

Appendix A

RF Test Data for BT V4.1(BDR/EDR) (Conducted Measurement)

Product Name: Tablet PC
Trade Mark: 322222Satelital
Test Model: G706

Environmental Conditions

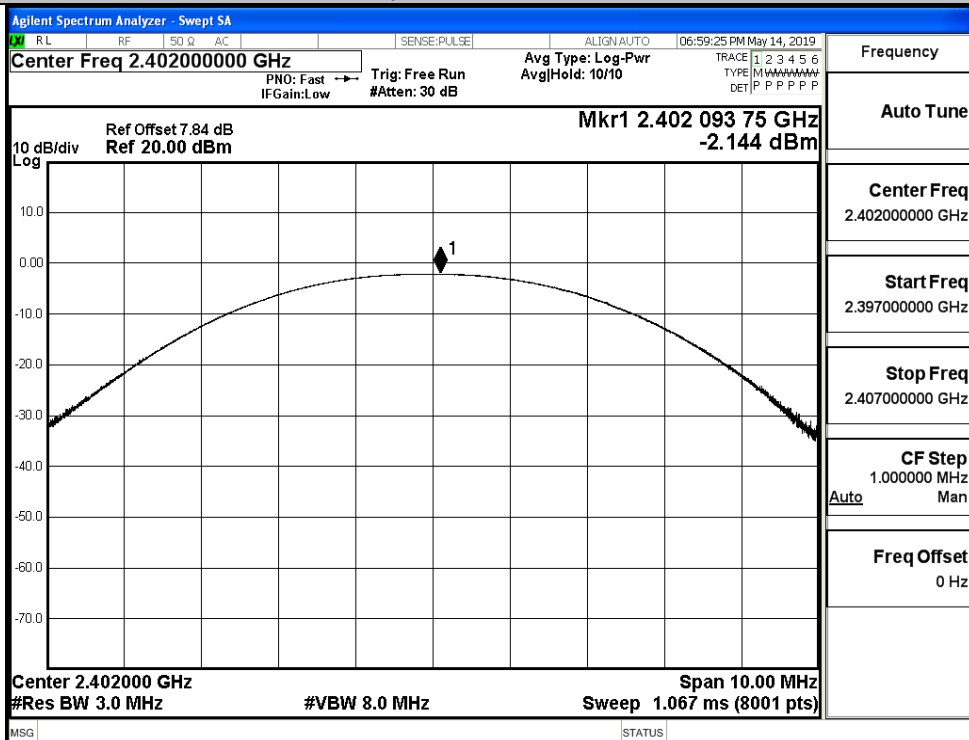
Temperature:	24.8 ° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang Chuang
Supervised by:	Tom Liu

A.1 Maximum Conducted Peak Output Power

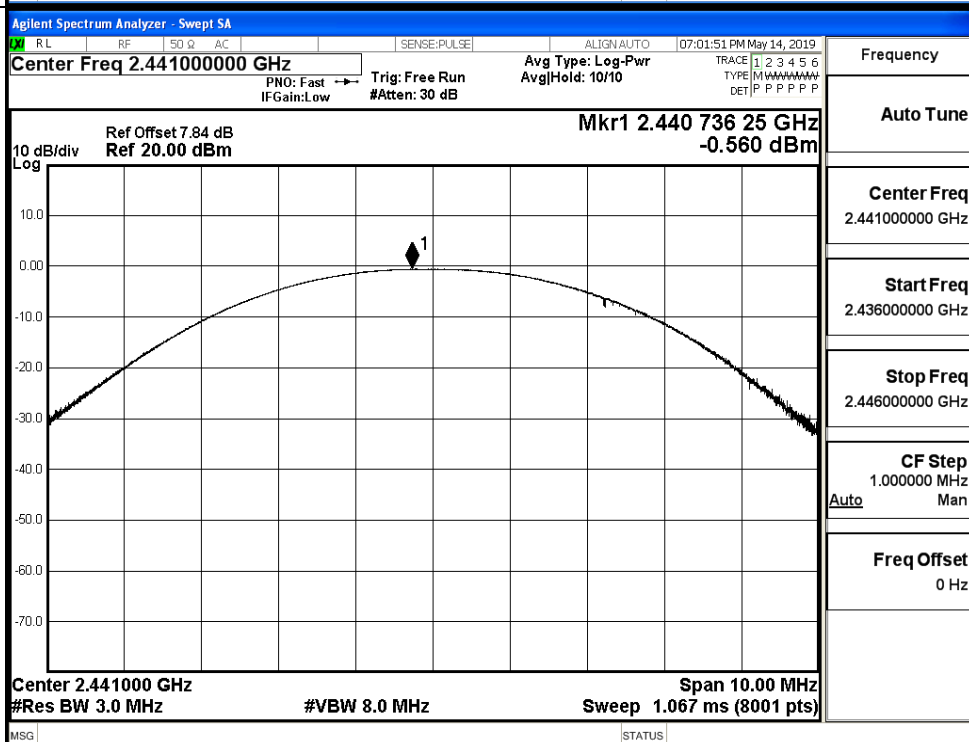
Mode	Channel.	Maximum Peak Output Power [dBm]	Maximum Average Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-2.144	-2.355	30	PASS
	MCH	-0.560	-0.722	30	PASS
	HCH	-1.526	-1.745	30	PASS
$\pi/4$ DQPSK	LCH	-2.707	-2.851	21	PASS
	MCH	-1.346	-1.476	21	PASS
	HCH	-2.292	-2.478	21	PASS
8DPSK	LCH	-2.861	-3.025	21	PASS
	MCH	-1.362	-1.545	21	PASS
	HCH	-2.318	-2.476	21	PASS

Test Graphs

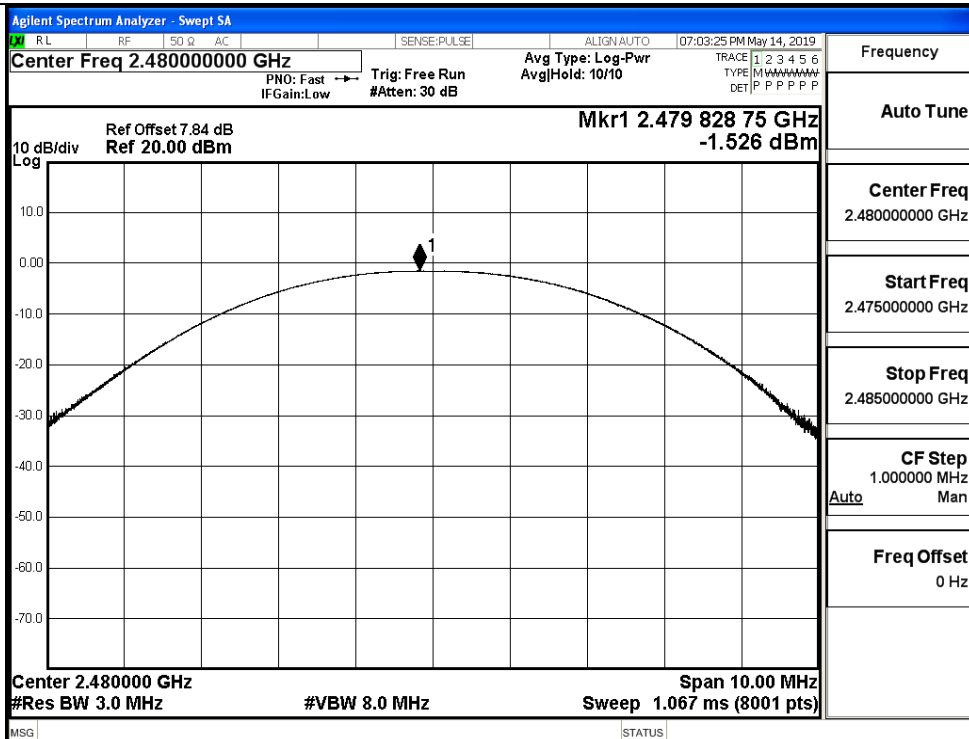
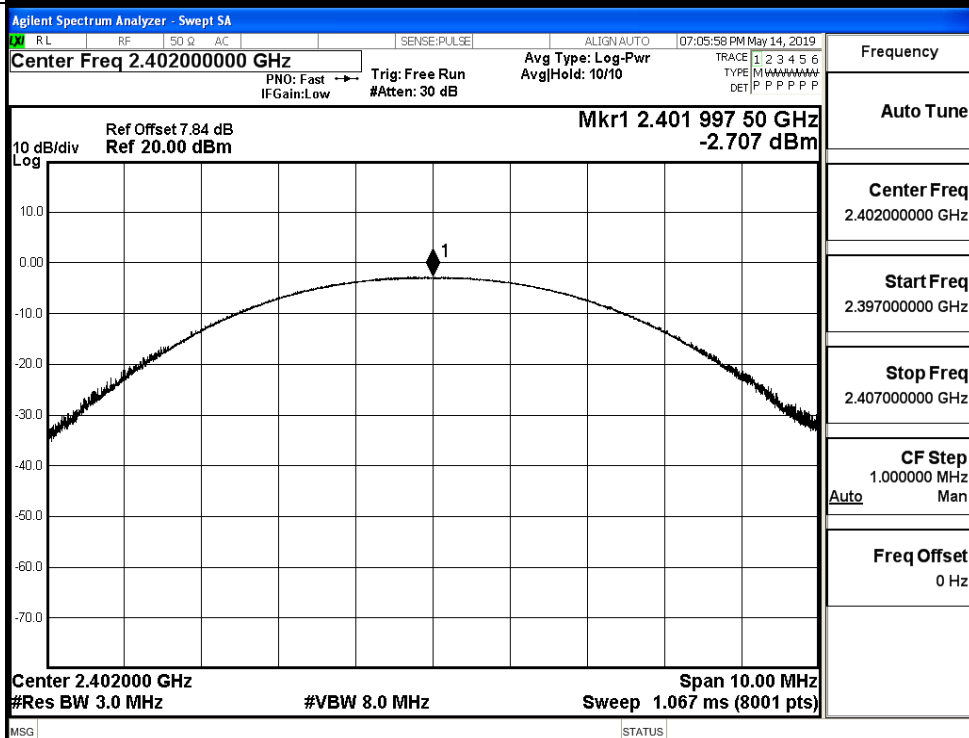
GFSK/LCH

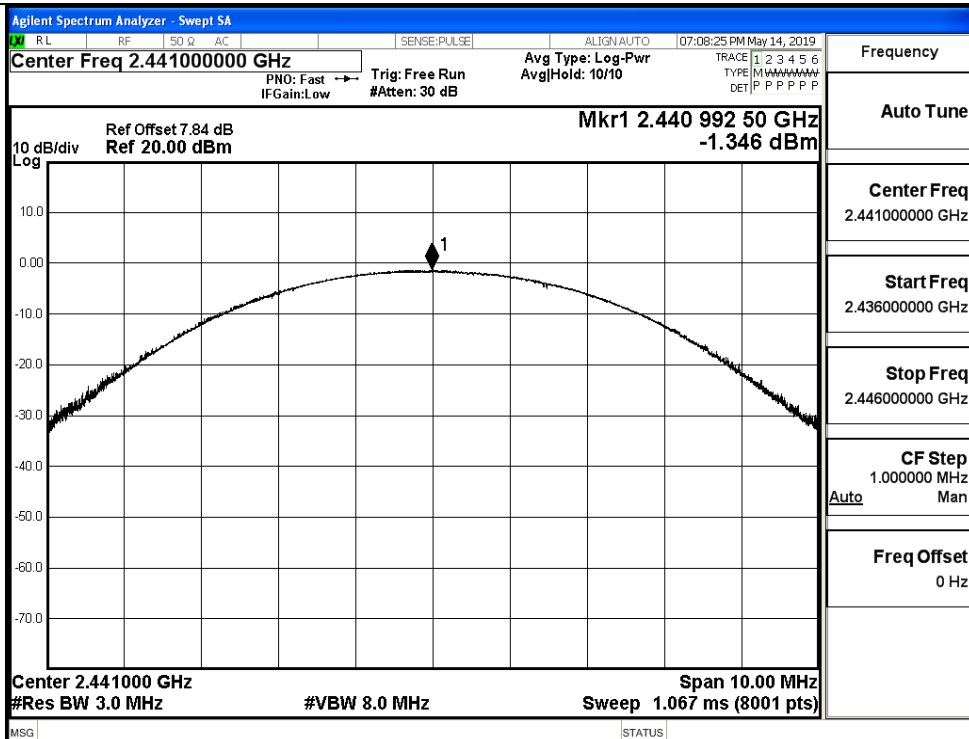
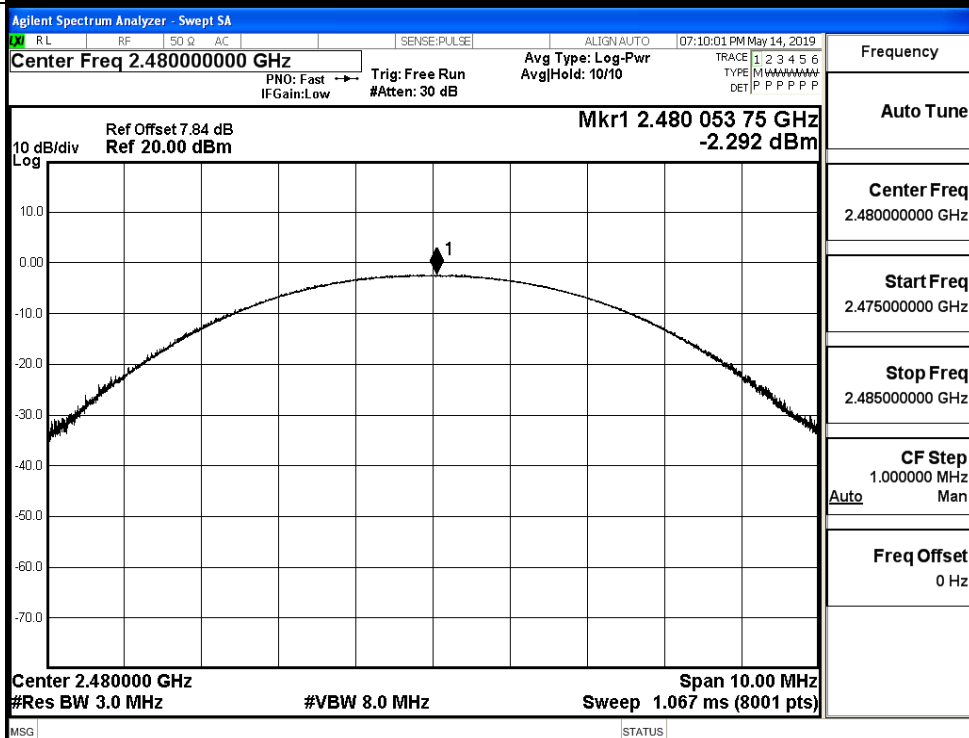


GFSK/MCH

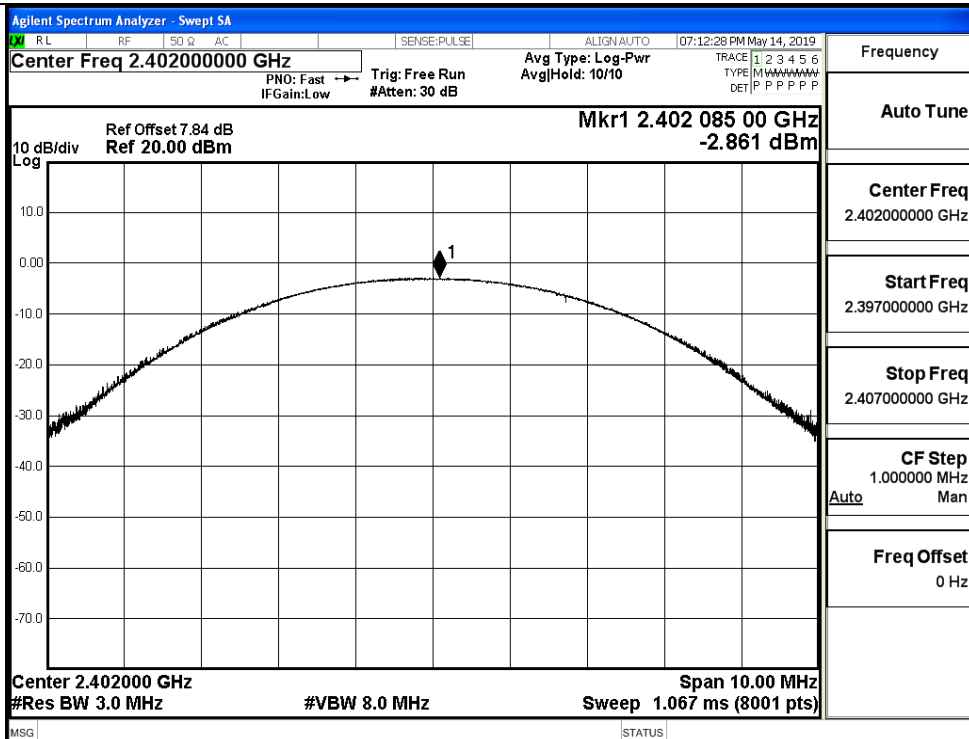


GFSK/HCH

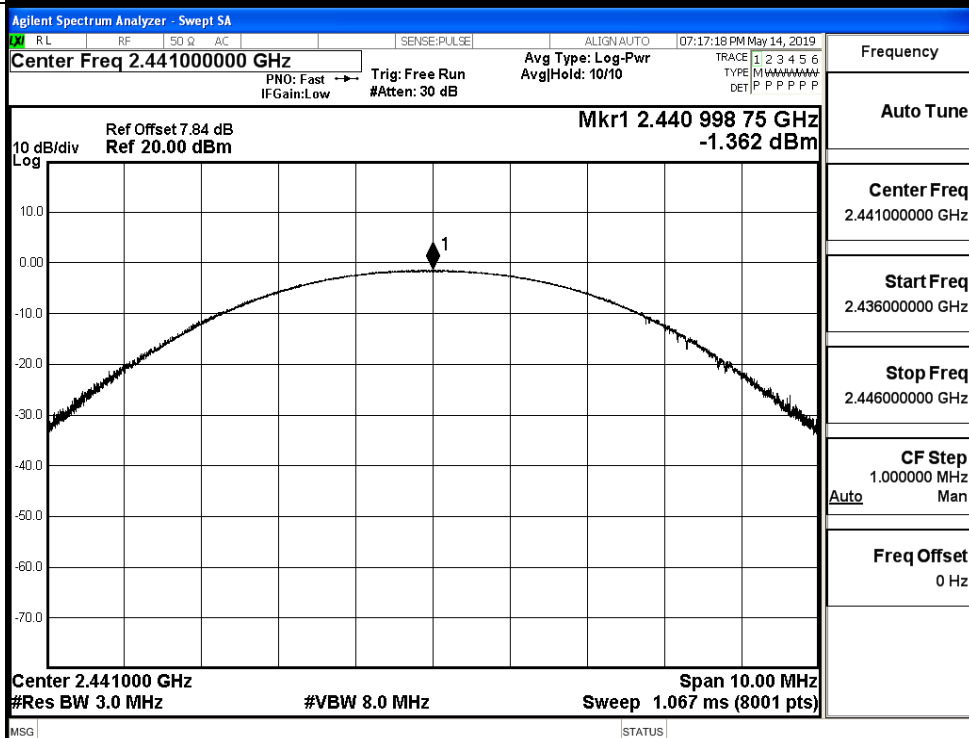
 π /4DQPSK/LCH

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

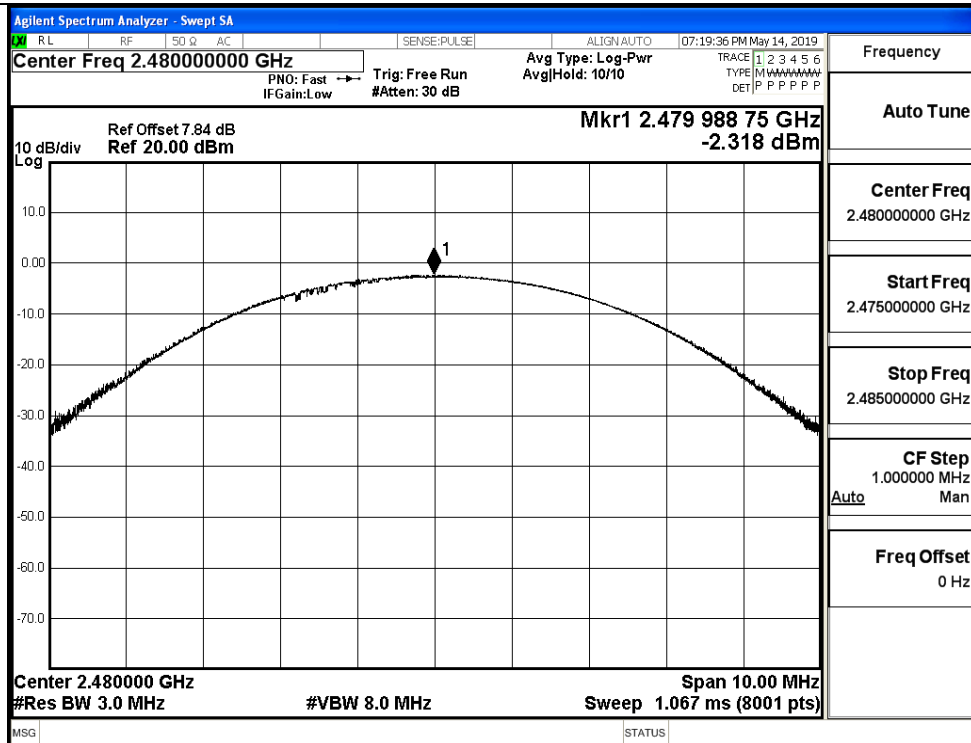
8DPSK/LCH



8DPSK/MCH



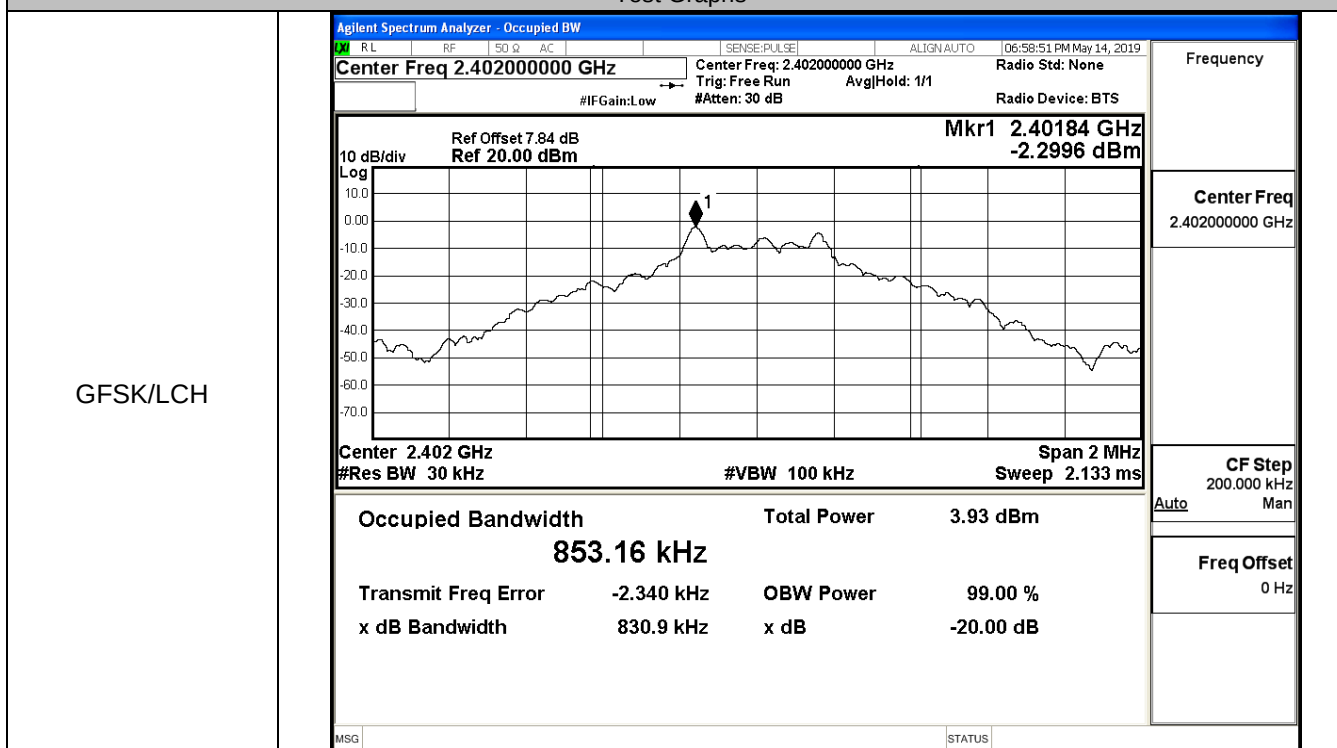
8DPSK/HCH



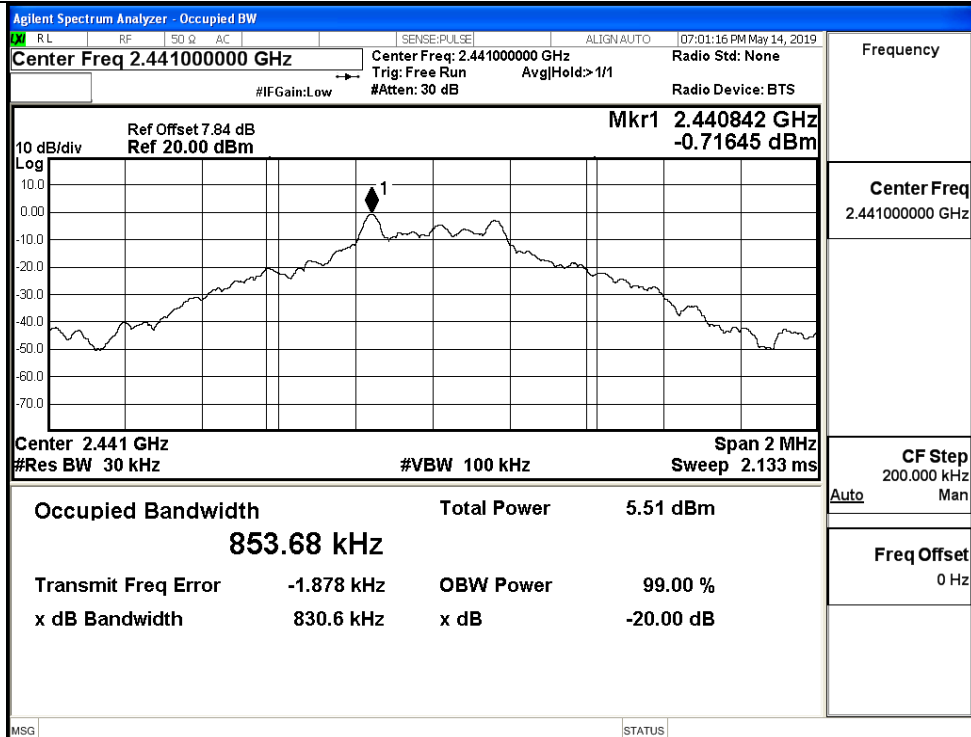
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.8309	Not Specified	PASS
	MCH	0.8306	Not Specified	PASS
	HCH	0.8293	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.117	Not Specified	PASS
	MCH	1.119	Not Specified	PASS
	HCH	1.117	Not Specified	PASS
8DPSK	LCH	1.127	Not Specified	PASS
	MCH	1.073	Not Specified	PASS
	HCH	1.116	Not Specified	PASS

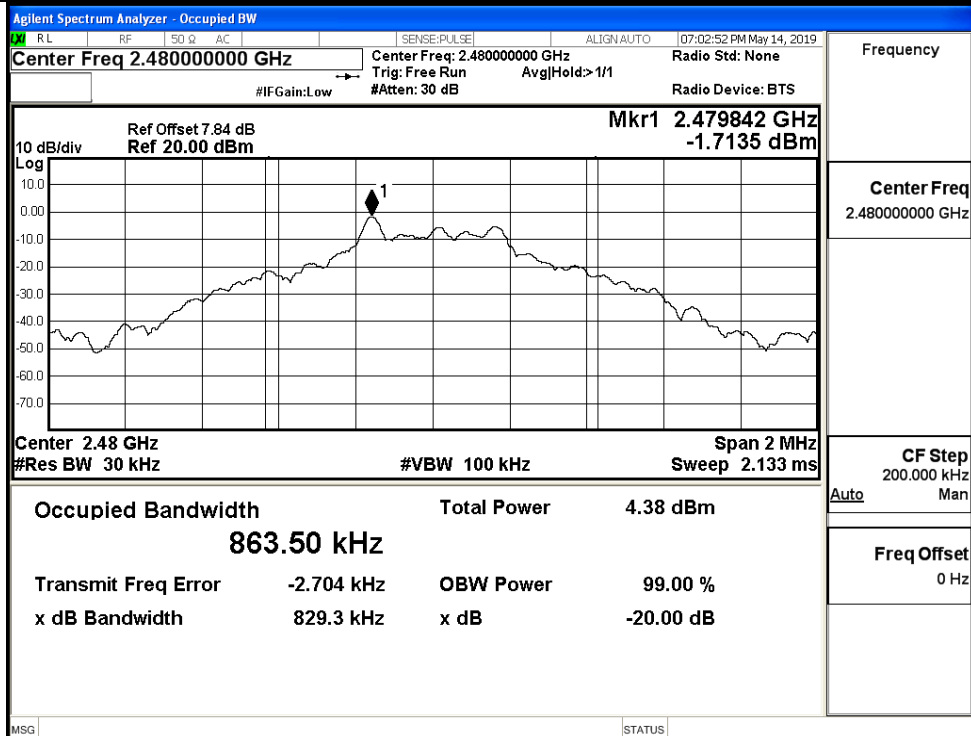
Test Graphs

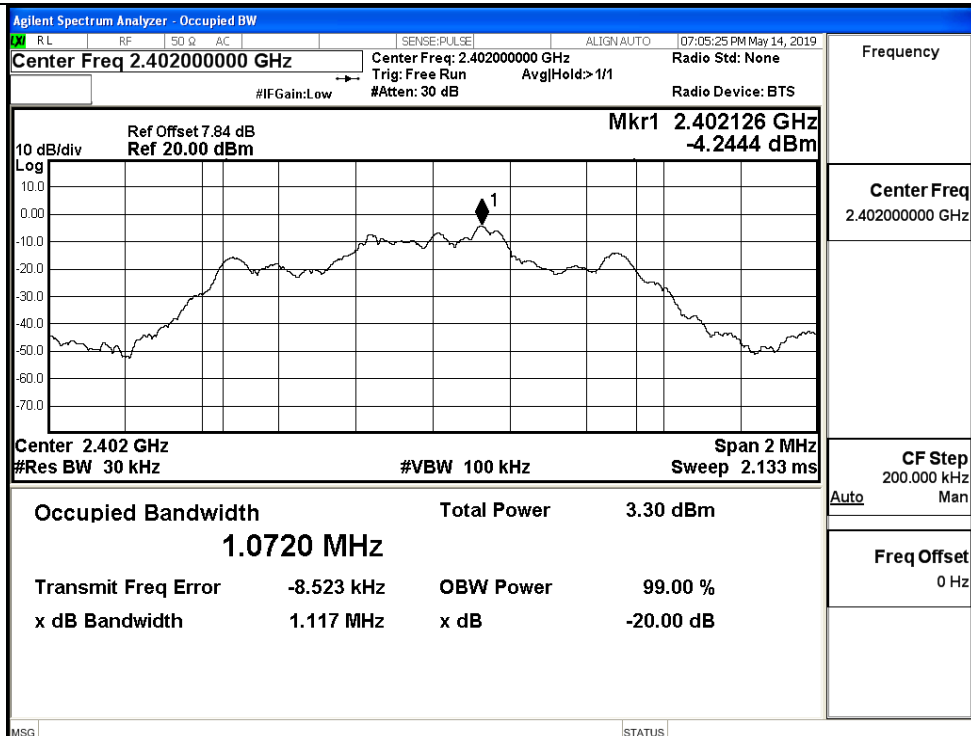
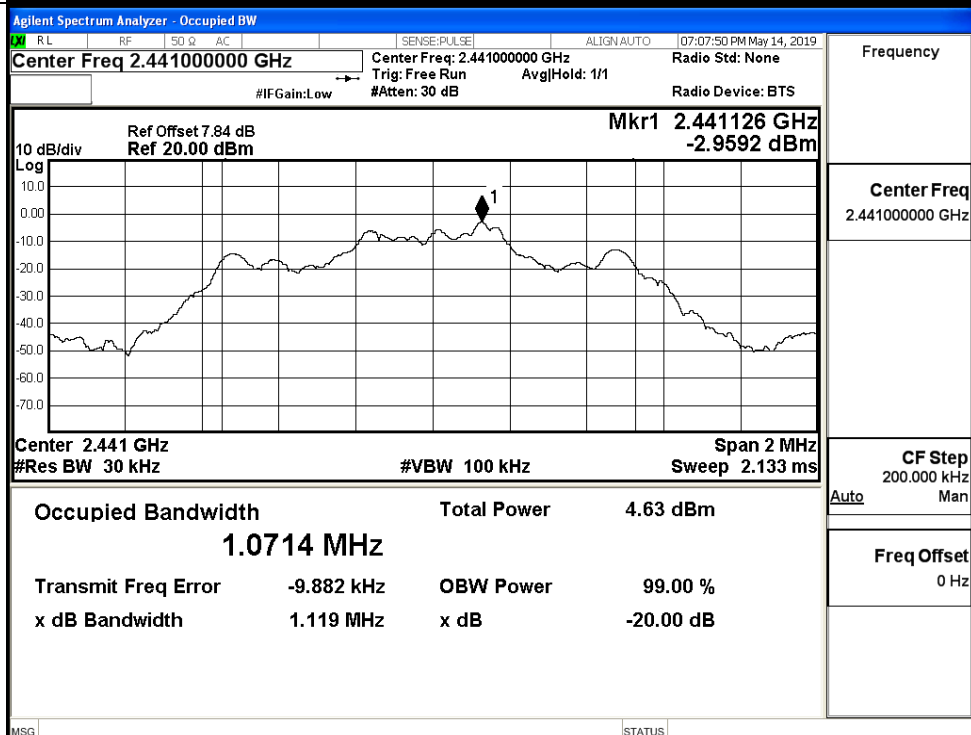


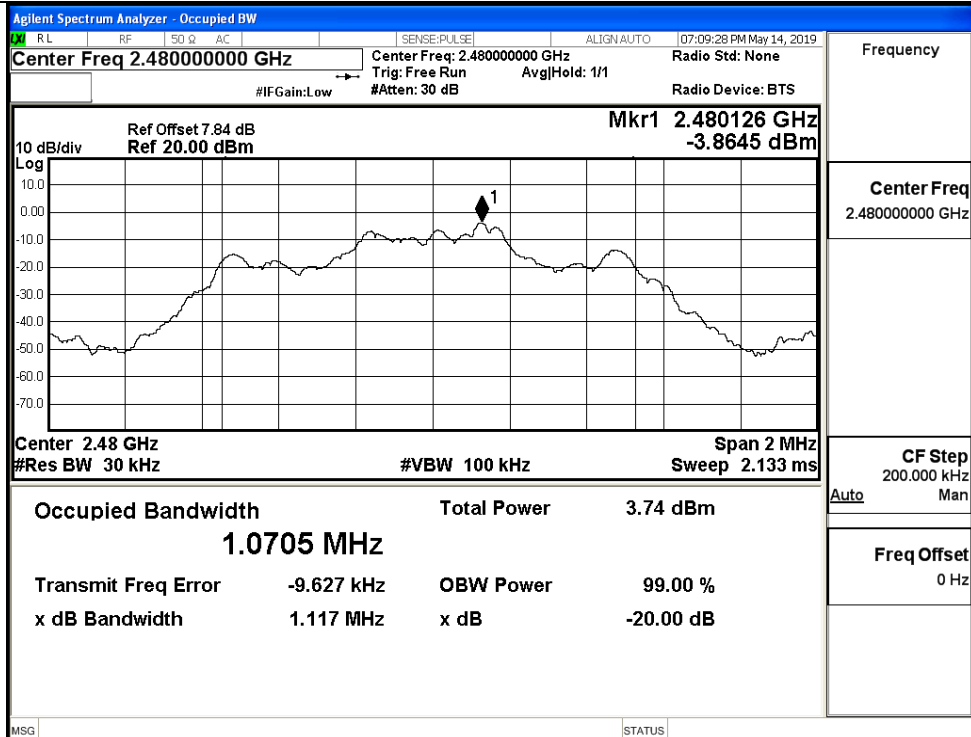
GFSK/MCH



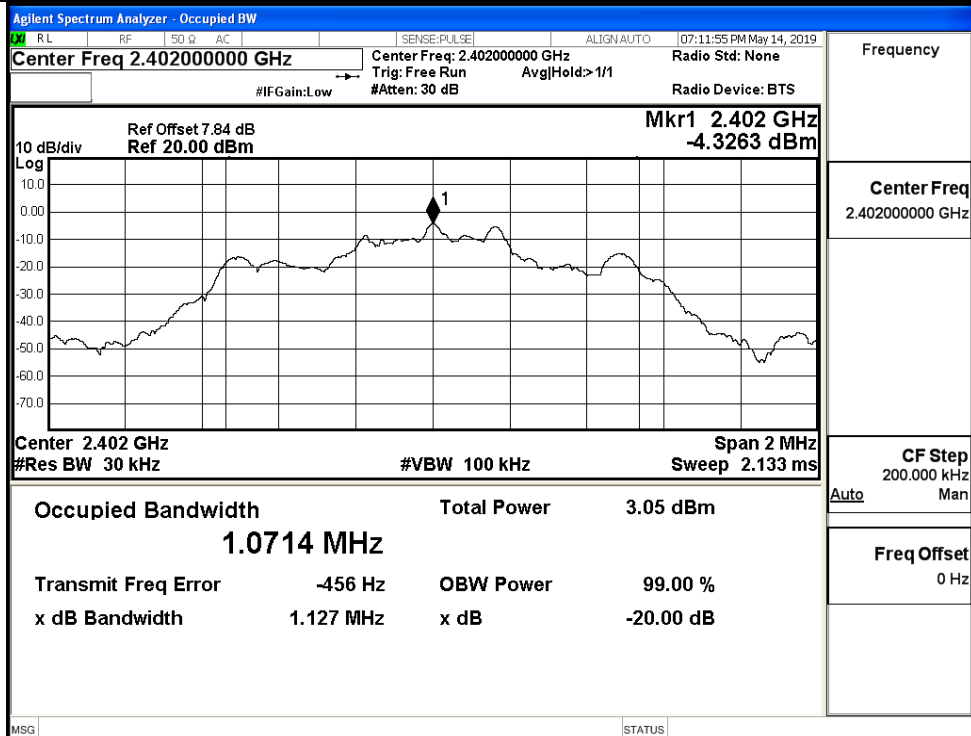
GFSK/HCH



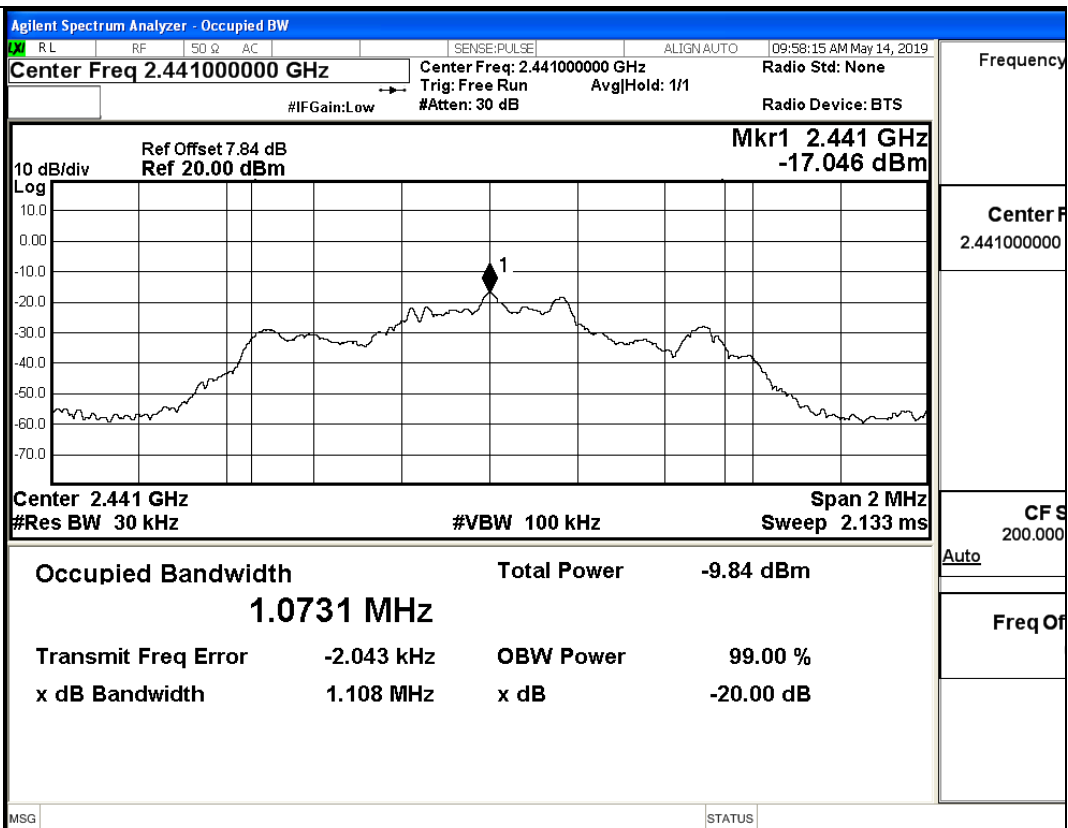
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

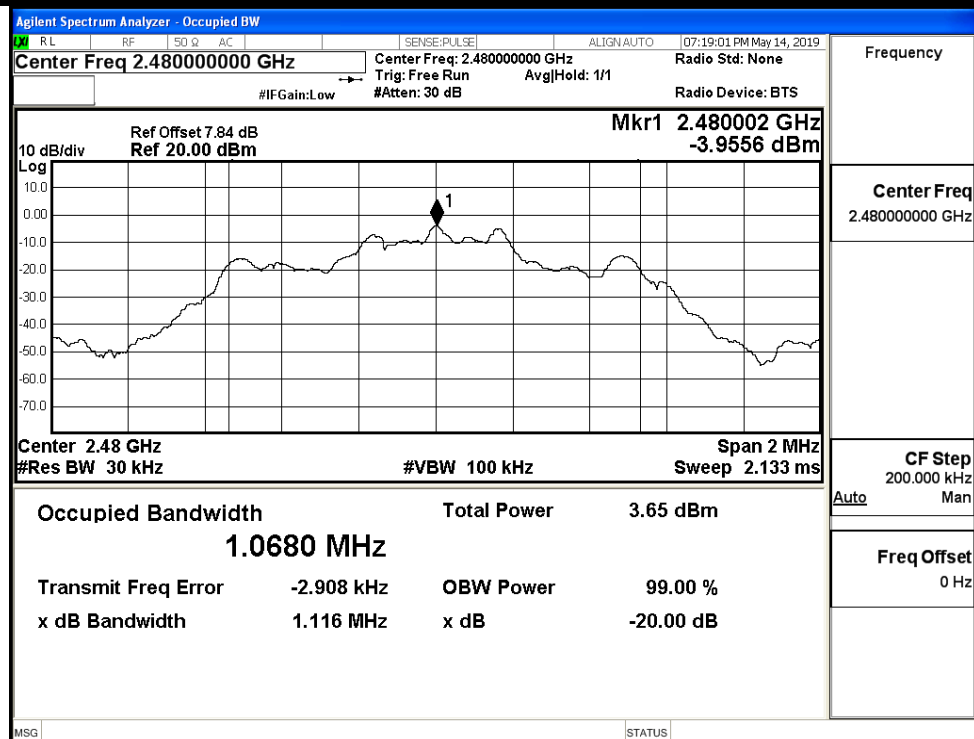
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

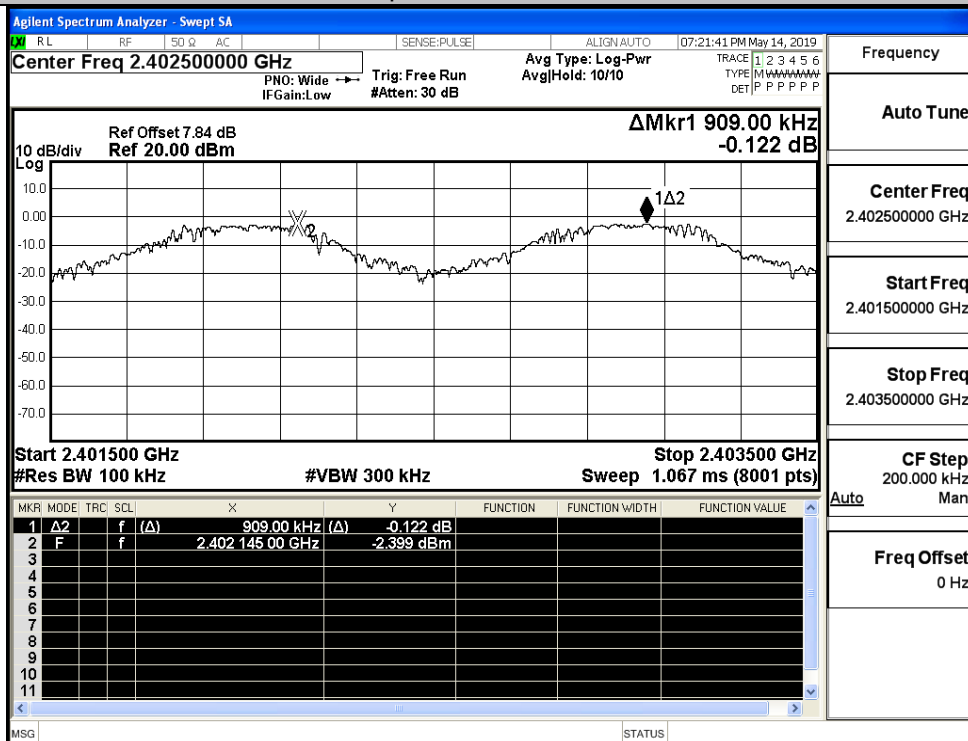


A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.909	0.8309	PASS
	MCH	0.856	0.8306	PASS
	HCH	0.858	0.8293	PASS
$\pi/4$ DQPSK	LCH	1.208	0.745	PASS
	MCH	0.964	0.746	PASS
	HCH	0.822	0.745	PASS
8DPSK	LCH	0.920	0.751	PASS
	MCH	1.314	0.715	PASS
	HCH	0.986	0.744	PASS

Test Graphs

GFSK/LCH

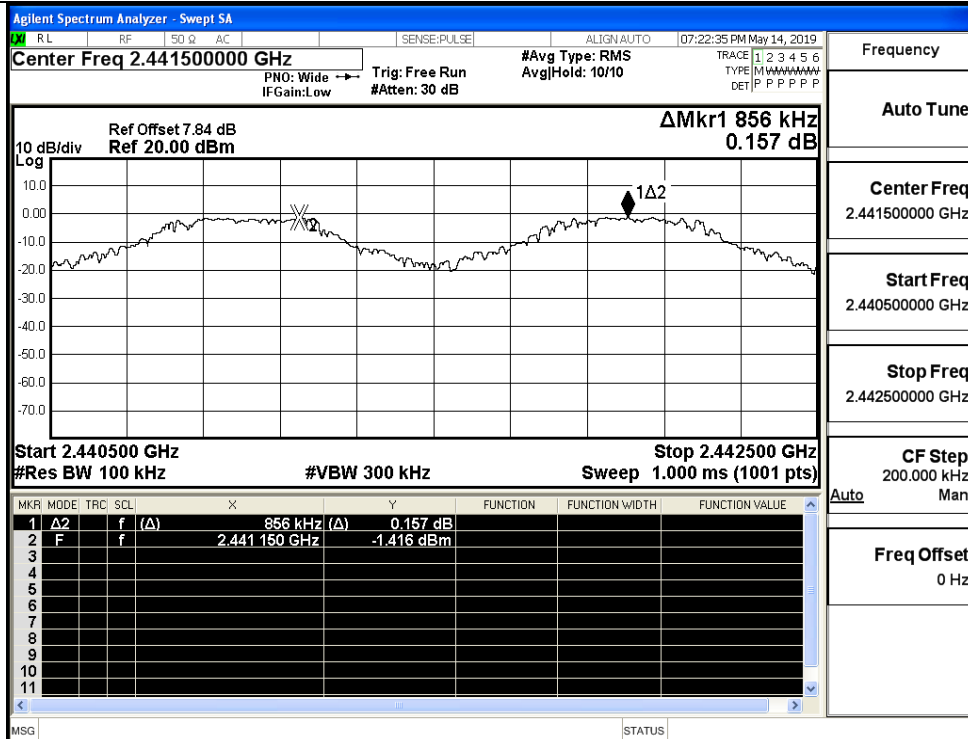


Frequency

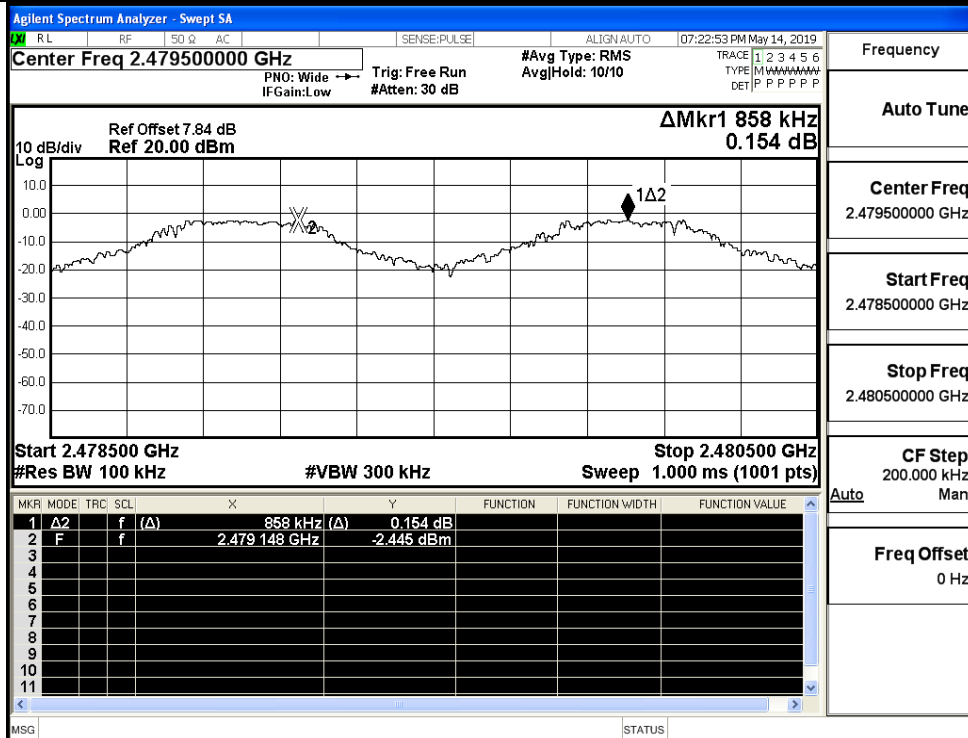
Auto Tune

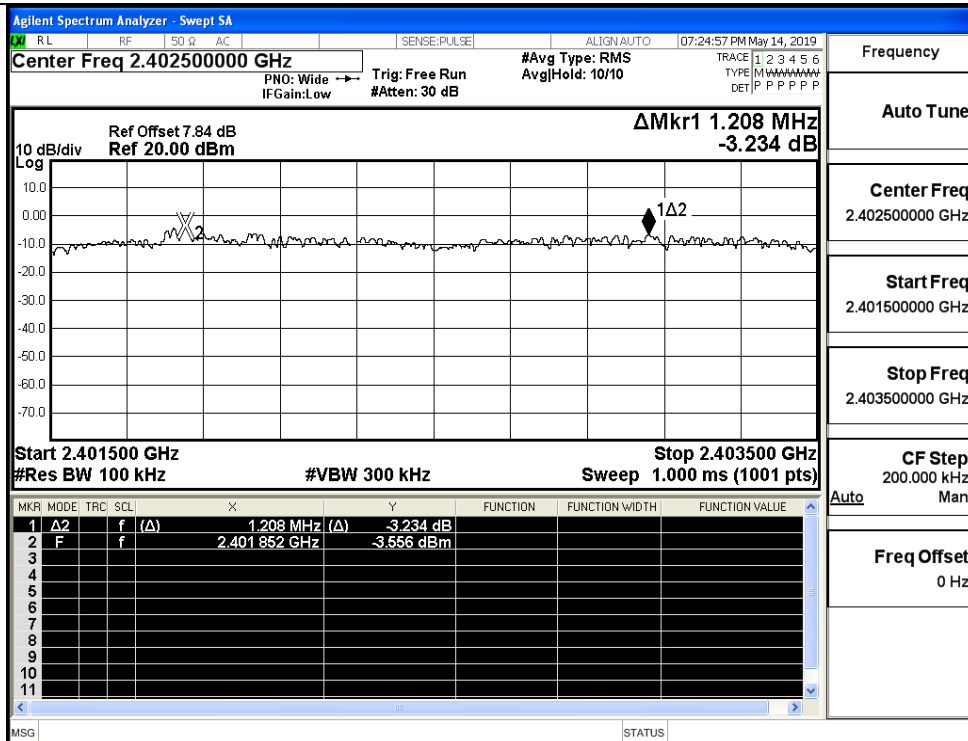
Center Freq
2.402500000 GHzStart Freq
2.401500000 GHzStop Freq
2.403500000 GHzCF Step
200.000 kHz
ManFreq Offset
0 Hz

GFSK/MCH



GFSK/HCH



$\pi/4$ DQPSK/LCH

Frequency

Auto Tune

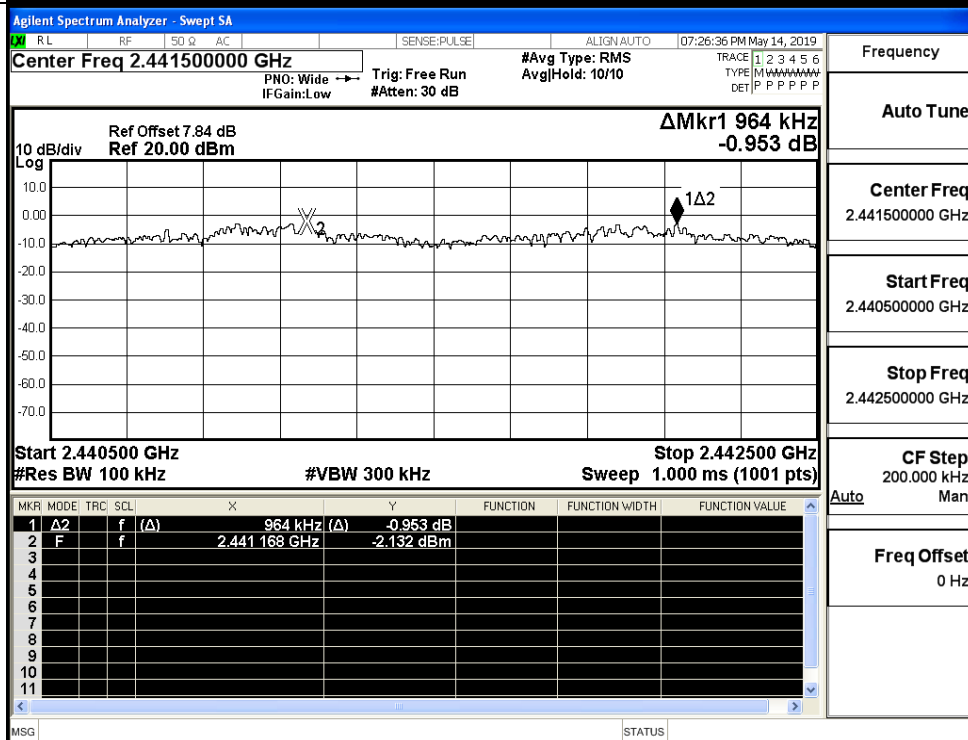
Center Freq
2.402500000 GHz

Start Freq
2.401500000 GHz

Stop Freq
2.403500000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

 $\pi/4$ DQPSK/MCH

Frequency

Auto Tune

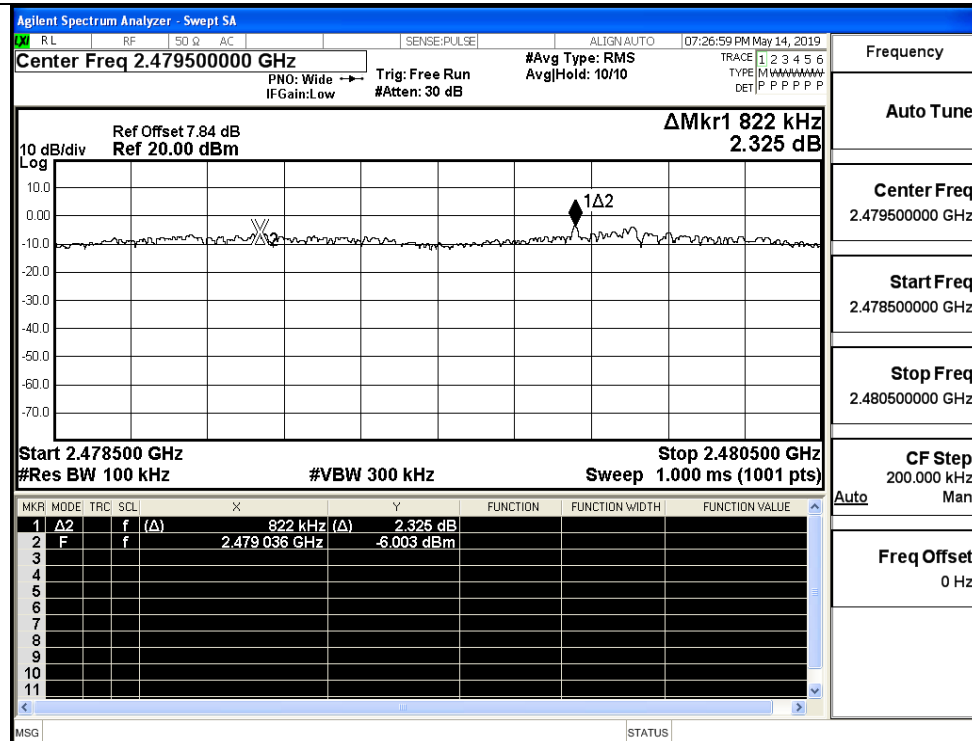
Center Freq
2.441500000 GHz

Start Freq
2.440500000 GHz

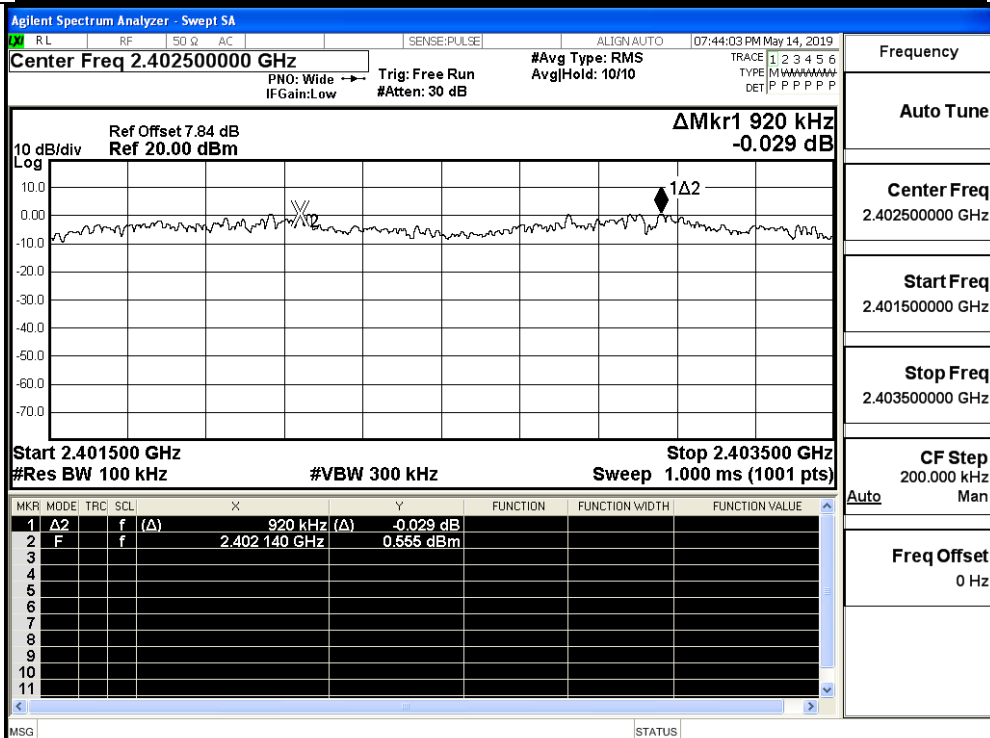
Stop Freq
2.442500000 GHz

CF Step
200.000 kHz
Man

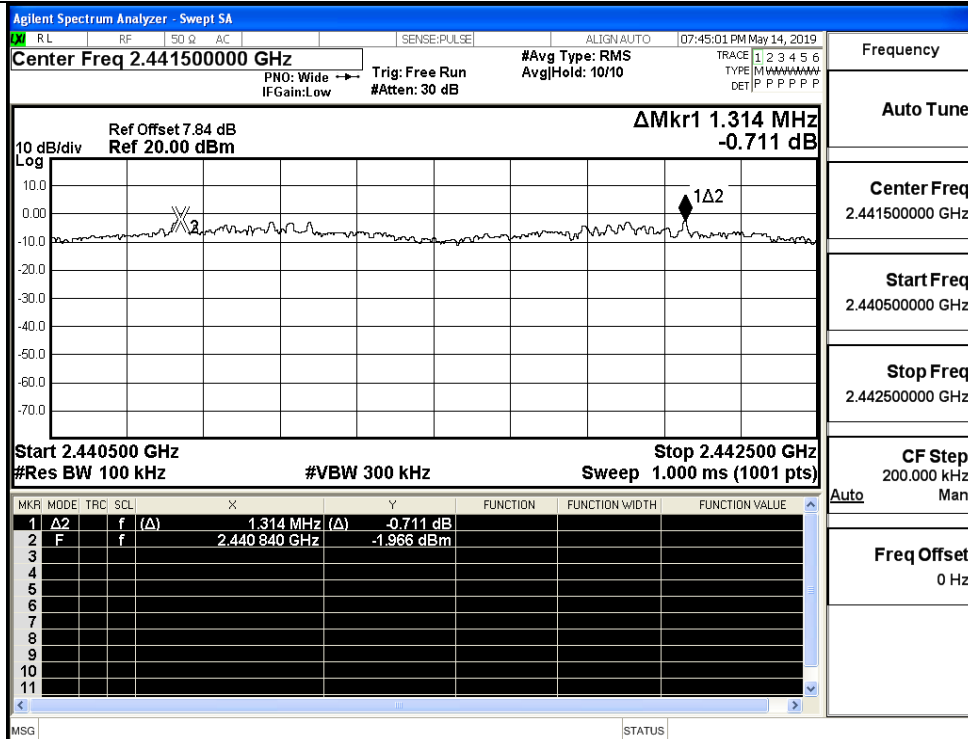
Freq Offset
0 Hz

$\pi/4$ DQPSK/HCH

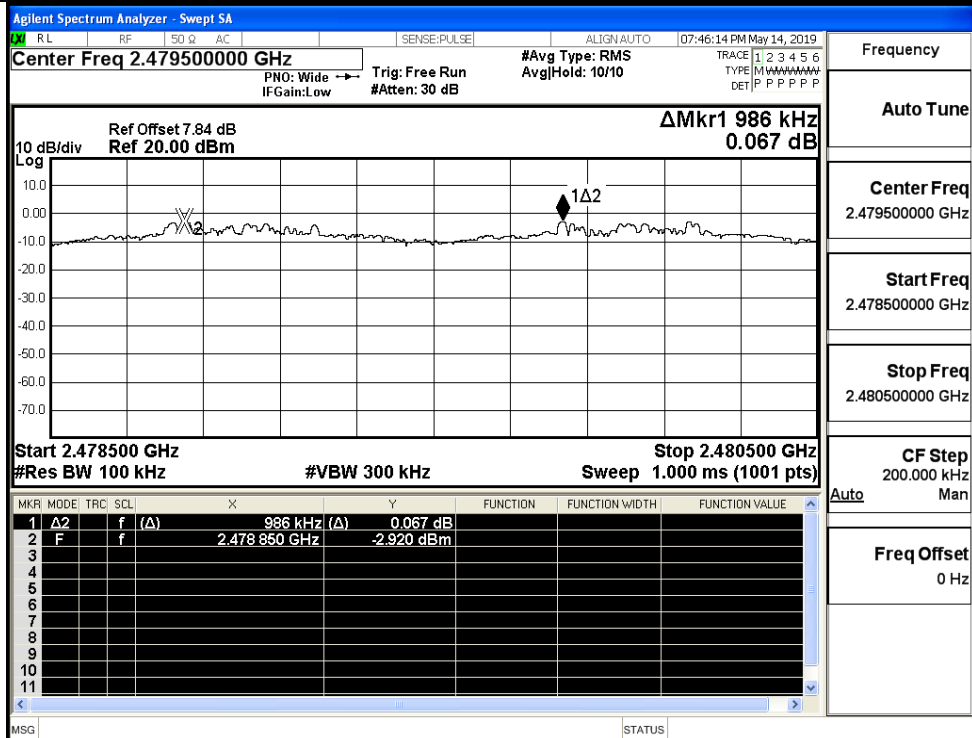
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

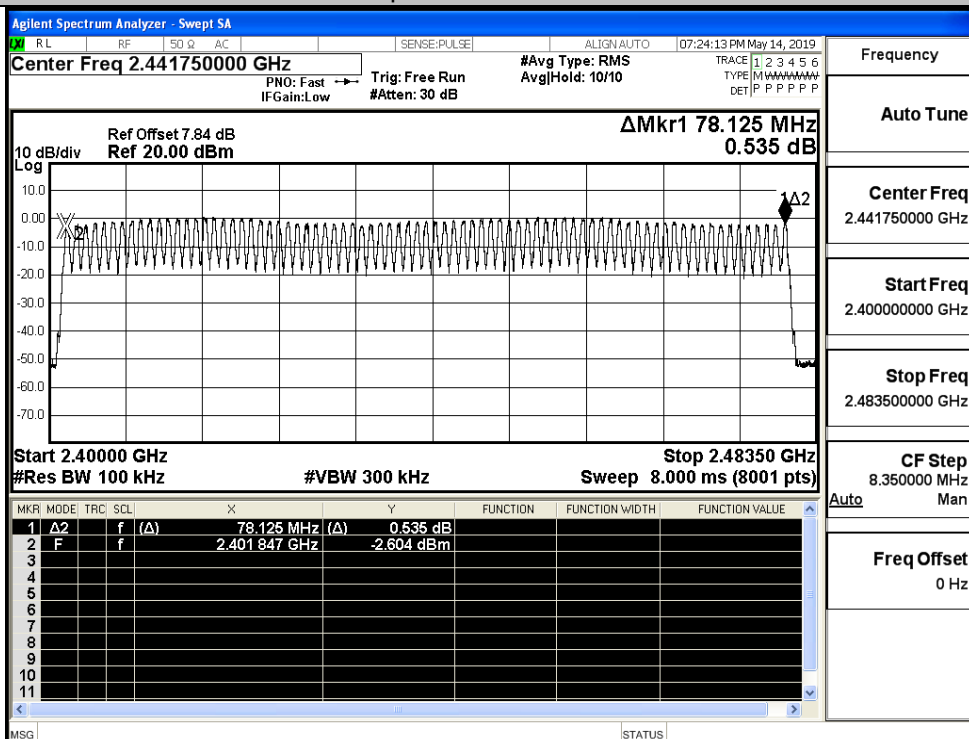


A.4 Hopping Channel Number

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

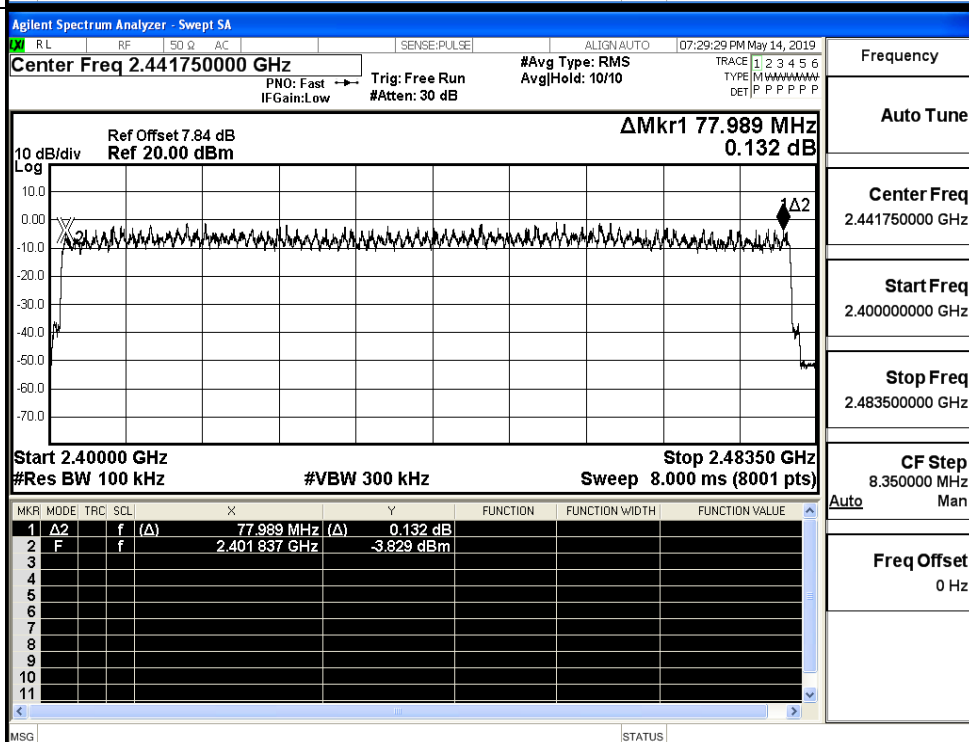
Test Graphs

GFSK/Hop



Frequency

Auto Tune

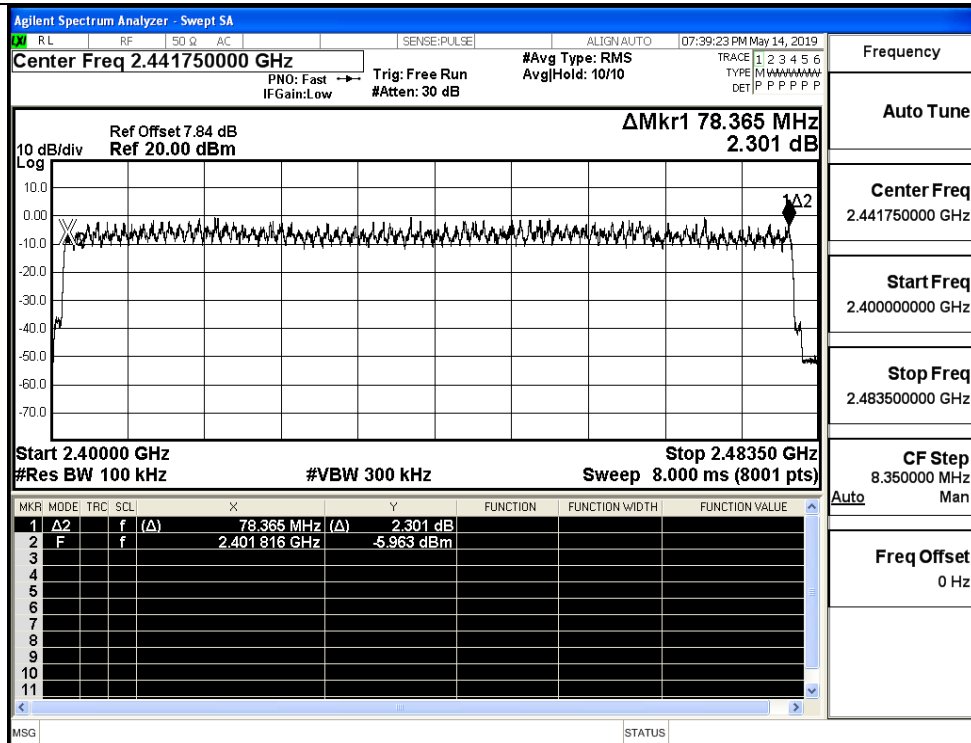
Center Freq
2.441750000 GHzStart Freq
2.400000000 GHzStop Freq
2.483500000 GHzCF Step
8.350000 MHz
ManFreq Offset
0 Hz $\pi/4$ DQPSK/Hop

Frequency

Auto Tune

Center Freq
2.441750000 GHzStart Freq
2.400000000 GHzStop Freq
2.483500000 GHzCF Step
8.350000 MHz
ManFreq Offset
0 Hz

8DPSK/Hop

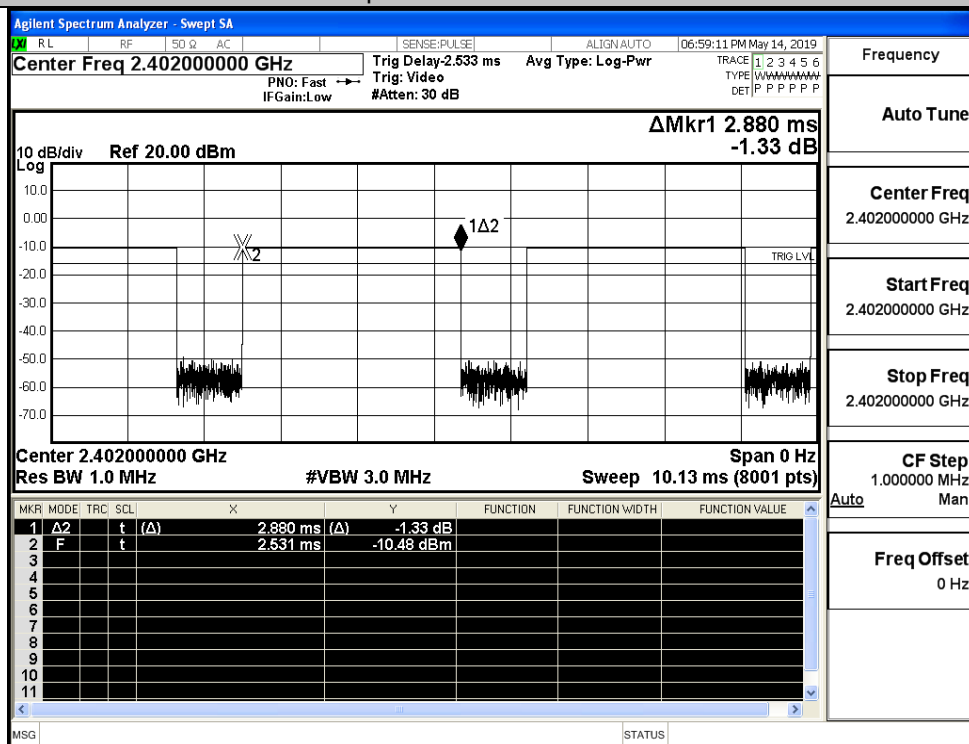


A.5 Dwell Time

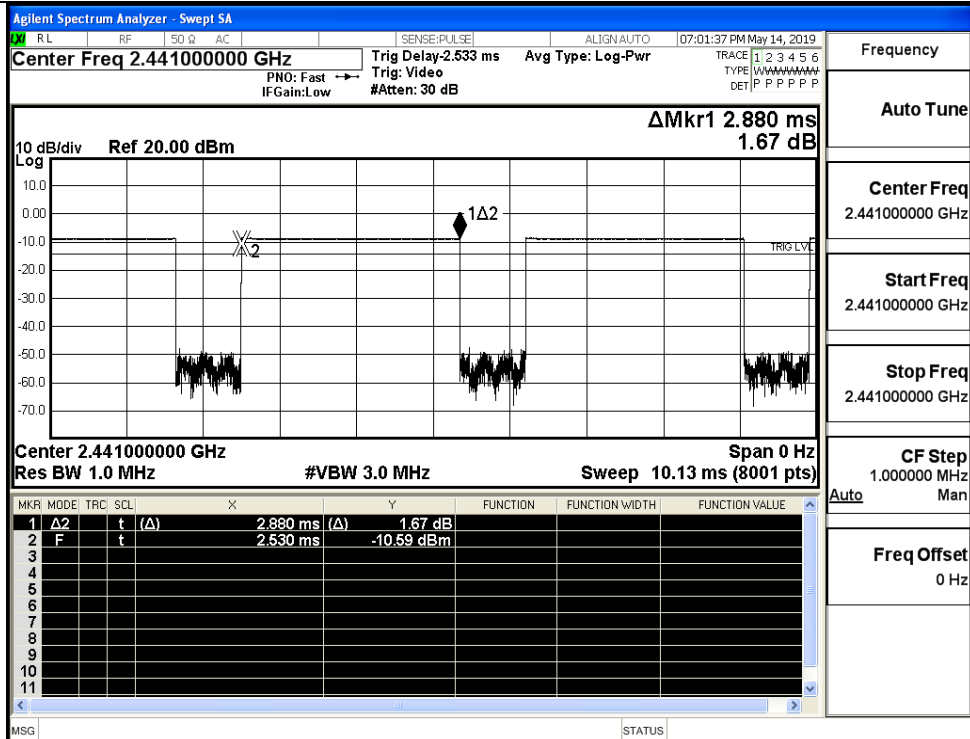
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.89	106.7	0.308	0.4	PASS
	3DH5	MCH	2.89	106.7	0.308	0.4	PASS
	3DH5	HCH	2.89	106.7	0.308	0.4	PASS

Test Graphs

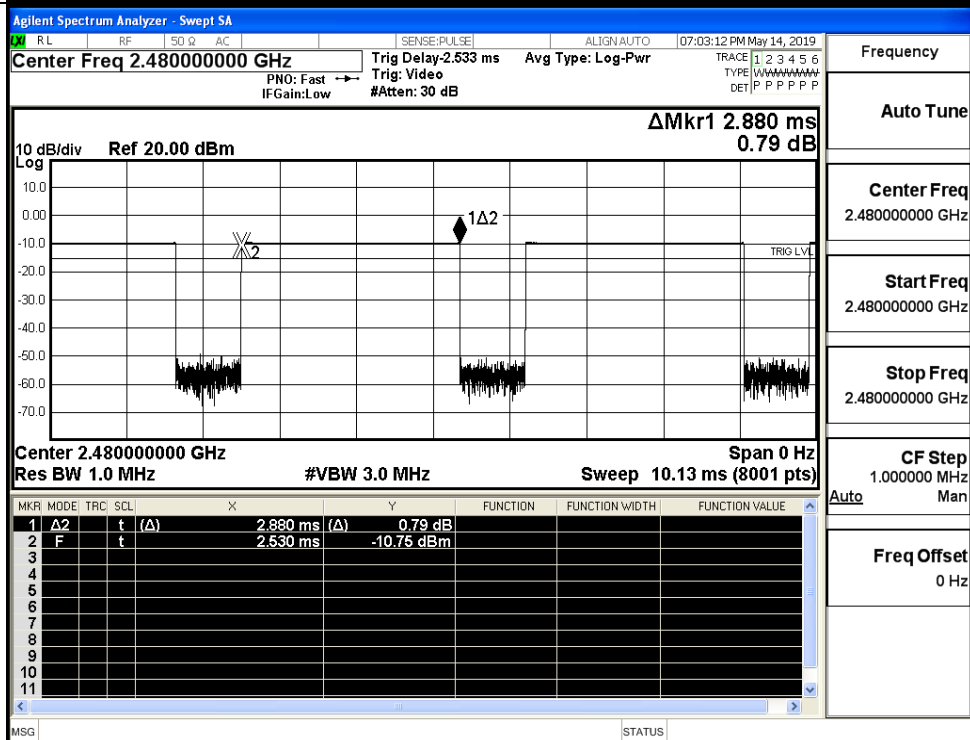
GFSK_DH5/LCH



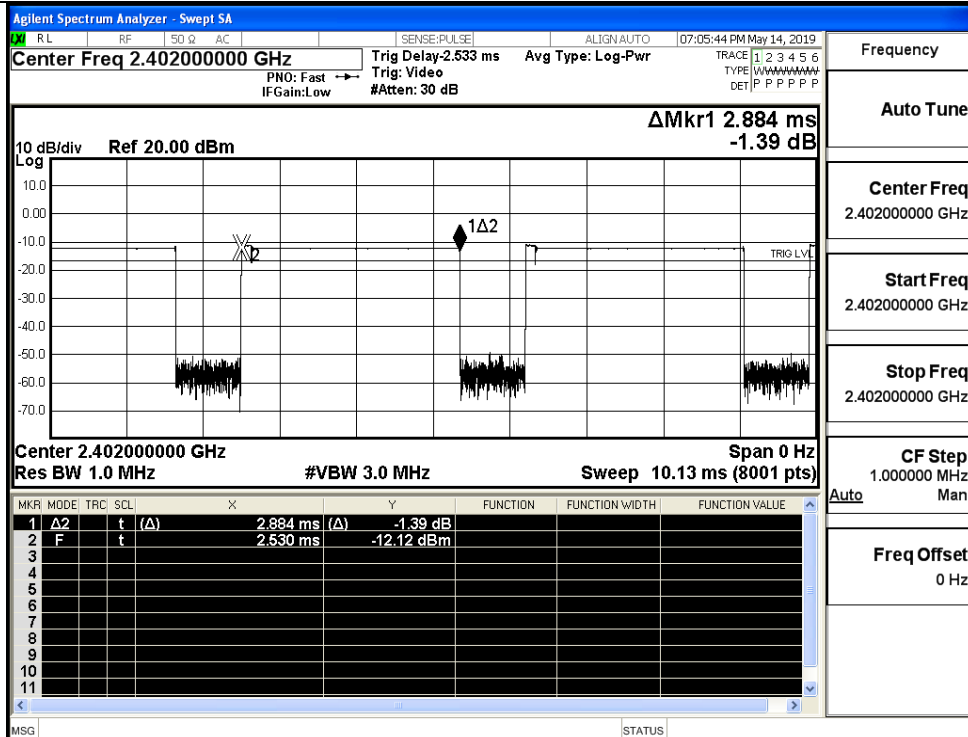
GFSK_DH5/MCH



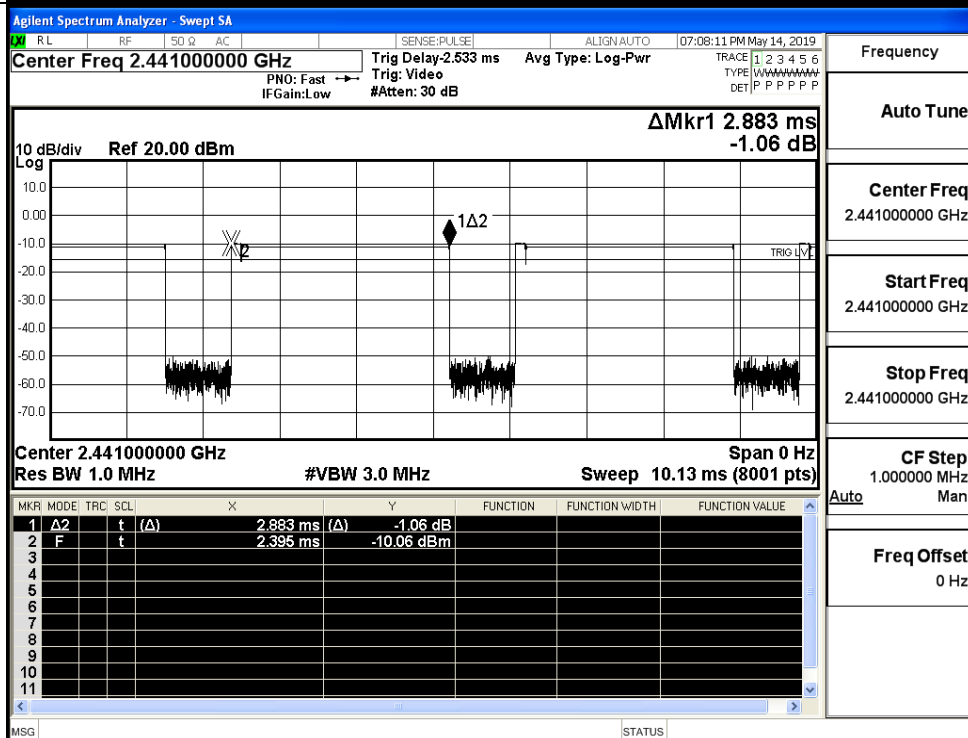
GFSK_DH5/HCH



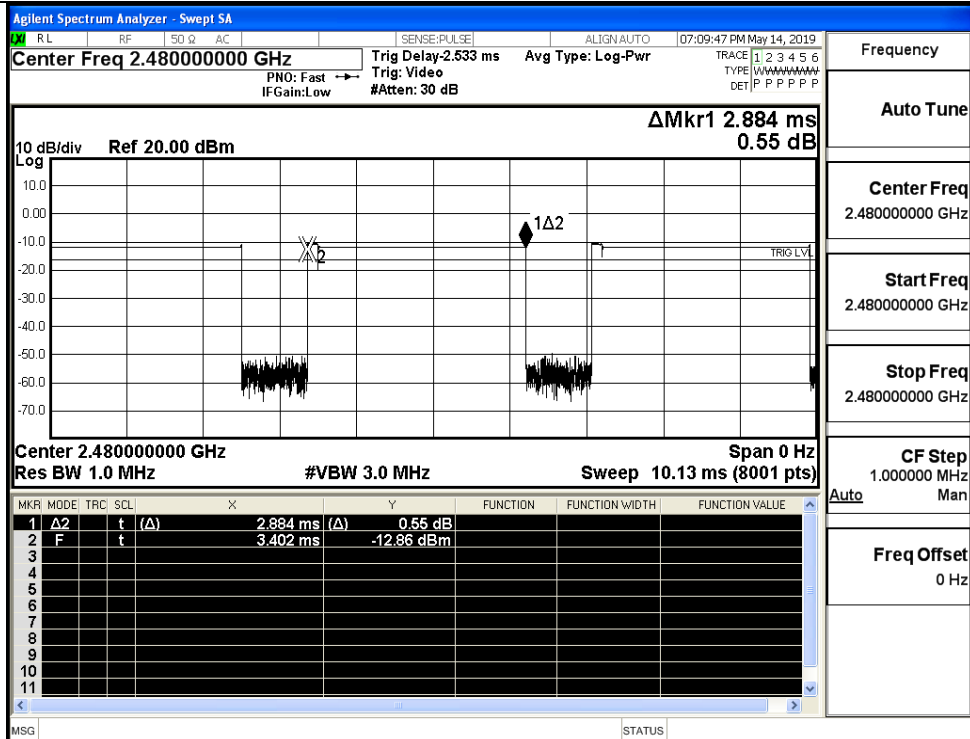
$\pi/4$ DQPSK
_2DH5/LCH



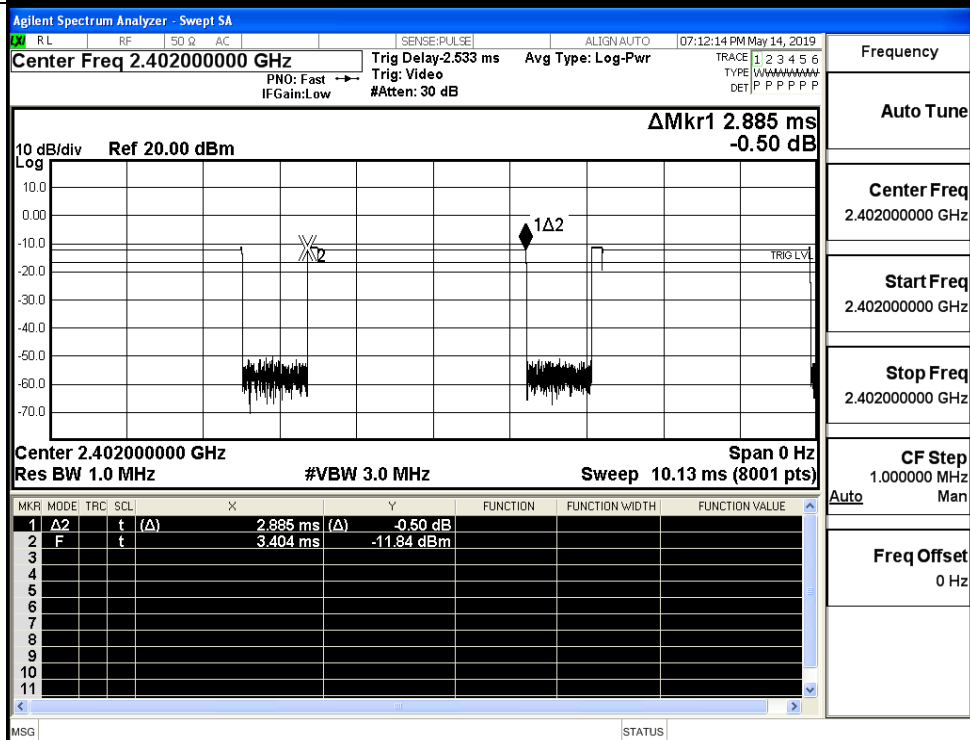
$\pi/4$ DQPSK
_2DH5/MCH



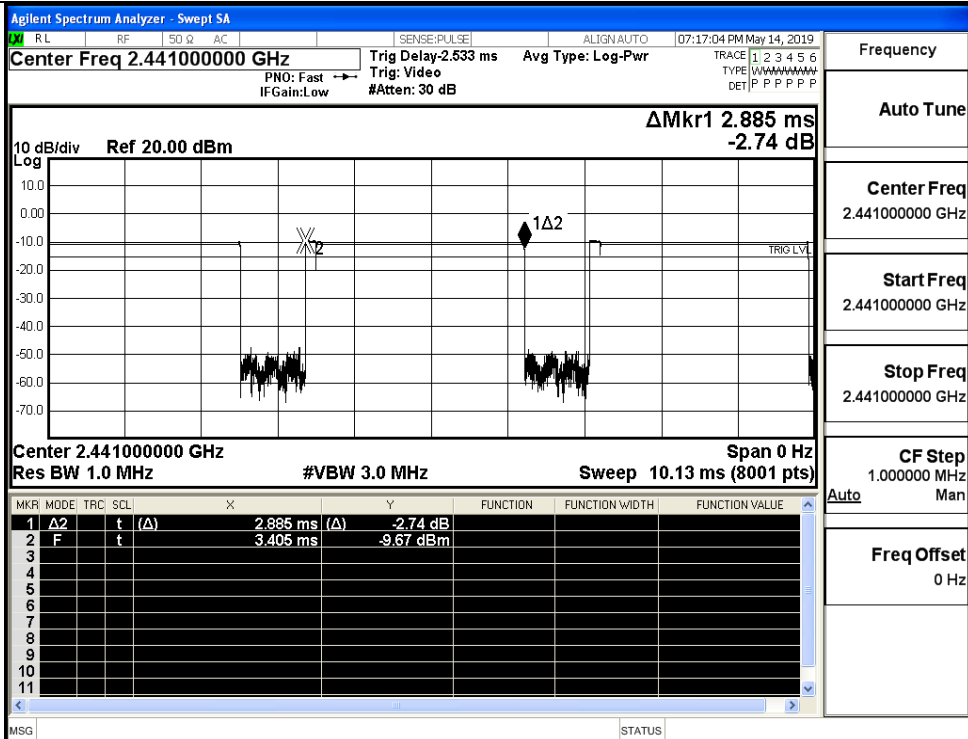
$\pi/4$ DQPSK
_2DH5/HCH



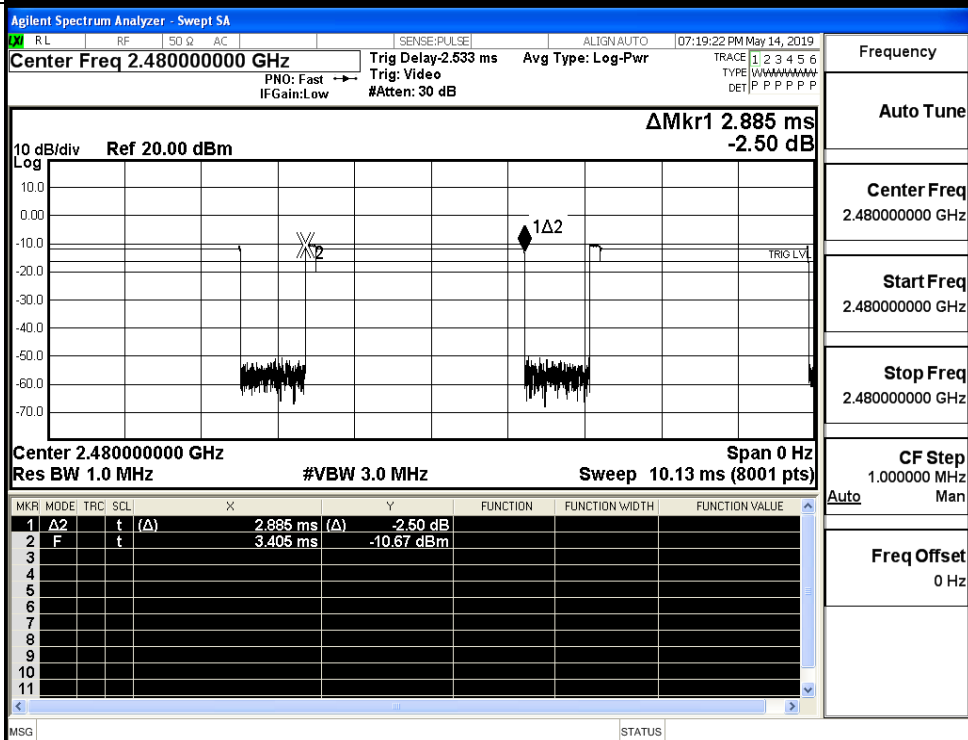
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



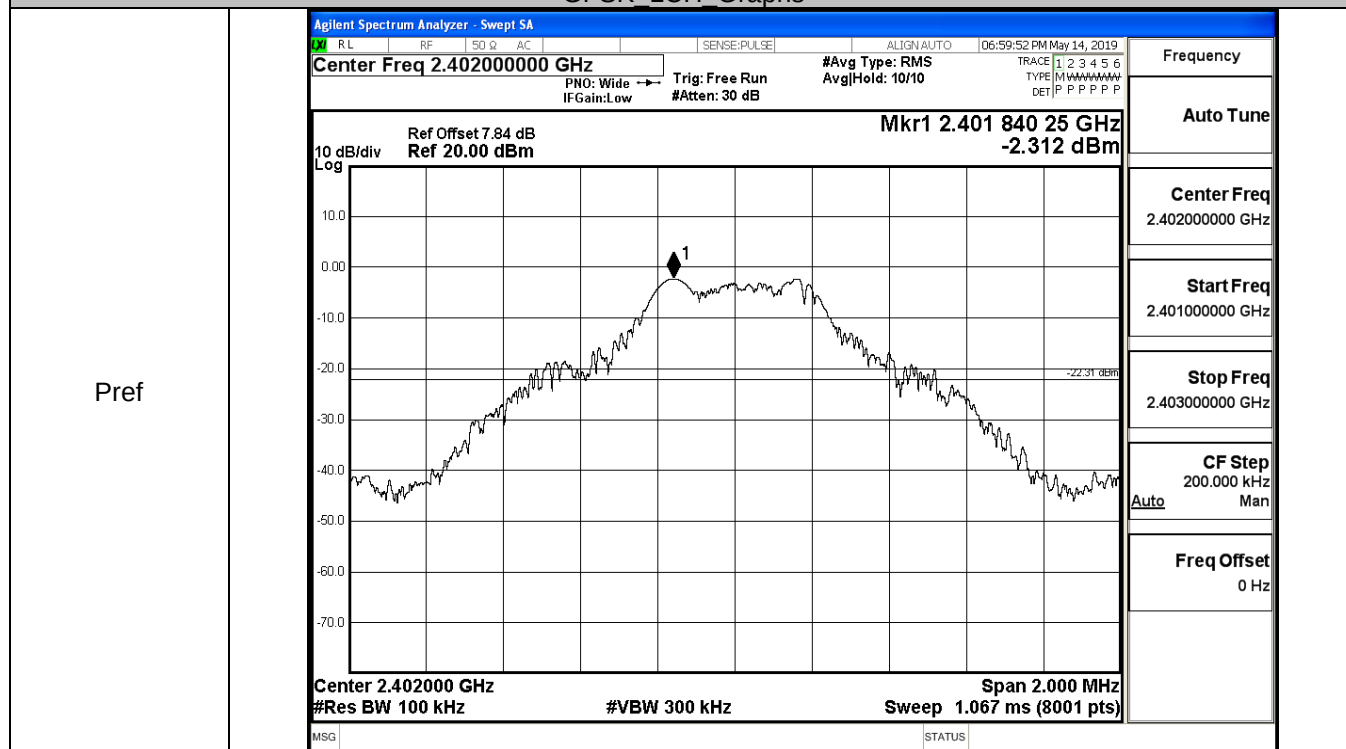
8DPSK_3DH5/HCH



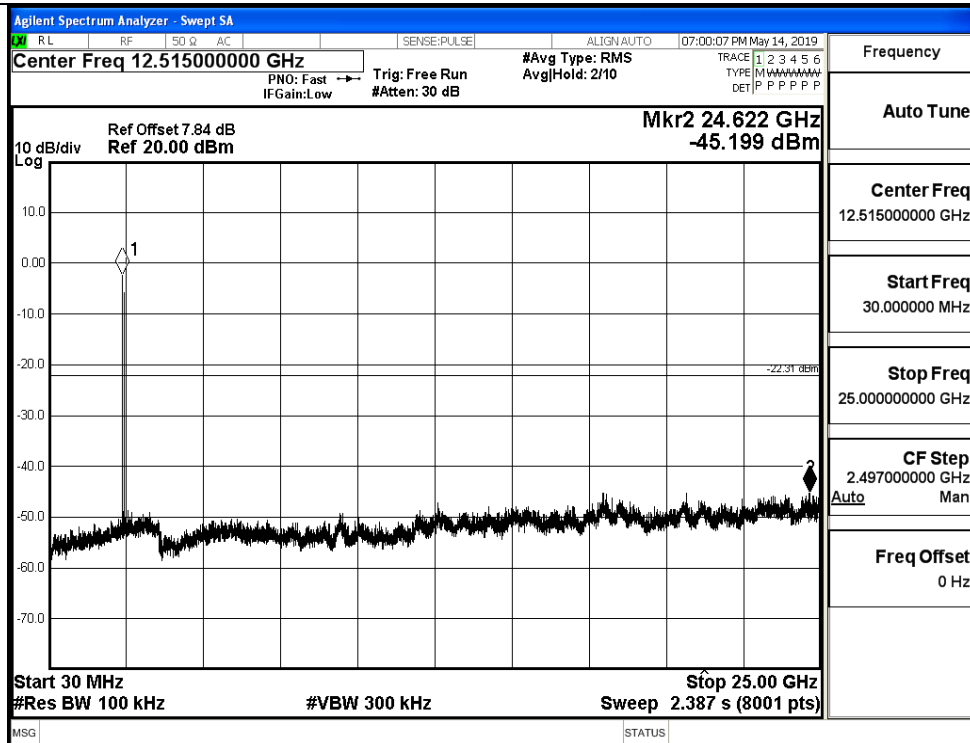
A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-2.312	-45.199	-22.312	PASS
	MCH	-0.83	-45.123	-20.830	PASS
	HCH	-1.682	-42.800	-21.682	PASS
$\pi/4$ DQPSK	LCH	-3.309	-43.268	-23.309	PASS
	MCH	-1.962	-44.353	-21.962	PASS
	HCH	-3.185	-44.756	-23.185	PASS
8DPSK	LCH	-3.371	-44.677	-23.371	PASS
	MCH	-1.769	-44.537	-21.769	PASS
	HCH	-2.81	-45.172	-22.810	PASS

GFSK LCH Graphs

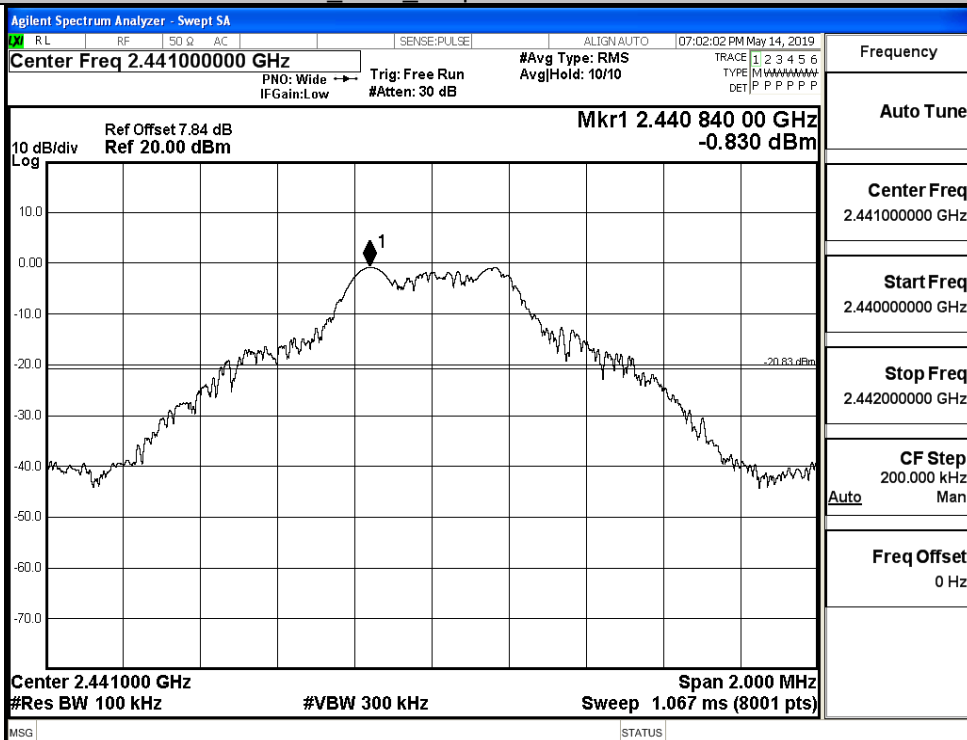


Puw

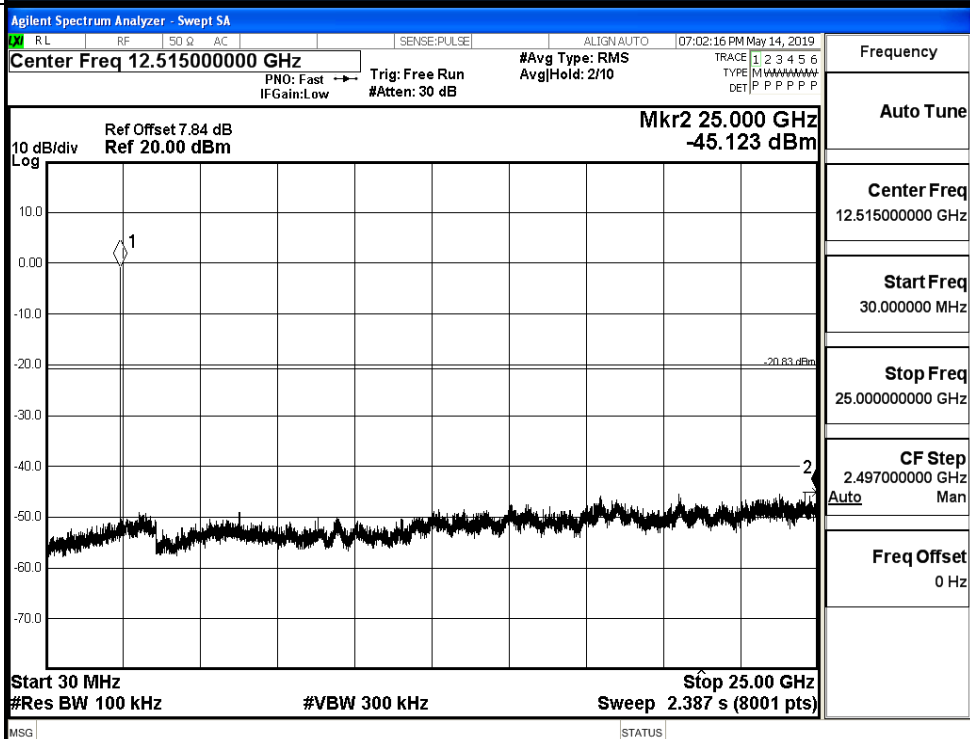


GFSK_MCH_Graphs

Pref

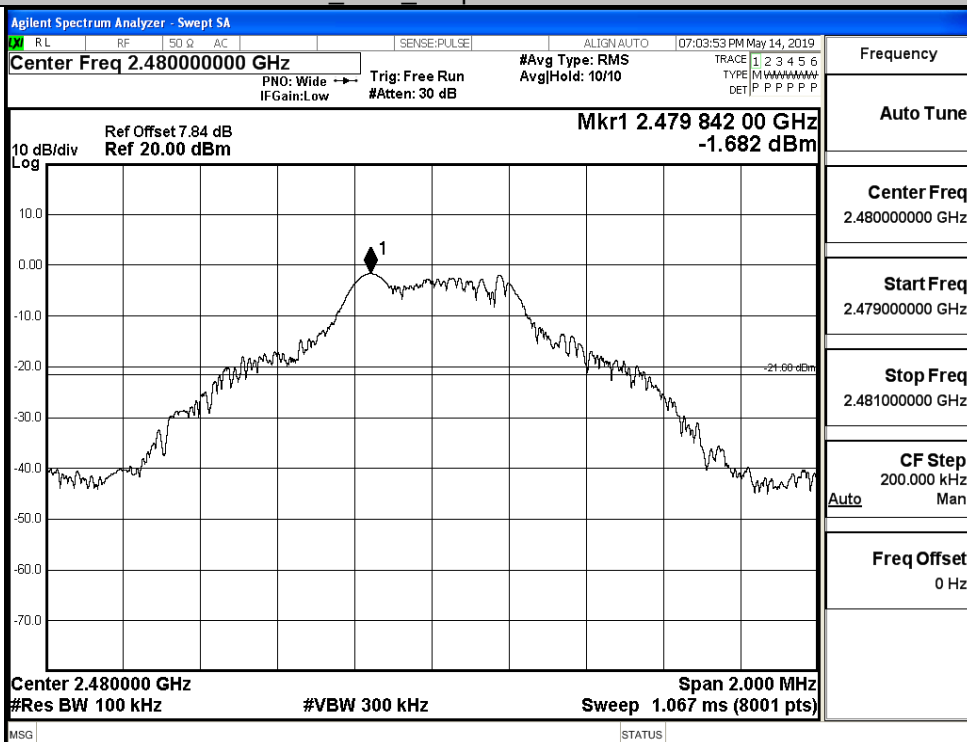


Puw

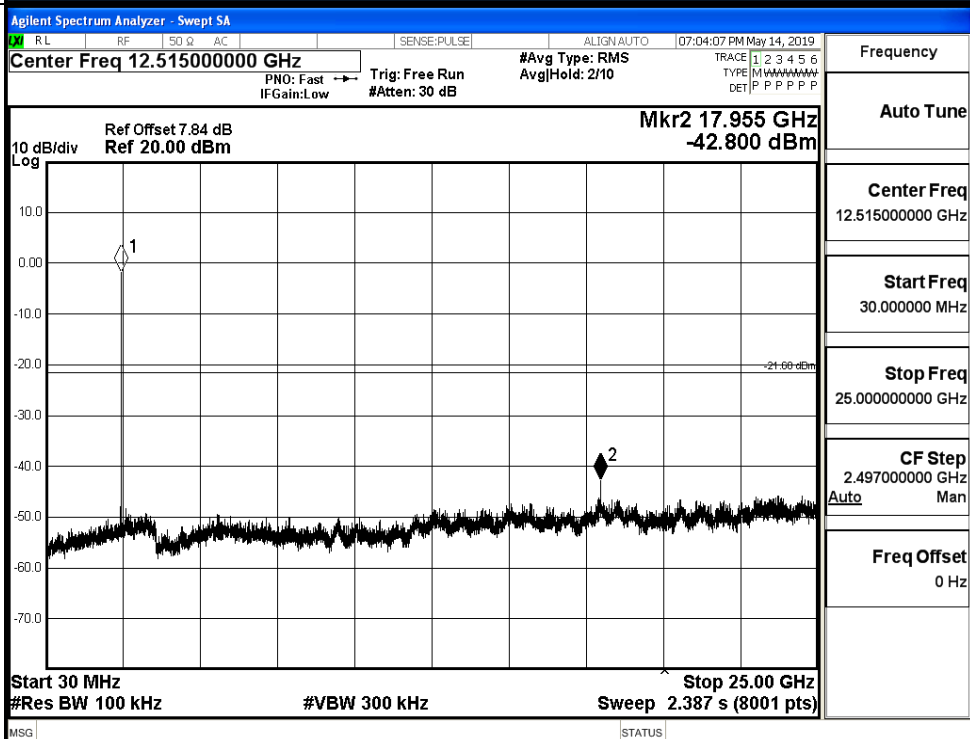


GFSK_HCH_Graphs

Pref

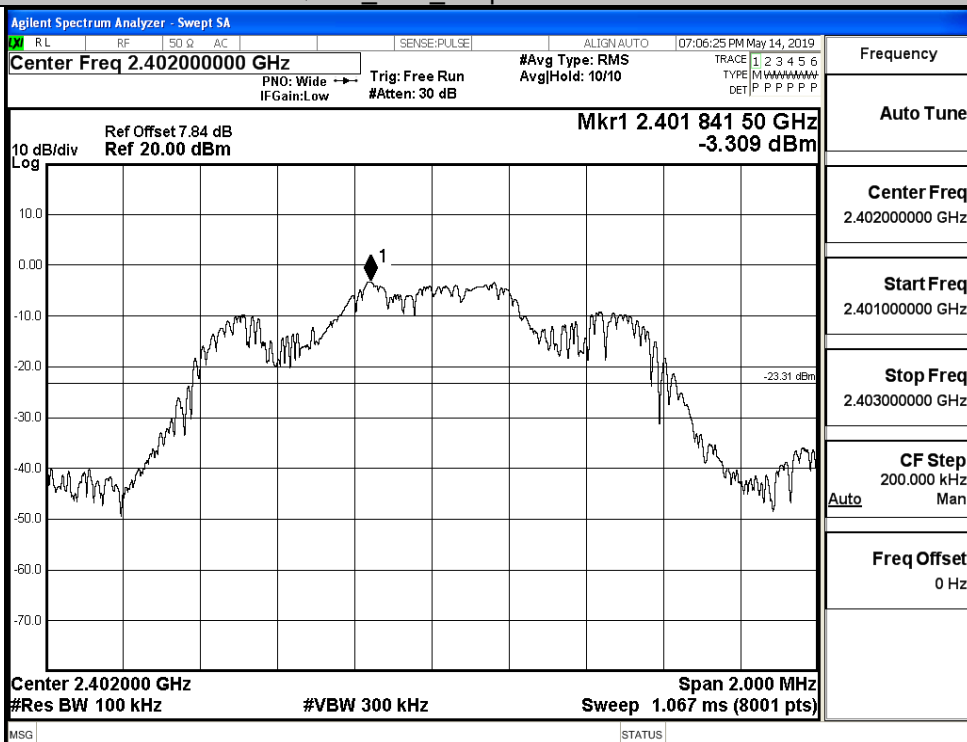


Puw

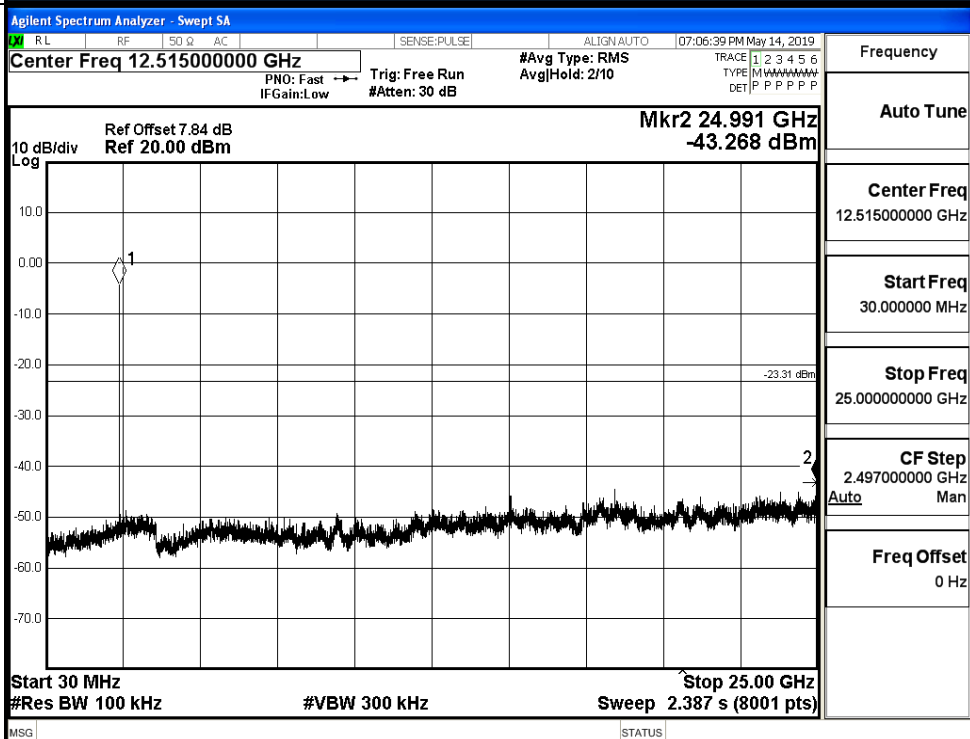


$\pi/4$ DQPSK_LCH_Graphs

Pref

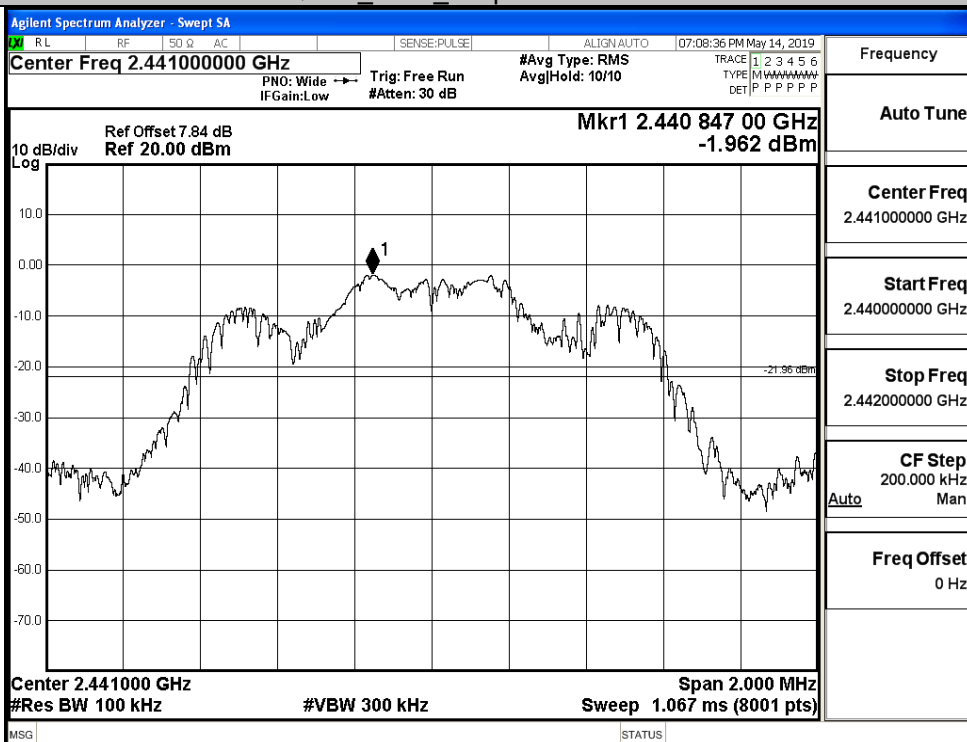


Puw

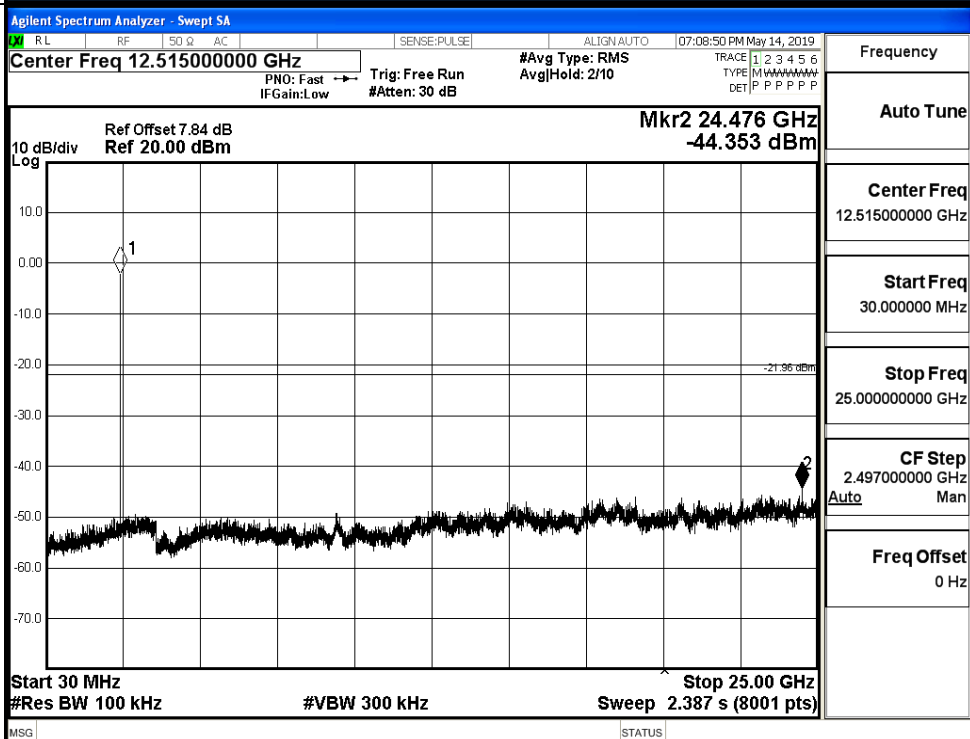


$\pi/4$ DQPSK_MCH_Graphs

Pref

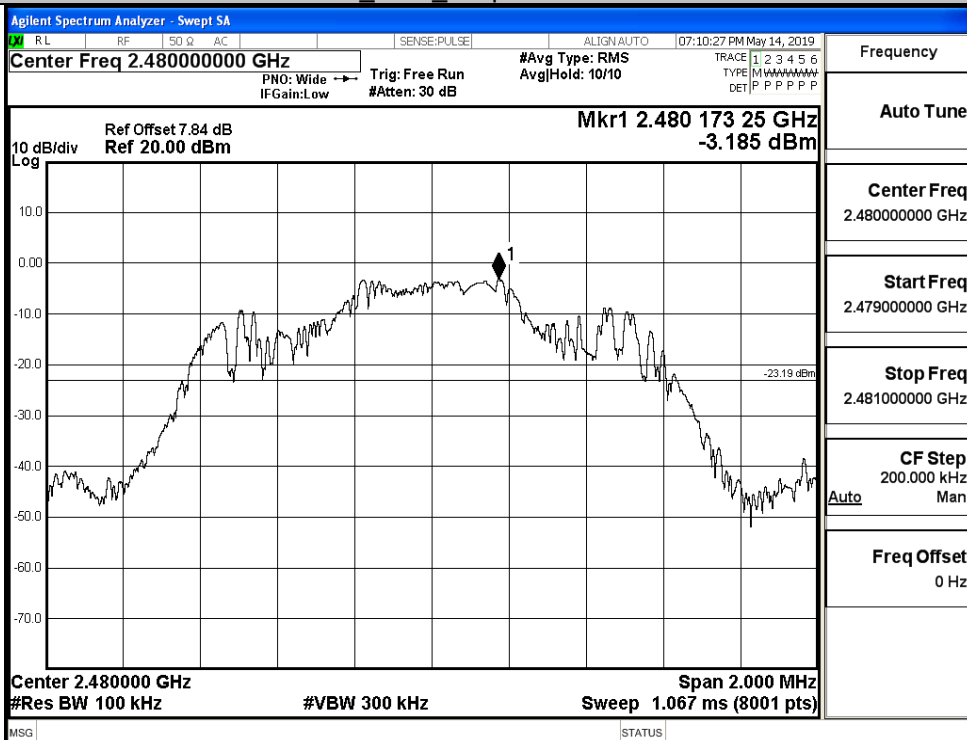


Puw

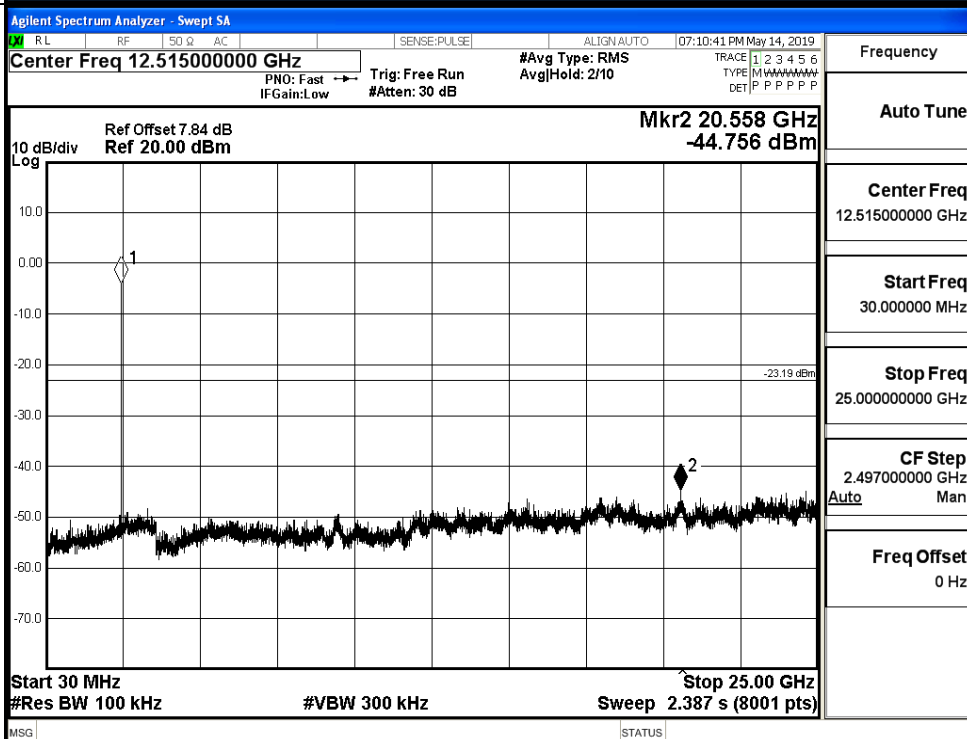


$\pi/4$ DQPSK_HCH_Graphs

Pref

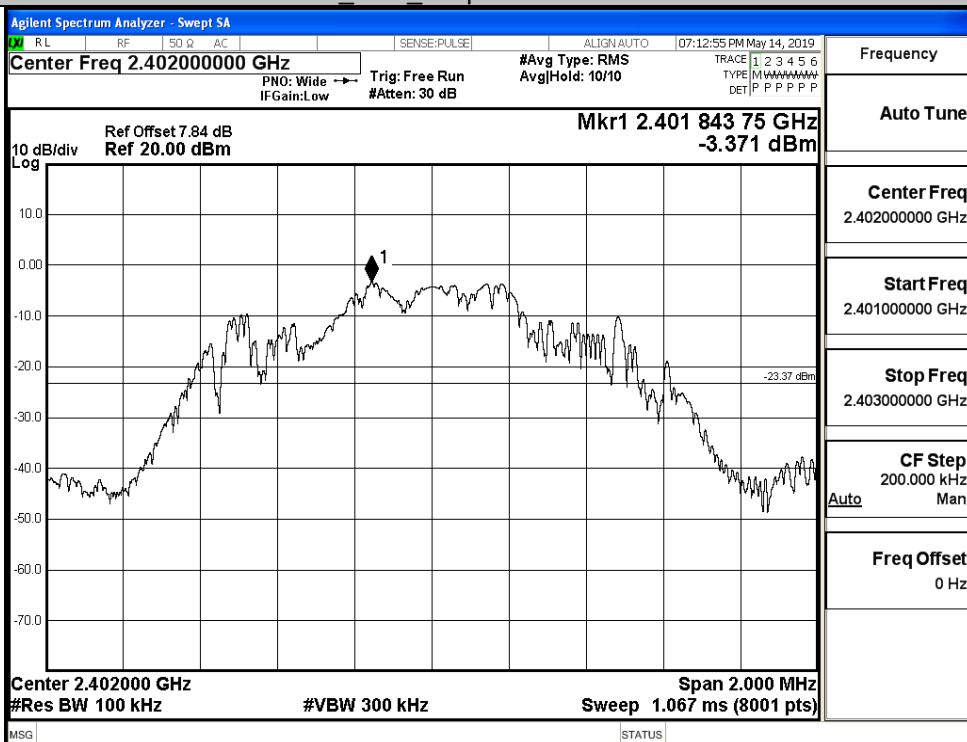


Puw

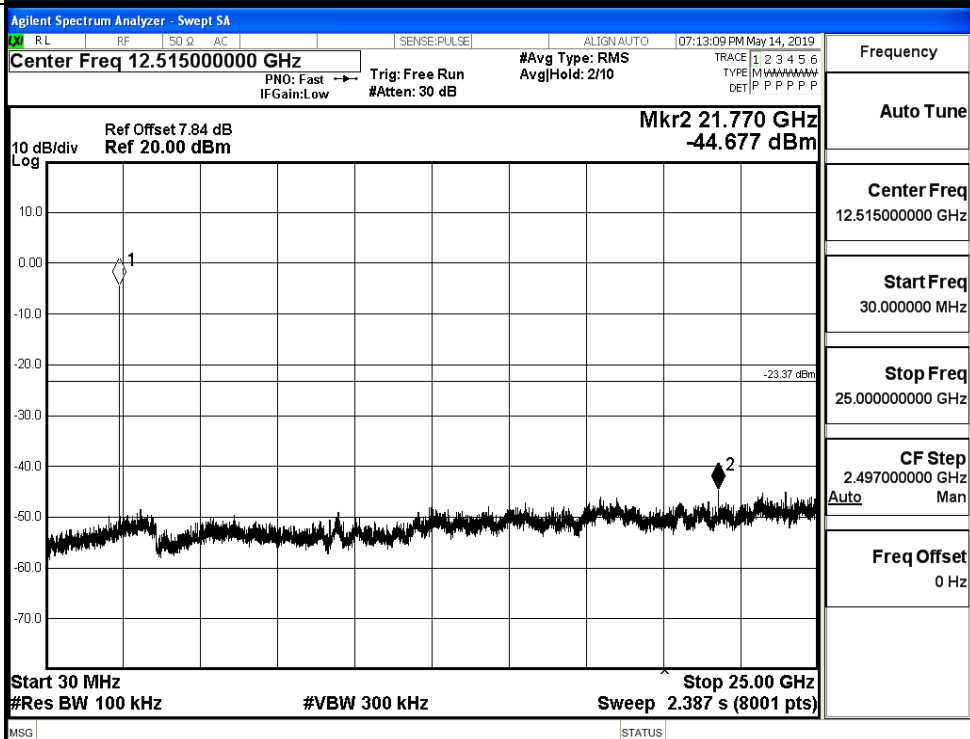


8DPSK_LCH_Graphs

Pref

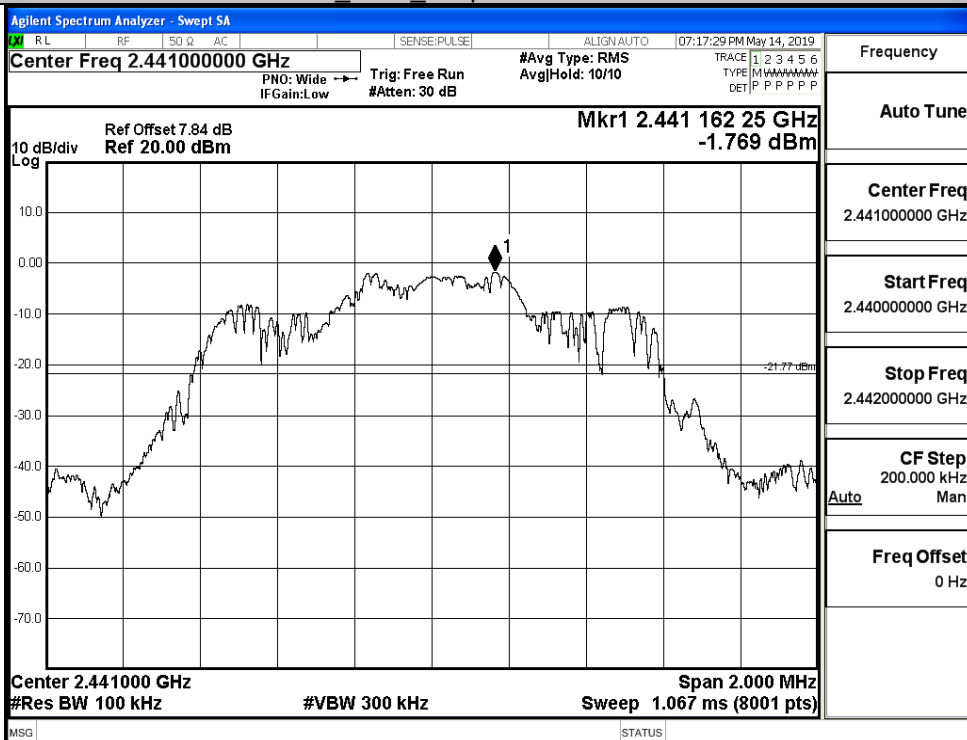


Puw

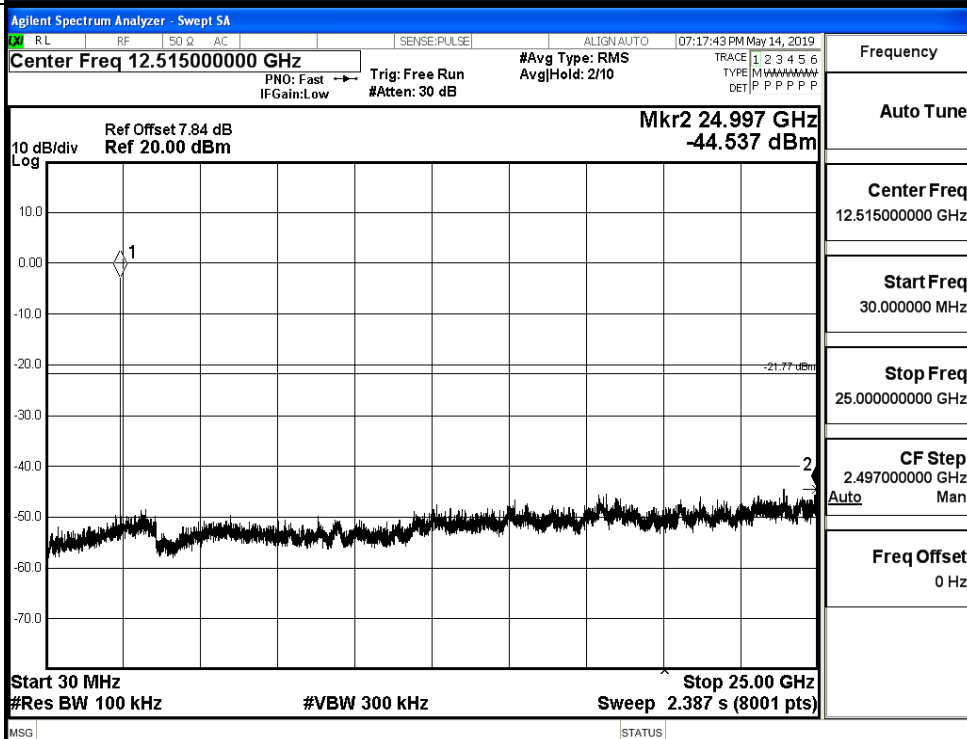


8DPSK_MCH_Graphs

Pref

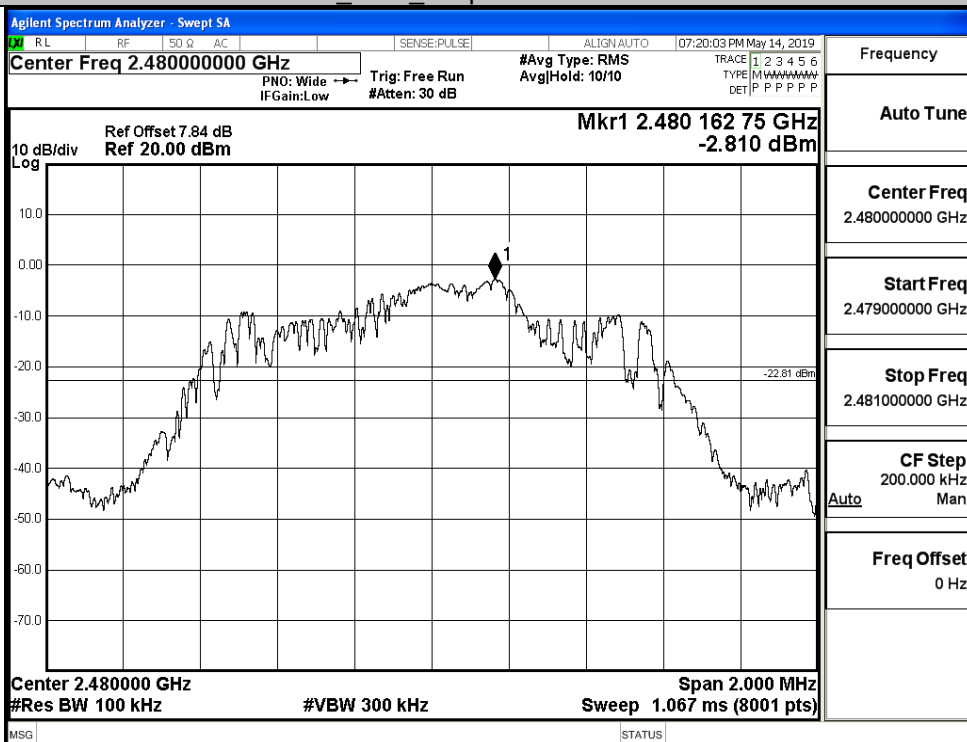


Puw

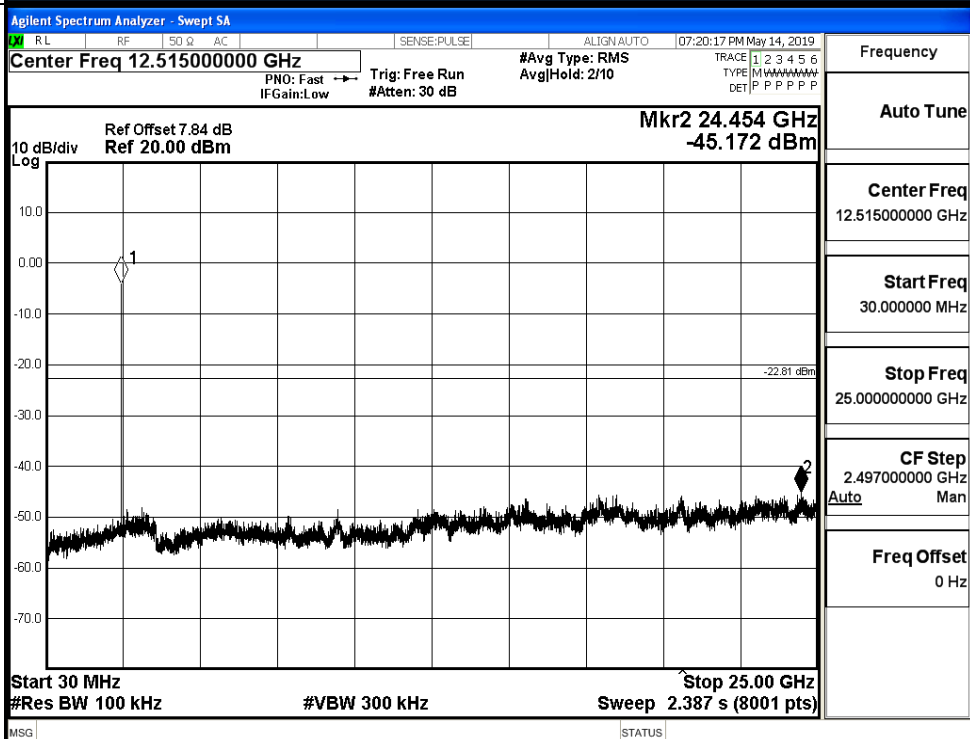


8DPSK_HCH_Graphs

Pref



Puw

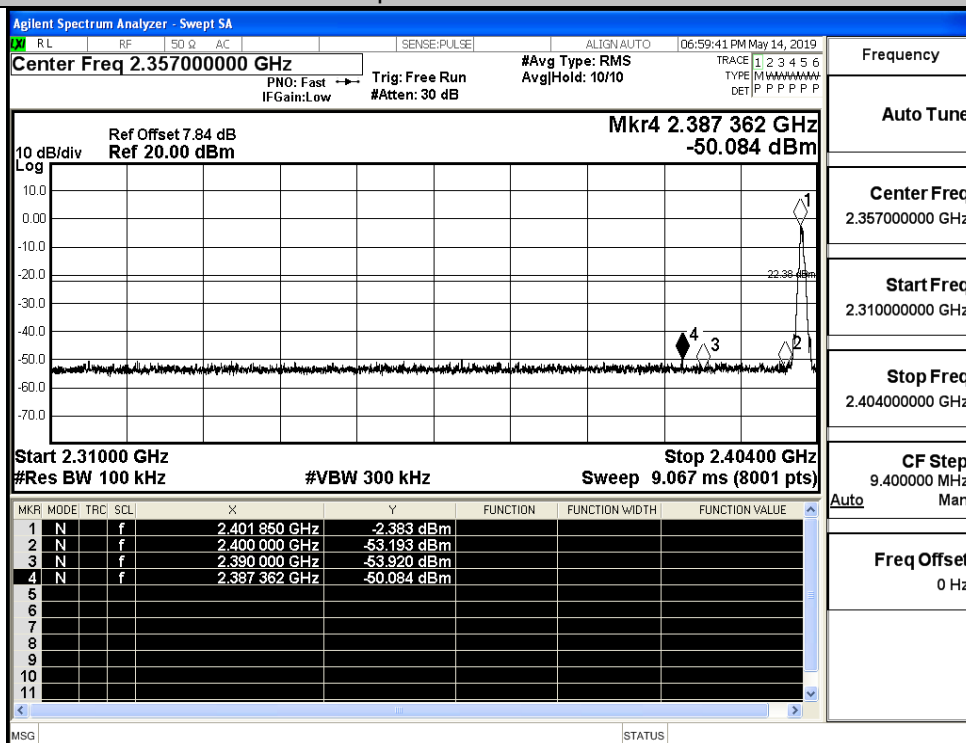


A.7 Band-edge for RF Conducted Emissions

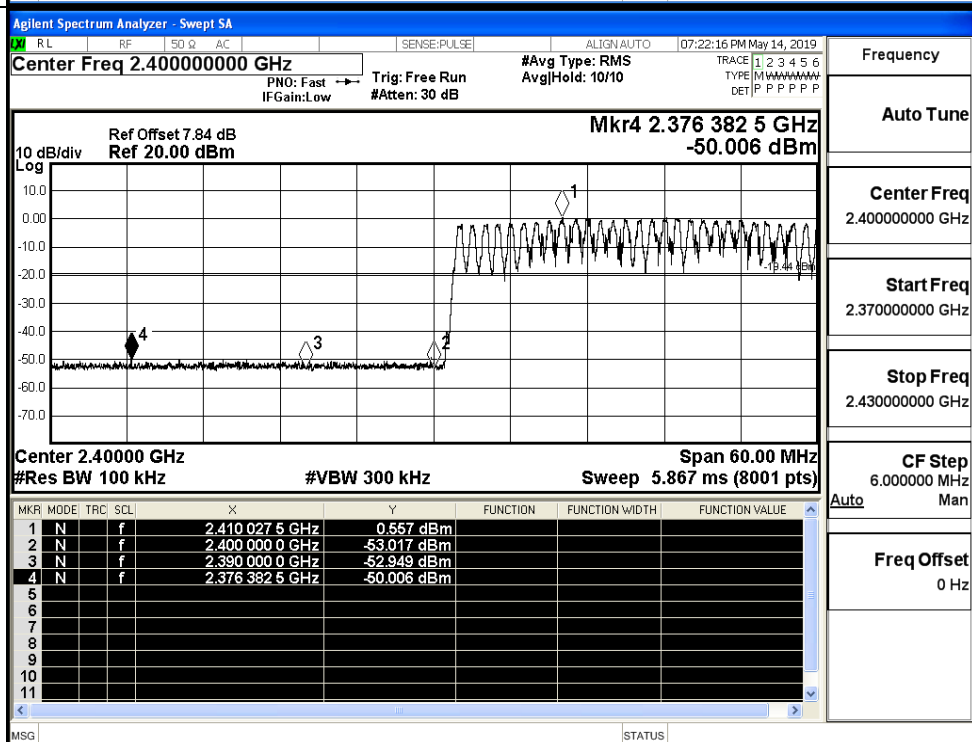
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-2.383	Off	-50.084	-22.38	PASS
			0.557	On	-50.006	-19.44	PASS
	HCH	2480	-1.697	Off	-50.184	-21.7	PASS
			0.153	On	-49.548	-19.85	PASS
$\pi/4$ DQPSK	LCH	2402	-4.275	Off	-50.223	-24.28	PASS
			-1.240	On	-49.772	-21.24	PASS
	HCH	2480	-2.716	Off	-49.759	-22.72	PASS
			-1.117	On	-42.873	-21.12	PASS
8DPSK	LCH	2402	-3.342	Off	-49.079	-23.34	PASS
			-1.219	On	-50.110	-21.22	PASS
	HCH	2480	-2.759	Off	-49.934	-22.76	PASS
			-0.959	On	-49.329	-20.96	PASS

Test Graphs

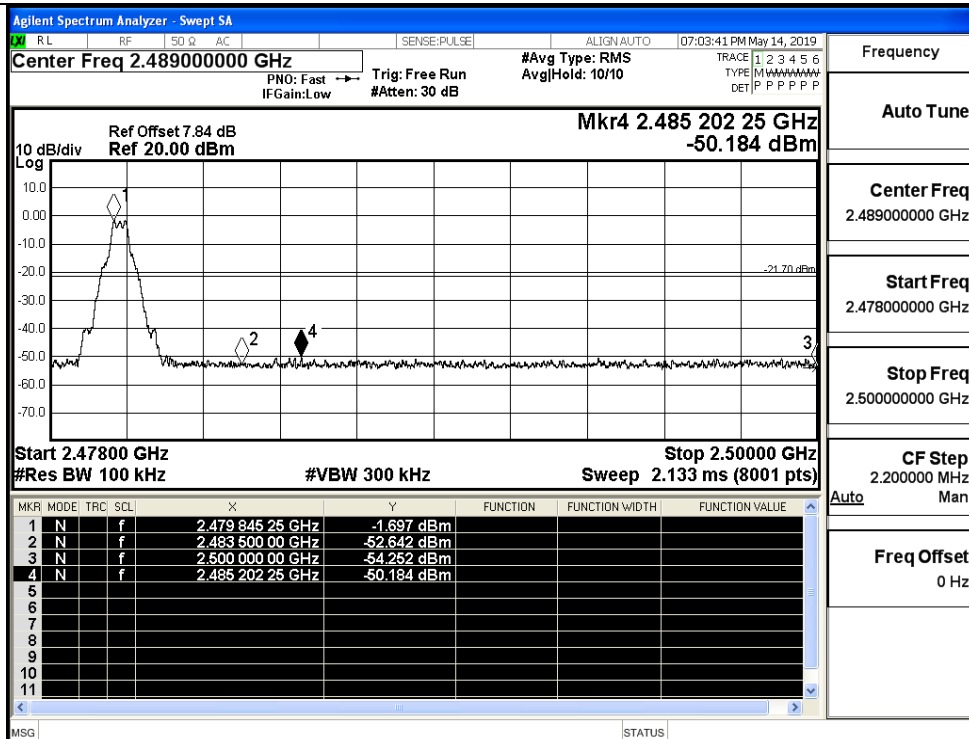
GFSK/LCH/No Hop



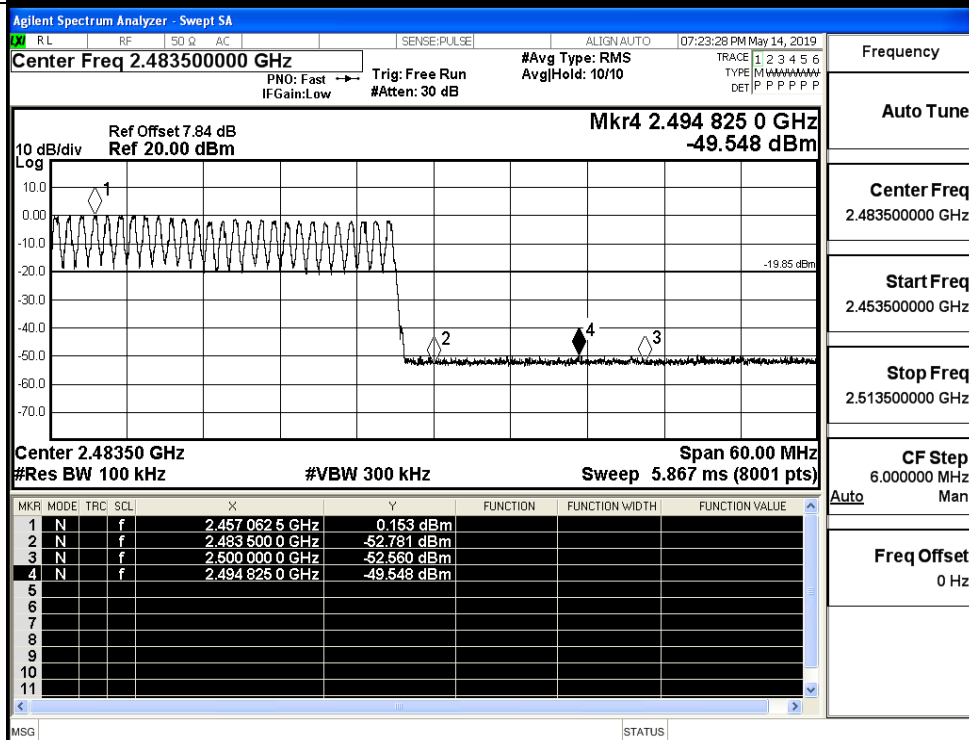
GFSK/LCH/Hop



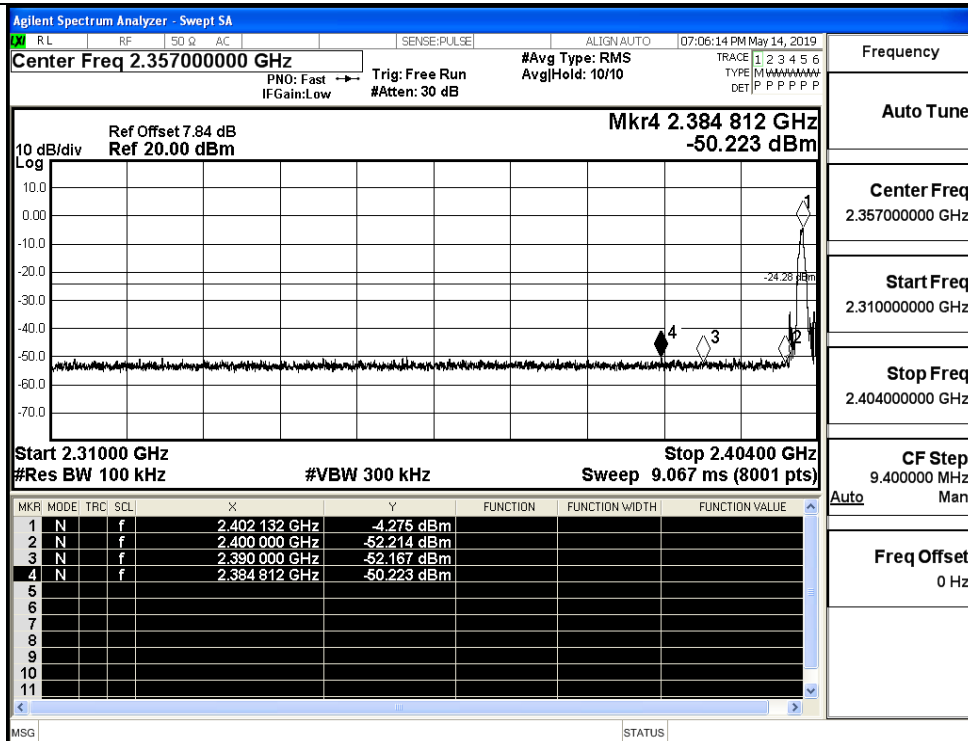
GFSK/HCH/No Hop



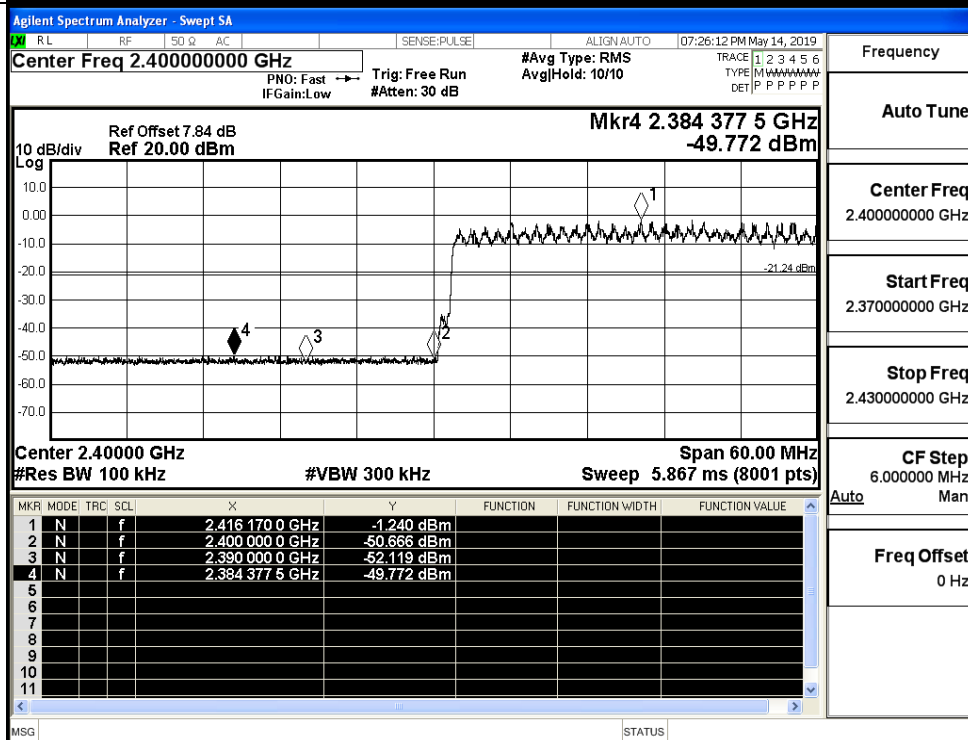
GFSK/HCH/Hop



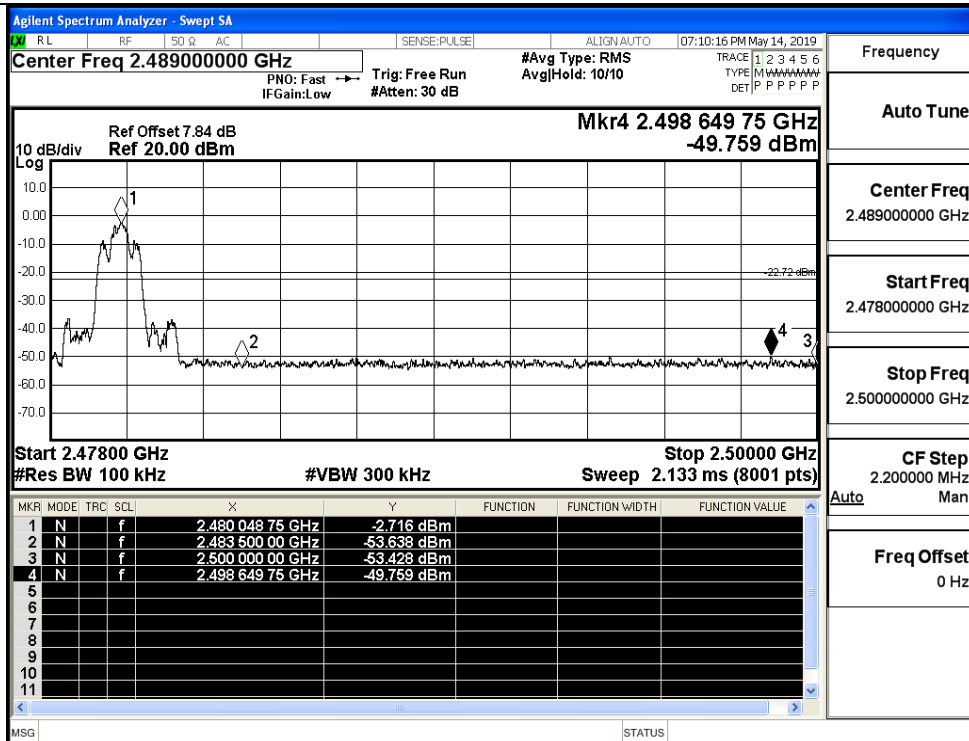
$\pi/4$ DQPSK/LCH/No
Hop



$\pi/4$ DQPSK/LCH/Hop



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

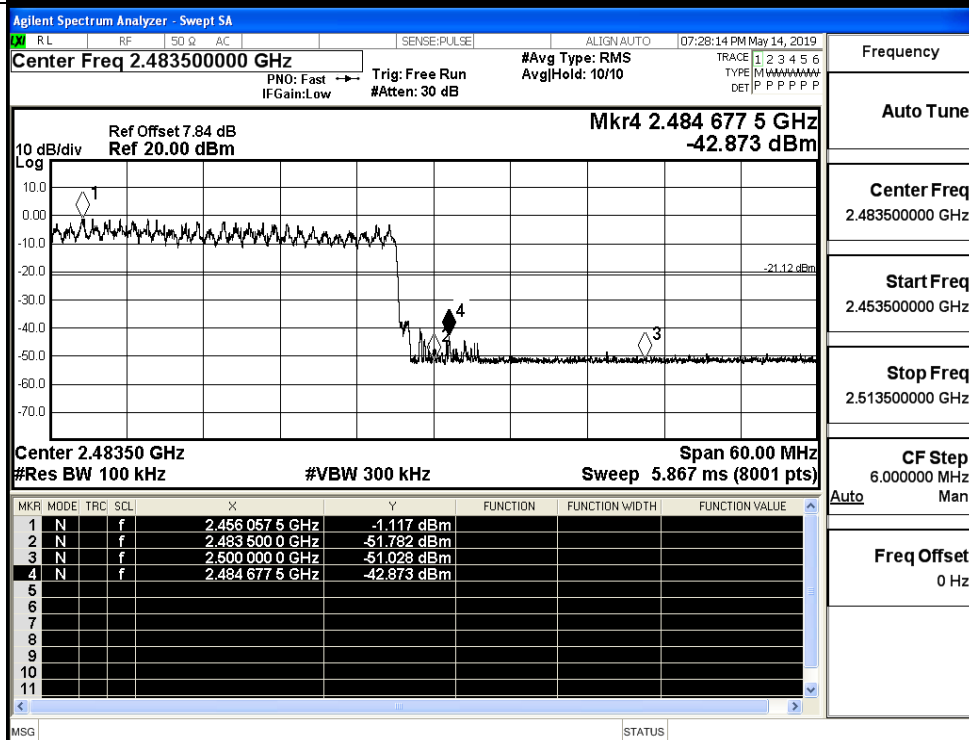


Frequency

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

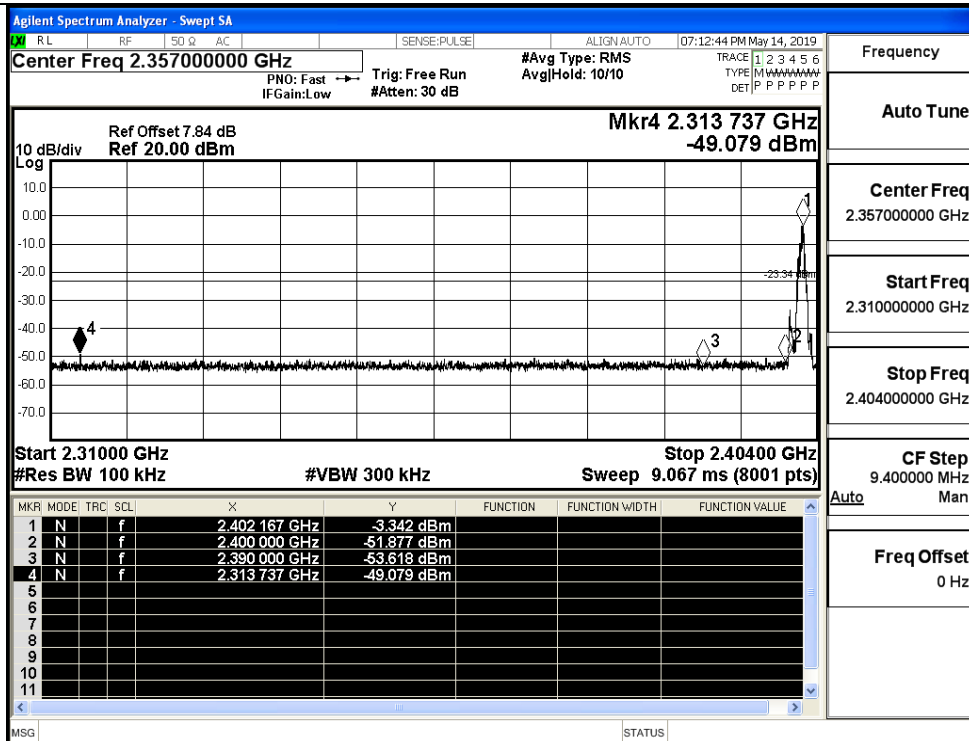


Frequency

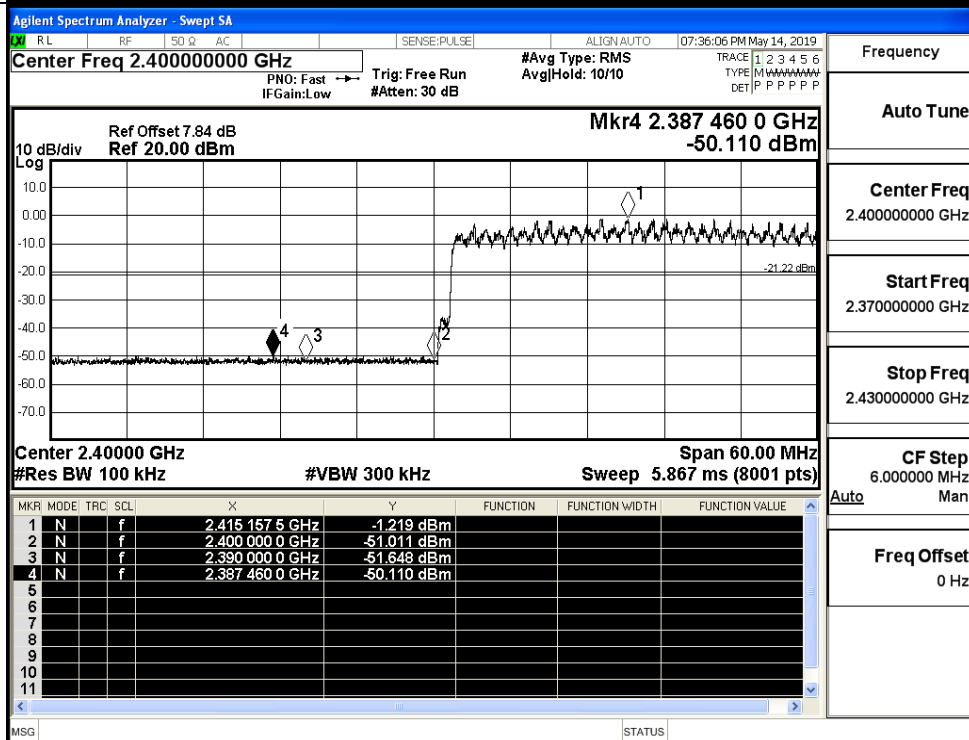
Auto Tune

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

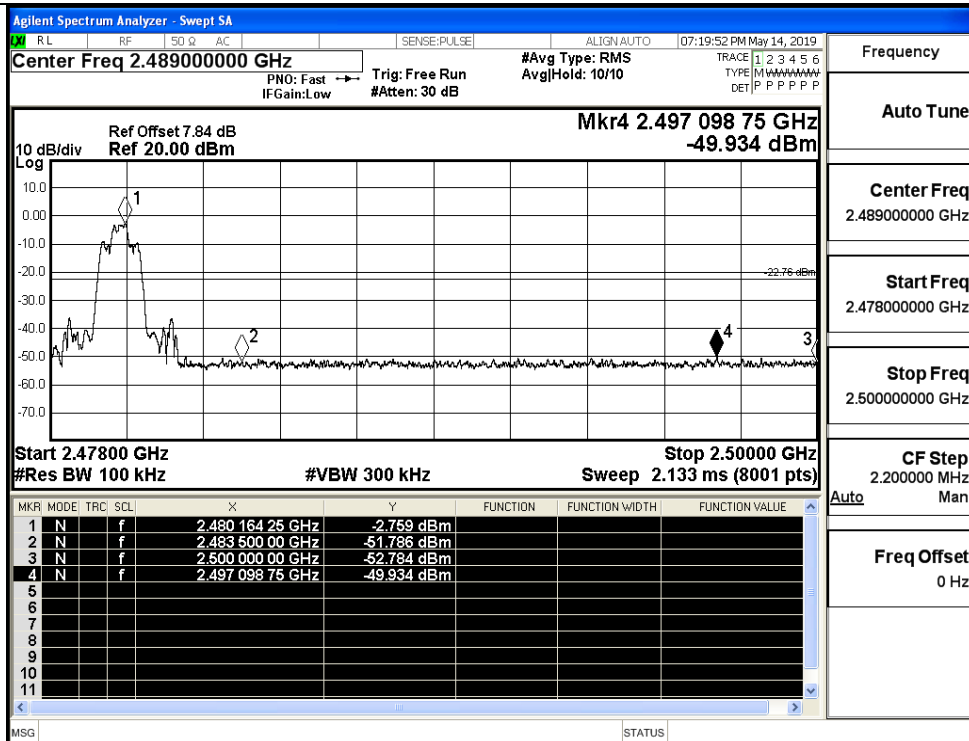
8DPSK/LCH/No Hop



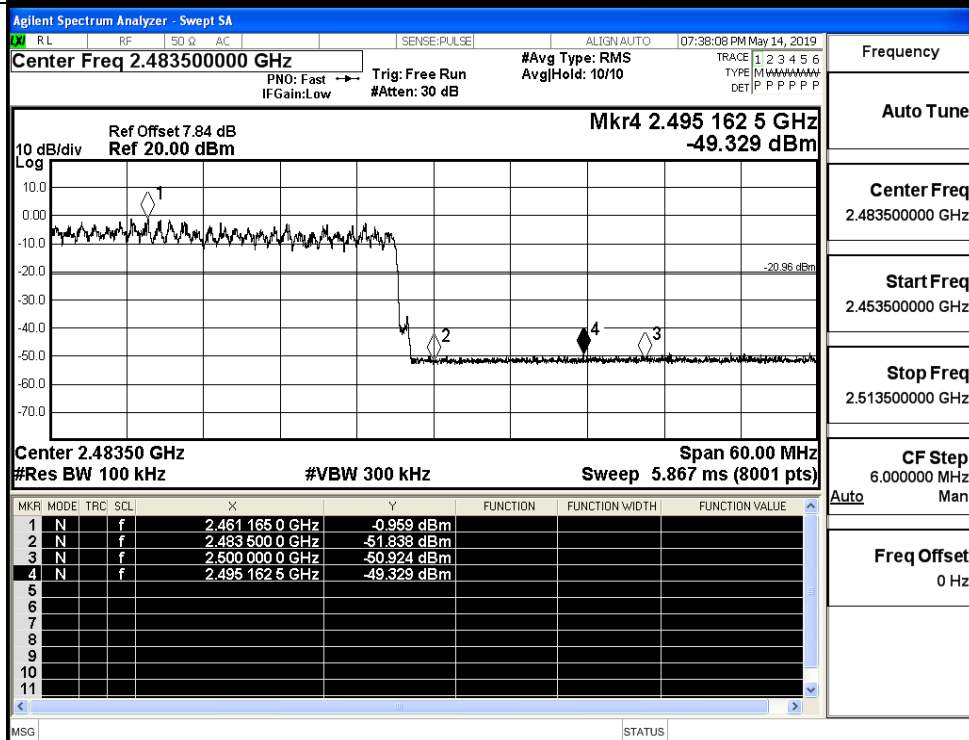
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



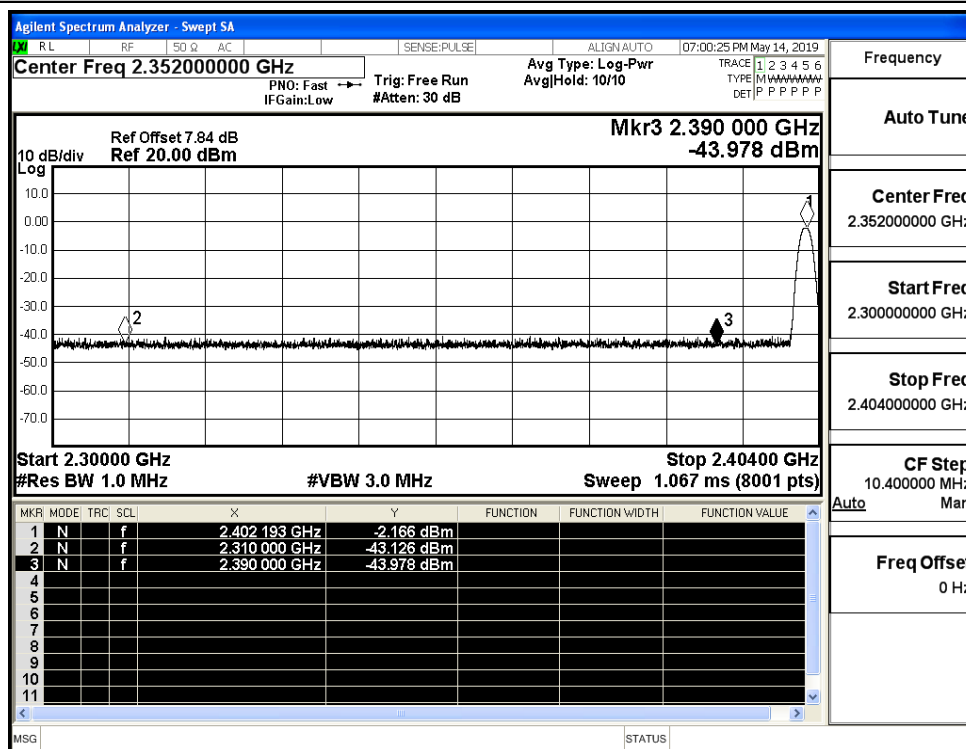
8DPSK/HCH/Hop



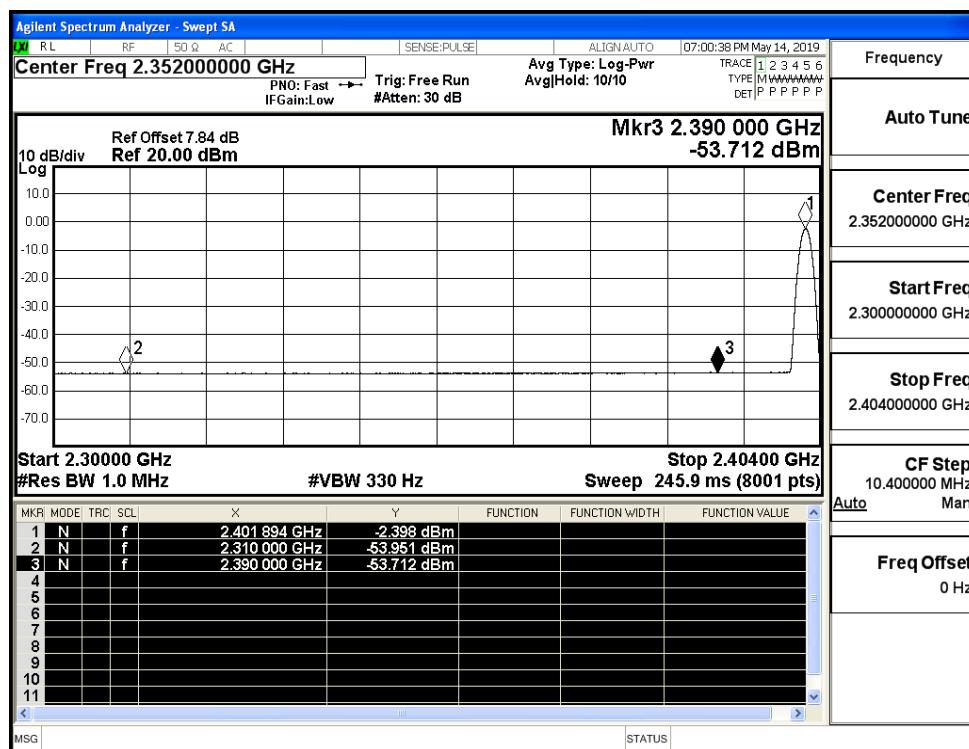
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-43.13	2.0	0	54.13	PEAK	74	PASS
	Off	2310.0	-53.95	2.0	0	43.31	AV	54	PASS
	Off	2390.0	-43.98	2.0	0	53.28	PEAK	74	PASS
	Off	2390.0	-53.71	2.0	0	43.55	AV	54	PASS
	Off	2483.5	-42.65	2.0	0	54.61	PEAK	74	PASS
	Off	2483.5	-53.39	2.0	0	43.87	AV	54	PASS
	Off	2500.0	-40.93	2.0	0	56.33	PEAK	74	PASS
	Off	2500.0	-53.30	2.0	0	43.96	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-44.46	2.0	0	52.80	PEAK	74	PASS
	Off	2310.0	-53.70	2.0	0	43.56	AV	54	PASS
	Off	2390.0	-43.98	2.0	0	53.28	PEAK	74	PASS
	Off	2390.0	-53.55	2.0	0	43.70	AV	54	PASS
	Off	2483.5	-43.72	2.0	0	53.54	PEAK	74	PASS
	Off	2483.5	-53.31	2.0	0	43.95	AV	54	PASS
	Off	2500.0	-42.86	2.0	0	54.40	PEAK	74	PASS
	Off	2500.0	-53.17	2.0	0	44.09	AV	54	PASS
8DPSK	Off	2310.0	-43.68	2.0	0	53.58	PEAK	74	PASS
	Off	2310.0	-53.81	2.0	0	43.45	AV	54	PASS
	Off	2390.0	-43.32	2.0	0	53.94	PEAK	74	PASS
	Off	2390.0	-53.48	2.0	0	43.78	AV	54	PASS
	Off	2483.5	-43.28	2.0	0	53.97	PEAK	74	PASS
	Off	2483.5	-53.34	2.0	0	43.92	AV	54	PASS
	Off	2500.0	-42.40	2.0	0	54.86	PEAK	74	PASS
	Off	2500.0	-53.21	2.0	0	44.05	AV	54	PASS

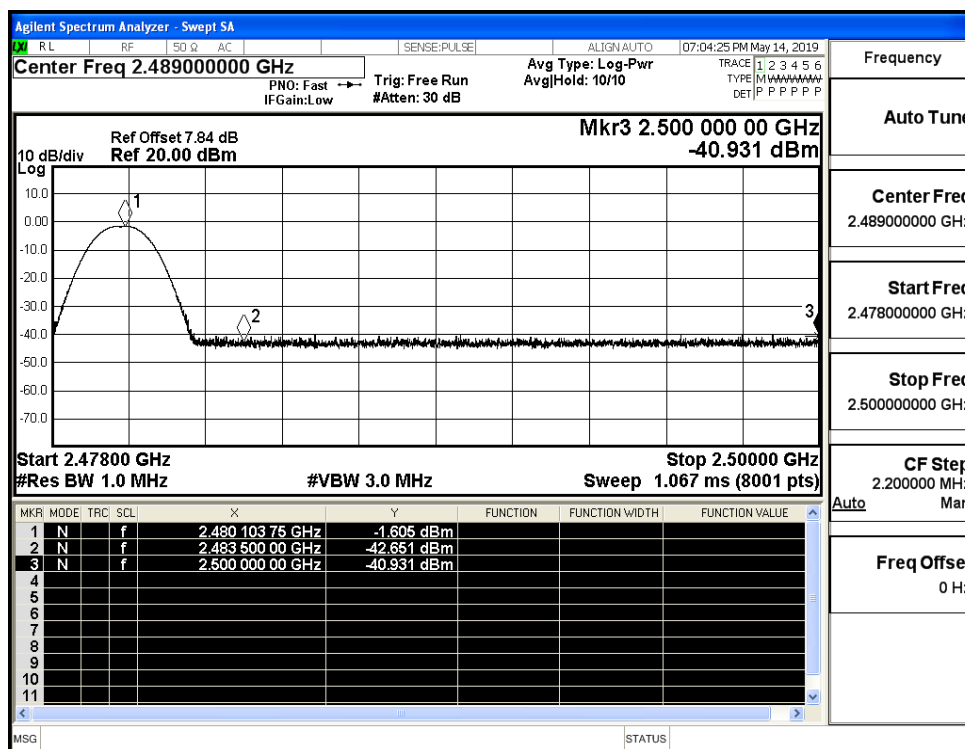
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



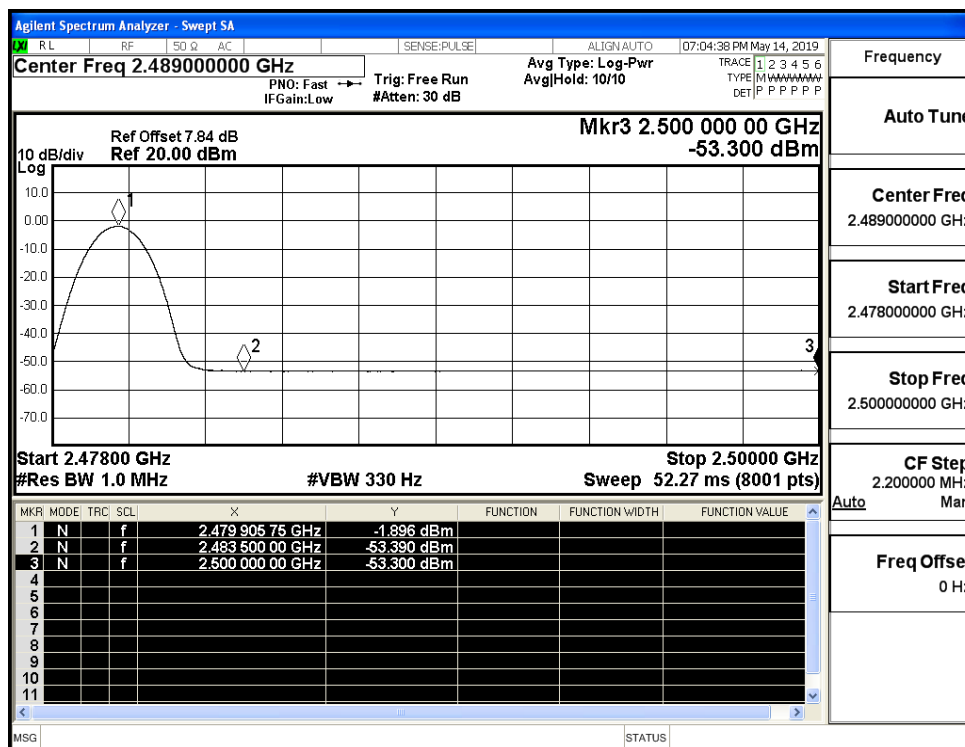
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)

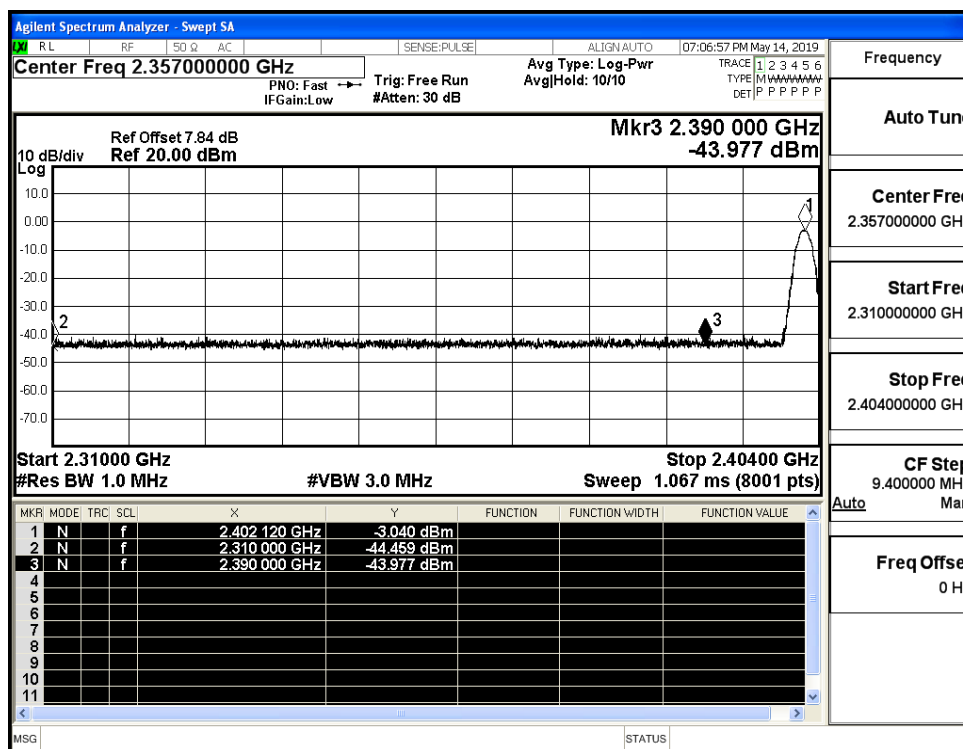
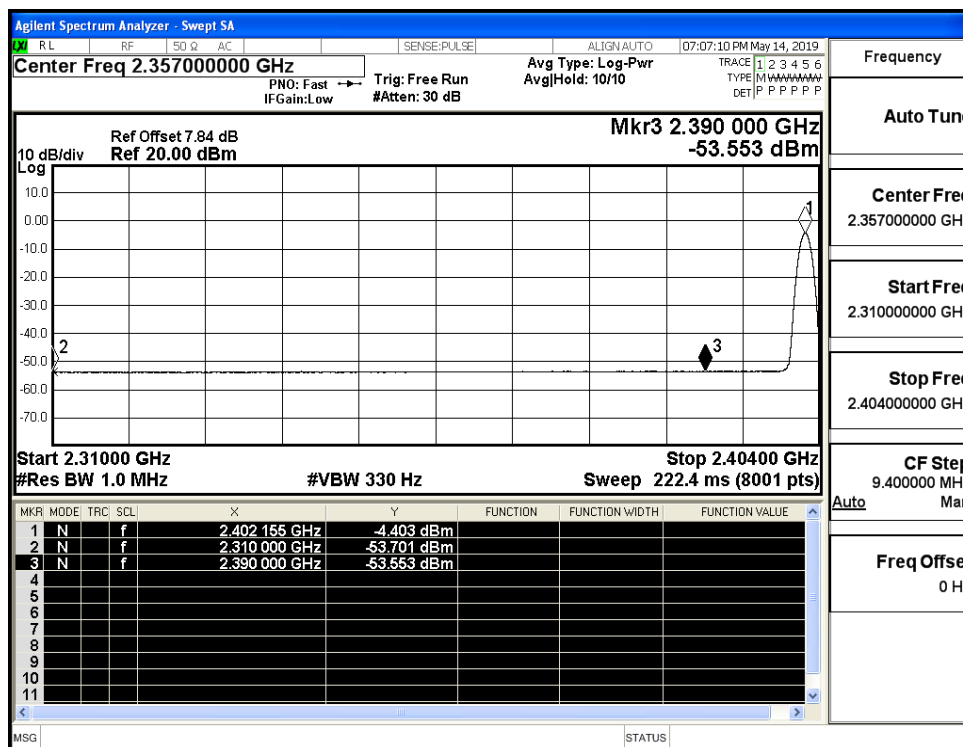


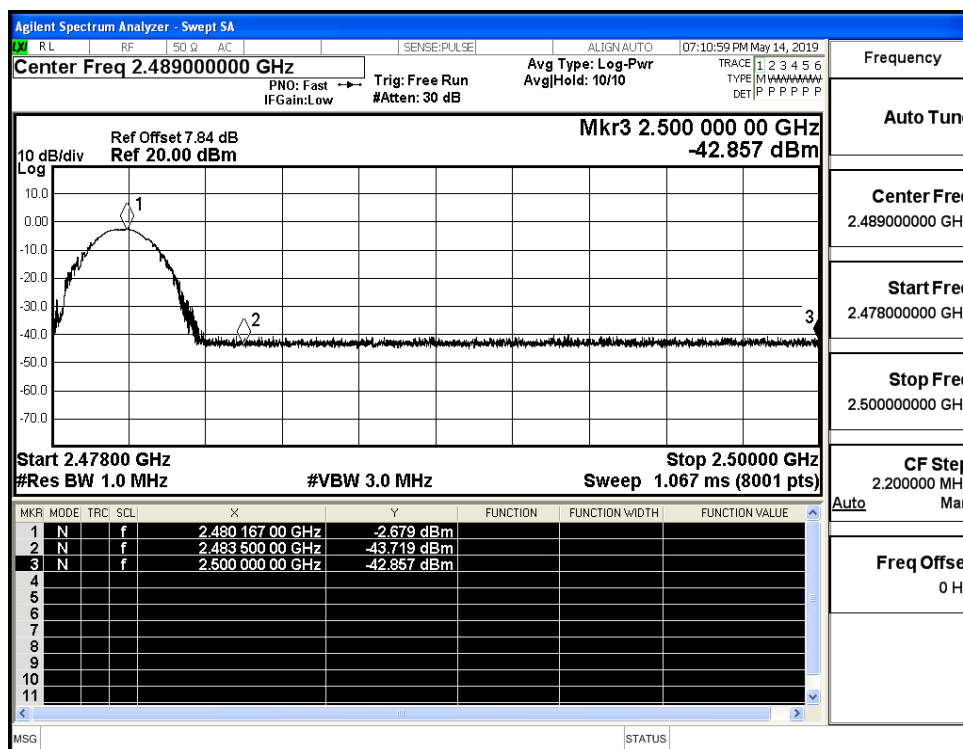
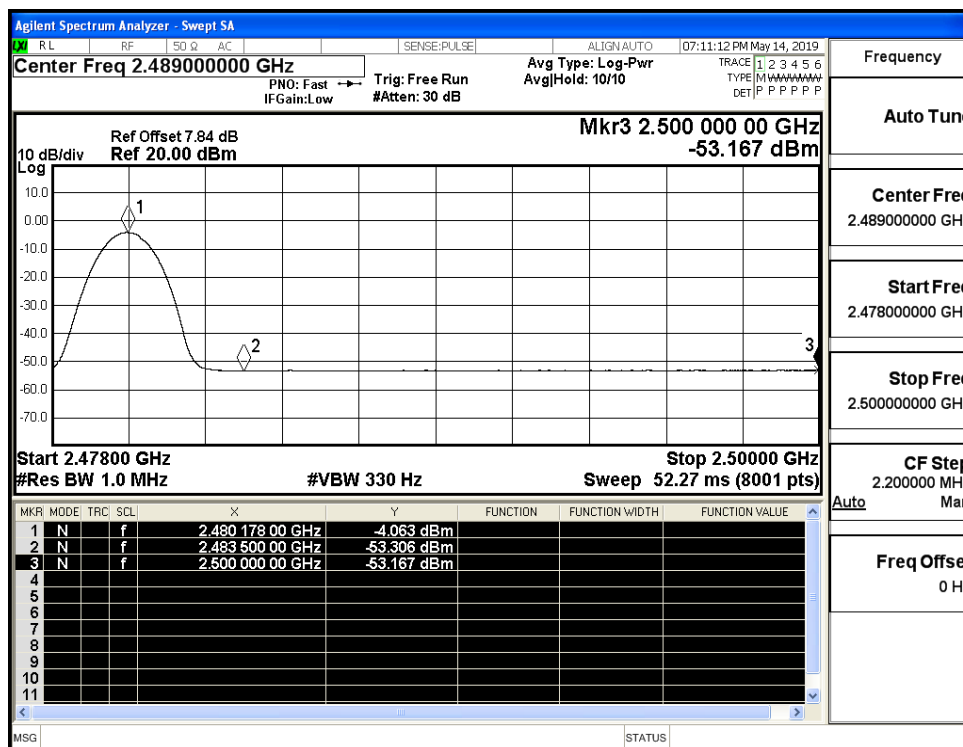
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



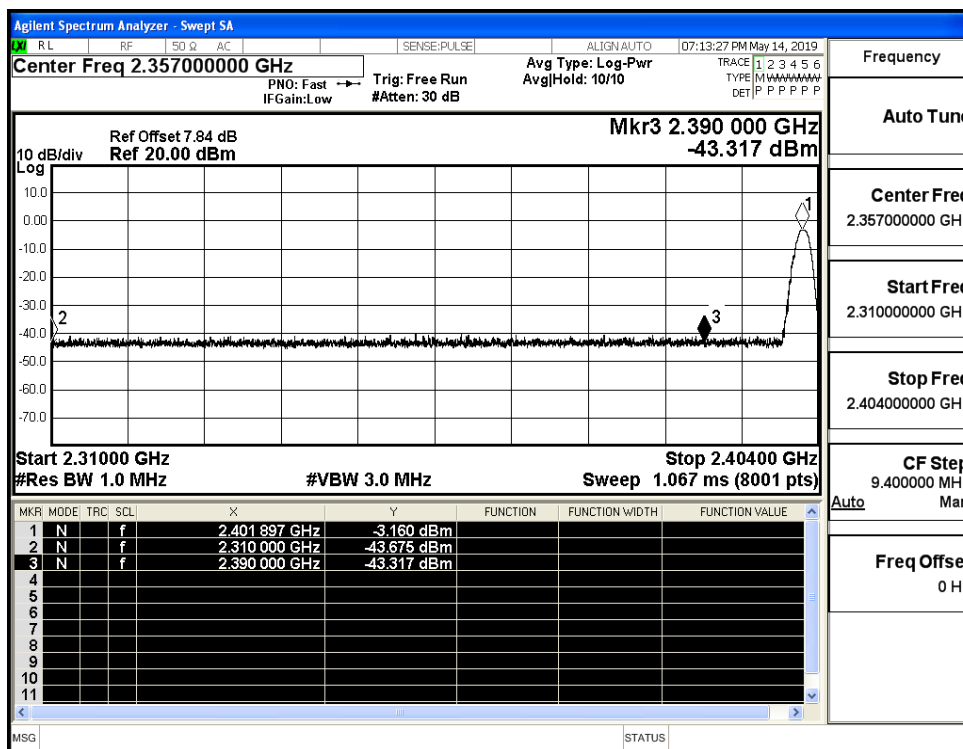
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



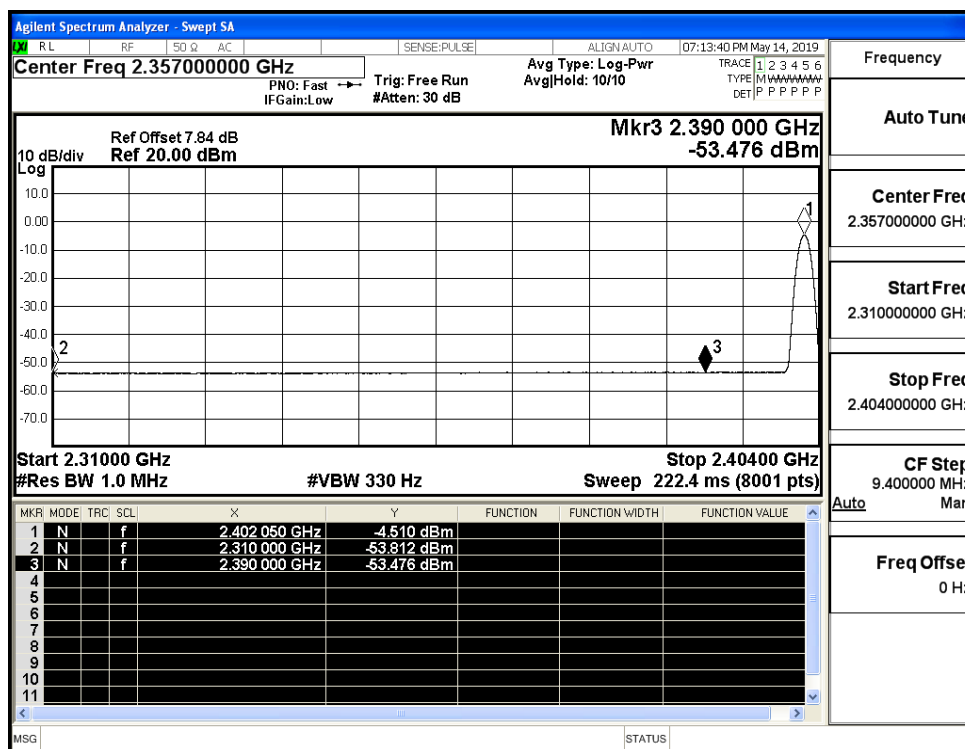
Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)

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)

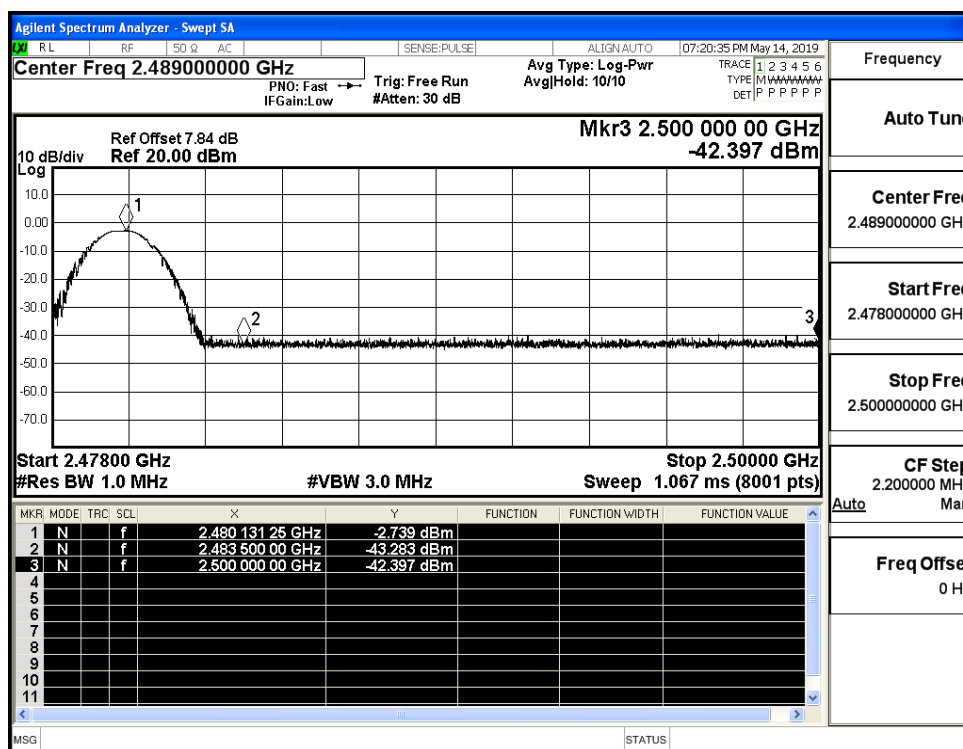
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

