

Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: 2.4G wireless microphone

Trade Mark: BOYA, MOVO

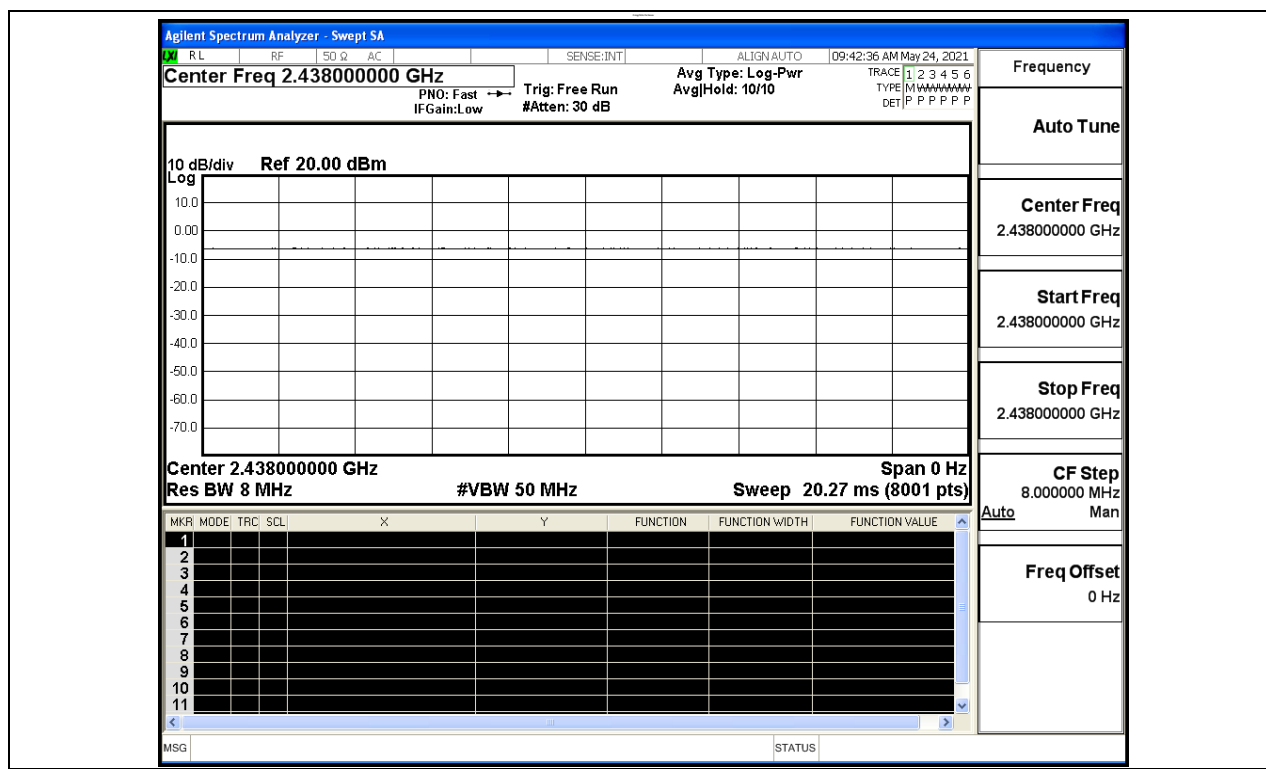
Test Model: BY-WM4 PRO RXD

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	51.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

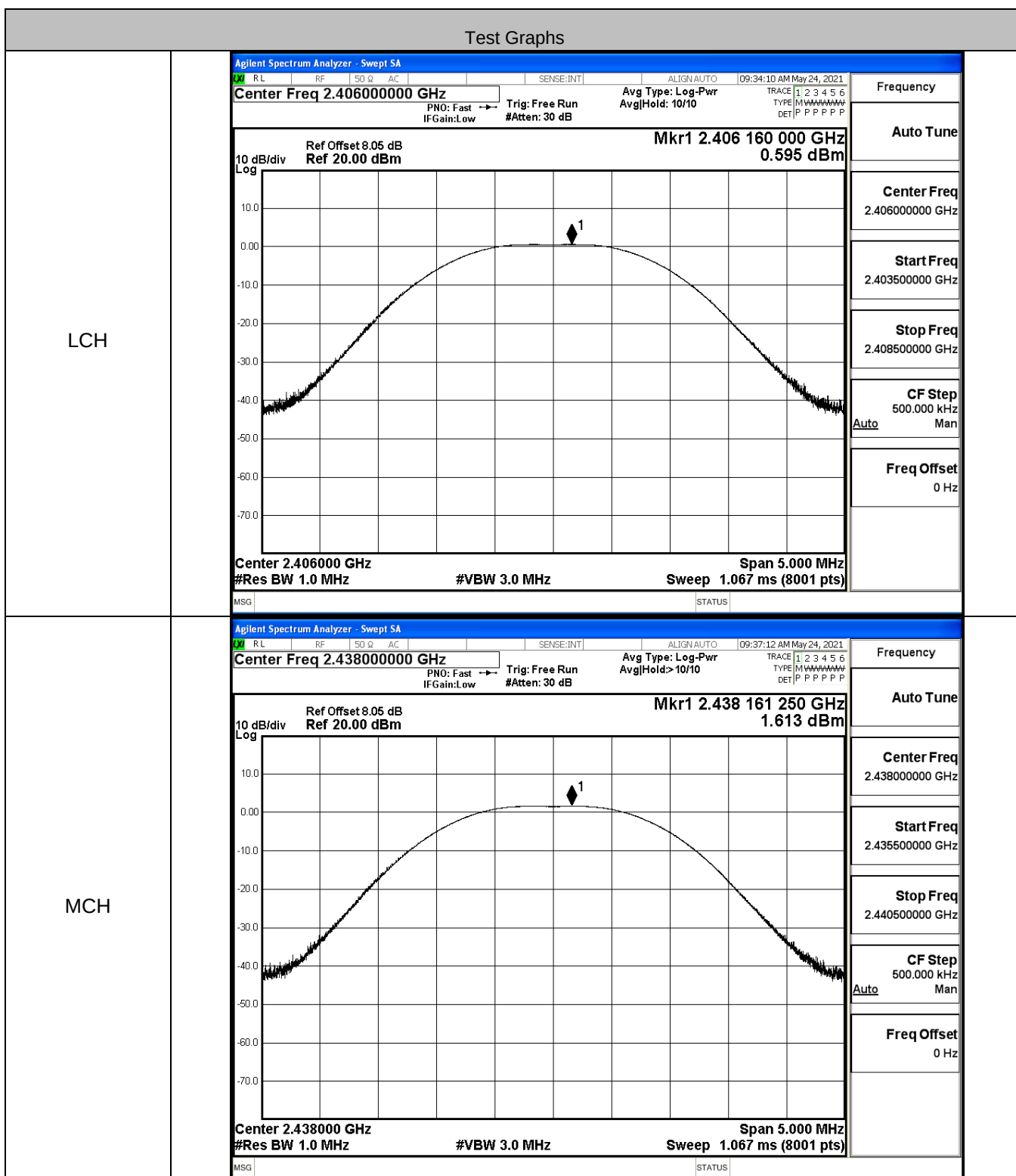
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
GFSK	2438	Ant1	100	PASS

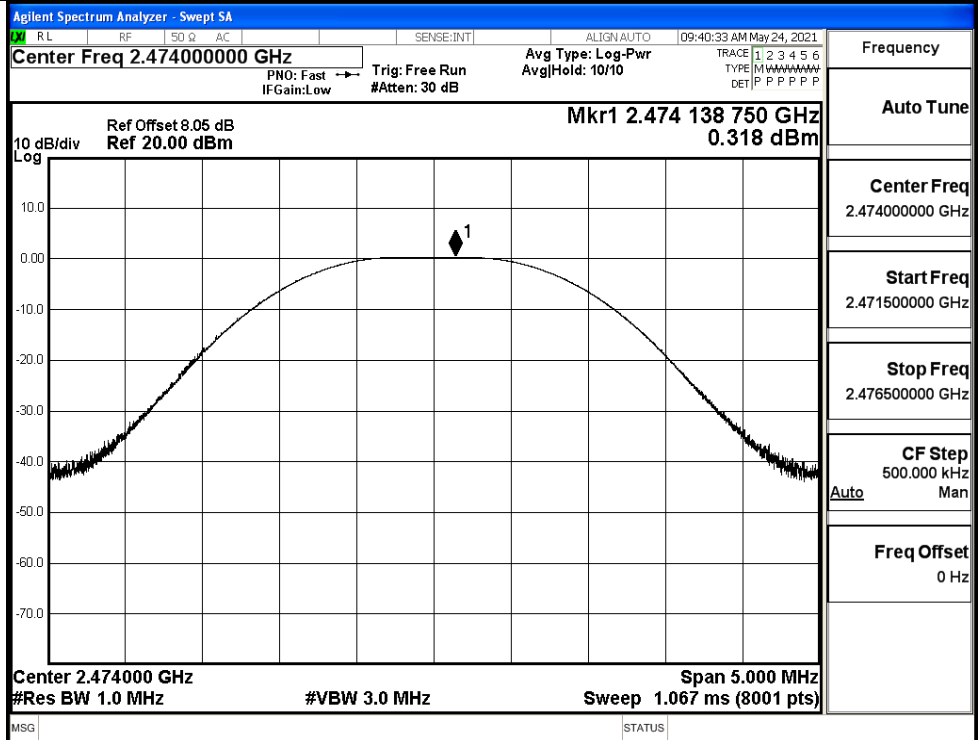


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.595	30	PASS
GFSK	MCH	1.613	30	PASS
GFSK	HCH	0.318	30	PASS



HCH

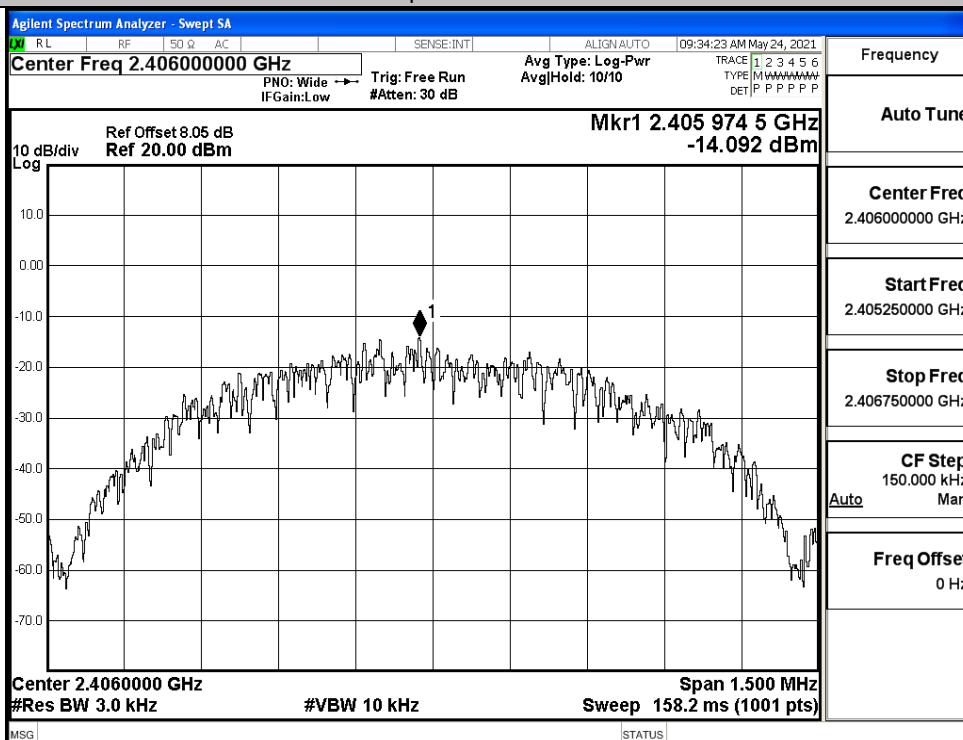


A.3 Maximum Power Spectral Density

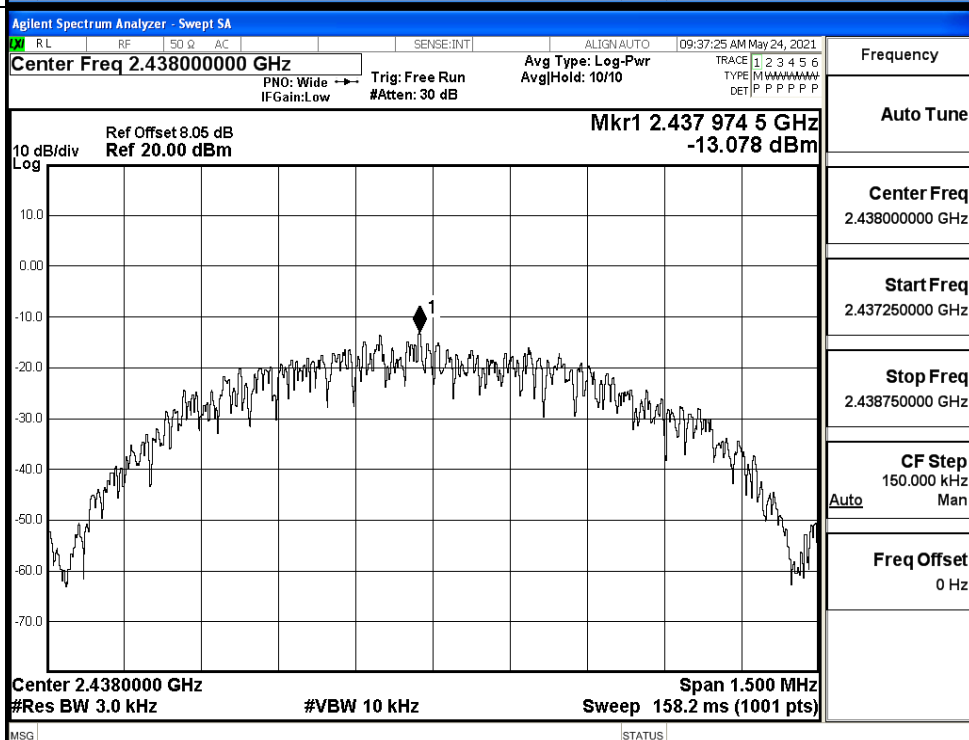
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
GFSK	LCH	-14.092	8	PASS
GFSK	MCH	-13.078	8	PASS
GFSK	HCH	-14.356	8	PASS

Test Graphs

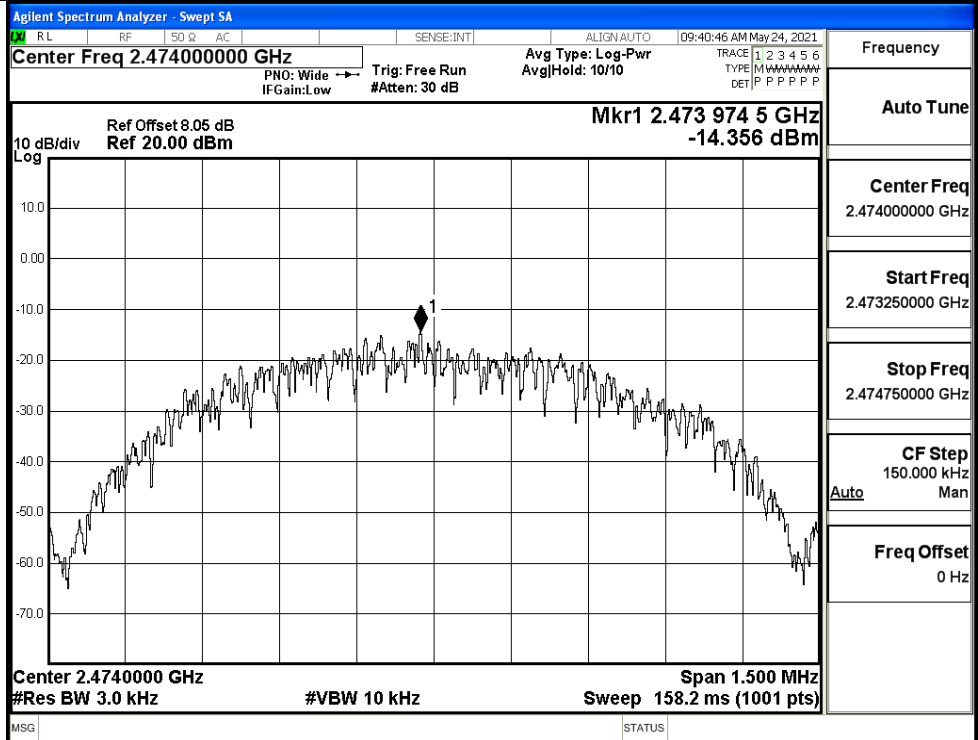
LCH



MCH



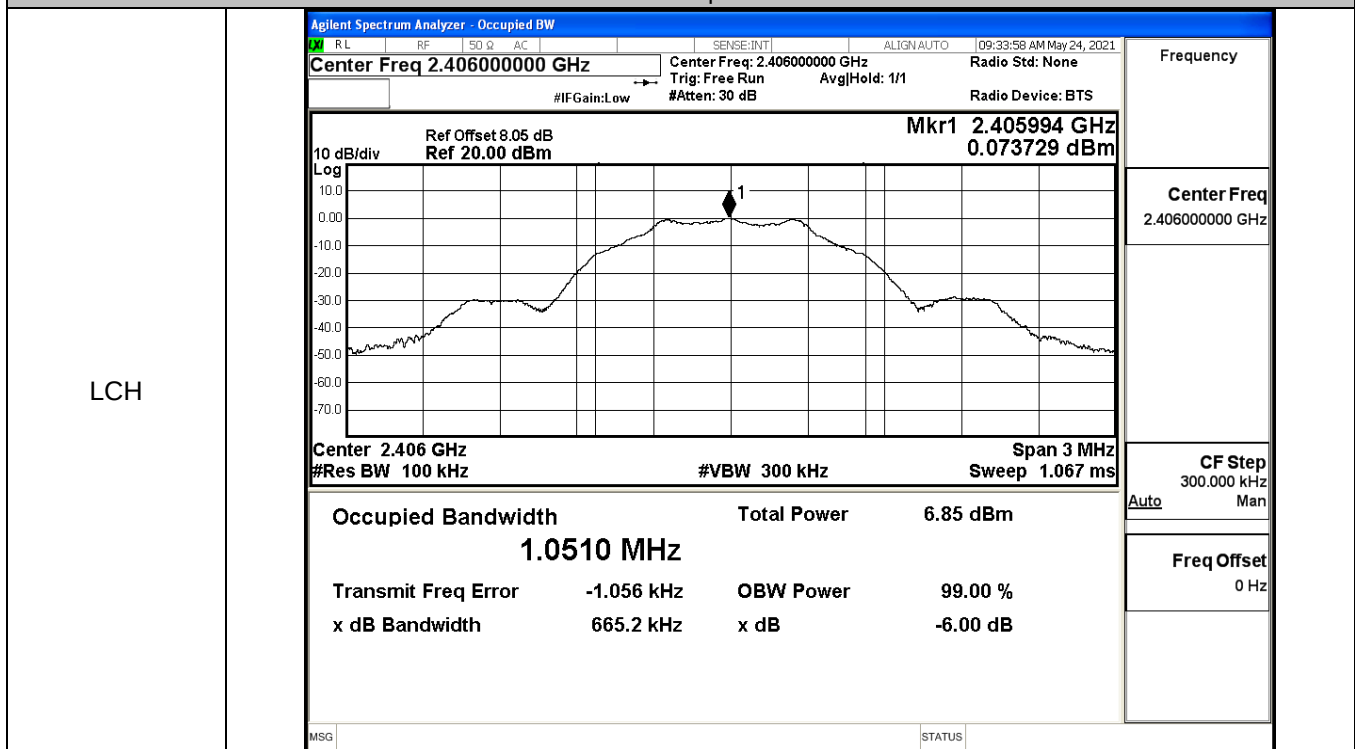
HCH



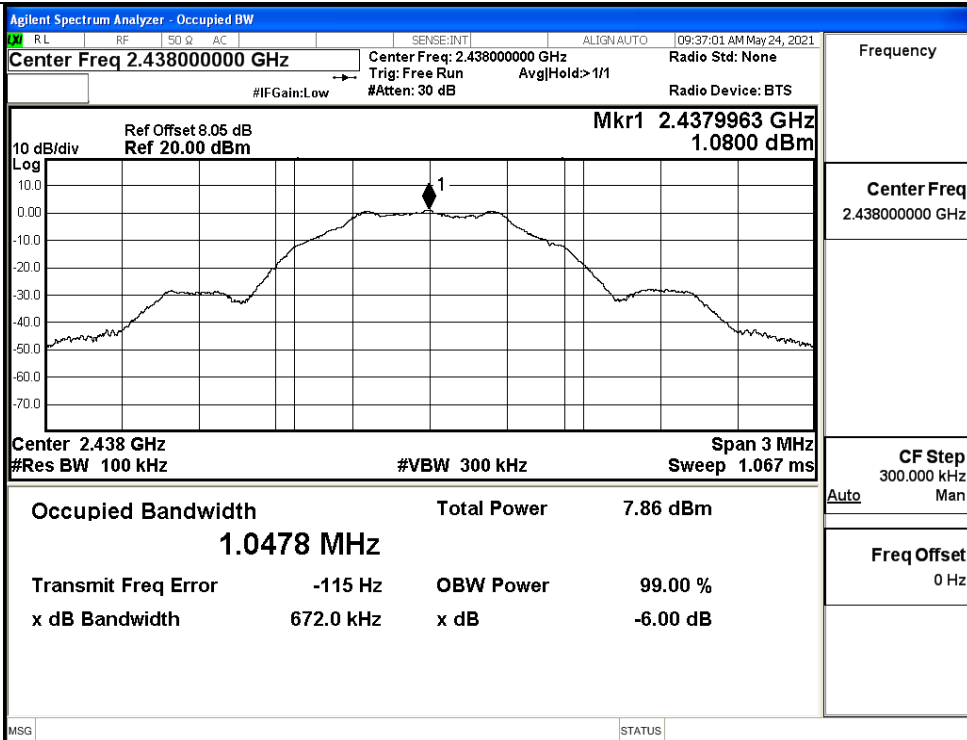
A.4 6dB Bandwidth & A.5 99% Occupied Bandwidth Measurement

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	99% Occupied Bandwidth Measurement [MHz]	Verdict
GFSK	LCH	0.6652	≥ 0.5	1.0510	PASS
GFSK	MCH	0.6720	≥ 0.5	1.0478	PASS
GFSK	HCH	0.6920	≥ 0.5	1.0490	PASS

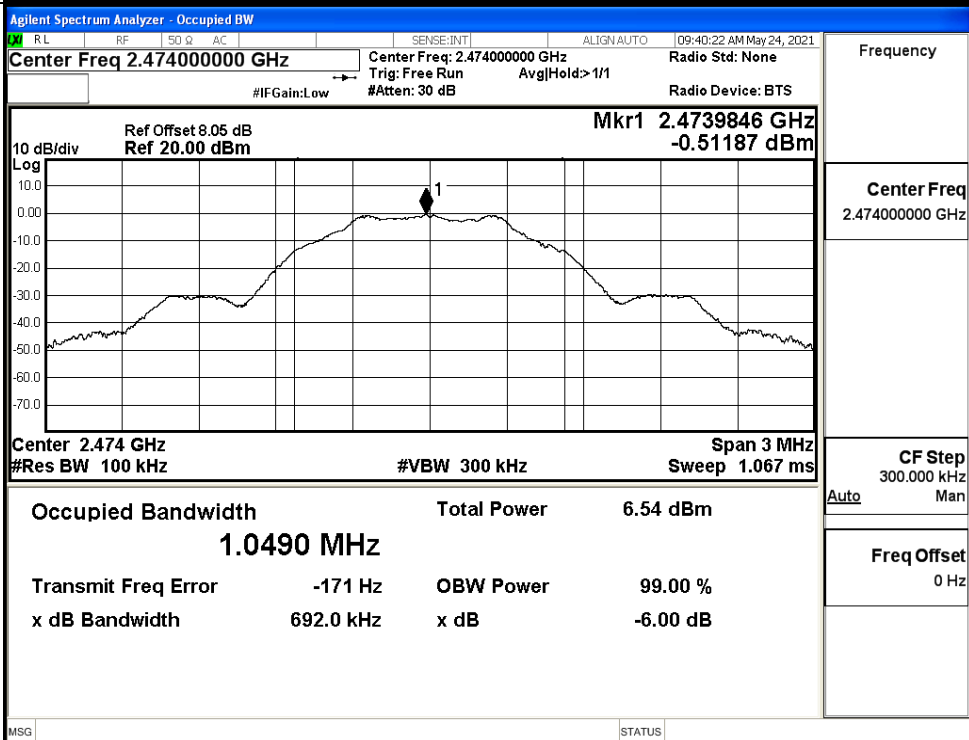
Test Graphs



MCH



HCH

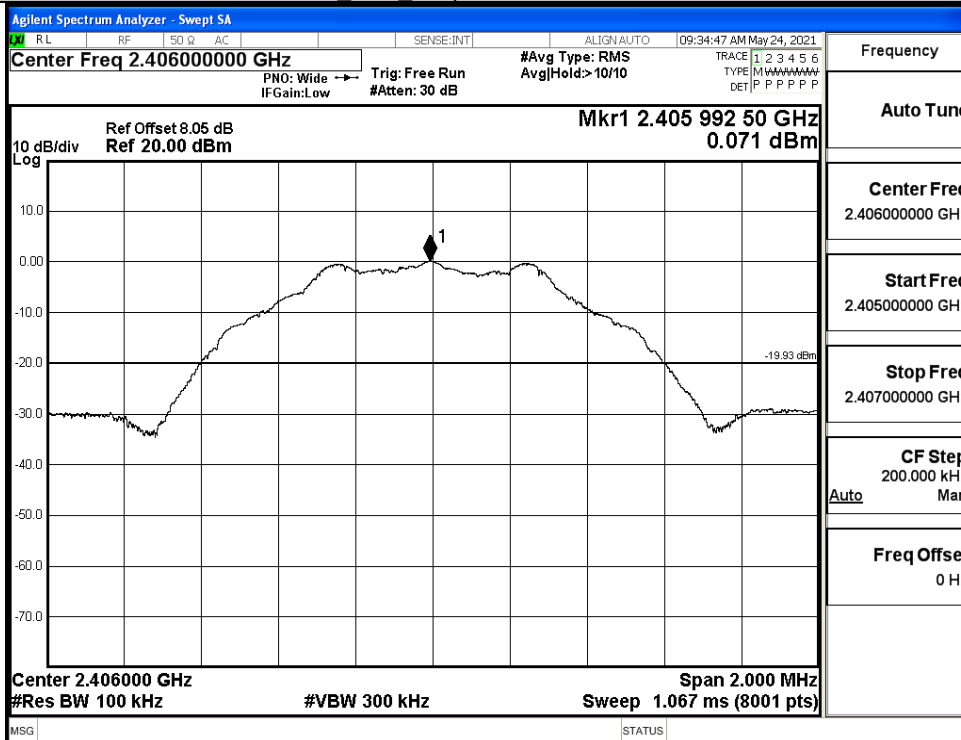


A.5 RF Conducted Spurious Emissions

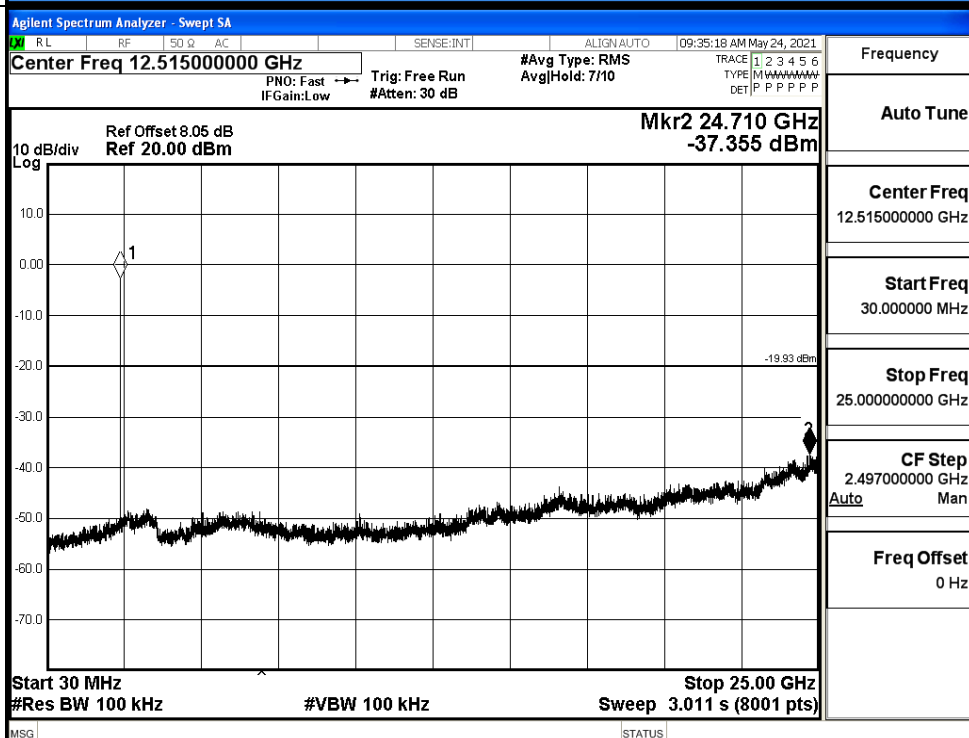
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.071	-37.355	-19.929	PASS
GFSK	MCH	1.085	-36.901	-18.915	PASS
GFSK	HCH	-0.222	-38.481	-20.222	PASS

GFSK LCH Graphs

Pref/GFSK/LCH

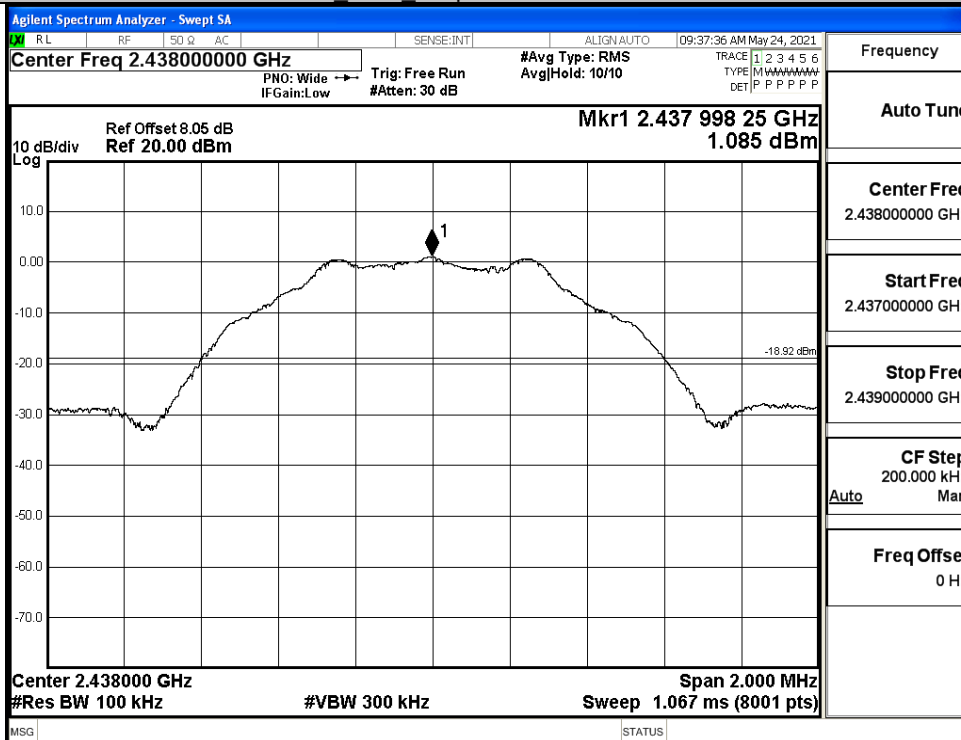


Puw/GFSK/LCH

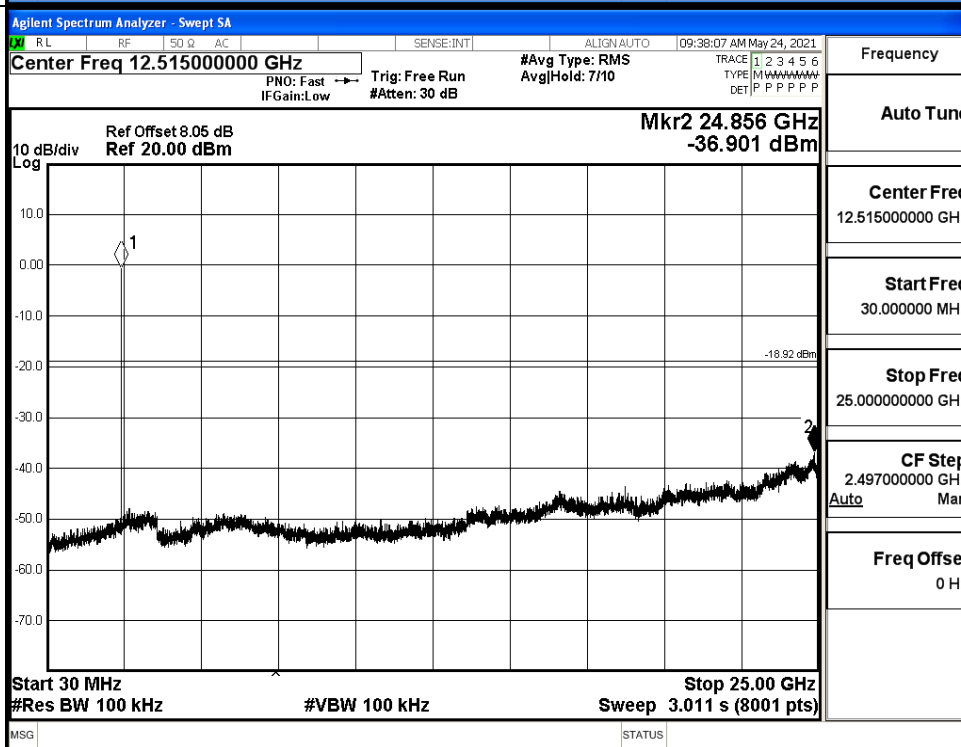


GFSK MCH Graphs

Pref/GFSK/MCH

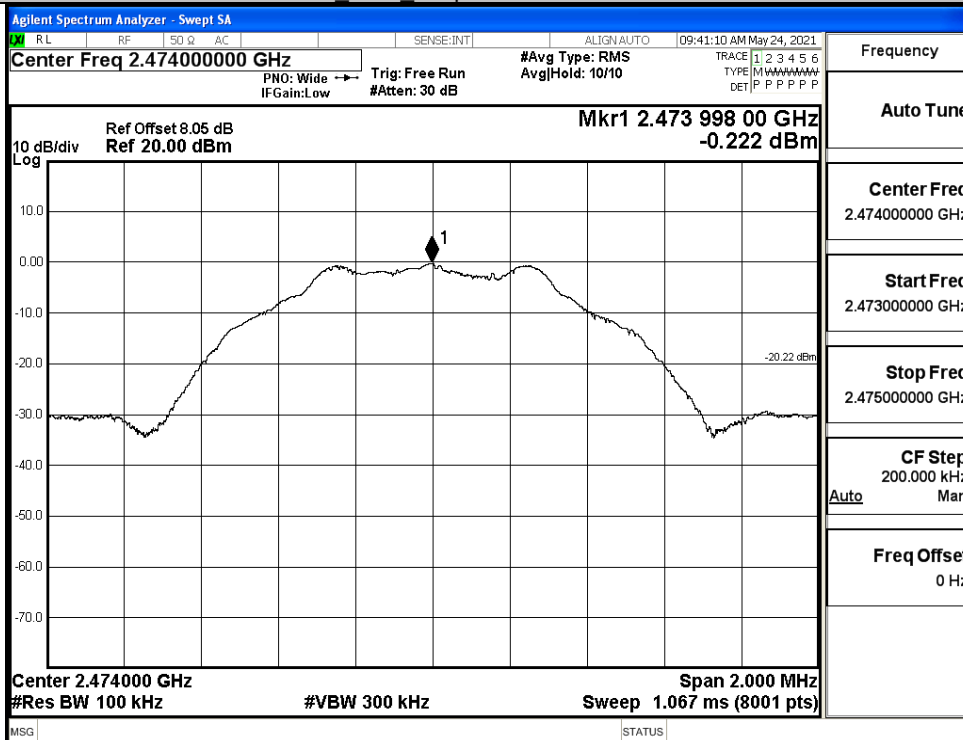


Puw/GFSK/MCH



GFSK HCH Graphs

Pref/GFSK/HCH



Puw/GFSK/HCH

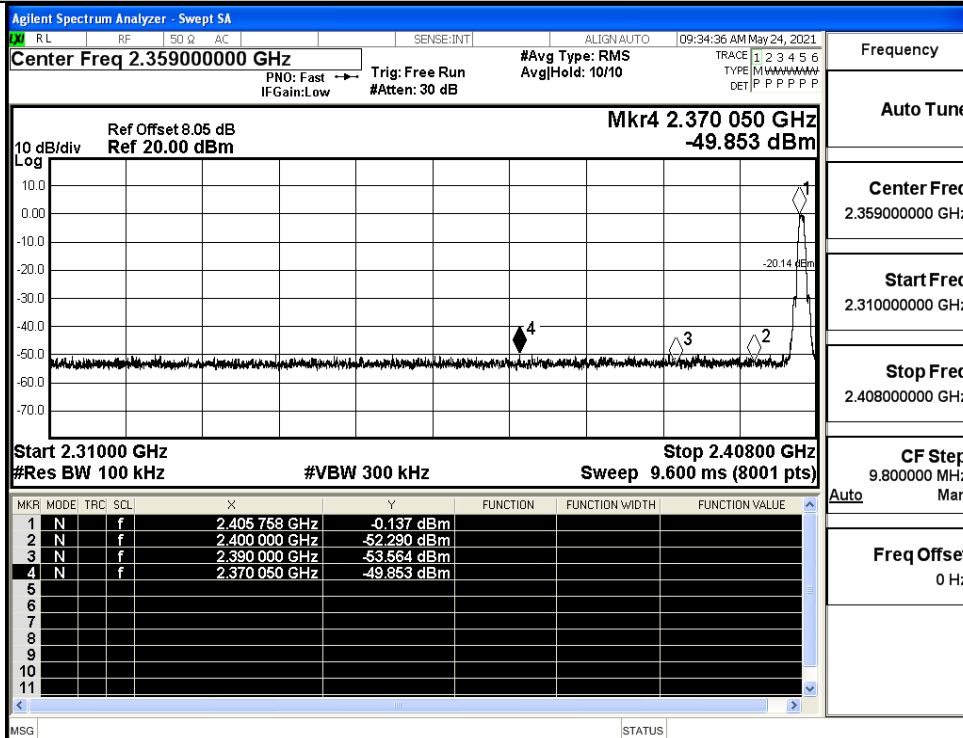


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.137	-49.853	-20.14	PASS
GFSK	HCH	-0.162	-49.151	-20.16	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.359000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.408000000 GHz

CF Step

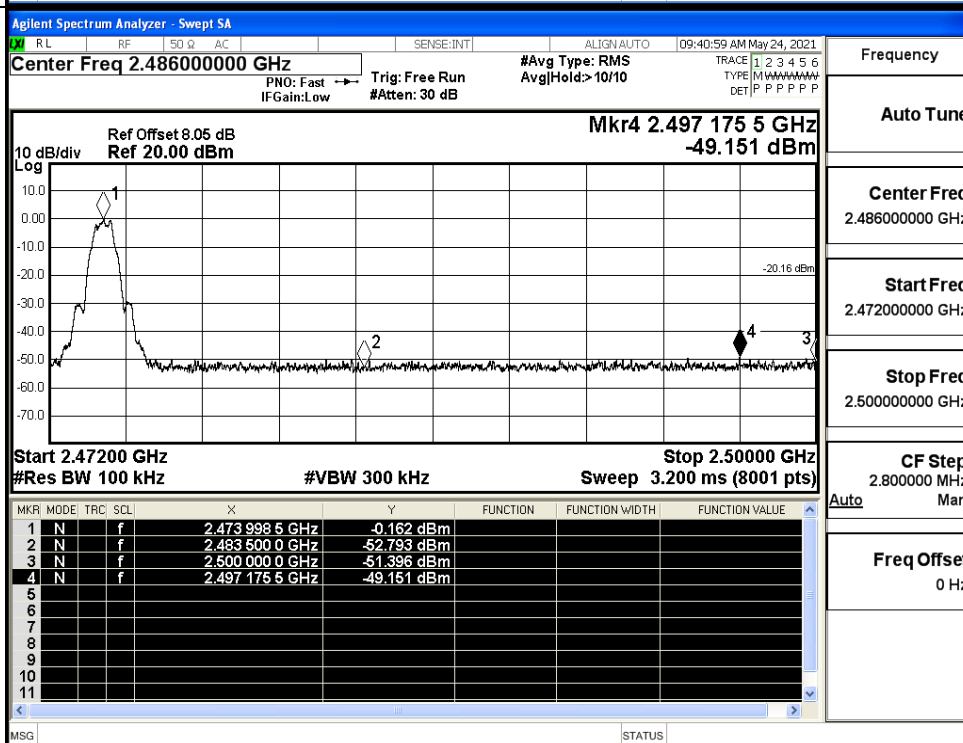
9.800000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.486000000 GHz

Start Freq

2.472000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.800000 MHz

Auto Man

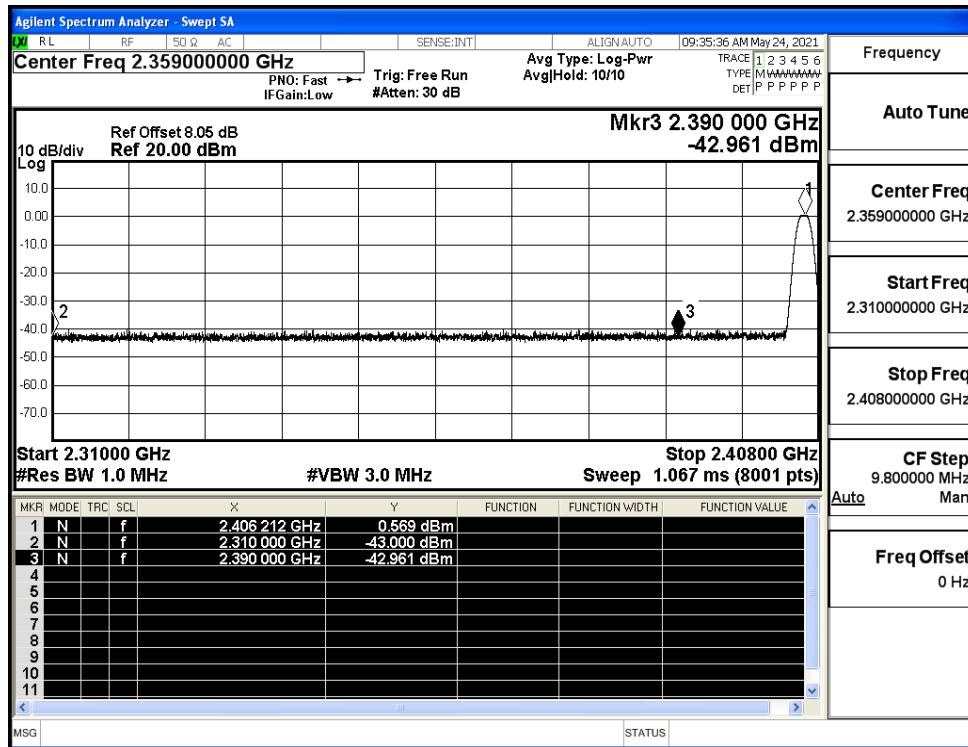
Freq Offset

0 Hz

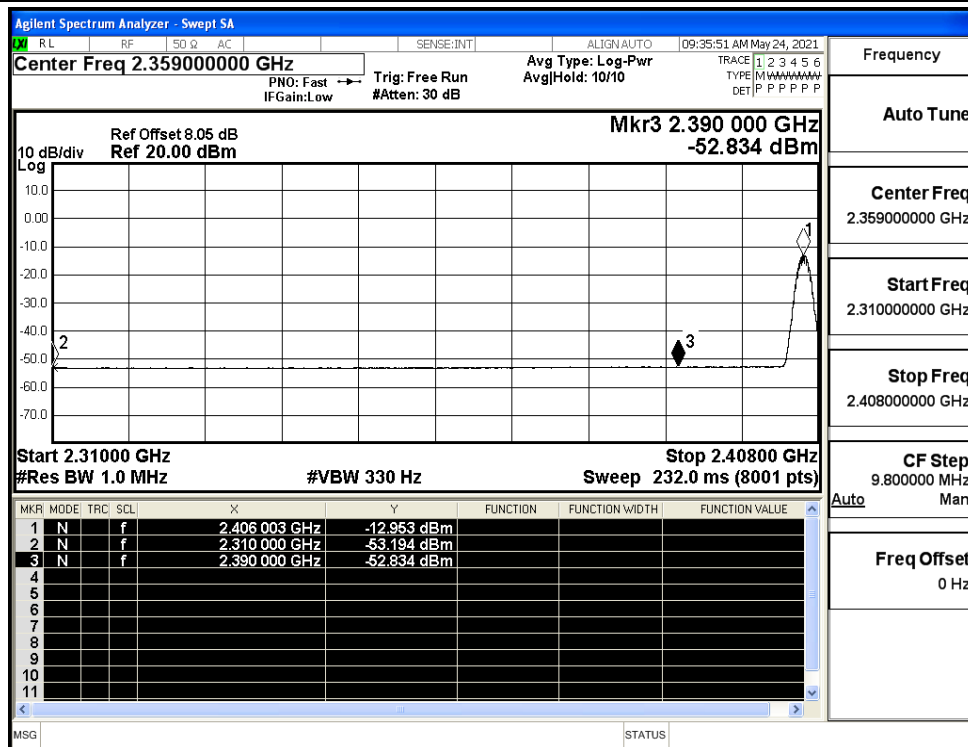
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
GFSK	2402	Ant1	2310.0	-43.00	2.0	0	52.26	PEAK	74	PASS
		Ant1	2310.0	-53.19	2.0	0	42.06	AV	54	PASS
		Ant1	2390.0	-42.96	2.0	0	52.30	PEAK	74	PASS
		Ant1	2390.0	-52.83	2.0	0	42.42	AV	54	PASS
	2480	Ant1	2483.5	-42.30	2.0	0	52.95	PEAK	74	PASS
		Ant1	2483.5	-52.44	2.0	0	42.82	AV	54	PASS
		Ant1	2500.0	-42.03	2.0	0	53.23	PEAK	74	PASS
		Ant1	2500.0	-52.17	2.0	0	43.09	AV	54	PASS

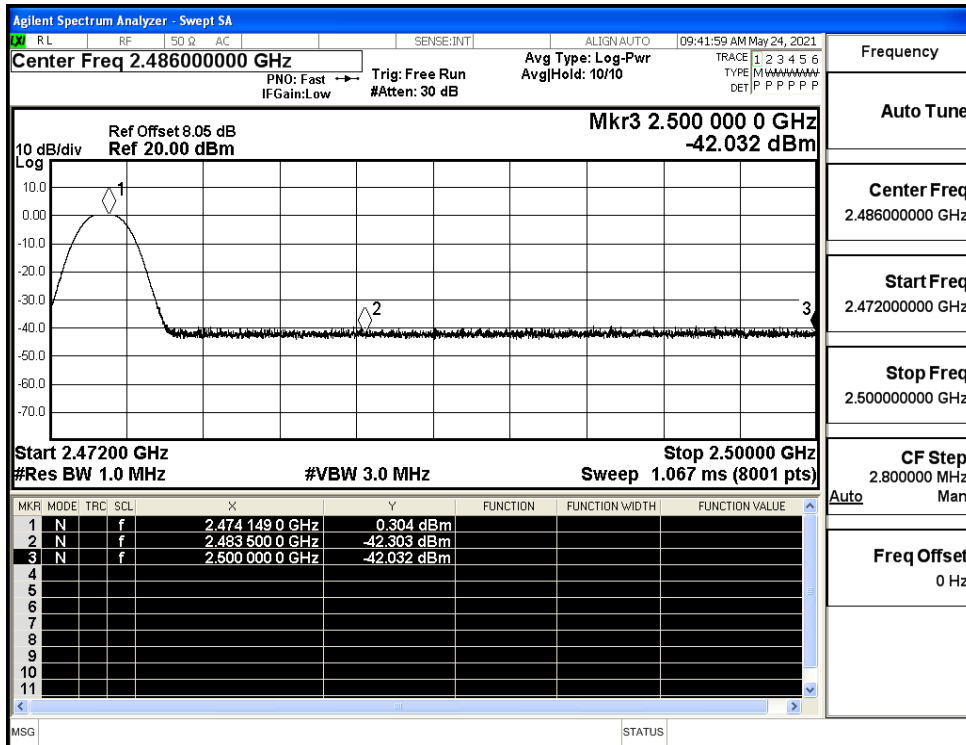
Restrict-band band-edge measurements_GFSK_2402_Ant1_PEAK



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

