

Appendix A

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

Product Name: Tablet
Trade Mark: LAVA & XOLO
Test Model: T81

Environmental Conditions

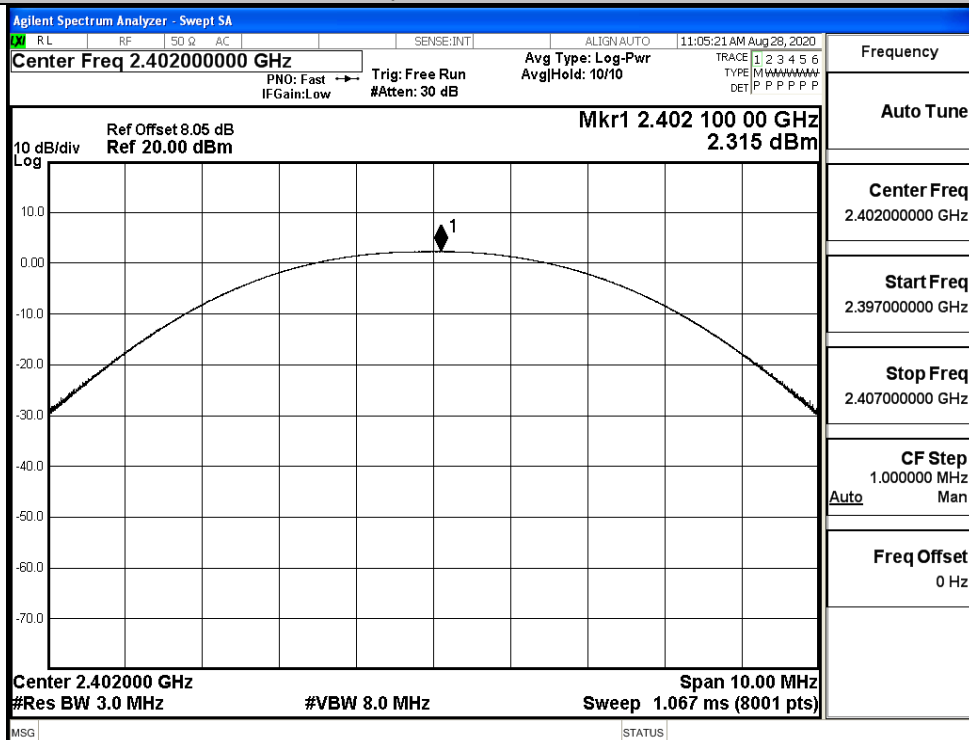
Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Li Huan

A.1 Maximum Conducted Peak Output Power

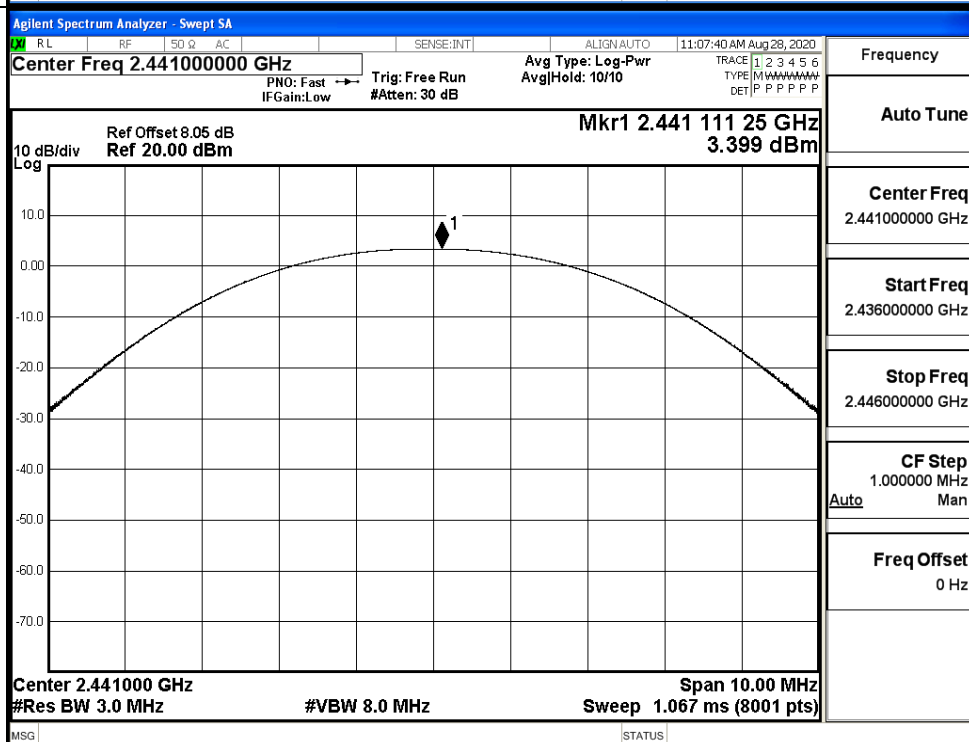
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2.315	21	PASS
	MCH	3.399	21	PASS
	HCH	2.242	21	PASS
$\pi/4$ DQPSK	LCH	1.583	21	PASS
	MCH	2.653	21	PASS
	HCH	1.503	21	PASS
8DPSK	LCH	1.690	21	PASS
	MCH	2.770	21	PASS
	HCH	1.694	21	PASS

Test Graphs

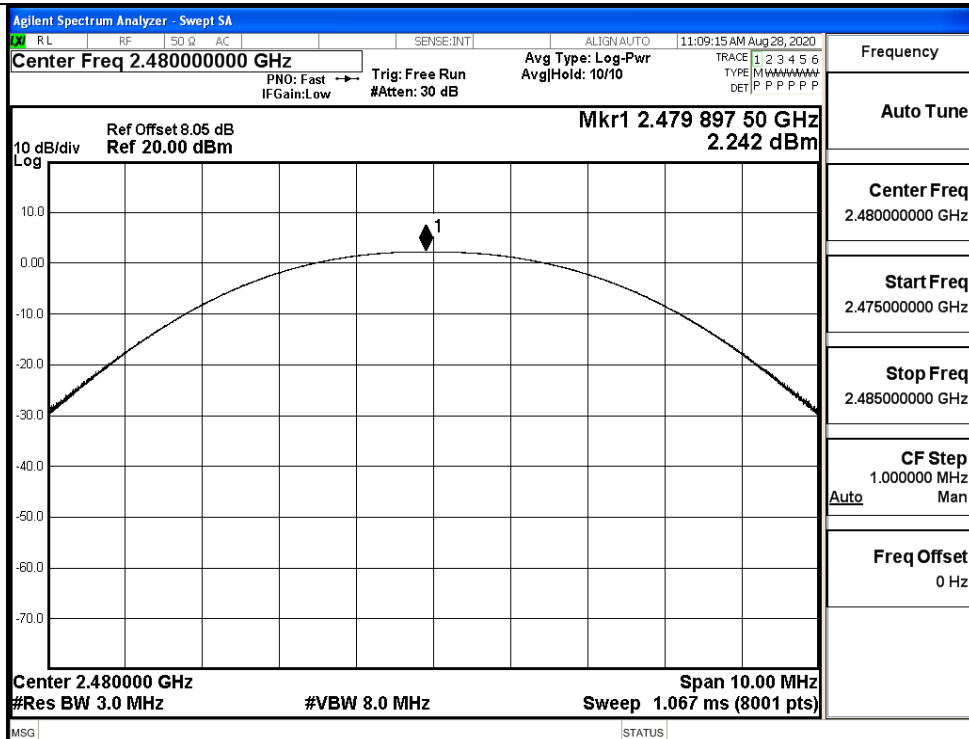
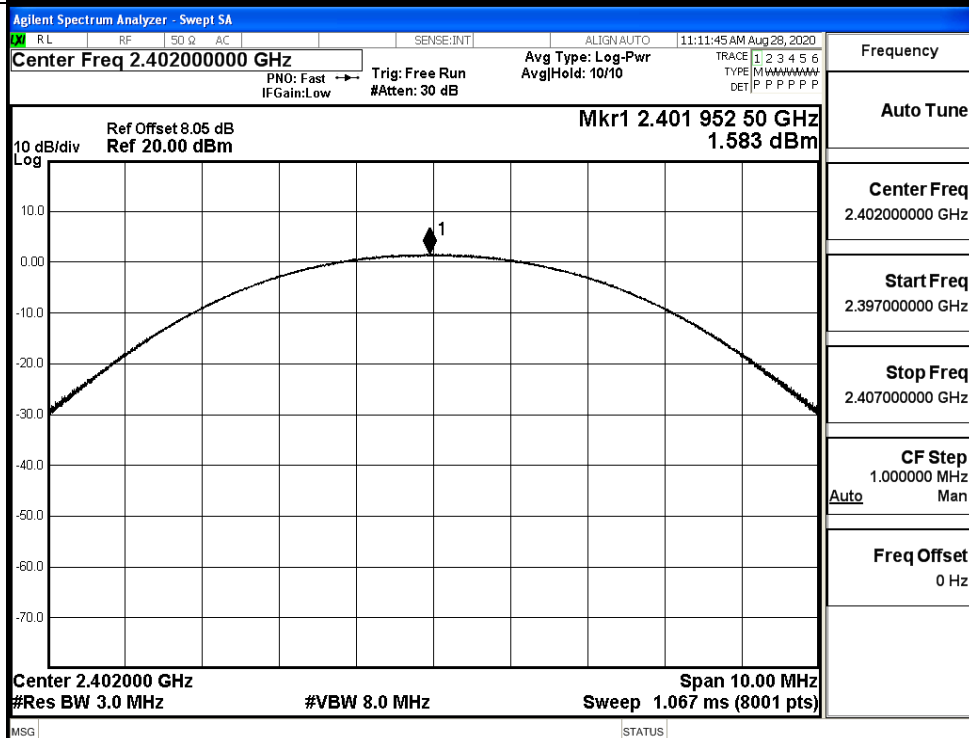
GFSK/LCH

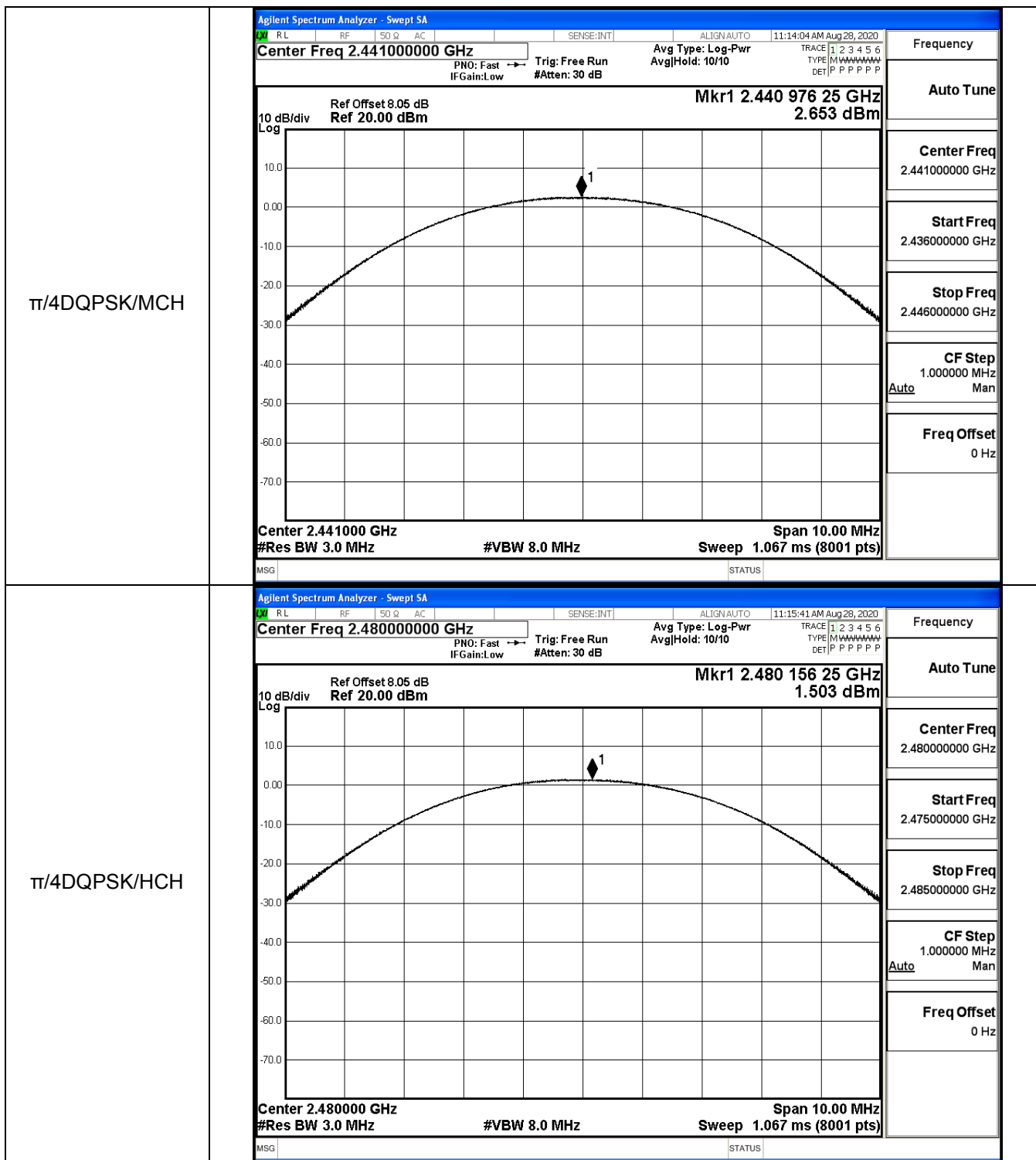


GFSK/MCH

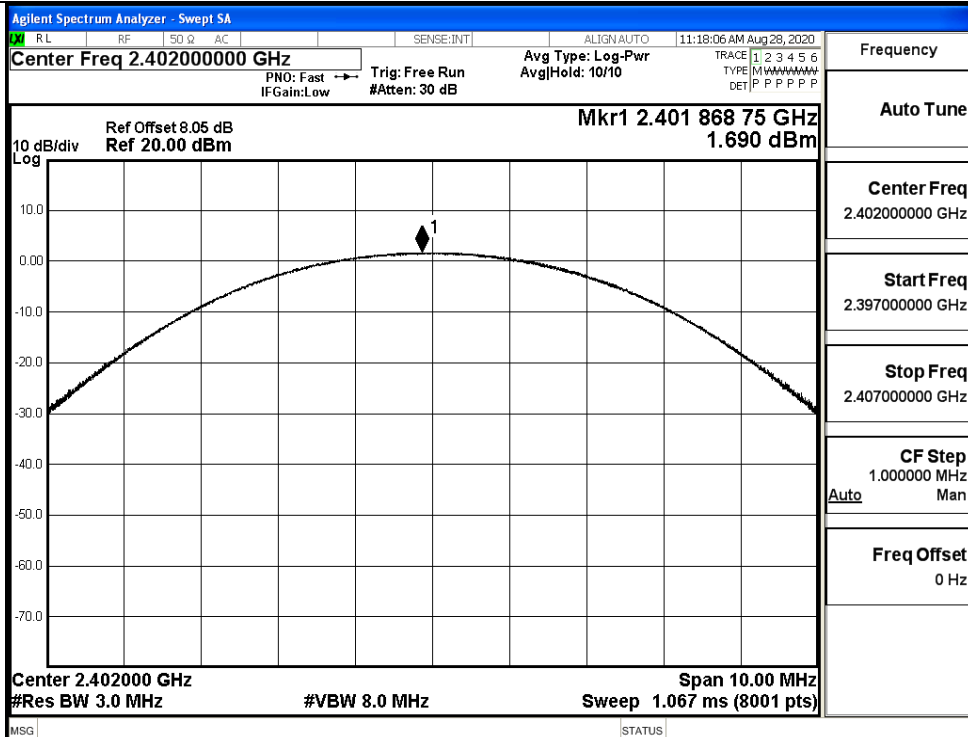


GFSK/HCH

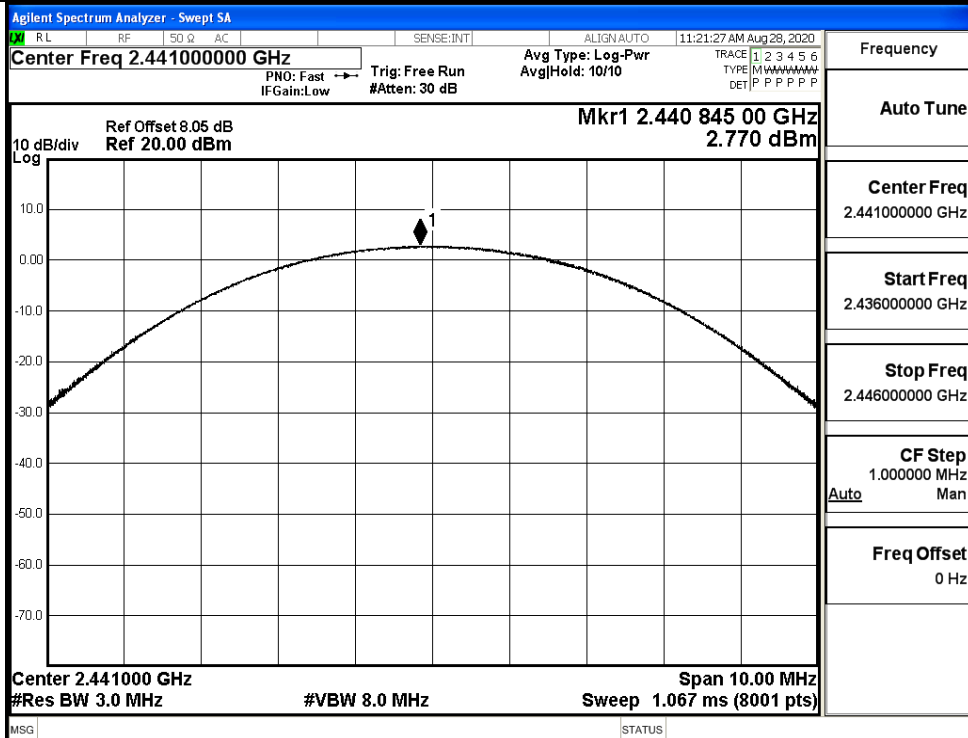
 $\pi/4$ DQPSK/LCH



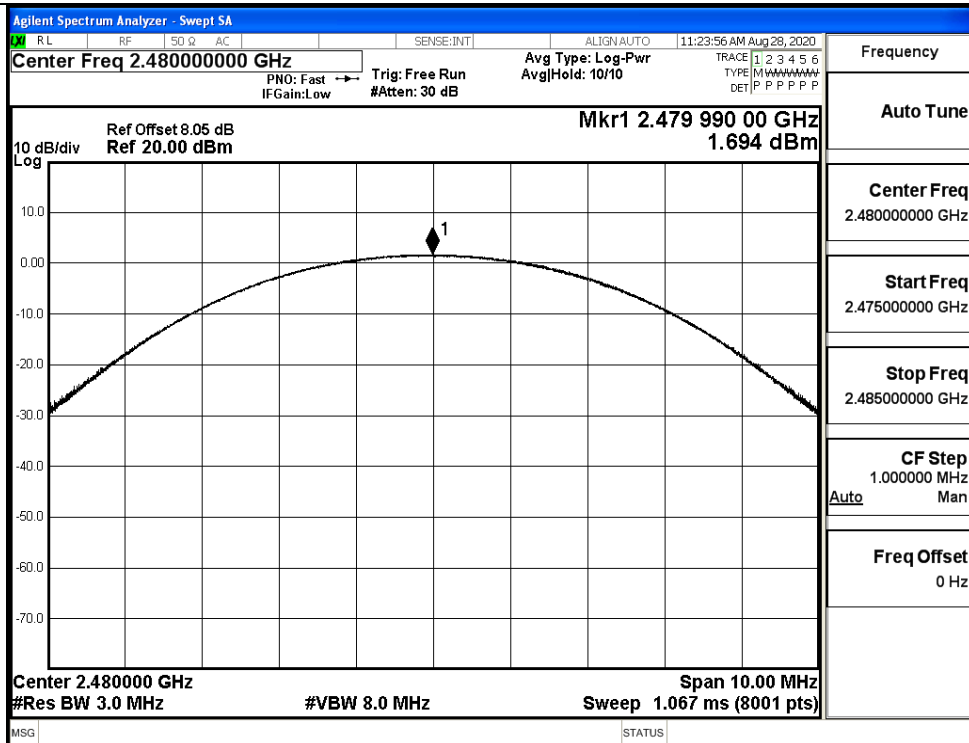
8DPSK/LCH



8DPSK/MCH



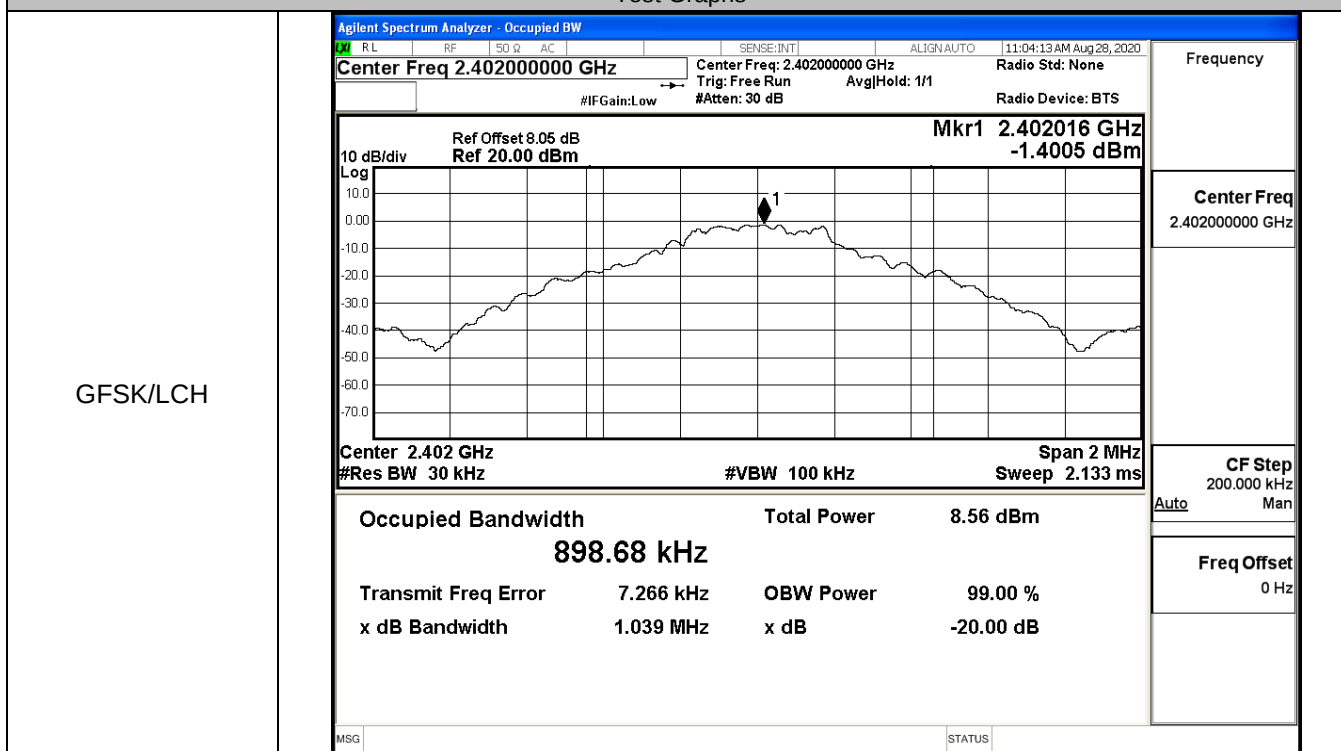
8DPSK/HCH



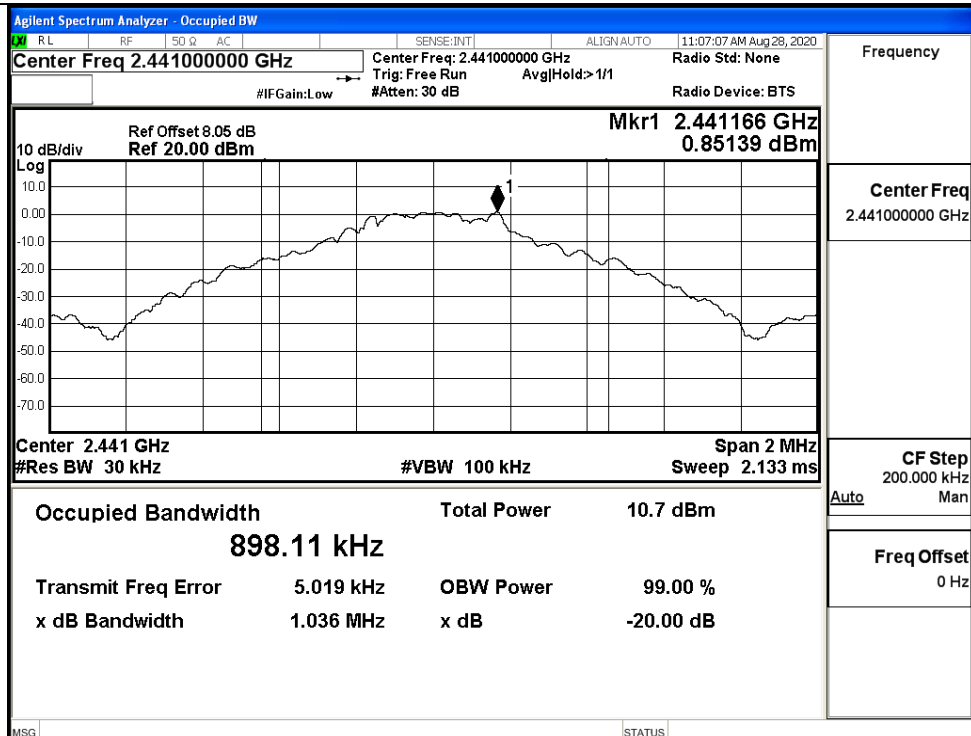
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.039	Not Specified	PASS
	MCH	1.036	Not Specified	PASS
	HCH	1.031	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.288	Not Specified	PASS
	MCH	1.287	Not Specified	PASS
	HCH	1.288	Not Specified	PASS
8DPSK	LCH	1.290	Not Specified	PASS
	MCH	1.293	Not Specified	PASS
	HCH	1.294	Not Specified	PASS

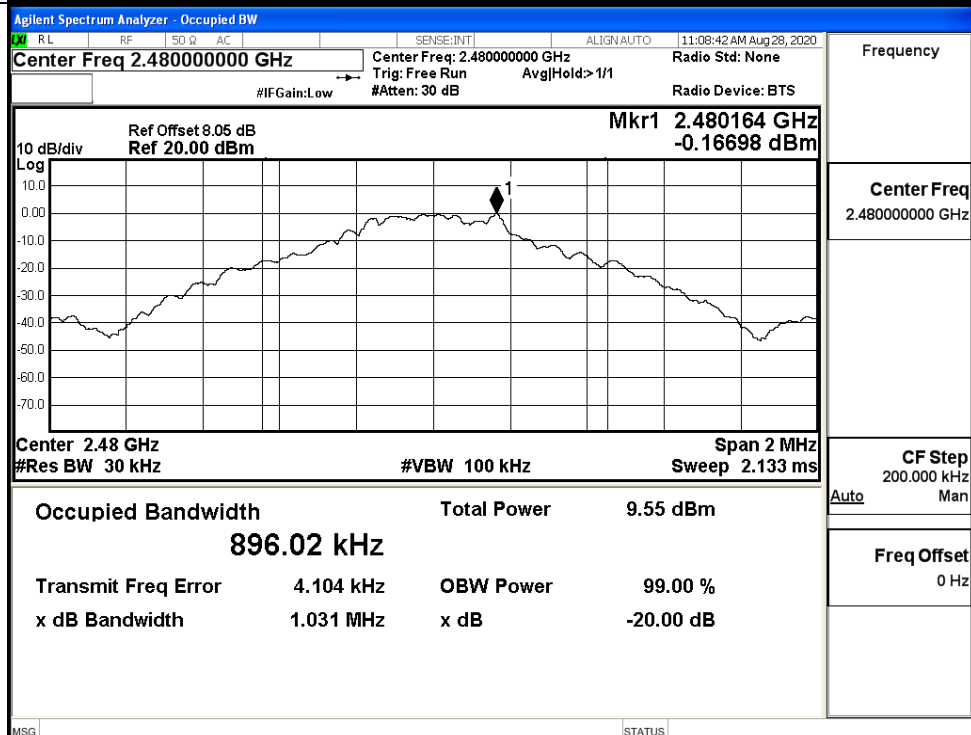
Test Graphs

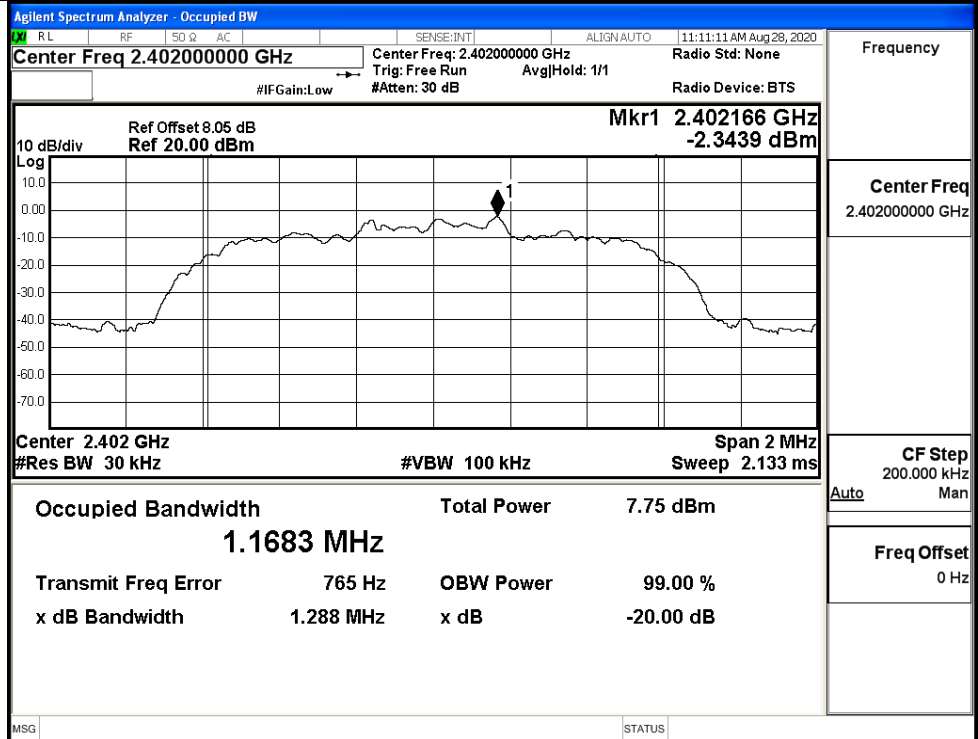
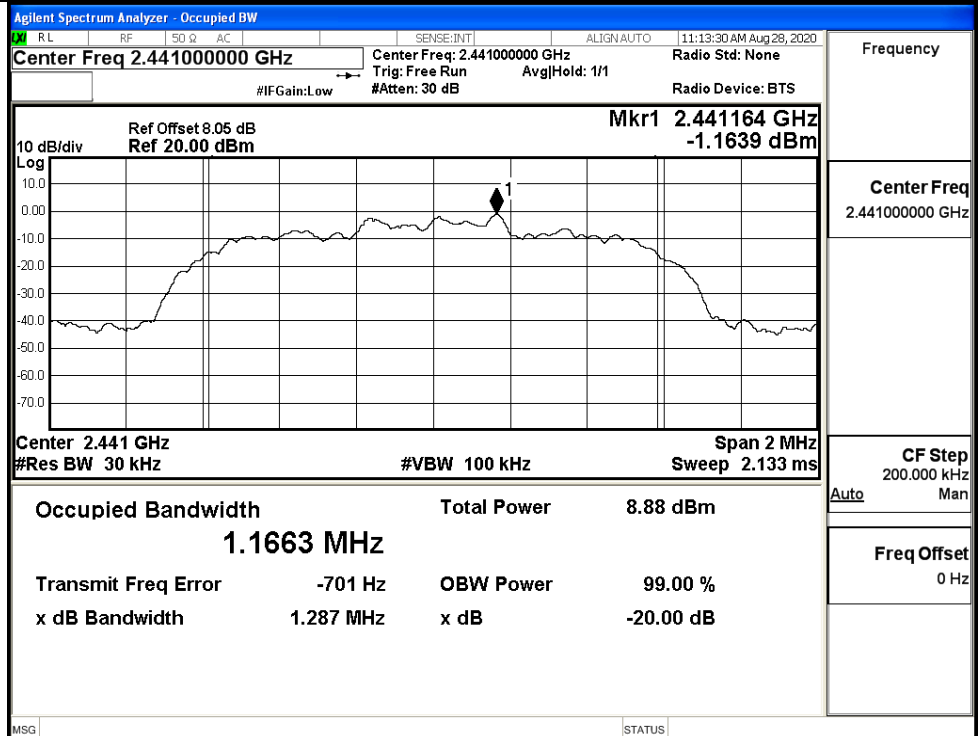


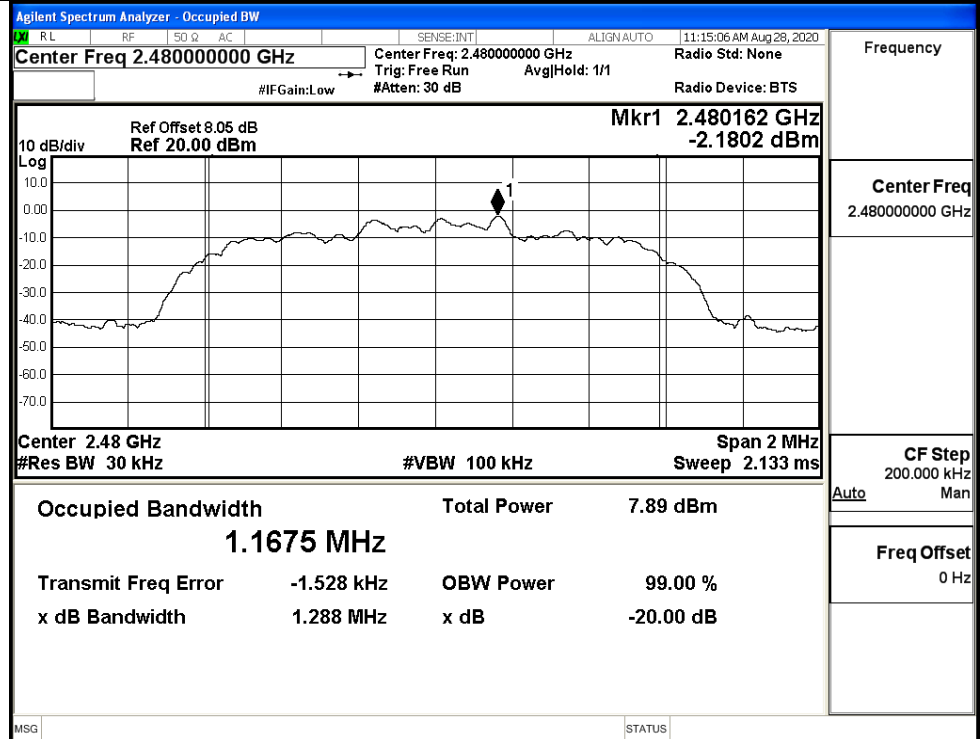
GFSK/MCH



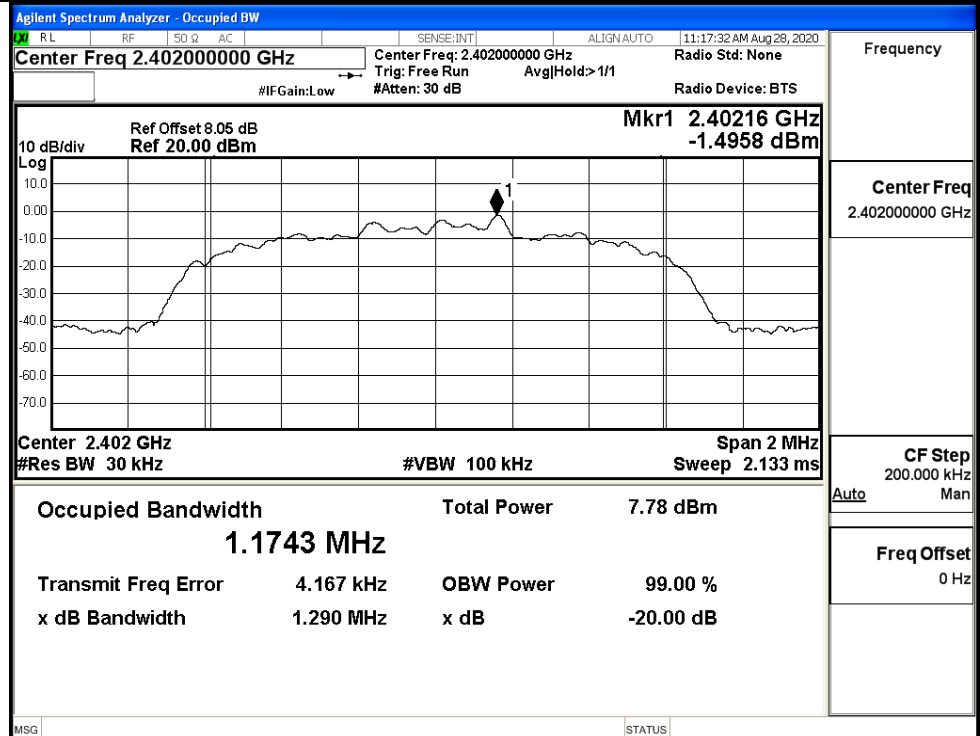
GFSK/HCH



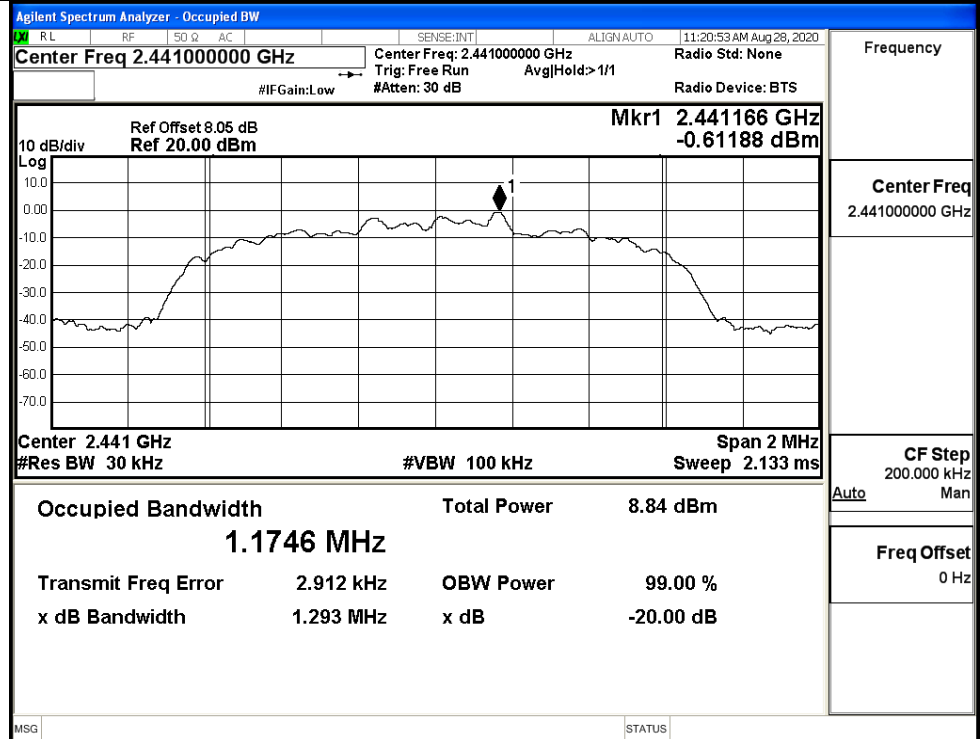
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

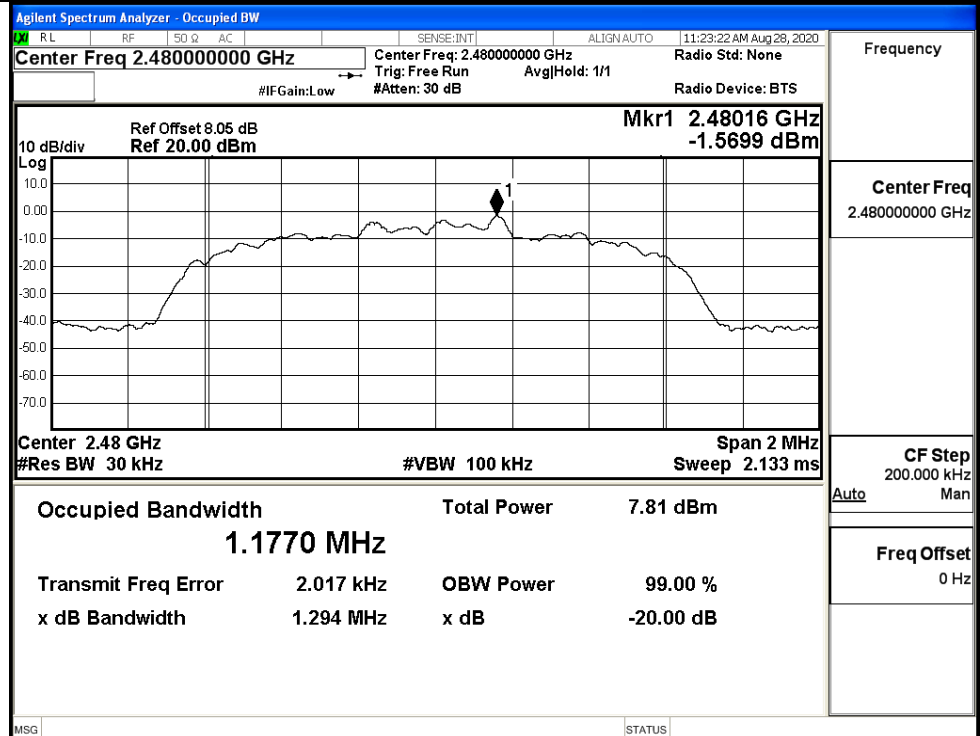
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

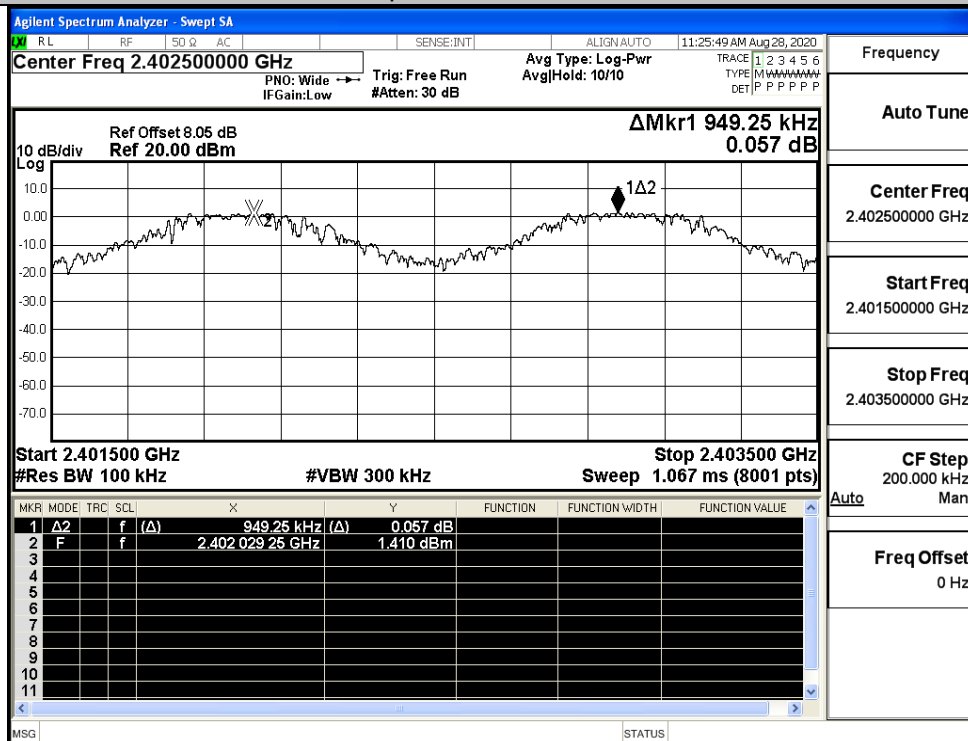


A.3 Carrier Frequency Separation

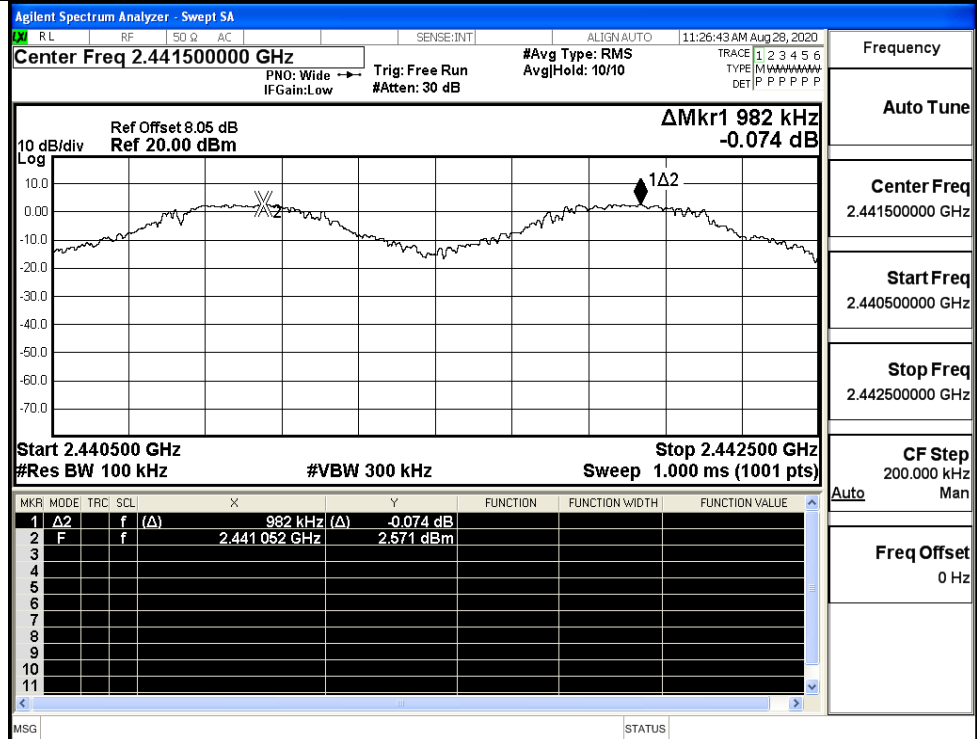
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.949	0.693	PASS
	MCH	0.982	0.693	PASS
	HCH	1.144	0.693	PASS
$\pi/4$ DQPSK	LCH	1.168	0.859	PASS
	MCH	1.030	0.859	PASS
	HCH	0.956	0.859	PASS
8DPSK	LCH	0.908	0.863	PASS
	MCH	1.066	0.863	PASS
	HCH	1.016	0.863	PASS

Test Graphs

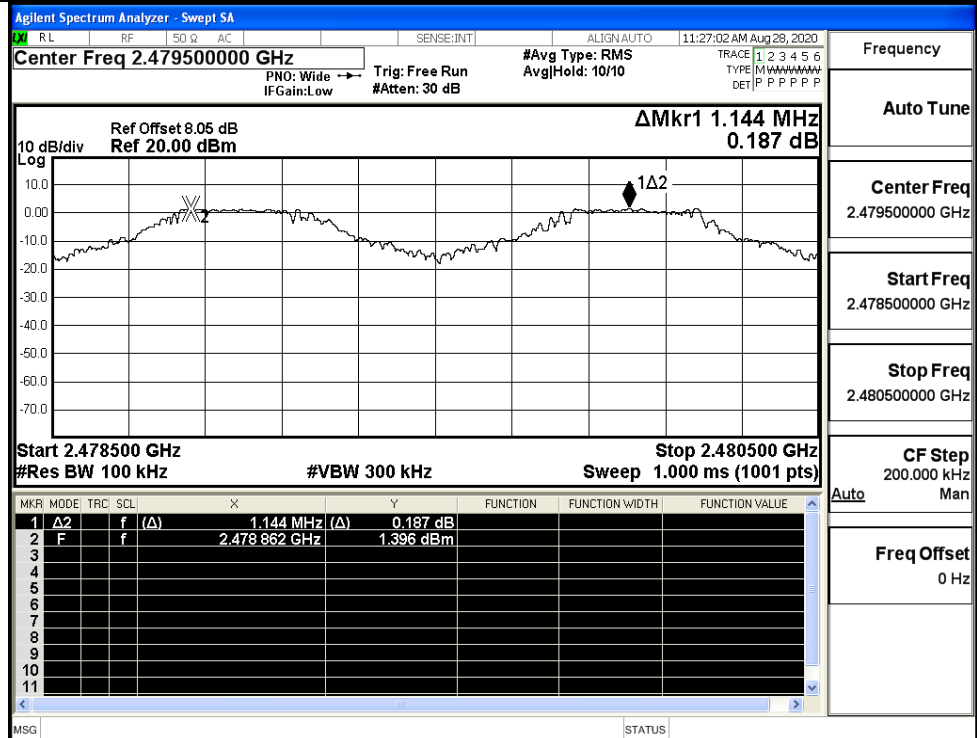
GFSK/LCH

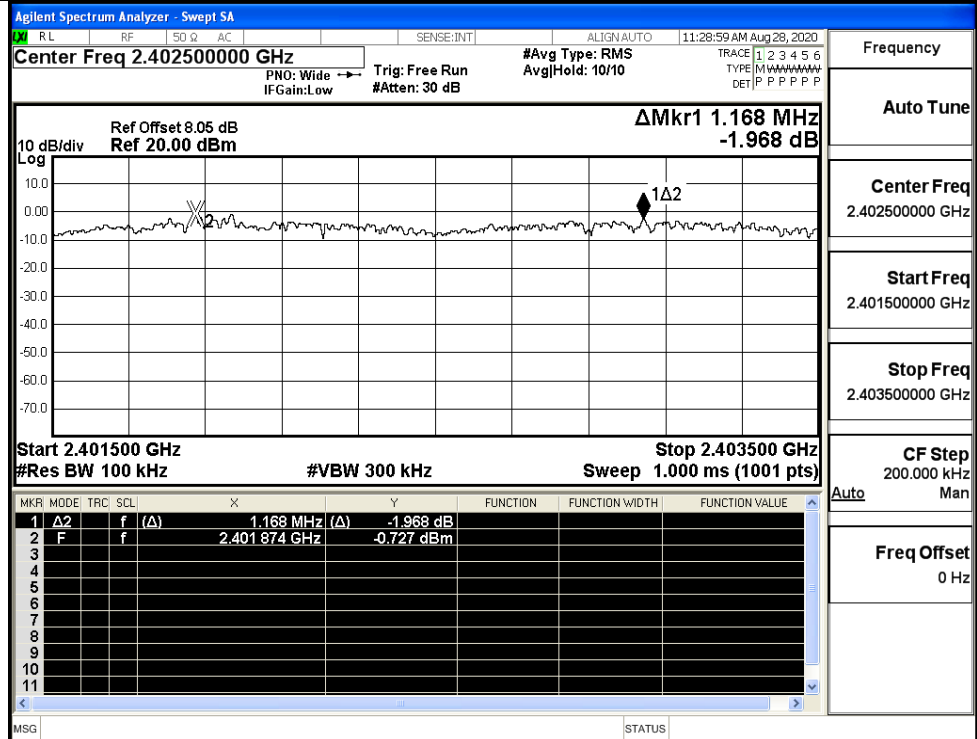
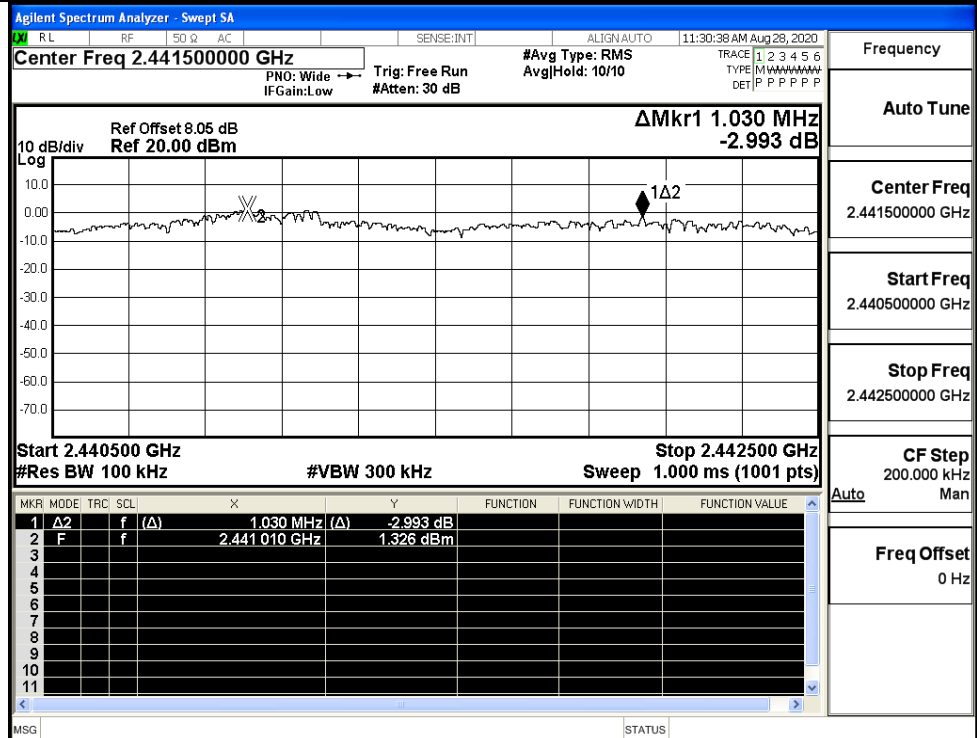


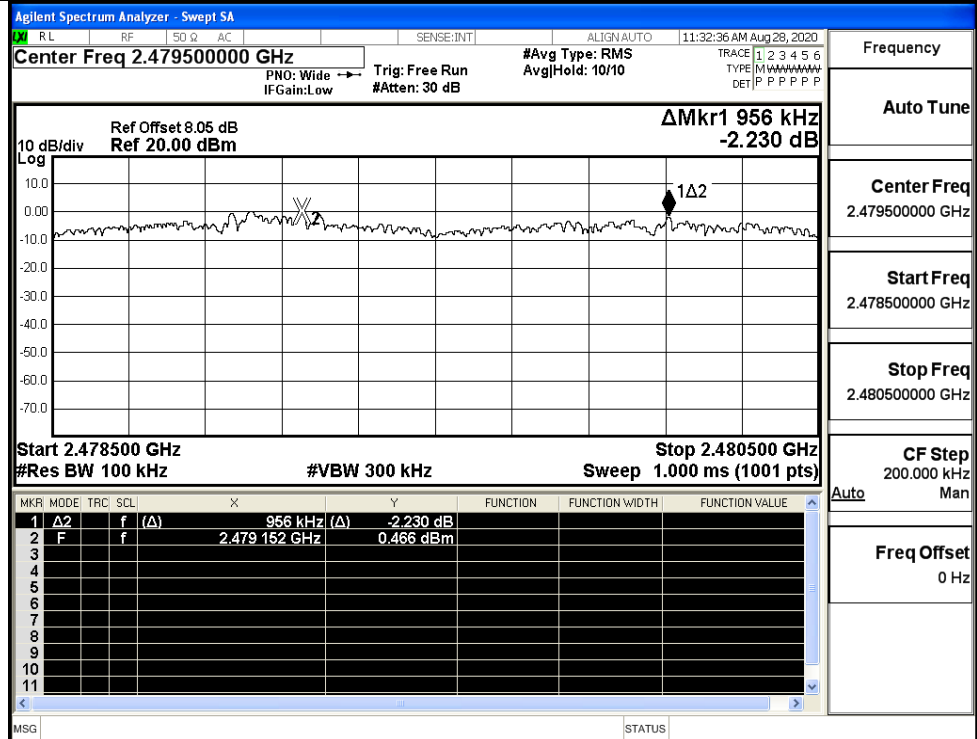
GFSK/MCH



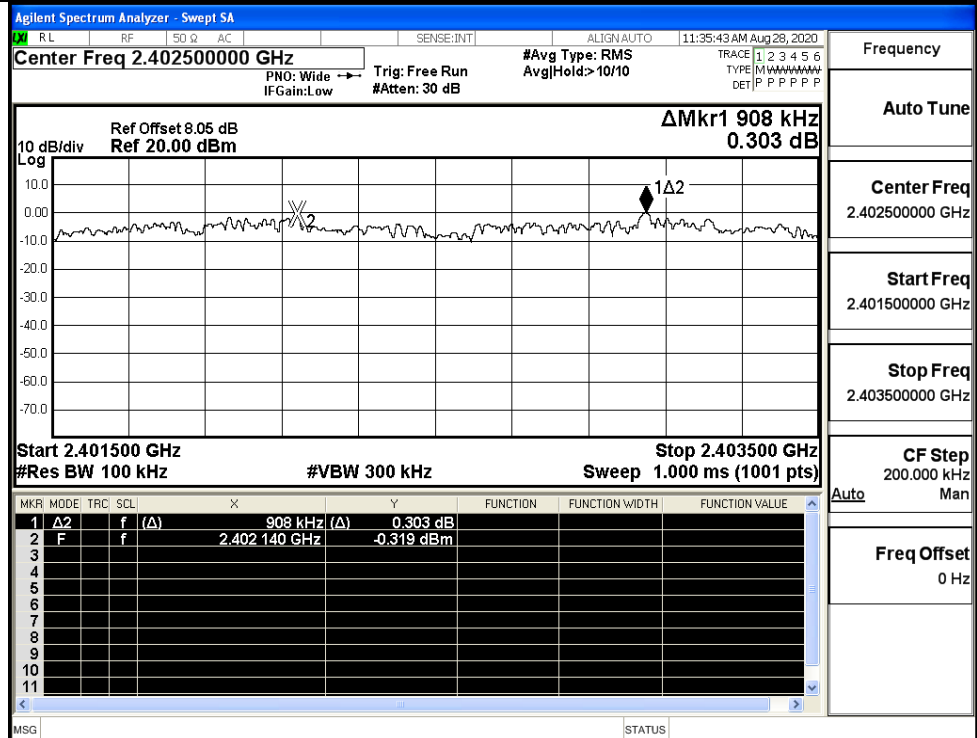
GFSK/HCH



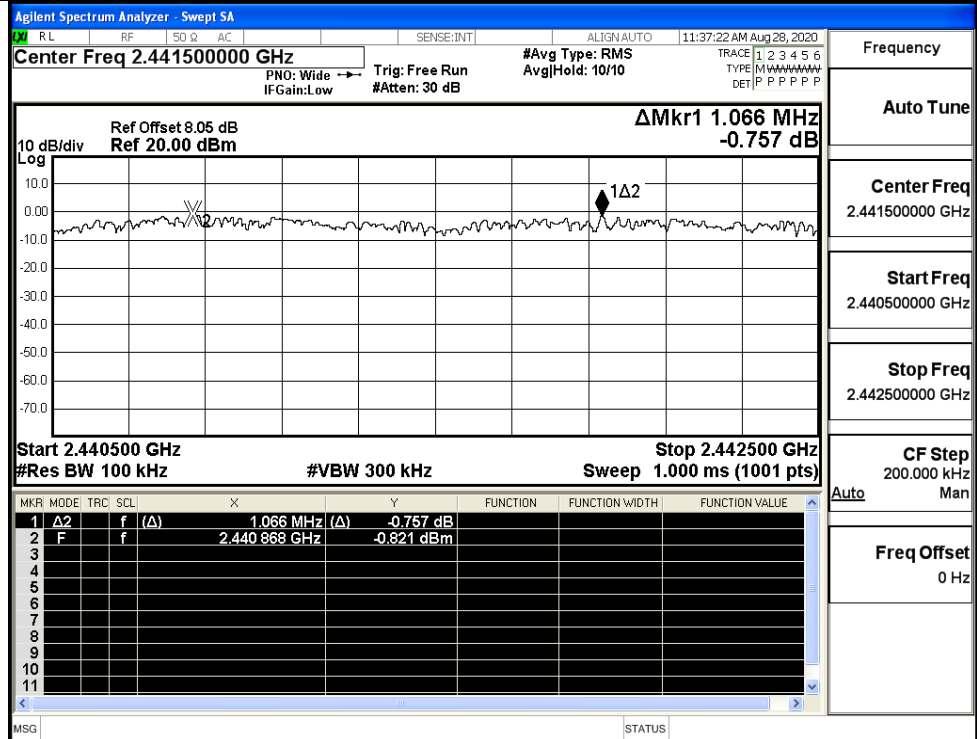
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

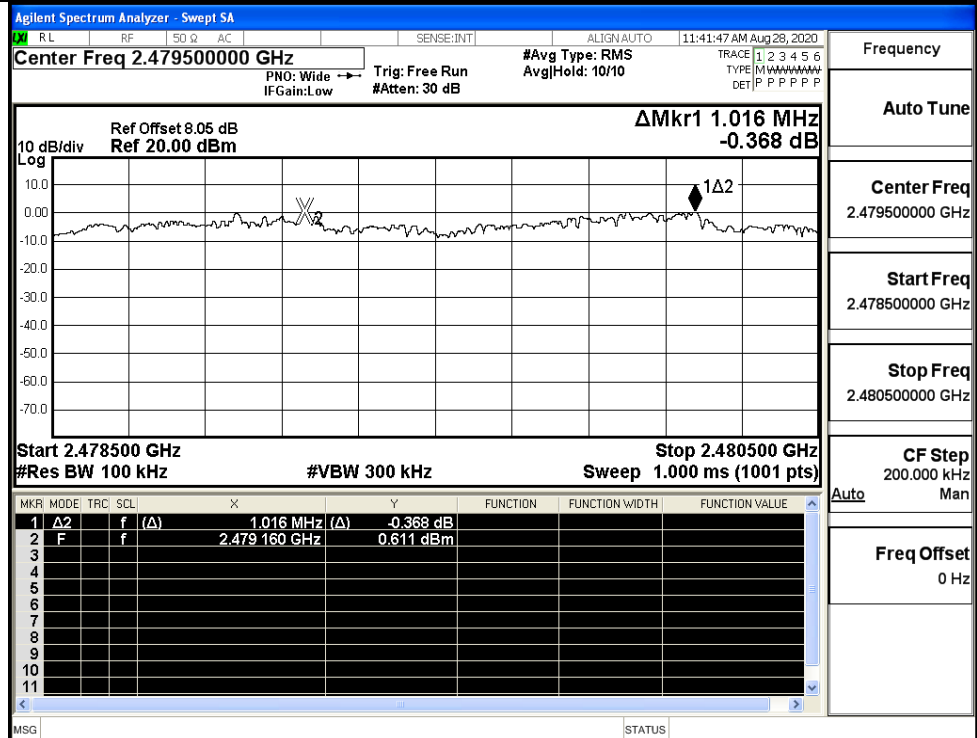
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

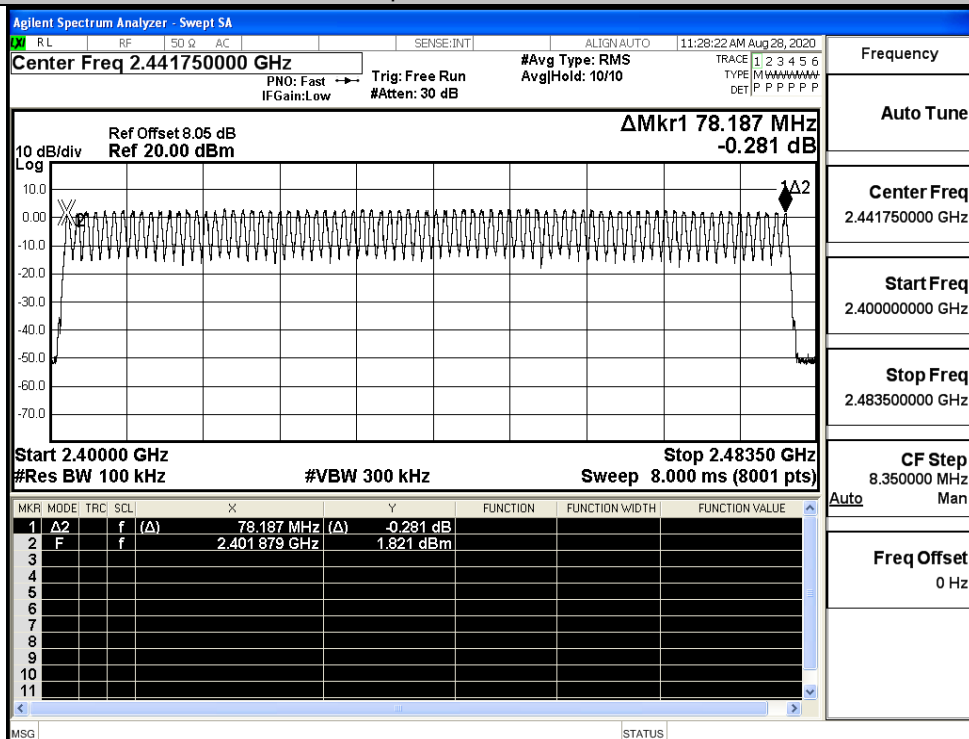


A.4 Hopping Channel Number

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

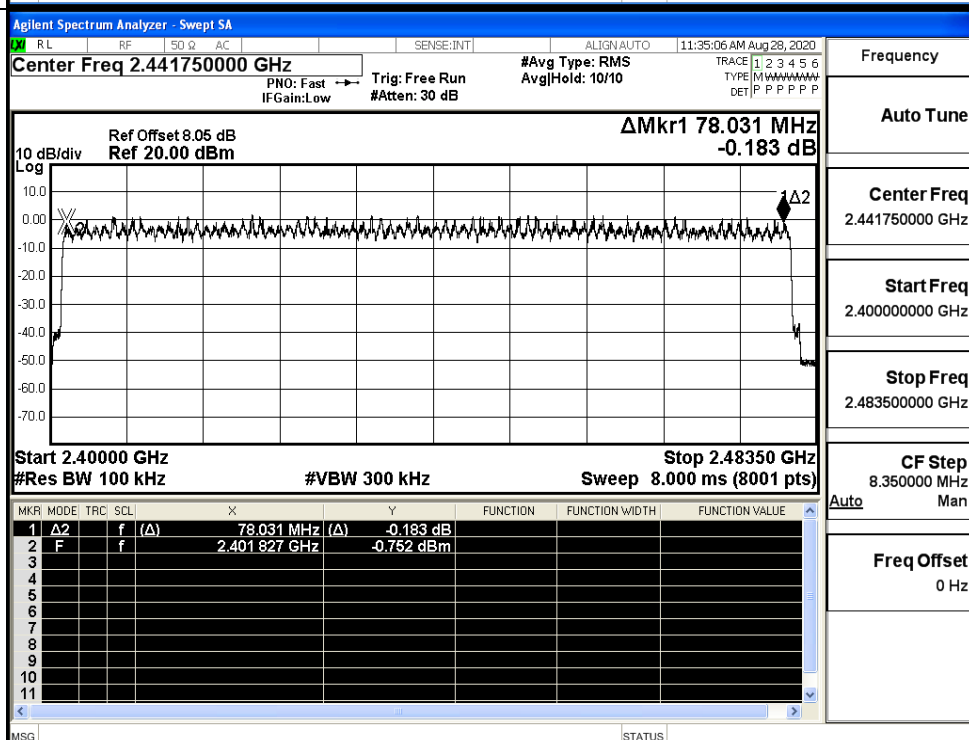
Test Graphs

GFSK/Hop



Frequency

Auto Tune

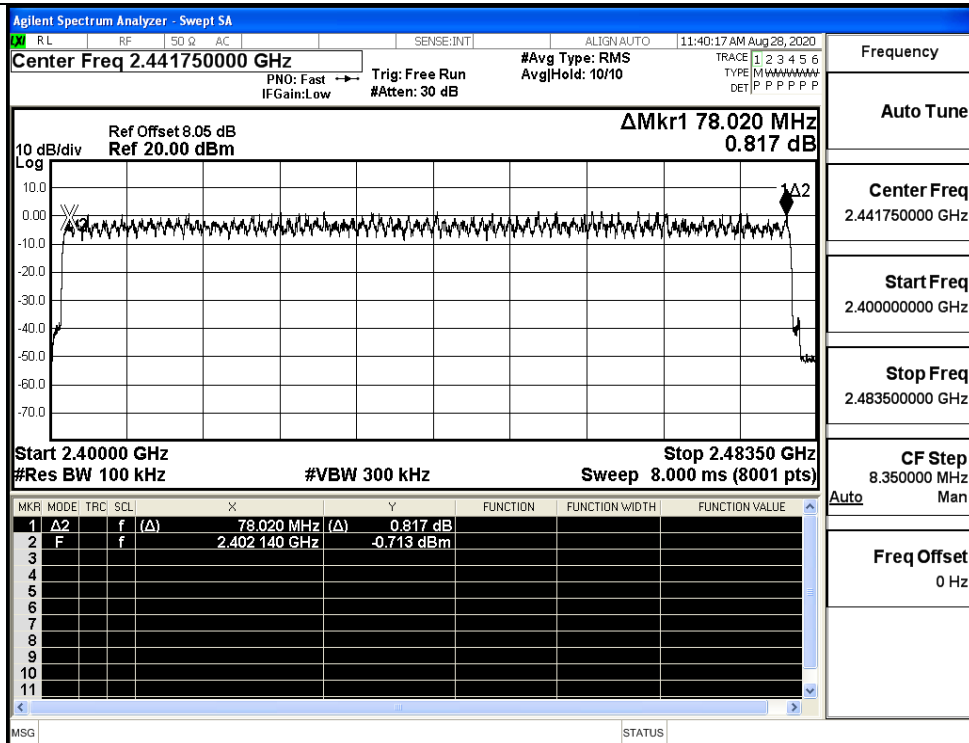
Center Freq
2.441750000 GHzStart Freq
2.400000000 GHzStop Freq
2.483500000 GHzCF Step
8.350000 MHz
ManFreq Offset
0 Hz $\pi/4$ DQPSK/Hop

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

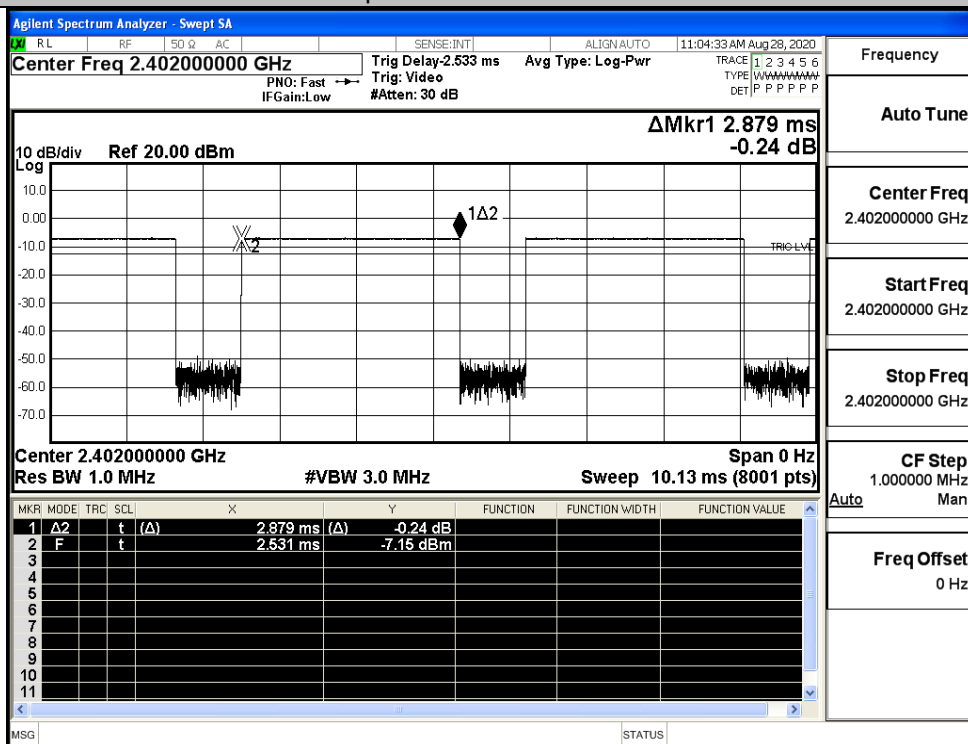


A.5 Dwell Time

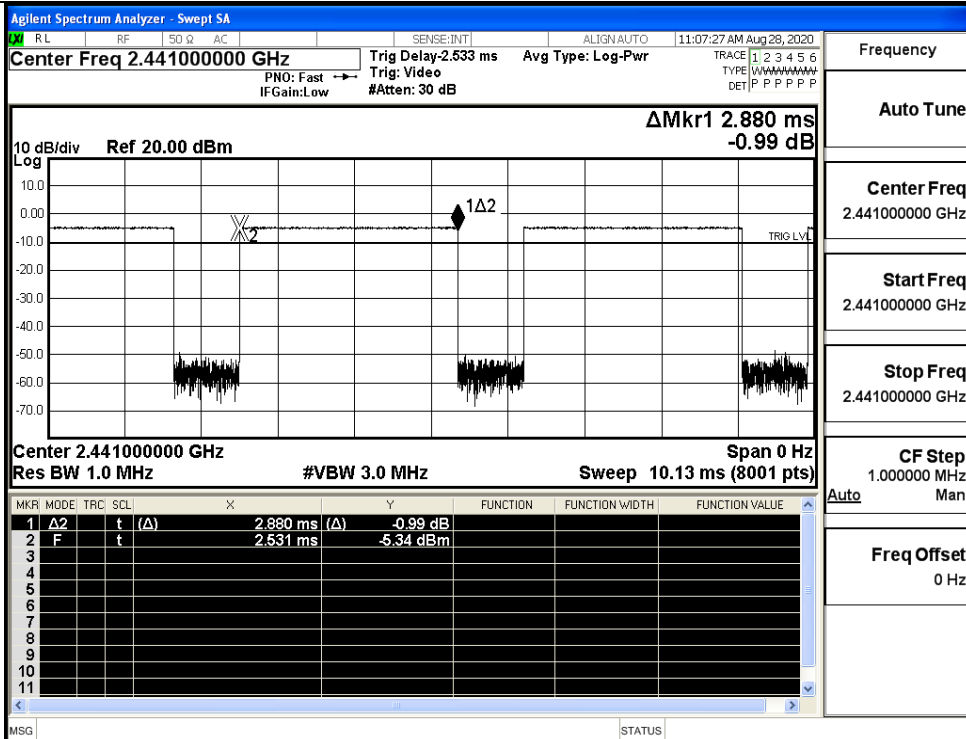
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88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

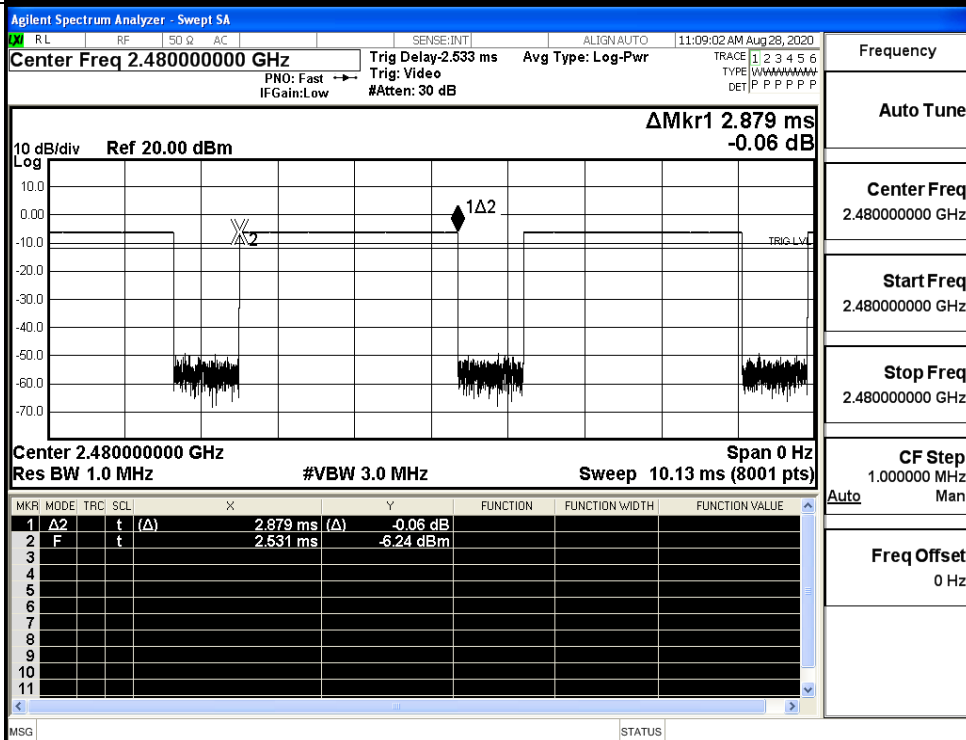
GFSK_DH5/LCH



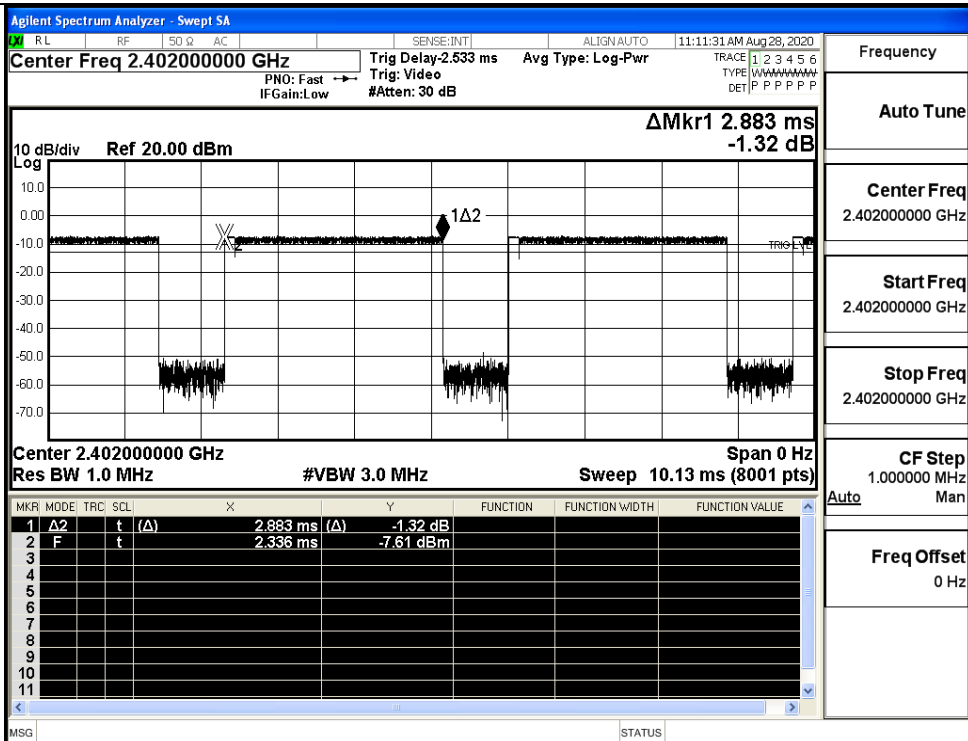
GFSK_DH5/MCH



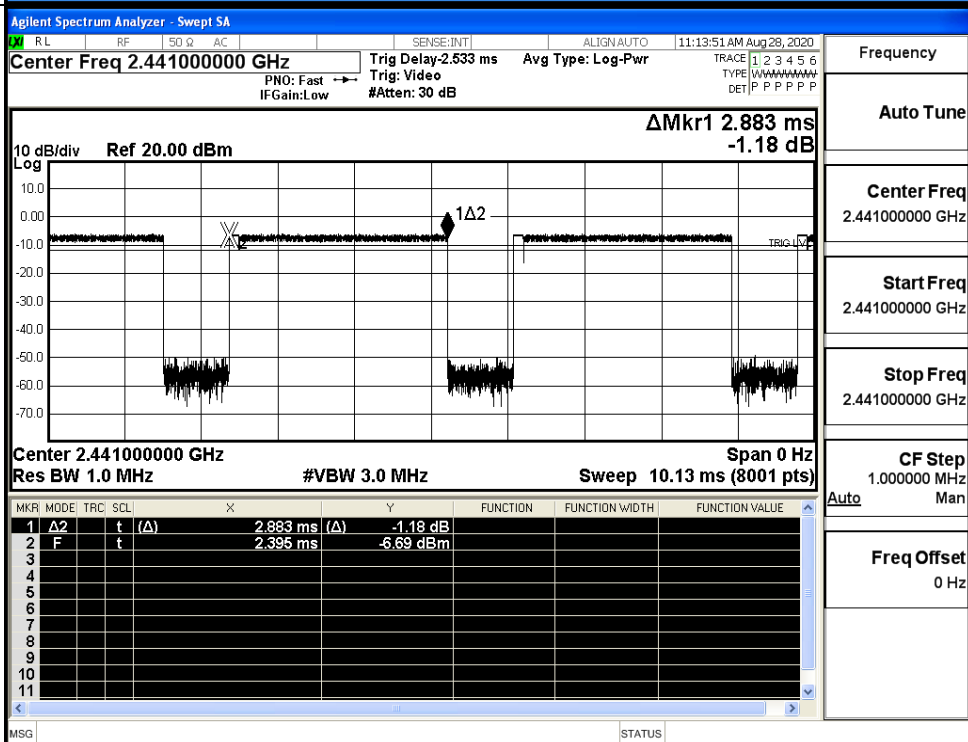
GFSK_DH5/HCH



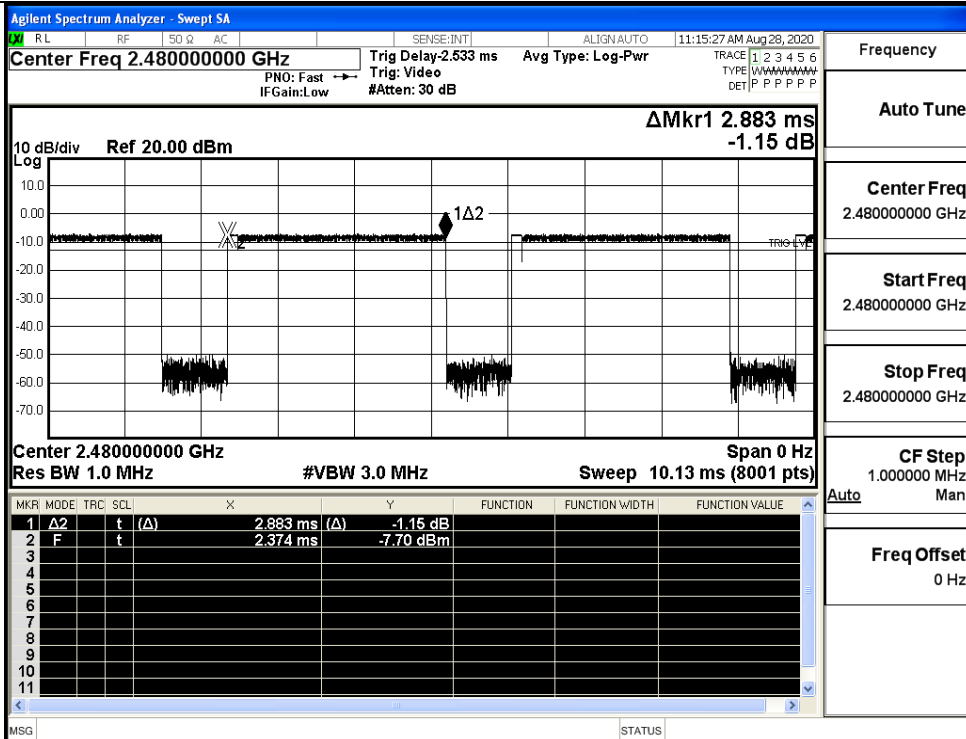
$\pi/4$ DQPSK
_2DH5/LCH



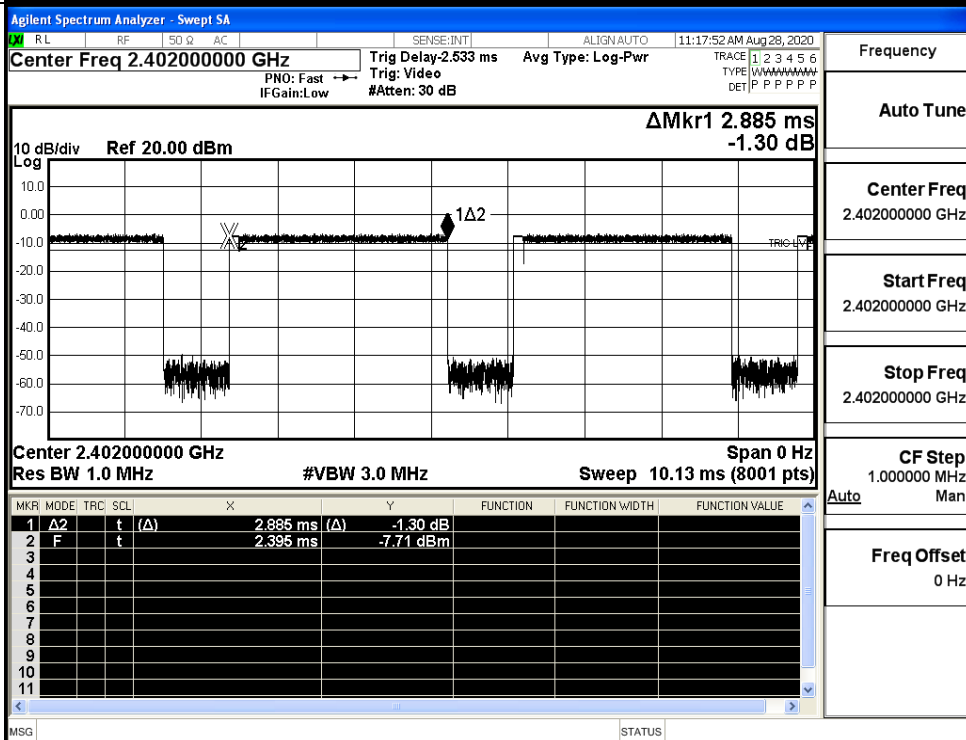
$\pi/4$ DQPSK
_2DH5/MCH



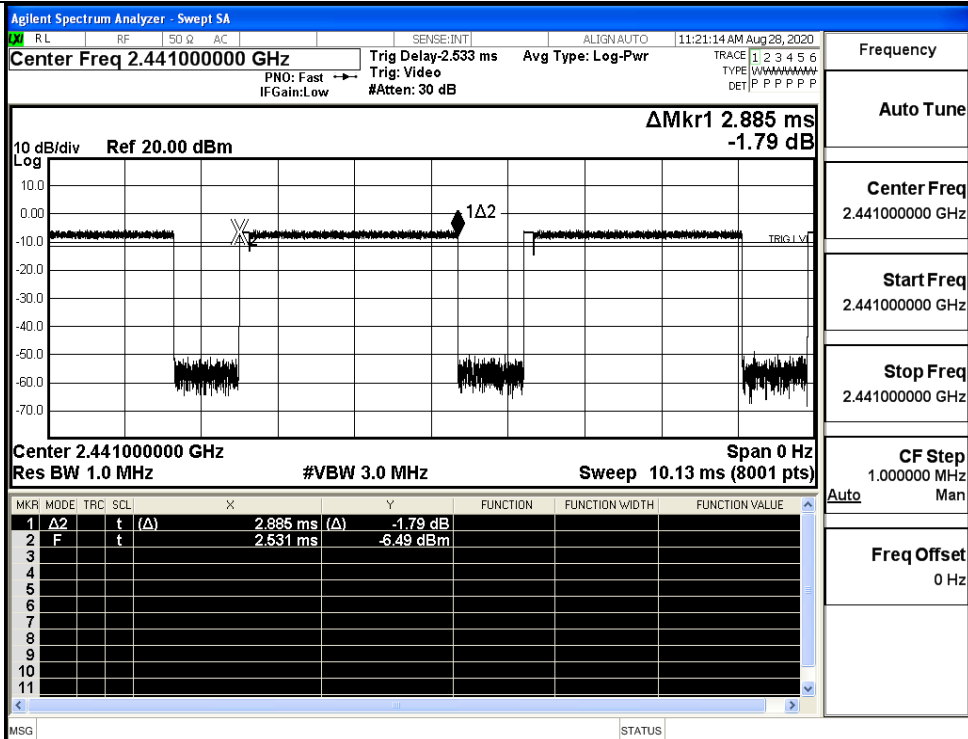
$\pi/4$ DQPSK
_2DH5/HCH



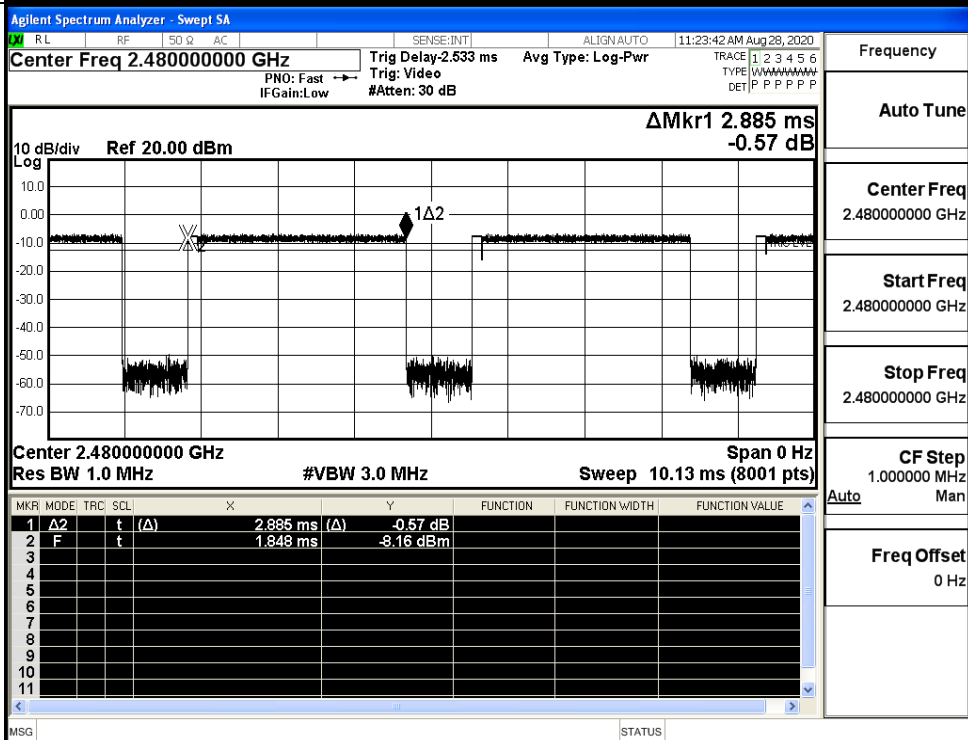
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



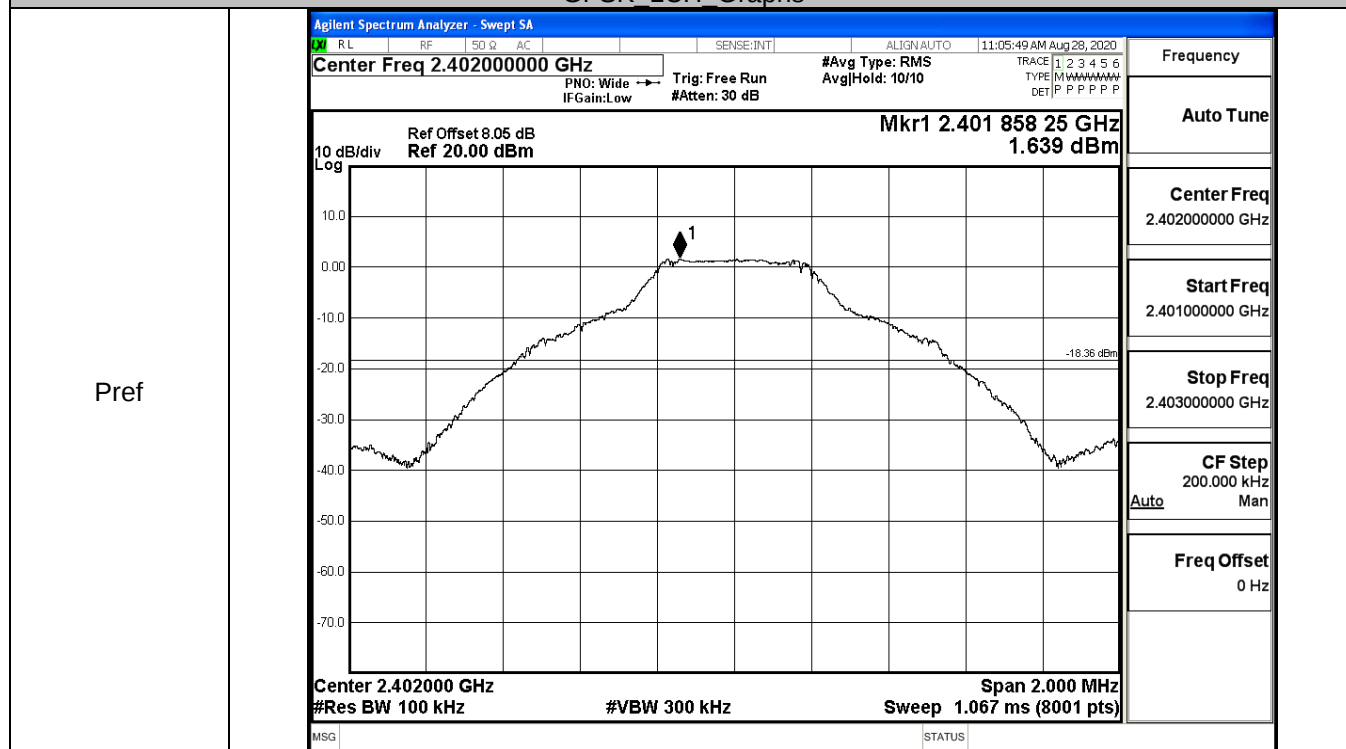
8DPSK_3DH5/HCH



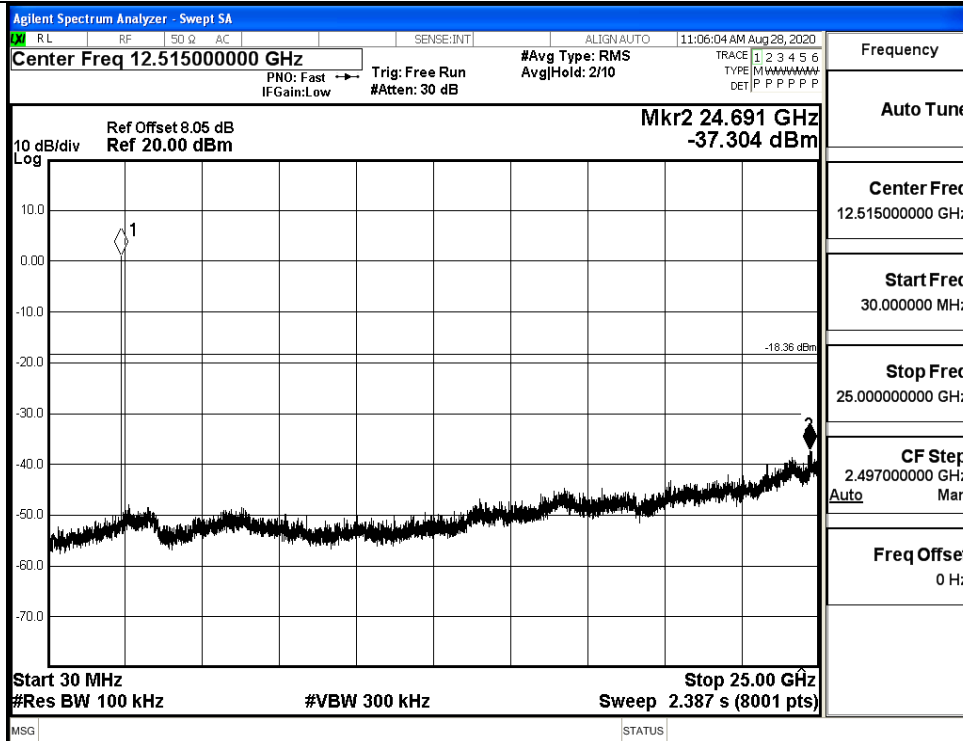
A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.639	-37.304	-18.361	PASS
	MCH	2.626	-36.900	-17.374	PASS
	HCH	1.93	-37.967	-18.070	PASS
$\pi/4$ DQPSK	LCH	-0.018	-37.716	-20.018	PASS
	MCH	1.478	-38.056	-18.522	PASS
	HCH	0.464	-38.080	-19.536	PASS
8DPSK	LCH	0.605	-37.637	-19.395	PASS
	MCH	1.655	-37.820	-18.345	PASS
	HCH	0.612	-38.436	-19.388	PASS

GFSK LCH Graphs

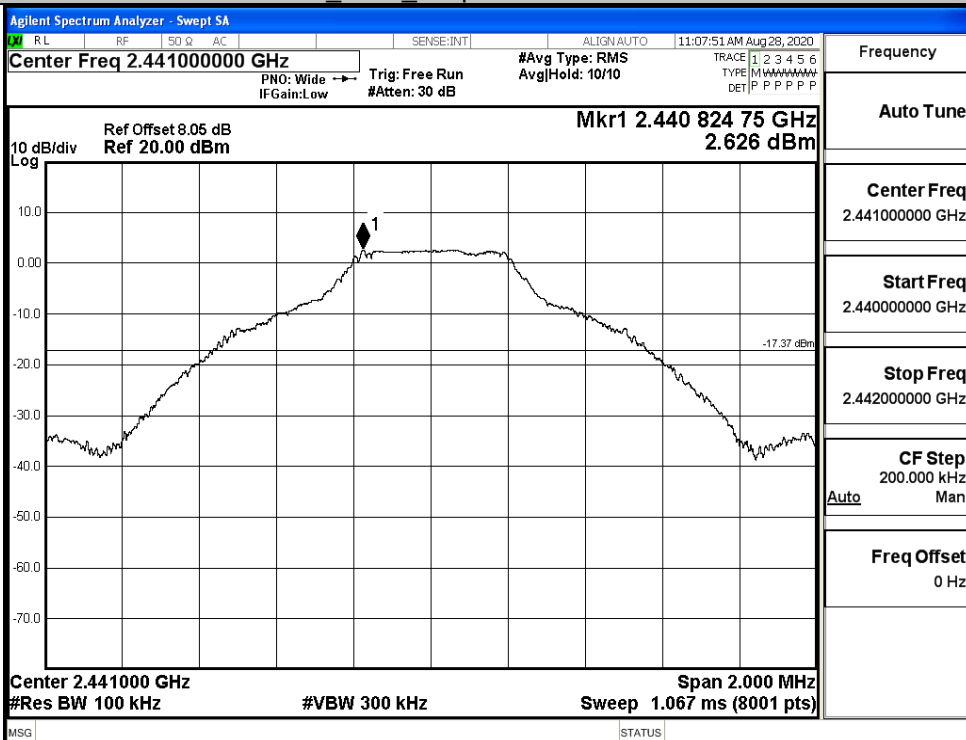


Puw

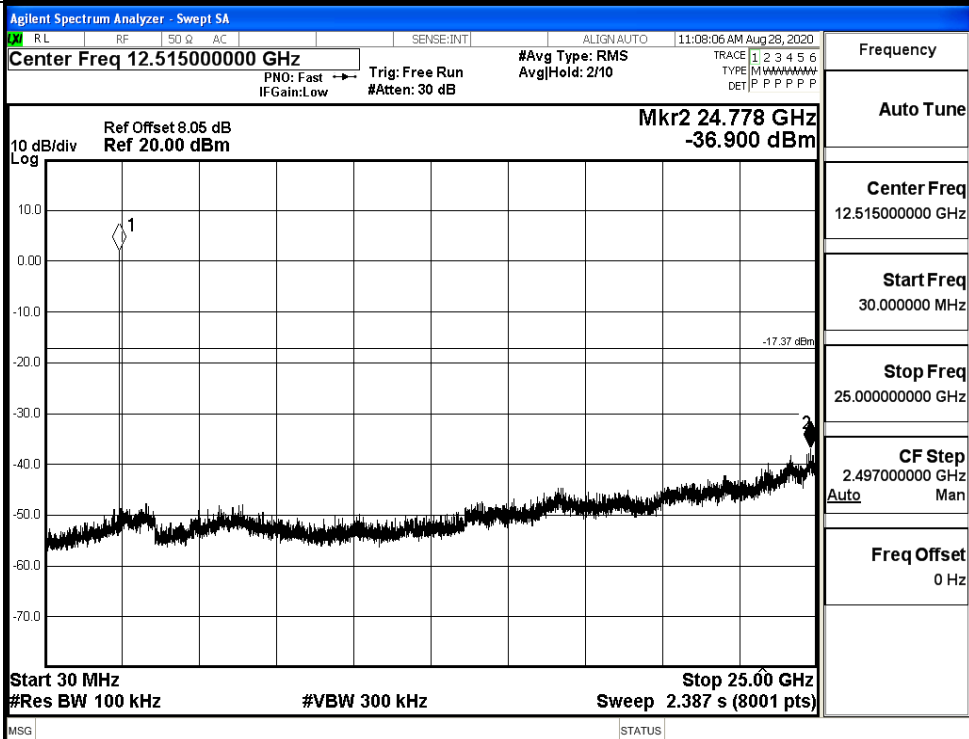


GFSK_MCH_Graphs

Pref

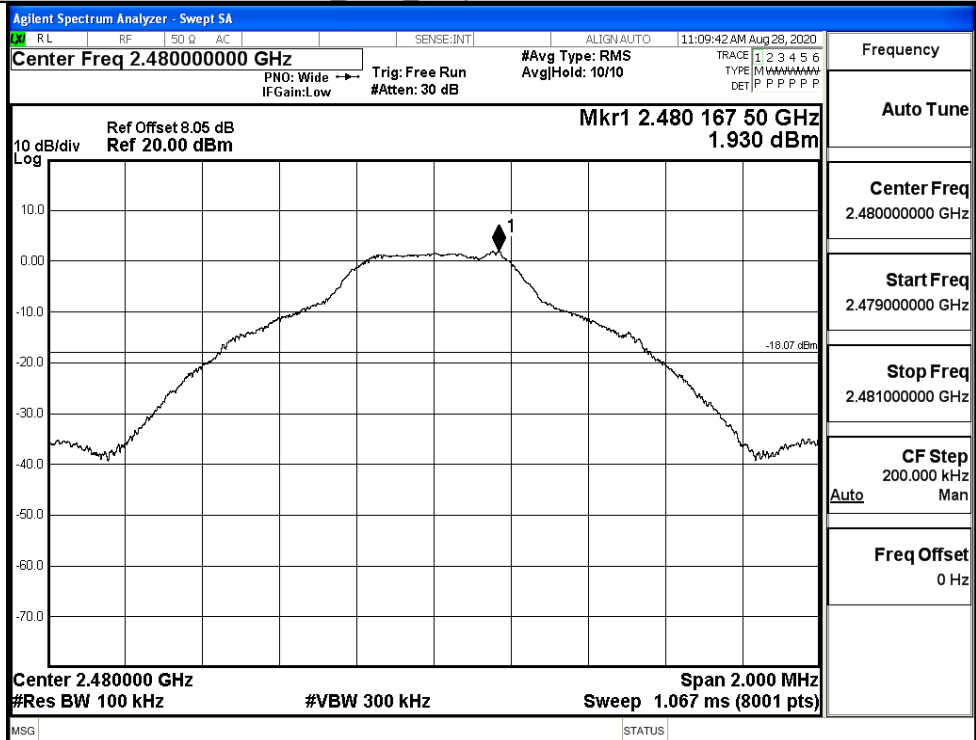


Puw

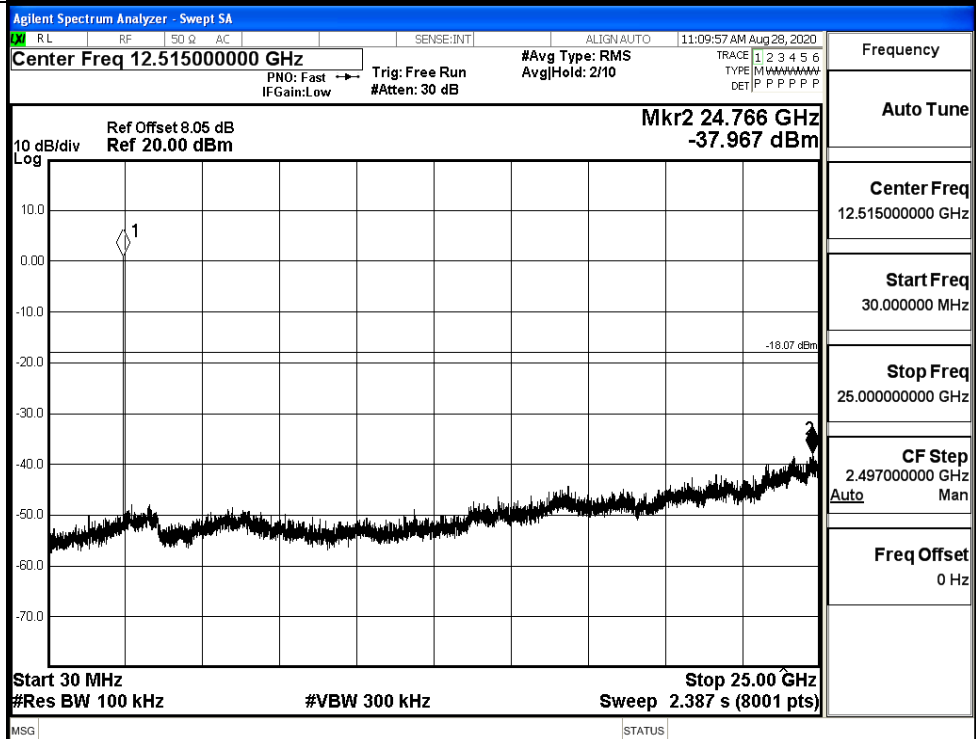


GFSK HCH Graphs

Pref

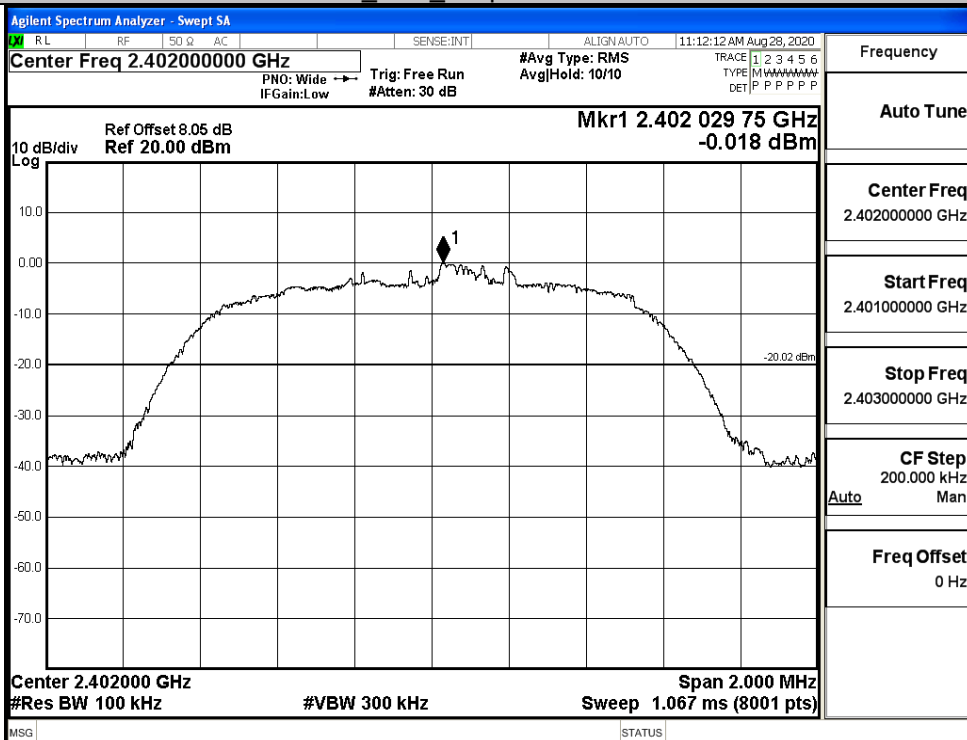


Puw

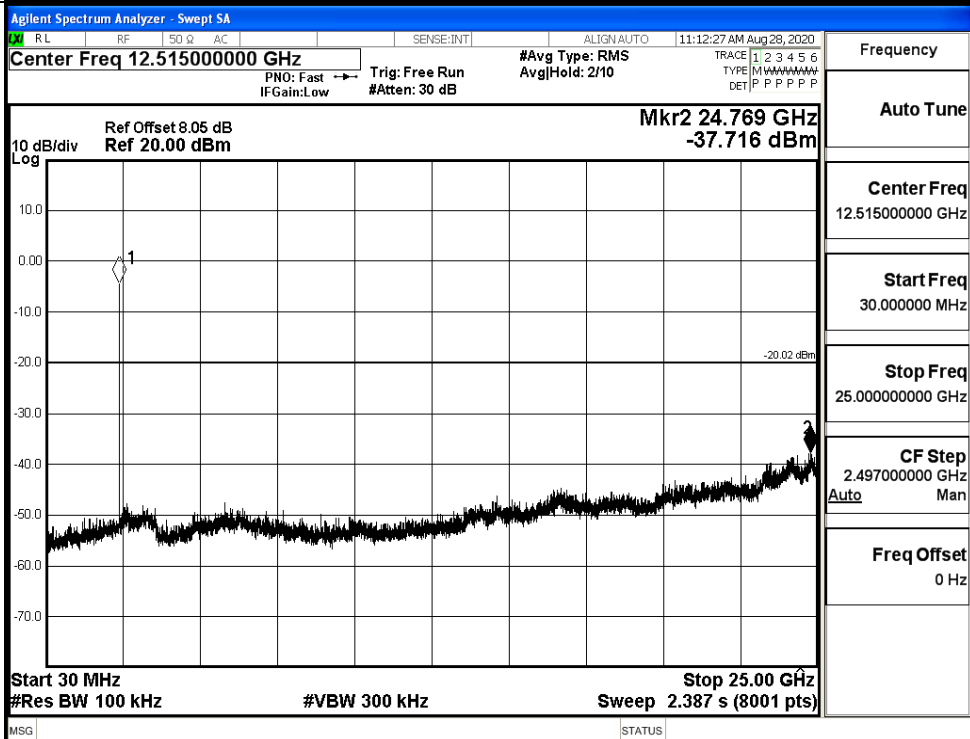


$\pi/4$ DQPSK_LCH_Graphs

Pref

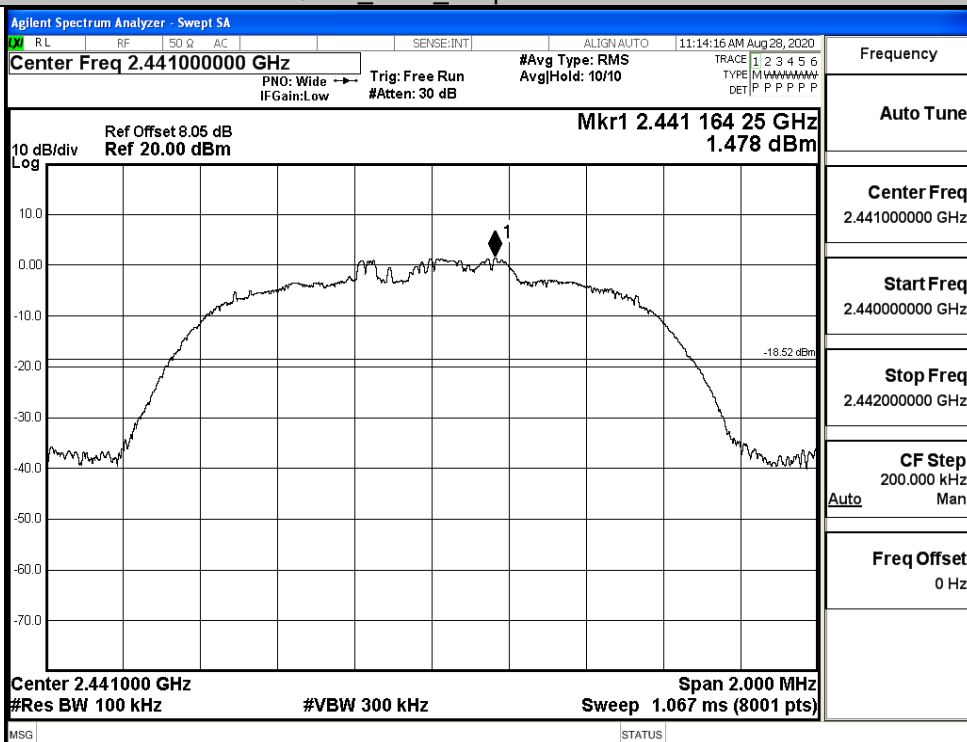


Puw

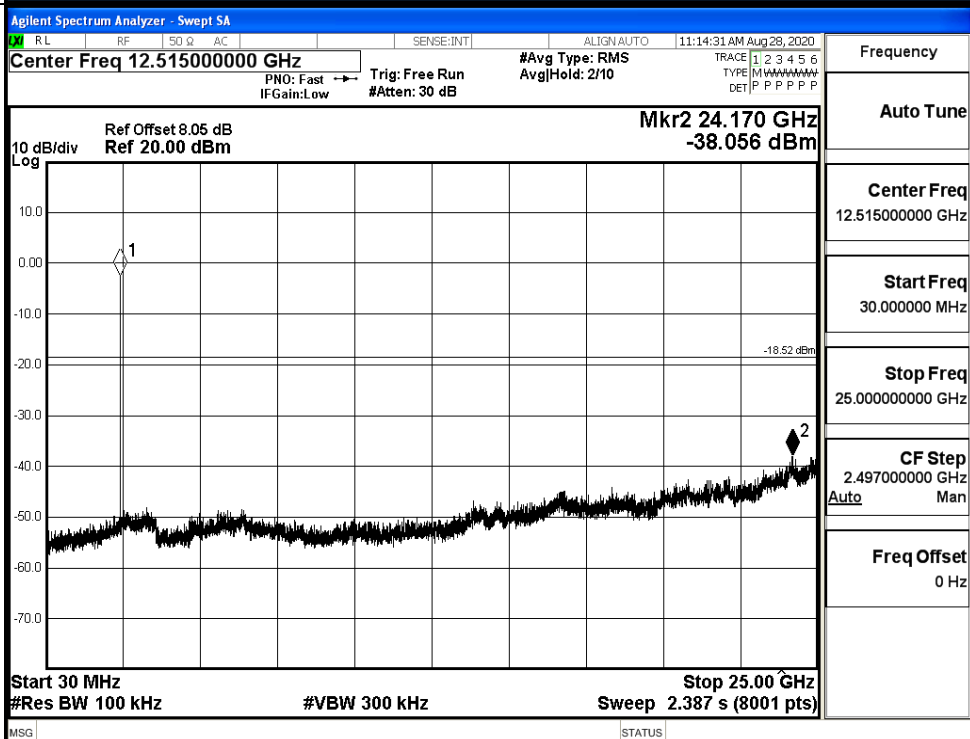


π /4DQPSK_MCH_Graphs

Pref

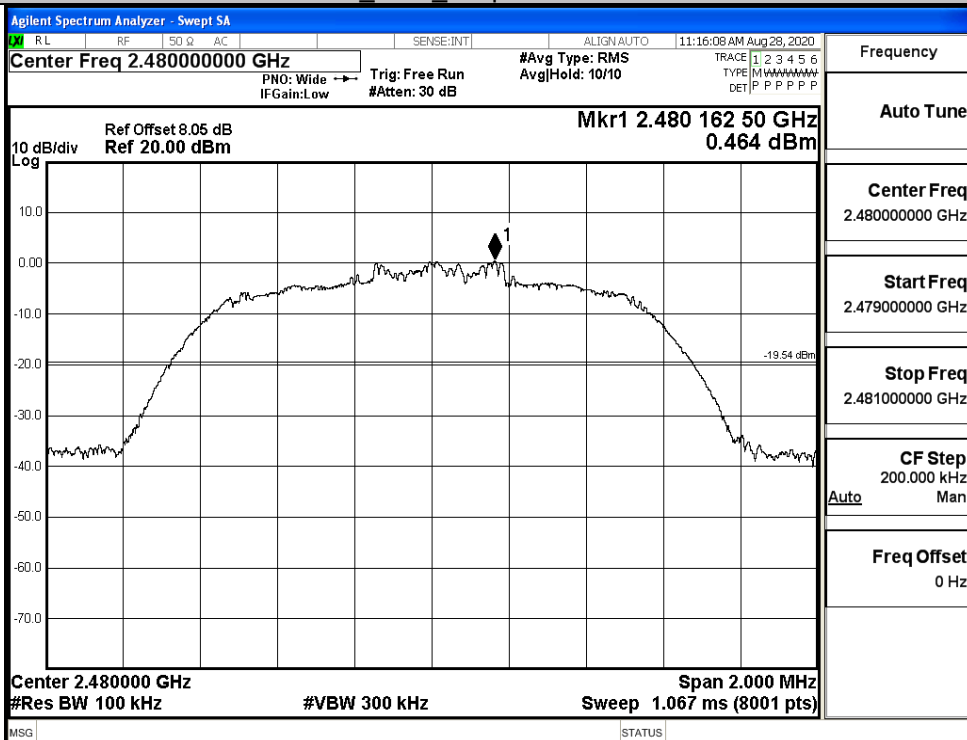


Puw

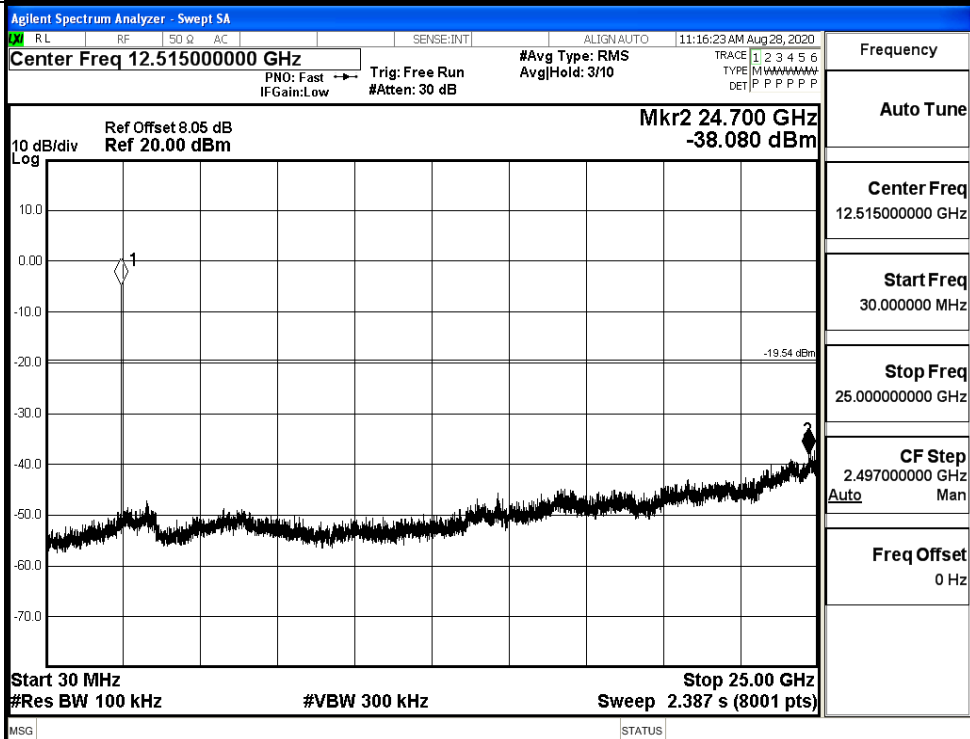


π /4DQPSK_HCH_Graphs

Pref

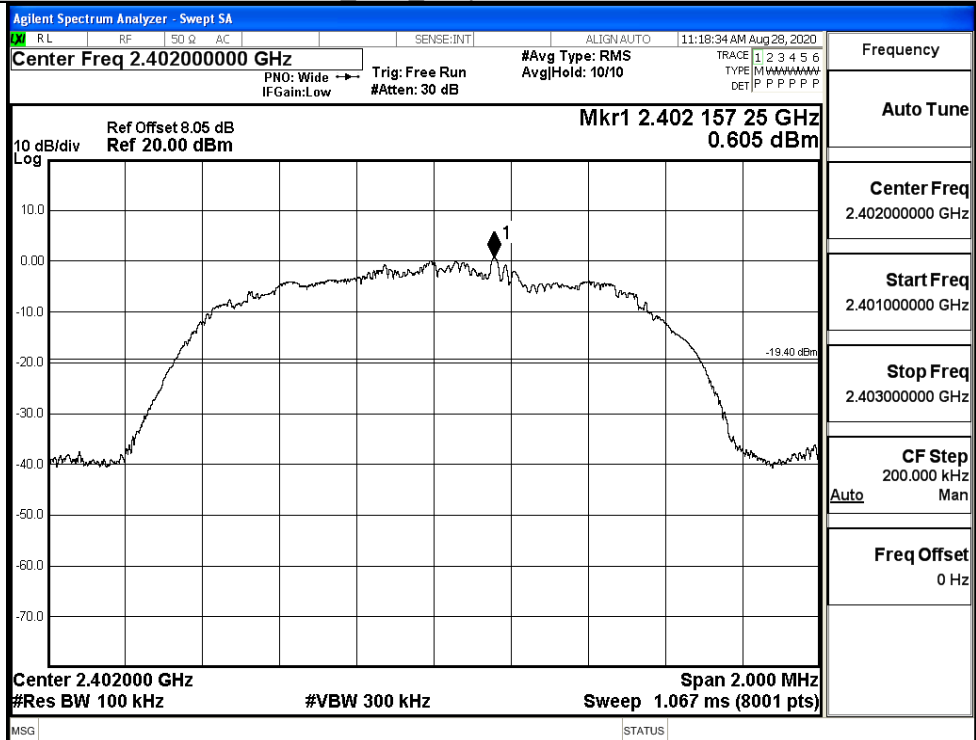


Puw



8DPSK_LCH_Graphs

Pref

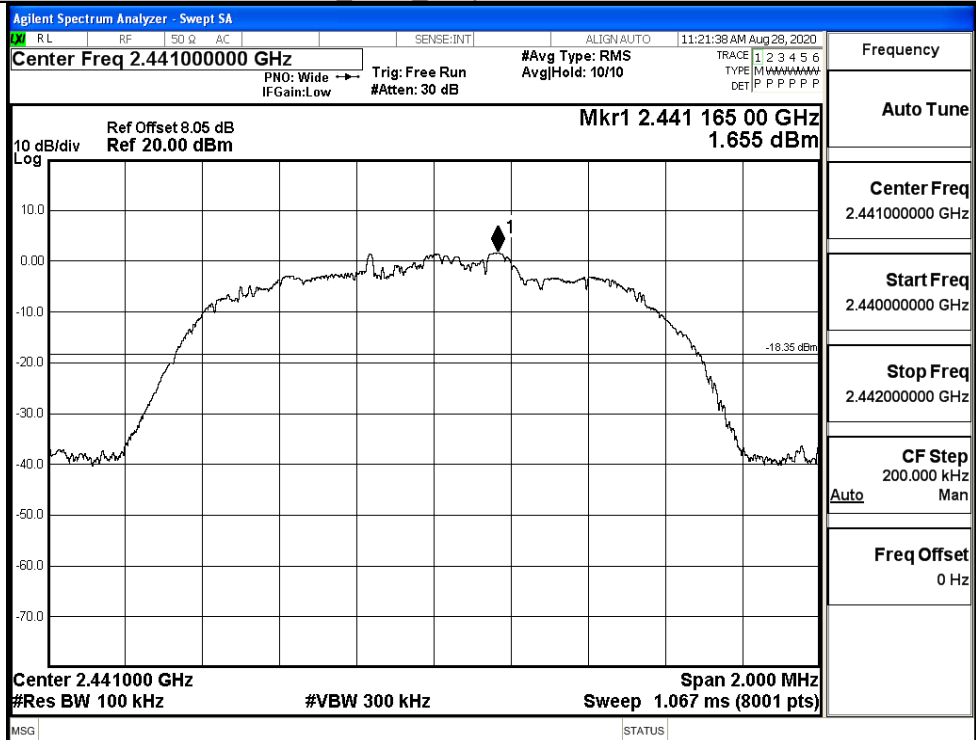


Puw

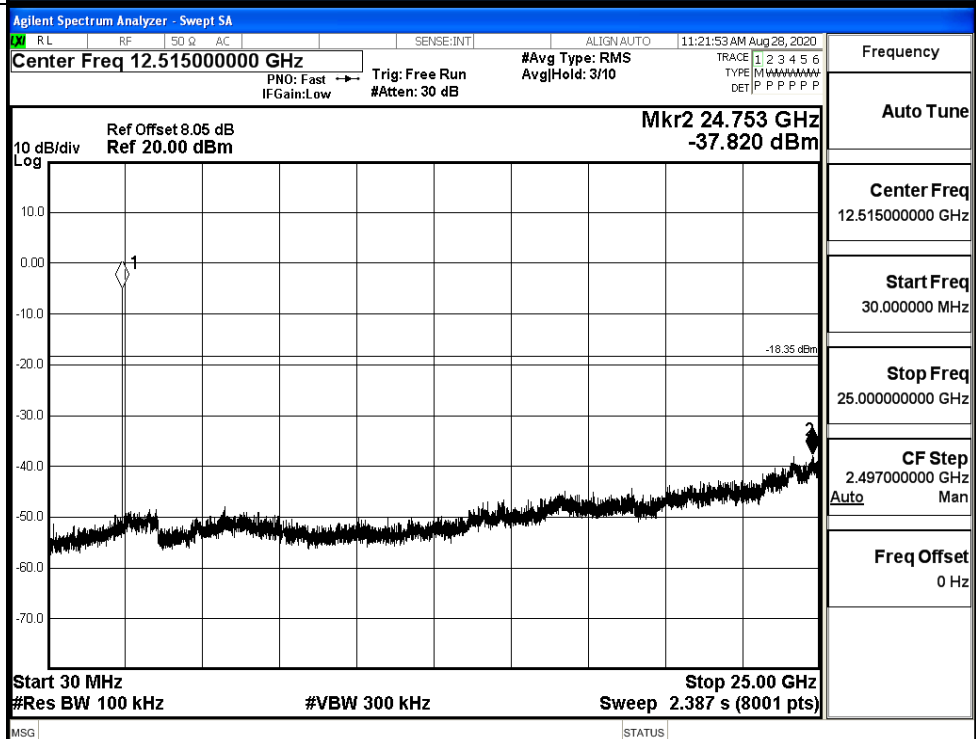


8DPSK_MCH_Graphs

Pref

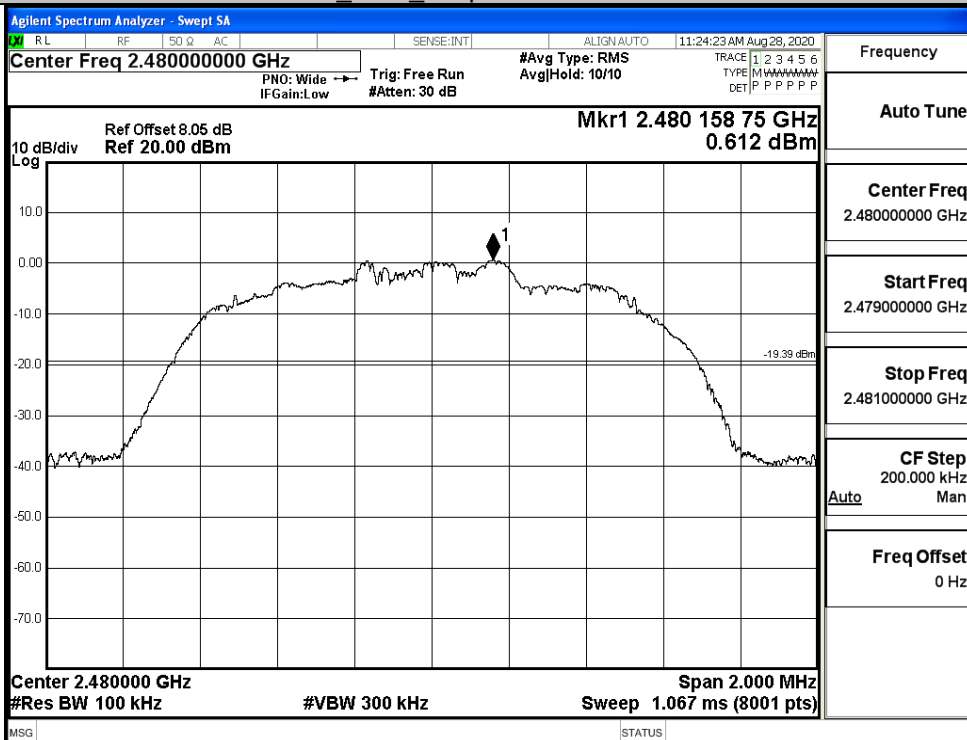


Puw

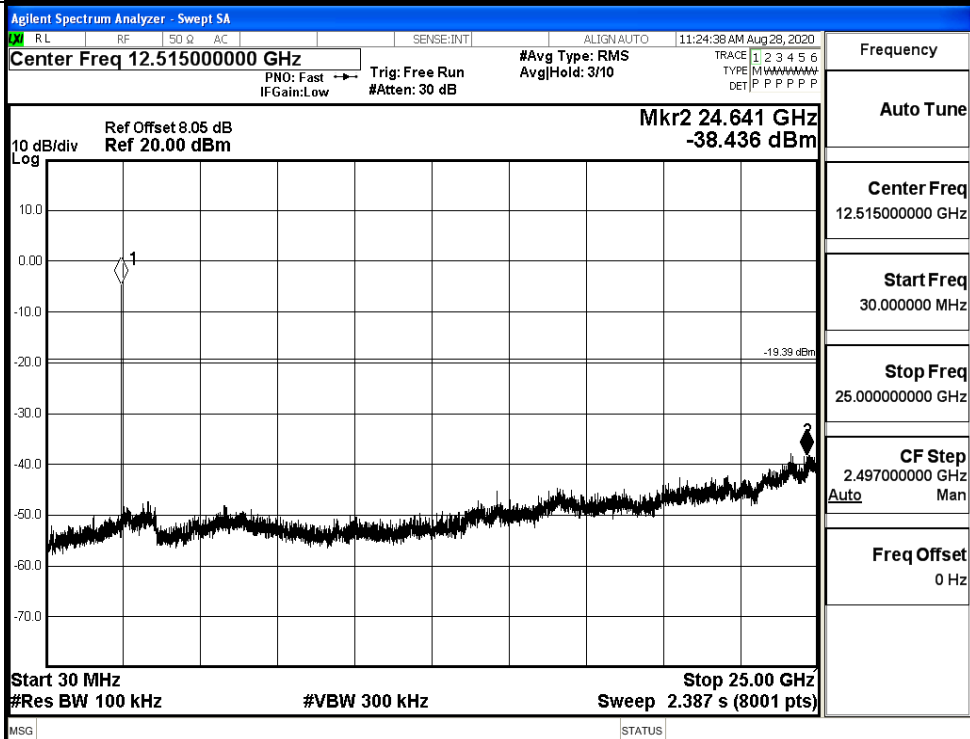


8DPSK_HCH_Graphs

Pref



Puw

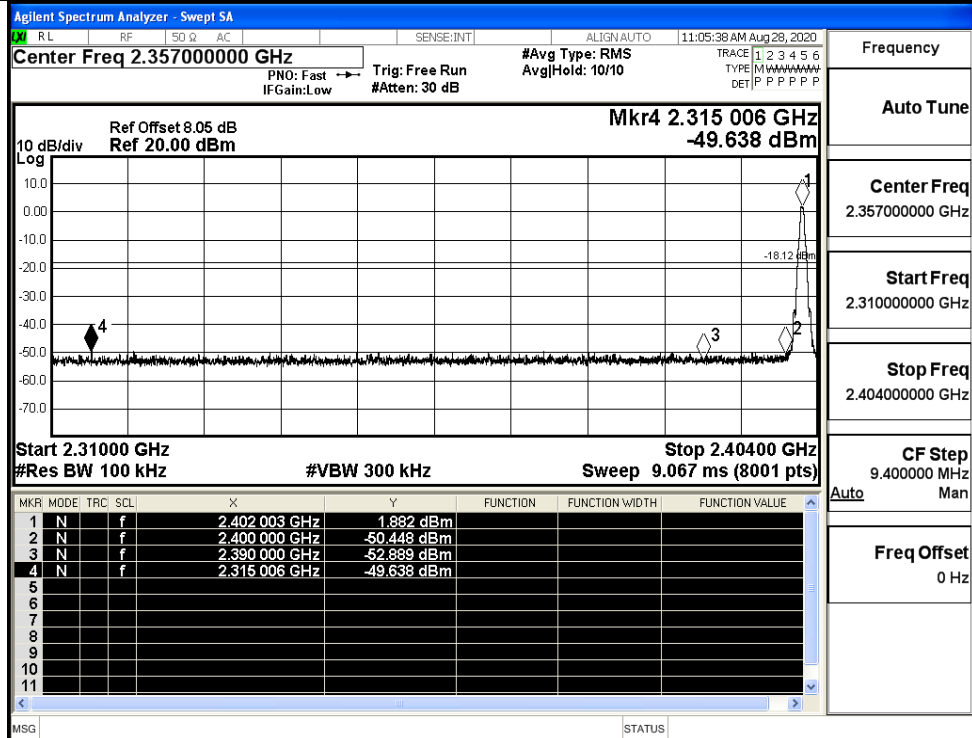


A.7 Band-edge for RF Conducted Emissions

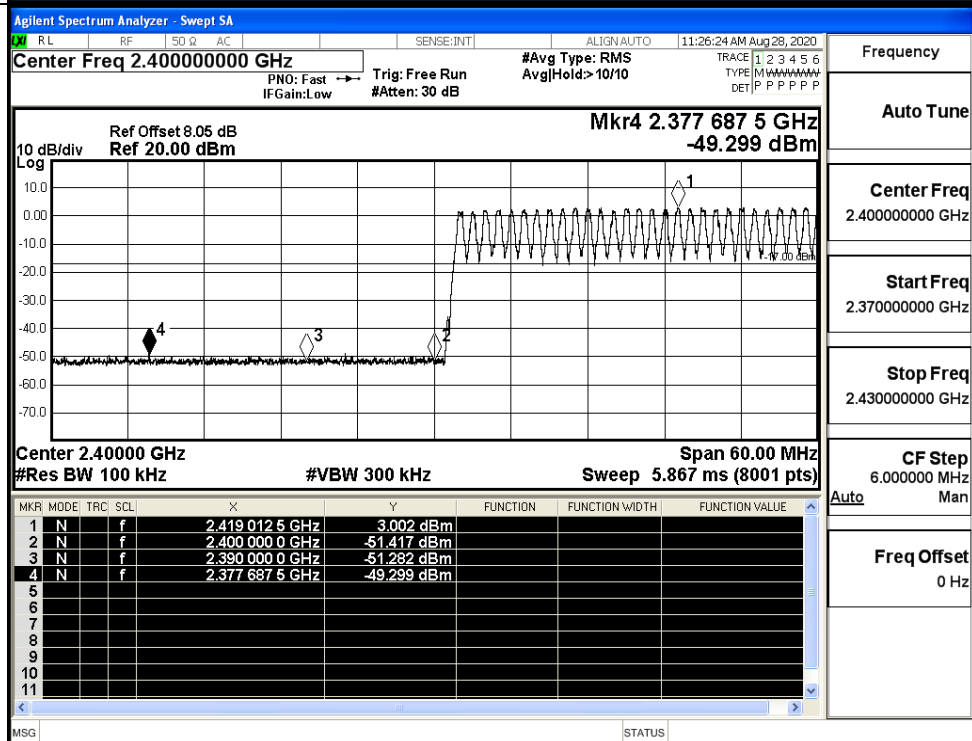
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	1.882	Off	-49.638	-18.12	PASS
			3.002	On	-49.299	-17	PASS
	HCH	2480	2.010	Off	-48.744	-17.99	PASS
			2.810	On	-48.841	-17.19	PASS
$\pi/4$ DQPSK	LCH	2402	-0.156	Off	-48.740	-20.16	PASS
			1.659	On	-48.648	-18.34	PASS
	HCH	2480	0.745	Off	-49.036	-19.26	PASS
			1.505	On	-49.035	-18.5	PASS
8DPSK	LCH	2402	0.723	Off	-49.750	-19.28	PASS
			1.541	On	-48.625	-18.46	PASS
	HCH	2480	0.704	Off	-48.793	-19.3	PASS
			1.675	On	-48.821	-18.33	PASS

Test Graphs

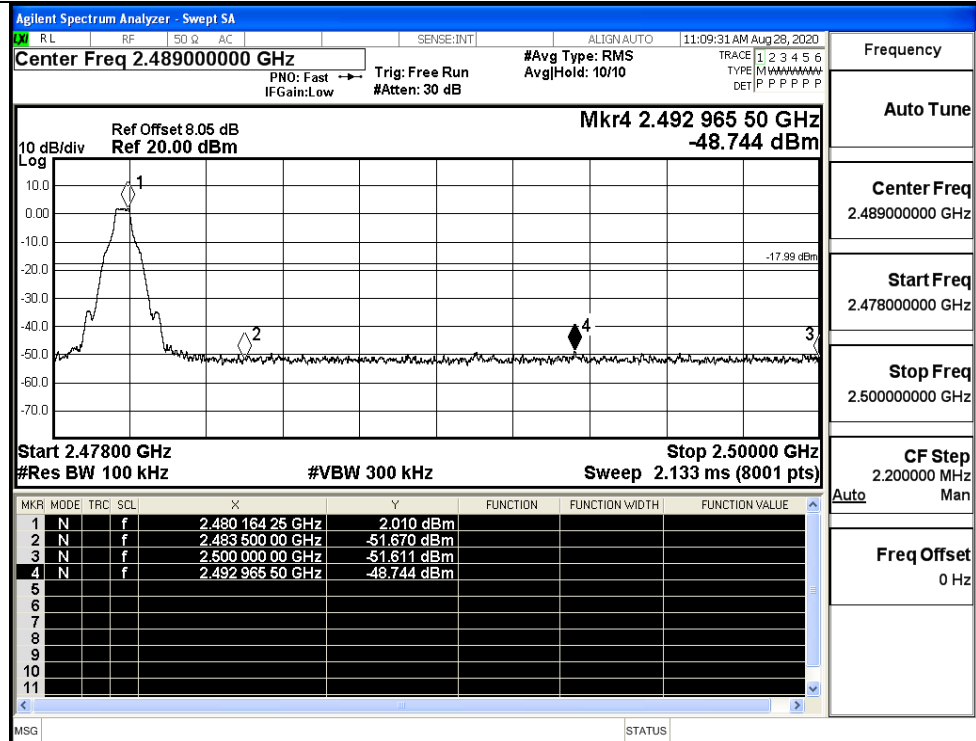
GFSK/LCH/No Hop



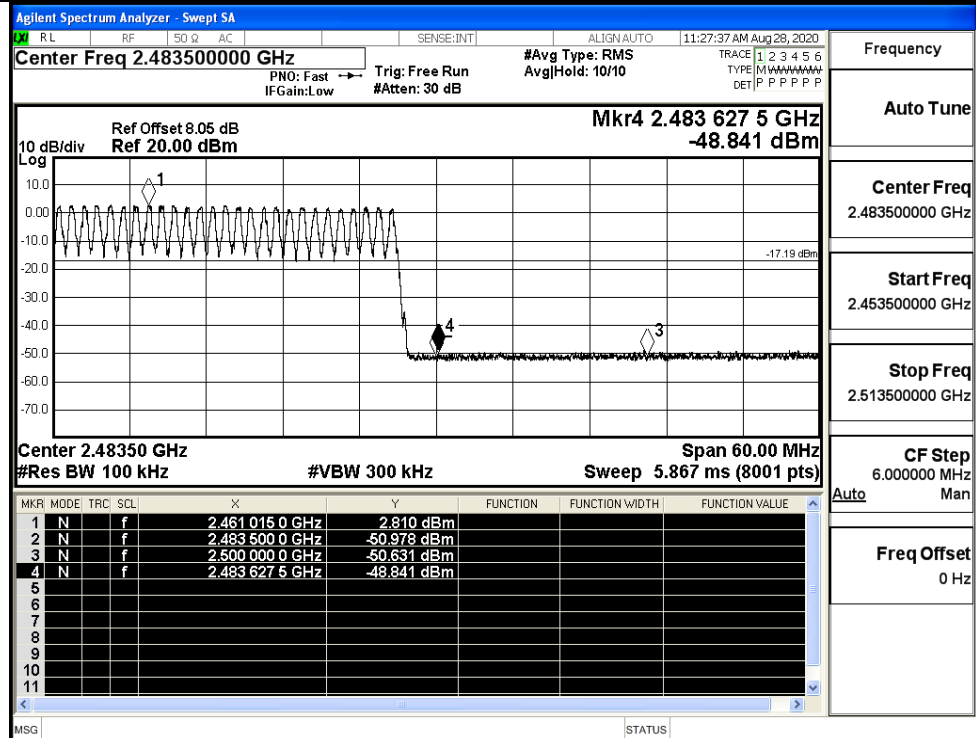
GFSK/LCH/Hop



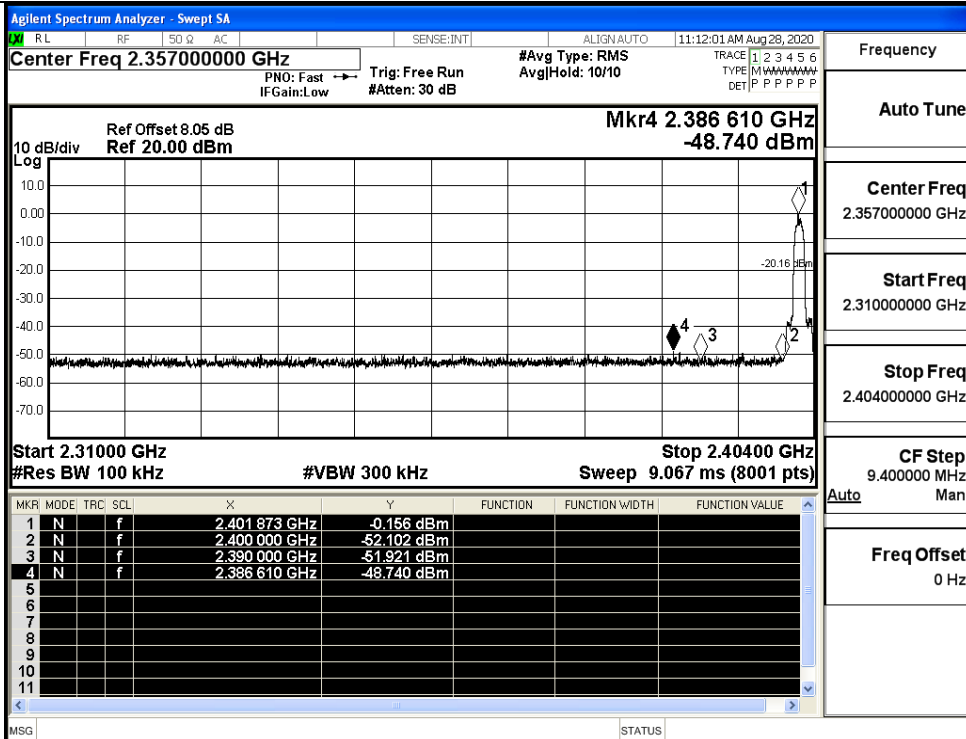
GFSK/HCH/No Hop



GFSK/HCH/Hop



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



Frequency

Auto Tune

Center Freq
2.357000000 GHz

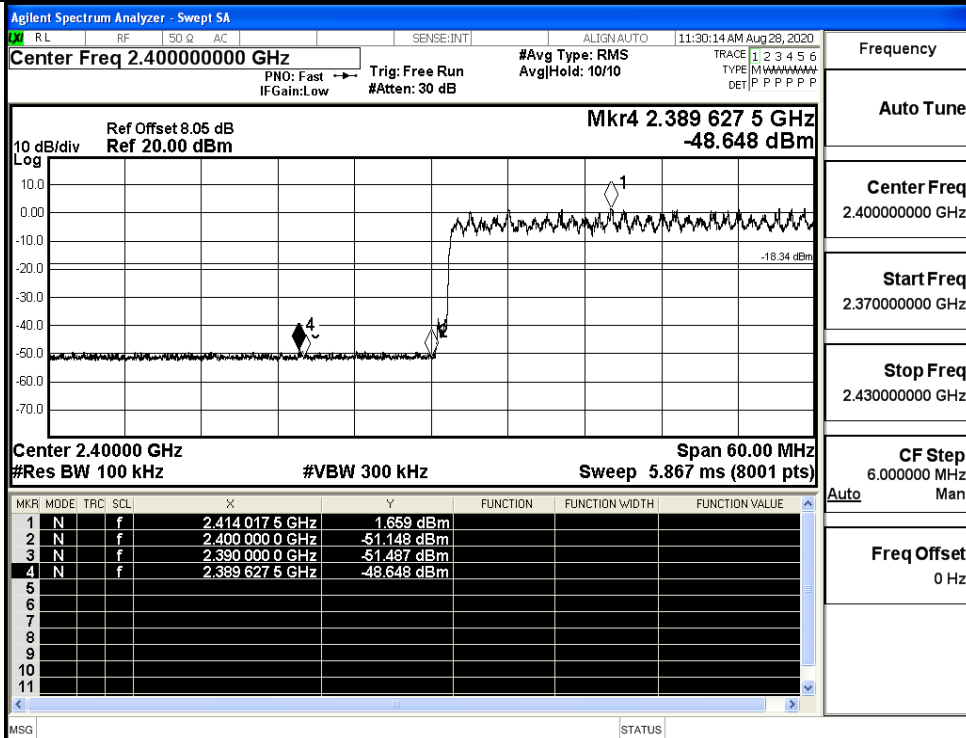
Start Freq
2.310000000 GHz

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

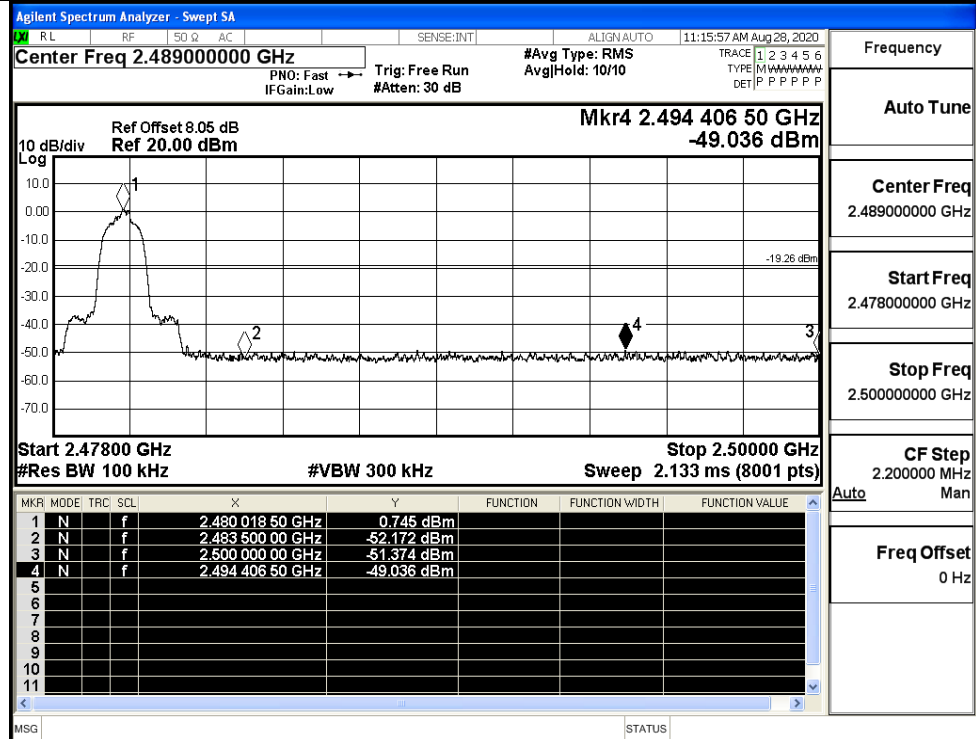
Start Freq
2.370000000 GHz

Stop Freq
2.430000000 GHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

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

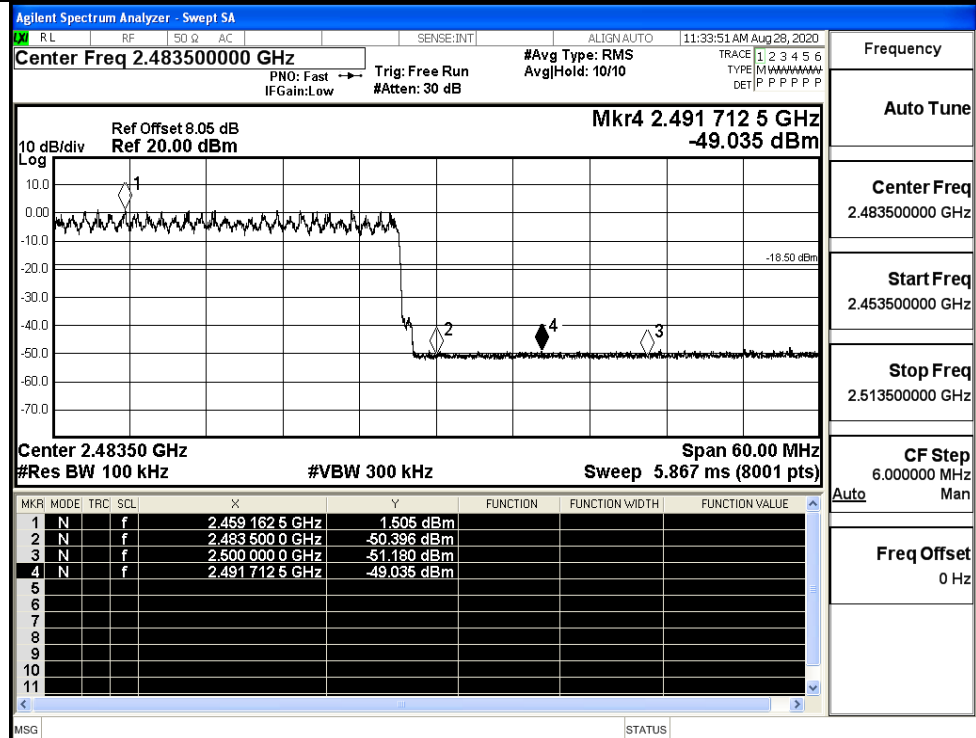


Frequency

Auto Tune

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

$\pi/4$ DQPSK/HCH/Hop

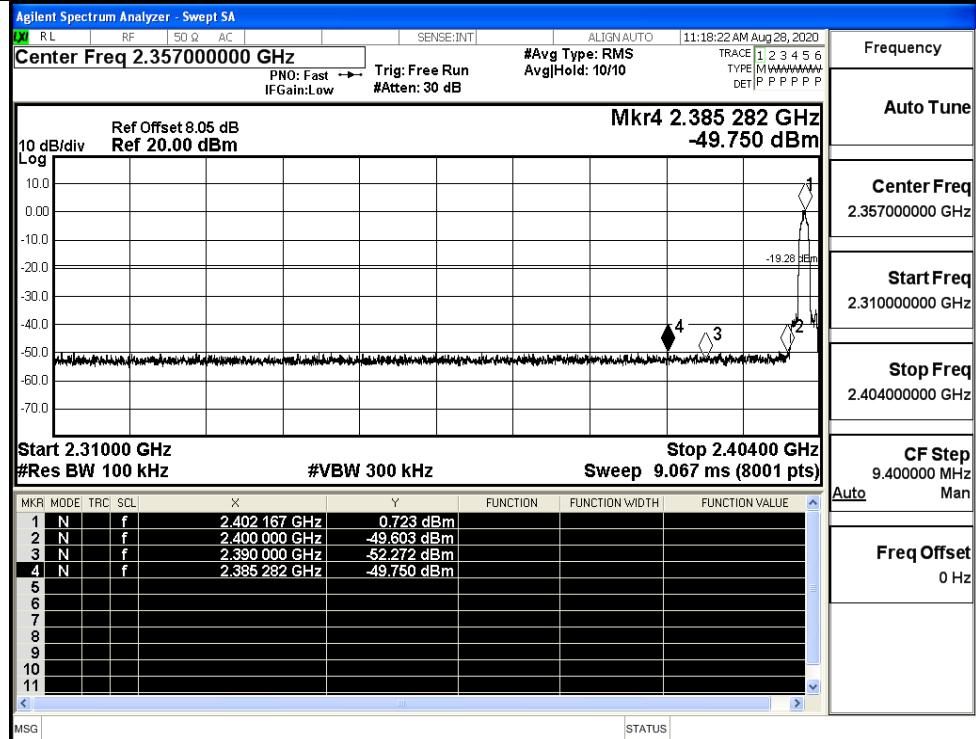


Frequency

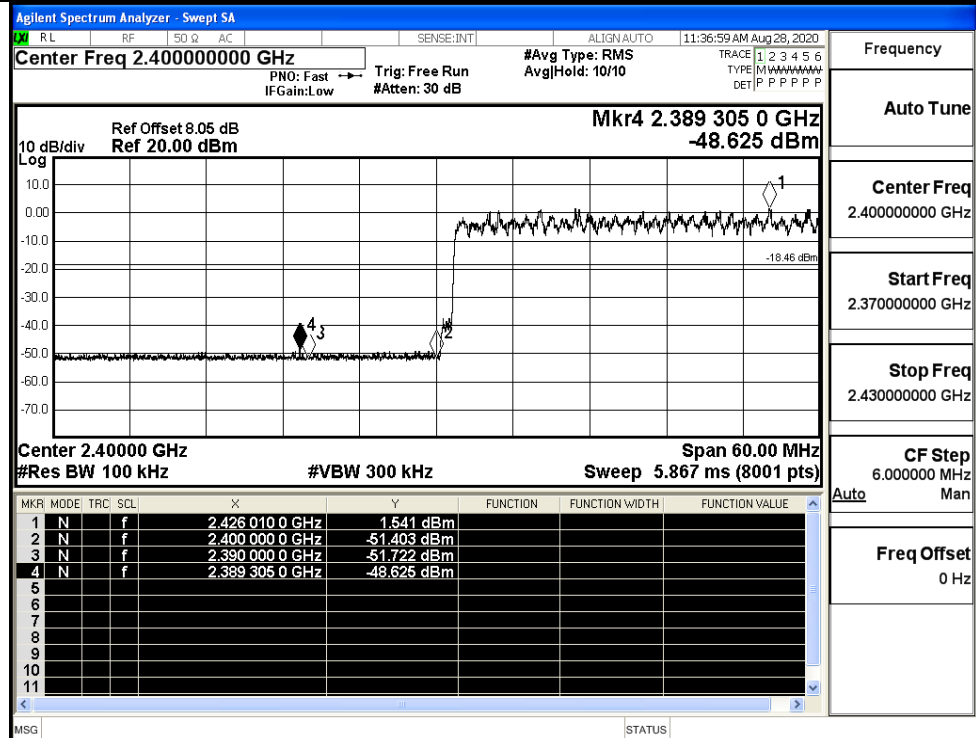
Auto Tune

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

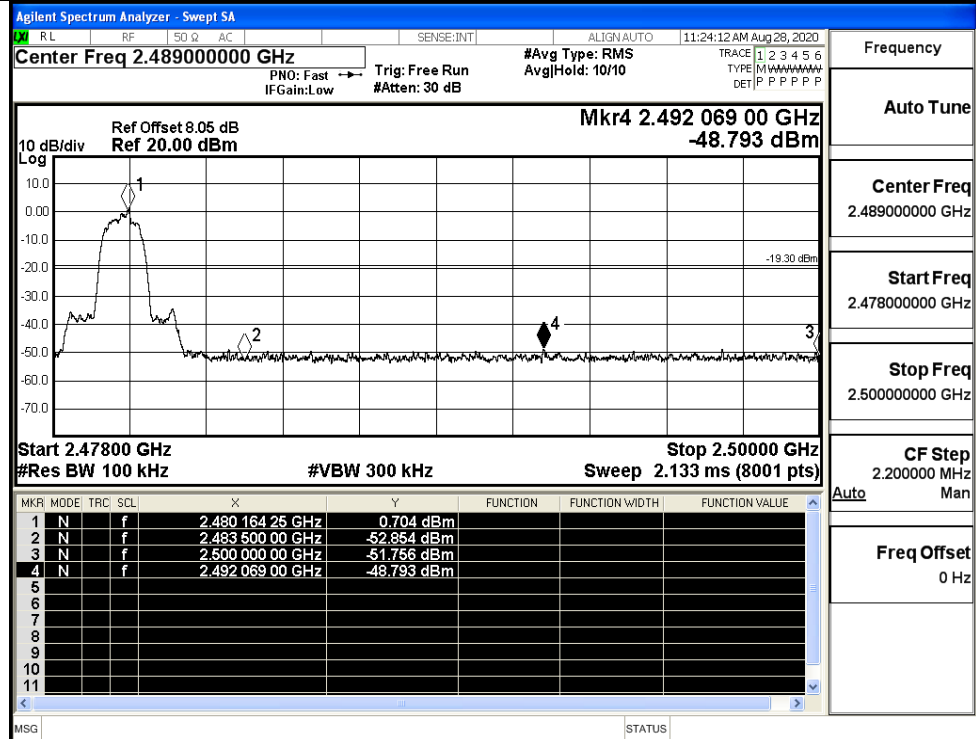
8DPSK/LCH/No Hop



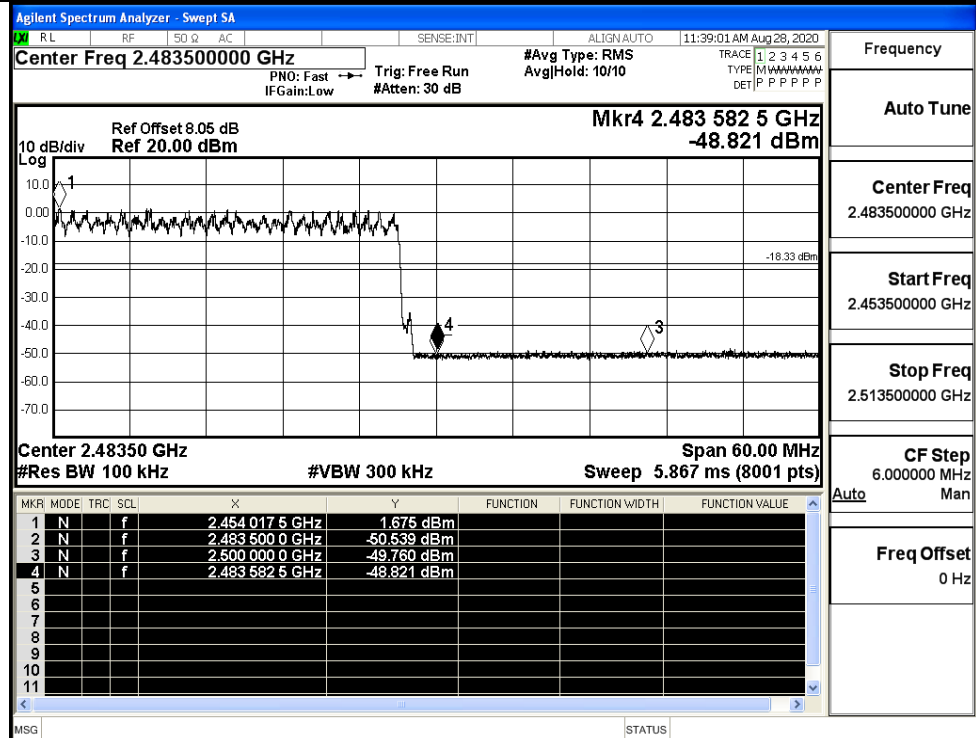
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



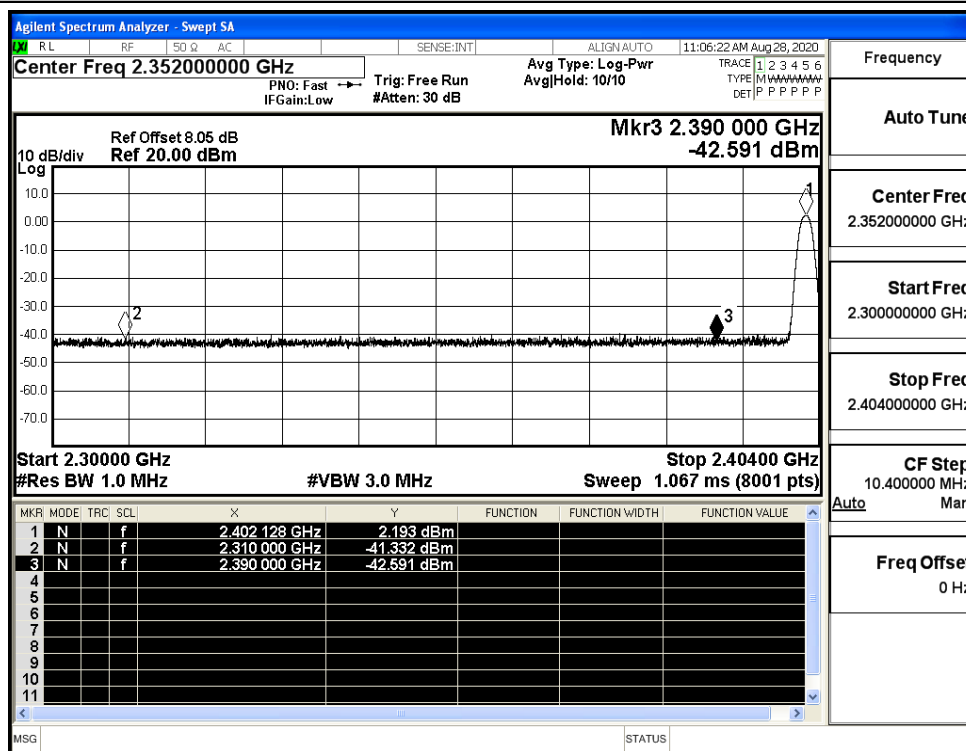
8DPSK/HCH/Hop



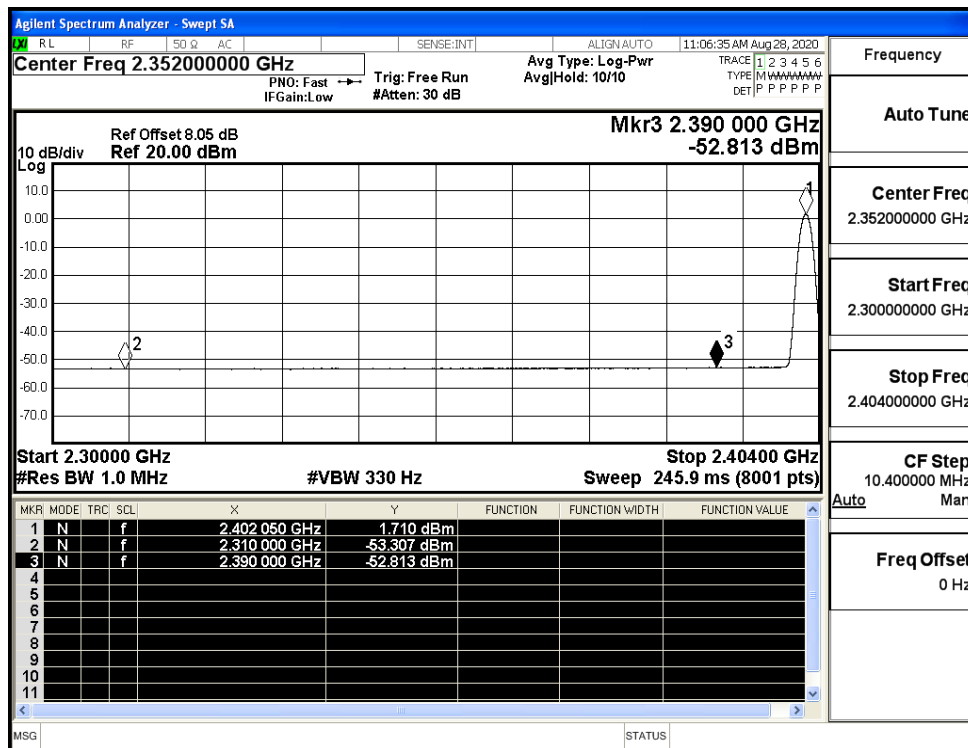
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-41.33	2.0	0	53.93	PEAK	74	PASS
	Off	2310.0	-53.31	2.0	0	41.95	AV	54	PASS
	Off	2390.0	-42.59	2.0	0	52.67	PEAK	74	PASS
	Off	2390.0	-52.81	2.0	0	42.44	AV	54	PASS
	Off	2483.5	-42.24	2.0	0	53.01	PEAK	74	PASS
	Off	2483.5	-52.30	2.0	0	42.96	AV	54	PASS
	Off	2500.0	-40.66	2.0	0	54.60	PEAK	74	PASS
	Off	2500.0	-52.21	2.0	0	43.05	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-43.70	2.0	0	51.56	PEAK	74	PASS
	Off	2310.0	-53.23	2.0	0	42.02	AV	54	PASS
	Off	2390.0	-43.06	2.0	0	52.20	PEAK	74	PASS
	Off	2390.0	-52.84	2.0	0	42.42	AV	54	PASS
	Off	2483.5	-41.76	2.0	0	53.50	PEAK	74	PASS
	Off	2483.5	-52.34	2.0	0	42.91	AV	54	PASS
	Off	2500.0	-41.37	2.0	0	53.88	PEAK	74	PASS
	Off	2500.0	-52.33	2.0	0	42.93	AV	54	PASS
8DPSK	Off	2310.0	-42.88	2.0	0	52.38	PEAK	74	PASS
	Off	2310.0	-53.27	2.0	0	41.98	AV	54	PASS
	Off	2390.0	-43.10	2.0	0	52.16	PEAK	74	PASS
	Off	2390.0	-52.89	2.0	0	42.37	AV	54	PASS
	Off	2483.5	-43.13	2.0	0	52.12	PEAK	74	PASS
	Off	2483.5	-52.36	2.0	0	42.90	AV	54	PASS
	Off	2500.0	-42.53	2.0	0	52.72	PEAK	74	PASS
	Off	2500.0	-52.27	2.0	0	42.99	AV	54	PASS

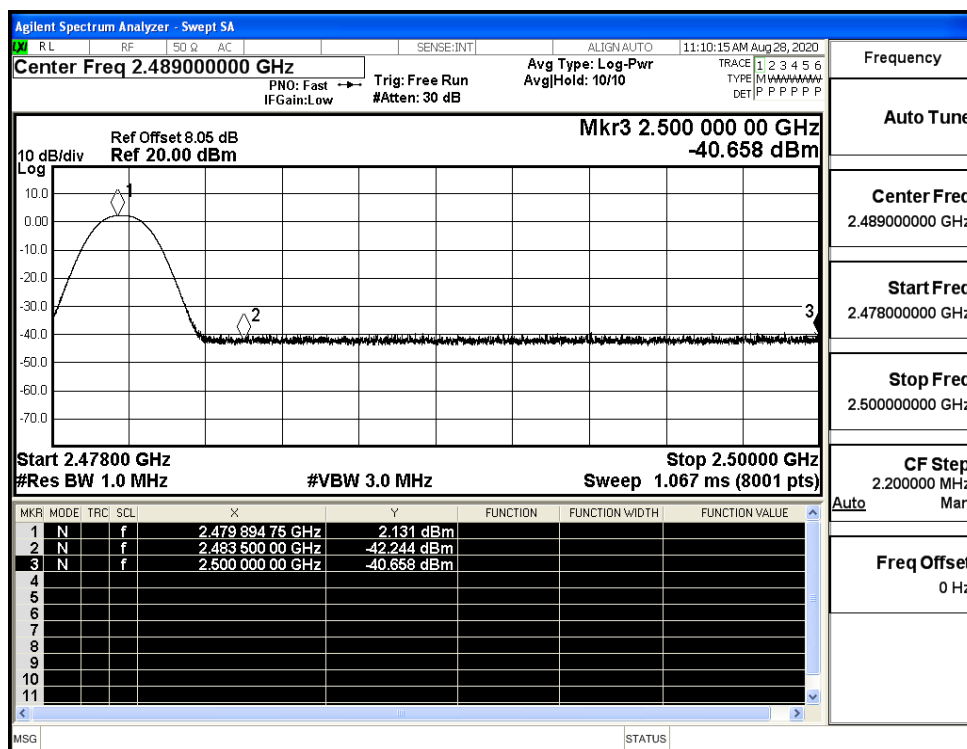
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



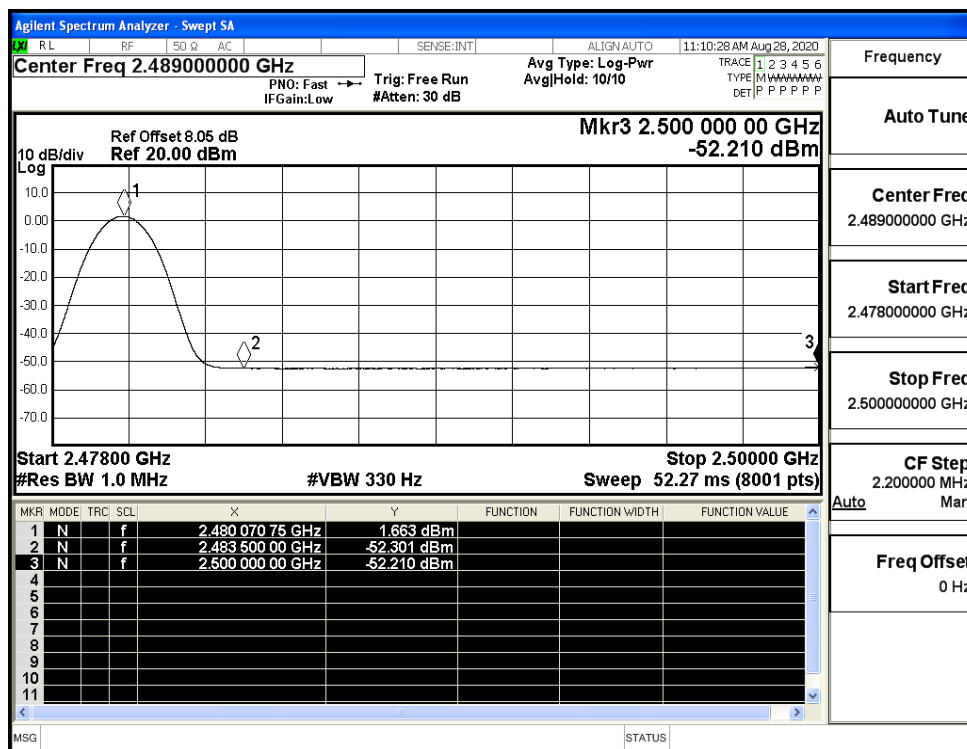
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)

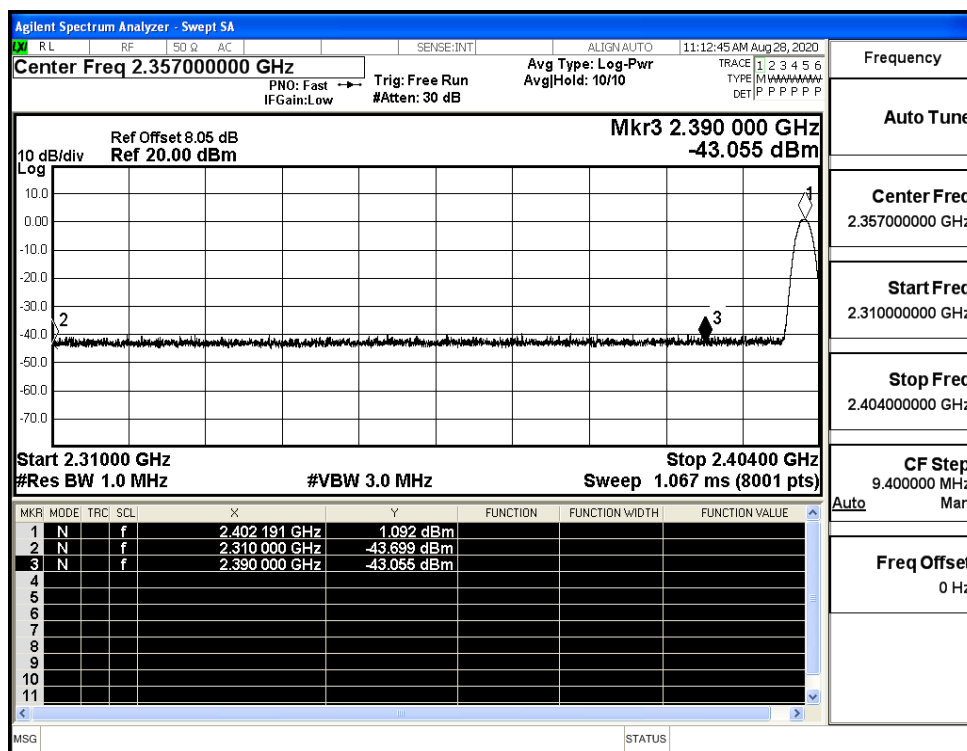
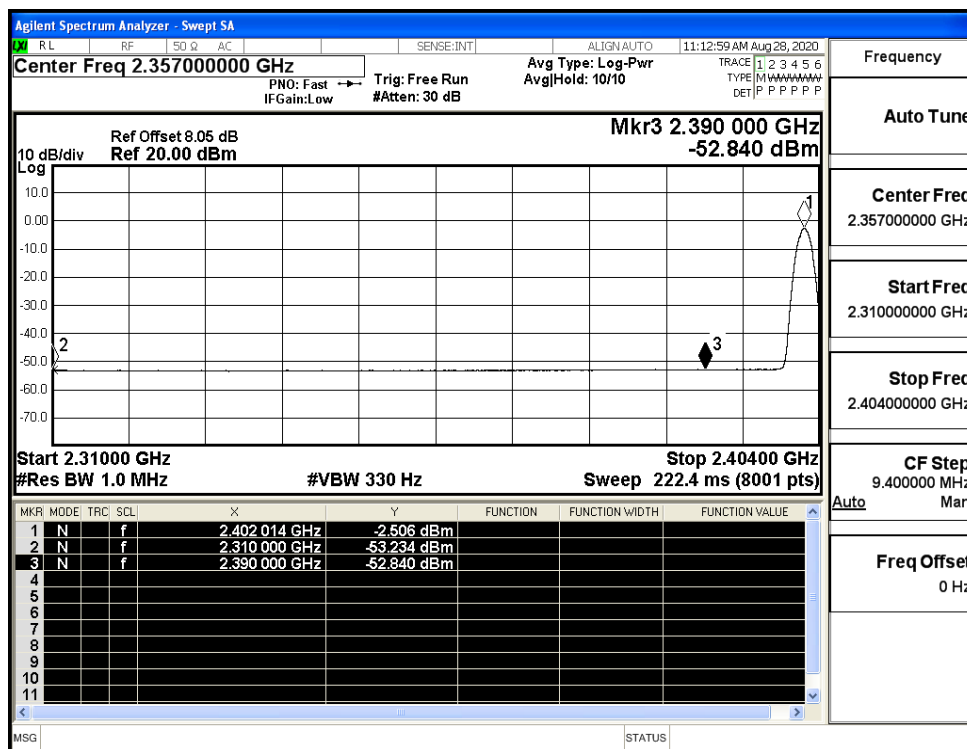


Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)

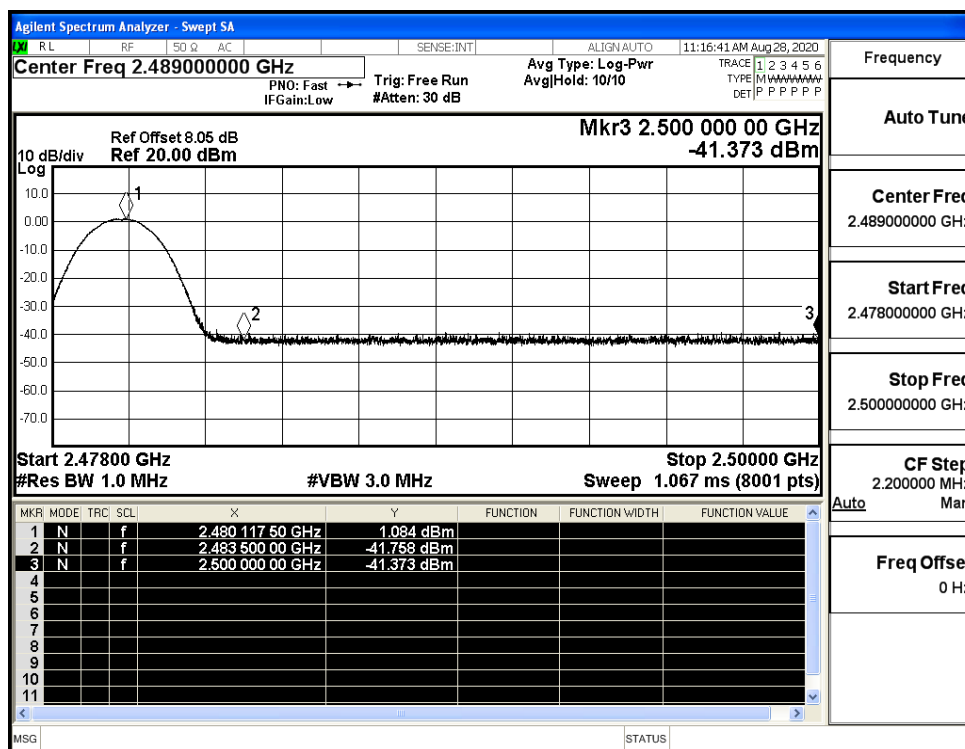


Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)

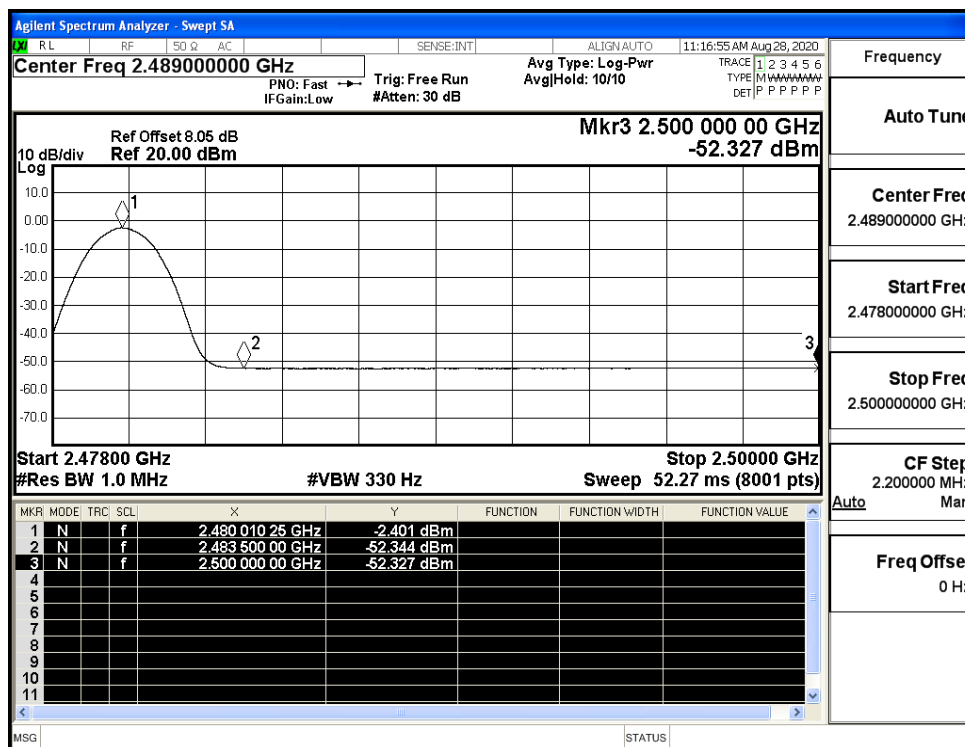


Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)

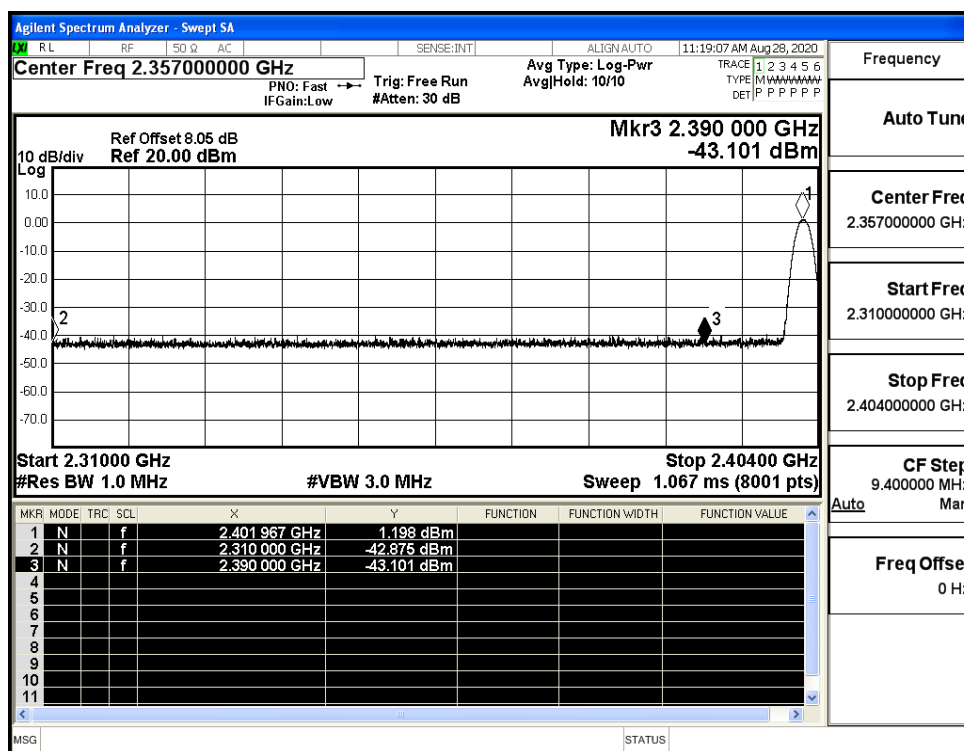
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



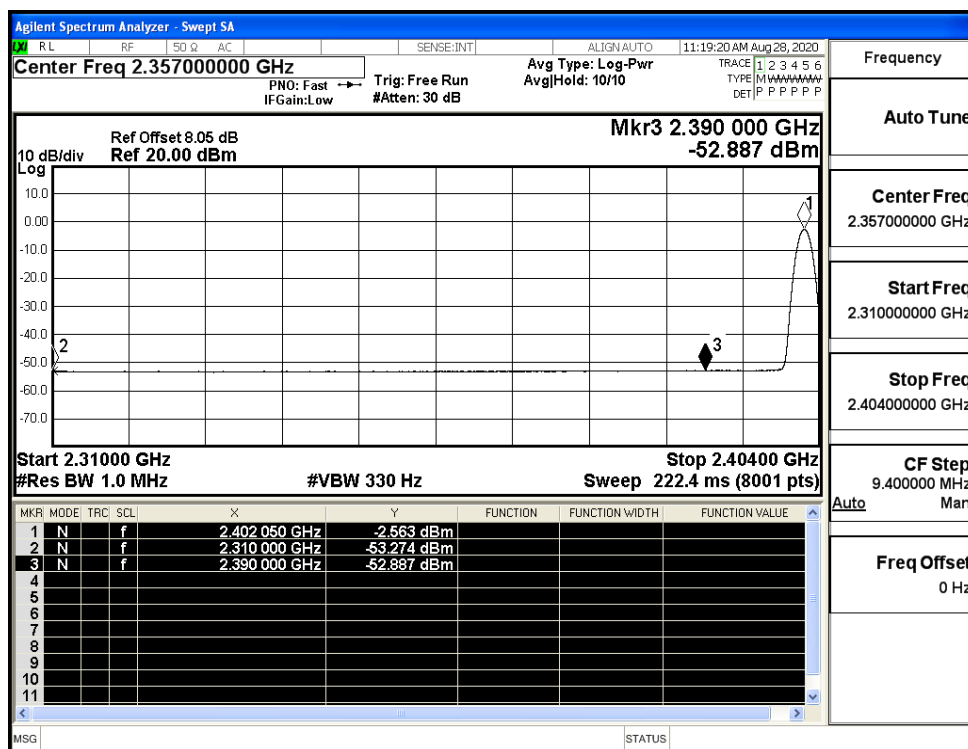
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



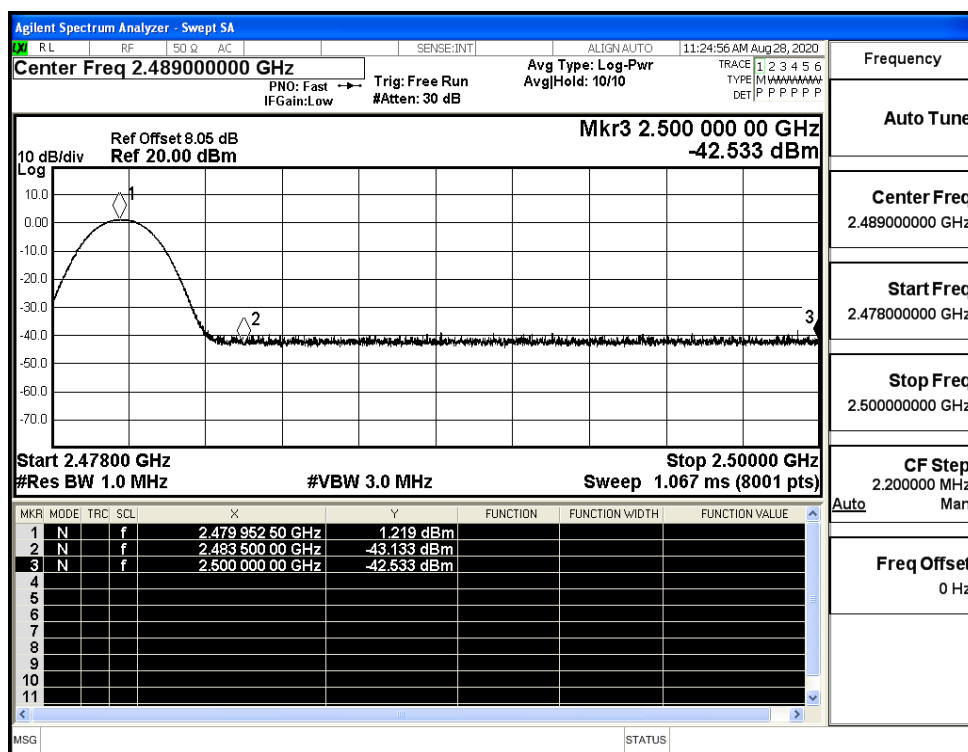
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

