

Appendix A

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

Product Name: Tablet PC

Trade Mark: H800B

Test Model: RIGEL

Environmental Conditions

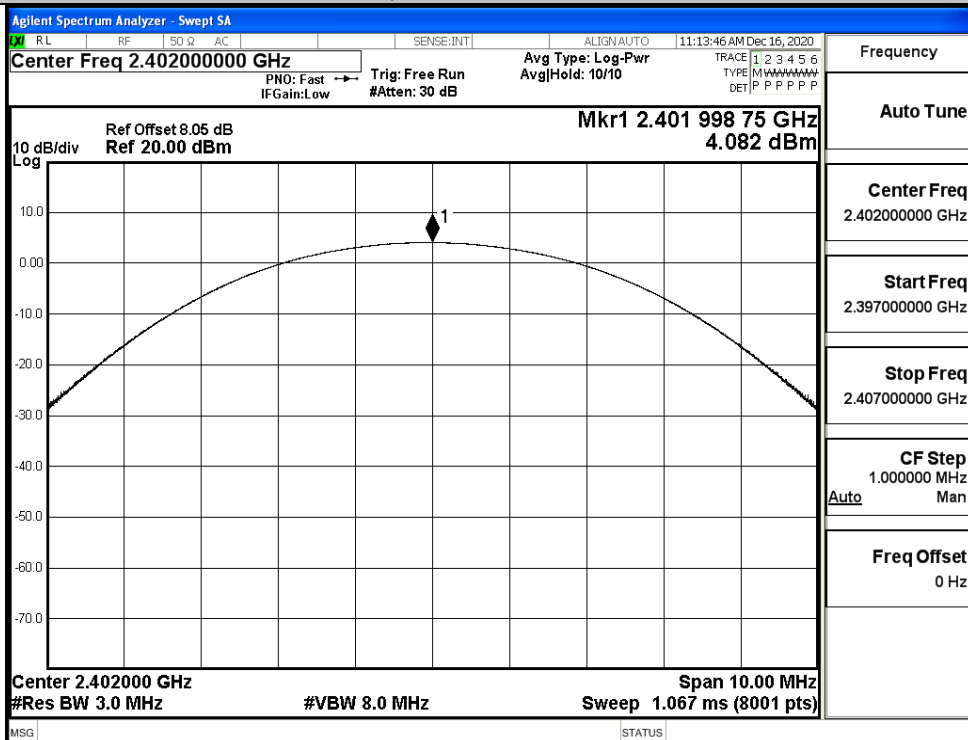
Temperature:	22.5° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

A.1 Maximum Conducted Peak Output Power

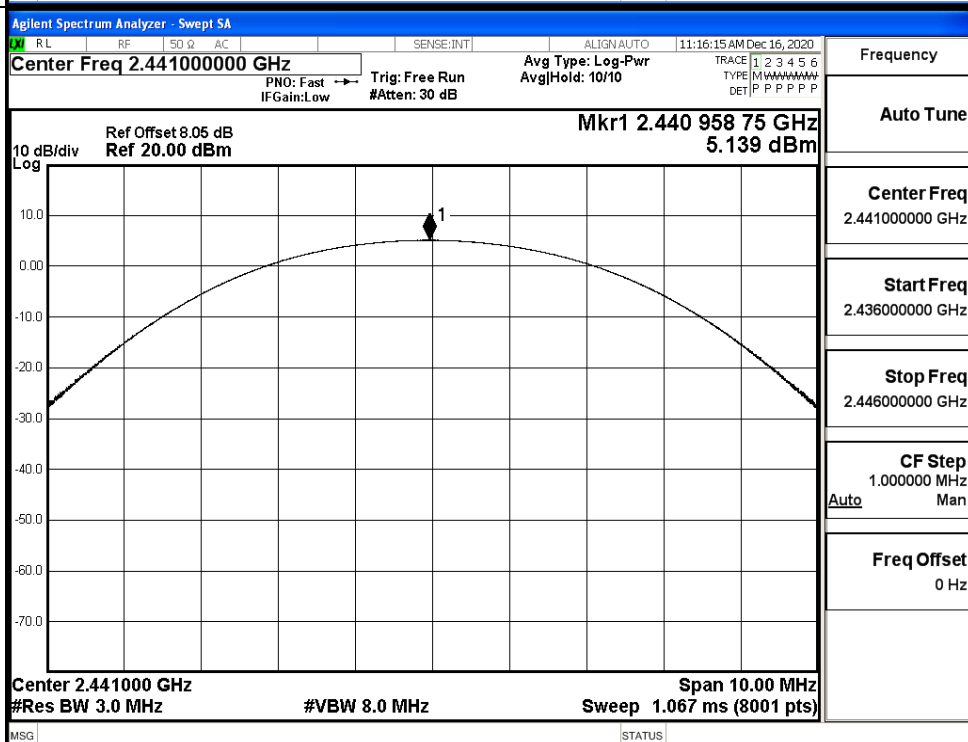
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	4.082	30	PASS
	MCH	5.139	30	PASS
	HCH	4.403	30	PASS
$\pi/4$ DQPSK	LCH	3.438	21	PASS
	MCH	4.551	21	PASS
	HCH	3.814	21	PASS
8DPSK	LCH	3.458	21	PASS
	MCH	4.569	21	PASS
	HCH	3.816	21	PASS

Test Graphs

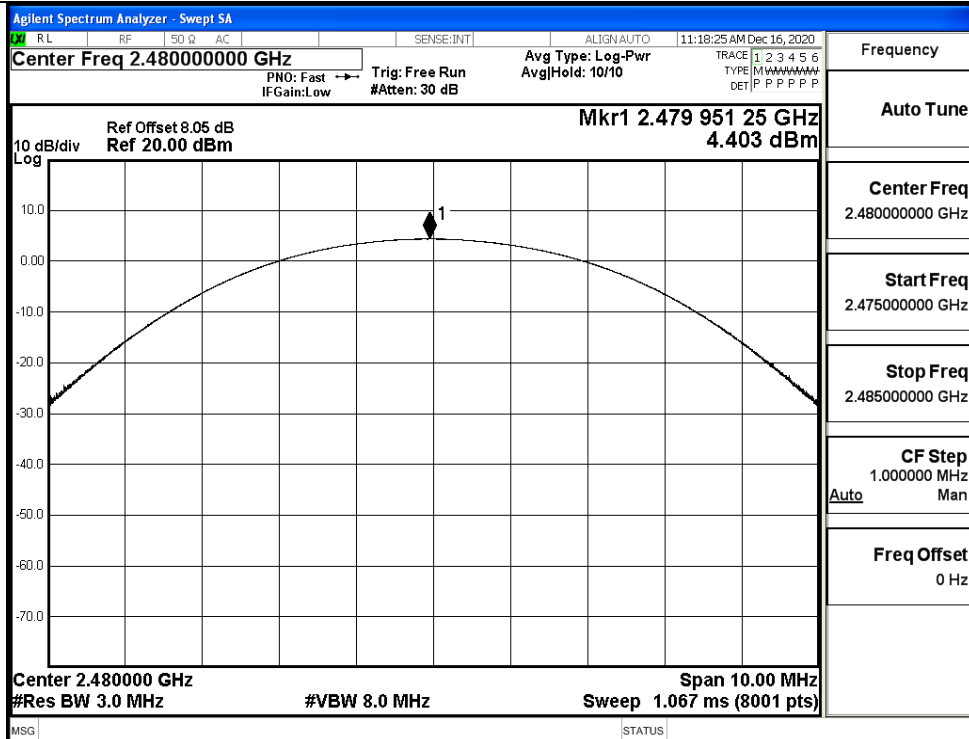
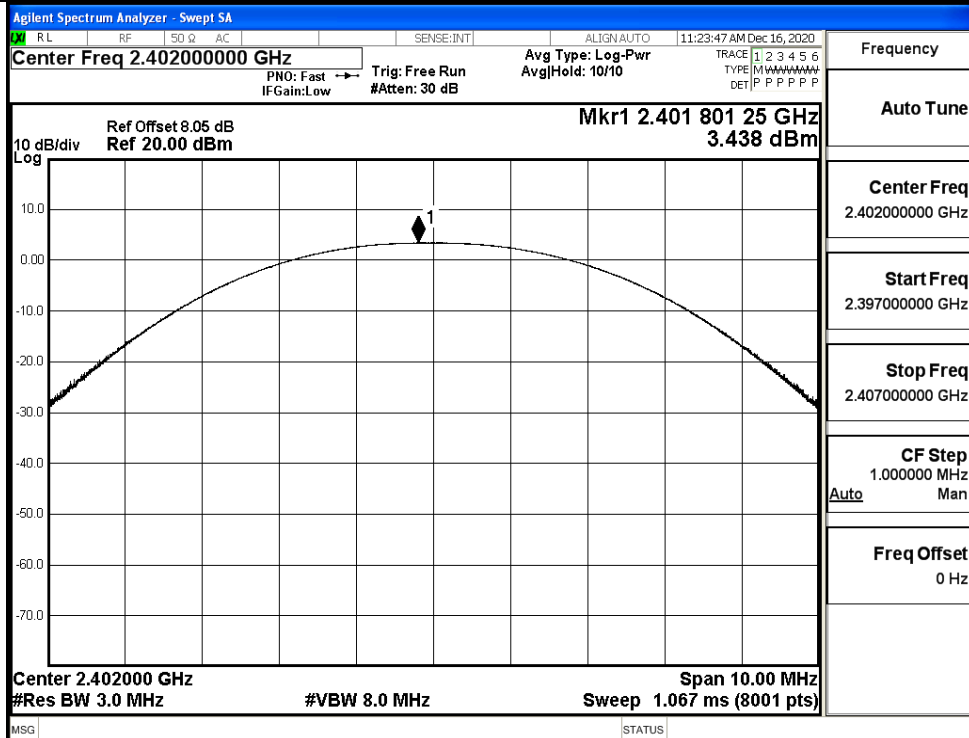
GFSK/LCH

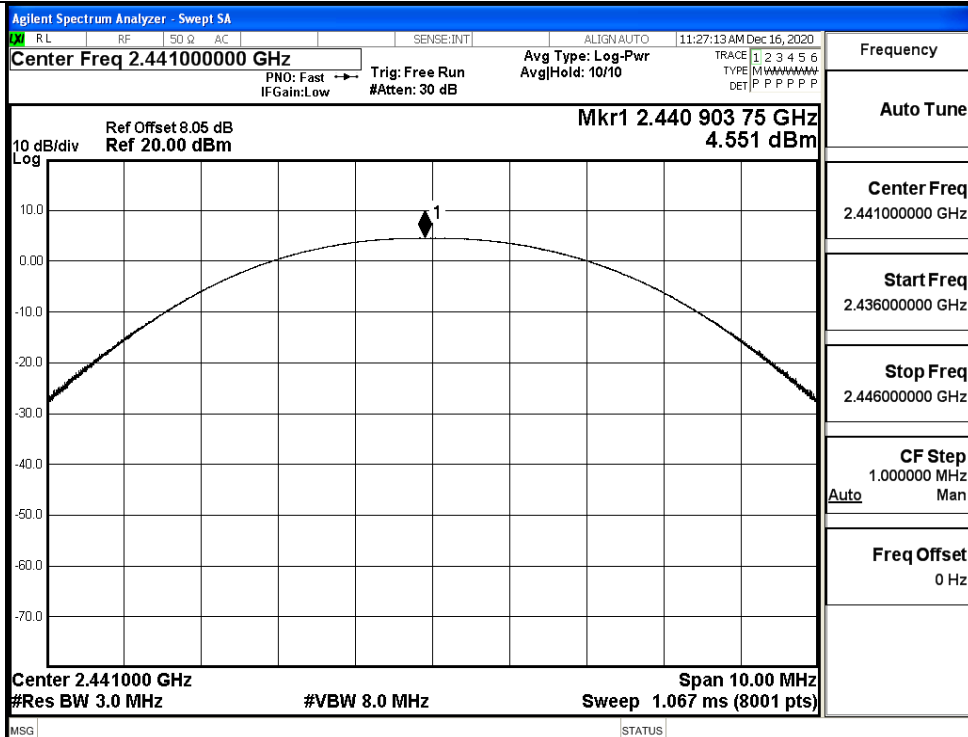
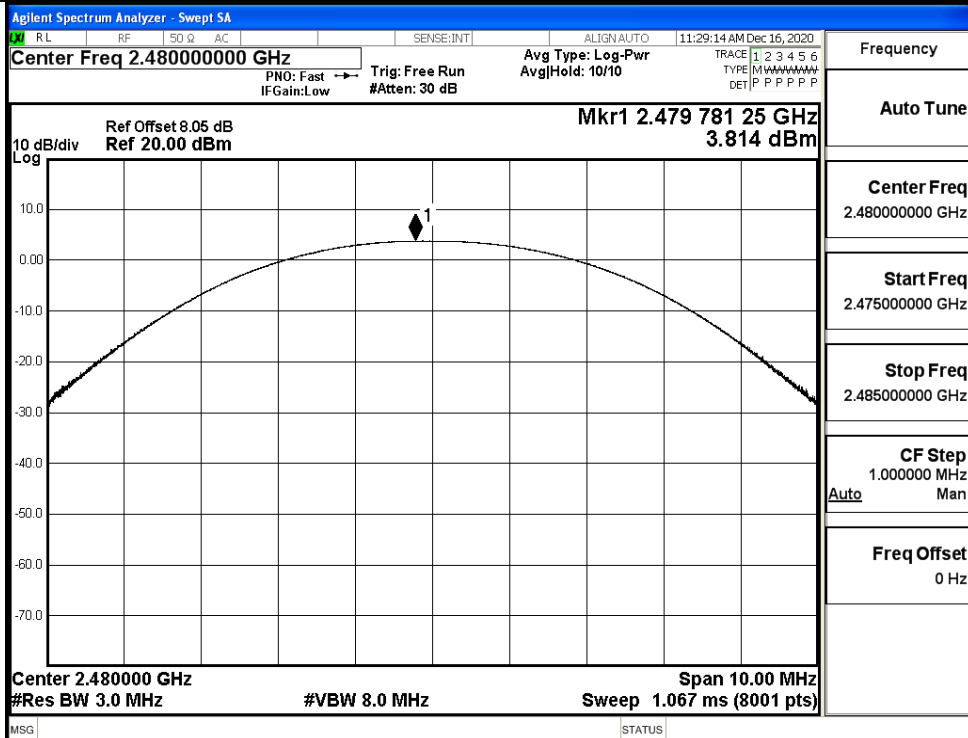


GFSK/MCH

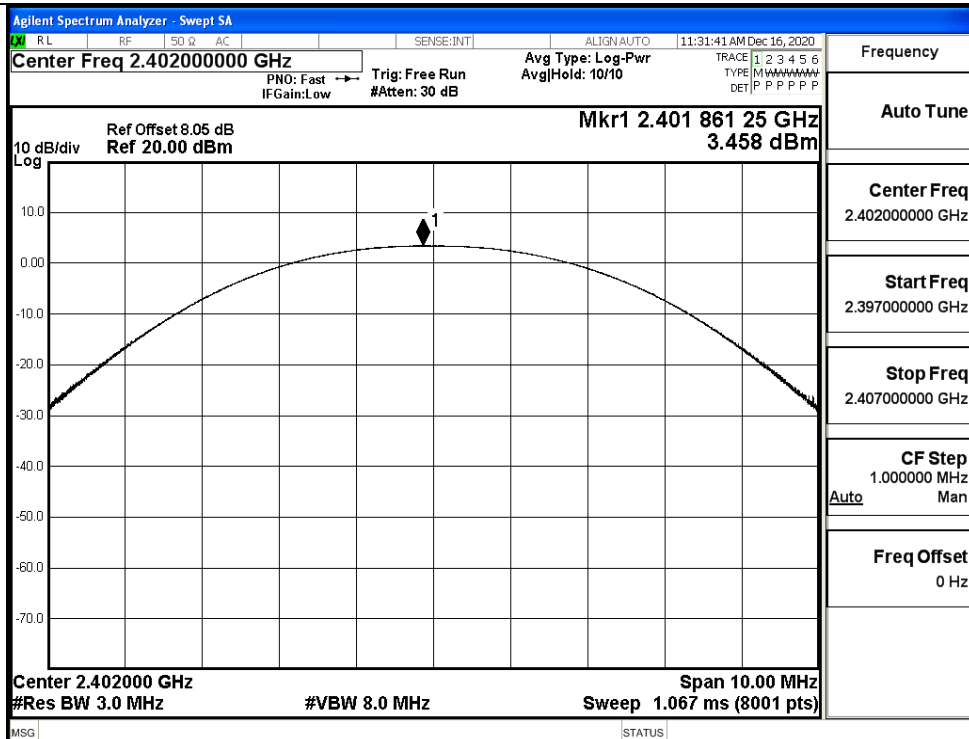


GFSK/HCH

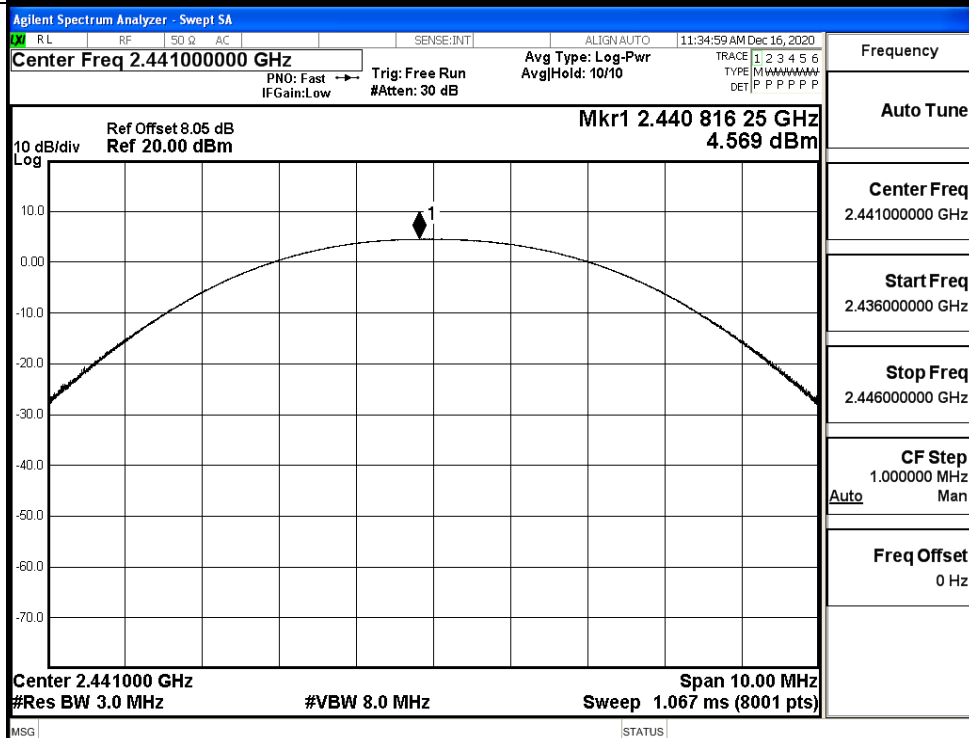
 π /4DQPSK/LCH

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

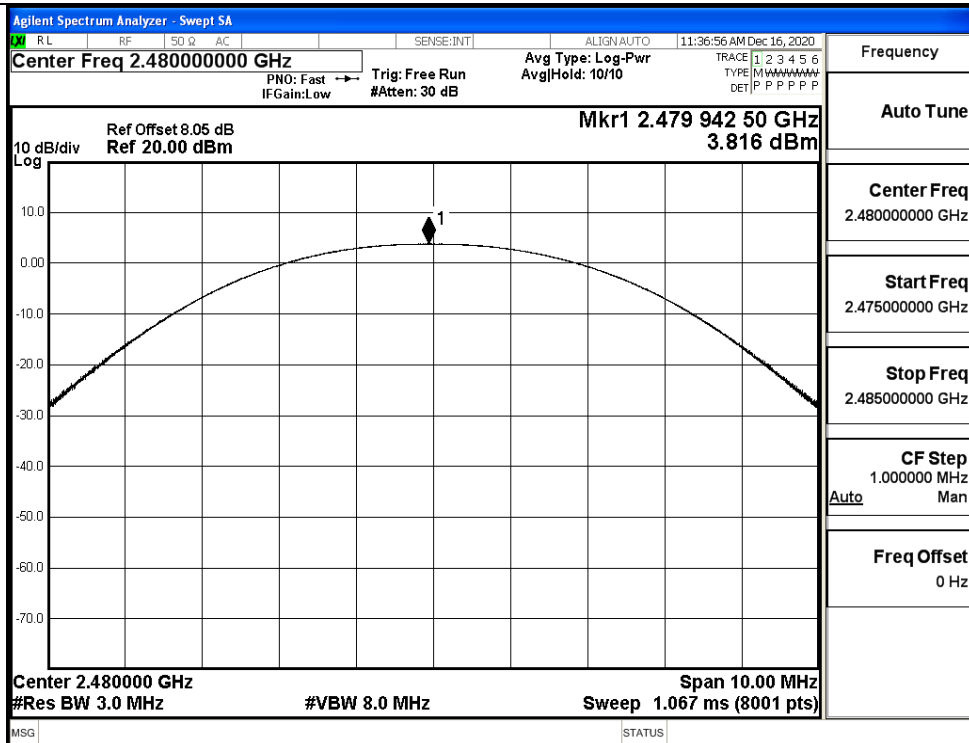
8DPSK/LCH



8DPSK/MCH



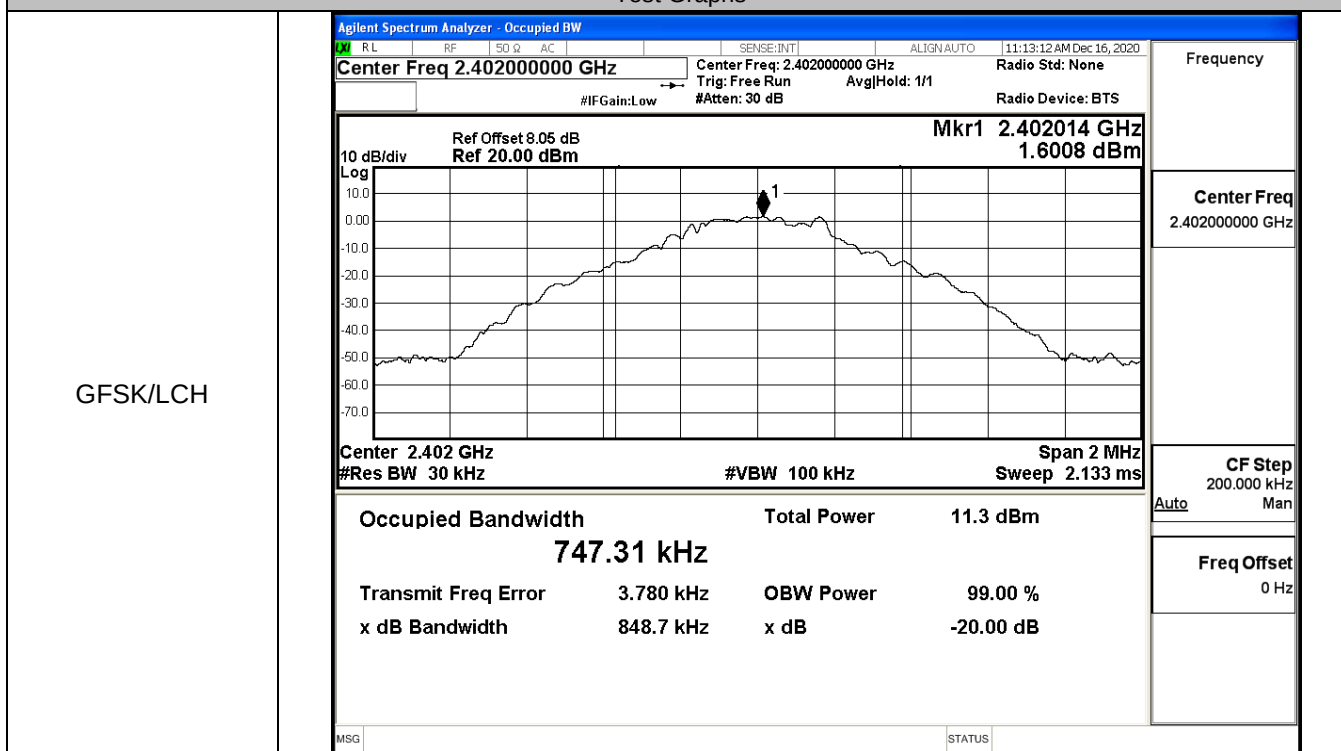
8DPSK/HCH



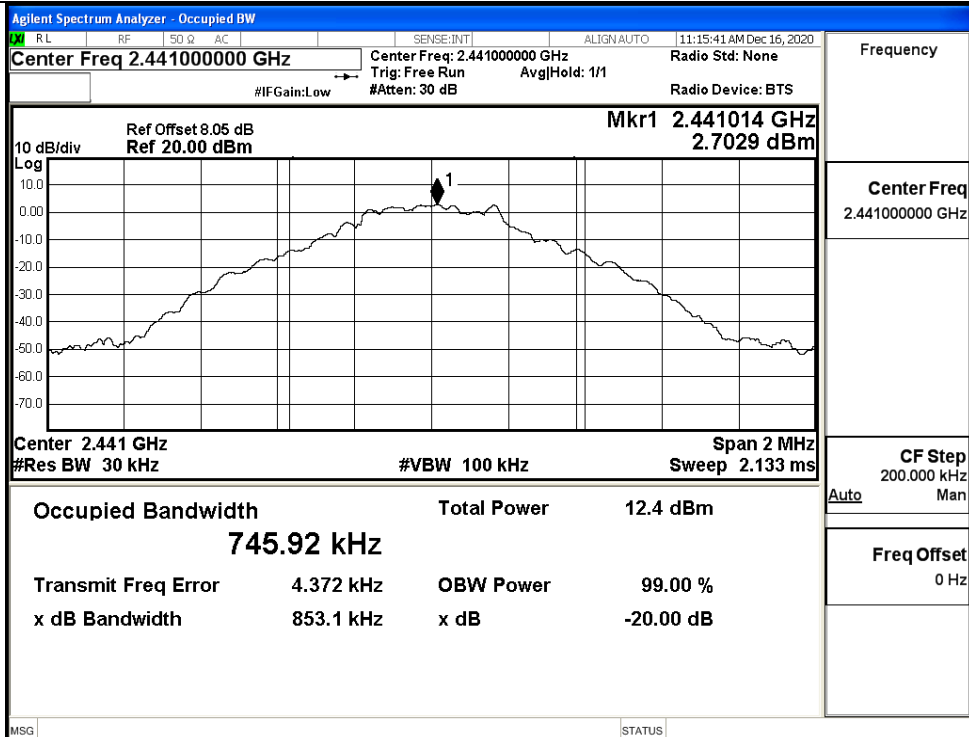
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.8487	Not Specified	PASS
	MCH	0.8531	Not Specified	PASS
	HCH	0.8541	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.270	Not Specified	PASS
	MCH	1.273	Not Specified	PASS
	HCH	1.268	Not Specified	PASS
8DPSK	LCH	1.277	Not Specified	PASS
	MCH	1.266	Not Specified	PASS
	HCH	1.268	Not Specified	PASS

Test Graphs



GFSK/MCH



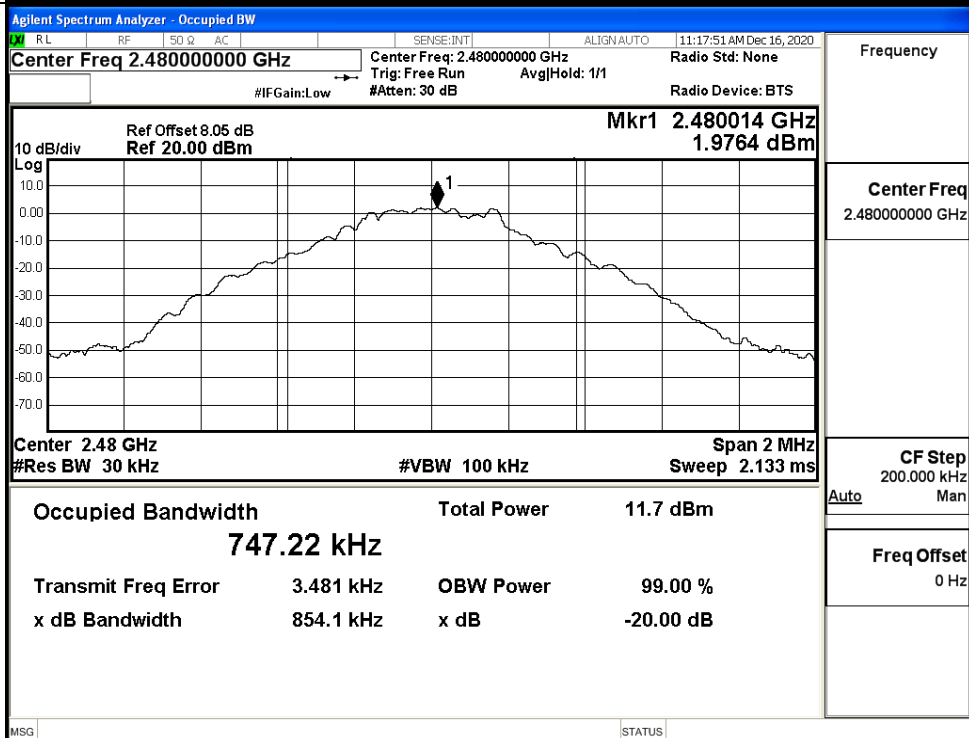
Frequency

Center Freq
2.441000000 GHzCF Step
200.000 kHz
Man

Auto

Freq Offset
0 Hz

GFSK/HCH

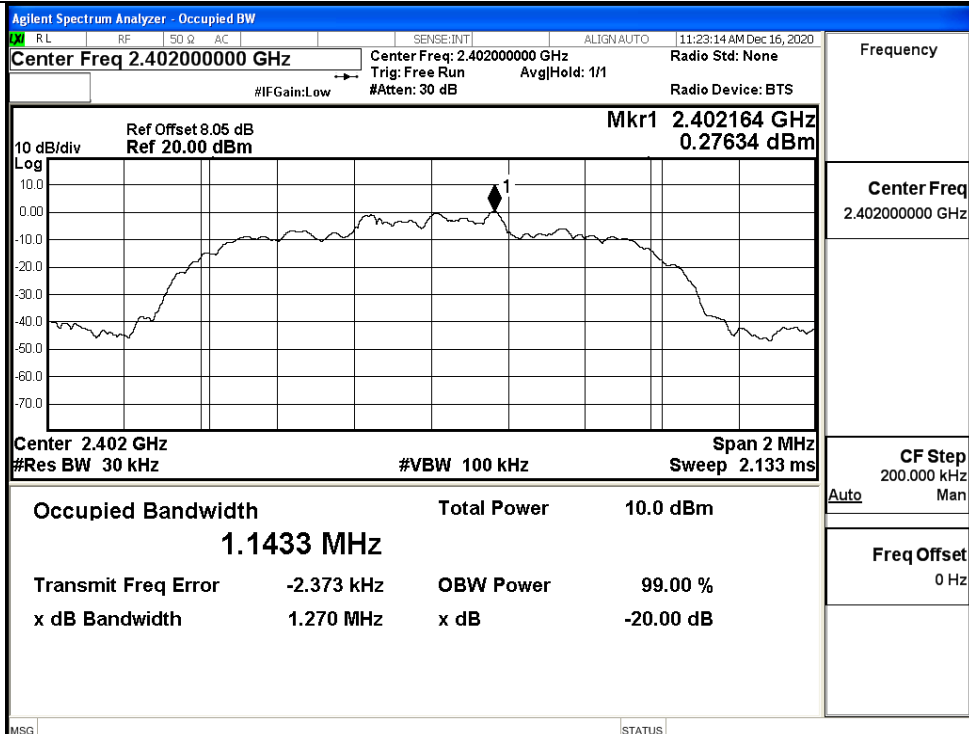
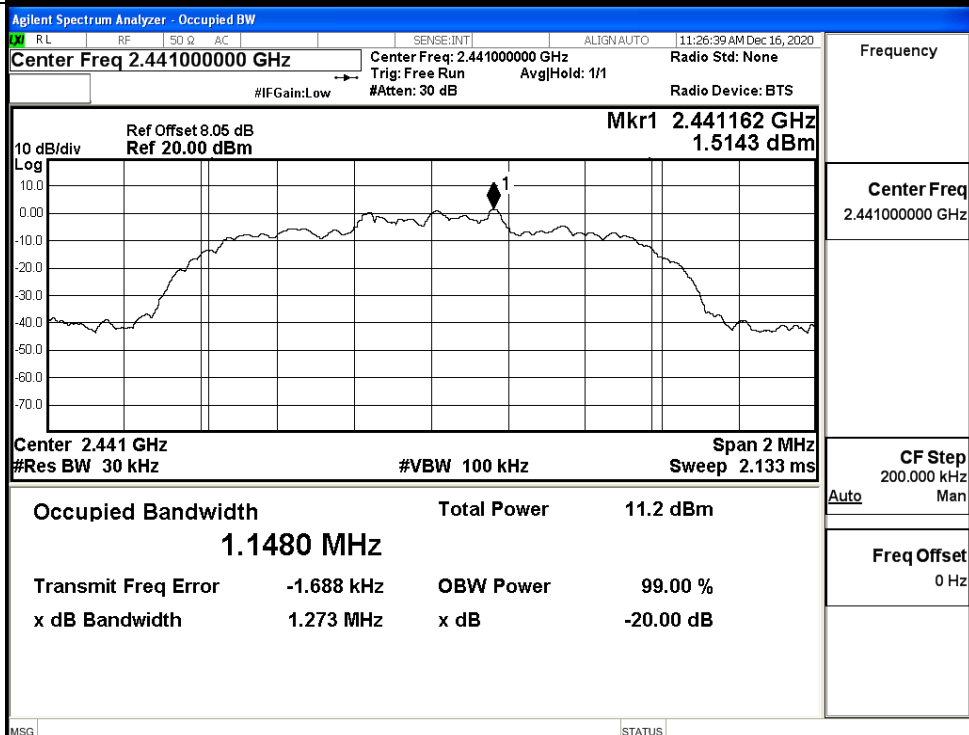


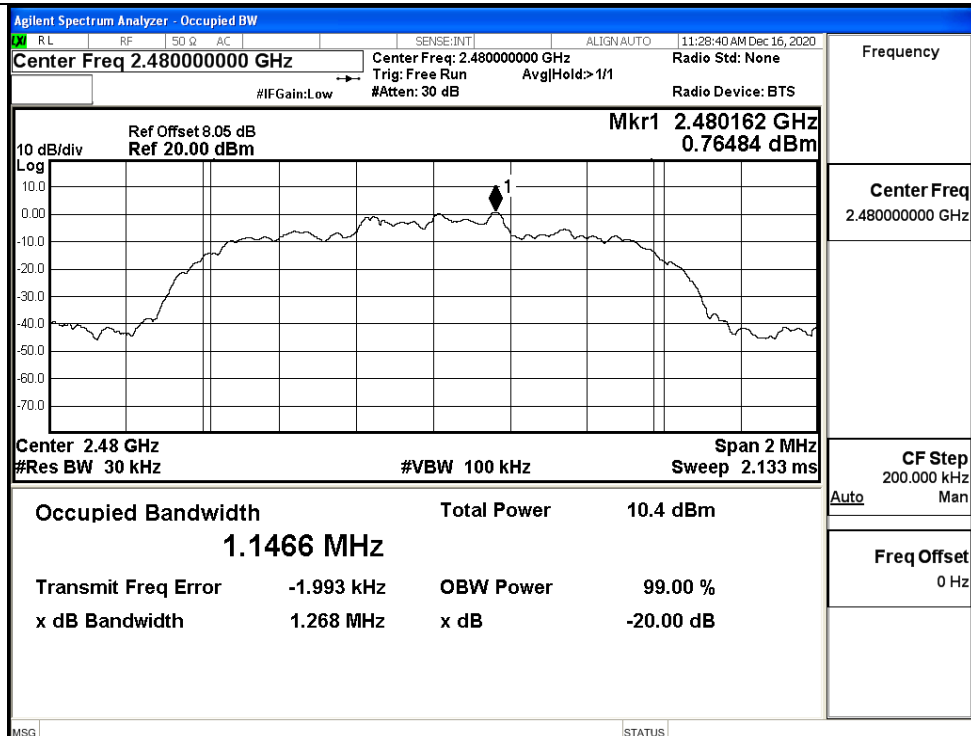
Frequency

Center Freq
2.480000000 GHzCF Step
200.000 kHz
Man

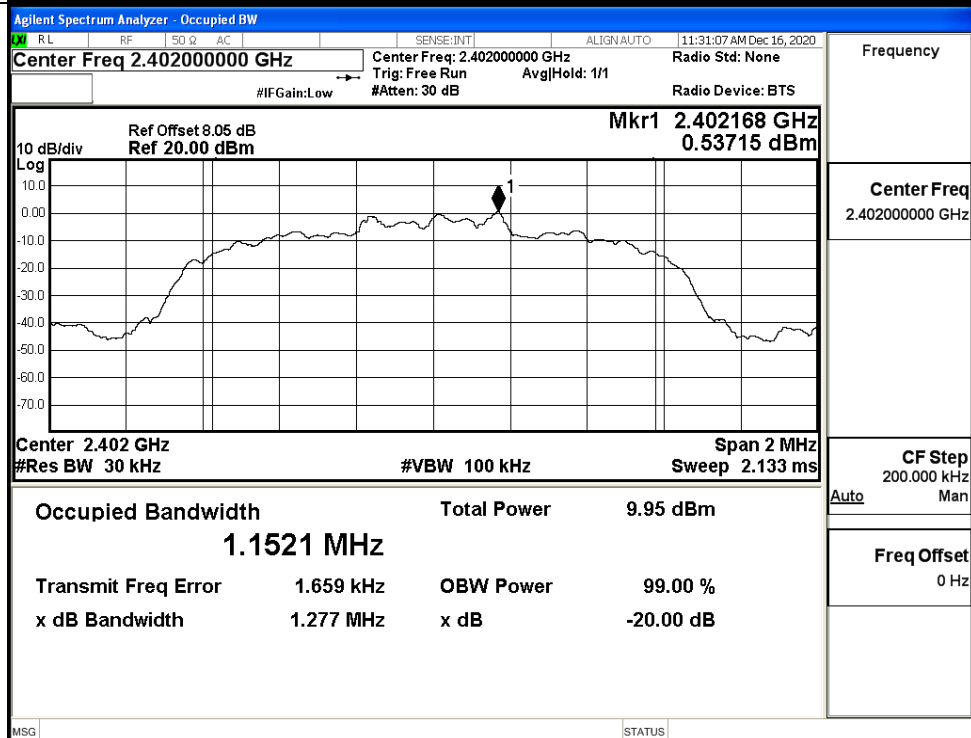
Auto

Freq Offset
0 Hz

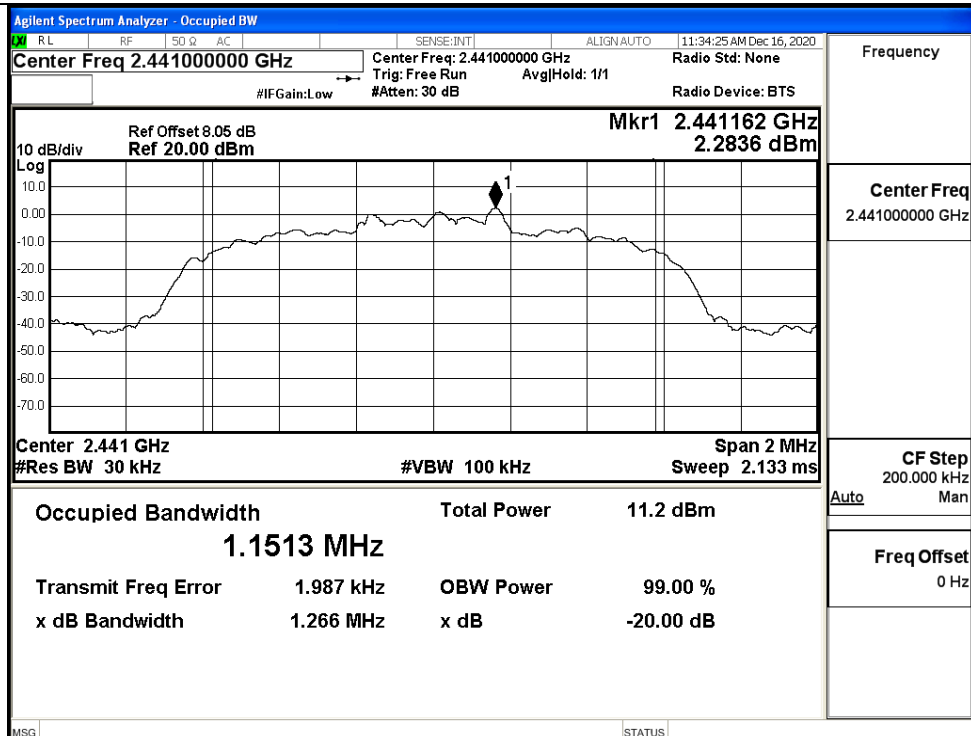
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

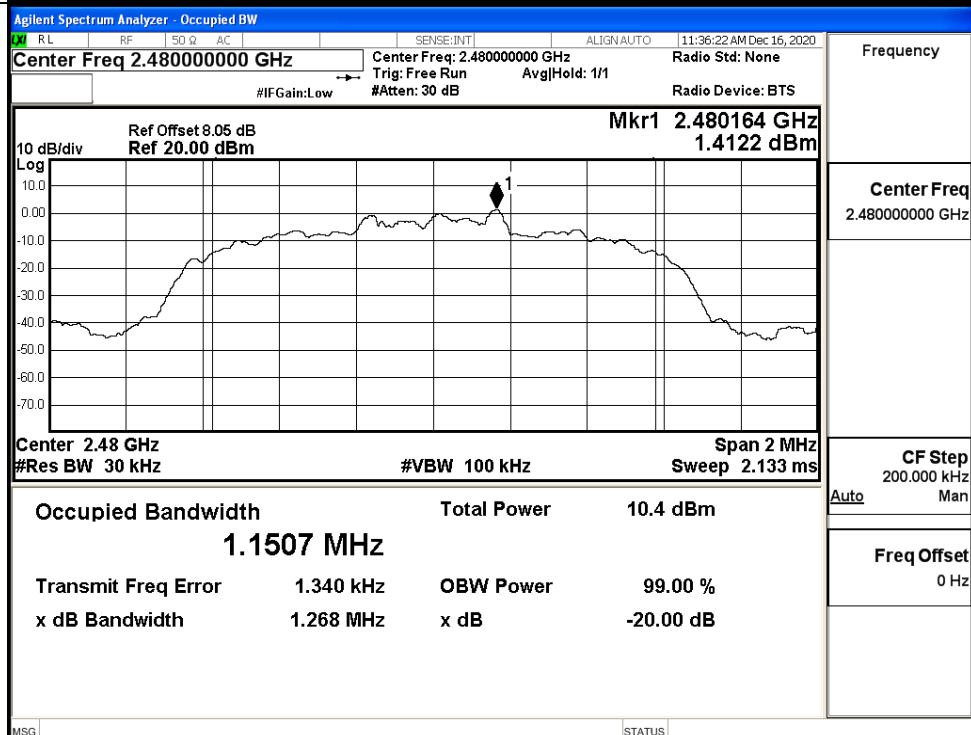
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

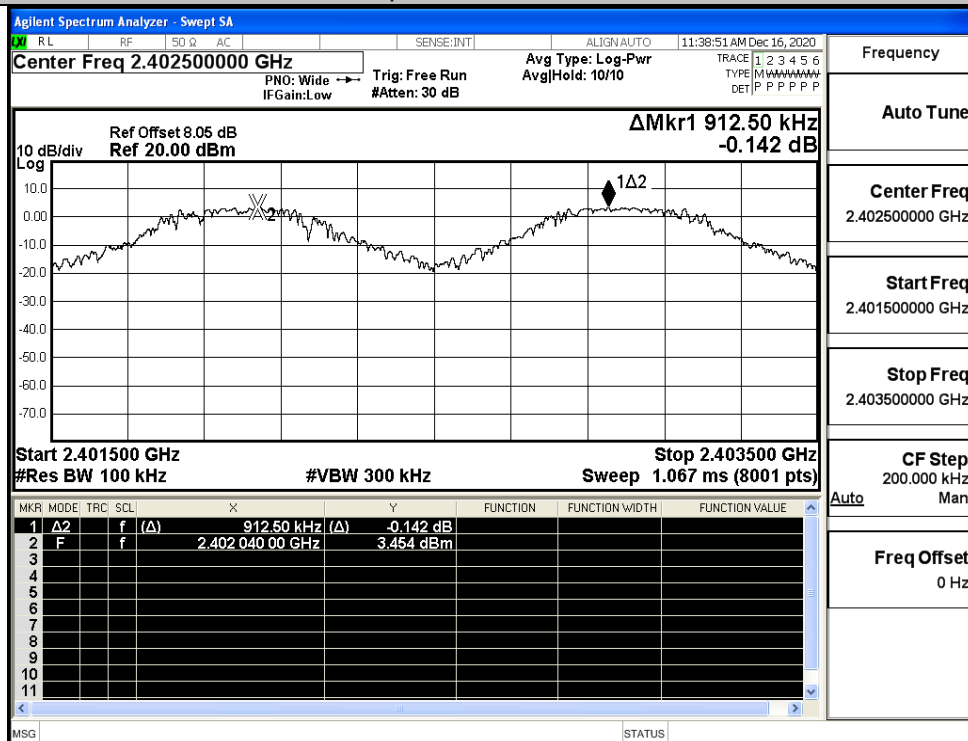


A.3 Carrier Frequency Separation

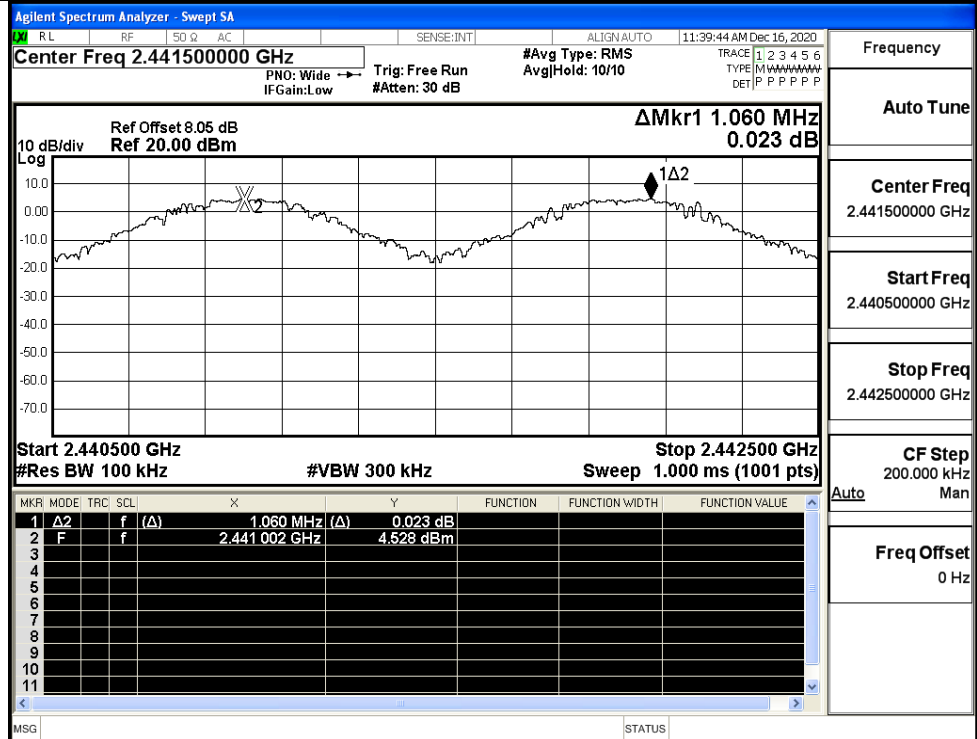
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.912	0.8487	PASS
	MCH	1.060	0.8531	PASS
	HCH	0.944	0.8541	PASS
$\pi/4$ DQPSK	LCH	1.032	0.849	PASS
	MCH	1.154	0.849	PASS
	HCH	1.066	0.849	PASS
8DPSK	LCH	1.054	0.851	PASS
	MCH	0.882	0.851	PASS
	HCH	1.030	0.851	PASS

Test Graphs

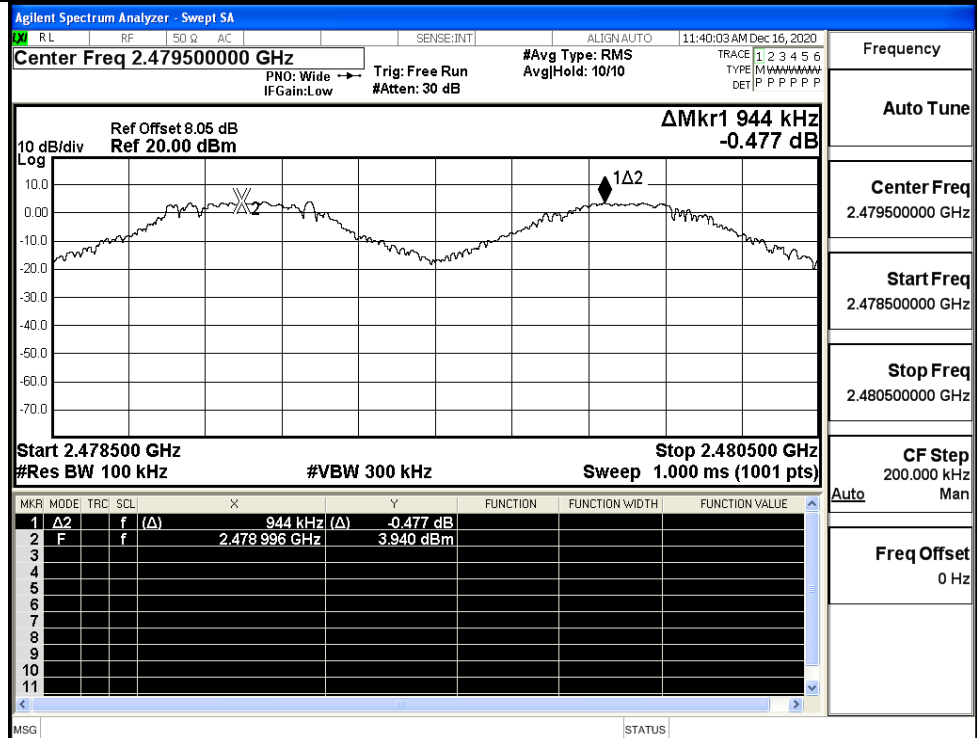
GFSK/LCH

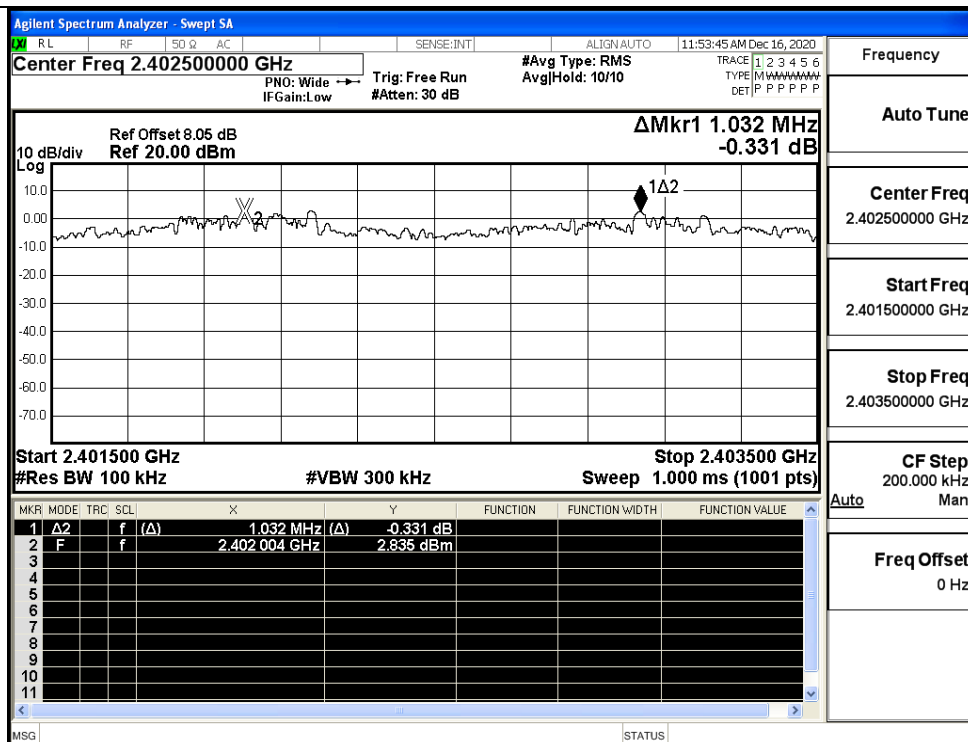
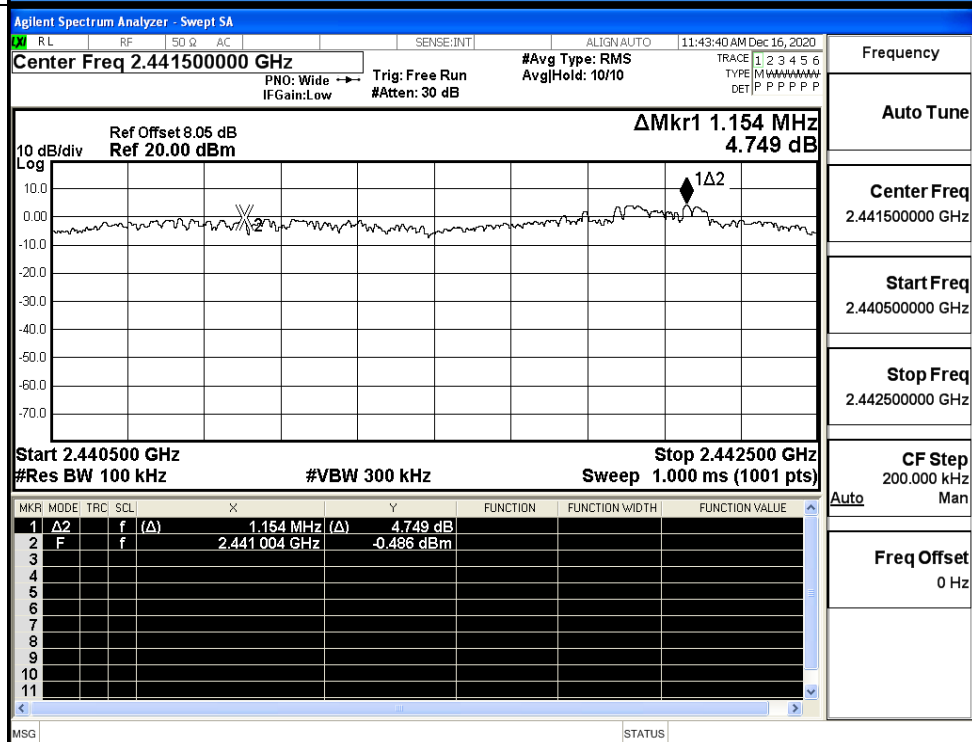


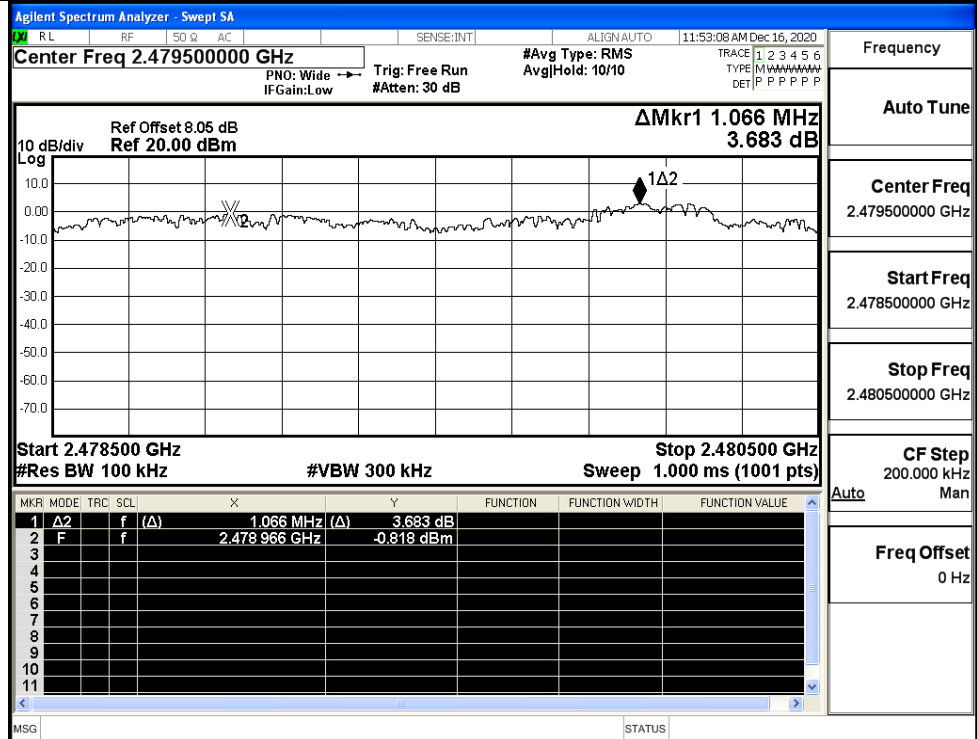
GFSK/MCH



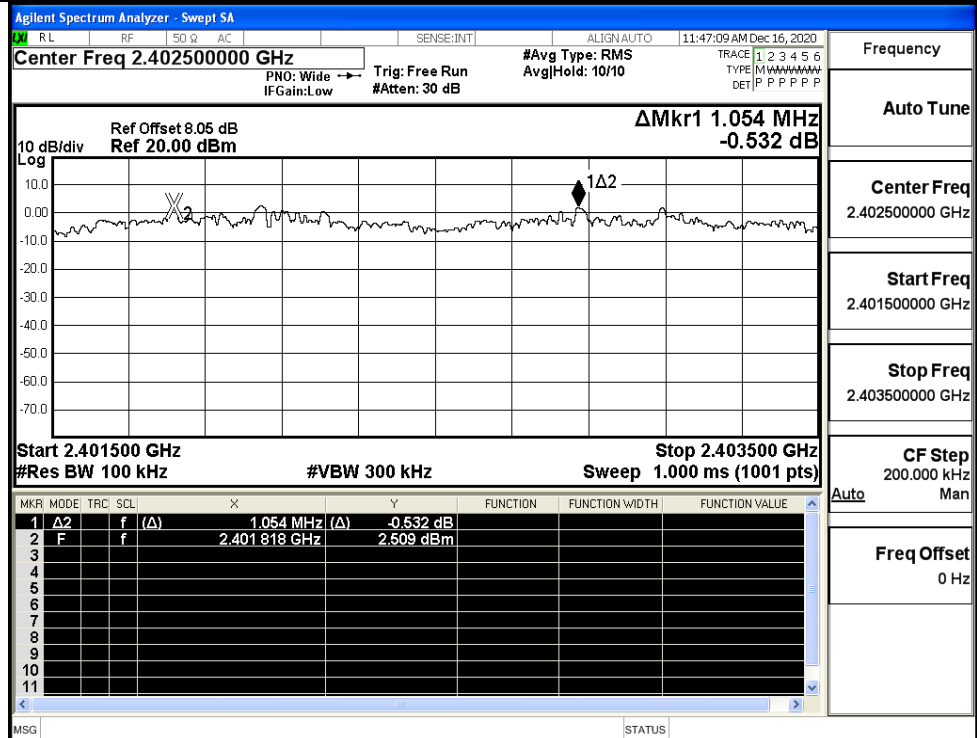
GFSK/HCH



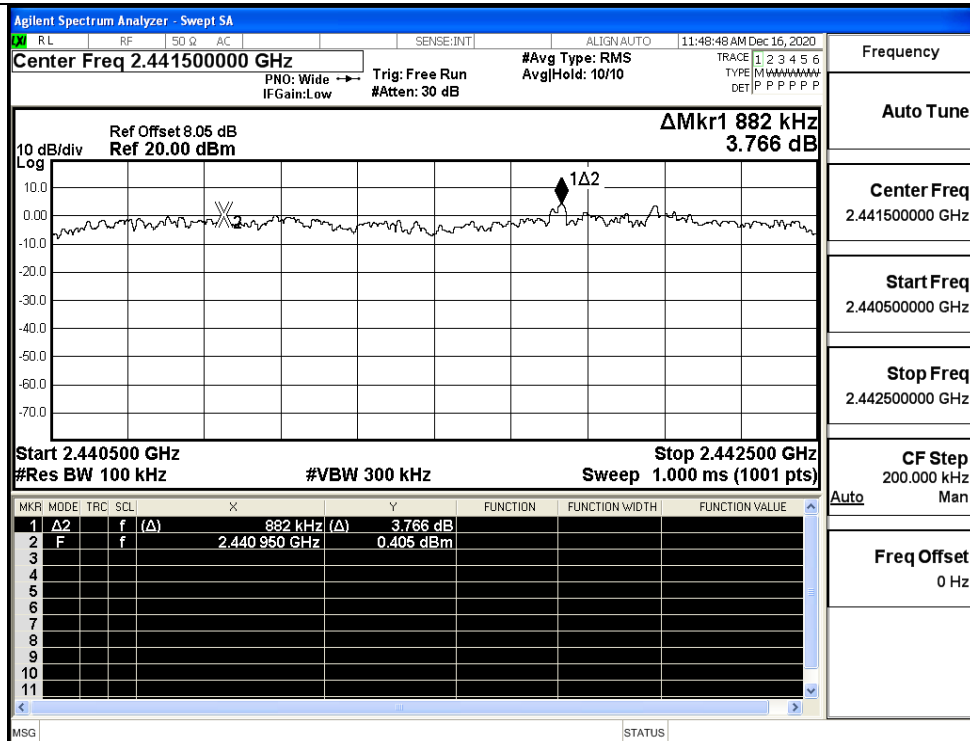
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

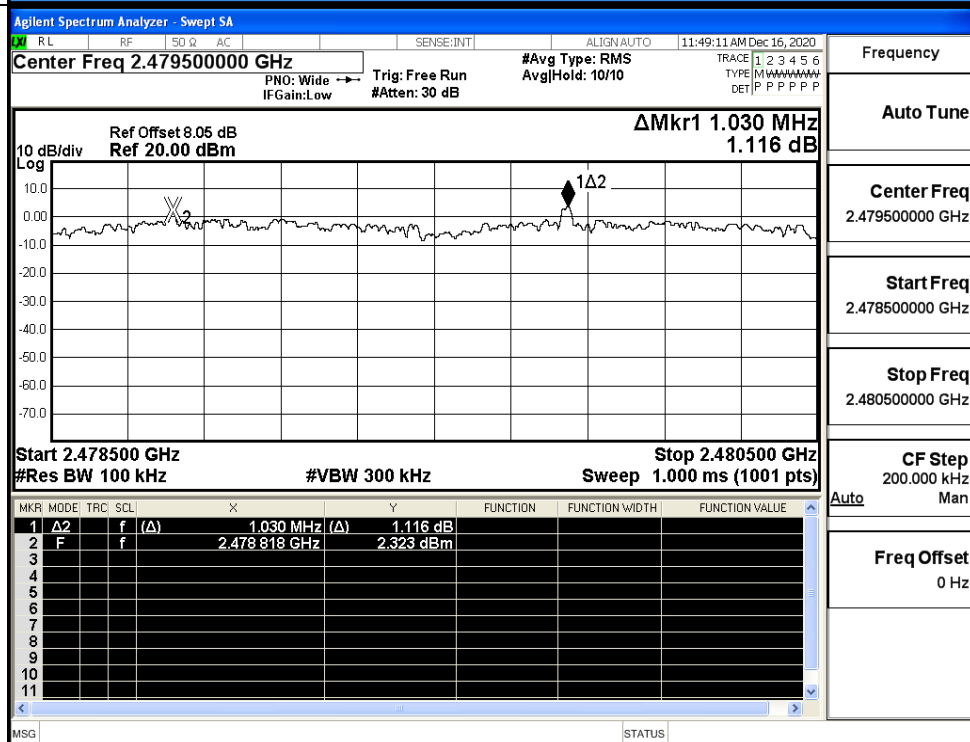
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

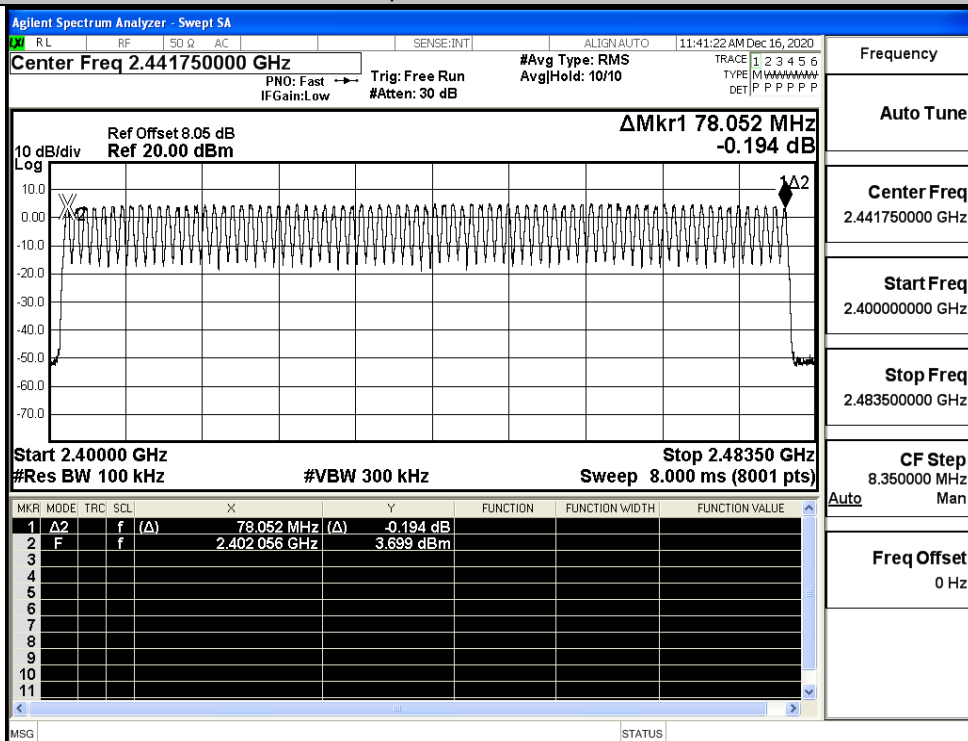
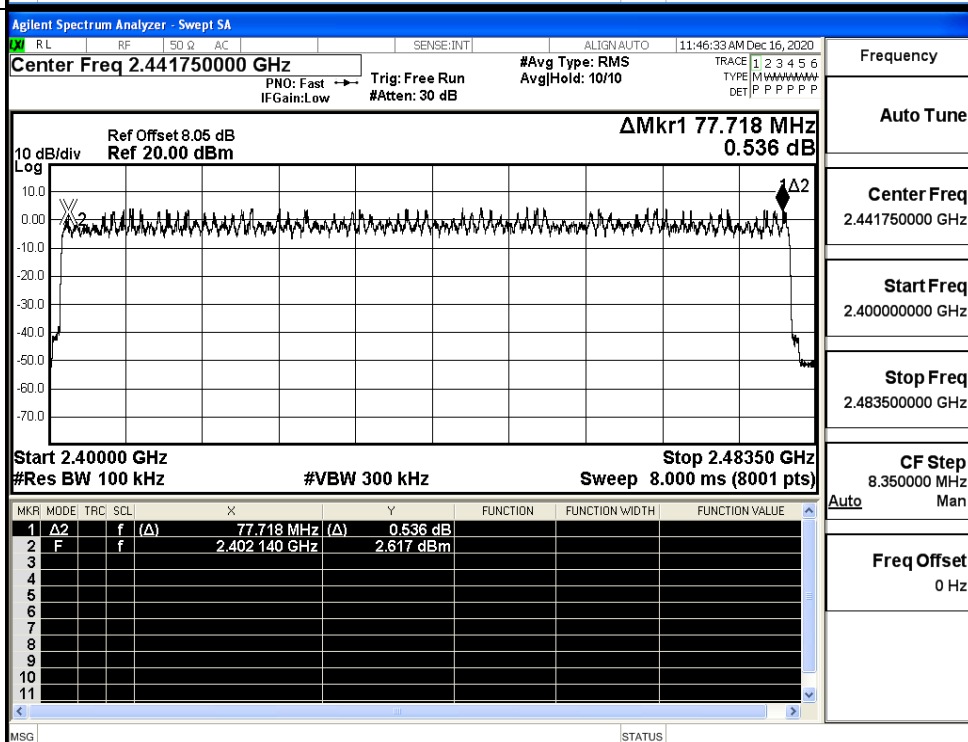


A.4 Hopping Channel Number

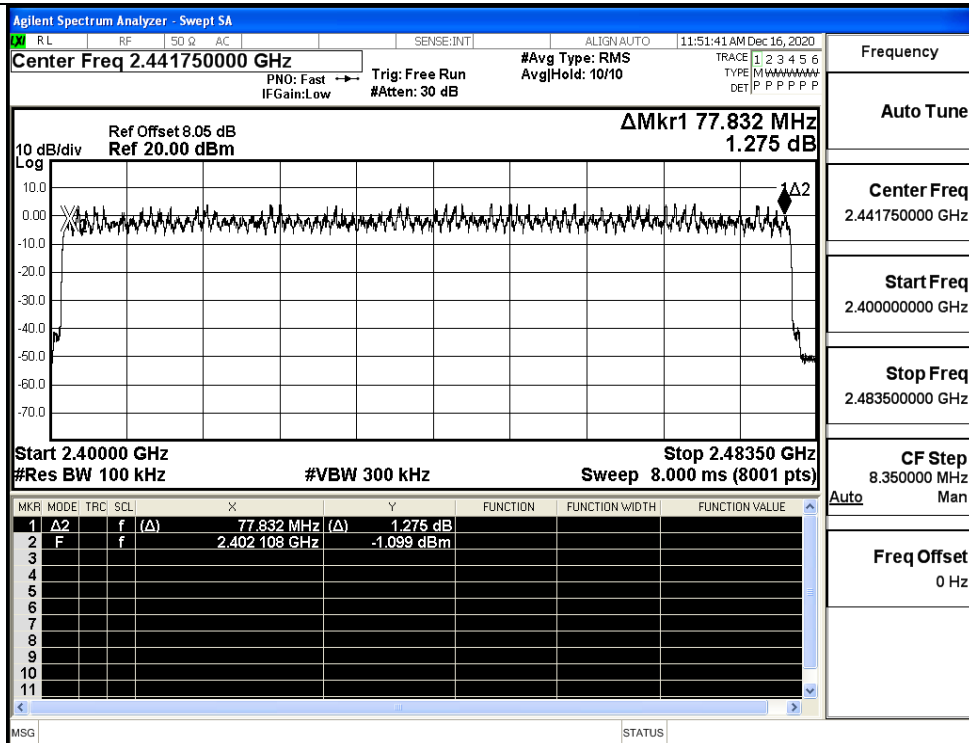
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS
$\pi/4$ DQPSK	Hop	79	>=15	PASS
8DPSK	Hop	79	>=15	PASS

Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

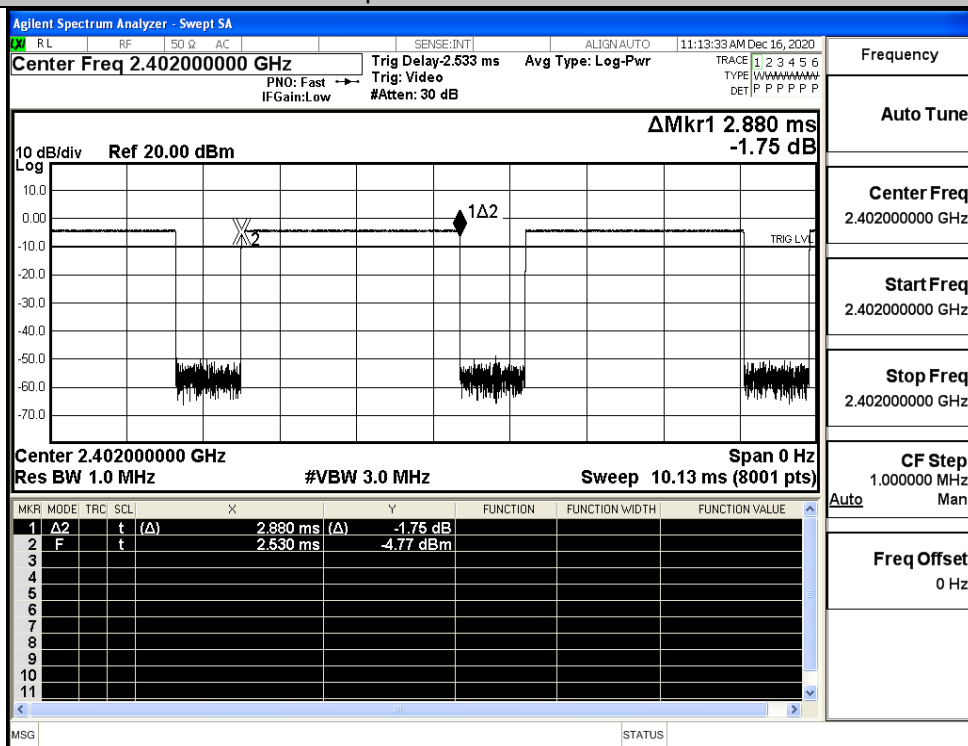


A.5 Dwell Time

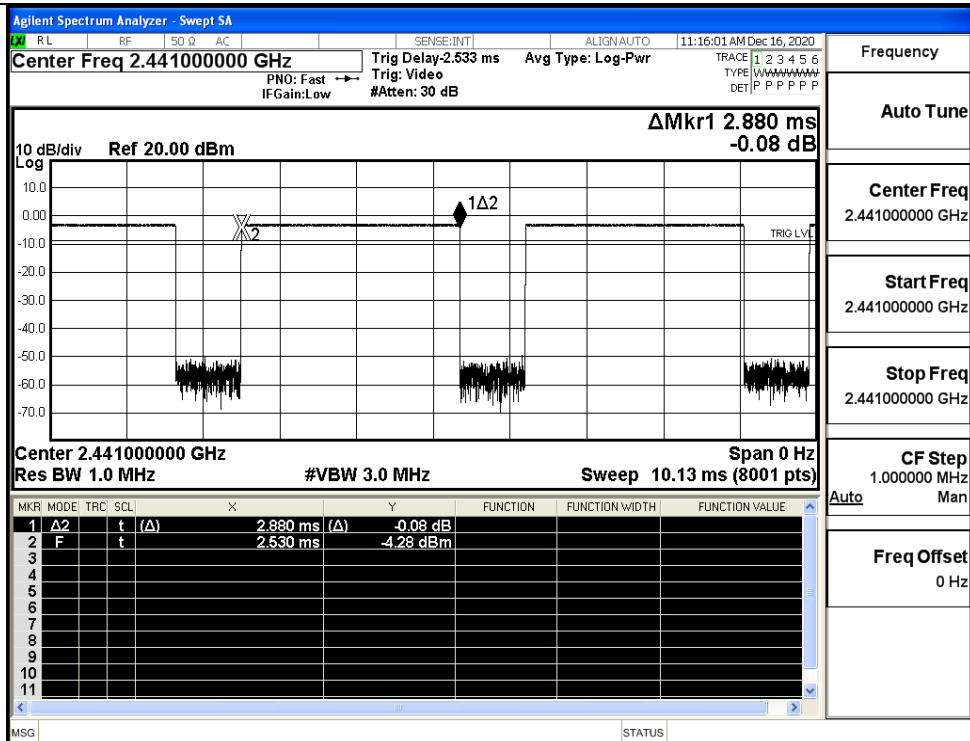
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.880	106.7	0.307	0.4	PASS
	DH5	MCH	2.880	106.7	0.307	0.4	PASS
	DH5	HCH	2.880	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.883	106.7	0.308	0.4	PASS
	2DH5	MCH	2.883	106.7	0.308	0.4	PASS
	2DH5	HCH	2.883	106.7	0.308	0.4	PASS
8DPSK	3DH5	LCH	2.885	106.7	0.309	0.4	PASS
	3DH5	MCH	2.885	106.7	0.309	0.4	PASS
	3DH5	HCH	2.885	106.7	0.309	0.4	PASS

Test Graphs

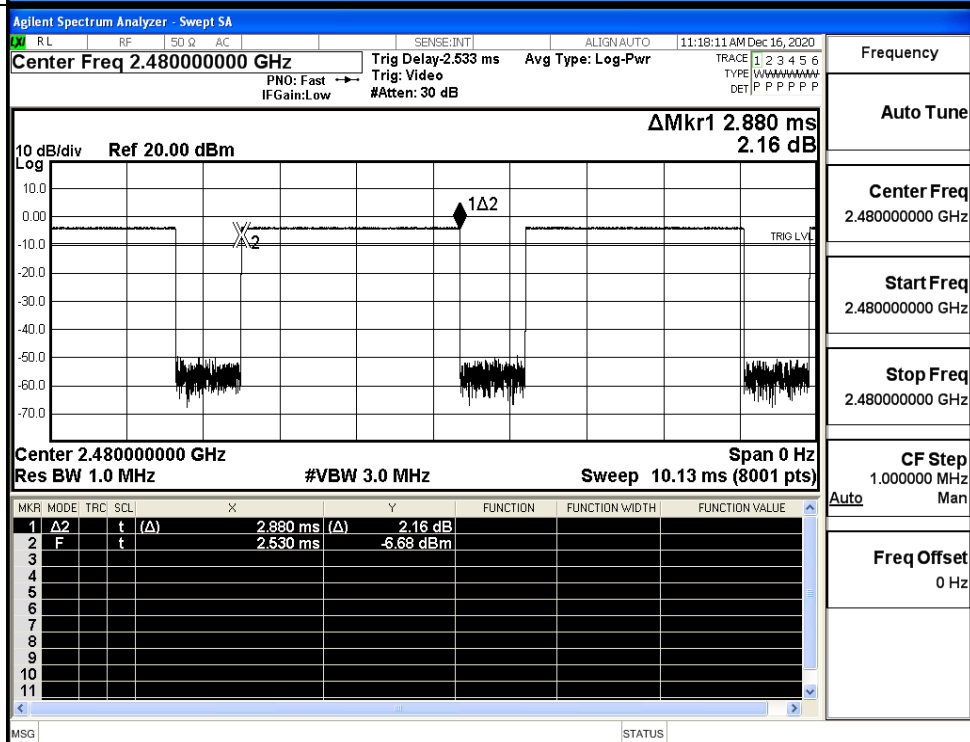
GFSK_DH5/LCH



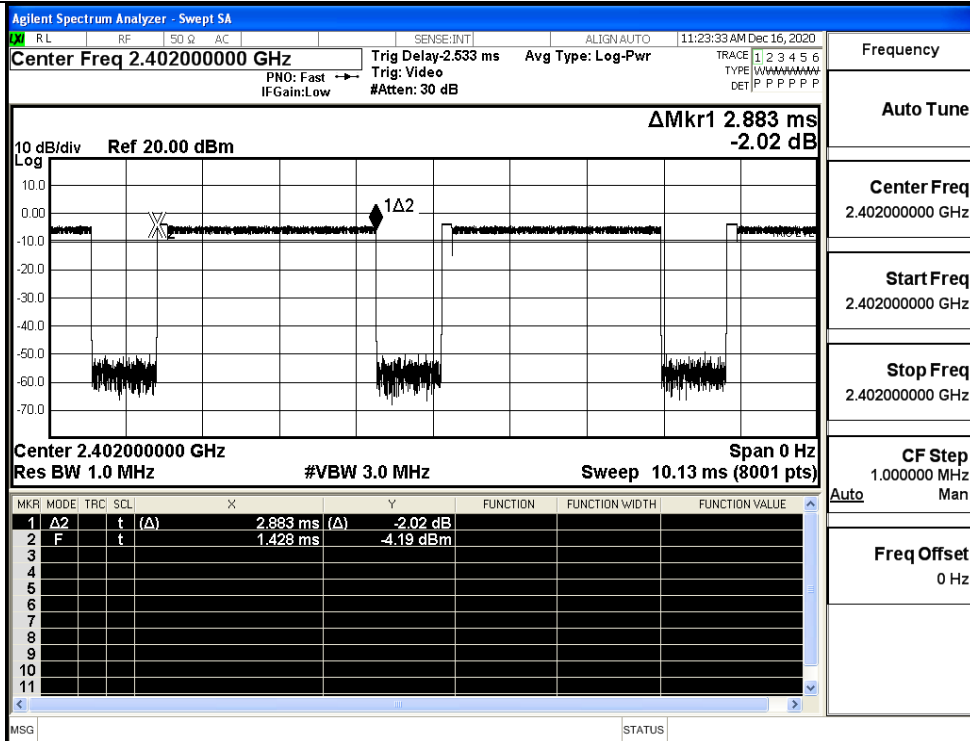
GFSK_DH5/MCH



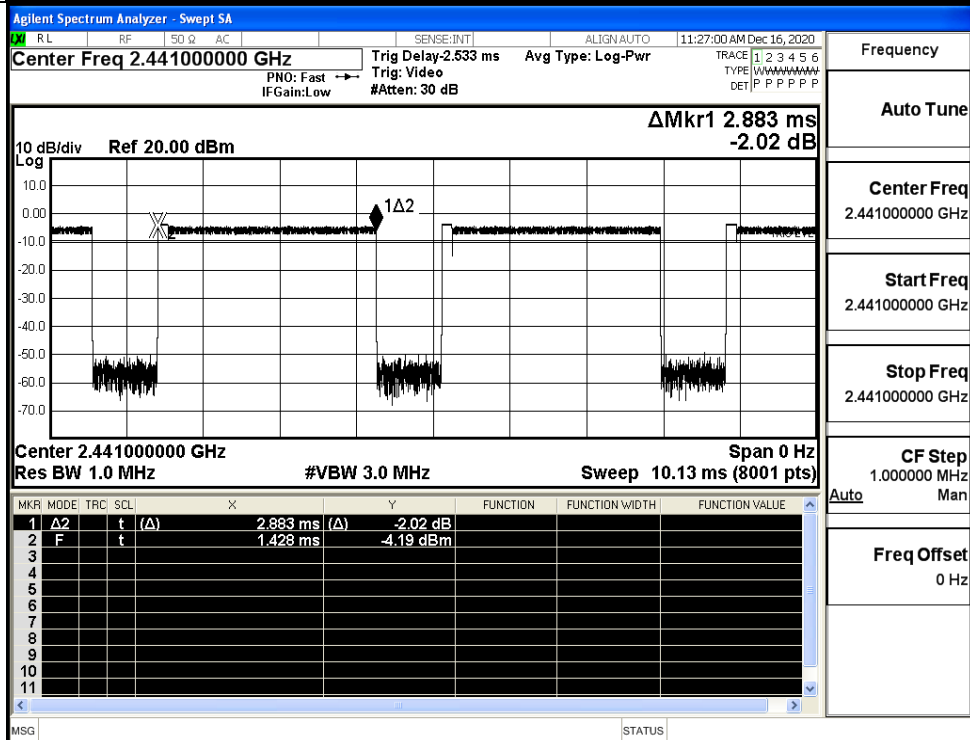
GFSK_DH5/HCH



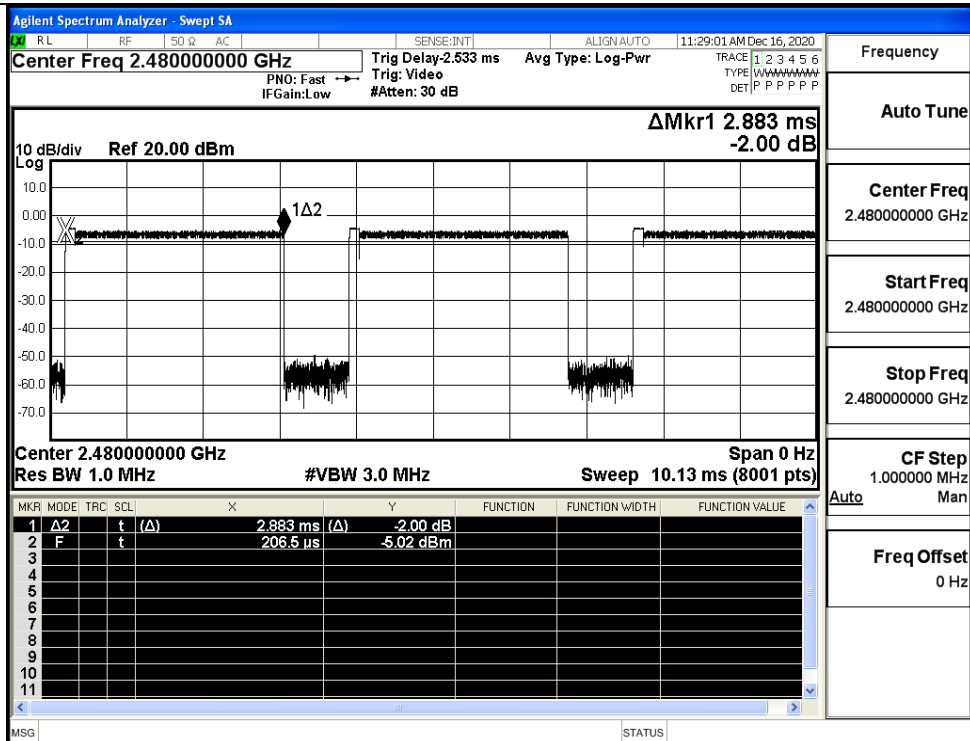
$\pi/4$ DQPSK
_2DH5/LCH



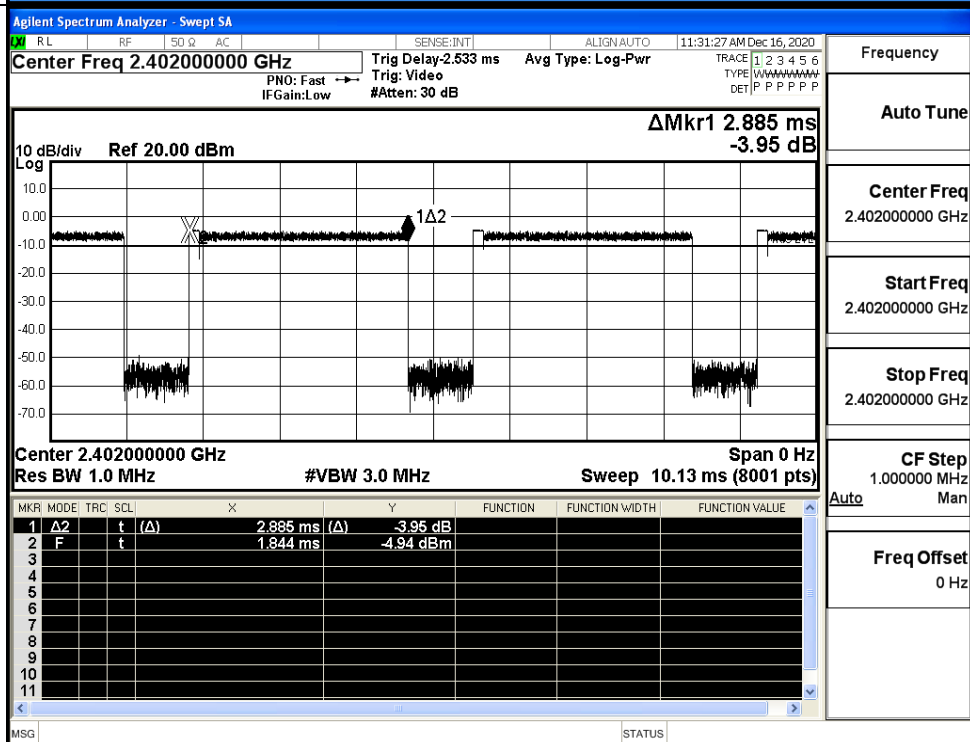
$\pi/4$ DQPSK
_2DH5/MCH



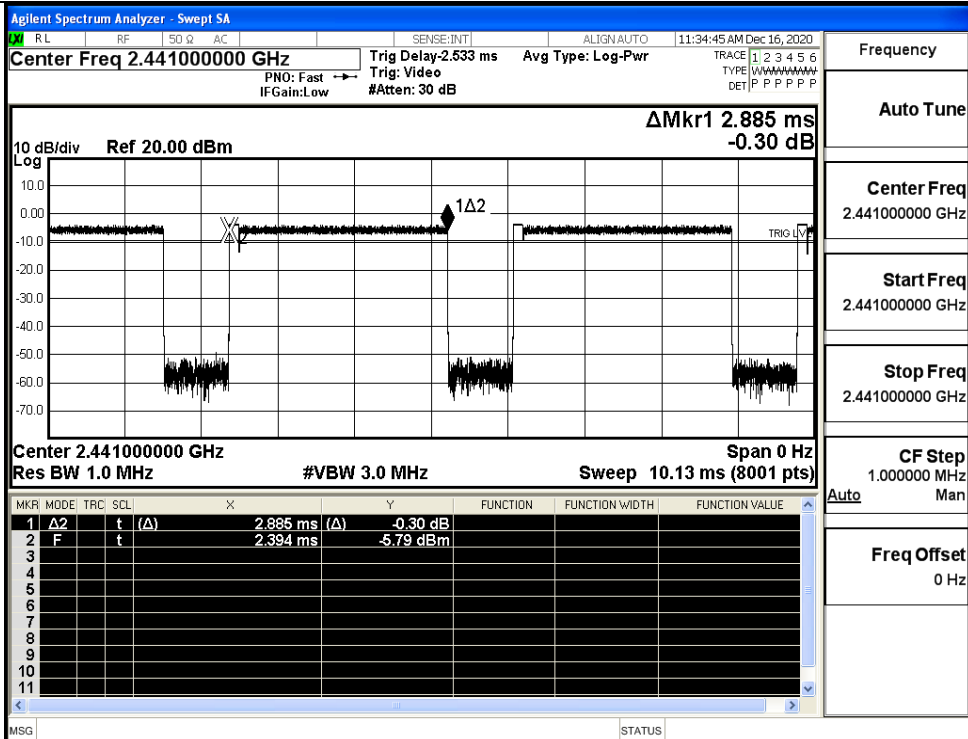
$\pi/4$ DQPSK
_2DH5/HCH



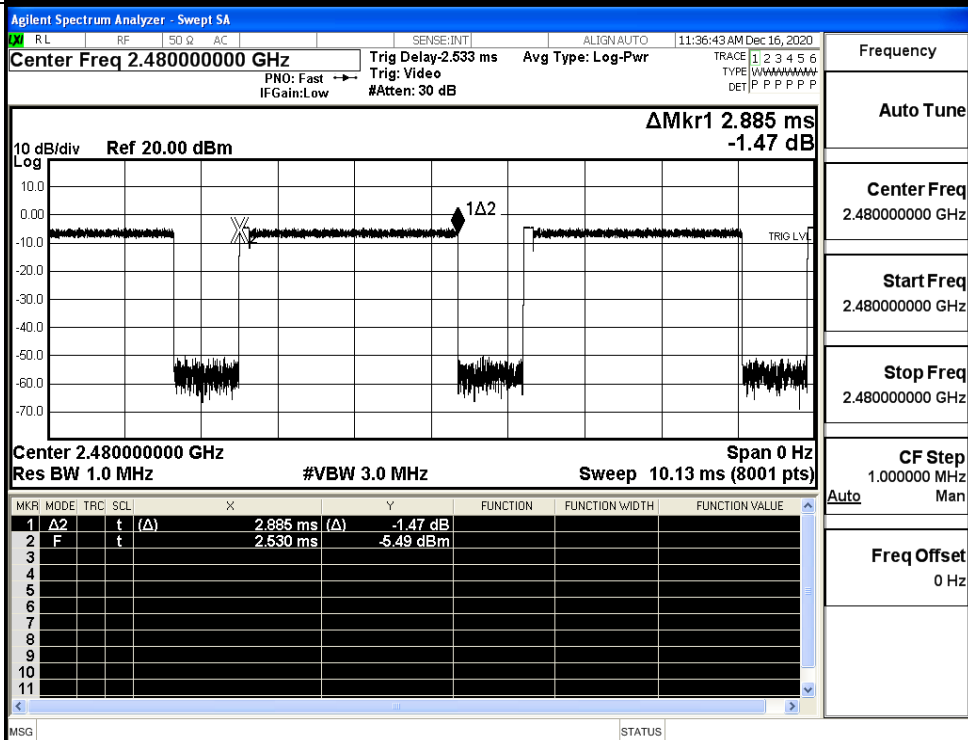
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



8DPSK_3DH5/HCH

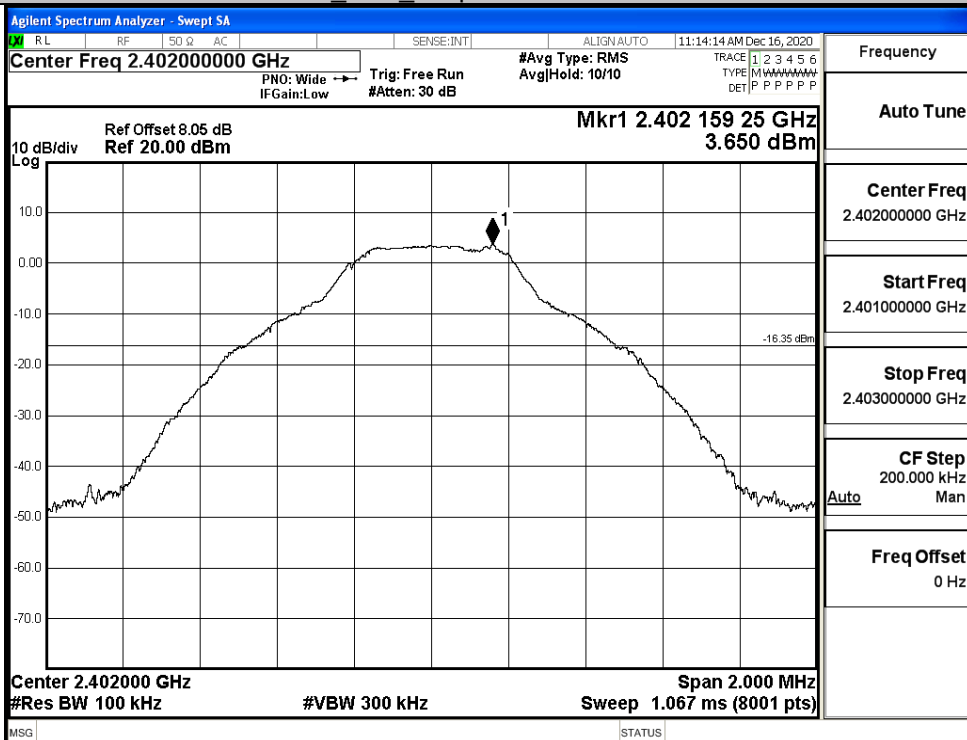


A.6 RF Conducted Spurious Emissions

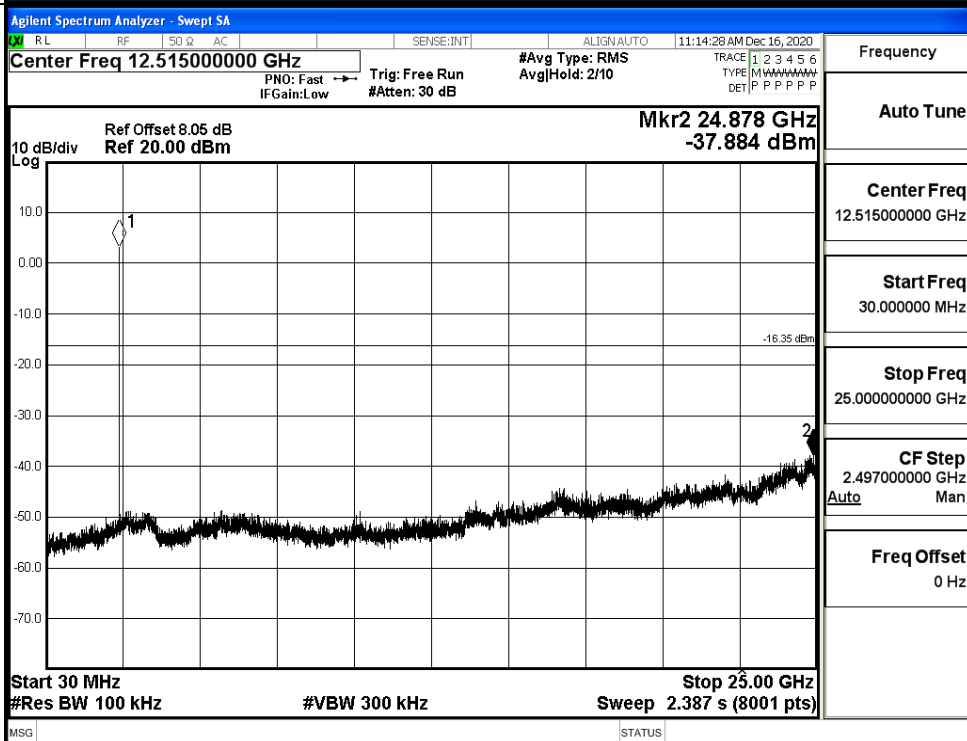
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	3.65	-37.884	-16.350	PASS
	MCH	4.704	-37.660	-15.296	PASS
	HCH	3.972	-37.108	-16.028	PASS
$\pi/4$ DQPSK	LCH	3.087	-37.557	-16.913	PASS
	MCH	4.363	-37.562	-15.637	PASS
	HCH	3.51	-37.722	-16.490	PASS
8DPSK	LCH	3.24	-37.746	-16.760	PASS
	MCH	4.352	-38.219	-15.648	PASS
	HCH	2.842	-38.079	-17.158	PASS

GFSK LCH Graphs

Pref

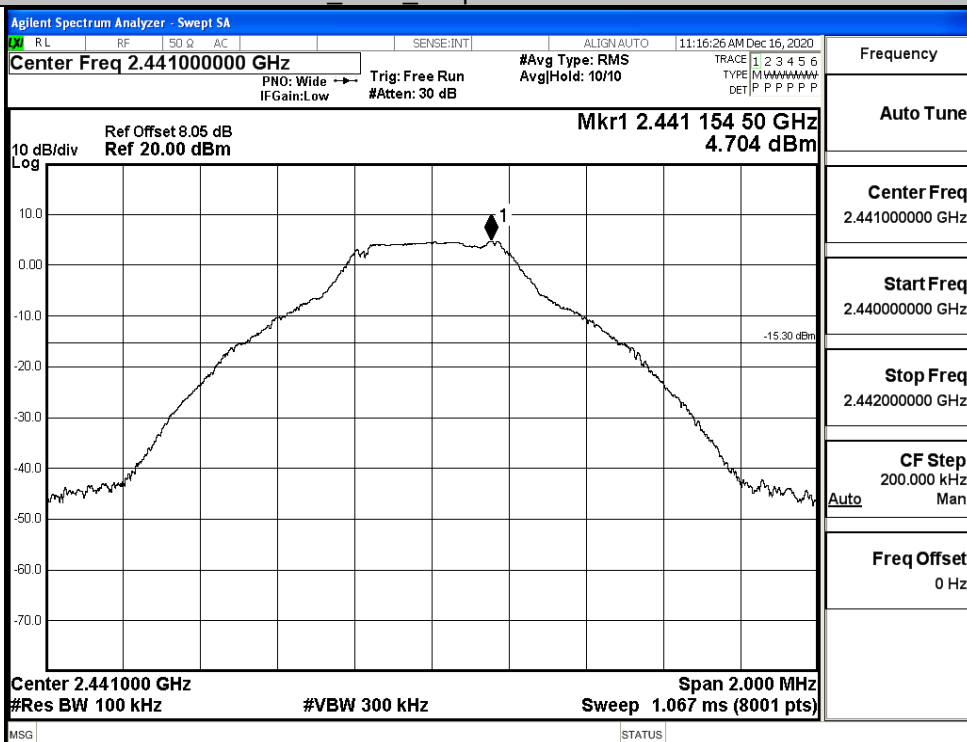


Puw

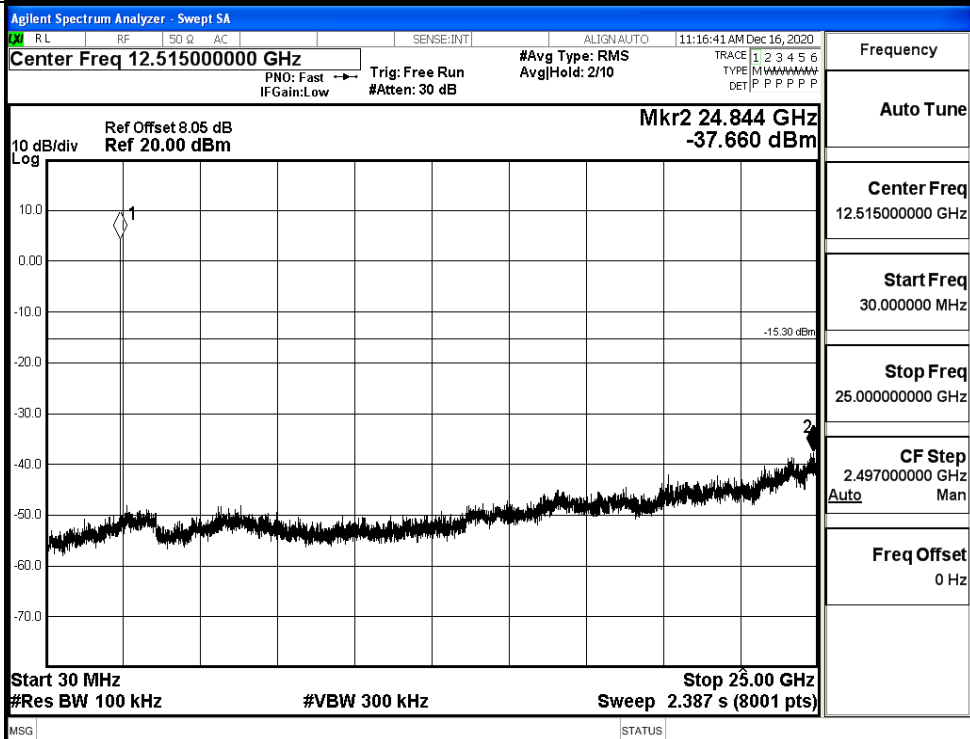


GFSK_MCH_Graphs

Pref

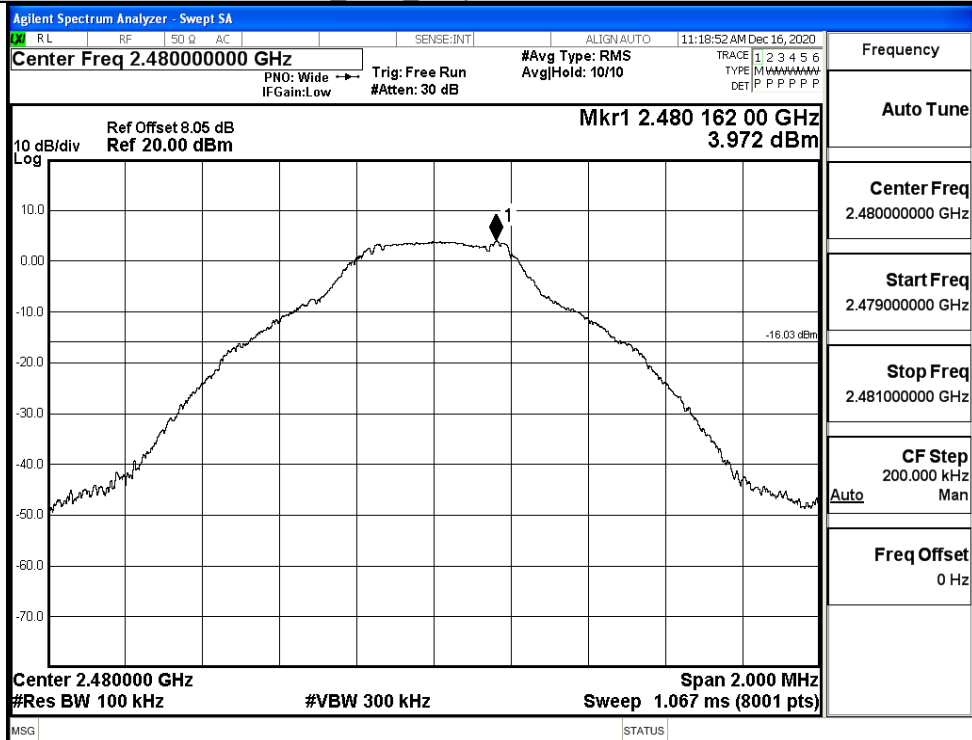


Puw

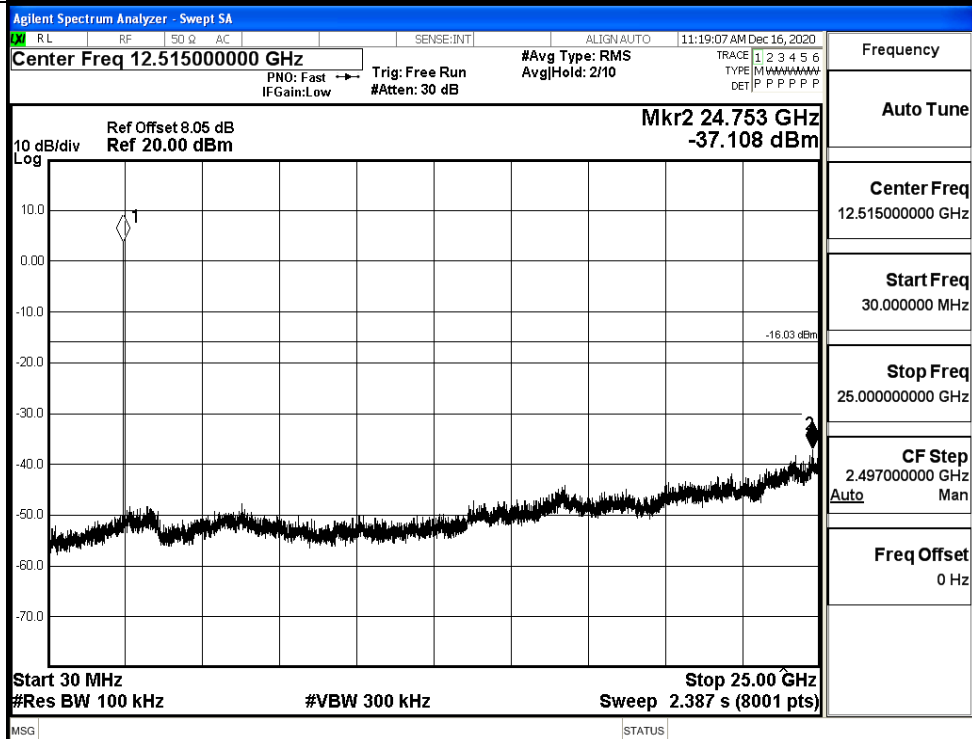


GFSK_HCH_Graphs

Pref

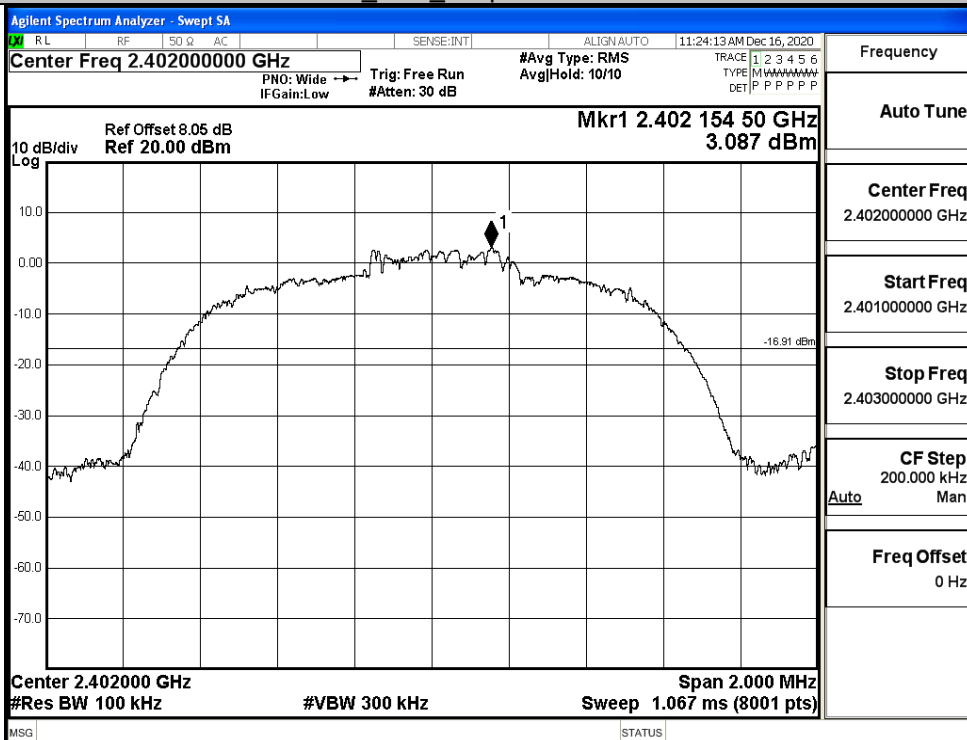


Puw

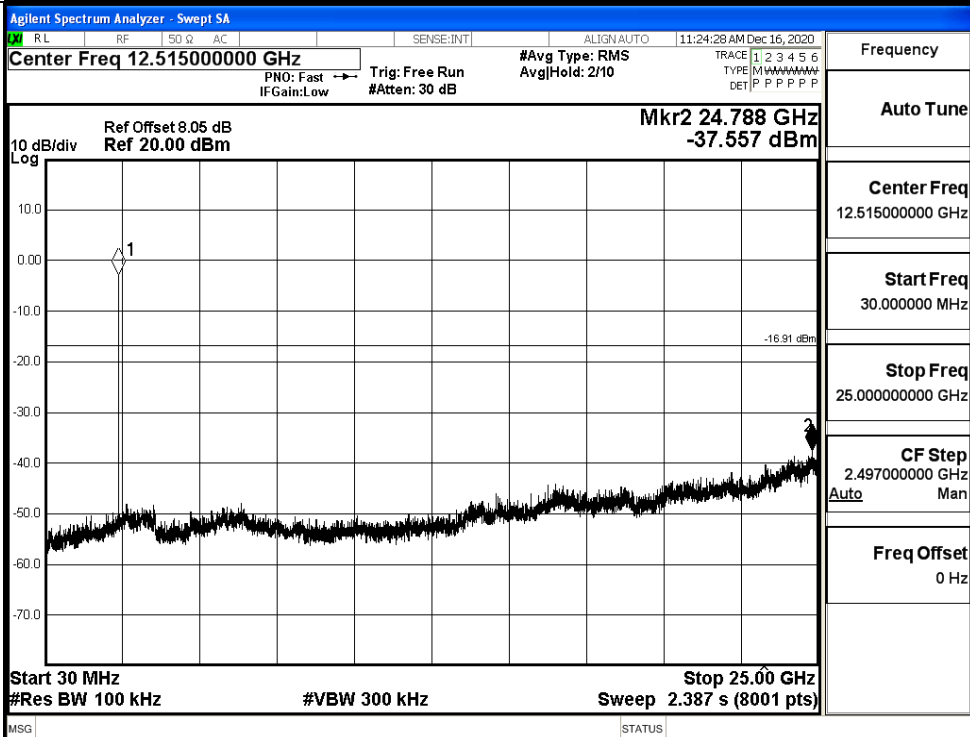


$\pi/4$ DQPSK_LCH_Graphs

Pref

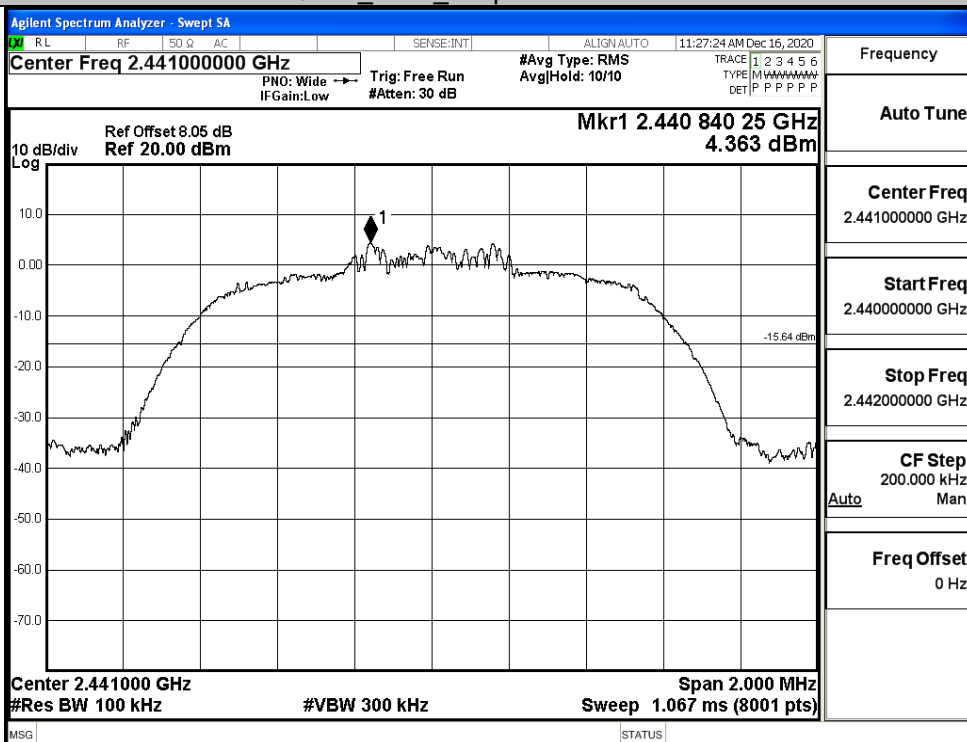


Puw

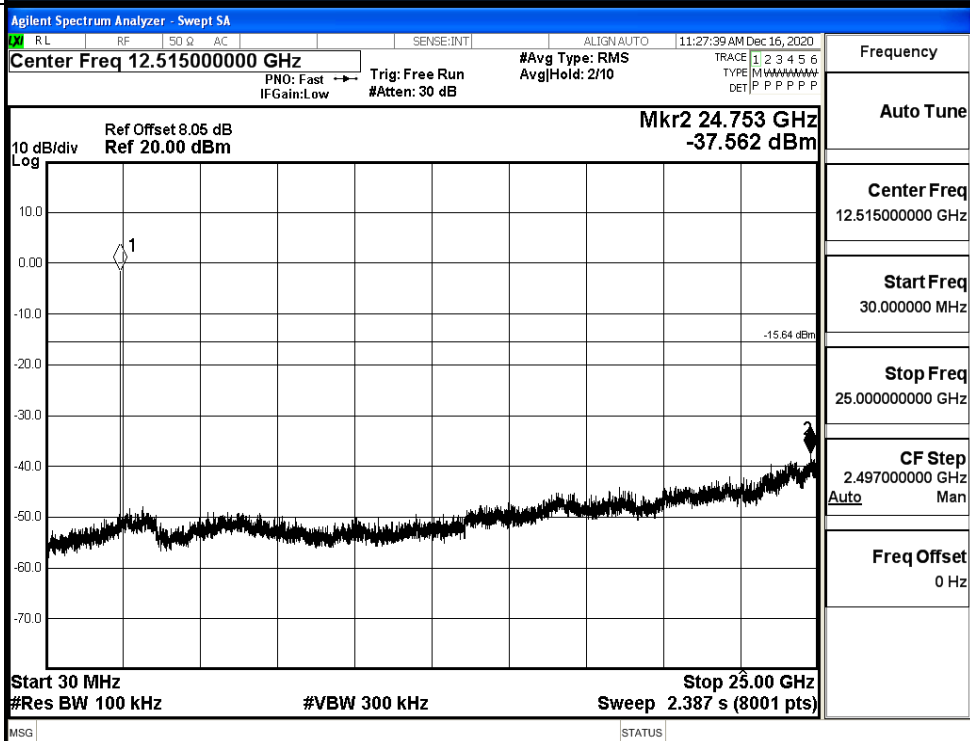


π /4DQPSK_MCH_Graphs

Pref

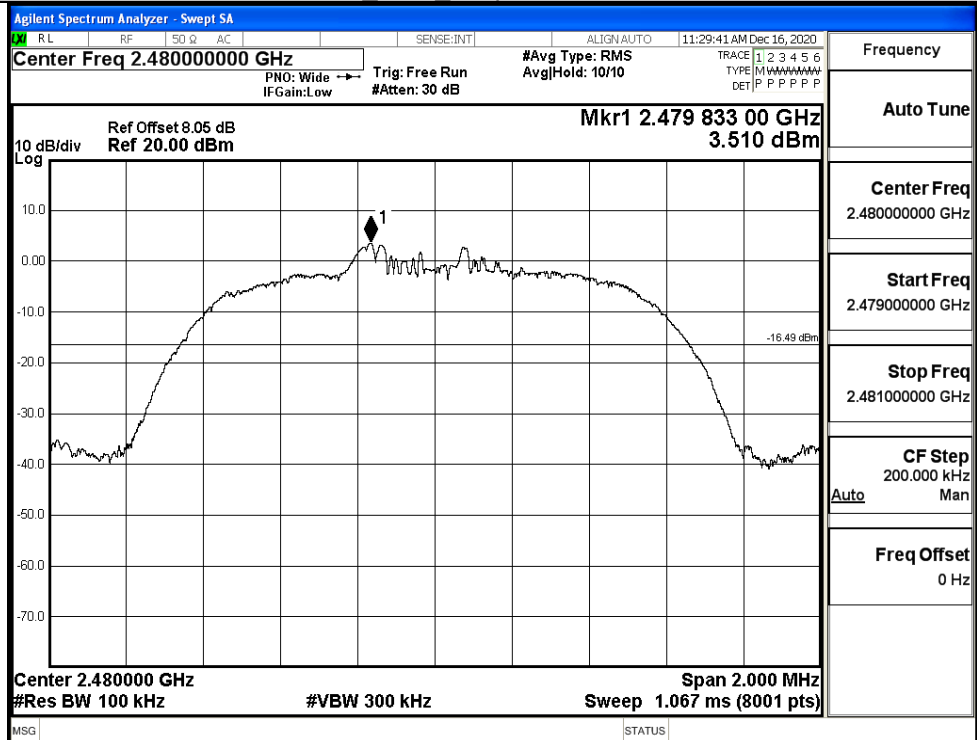


Puw

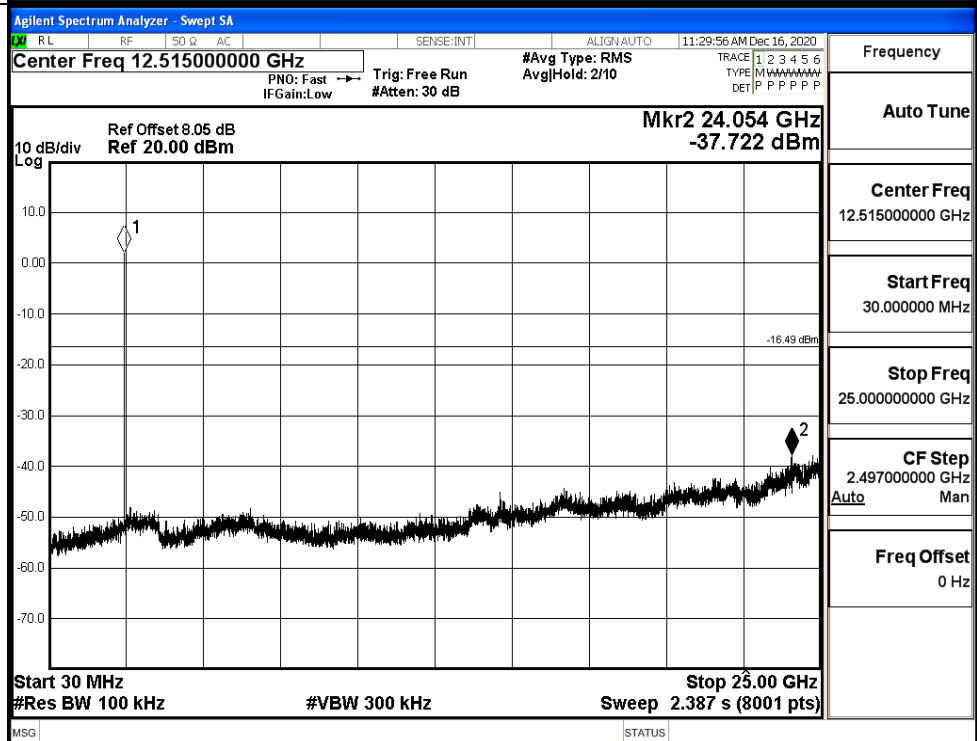


π /4DQPSK_HCH_Graphs

Pref

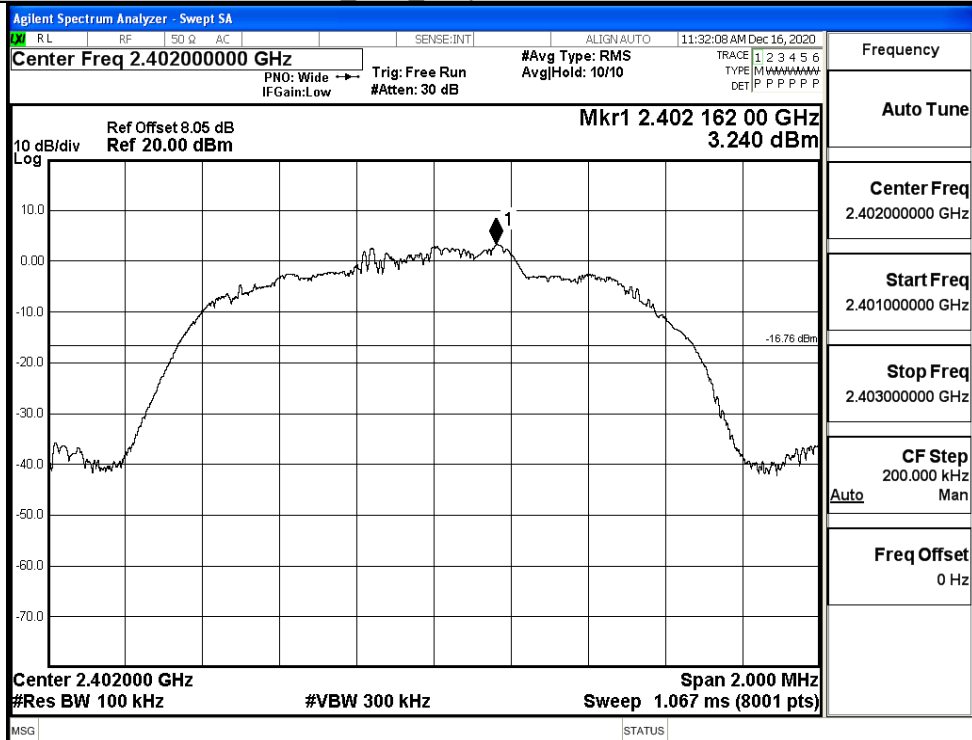


Puw

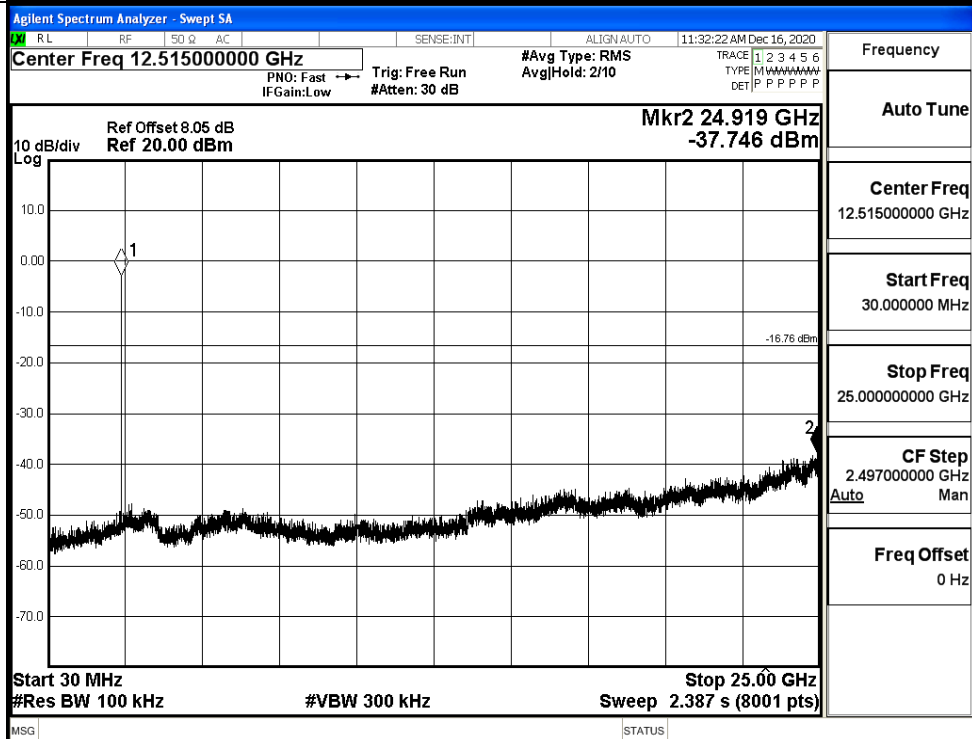


8DPSK_LCH_Graphs

Pref

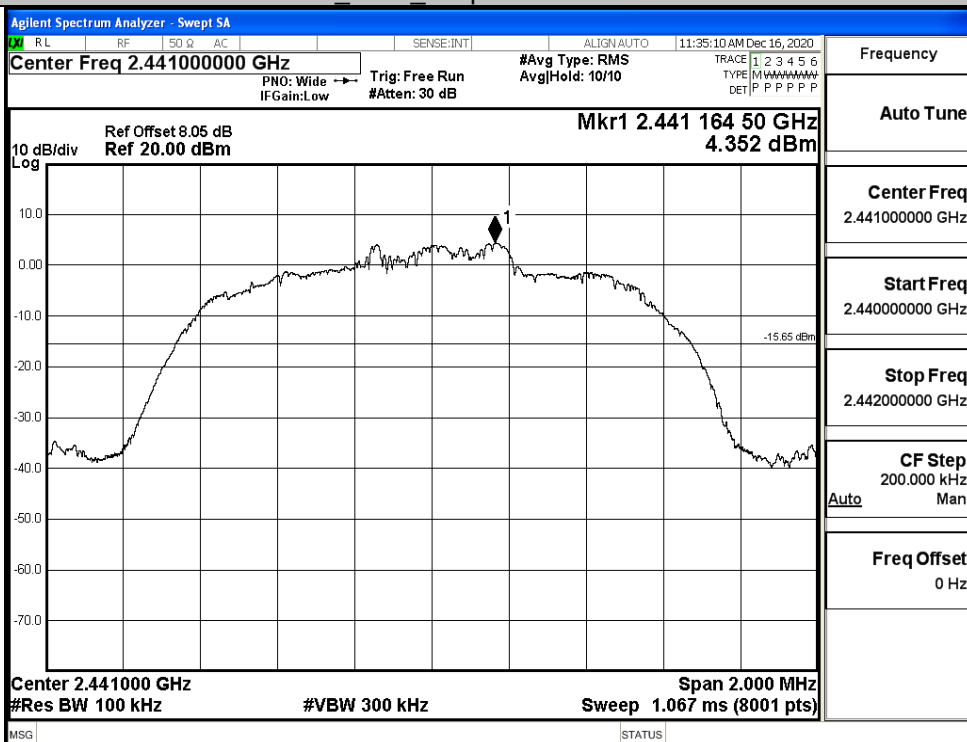


Puw

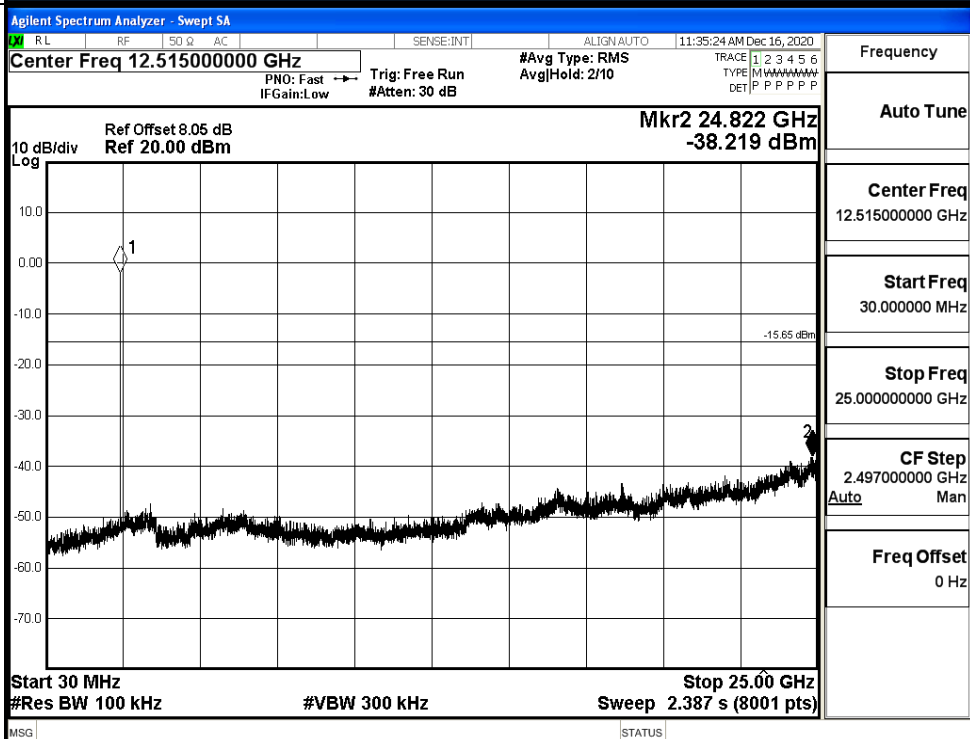


8DPSK_MCH_Graphs

Pref

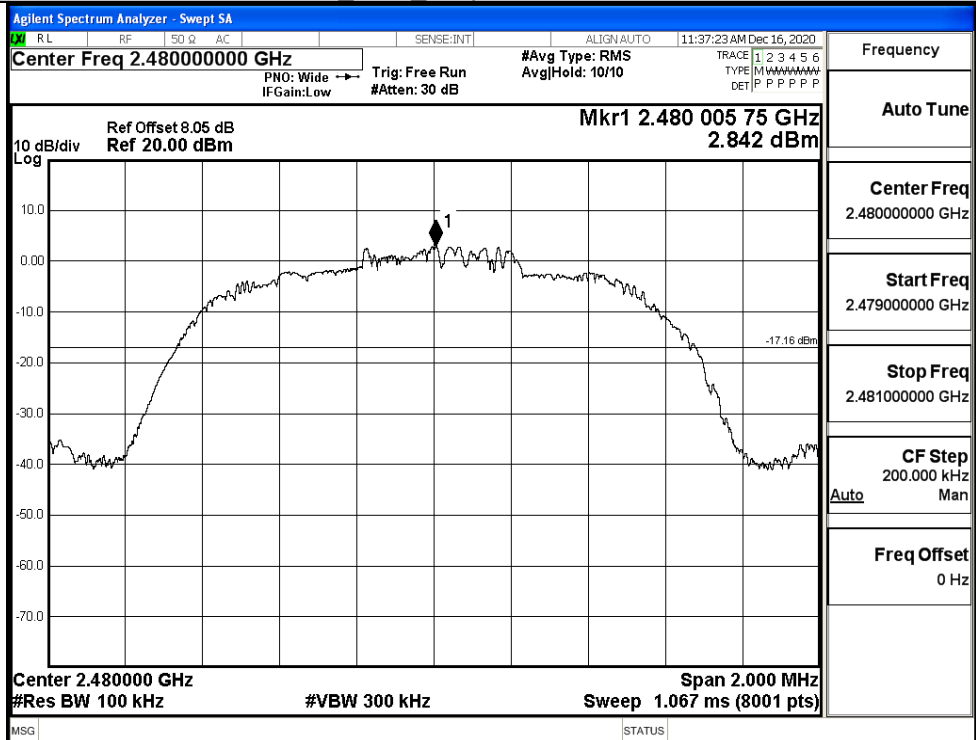


Puw

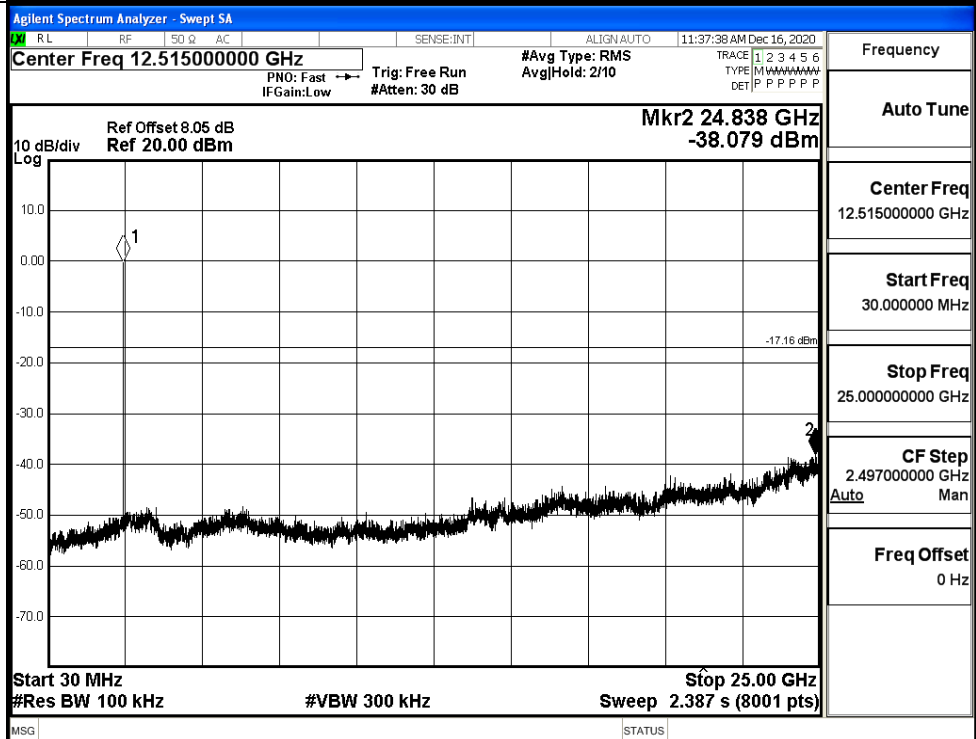


8DPSK_HCH_Graphs

Pref



Puw

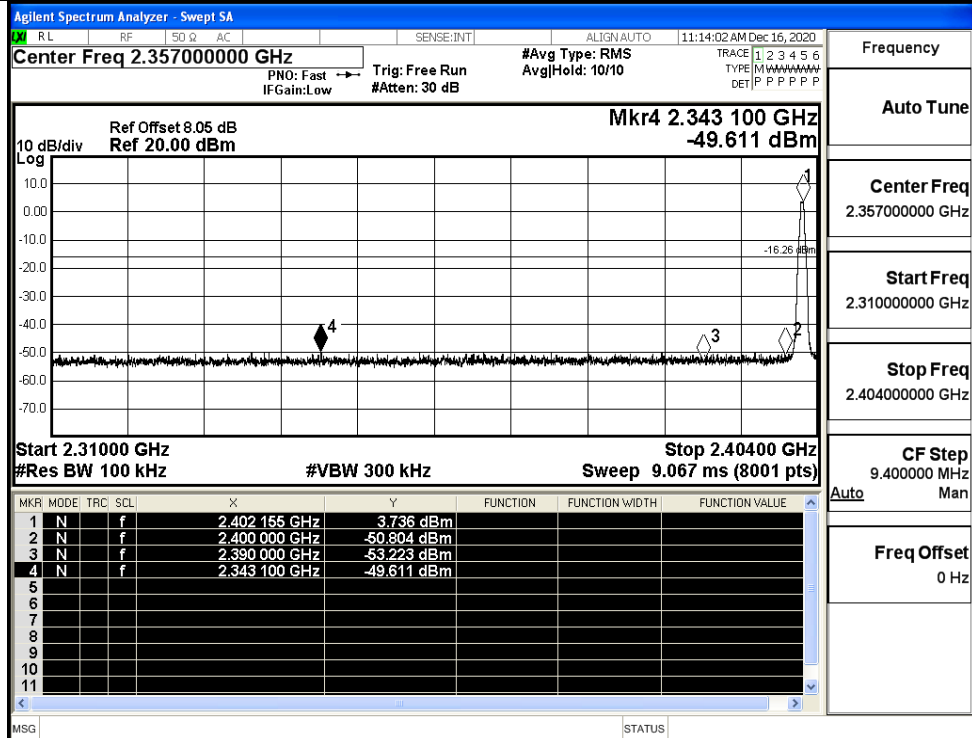


A.7 Band-edge for RF Conducted Emissions

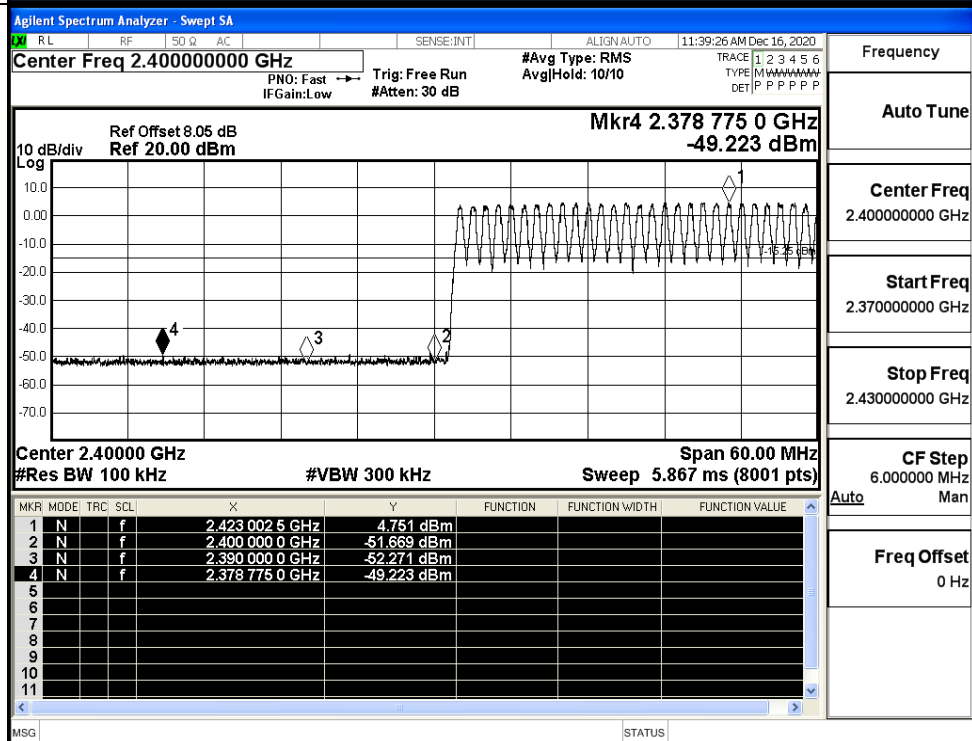
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	3.736	Off	-49.611	-16.26	PASS
			4.751	On	-49.223	-15.25	PASS
	HCH	2480	4.108	Off	-49.392	-15.89	PASS
			5.060	On	-48.422	-14.94	PASS
$\pi/4$ DQPSK	LCH	2402	3.264	Off	-49.488	-16.74	PASS
			4.084	On	-49.140	-15.92	PASS
	HCH	2480	3.546	Off	-49.012	-16.45	PASS
			4.402	On	-48.123	-15.6	PASS
8DPSK	LCH	2402	2.875	Off	-49.359	-17.13	PASS
			4.171	On	-49.198	-15.83	PASS
	HCH	2480	3.673	Off	-48.862	-16.33	PASS
			4.410	On	-48.595	-15.59	PASS

Test Graphs

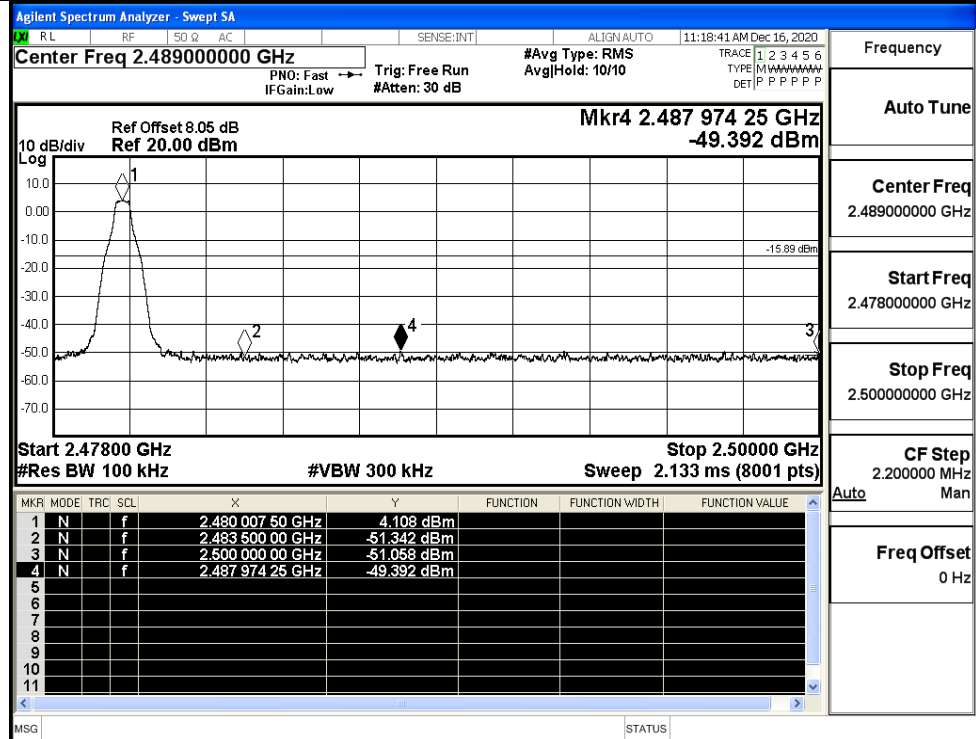
GFSK/LCH/No Hop



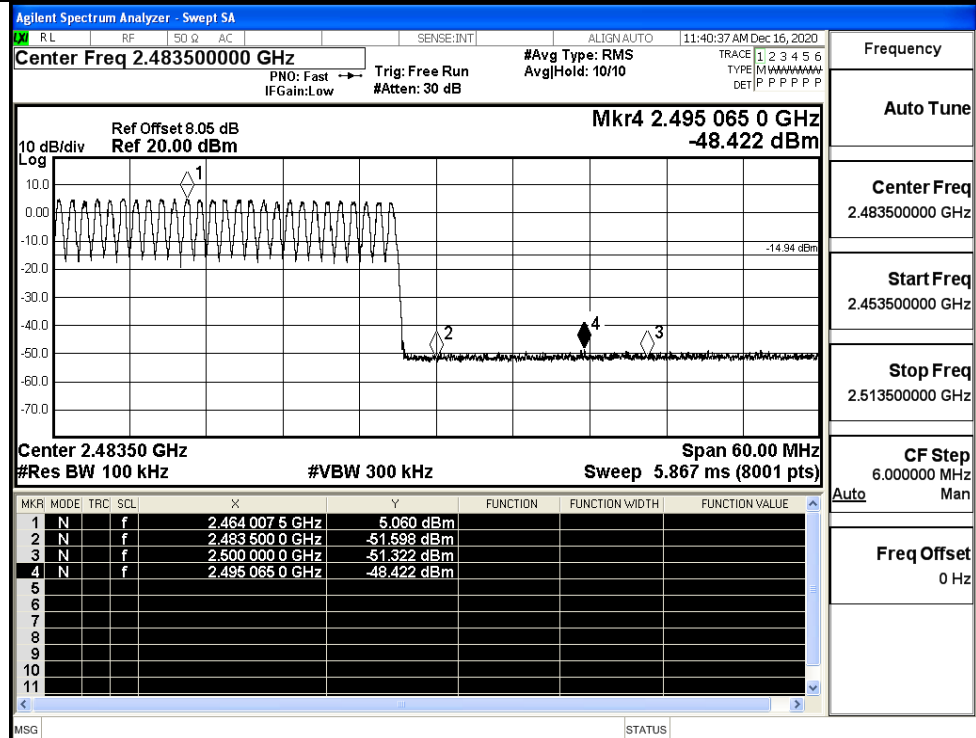
GFSK/LCH/Hop



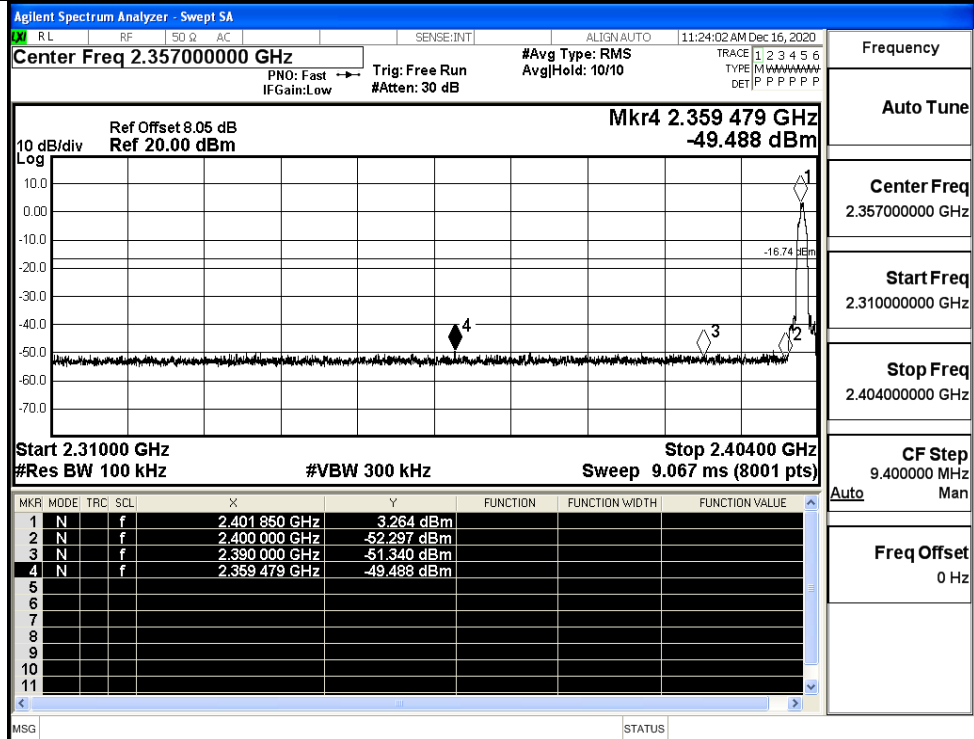
GFSK/HCH/No Hop



GFSK/HCH/Hop



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



Frequency

Auto Tune

Center Freq
2.357000000 GHz

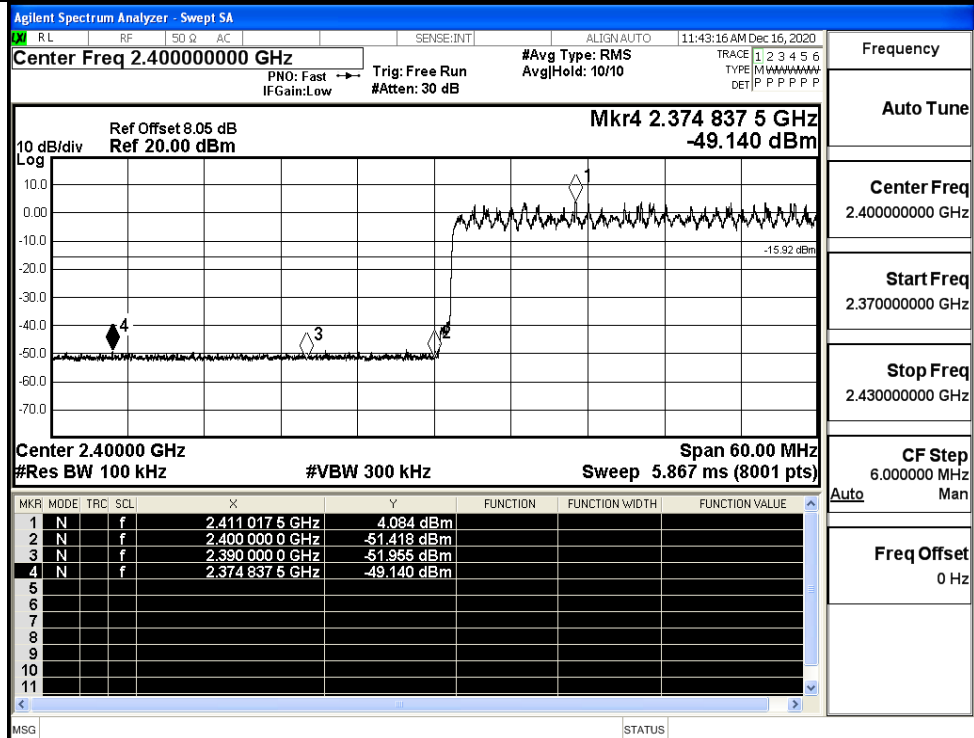
Start Freq
2.310000000 GHz

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

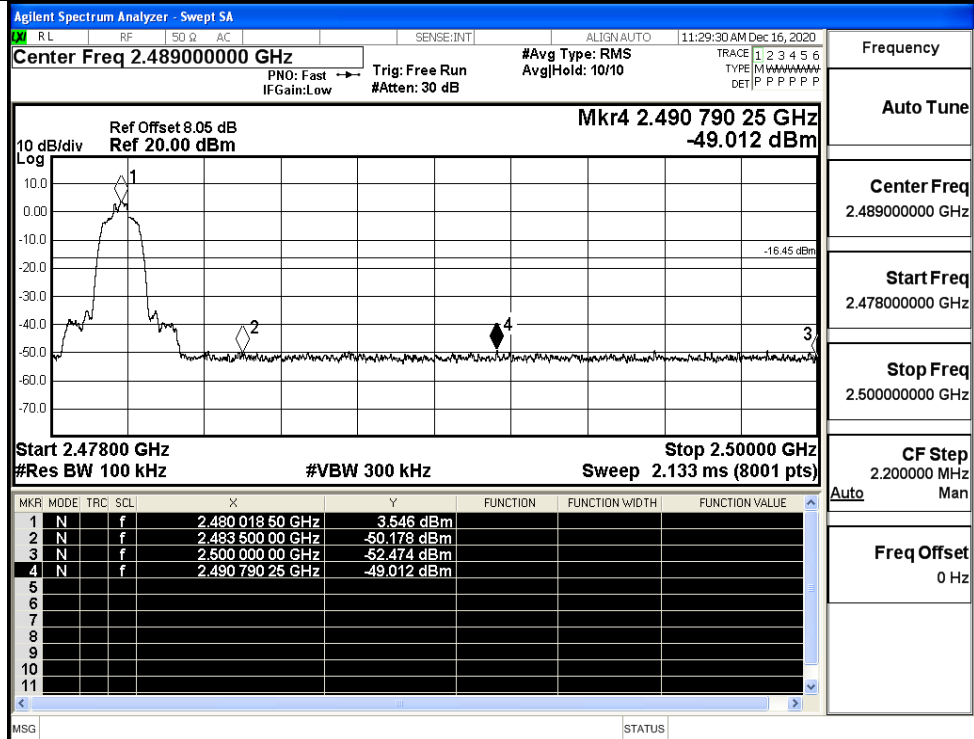
Start Freq
2.370000000 GHz

Stop Freq
2.430000000 GHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

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



Frequency

Auto Tune

Center Freq
2.489000000 GHz

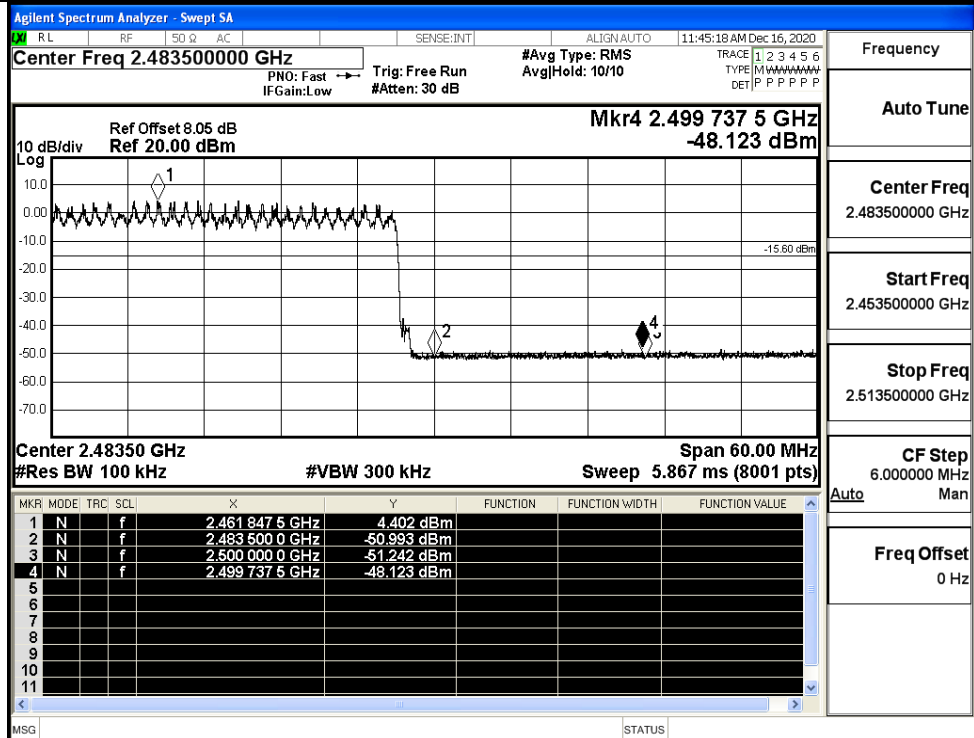
Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

CF Step
2.200000 MHz

Freq Offset
0 Hz

$\pi/4$ DQPSK/HCH/Hop



Frequency

Auto Tune

Center Freq
2.483500000 GHz

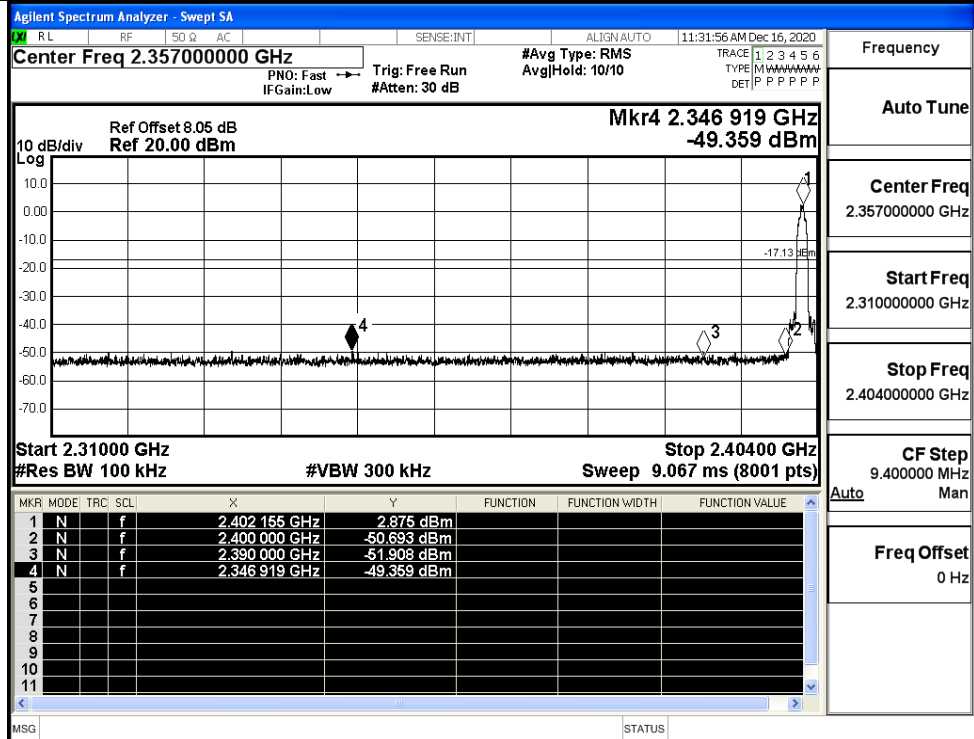
Start Freq
2.463500000 GHz

Stop Freq
2.513500000 GHz

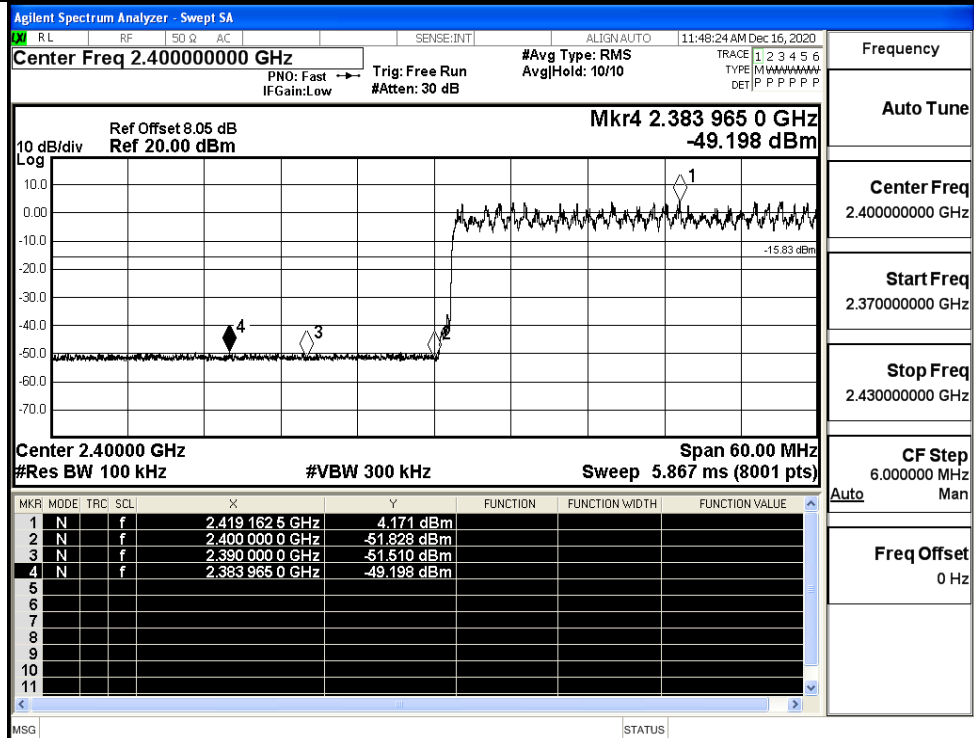
CF Step
6.000000 MHz

Freq Offset
0 Hz

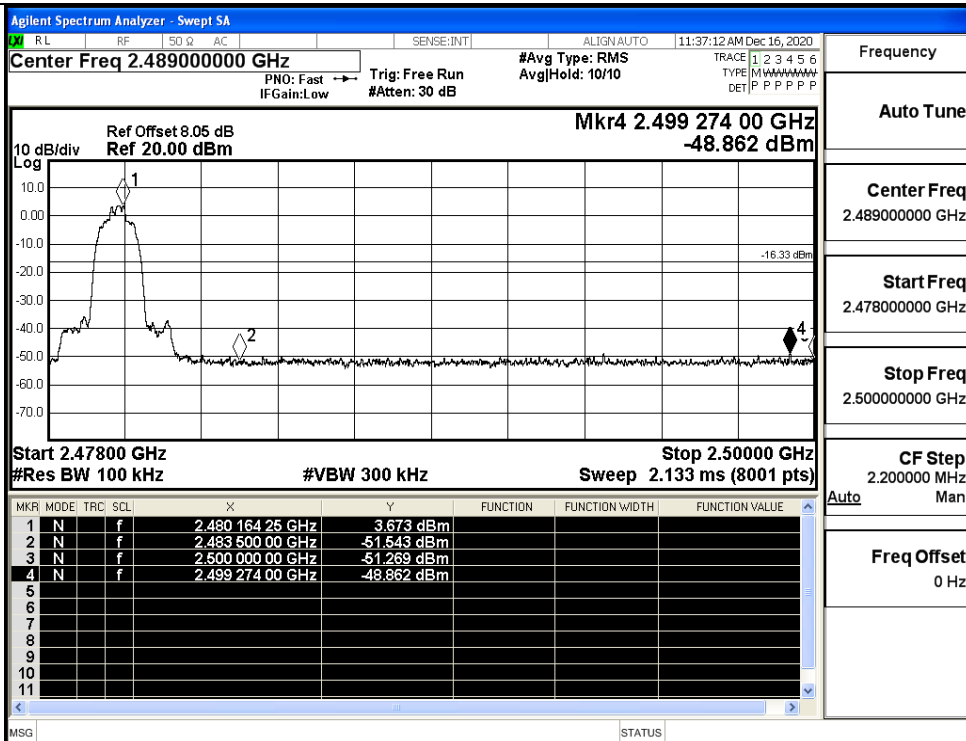
8DPSK/LCH/No Hop



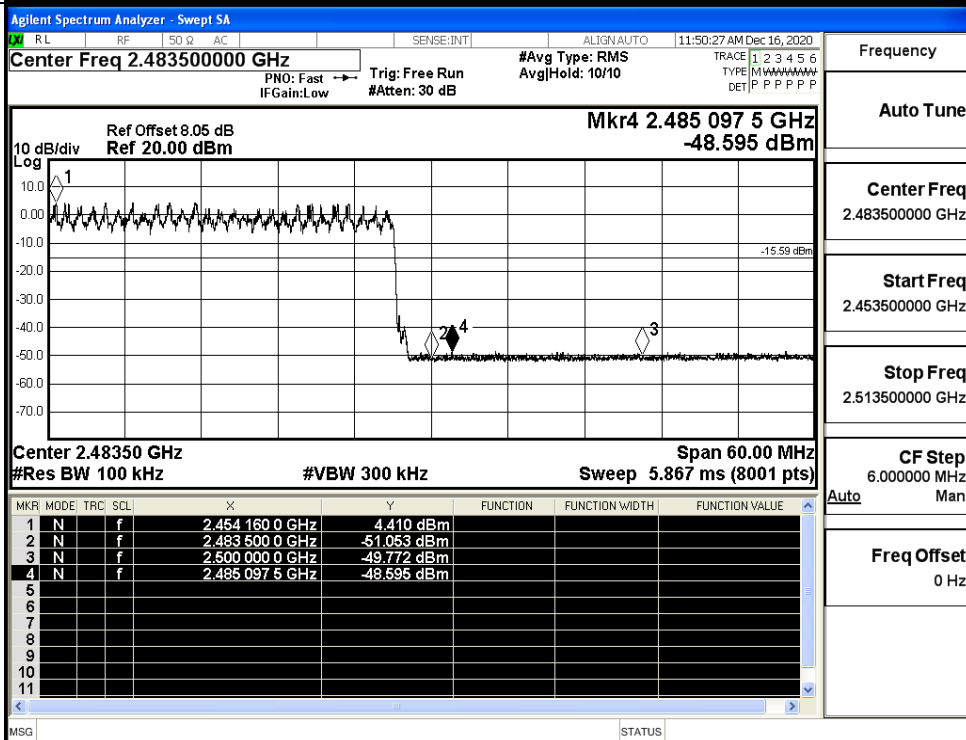
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



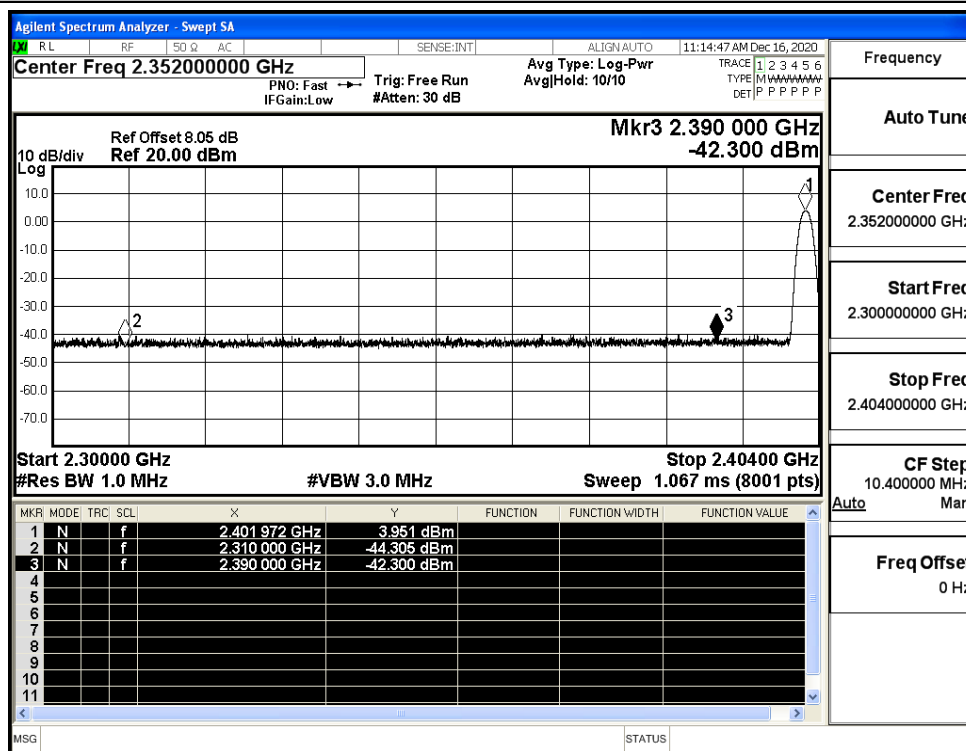
8DPSK/HCH/Hop



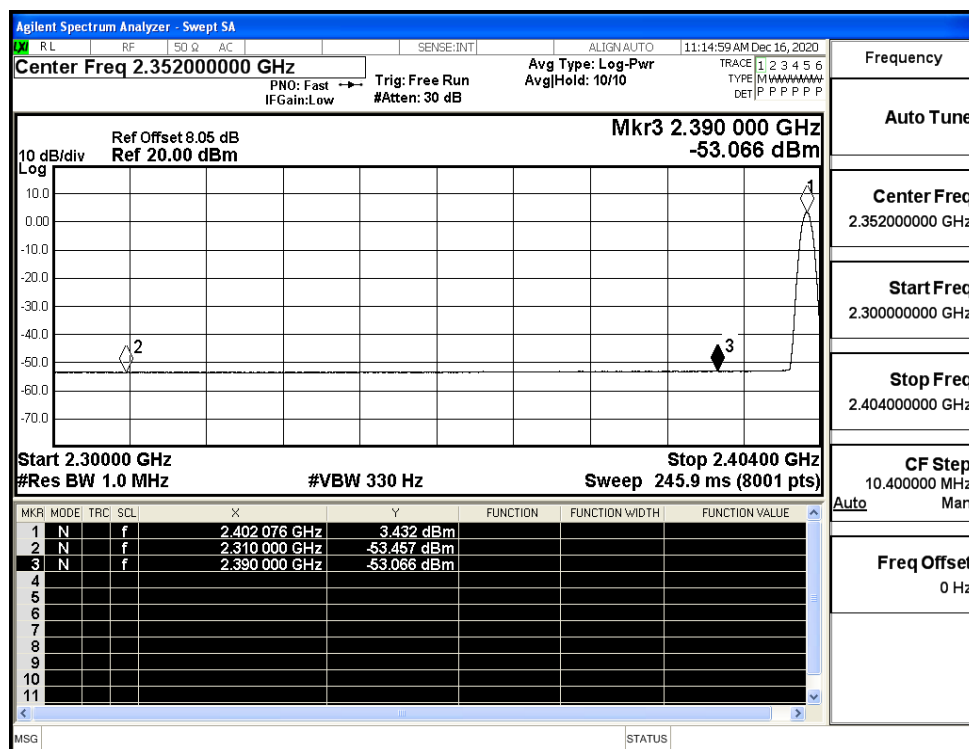
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-44.31	2.1	0	53.02	PEAK	74	PASS
	Off	2310.0	-53.46	2.1	0	43.87	AV	54	PASS
	Off	2390.0	-42.30	2.1	0	55.03	PEAK	74	PASS
	Off	2390.0	-53.07	2.1	0	44.26	AV	54	PASS
	Off	2483.5	-41.93	2.1	0	55.40	PEAK	74	PASS
	Off	2483.5	-52.53	2.1	0	44.80	AV	54	PASS
	Off	2500.0	-40.61	2.1	0	56.72	PEAK	74	PASS
	Off	2500.0	-52.42	2.1	0	44.91	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-43.95	2.1	0	53.38	PEAK	74	PASS
	Off	2310.0	-53.30	2.1	0	44.03	AV	54	PASS
	Off	2390.0	-42.53	2.1	0	54.80	PEAK	74	PASS
	Off	2390.0	-53.08	2.1	0	44.25	AV	54	PASS
	Off	2483.5	-42.32	2.1	0	55.01	PEAK	74	PASS
	Off	2483.5	-52.40	2.1	0	44.93	AV	54	PASS
	Off	2500.0	-42.62	2.1	0	54.71	PEAK	74	PASS
	Off	2500.0	-52.46	2.1	0	44.87	AV	54	PASS
8DPSK	Off	2310.0	-43.30	2.1	0	54.03	PEAK	74	PASS
	Off	2310.0	-53.33	2.1	0	44.00	AV	54	PASS
	Off	2390.0	-41.81	2.1	0	55.52	PEAK	74	PASS
	Off	2390.0	-53.13	2.1	0	44.20	AV	54	PASS
	Off	2483.5	-40.60	2.1	0	56.73	PEAK	74	PASS
	Off	2483.5	-52.42	2.1	0	44.91	AV	54	PASS
	Off	2500.0	-42.19	2.1	0	55.14	PEAK	74	PASS
	Off	2500.0	-52.37	2.1	0	44.96	AV	54	PASS

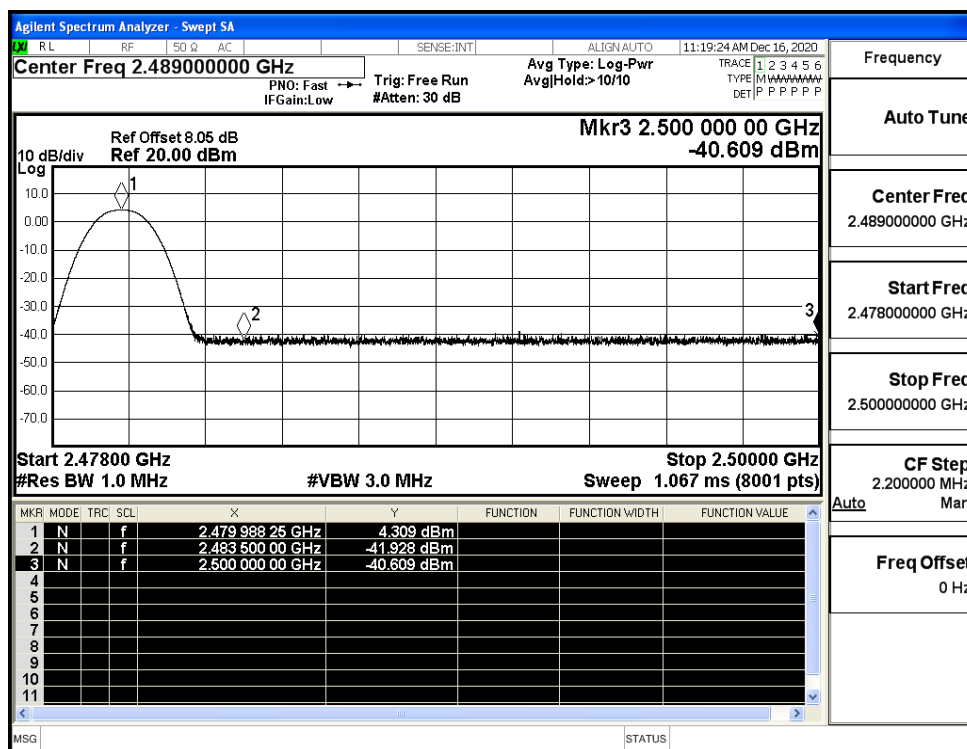
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



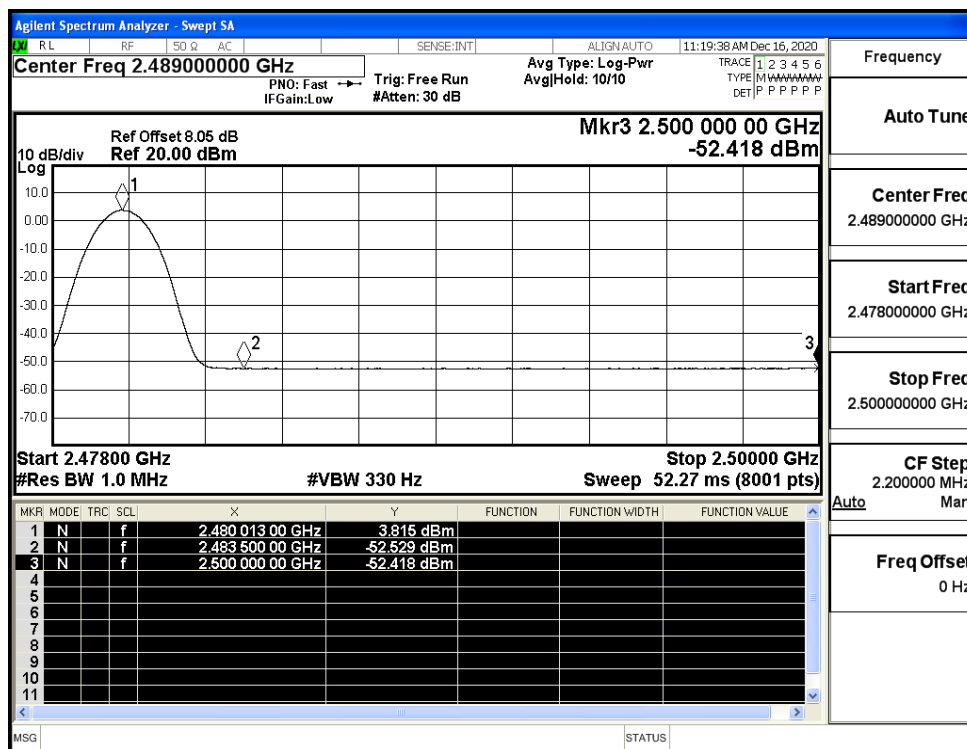
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)

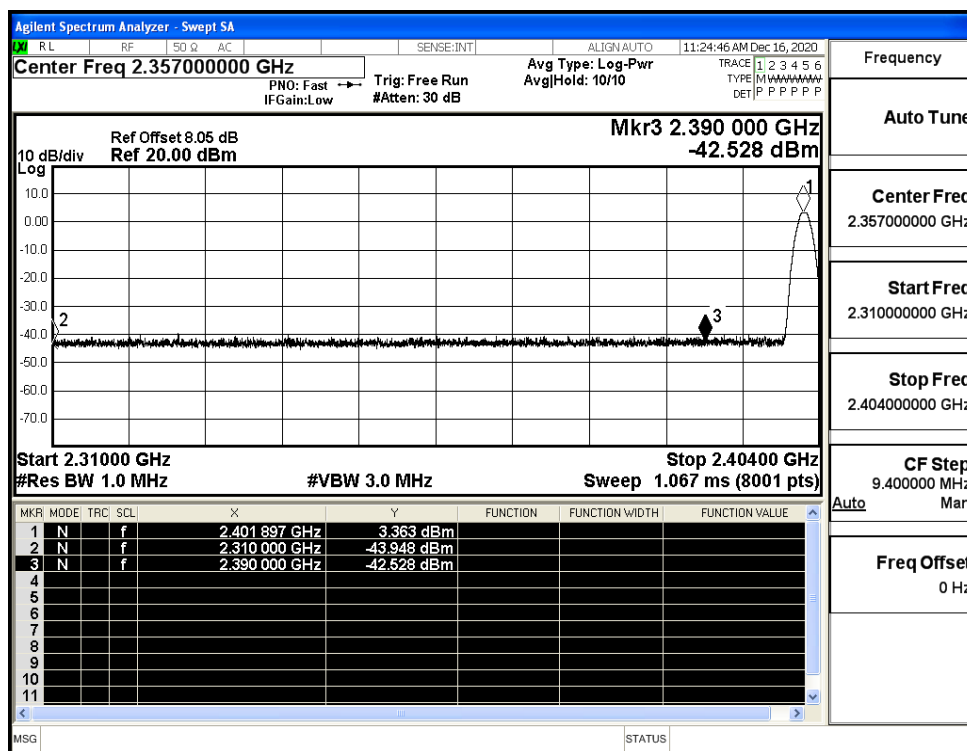
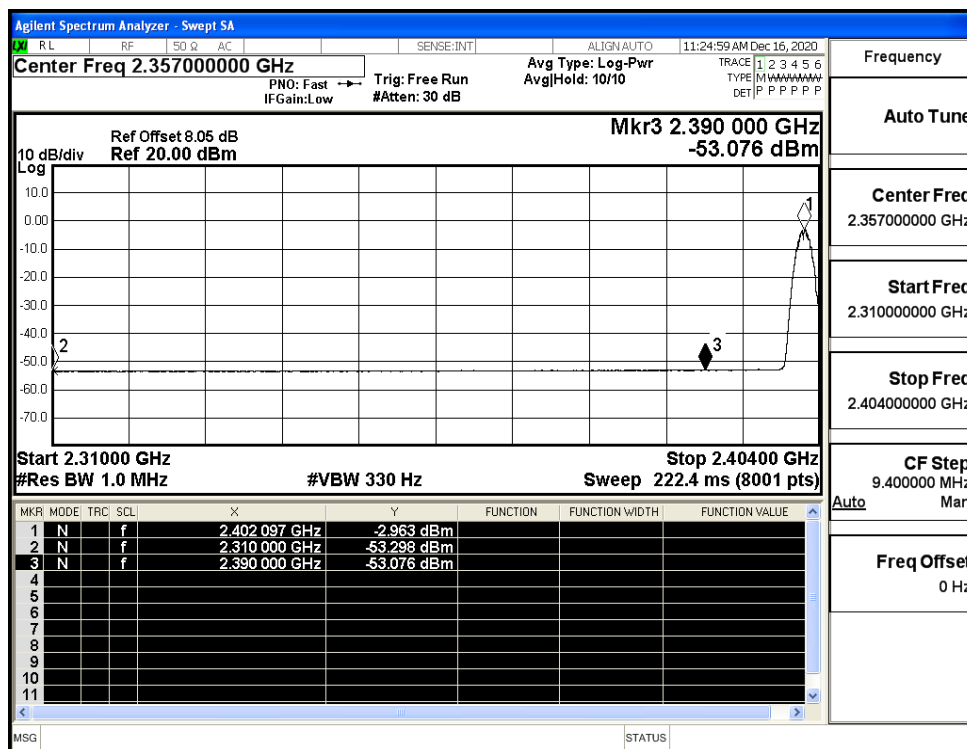


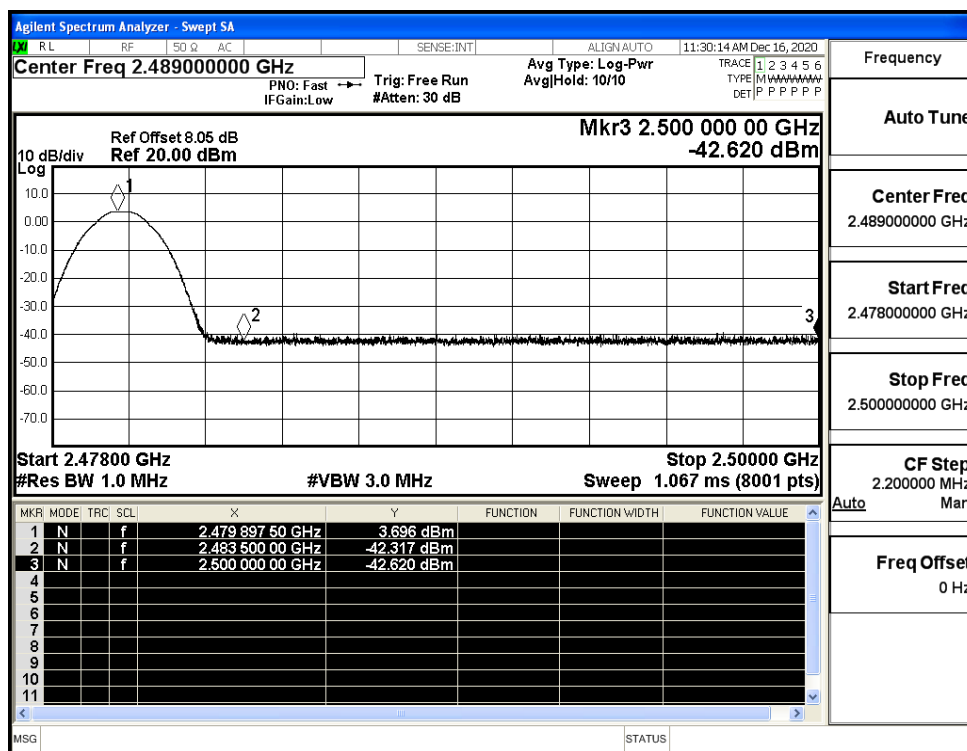
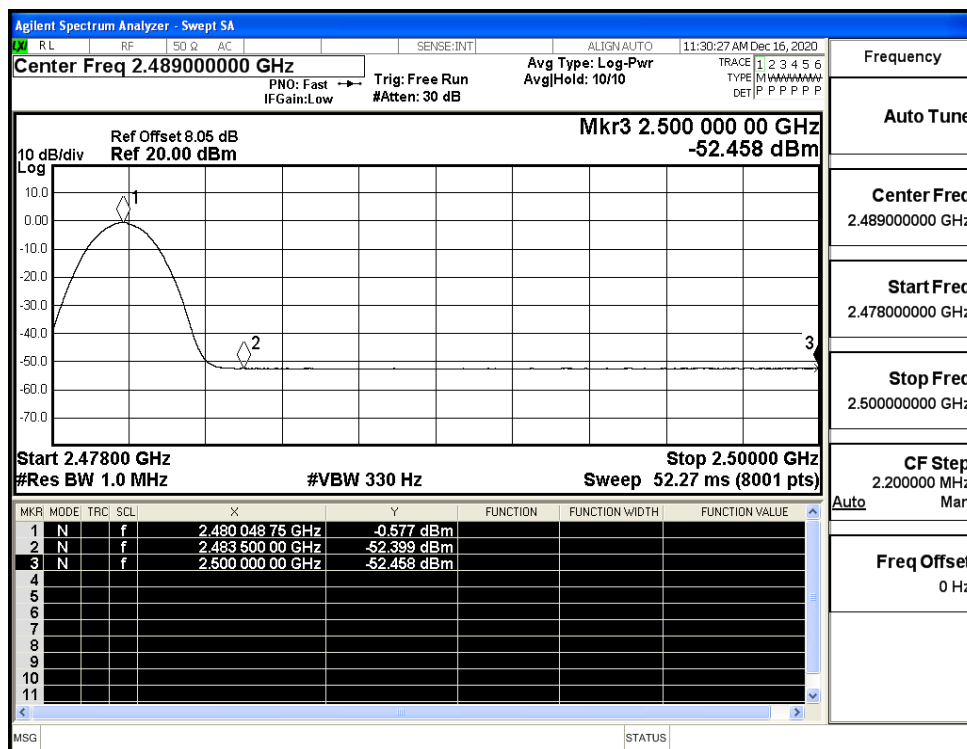
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



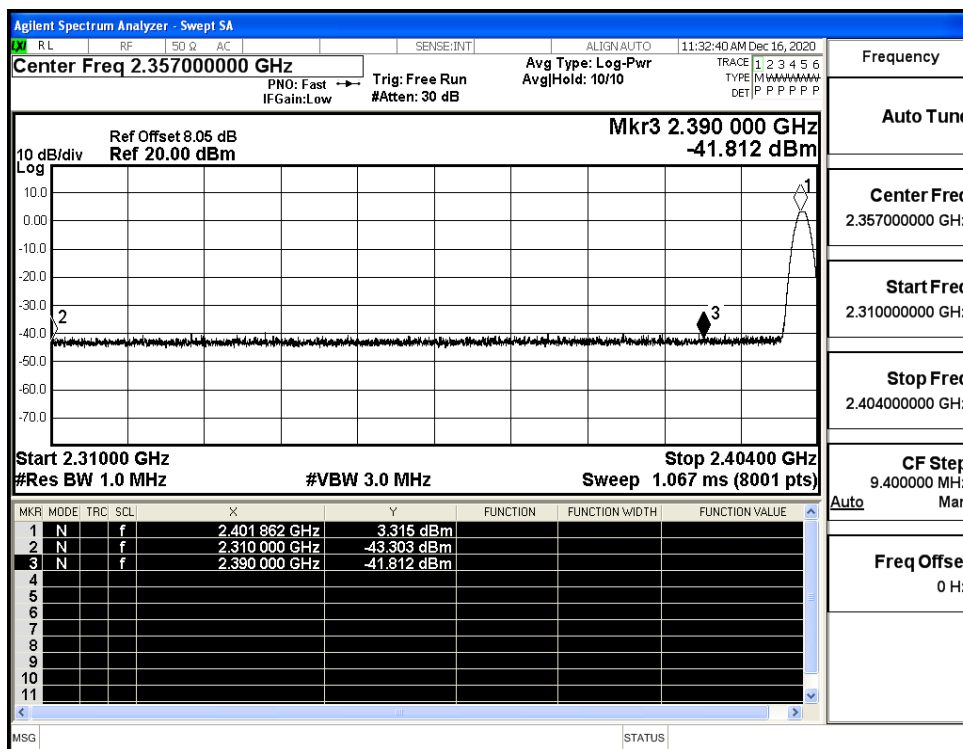
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



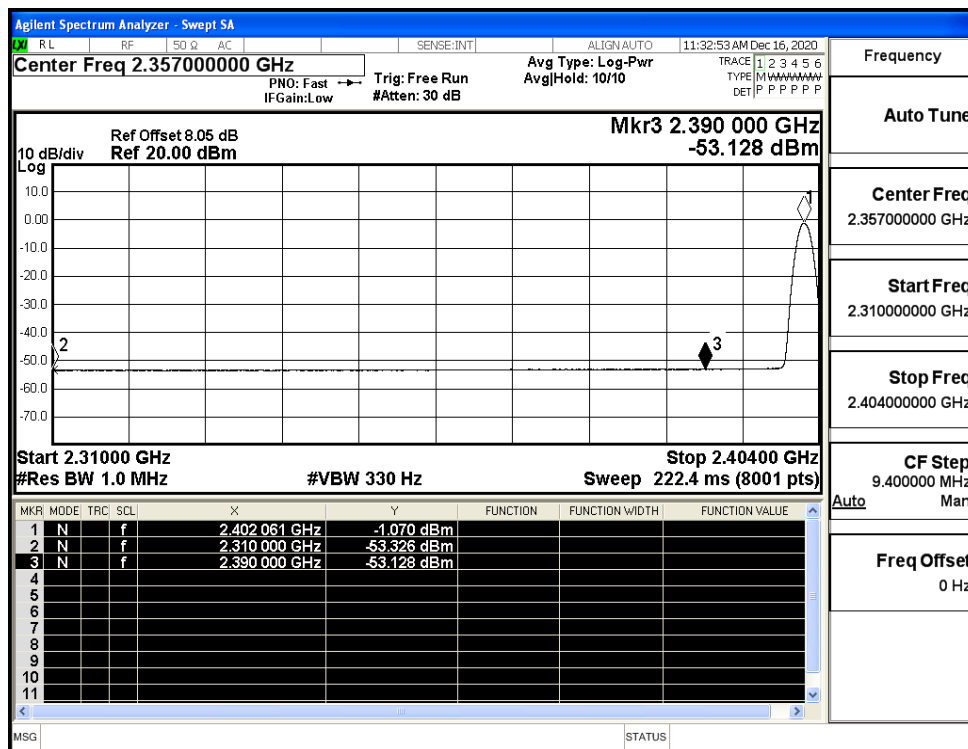
Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)

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)

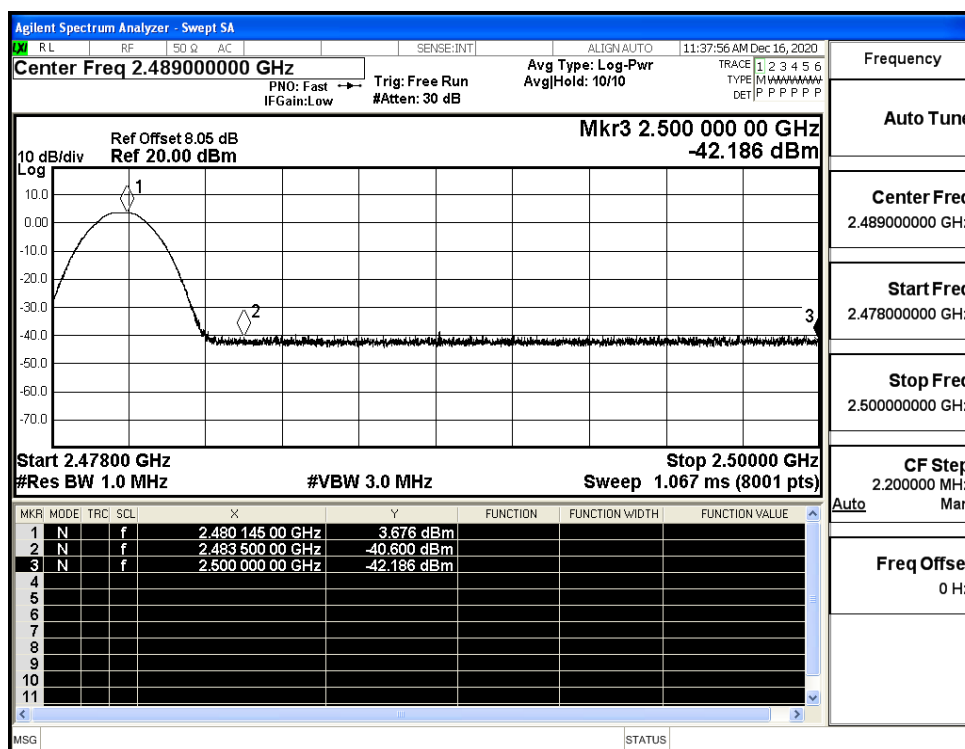
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

