

Appendix A

RF Test Data for BT V4.0(BDR/EDR) (Conducted Measurement)

Product Name: Tablet PC

Trade Mark: FUSION5

Test Model: FWIN232

Environmental Conditions

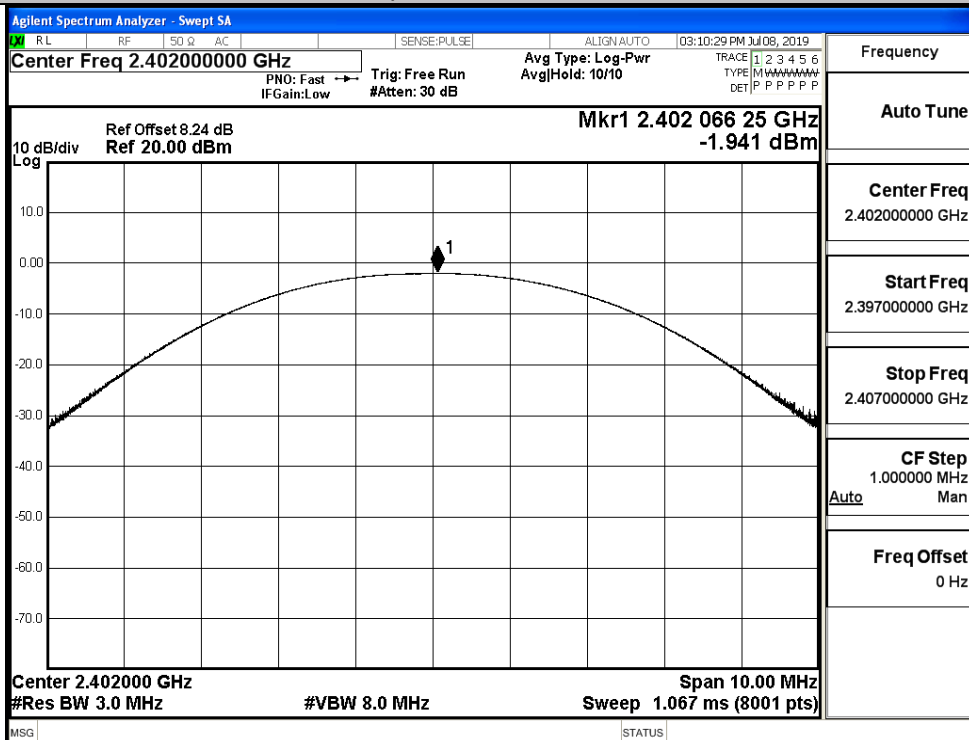
Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Lihuan
Supervised by:	Wang.Chuang

A.1 Maximum Conducted Peak Output Power

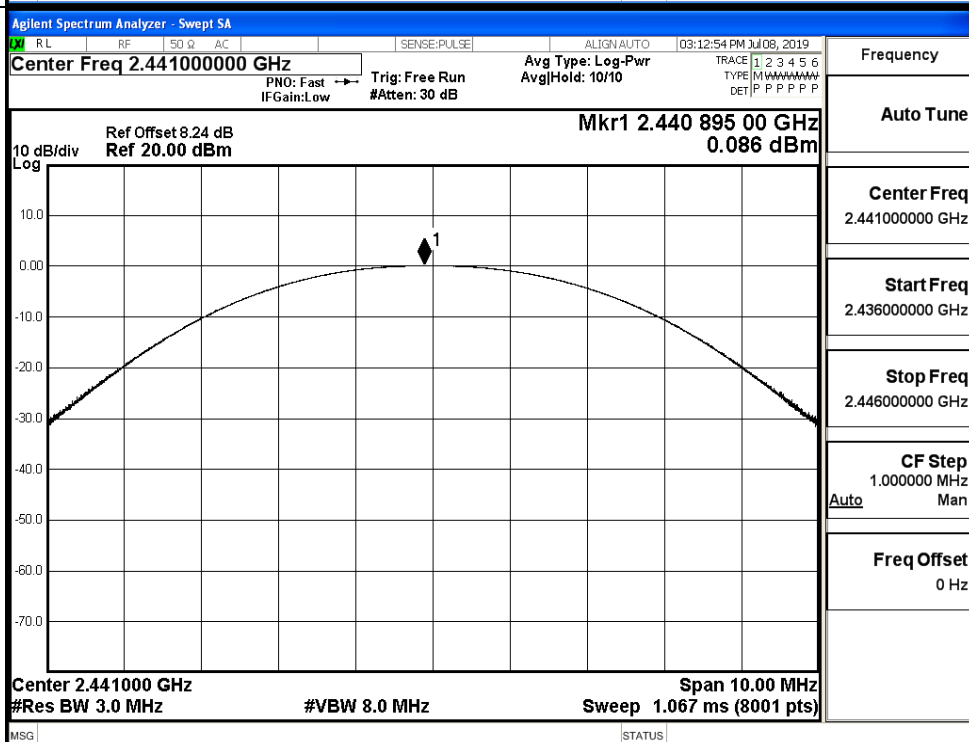
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.941	30	PASS
	MCH	0.086	30	PASS
	HCH	-0.081	30	PASS
$\pi/4$ DQPSK	LCH	-2.622	21	PASS
	MCH	-0.744	21	PASS
	HCH	-0.768	21	PASS
8DPSK	LCH	-2.252	21	PASS
	MCH	-0.288	21	PASS
	HCH	-0.593	21	PASS

Test Graphs

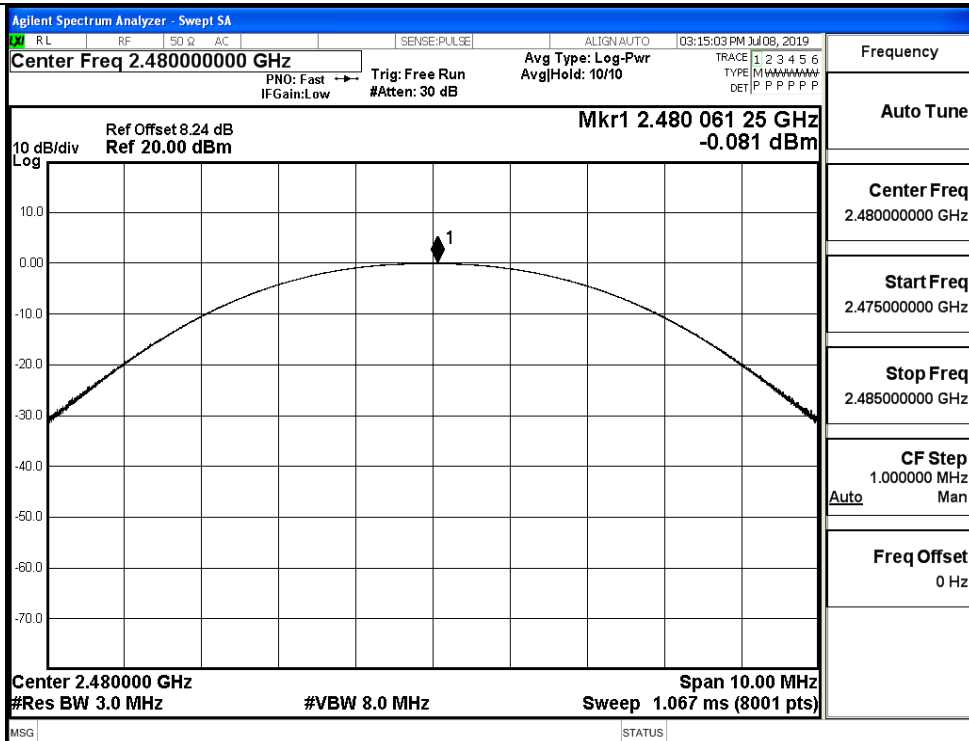
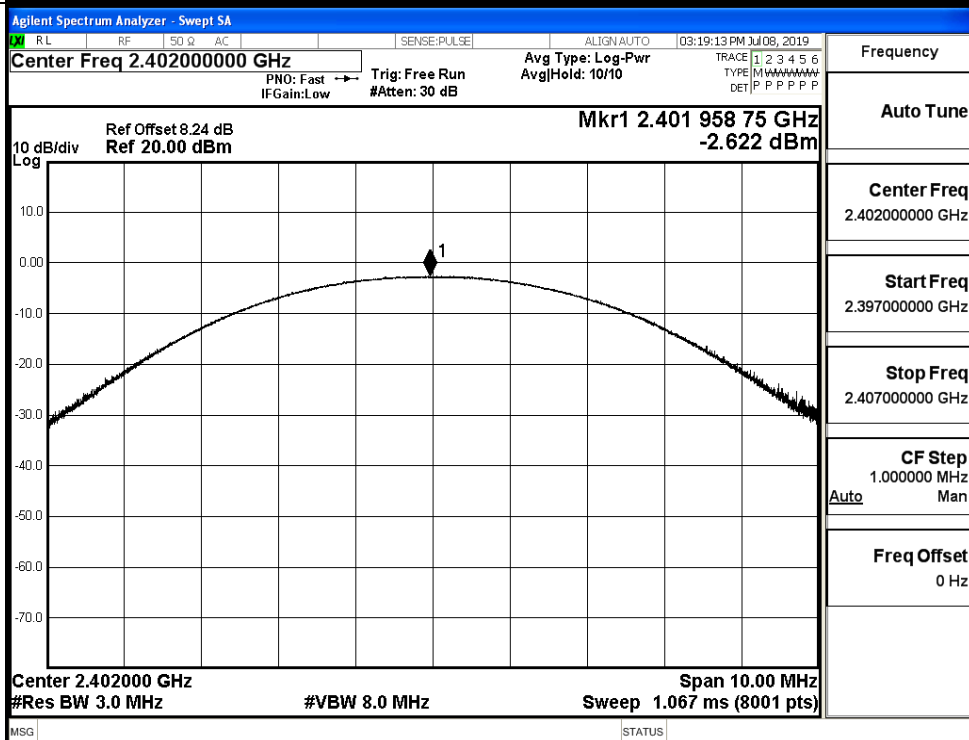
GFSK/LCH

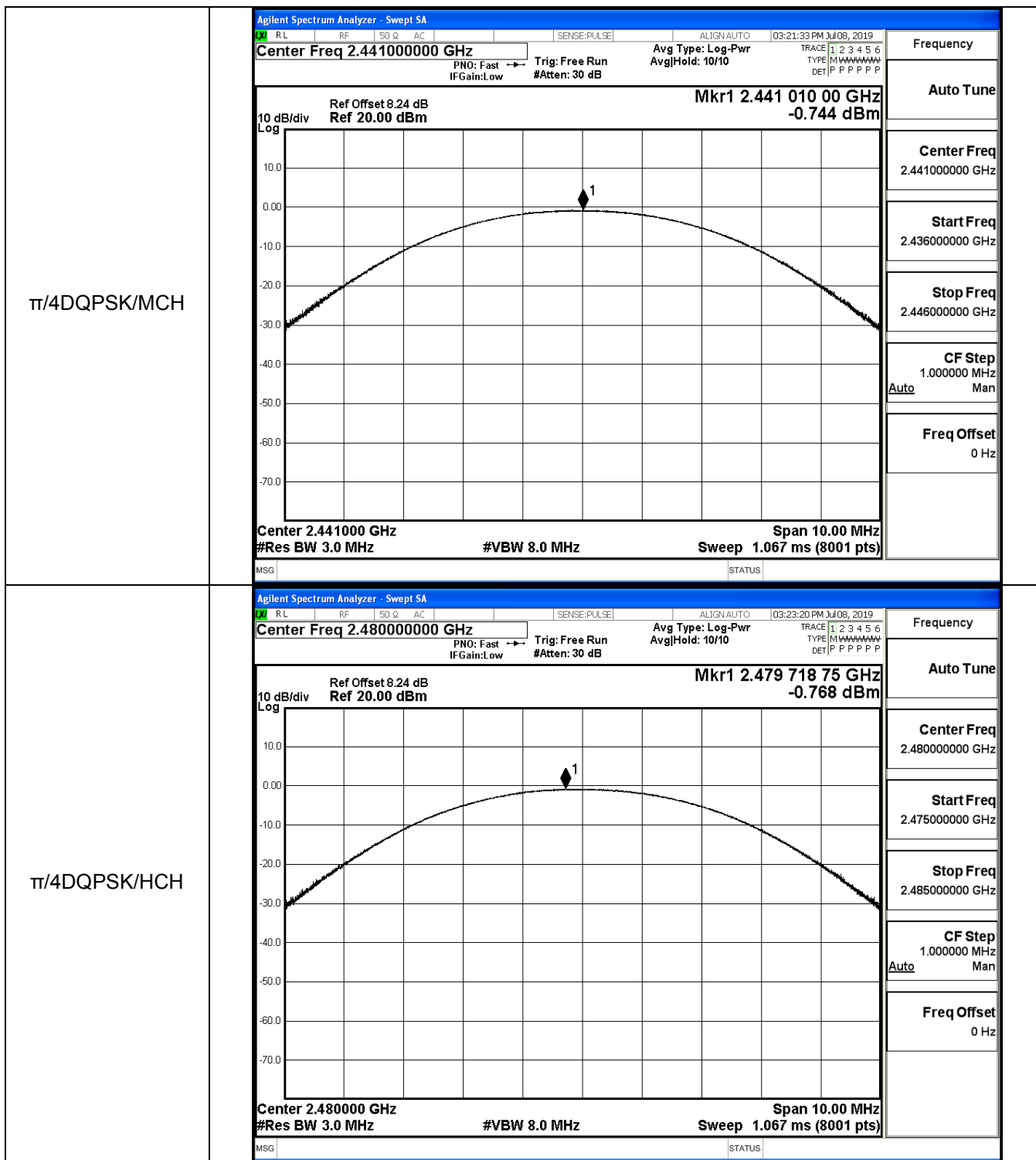


GFSK/MCH

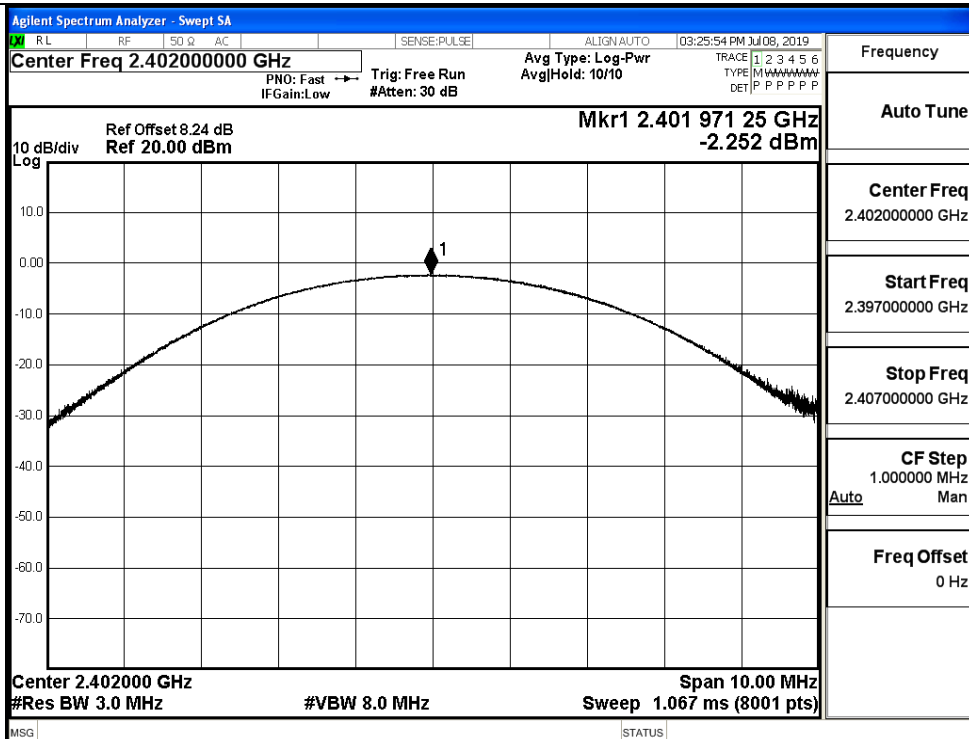


GFSK/HCH

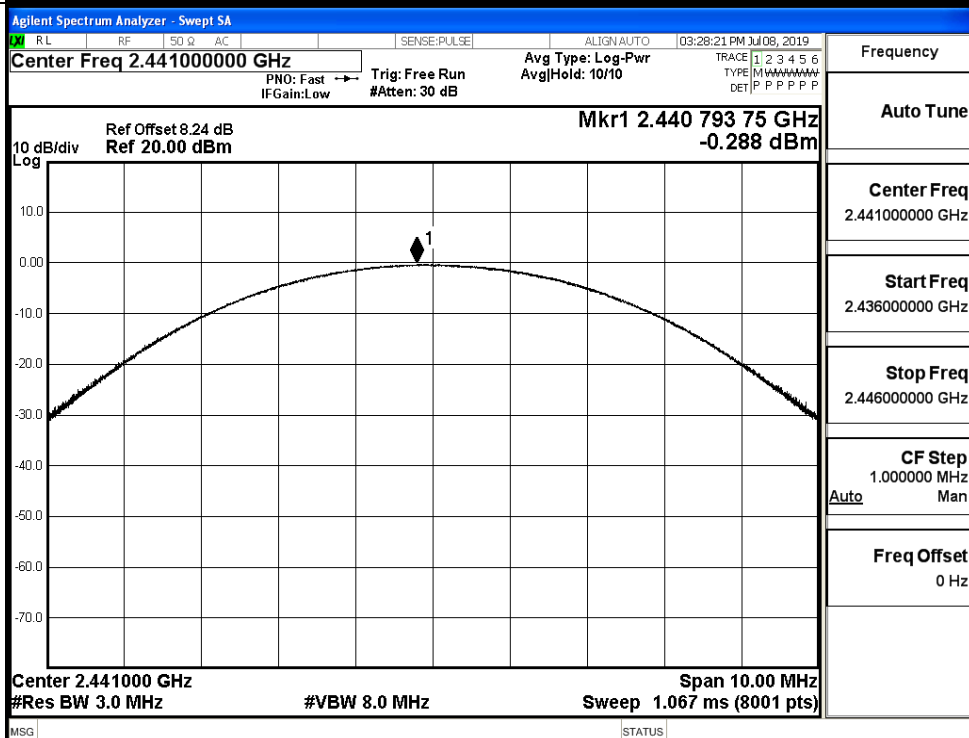
 π /4DQPSK/LCH



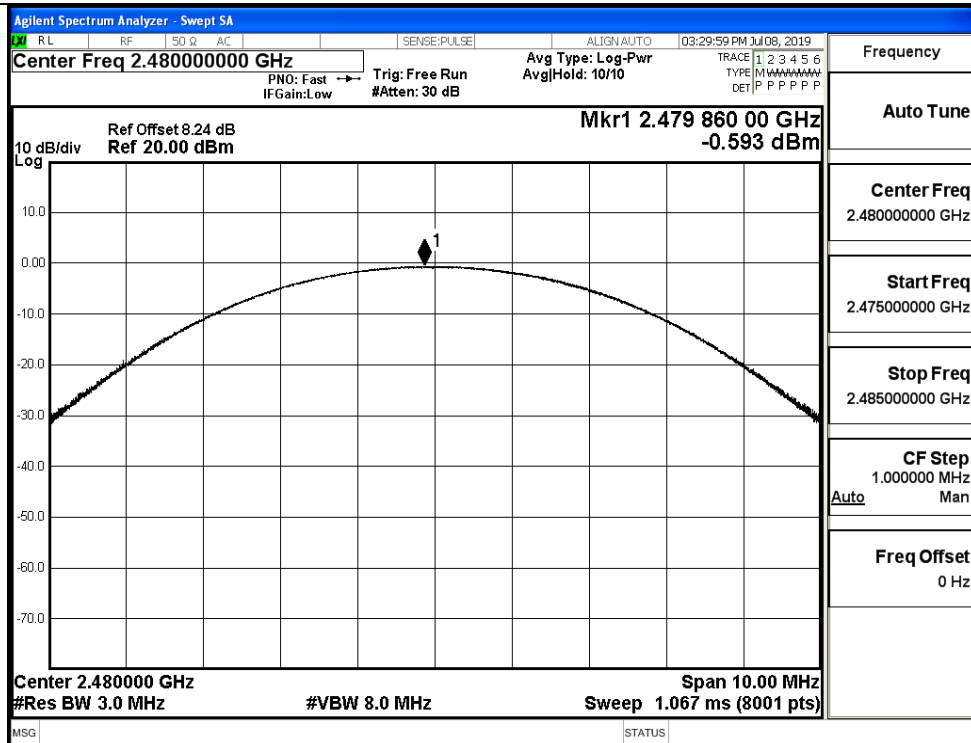
8DPSK/LCH



8DPSK/MCH



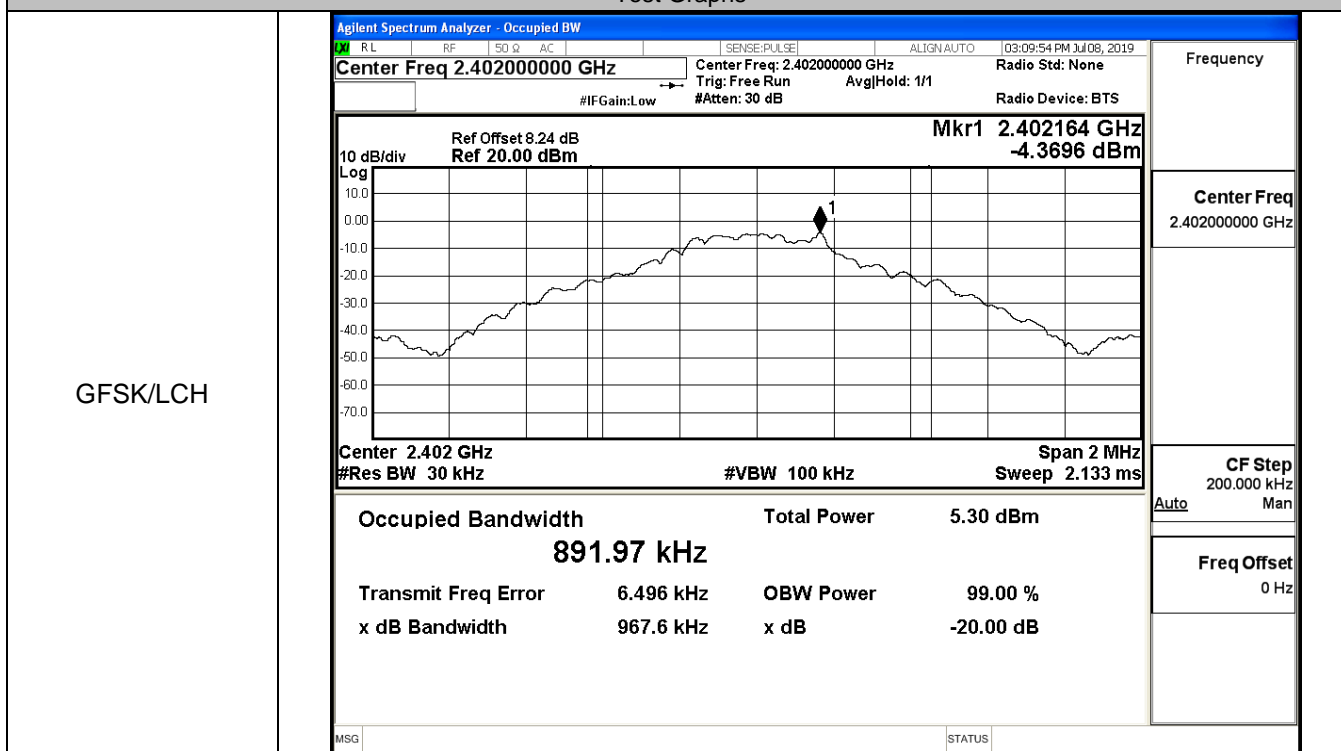
8DPSK/HCH



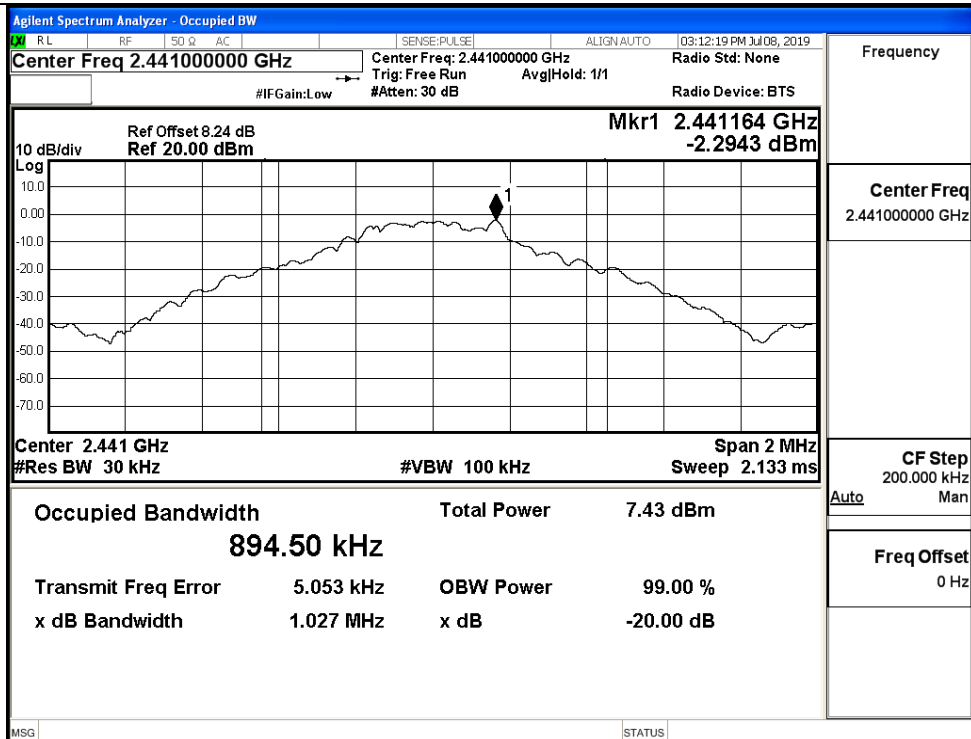
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.9676	Not Specified	PASS
	MCH	1.027	Not Specified	PASS
	HCH	1.034	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.291	Not Specified	PASS
	MCH	1.291	Not Specified	PASS
	HCH	1.290	Not Specified	PASS
8DPSK	LCH	1.296	Not Specified	PASS
	MCH	1.296	Not Specified	PASS
	HCH	1.296	Not Specified	PASS

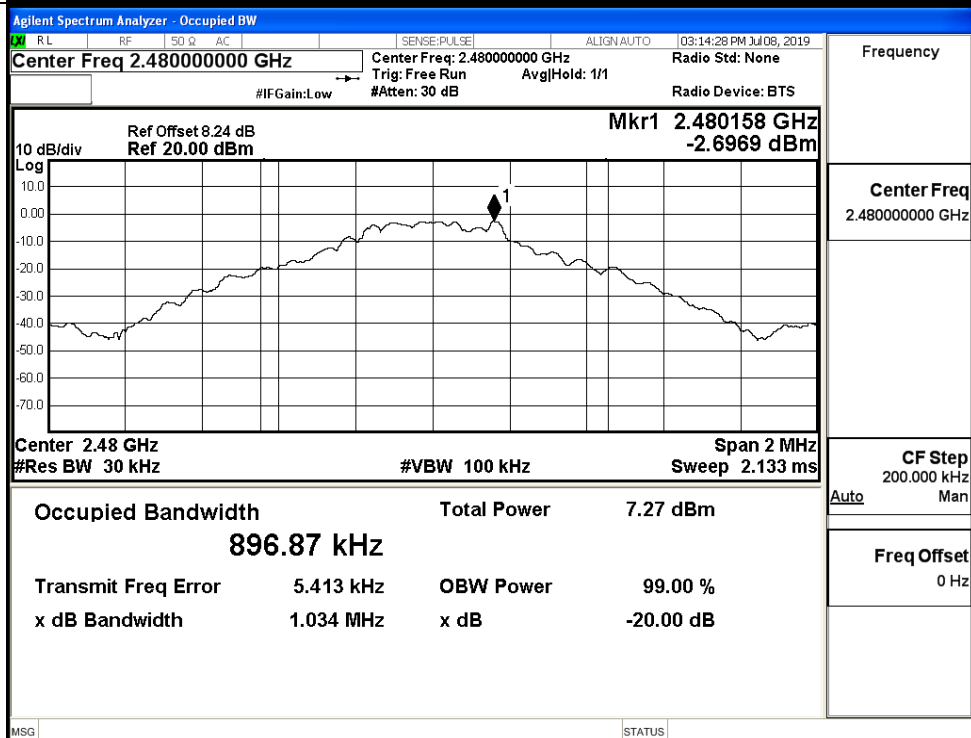
Test Graphs

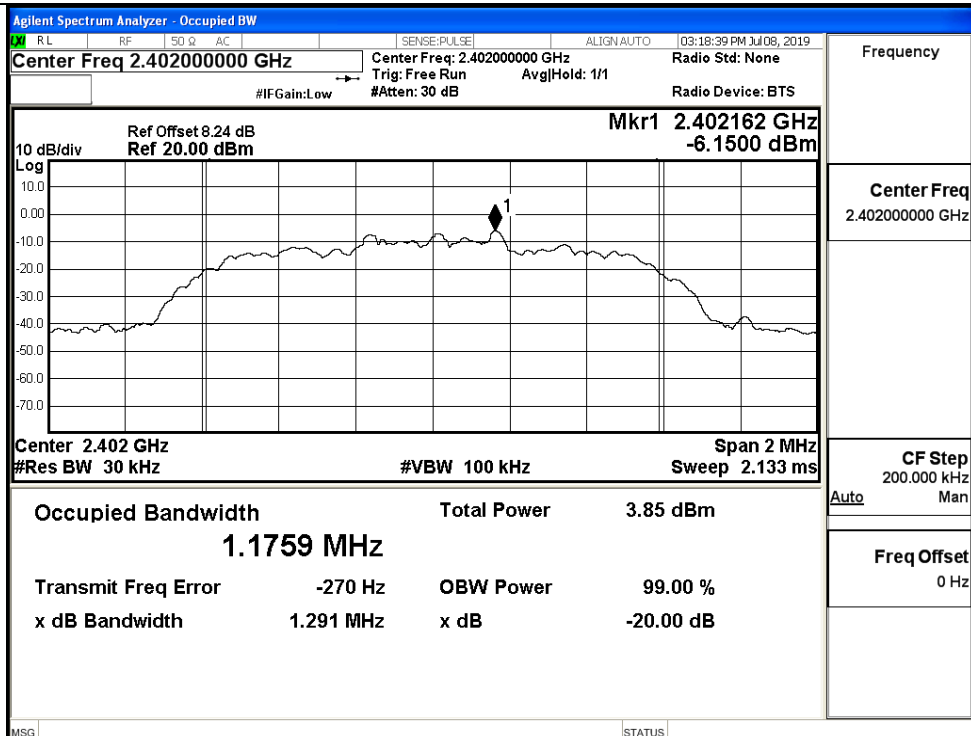
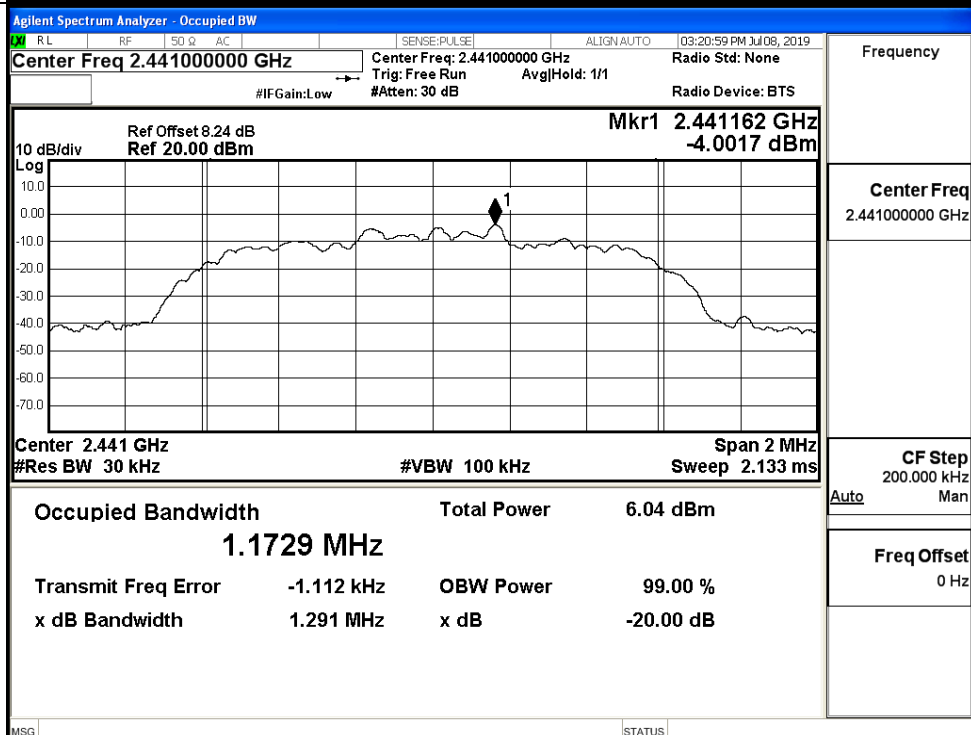


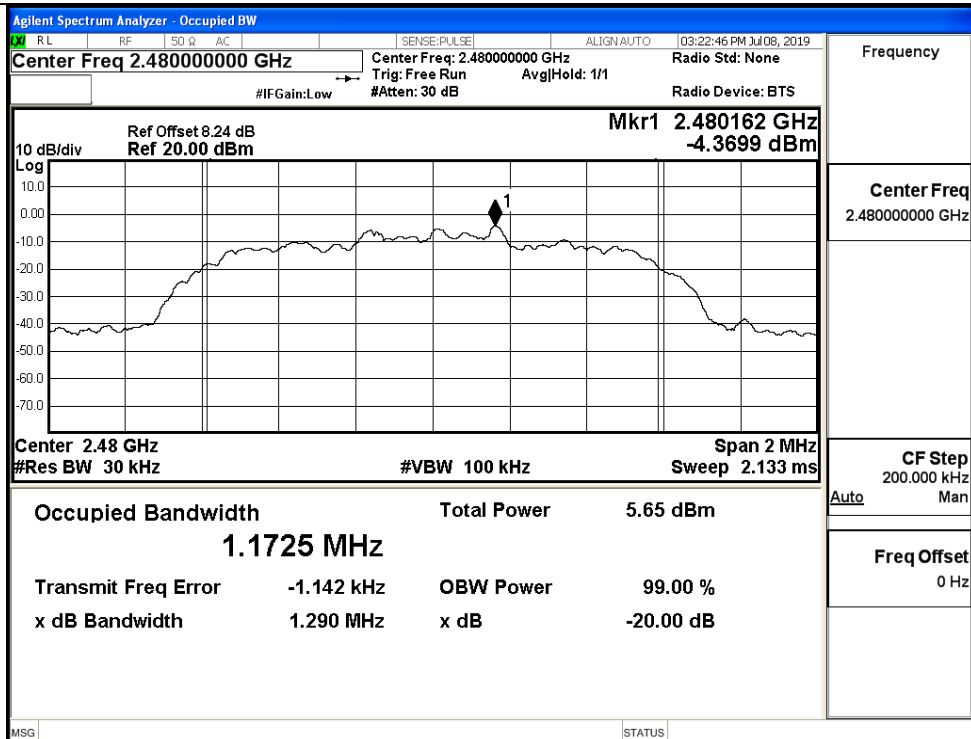
GFSK/MCH



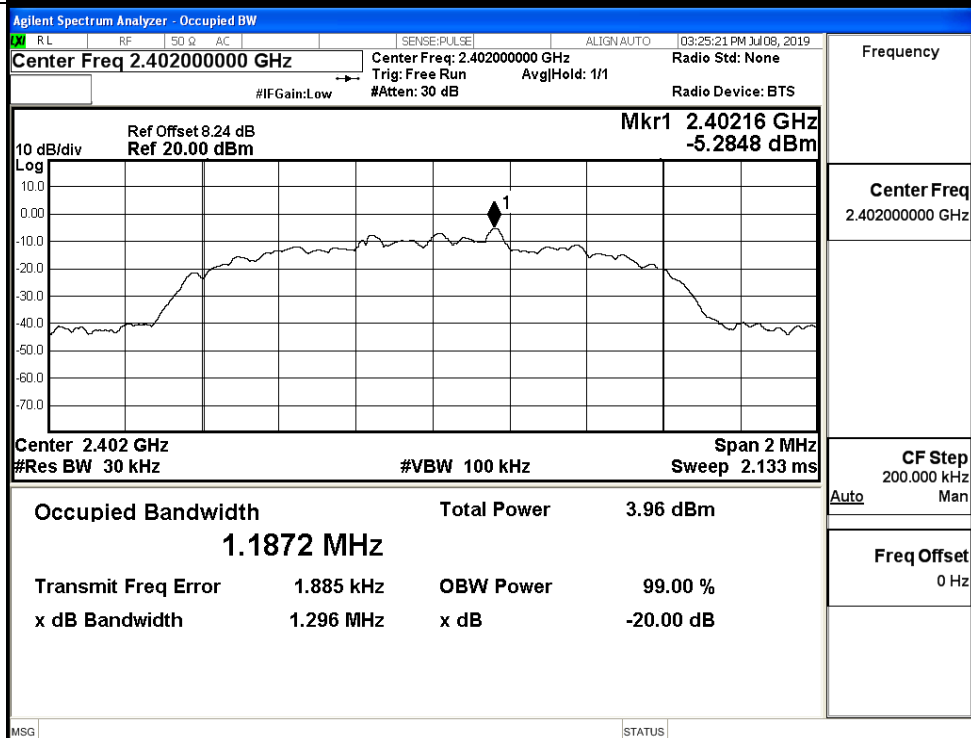
GFSK/HCH



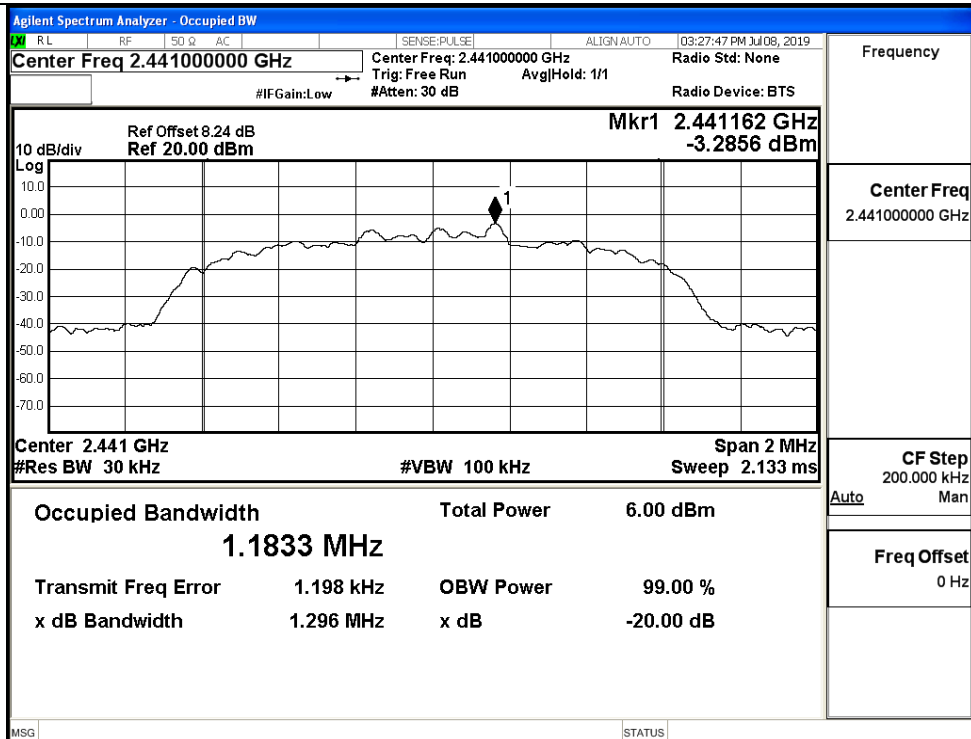
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

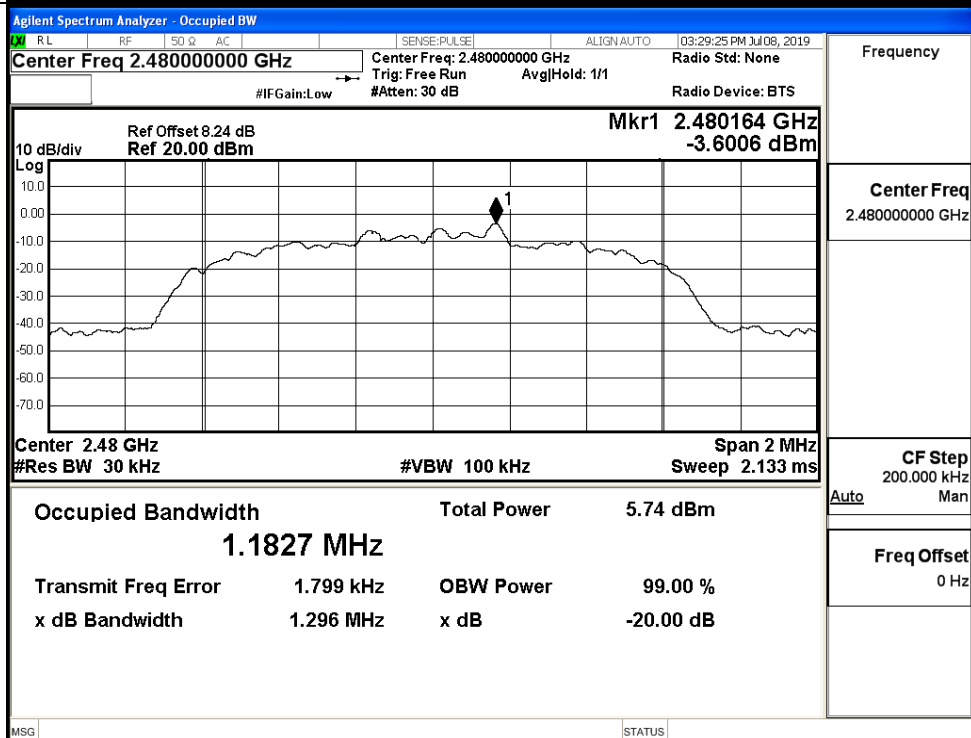
8DPSK/LCH



8DPSK/MCH



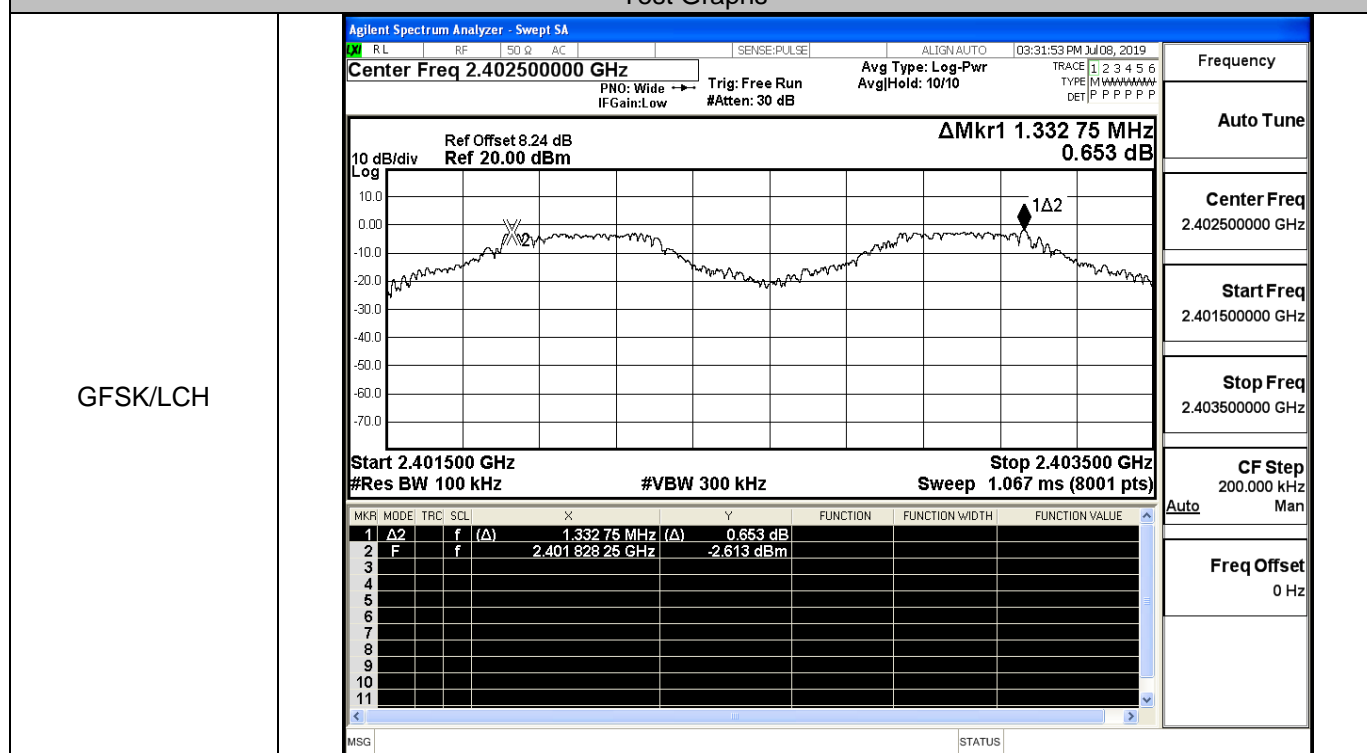
8DPSK/HCH



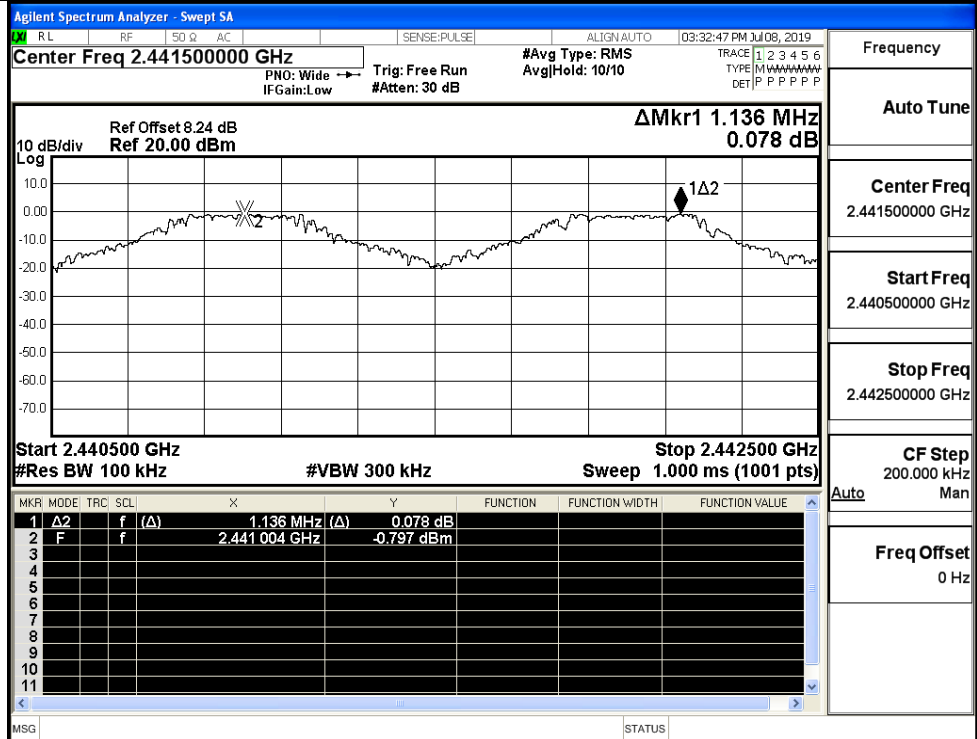
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.333	0.689	PASS
	MCH	1.136	0.689	PASS
	HCH	1.072	0.689	PASS
$\pi/4$ DQPSK	LCH	1.004	0.861	PASS
	MCH	1.018	0.861	PASS
	HCH	1.000	0.861	PASS
8DPSK	LCH	0.912	0.864	PASS
	MCH	1.062	0.864	PASS
	HCH	1.006	0.864	PASS

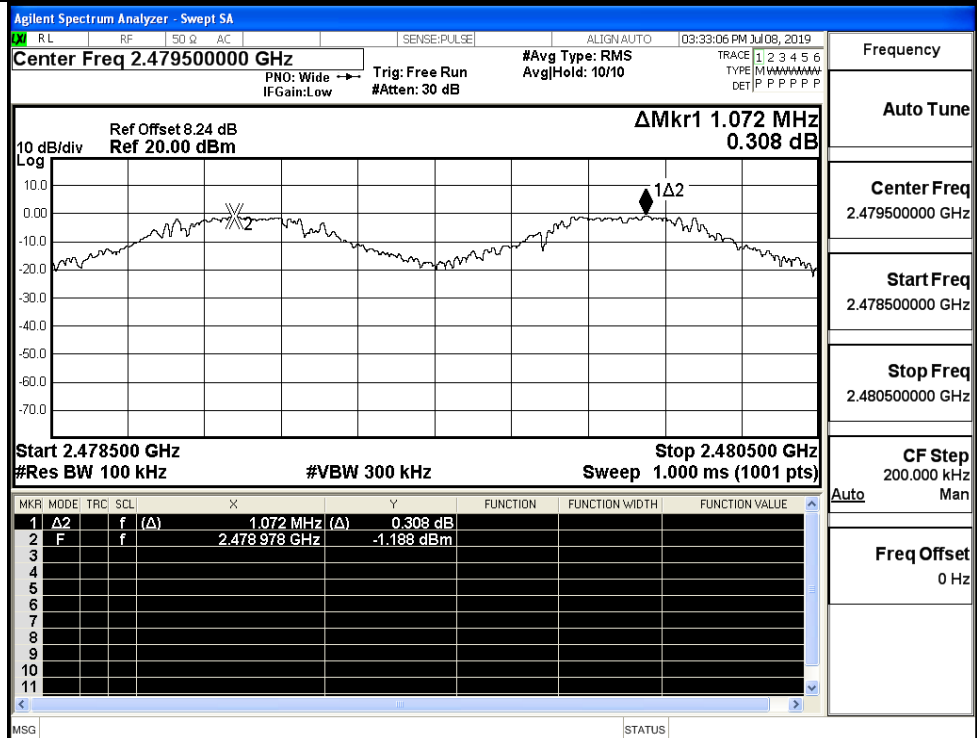
Test Graphs

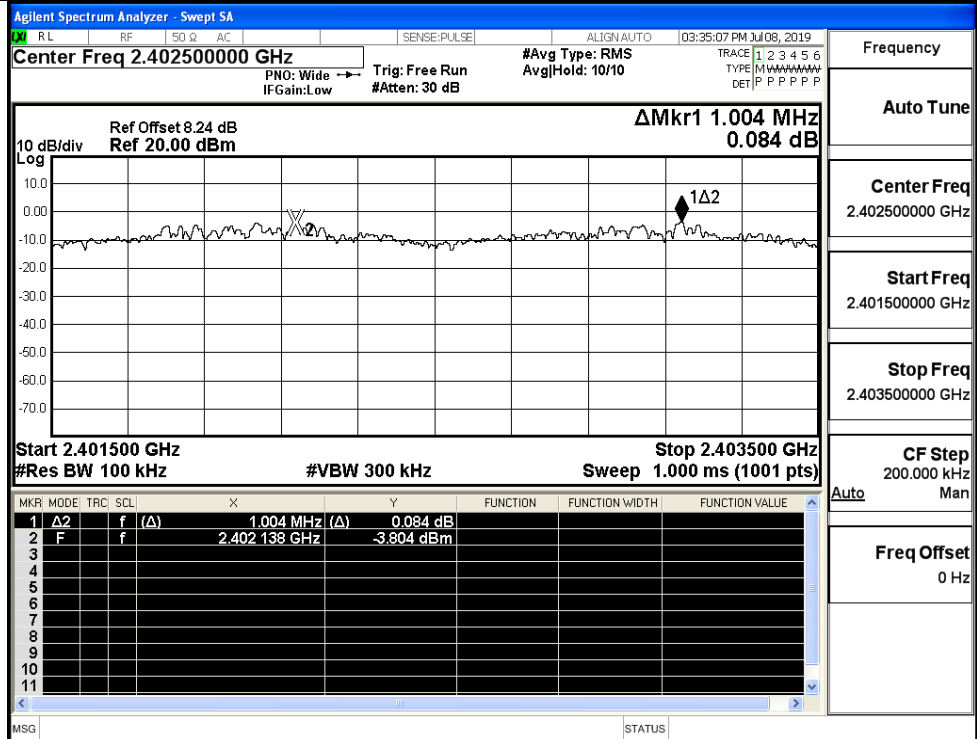
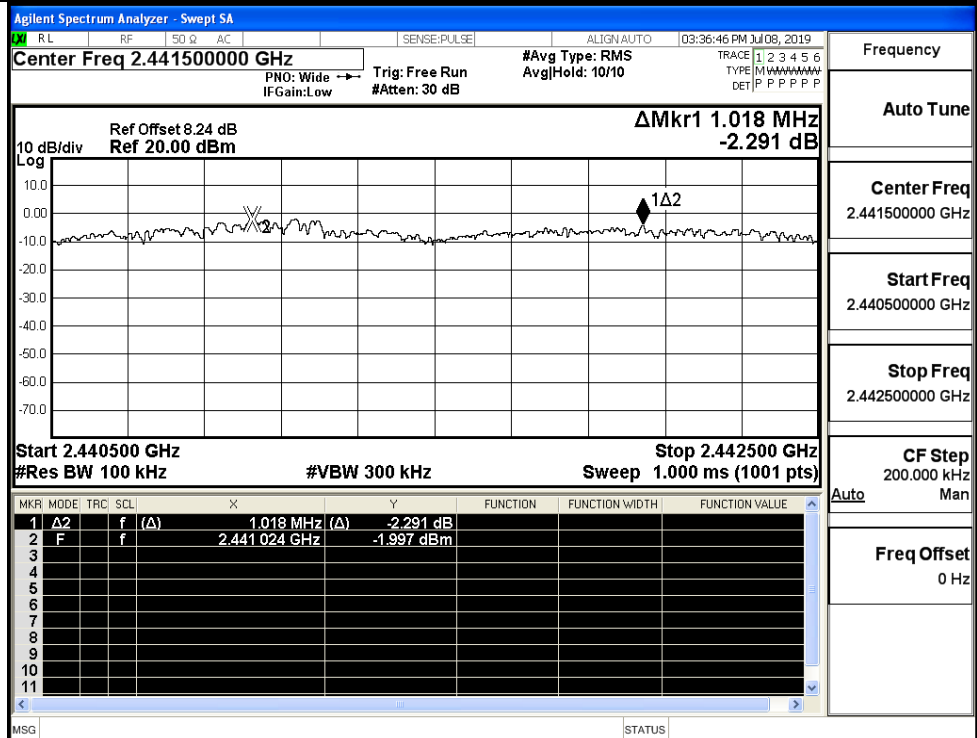


GFSK/MCH



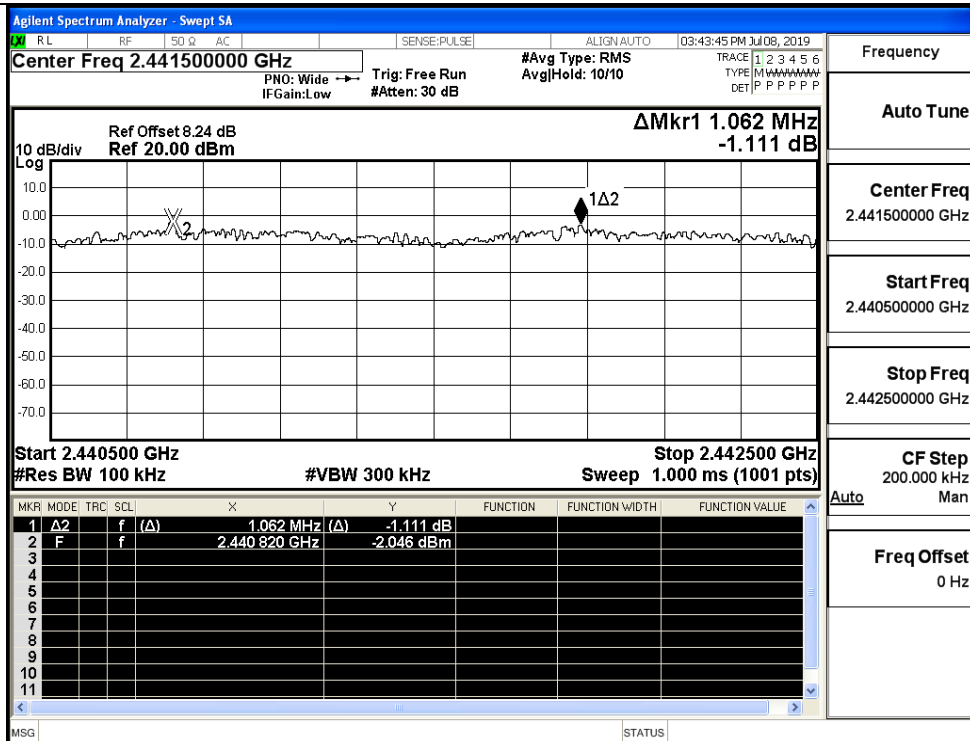
GFSK/HCH



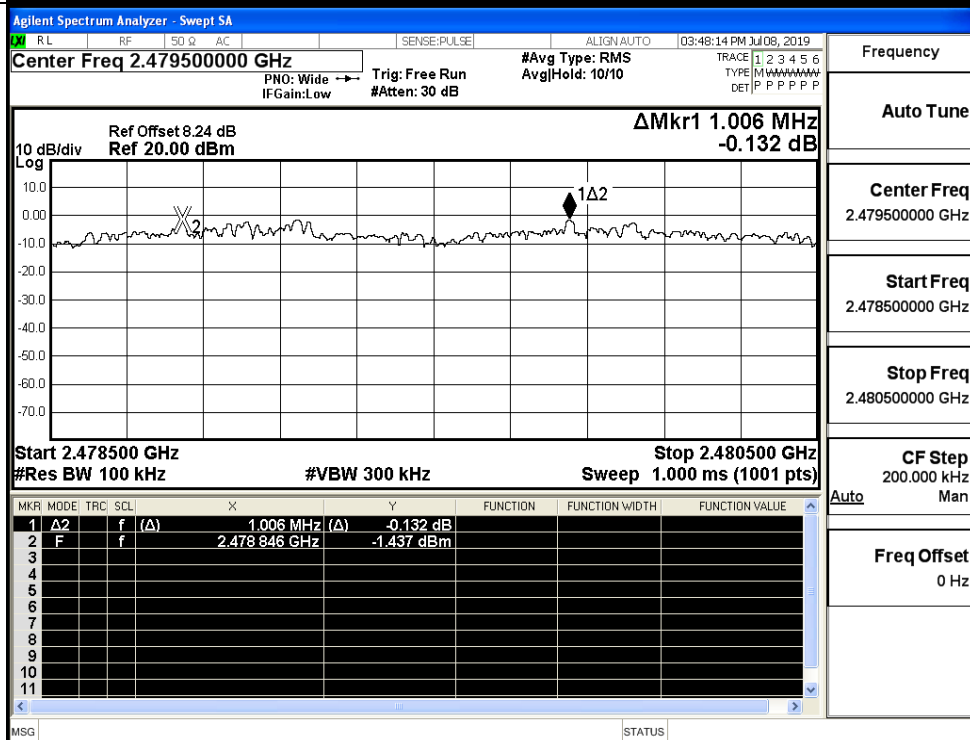
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

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8DPSK/MCH



8DPSK/HCH

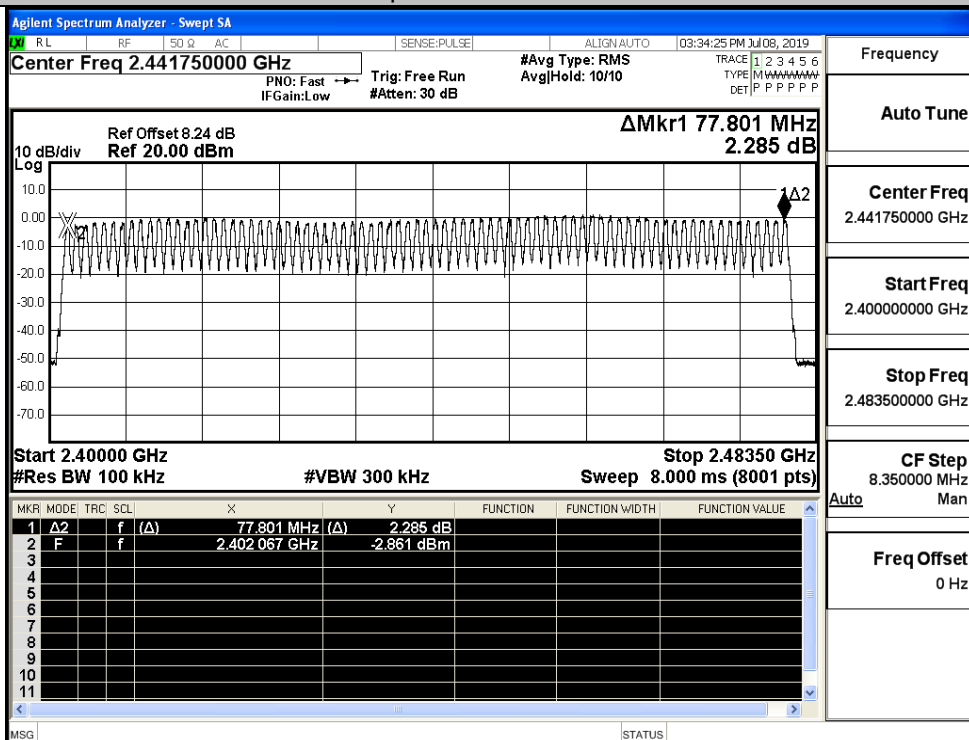
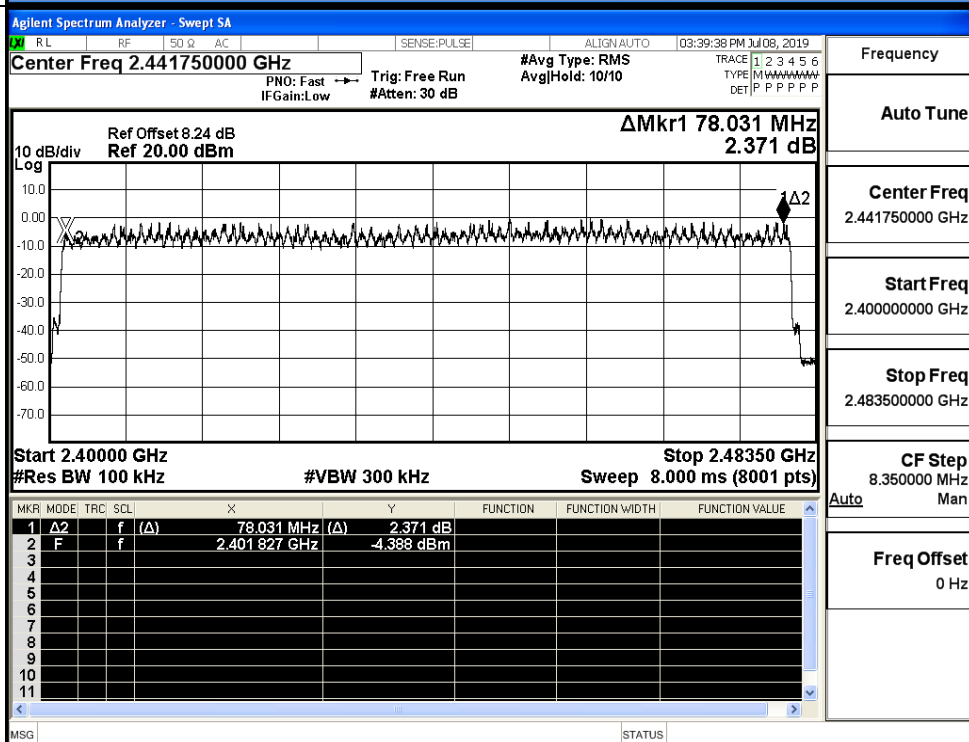


A.4 Hopping Channel Number

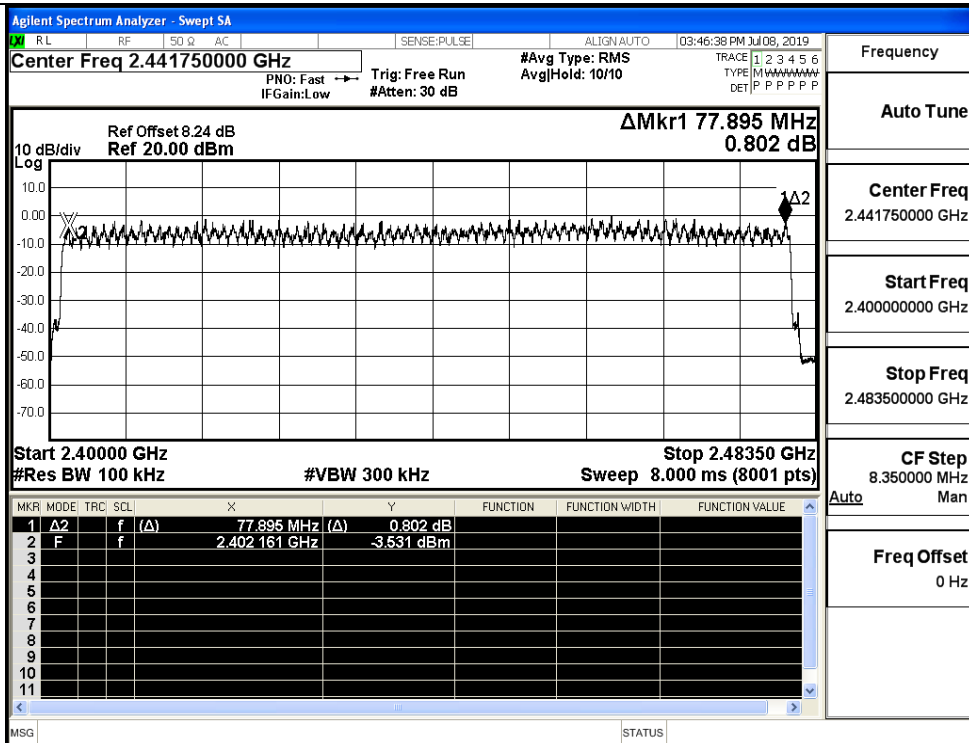
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS
$\pi/4$ DQPSK	Hop	79	>=15	PASS
8DPSK	Hop	79	>=15	PASS

Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

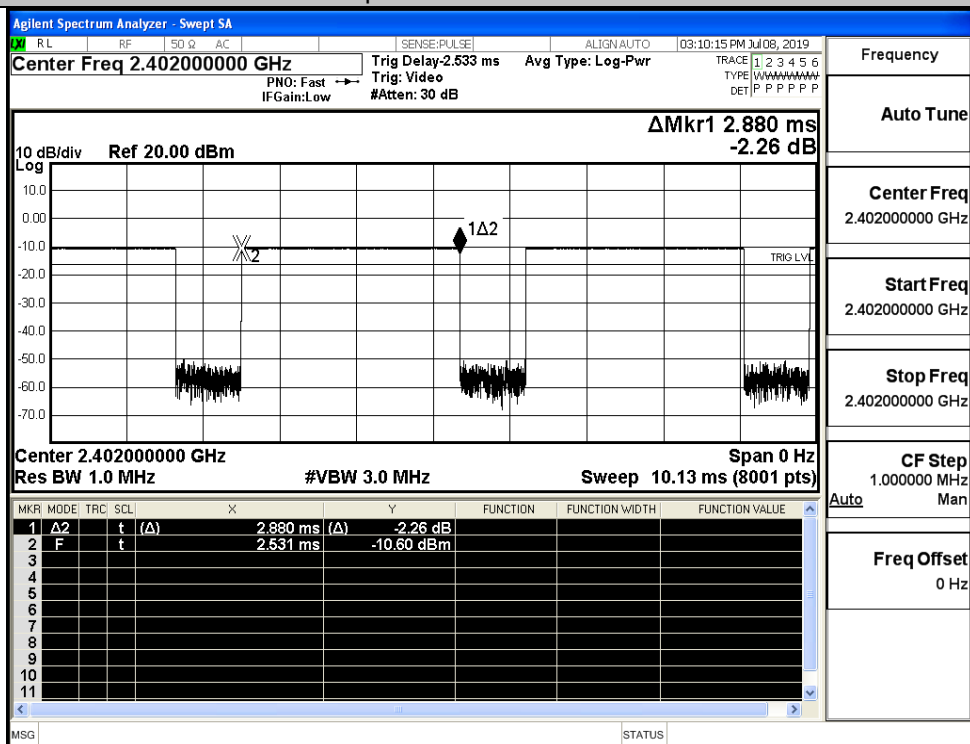


A.5 Dwell Time

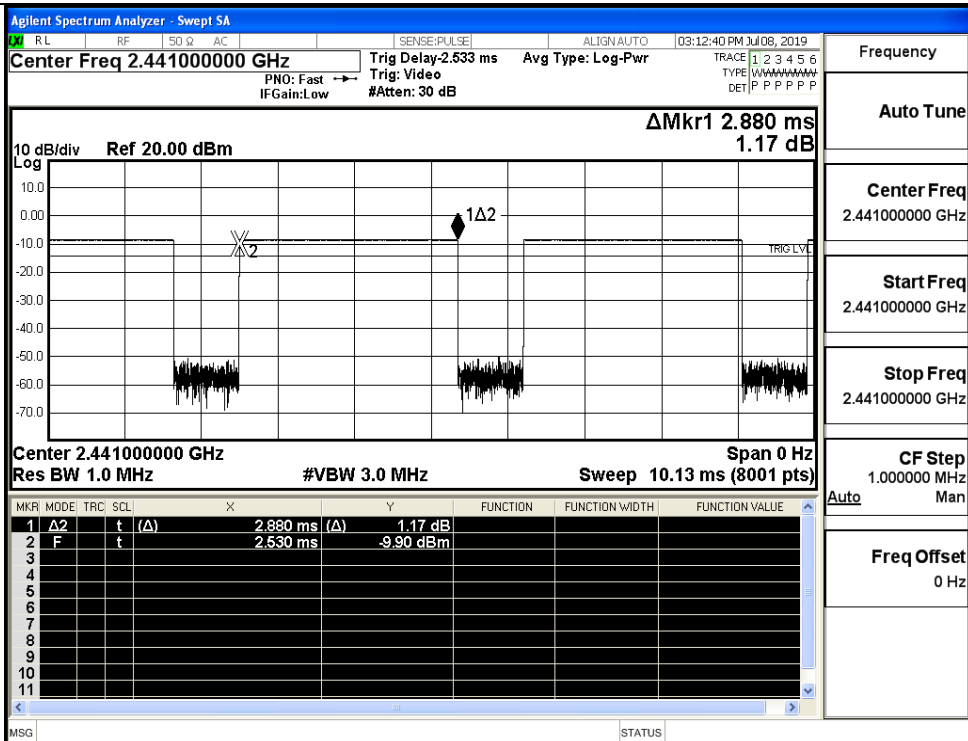
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88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

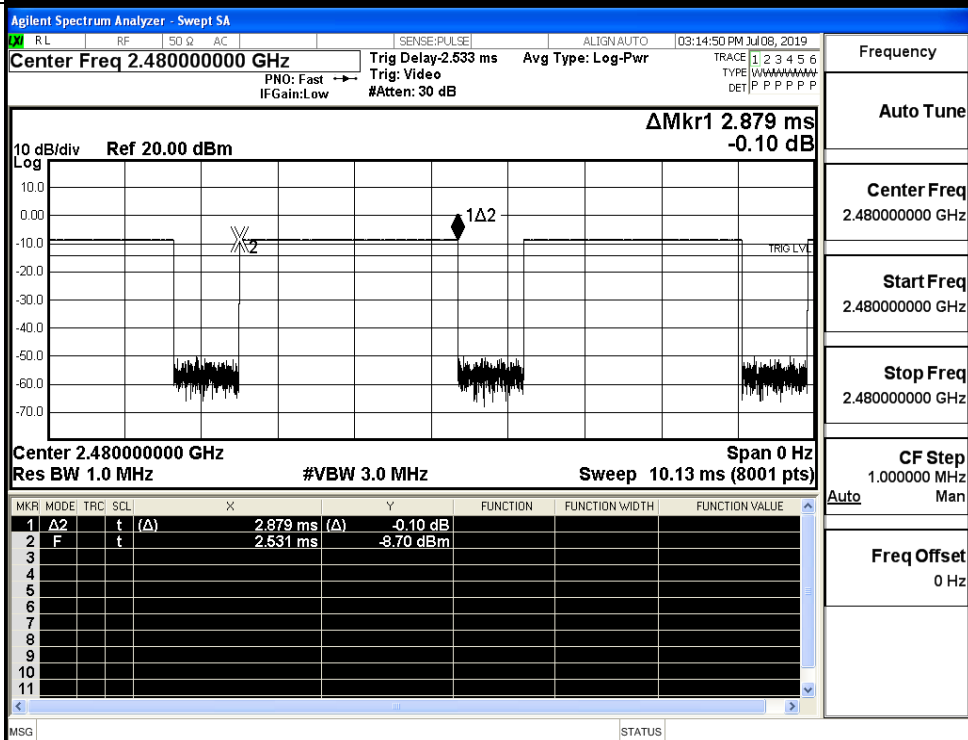
GFSK_DH5/LCH



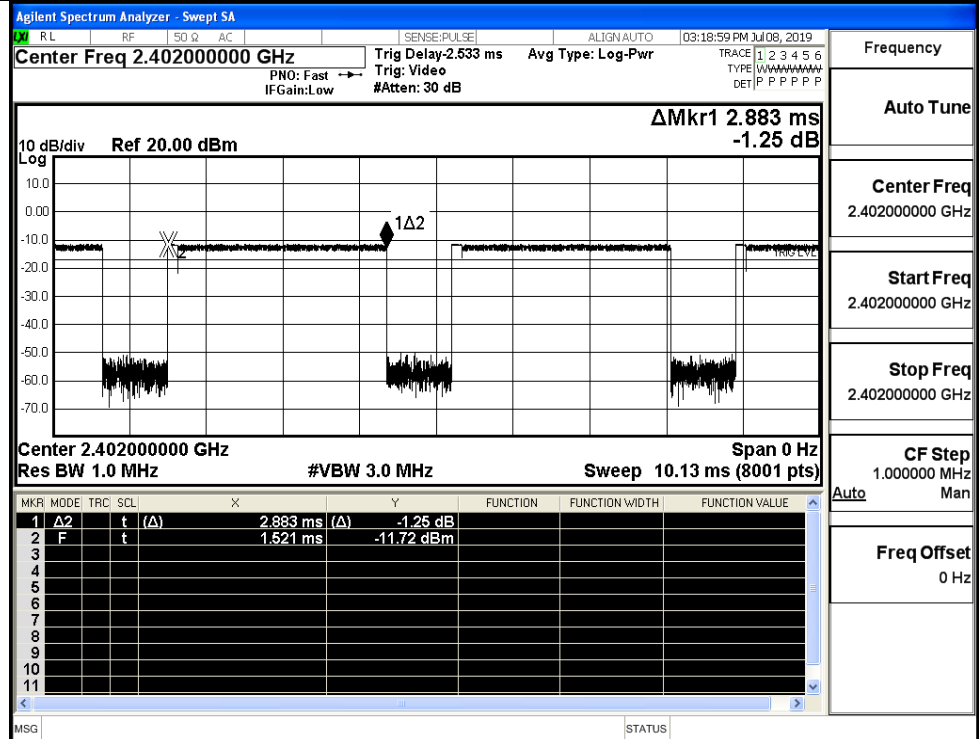
GFSK_DH5/MCH



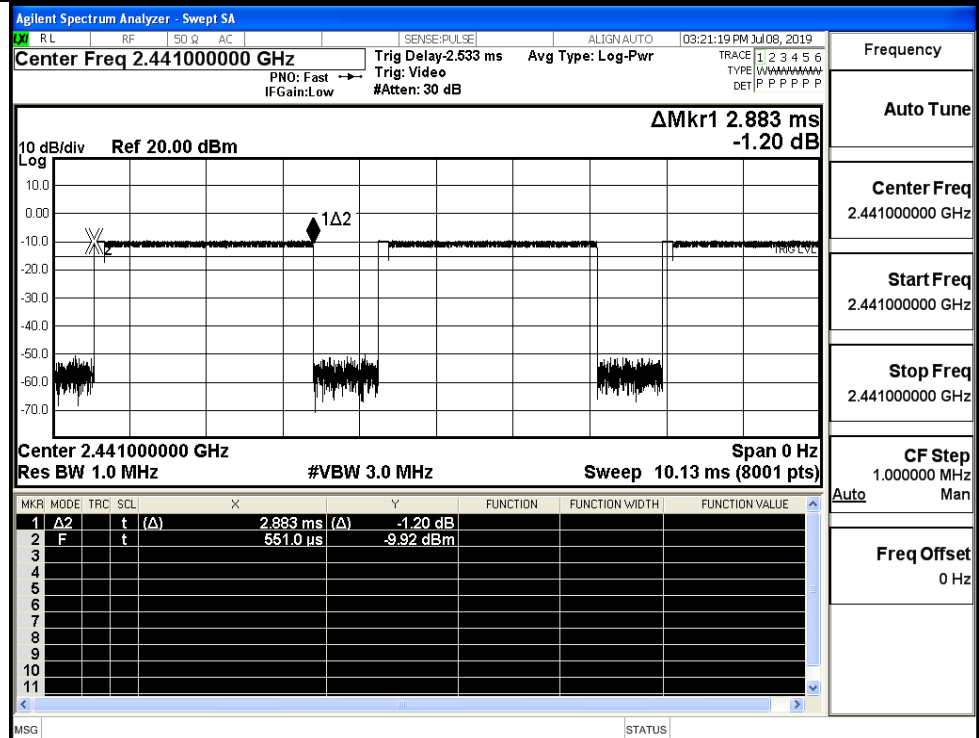
GFSK_DH5/HCH



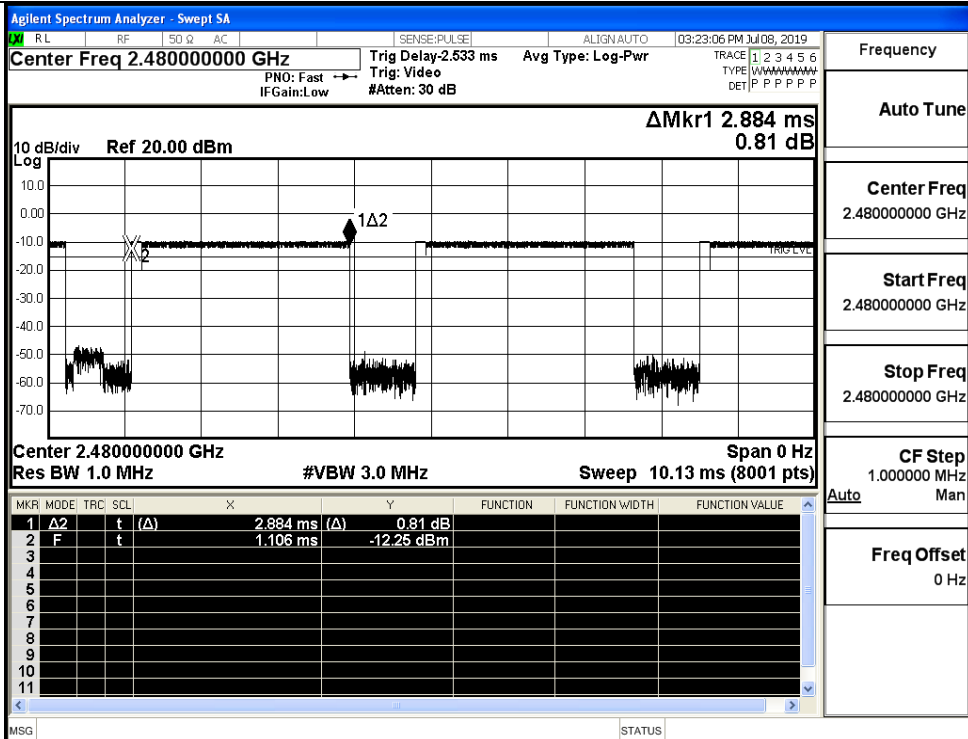
$\pi/4$ DQPSK
_2DH5/LCH



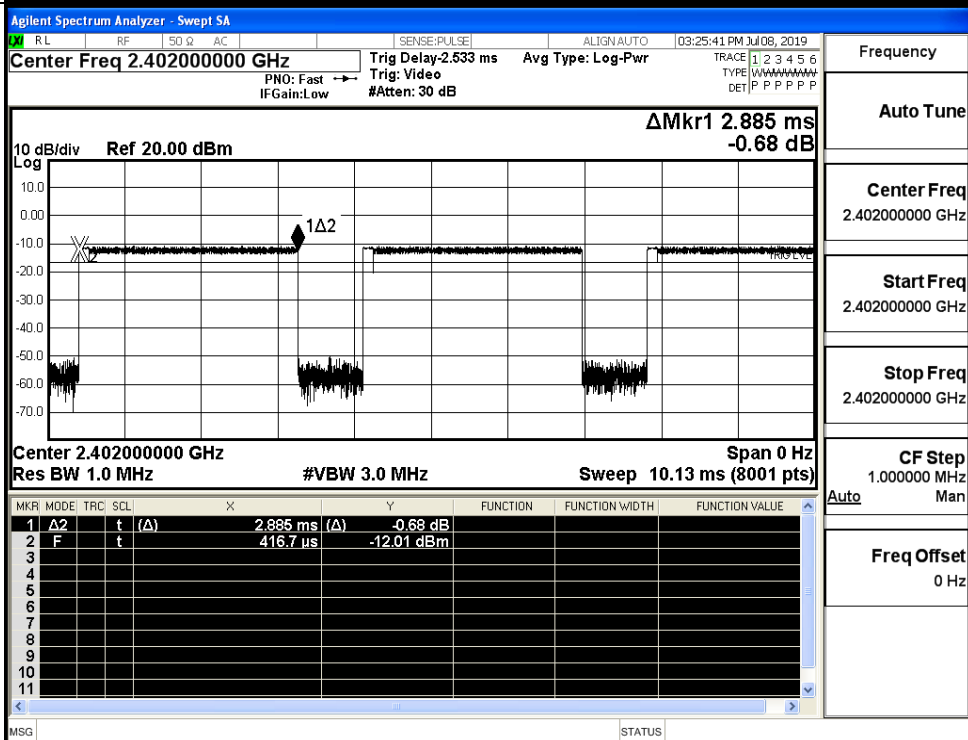
$\pi/4$ DQPSK
_2DH5/MCH



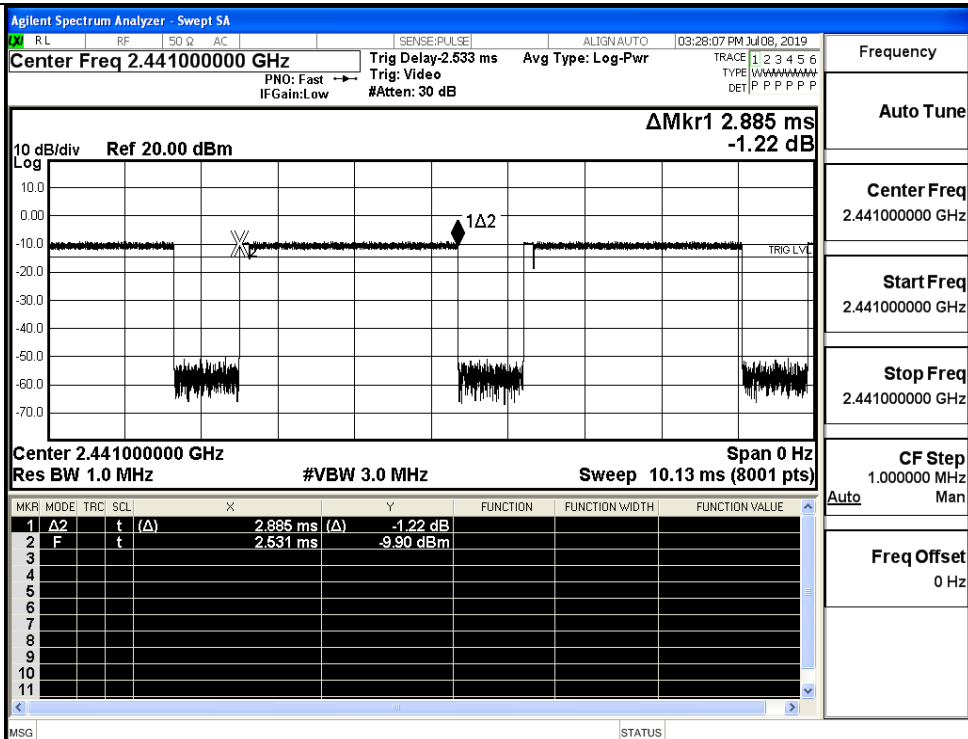
$\pi/4$ DQPSK
_2DH5/HCH



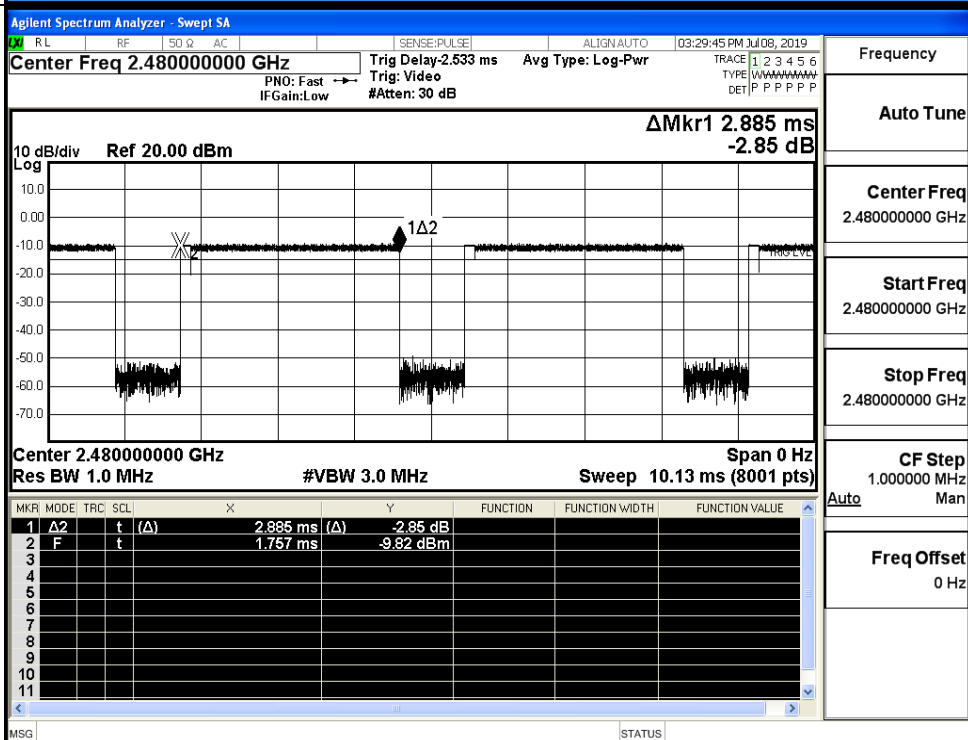
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



8DPSK_3DH5/HCH

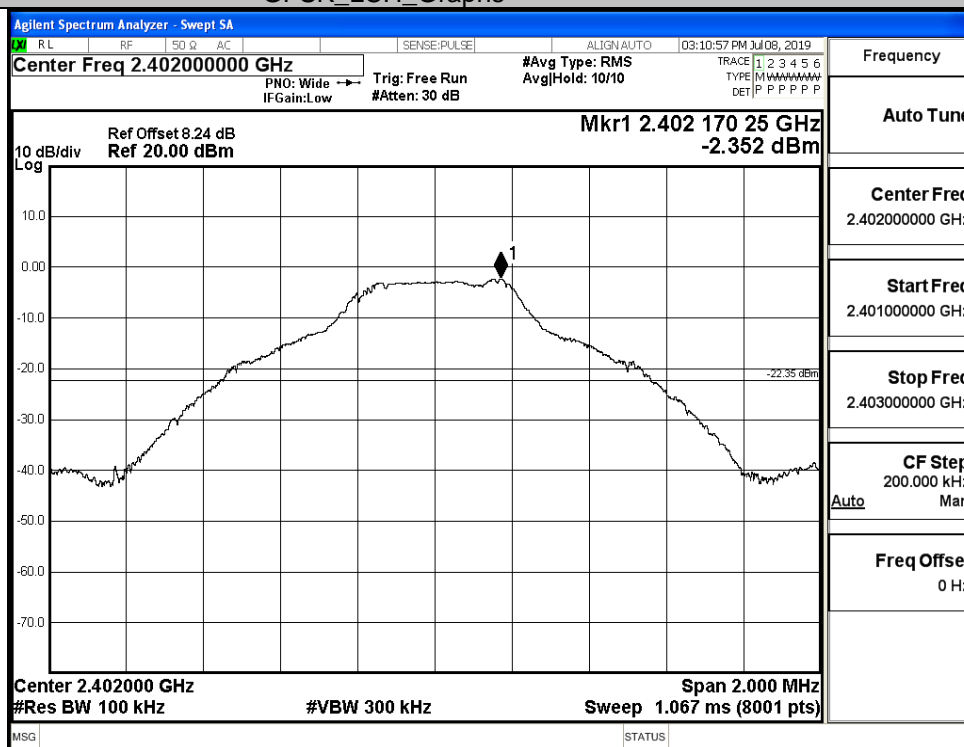


A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-2.352	-44.996	-22.352	PASS
	MCH	-0.153	-44.364	-20.153	PASS
	HCH	-0.344	-44.621	-20.344	PASS
$\pi/4$ DQPSK	LCH	-3.603	-44.550	-23.603	PASS
	MCH	-1.662	-44.841	-21.662	PASS
	HCH	-1.741	-44.521	-21.741	PASS
8DPSK	LCH	-3.704	-44.092	-23.704	PASS
	MCH	-1.404	-44.848	-21.404	PASS
	HCH	-1.674	-44.342	-21.674	PASS

GFSK_LCH_Graphs

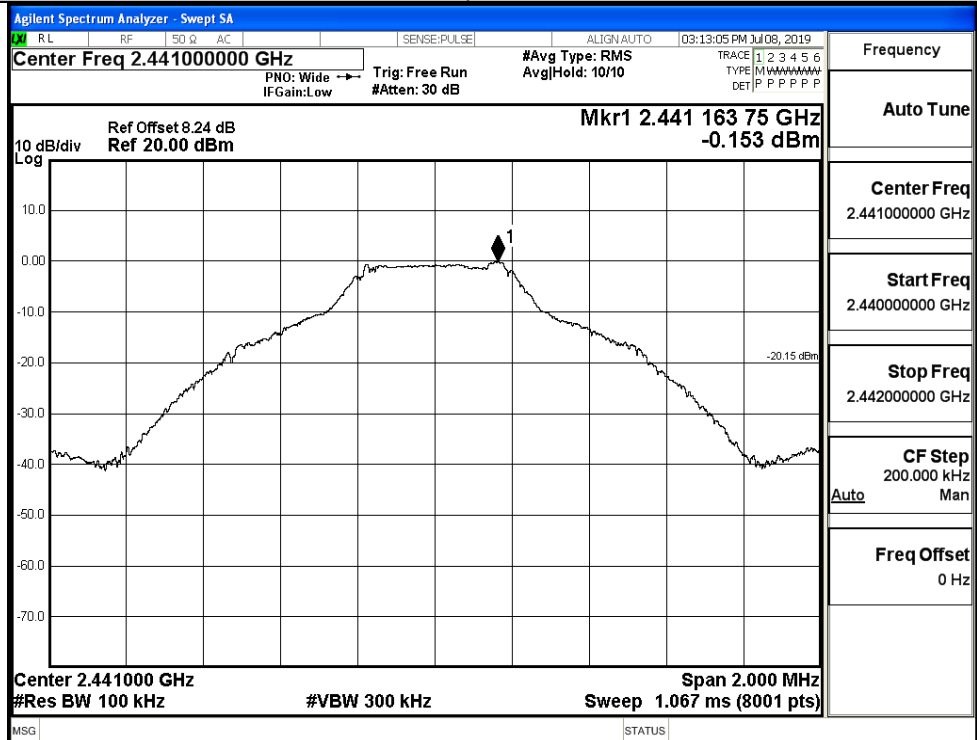
Pref



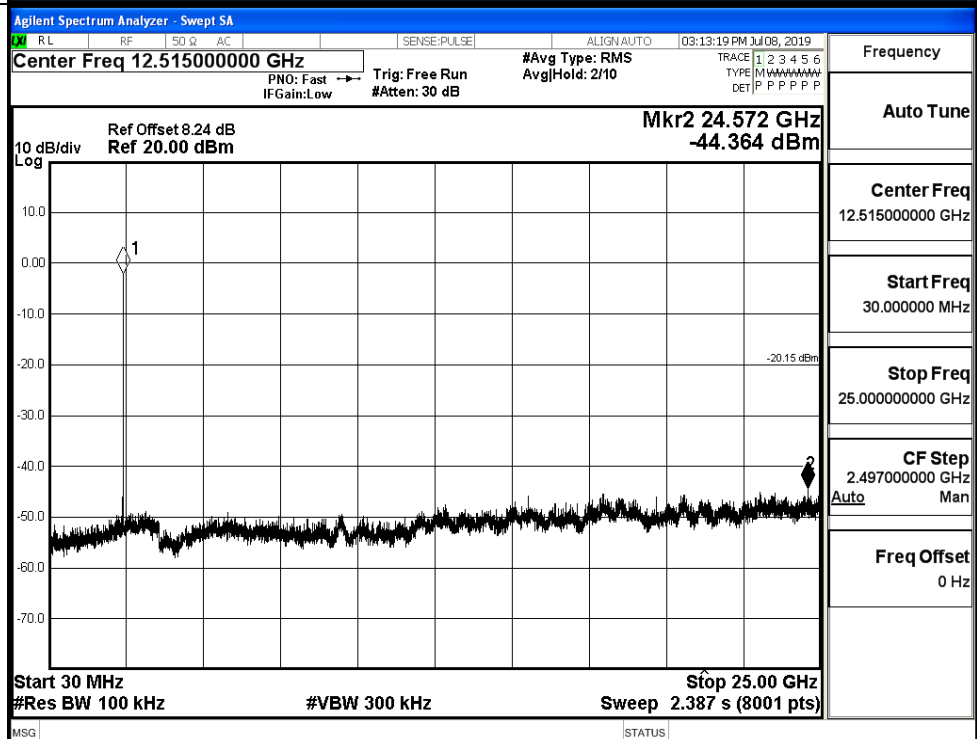


GFSK_MCH_Graphs

Pref

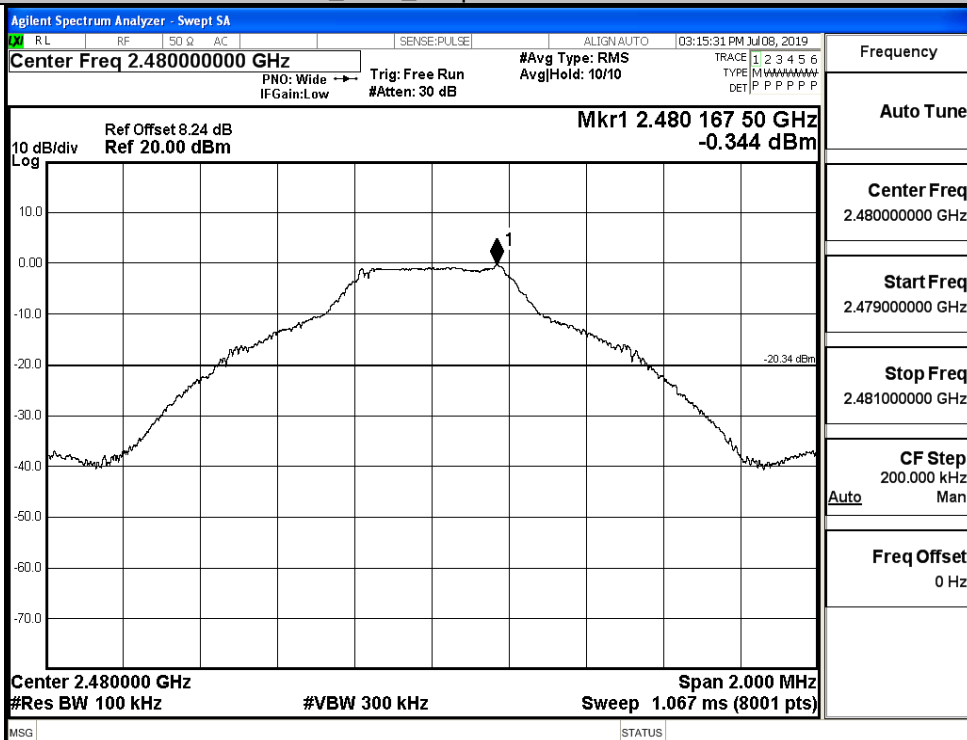


Puw

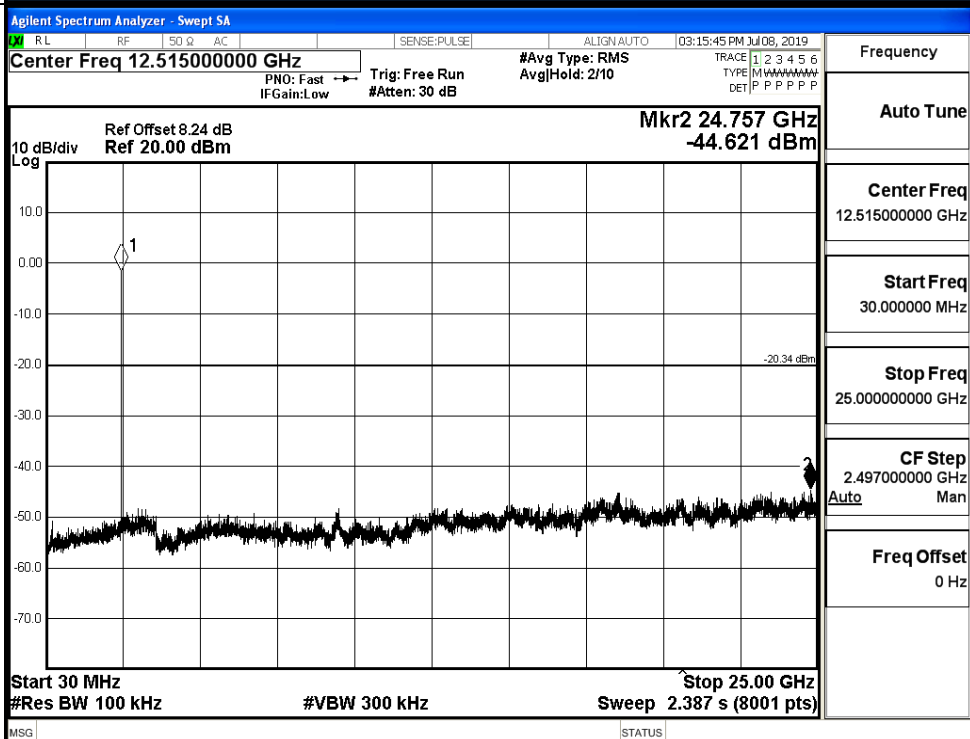


GFSK_HCH_Graphs

Pref

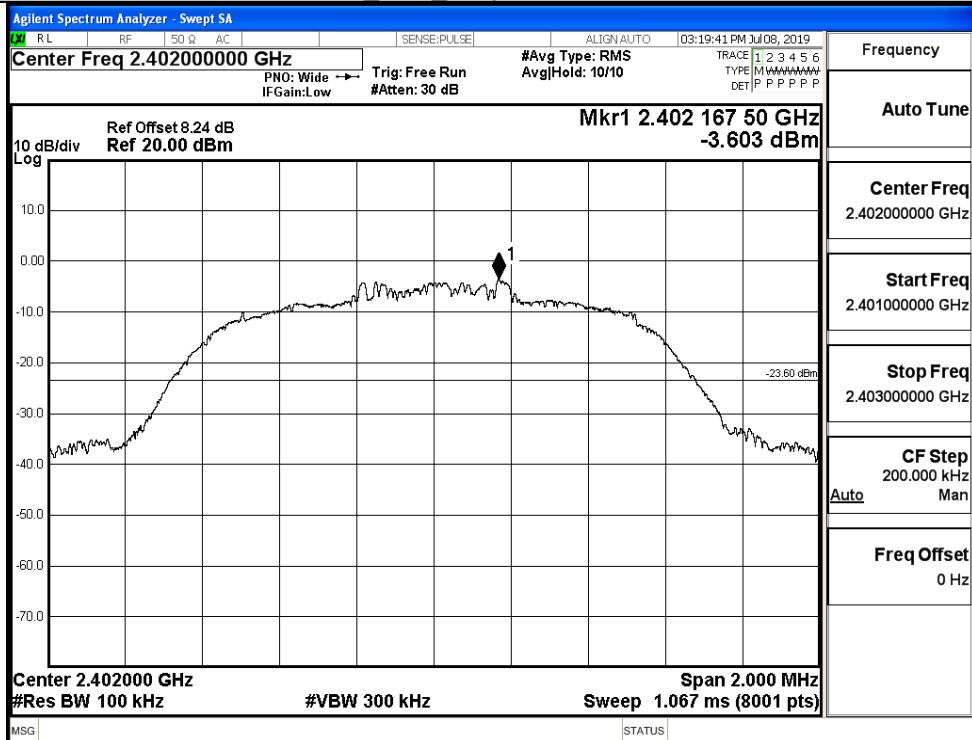


Puw

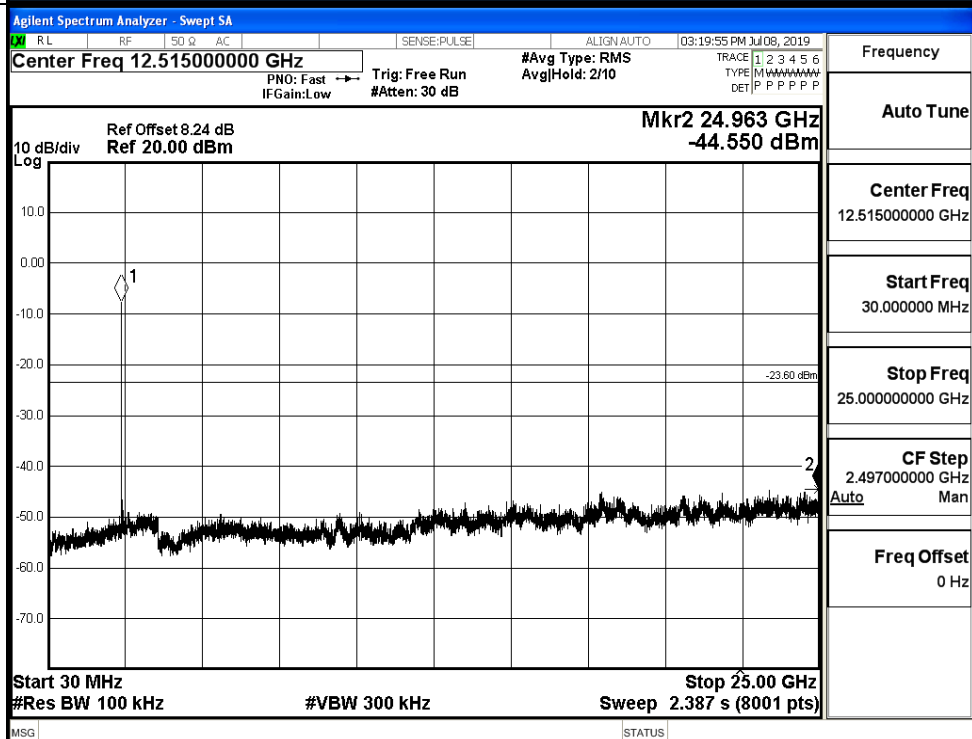


$\pi/4$ DQPSK_LCH_Graphs

Pref

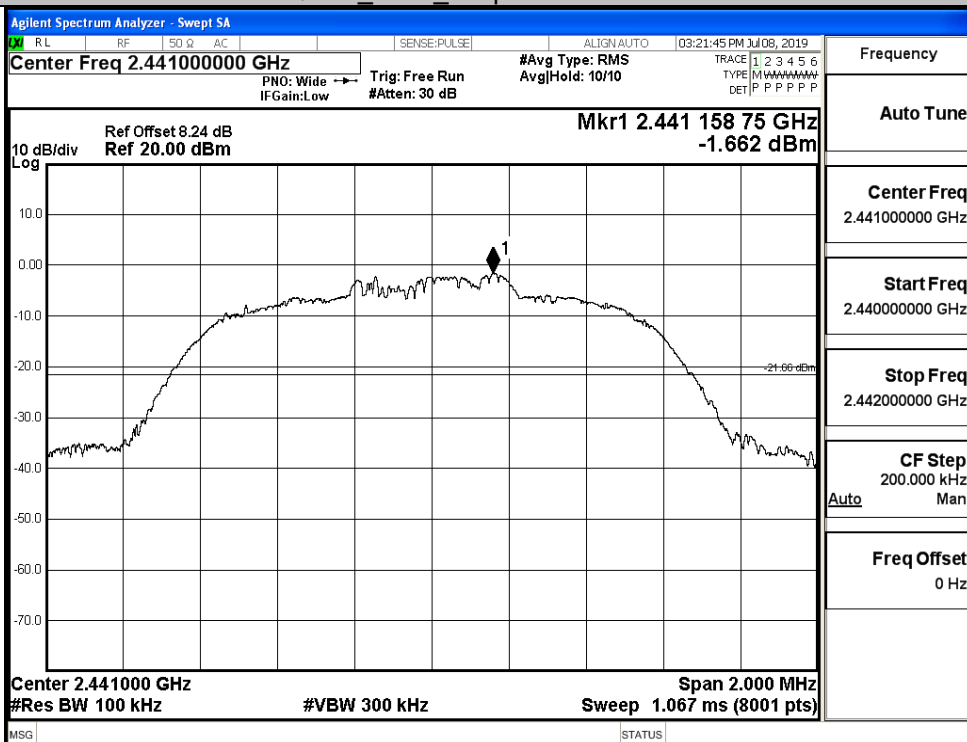


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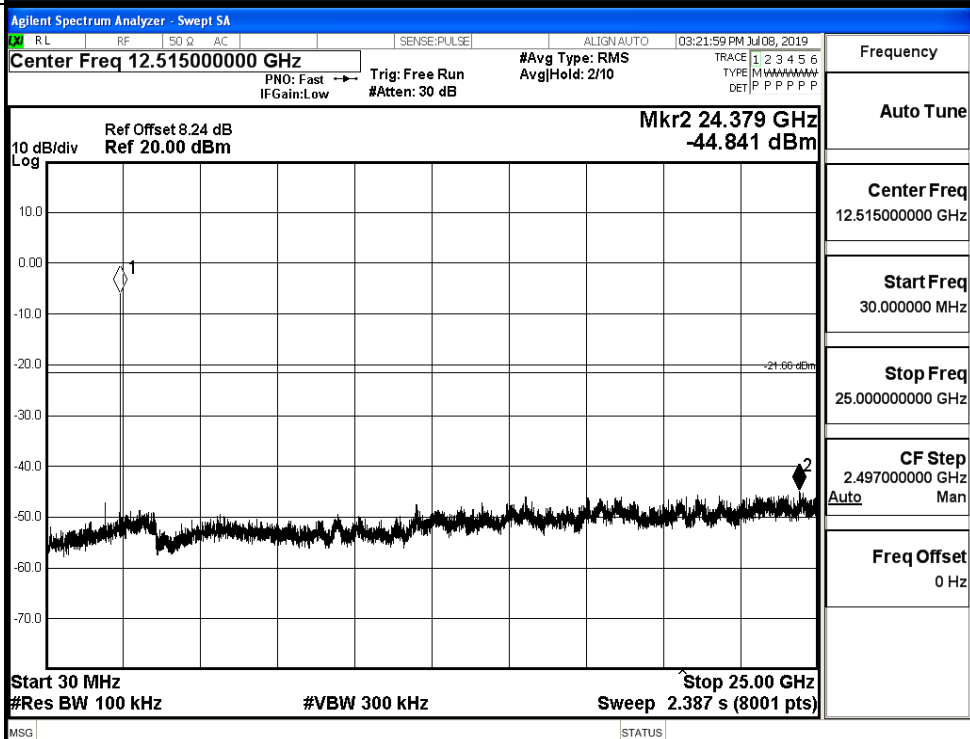


π /4DQPSK_MCH_Graphs

Pref

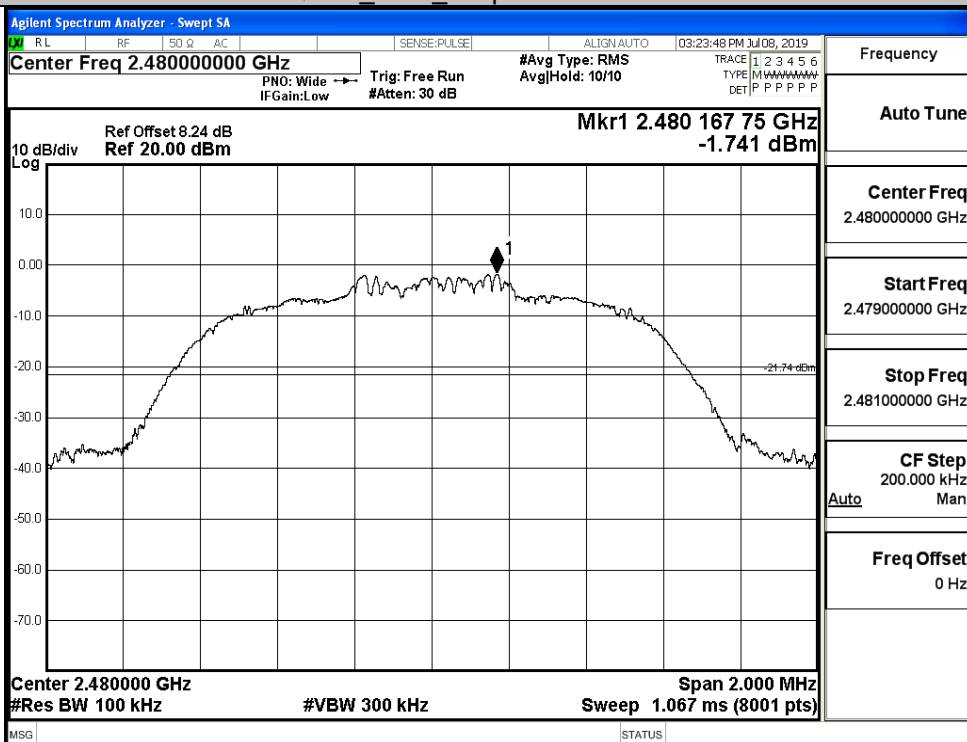


Puw

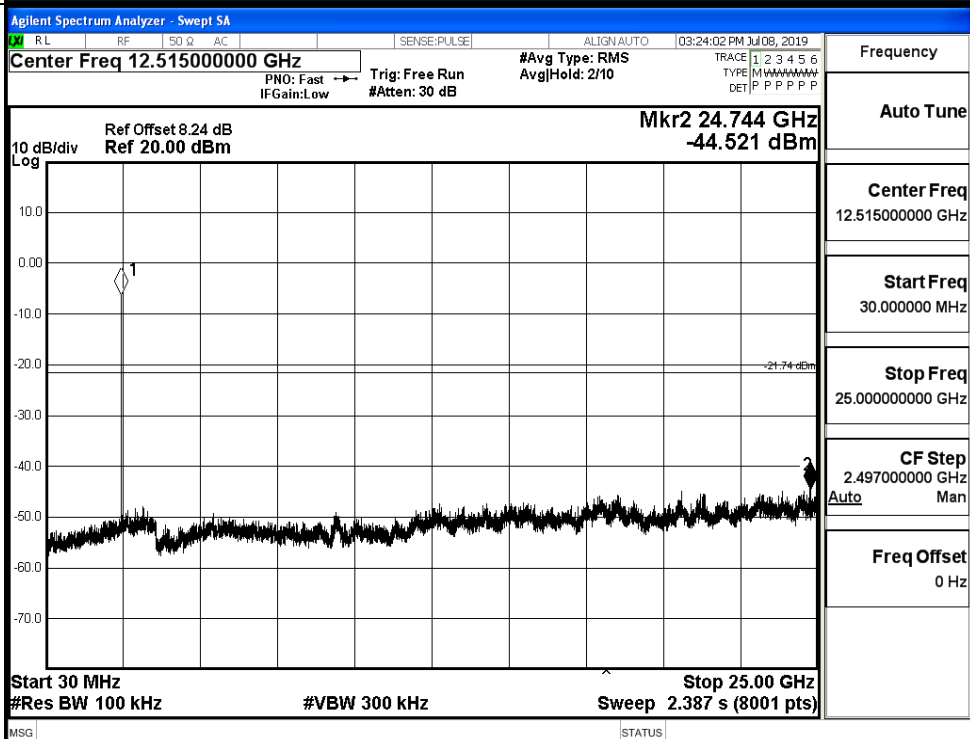


π /4DQPSK_HCH_Graphs

Pref

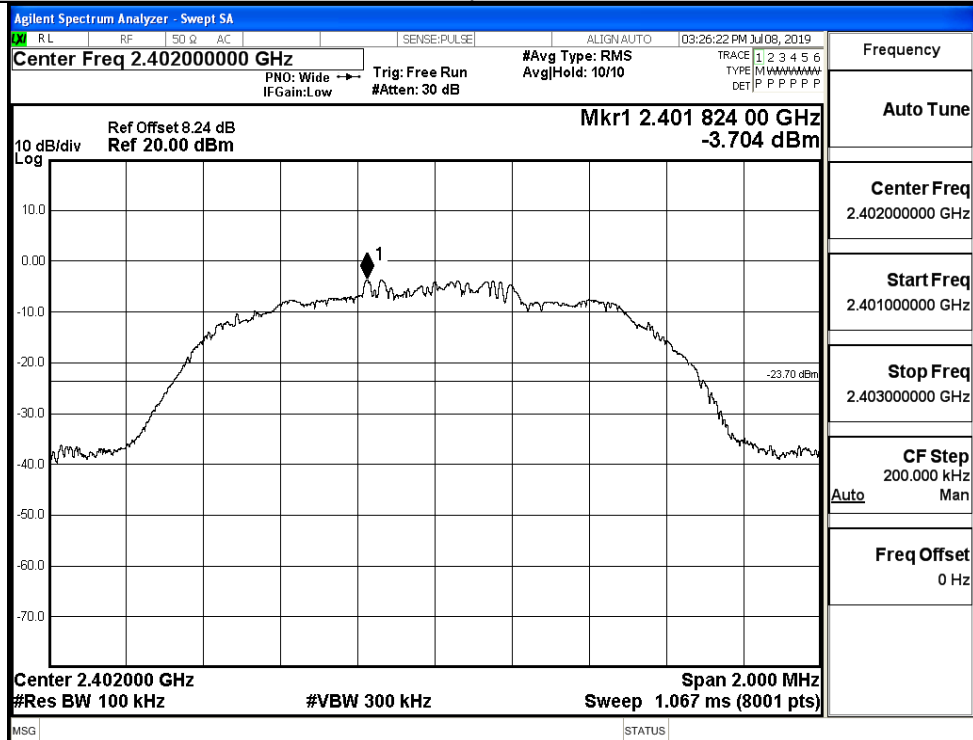


Puw

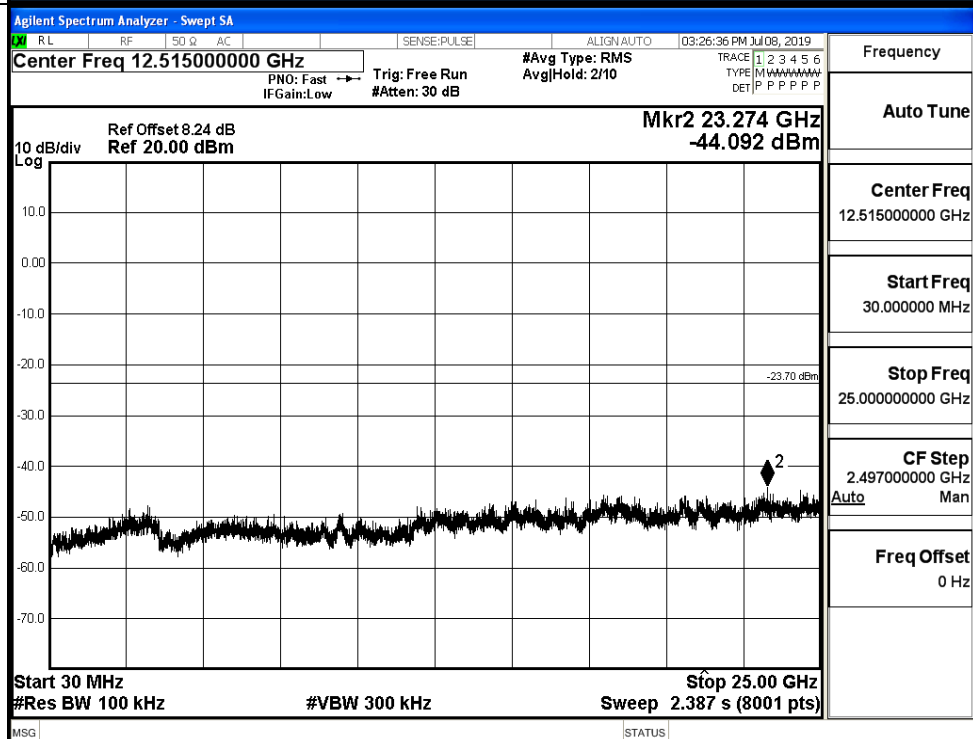


8DPSK_LCH_Graphs

Pref

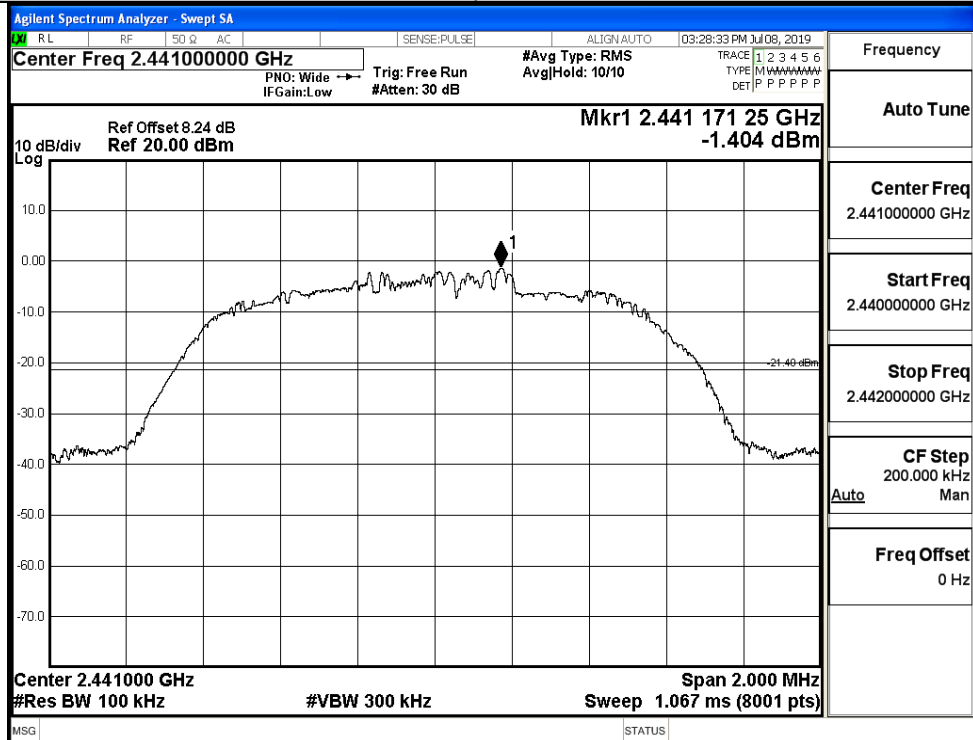


Puw

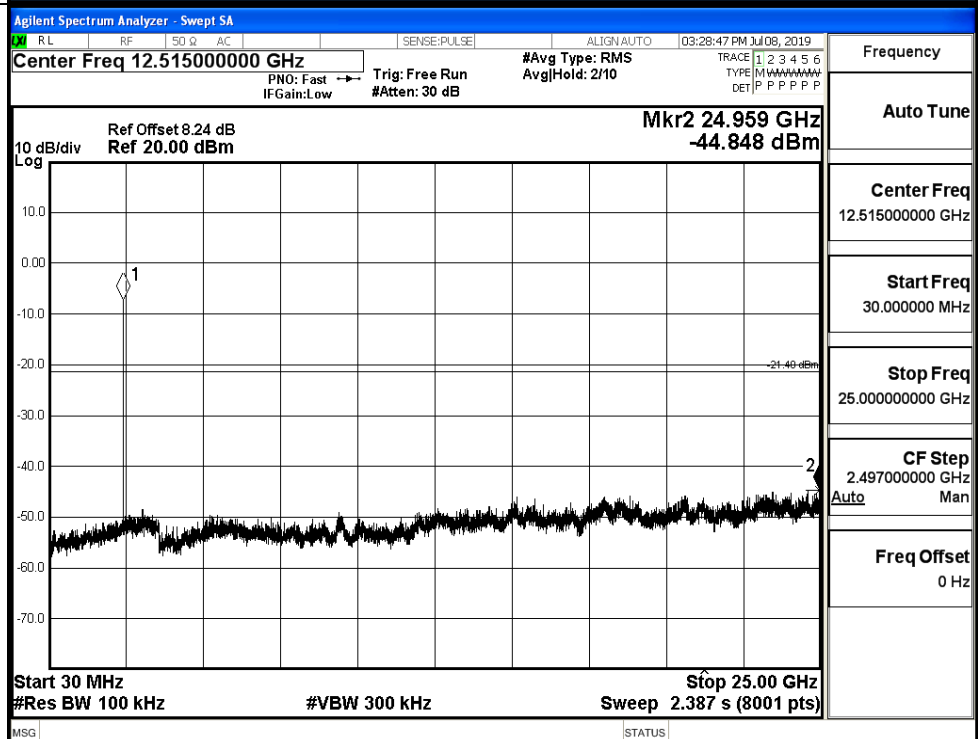


8DPSK_MCH_Graphs

Pref

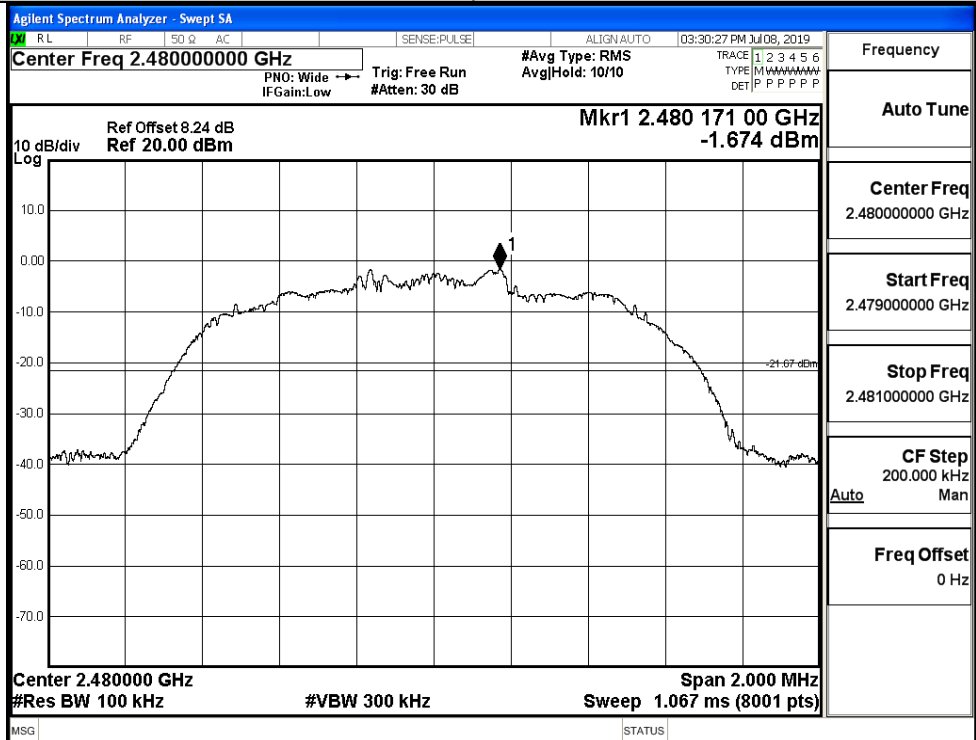


Puw

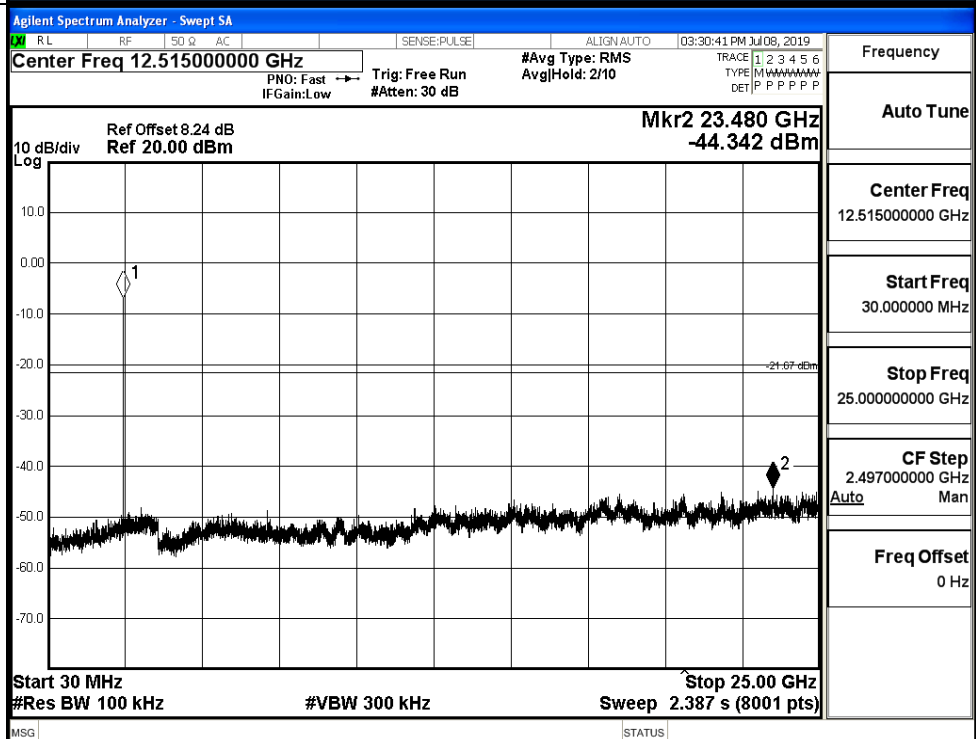


8DPSK_HCH_Graphs

Pref



Puw

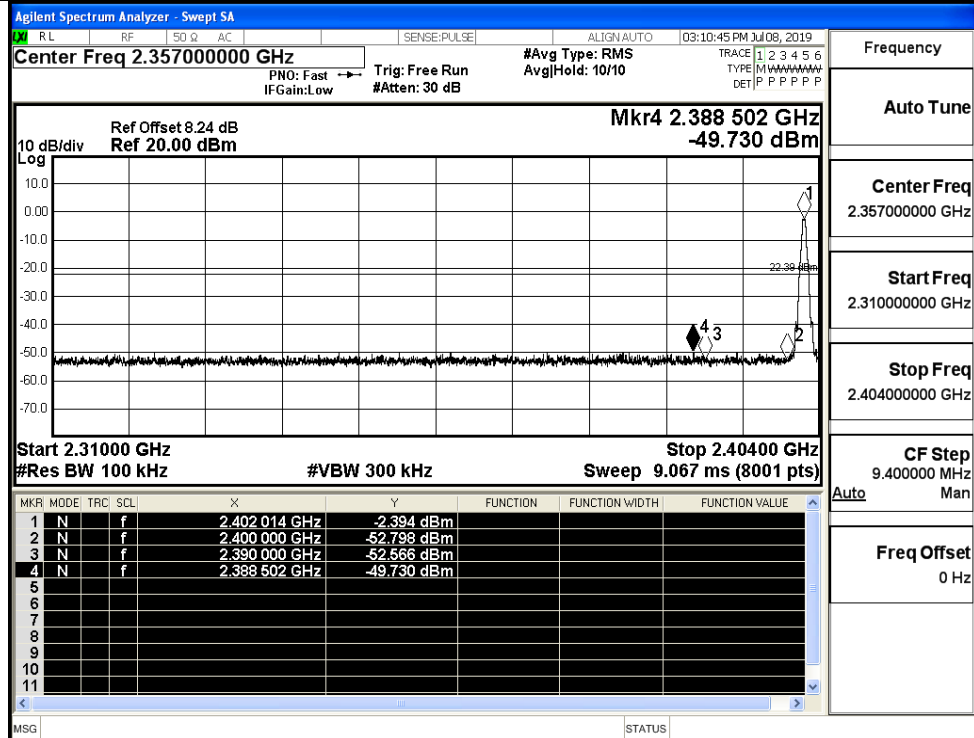


A.7 Band-edge for RF Conducted Emissions

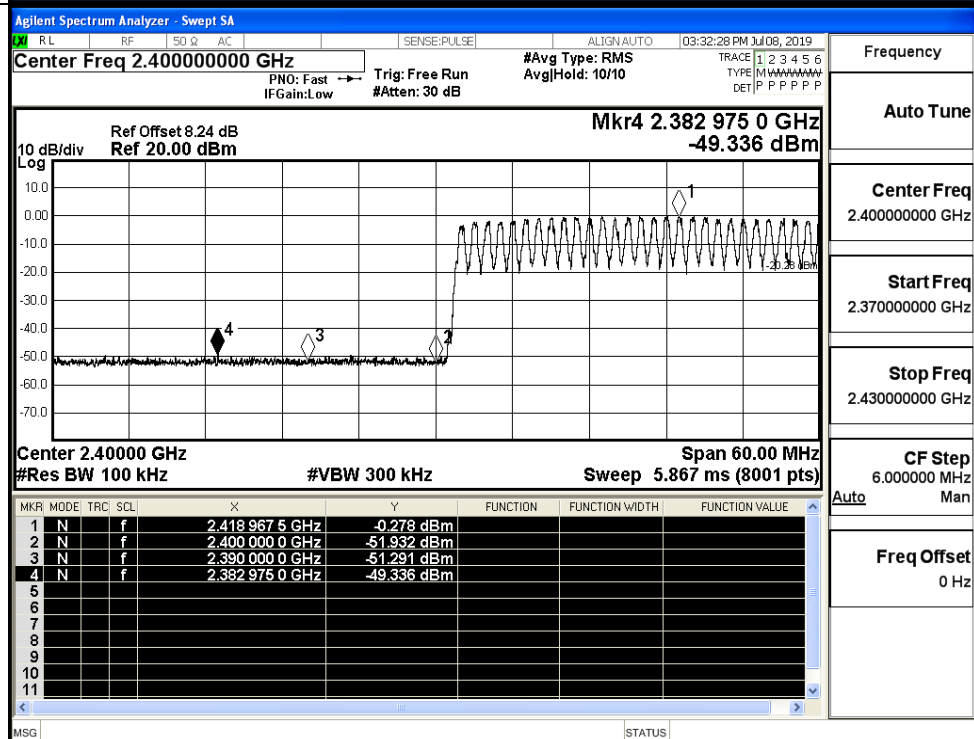
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-2.394	Off	-49.730	-22.39	PASS
			-0.278	On	-49.336	-20.28	PASS
	HCH	2480	-0.322	Off	-49.671	-20.32	PASS
			1.147	On	-48.960	-18.85	PASS
$\pi/4$ DQPSK	LCH	2402	-3.363	Off	-49.793	-23.36	PASS
			-1.101	On	-48.819	-21.1	PASS
	HCH	2480	-1.579	Off	-49.545	-21.58	PASS
			-0.085	On	-48.728	-20.09	PASS
8DPSK	LCH	2402	-3.060	Off	-49.878	-23.06	PASS
			-1.369	On	-48.908	-21.37	PASS
	HCH	2480	-1.973	Off	-49.967	-21.97	PASS
			-0.234	On	-49.092	-20.23	PASS

Test Graphs

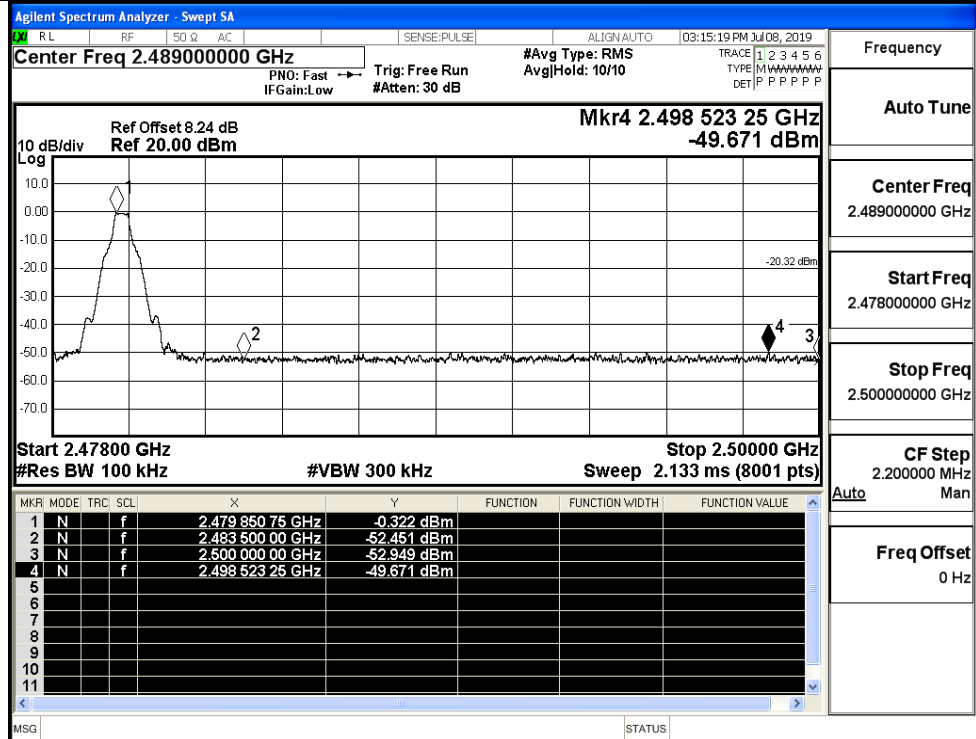
GFSK/LCH/No Hop



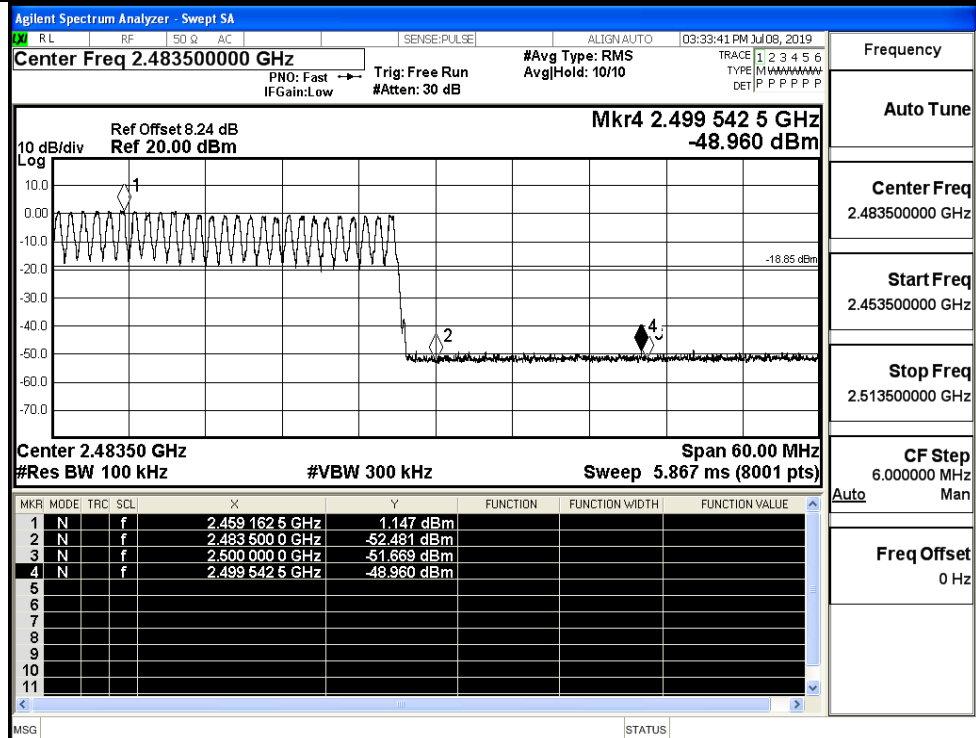
GFSK/LCH/Hop



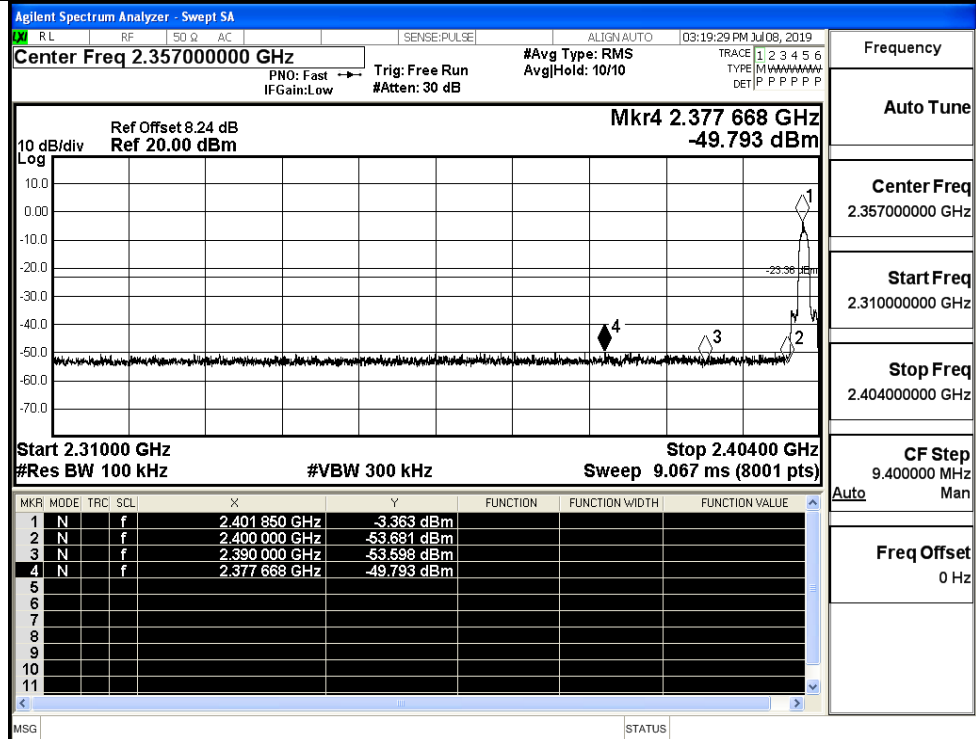
GFSK/HCH/No Hop



GFSK/HCH/Hop



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



Frequency

Auto Tune

Center Freq
2.357000000 GHz

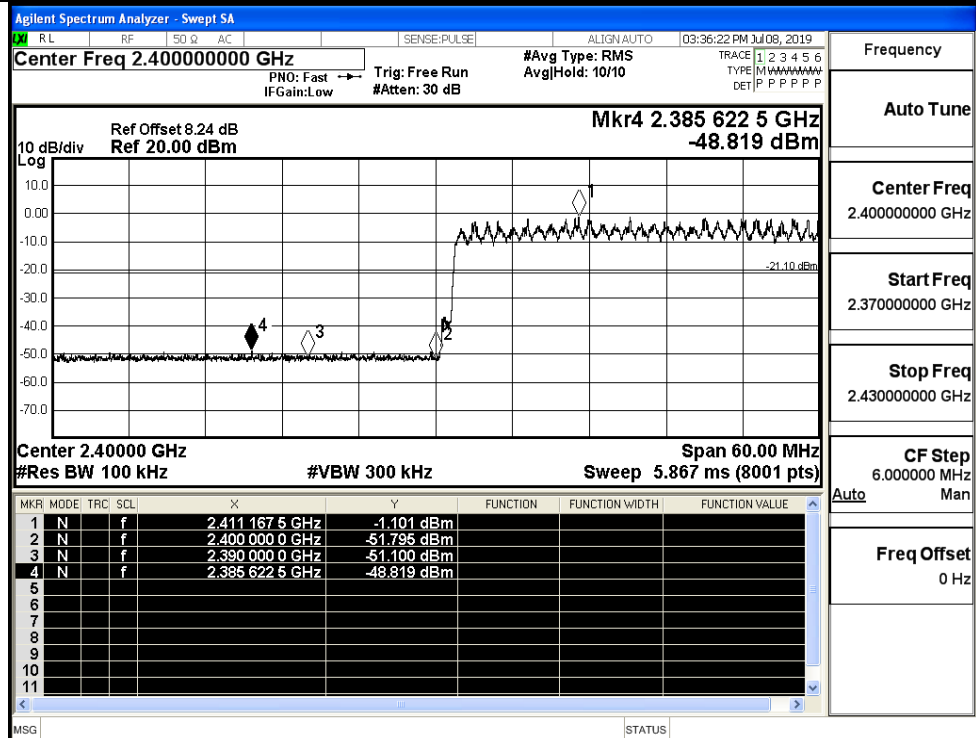
Start Freq
2.310000000 GHz

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

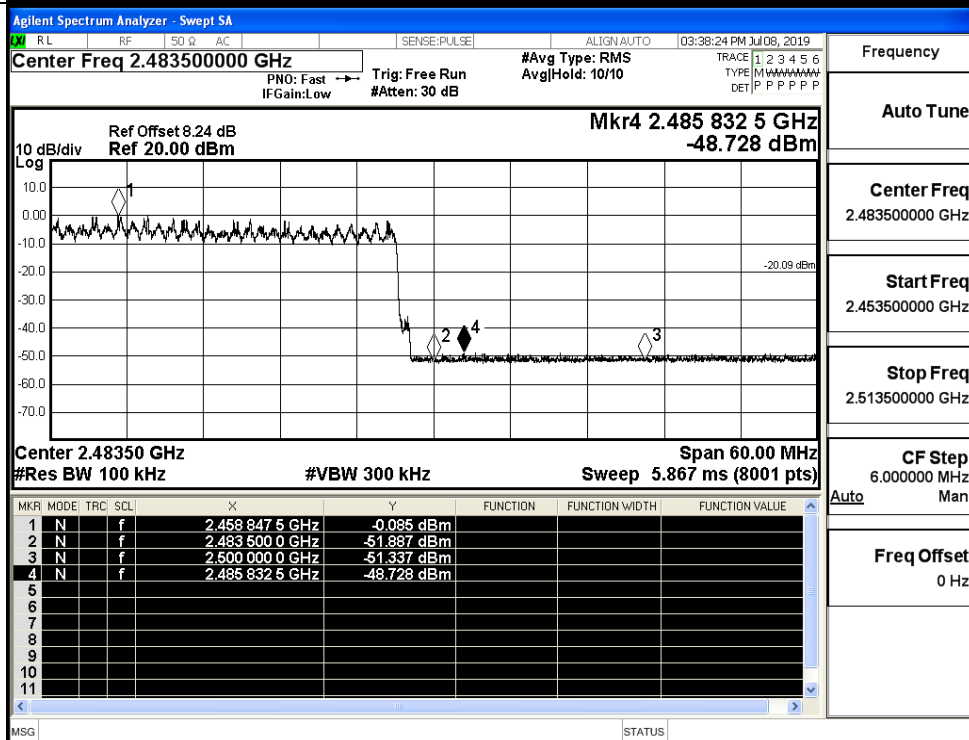
Start Freq
2.370000000 GHz

Stop Freq
2.430000000 GHz

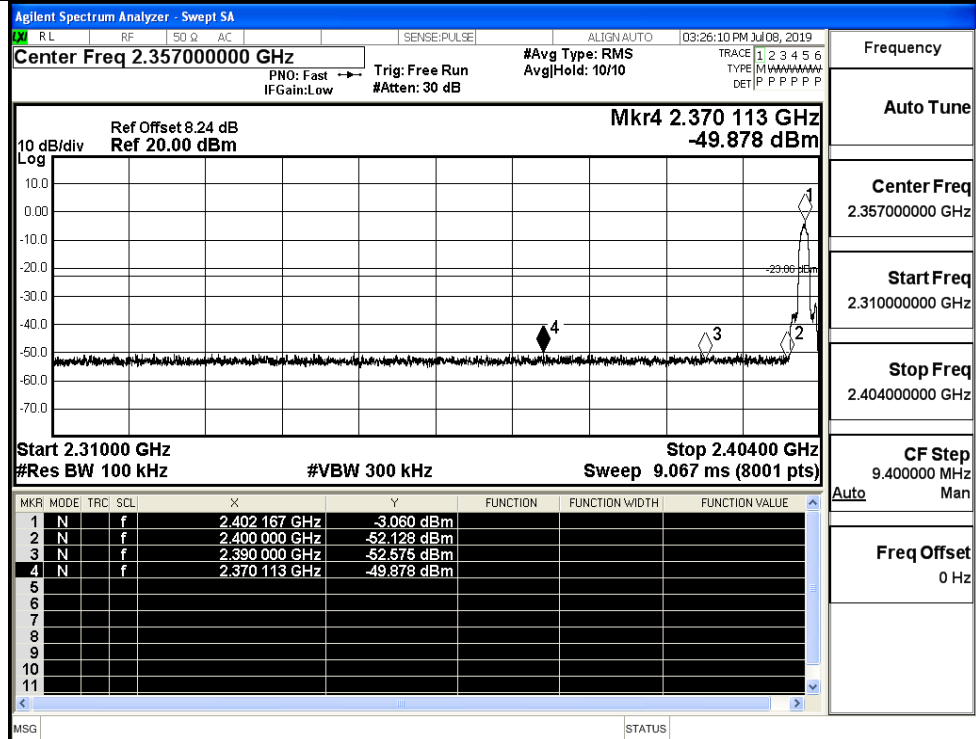
CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

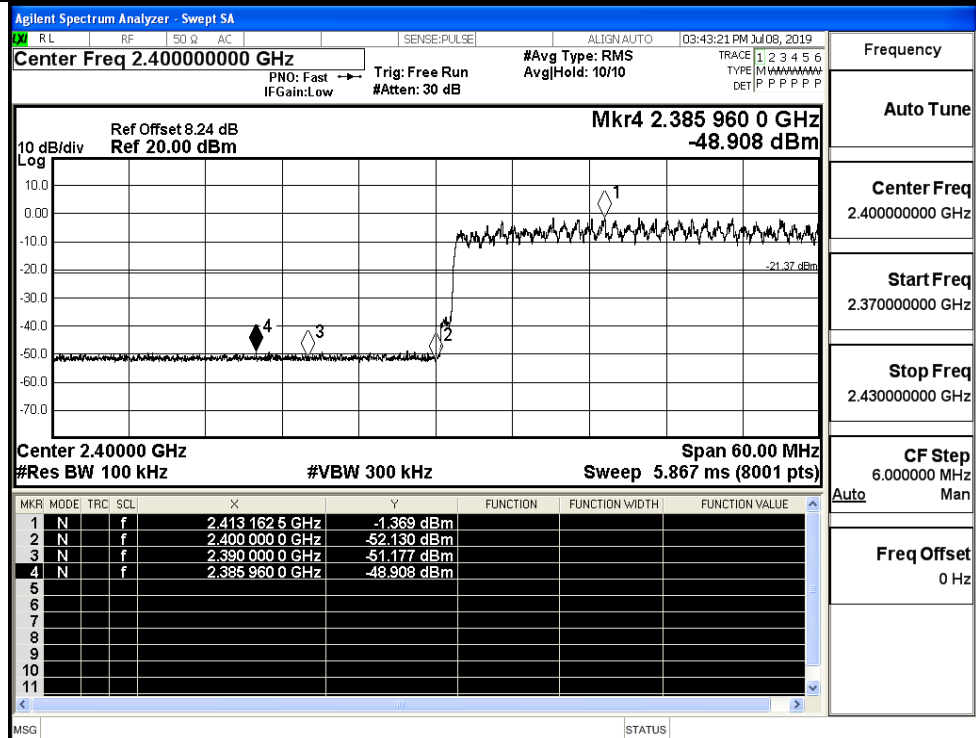
$\pi/4$ DQPSK/HCH/Hop



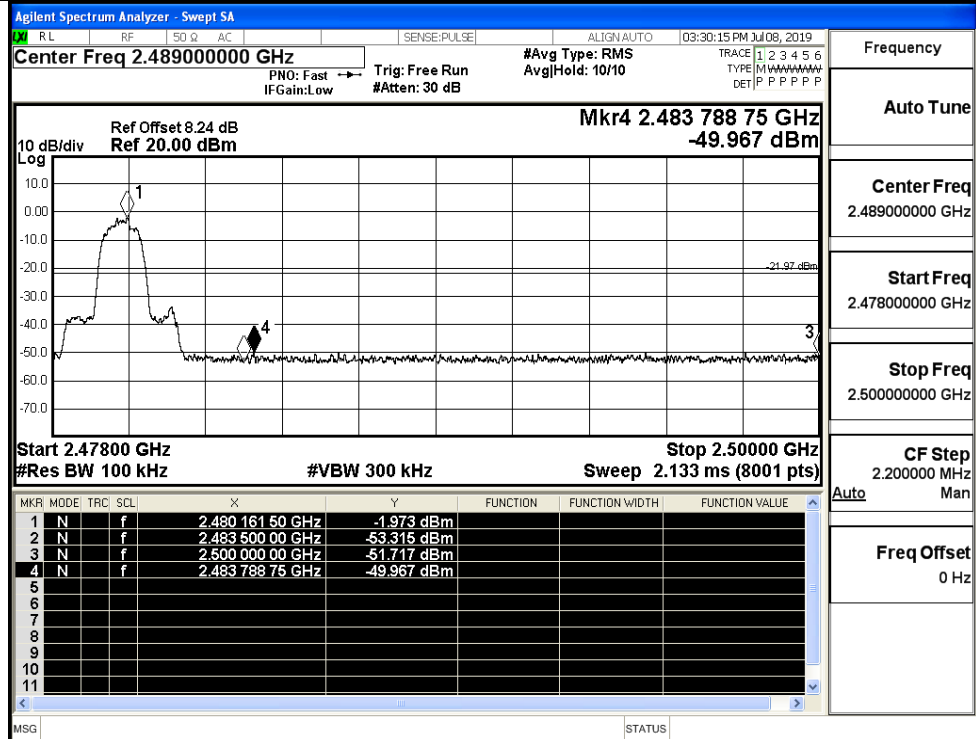
8DPSK/LCH/No Hop



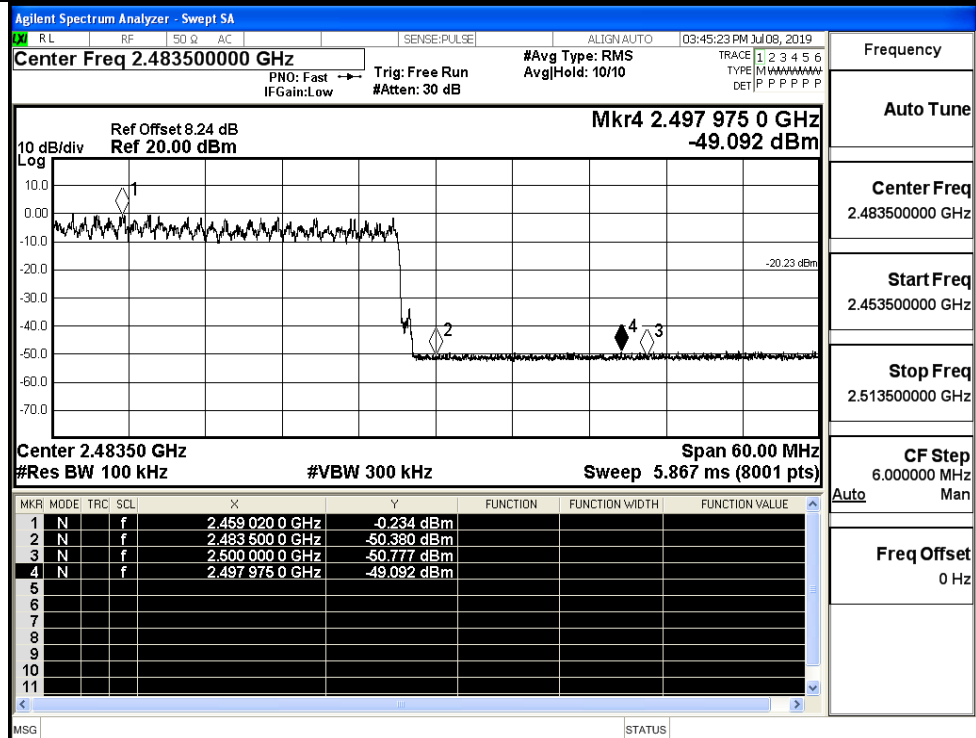
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



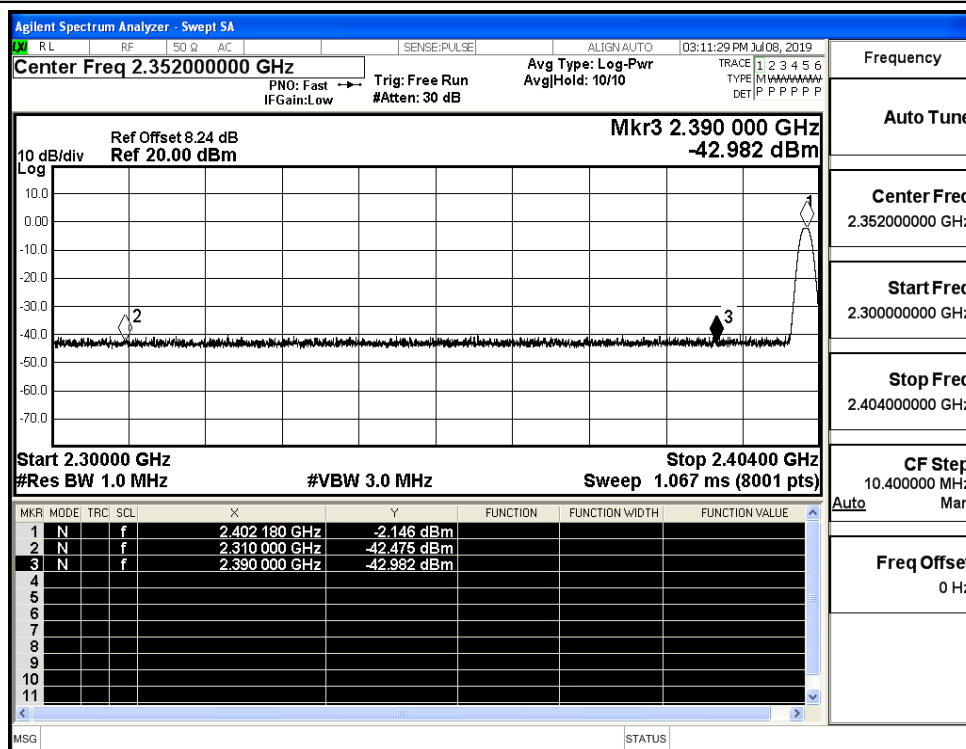
8DPSK/HCH/Hop



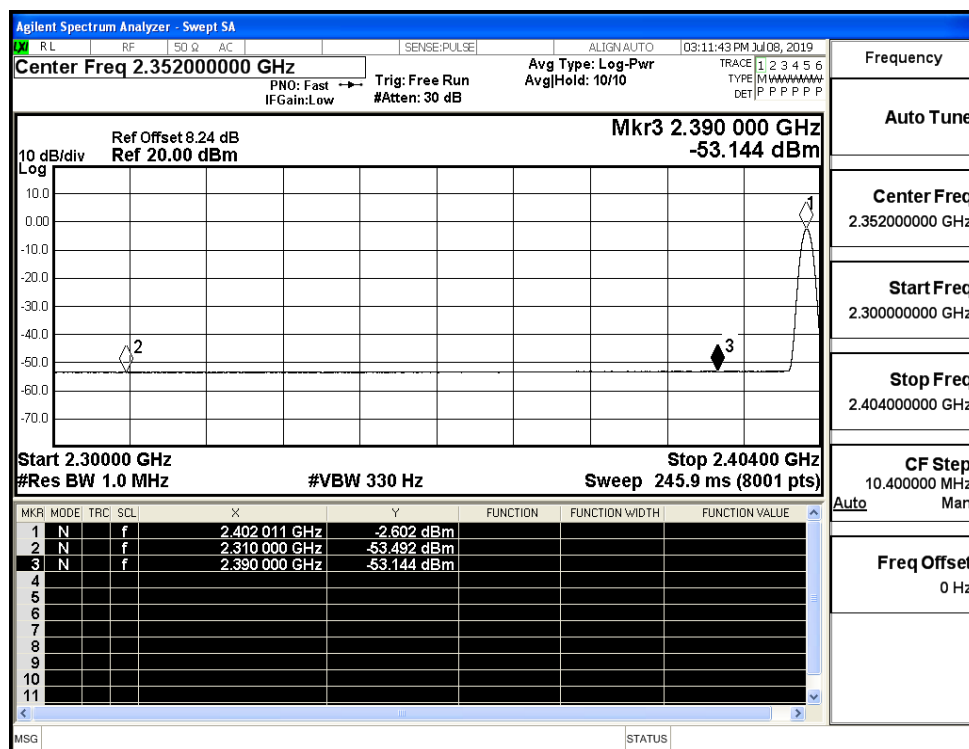
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-42.48	2.5	0	55.28	PEAK	74	PASS
	Off	2310.0	-53.49	2.5	0	44.27	AV	54	PASS
	Off	2390.0	-42.98	2.5	0	54.78	PEAK	74	PASS
	Off	2390.0	-53.14	2.5	0	44.62	AV	54	PASS
	Off	2483.5	-42.14	2.5	0	55.62	PEAK	74	PASS
	Off	2483.5	-52.91	2.5	0	44.85	AV	54	PASS
	Off	2500.0	-43.22	2.5	0	54.54	PEAK	74	PASS
	Off	2500.0	-52.82	2.5	0	44.94	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-43.20	2.5	0	54.56	PEAK	74	PASS
	Off	2310.0	-53.49	2.5	0	44.27	AV	54	PASS
	Off	2390.0	-42.64	2.5	0	55.12	PEAK	74	PASS
	Off	2390.0	-53.21	2.5	0	44.55	AV	54	PASS
	Off	2483.5	-41.94	2.5	0	55.82	PEAK	74	PASS
	Off	2483.5	-52.86	2.5	0	44.9	AV	54	PASS
	Off	2500.0	-43.46	2.5	0	54.3	PEAK	74	PASS
	Off	2500.0	-52.80	2.5	0	44.96	AV	54	PASS
8DPSK	Off	2310.0	-42.78	2.5	0	54.98	PEAK	74	PASS
	Off	2310.0	-53.41	2.5	0	44.35	AV	54	PASS
	Off	2390.0	-43.35	2.5	0	54.41	PEAK	74	PASS
	Off	2390.0	-53.15	2.5	0	44.61	AV	54	PASS
	Off	2483.5	-42.20	2.5	0	55.56	PEAK	74	PASS
	Off	2483.5	-52.89	2.5	0	44.87	AV	54	PASS
	Off	2500.0	-41.85	2.5	0	55.91	PEAK	74	PASS
	Off	2500.0	-52.69	2.5	0	45.07	AV	54	PASS

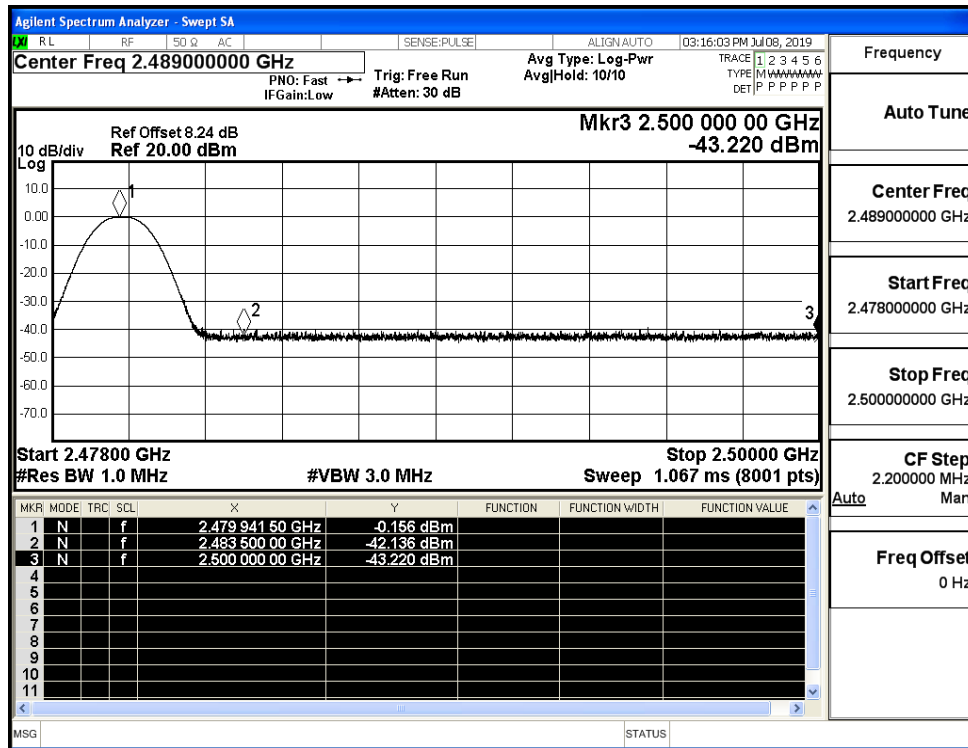
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



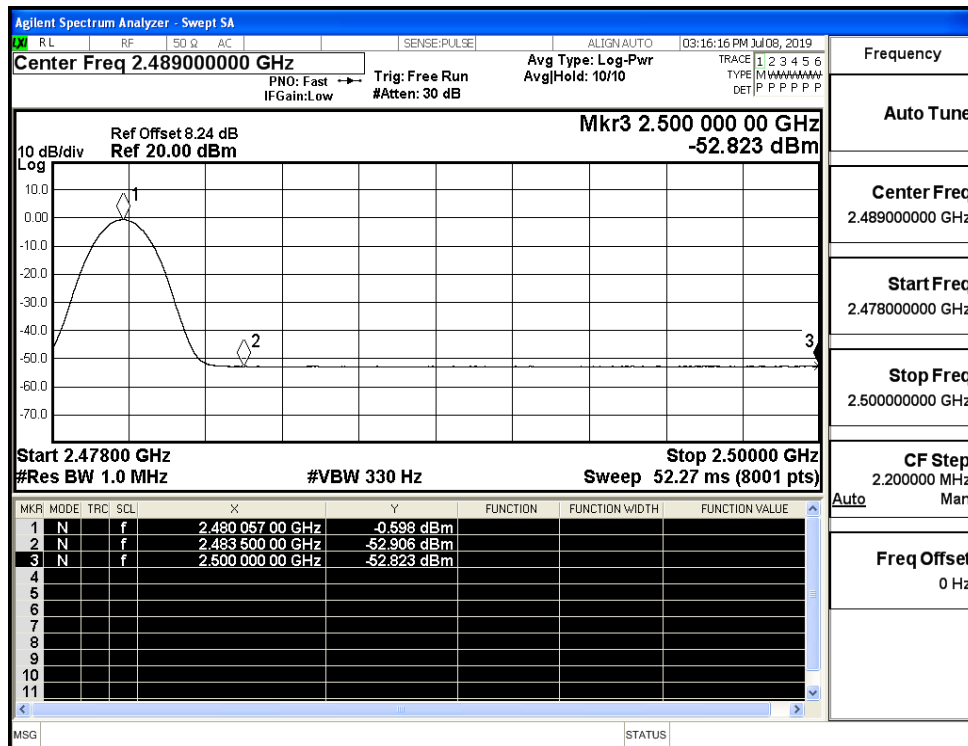
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)

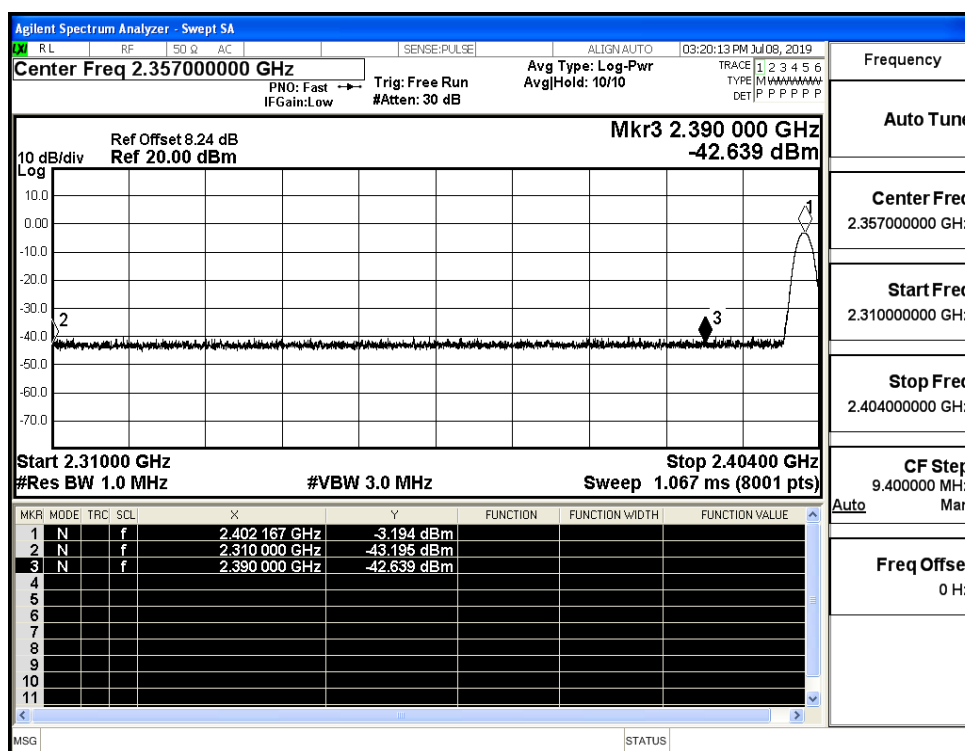
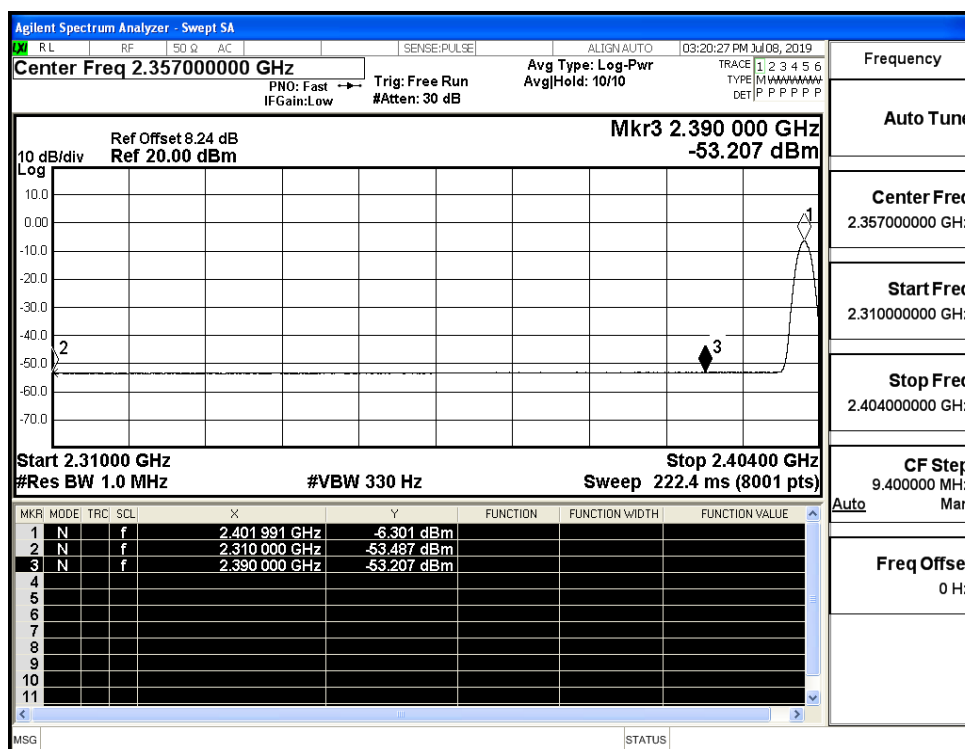


Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)

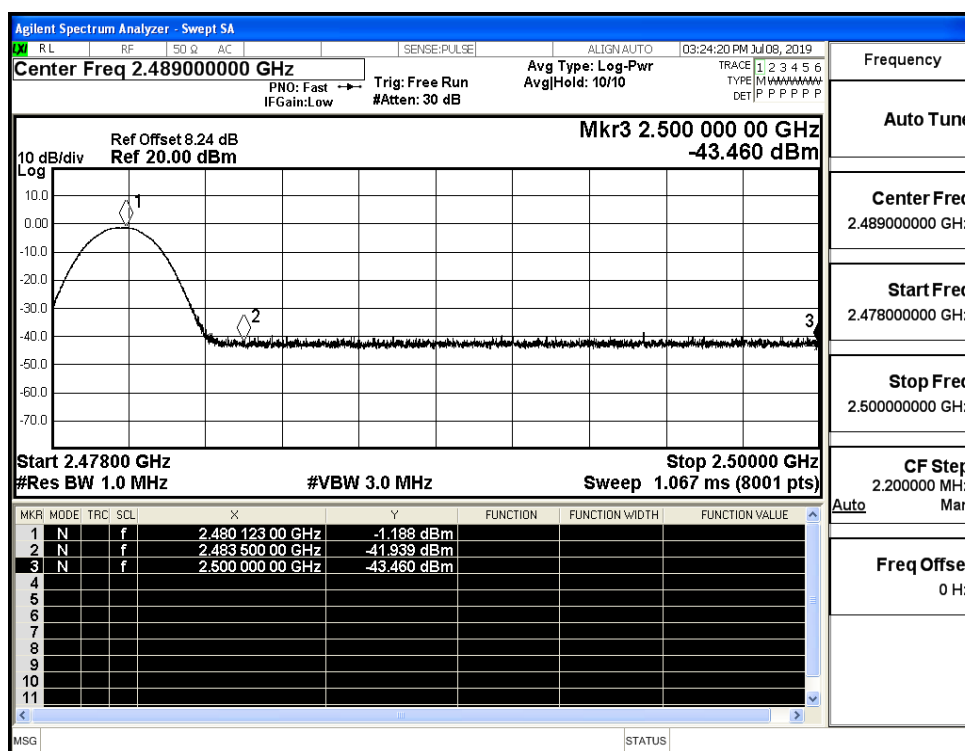


Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)

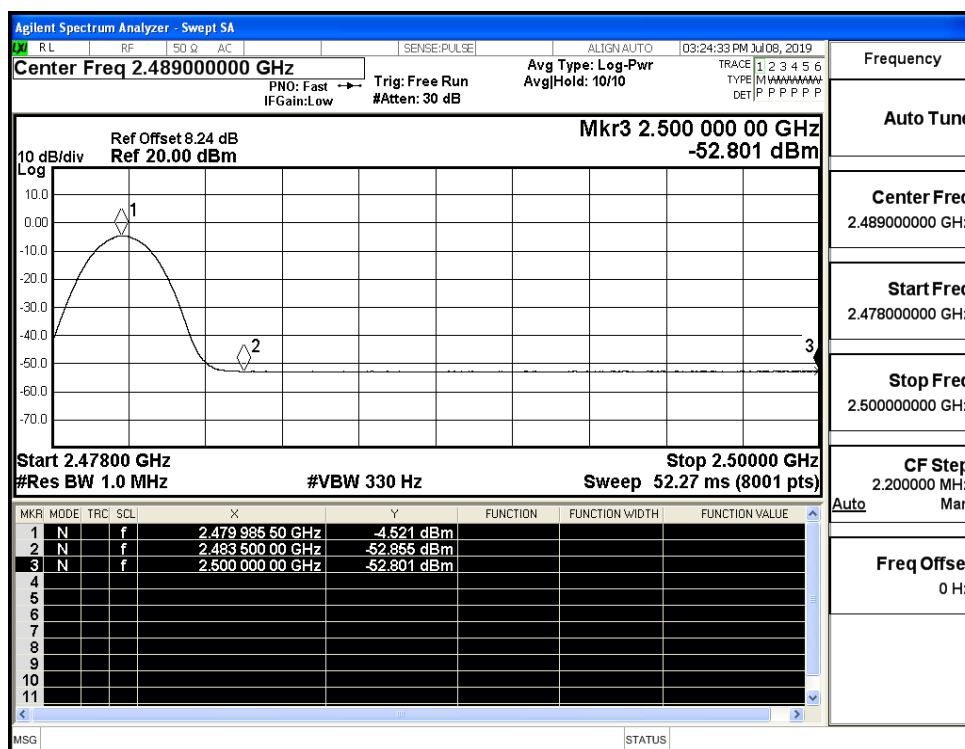


Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)

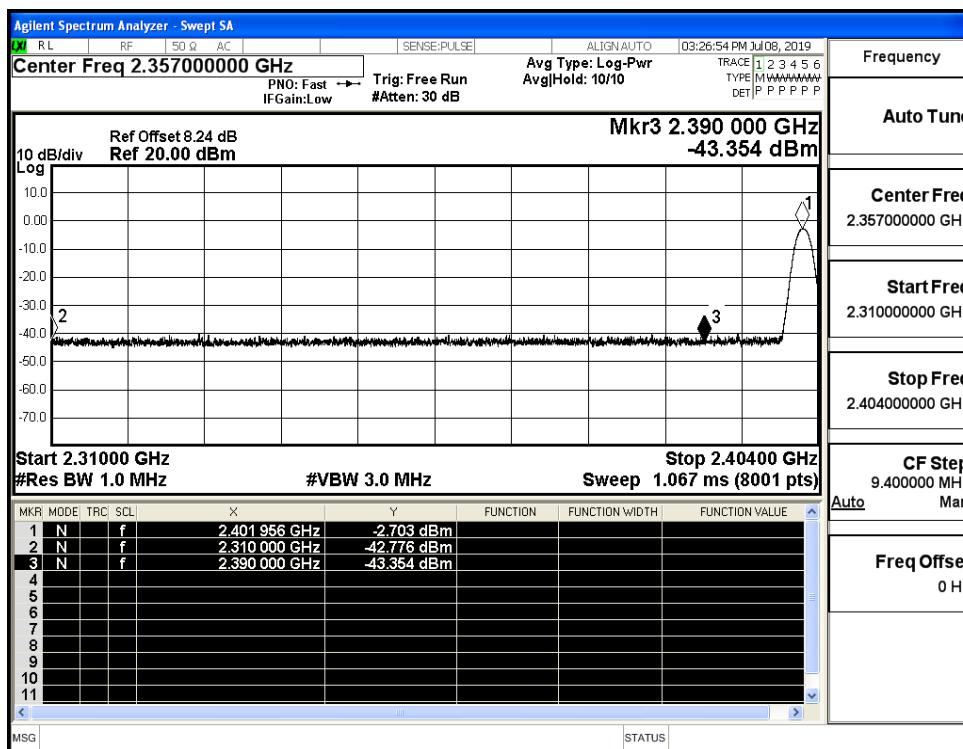
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



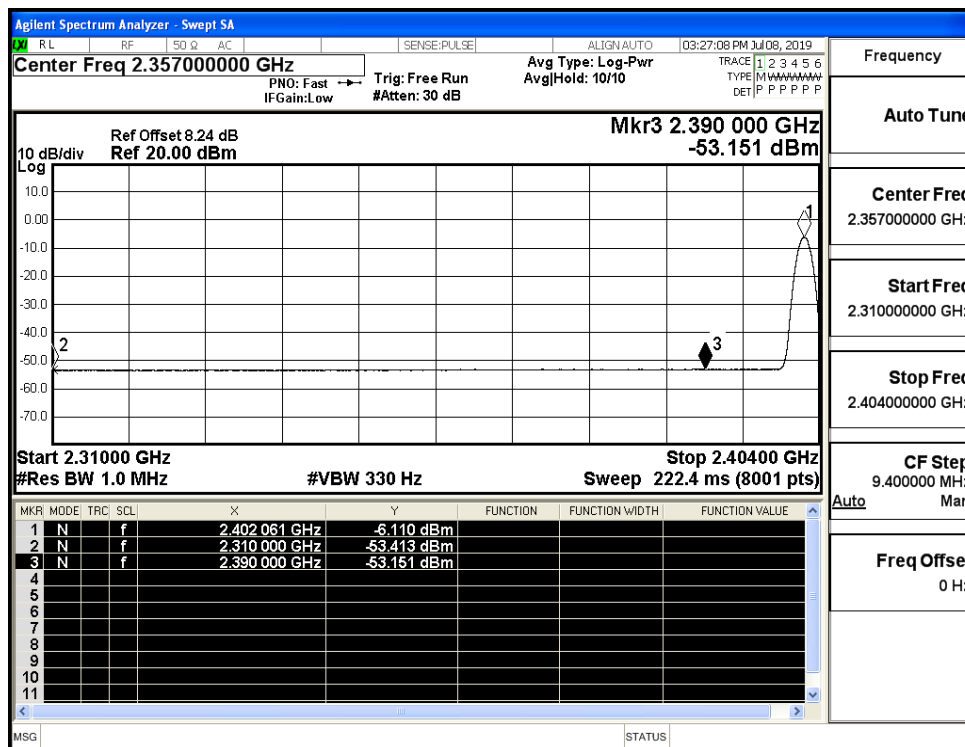
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



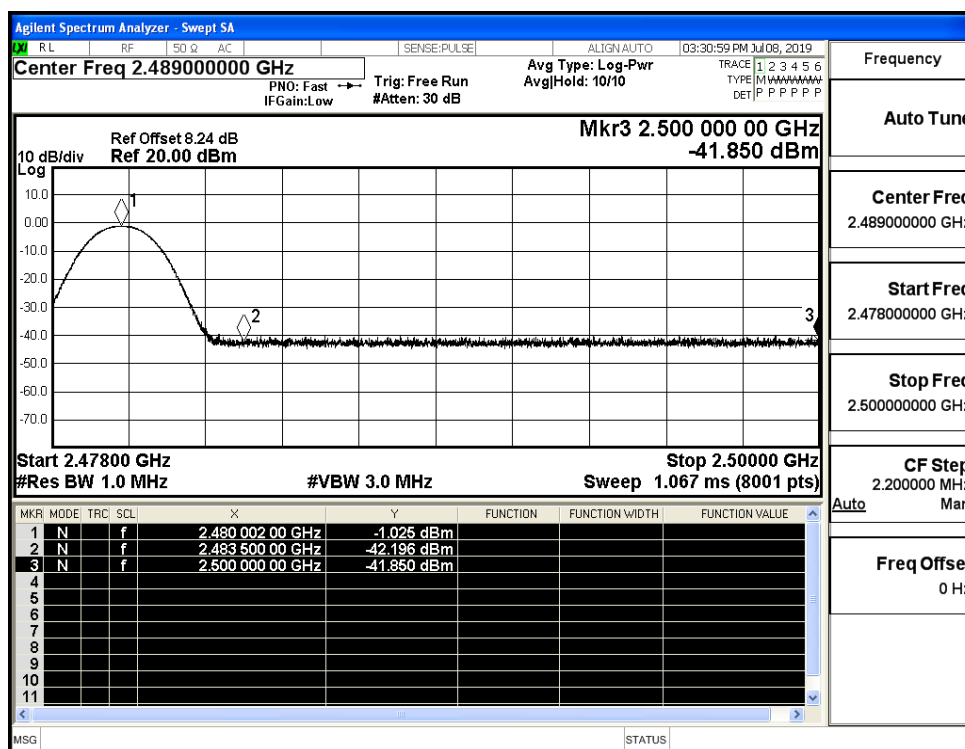
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

