

Appendix A

RF Test Data for GFSK (Conducted Measurement)

Product Name: Digital Video Baby Monitor

Trade Mark: /

Test Model: VB603-C

Environmental Conditions

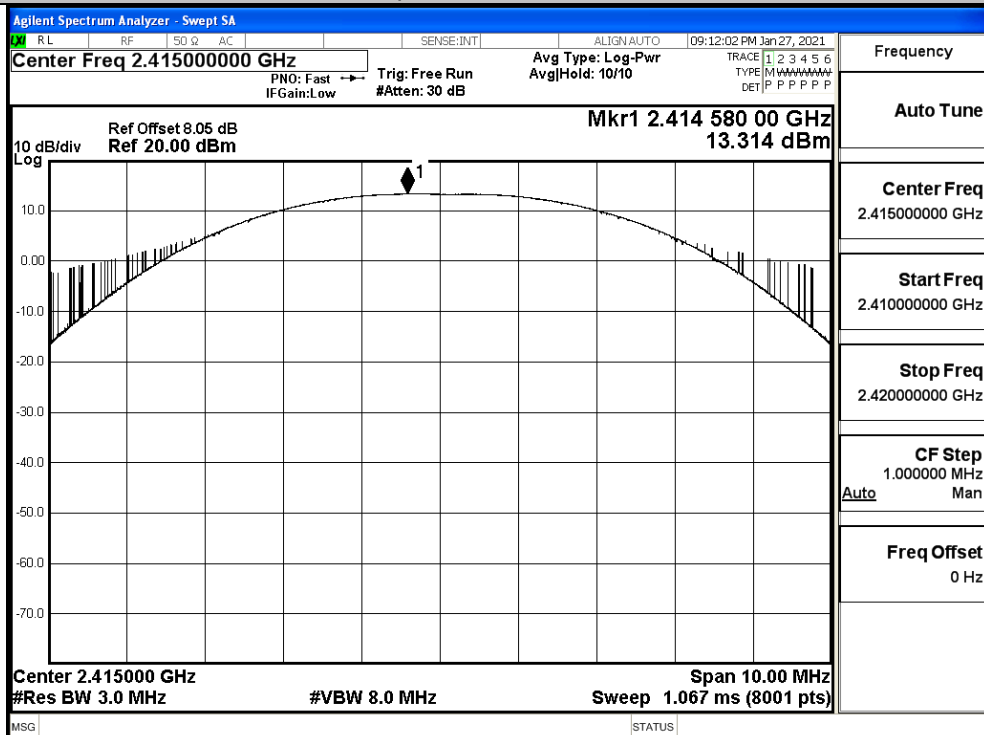
Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

A.1 Maxmum Conducted Peak Output Power

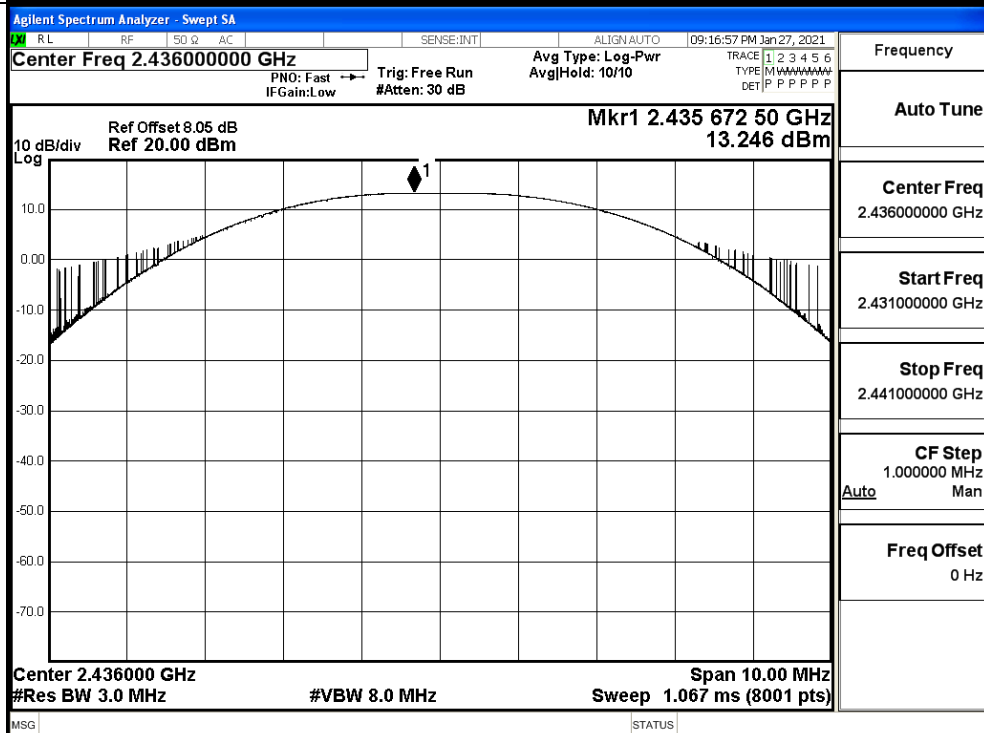
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	13.314	21	PASS
	MCH	13.246	21	PASS
	HCH	12.695	21	PASS

Test Graphs

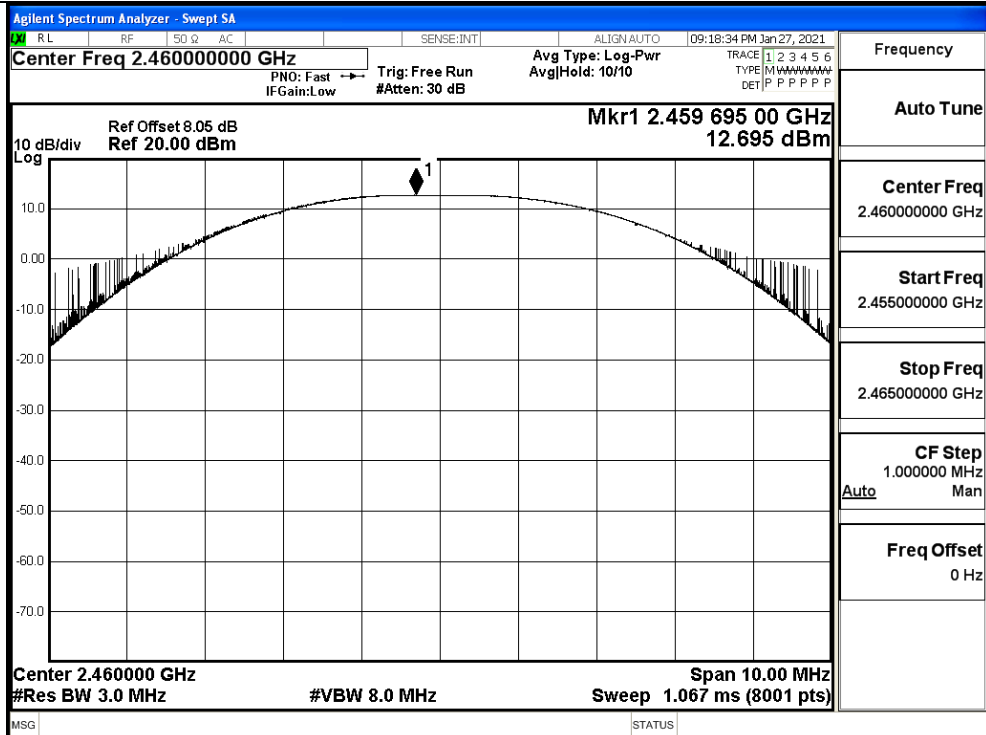
GFSK/LCH



GFSK/MCH



GFSK/HCH



A.2 20dB Bandwidth

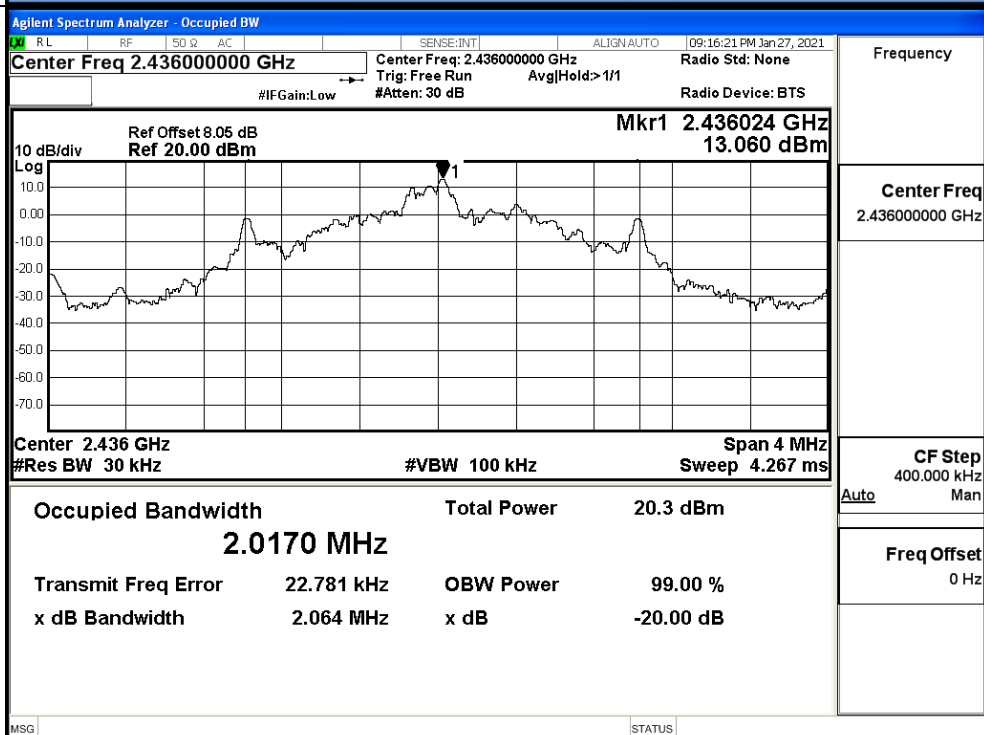
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	2.063	Not Specified	PASS
	MCH	2.064	Not Specified	PASS
	HCH	2.068	Not Specified	PASS

Test Graphs

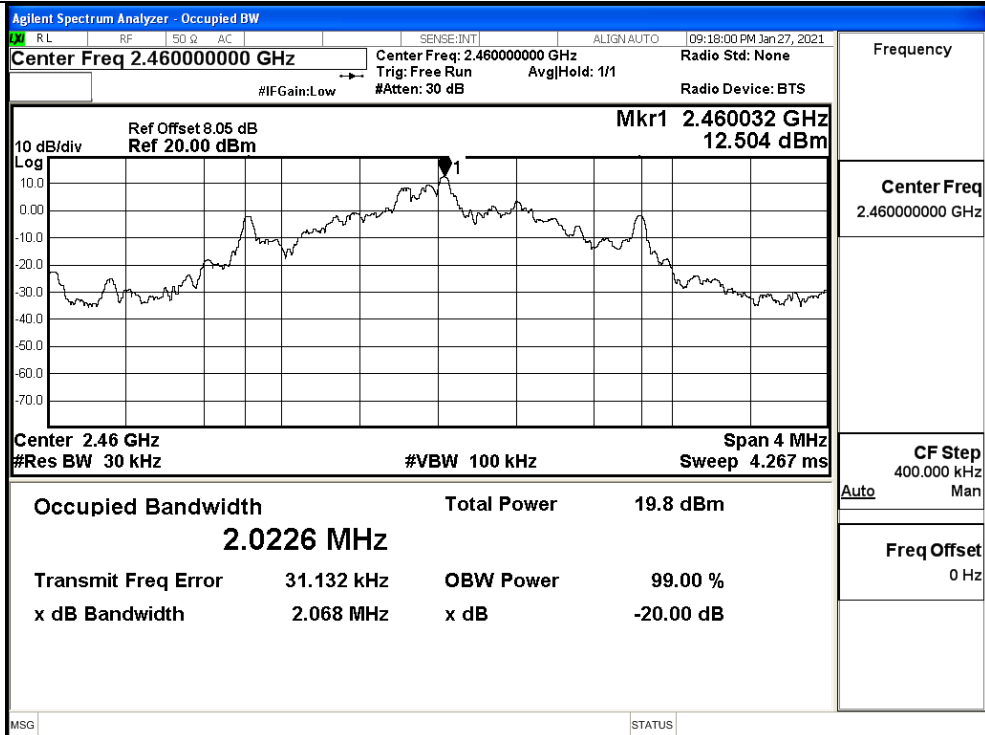
GFSK/LCH



GFSK/MCH

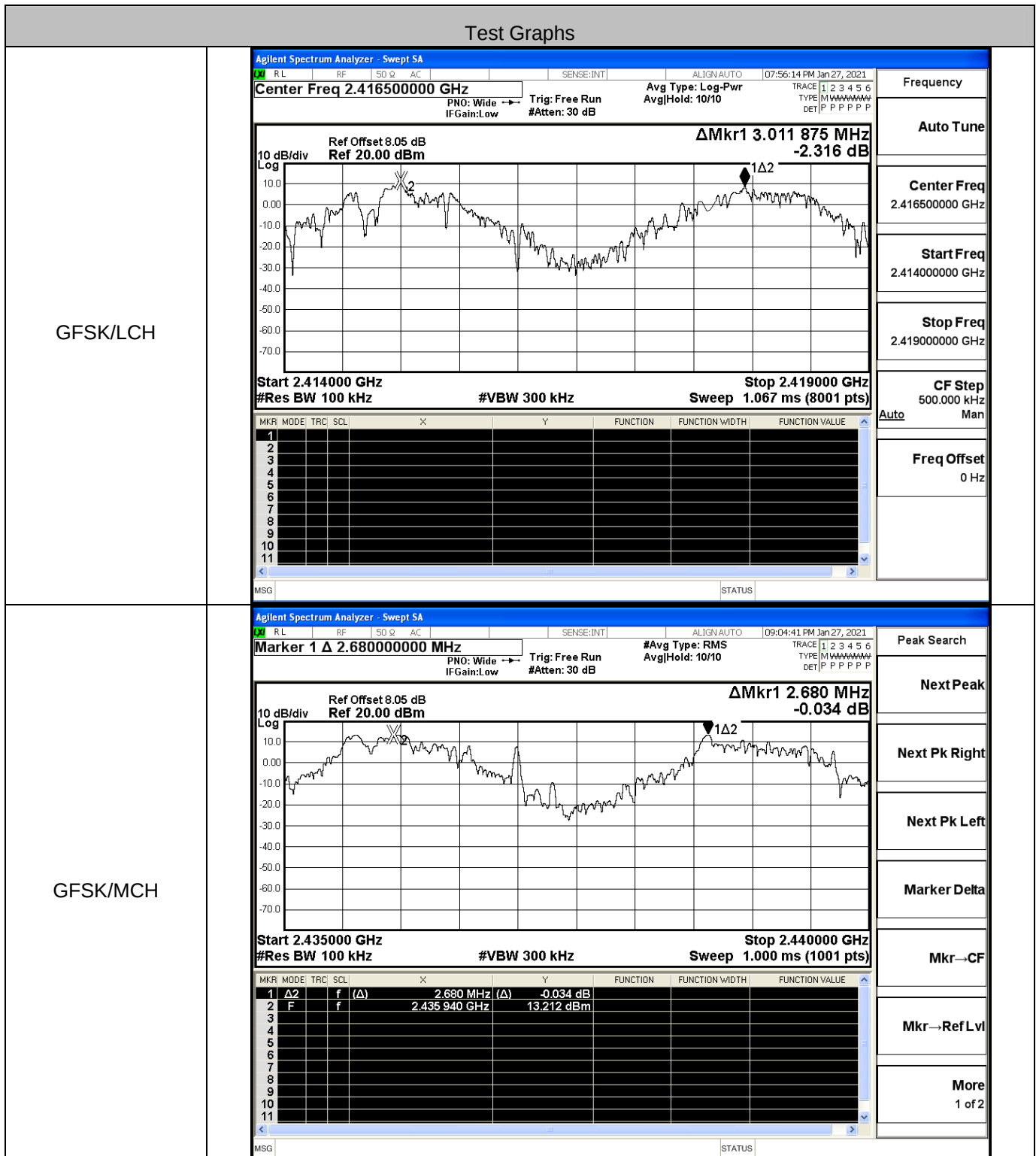


GFSK/HCH



A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	3.011	1.375	PASS
	MCH	2.68	1.375	PASS
	HCH	2.66	1.375	PASS



Agilent Spectrum Analyzer - Swept SA

R/L RF 50 Ω AC SENSE:INT ALIGN:AUTO 09:06:34 PM Jan 27, 2021

Marker 1 Δ 2.66000000 MHz PNO: Wide IFGain:Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 10/10 TRACE TYPE M W A V I N E T D E T P P P P P P

Ref Offset 8.05 dB Ref 20.00 dBm ΔMkr1 2.660 MHz 0.028 dB

MKR	MODE	FREQ	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	f	(Δ) 2.660 MHz	(Δ) 0.028 dB			
2	F	f	2.456 965 GHz	12.678 dBm			
3							
4							
5							
6							
7							
8							
9							
10							
11							

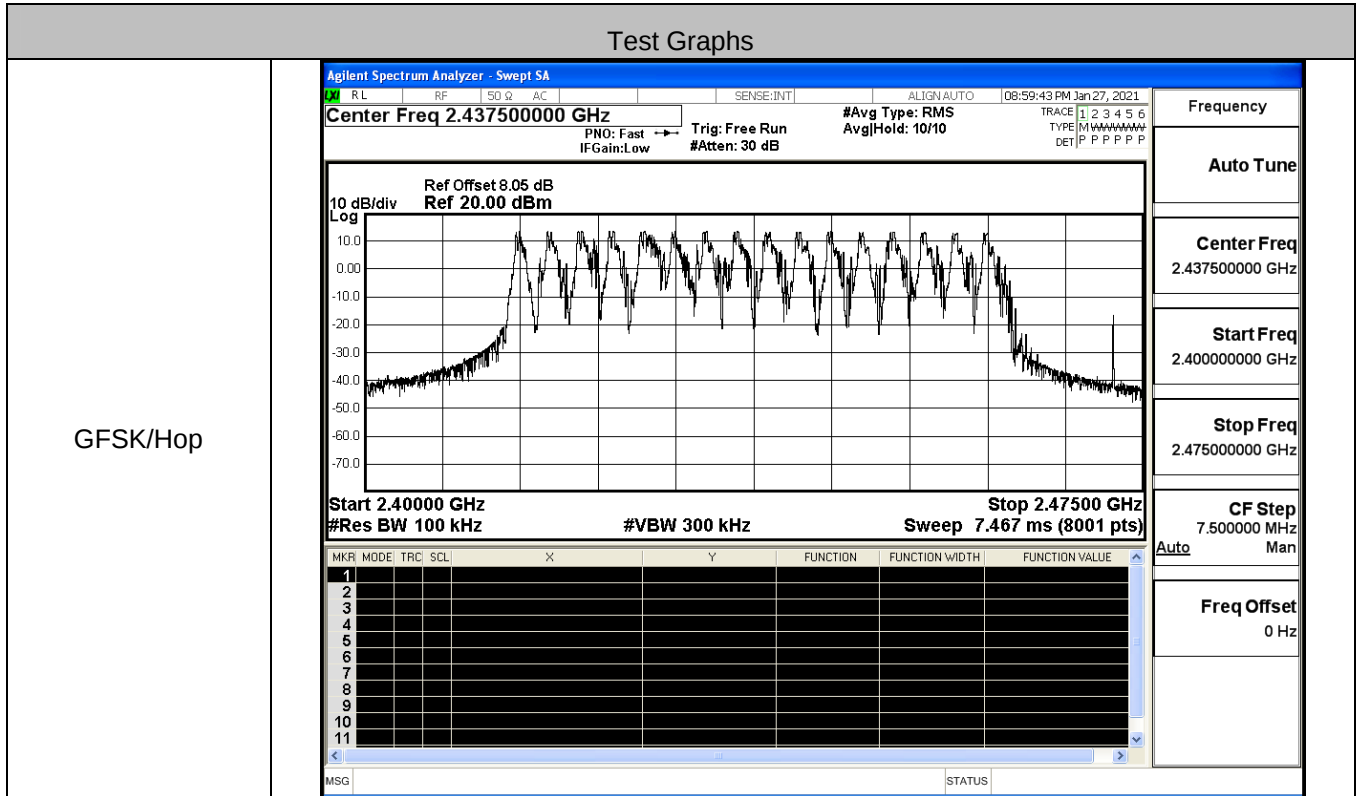
Start 2.456000 GHz Stop 2.461000 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)

< >

MSG STATUS

A.4 Hopping Channel Number

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

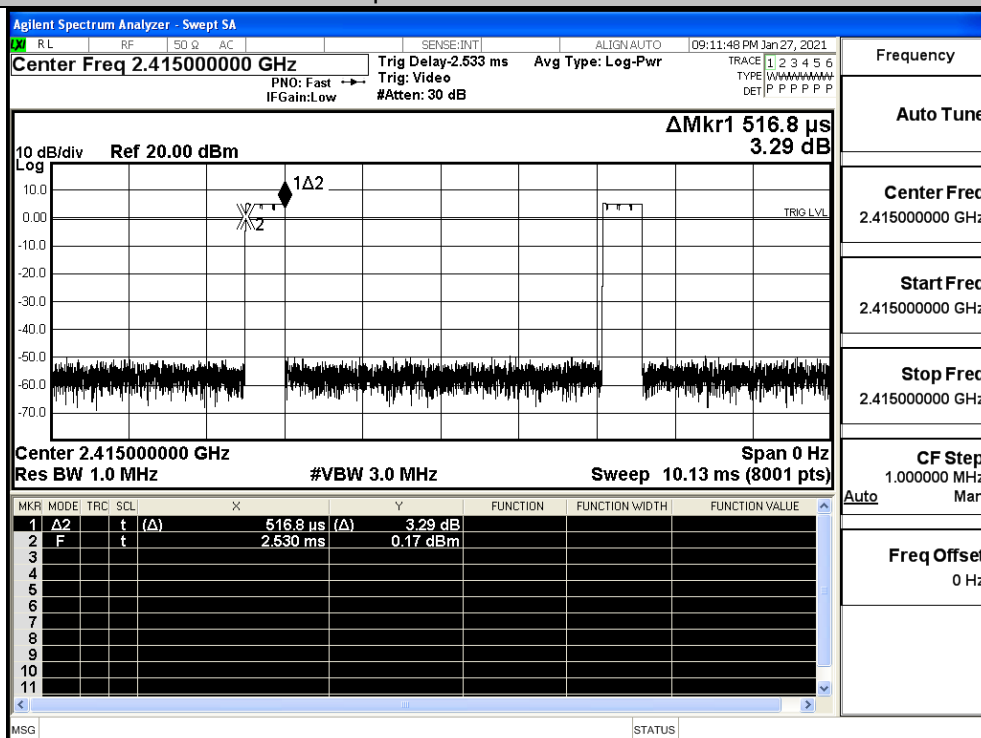


A.5 Dwell Time

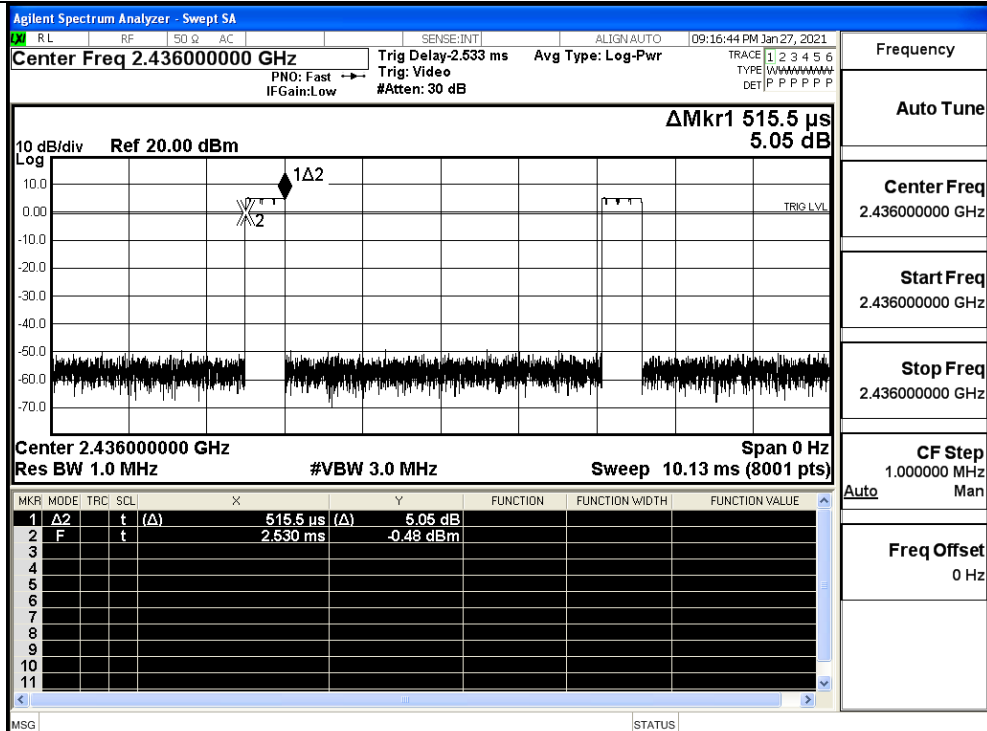
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	0.52	106.7	0.055	0.4	PASS
	DH5	MCH	0.52	106.7	0.055	0.4	PASS
	DH5	HCH	0.52	106.7	0.055	0.4	PASS

Test Graphs

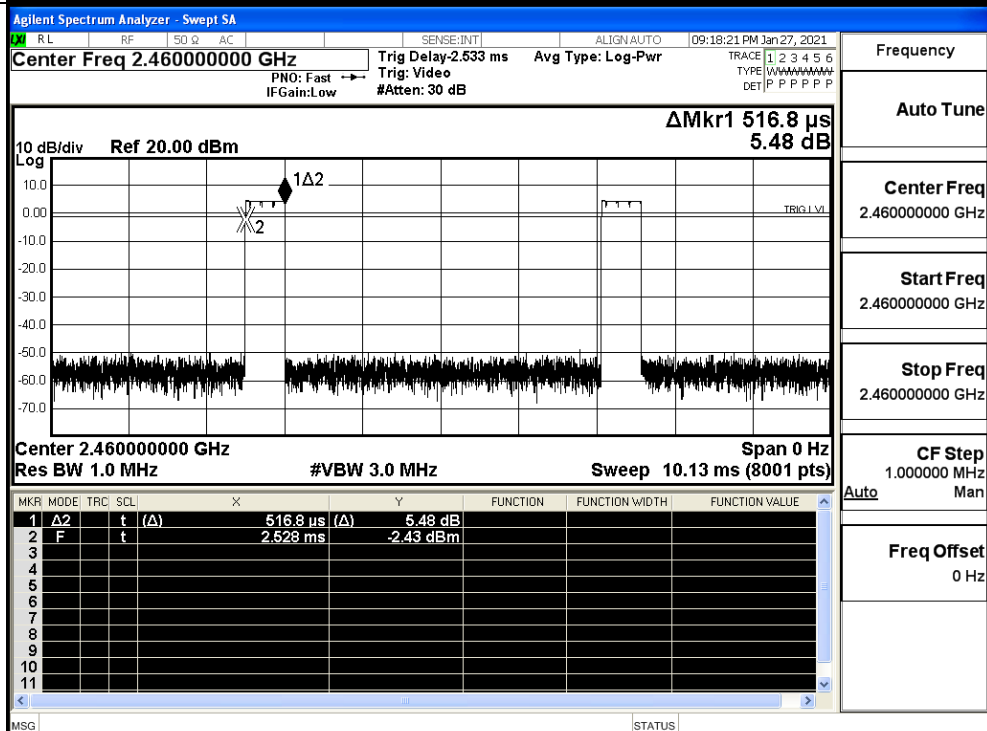
GFSK_DH5/LCH



GFSK_DH5/MCH



GFSK_DH5/HCH

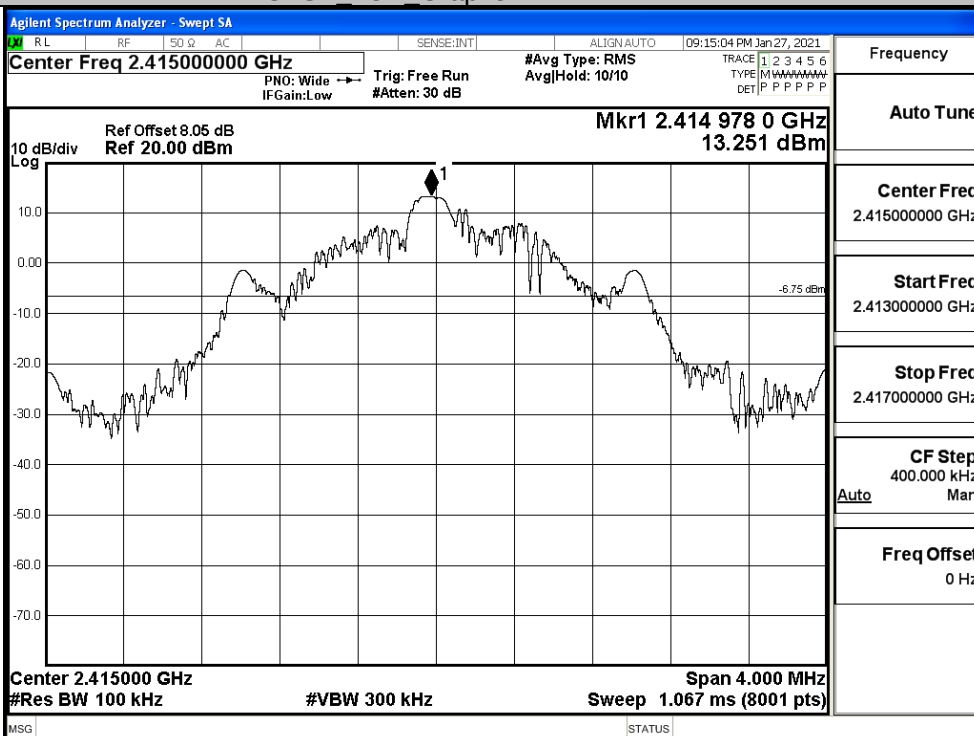


A.6 RF Conducted Spurious Emissions

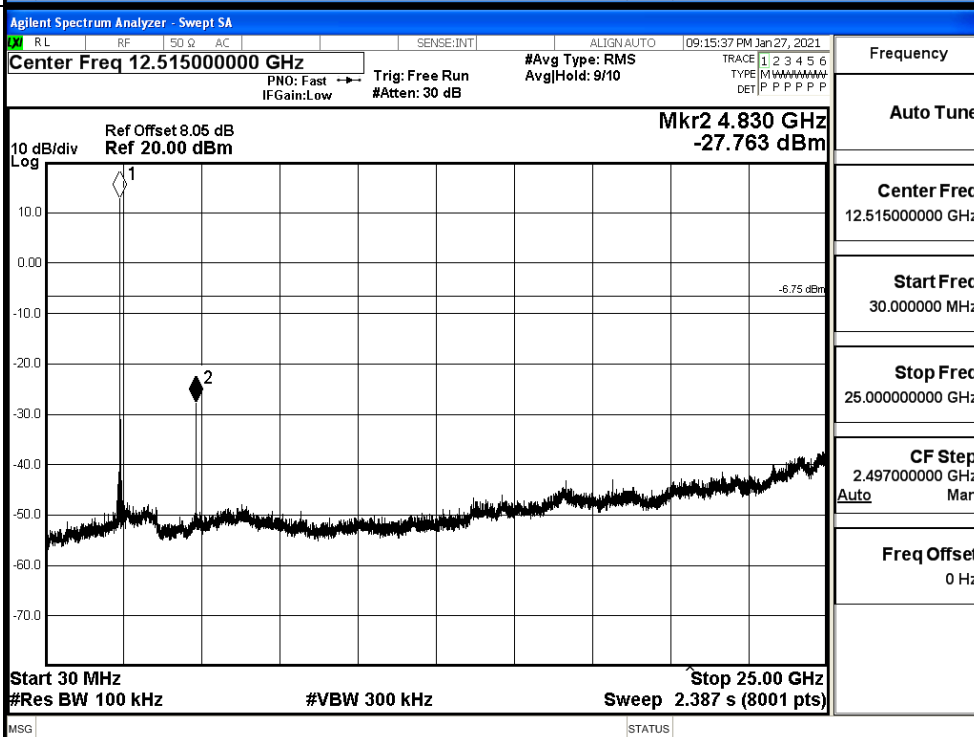
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	13.251	-27.763	-6.75	PASS
	MCH	13.205	-36.792	-6.80	PASS
	HCH	12.534	-36.765	-9.68	PASS

GFSK LCH Graphs

Pref

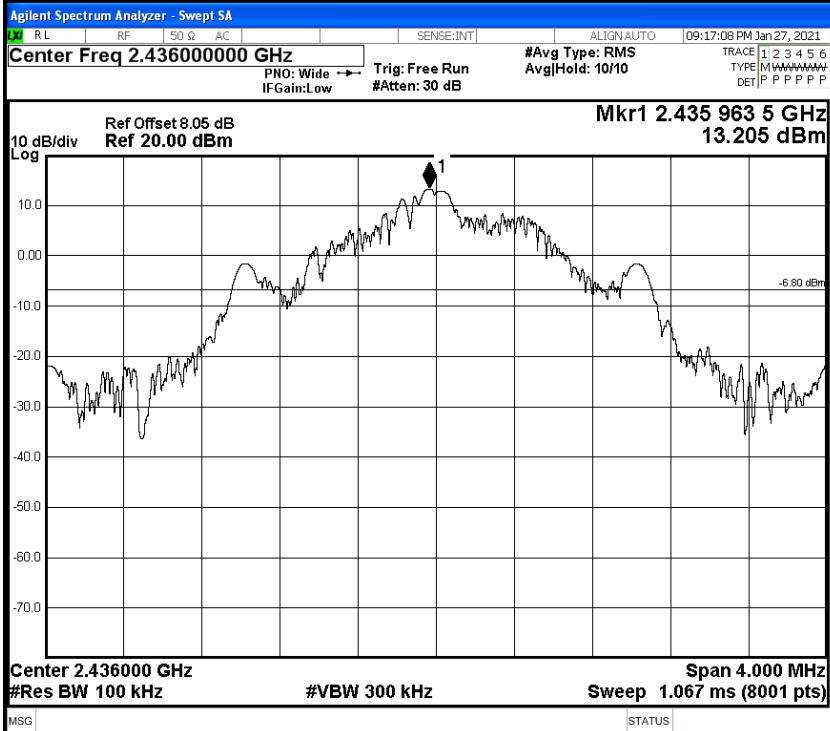


Puw



GFSK_MCH_Graphs

Pref

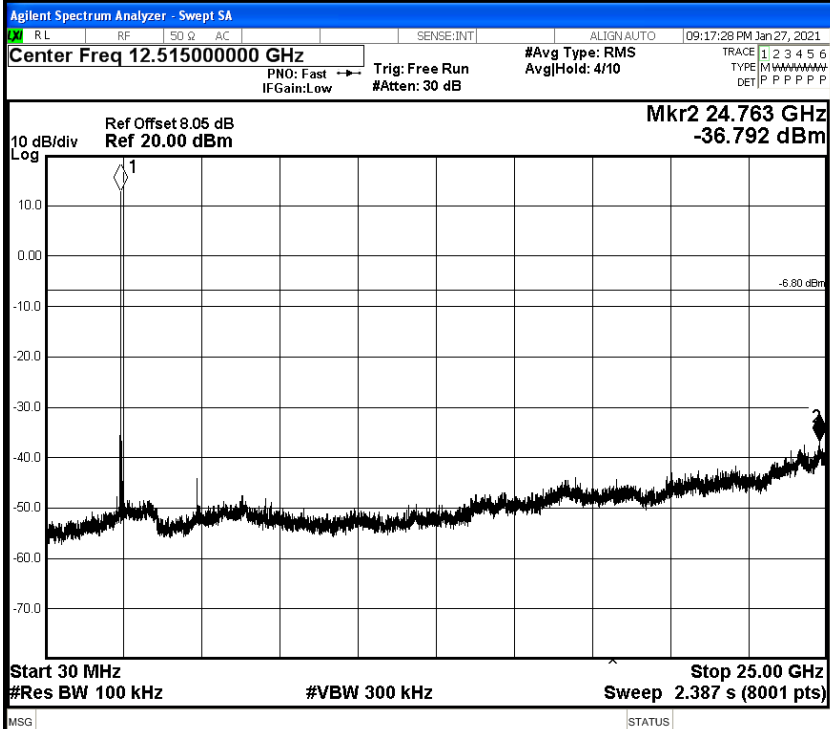


Frequency

Auto Tune

Center Freq
2.436000000 GHzStart Freq
2.434000000 GHzStop Freq
2.438000000 GHzCF Step
400.000 kHz
Auto ManFreq Offset
0 Hz

Puw



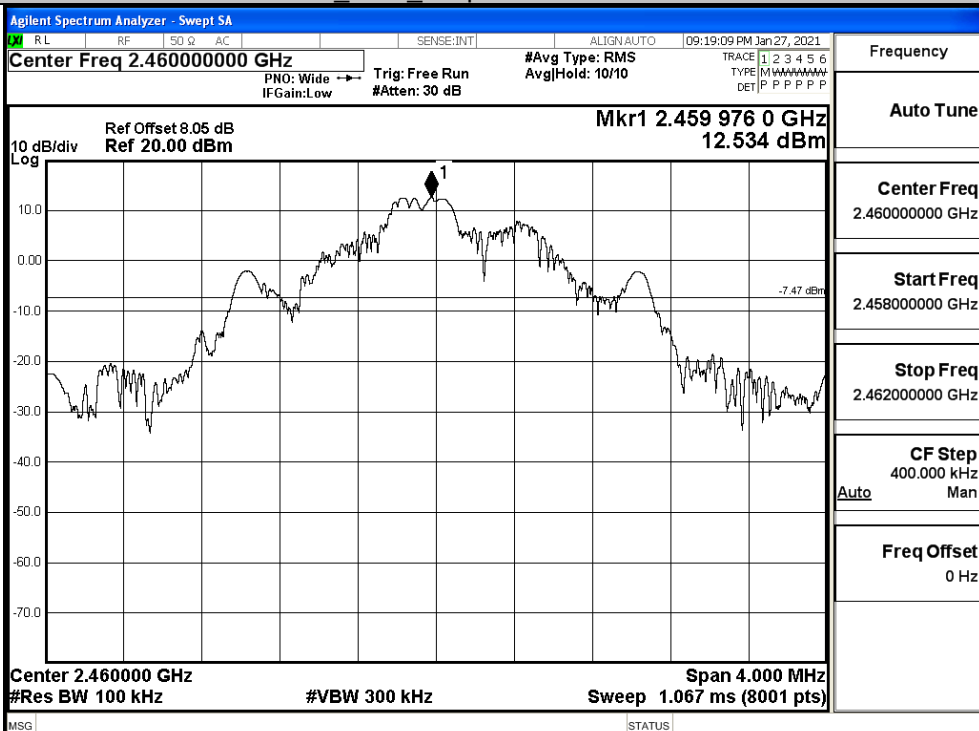
Frequency

Auto Tune

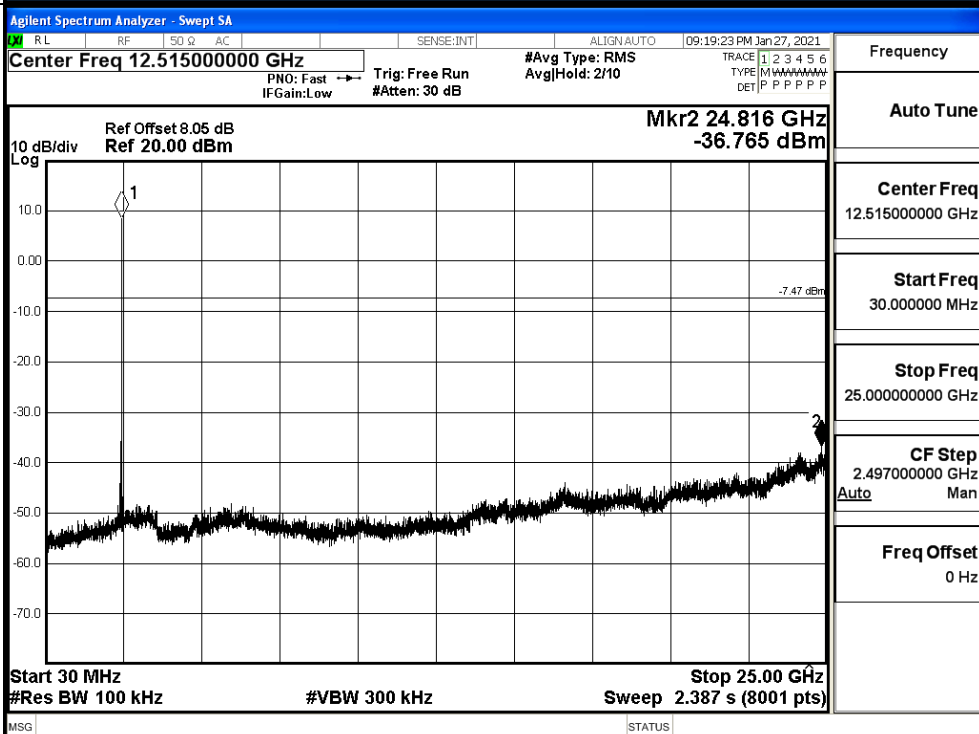
Center Freq
12.515000000 GHzStart Freq
30.0000000 MHzStop Freq
25.000000000 GHzCF Step
2.497000000 GHz
Auto ManFreq Offset
0 Hz

GFSK HCH_Graphs

Pref



Puw

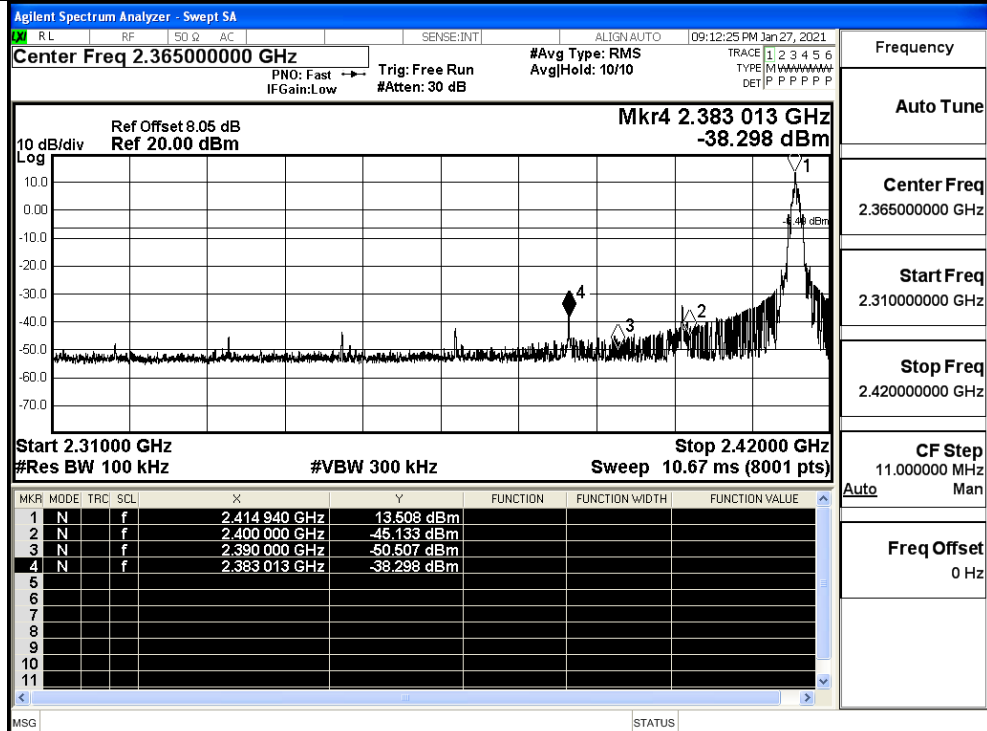


A.7 Band-edge for RF Conducted Emissions

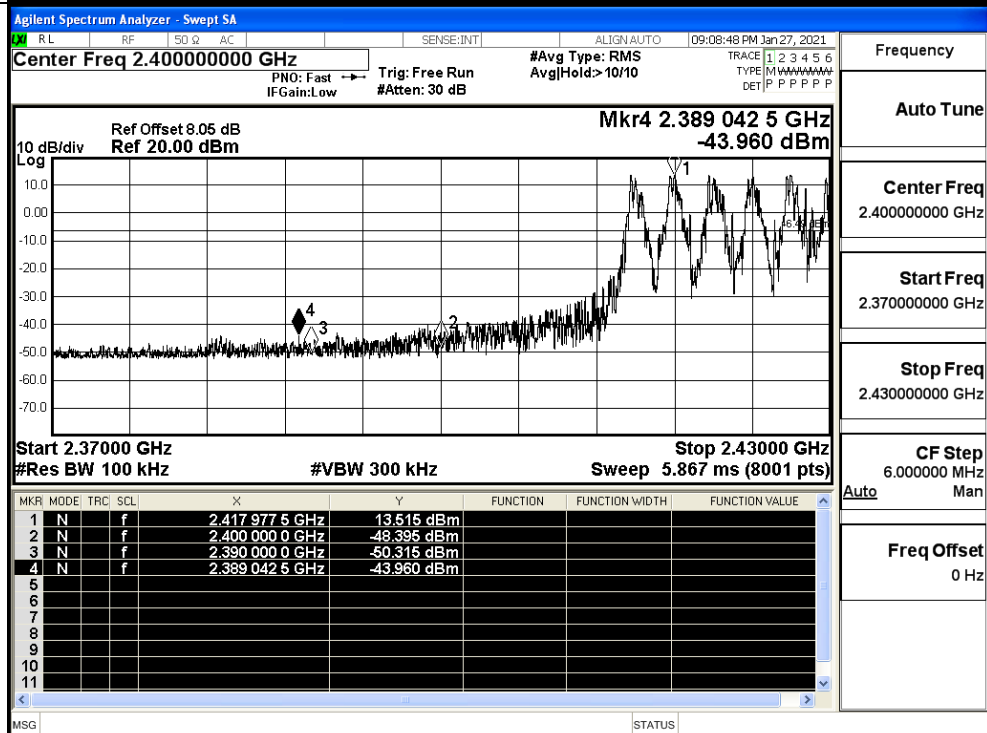
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2415	13.508	Off	-38.298	-6.49	PASS
			13.515	On	-43.960	-6.49	PASS
	HCH	2460	12.394	Off	-41.005	-7.61	PASS
			13.063	On	-29.804	-6.94	PASS

Test Graphs

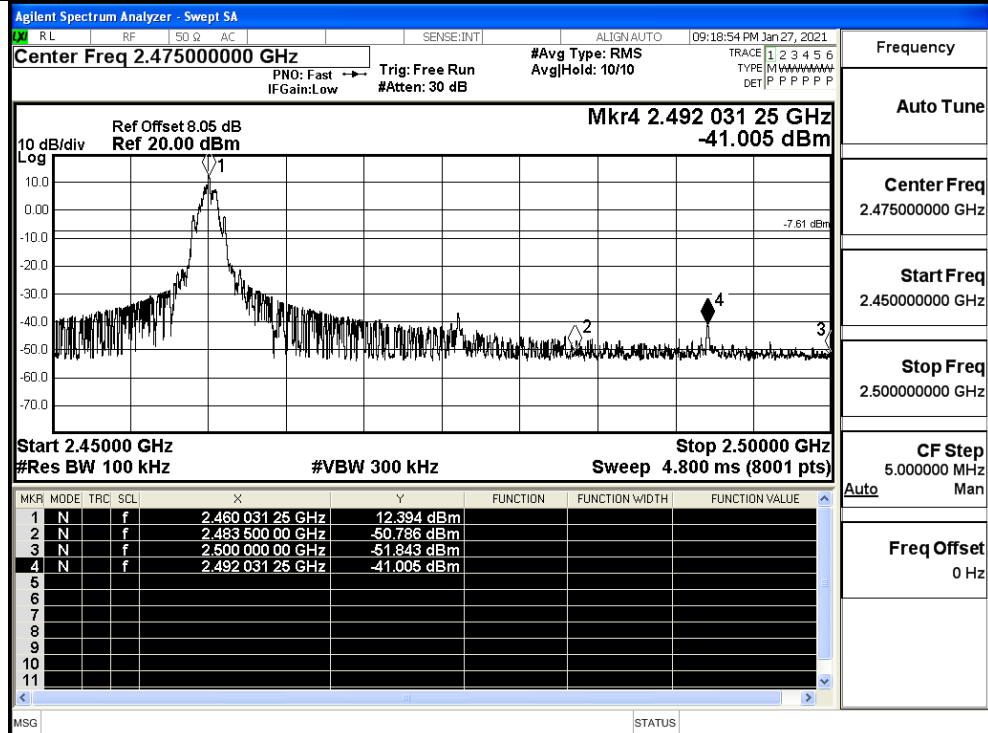
GFSK/LCH/No Hop



GFSK/LCH/Hop



GFSK/HCH/No Hop



Frequency

Auto Tune

Center Freq
2.475000000 GHz

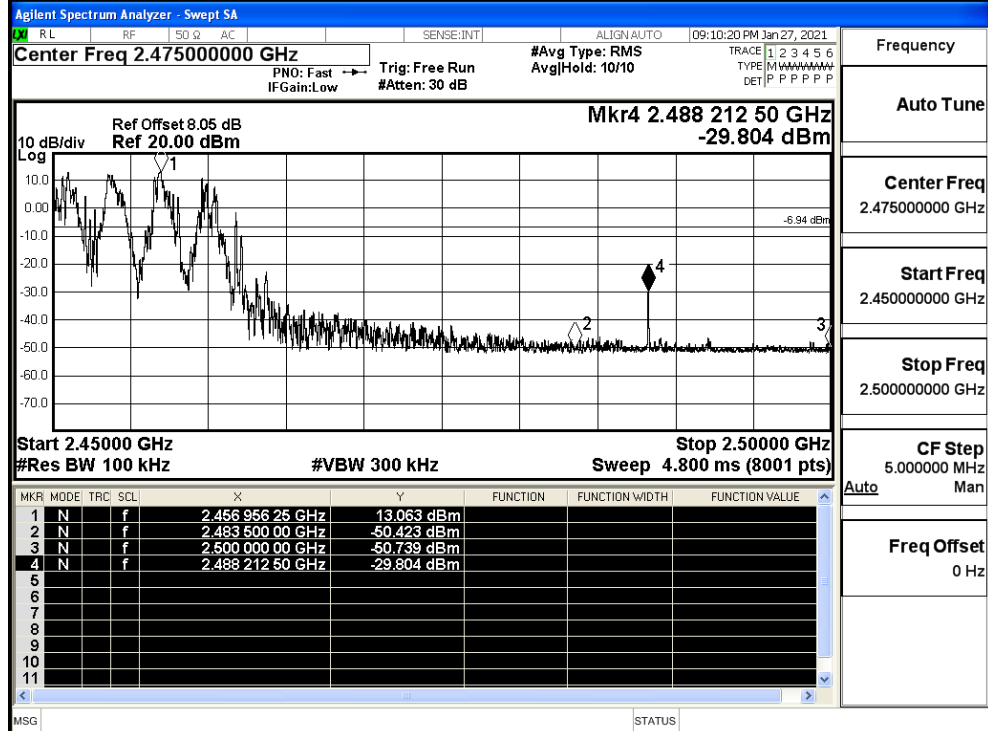
Start Freq
2.450000000 GHz

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

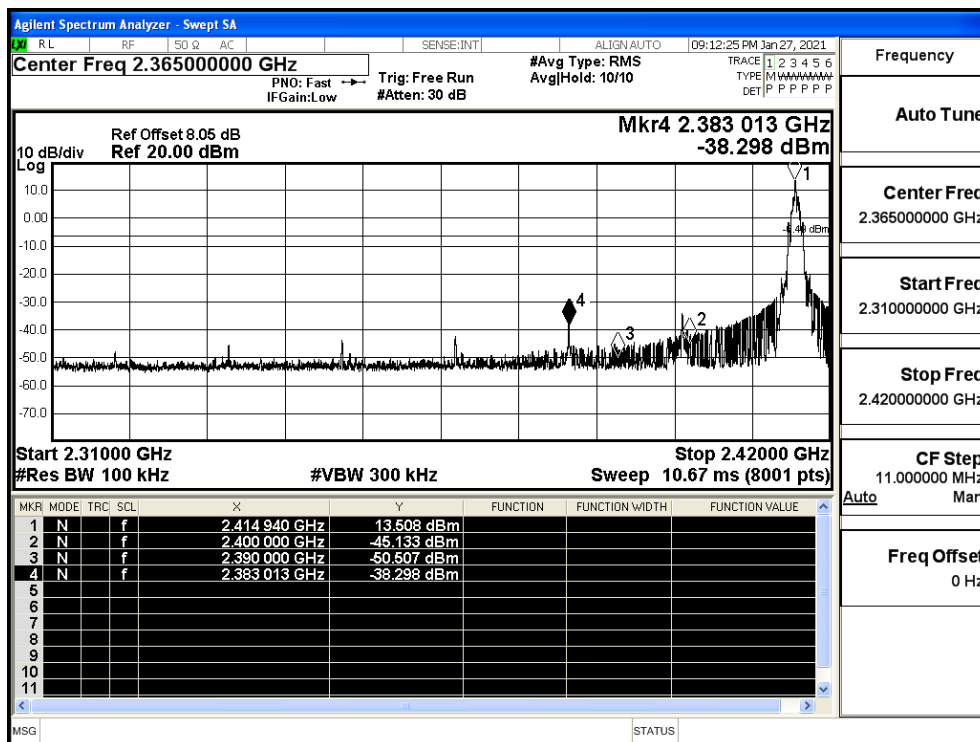
CF Step
5.000000 MHz
Auto Man

Freq Offset
0 Hz

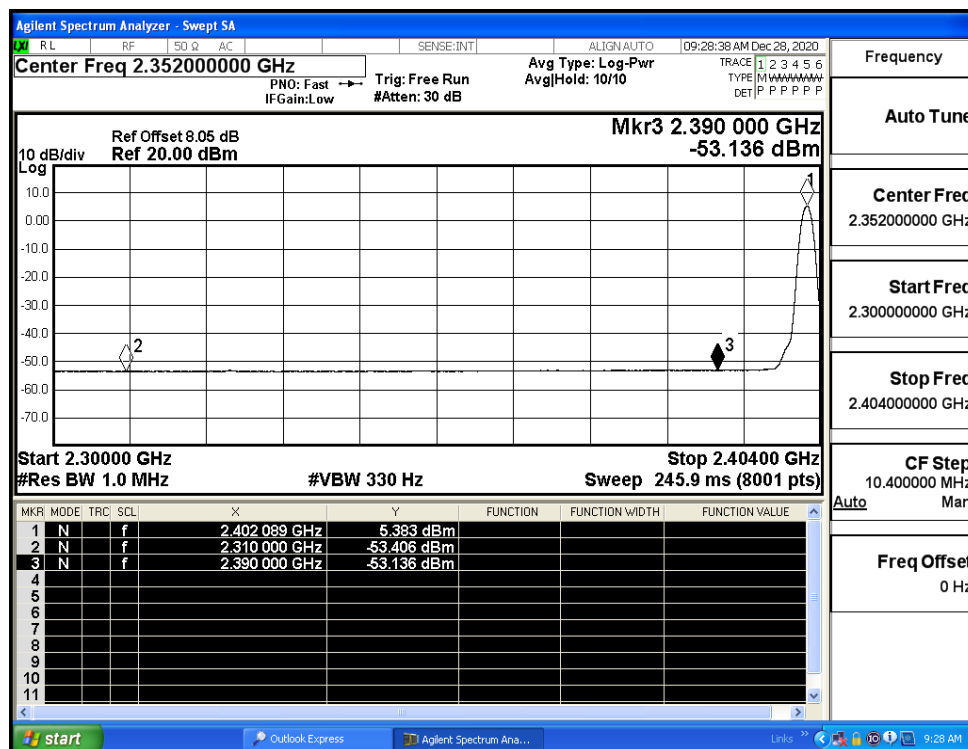
A.8 Restrict-band band-edge measurements

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

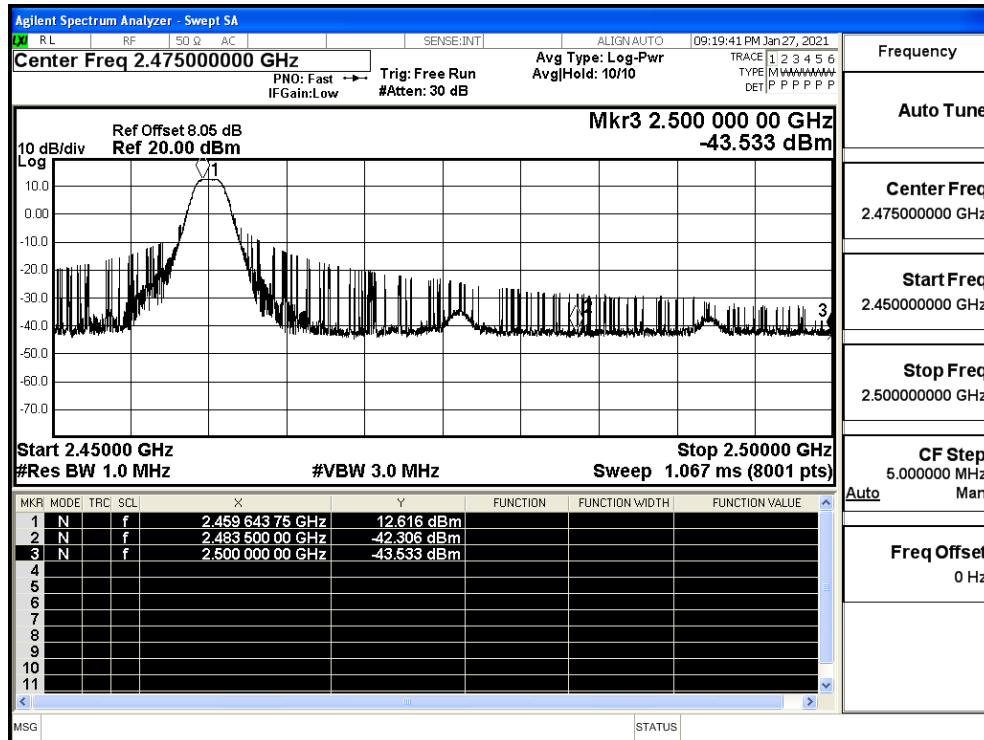
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



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)

