

Appendix A

RF Test Data for BT V3.0(BDR) (Conducted Measurement)

Product Name: Bluetooth Keyboard with led backlight

Trade Mark: /

Test Model: CBT002

Environmental Conditions

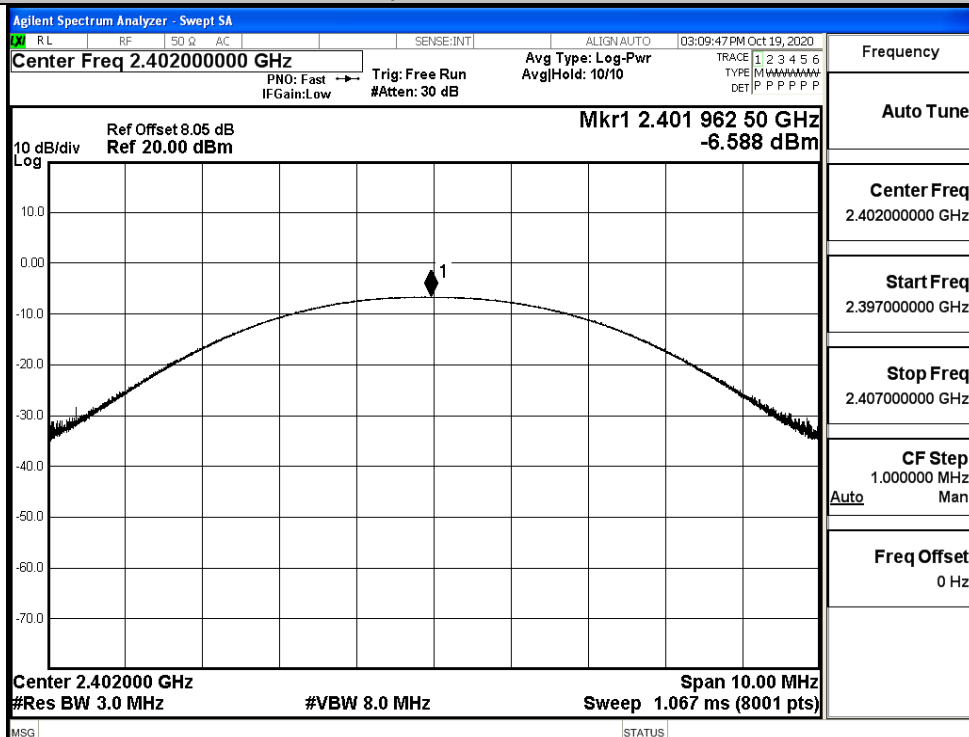
Temperature:	24.1 ° C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jam Zheng
Supervised by:	Tom.Liu

A.1 Maximum Conducted Peak Output Power

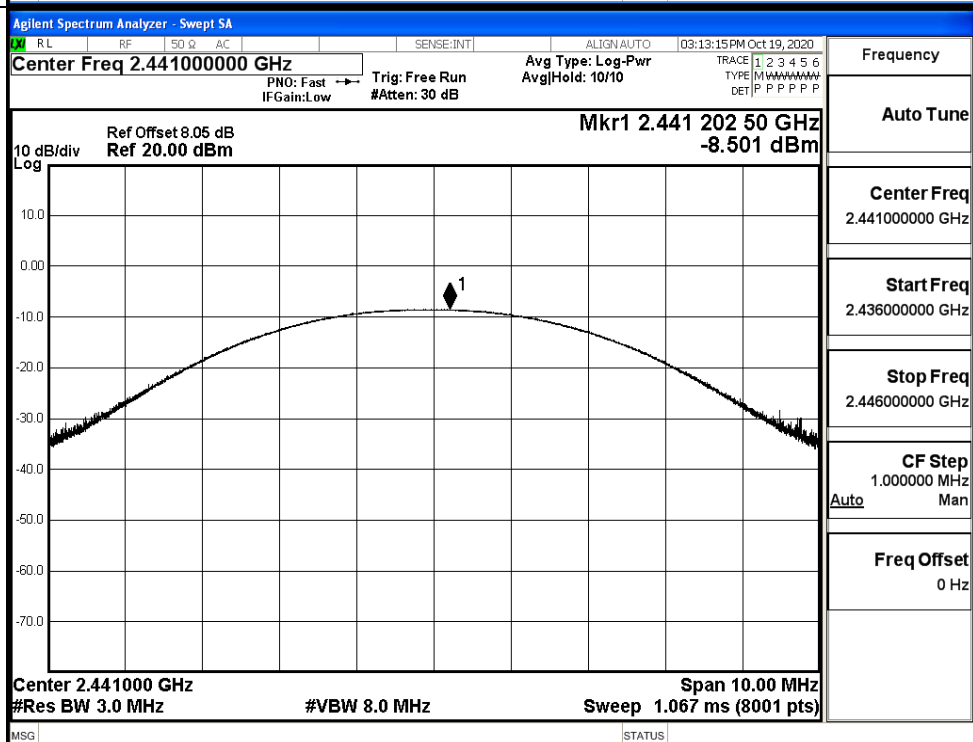
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-6.588	21	PASS
	MCH	-8.501	21	PASS
	HCH	-10.025	21	PASS

Test Graphs

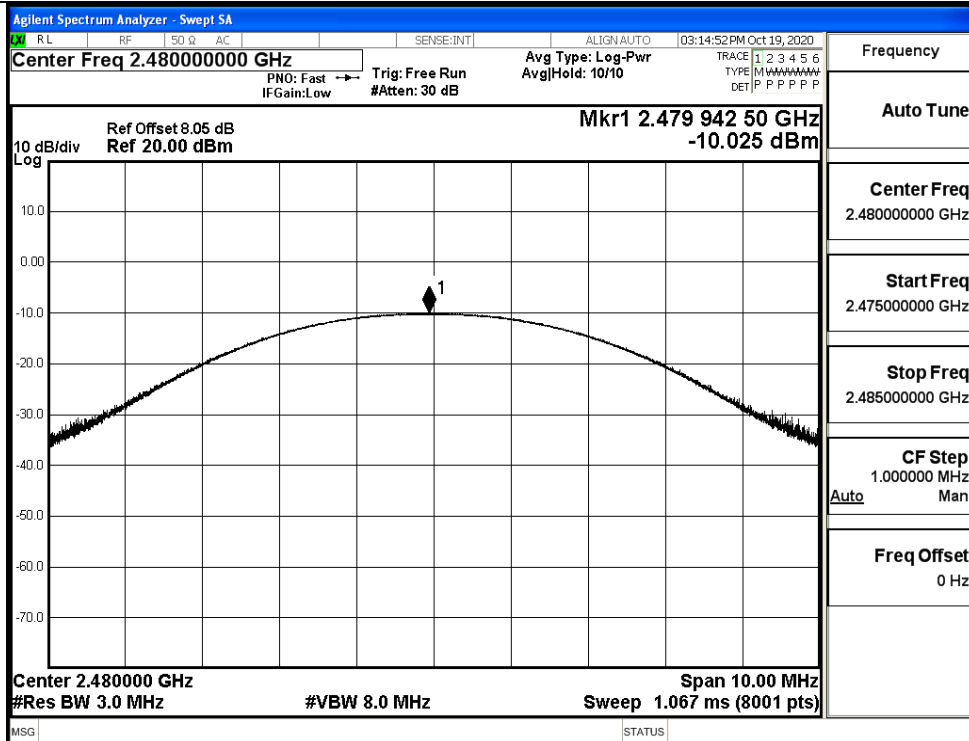
GFSK/LCH



GFSK/MCH



GFSK/HCH

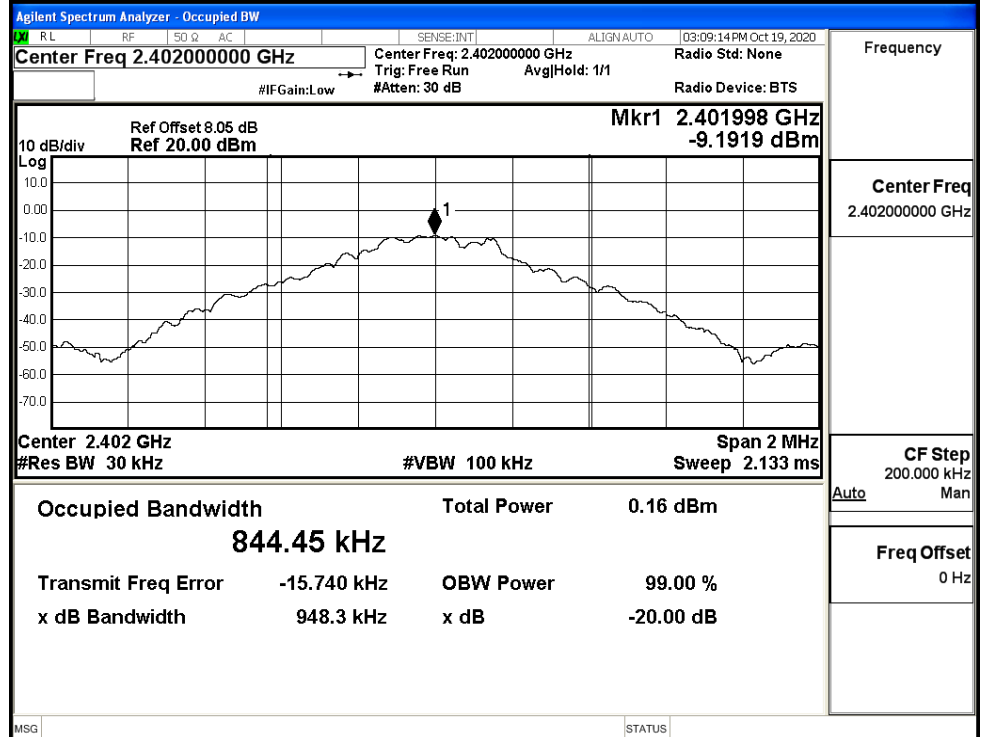


A.2 20dB Bandwidth

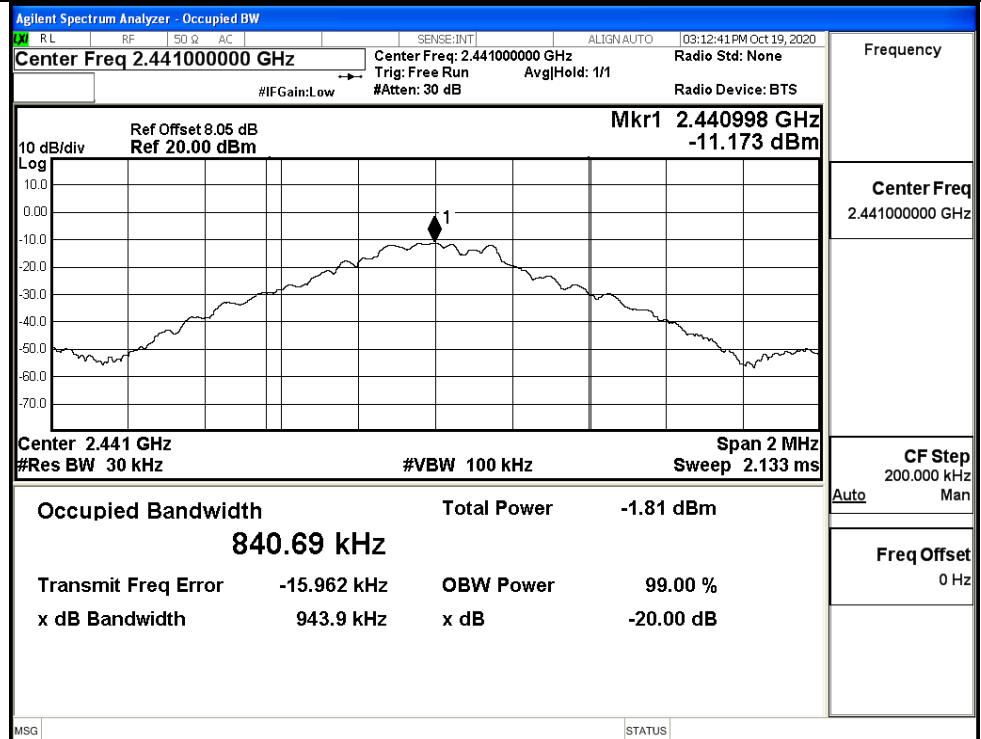
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.9483	Not Specified	PASS
	MCH	0.9439	Not Specified	PASS
	HCH	0.9449	Not Specified	PASS

Test Graphs

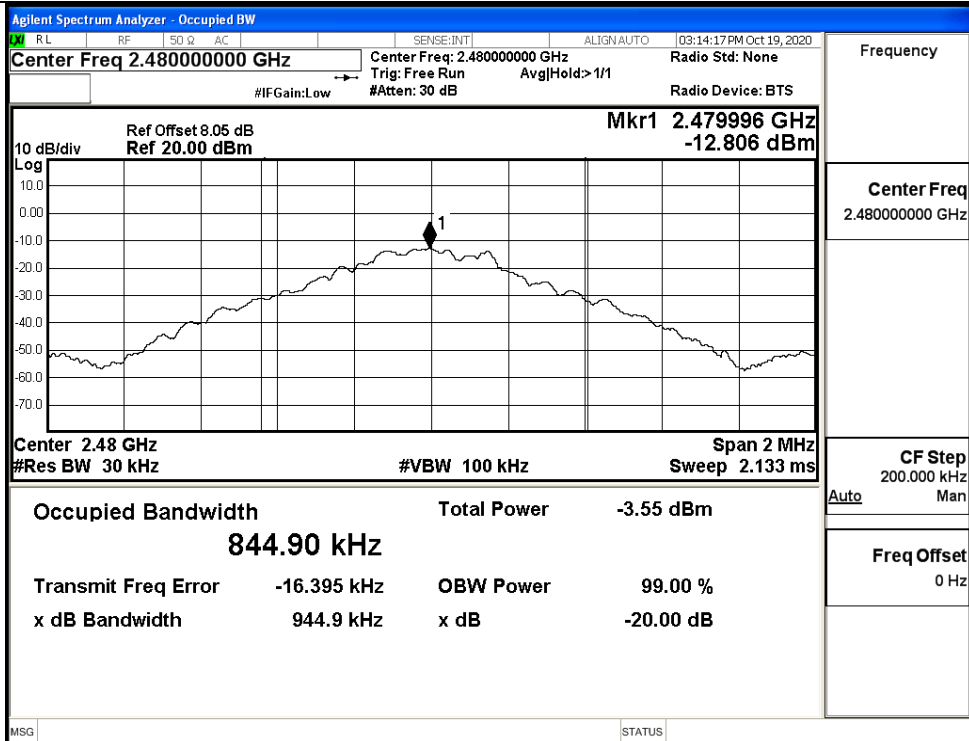
GFSK/LCH



GFSK/MCH



GFSK/HCH

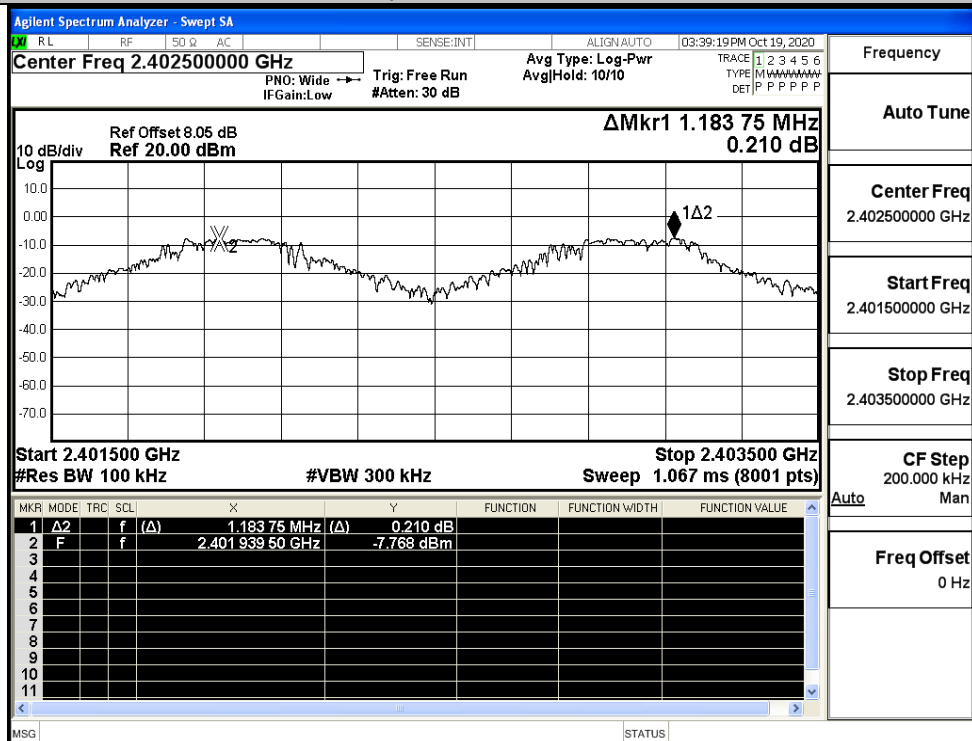


A.3 Carrier Frequency Separation

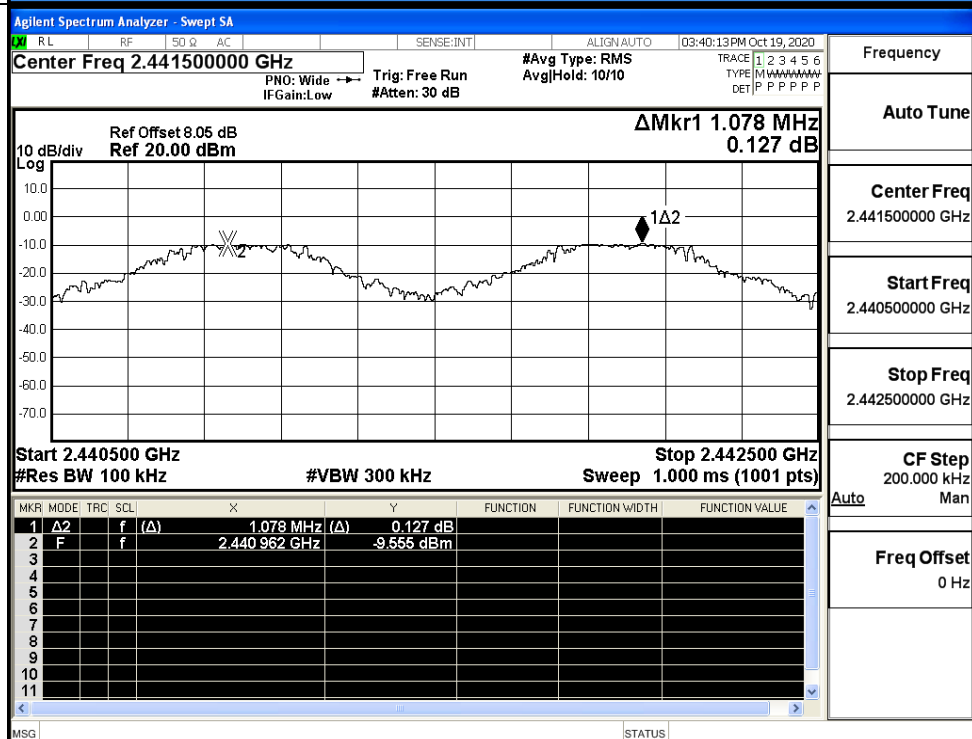
Mode	Channel	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.184	0.632	PASS
	MCH	1.078	0.632	PASS
	HCH	1.058	0.632	PASS

Test Graphs

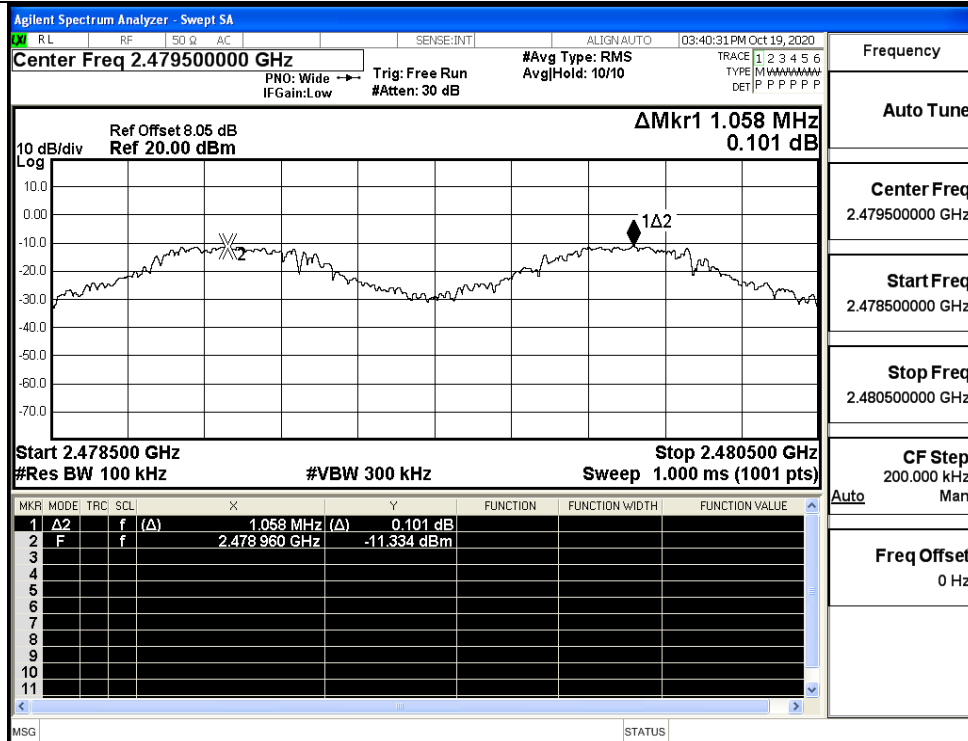
GFSK/LCH



GFSK/MCH



GFSK/HCH

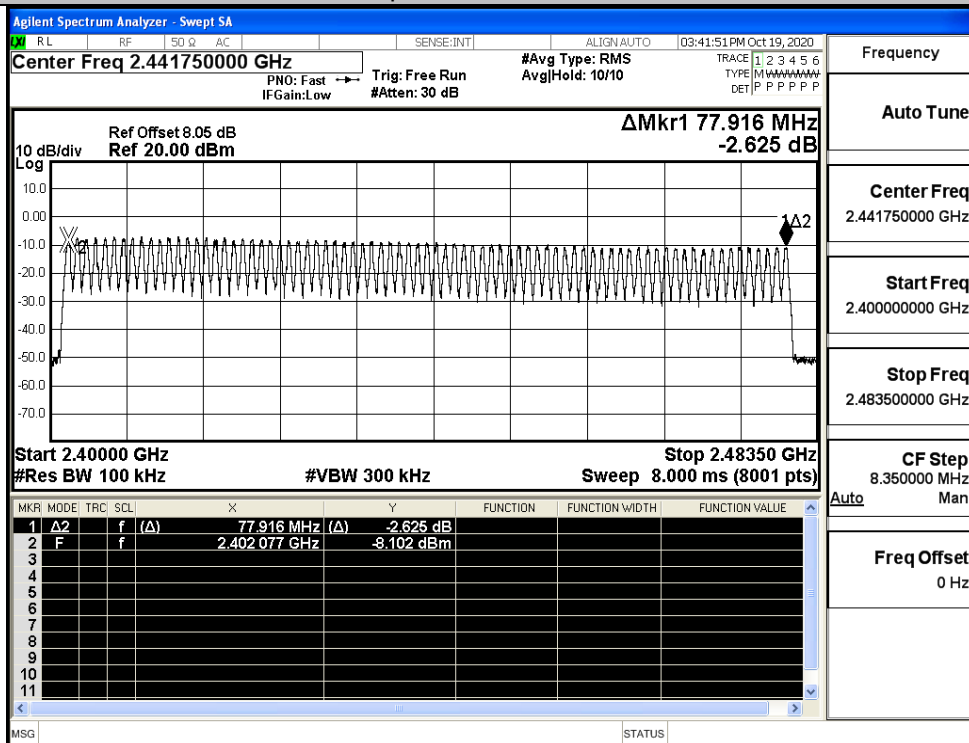


A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS

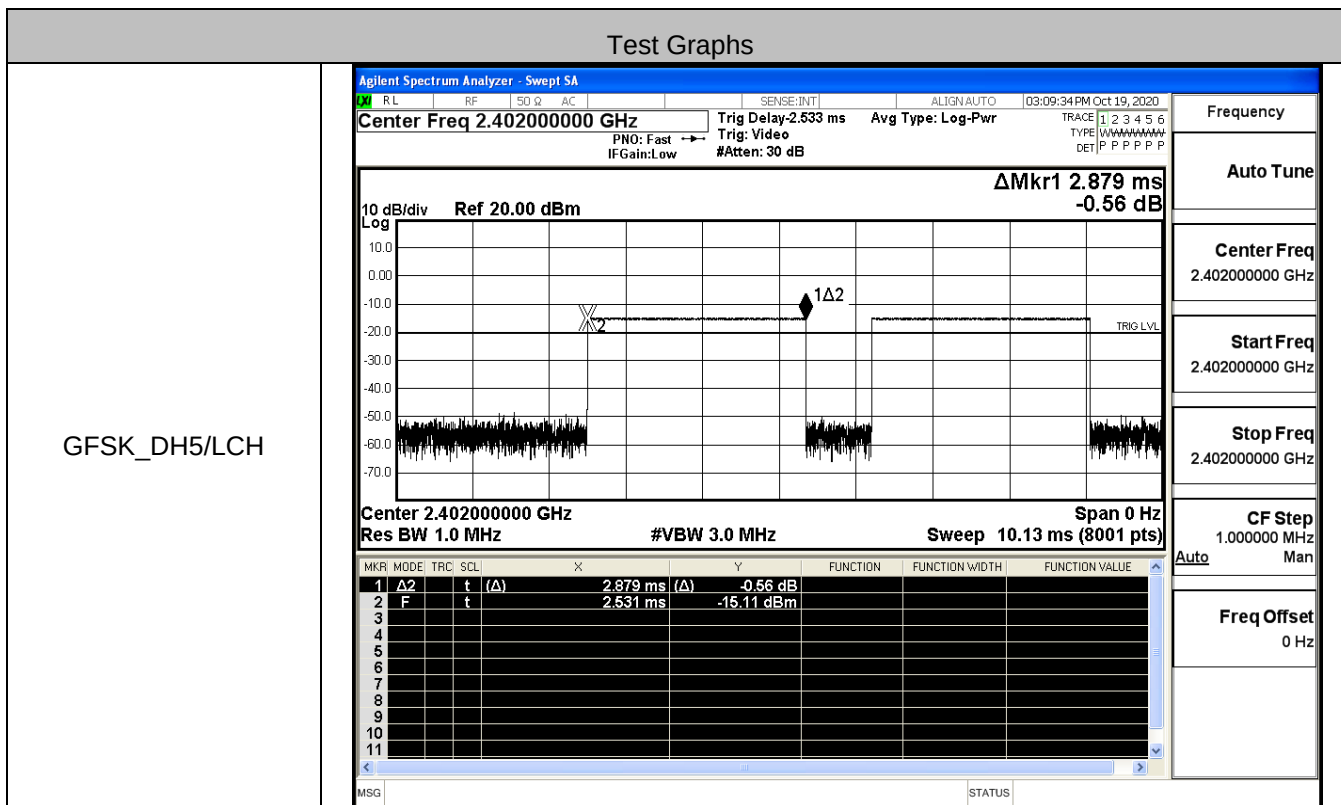
Test Graphs

GFSK/Hop

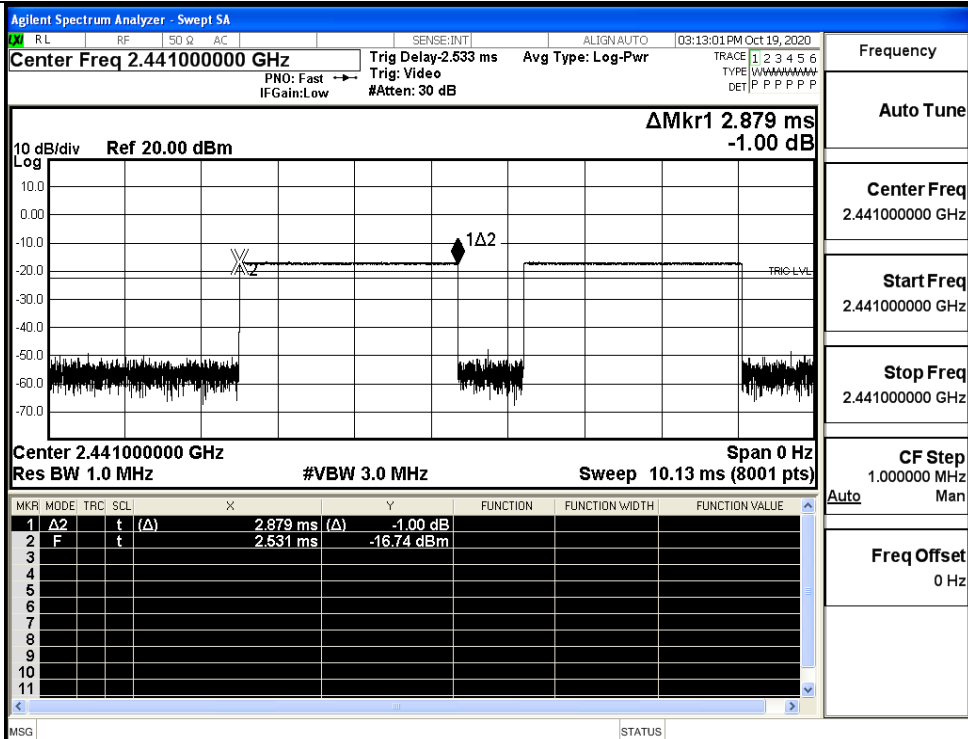


A.5 Dwell Time

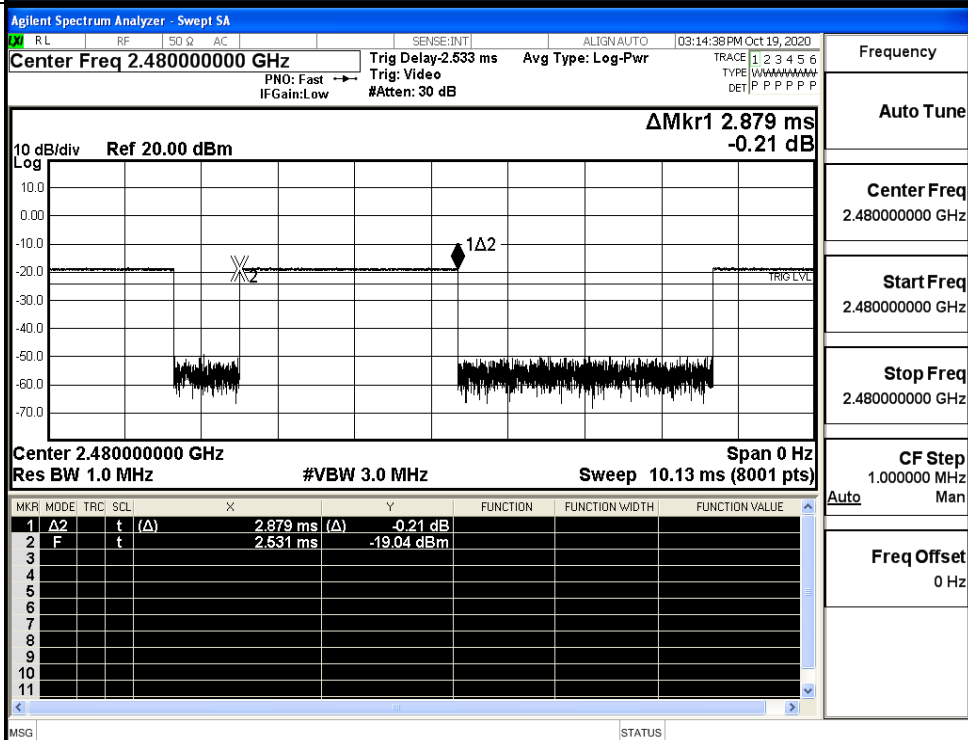
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS



GFSK_DH5/MCH



GFSK_DH5/HCH

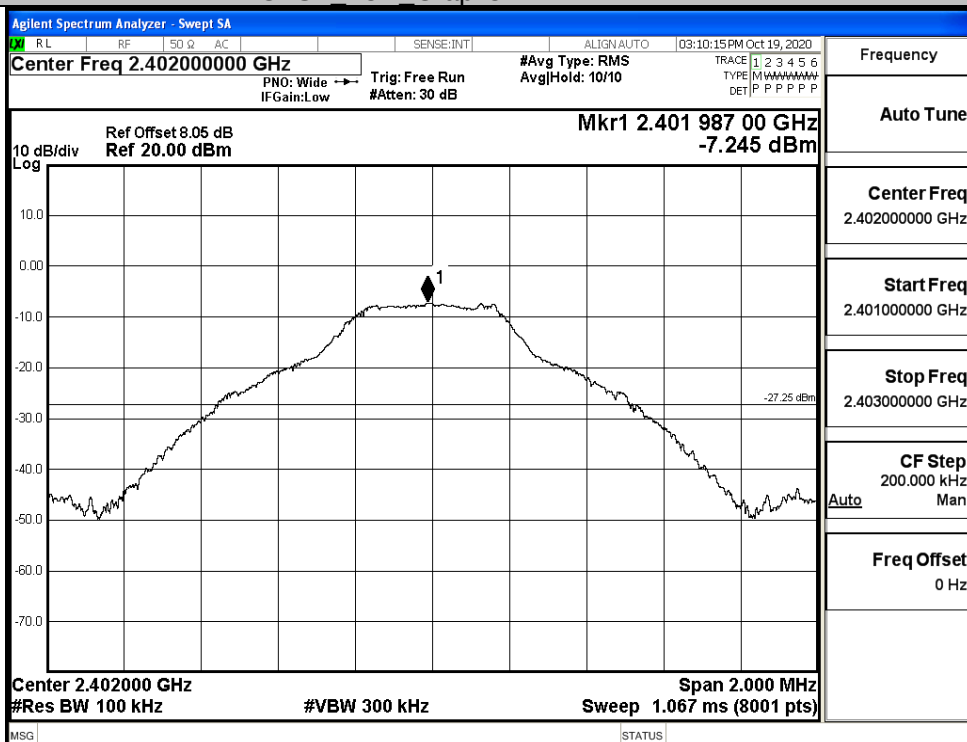


A.6 RF Conducted Spurious Emissions

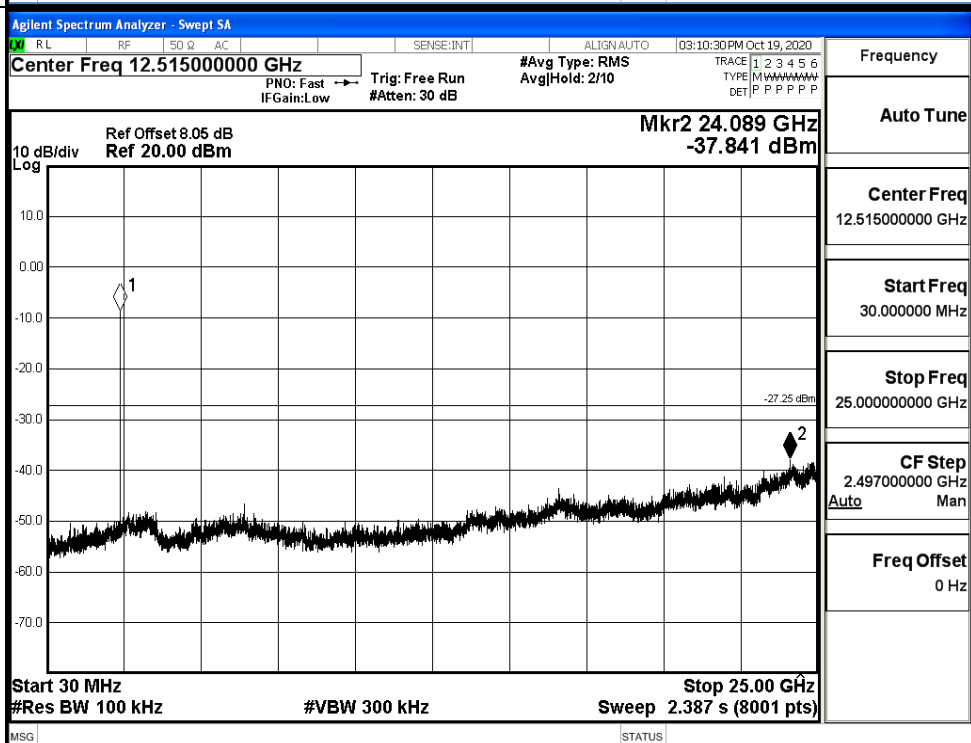
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-7.245	-37.841	-27.245	PASS
	MCH	-9.034	-36.966	-29.034	PASS
	HCH	-10.577	-37.599	-30.577	PASS

GFSK LCH Graphs

Pref

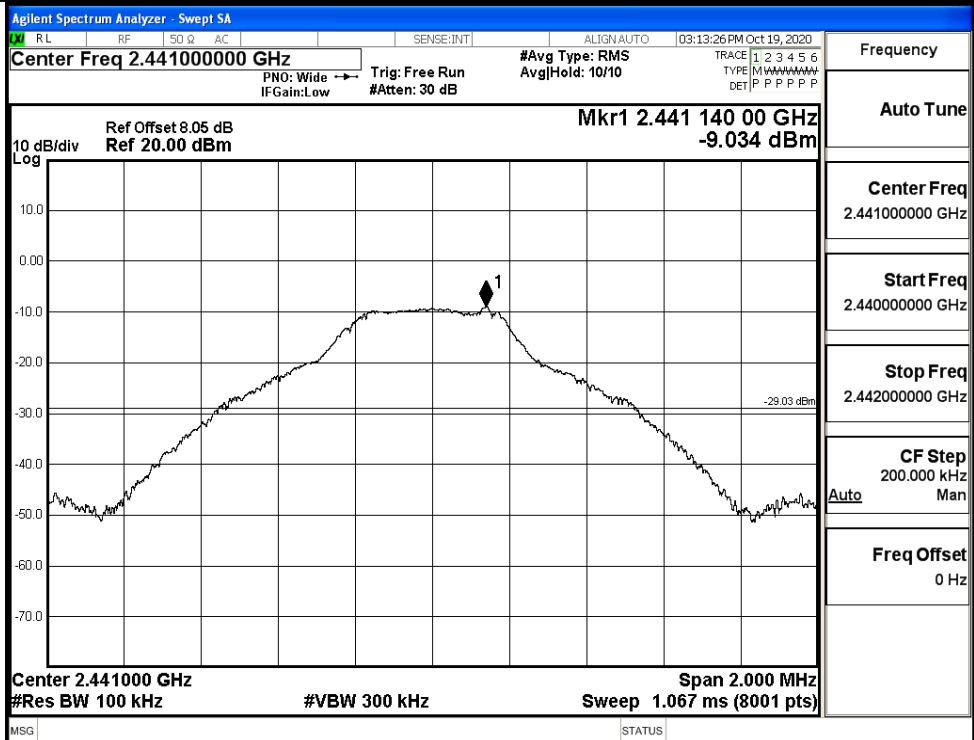


Puw

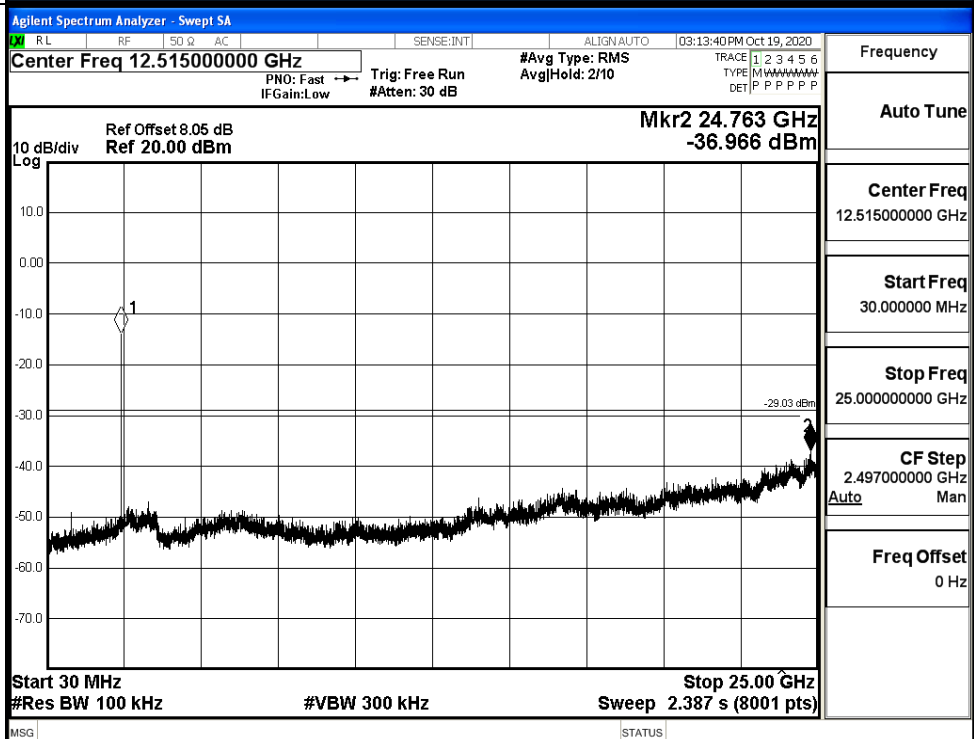


GFSK MCH Graphs

Pref

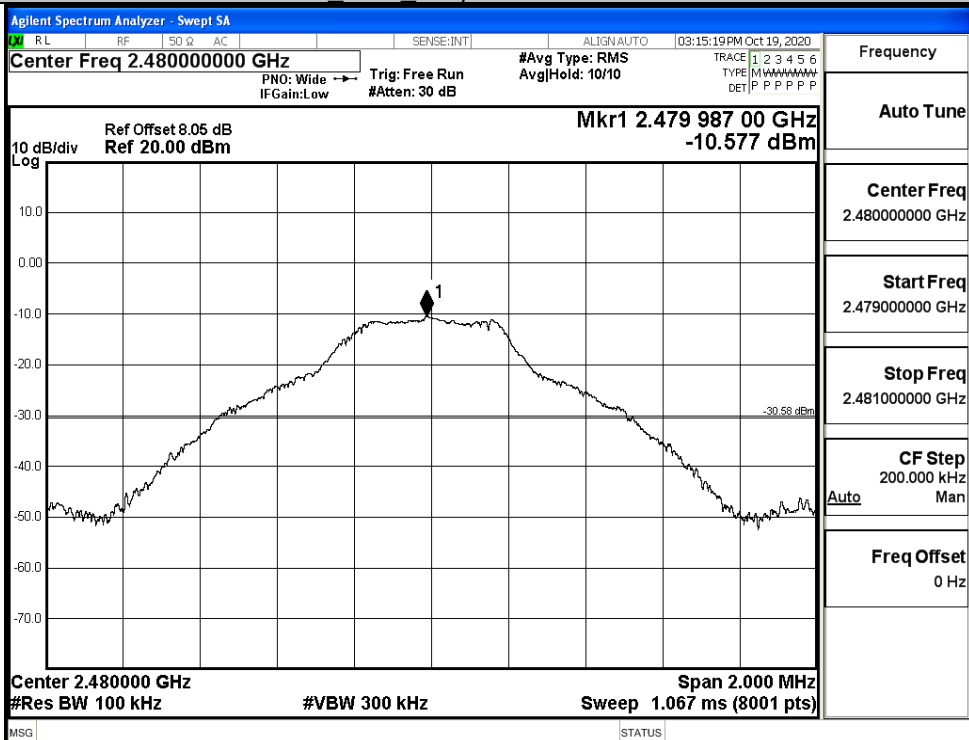


Puw

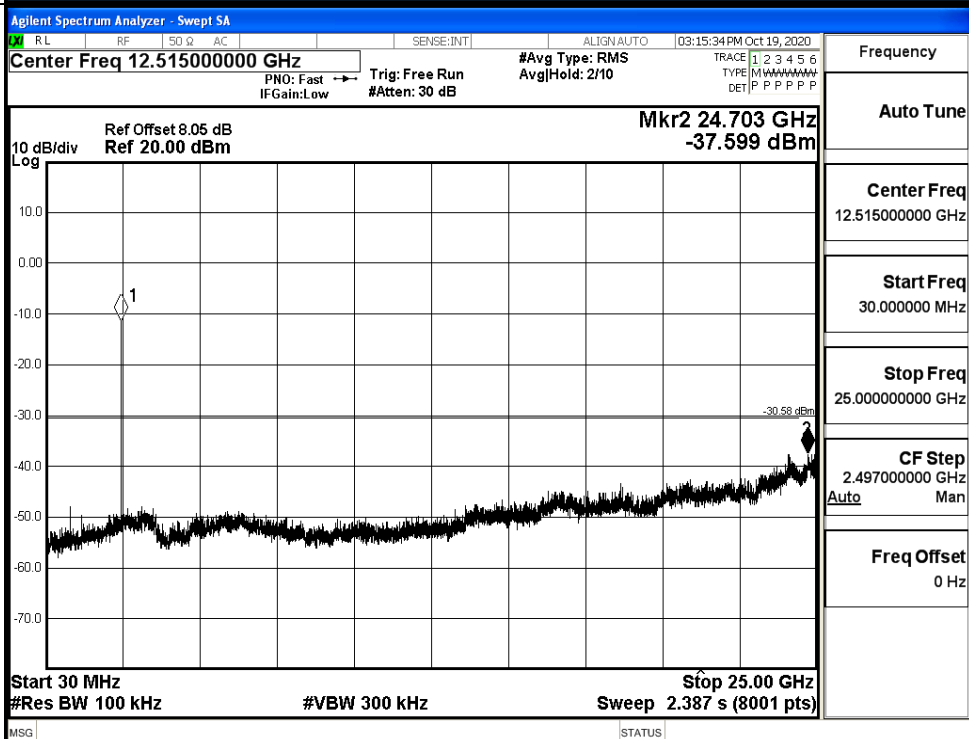


GFSK HCH Graphs

Pref



Puw

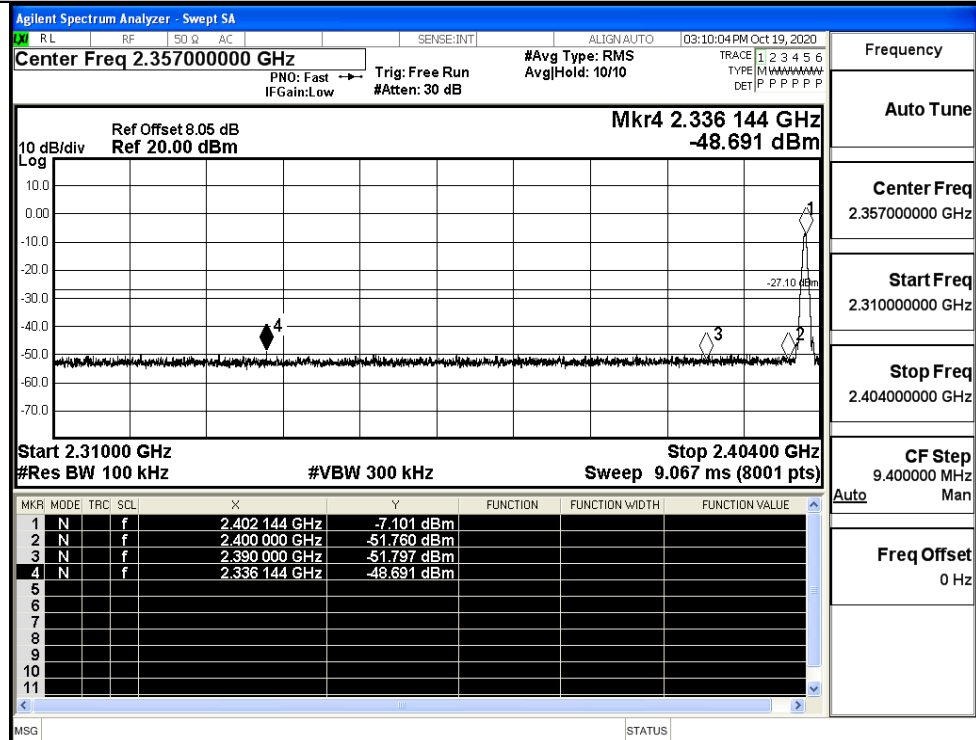


A.7 Band-edge for RF Conducted Emissions

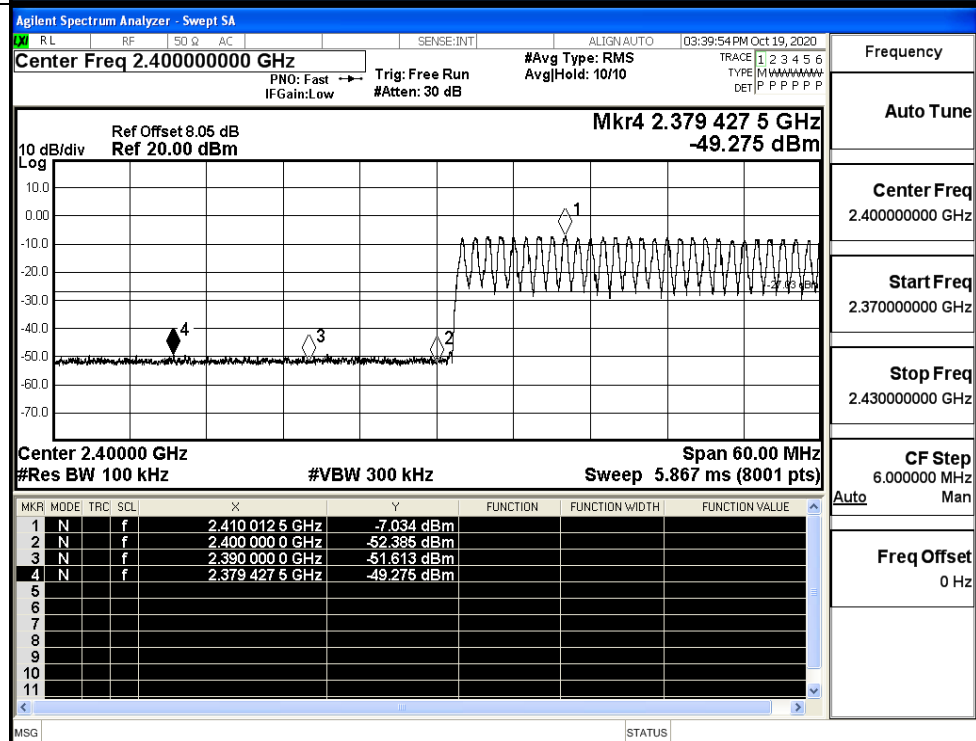
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-7.101	Off	-48.691	-27.1	PASS
			-7.034	On	-49.275	-27.03	PASS
	HCH	2480	-10.579	Off	-48.798	-30.58	PASS
			-10.241	On	-48.620	-30.24	PASS

Test Graphs

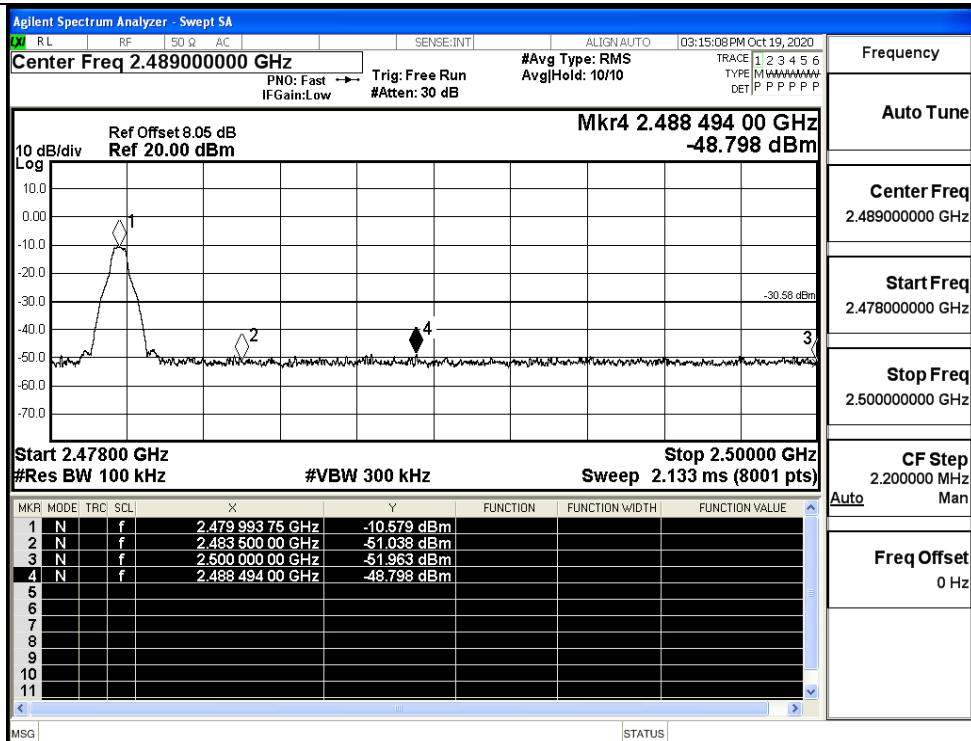
GFSK/LCH/No Hop



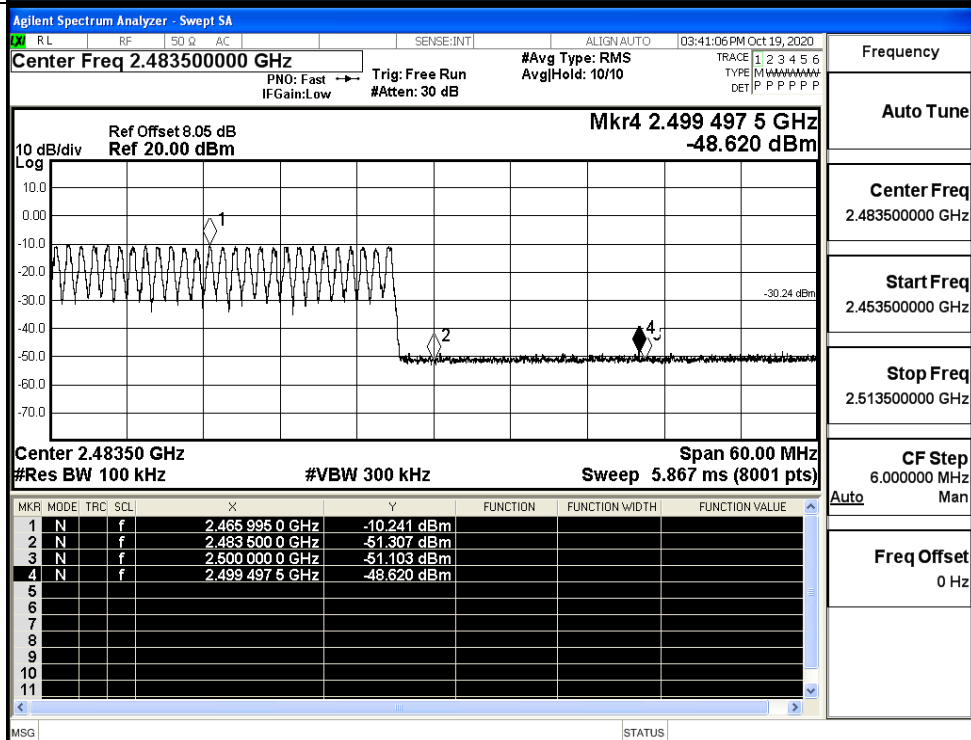
GFSK/LCH/Hop



GFSK/HCH/No Hop



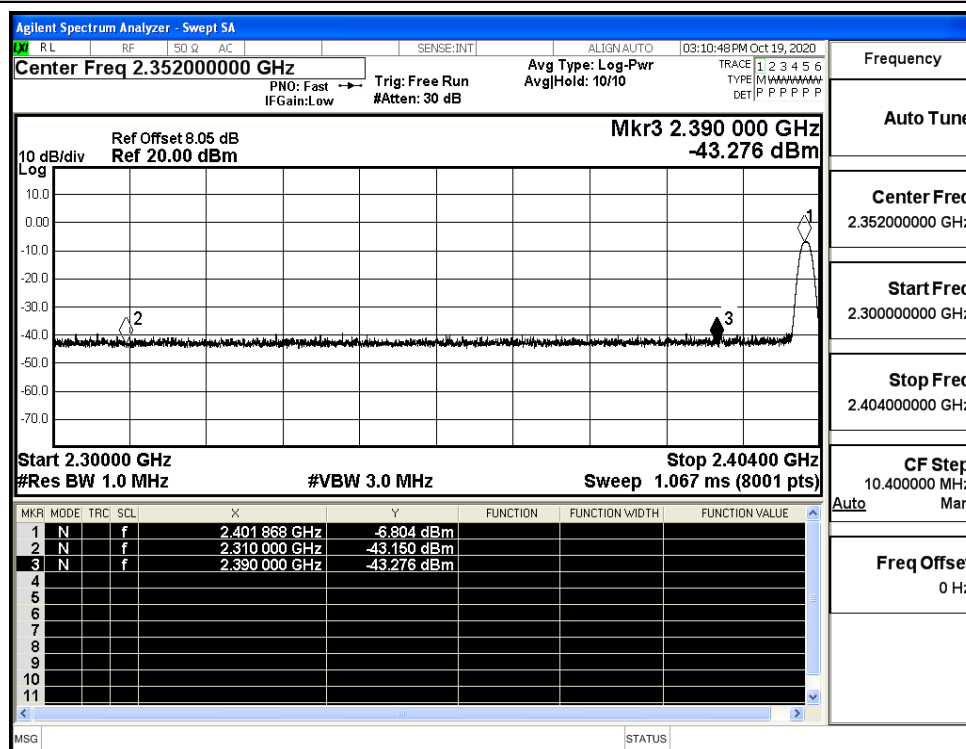
GFSK/HCH/Hop



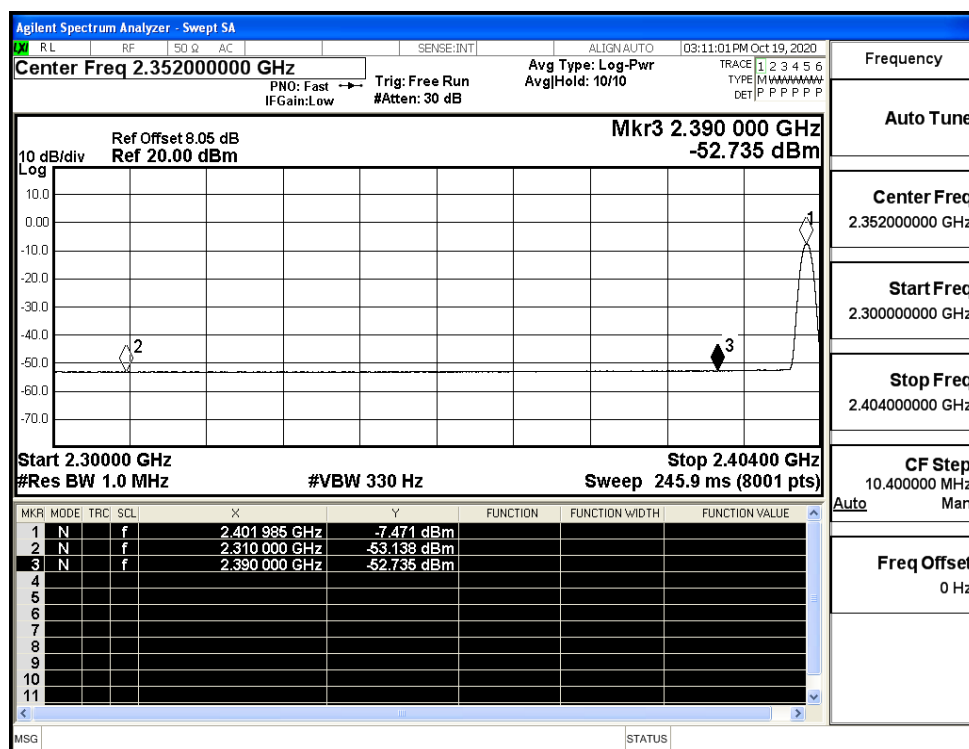
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-43.15	2.0	0	52.11	PEAK	74	PASS
	Off	2310.0	-53.14	2.0	0	42.12	AV	54	PASS
	Off	2390.0	-43.28	2.0	0	51.98	PEAK	74	PASS
	Off	2390.0	-52.74	2.0	0	42.52	AV	54	PASS
	Off	2483.5	-42.94	2.0	0	52.31	PEAK	74	PASS
	Off	2483.5	-52.23	2.0	0	43.03	AV	54	PASS
	Off	2500.0	-41.91	2.0	0	53.35	PEAK	74	PASS
	Off	2500.0	-52.15	2.0	0	43.11	AV	54	PASS

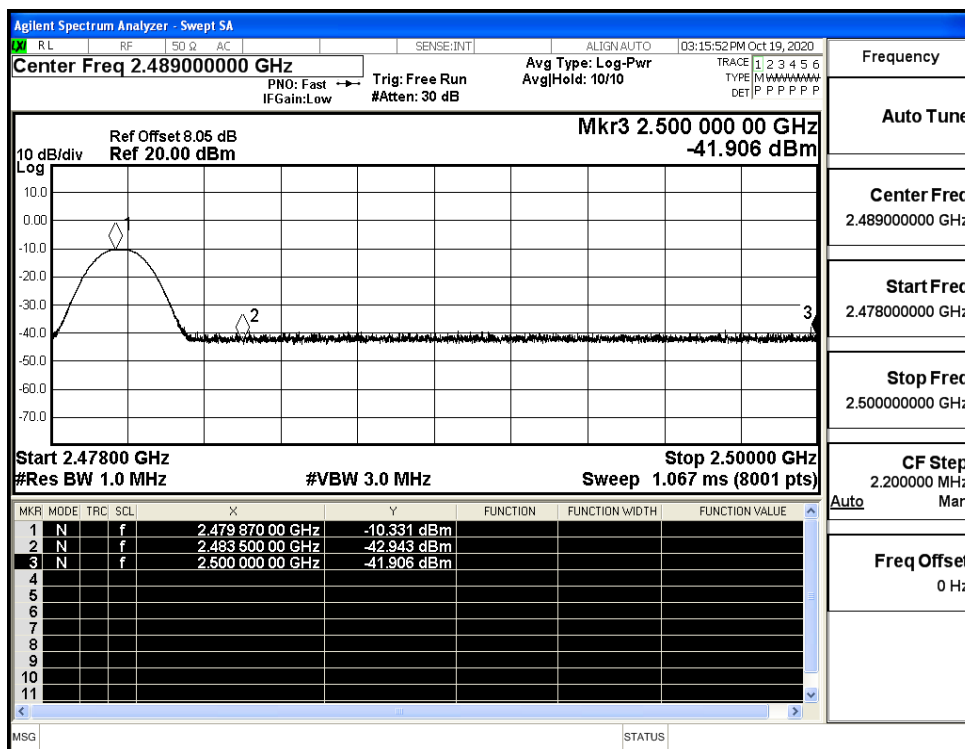
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



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)

