

Appendix A

RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: WiFi Tablet

Trade Mark: CWOWDEFU

Test Model: C70W

Environmental Conditions

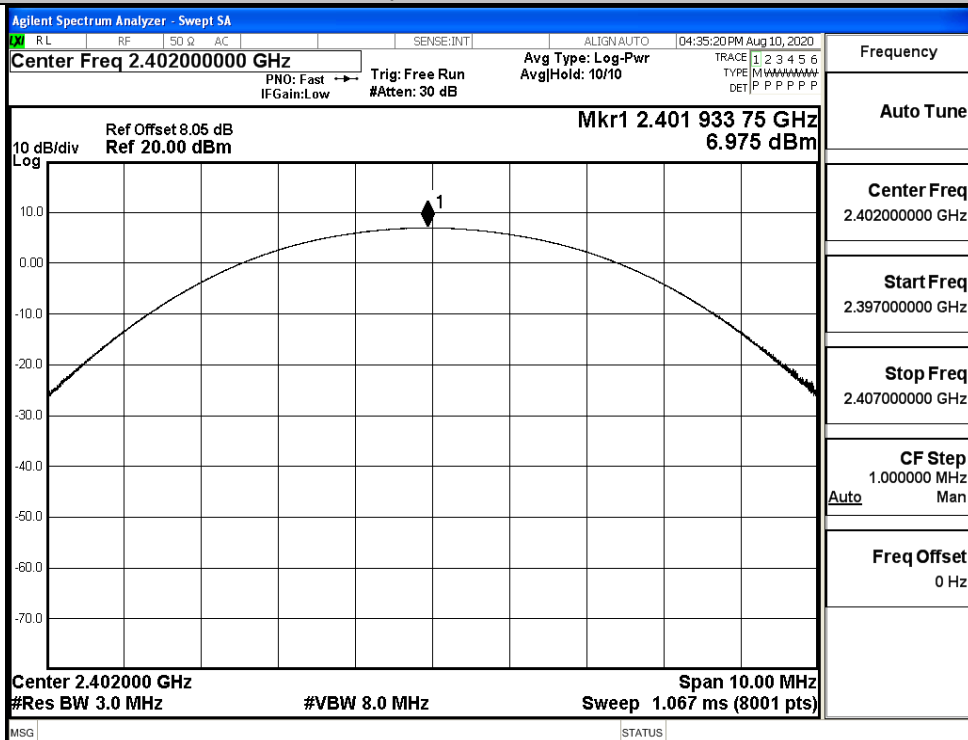
Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	JAM ZHENG
Supervised by:	Li Huan

A.1 Maximum Conducted Peak Output Power

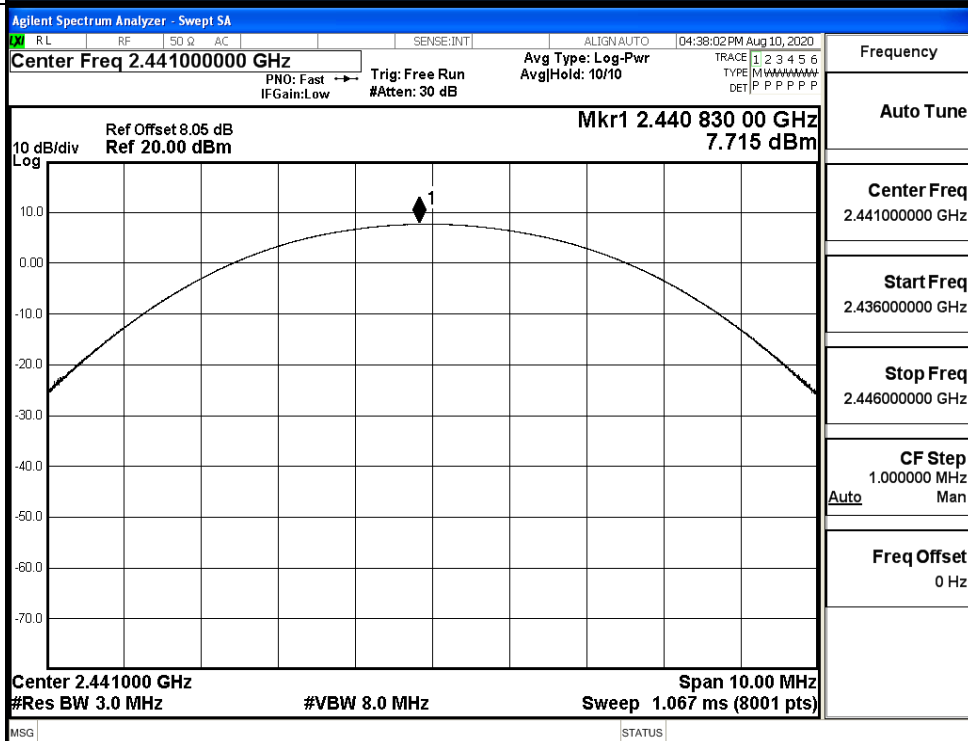
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	6.975	21	PASS
	MCH	7.715	21	PASS
	HCH	6.207	21	PASS
$\pi/4$ DQPSK	LCH	6.209	21	PASS
	MCH	7.018	21	PASS
	HCH	5.440	21	PASS
8DPSK	LCH	6.282	21	PASS
	MCH	7.044	21	PASS
	HCH	5.432	21	PASS

Test Graphs

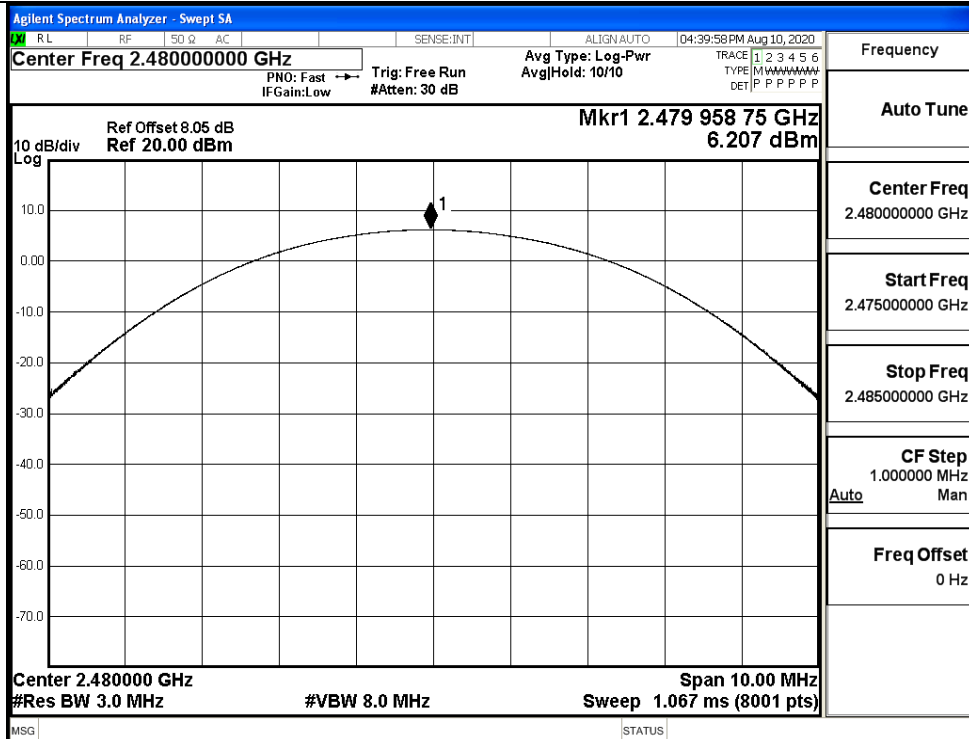
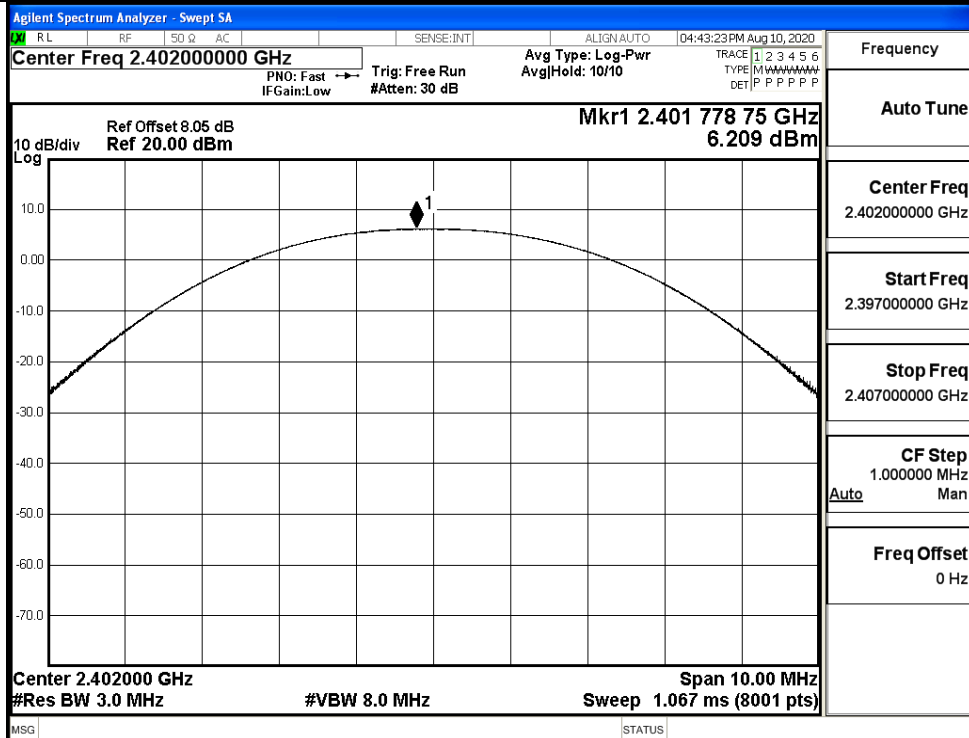
GFSK/LCH

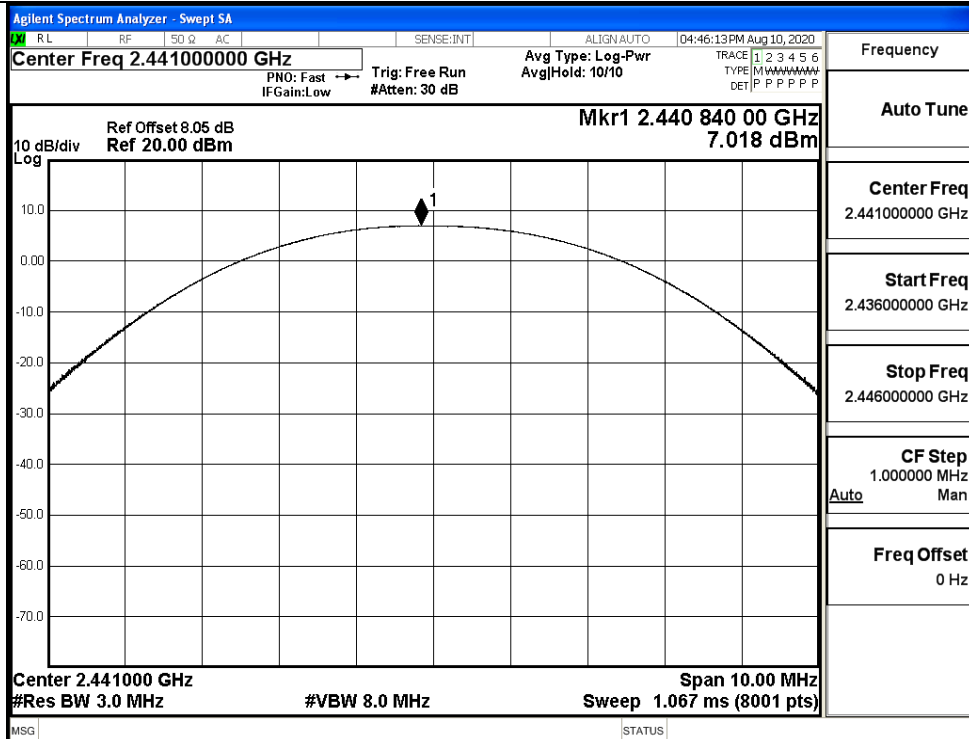
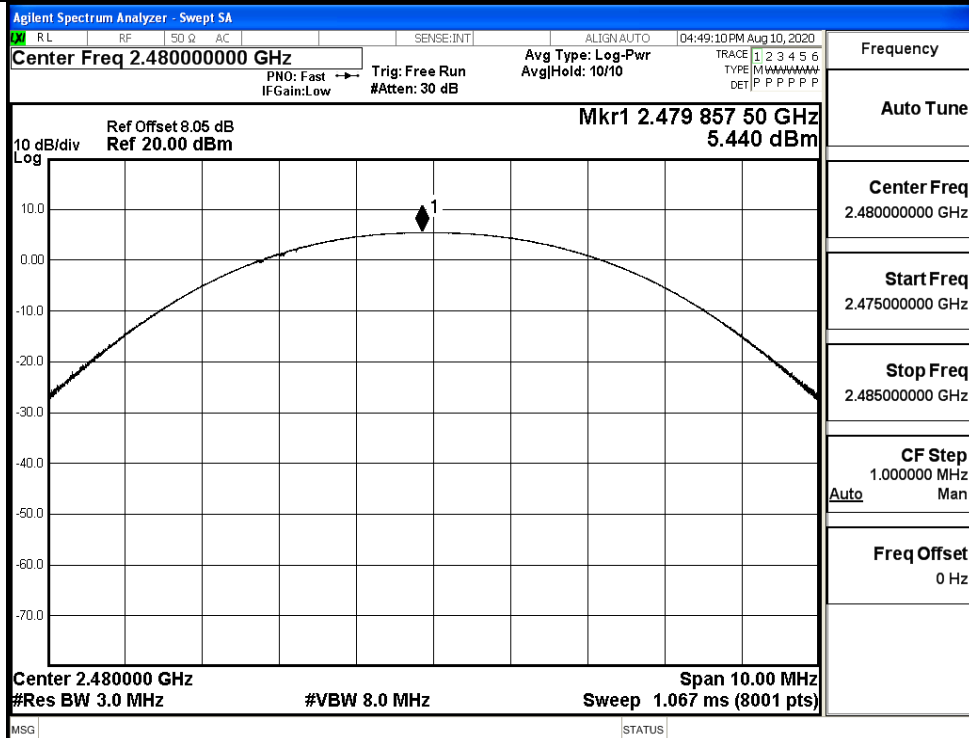


GFSK/MCH

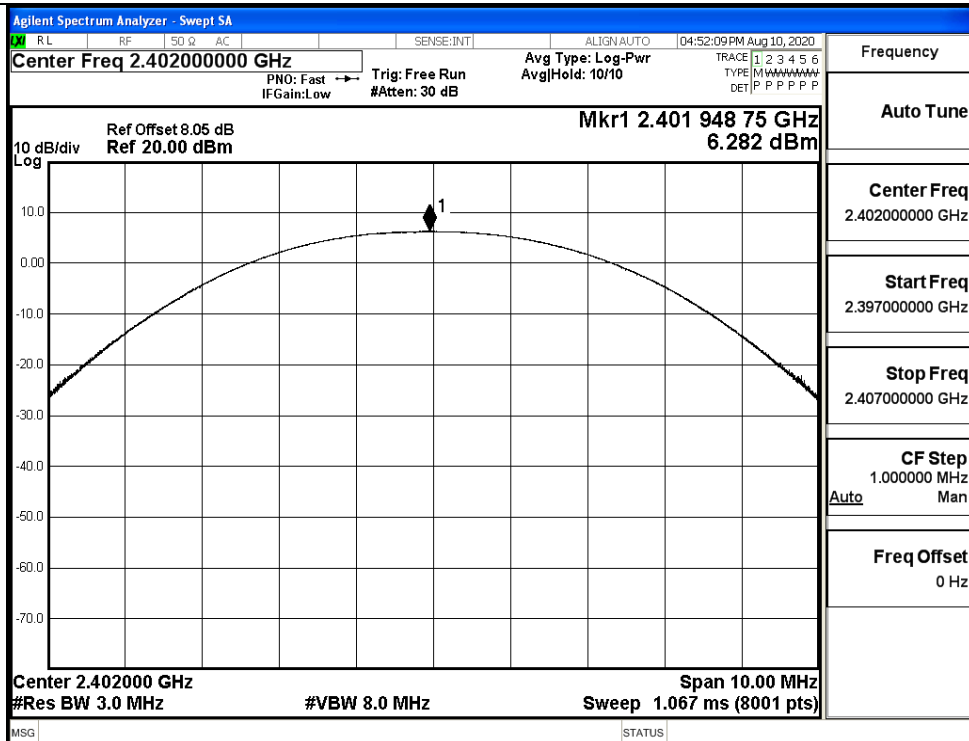


GFSK/HCH

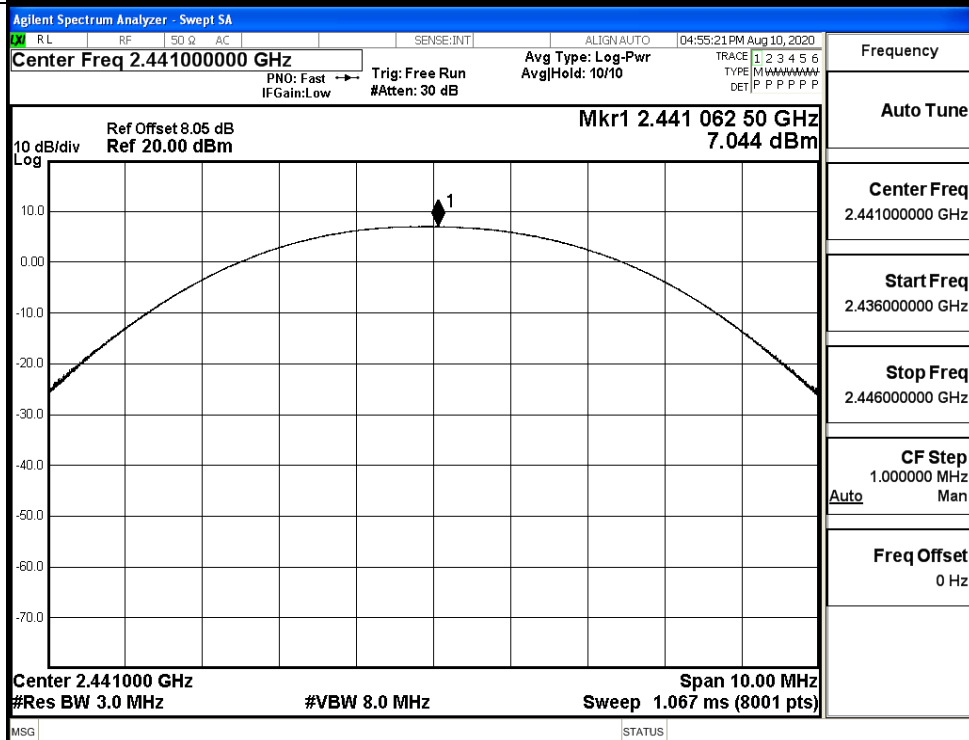
 $\pi/4$ DQPSK/LCH

$\pi/4$ DQPSK/MCH $\pi/4$ DQPSK/HCH

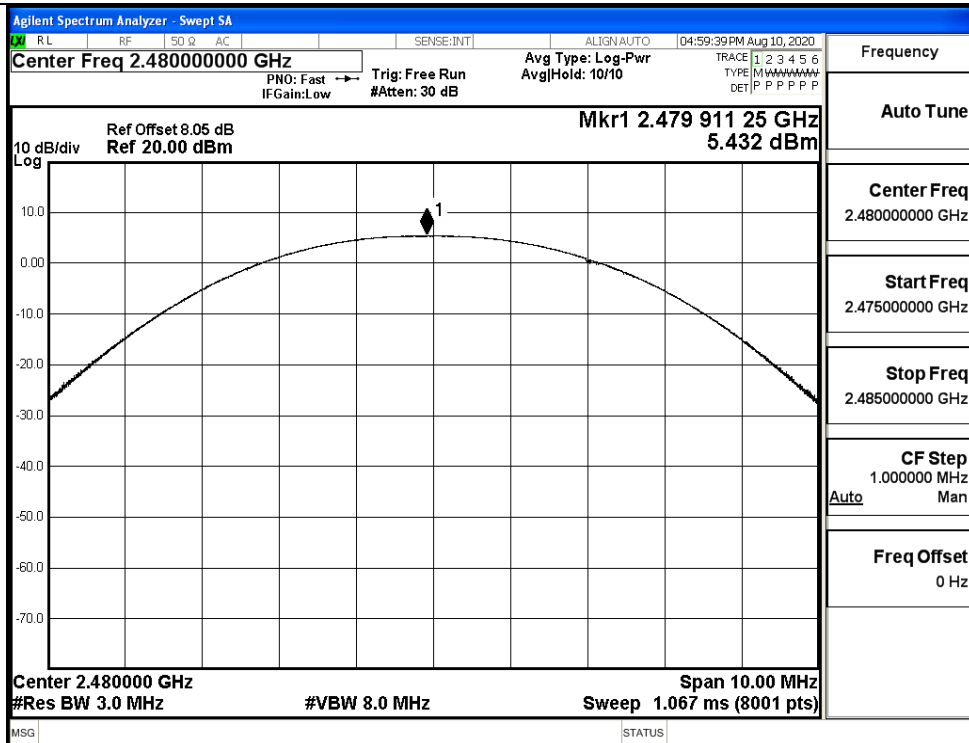
8DPSK/LCH



8DPSK/MCH



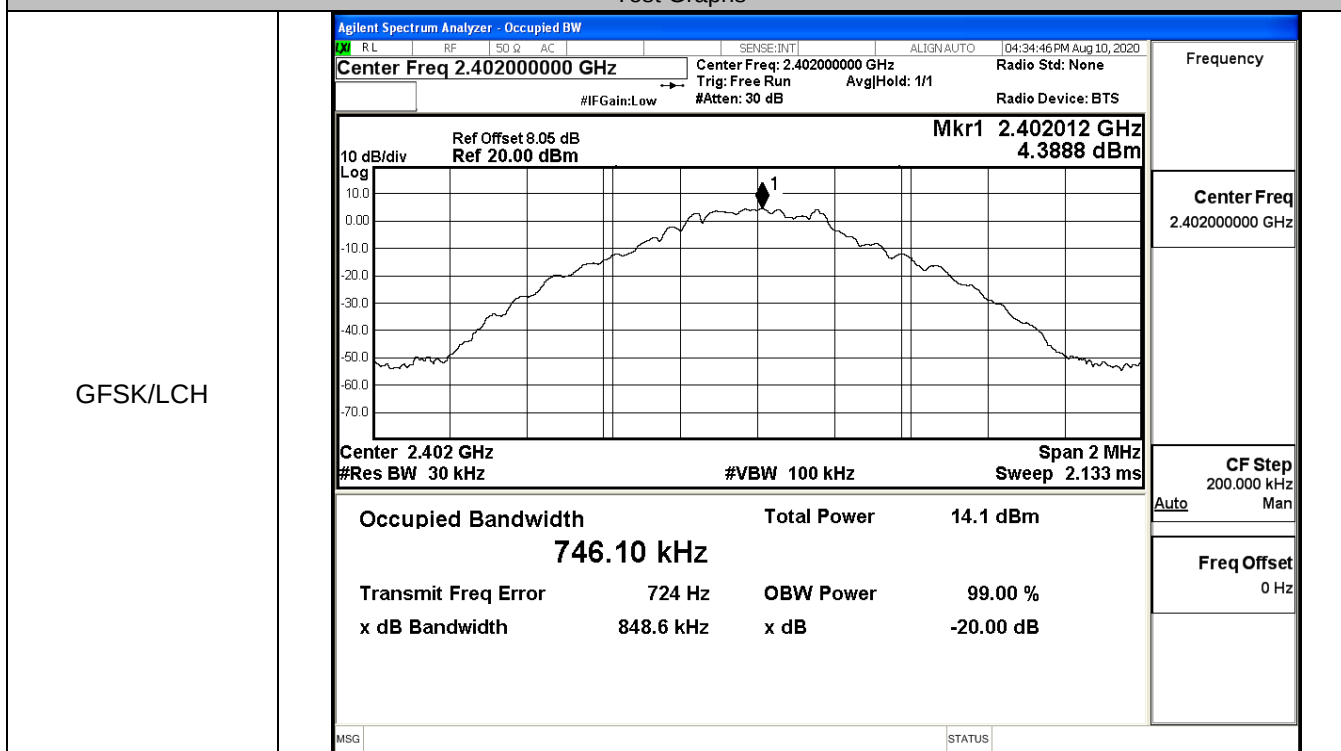
8DPSK/HCH



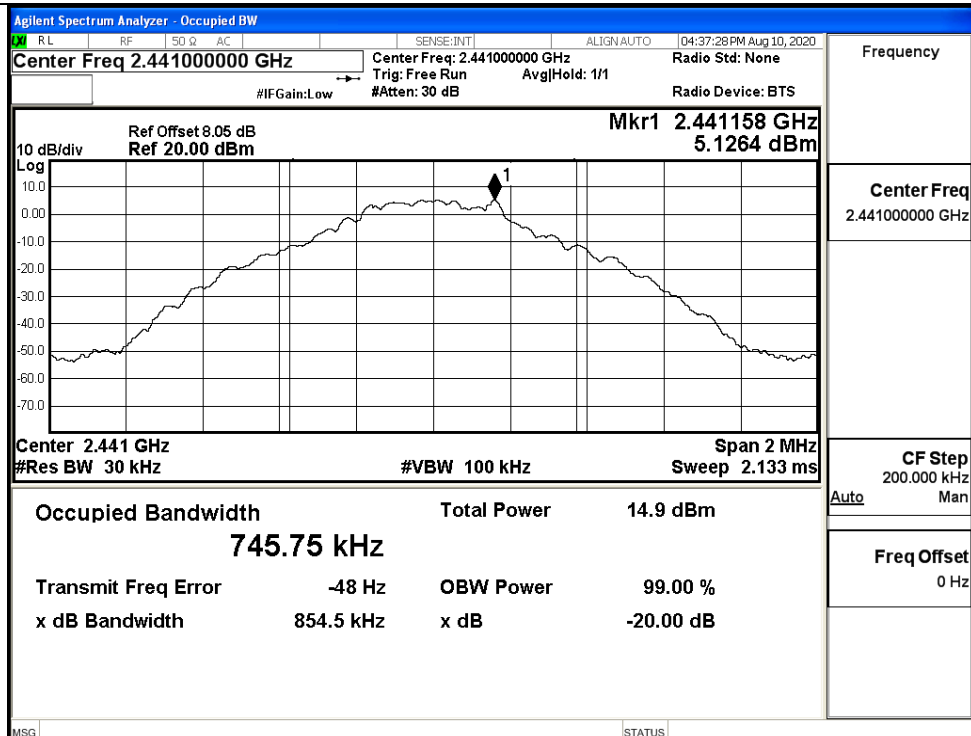
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.8486	Not Specified	PASS
	MCH	0.8545	Not Specified	PASS
	HCH	0.8466	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.266	Not Specified	PASS
	MCH	1.266	Not Specified	PASS
	HCH	1.264	Not Specified	PASS
8DPSK	LCH	1.265	Not Specified	PASS
	MCH	1.266	Not Specified	PASS
	HCH	1.262	Not Specified	PASS

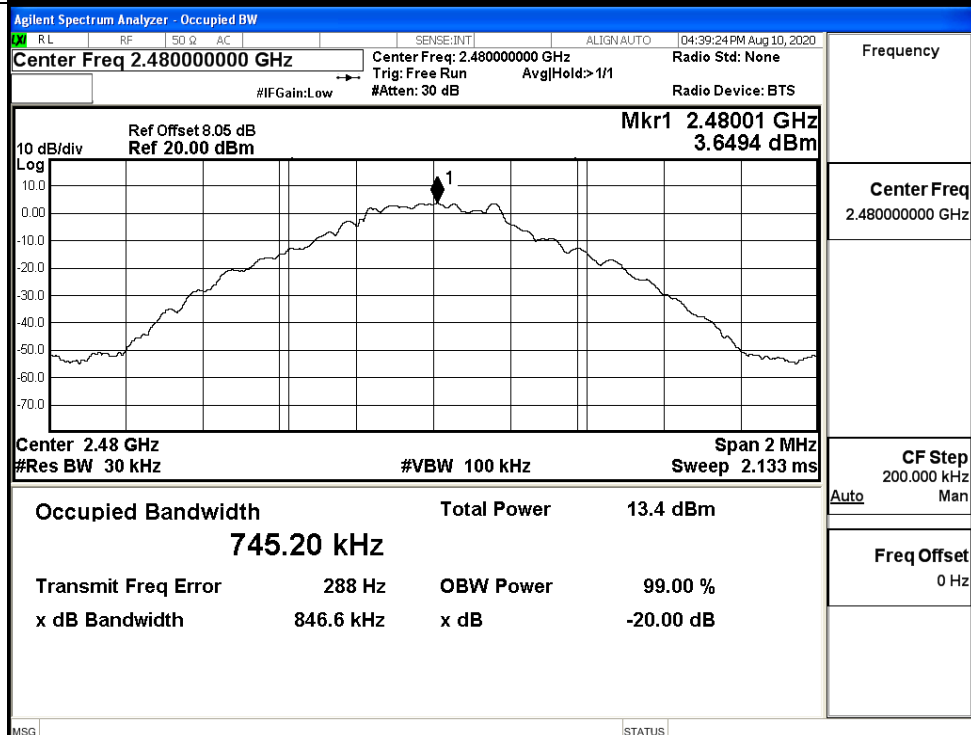
Test Graphs

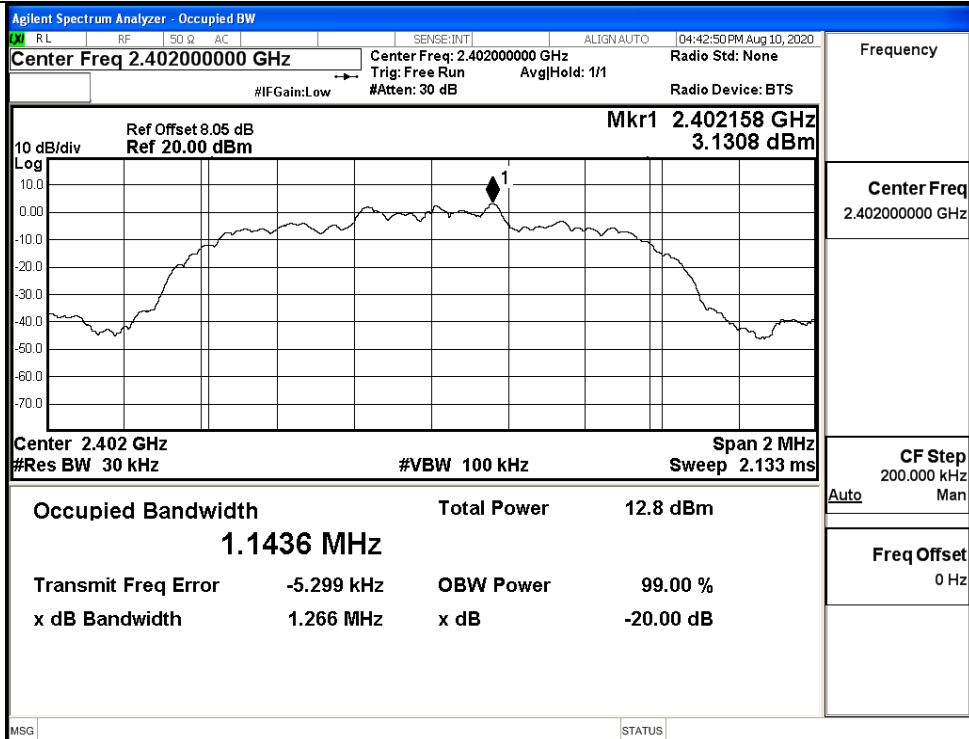
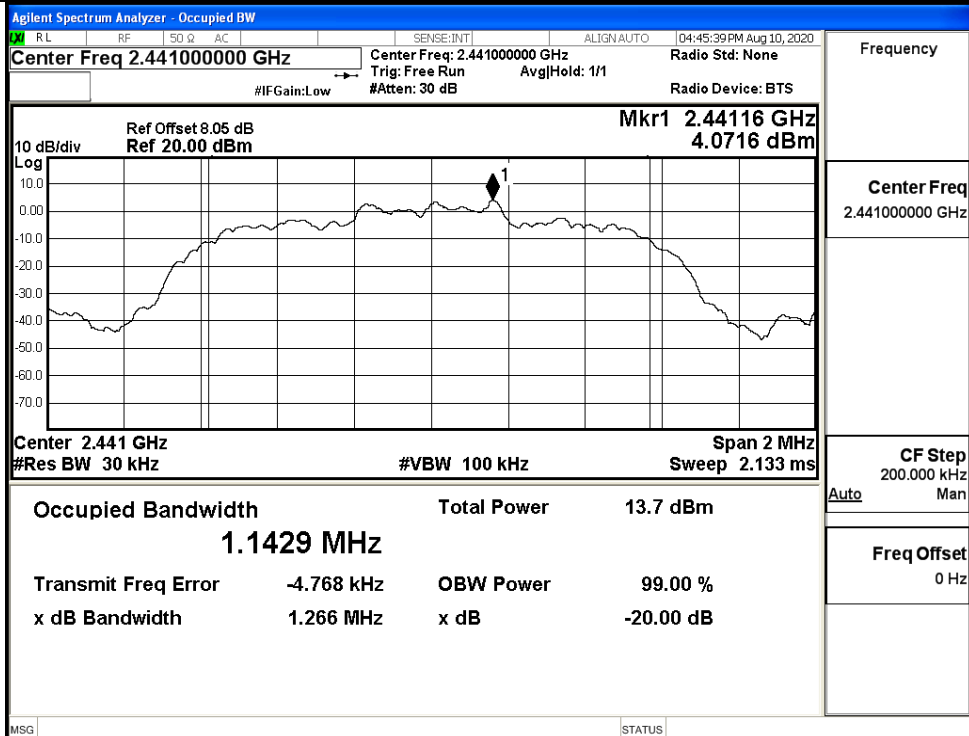


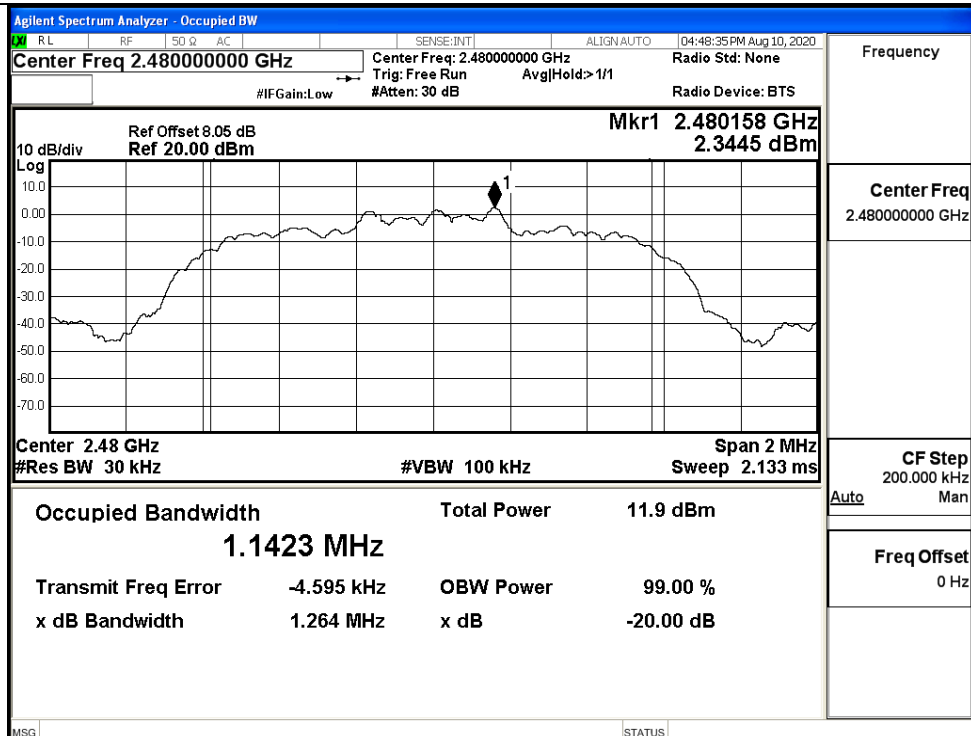
GFSK/MCH



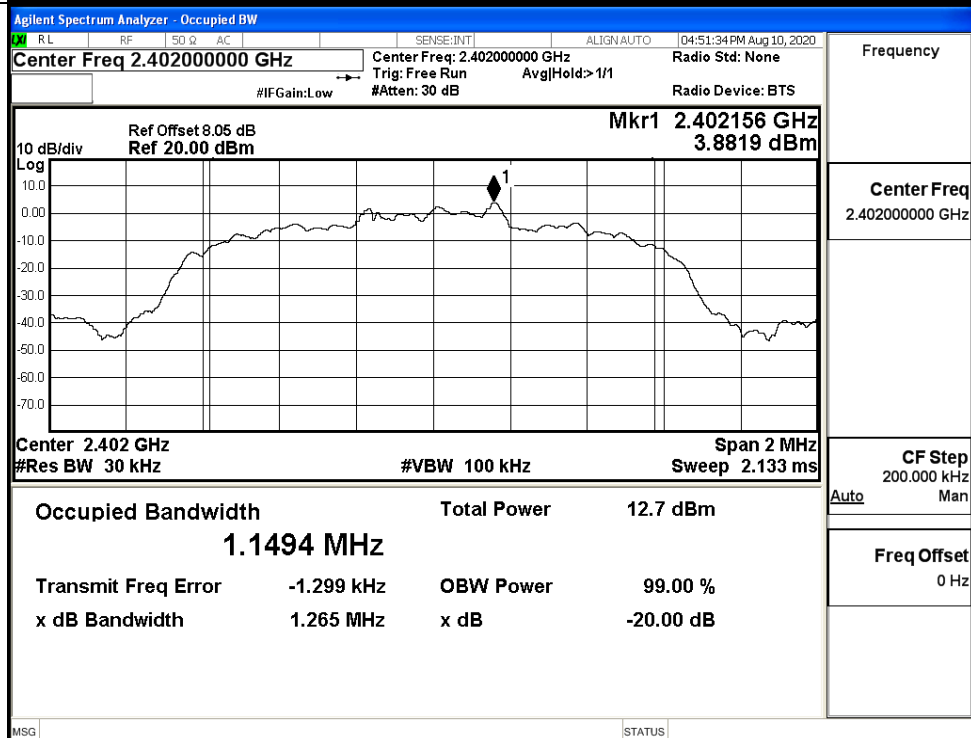
GFSK/HCH



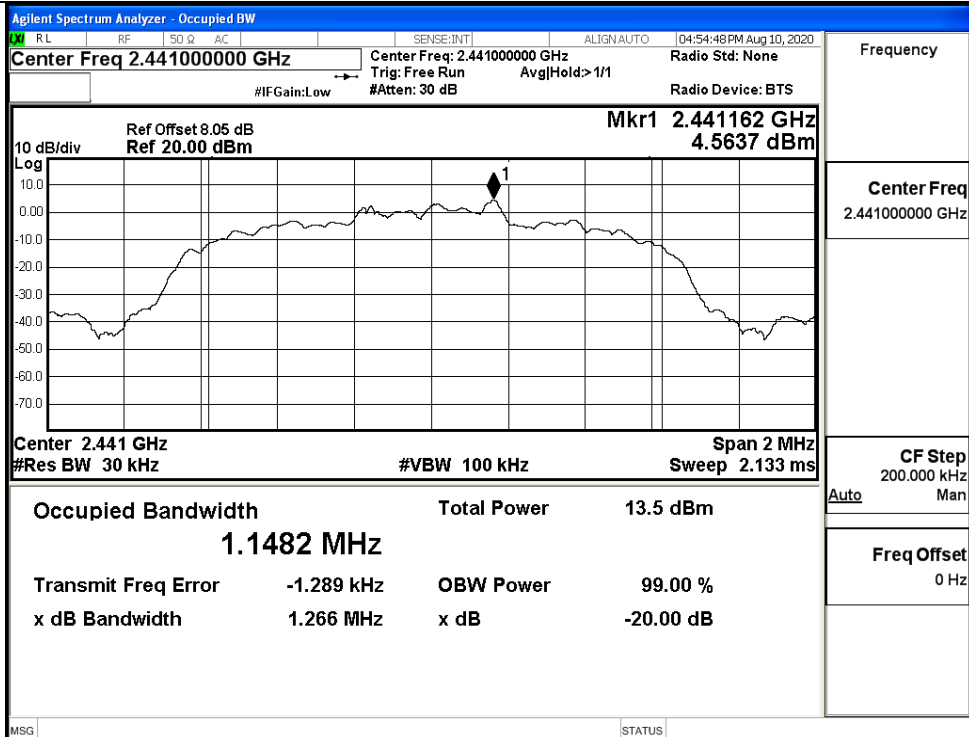
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

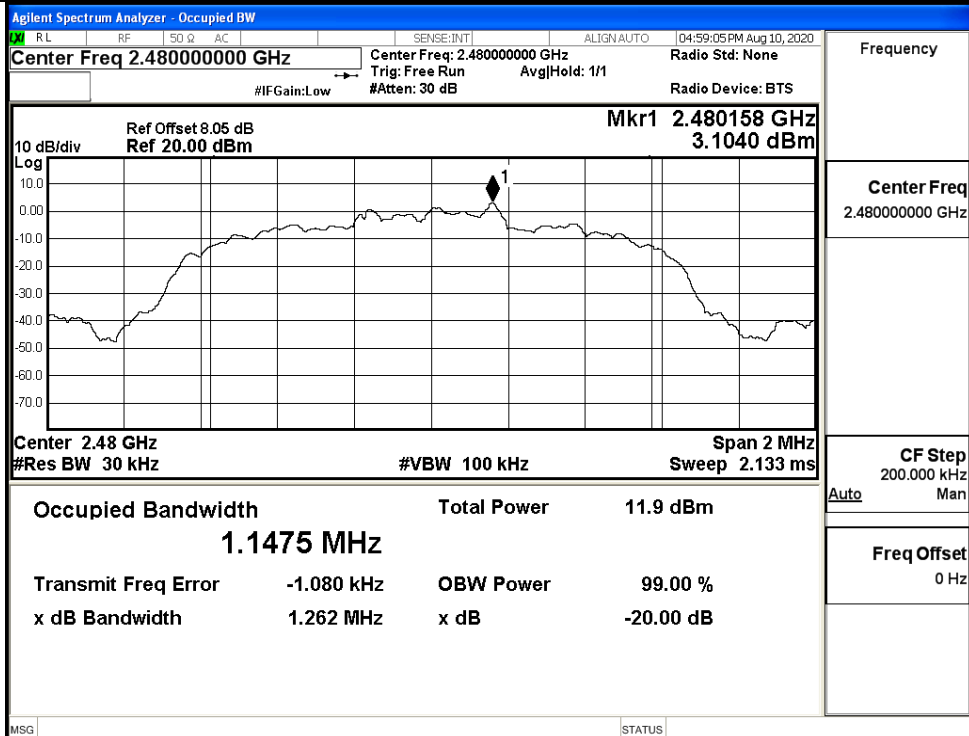
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

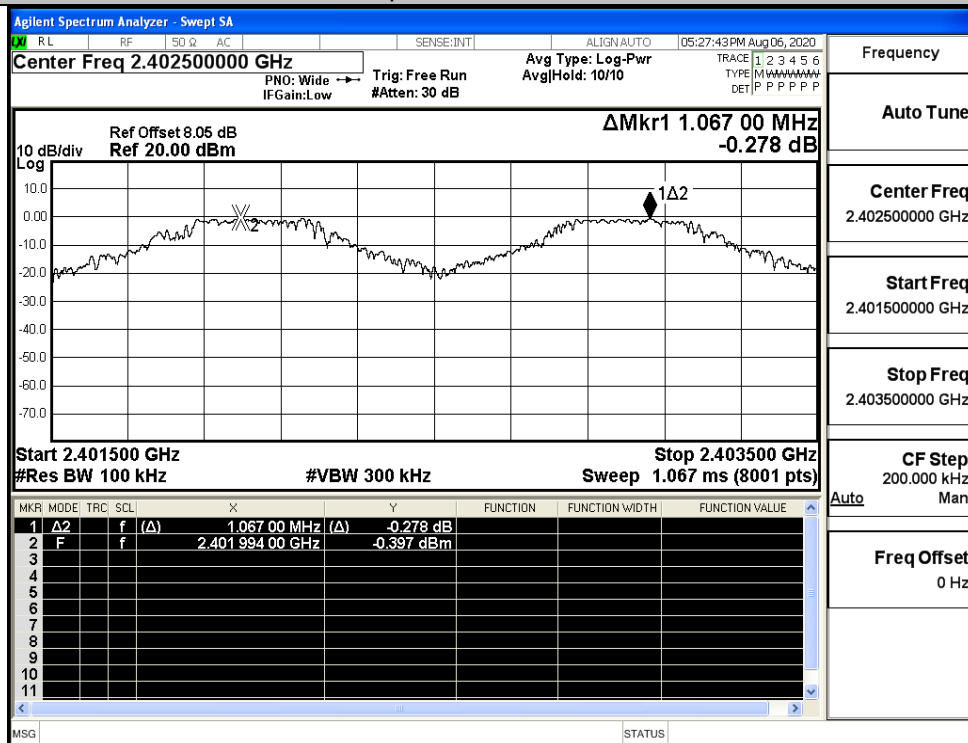


A.3 Carrier Frequency Separation

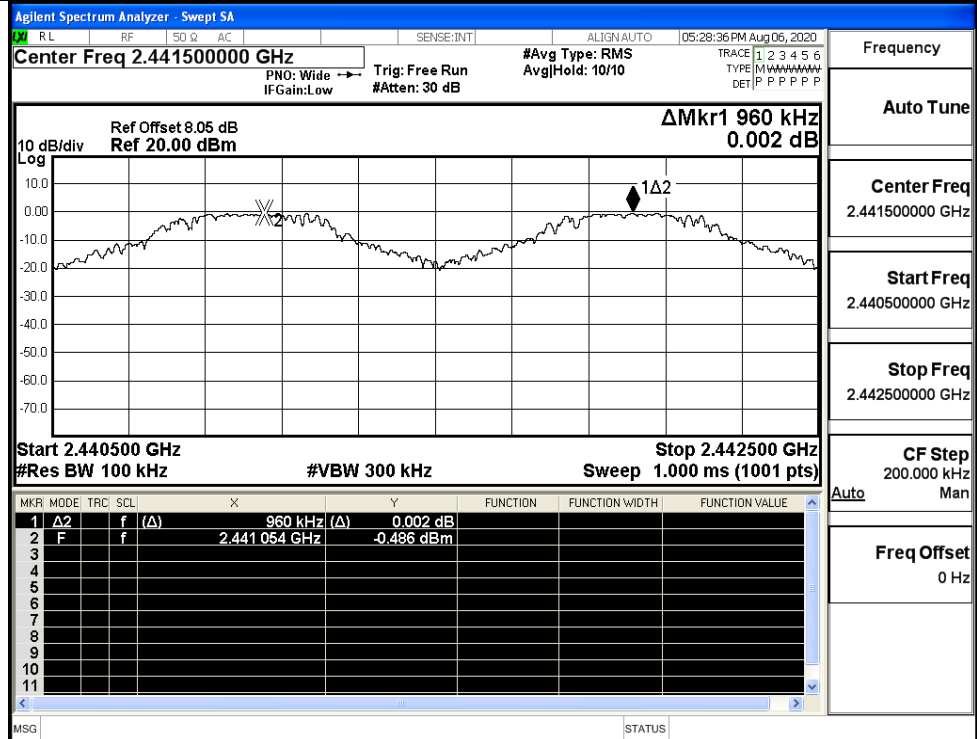
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.067	0.570	PASS
	MCH	0.960	0.570	PASS
	HCH	0.924	0.570	PASS
$\pi/4$ DQPSK	LCH	1.040	0.844	PASS
	MCH	1.136	0.844	PASS
	HCH	1.188	0.844	PASS
8DPSK	LCH	1.068	0.844	PASS
	MCH	1.046	0.844	PASS
	HCH	0.918	0.844	PASS

Test Graphs

GFSK/LCH



GFSK/MCH



Frequency

Auto Tune

Center Freq

2.441500000 GHz

Start Freq

2.440500000 GHz

Stop Freq

2.442500000 GHz

CF Step

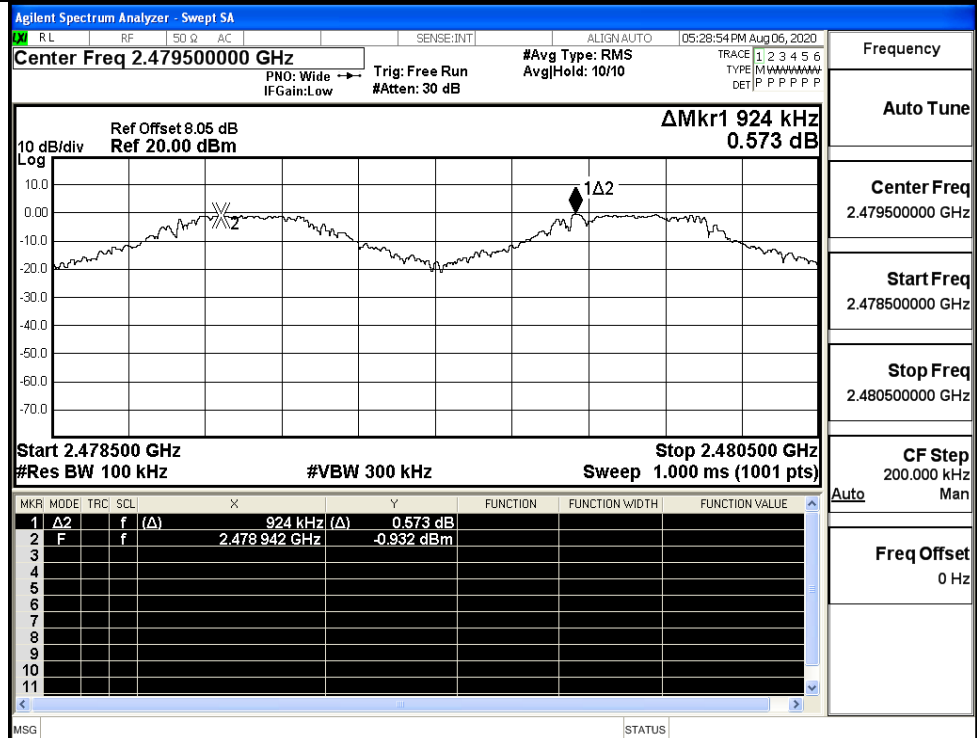
200.000 kHz

Man

Freq Offset

0 Hz

GFSK/HCH



Frequency

Auto Tune

Center Freq

2.479500000 GHz

Start Freq

2.478500000 GHz

Stop Freq

2.480500000 GHz

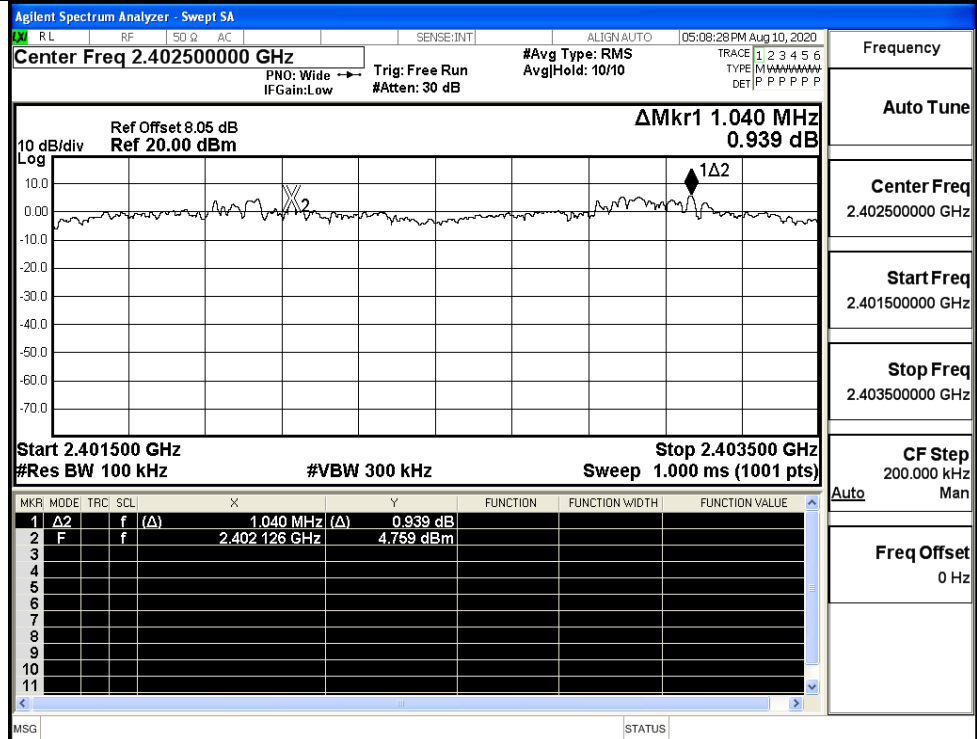
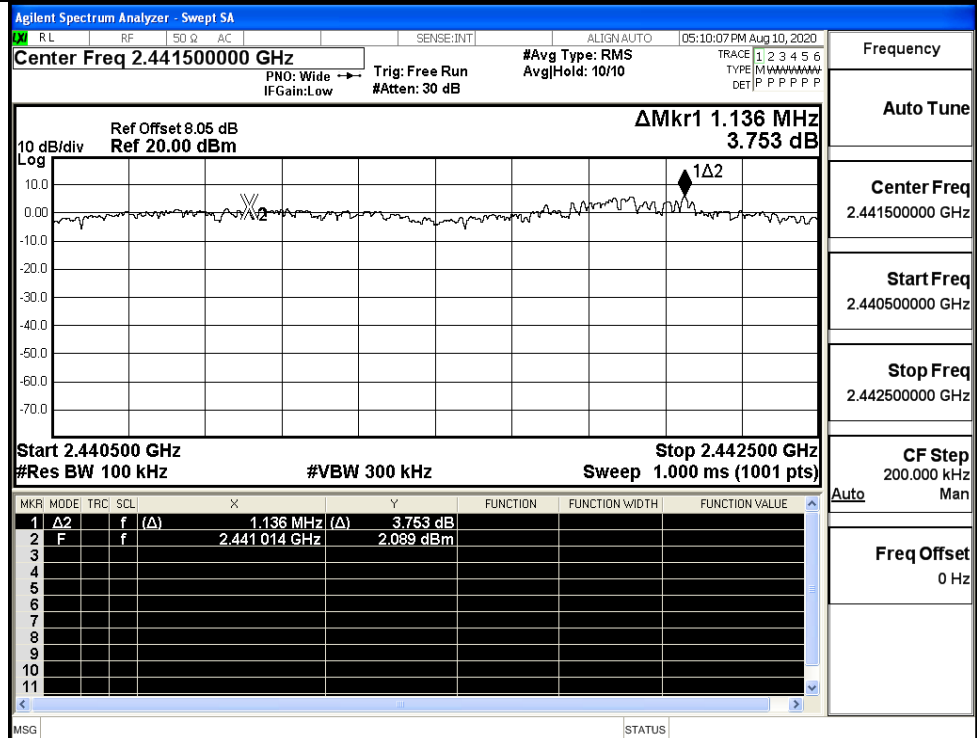
CF Step

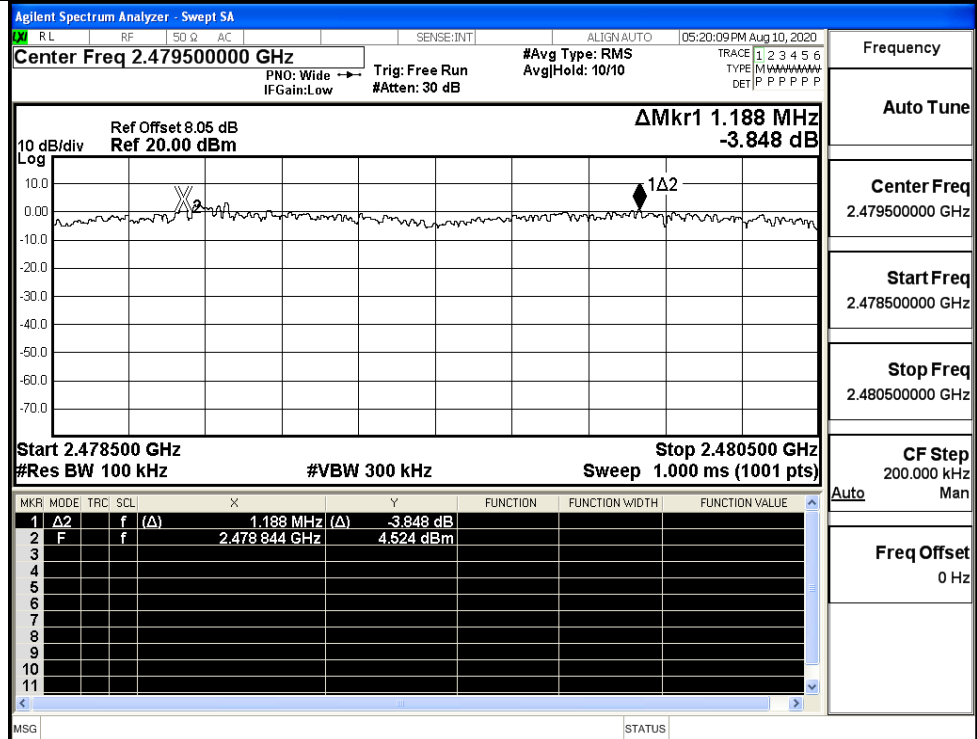
200.000 kHz

Man

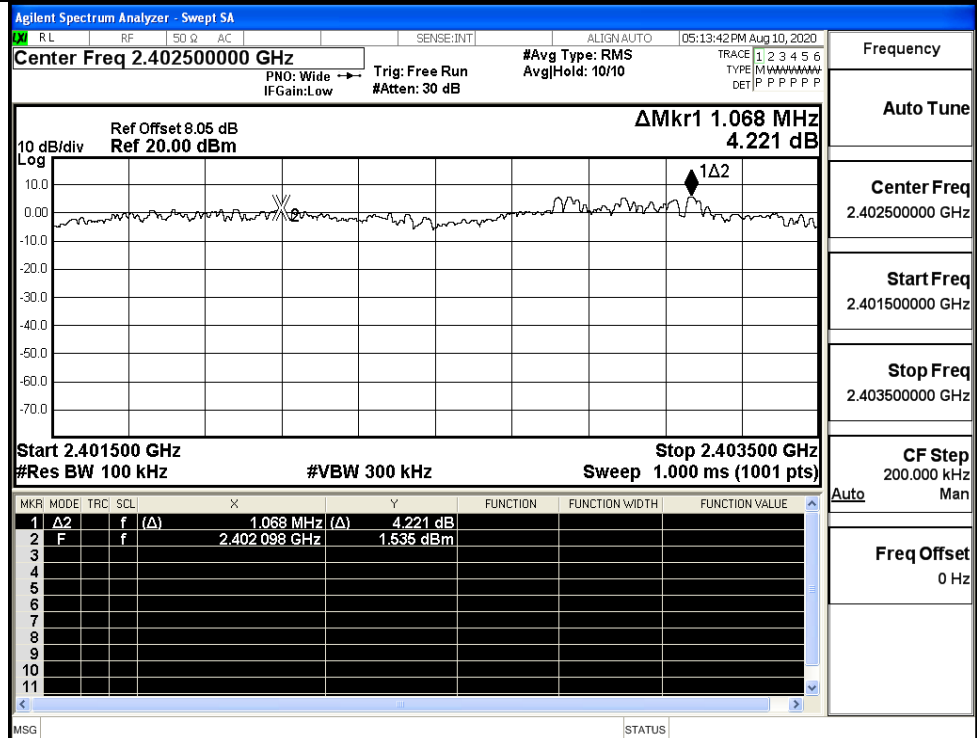
Freq Offset

0 Hz

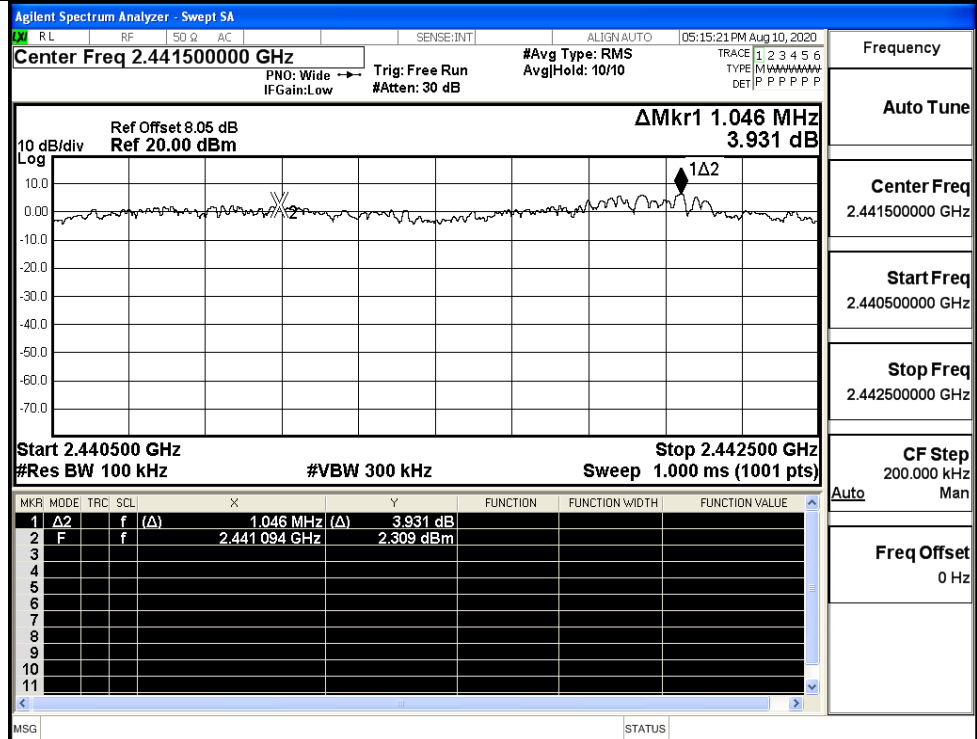
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

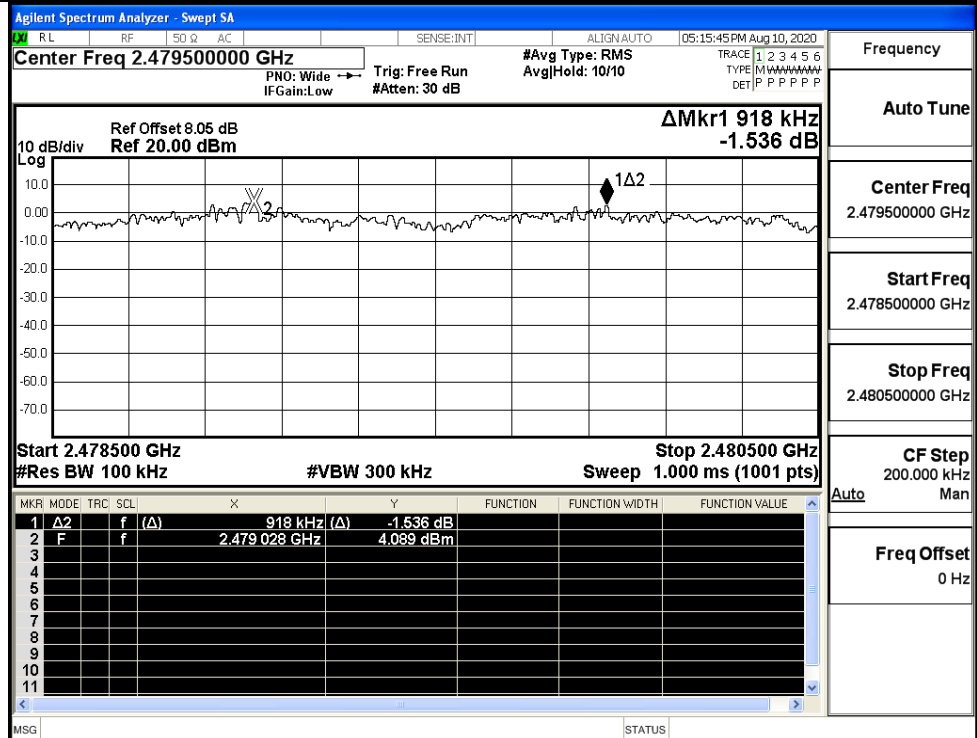
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

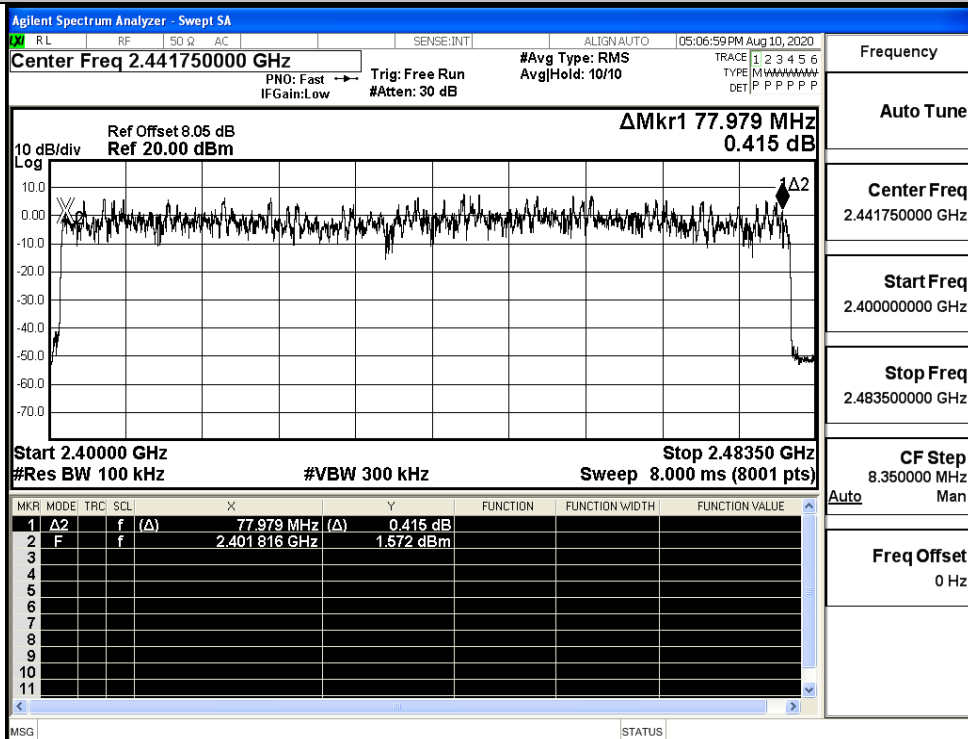
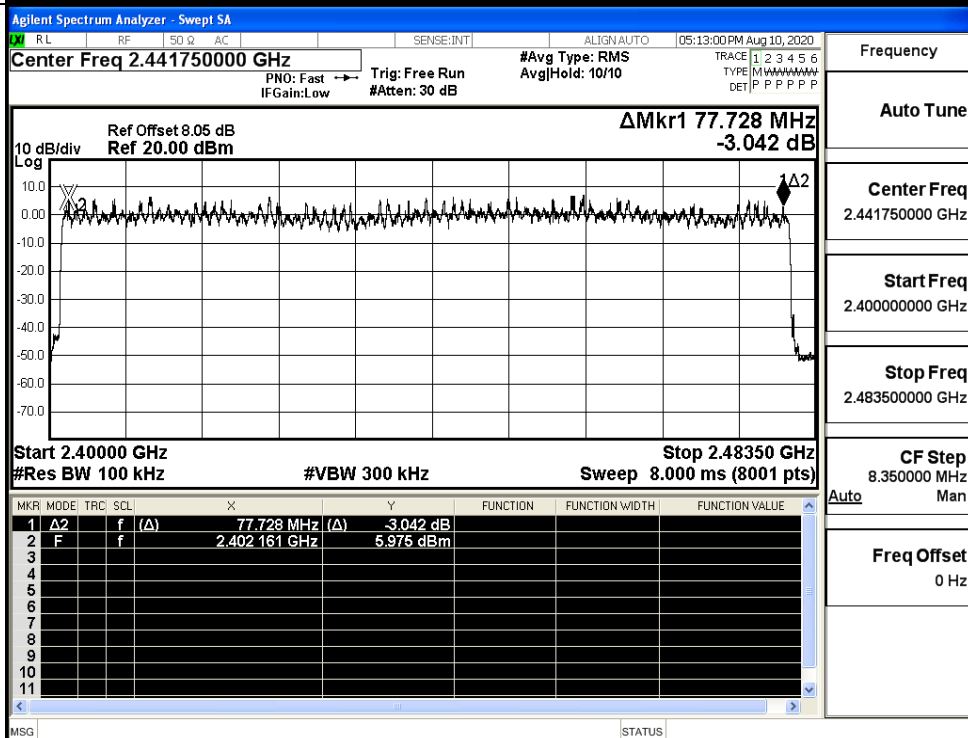


A.4 Hopping Channel Number

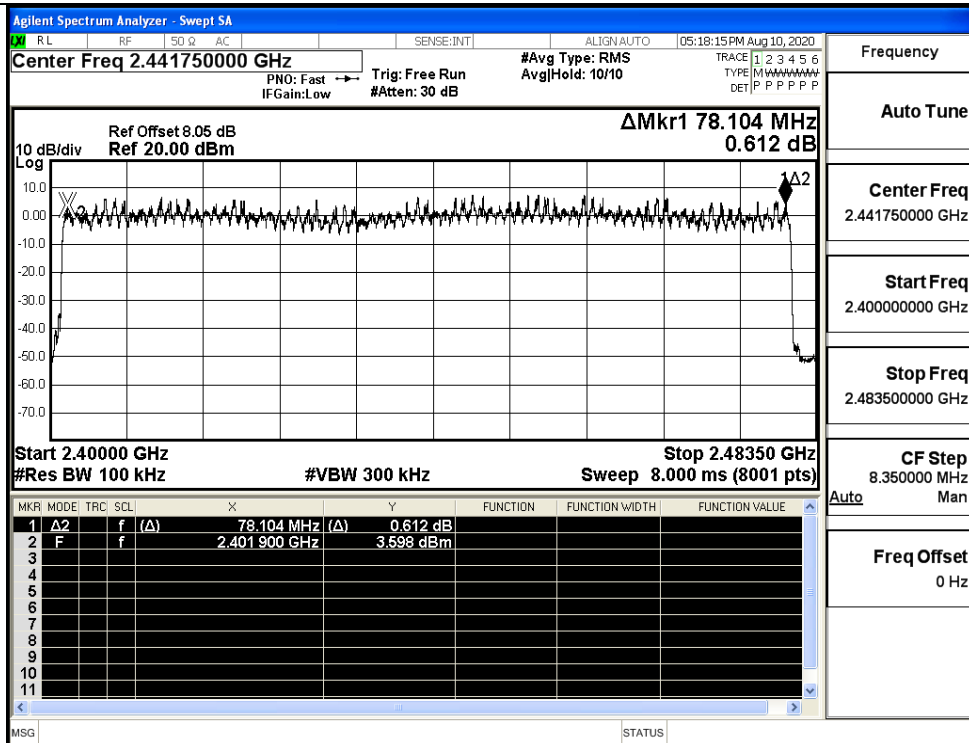
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Test Graphs

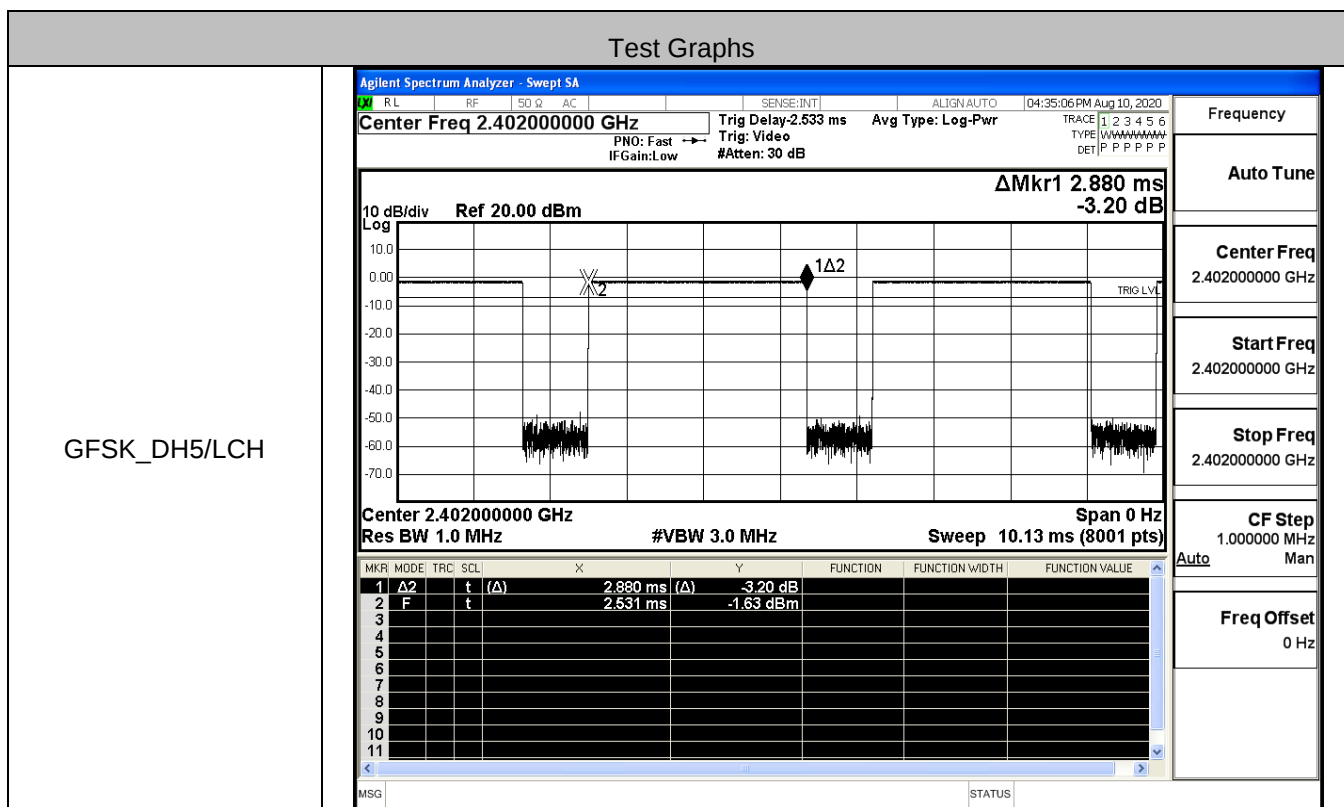
GFSK/Hop

 $\pi/4$ DQPSK/Hop

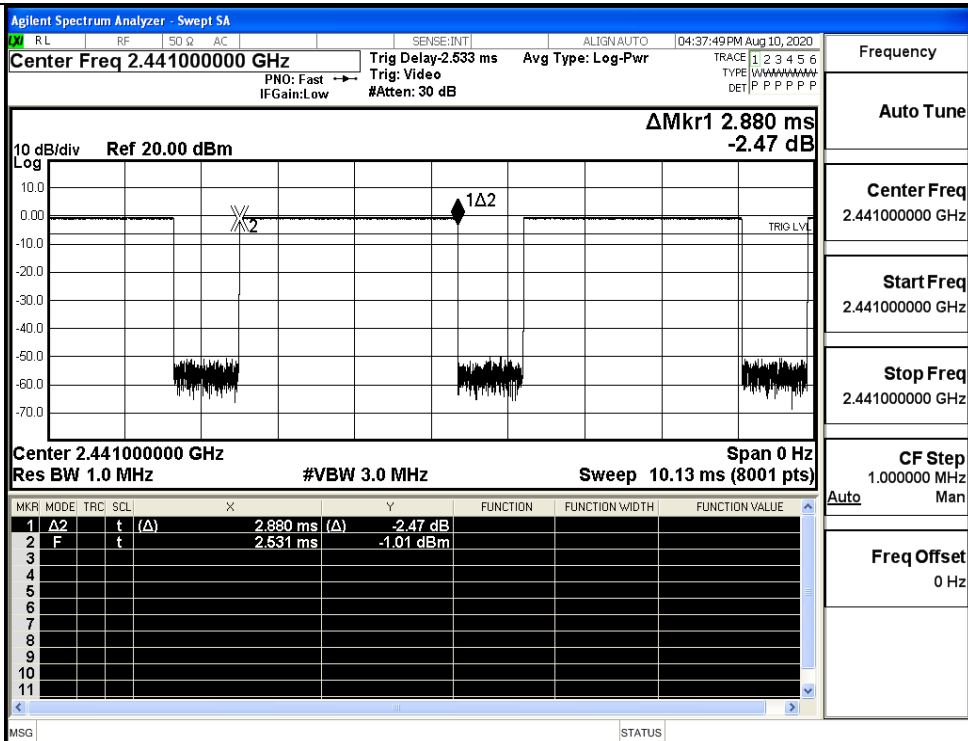
8DPSK/Hop



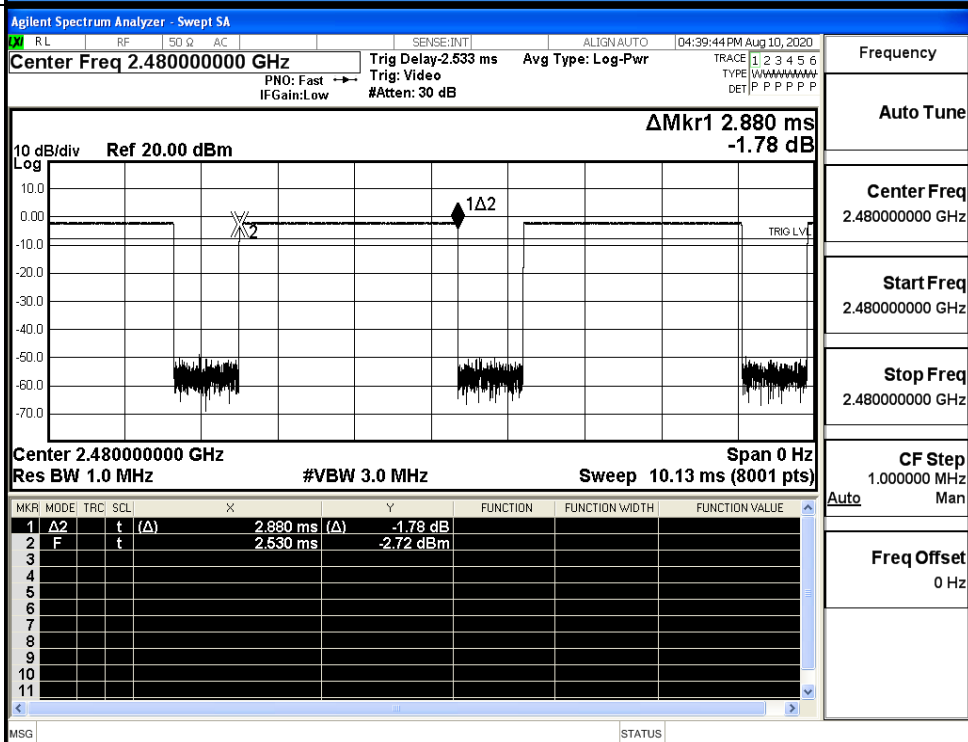
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.88	106.7	0.308	0.4	PASS
	3DH5	MCH	2.88	106.7	0.308	0.4	PASS
	3DH5	HCH	2.88	106.7	0.308	0.4	PASS



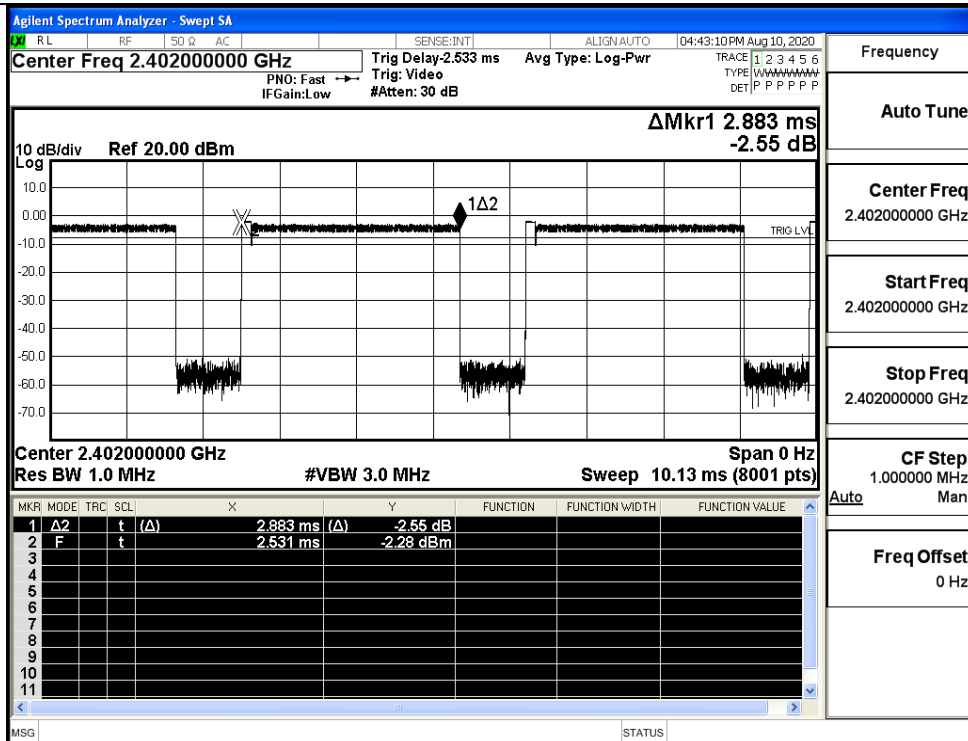
GFSK_DH5/MCH



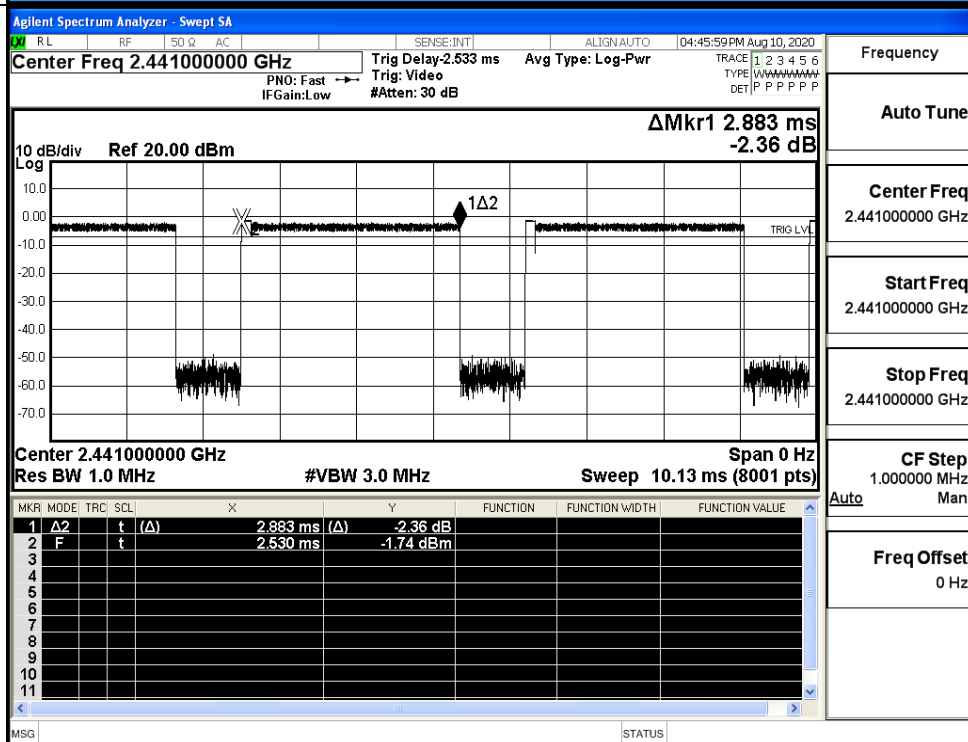
GFSK_DH5/HCH



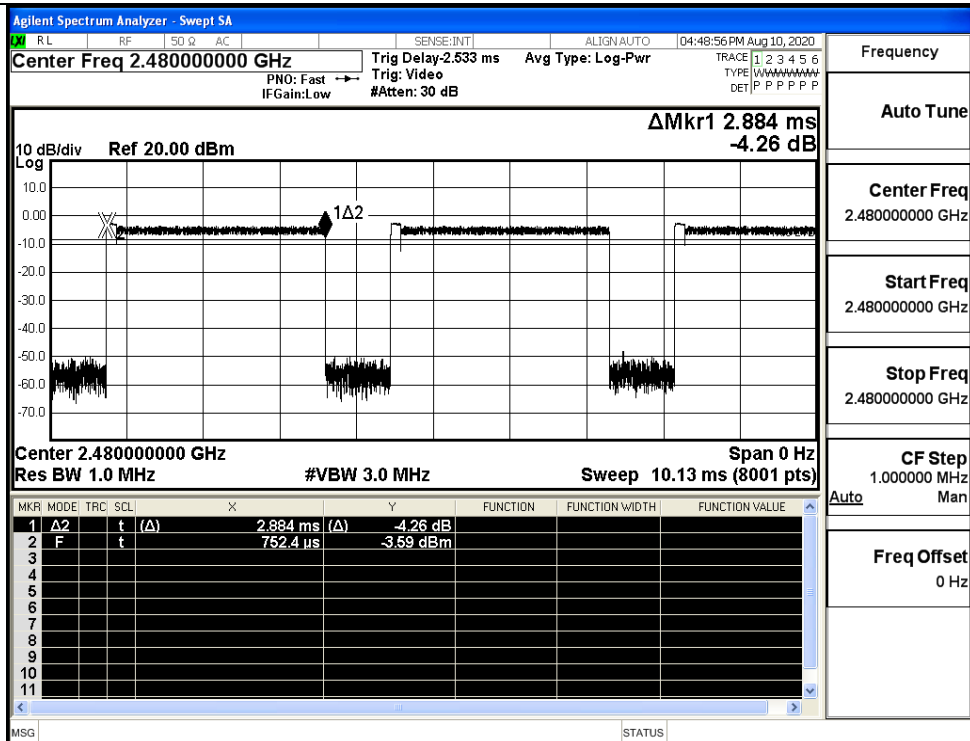
$\pi/4$ DQPSK
_2DH5/LCH



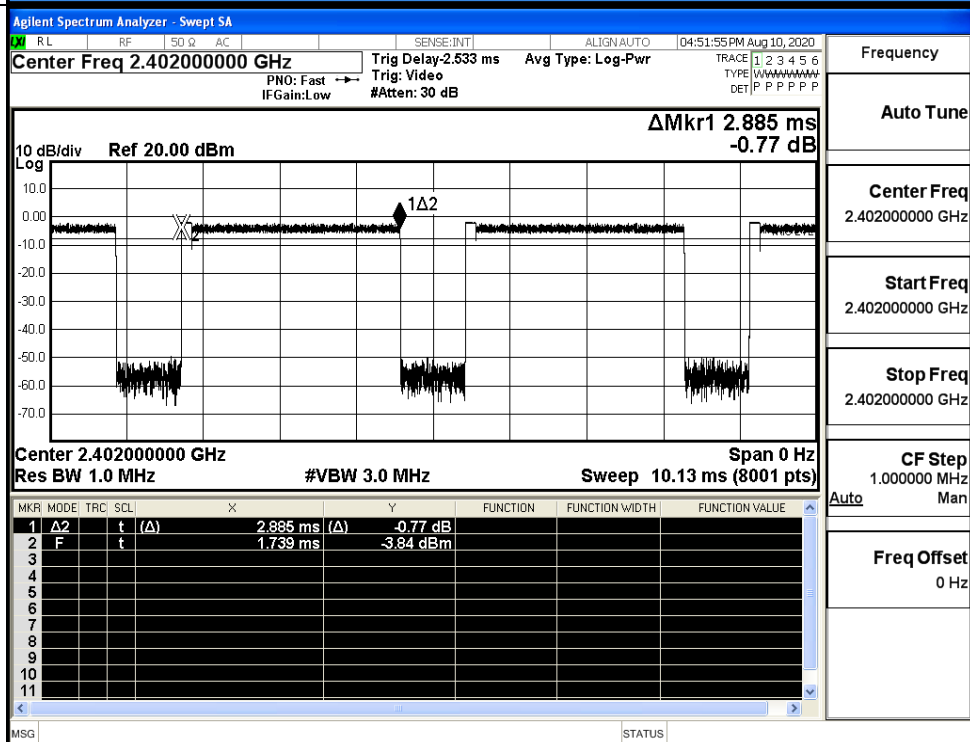
$\pi/4$ DQPSK
_2DH5/MCH



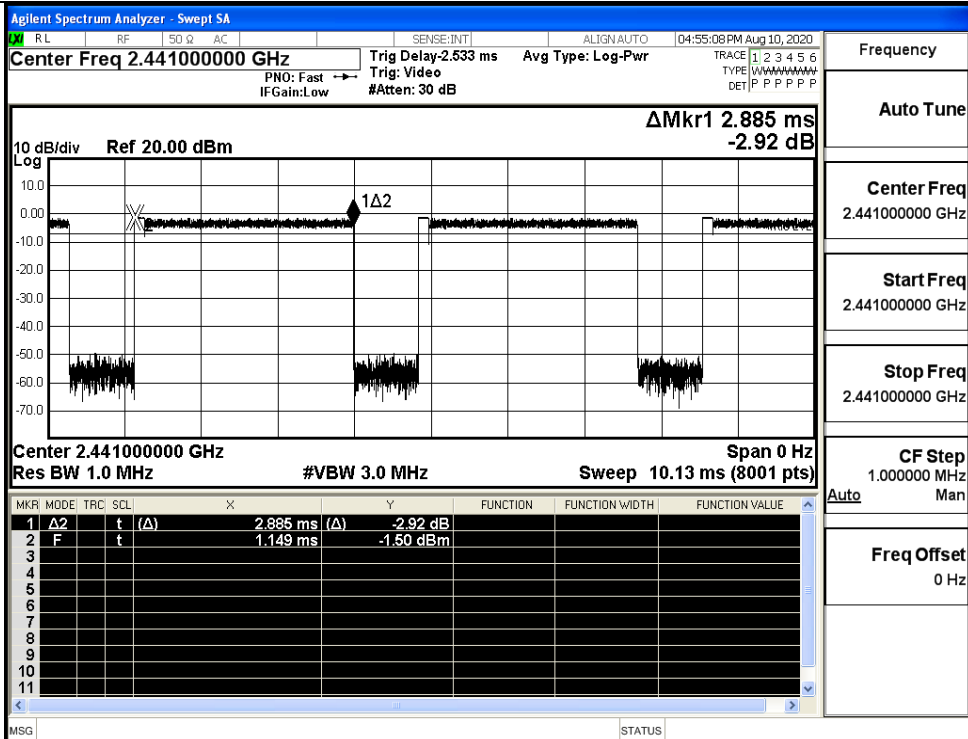
$\pi/4$ DQPSK
_2DH5/HCH



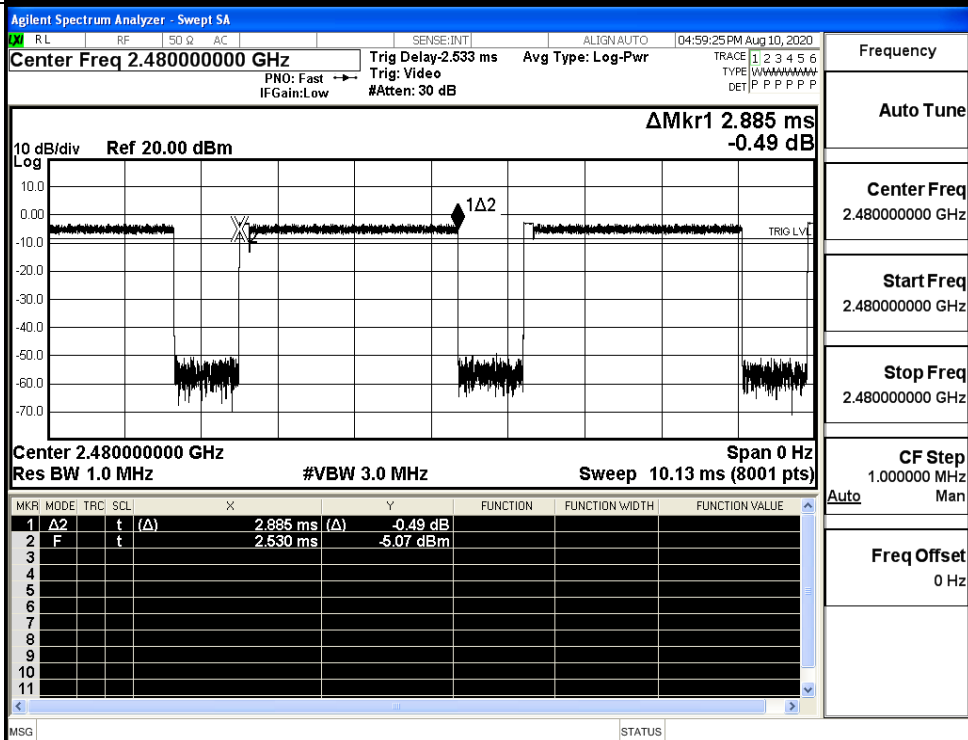
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



8DPSK_3DH5/HCH

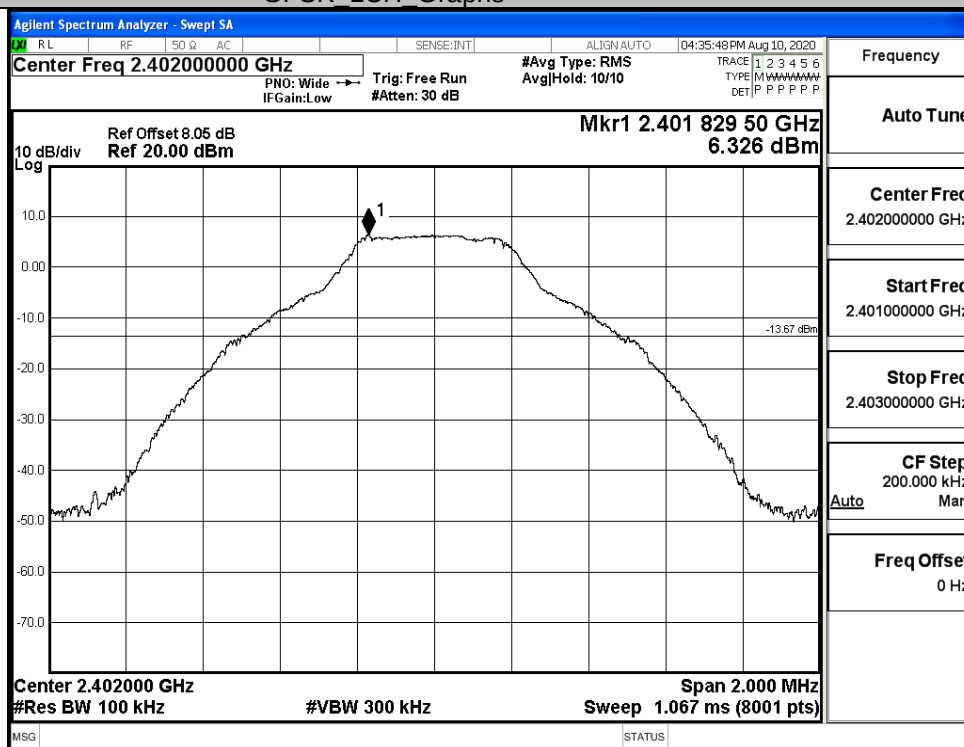


A.6 RF Conducted Spurious Emissions

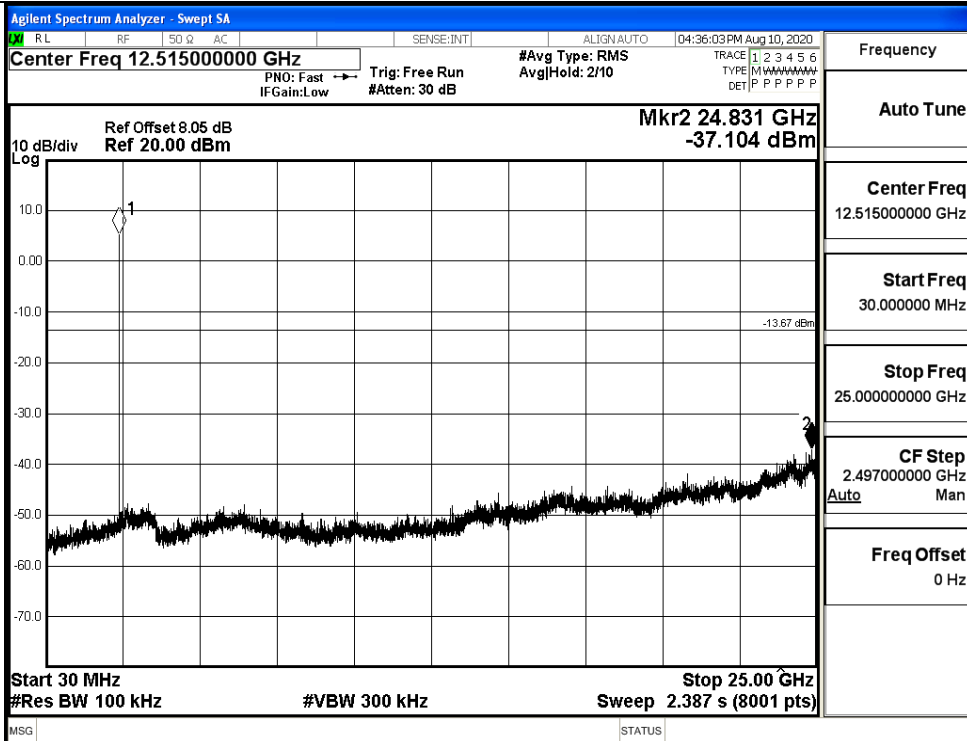
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	6.326	-37.104	-13.674	PASS
	MCH	7.110	-37.724	-12.890	PASS
	HCH	5.707	-37.863	-14.293	PASS
$\pi/4$ DQPSK	LCH	5.734	-36.568	-14.266	PASS
	MCH	6.672	-38.232	-13.328	PASS
	HCH	5.217	-37.875	-14.783	PASS
8DPSK	LCH	6.018	-37.474	-13.982	PASS
	MCH	6.751	-37.788	-13.249	PASS
	HCH	4.475	-37.976	-15.525	PASS

GFSK LCH Graphs

Pref

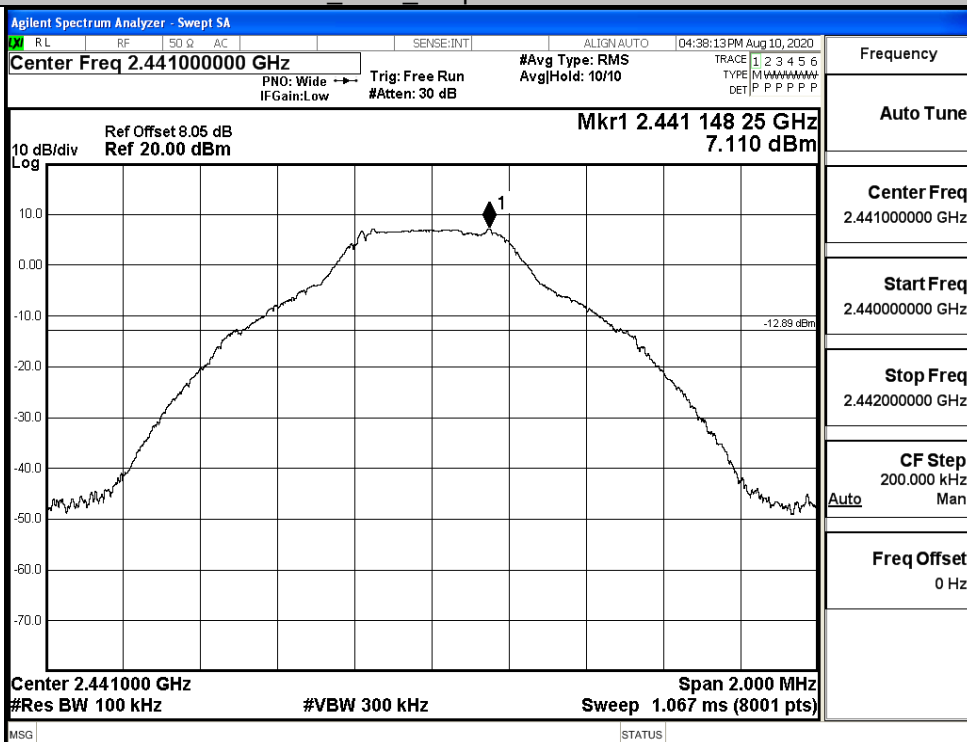


Puw

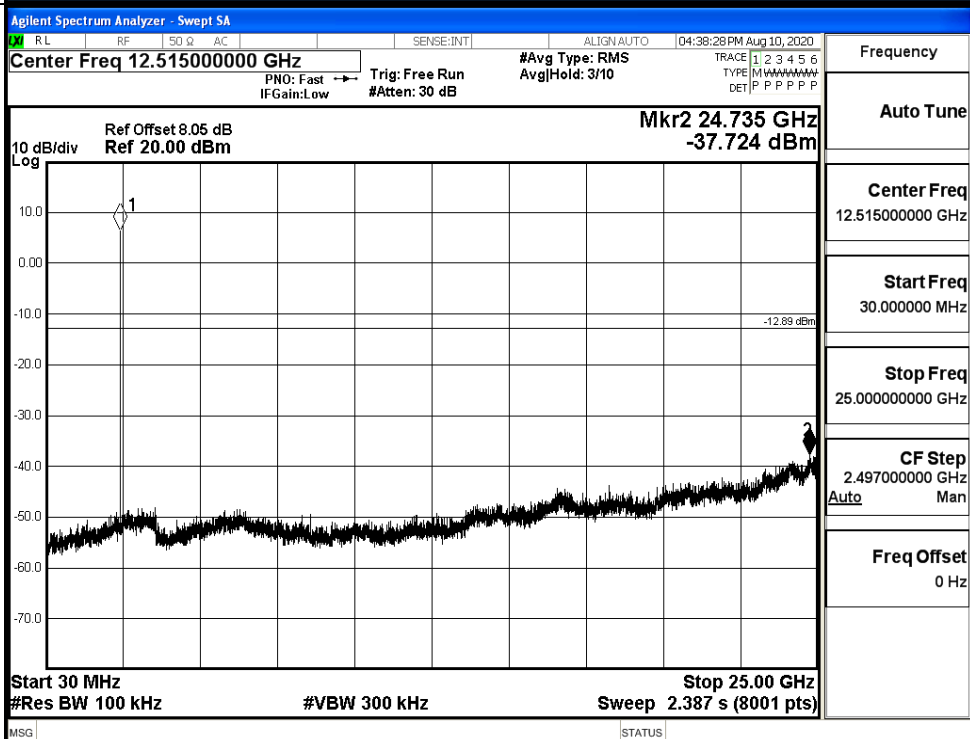


GFSK_MCH_Graphs

Pref

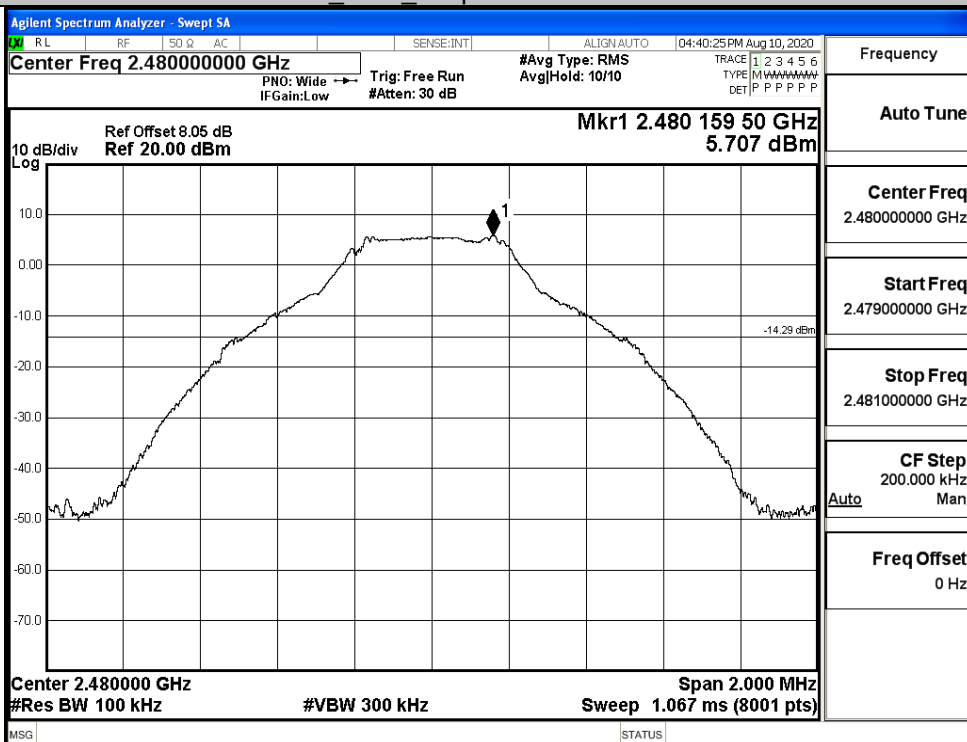


Puw

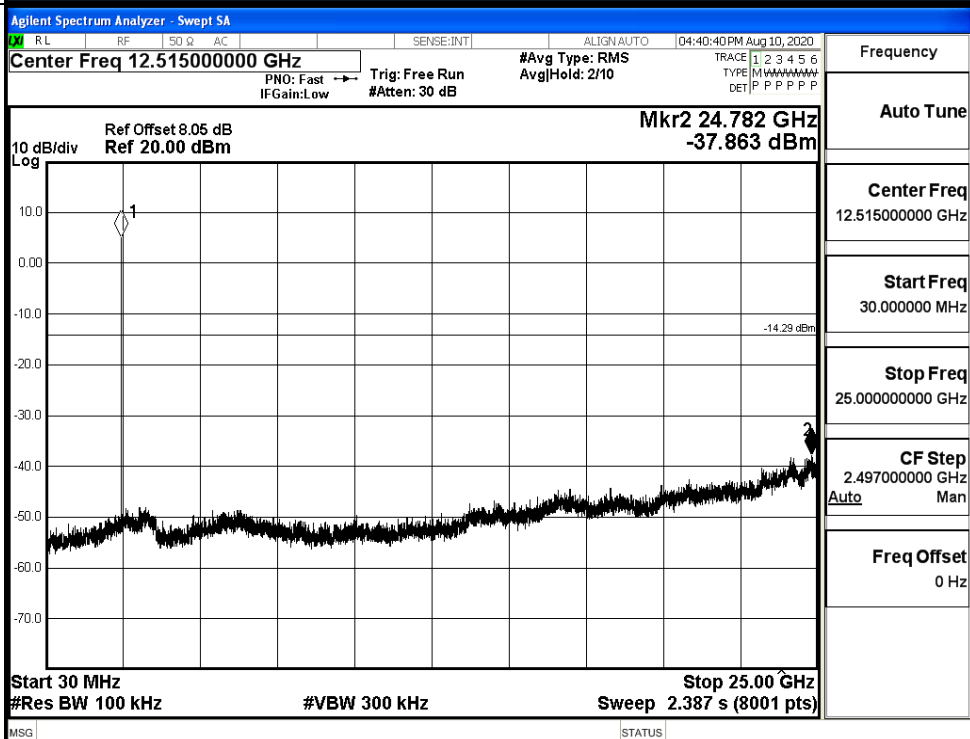


GFSK HCH_Graphs

Pref

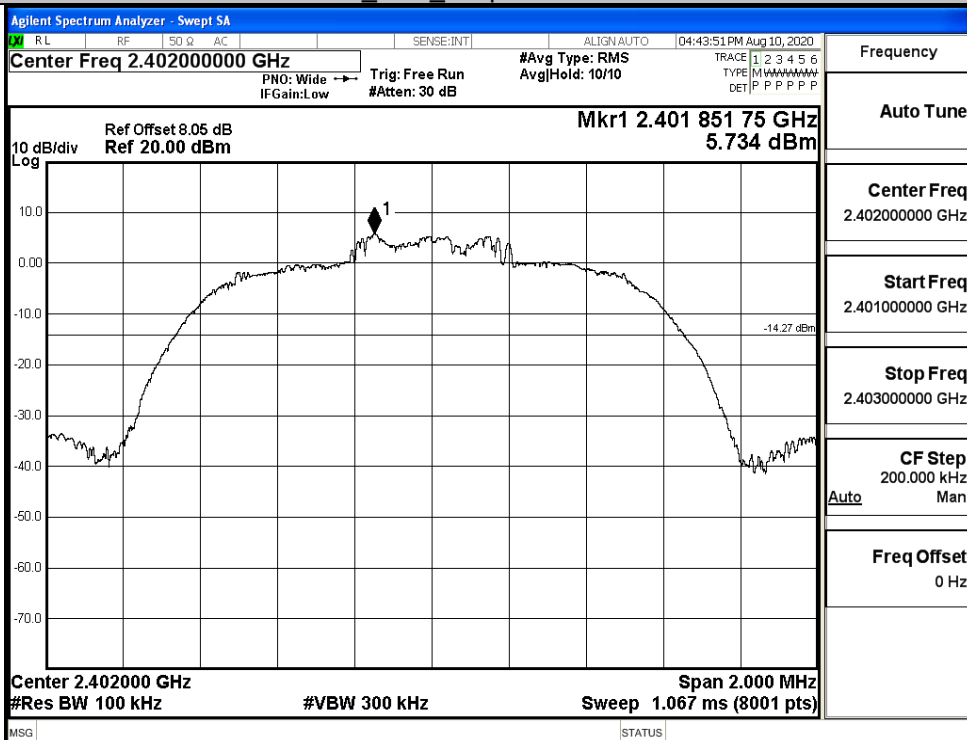


Puw

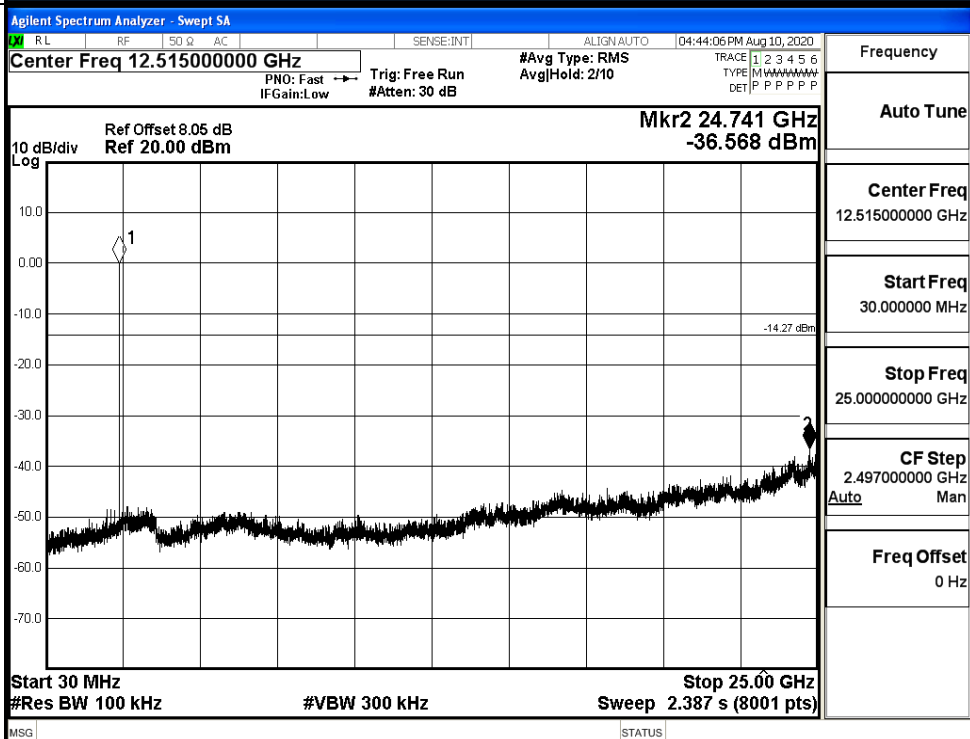


$\pi/4$ DQPSK_LCH_Graphs

Pref

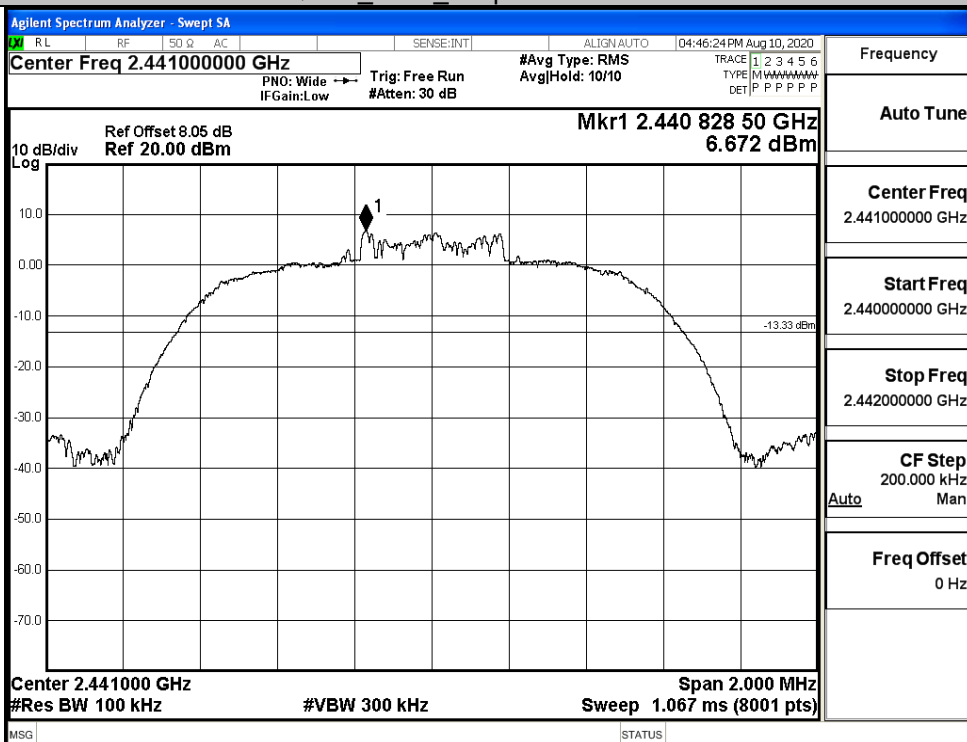


Puw

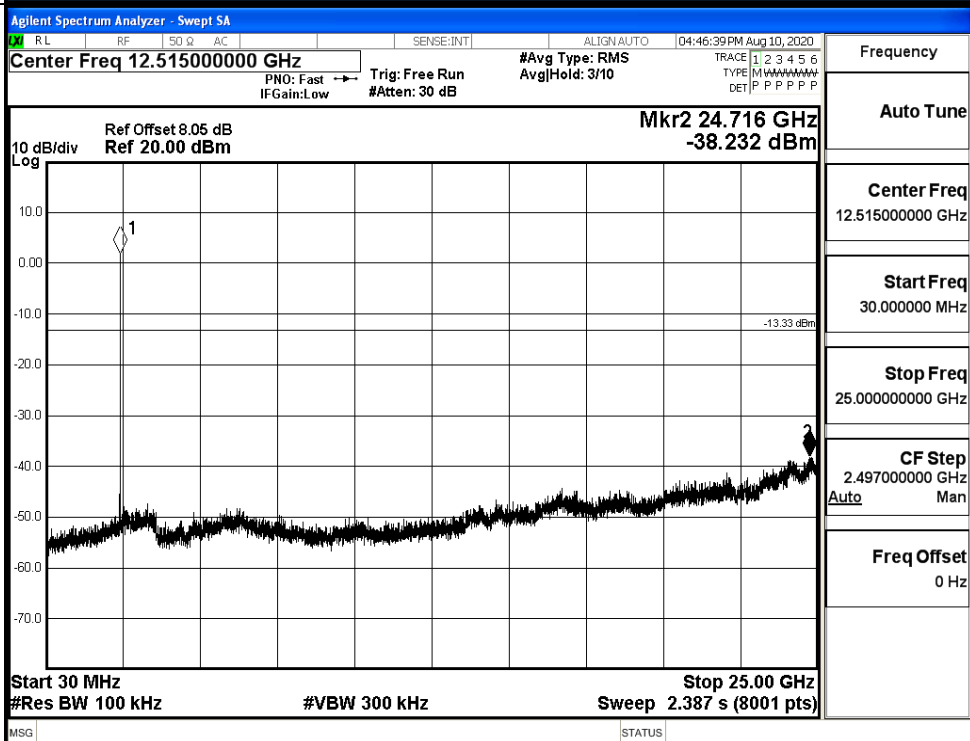


π /4DQPSK_MCH_Graphs

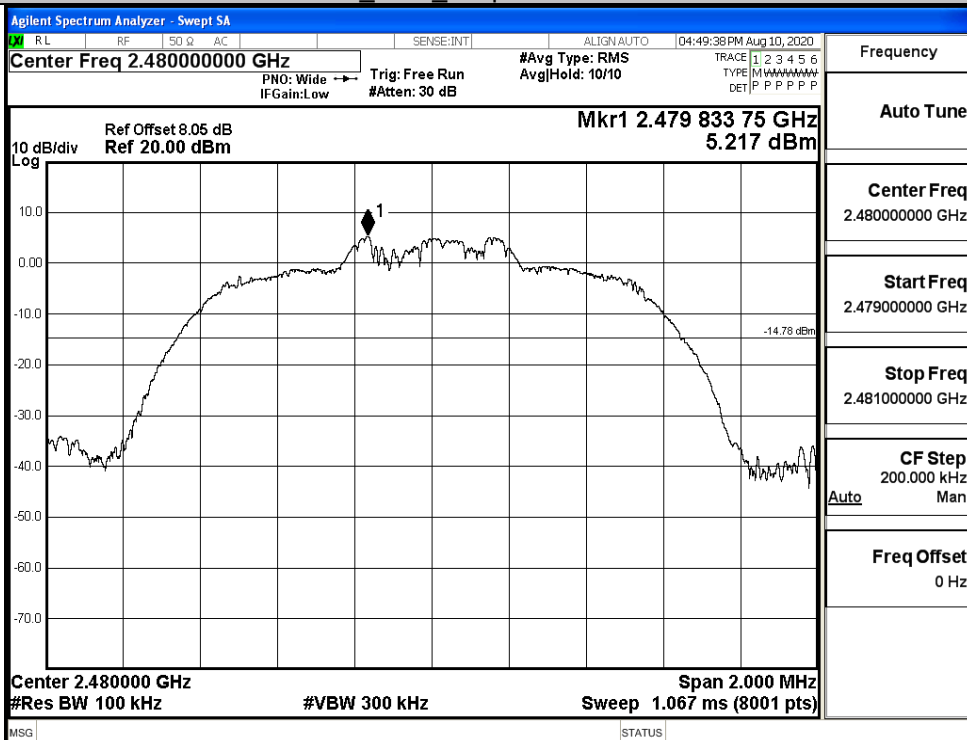
Pref



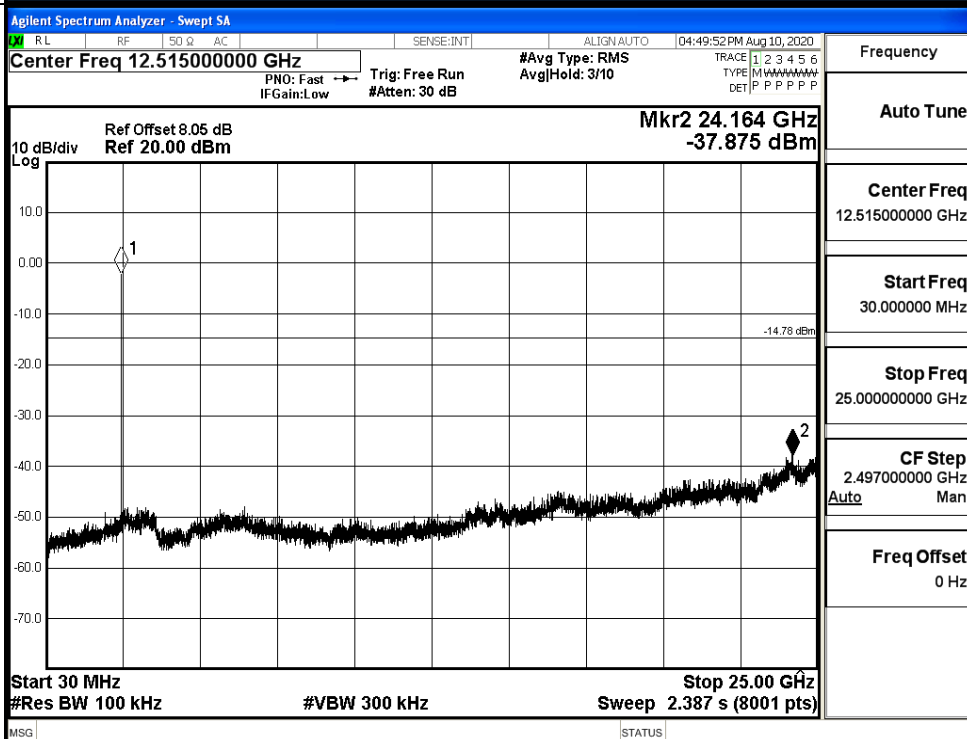
Puw



Pref

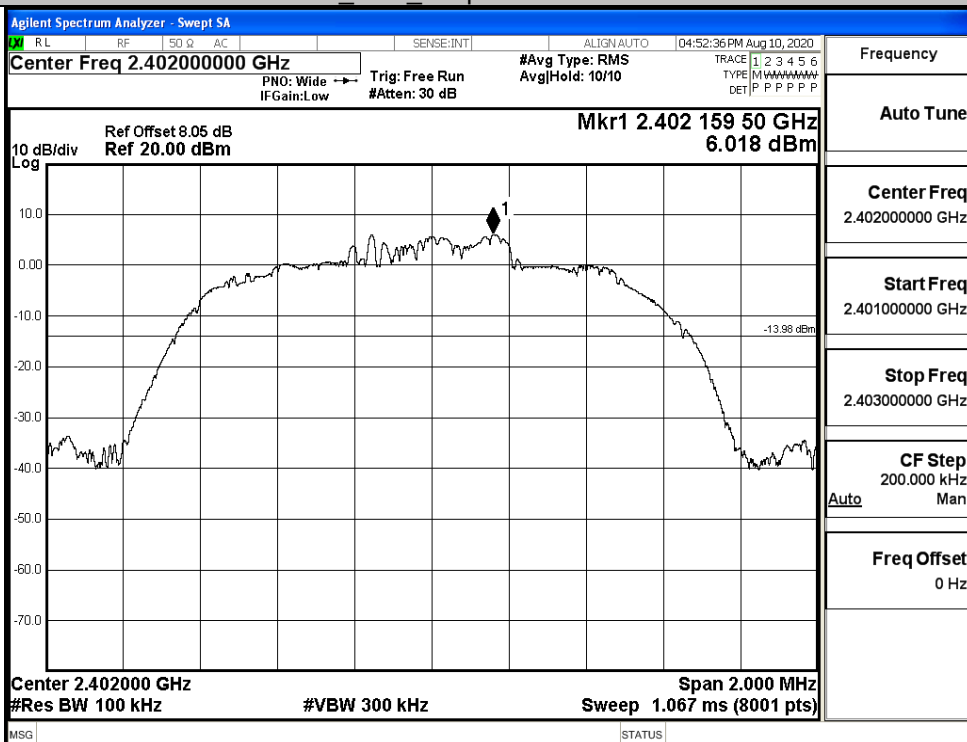


Puw

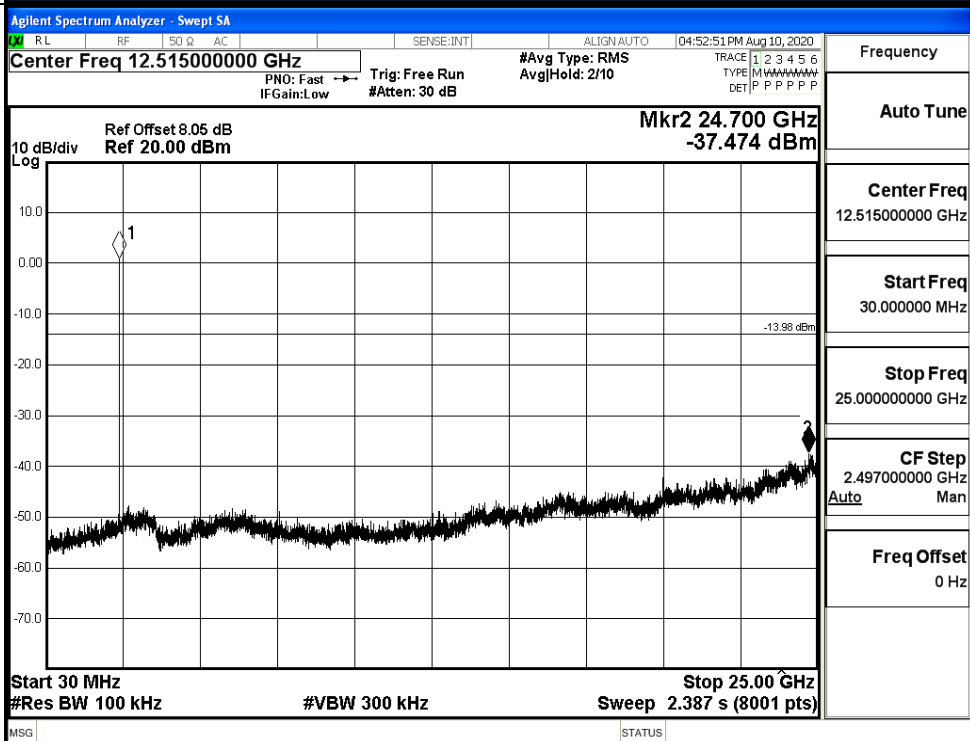


8DPSK_LCH_Graphs

Pref

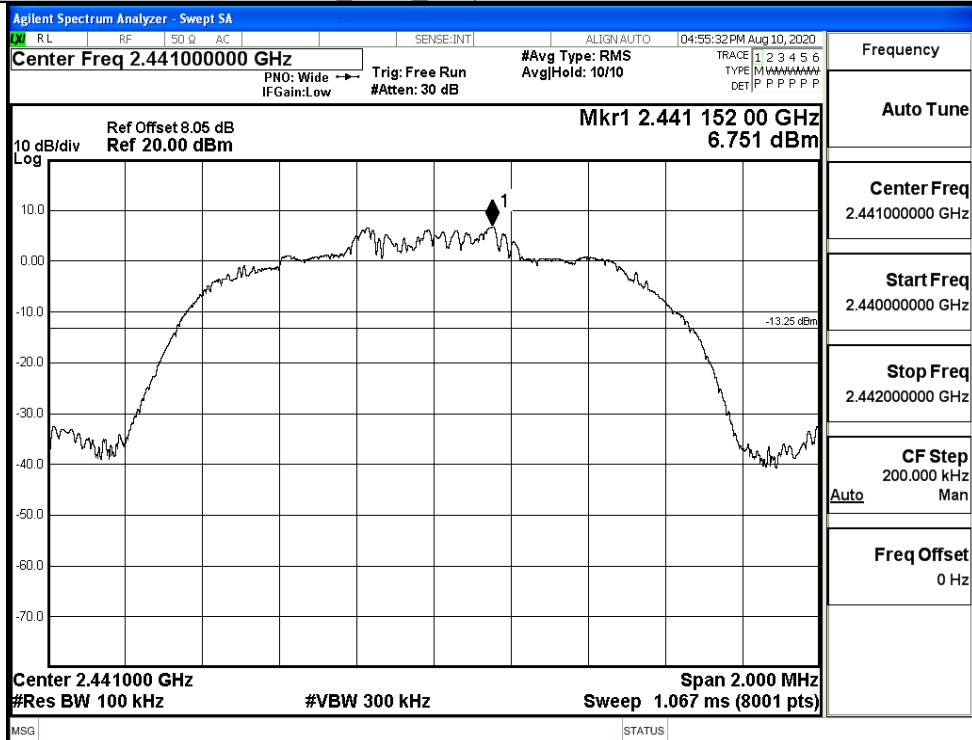


Puw

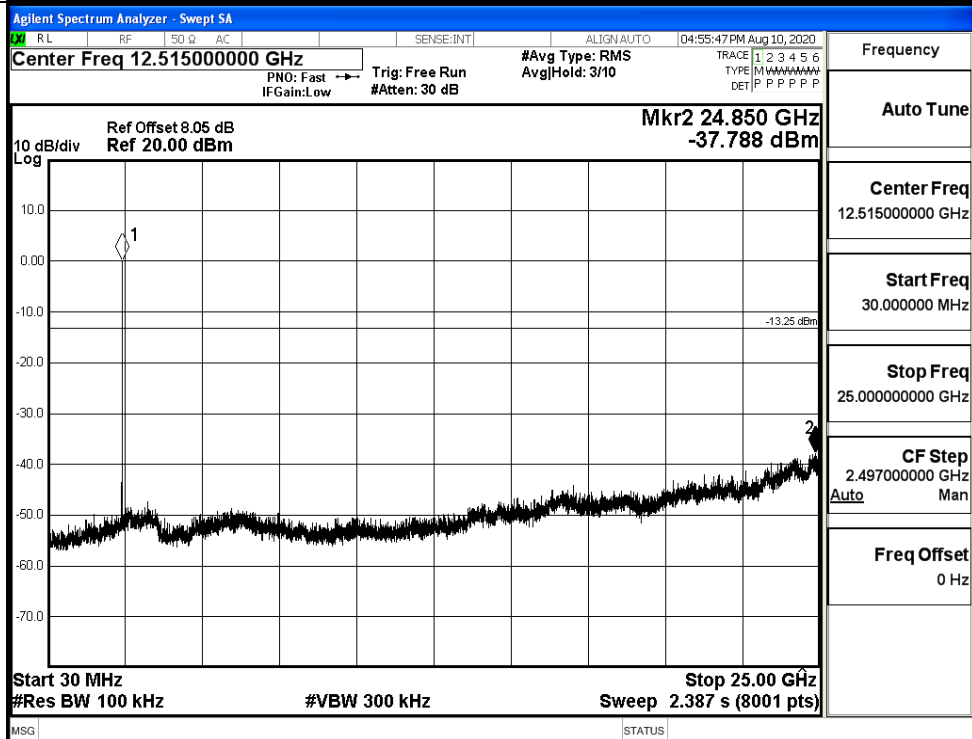


8DPSK_MCH_Graphs

Pref

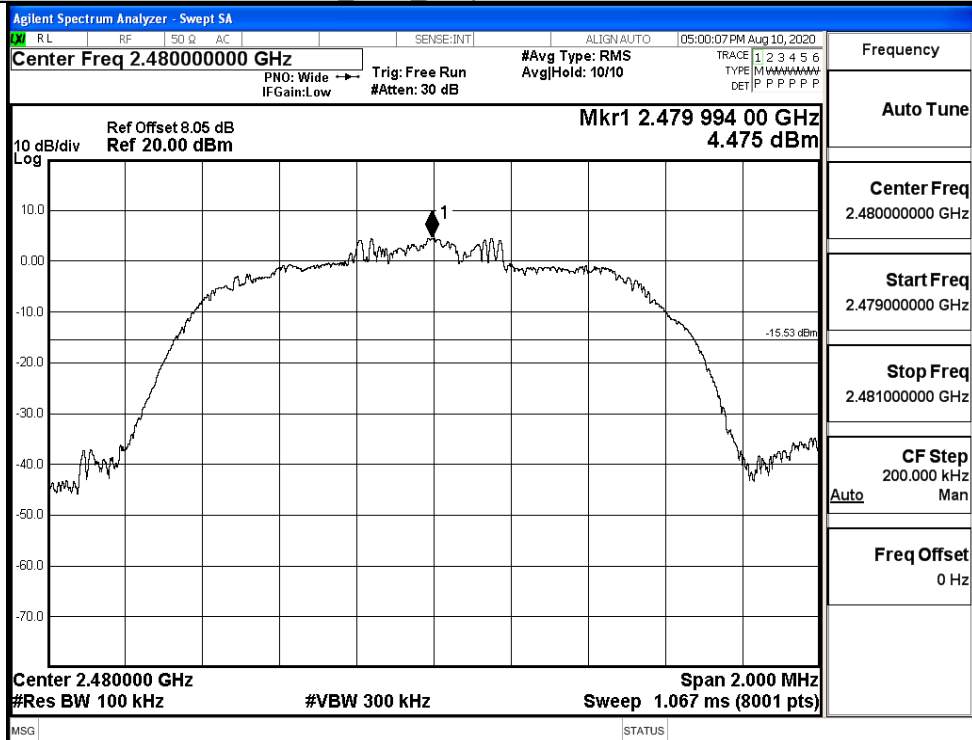


Puw

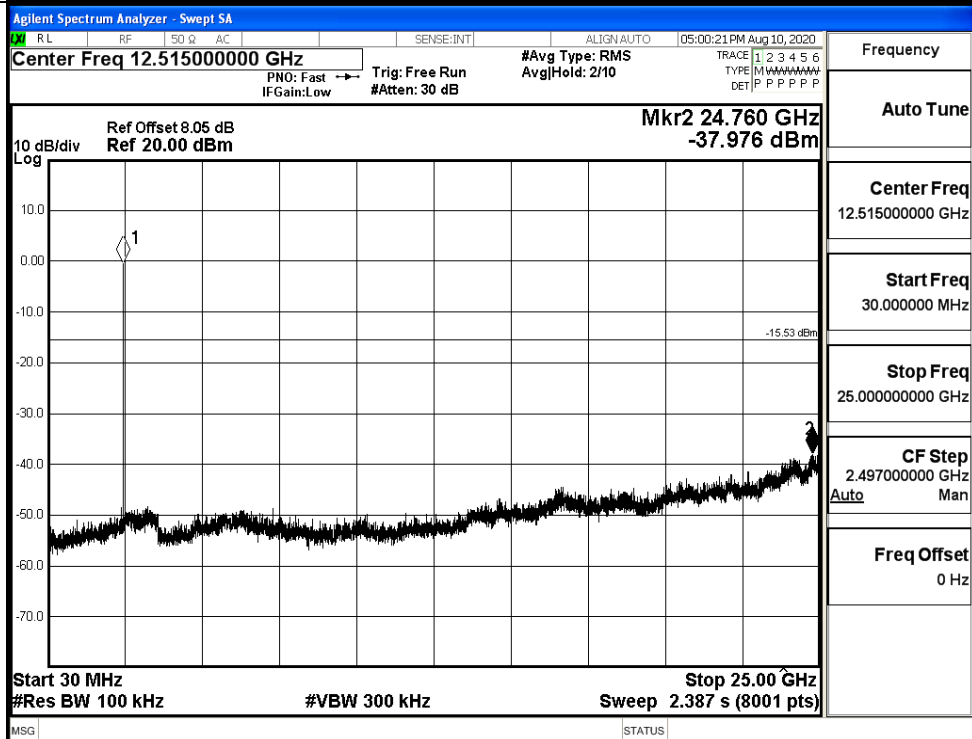


8DPSK_HCH_Graphs

Pref



Puw

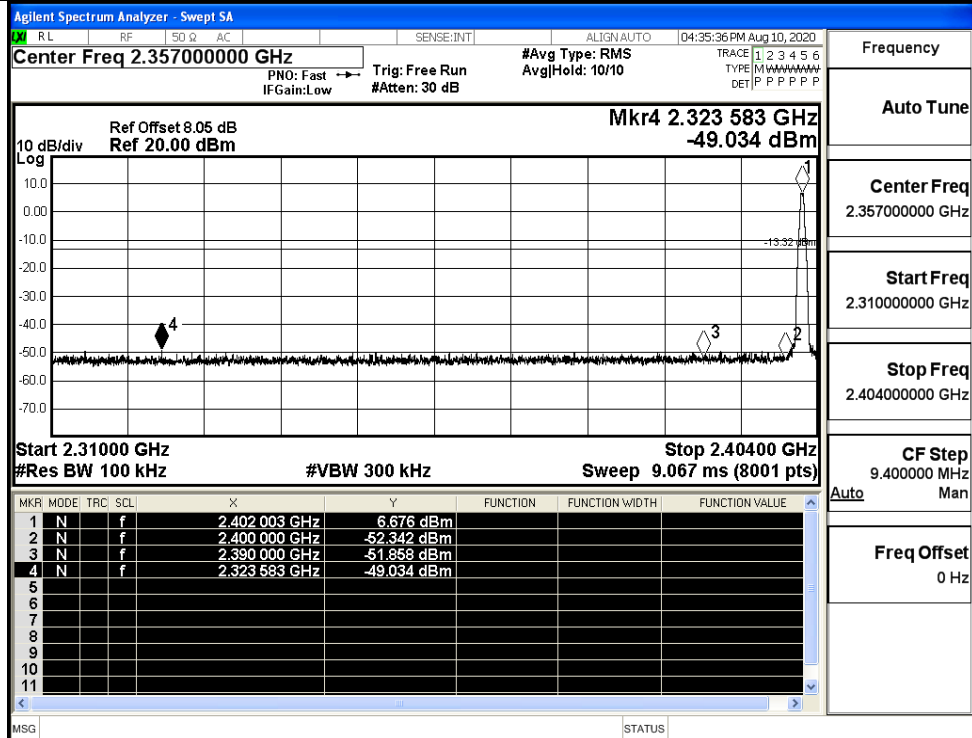


A.7 Band-edge for RF Conducted Emissions

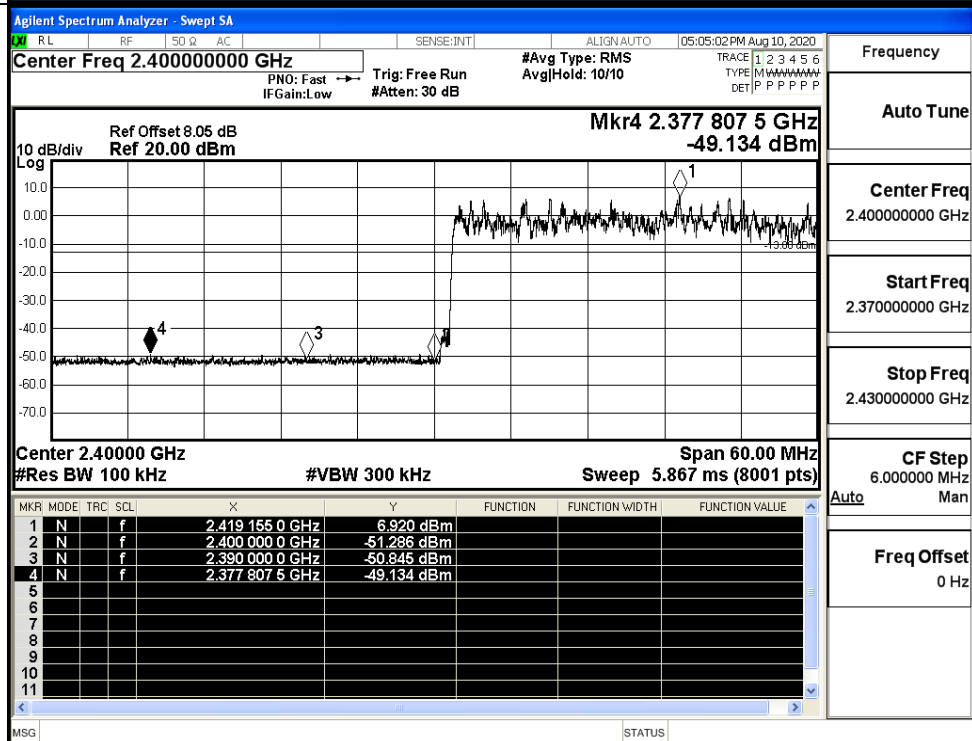
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	6.676	Off	-49.034	-13.32	PASS
			6.920	On	-49.134	-13.08	PASS
	HCH	2480	6.119	Off	-48.216	-13.88	PASS
			7.333	On	-48.207	-12.67	PASS
$\pi/4$ DQPSK	LCH	2402	6.069	Off	-48.903	-13.93	PASS
			6.631	On	-48.850	-13.37	PASS
	HCH	2480	5.286	Off	-48.605	-14.71	PASS
			7.139	On	-48.259	-12.86	PASS
8DPSK	LCH	2402	4.689	Off	-48.627	-15.31	PASS
			6.181	On	-49.020	-13.82	PASS
	HCH	2480	5.064	Off	-48.781	-14.94	PASS
			7.222	On	-48.465	-12.78	PASS

Test Graphs

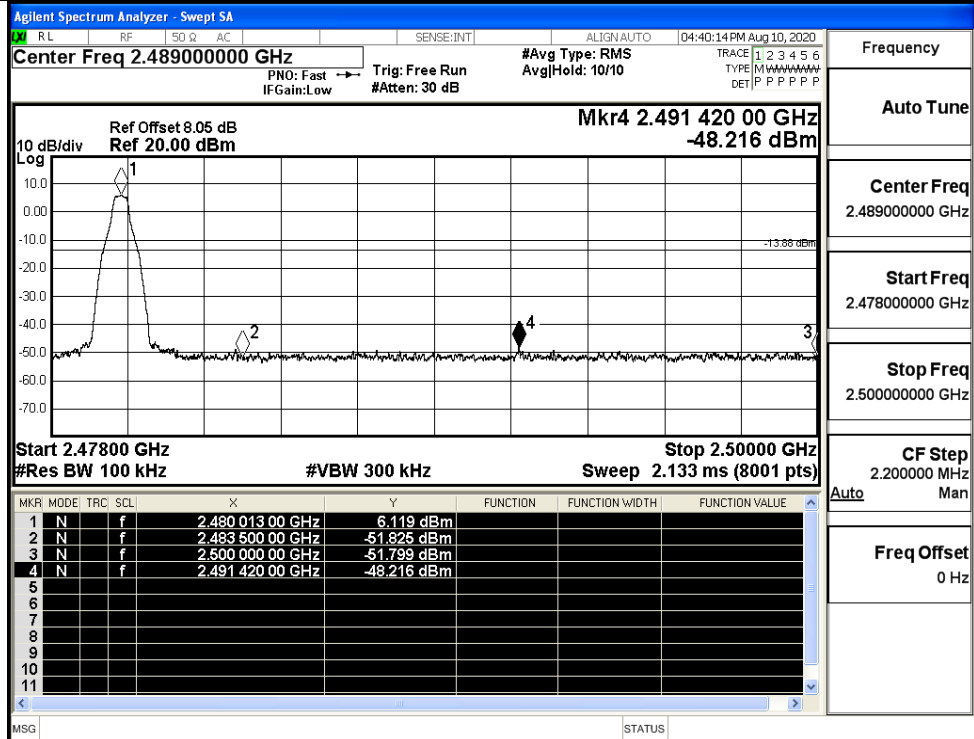
GFSK/LCH/No Hop



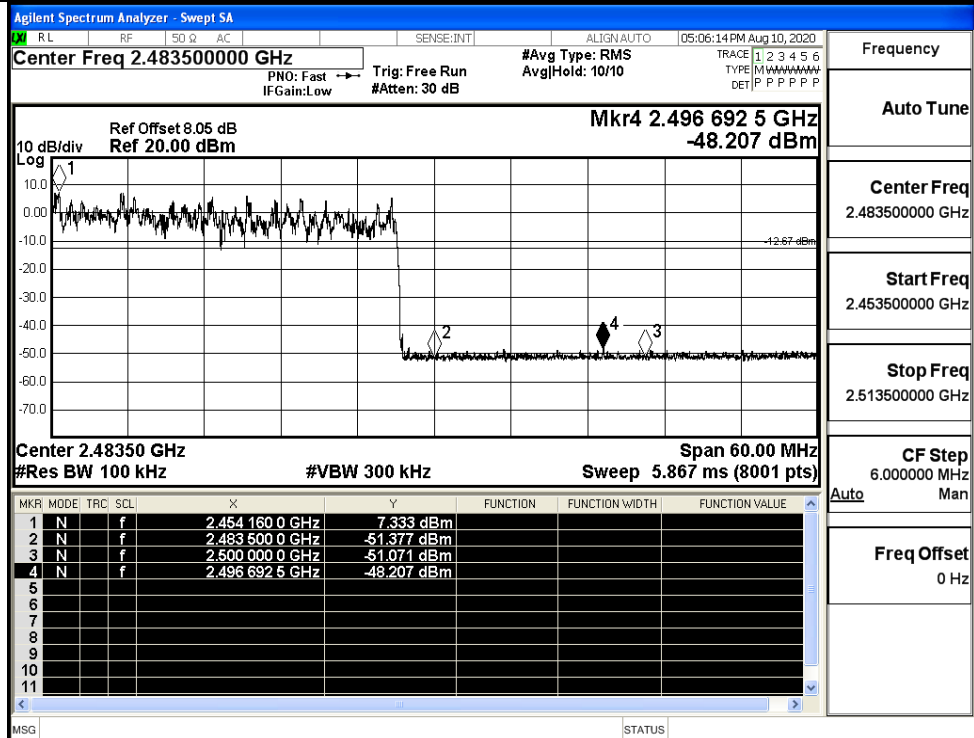
GFSK/LCH/Hop



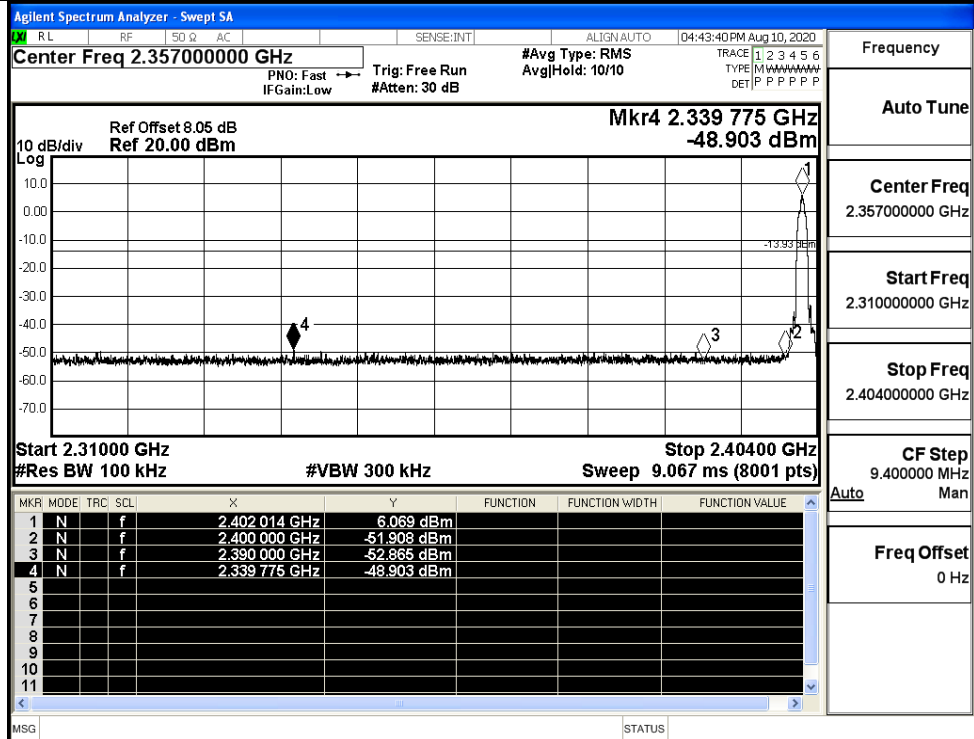
GFSK/HCH/No Hop



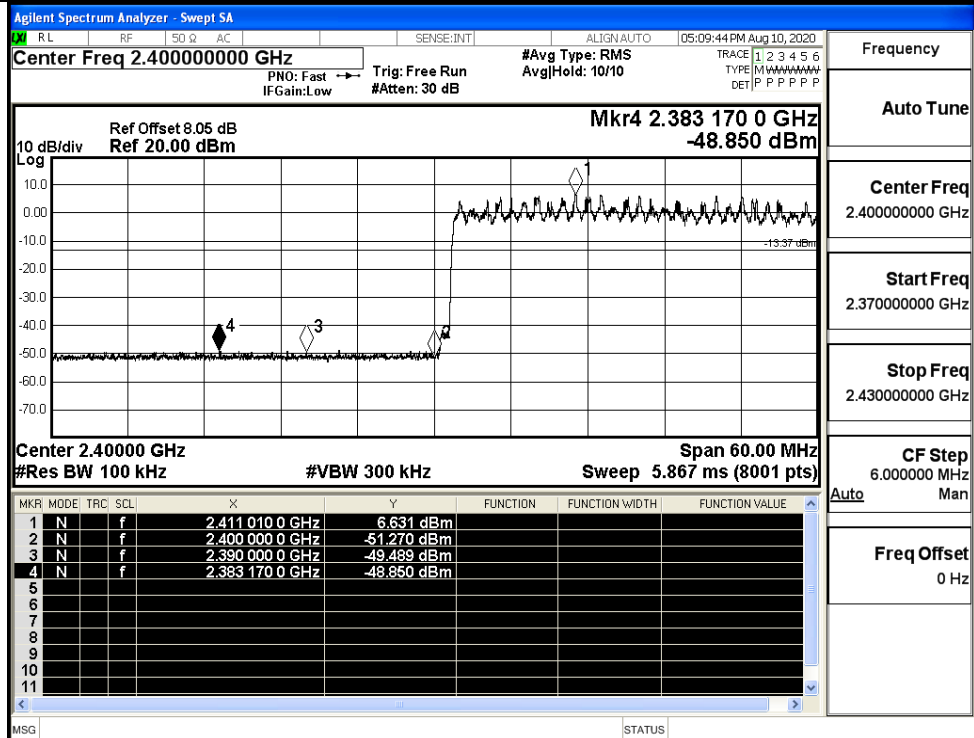
GFSK/HCH/Hop



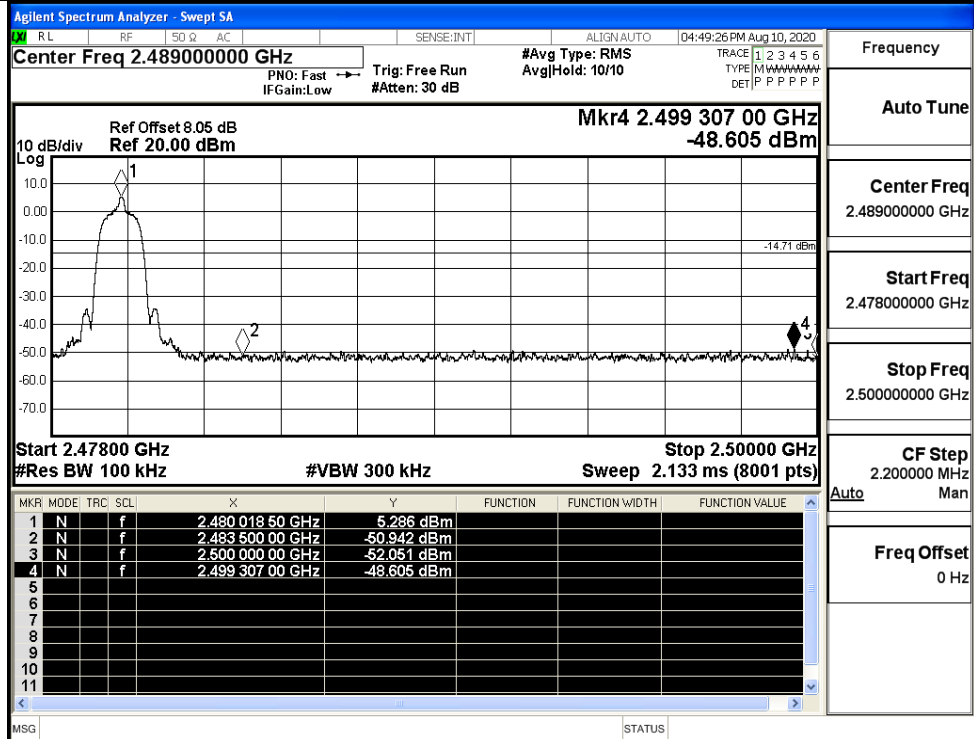
$\pi/4$ DQPSK/LCH/No
Hop



$\pi/4$ DQPSK/LCH/Hop



$\pi/4$ DQPSK/HCH/No
Hop

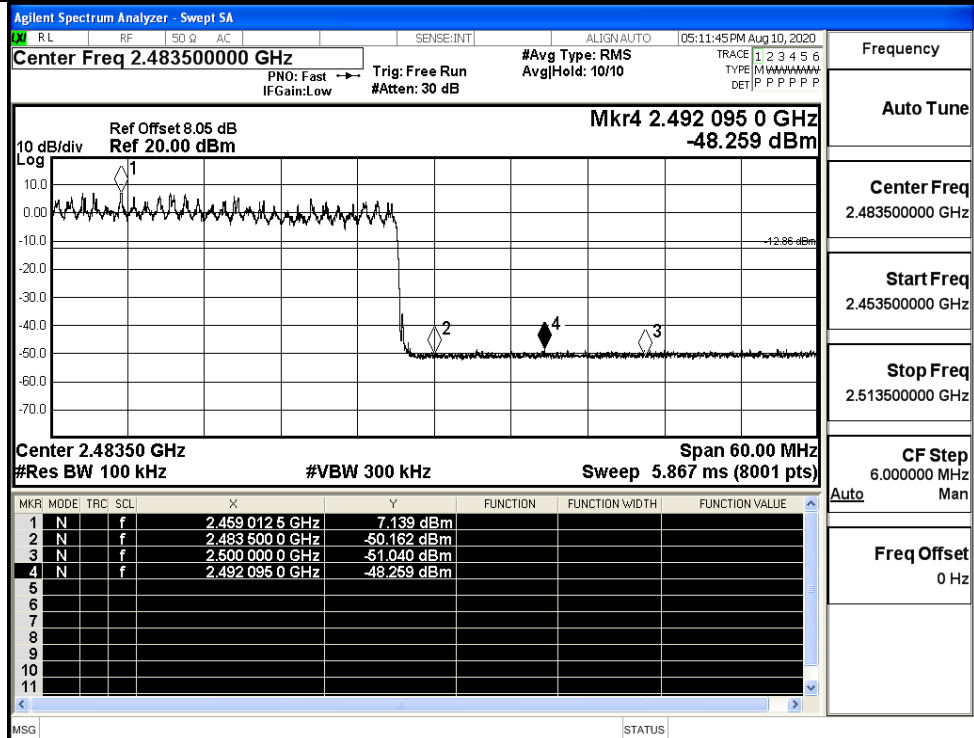


Frequency

Auto Tune

Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

$\pi/4$ DQPSK/HCH/Hop

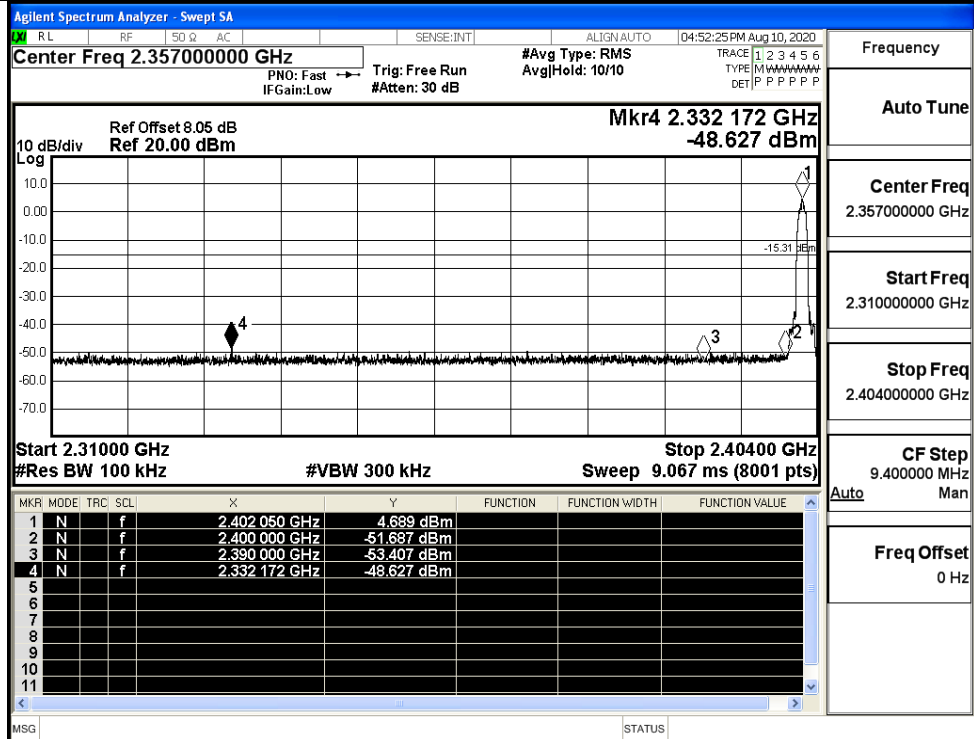


Frequency

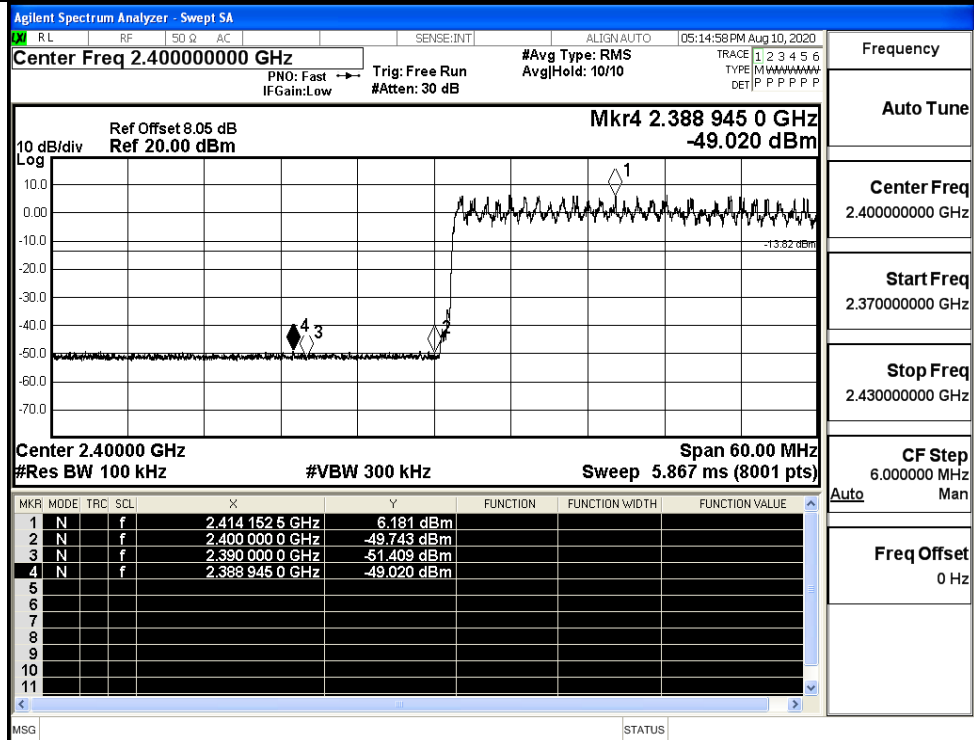
Auto Tune

Center Freq
2.483500000 GHzStart Freq
2.453500000 GHzStop Freq
2.513500000 GHzCF Step
6.000000 MHz
Auto ManFreq Offset
0 Hz

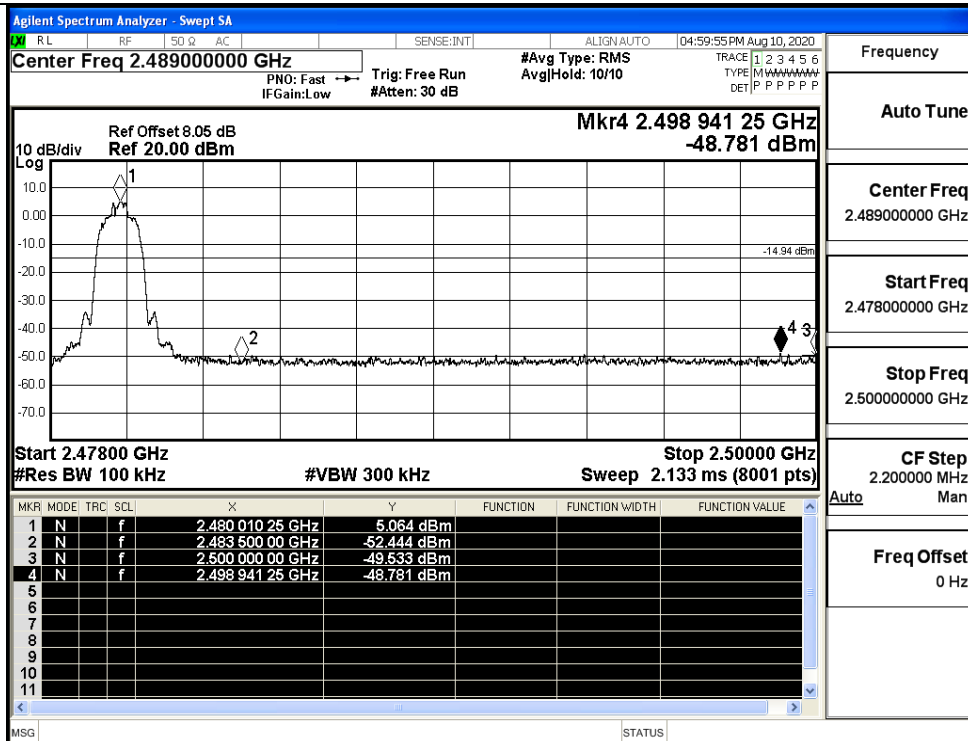
8DPSK/LCH/No Hop



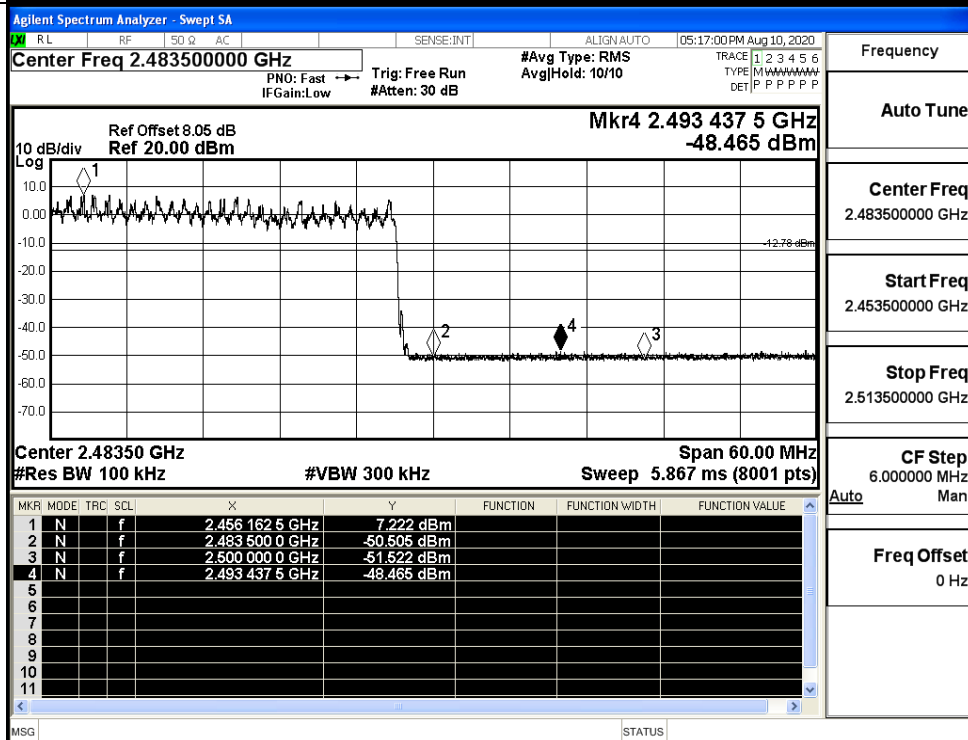
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



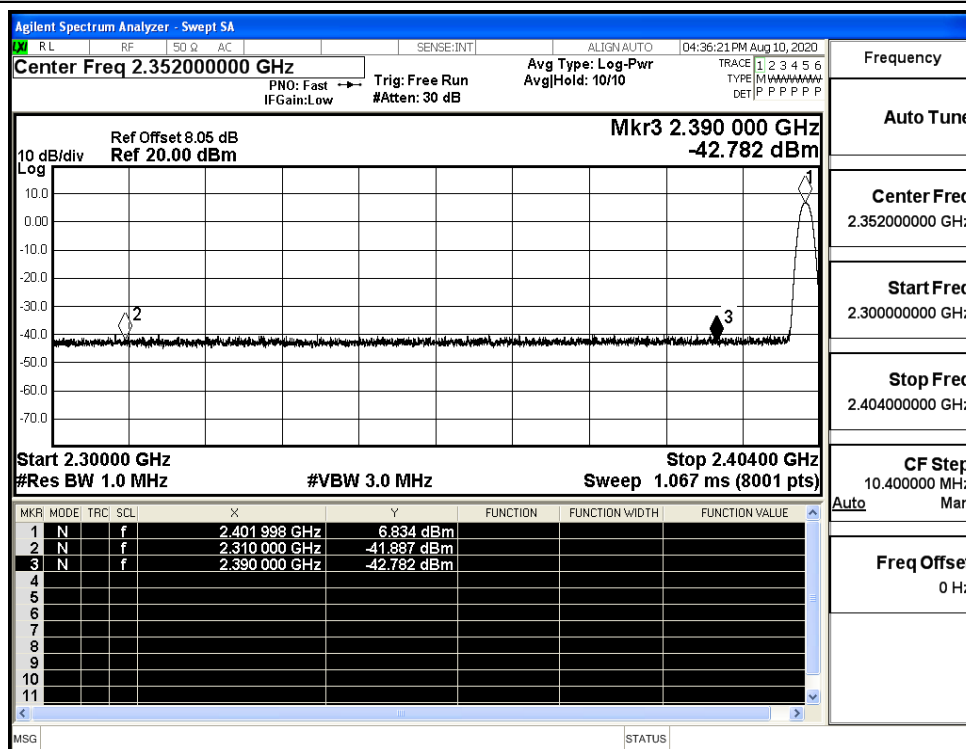
8DPSK/HCH/Hop



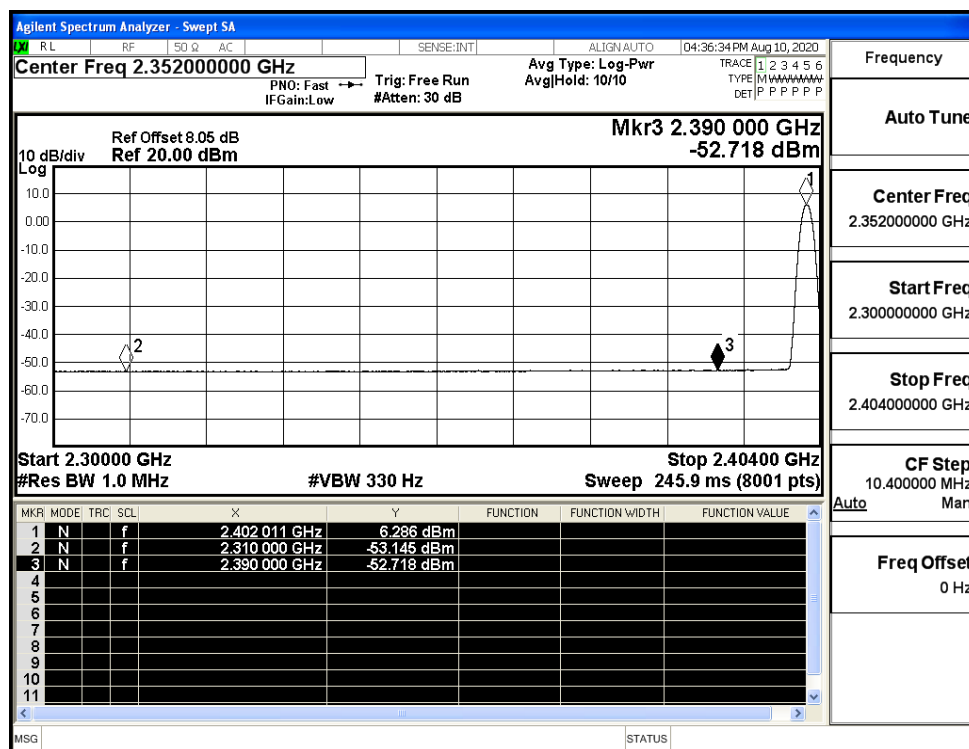
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-41.89	2.0	0	53.37	PEAK	74	PASS
	Off	2310.0	-53.15	2.0	0	42.11	AV	54	PASS
	Off	2390.0	-42.78	2.0	0	52.48	PEAK	74	PASS
	Off	2390.0	-52.72	2.0	0	42.54	AV	54	PASS
	Off	2483.5	-42.34	2.0	0	52.92	PEAK	74	PASS
	Off	2483.5	-52.21	2.0	0	43.05	AV	54	PASS
	Off	2500.0	-42.73	2.0	0	52.53	PEAK	74	PASS
	Off	2500.0	-52.15	2.0	0	43.10	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-42.82	2.0	0	52.44	PEAK	74	PASS
	Off	2310.0	-53.04	2.0	0	42.22	AV	54	PASS
	Off	2390.0	-43.35	2.0	0	51.91	PEAK	74	PASS
	Off	2390.0	-52.79	2.0	0	42.47	AV	54	PASS
	Off	2483.5	-41.79	2.0	0	53.47	PEAK	74	PASS
	Off	2483.5	-52.24	2.0	0	43.02	AV	54	PASS
	Off	2500.0	-42.39	2.0	0	52.87	PEAK	74	PASS
	Off	2500.0	-52.03	2.0	0	43.23	AV	54	PASS
8DPSK	Off	2310.0	-42.91	2.0	0	52.35	PEAK	74	PASS
	Off	2310.0	-53.24	2.0	0	42.02	AV	54	PASS
	Off	2390.0	-42.78	2.0	0	52.48	PEAK	74	PASS
	Off	2390.0	-52.76	2.0	0	42.50	AV	54	PASS
	Off	2483.5	-42.08	2.0	0	53.18	PEAK	74	PASS
	Off	2483.5	-52.37	2.0	0	42.89	AV	54	PASS
	Off	2500.0	-42.86	2.0	0	52.40	PEAK	74	PASS
	Off	2500.0	-52.19	2.0	0	43.07	AV	54	PASS

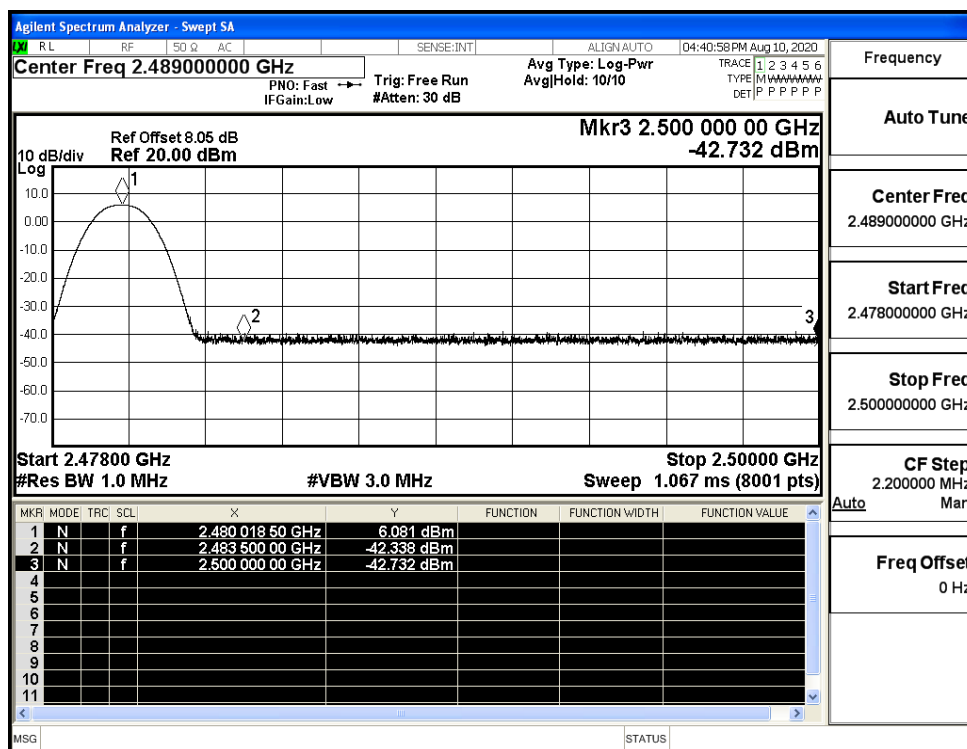
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



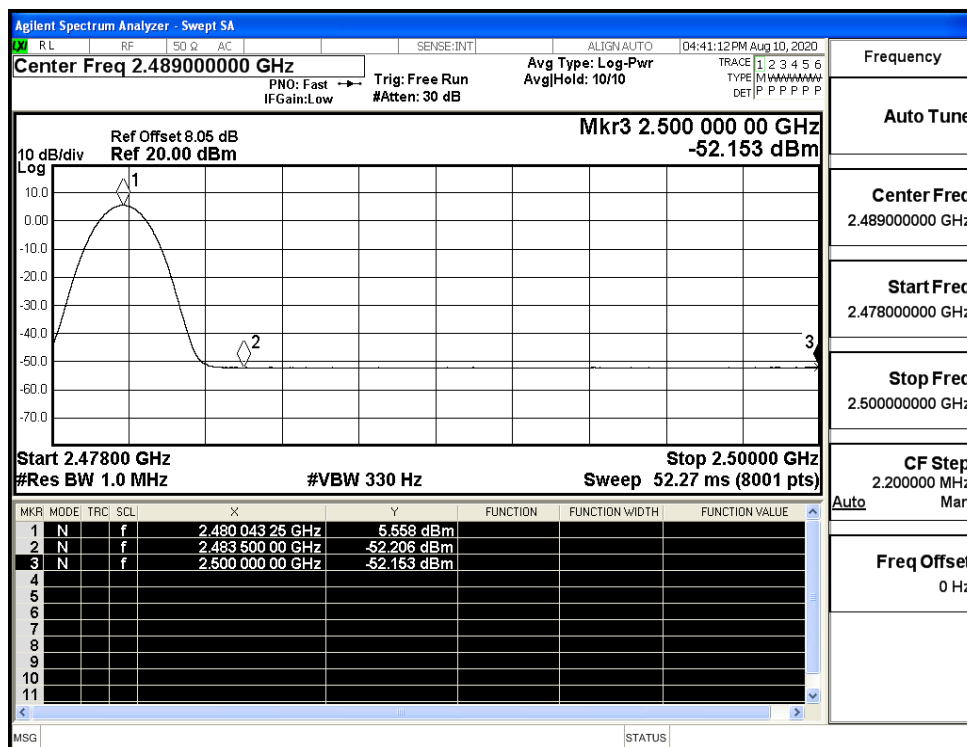
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)

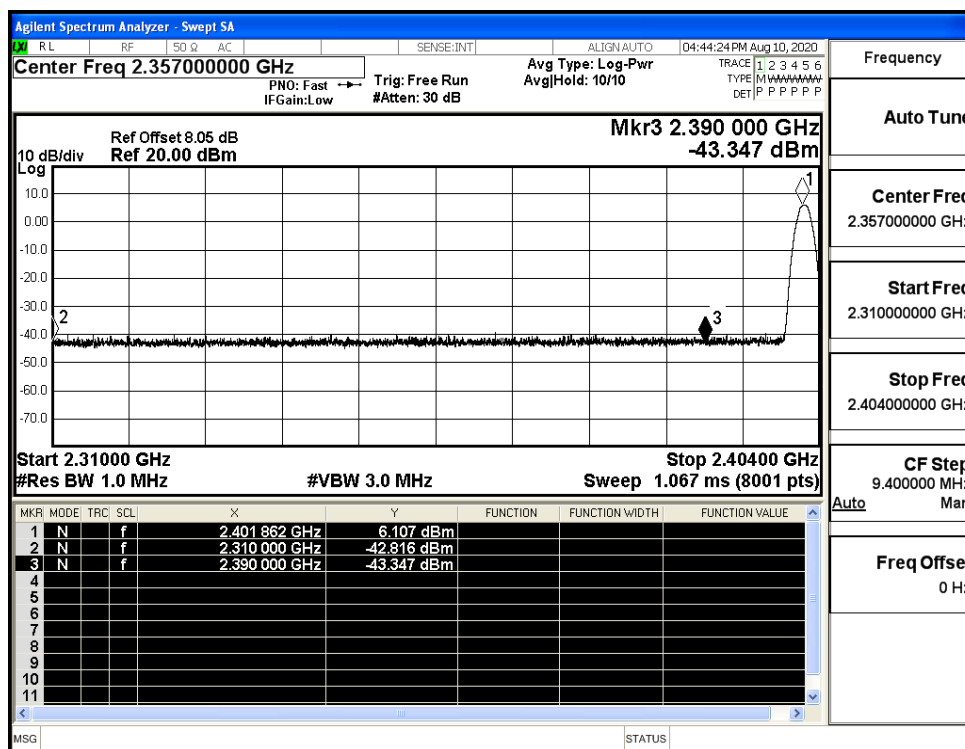
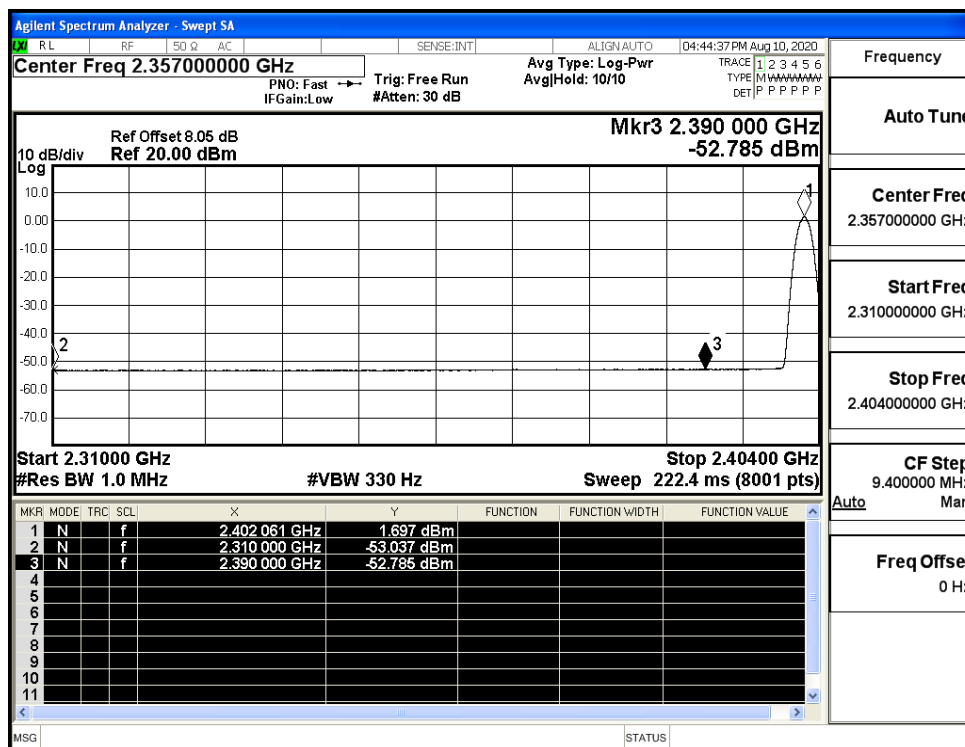


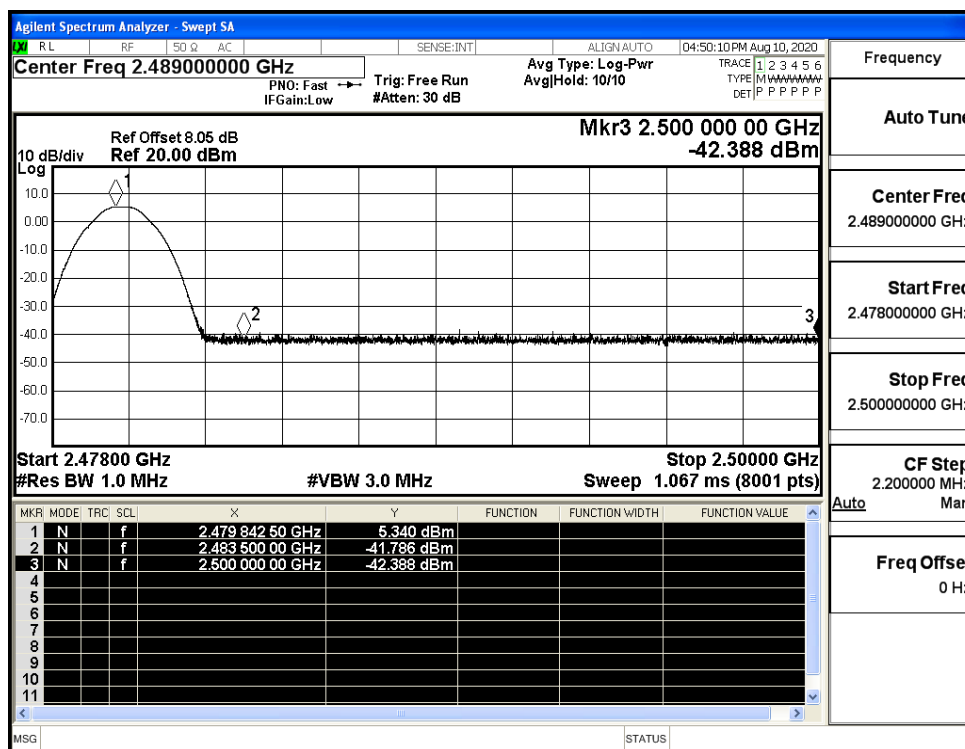
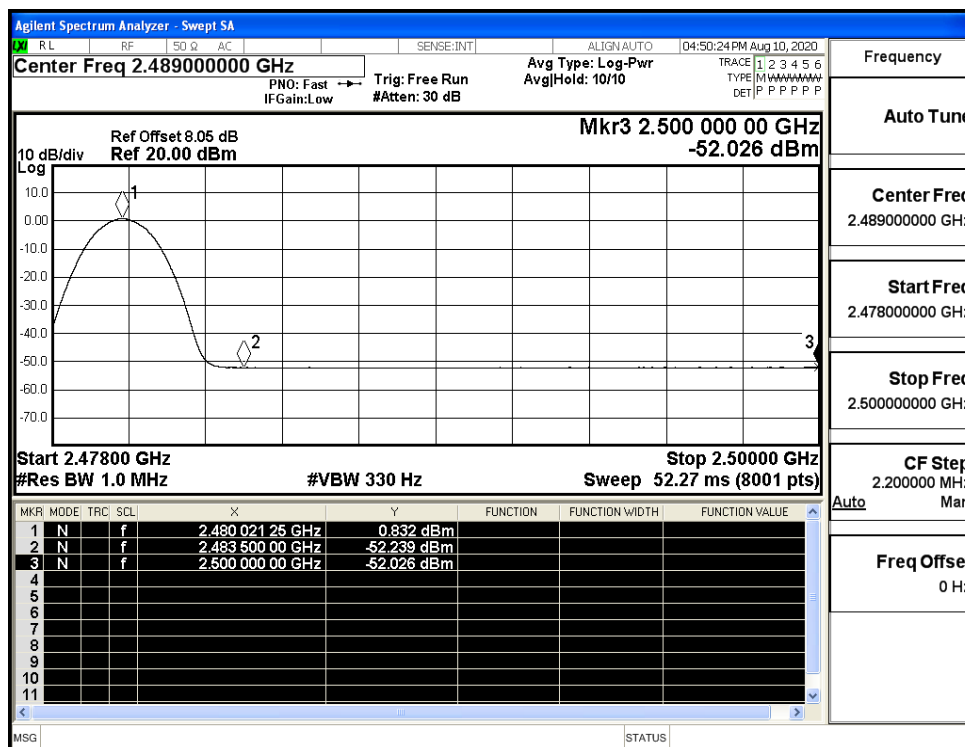
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



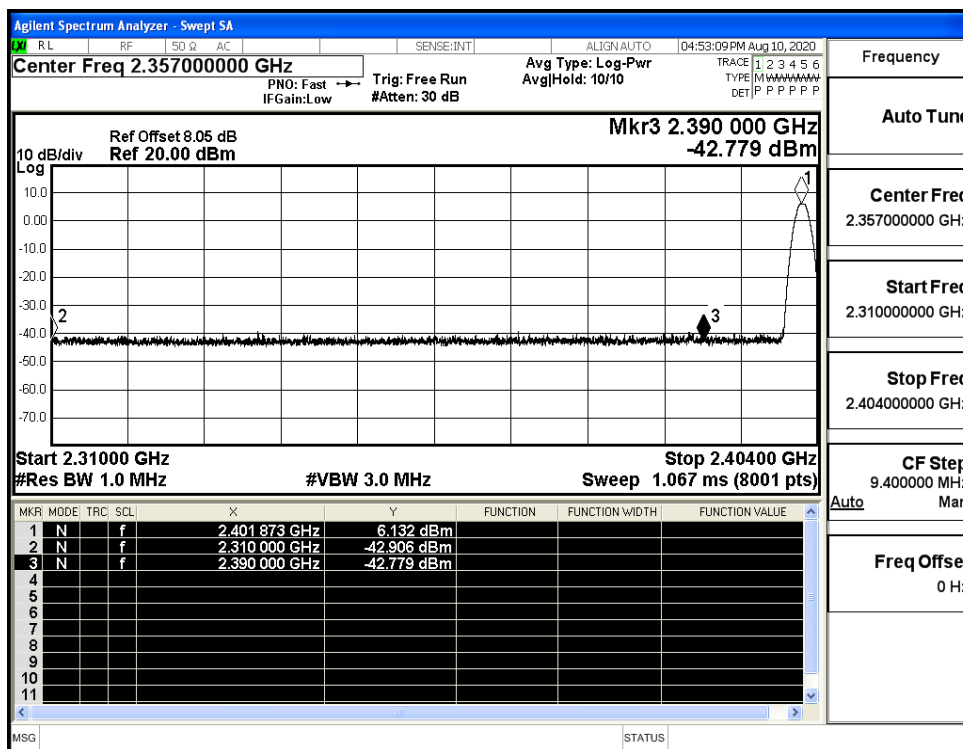
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



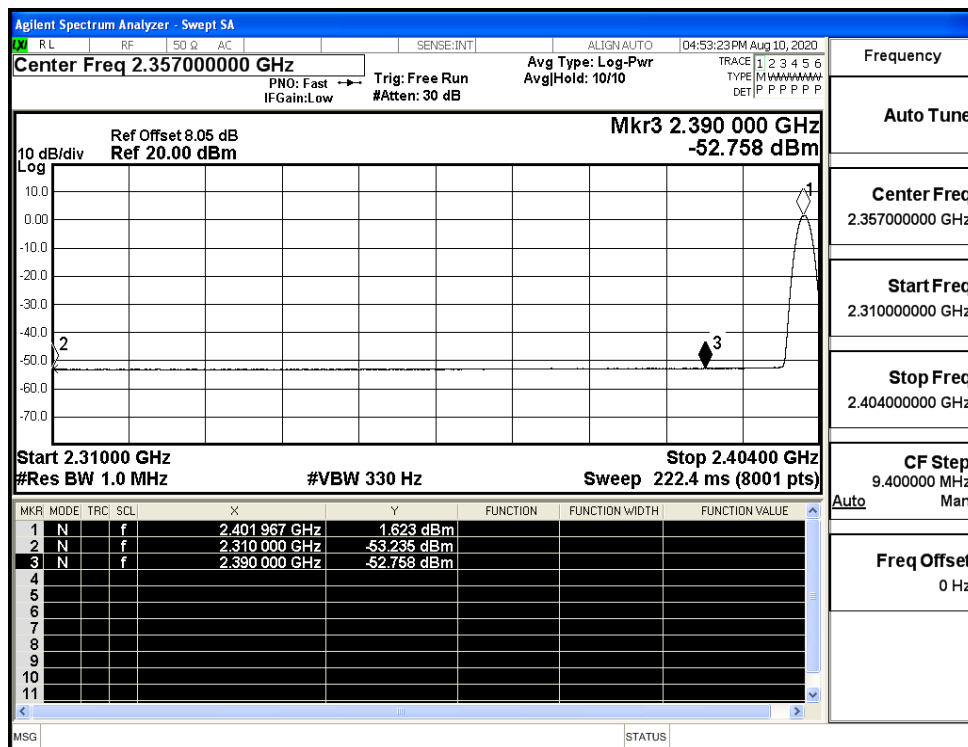
Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)

Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (High Channel)Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (High Channel)

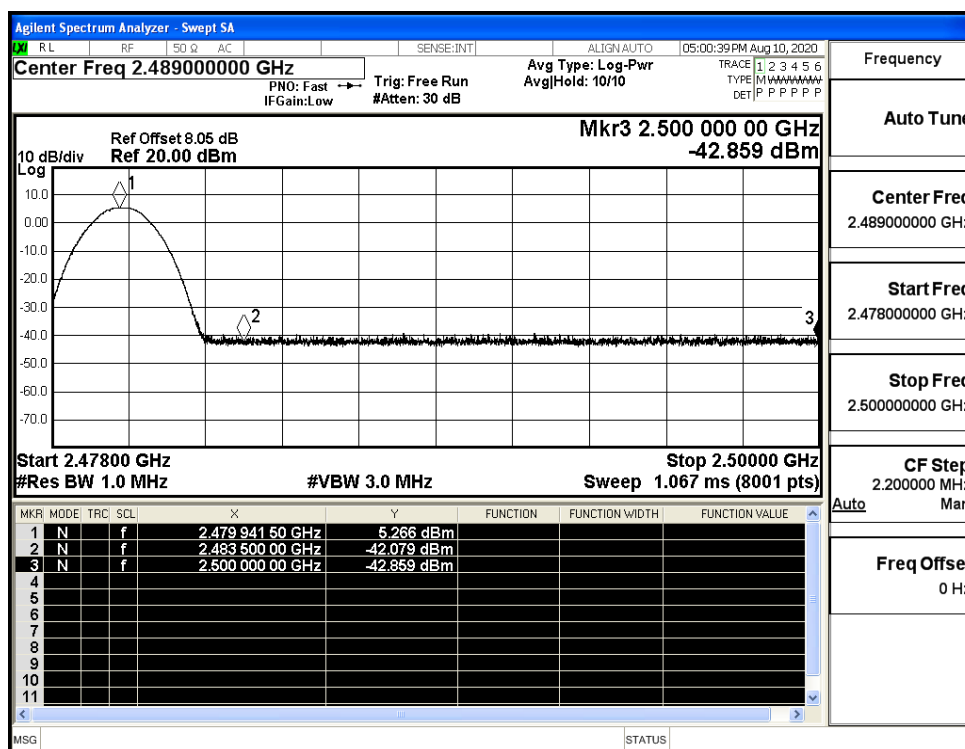
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (High Channel)

