

Appendix A

RF Test Data (Conducted Measurement)

Product Name: 2.4G WIRELESS HEADPHONE

Trade Mark: INVONS

Test Model: h-RF800B

Environmental Conditions

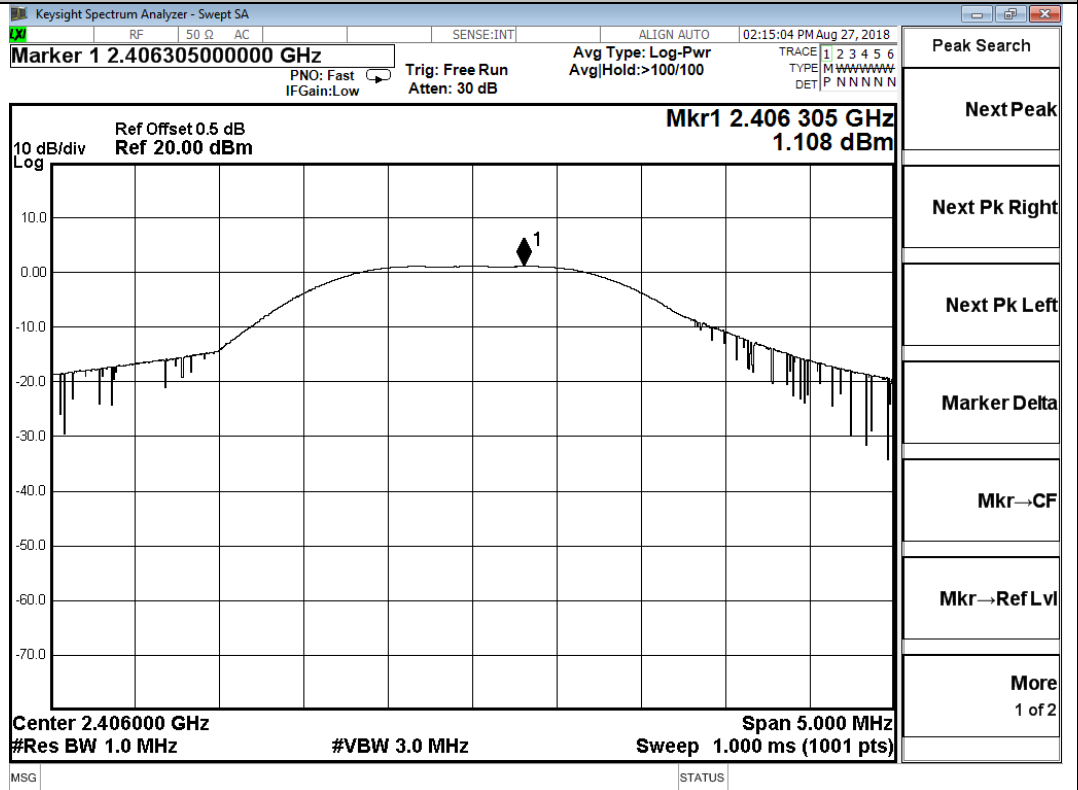
Temperature:	23.5 ° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina Xu
Supervised by:	Jayden.Zhuo

A.1 Maximum Conducted Peak Output Power

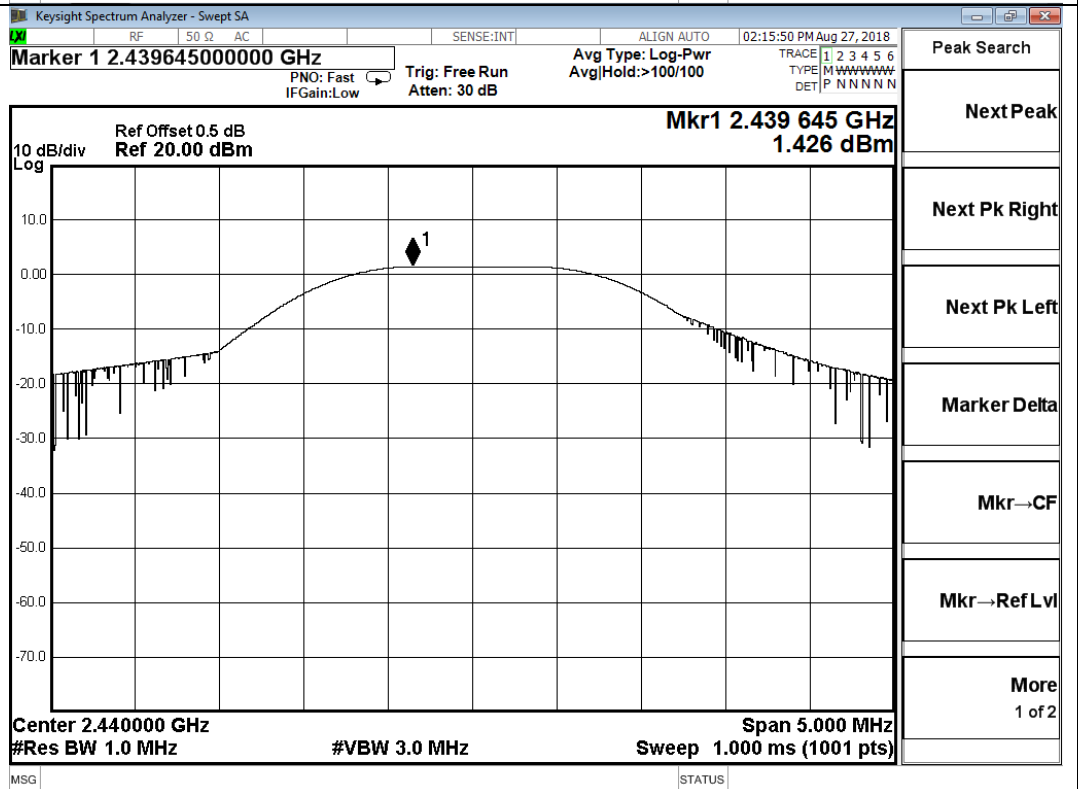
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.108	30	PASS
	MCH	1.426	30	PASS
	HCH	0.641	30	PASS

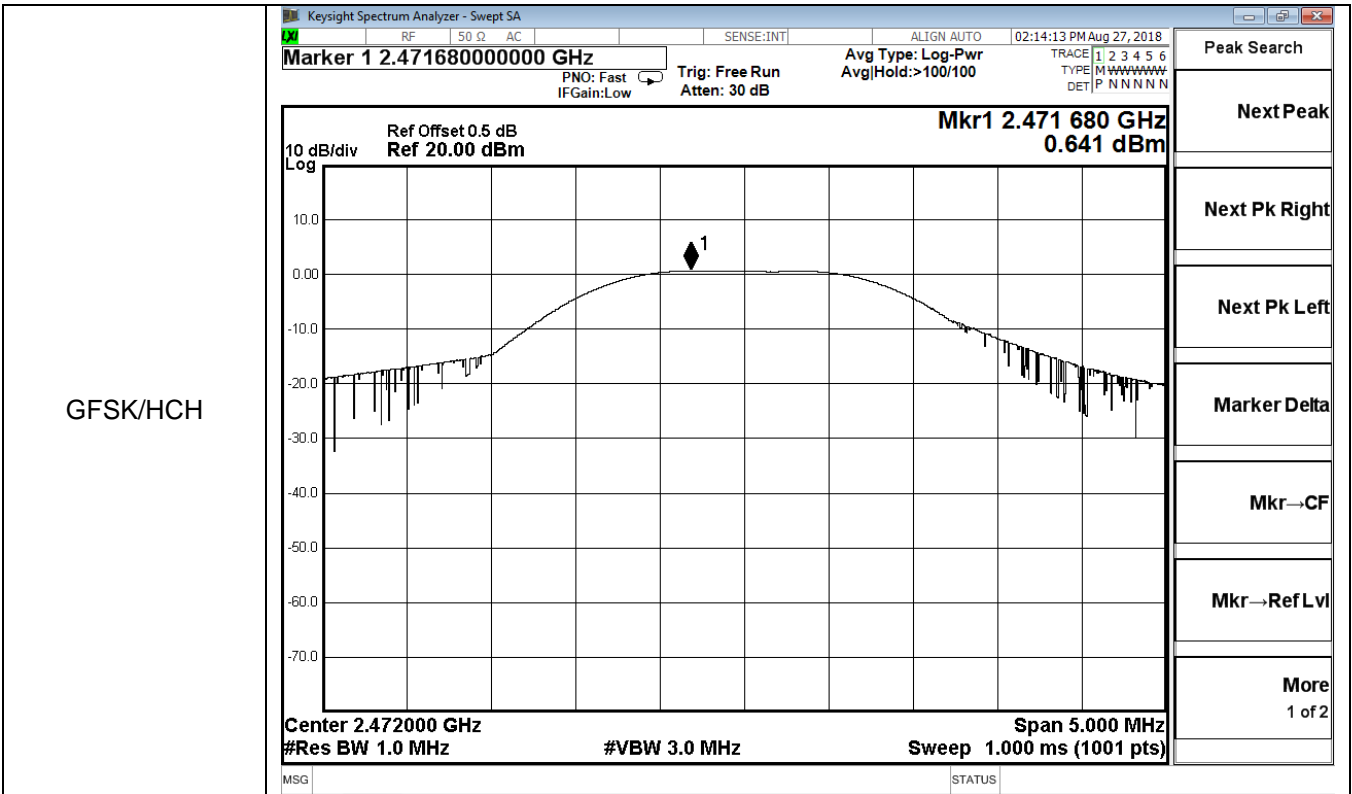
Test Graphs

GFSK/LCH



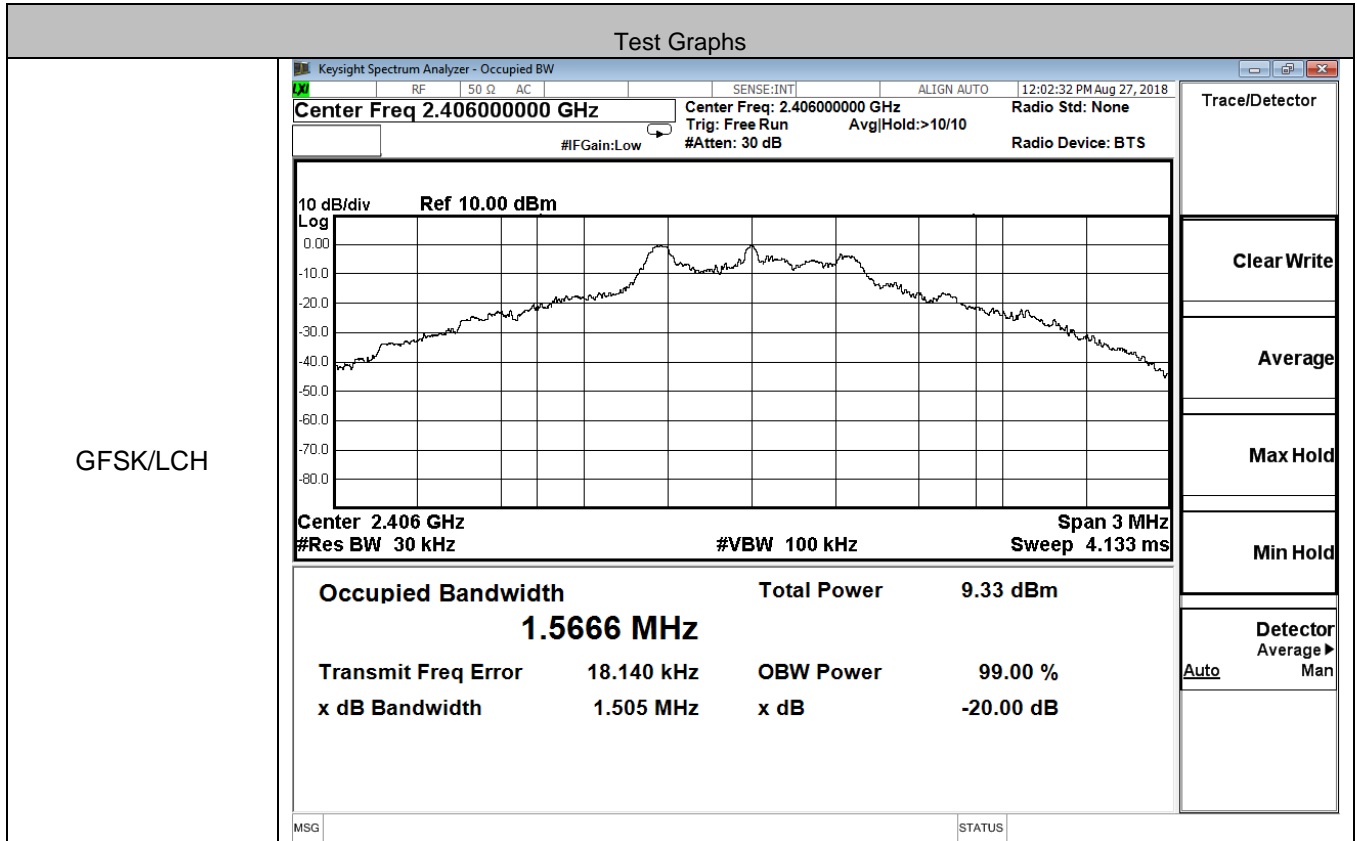
GFSK/MCH





A.2 99% and 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	99% Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.505	1.5666	Not Specified	PASS
	MCH	1.477	1.5668	Not Specified	PASS
	HCH	1.499	1.6012	Not Specified	PASS



GFSK/MCH

Center Freq: 2.44000000 GHz
 #Res BW 30 kHz
 #VBW 100 kHz
 Span 3 MHz
 Sweep 4.133 ms

Occupied Bandwidth	Total Power	9.75 dBm
1.5668 MHz		
Transmit Freq Error	14.827 kHz	OBW Power 99.00 %
x dB Bandwidth	1.477 MHz	x dB -20.00 dB

Trace/Detector

Clear Write

Average

Max Hold

Min Hold

Detector Average

Auto Man

GFSK/HCH

Center Freq: 2.47200000 GHz
 #Res BW 30 kHz
 #VBW 100 kHz
 Span 3 MHz
 Sweep 4.133 ms

Occupied Bandwidth	Total Power	9.08 dBm
1.6012 MHz		
Transmit Freq Error	727 Hz	OBW Power 99.00 %
x dB Bandwidth	1.499 MHz	x dB -20.00 dB

Trace/Detector

Clear Write

Average

Max Hold

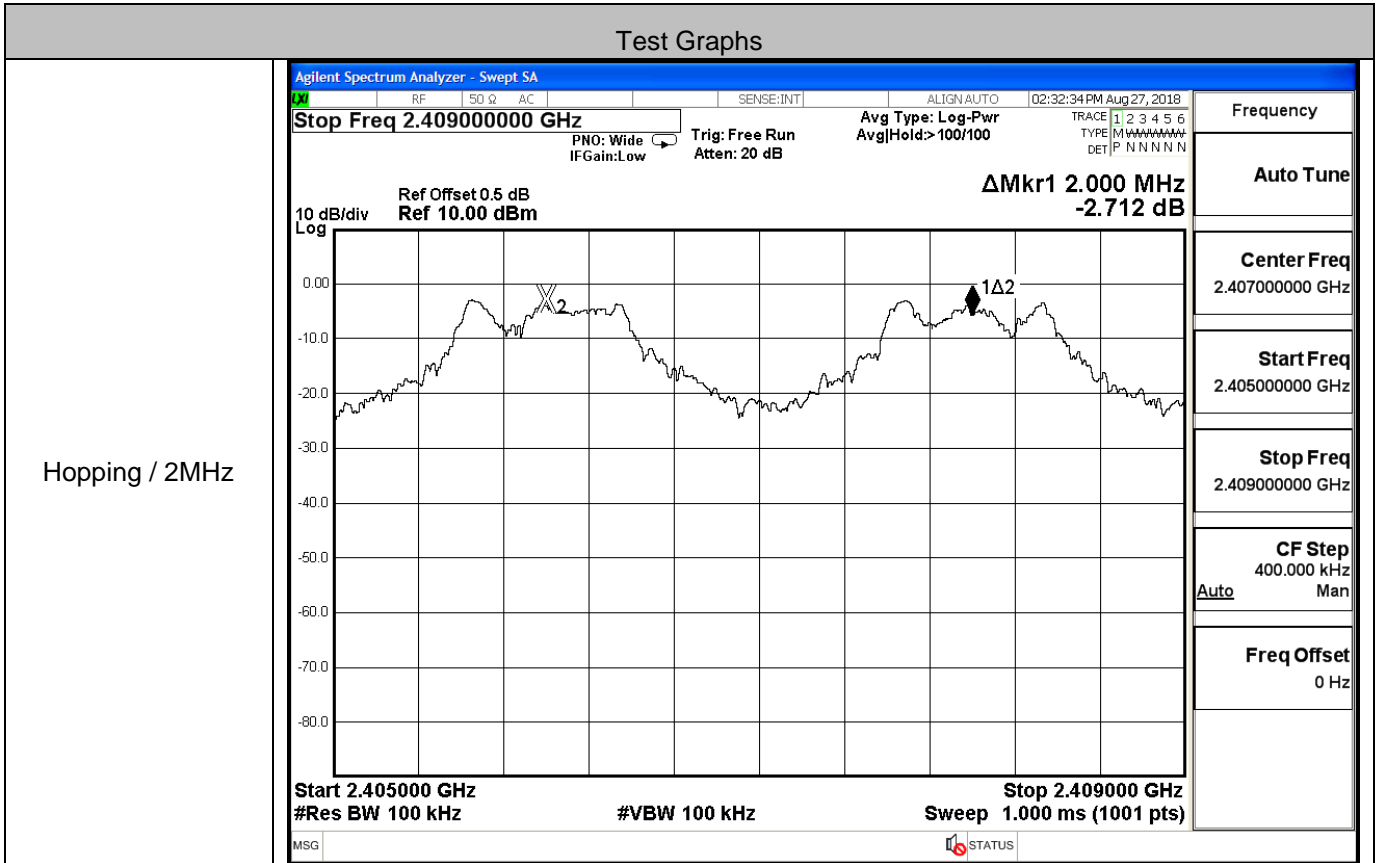
Min Hold

Detector Average

Auto Man

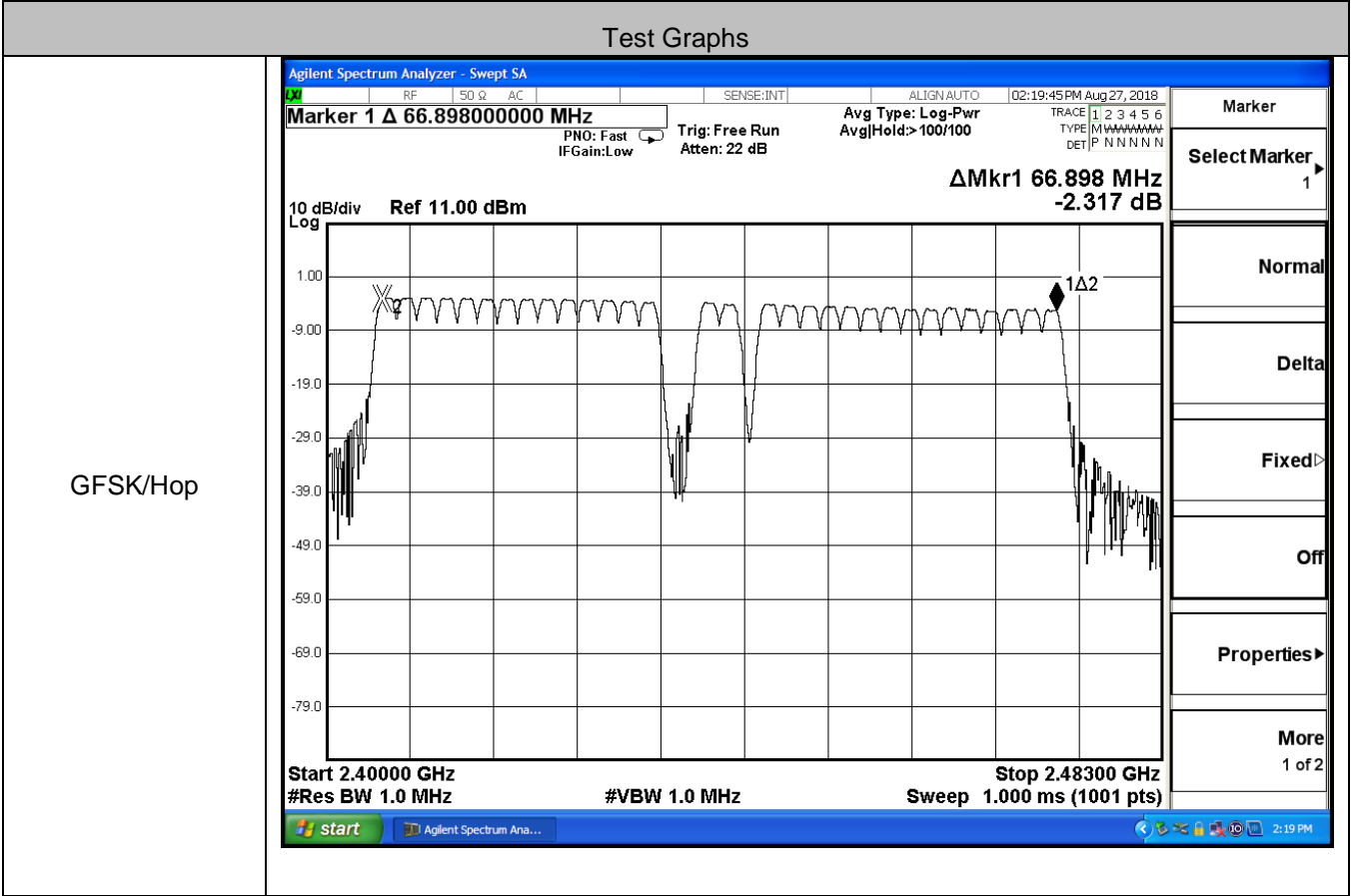
A.3 Carrier Frequency Separation

Mode	Channel Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	2	2.0000	1.6012	PASS
	4	4.0000	1.6012	PASS



A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	31	>=15	PASS

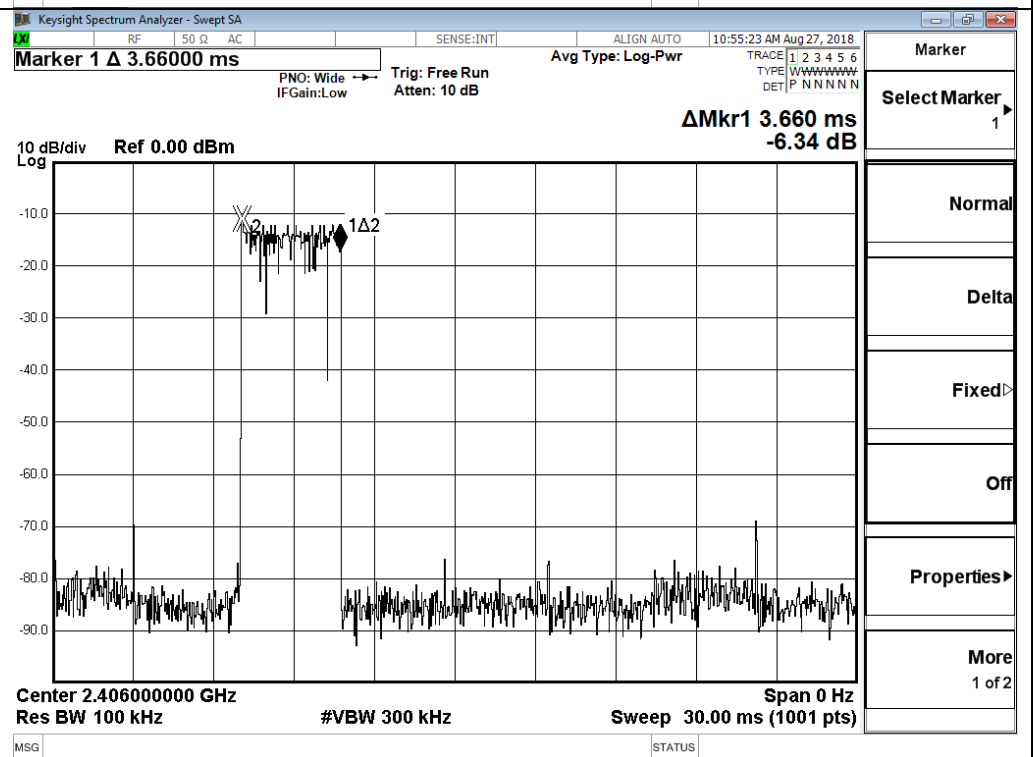
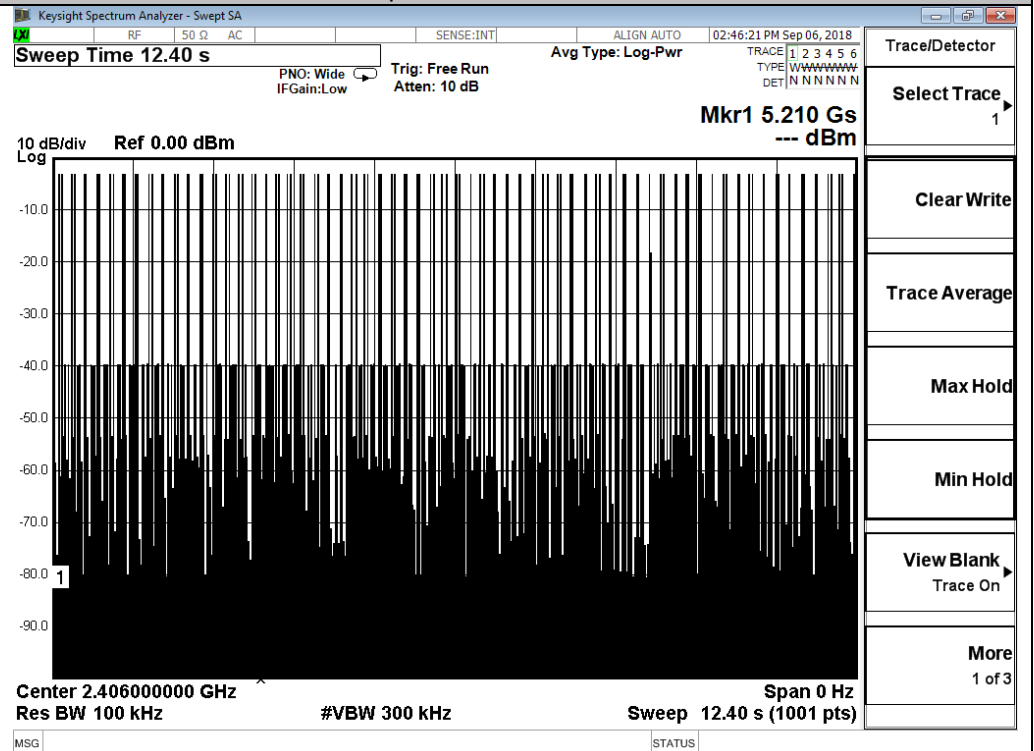


A.5 Dwell Time

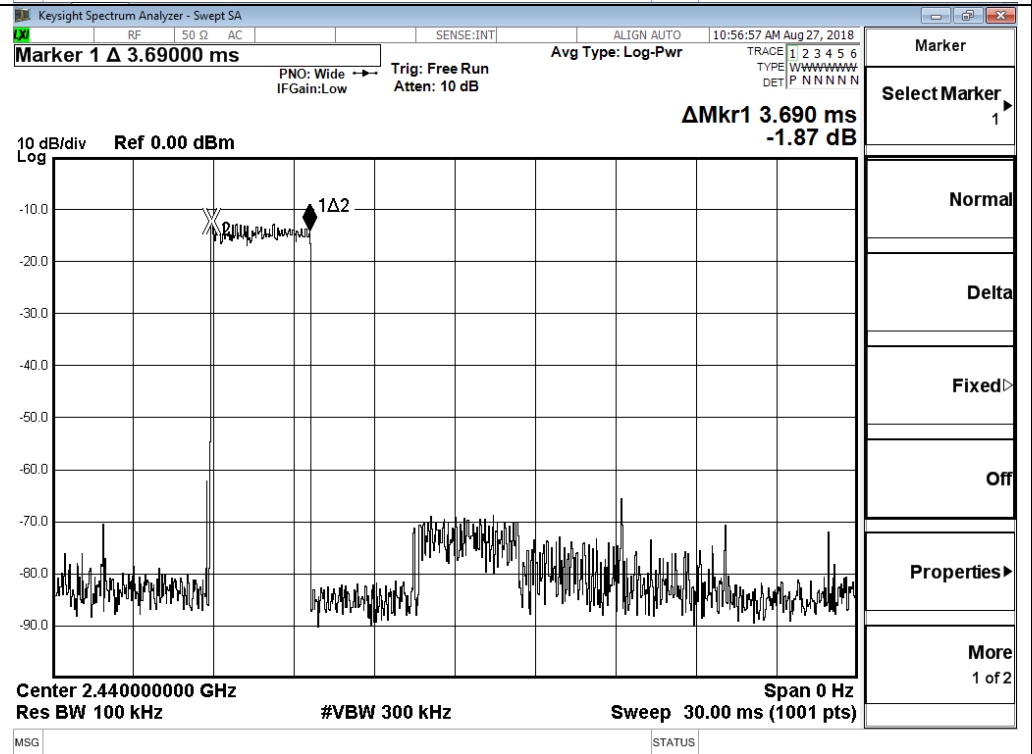
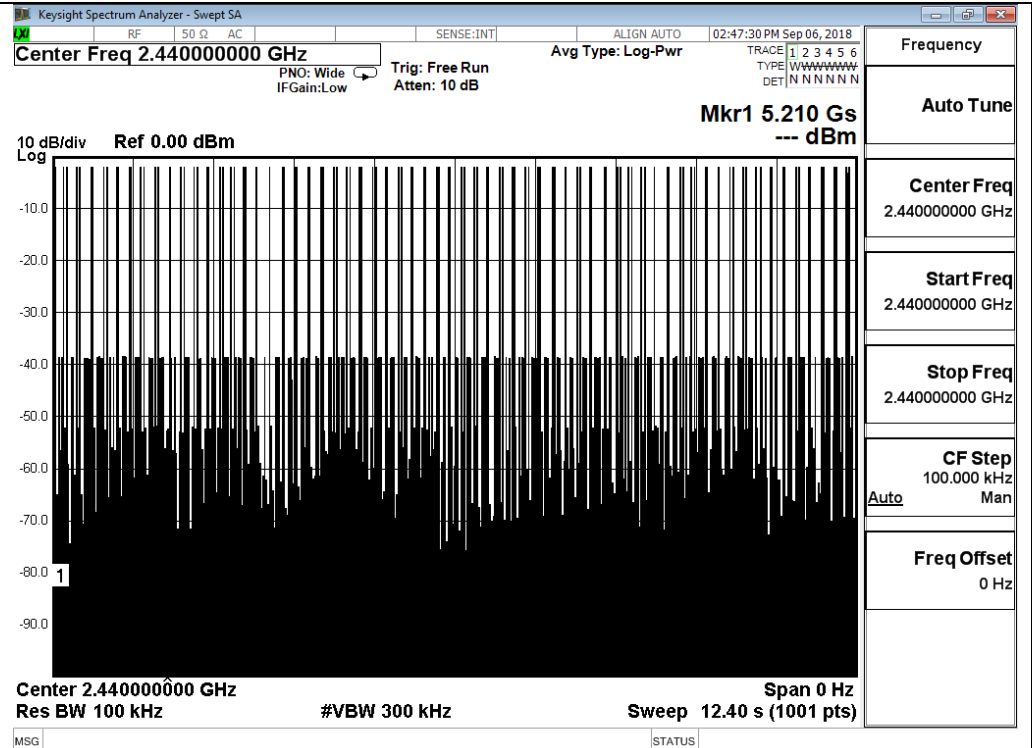
Mode	Channel	Burst Width [ms/hop]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	LCH	3.660	105	0.3843	0.4	PASS
	MCH	3.690	105	0.3875	0.4	PASS
	HCH	3.660	105	0.3843	0.4	PASS

Test Graphs

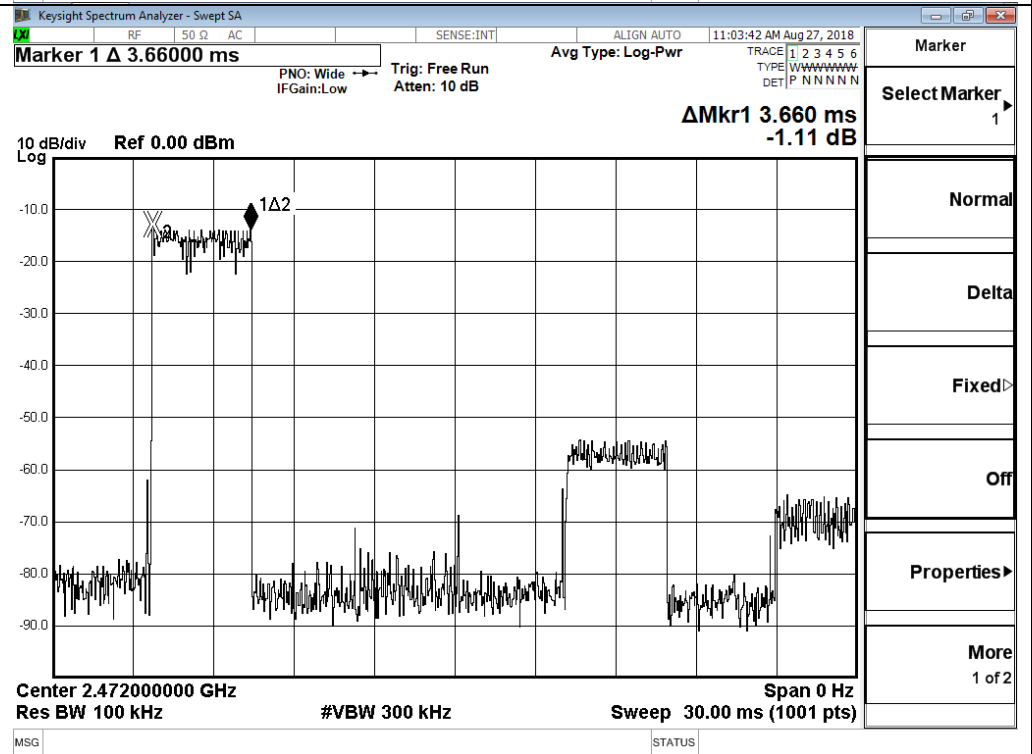
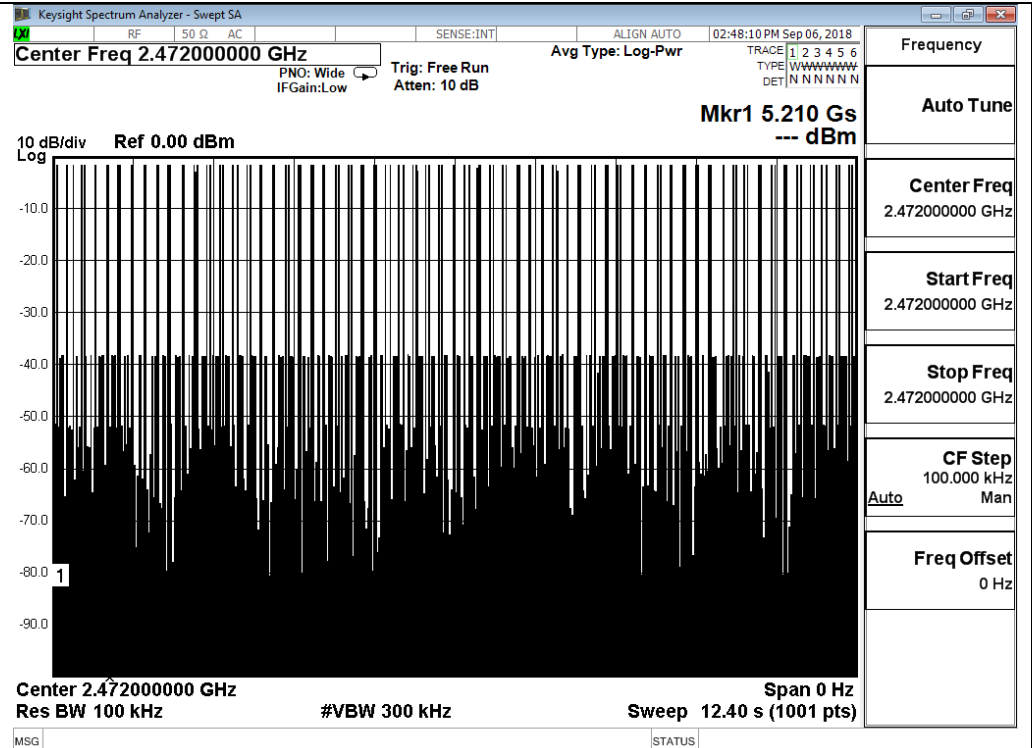
GFSK / LCH



GFSK / MCH



GFSK / HCH

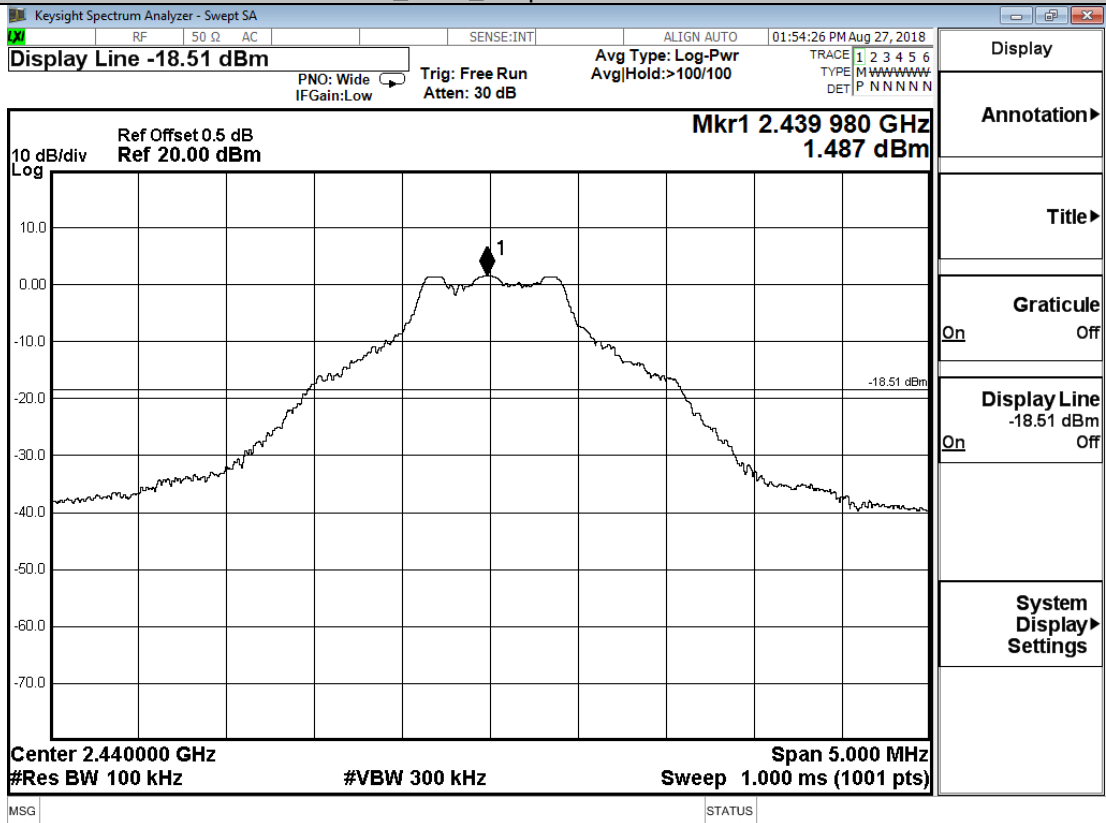


A.6 RF Conducted Spurious Emissions

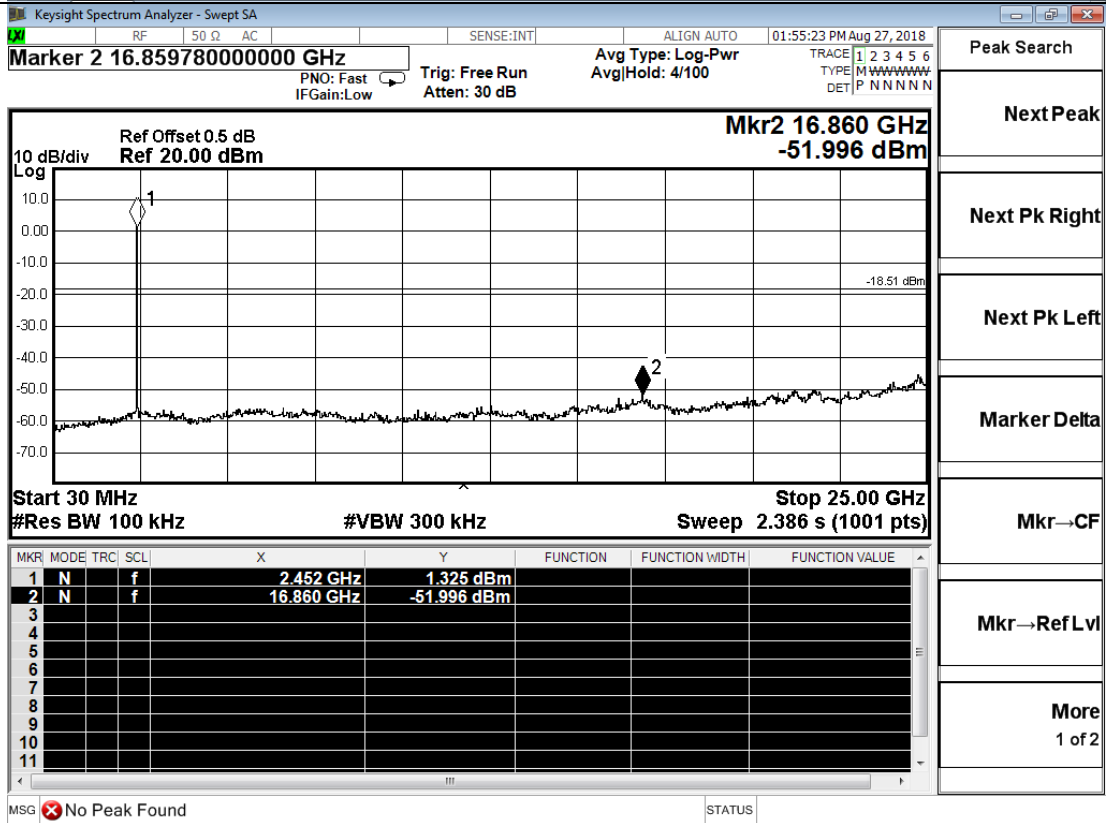
Mode	Channel	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-47.526	-18.82	PASS
	MCH	-51.996	-18.51	PASS
	HCH	-45.740	-19.33	PASS

GFSK_MCH_Graphs

Pref

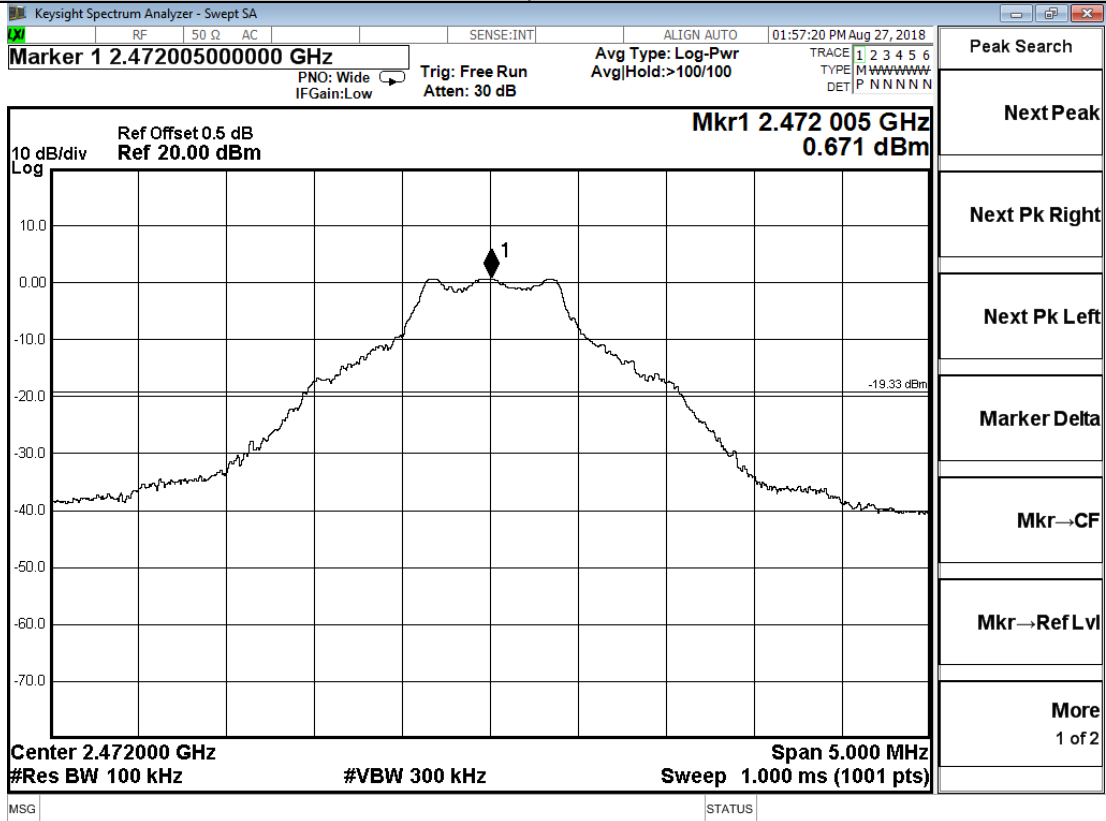


Puw

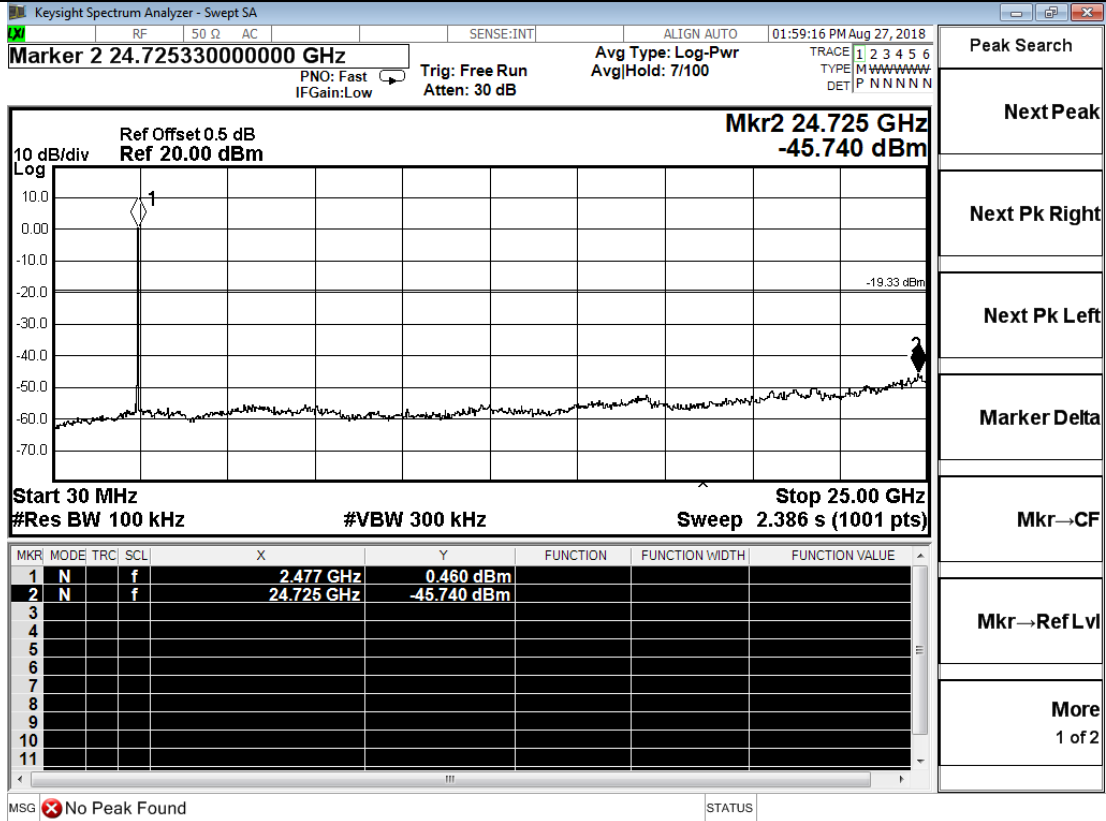


GFSK_HCH_Graphs

Pref



Puw

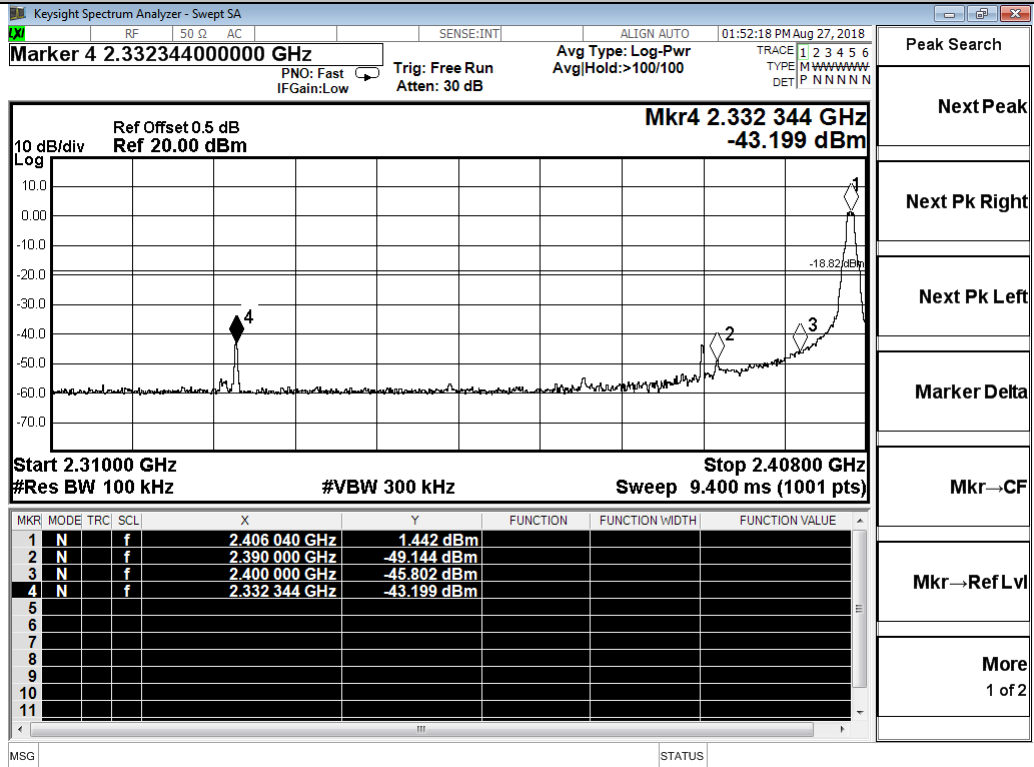


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2406	-2.673	Off	-53.199	-18.82	PASS
			-2.468	On	-47.158	-18.82	PASS
	HCH	2472	-2.950	Off	-50.179	-19.33	PASS
			-2.695	On	-56.374	-19.33	PASS

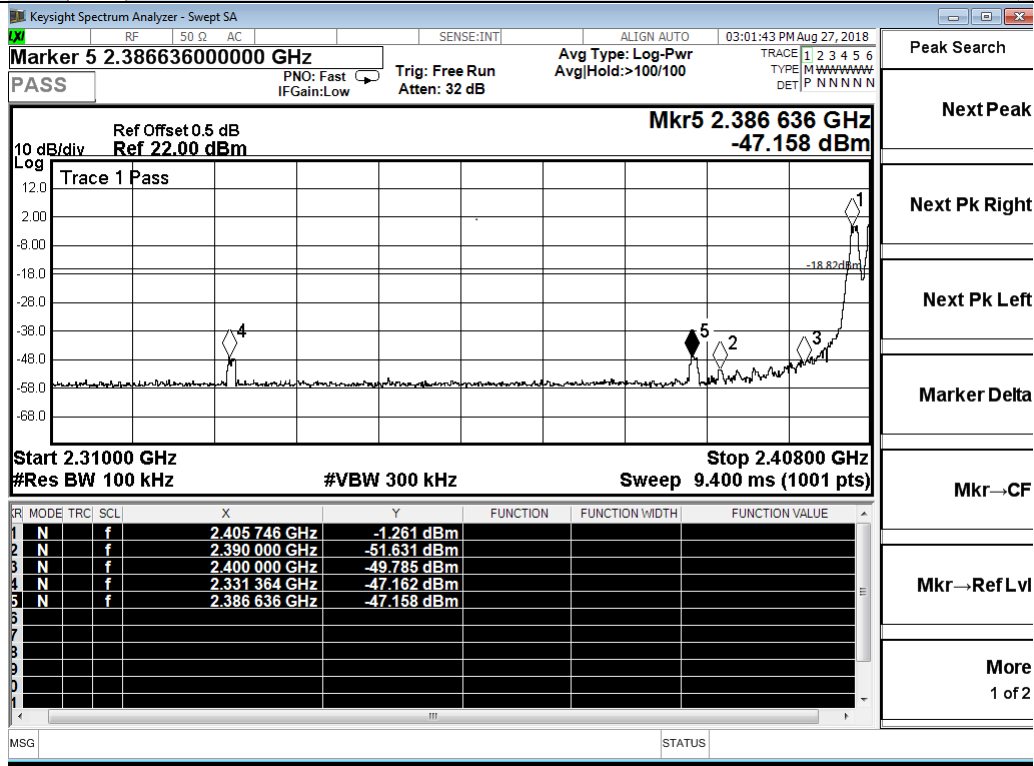
Test Graphs

GFSK/LCH/No Hop



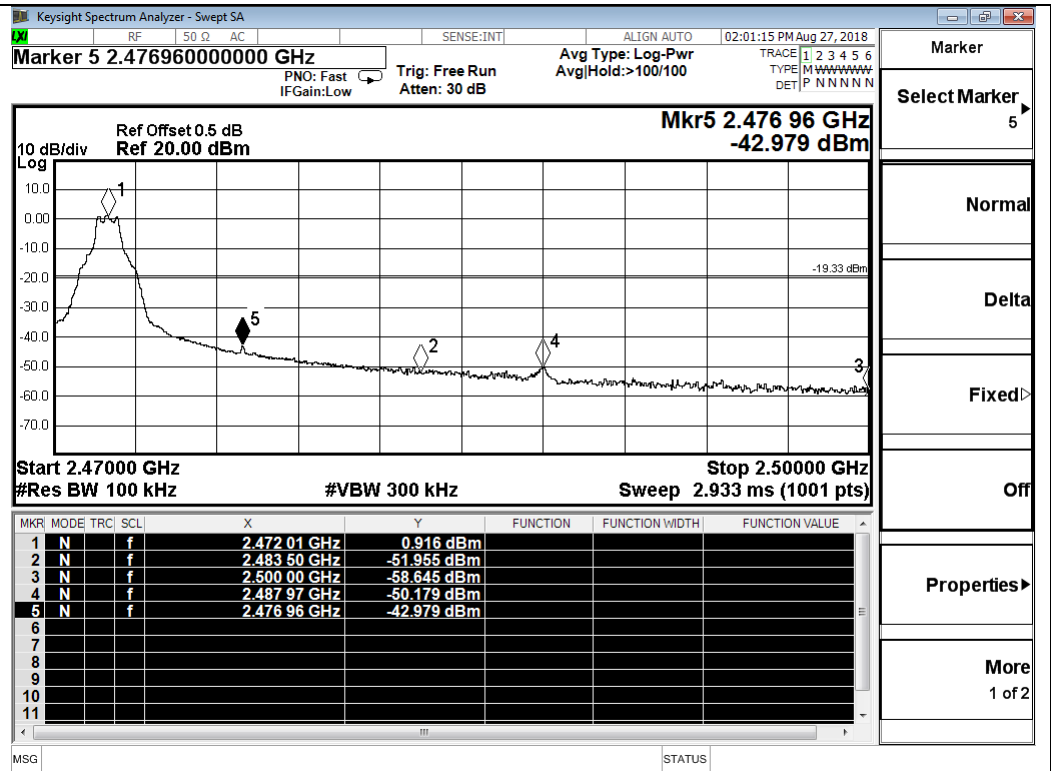
- Peak Search
- Next Peak
- Next Pk Right
- Next Pk Left
- Marker Delta
- Mkr→CF
- Mkr→Ref Lvl
- More 1 of 2

GFSK/LCH/Hop

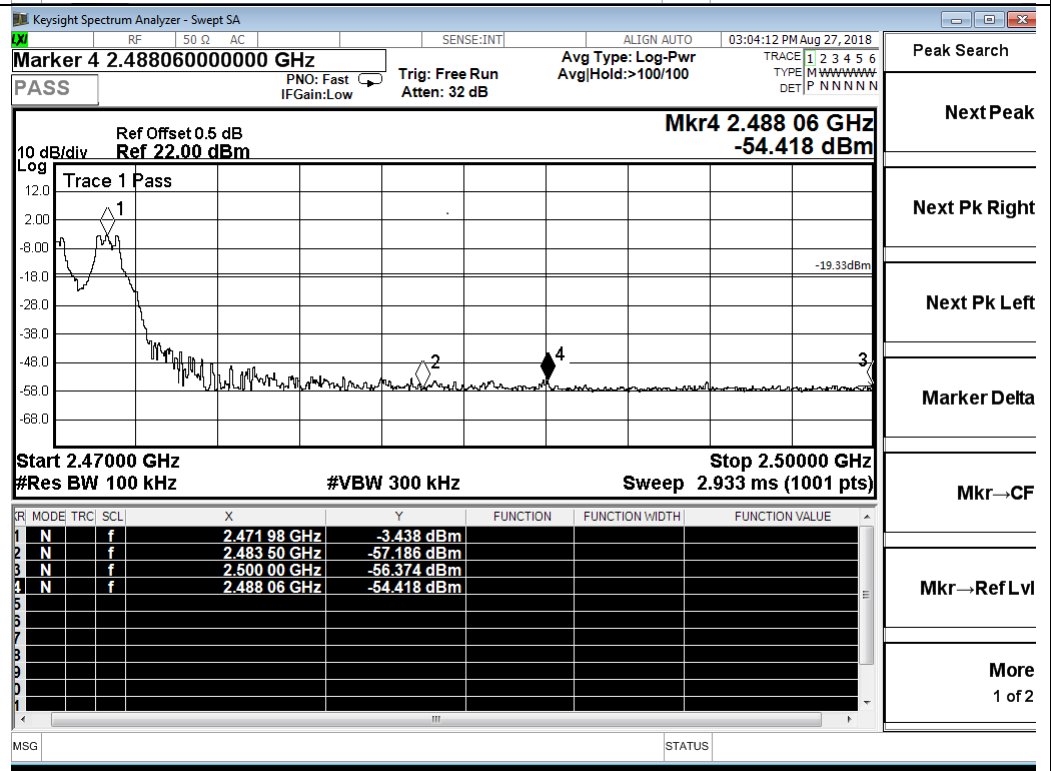


- Peak Search
- Next Peak
- Next Pk Right
- Next Pk Left
- Marker Delta
- Mkr→CF
- Mkr→Ref Lvl
- More 1 of 2

GFSK/HCH/No Hop



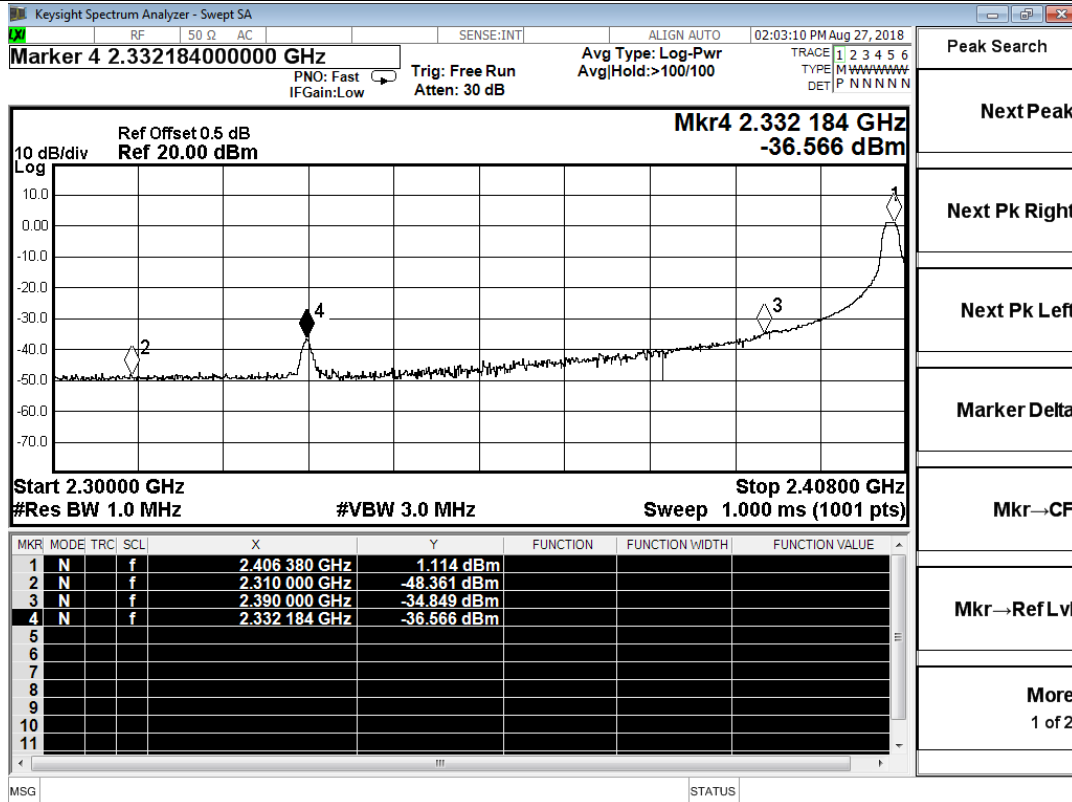
GFSK/HCH/Hop



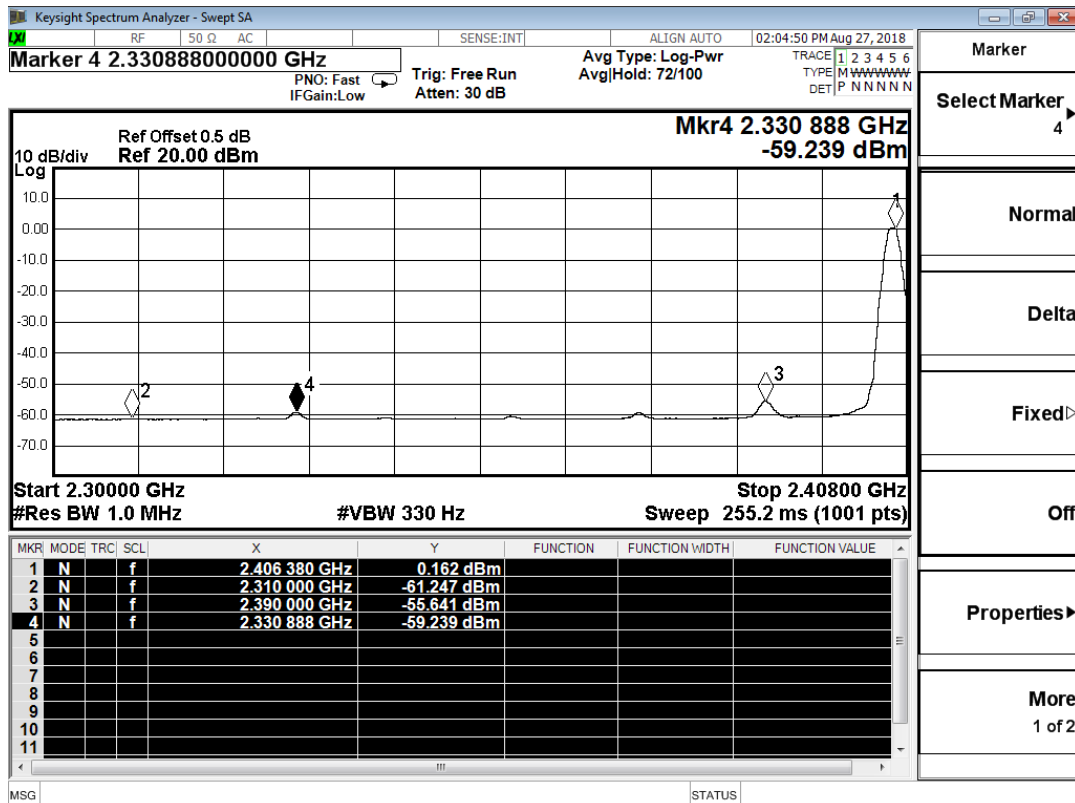
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-48.361	2	0	48.87	PEAK	74	PASS
	Off	2310.0	-61.247	2	0	35.98	AV	54	PASS
	Off	2390.0	-34.849	2	0	62.38	PEAK	74	PASS
	Off	2390.0	-59.239	2	0	37.99	AV	54	PASS
	Off	2483.5	-33.790	2	0	63.44	PEAK	74	PASS
	Off	2483.5	-60.834	2	0	36.40	AV	54	PASS
	Off	2500.0	-41.821	2	0	55.41	PEAK	74	PASS
	Off	2500.0	-61.082	2	0	36.15	AV	54	PASS

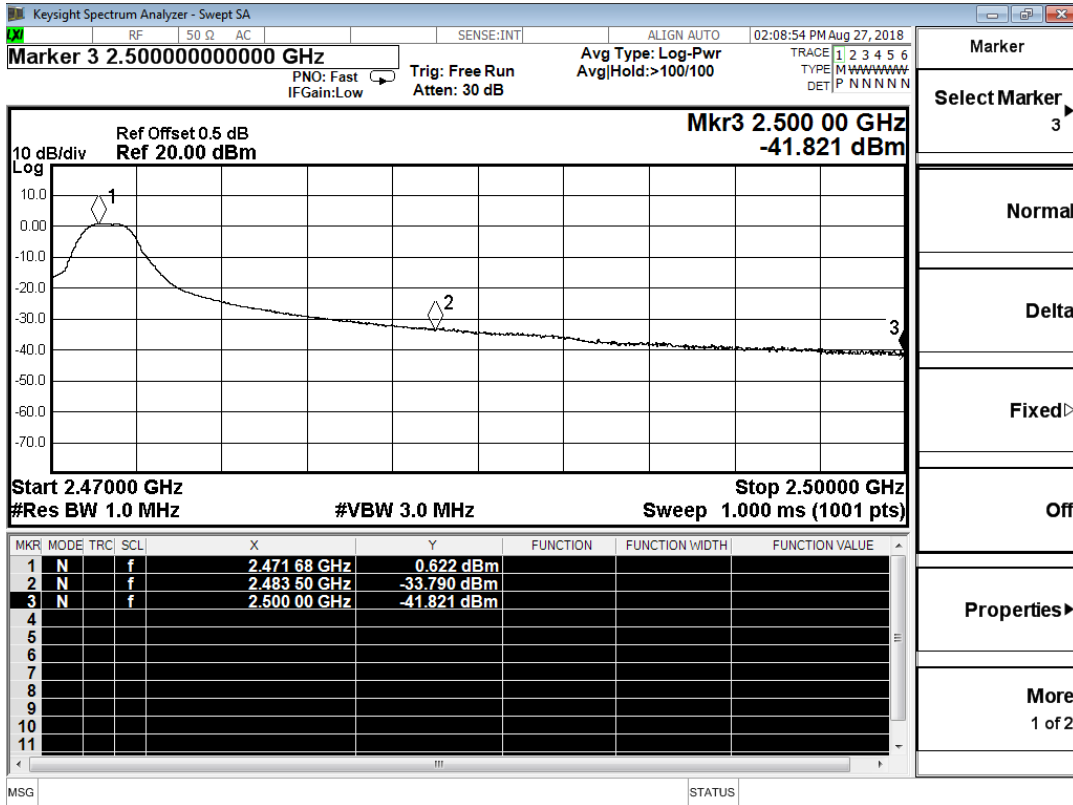
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)



Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)

