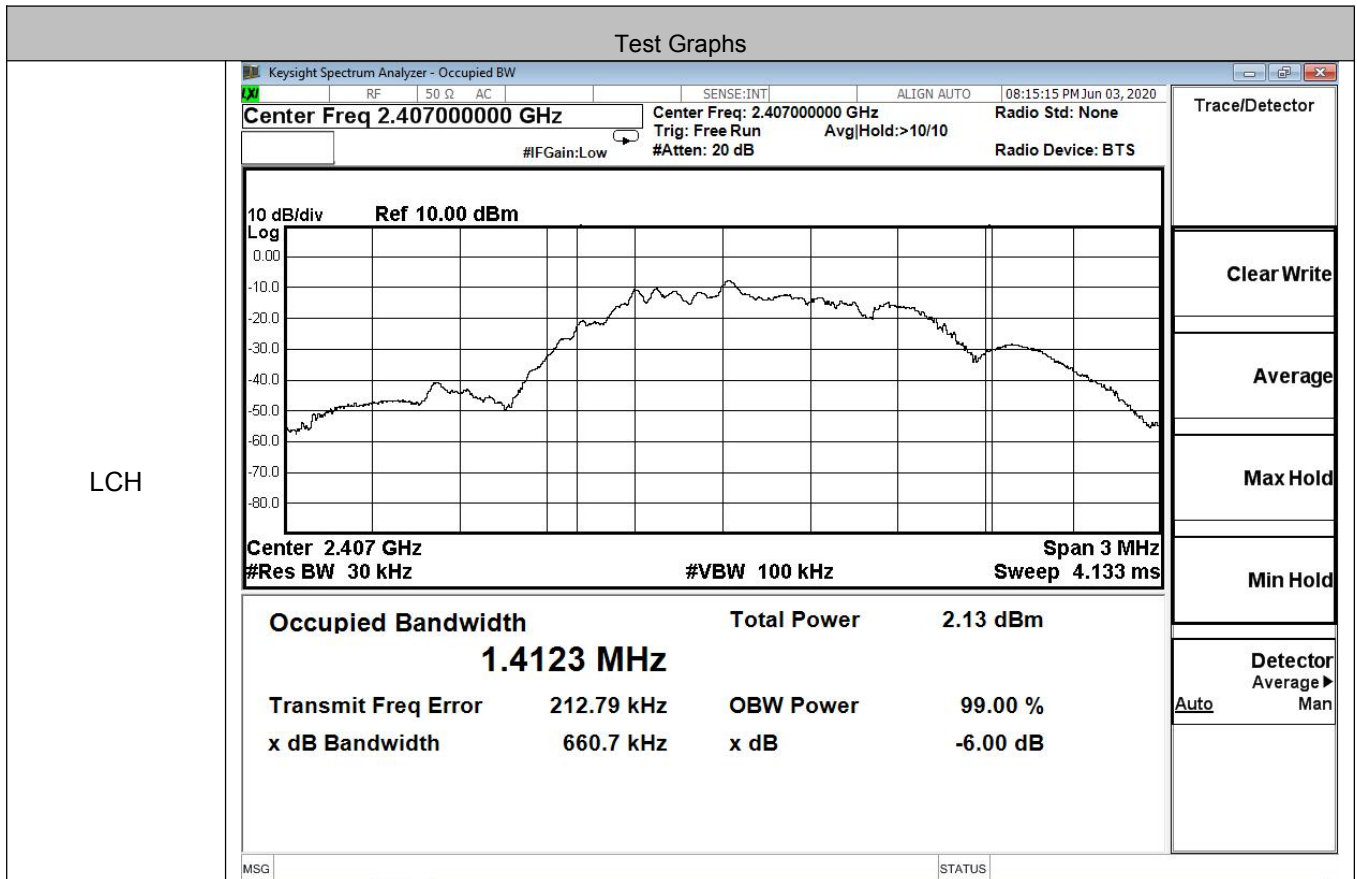


HCH

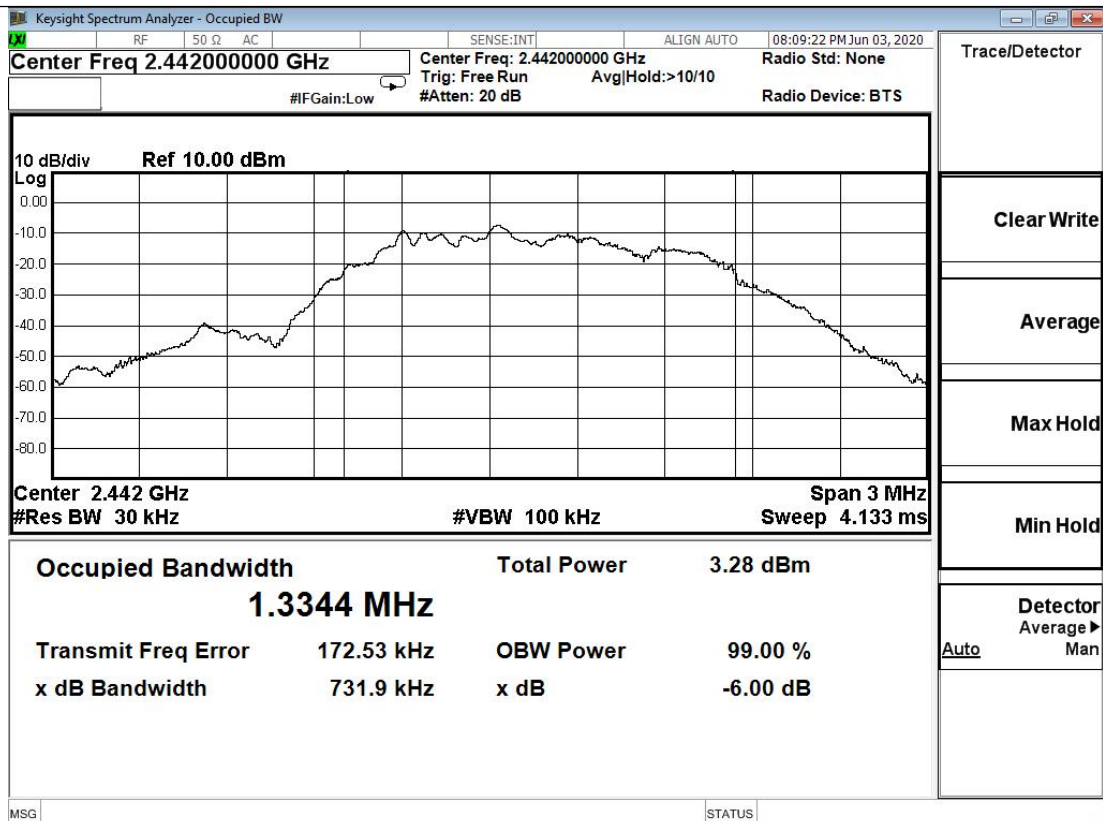


H.4 6dB Bandwidth

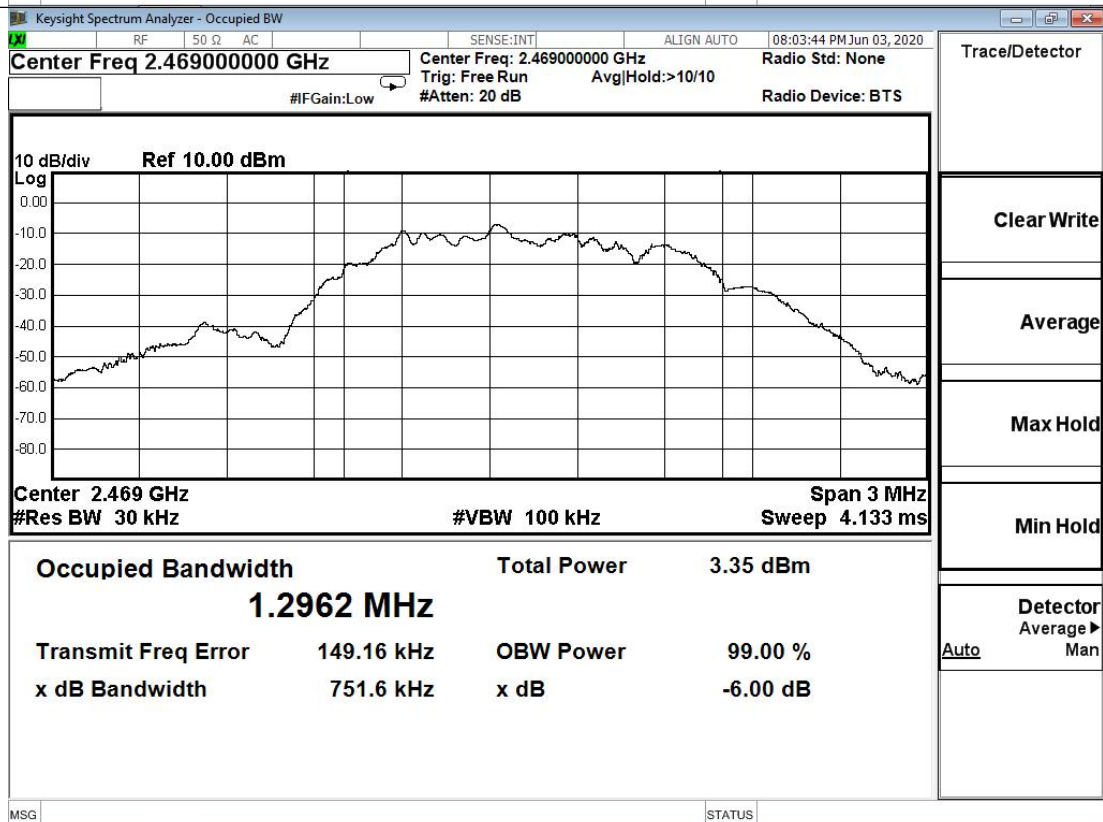
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.6607	≥ 0.5	PASS
GFSK	MCH	0.7319	≥ 0.5	PASS
GFSK	HCH	0.7516	≥ 0.5	PASS



MCH

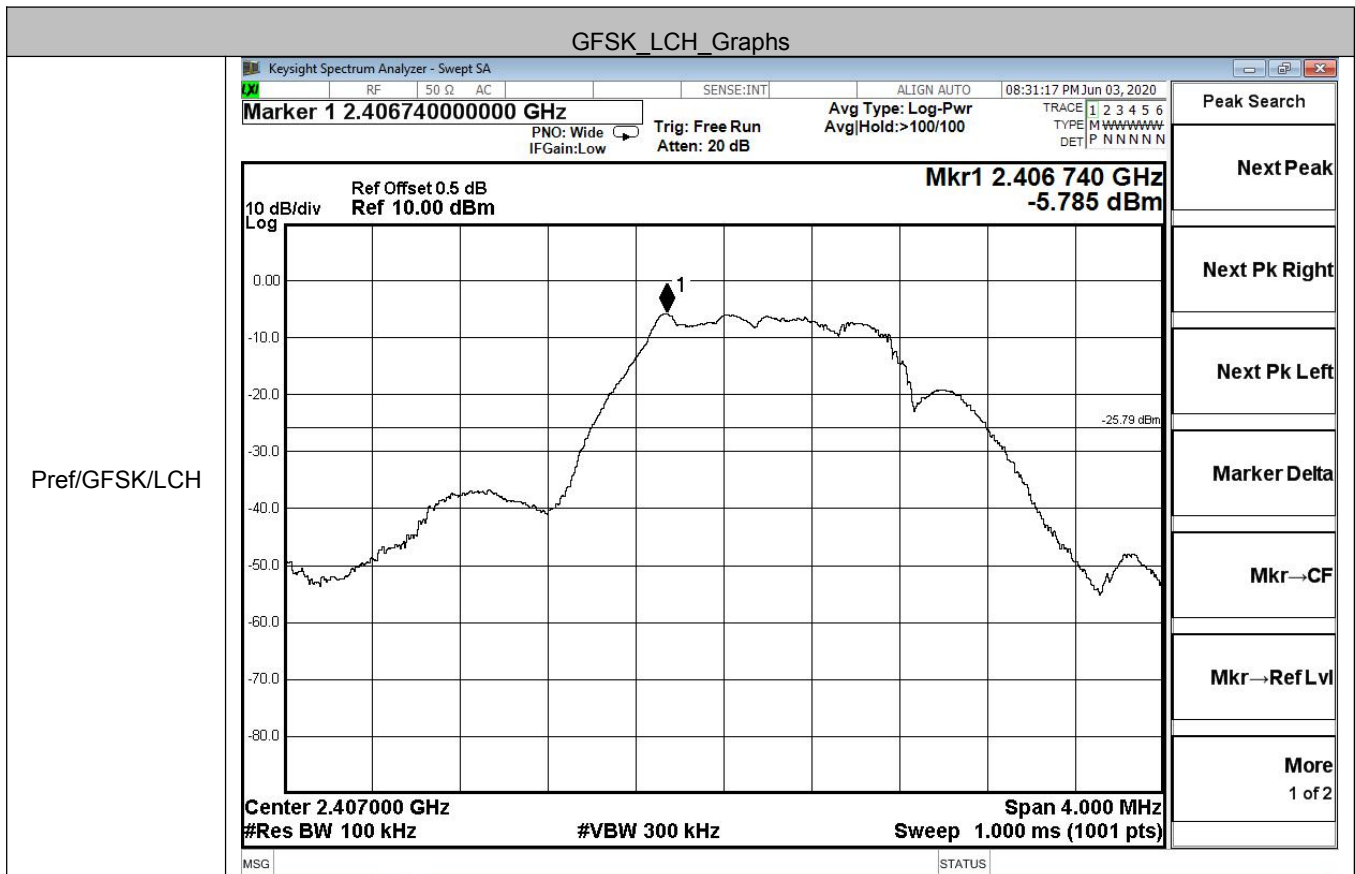


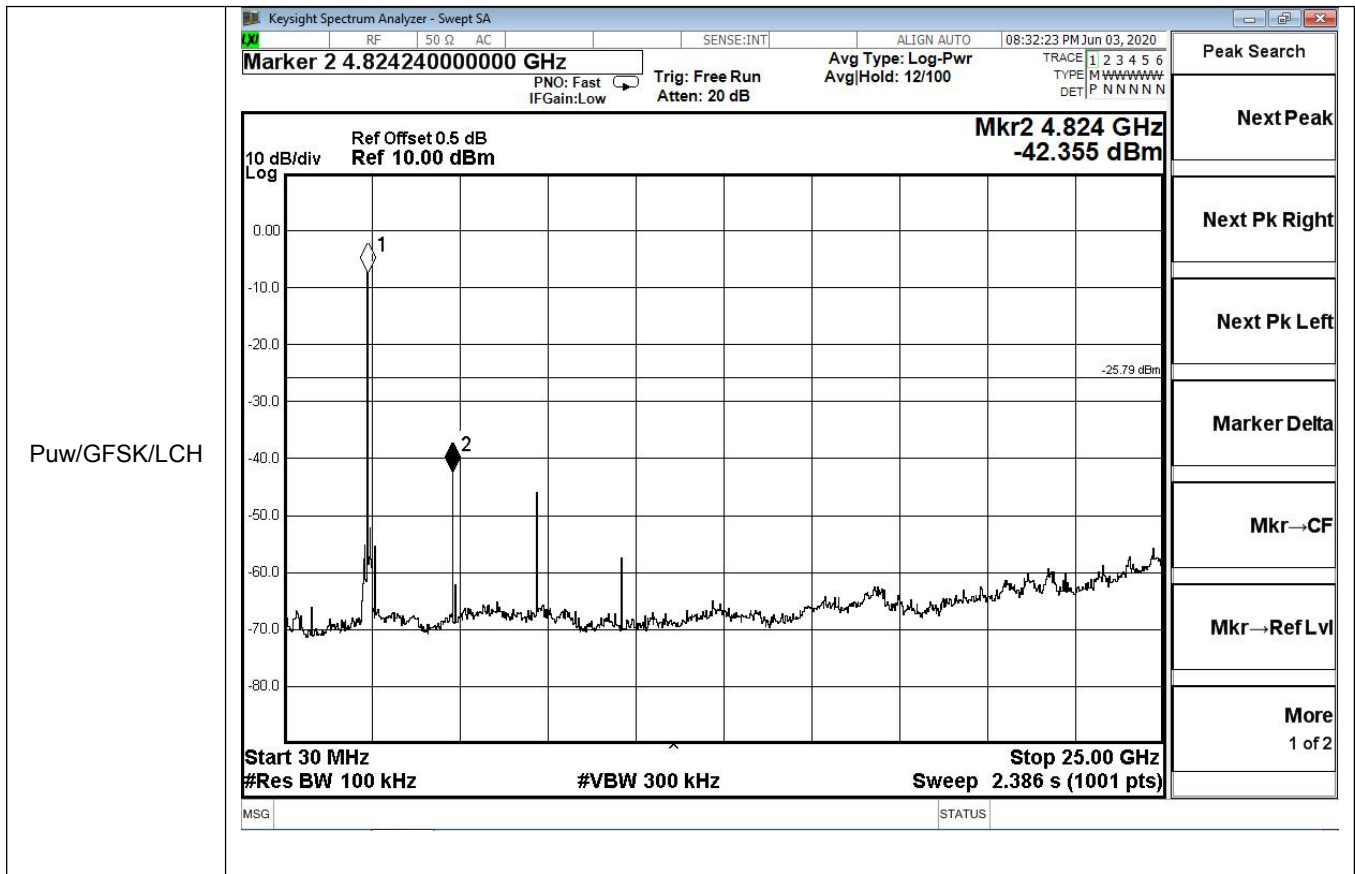
HCH



H.5 RF Conducted Spurious Emissions

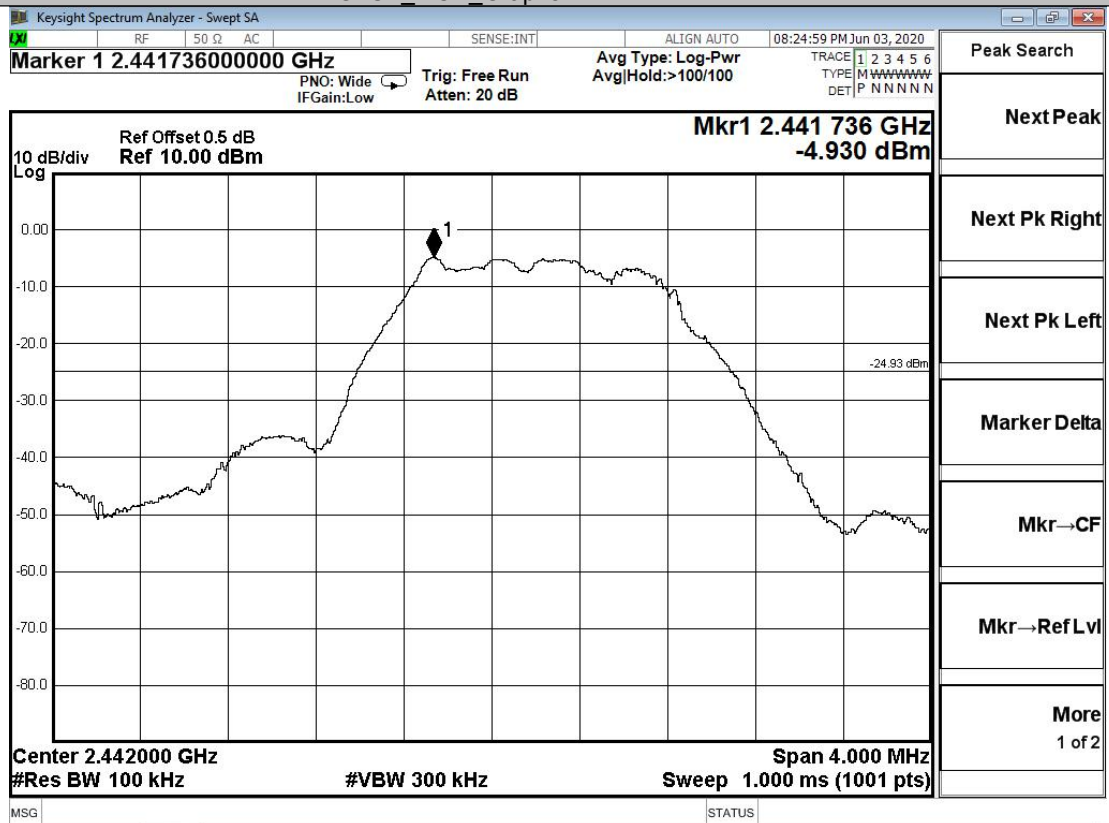
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-5.785	-42.355	-25.79	PASS
GFSK	MCH	-4.930	-41.505	-24.930	PASS
GFSK	HCH	-4.418	-41.313	-24.42	PASS



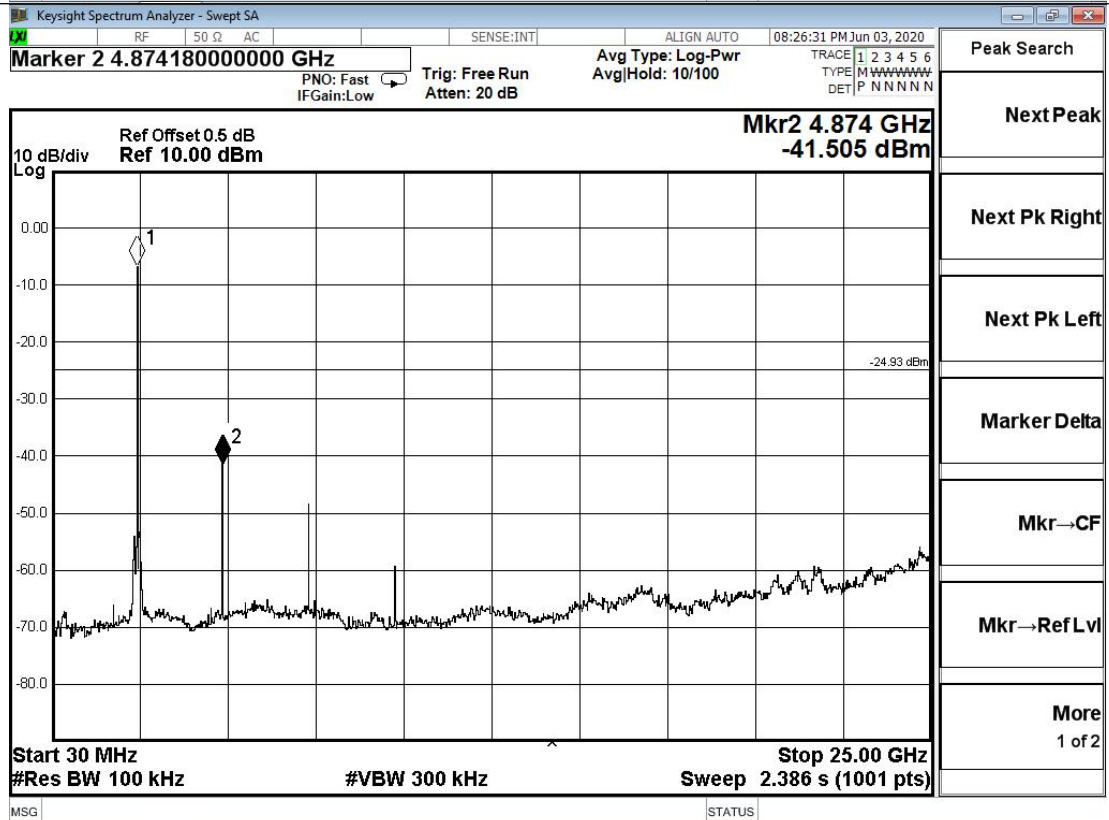


GFSK_MCH_Graphs

Pref/GFSK/MCH

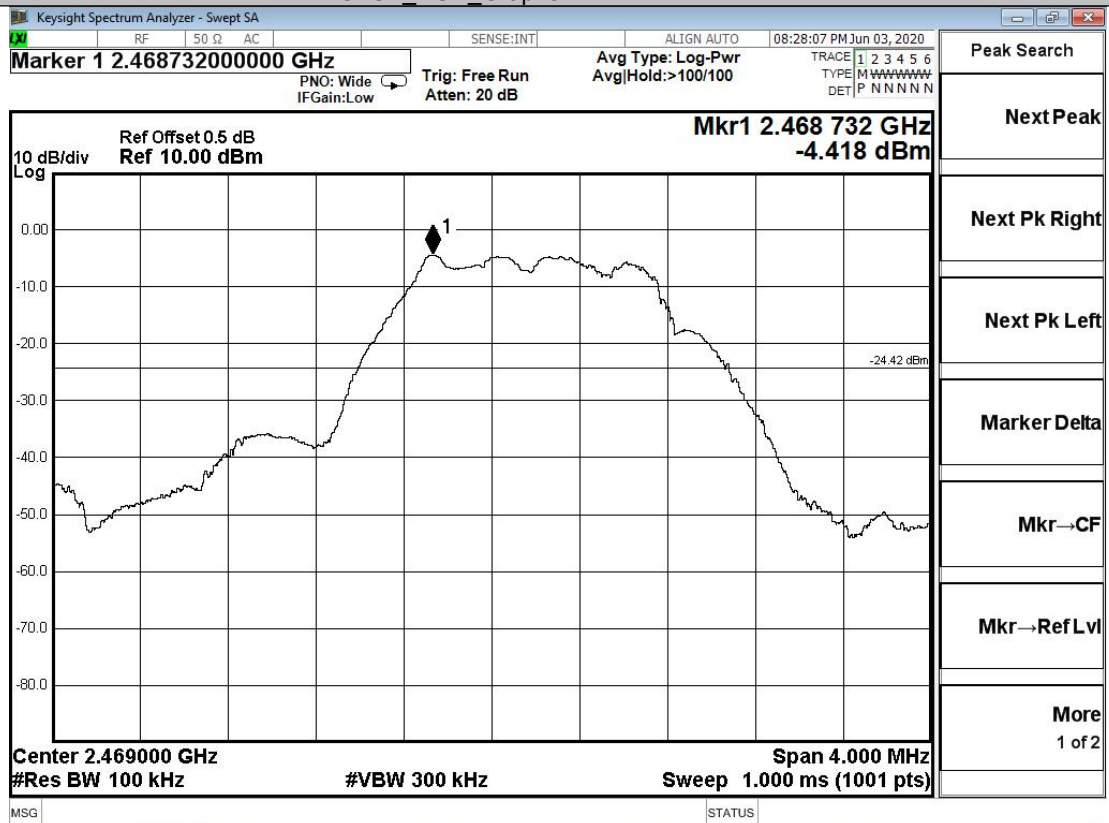


Puw/GFSK/MCH

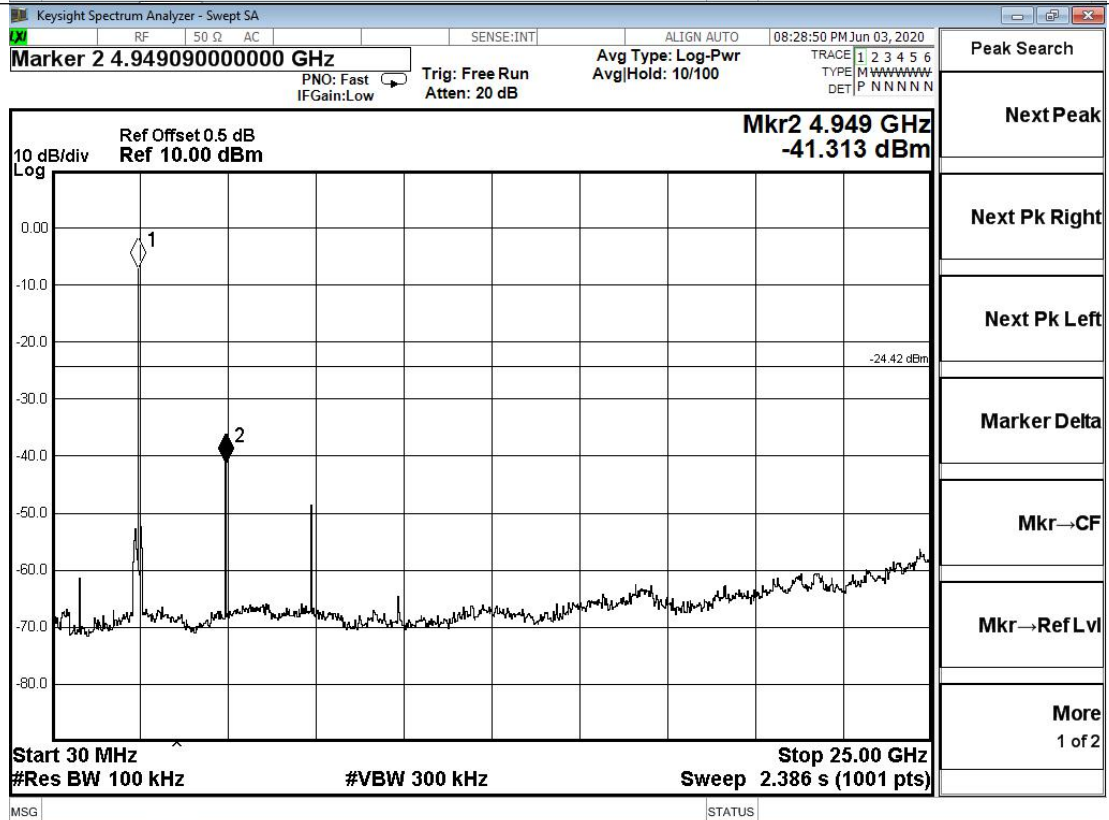


GFSK_HCH_Graphs

Pref/GFSK/HCH

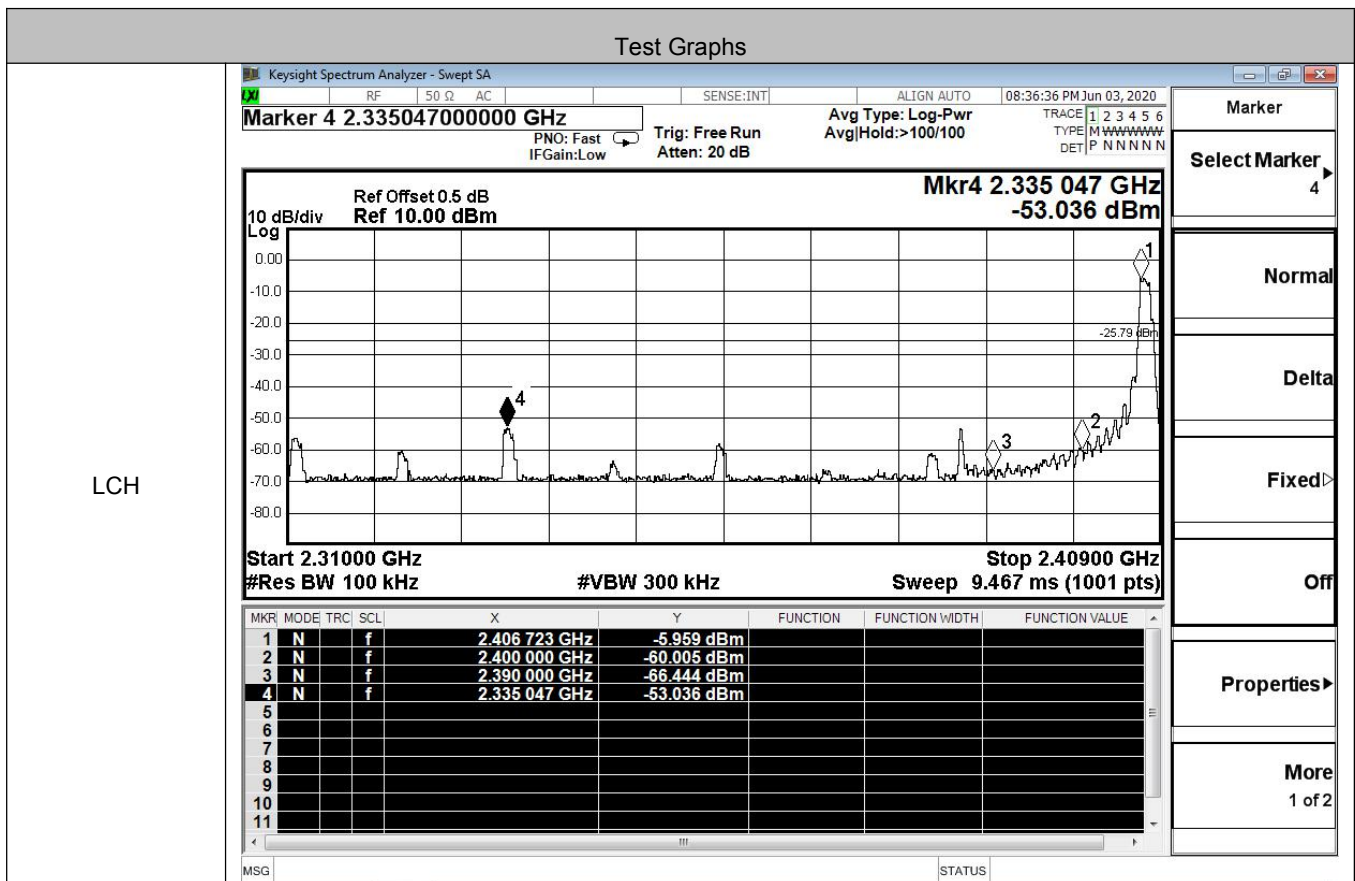


Puw/GFSK/HCH

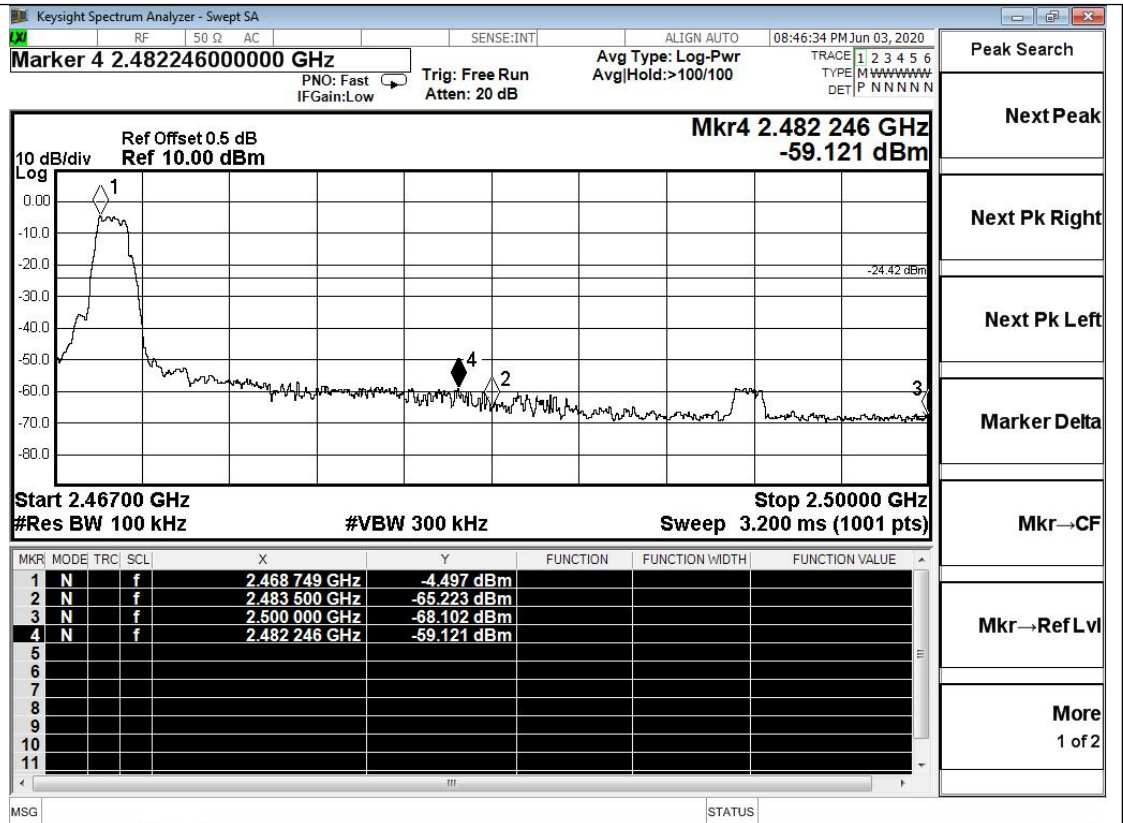


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-5.959	-53.036	-25.96	PASS
GFSK	HCH	-4.497	-59.121	-24.50	PASS



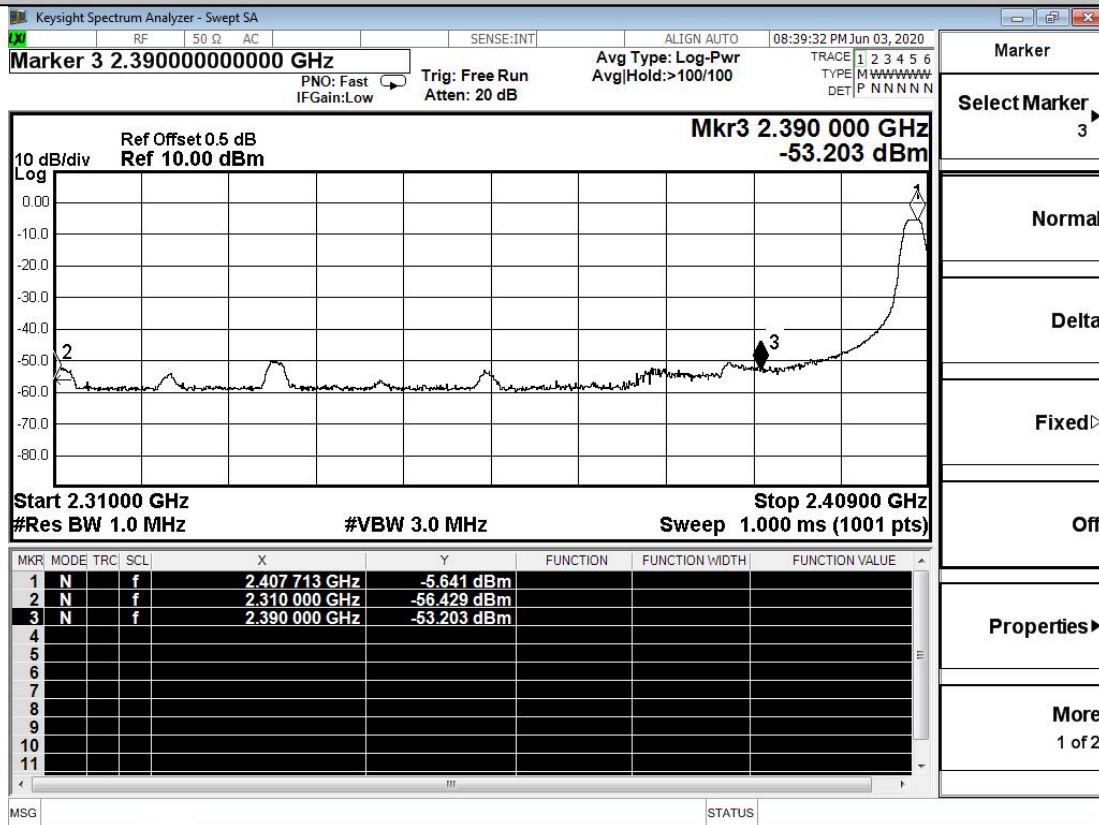
HCH



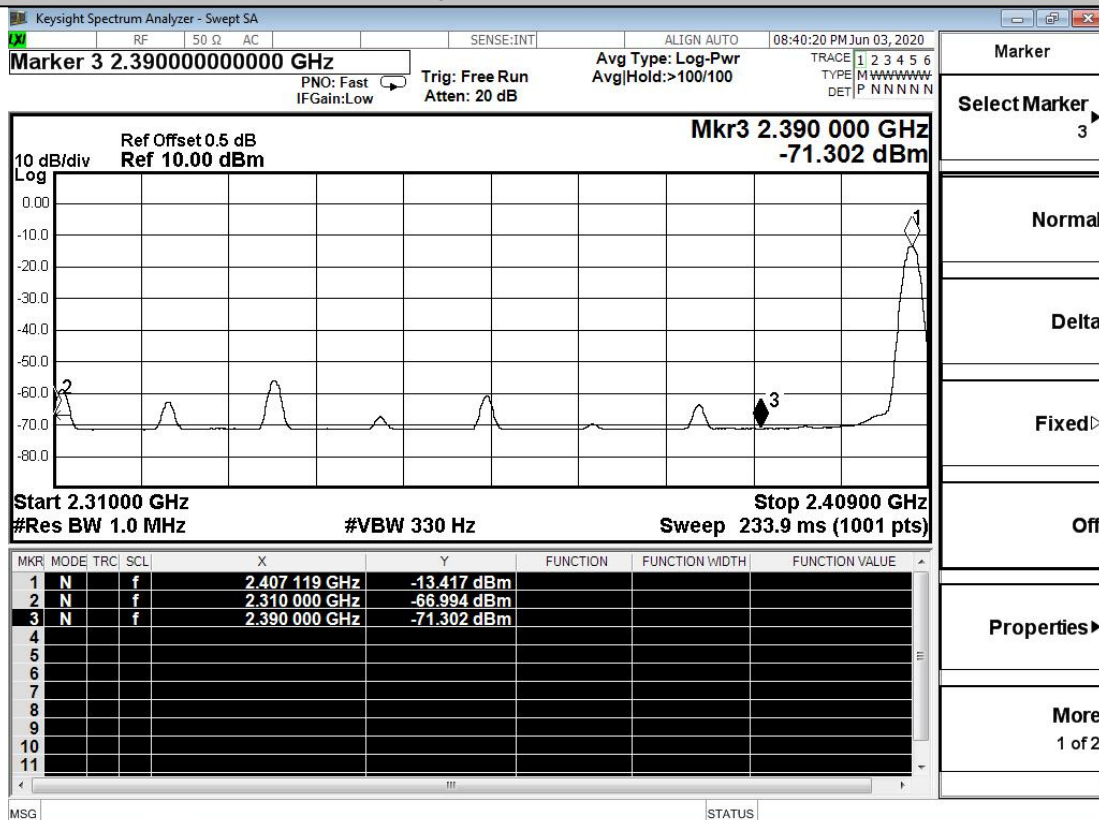
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
GFSK	2407	Ant1	2310.0	-56.429	5.5	0	44.30	PEAK	74	PASS
		Ant1	2310.0	-53.203	5.5	0	47.53	AV	54	PASS
		Ant1	2390.0	-66.994	5.5	0	33.74	PEAK	74	PASS
		Ant1	2390.0	-71.302	5.5	0	29.43	AV	54	PASS
	2469	Ant1	2483.5	-51.664	5.5	0	49.07	PEAK	74	PASS
		Ant1	2483.5	-57.296	5.5	0	43.43	AV	54	PASS
		Ant1	2500.0	-70.930	5.5	0	29.80	PEAK	74	PASS
		Ant1	2500.0	-71.153	5.5	0	29.58	AV	54	PASS

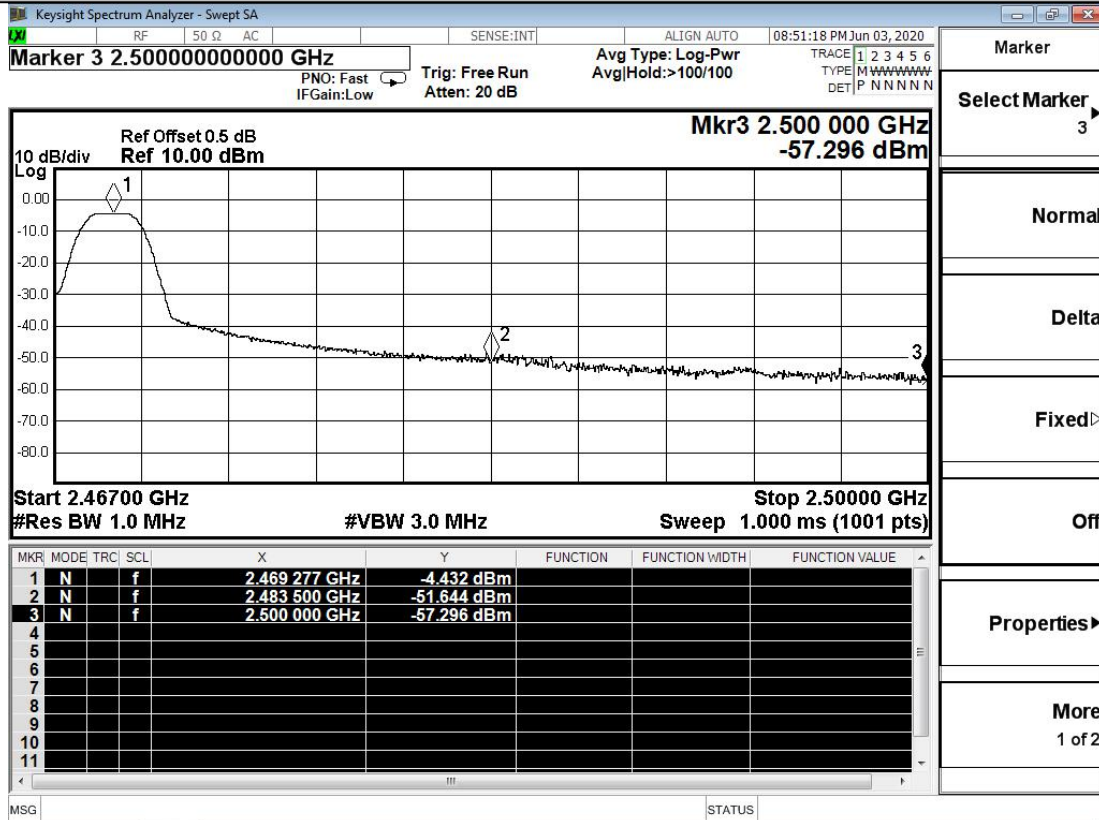
Restrict-band band-edge measurements_GFSK_2407_Ant1_PEAK



Restrict-band band-edge measurements_GFSK_2407_Ant1_AV



Restrict-band band-edge measurements_GFSK_2469_Ant1_PEAK



Restrict-band band-edge measurements_GFSK_2469_Ant1_AV

