

Appendix A

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

Product Name: Look tablet

Trade Mark: Look2innovate

Test Model: LKTABLET1

Environmental Conditions

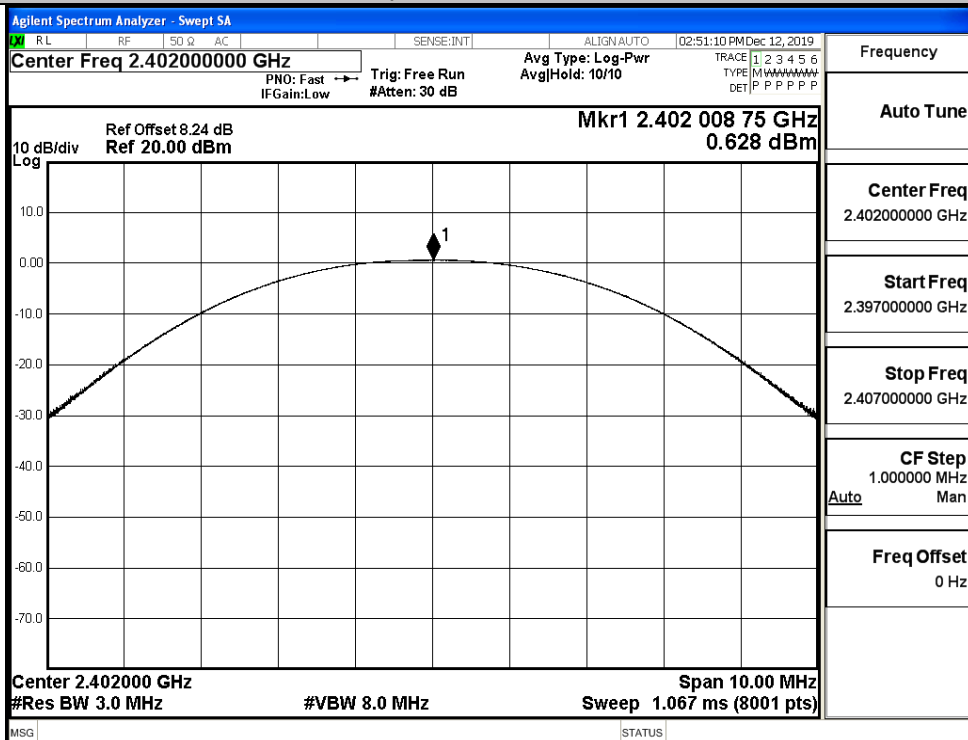
Temperature:	22.8° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Alisa Huang
Supervised by:	Wang Chuang

A.1 Maximum Conducted Peak Output Power

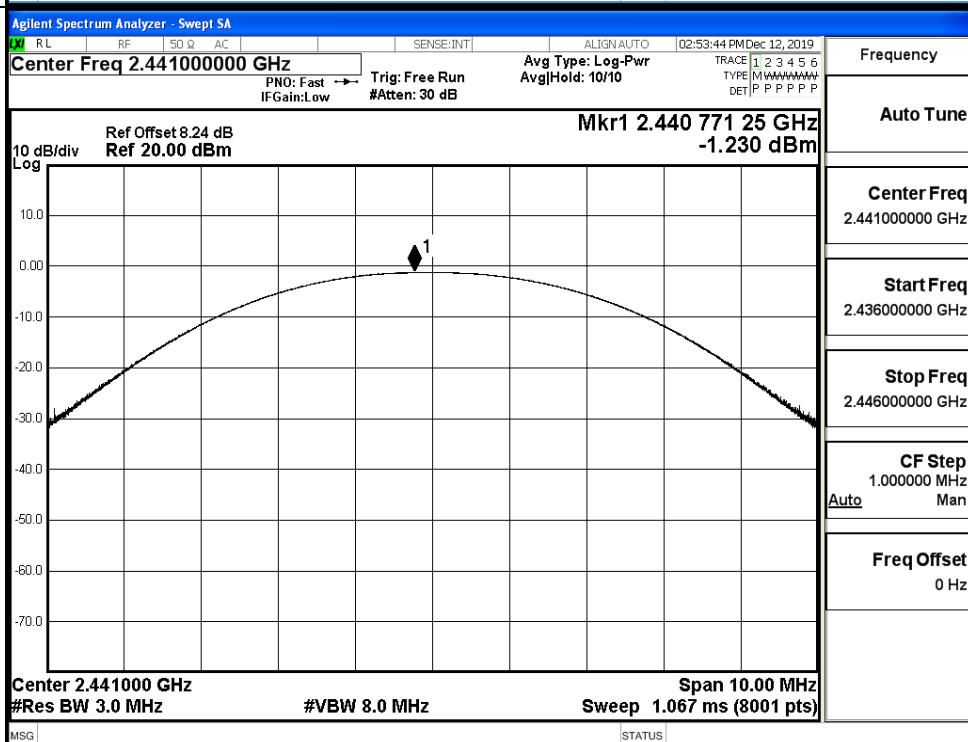
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.628	21	PASS
	MCH	-1.230	21	PASS
	HCH	0.038	21	PASS
$\pi/4$ DQPSK	LCH	-0.052	21	PASS
	MCH	-1.787	21	PASS
	HCH	-0.770	21	PASS
8DPSK	LCH	0.157	21	PASS
	MCH	-1.595	21	PASS
	HCH	-0.488	21	PASS

Test Graphs

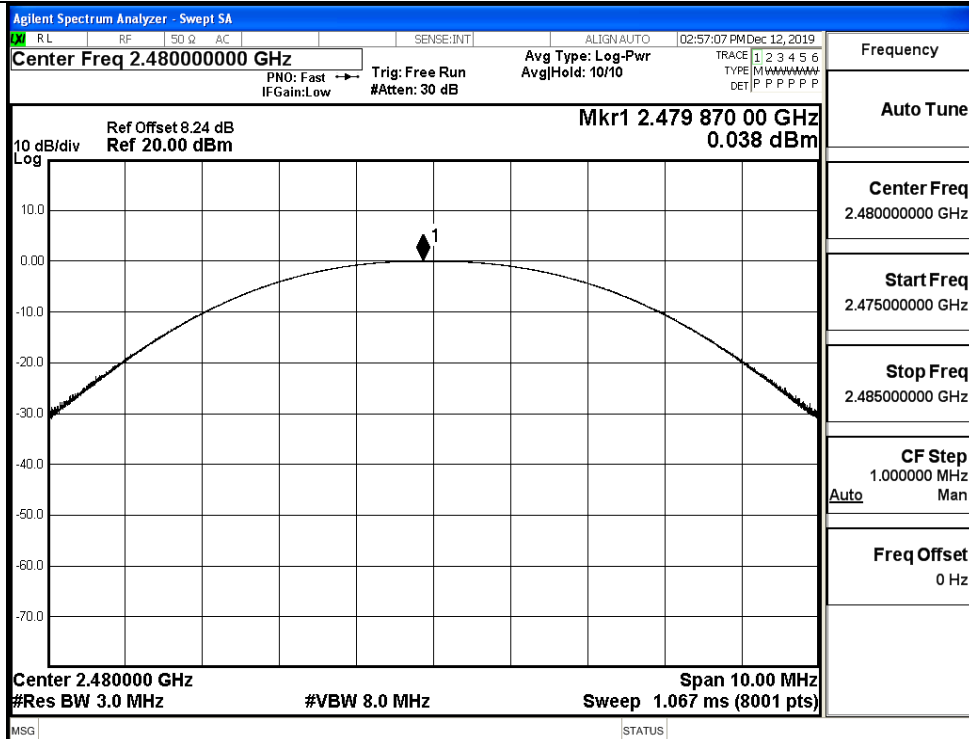
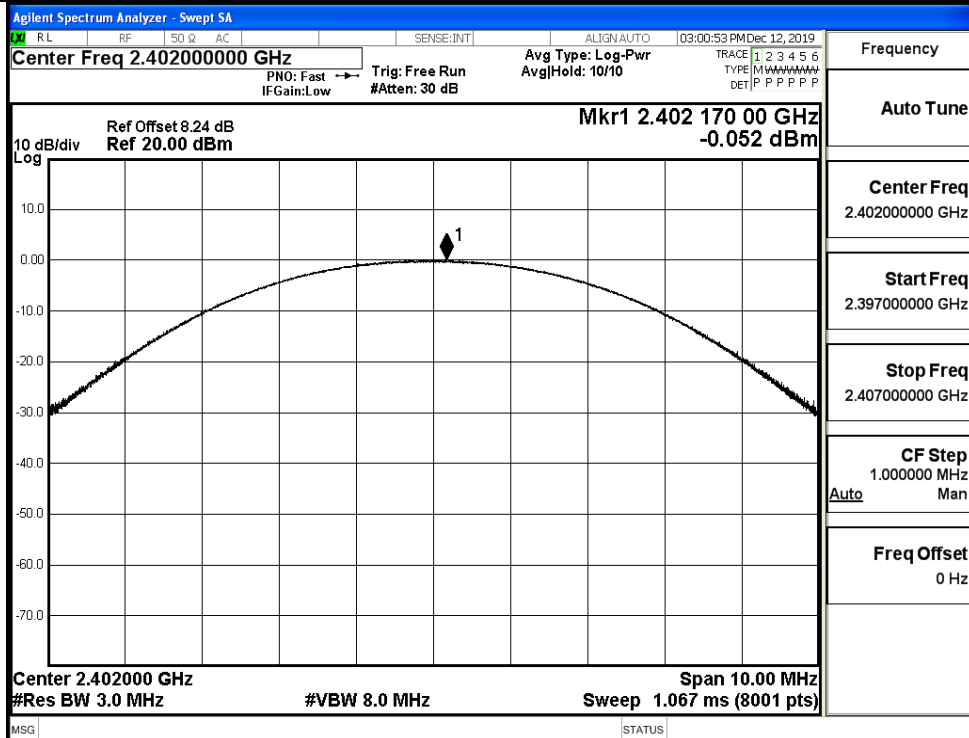
GFSK/LCH

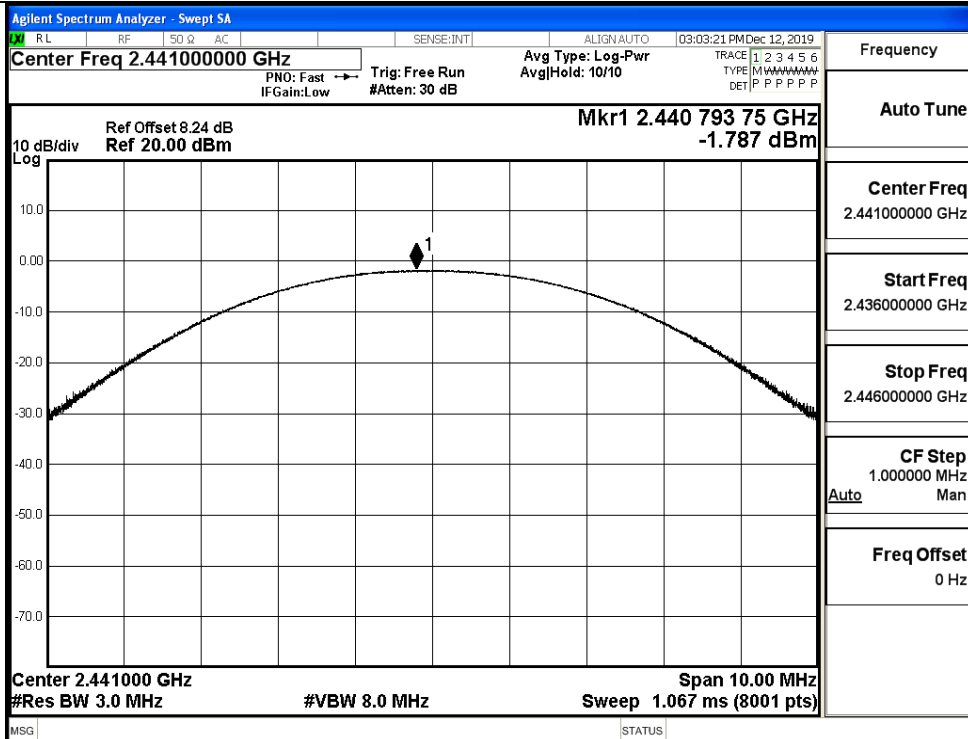
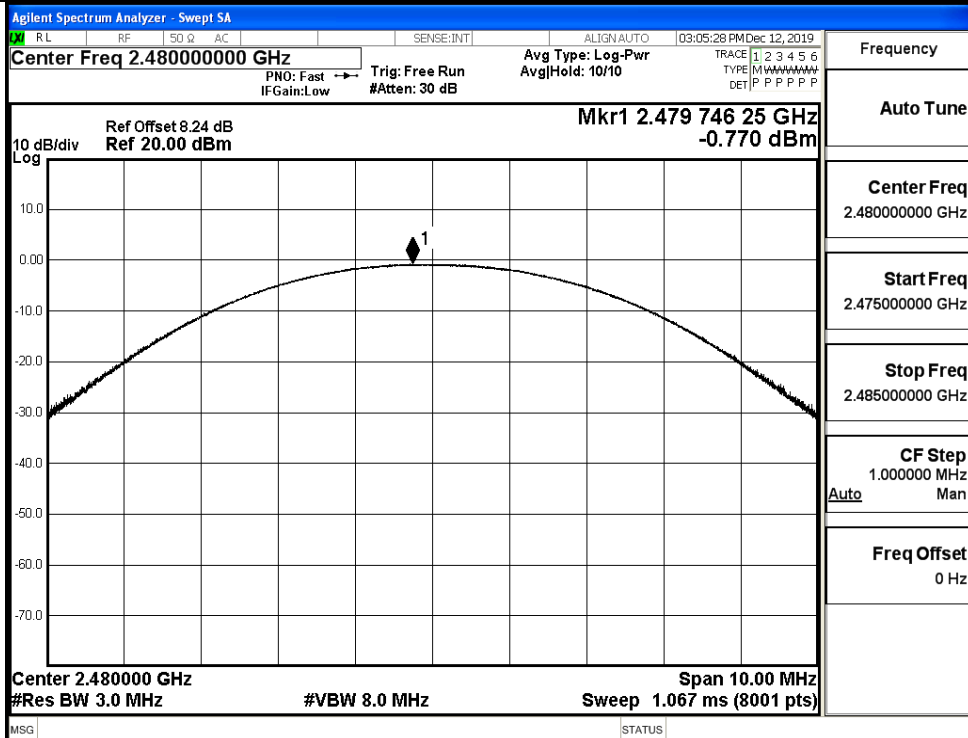


GFSK/MCH

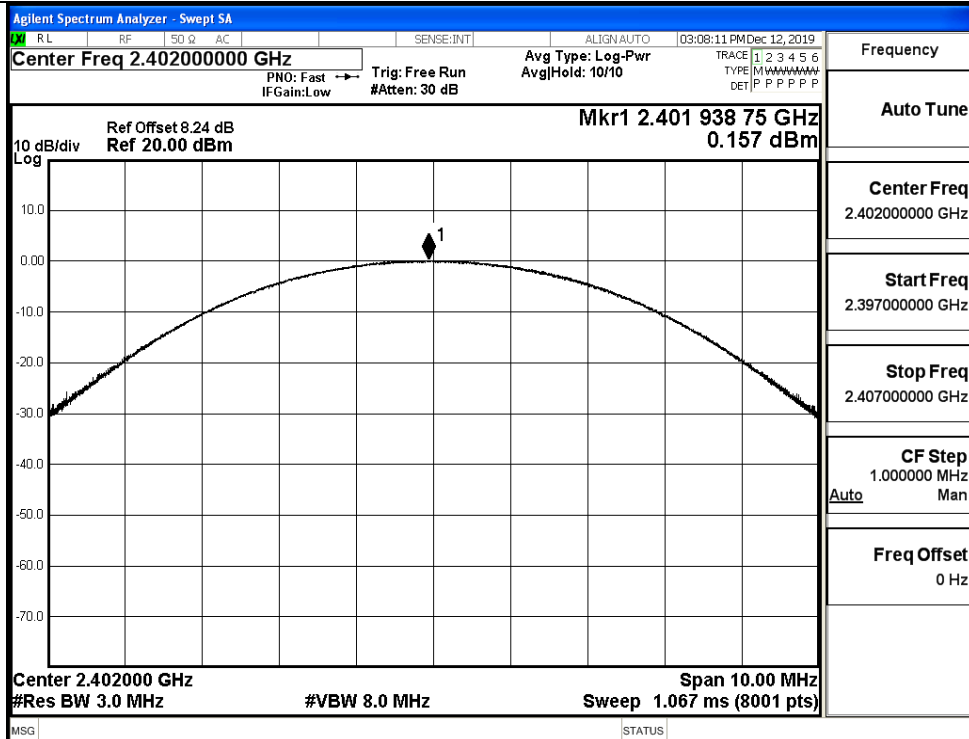


GFSK/HCH

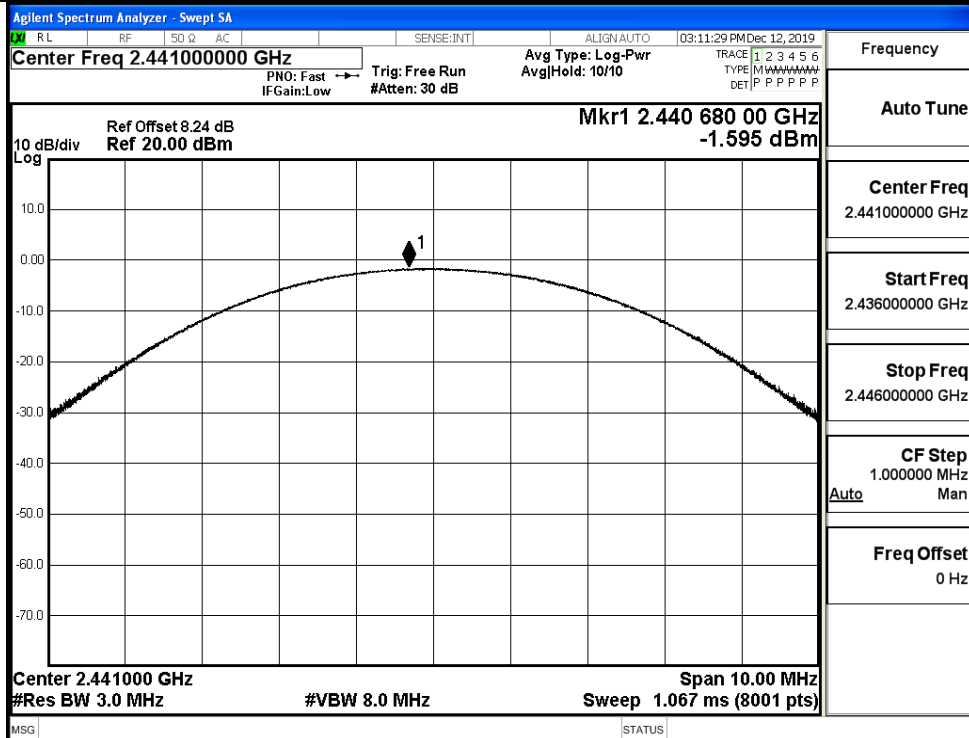
 $\pi/4$ DQPSK/LCH

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

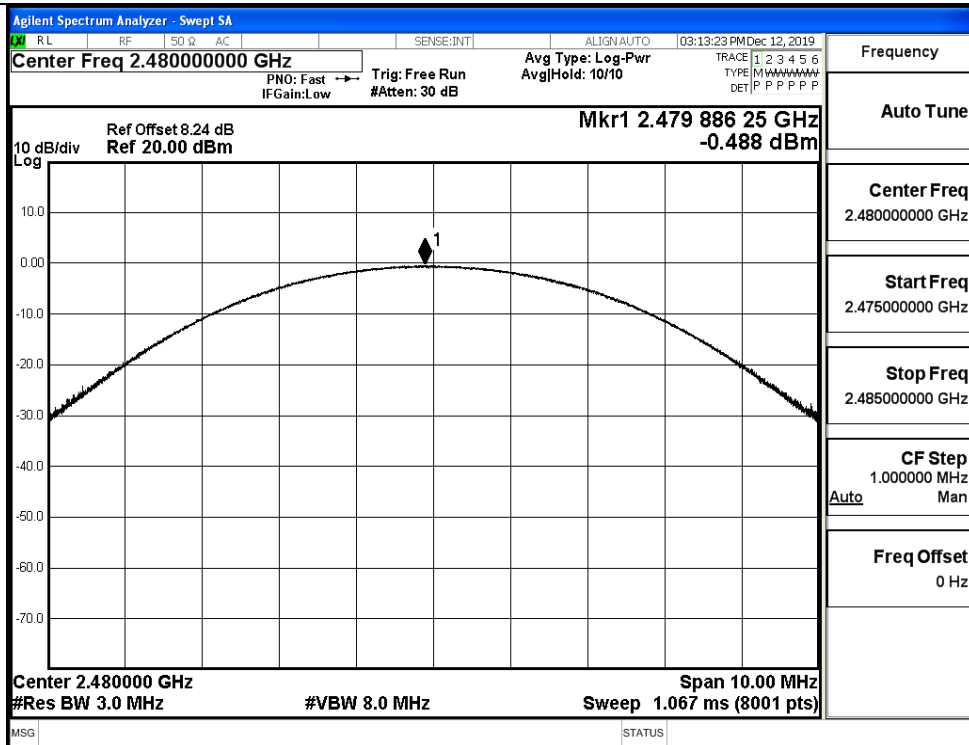
8DPSK/LCH



8DPSK/MCH



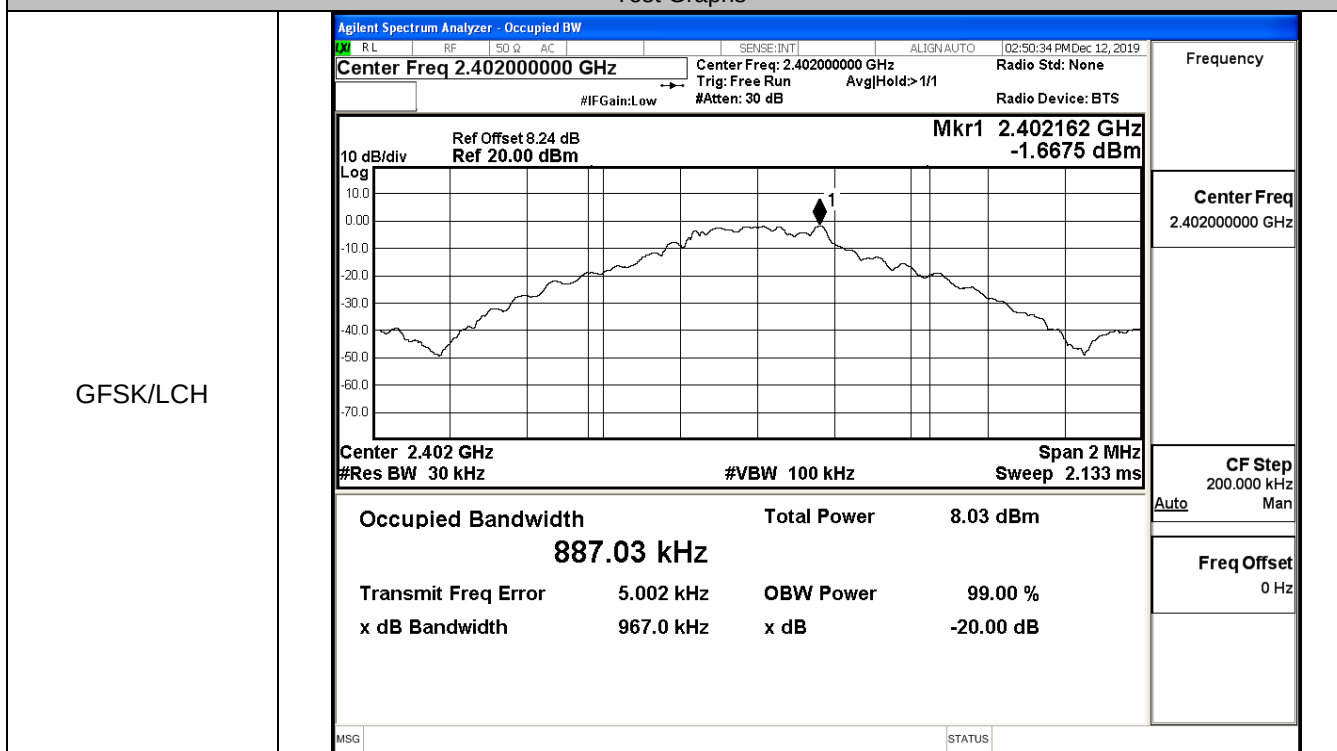
8DPSK/HCH



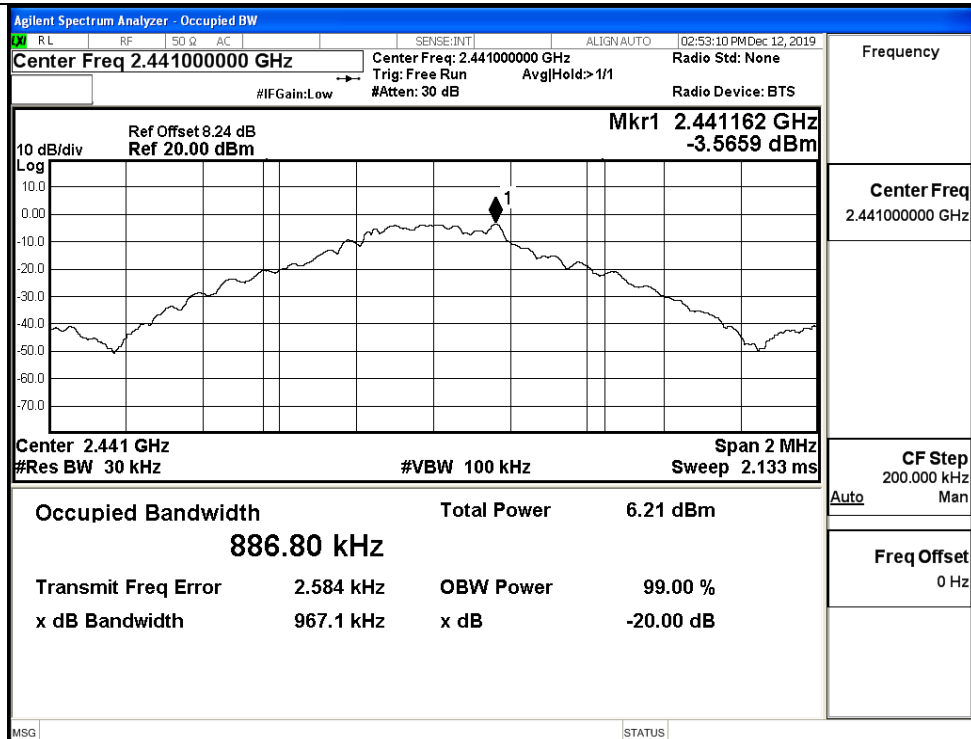
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.9670	Not Specified	PASS
	MCH	0.9671	Not Specified	PASS
	HCH	1.029	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.291	Not Specified	PASS
	MCH	1.294	Not Specified	PASS
	HCH	1.291	Not Specified	PASS
8DPSK	LCH	1.292	Not Specified	PASS
	MCH	1.297	Not Specified	PASS
	HCH	1.293	Not Specified	PASS

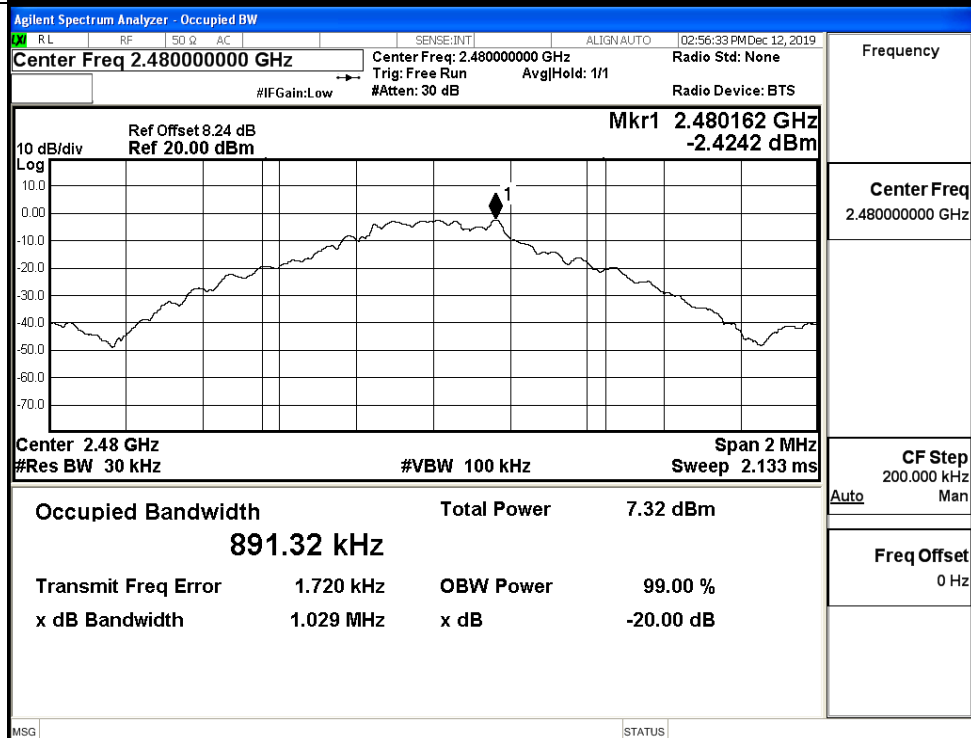
Test Graphs

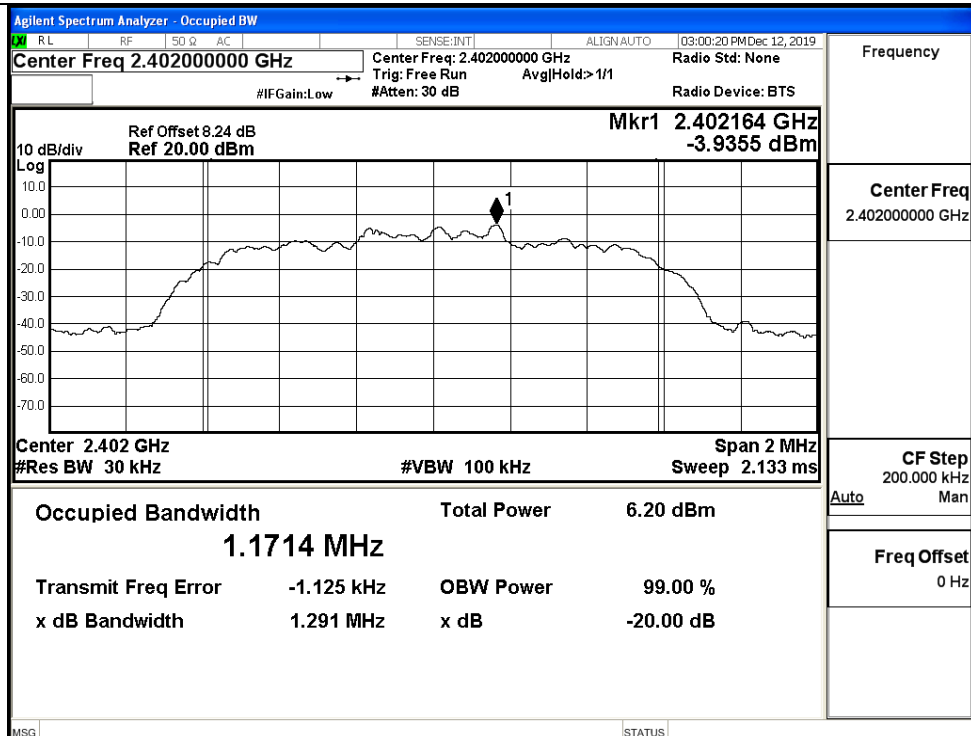
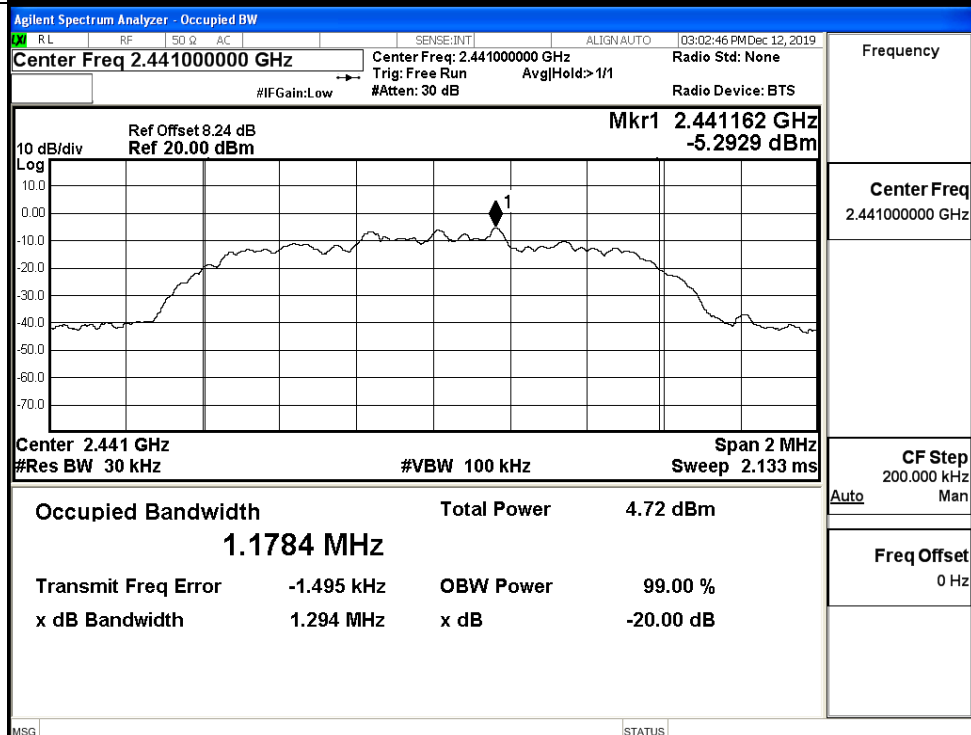


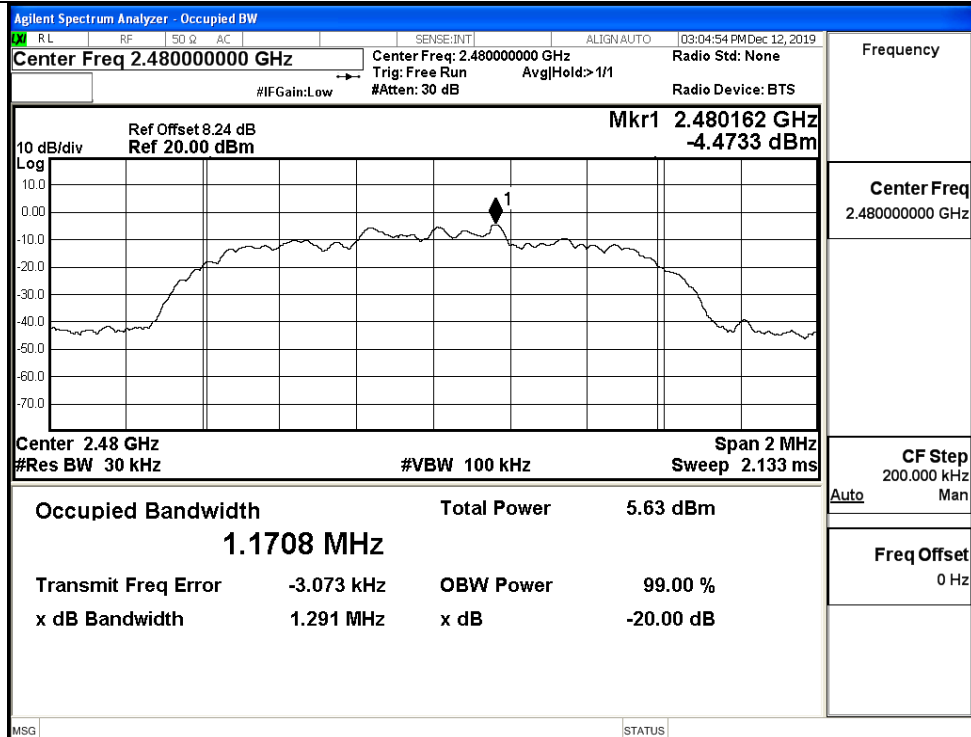
GFSK/MCH



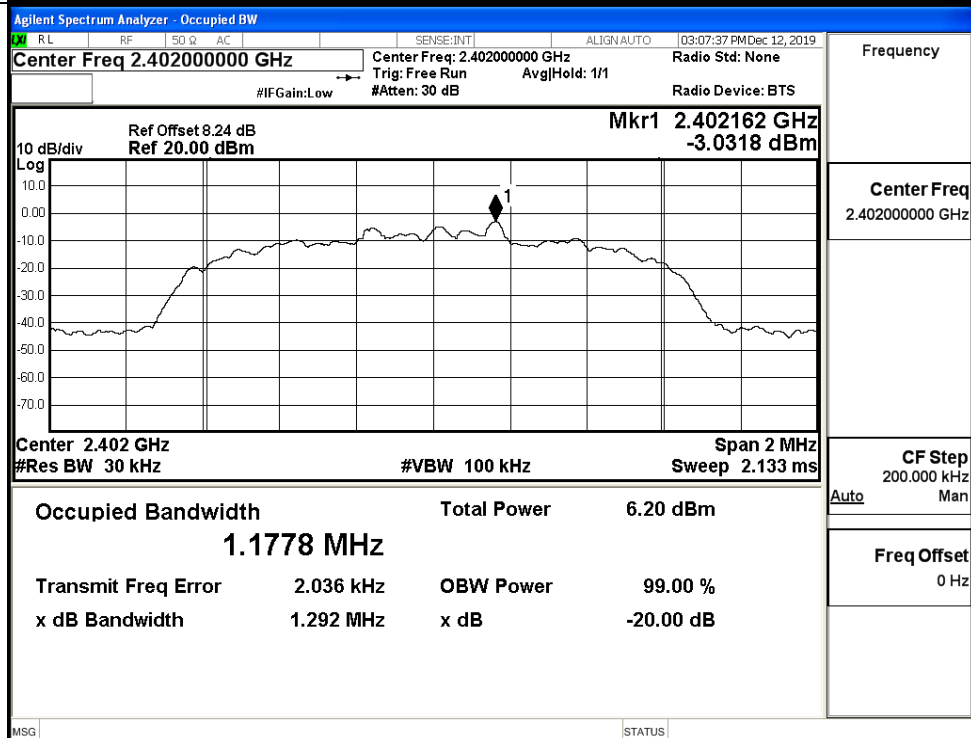
GFSK/HCH



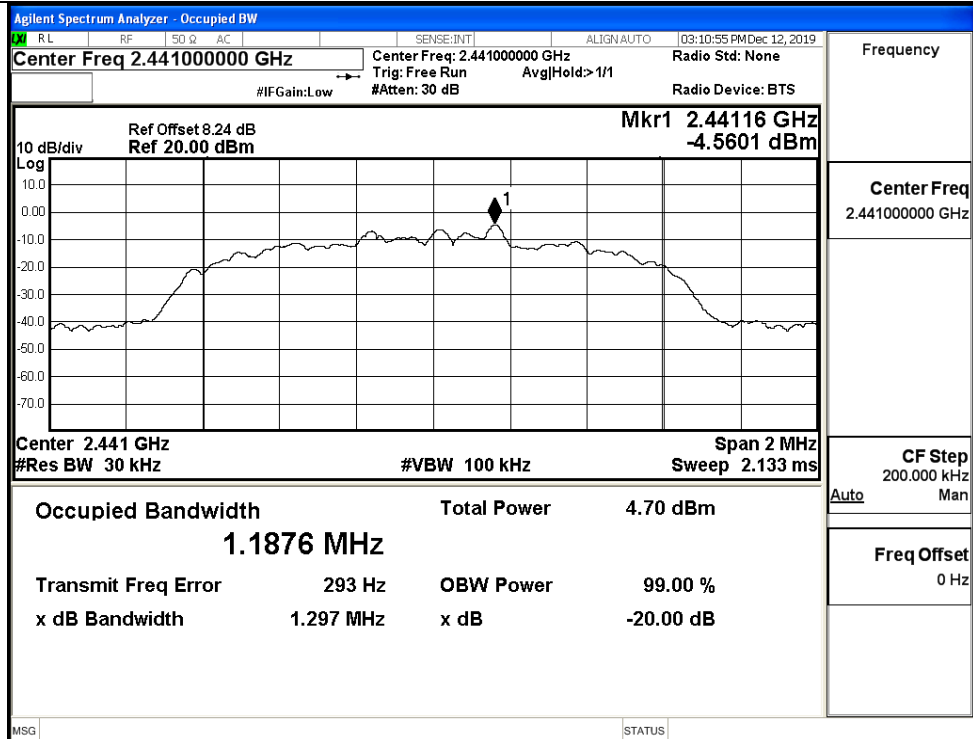
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

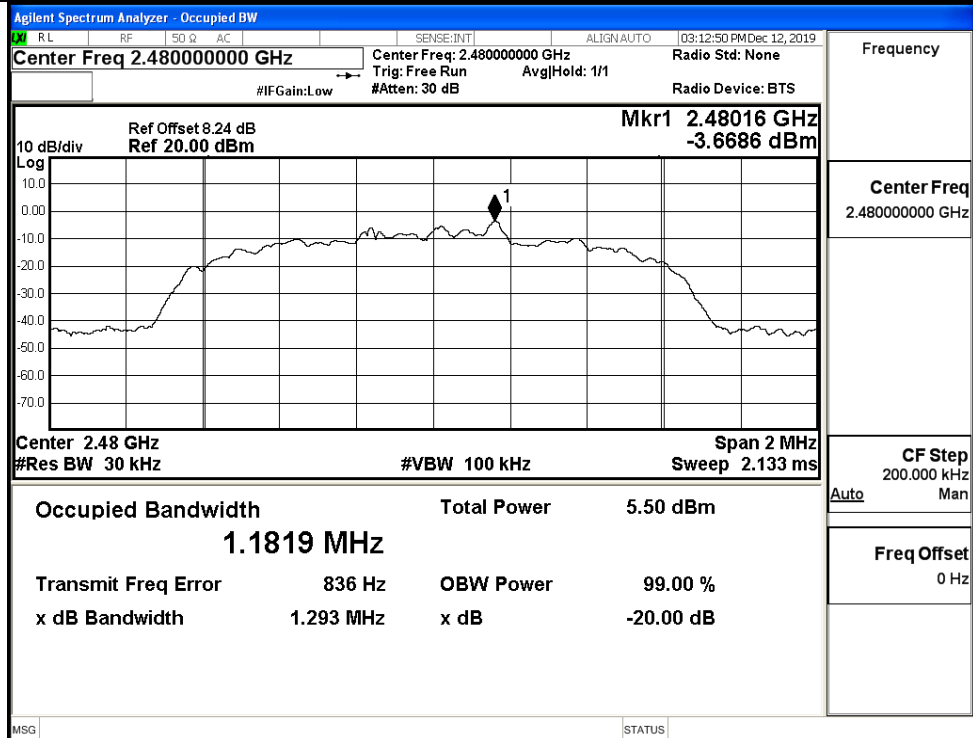
8DPSK/LCH



8DPSK/MCH



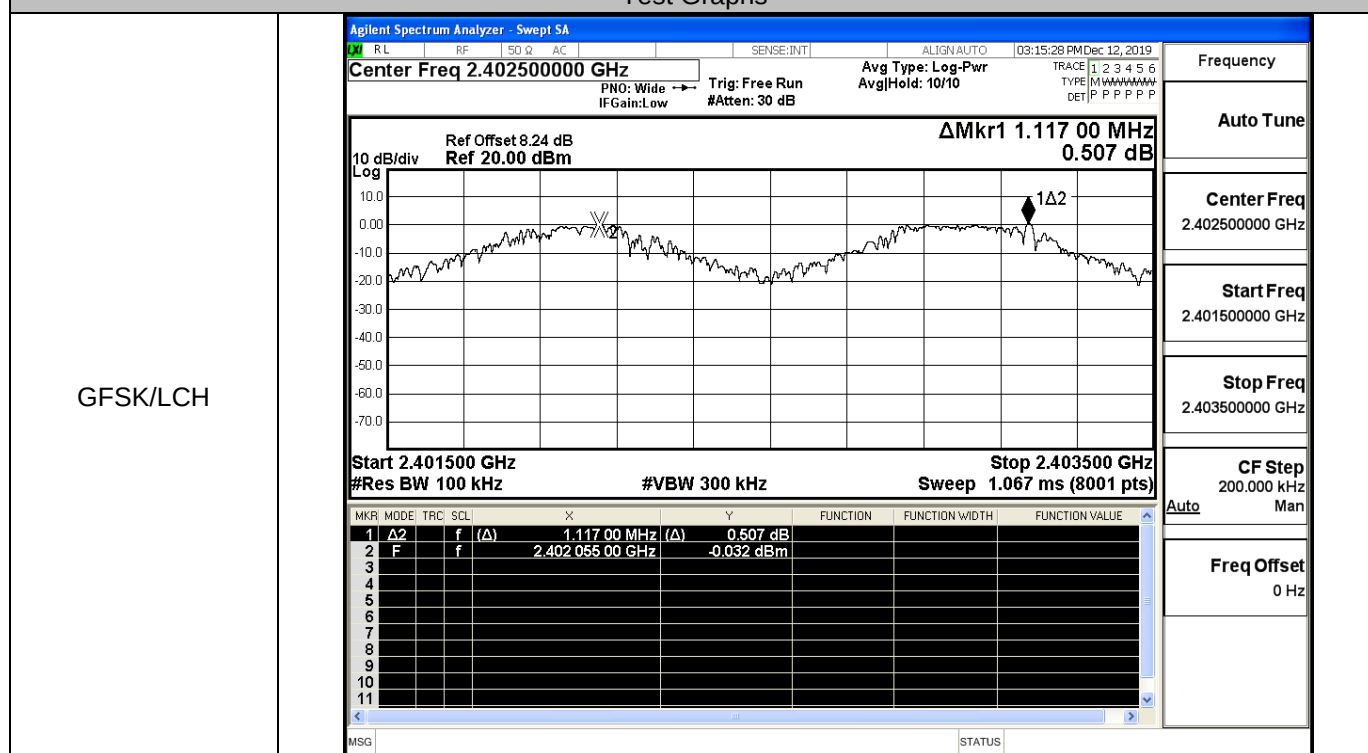
8DPSK/HCH



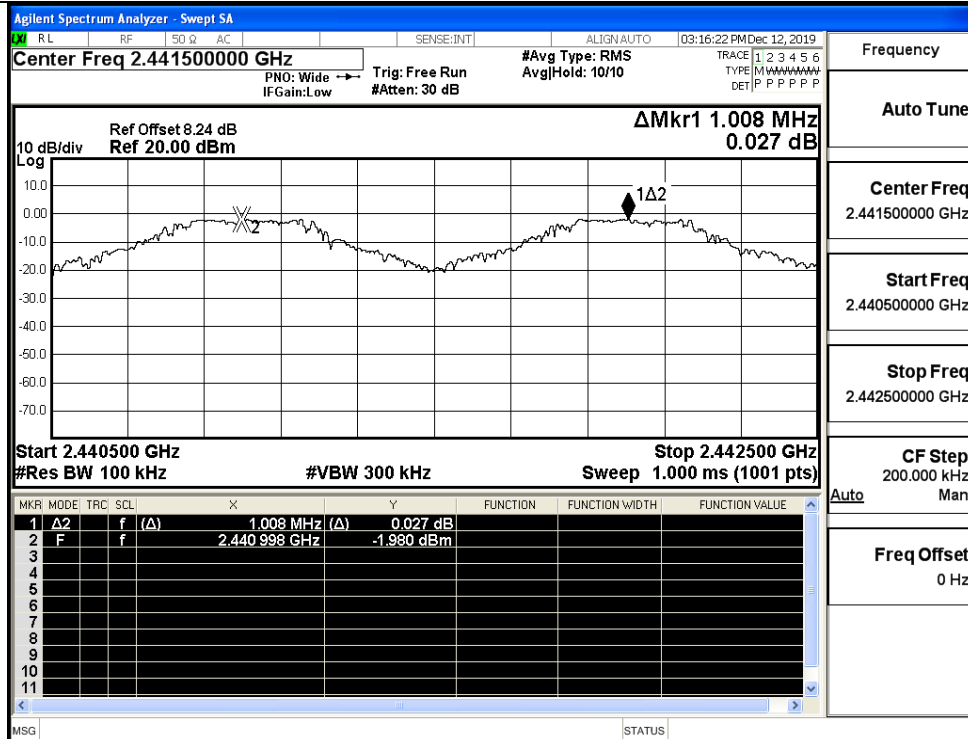
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.117	0.686	PASS
	MCH	1.008	0.686	PASS
	HCH	1.166	0.686	PASS
$\pi/4$ DQPSK	LCH	1.148	0.863	PASS
	MCH	1.022	0.863	PASS
	HCH	0.998	0.863	PASS
8DPSK	LCH	1.156	0.865	PASS
	MCH	1.176	0.865	PASS
	HCH	1.128	0.865	PASS

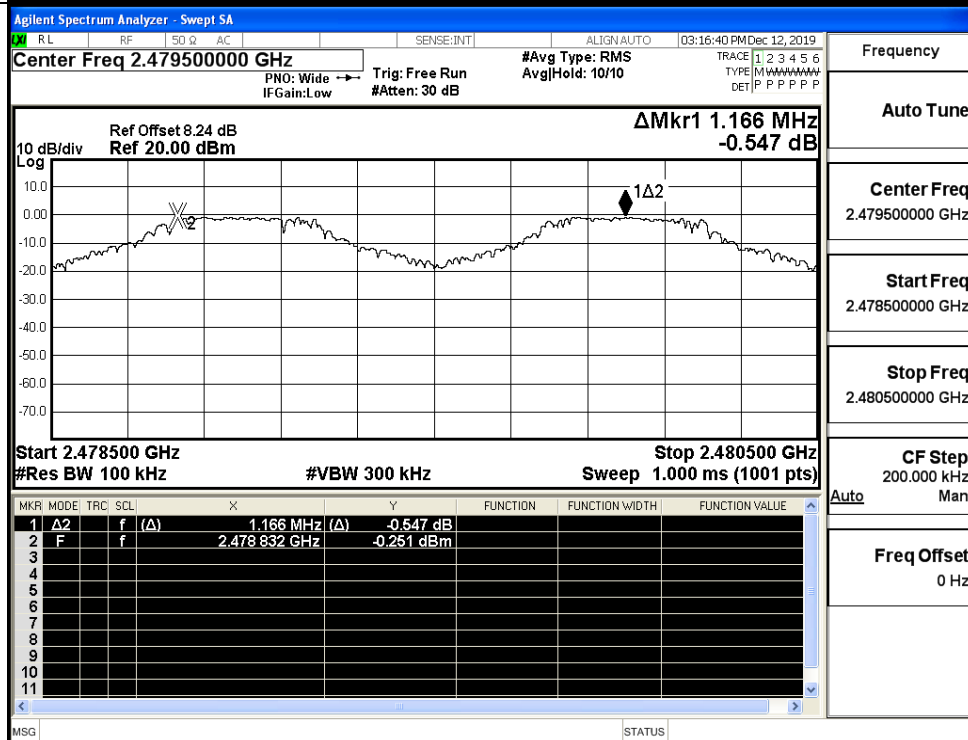
Test Graphs

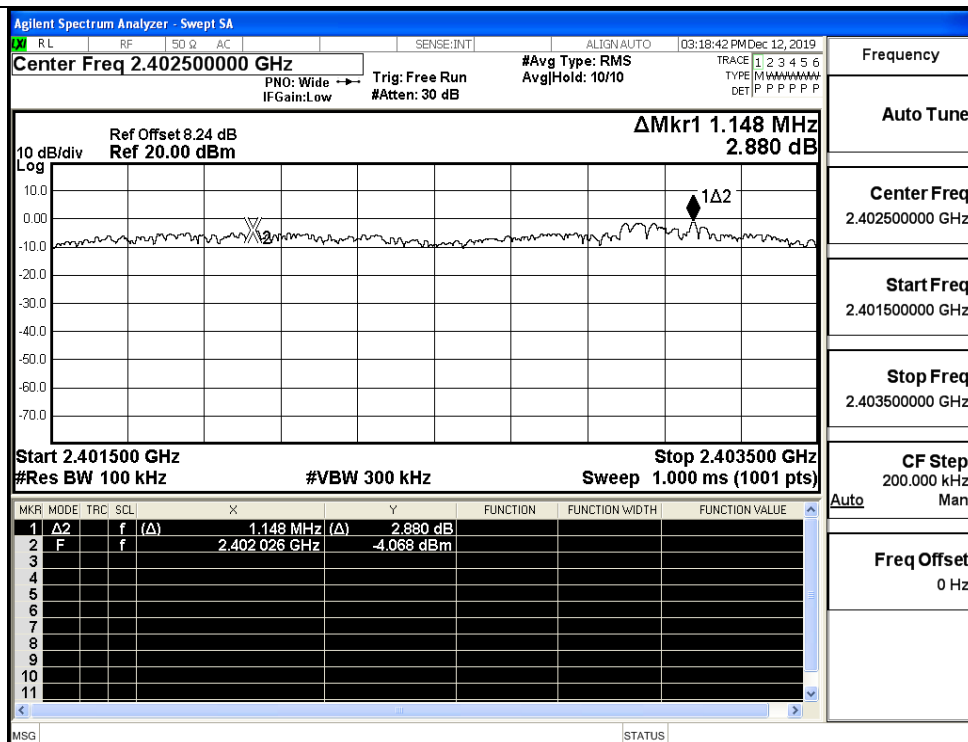
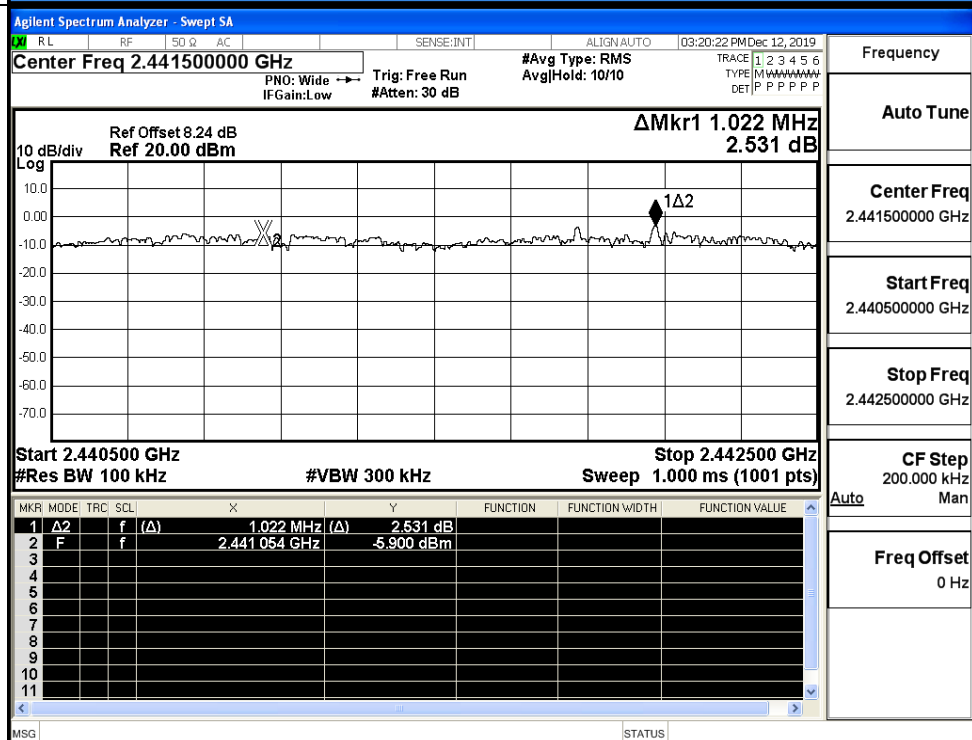


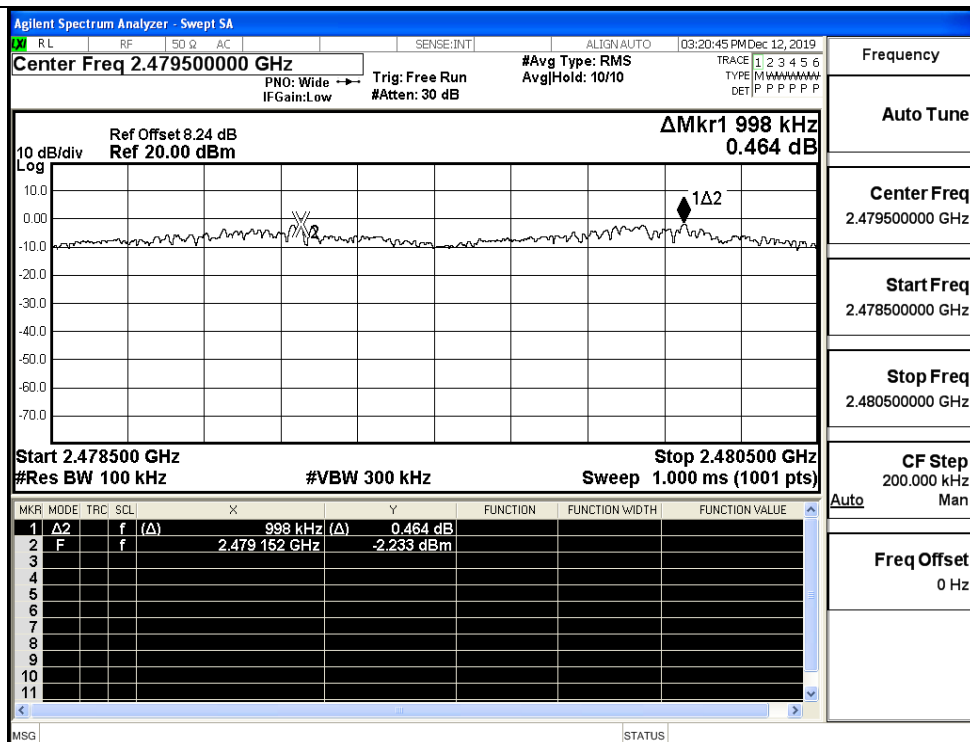
GFSK/MCH



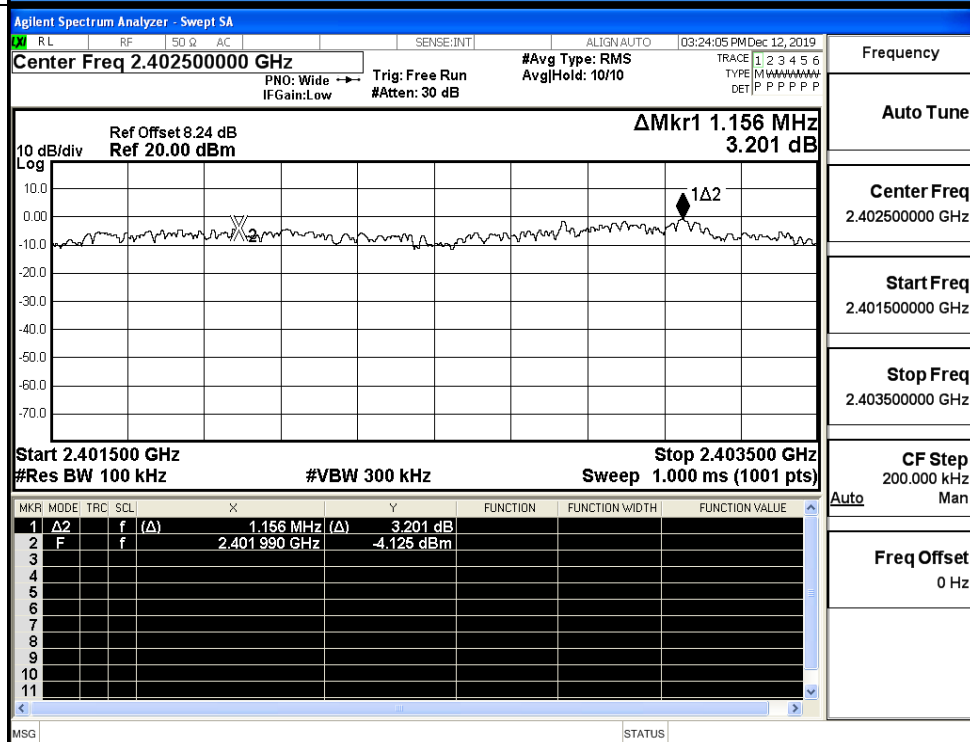
GFSK/HCH



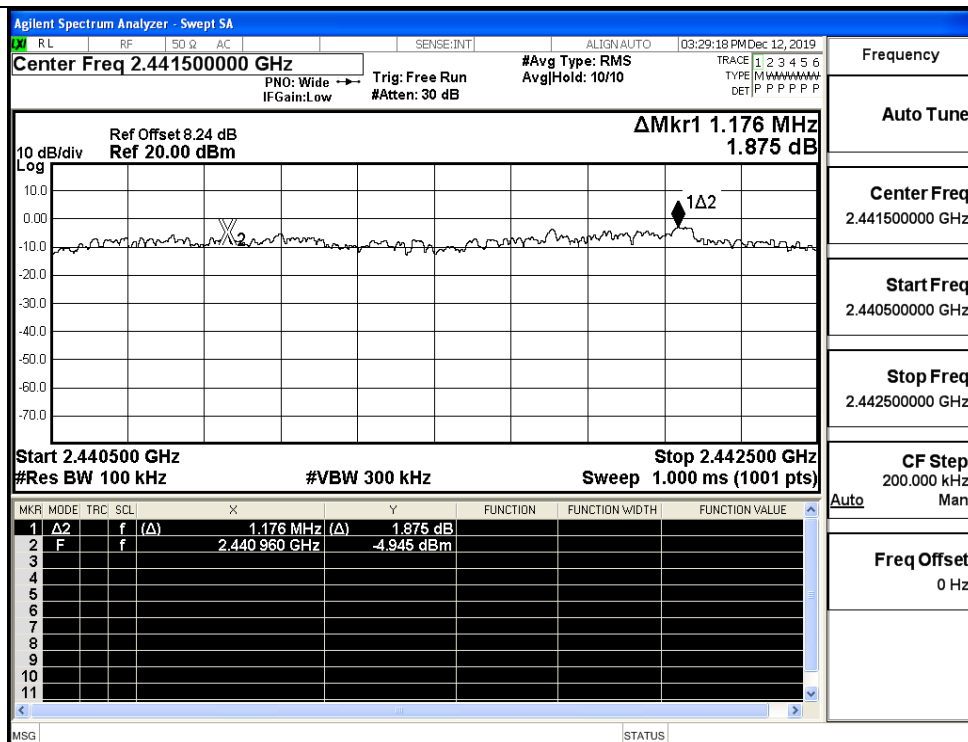
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

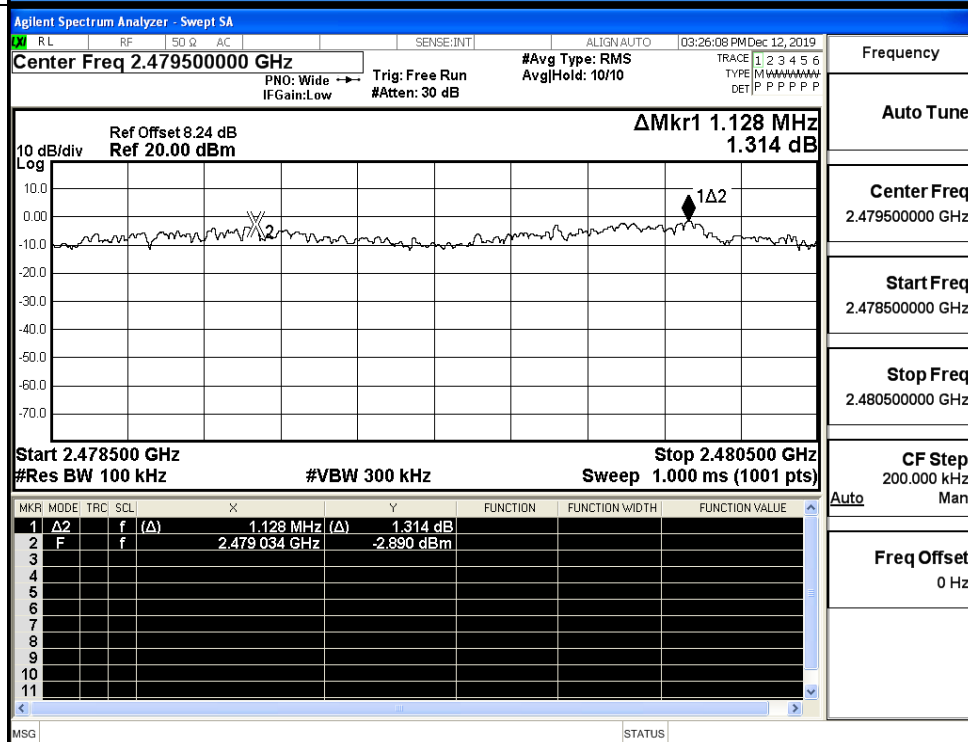
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

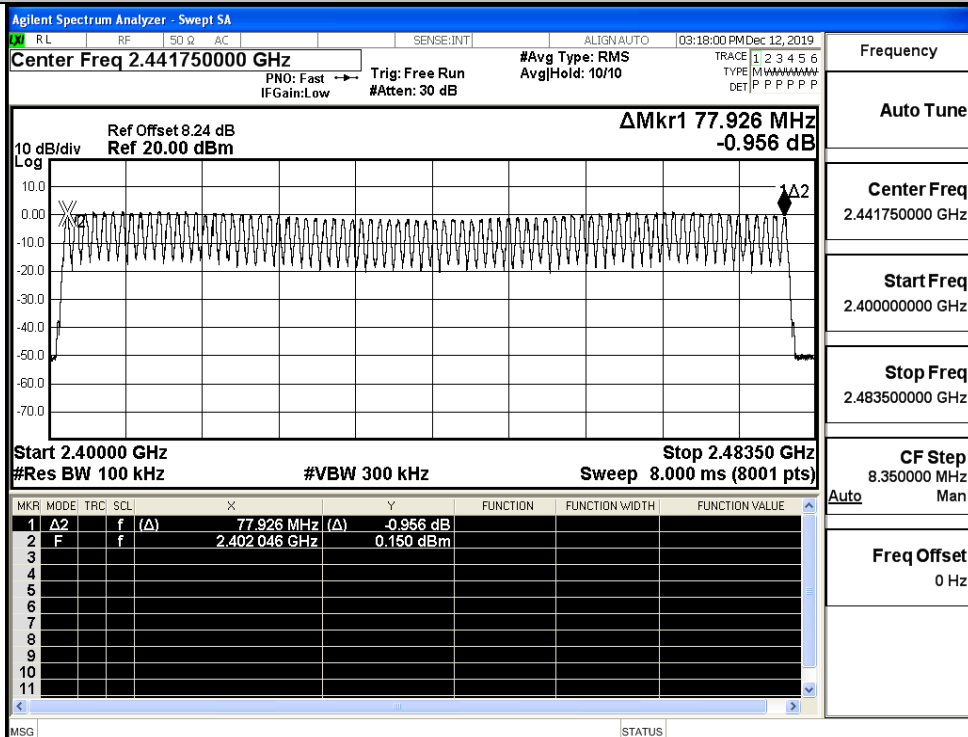
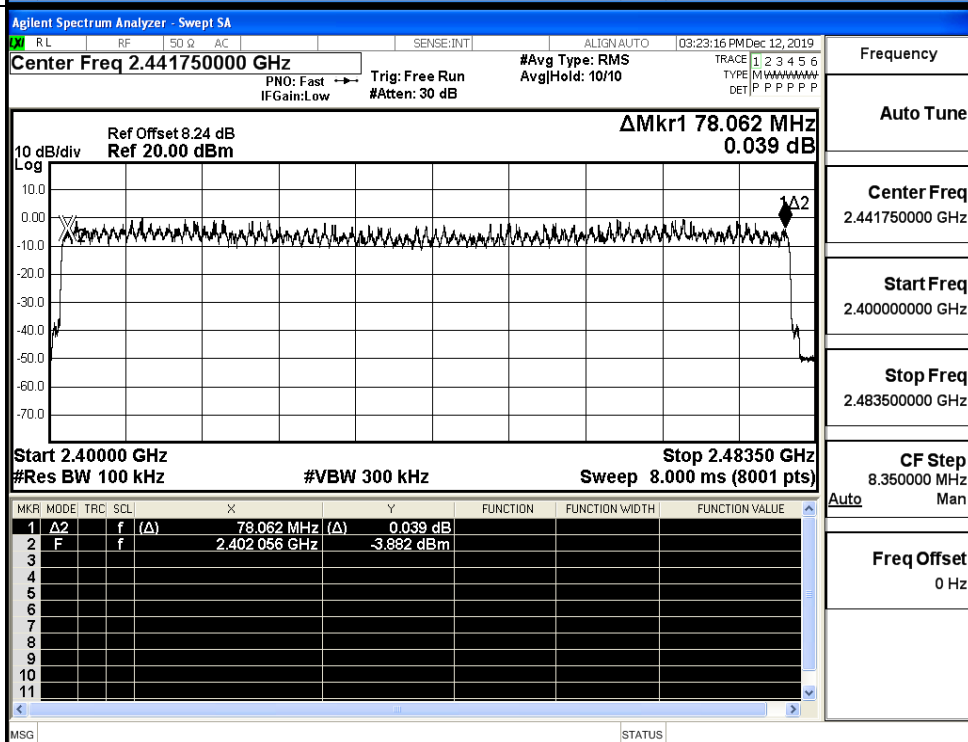


A.4 Hopping Channel Number

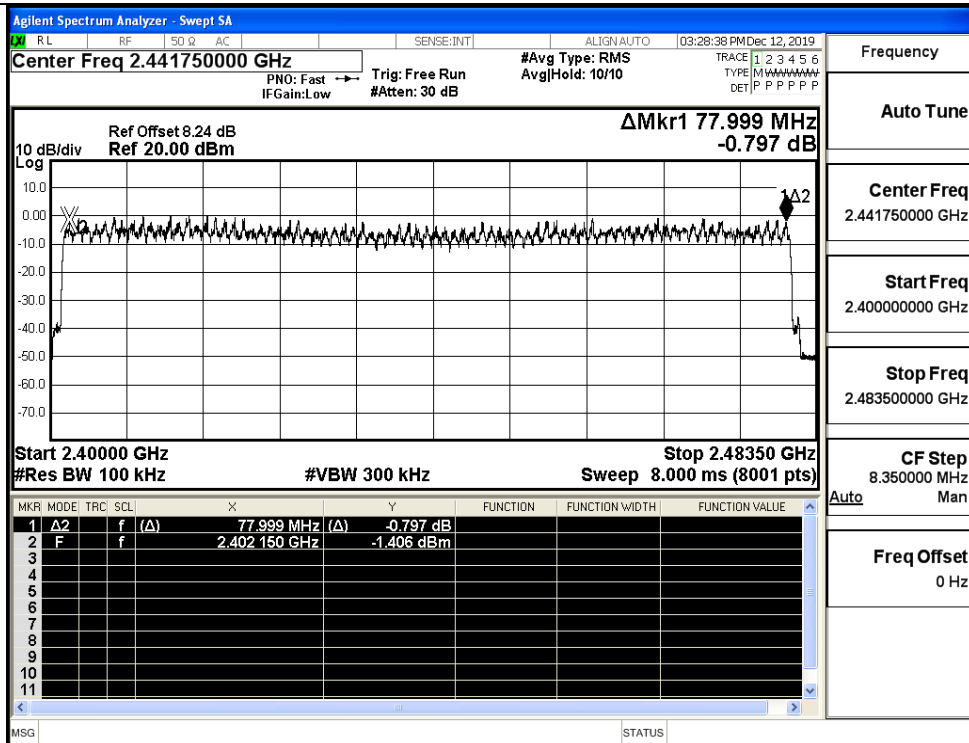
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS
$\pi/4$ DQPSK	Hop	79	>=15	PASS
8DPSK	Hop	79	>=15	PASS

Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

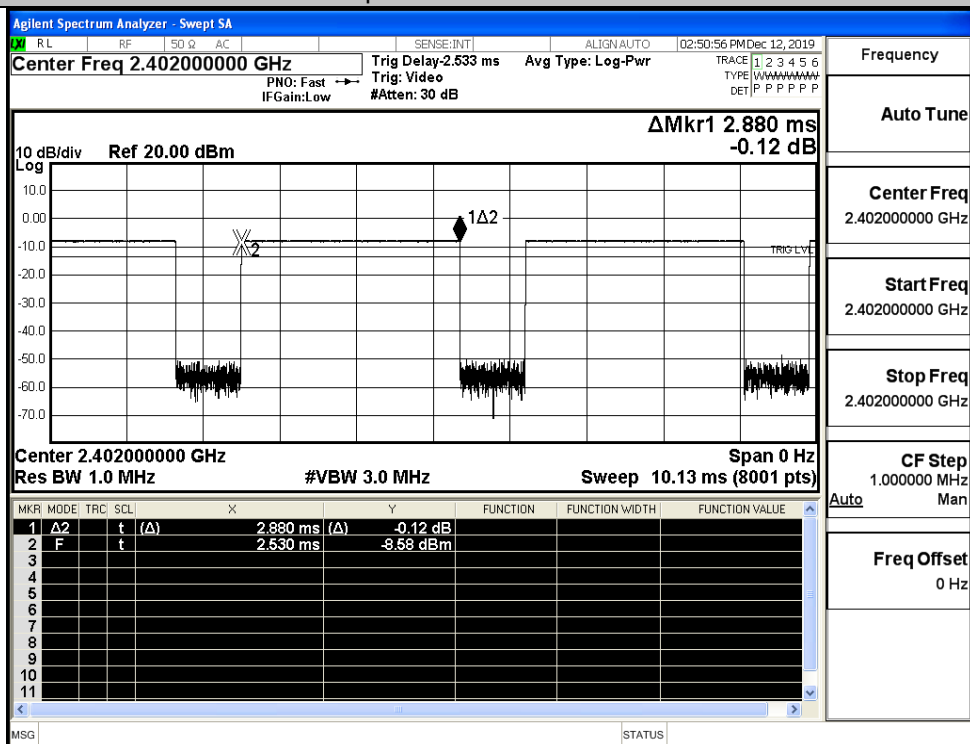


A.5 Dwell Time

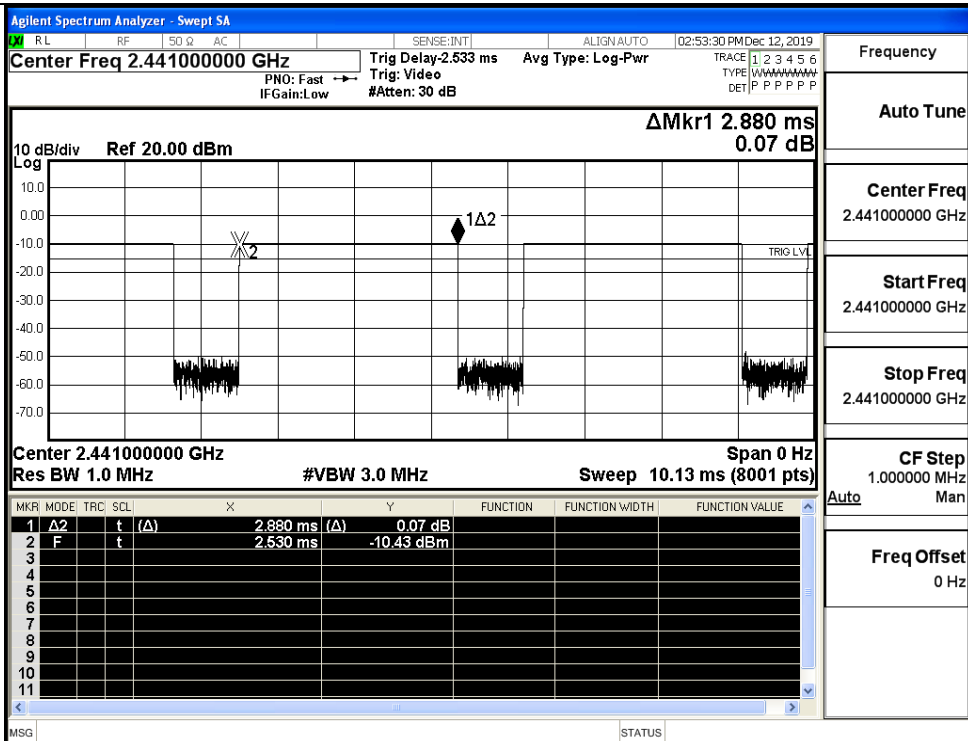
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88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

Test Graphs

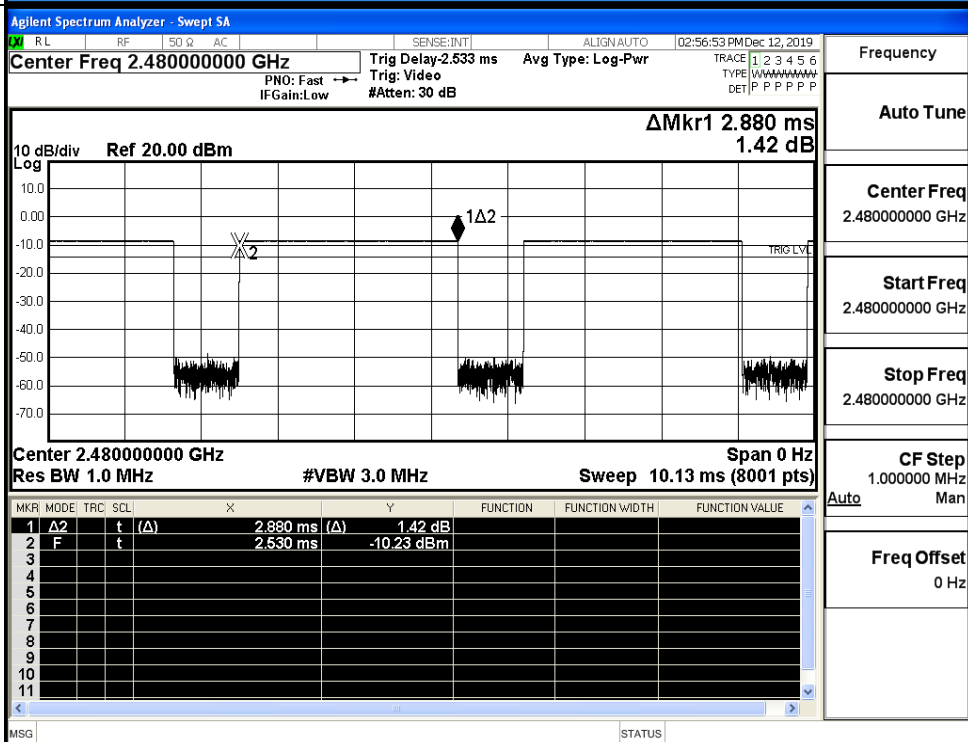
GFSK_DH5/LCH



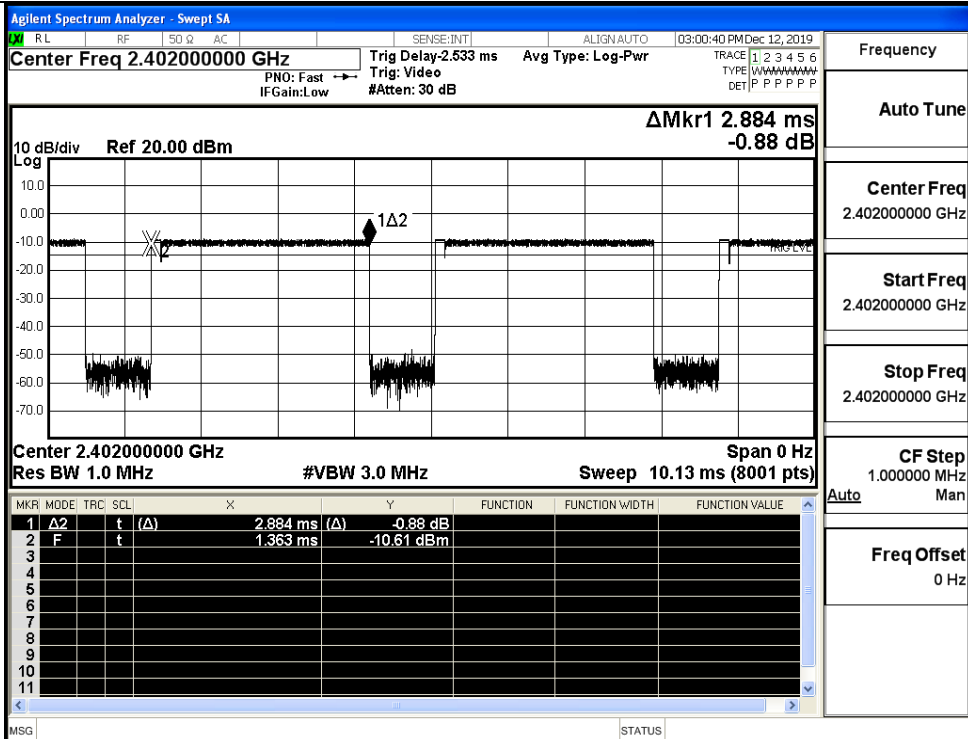
GFSK_DH5/MCH



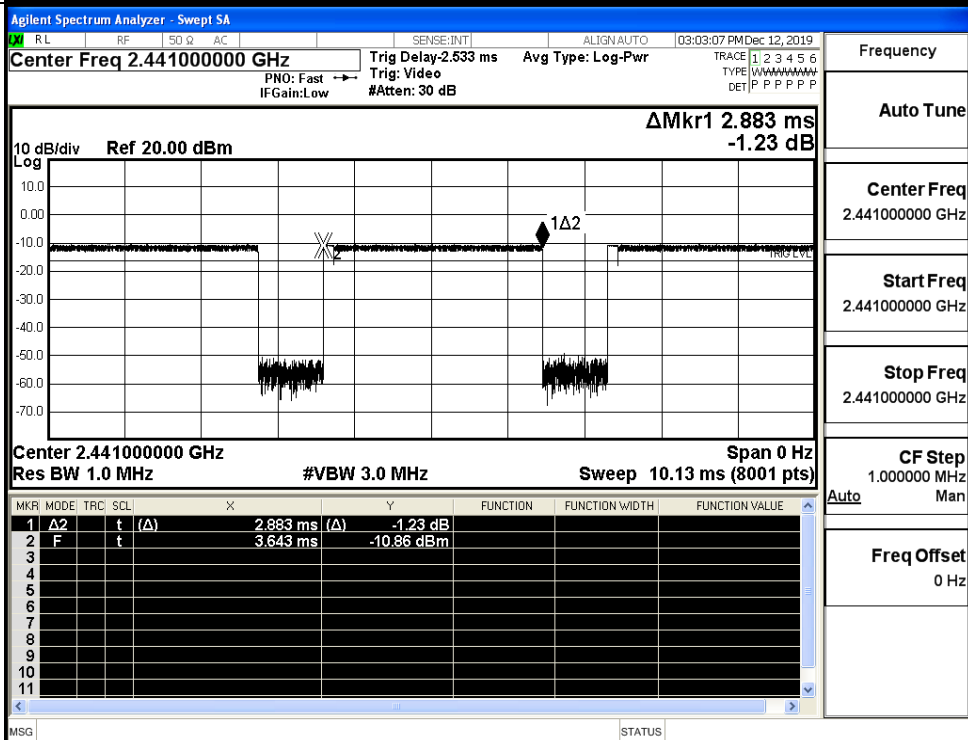
GFSK_DH5/HCH



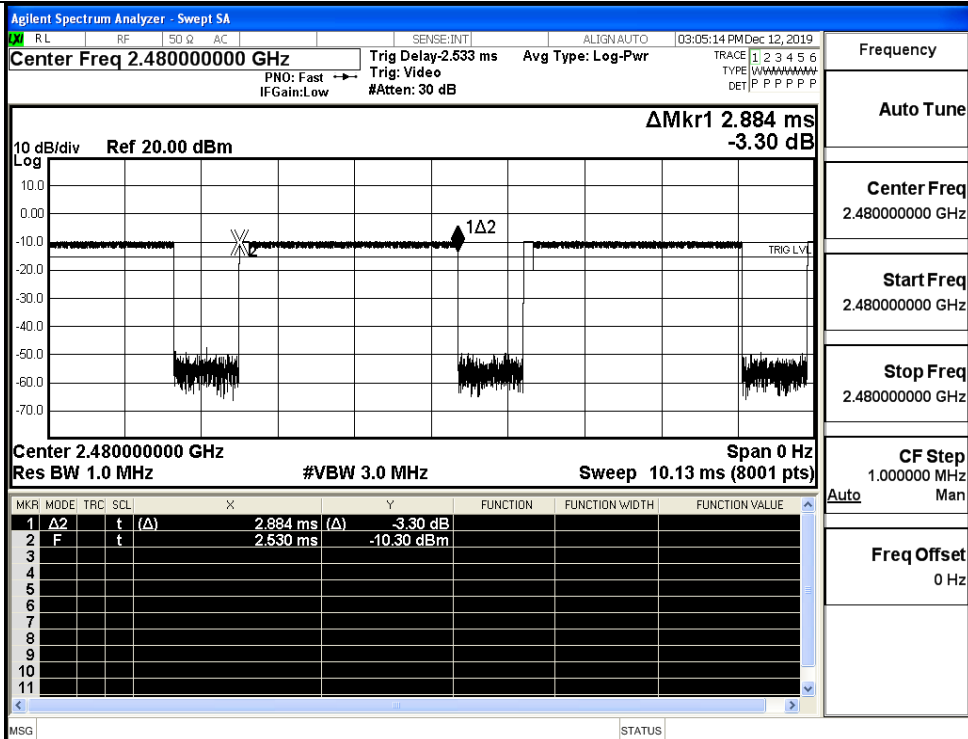
$\pi/4$ DQPSK
_2DH5/LCH



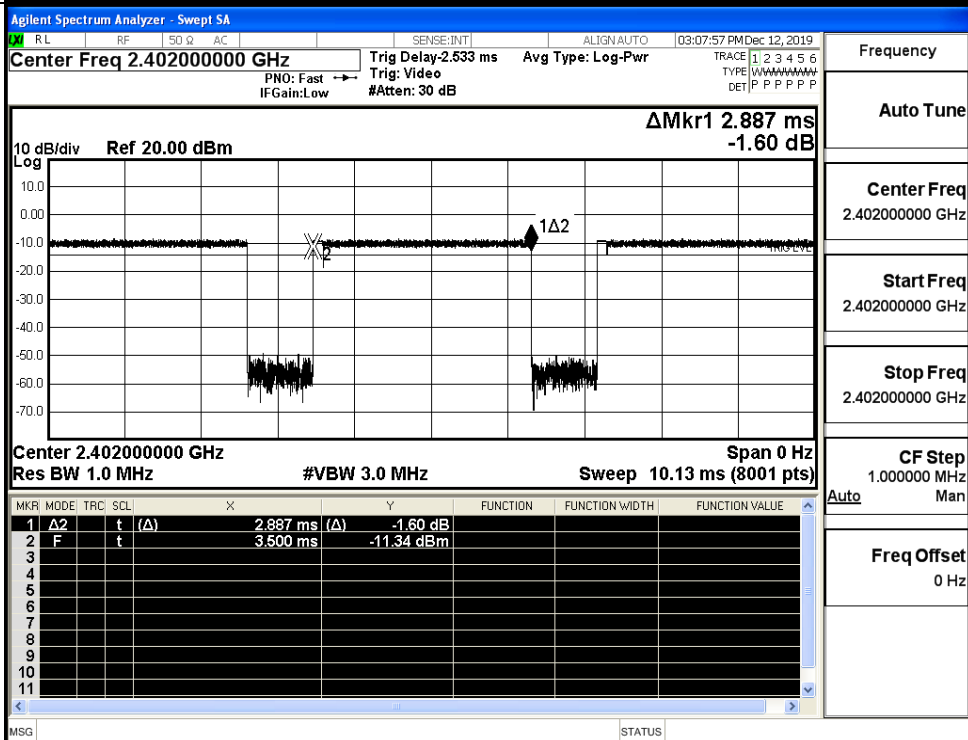
$\pi/4$ DQPSK
_2DH5/MCH



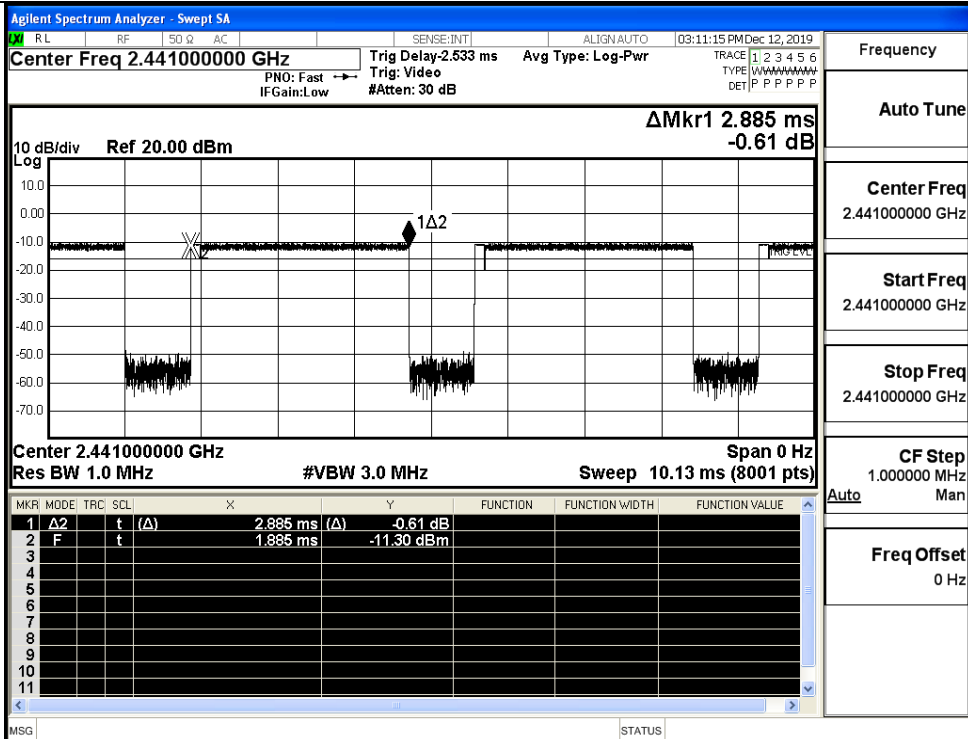
$\pi/4$ DQPSK
_2DH5/HCH



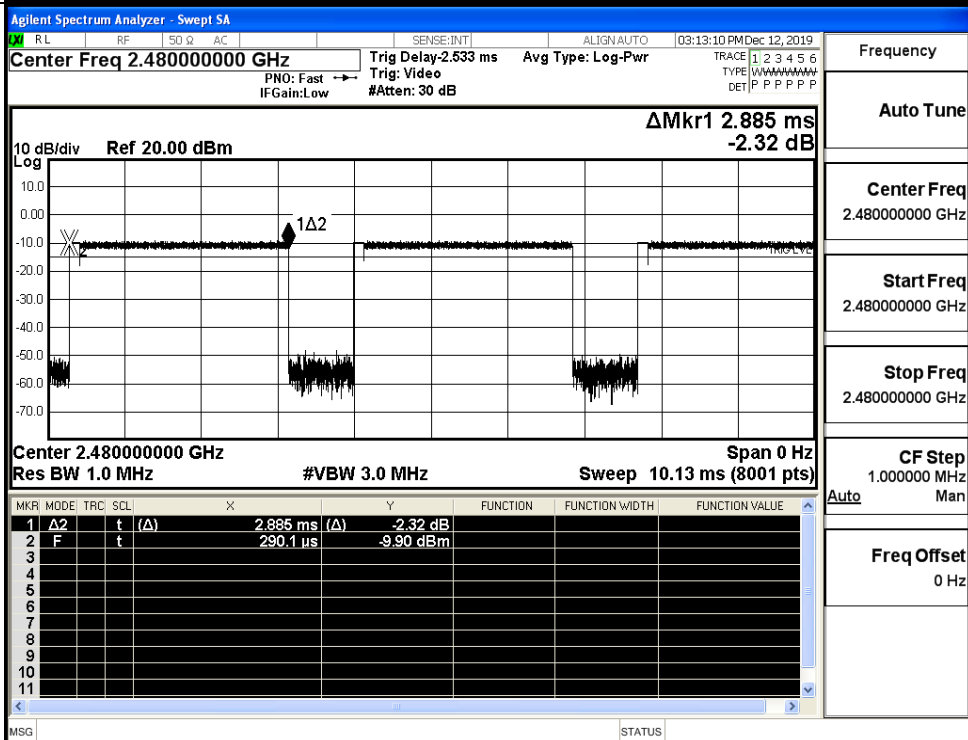
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



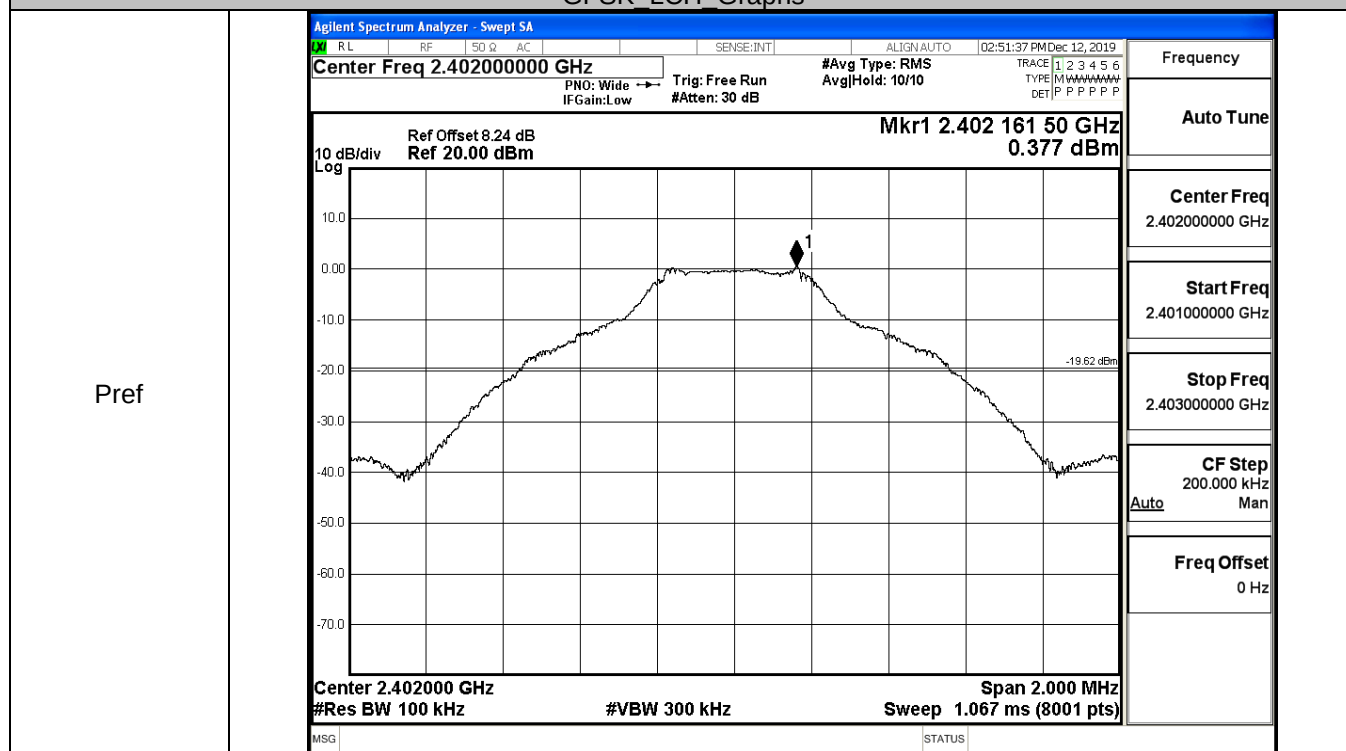
8DPSK_3DH5/HCH

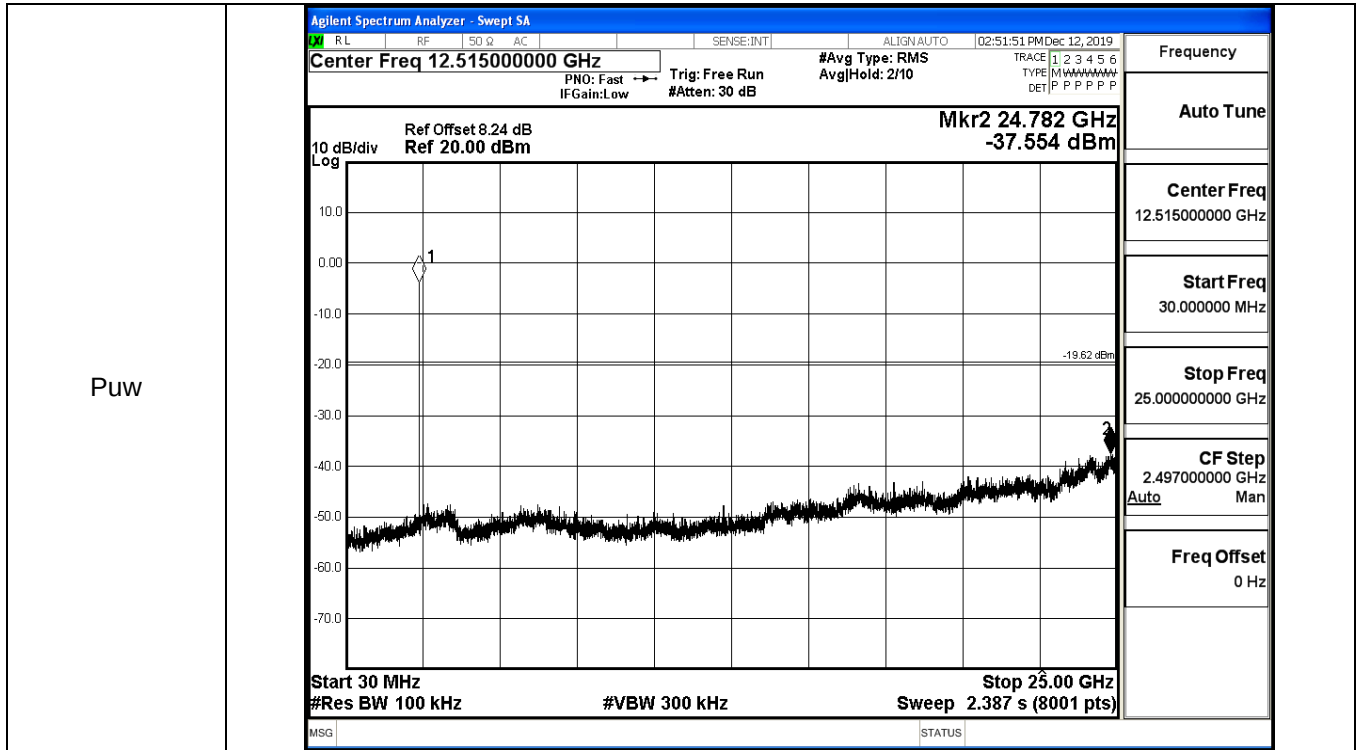


A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.377	-37.554	-19.623	PASS
	MCH	-1.513	-37.563	-21.513	PASS
	HCH	-0.292	-35.672	-20.292	PASS
$\pi/4$ DQPSK	LCH	-0.97	-36.106	-20.970	PASS
	MCH	-2.533	-36.381	-22.533	PASS
	HCH	-1.608	-36.408	-21.608	PASS
8DPSK	LCH	-0.926	-36.919	-20.926	PASS
	MCH	-2.509	-37.288	-22.509	PASS
	HCH	-1.658	-34.874	-21.658	PASS

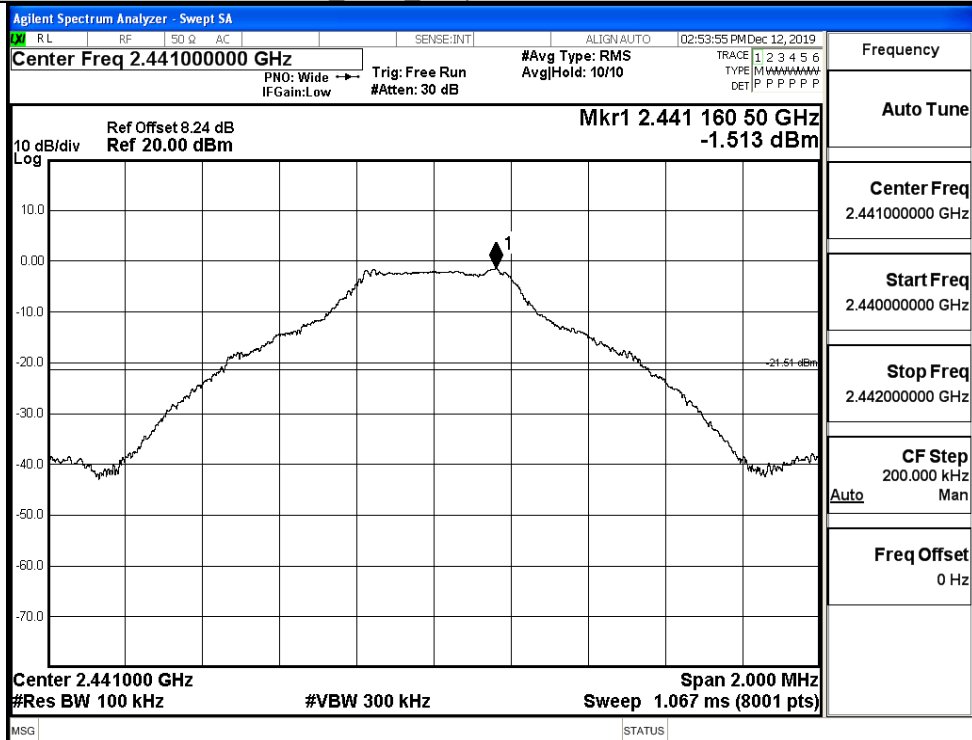
GFSK LCH Graphs



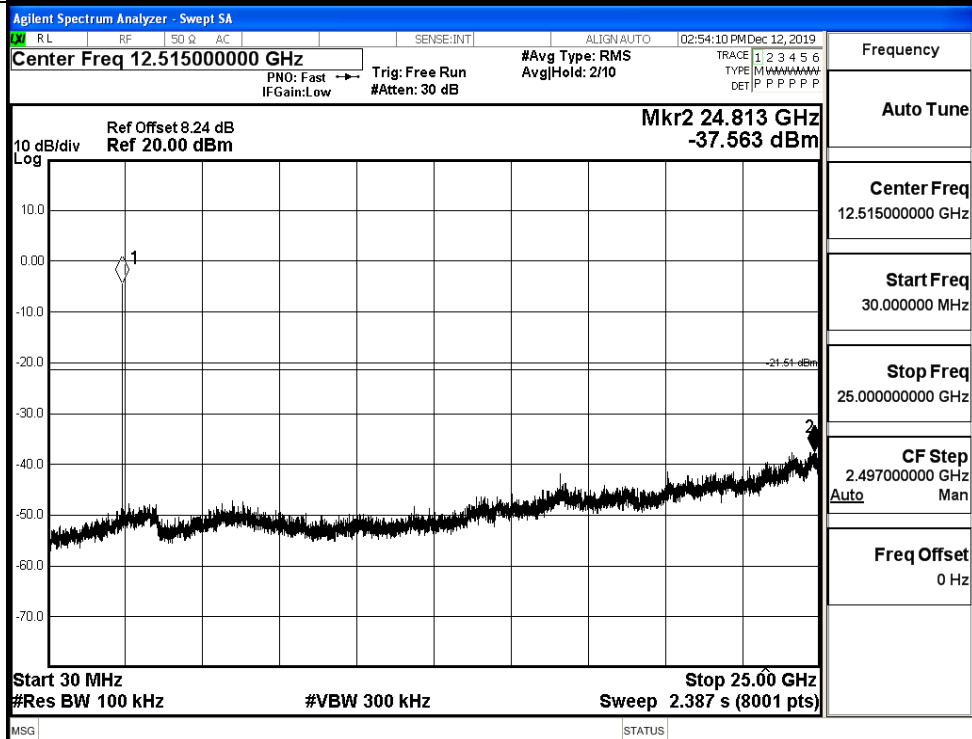


GFSK_MCH_Graphs

Pref

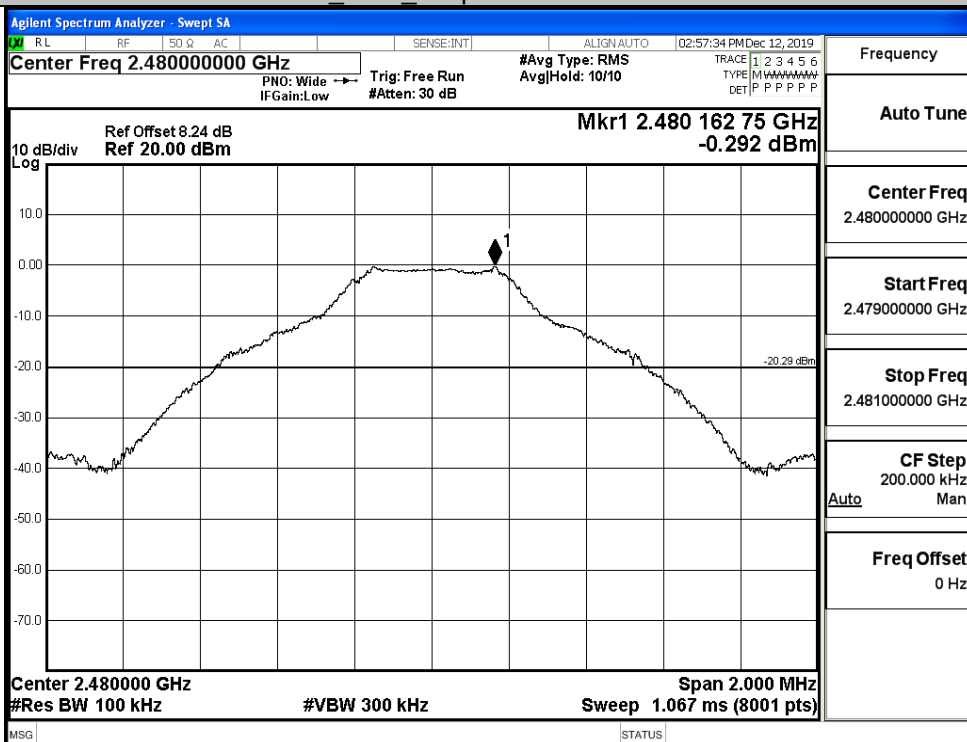


Puw

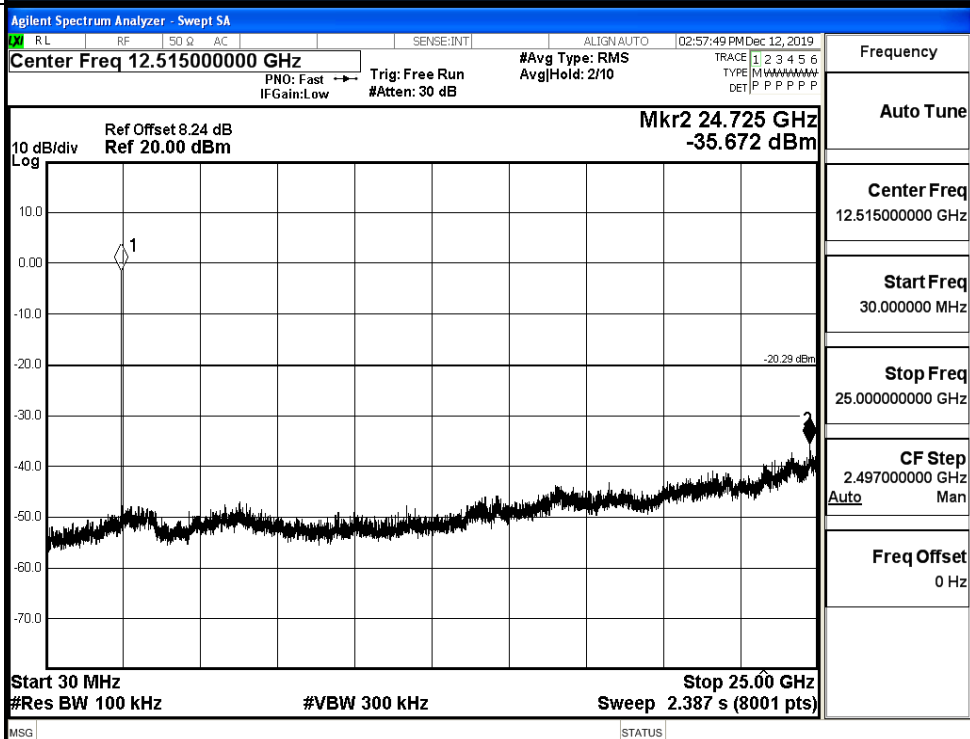


GFSK HCH Graphs

Pref

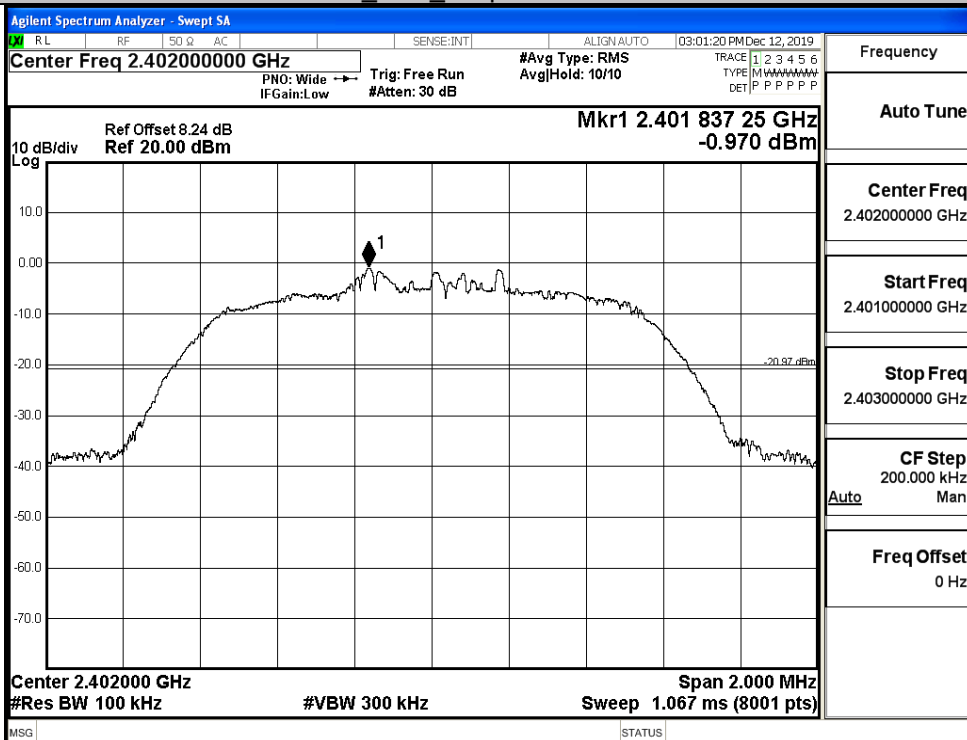


Puw

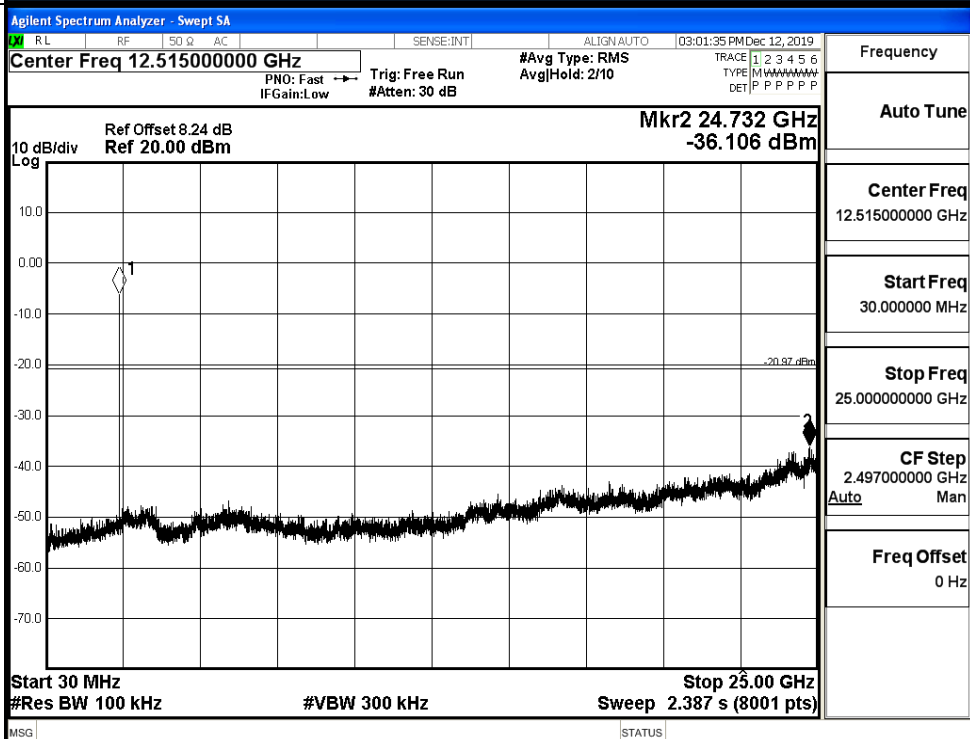


$\pi/4$ DQPSK_LCH_Graphs

Pref

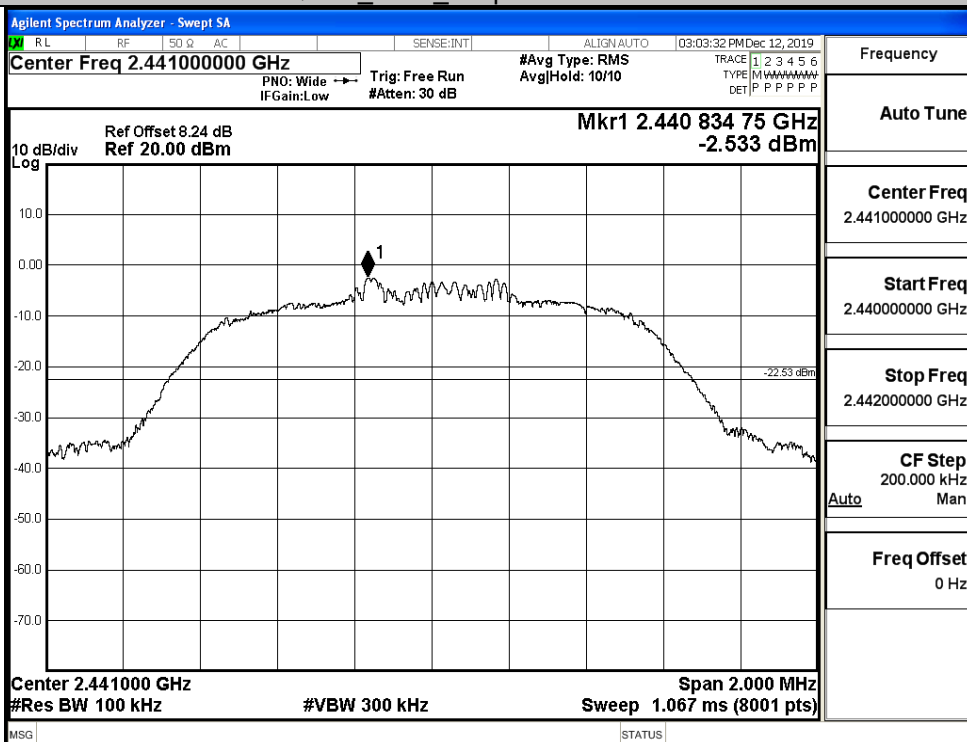


Puw

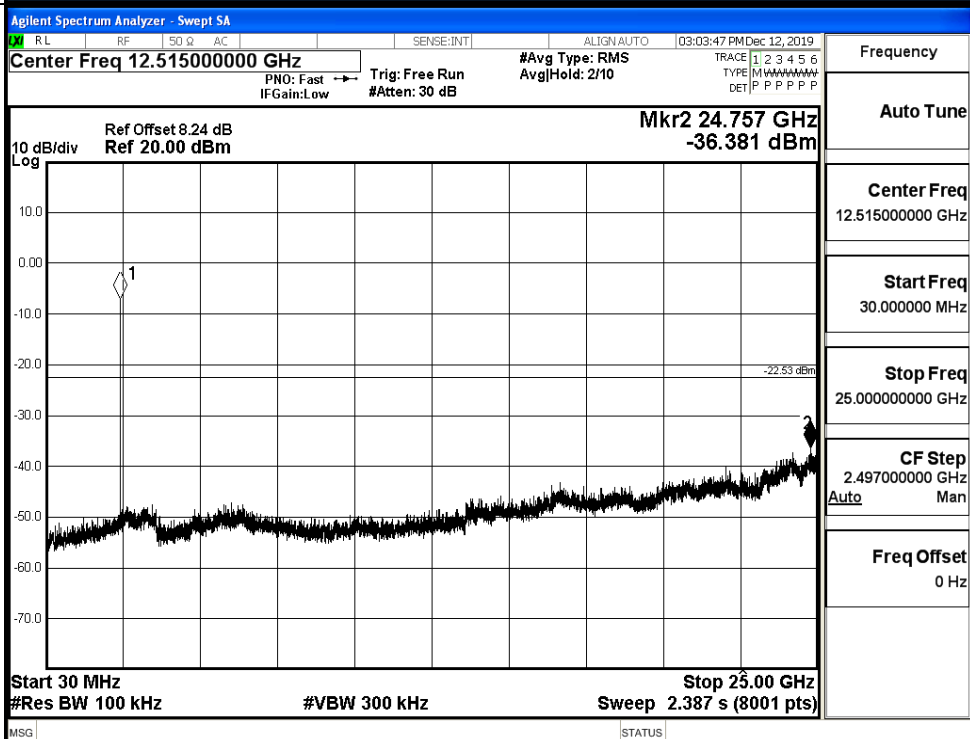


π /4DQPSK_MCH_Graphs

Pref

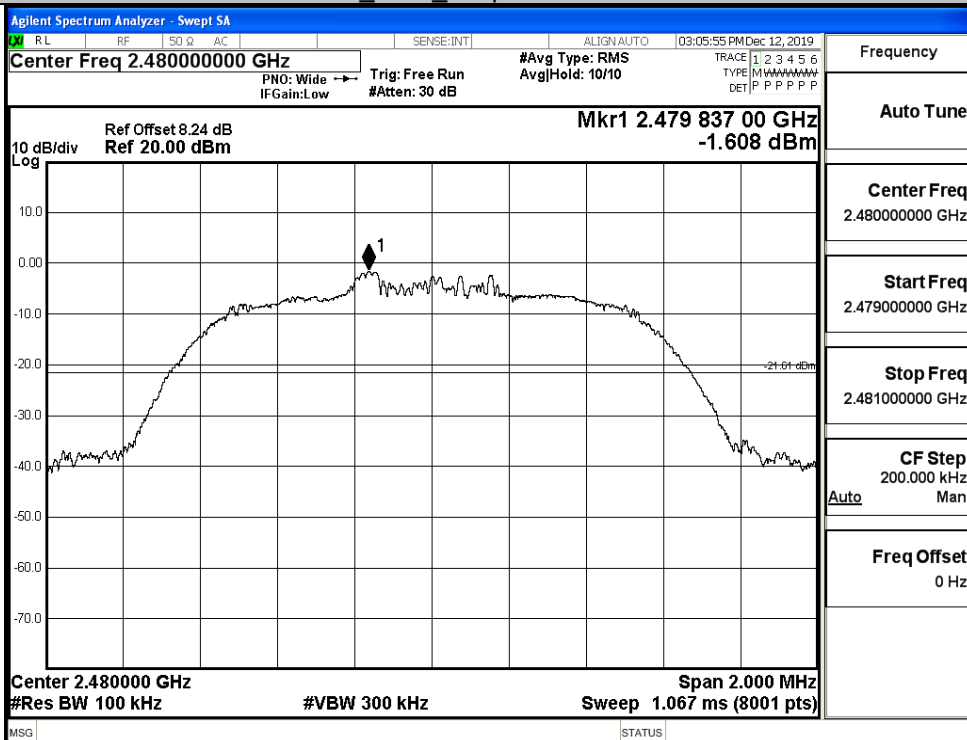


Puw

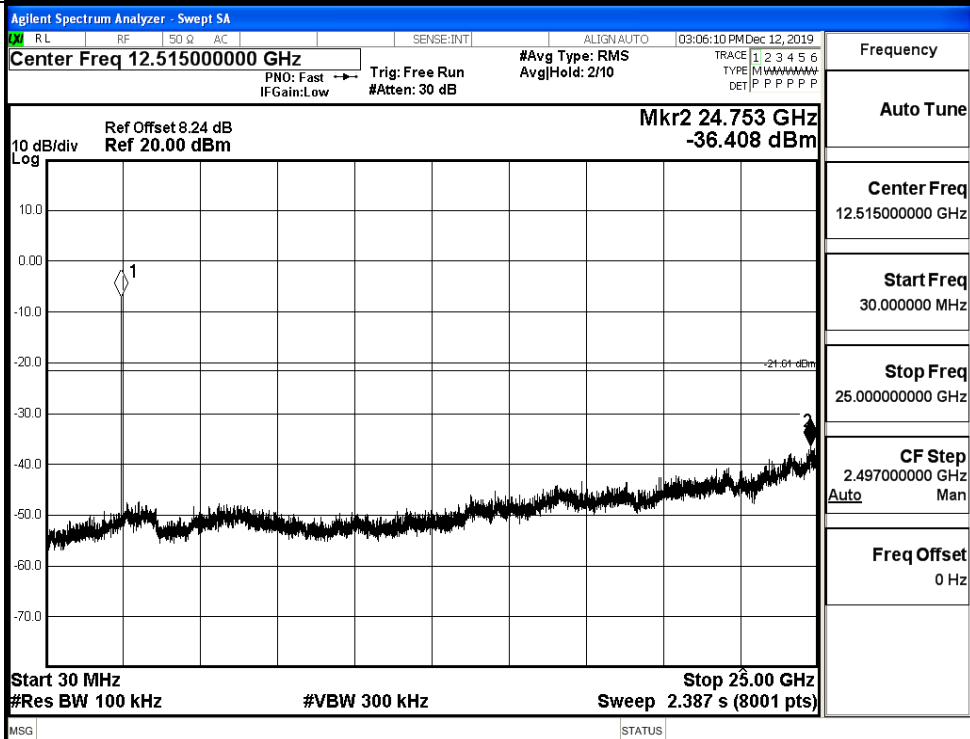


π /4DQPSK_HCH_Graphs

Pref

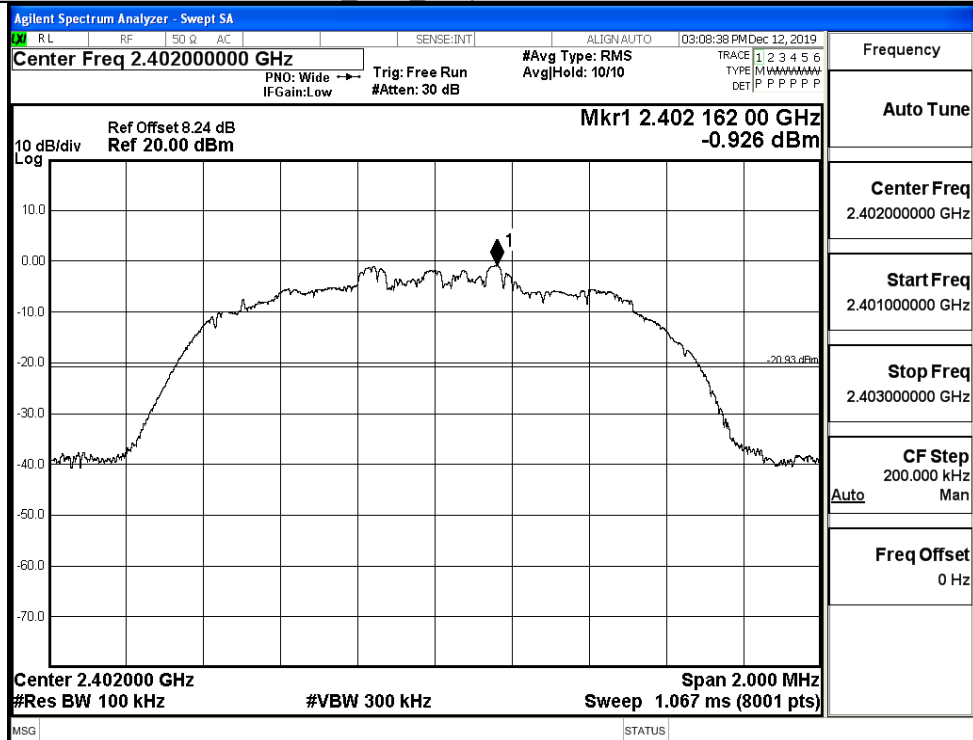


Puw

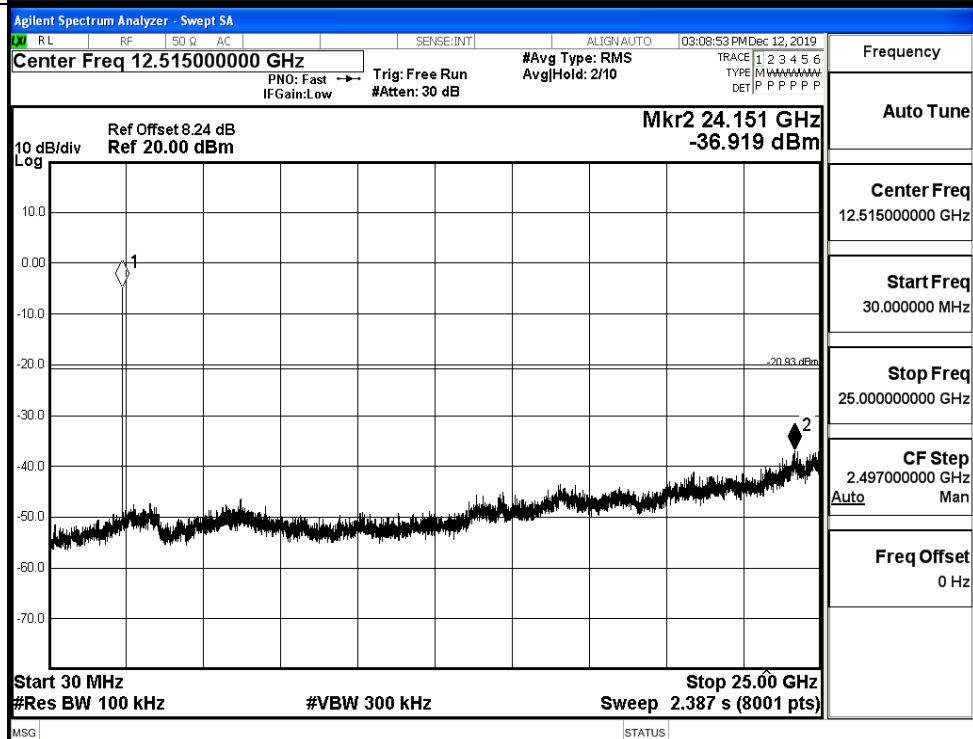


8DPSK_LCH_Graphs

Pref

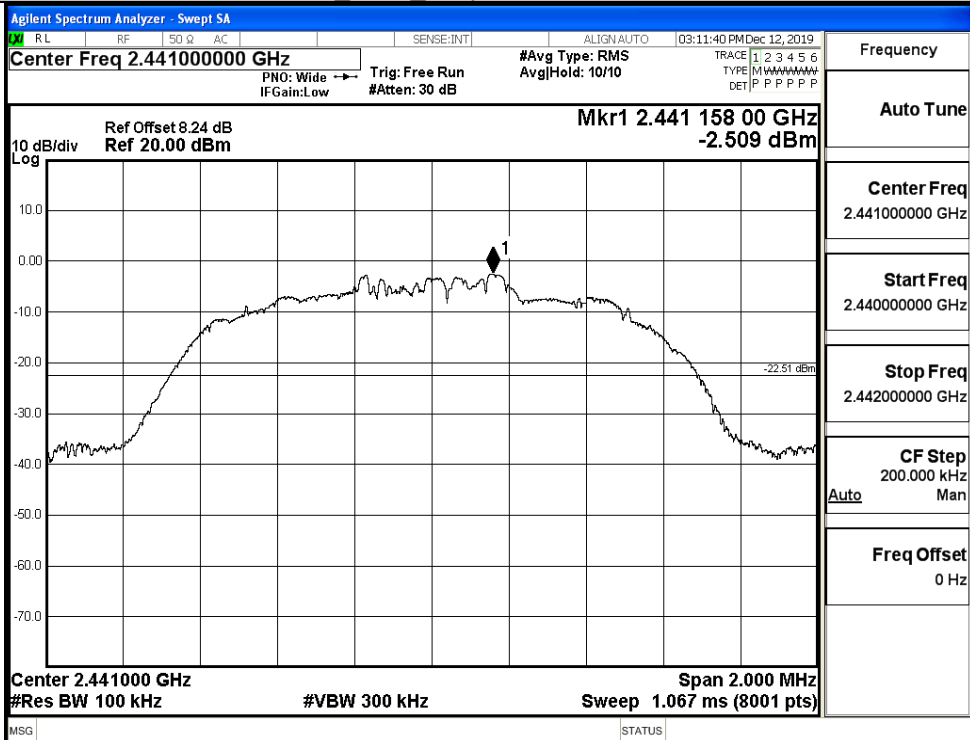


Puw

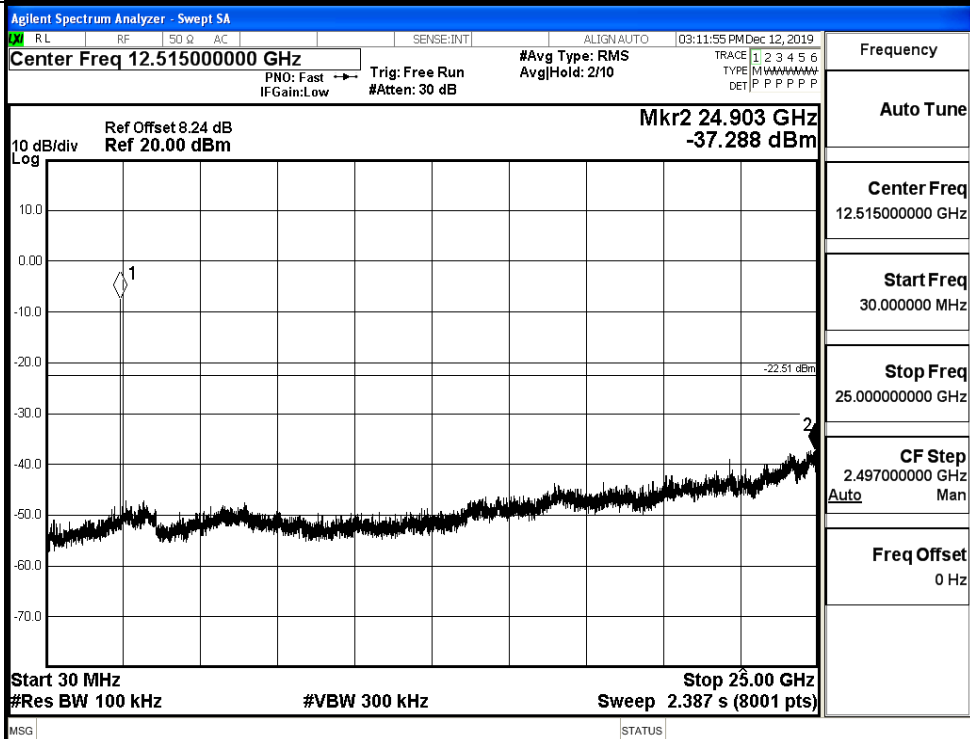


8DPSK_MCH_Graphs

Pref

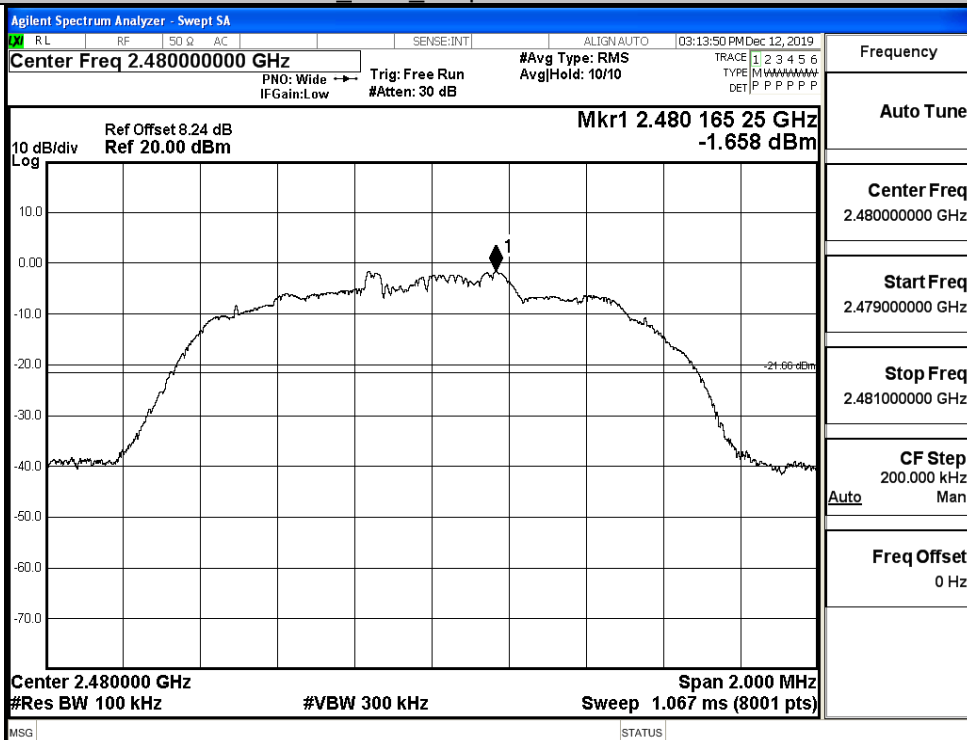


Puw

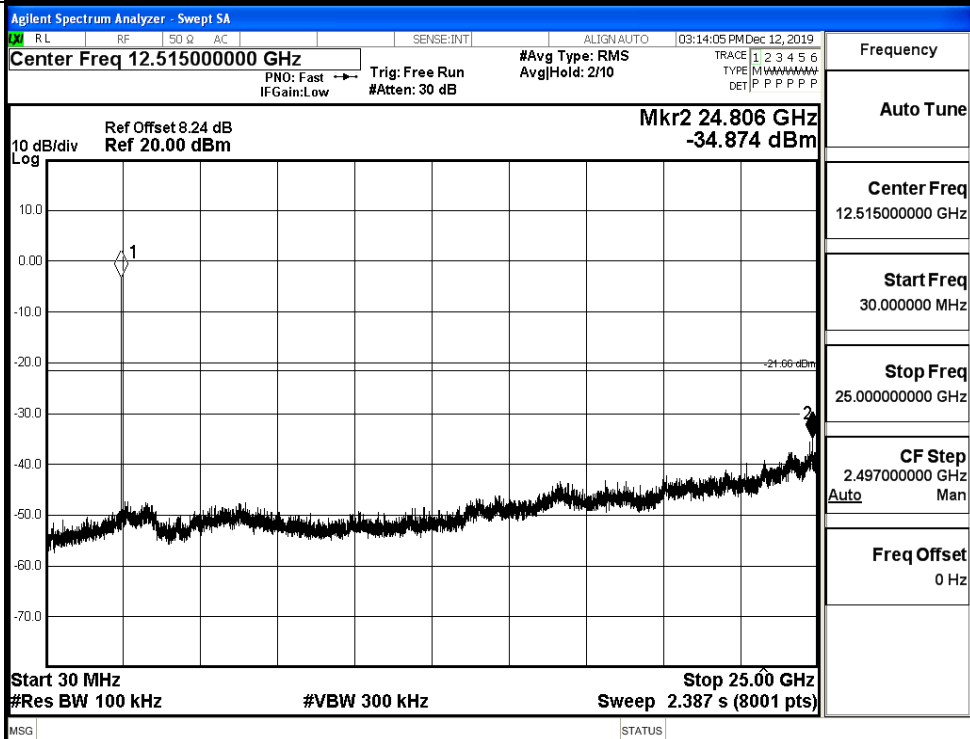


8DPSK_HCH_Graphs

Pref



Puw

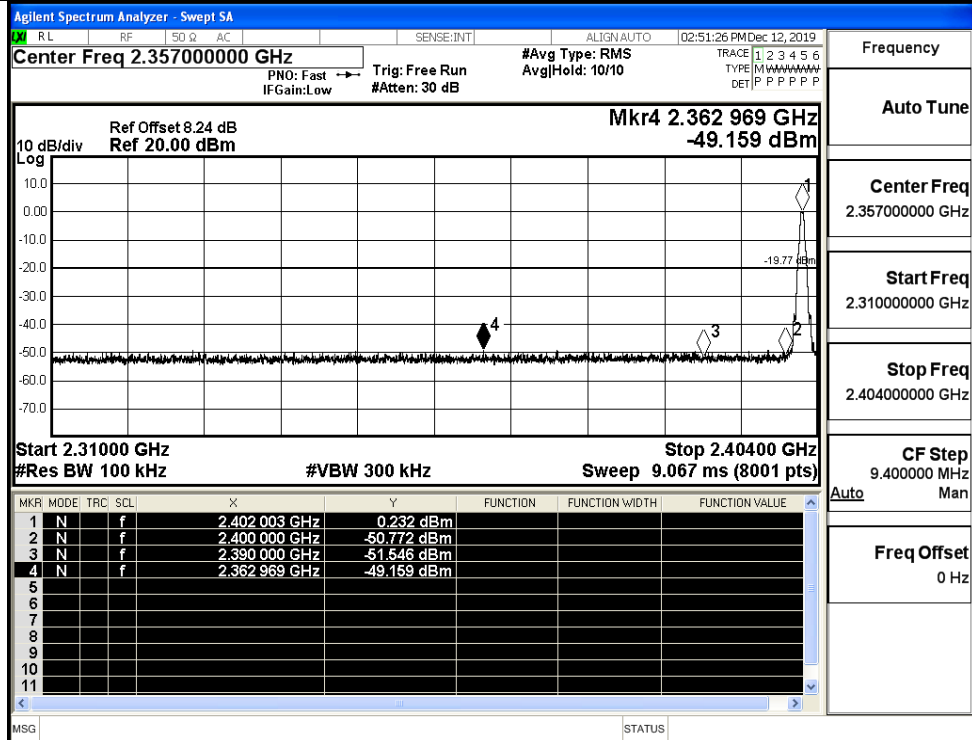


A.7 Band-edge for RF Conducted Emissions

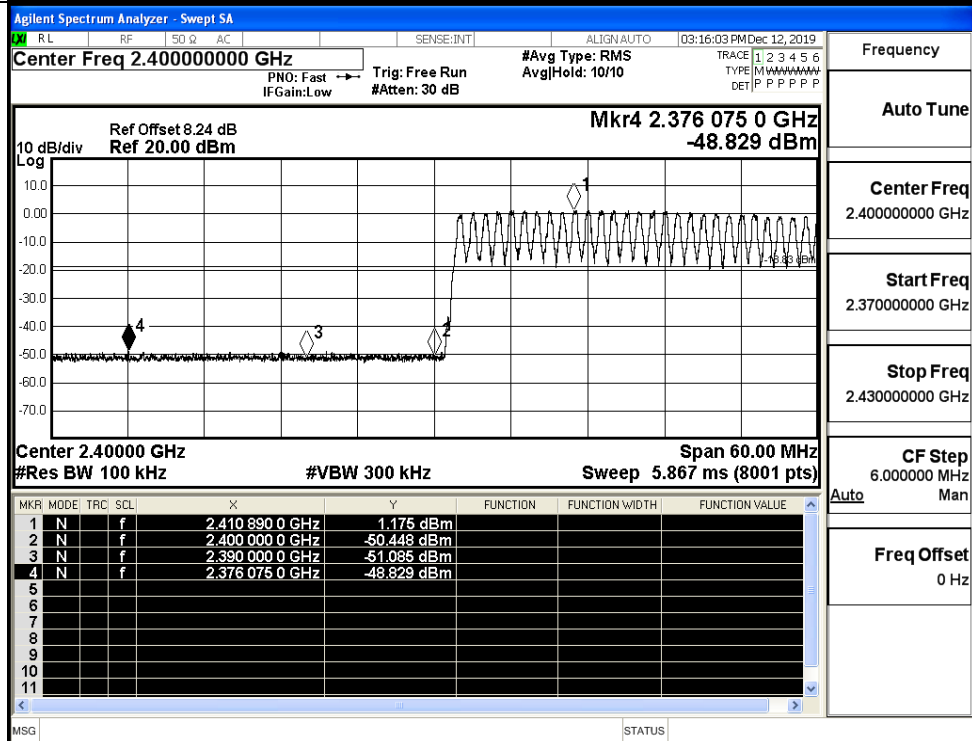
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	0.232	Off	-49.159	-19.77	PASS
			1.175	On	-48.829	-18.83	PASS
	HCH	2480	-0.296	Off	-48.528	-20.3	PASS
			1.135	On	-47.908	-18.87	PASS
$\pi/4$ DQPSK	LCH	2402	-0.852	Off	-47.934	-20.85	PASS
			-0.101	On	-48.628	-20.1	PASS
	HCH	2480	-1.909	Off	-48.630	-21.91	PASS
			-0.568	On	-47.800	-20.57	PASS
8DPSK	LCH	2402	-3.058	Off	-49.012	-23.06	PASS
			0.009	On	-48.515	-19.99	PASS
	HCH	2480	-1.666	Off	-48.759	-21.67	PASS
			-0.399	On	-47.779	-20.4	PASS

Test Graphs

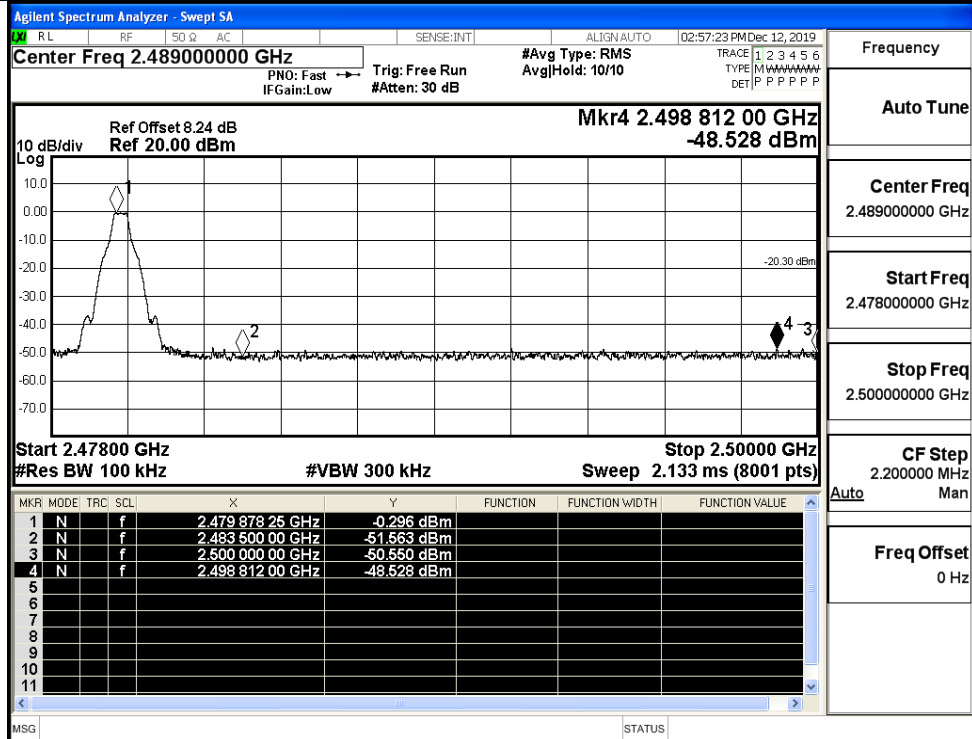
GFSK/LCH/No Hop



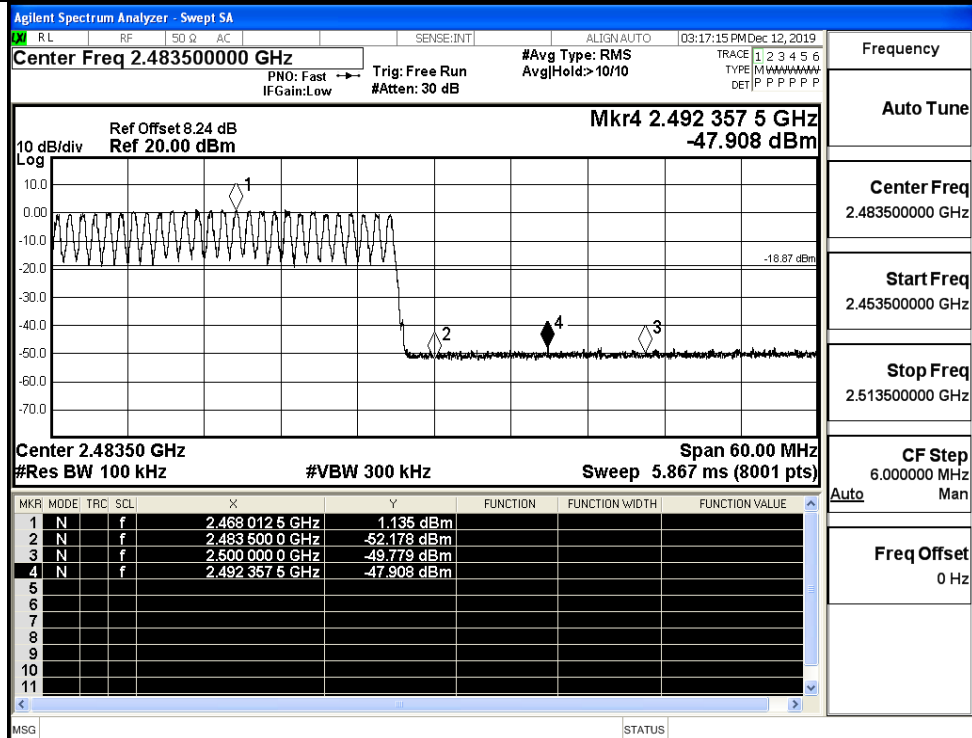
GFSK/LCH/Hop



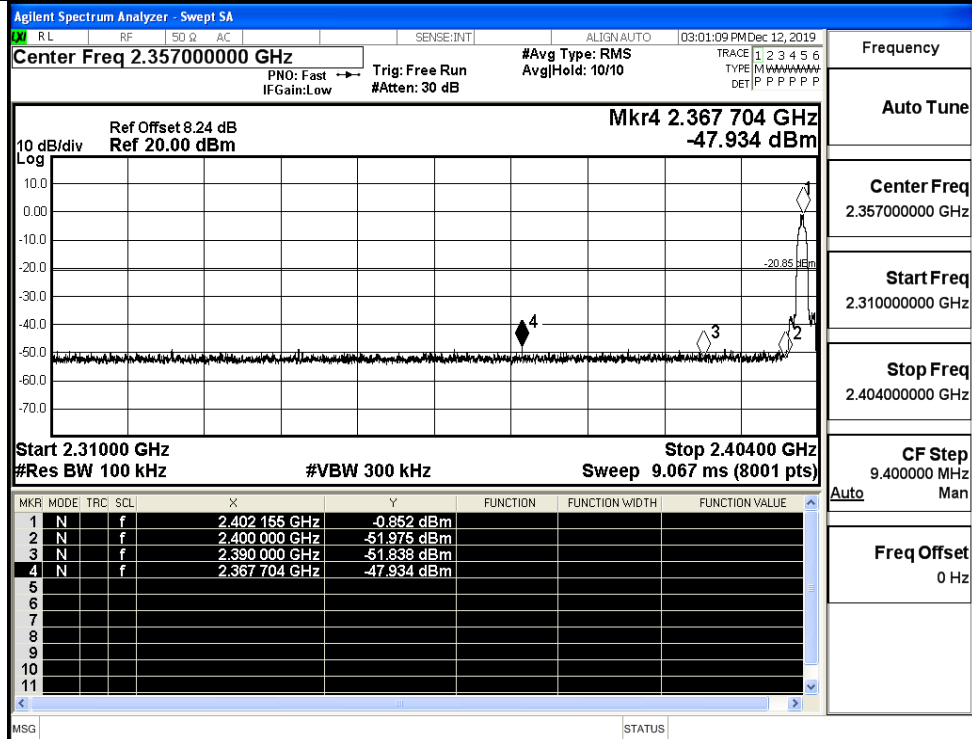
GFSK/HCH/No Hop



GFSK/HCH/Hop



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



Frequency

Auto Tune

Center Freq
2.357000000 GHz

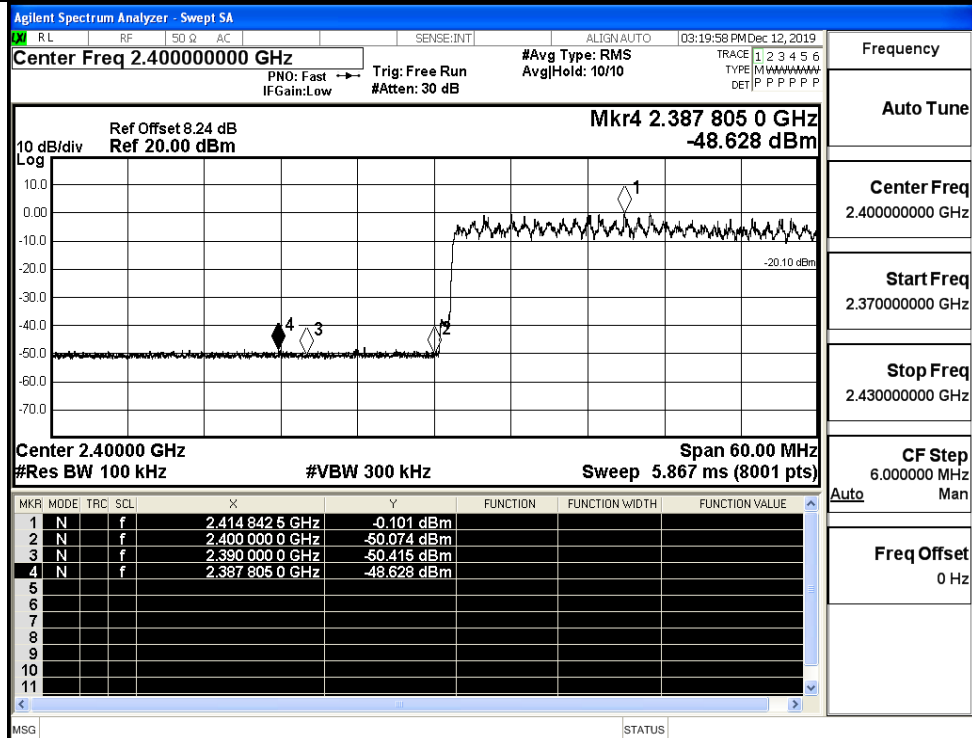
Start Freq
2.310000000 GHz

Stop Freq
2.404000000 GHz

CF Step
9.400000 MHz
Auto Man

Freq Offset
0 Hz

$\pi/4$ DQPSK/LCH/Hop



Frequency

Auto Tune

Center Freq
2.400000000 GHz

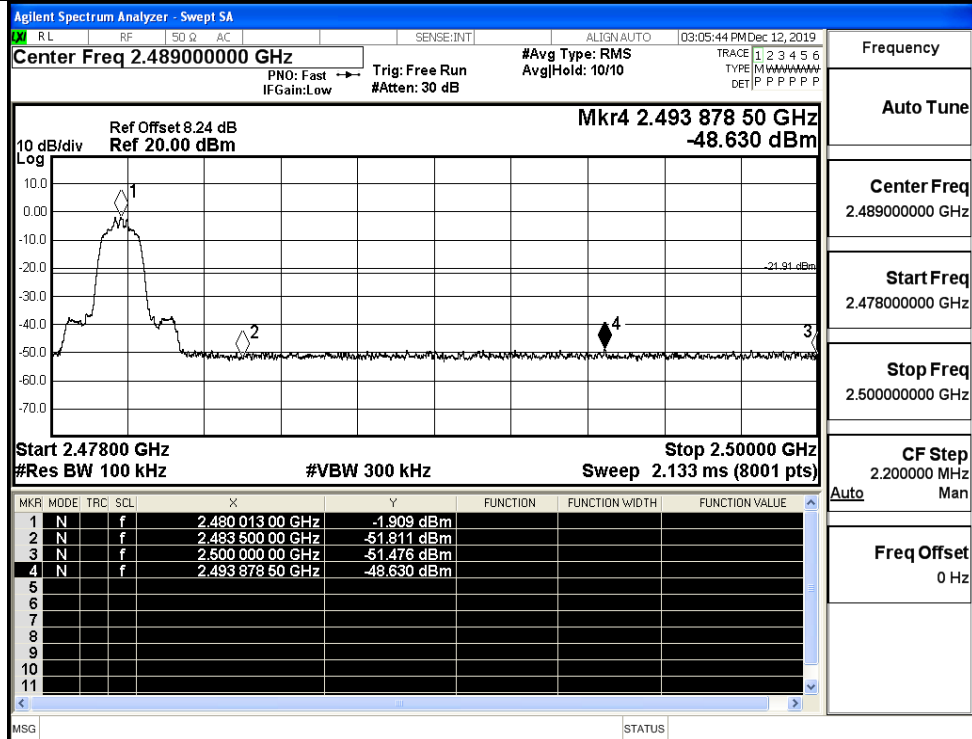
Start Freq
2.370000000 GHz

Stop Freq
2.430000000 GHz

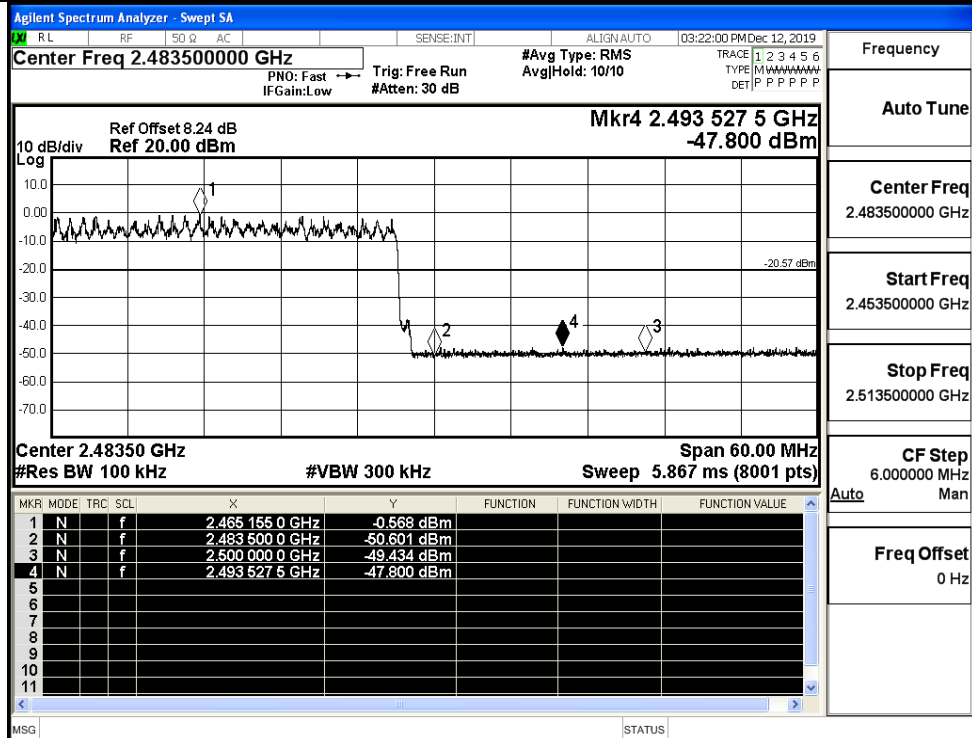
CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

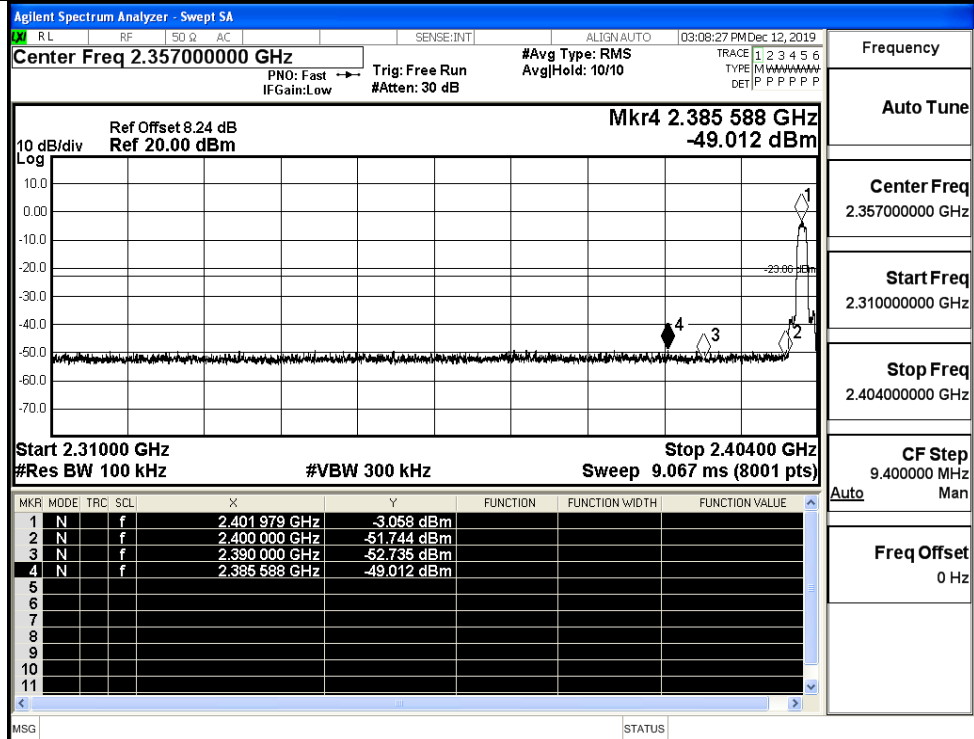
$\pi/4$ DQPSK/HCH/No
Hop



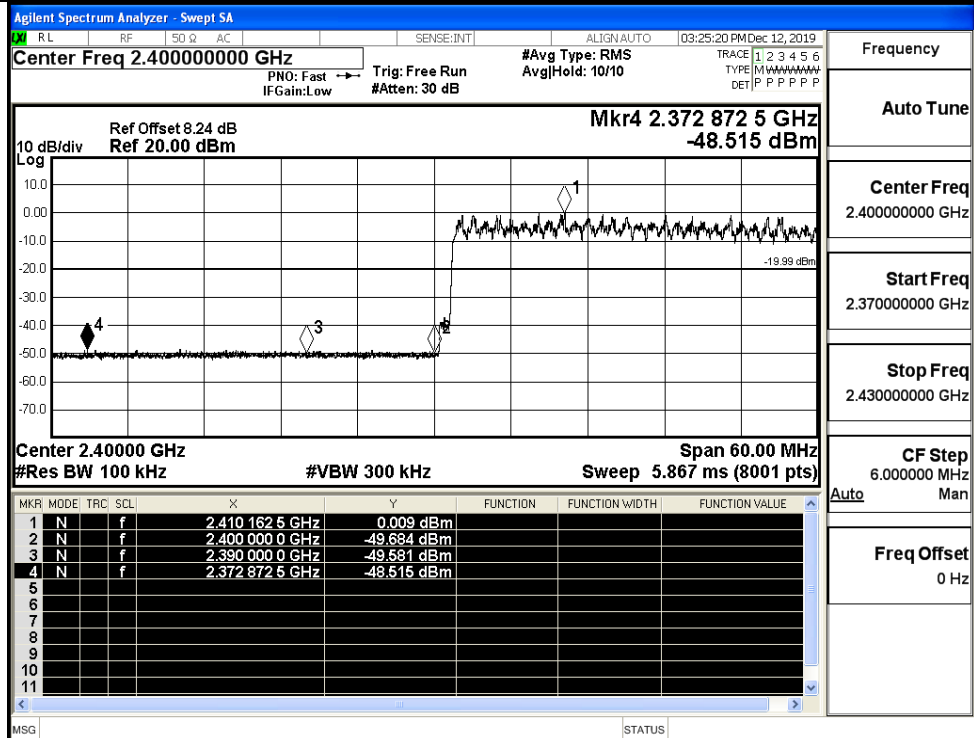
$\pi/4$ DQPSK/HCH/Hop



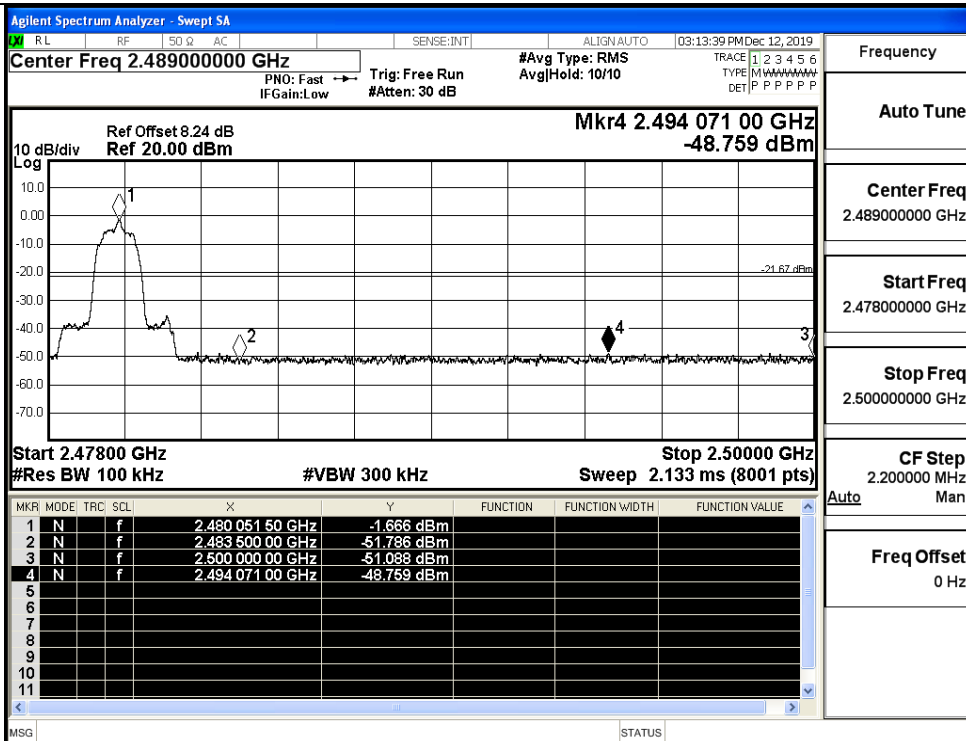
8DPSK/LCH/No Hop



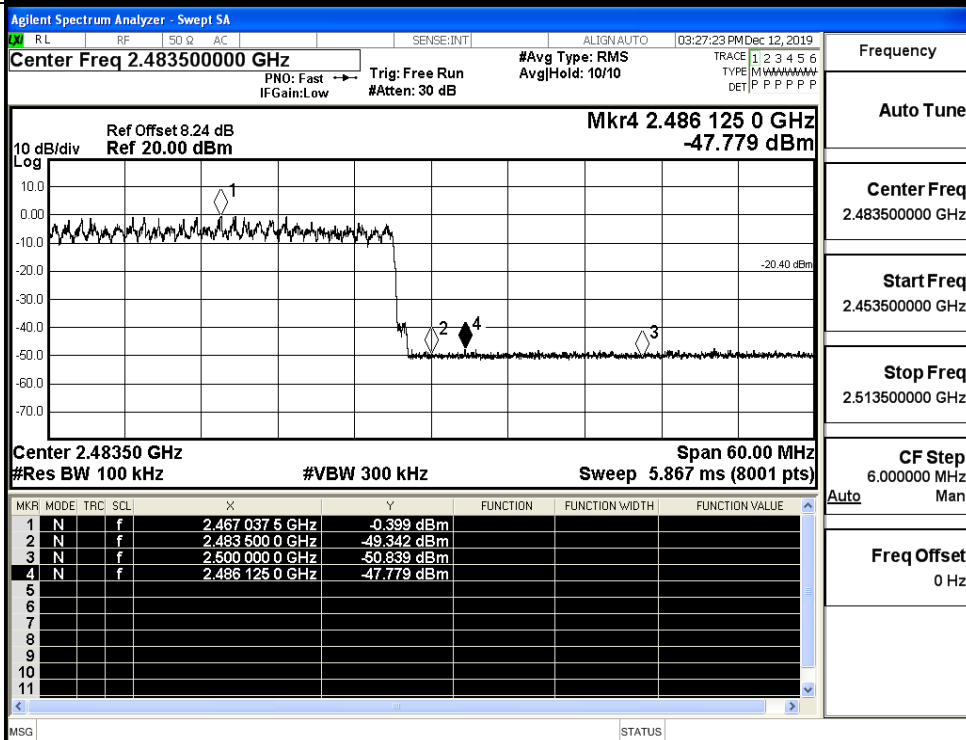
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



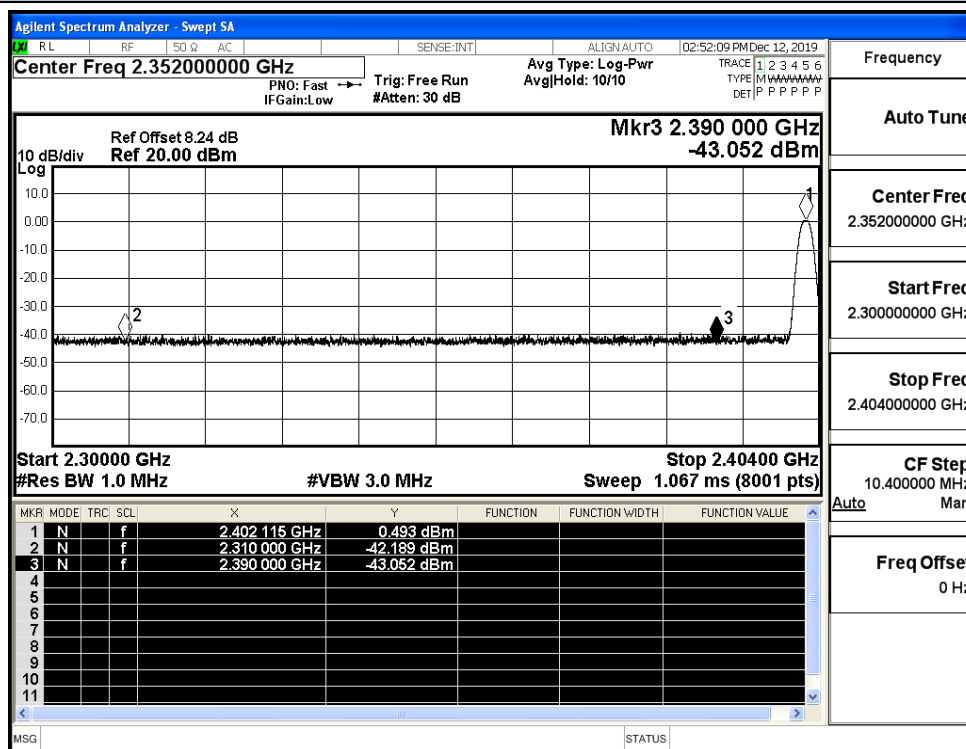
8DPSK/HCH/Hop



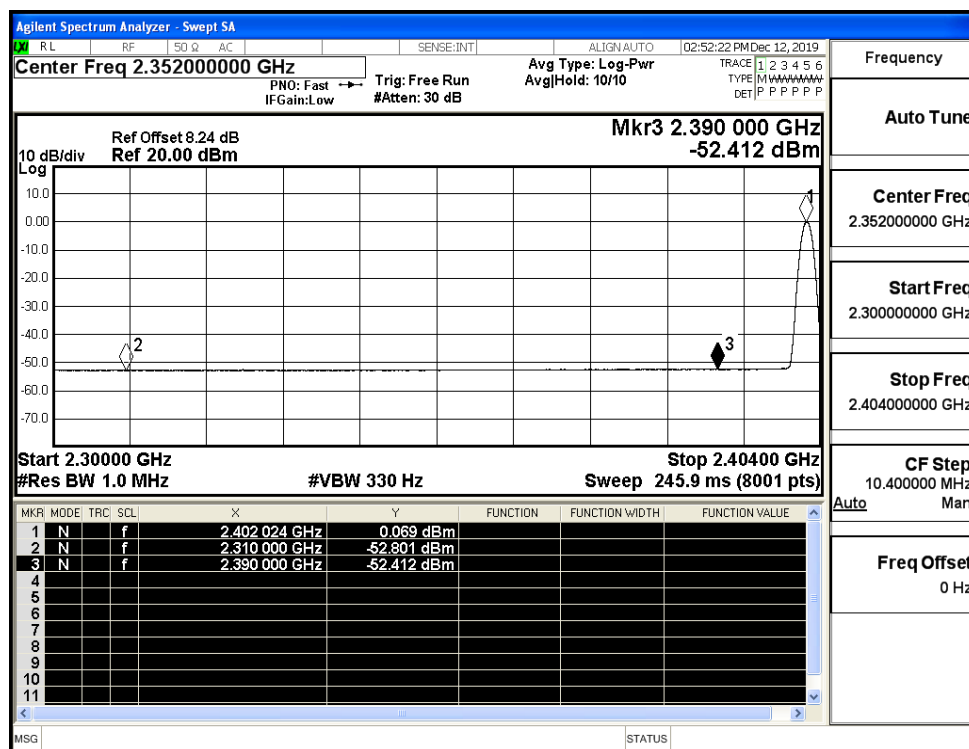
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-42.19	2.0	0	53.07	PEAK	74	PASS
	Off	2310.0	-52.80	2.0	0	42.46	AV	54	PASS
	Off	2390.0	-43.05	2.0	0	52.21	PEAK	74	PASS
	Off	2390.0	-52.41	2.0	0	42.85	AV	54	PASS
	Off	2483.5	-40.96	2.0	0	54.30	PEAK	74	PASS
	Off	2483.5	-51.83	2.0	0	43.43	AV	54	PASS
	Off	2500.0	-41.00	2.0	0	54.26	PEAK	74	PASS
	Off	2500.0	-51.57	2.0	0	43.69	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-42.21	2.0	0	53.05	PEAK	74	PASS
	Off	2310.0	-52.68	2.0	0	42.58	AV	54	PASS
	Off	2390.0	-42.12	2.0	0	53.14	PEAK	74	PASS
	Off	2390.0	-52.12	2.0	0	43.14	AV	54	PASS
	Off	2483.5	-41.79	2.0	0	53.47	PEAK	74	PASS
	Off	2483.5	-51.75	2.0	0	43.51	AV	54	PASS
	Off	2500.0	-41.10	2.0	0	54.16	PEAK	74	PASS
	Off	2500.0	-51.59	2.0	0	43.67	AV	54	PASS
8DPSK	Off	2310.0	-42.32	2.0	0	52.94	PEAK	74	PASS
	Off	2310.0	-52.74	2.0	0	42.52	AV	54	PASS
	Off	2390.0	-41.62	2.0	0	53.64	PEAK	74	PASS
	Off	2390.0	-52.29	2.0	0	42.97	AV	54	PASS
	Off	2483.5	-40.99	2.0	0	54.27	PEAK	74	PASS
	Off	2483.5	-51.79	2.0	0	43.47	AV	54	PASS
	Off	2500.0	-40.43	2.0	0	54.83	PEAK	74	PASS
	Off	2500.0	-51.53	2.0	0	43.73	AV	54	PASS

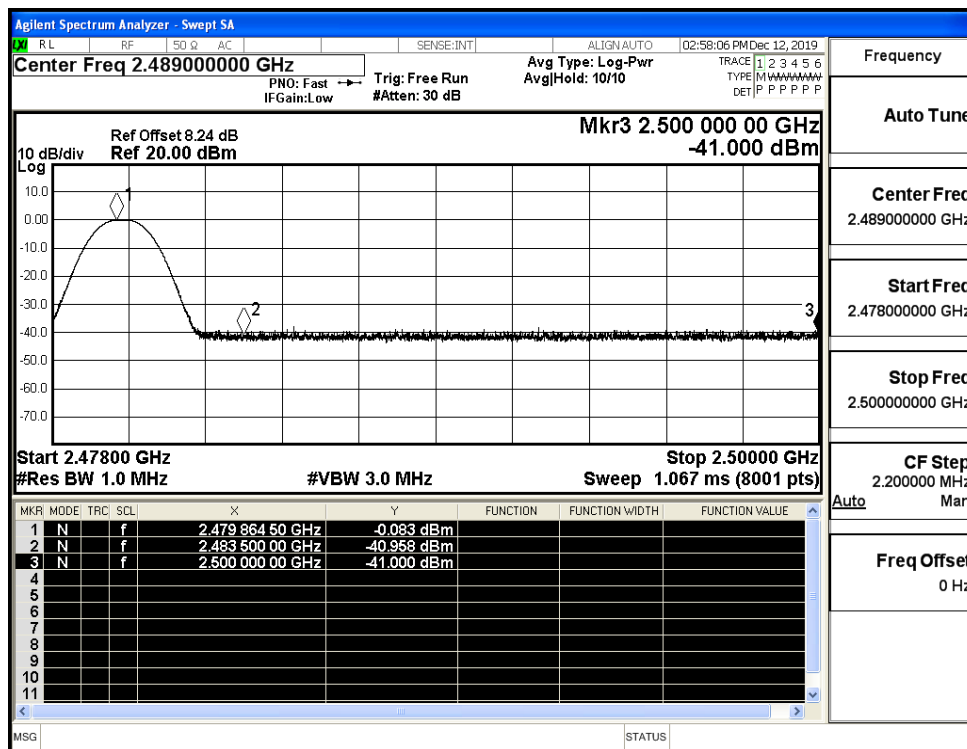
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



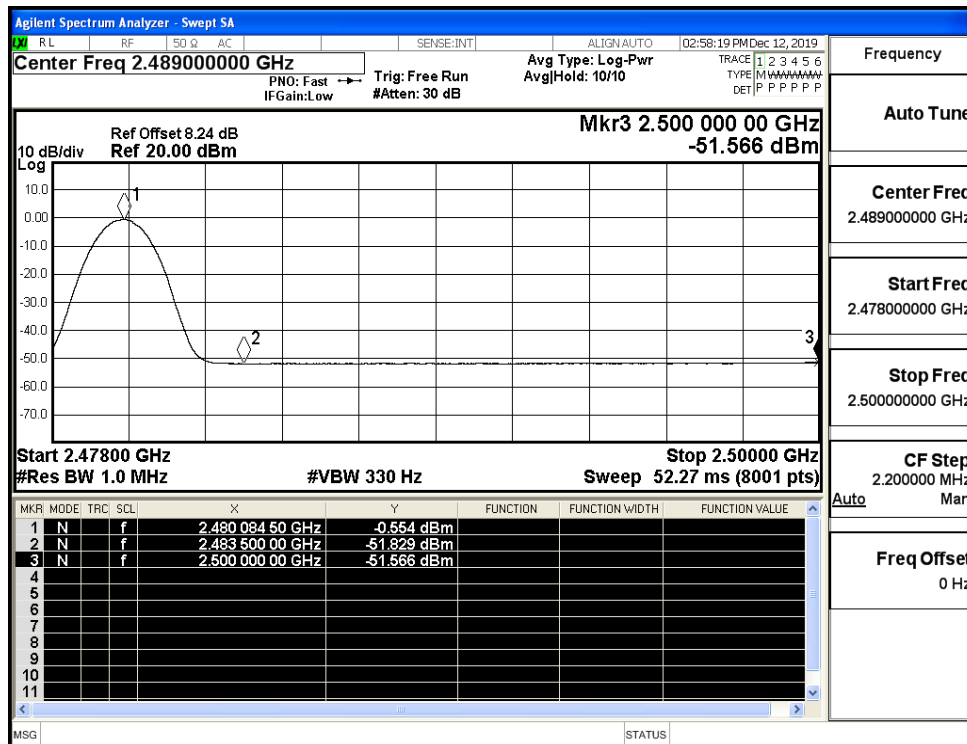
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)

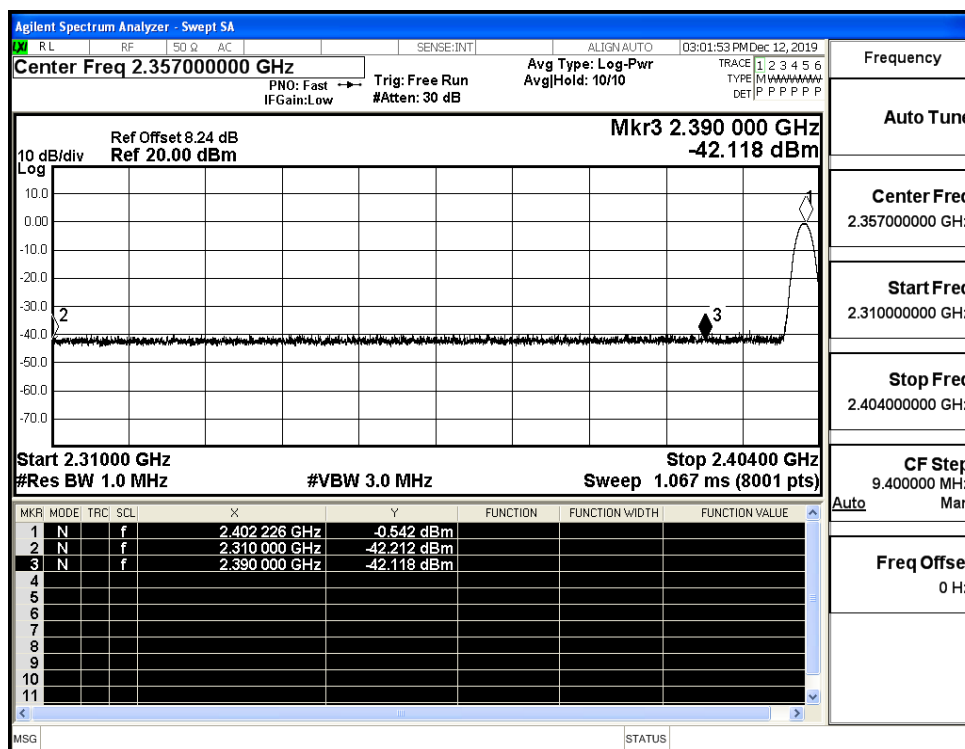
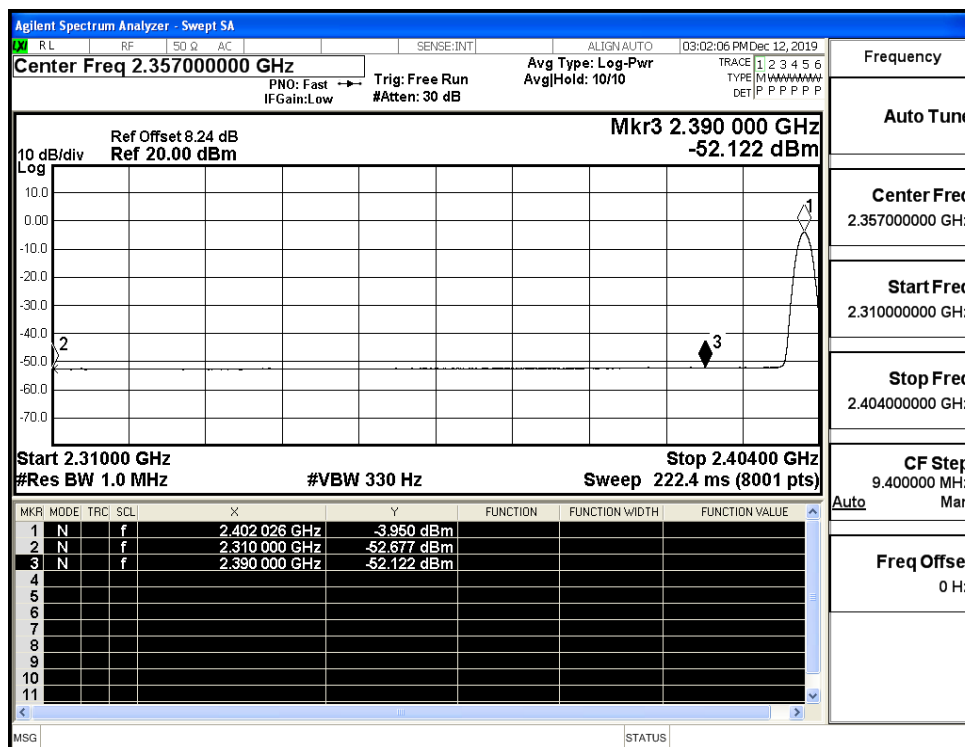


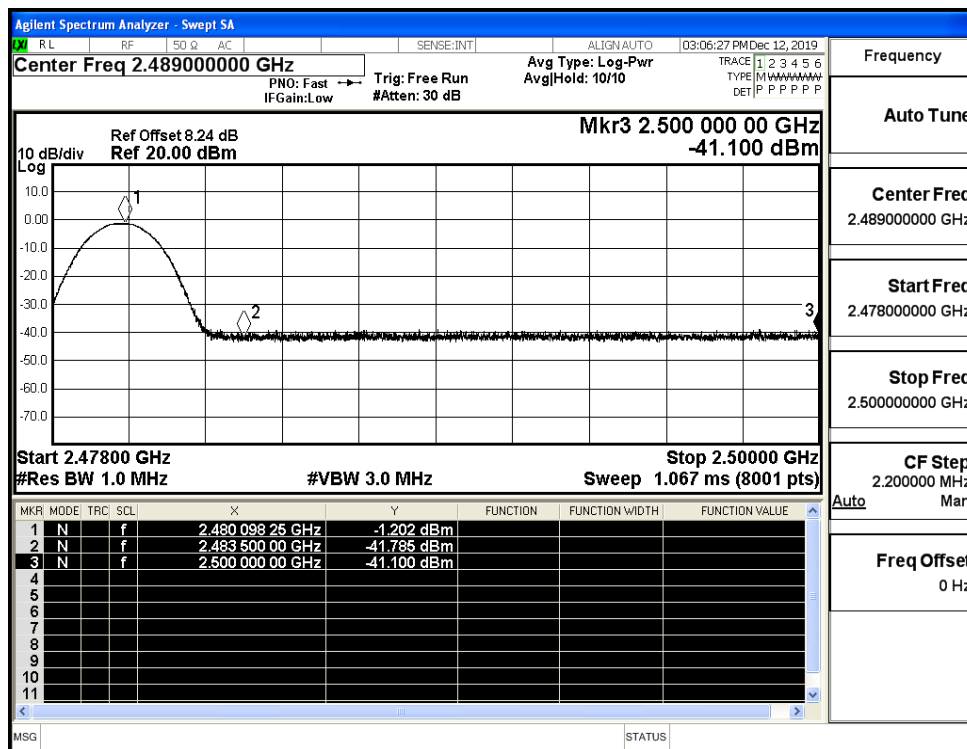
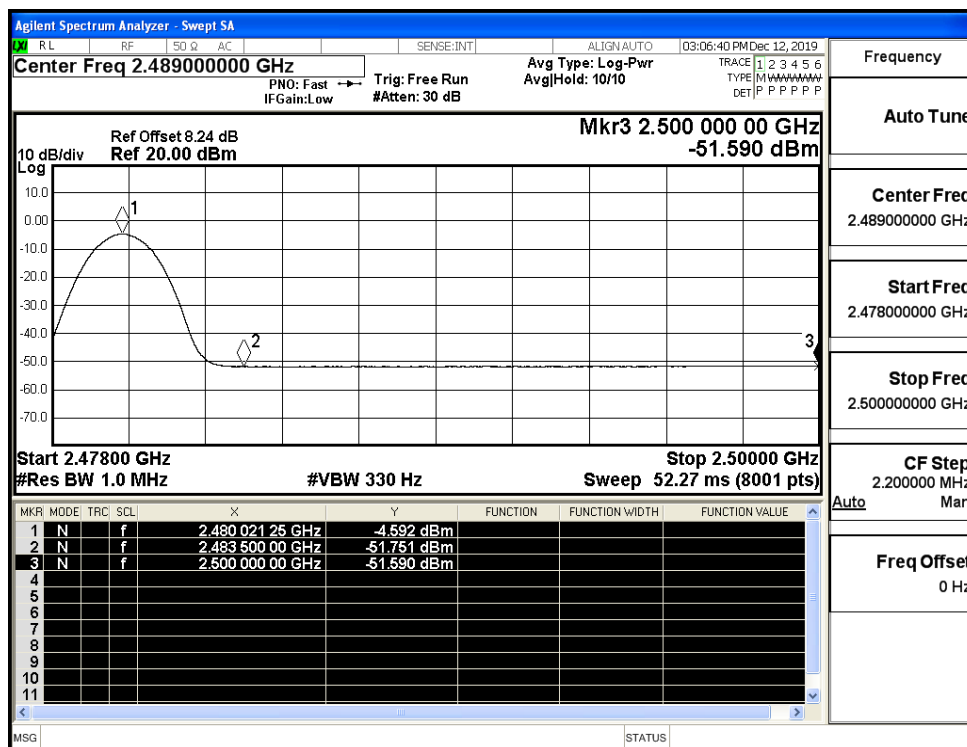
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



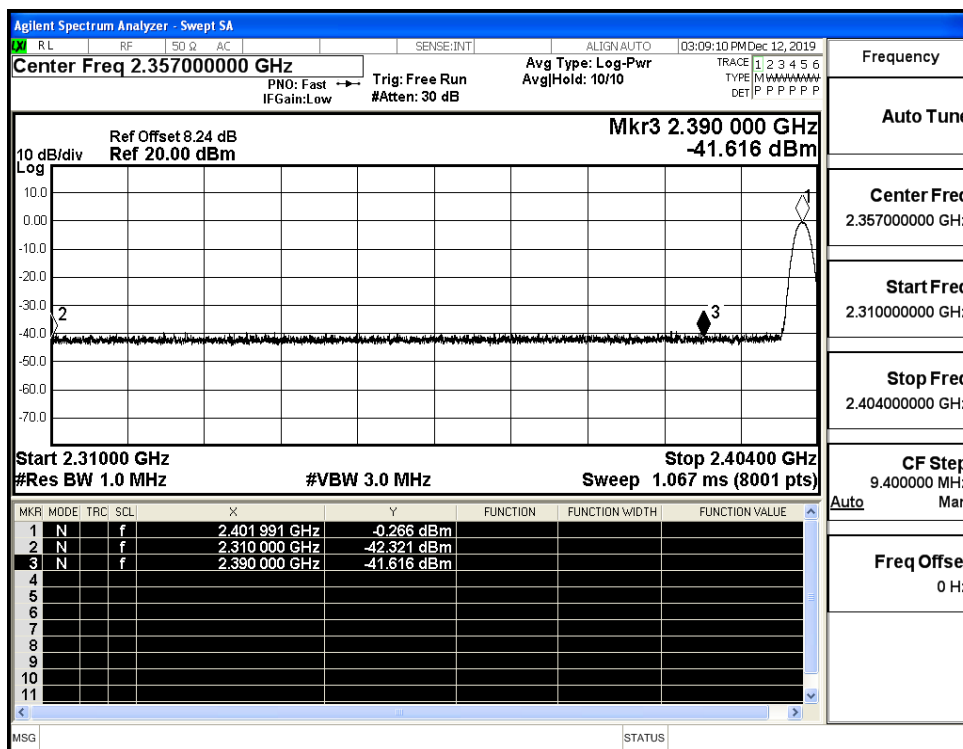
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



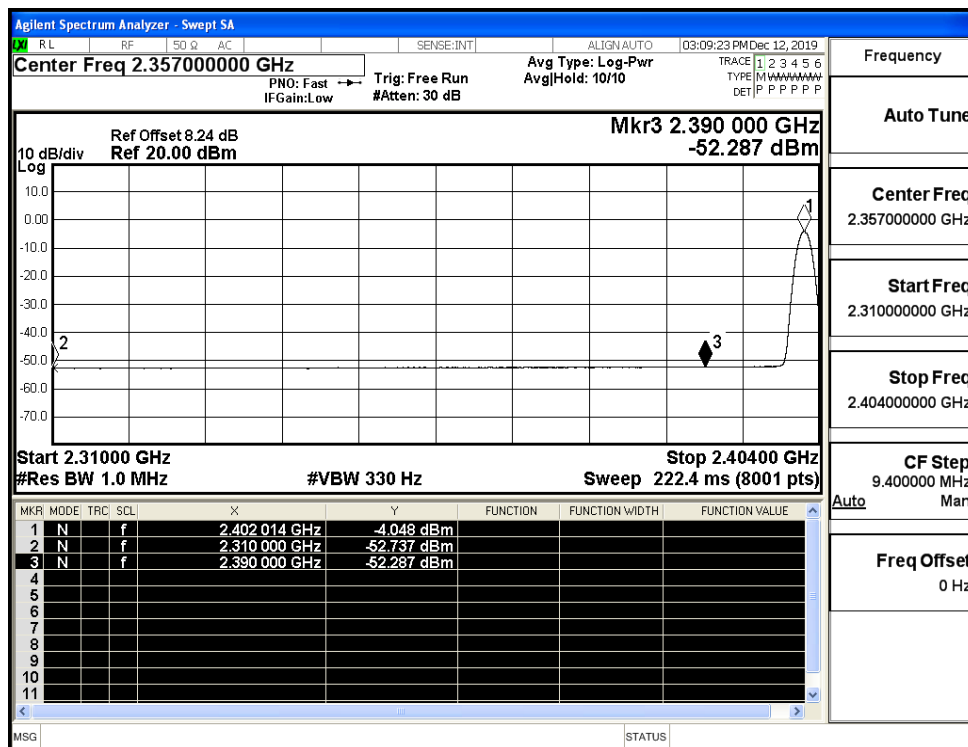
Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)

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)

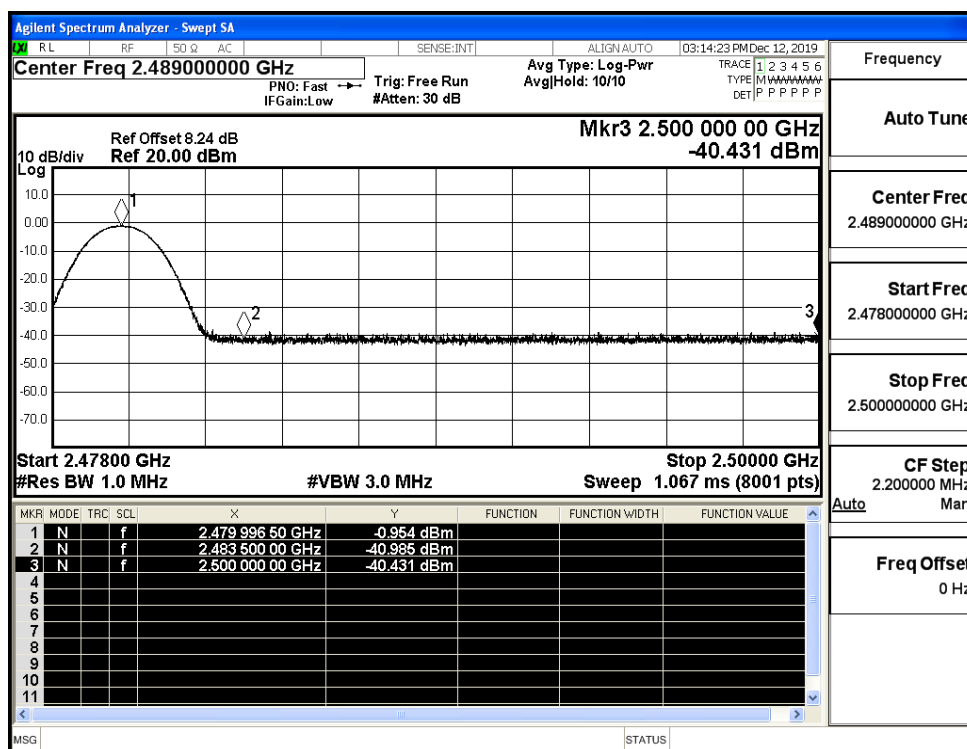
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

