

Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: 2.4G Wireless Remote Control

Trade Mark: NEEWER

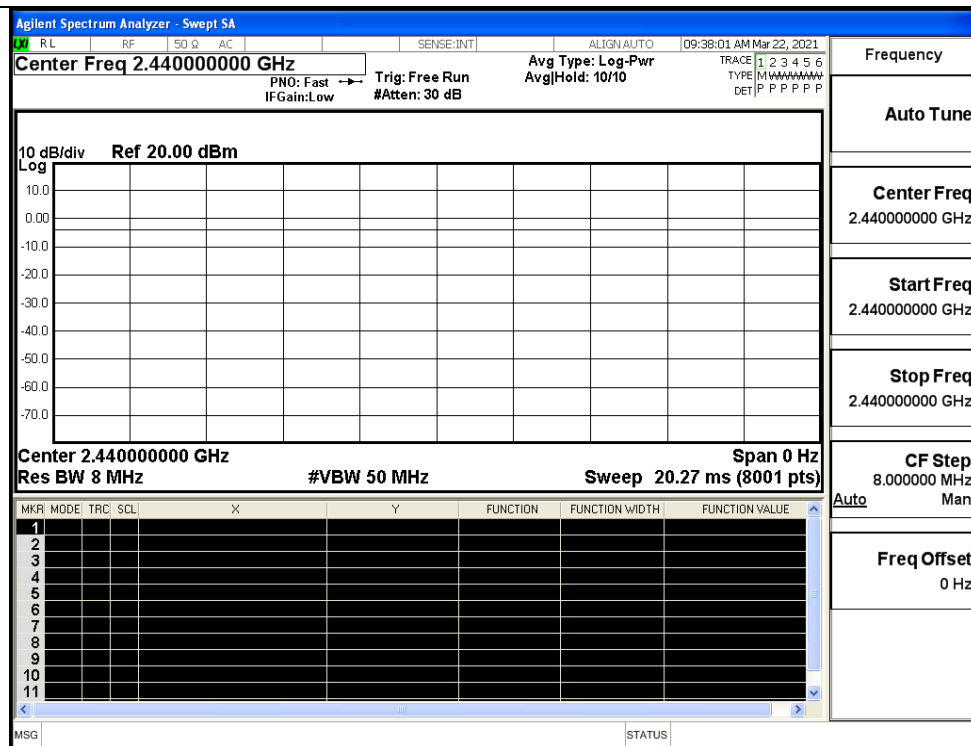
Test Model: RT-101

Environmental Conditions

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

A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
GFSK	2440	Ant1	100	PASS

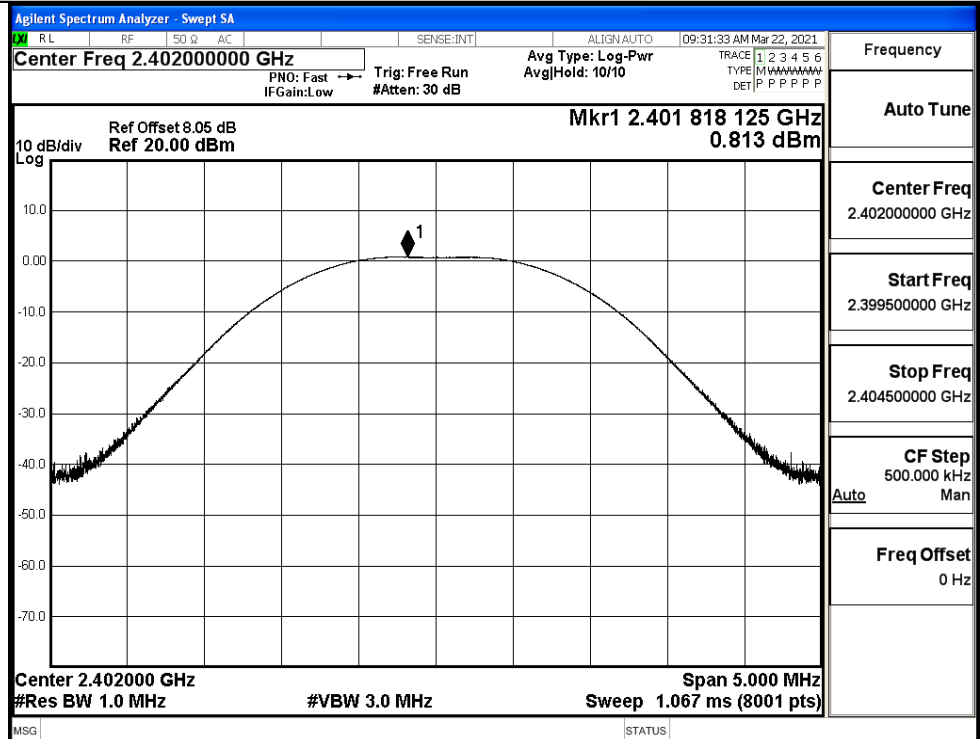


A.2 Maximum Conducted Peak Output Power

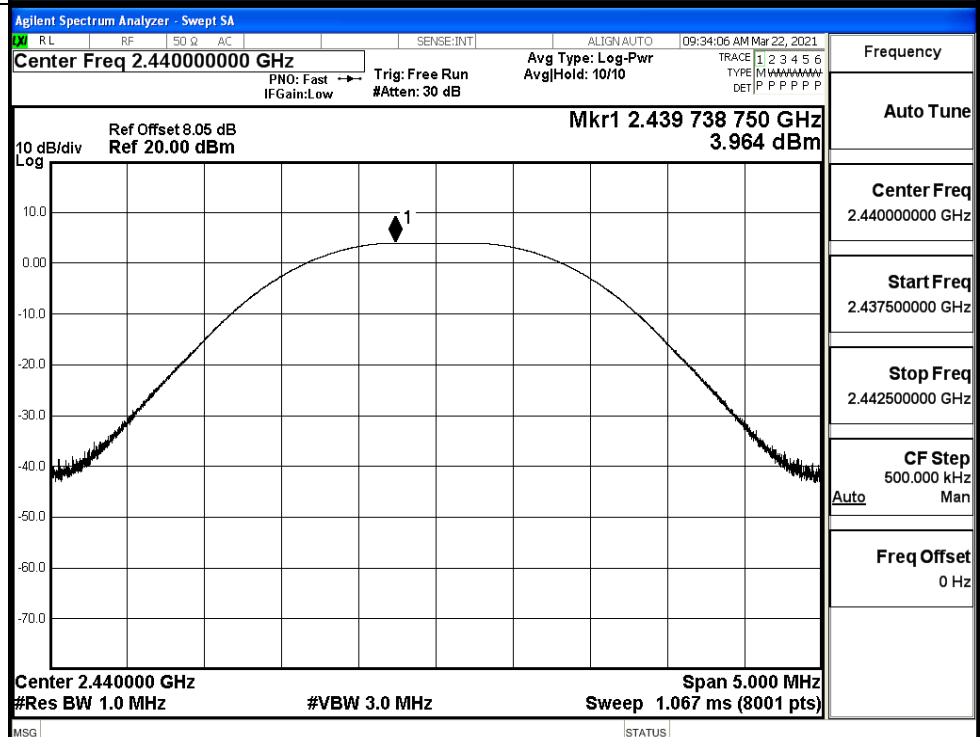
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.813	30	PASS
GFSK	MCH	3.964	30	PASS
GFSK	HCH	0.336	30	PASS

Test Graphs

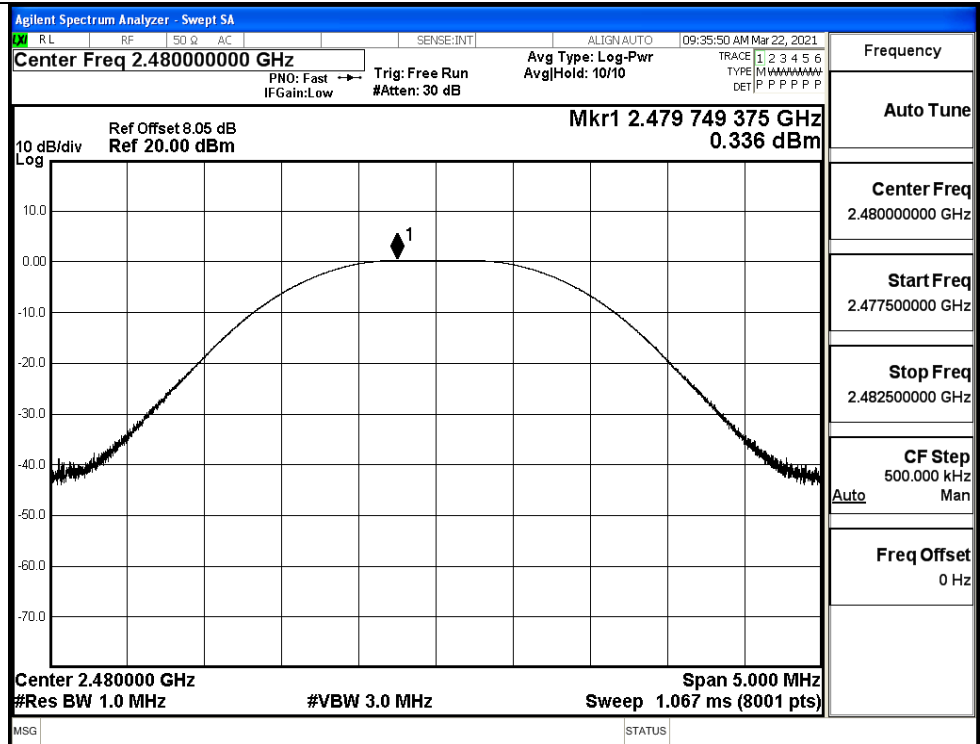
LCH



MCH



HCH

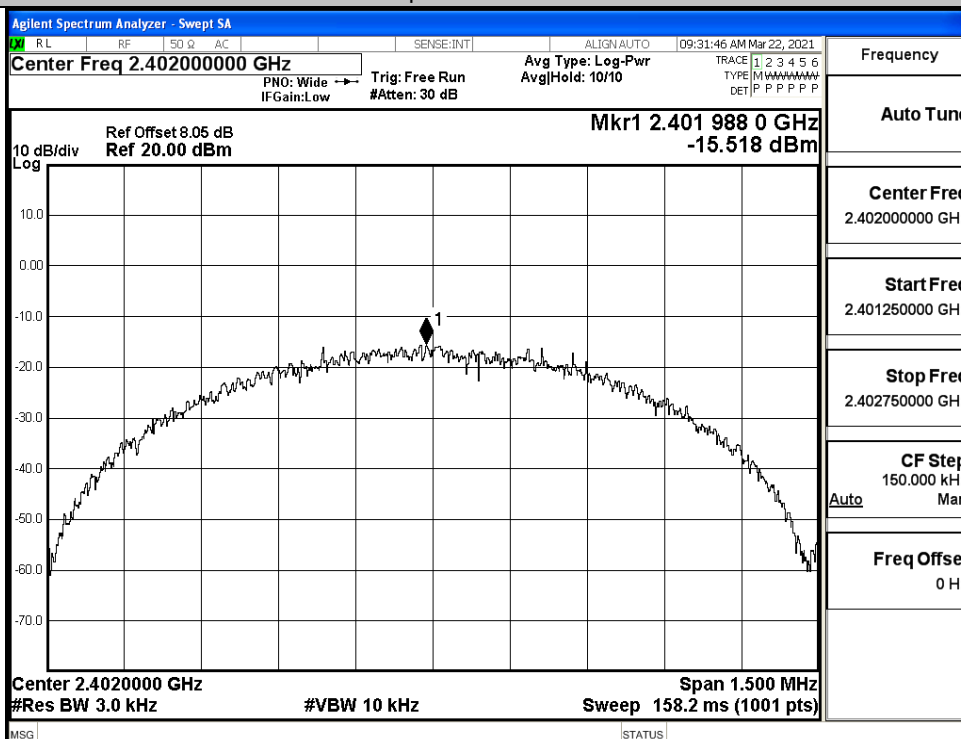


A.3 Maximum Power Spectral Density

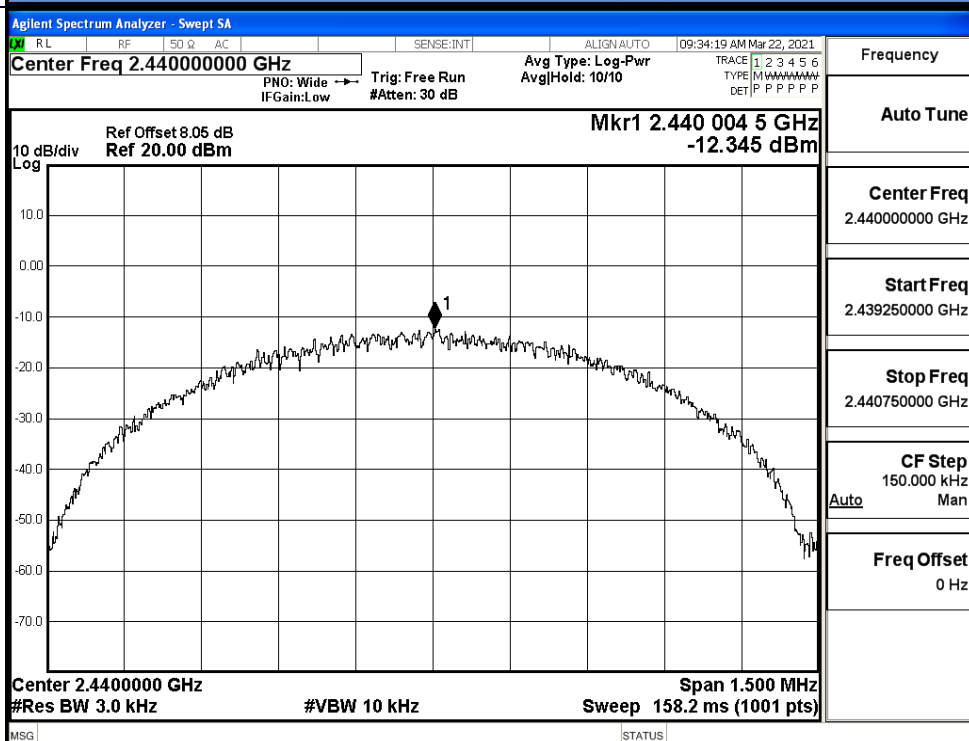
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
GFSK	LCH	-15.518	8	PASS
GFSK	MCH	-12.345	8	PASS
GFSK	HCH	-15.078	8	PASS

Test Graphs

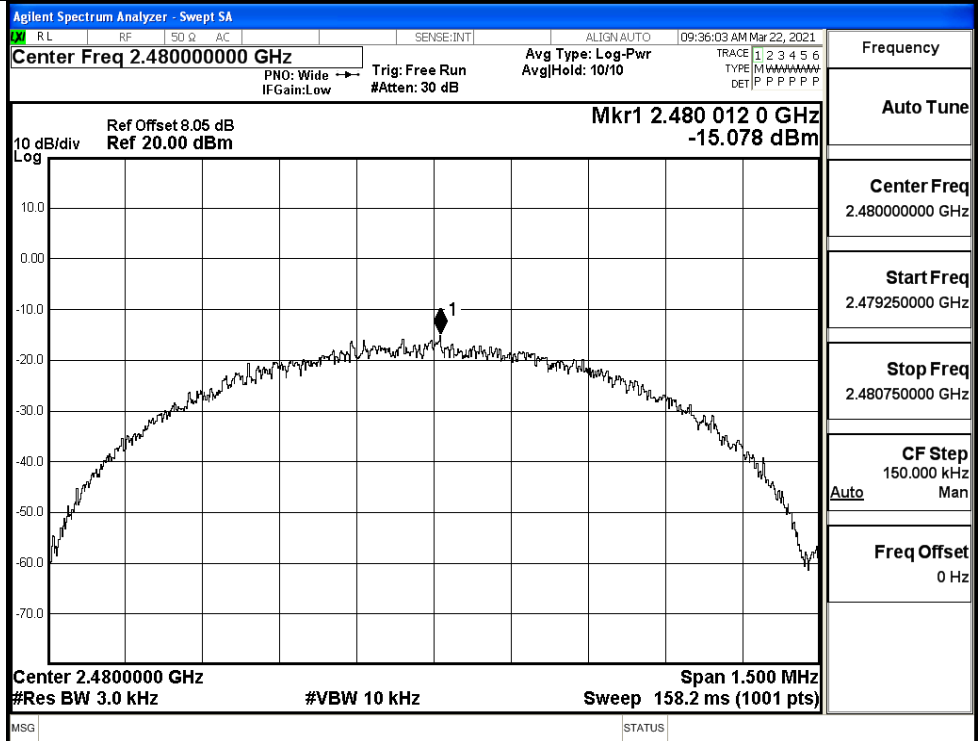
LCH



MCH



HCH

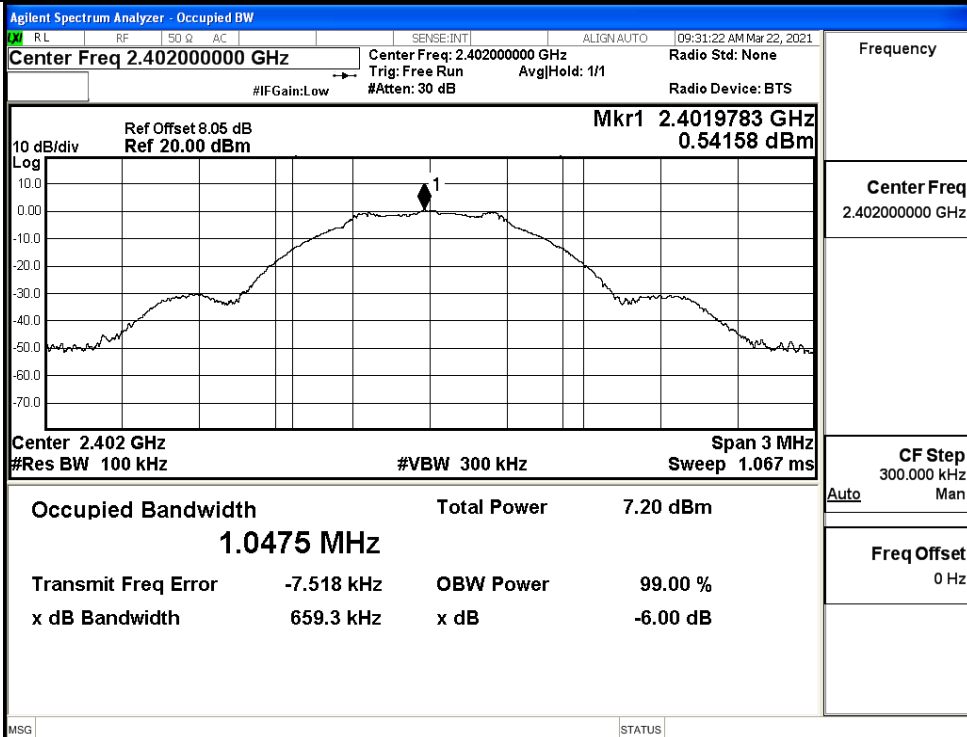


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.6593	≥ 0.5	PASS
GFSK	MCH	0.6625	≥ 0.5	PASS
GFSK	HCH	0.6702	≥ 0.5	PASS

Test Graphs

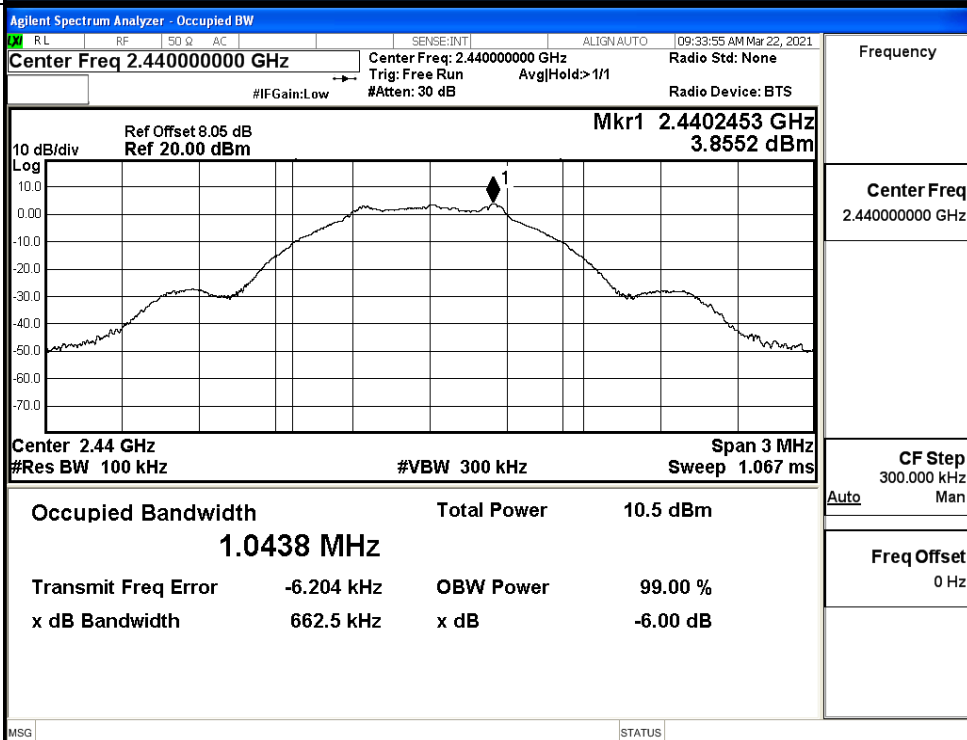
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

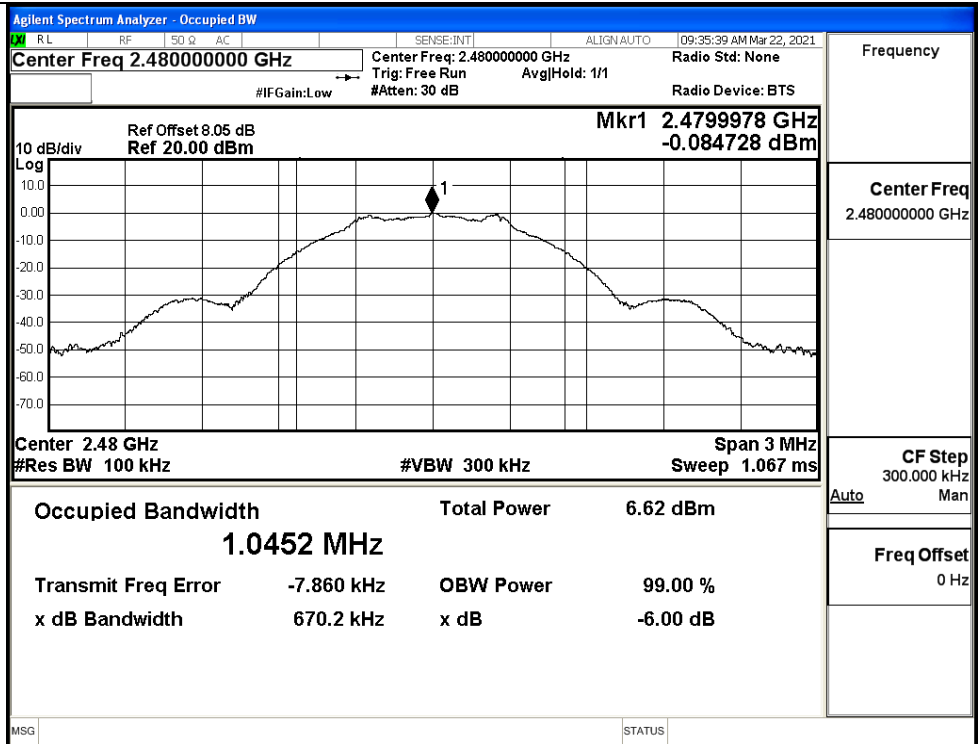
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

HCH

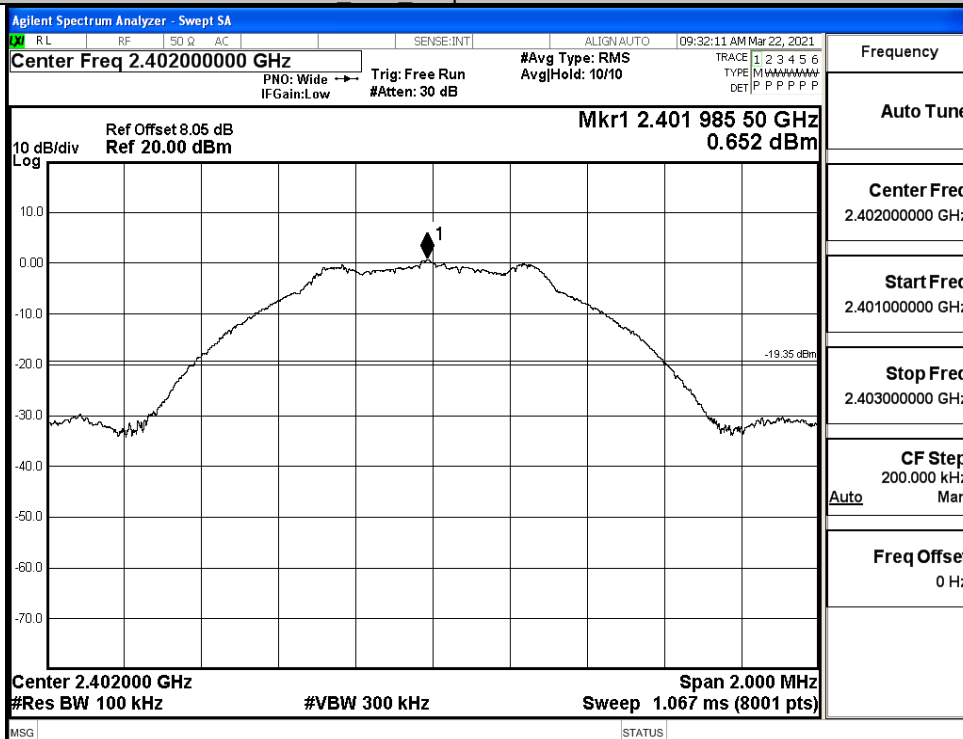


A.5 RF Conducted Spurious Emissions

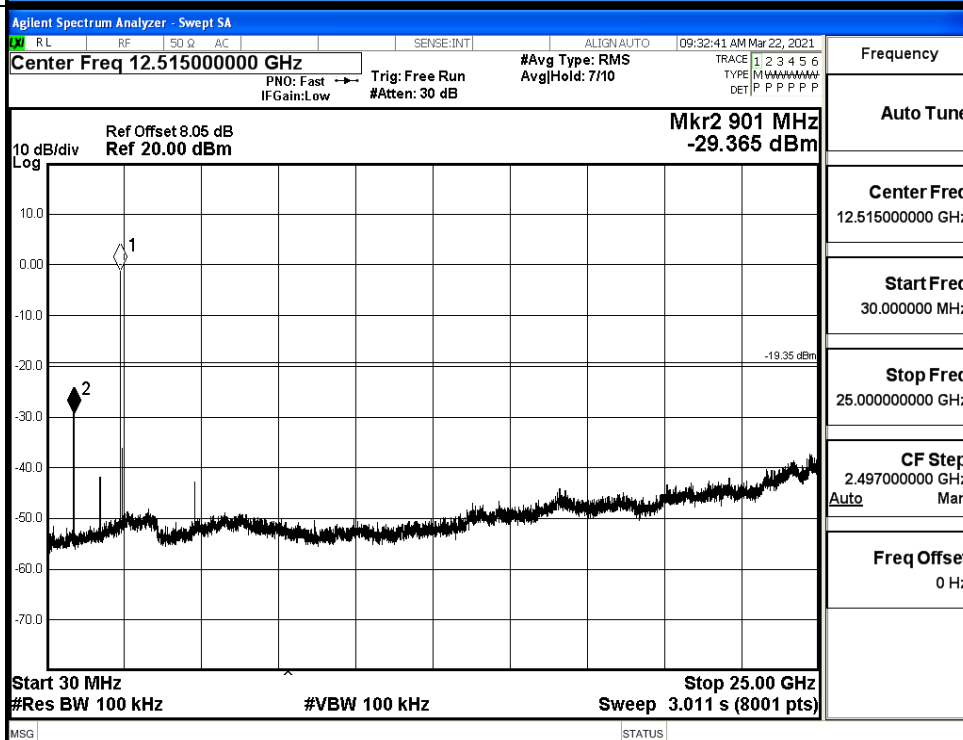
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.652	-29.365	-19.348	PASS
GFSK	MCH	3.68	-36.834	-16.320	PASS
GFSK	HCH	0.191	-37.798	-19.809	PASS

GFSK LCH Graphs

Pref/GFSK/LCH

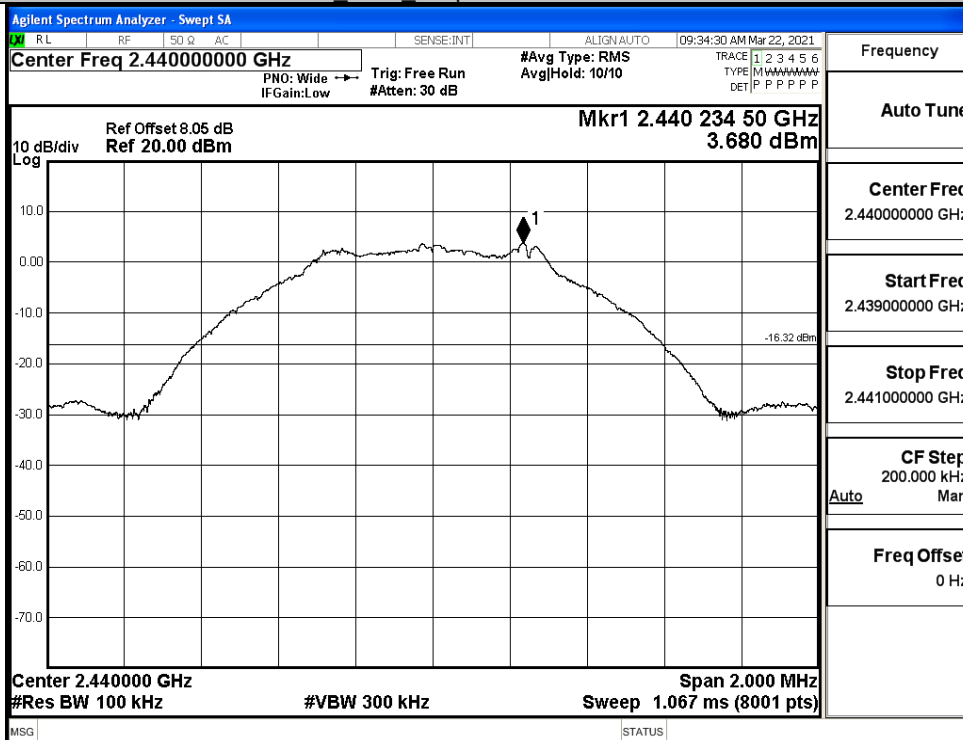


Puw/GFSK/LCH

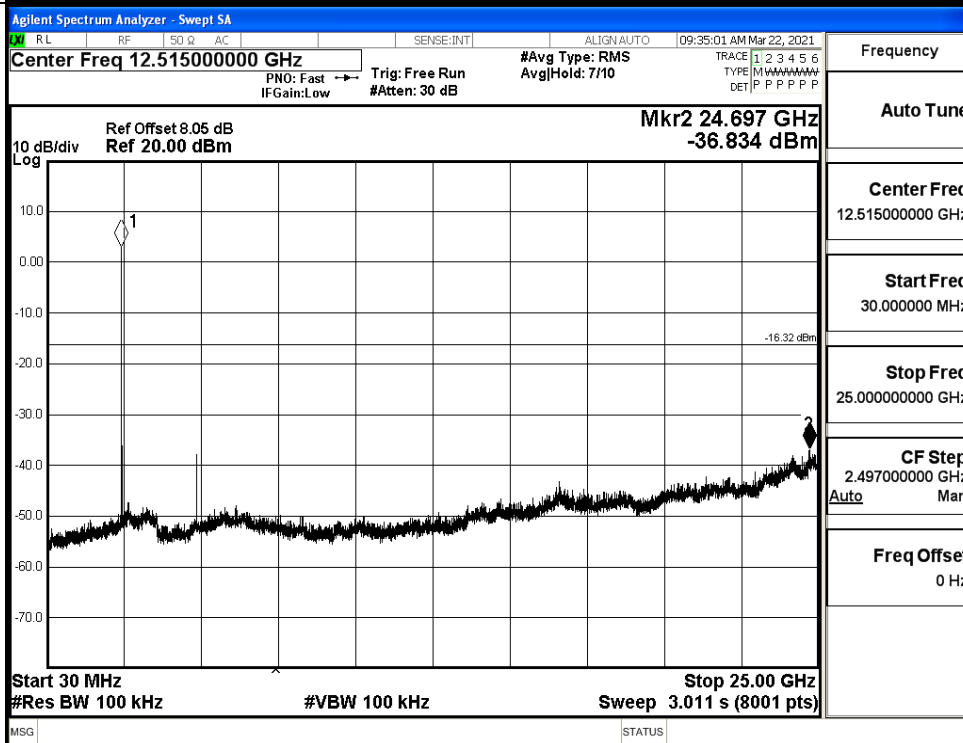


GFSK MCH Graphs

Pref/GFSK/MCH

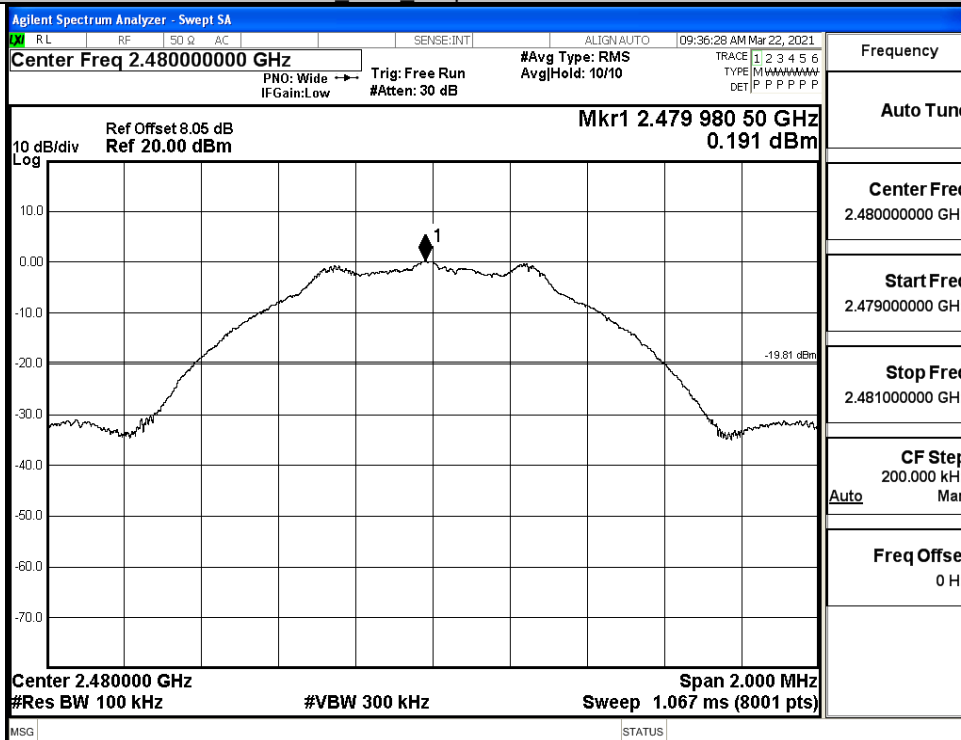


Puw/GFSK/MCH

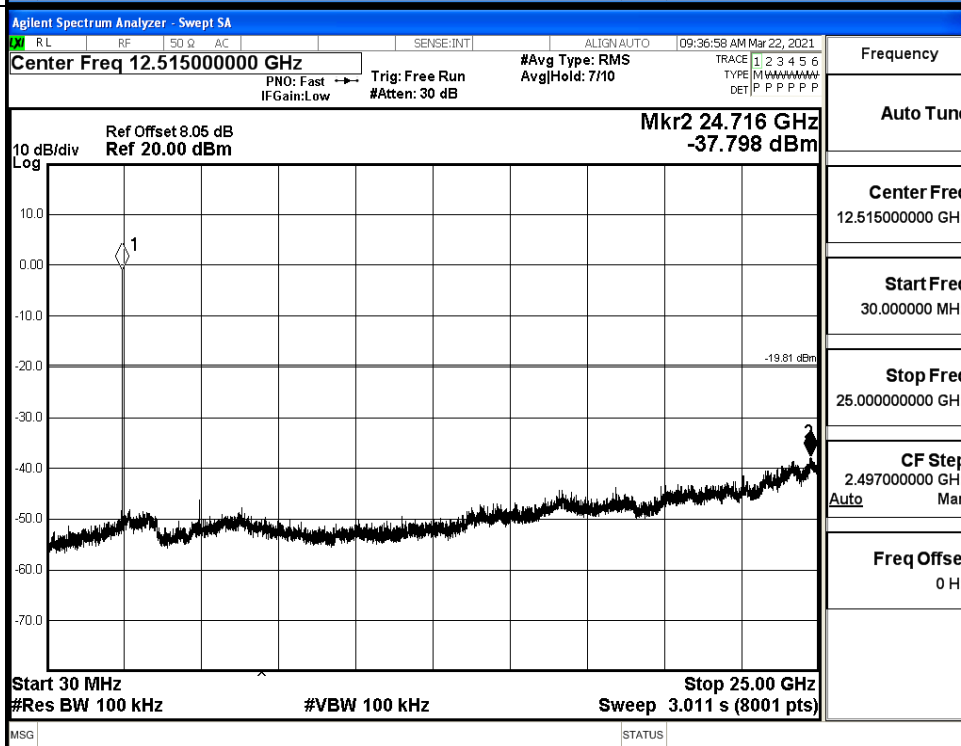


GFSK HCH Graphs

Pref/GFSK/HCH



Puw/GFSK/HCH

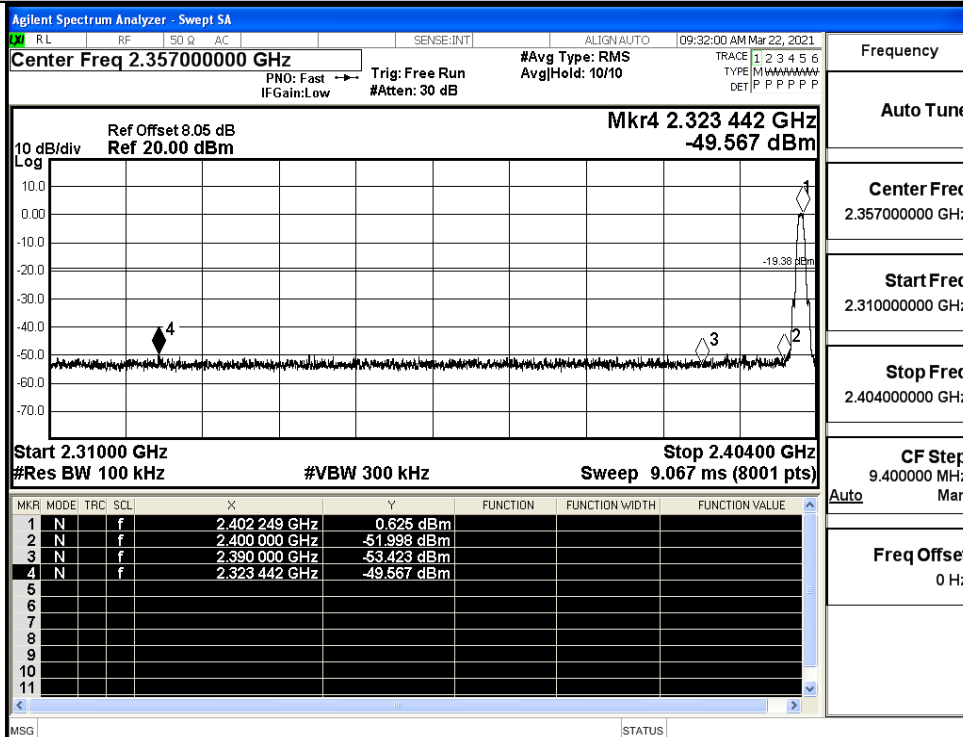


A.6 Band-edge for RF Conducted Emissions

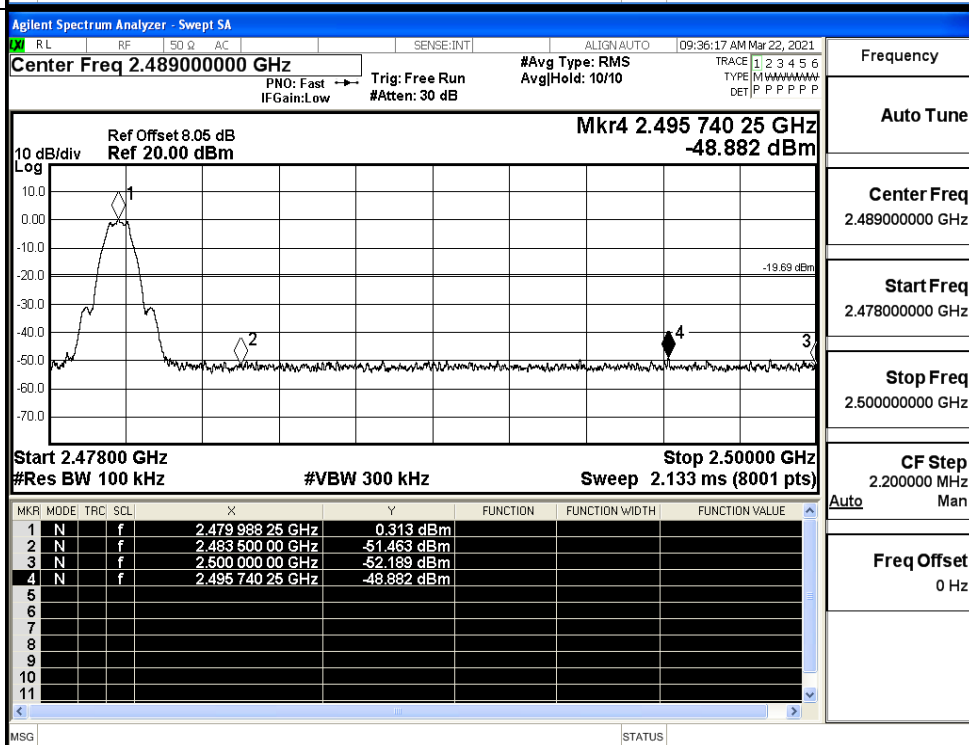
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.625	-49.567	-19.38	PASS
GFSK	HCH	0.313	-48.882	-19.69	PASS

Test Graphs

LCH



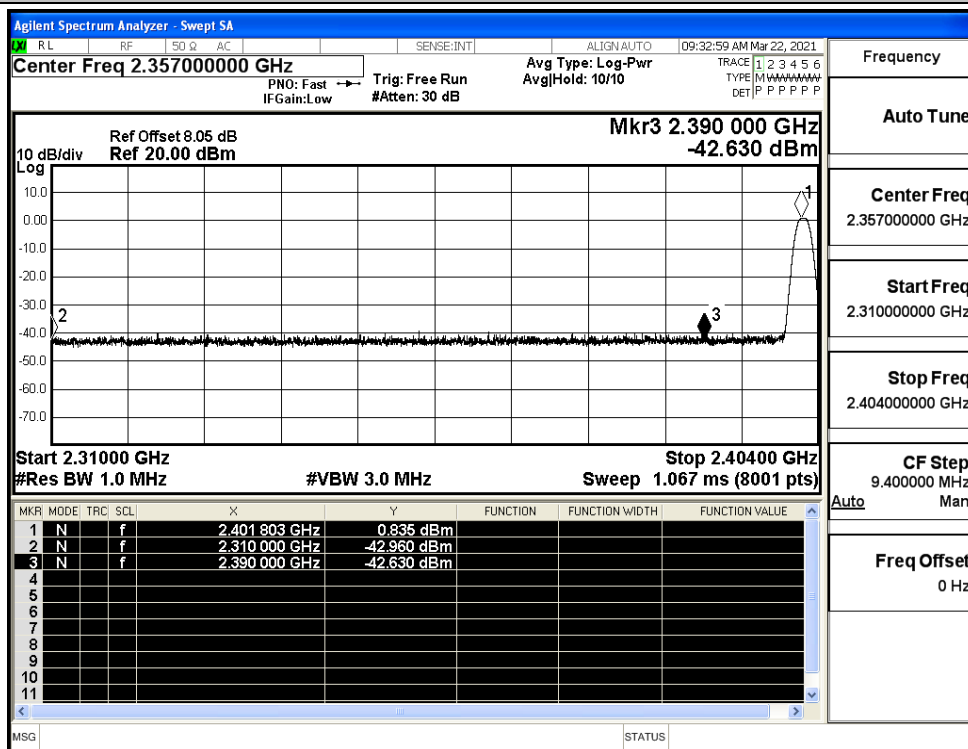
HCH



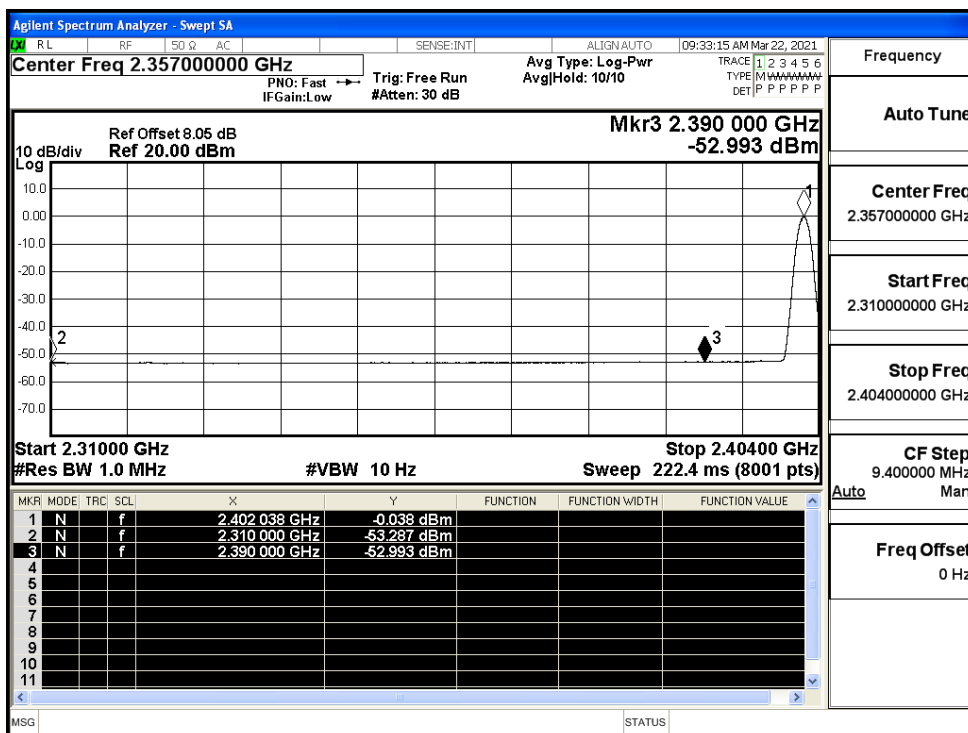
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
GFSK	2402	Ant1	2310.0	-42.96	2.0	0	54.30	PEAK	74	PASS
		Ant1	2310.0	-53.29	2.0	0	43.97	AV	54	PASS
		Ant1	2390.0	-42.63	2.0	0	54.63	PEAK	74	PASS
		Ant1	2390.0	-52.99	2.0	0	44.27	AV	54	PASS
	2480	Ant1	2483.5	-42.06	2.0	0	55.20	PEAK	74	PASS
		Ant1	2483.5	-52.39	2.0	0	44.87	AV	54	PASS
		Ant1	2500.0	-42.57	2.0	0	54.69	PEAK	74	PASS
		Ant1	2500.0	-52.36	2.0	0	44.90	AV	54	PASS

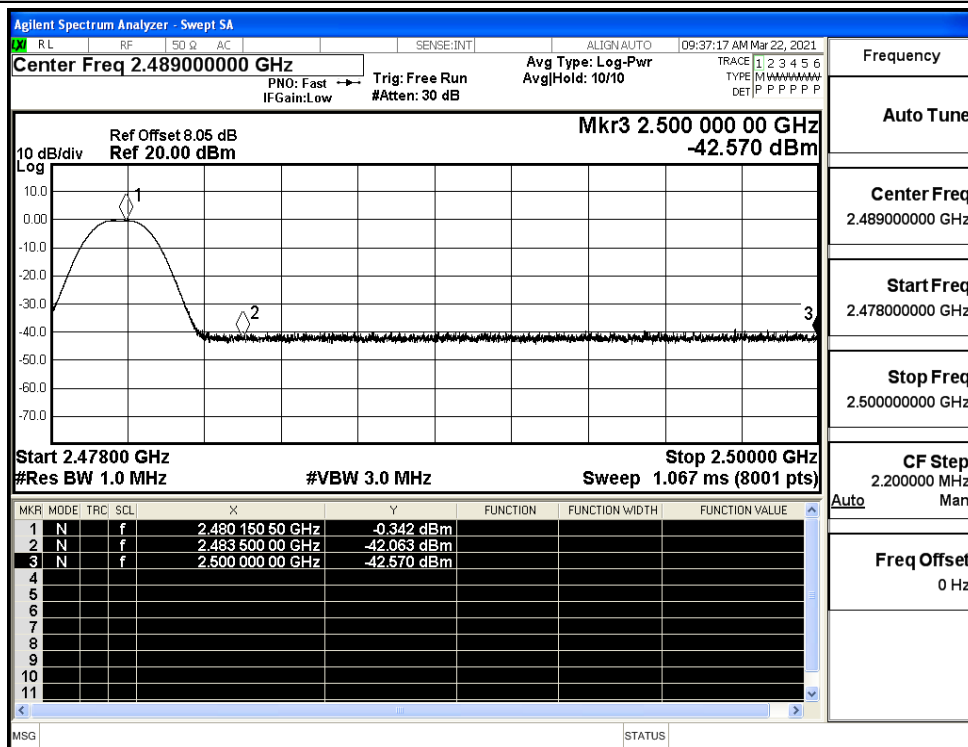
Restrict-band band-edge measurements_GFSK_2402_Ant1_PEAK



Restrict-band band-edge measurements_GFSK_2402_Ant1_AV



Restrict-band band-edge measurements_GFSK_2480_Ant1_PEAK



Restrict-band band-edge measurements_GFSK_2480_Ant1_AV

