

Appendix A

RF Test Data for GFSK (Conducted Measurement)

Product Name: Digital Video Baby Monitor

Trade Mark: /

Test Model: VB603-M

Environmental Conditions

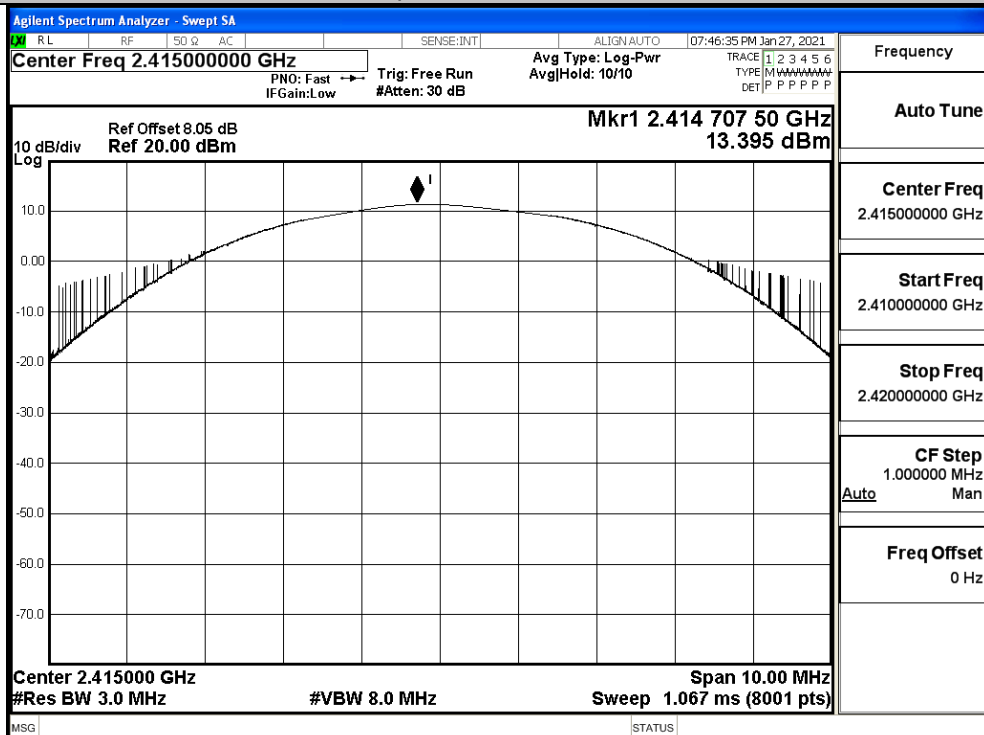
Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

A.1 Maxmum Conducted Peak Output Power

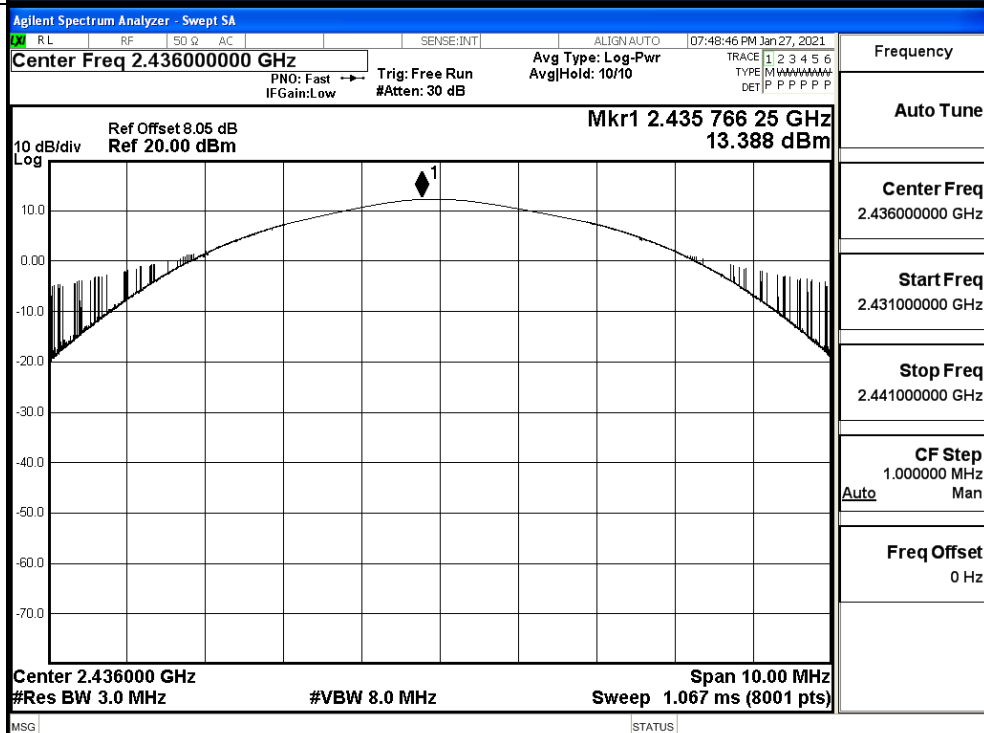
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	13.395	21	PASS
	MCH	13.388	21	PASS
	HCH	13.582	21	PASS

Test Graphs

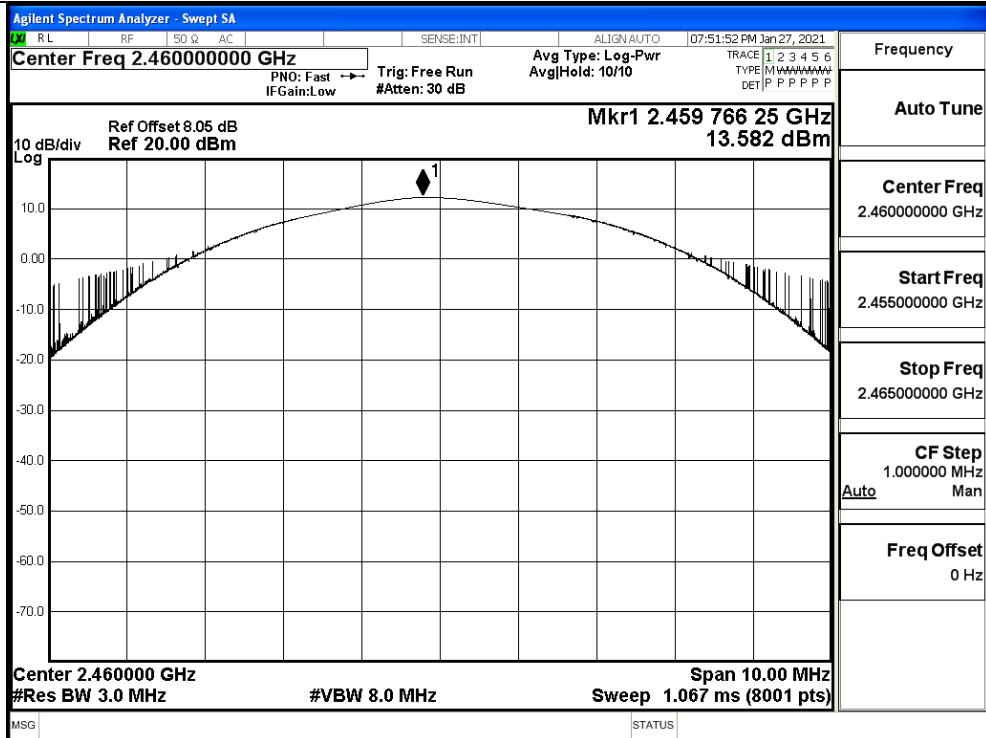
GFSK/LCH



GFSK/MCH



GFSK/HCH

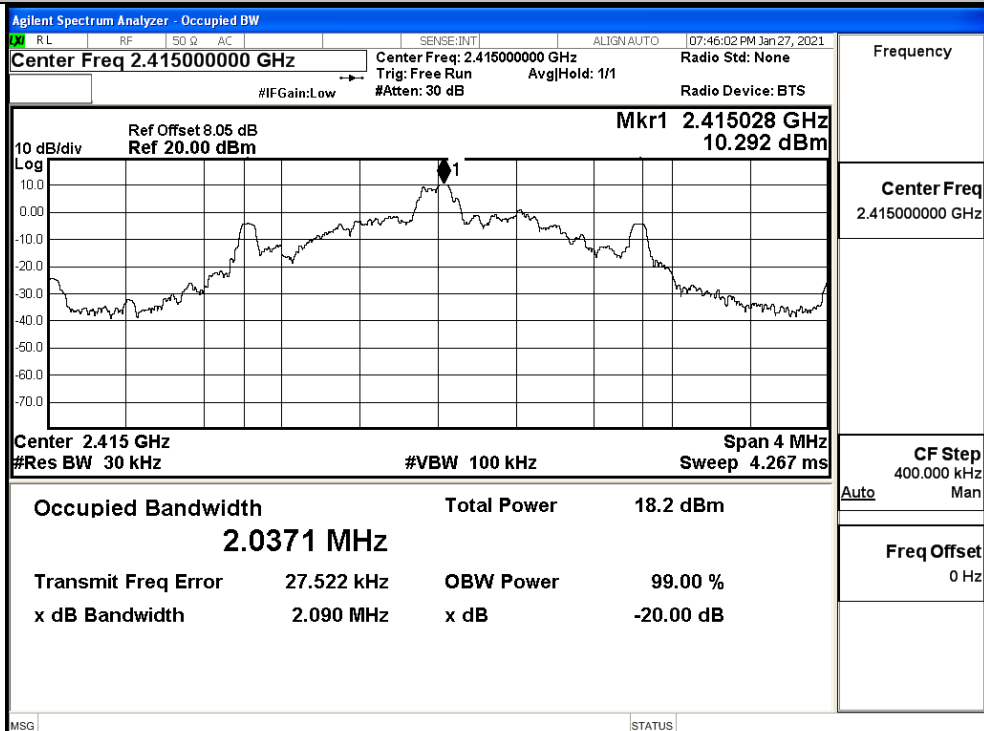


A.2 20dB Bandwidth

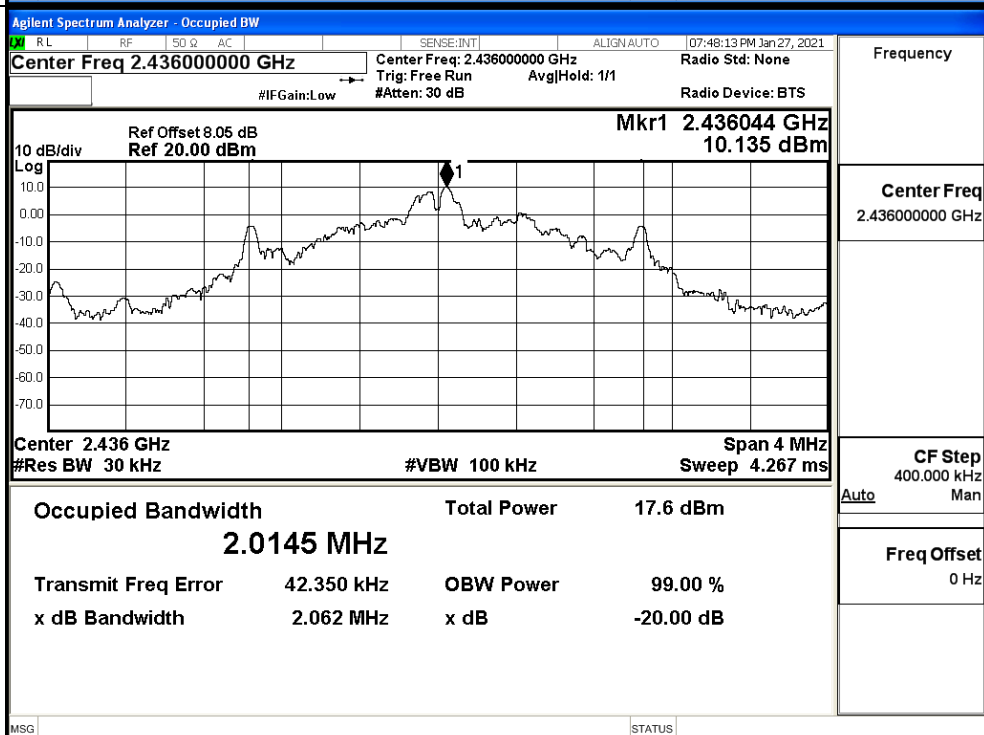
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	2.090	Not Specified	PASS
	MCH	2.062	Not Specified	PASS
	HCH	2.070	Not Specified	PASS

Test Graphs

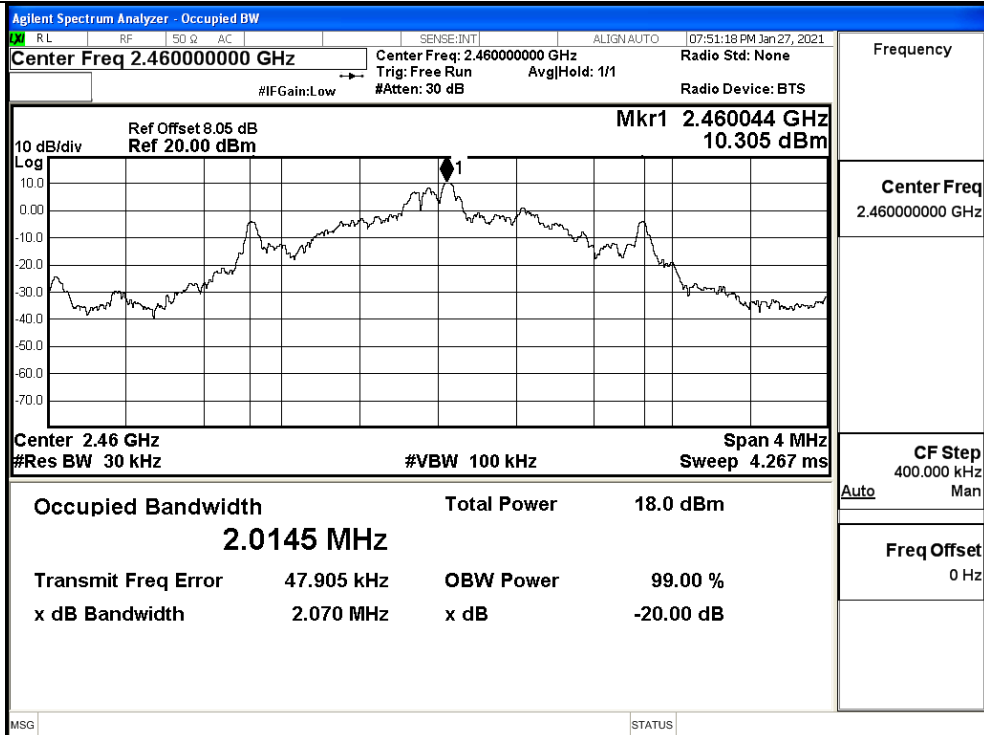
GFSK/LCH



GFSK/MCH



GFSK/HCH

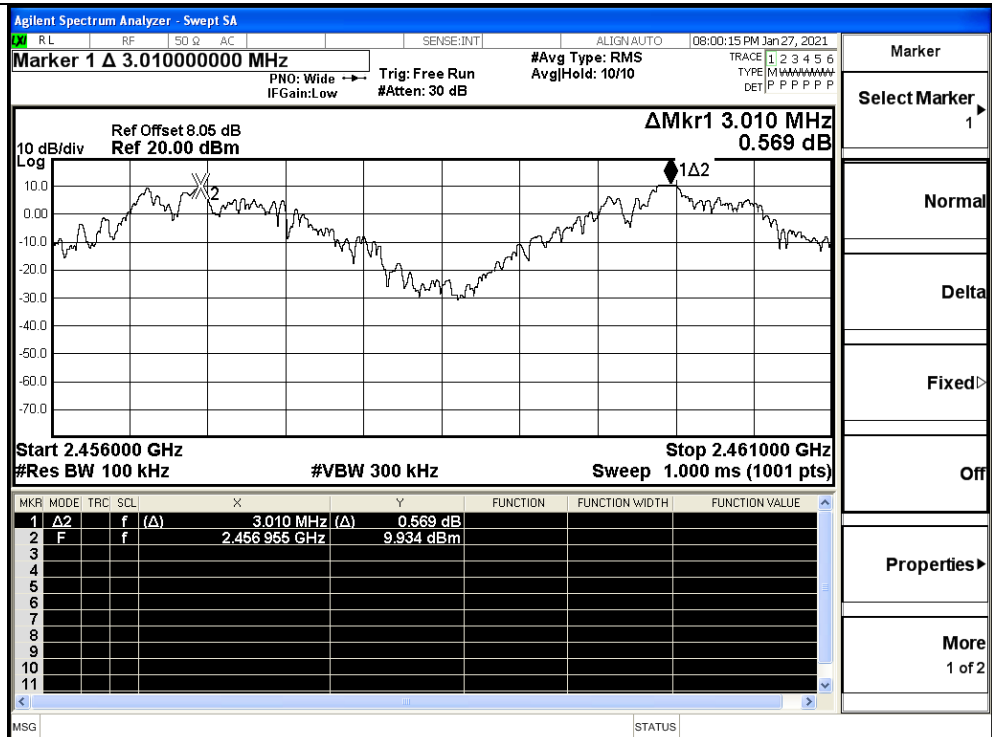


A.3 Carrier Frequency Separation

Mode	Channel	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	3.011	1.375	PASS
	MCH	3.015	1.375	PASS
	HCH	3.010	1.375	PASS

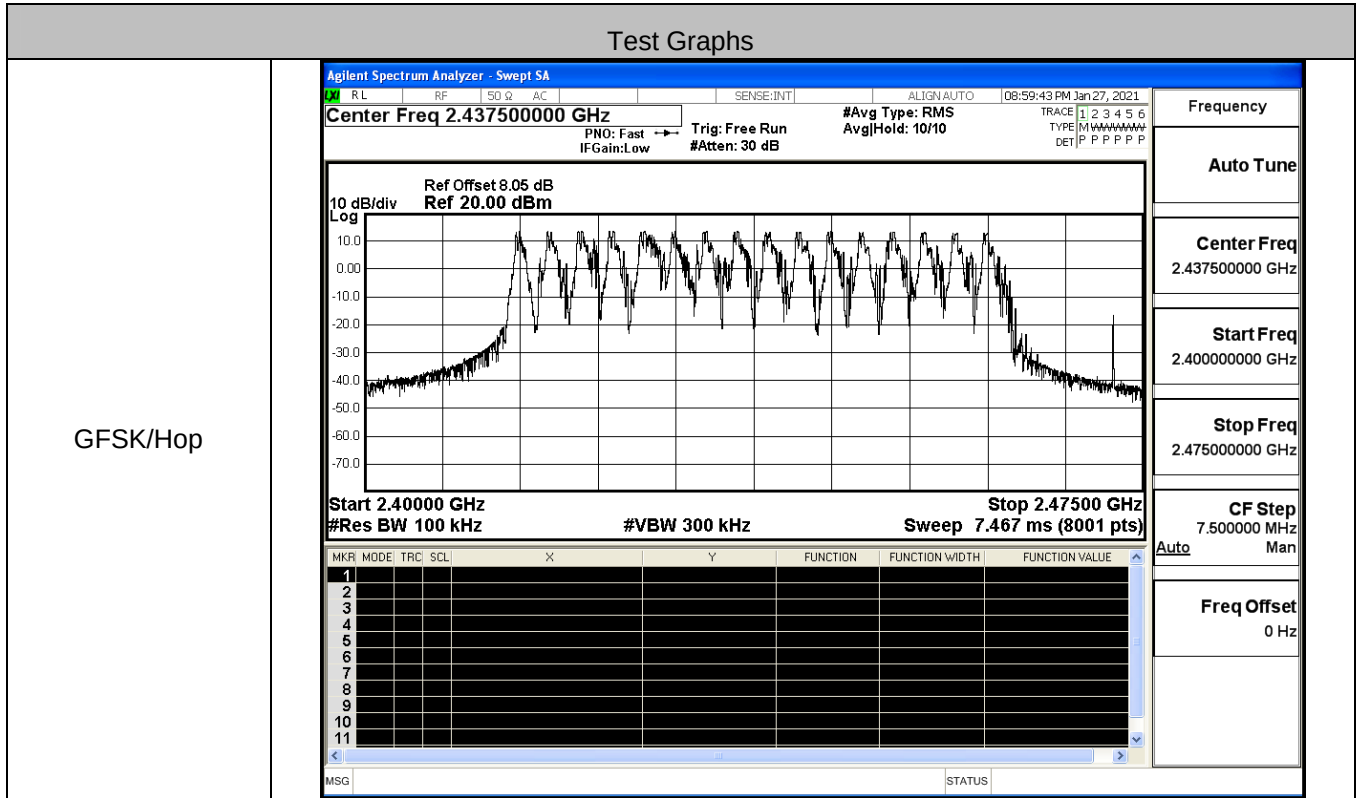
Test Graphs				
GFSK/LCH	Agilent Spectrum Analyzer - Swept SA Center Freq 2.416500000 GHz Ref Offset 8.05 dB Ref 20.00 dBm ΔMkr1 3.011 875 MHz -2.316 dB Start 2.414000 GHz #Res BW 100 kHz Stop 2.419000 GHz #VBW 300 kHz Sweep 1.067 ms (8001 pts)			Frequency Auto Tune Center Freq 2.416500000 GHz Start Freq 2.414000000 GHz Stop Freq 2.419000000 GHz CF Step 500.000 kHz Auto Freq Offset 0 Hz
	Marker 1 Δ 3.015000000 MHz ΔMkr1 3.015 MHz -0.693 dB Start 2.435000 GHz #Res BW 100 kHz Stop 2.440000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)			Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More 1 of 2
	Marker 1 Δ 3.015000000 MHz ΔMkr1 3.015 MHz -0.693 dB Start 2.435000 GHz #Res BW 100 kHz Stop 2.440000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)			
	Marker 1 Δ 3.015000000 MHz ΔMkr1 3.015 MHz -0.693 dB Start 2.435000 GHz #Res BW 100 kHz Stop 2.440000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)			
	Marker 1 Δ 3.015000000 MHz ΔMkr1 3.015 MHz -0.693 dB Start 2.435000 GHz #Res BW 100 kHz Stop 2.440000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)			
GFSK/MCH	Agilent Spectrum Analyzer - Swept SA Marker 1 Δ 3.015000000 MHz ΔMkr1 3.015 MHz -0.693 dB Start 2.435000 GHz #Res BW 100 kHz Stop 2.440000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)			Frequency Auto Tune Center Freq 2.416500000 GHz Start Freq 2.414000000 GHz Stop Freq 2.419000000 GHz CF Step 500.000 kHz Auto Freq Offset 0 Hz
	Marker 1 Δ 3.015000000 MHz ΔMkr1 3.015 MHz -0.693 dB Start 2.435000 GHz #Res BW 100 kHz Stop 2.440000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)			Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More 1 of 2
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	Marker 1 Δ 3.015000000 MHz ΔMkr1 3.015 MHz -0.693 dB Start 2.435000 GHz #Res BW 100 kHz Stop 2.440000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)			

GFSK/HCH



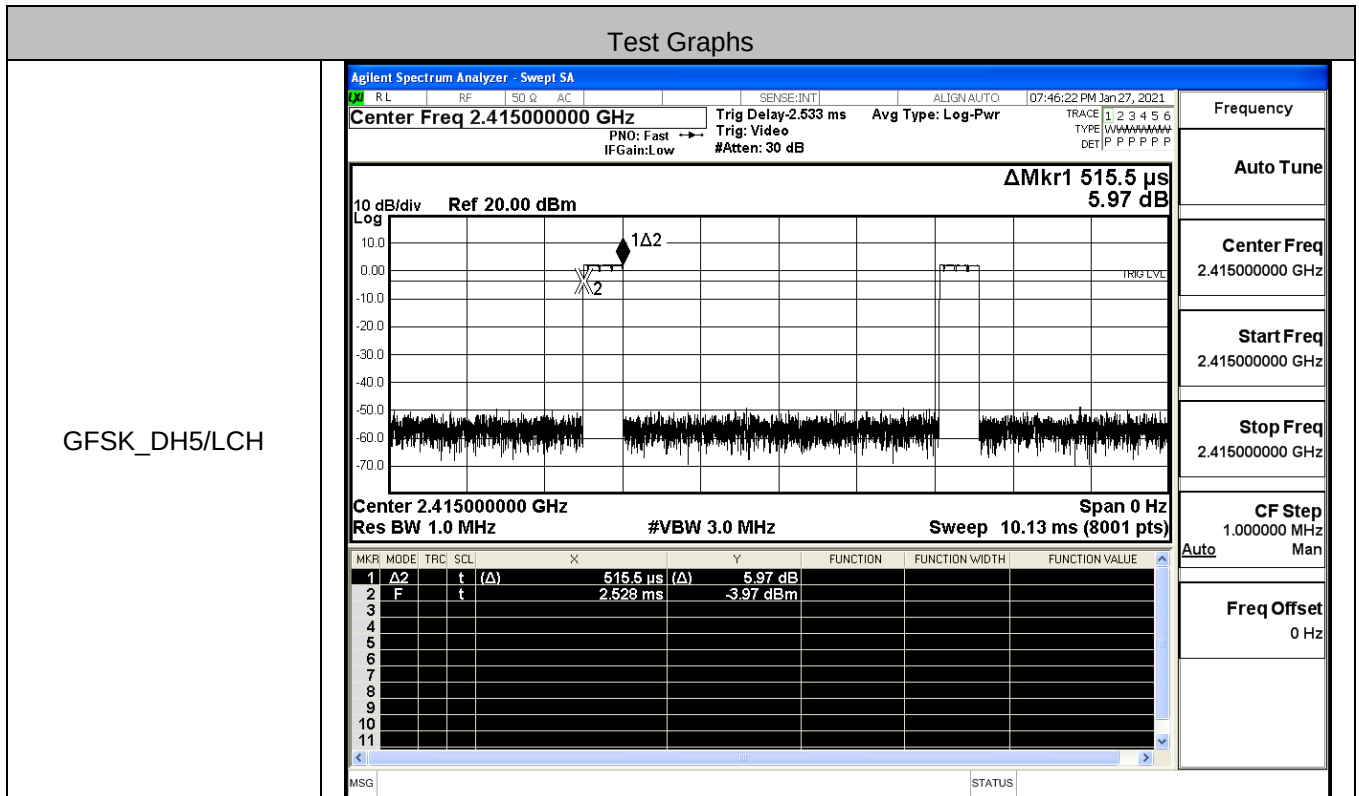
A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	16	>=15	PASS

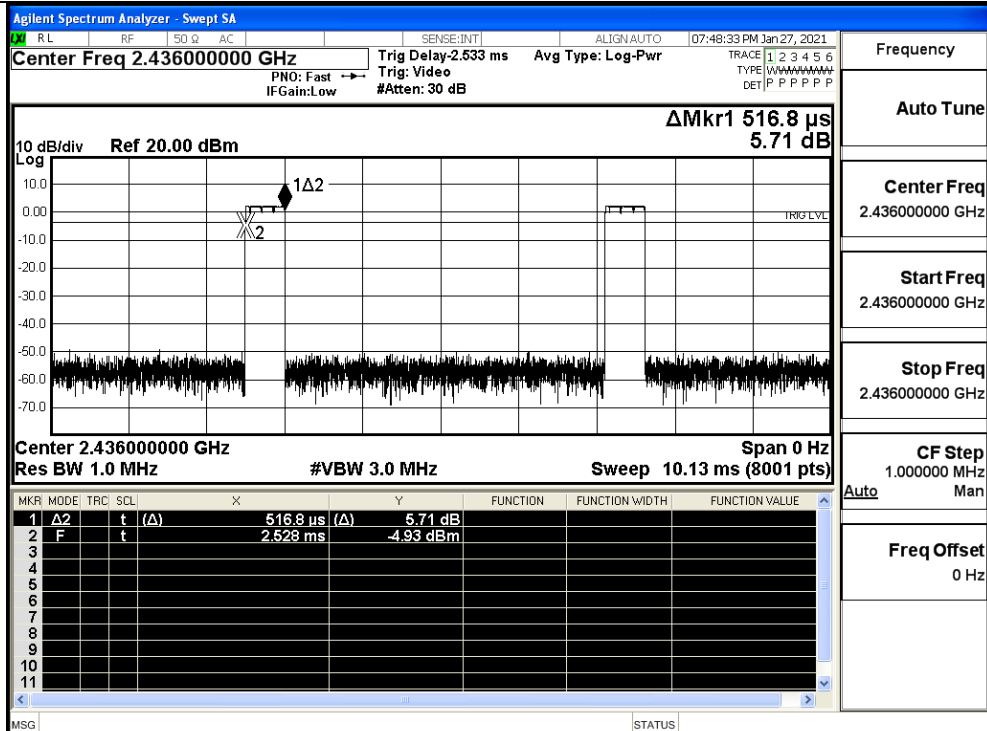


A.5 Dwell Time

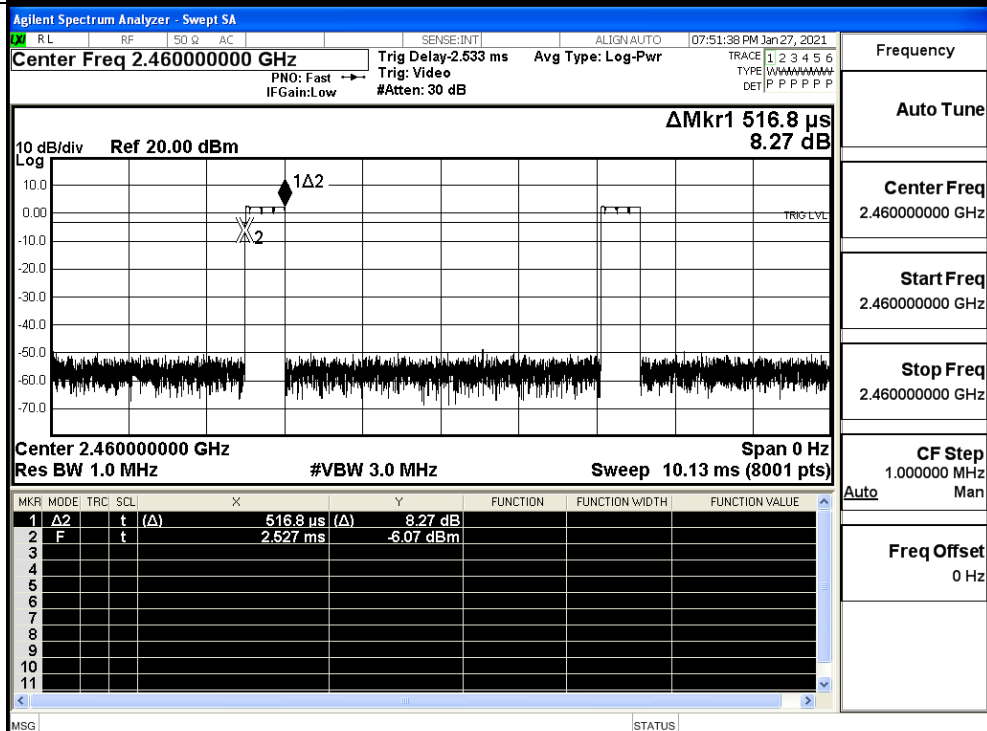
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	0.52	106.7	0.055	0.4	PASS
	DH5	MCH	0.52	106.7	0.055	0.4	PASS
	DH5	HCH	0.52	106.7	0.055	0.4	PASS



GFSK_DH5/MCH



GFSK_DH5/HCH

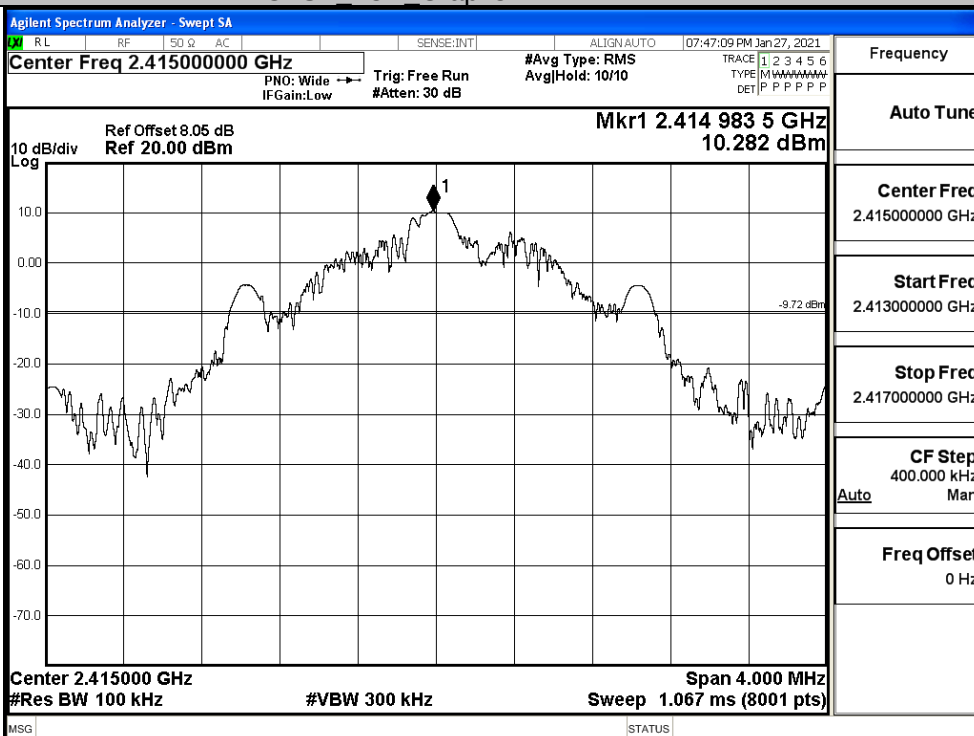


A.6 RF Conducted Spurious Emissions

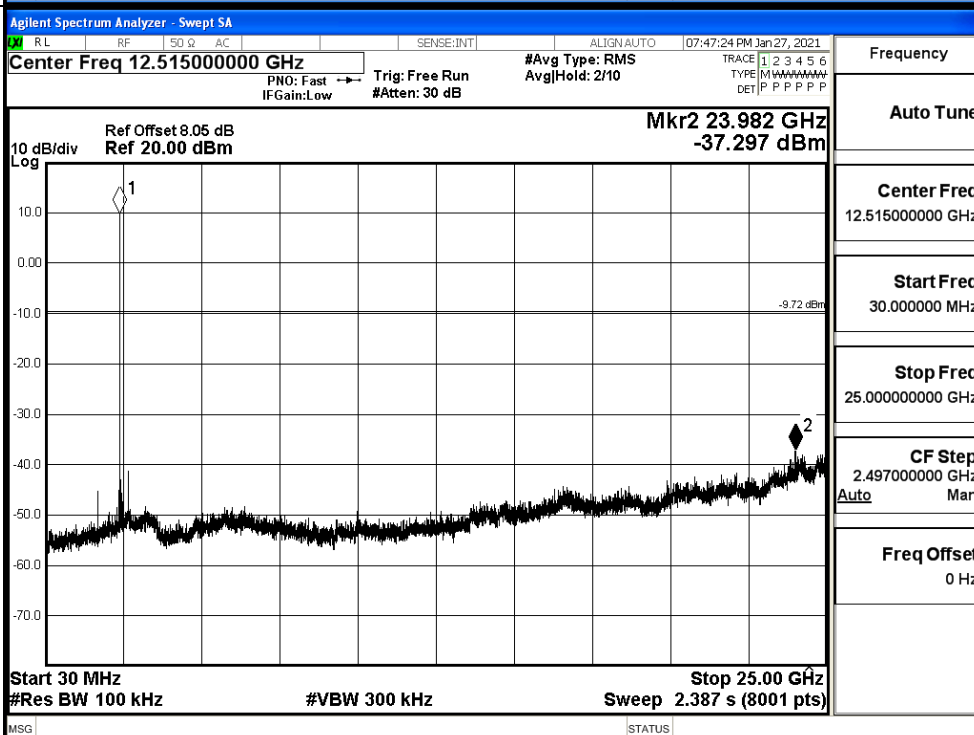
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	10.282	-37.297	-9.72	PASS
	MCH	10.280	-37.397	-9.72	PASS
	HCH	10.319	-37.286	-9.68	PASS

GFSK LCH Graphs

Pref

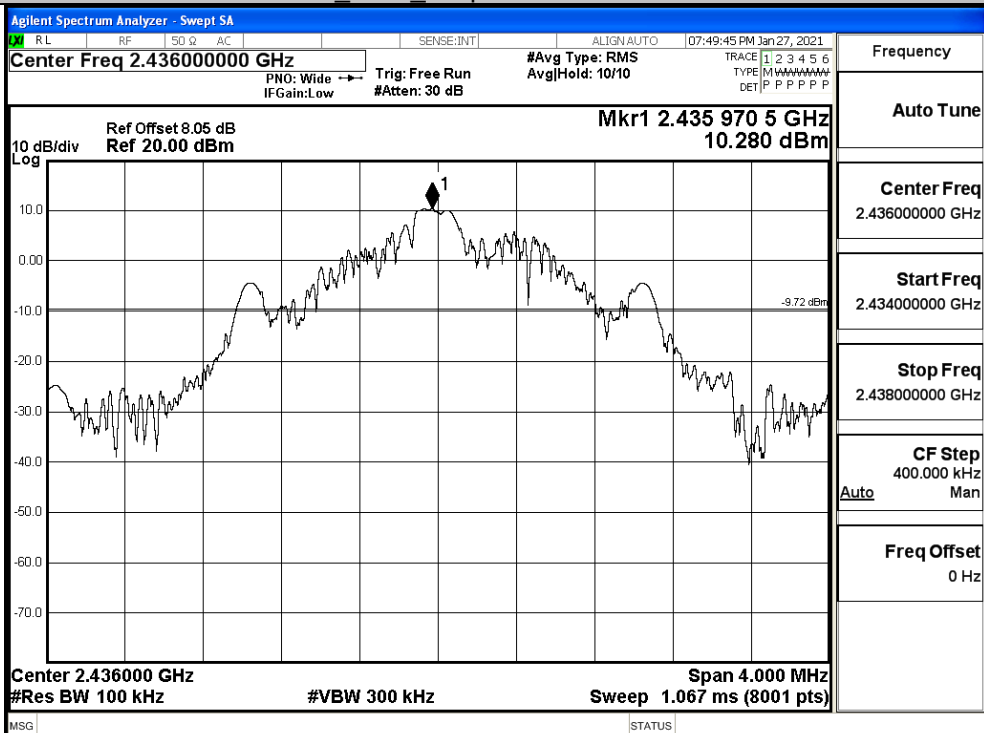


Puw

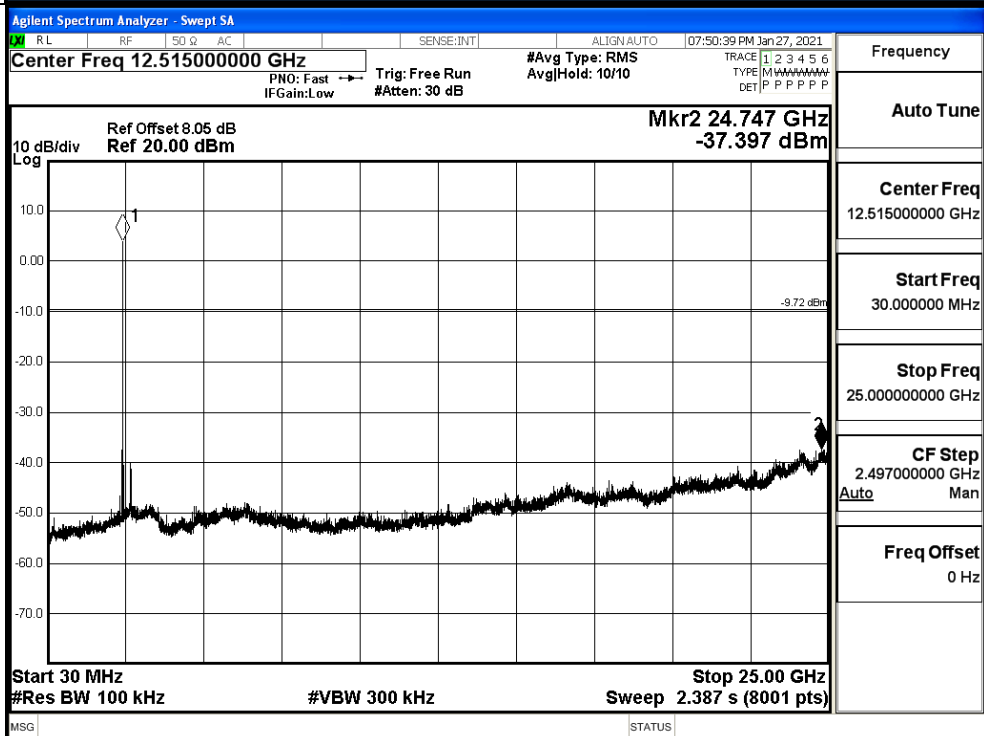


GFSK MCH Graphs

Pref

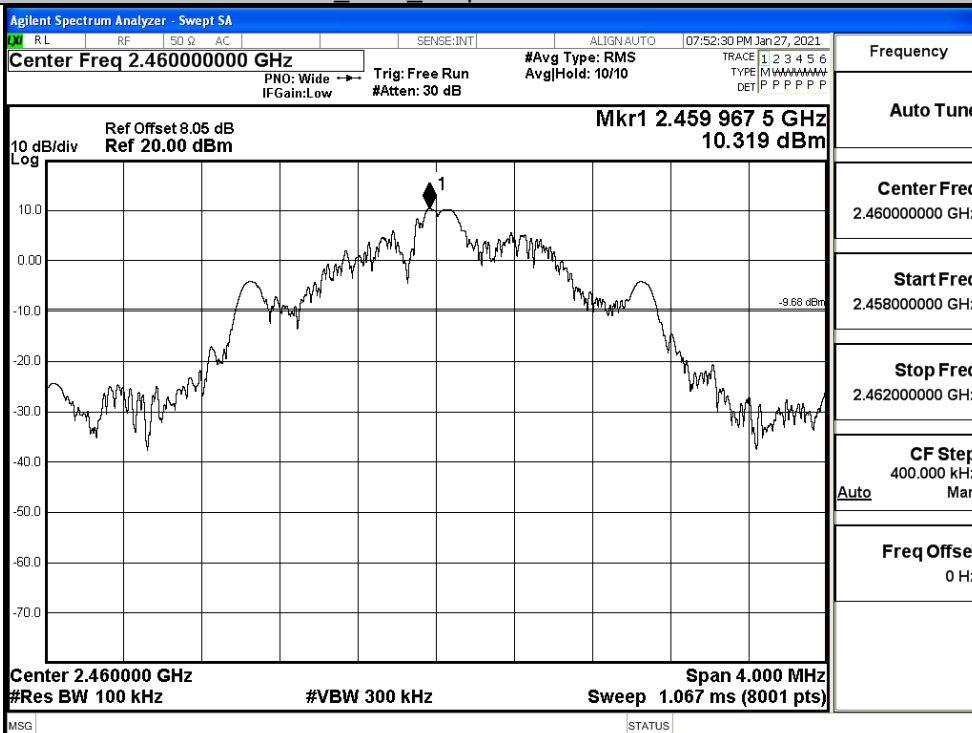


Puw



GFSK HCH_Graphs

Pref



Puw

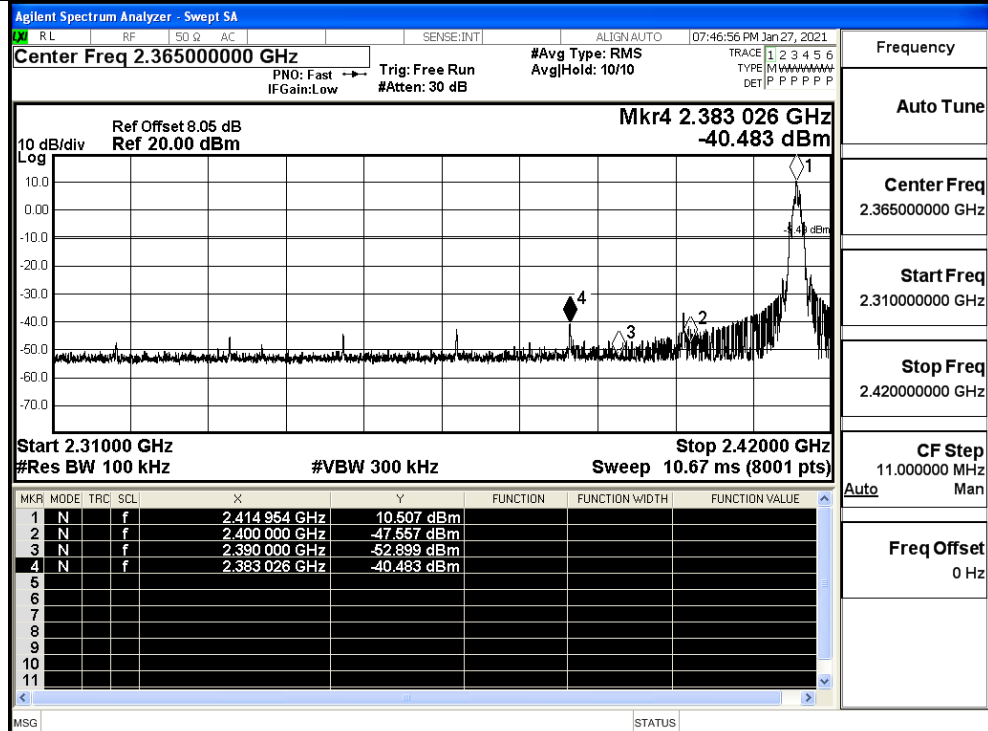


A.7 Band-edge for RF Conducted Emissions

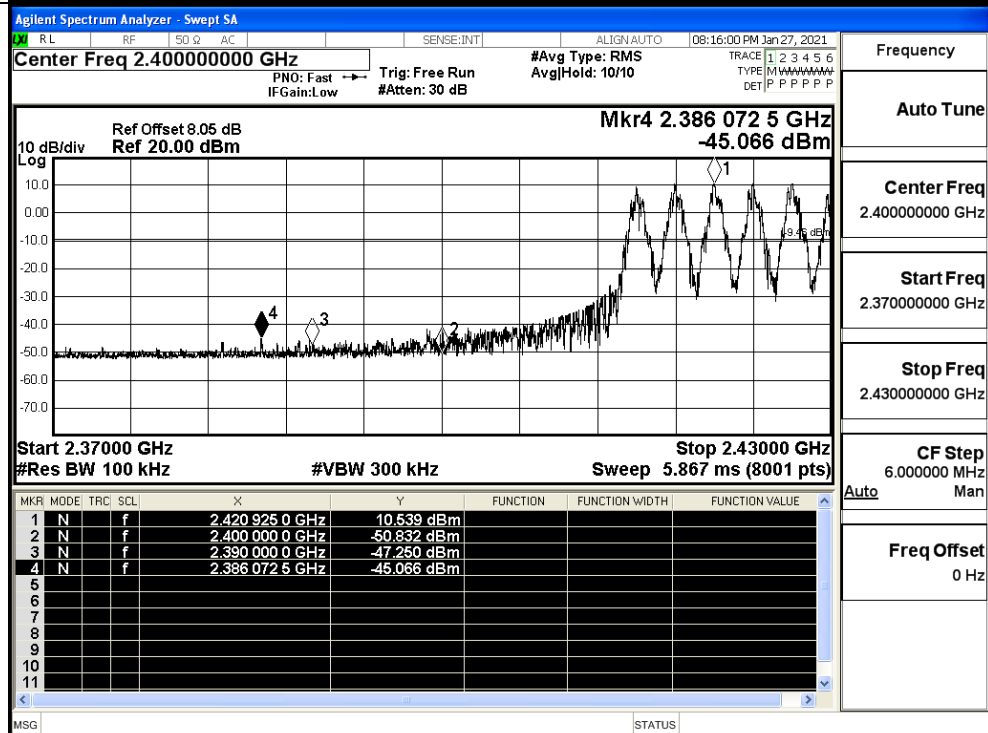
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2415	10.507	Off	-40.483	-9.49	PASS
			10.539	On	-45.066	-9.46	PASS
	HCH	2460	10.846	Off	-41.922	-9.16	PASS
			10.686	On	-46.426	-9.31	PASS

Test Graphs

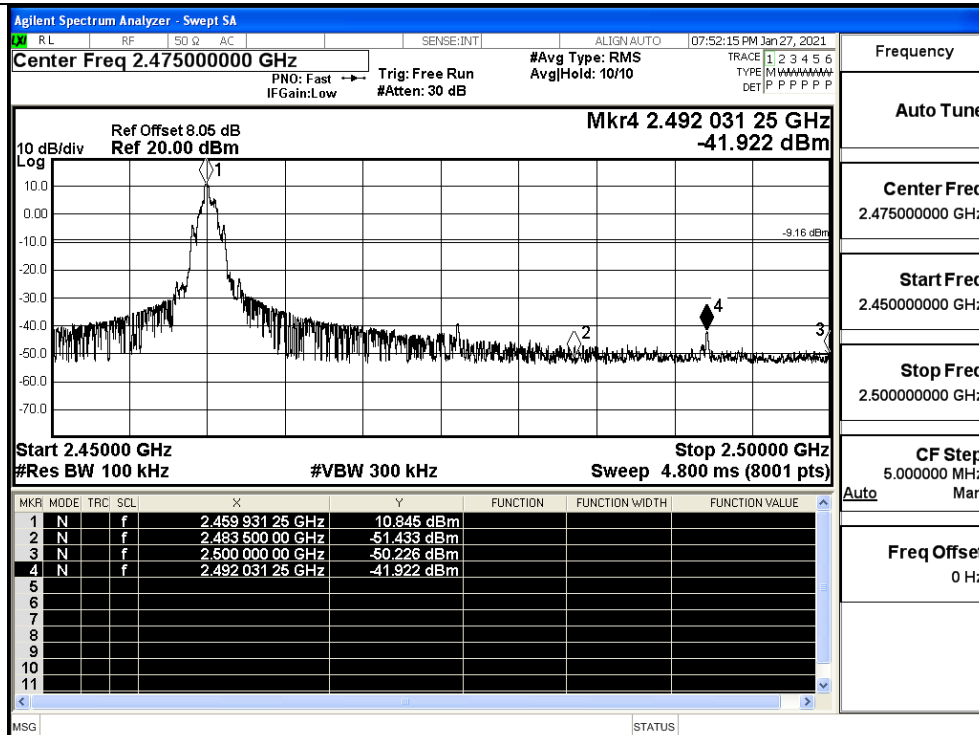
GFSK/LCH/No Hop



GFSK/LCH/Hop



GFSK/HCH/No Hop



Frequency

Auto Tune

Center Freq
2.475000000 GHz

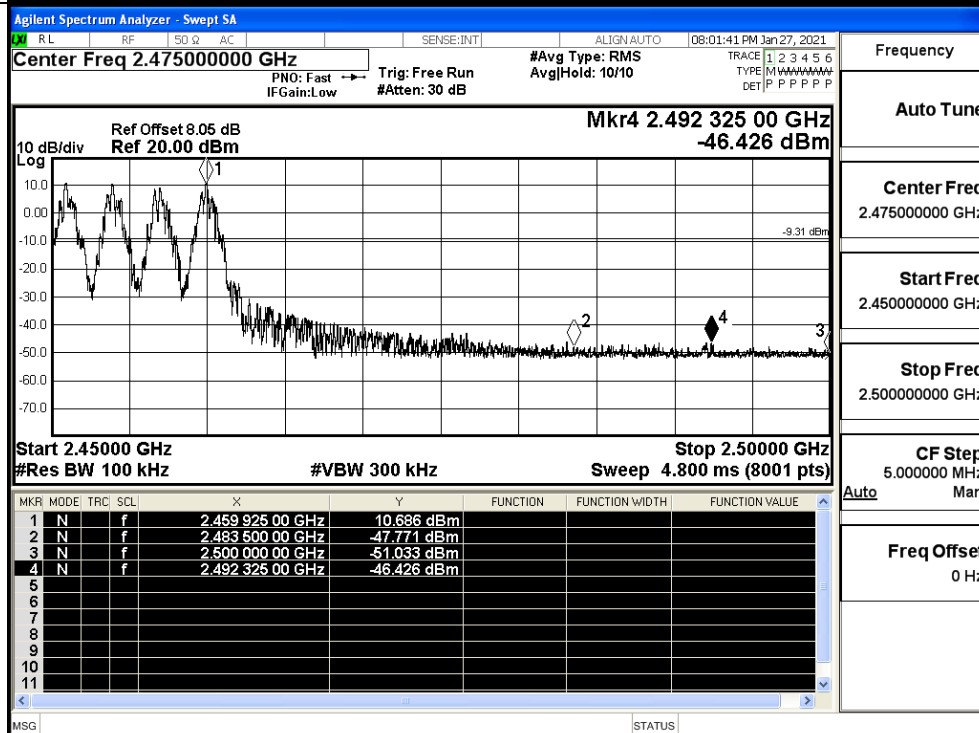
Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

CF Step
5.000000 MHz
Auto Man

Freq Offset
0 Hz

GFSK/HCH/Hop



Frequency

Auto Tune

Center Freq
2.475000000 GHz

Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

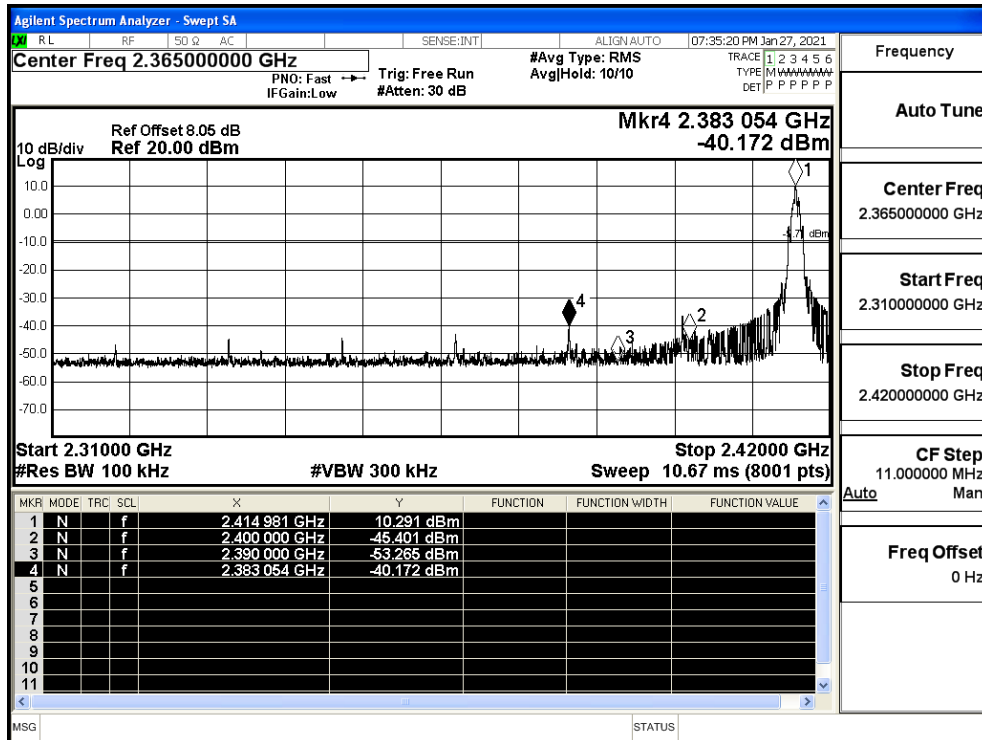
CF Step
5.000000 MHz
Auto Man

Freq Offset
0 Hz

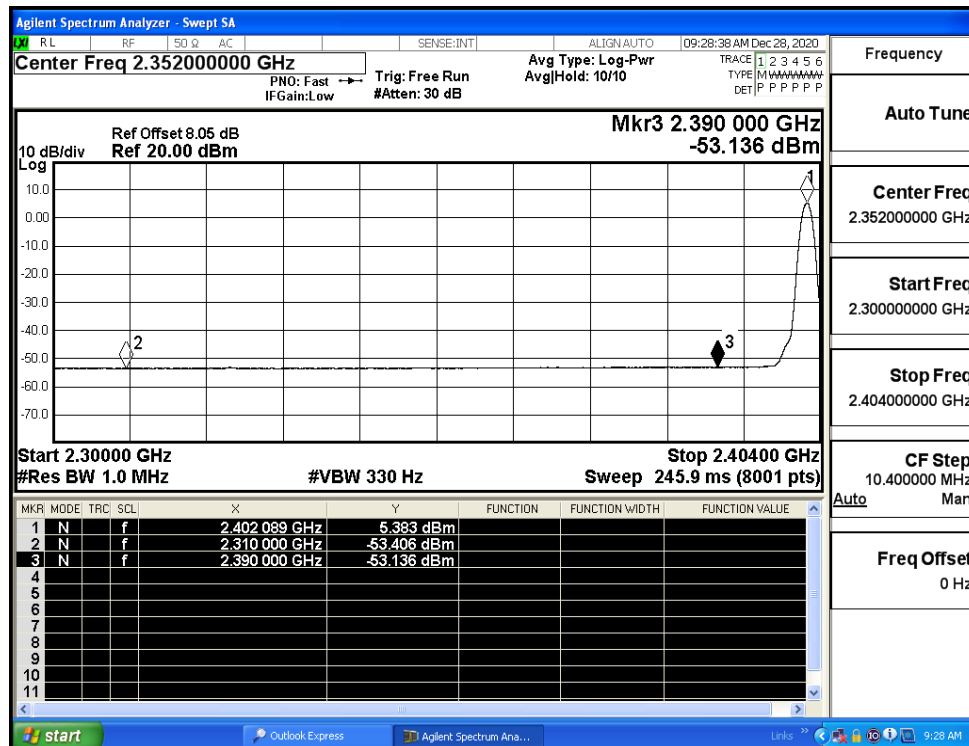
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-44.50	2.0	0	50.76	PEAK	74	PASS
	Off	2310.0	-53.41	2.0	0	41.85	AV	54	PASS
	Off	2390.0	-42.57	2.0	0	52.69	PEAK	74	PASS
	Off	2390.0	-53.14	2.0	0	42.12	AV	54	PASS
	Off	2483.5	-35.49	2.0	0	59.77	PEAK	74	PASS
	Off	2483.5	-45.48	2.0	0	49.77	AV	54	PASS
	Off	2500.0	-41.66	2.0	0	53.60	PEAK	74	PASS
	Off	2500.0	-52.41	2.0	0	42.85	AV	54	PASS

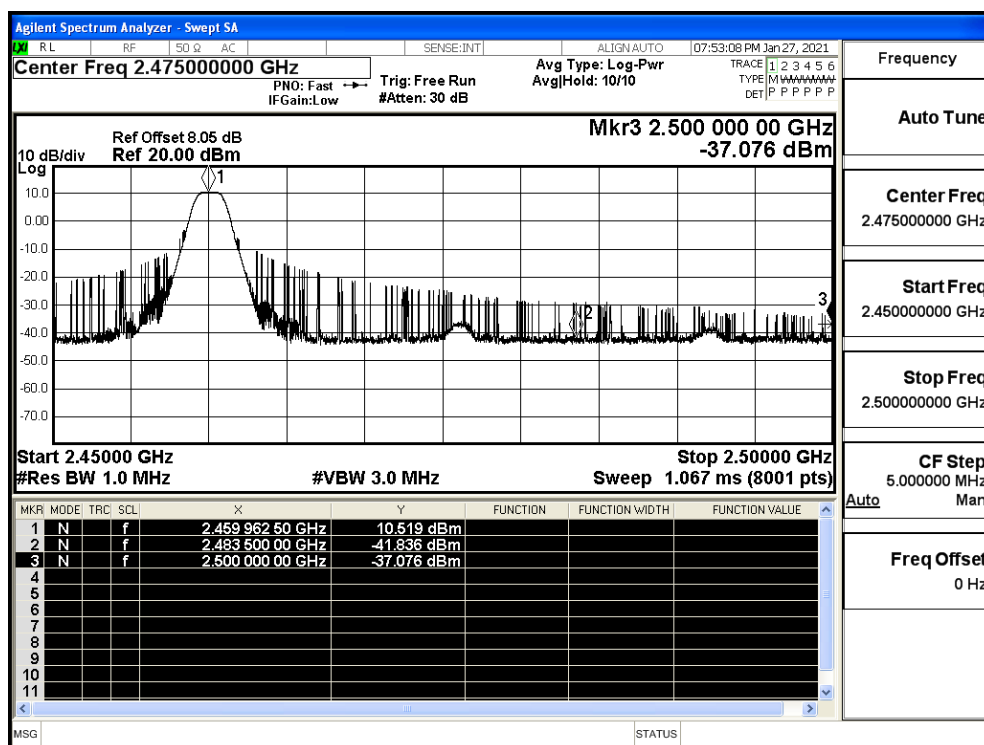
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



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)

