

Appendix A

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

Product Name: Tablet pc

Trade Mark: DayMark

Test Model: MATT85

Environmental Conditions

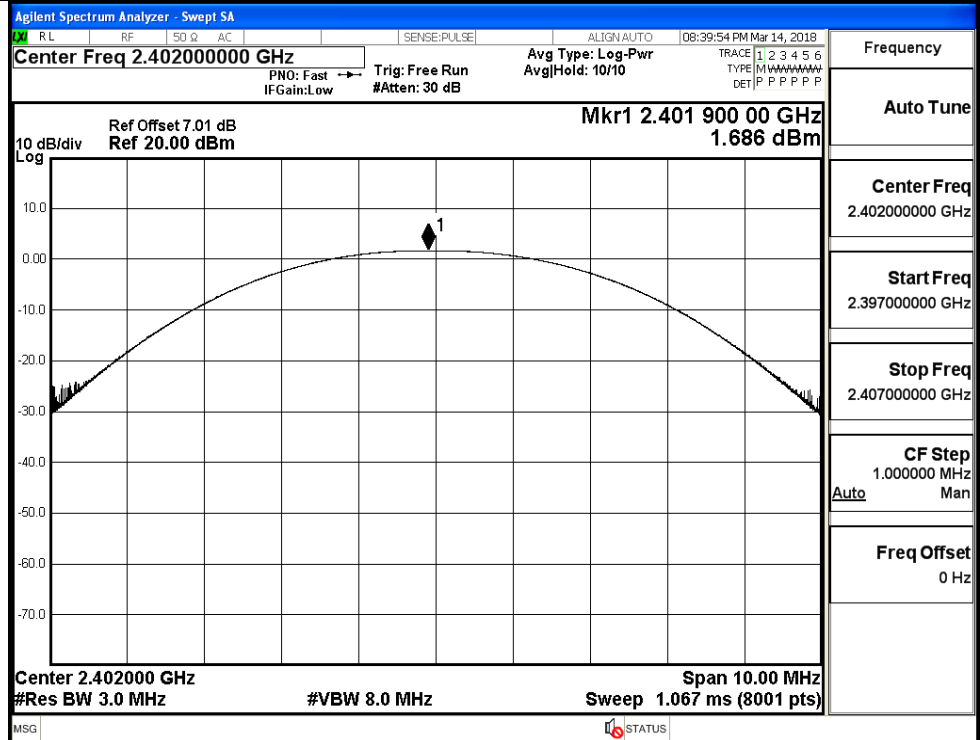
Temperature:	22.5 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

A.1 Maximum Conducted Peak Output Power

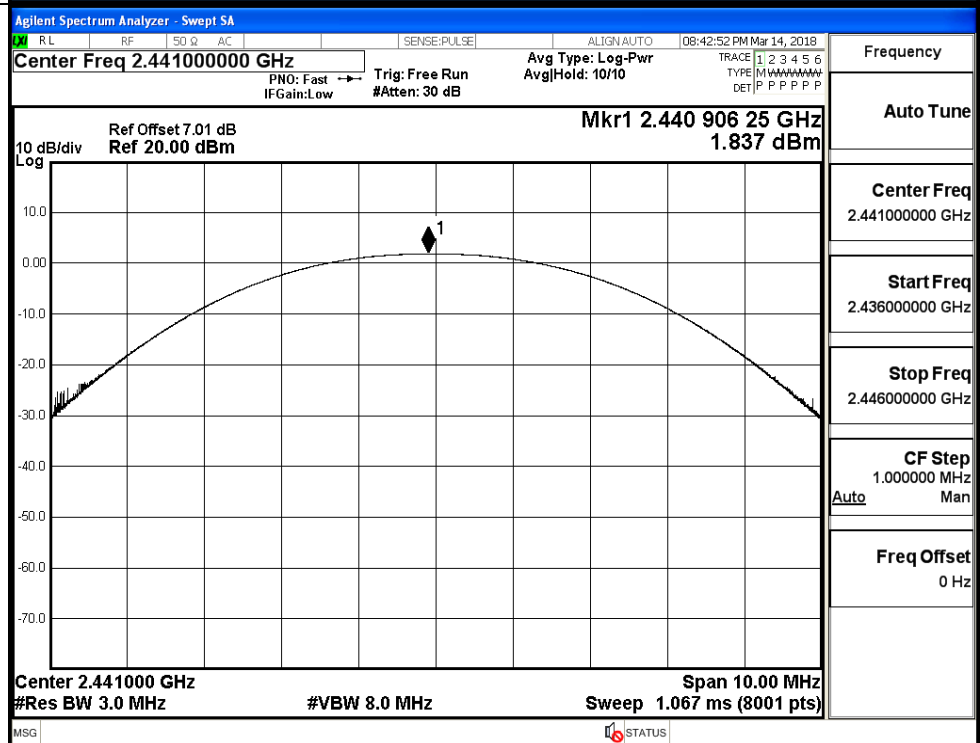
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.686	21	PASS
	MCH	1.837	21	PASS
	HCH	1.720	21	PASS
$\pi/4$ DQPSK	LCH	1.451	21	PASS
	MCH	1.614	21	PASS
	HCH	1.482	21	PASS
8DPSK	LCH	1.646	21	PASS
	MCH	1.826	21	PASS
	HCH	1.841	21	PASS

Test Graphs

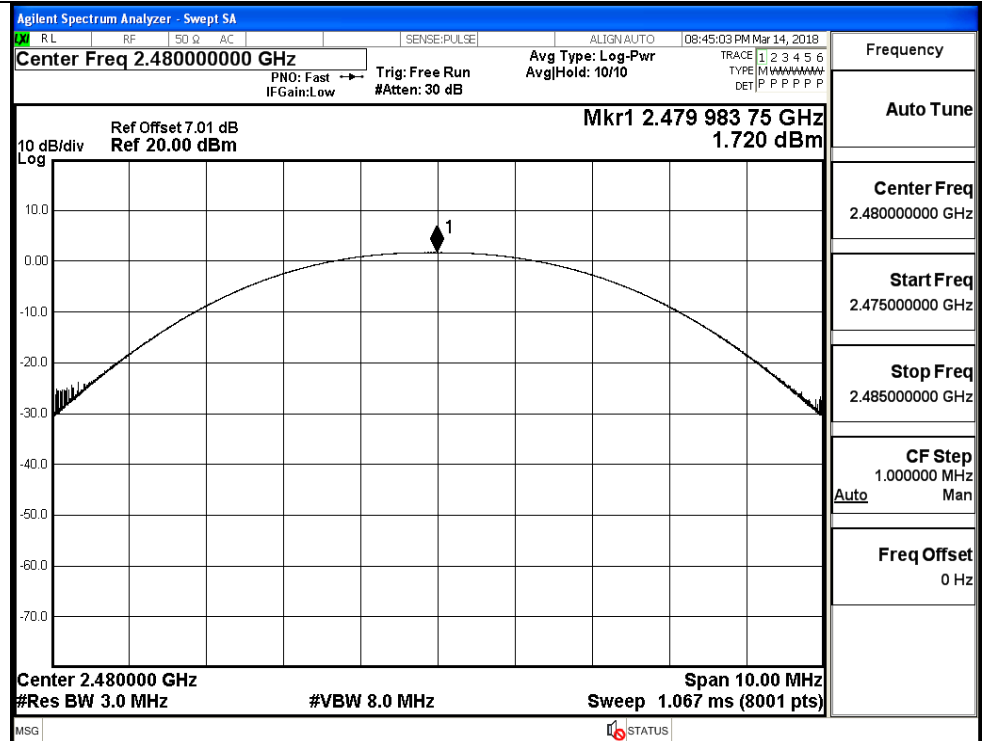
GFSK/LCH



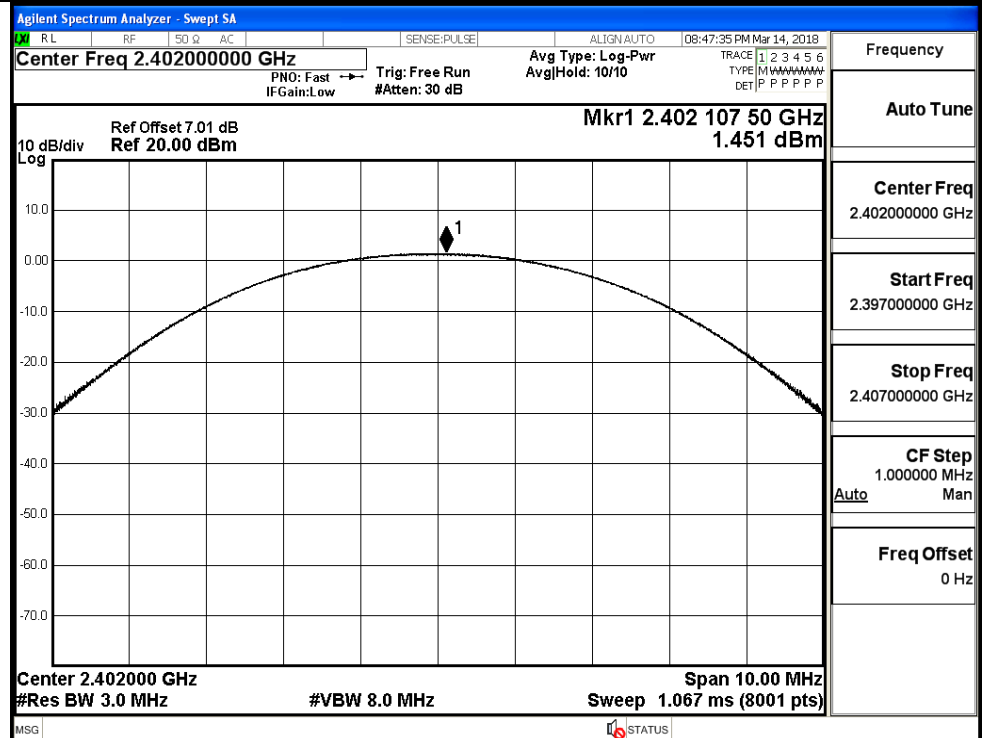
GFSK/MCH

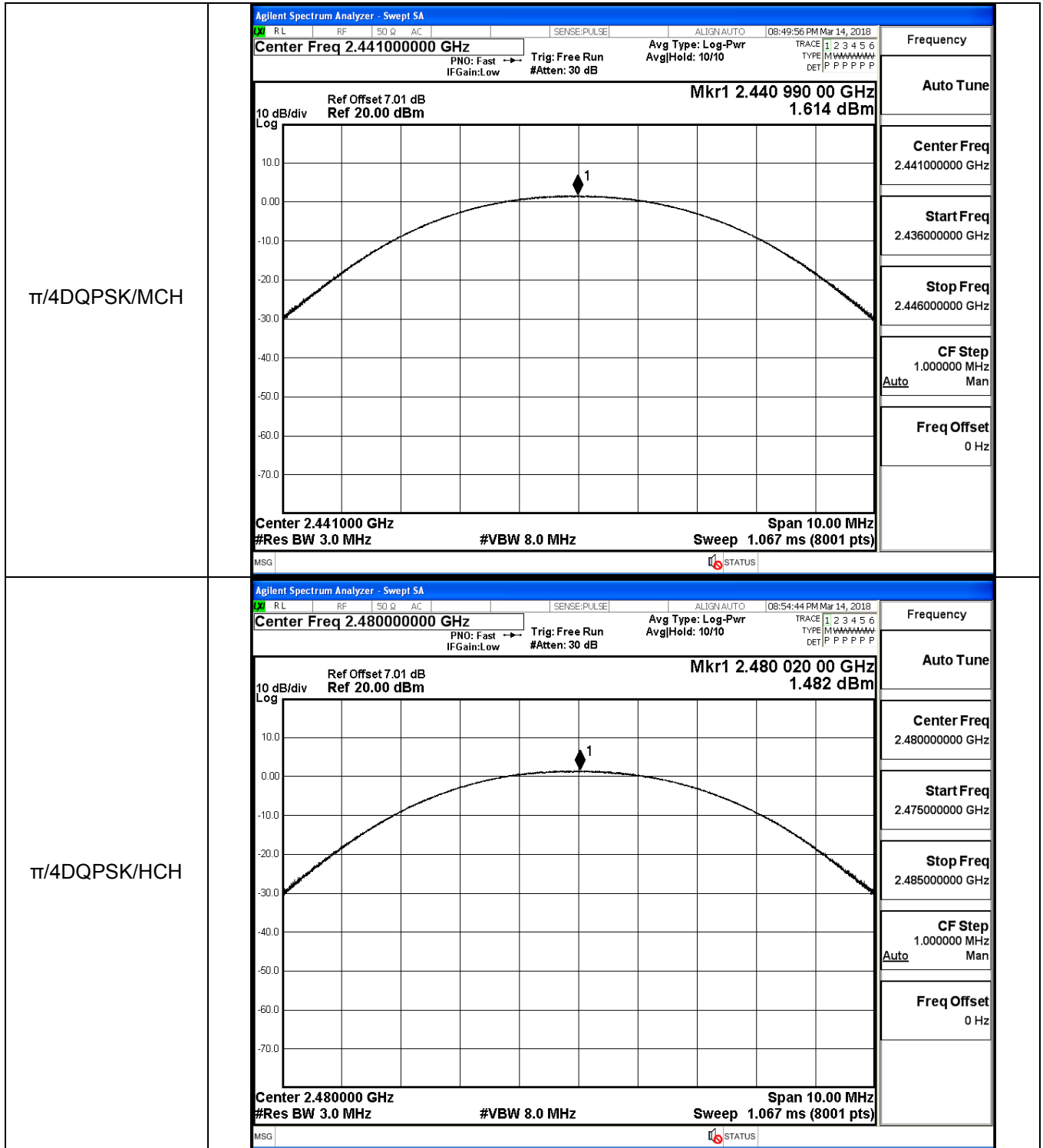


GFSK/HCH

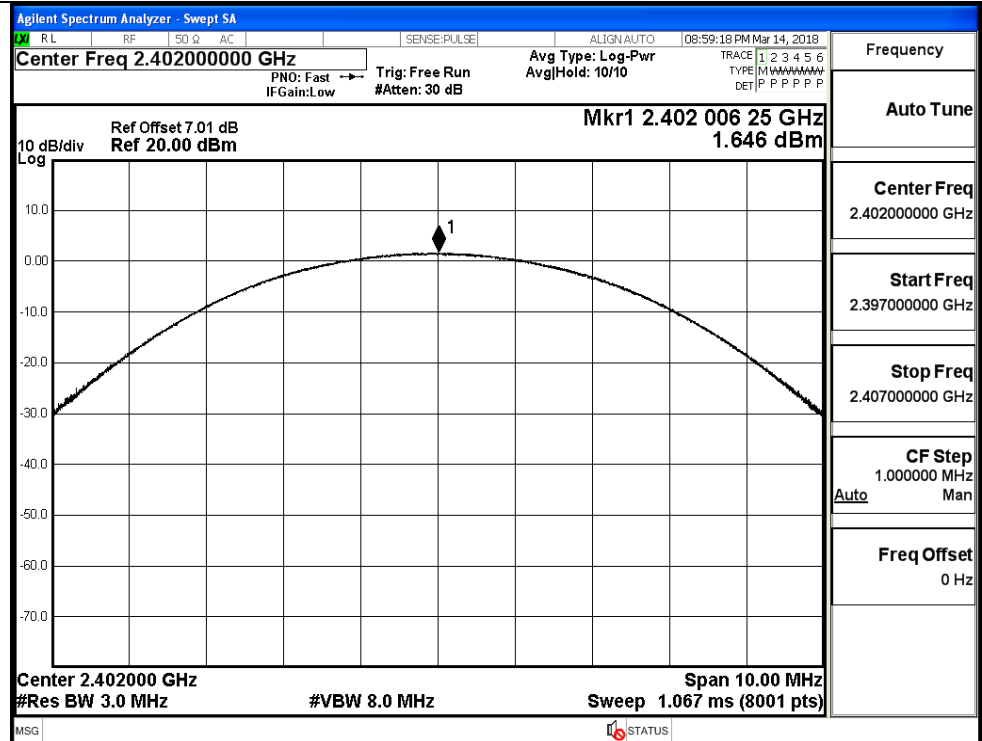


$\pi/4$ DQPSK/LCH

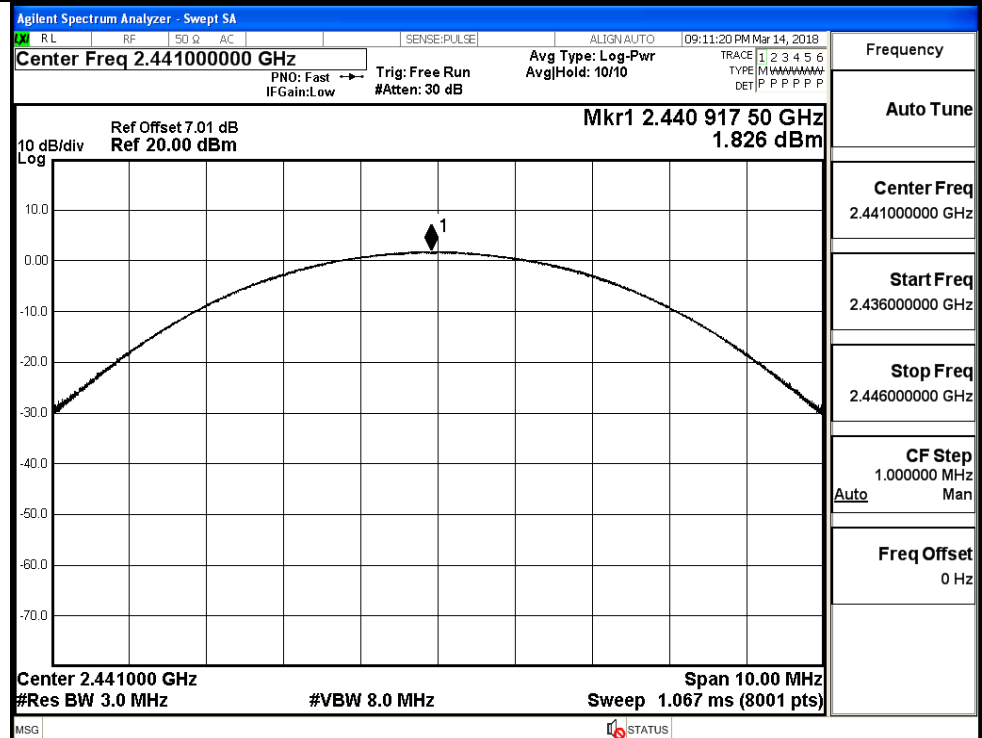




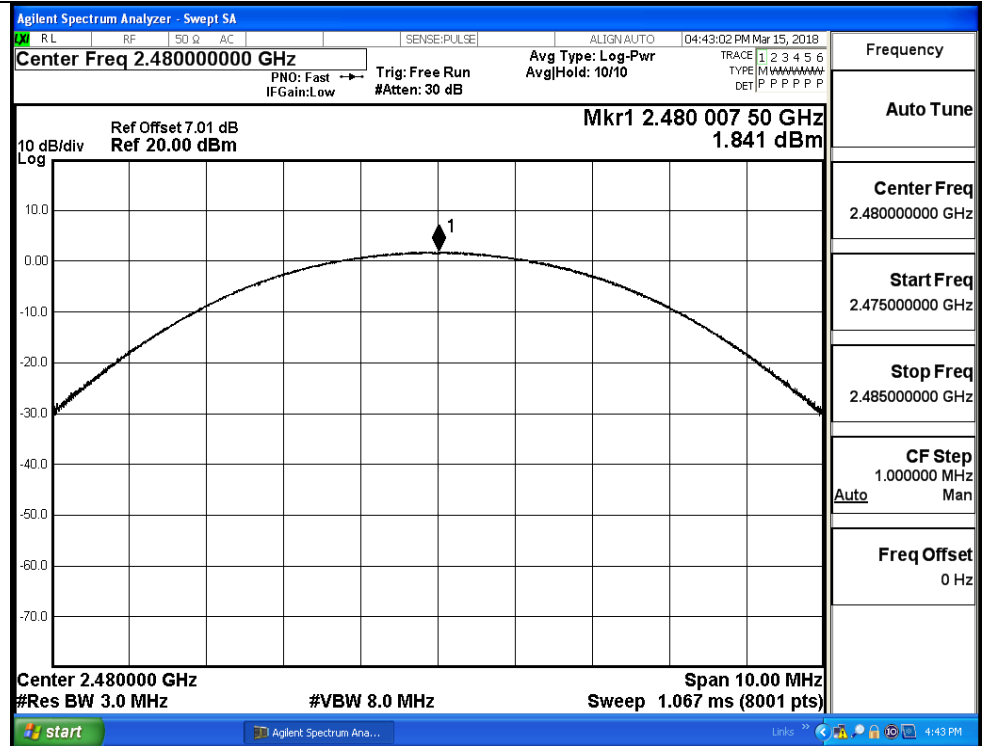
8DPSK/LCH



8DPSK/MCH



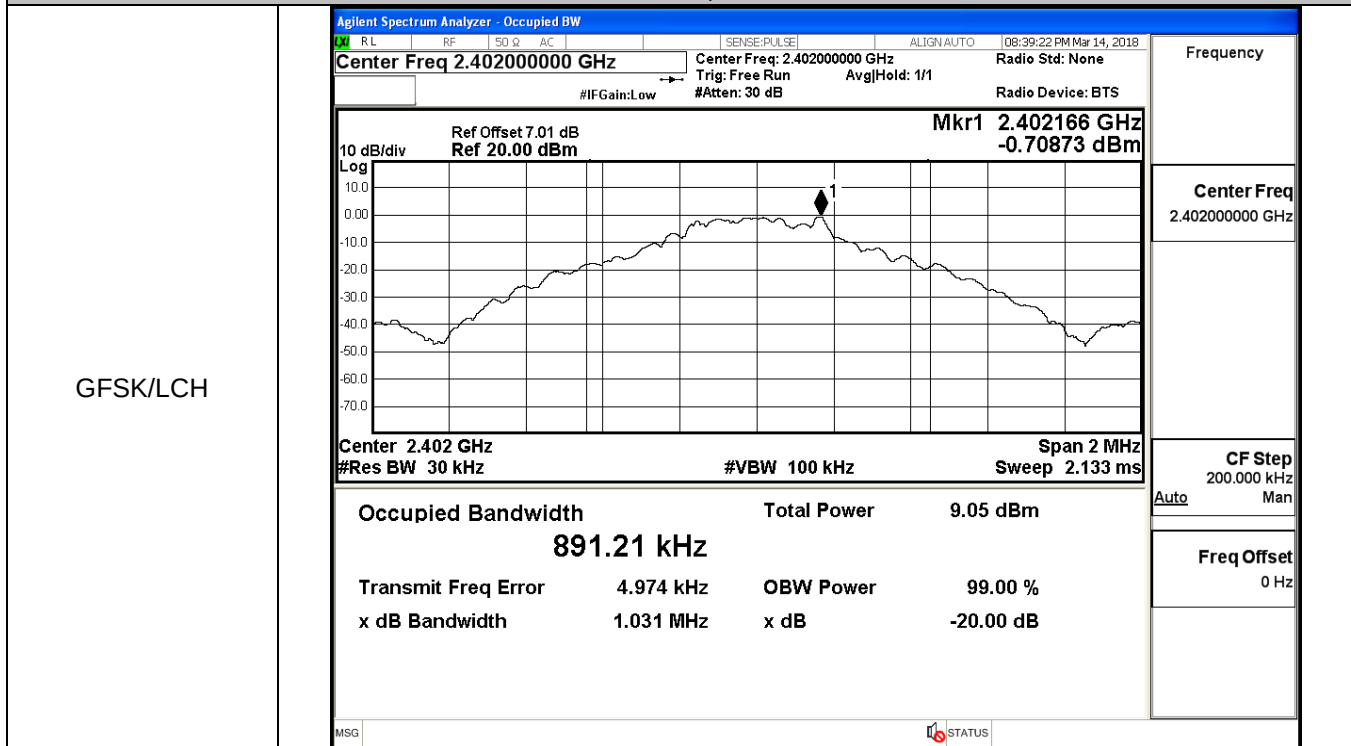
8DPSK/HCH



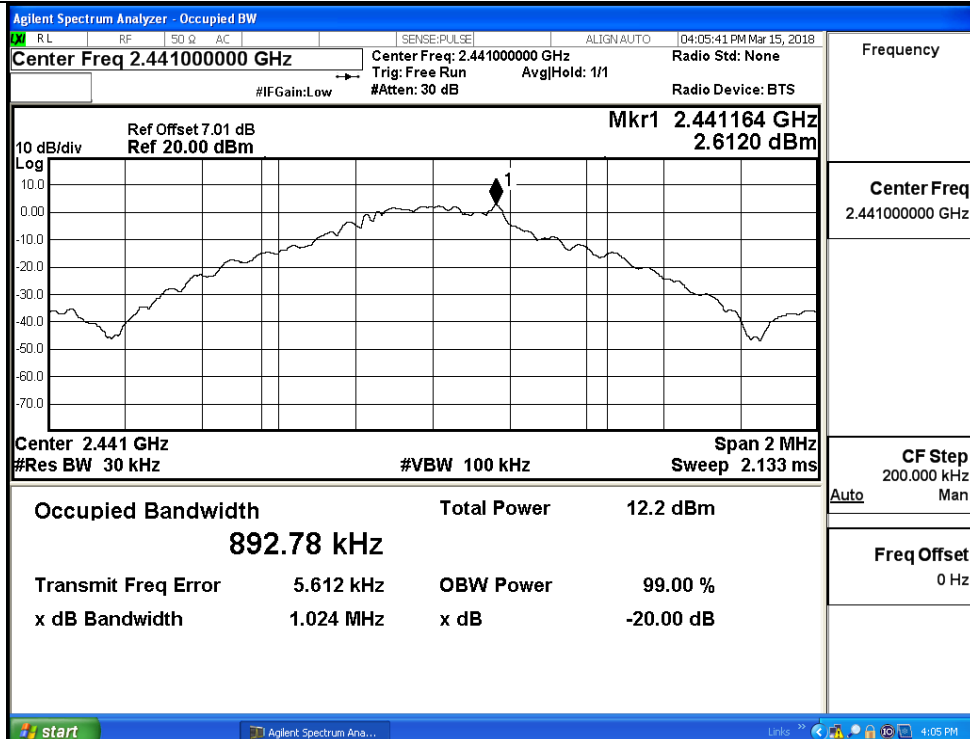
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	99% Bandwidth Limit [MHz]	Verdict
GFSK	LCH	1.031	0.89121	PASS
	MCH	1.024	0.89278	PASS
	HCH	1.024	0.88694	PASS
$\pi/4$ DQPSK	LCH	1.287	1.1672	PASS
	MCH	1.287	1.1651	PASS
	HCH	1.287	1.1645	PASS
8DPSK	LCH	1.291	1.1724	PASS
	MCH	1.289	1.1719	PASS
	HCH	1.289	1.1910	PASS

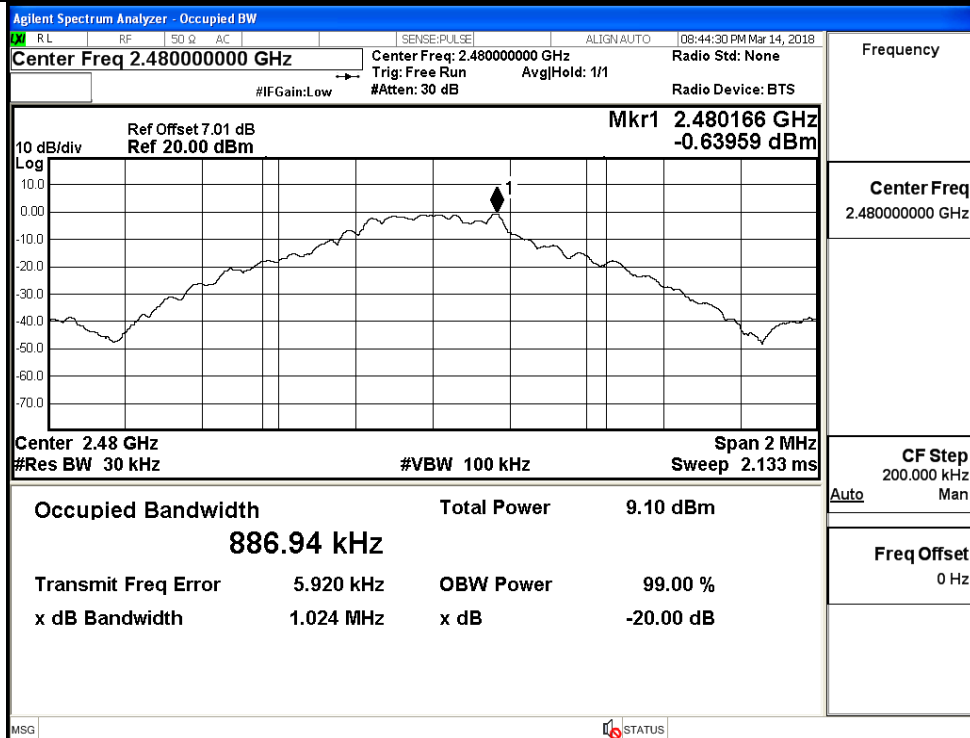
Test Graphs



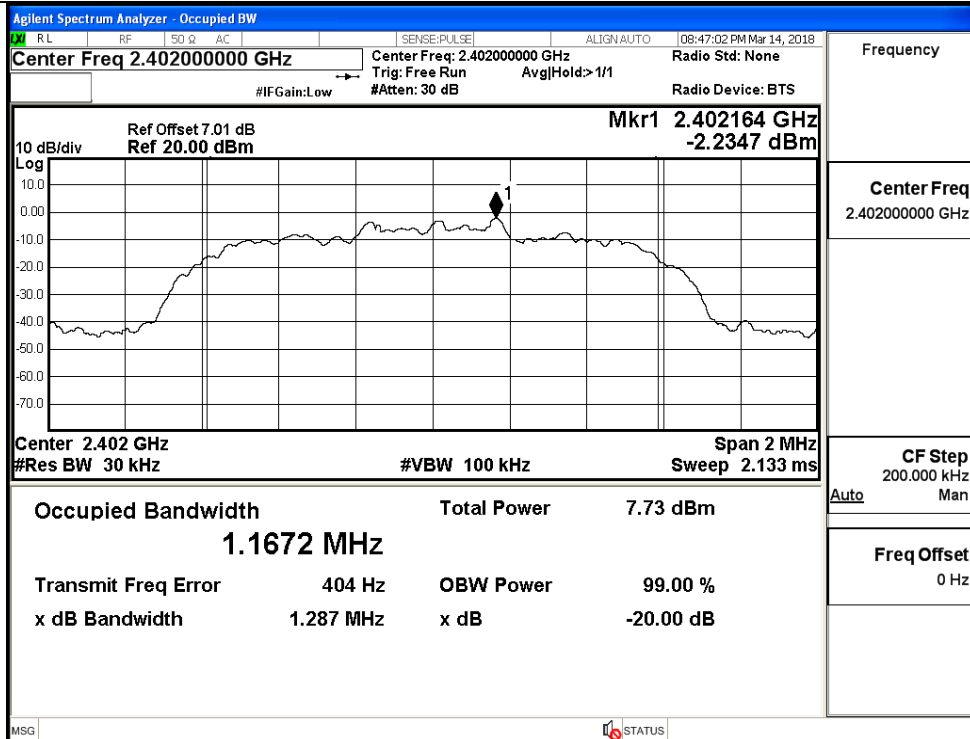
GFSK/MCH



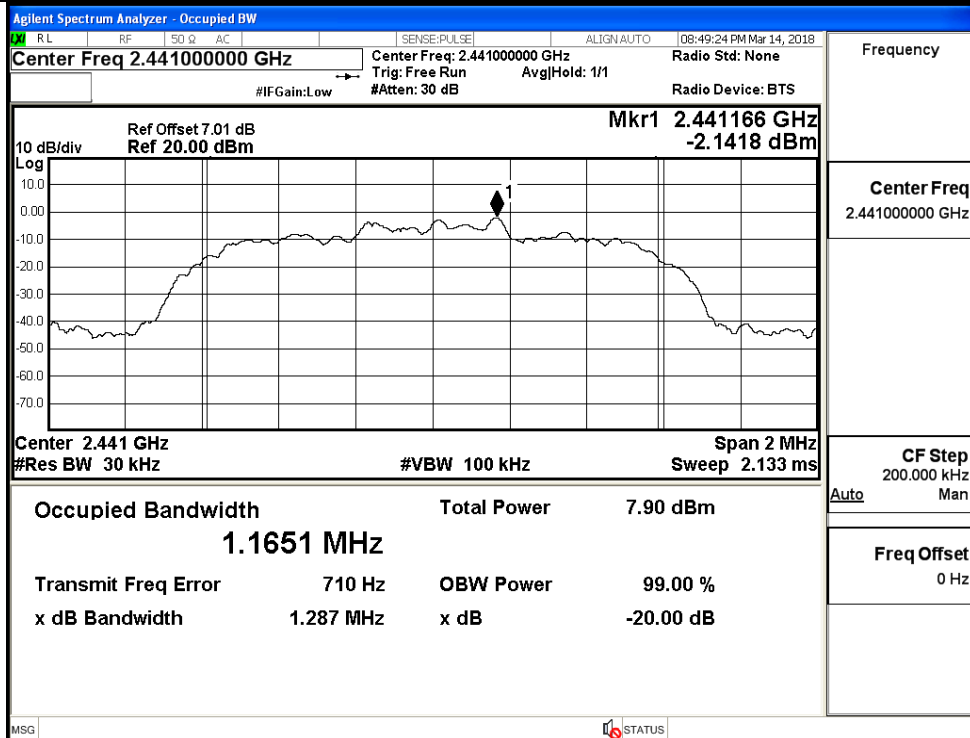
GFSK/HCH



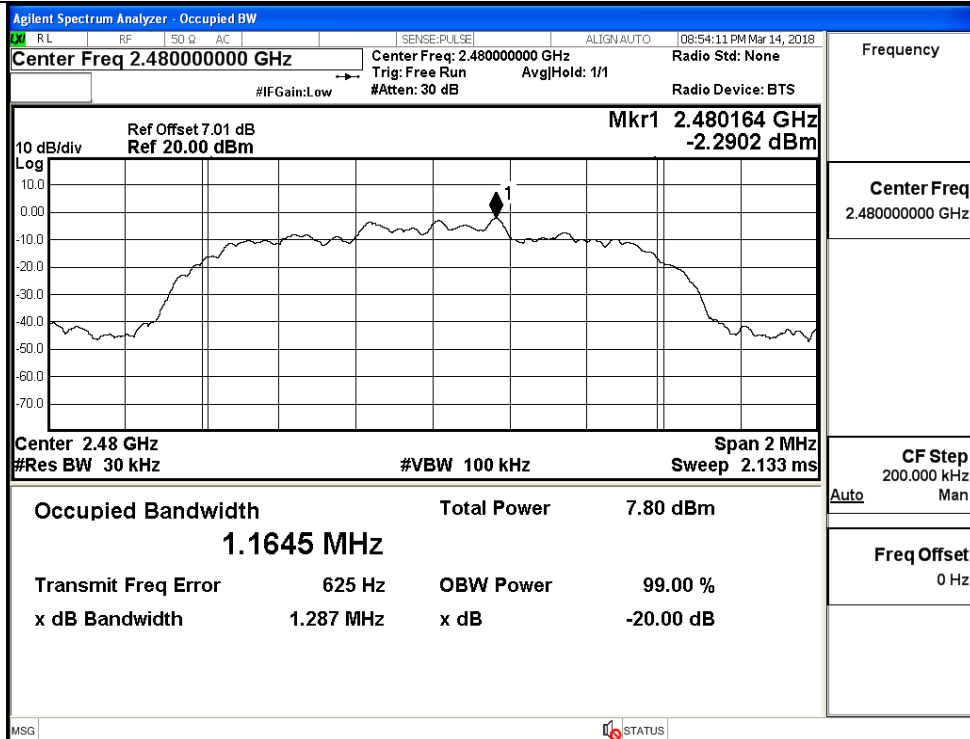
$\pi/4$ DQPSK/LCH



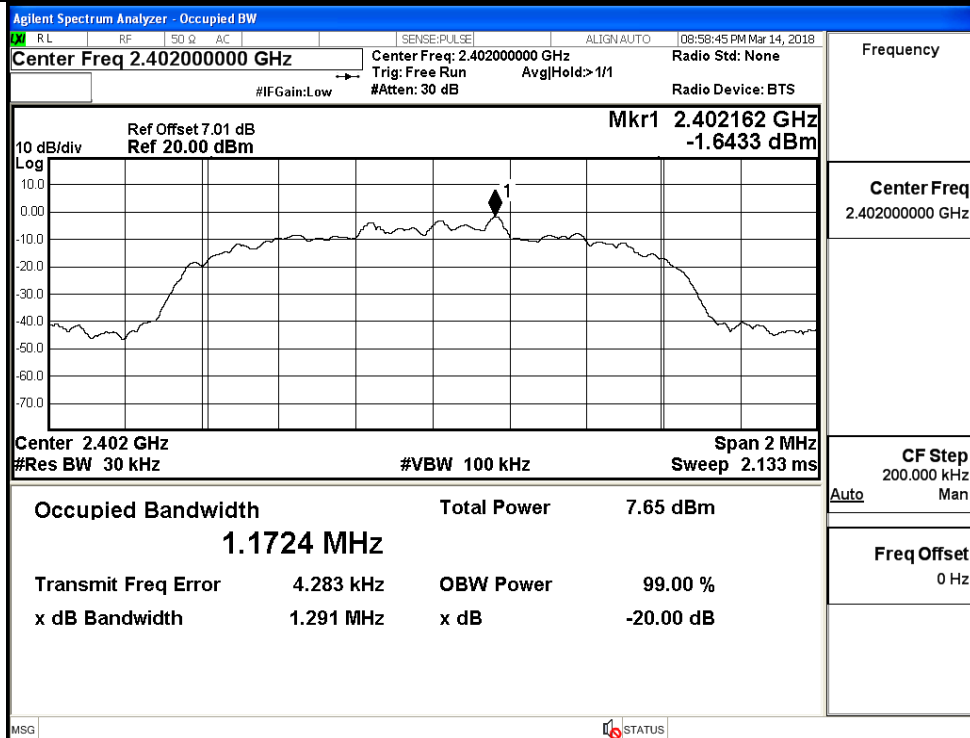
$\pi/4$ DQPSK/MCH



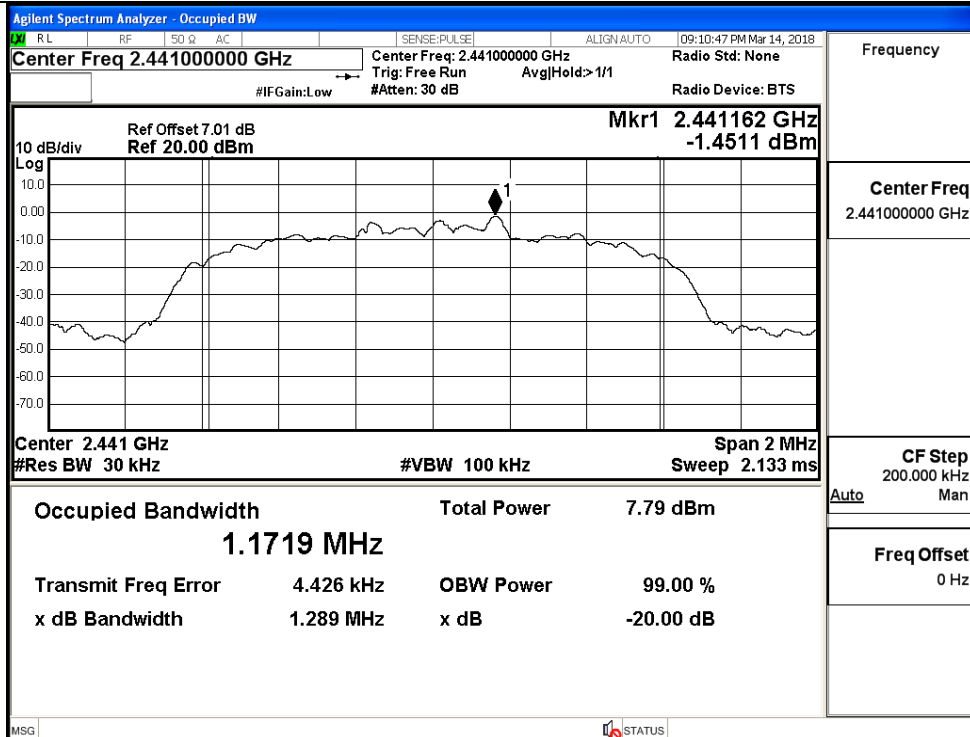
$\pi/4$ DQPSK/HCH



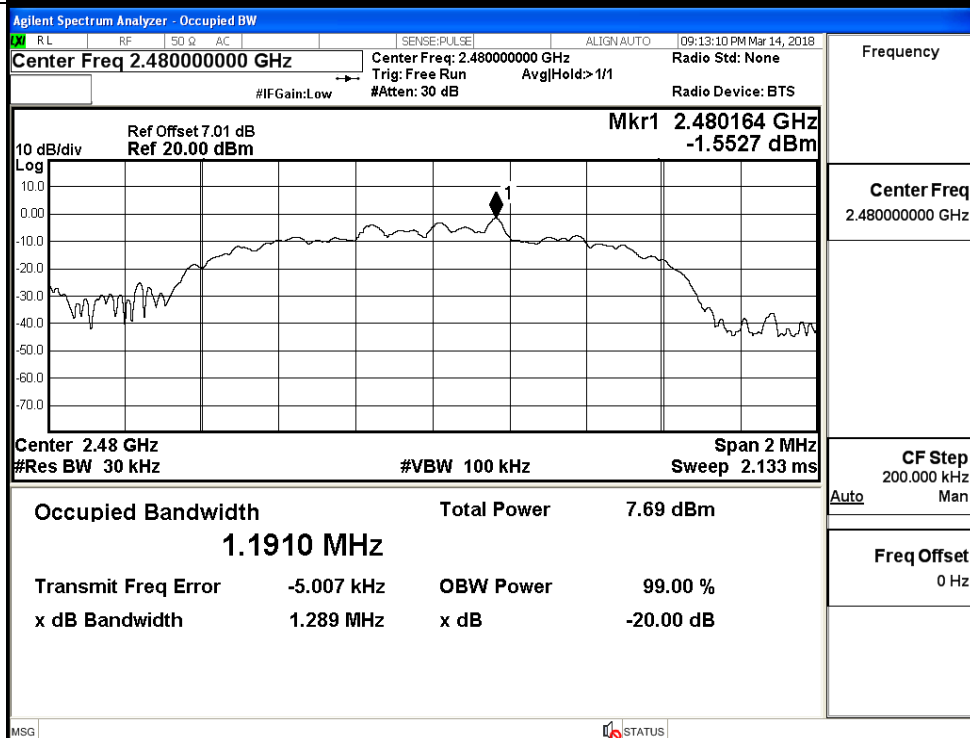
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

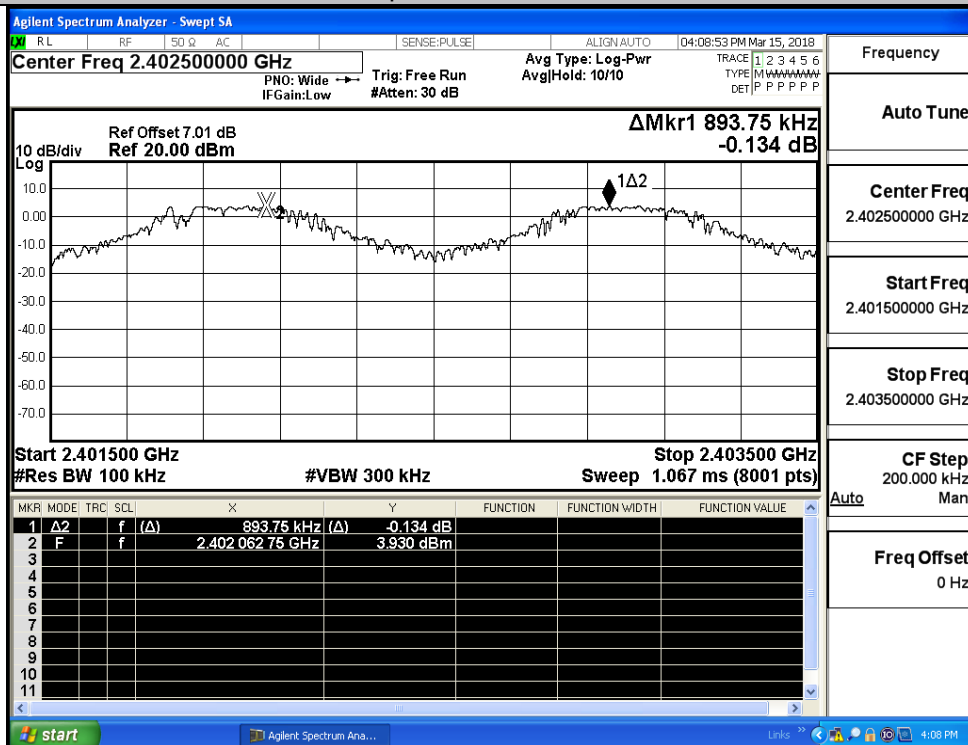


A.3 Carrier Frequency Separation

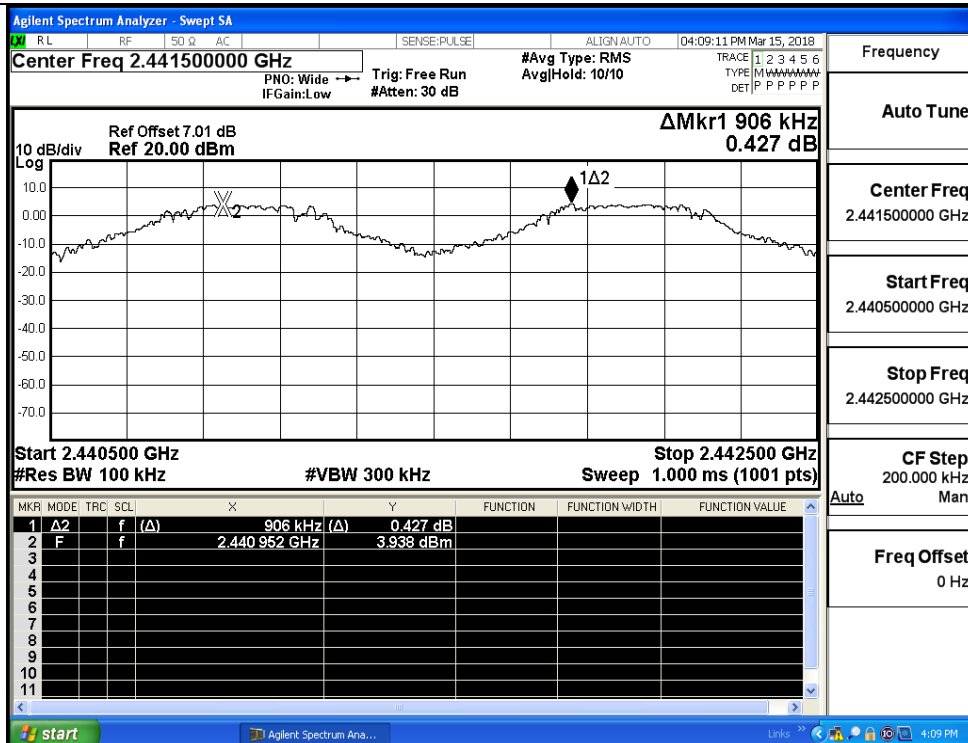
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.894	0.687	PASS
	MCH	0.906	0.687	PASS
	HCH	1.108	0.687	PASS
$\pi/4$ DQPSK	LCH	1.314	0.858	PASS
	MCH	1.126	0.858	PASS
	HCH	1.320	0.858	PASS
8DPSK	LCH	0.994	0.861	PASS
	MCH	0.890	0.861	PASS
	HCH	1.090	0.861	PASS

Test Graphs

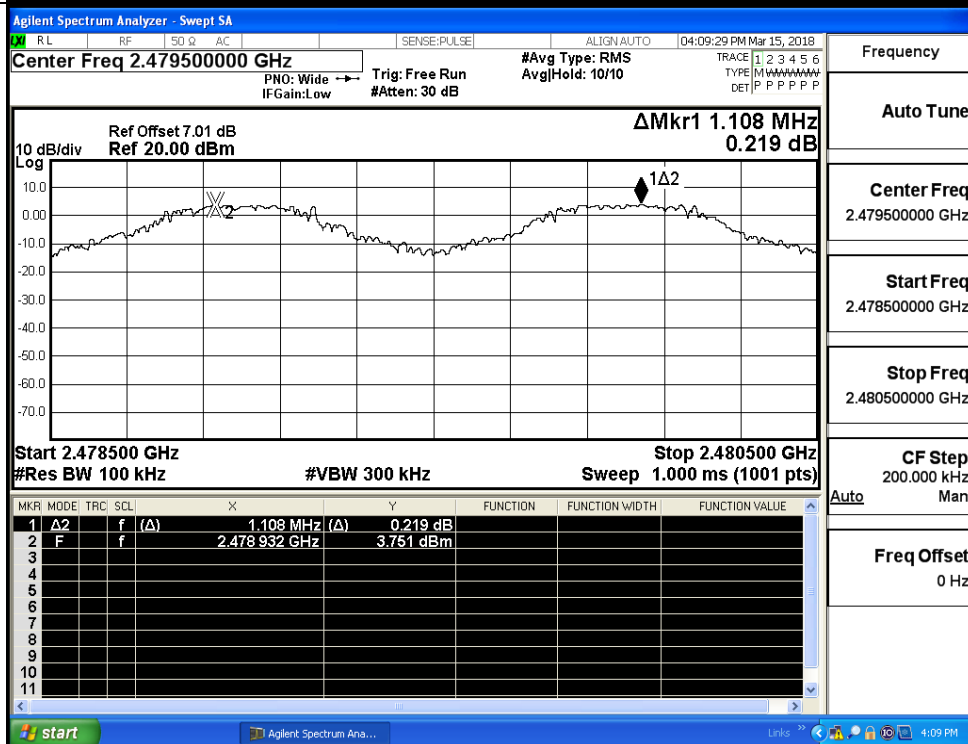
GFSK/LCH



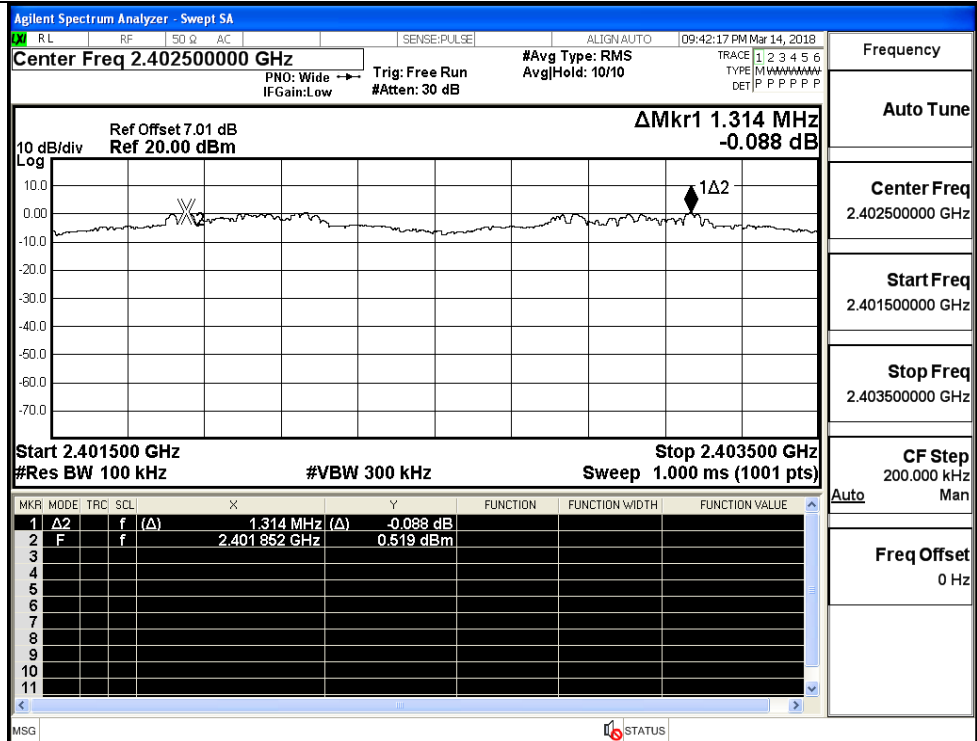
GFSK/MCH



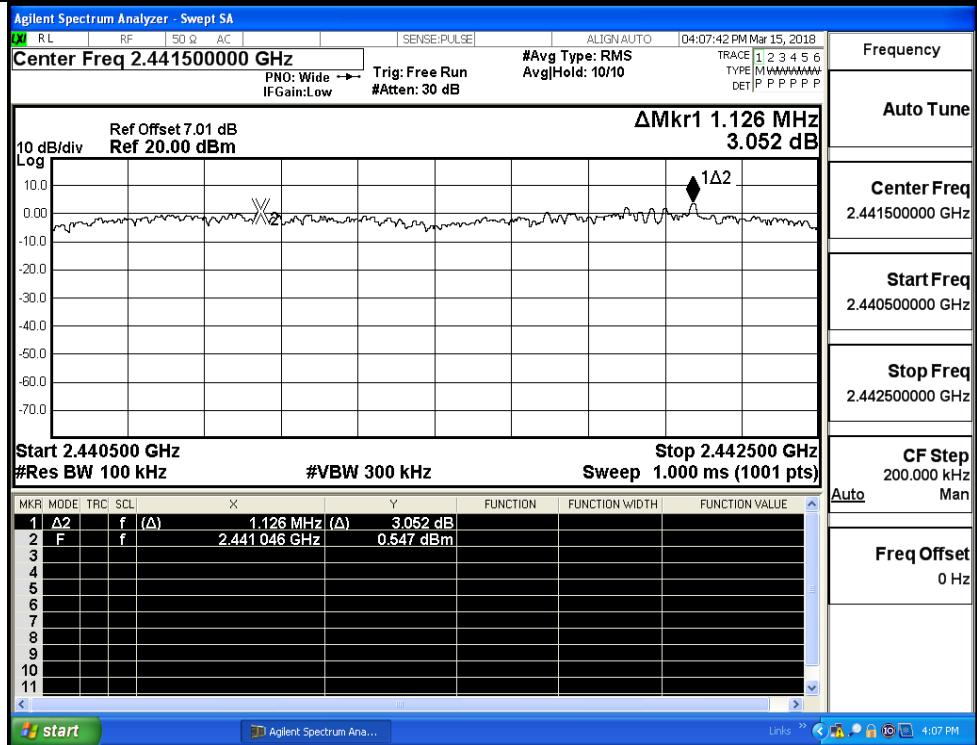
GFSK/HCH



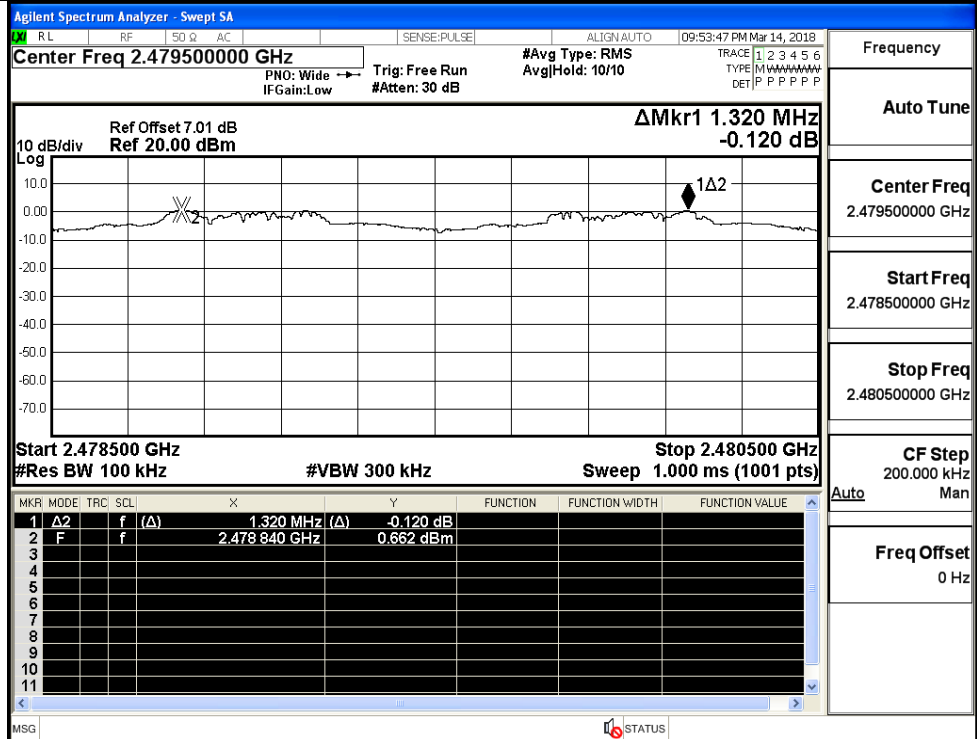
$\pi/4$ DQPSK/LCH



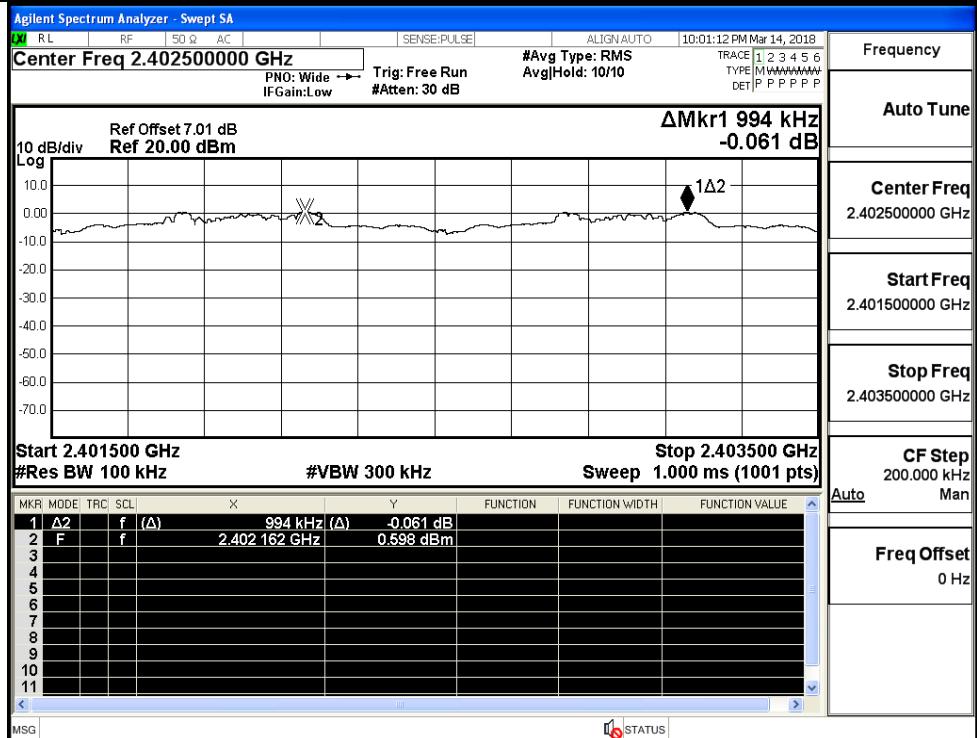
$\pi/4$ DQPSK/MCH



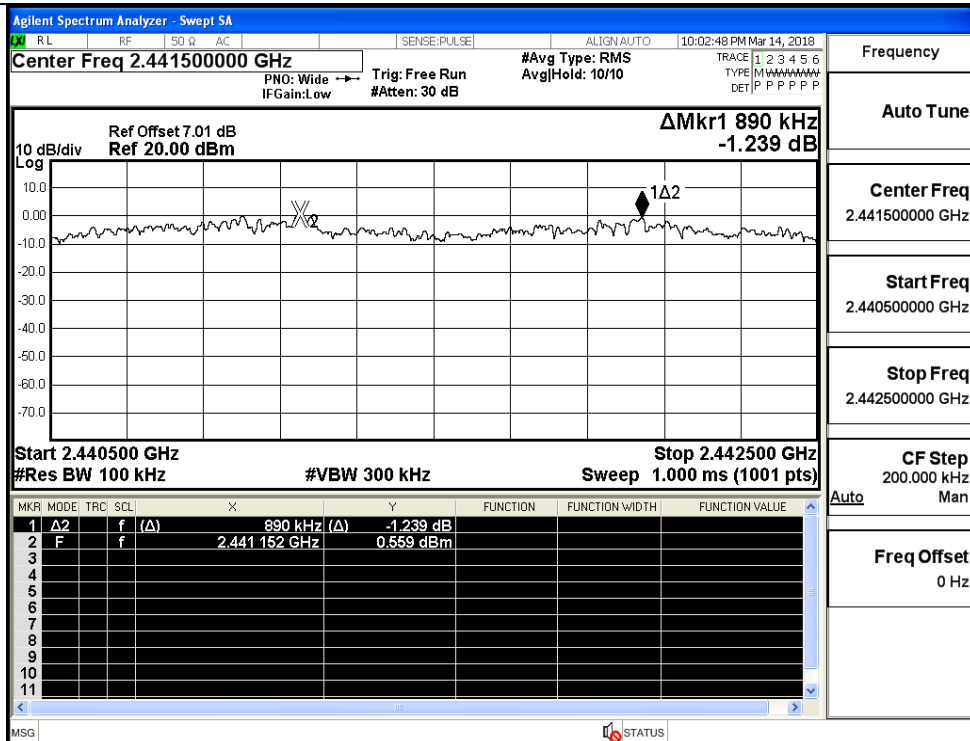
$\pi/4$ DQPSK/HCH



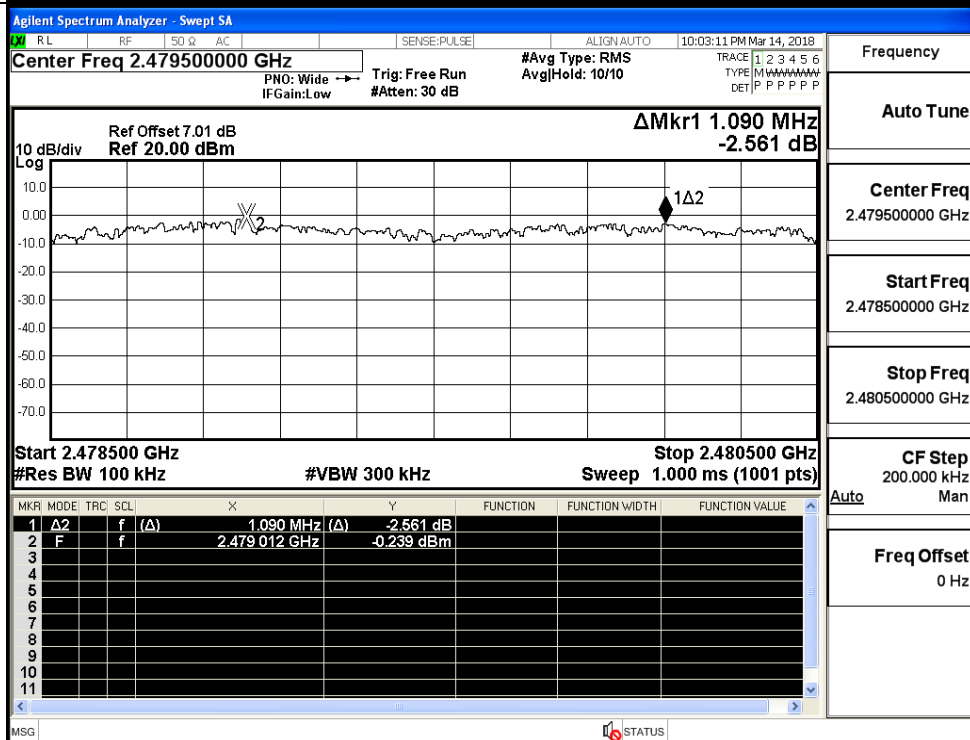
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

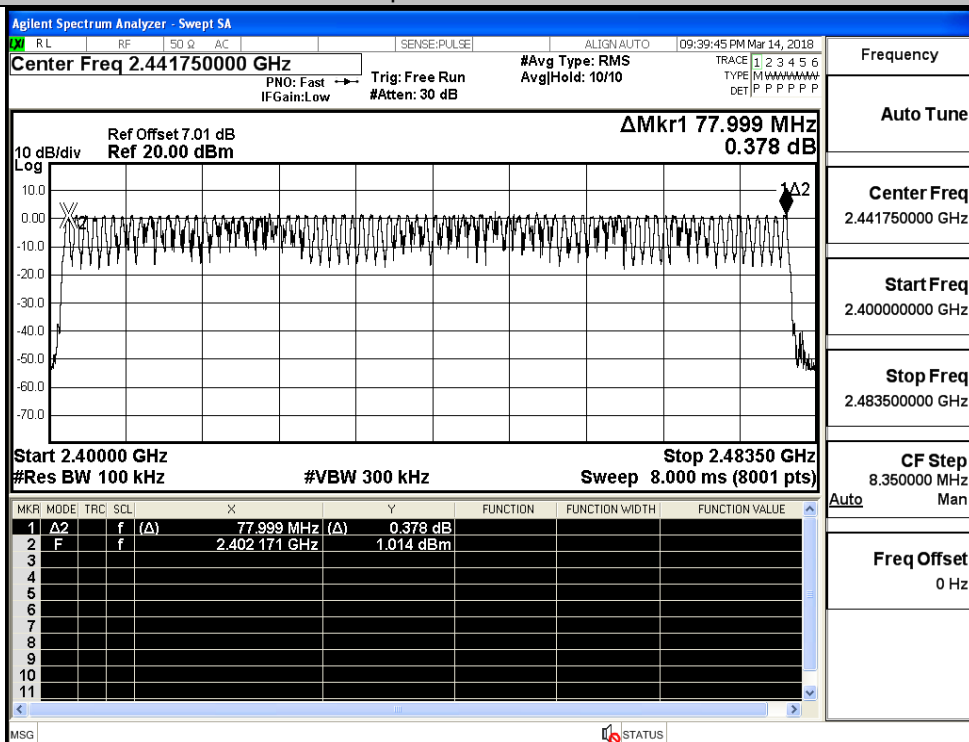
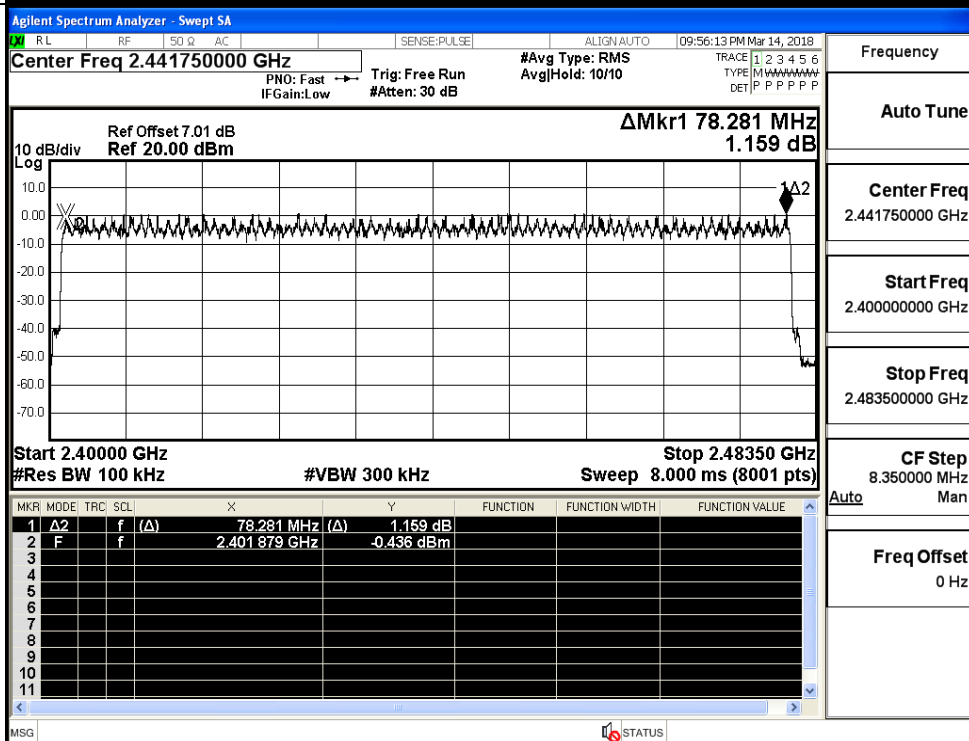


A.4 Hopping Channel Number

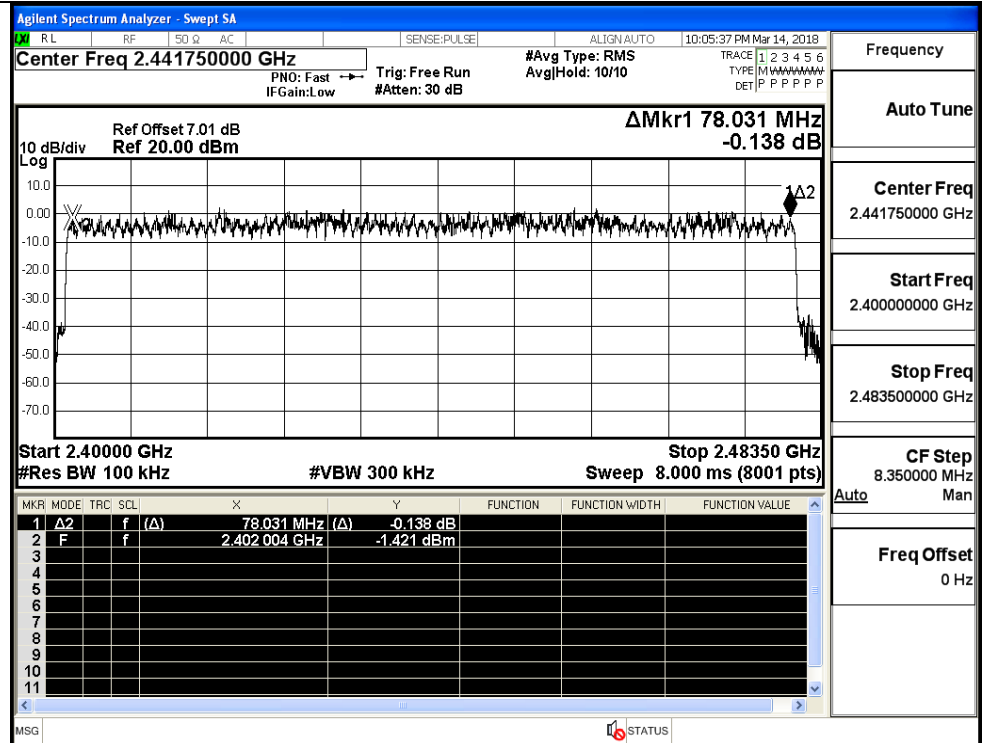
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

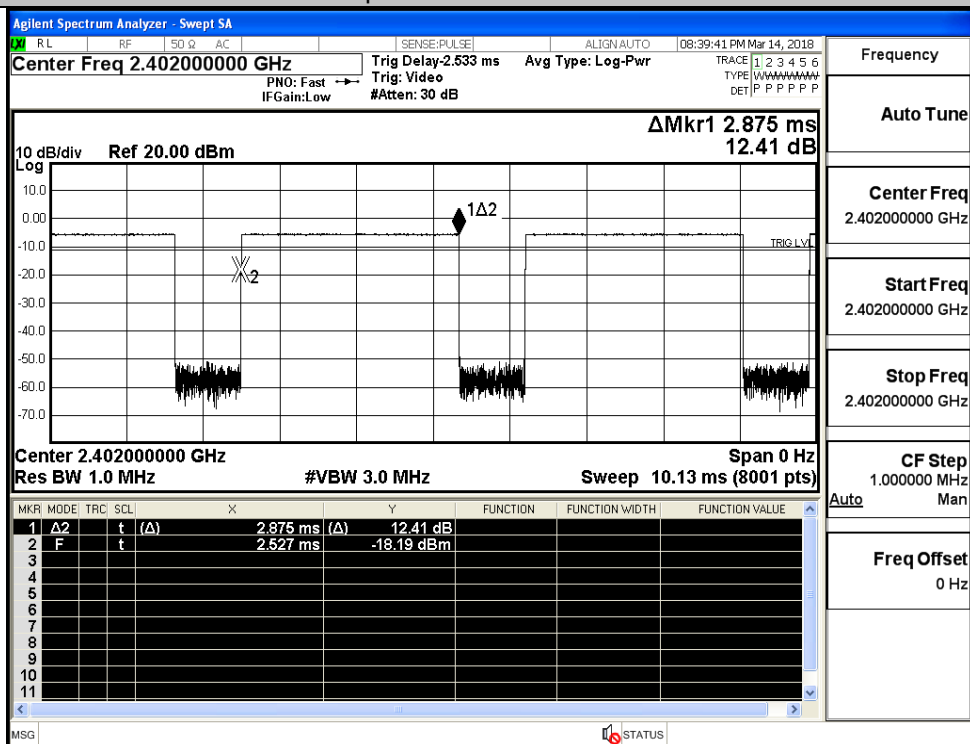


A.5 Dwell Time

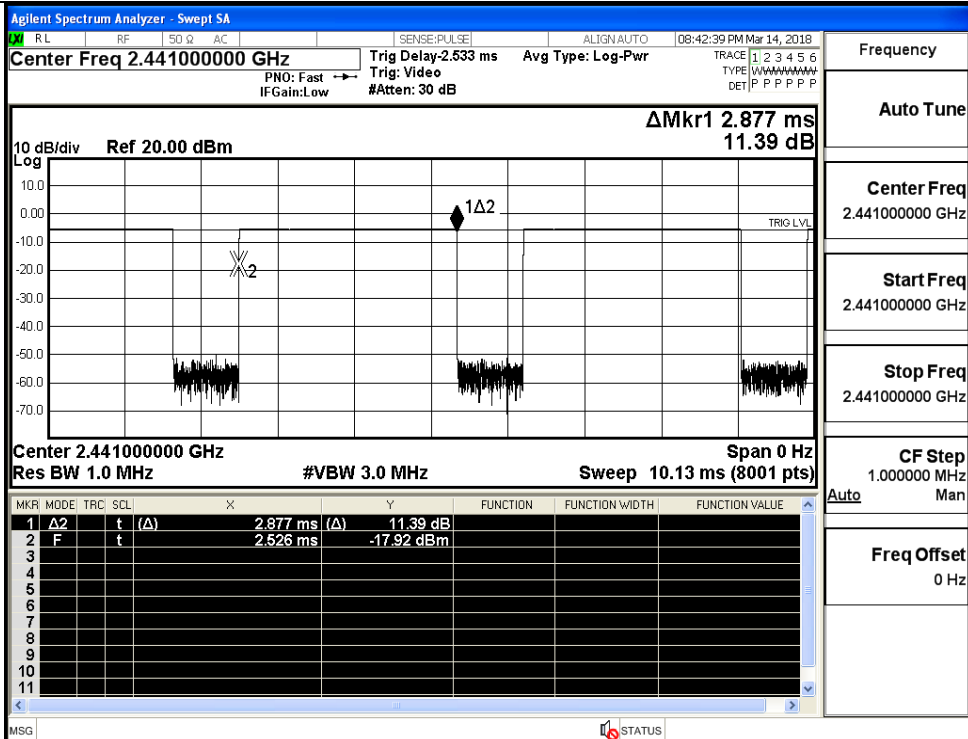
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88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

Test Graphs

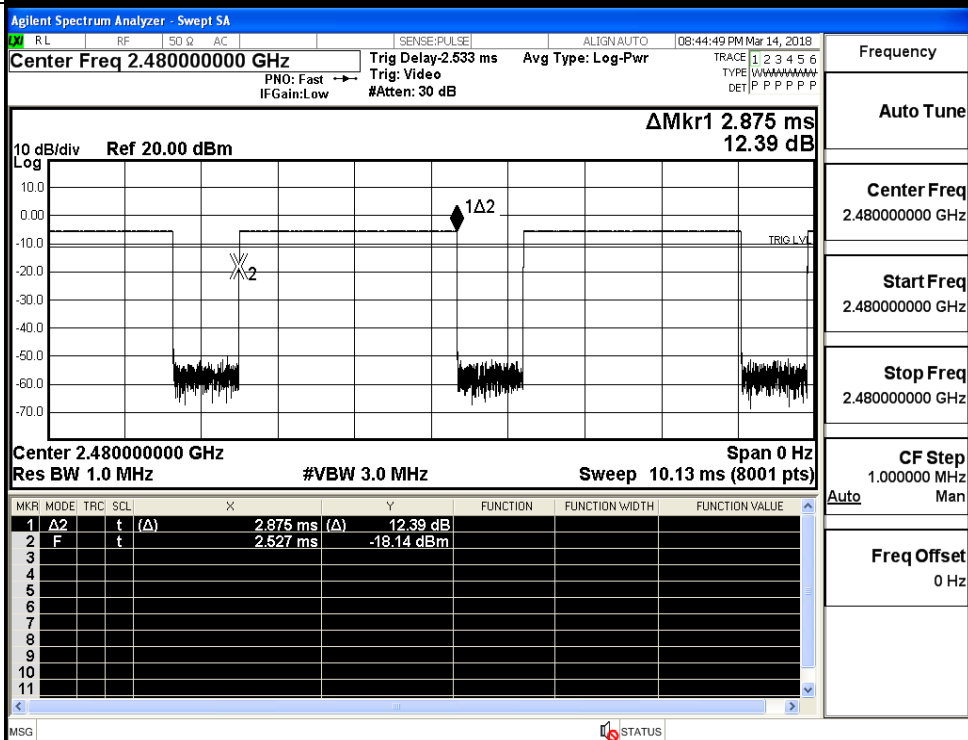
GFSK_DH5/LCH



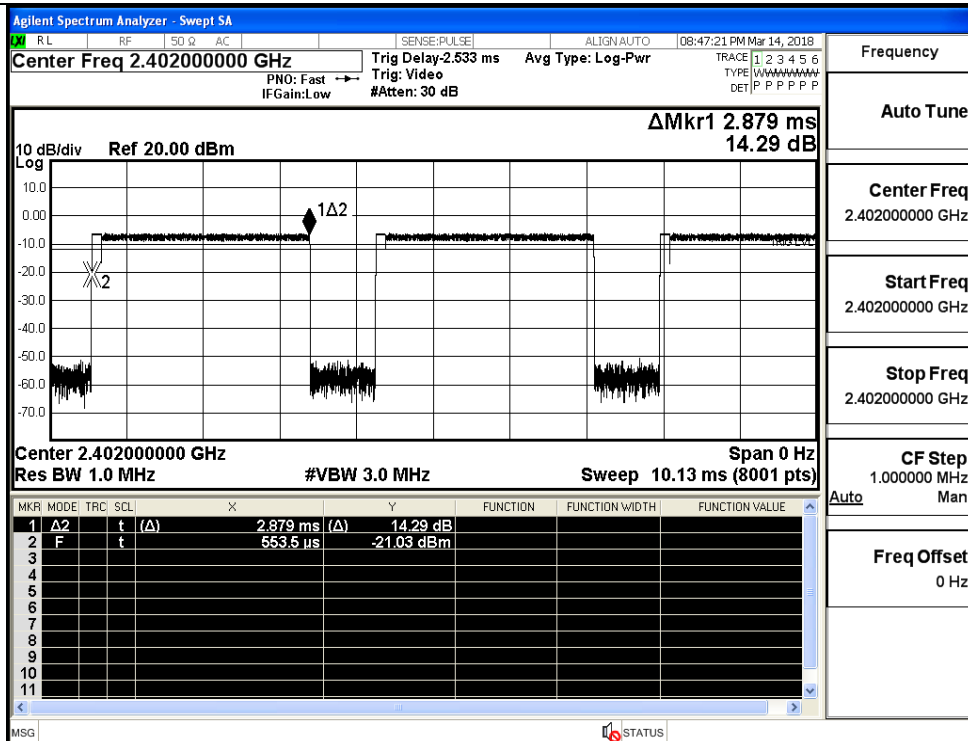
GFSK_DH5/MCH



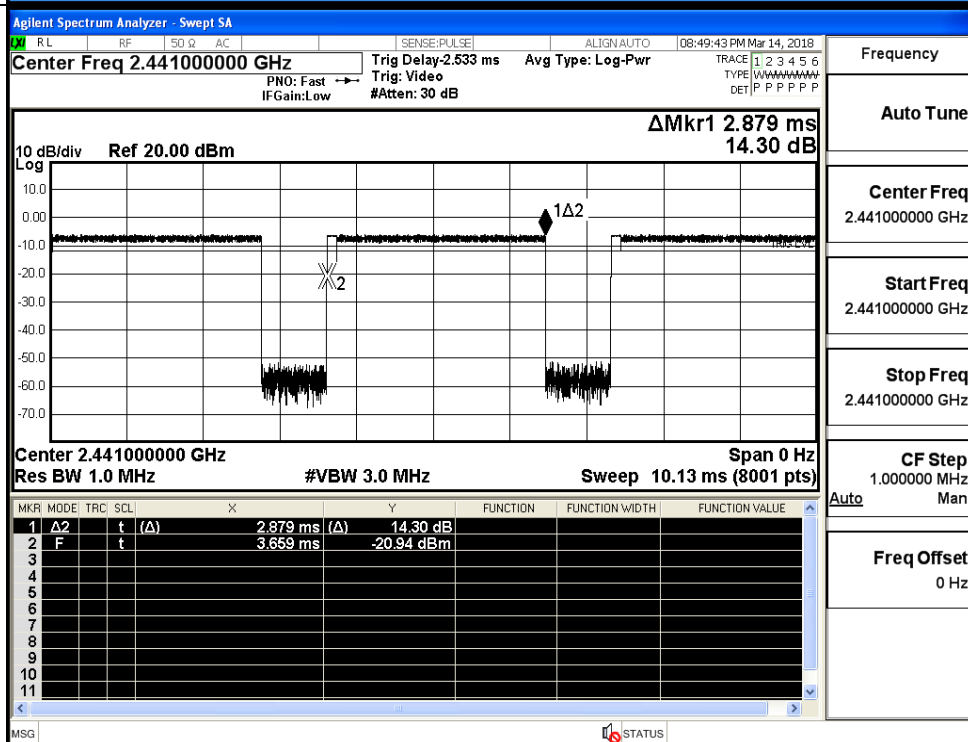
GFSK_DH5/HCH



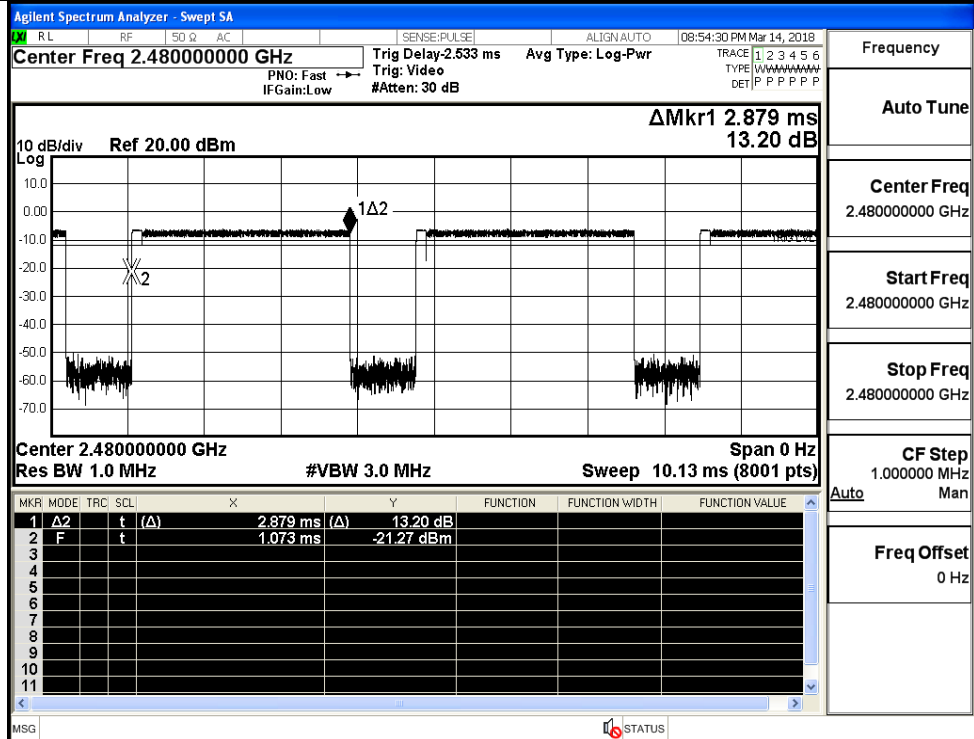
$\pi/4$ DQPSK
_2DH5/LCH



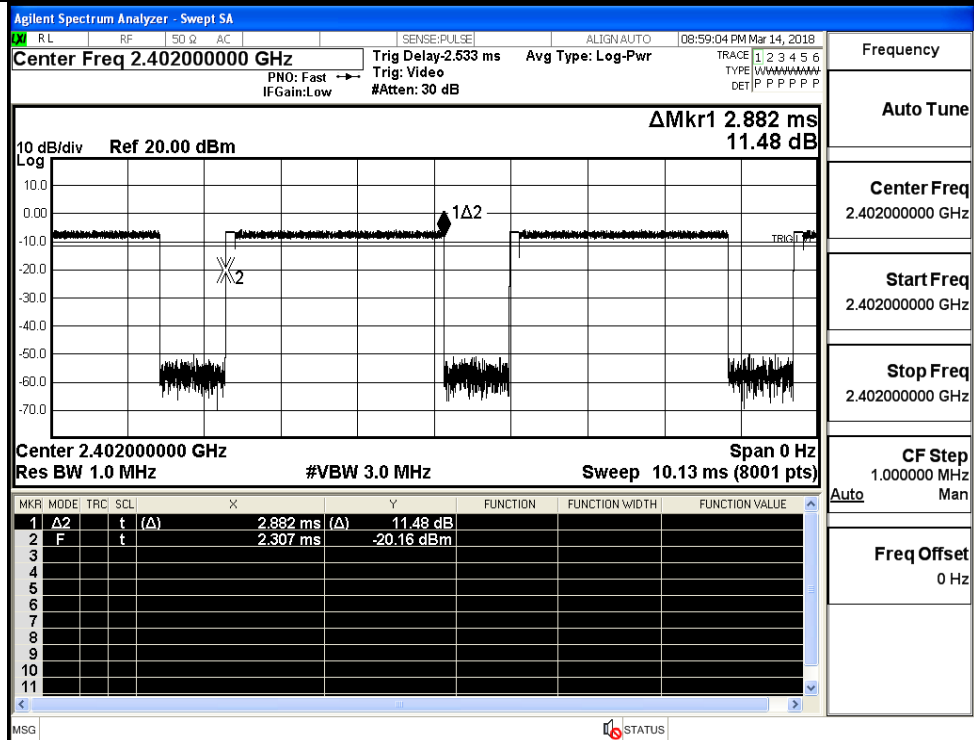
$\pi/4$ DQPSK
_2DH5/MCH



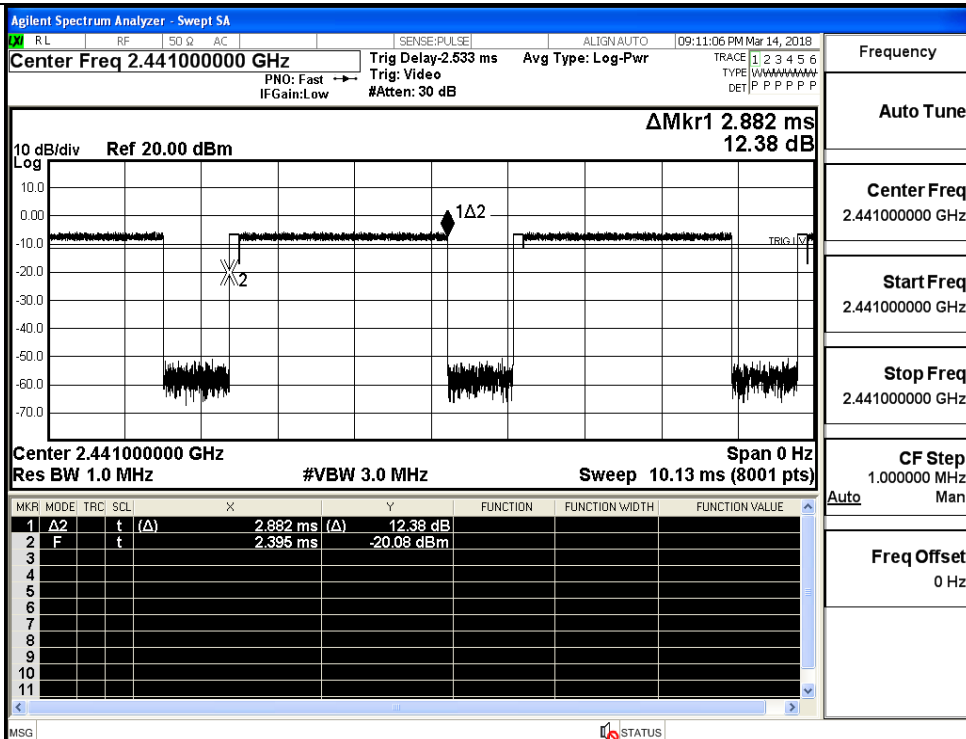
$\pi/4$ DQPSK
_2DH5/HCH



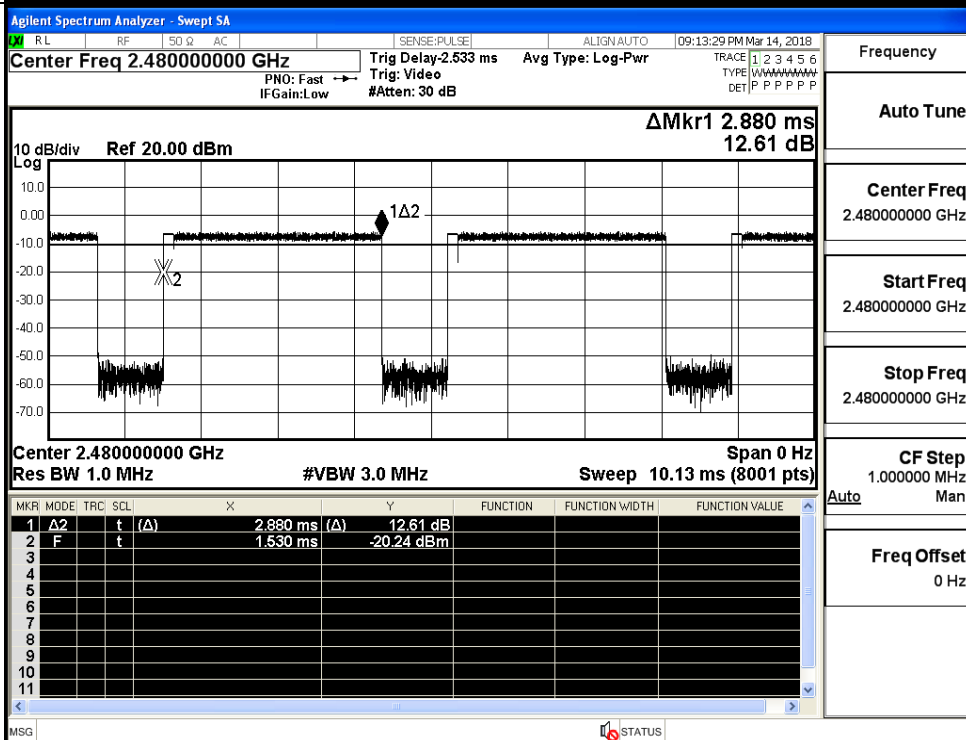
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



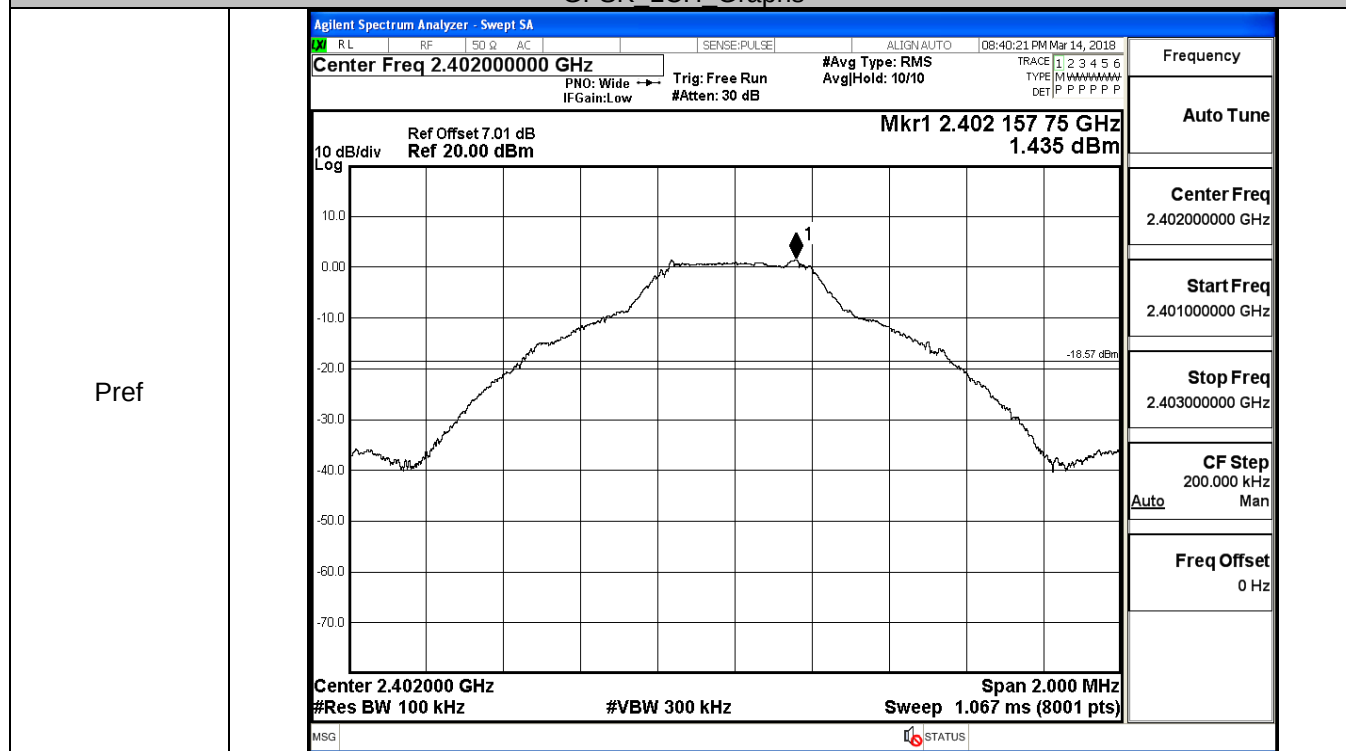
8DPSK_3DH5/HCH

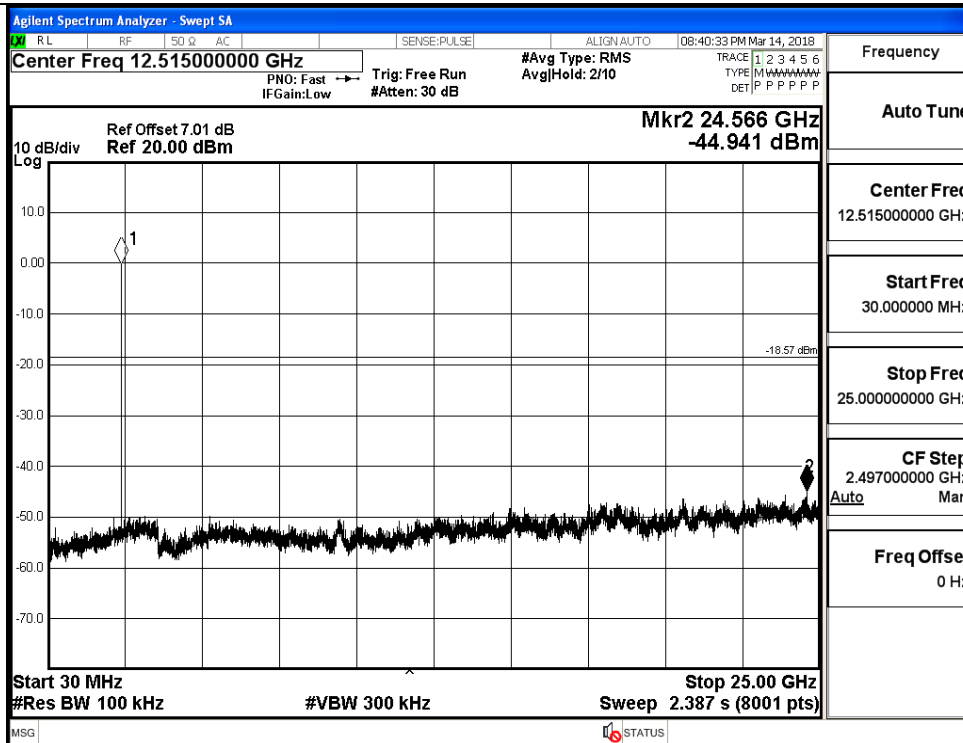


A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.435	-44.941	-18.565	PASS
	MCH	1.523	-45.778	-18.477	PASS
	HCH	0.935	-45.453	-19.065	PASS
$\pi/4$ DQPSK	LCH	0.326	-45.923	-19.674	PASS
	MCH	0.759	-45.935	-19.241	PASS
	HCH	0.574	-44.952	-19.426	PASS
8DPSK	LCH	0.493	-45.891	-19.507	PASS
	MCH	0.658	-45.169	-19.342	PASS
	HCH	0.487	-45.543	-19.513	PASS

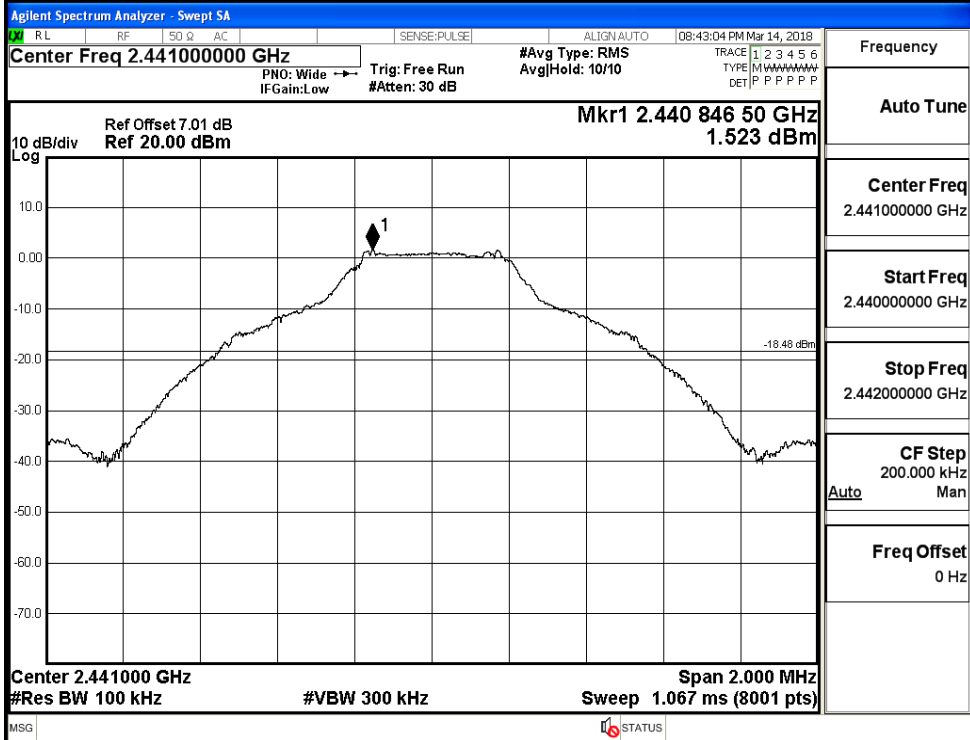
GFSK LCH Graphs



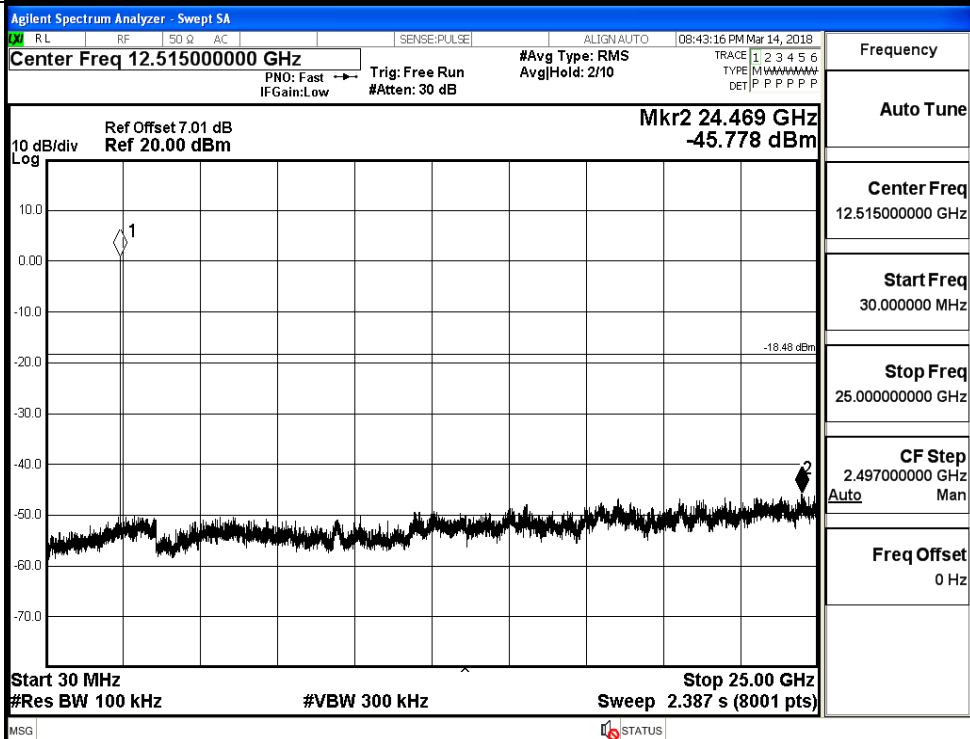


GFSK_MCH_Graphs

Pref

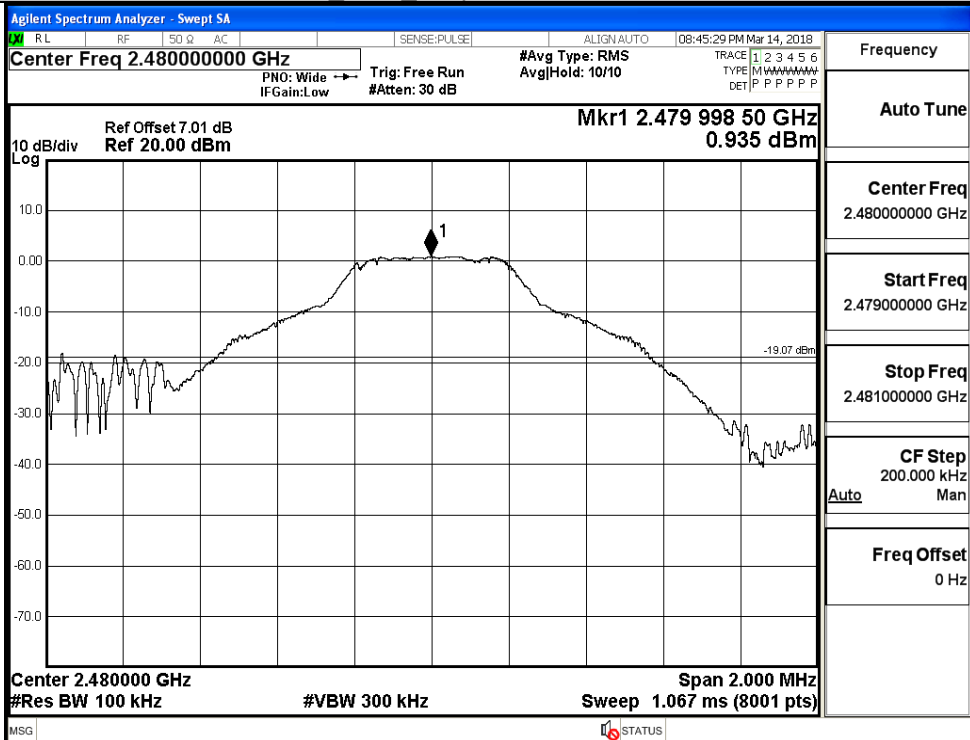


Puw

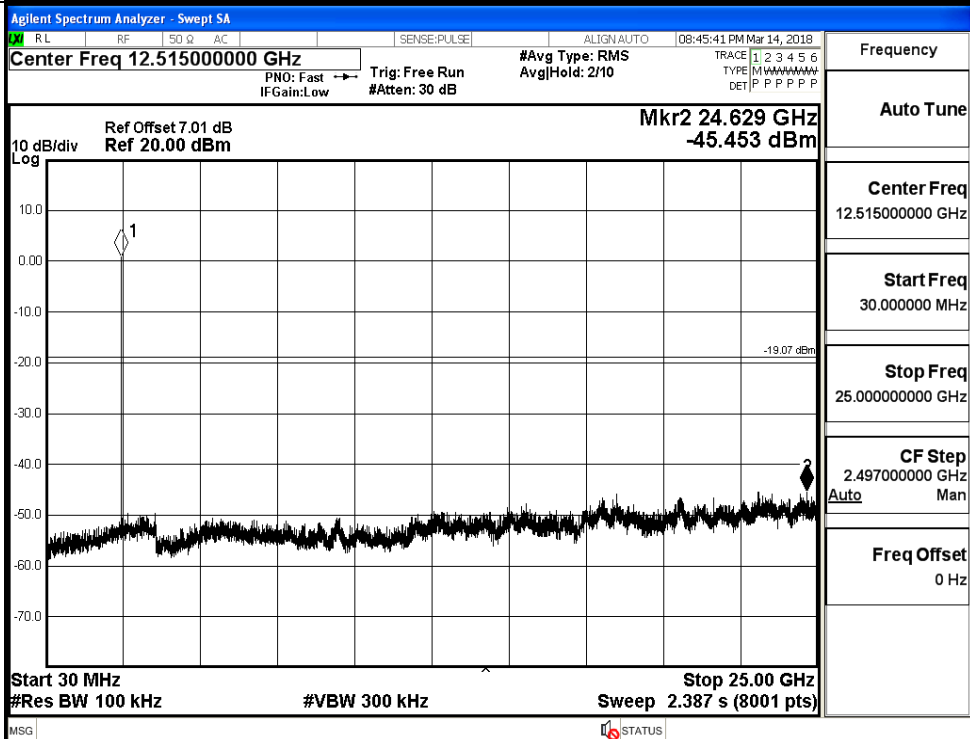


GFSK HCH Graphs

Pref

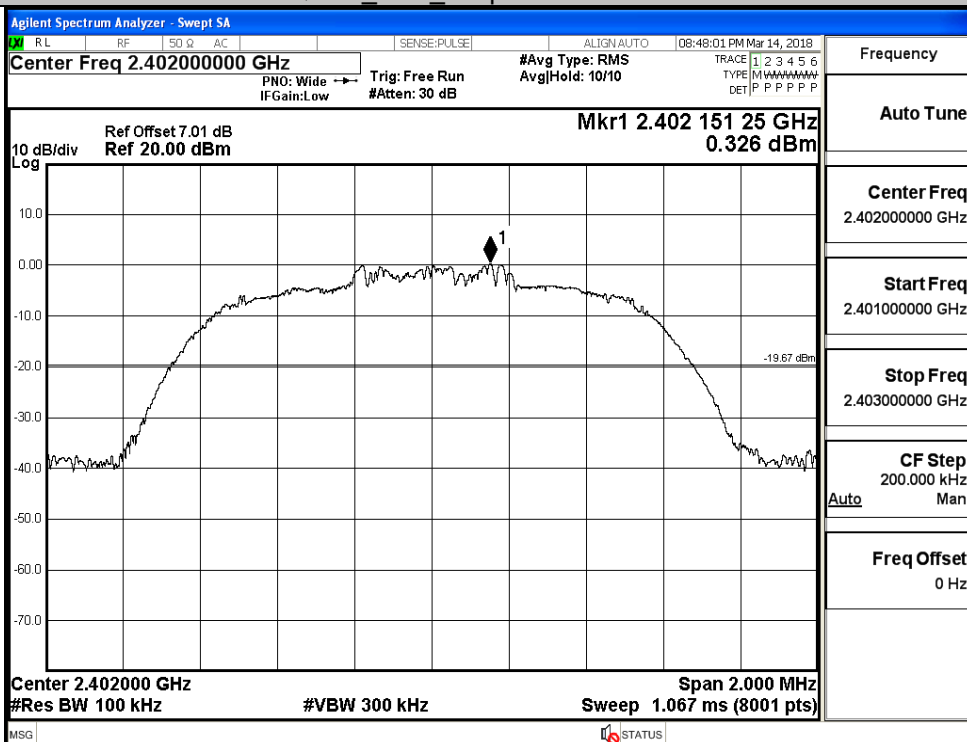


Puw

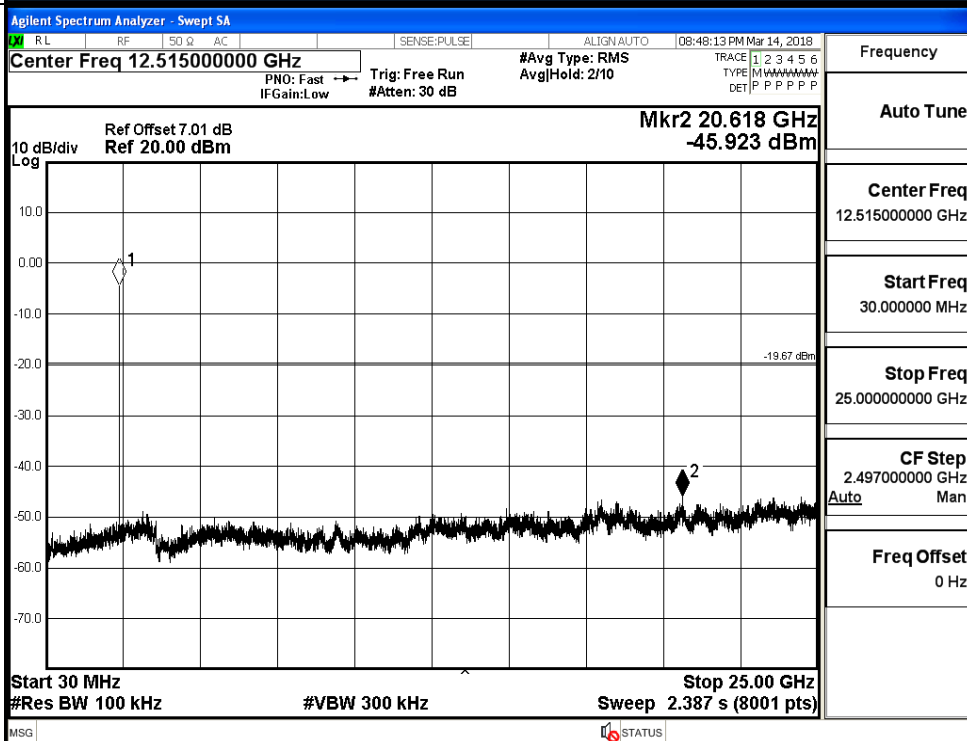


$\pi/4$ DQPSK_LCH_Graphs

Pref

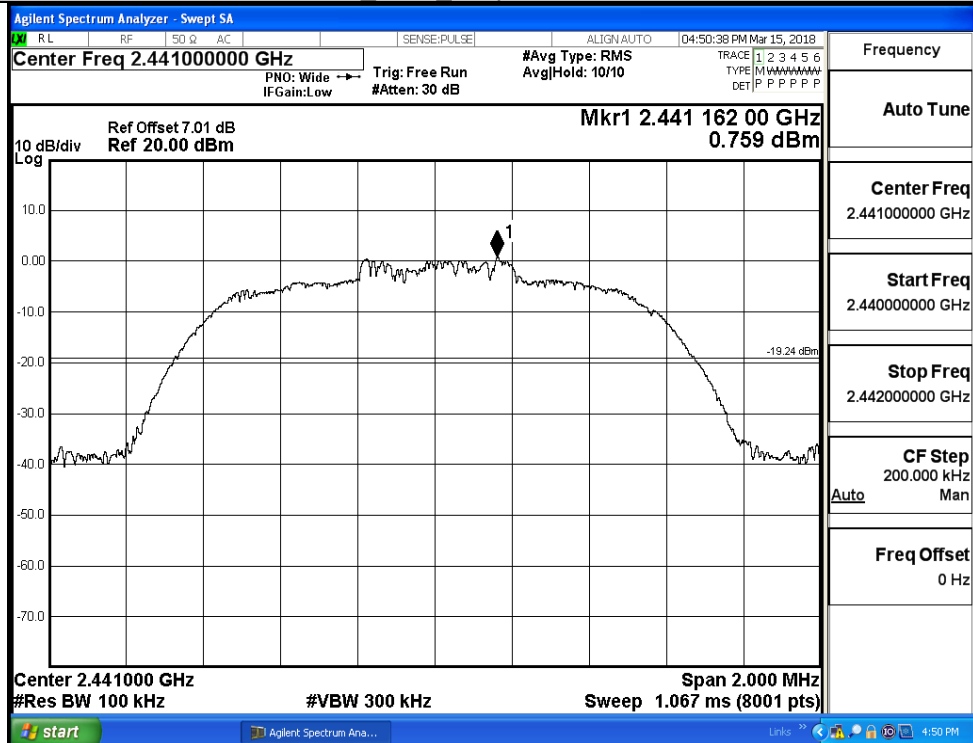


Puw

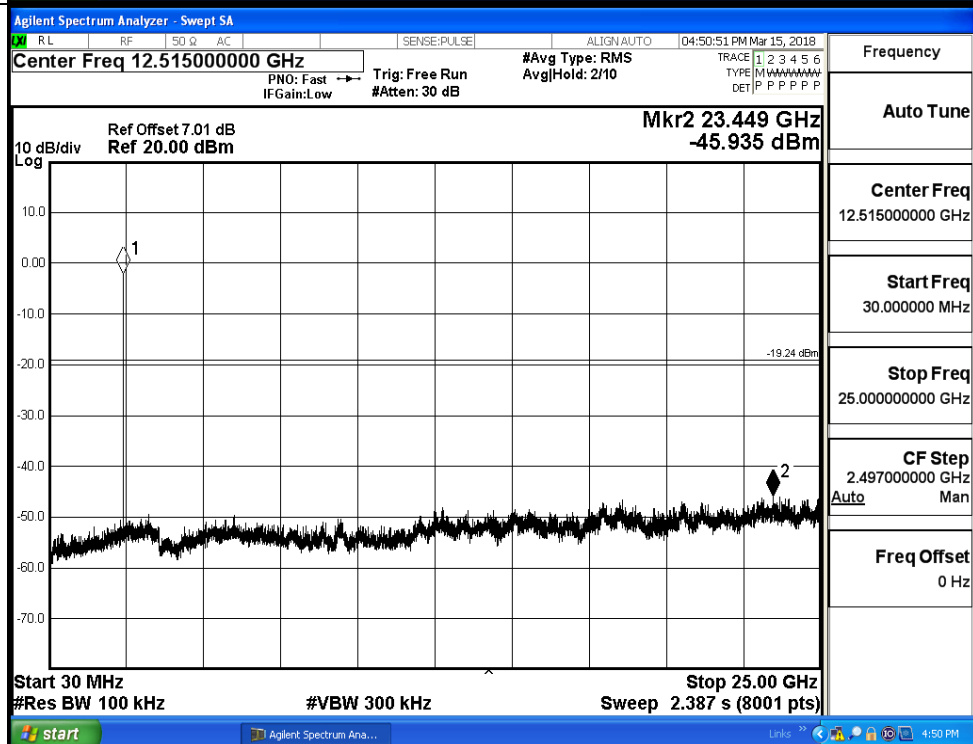


$\pi/4$ DQPSK_MCH_Graphs

Pref

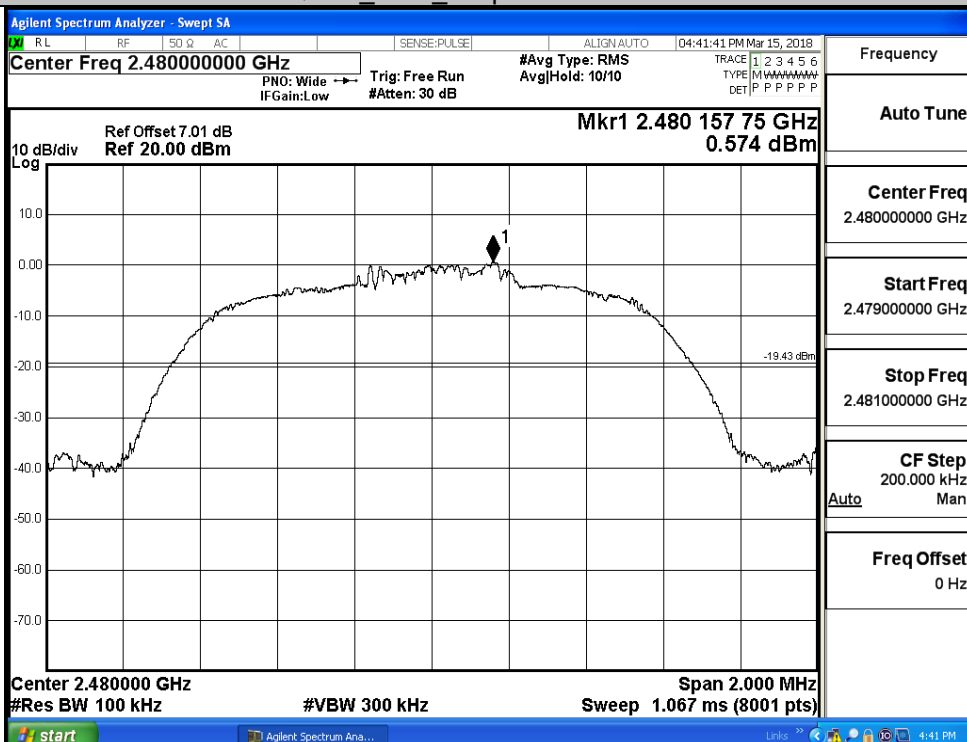


Puw

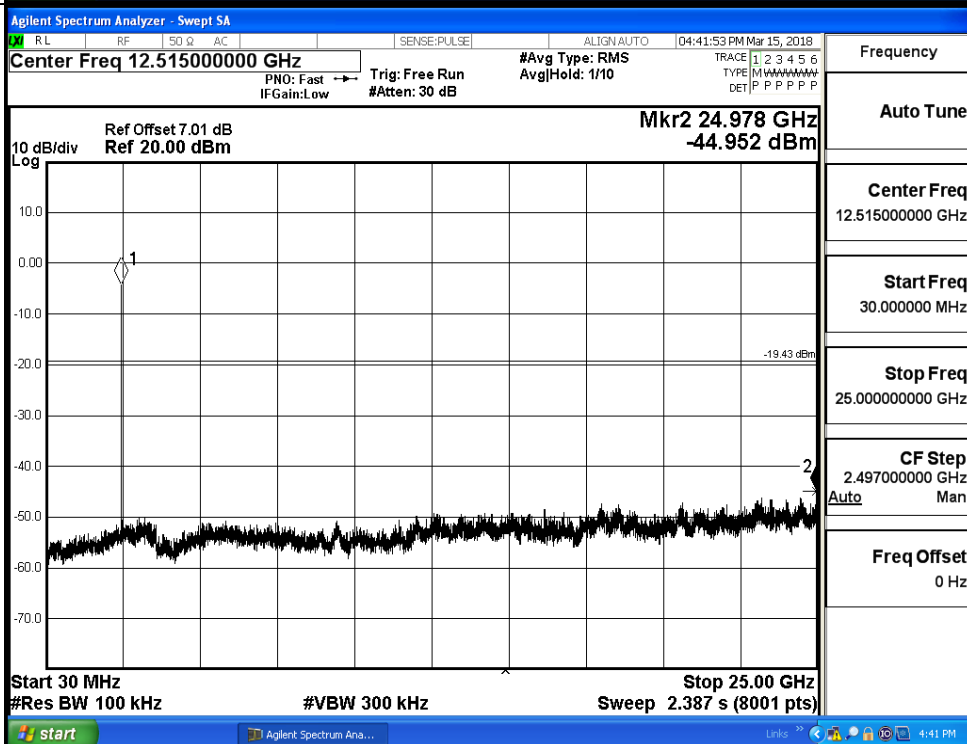


$\pi/4$ DQPSK_HCH_Graphs

Pref

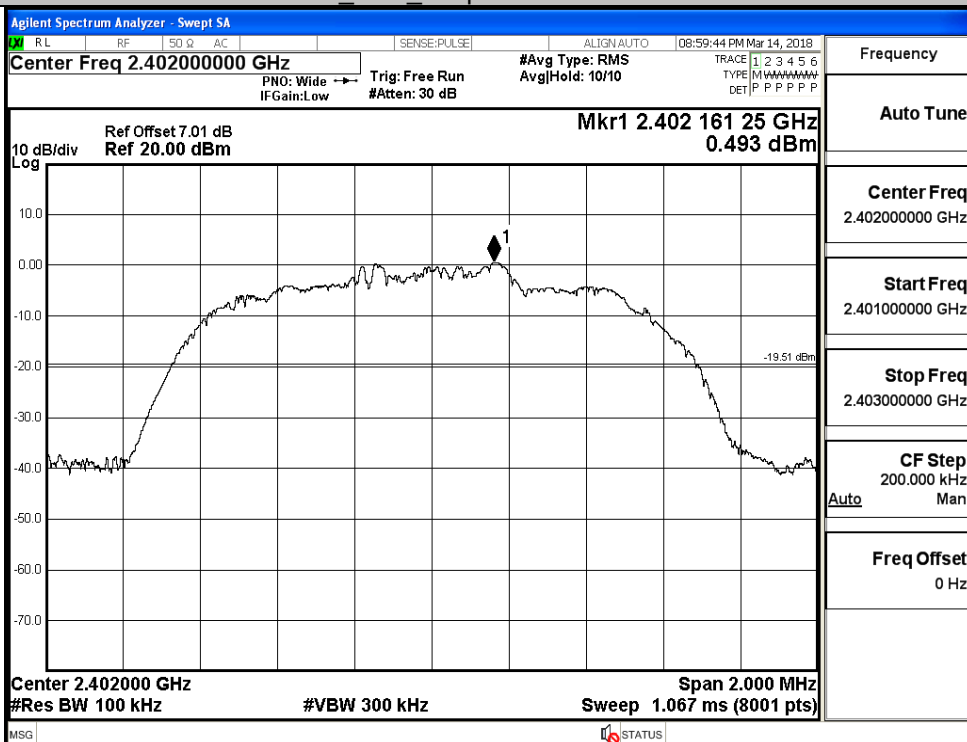


Puw

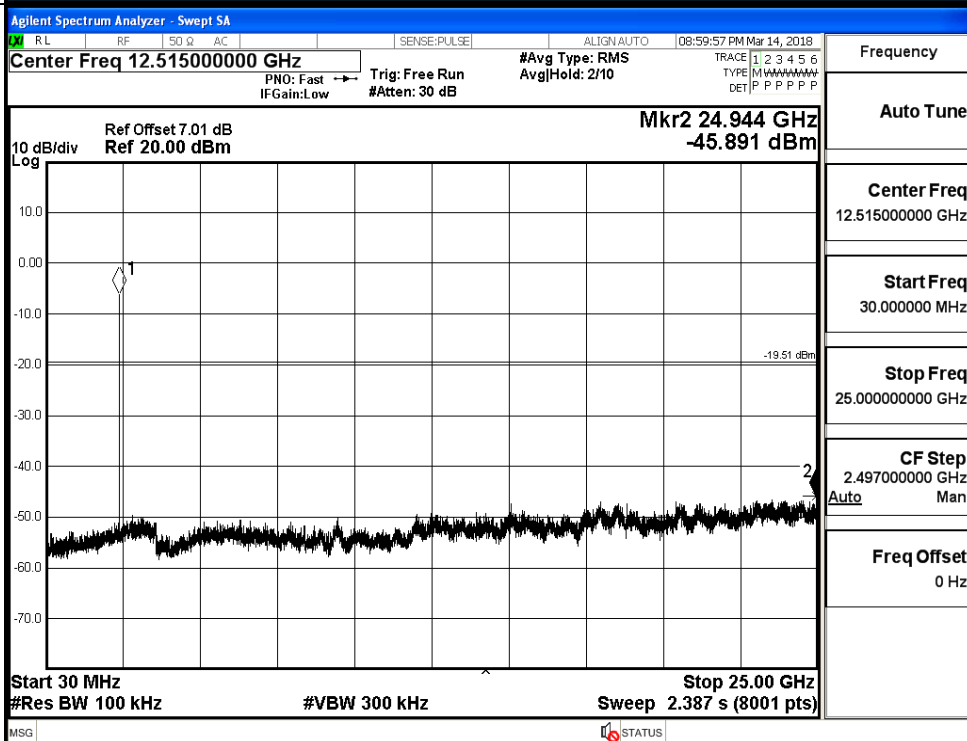


8DPSK_LCH_Graphs

Pref

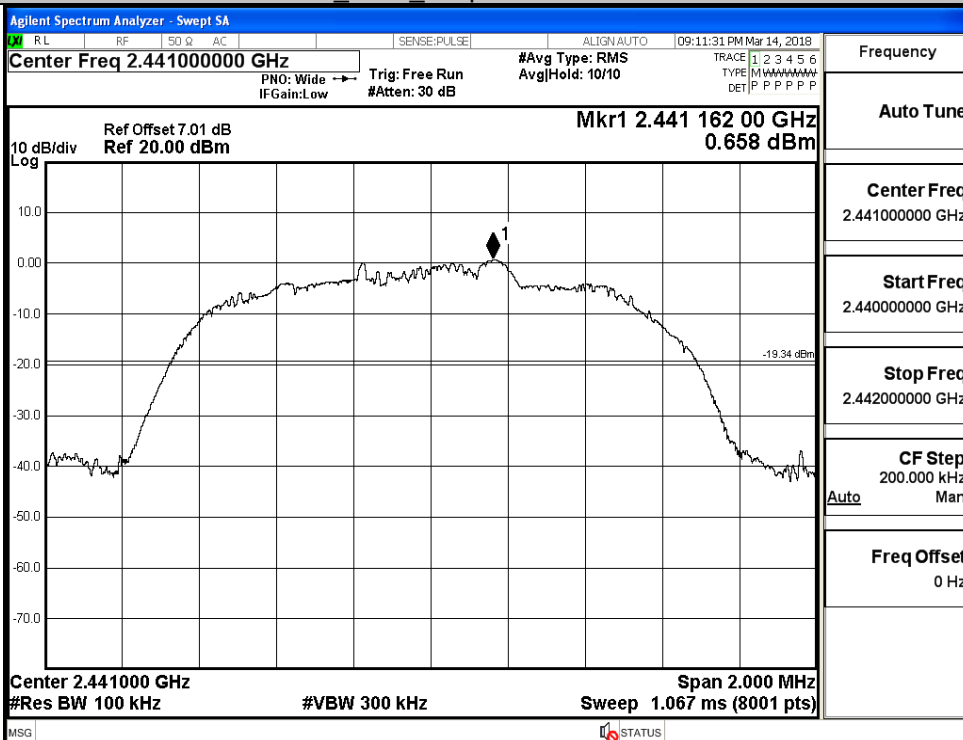


Puw

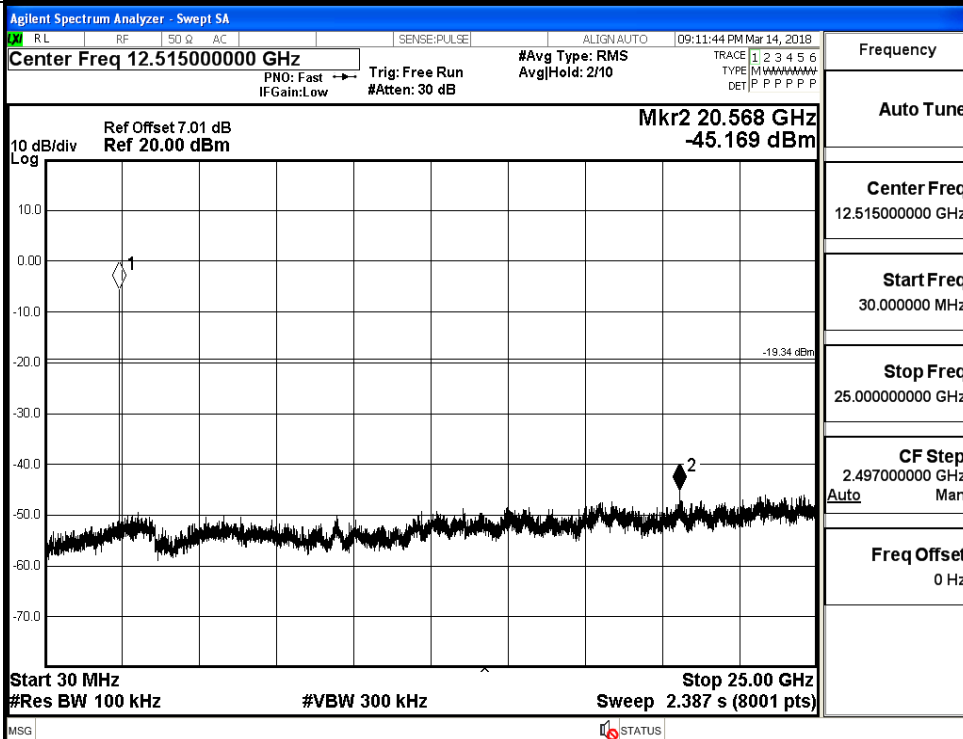


8DPSK_MCH_Graphs

Pref

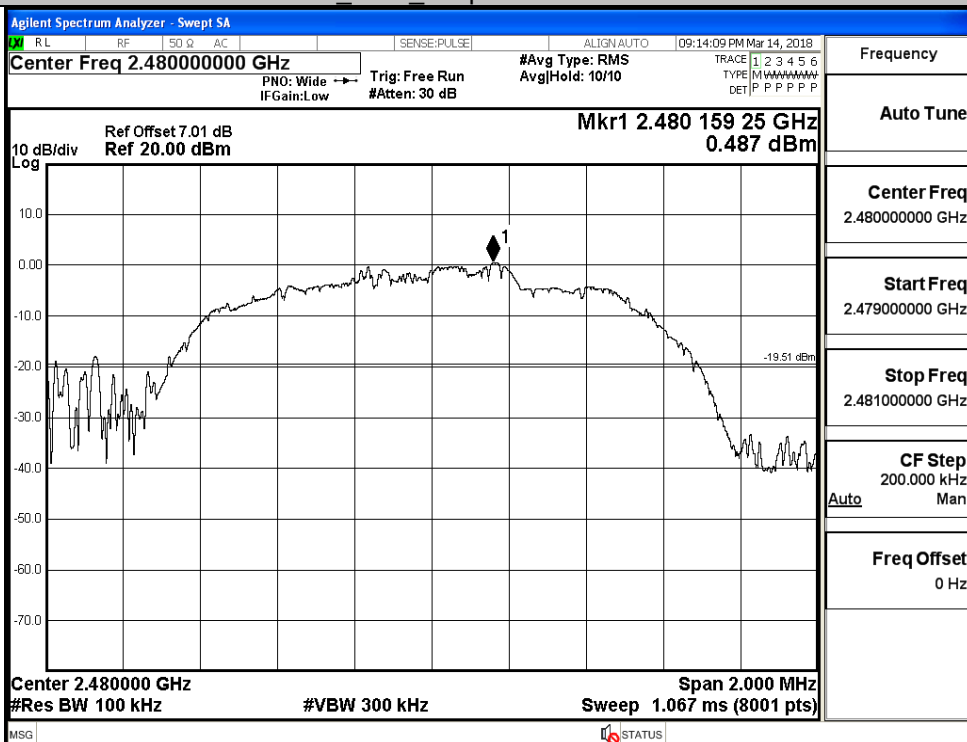


Puw

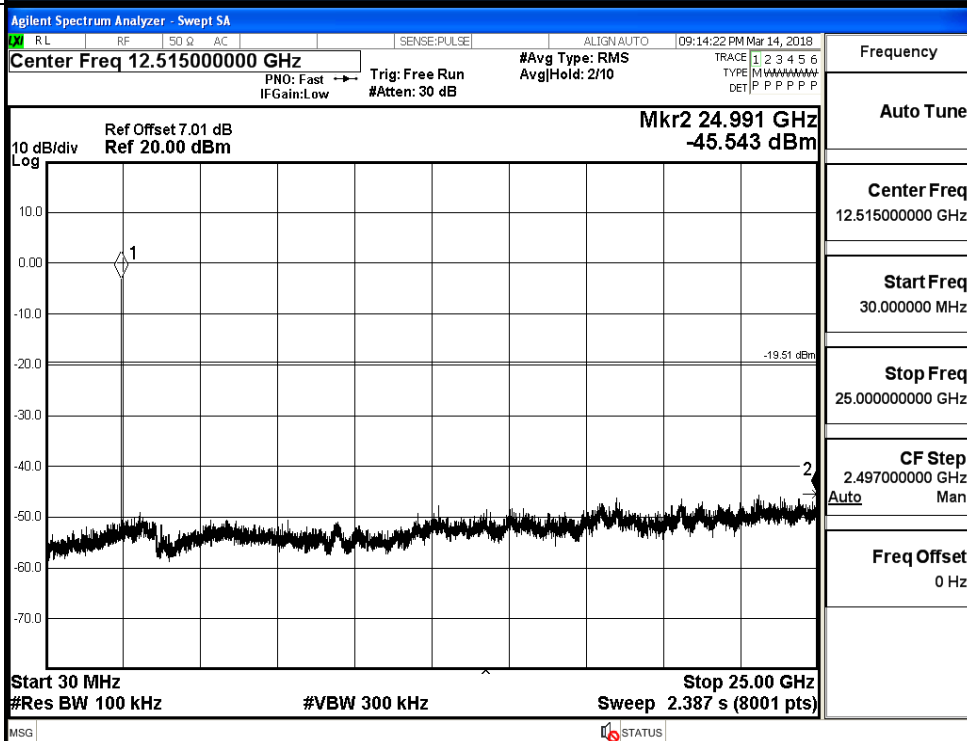


8DPSK_HCH_Graphs

Pref



Puw

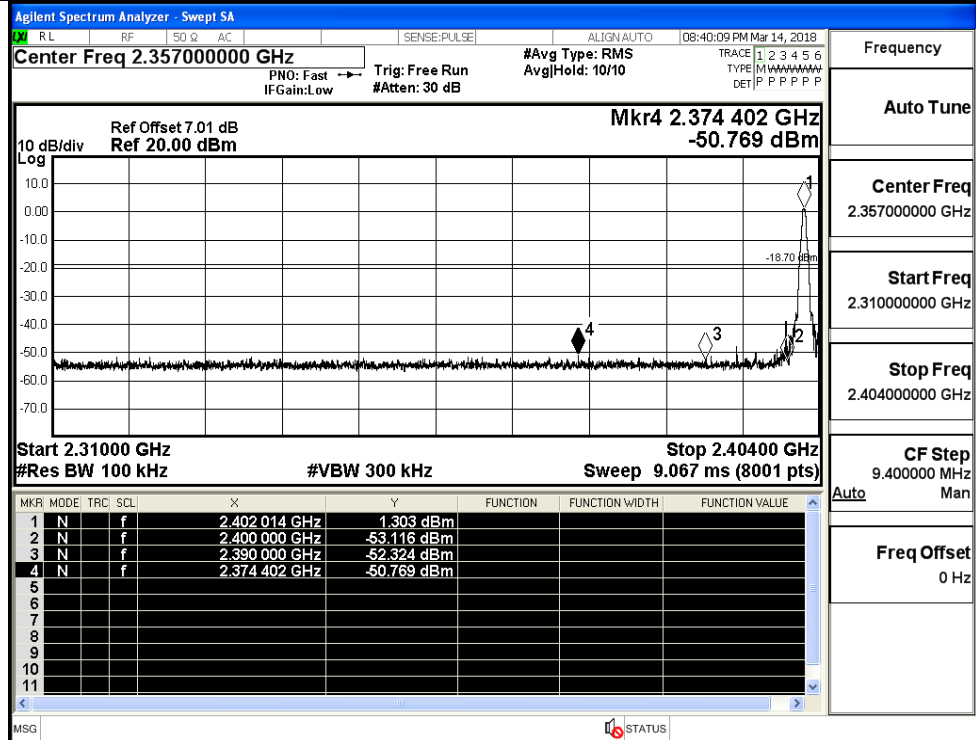


A.7 Band-edge for RF Conducted Emissions

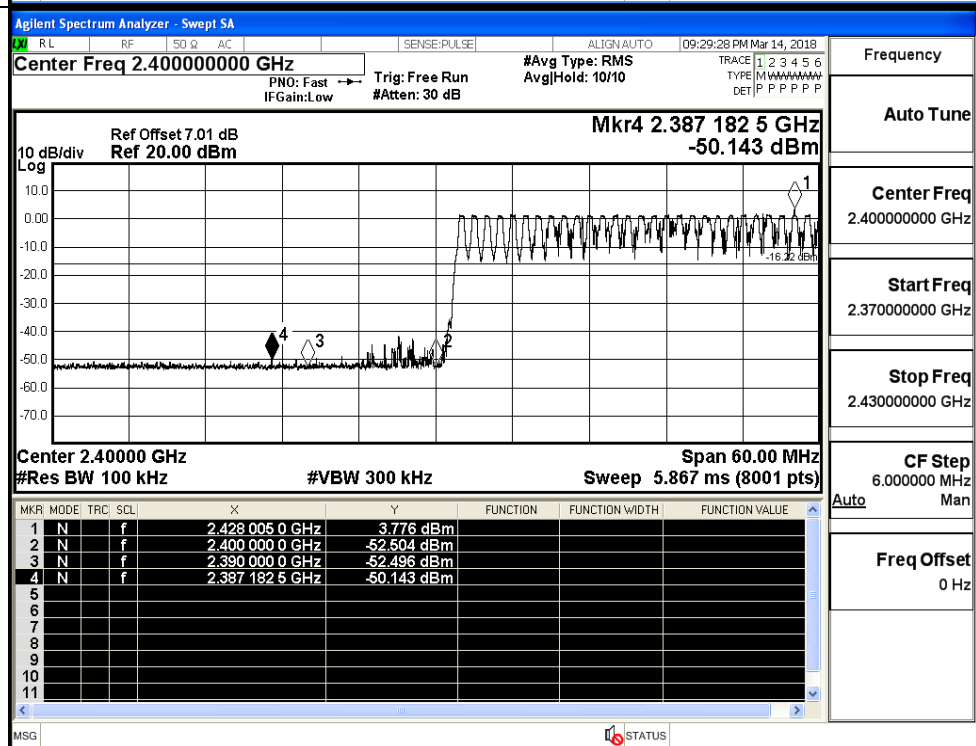
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	1.303	Off	-50.769	-18.7	PASS
			3.776	On	-50.143	-16.22	PASS
	HCH	2480	1.337	Off	-48.923	-18.66	PASS
			4.315	On	-39.216	-15.69	PASS
$\pi/4$ DQPSK	LCH	2402	0.595	Off	-50.604	-19.41	PASS
			3.703	On	-48.329	-16.3	PASS
	HCH	2480	0.550	Off	-50.562	-19.45	PASS
			1.036	On	-40.278	-18.96	PASS
8DPSK	LCH	2402	0.510	Off	-49.741	-19.49	PASS
			2.335	On	-47.916	-17.67	PASS
	HCH	2480	0.574	Off	-50.261	-19.43	PASS
			1.959	On	-49.566	-18.04	PASS

Test Graphs

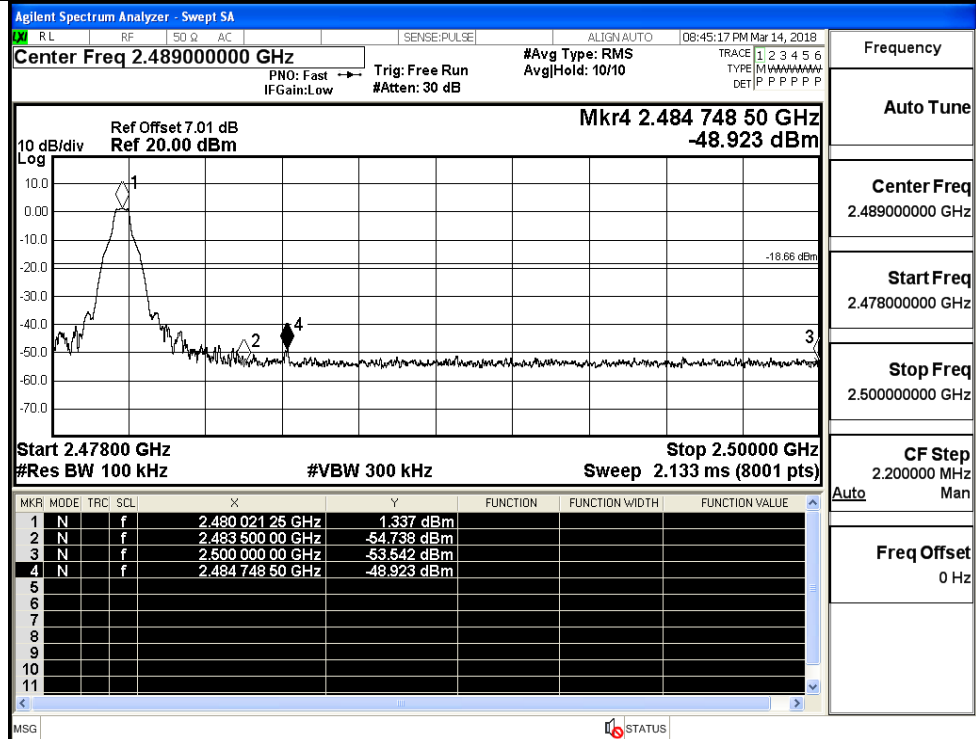
GFSK/LCH/No Hop



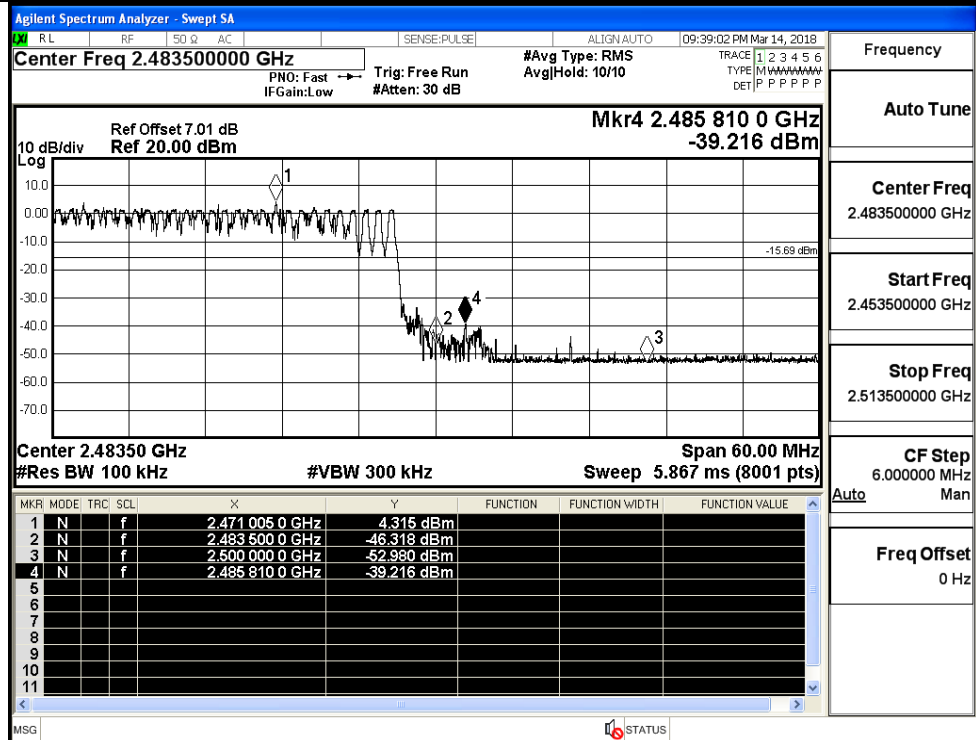
GFSK/LCH/Hop



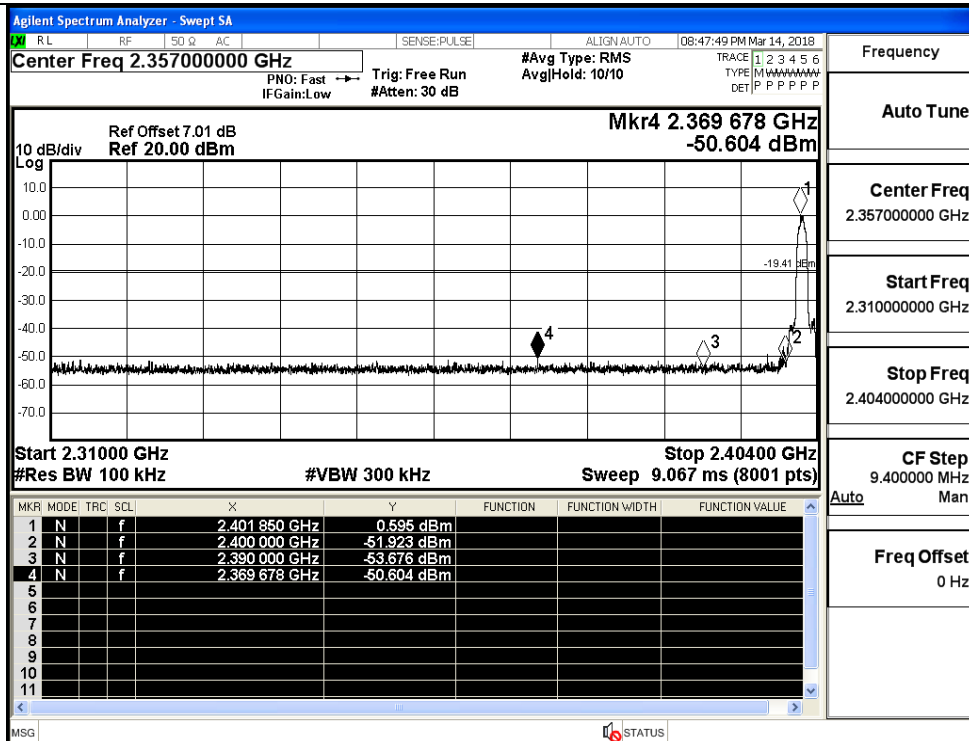
GFSK/HCH/No Hop



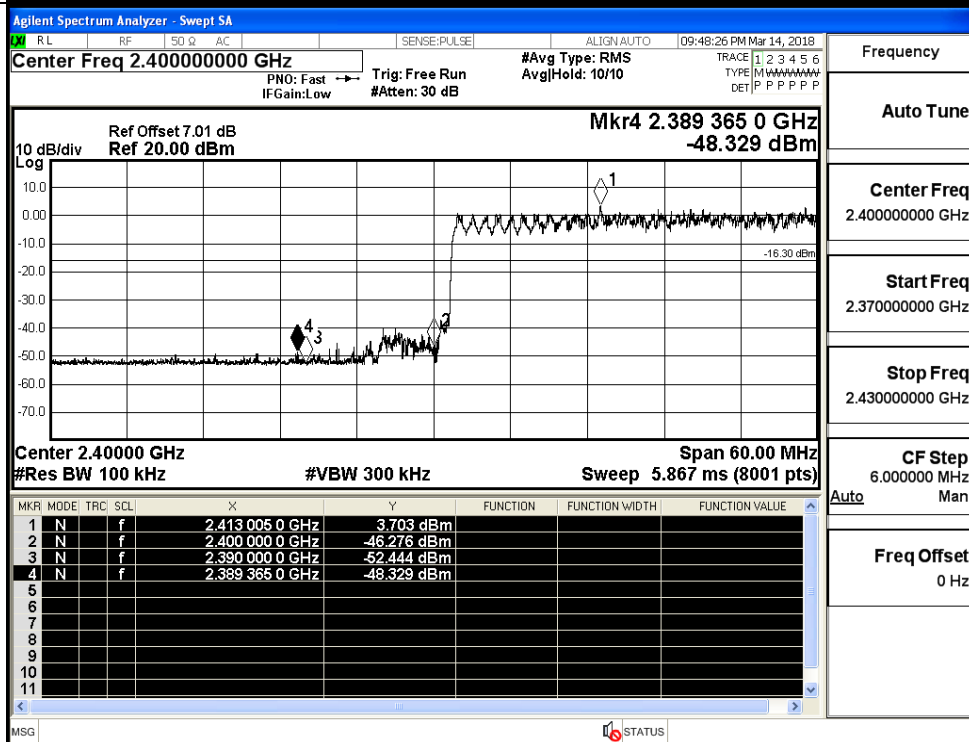
GFSK/HCH/Hop



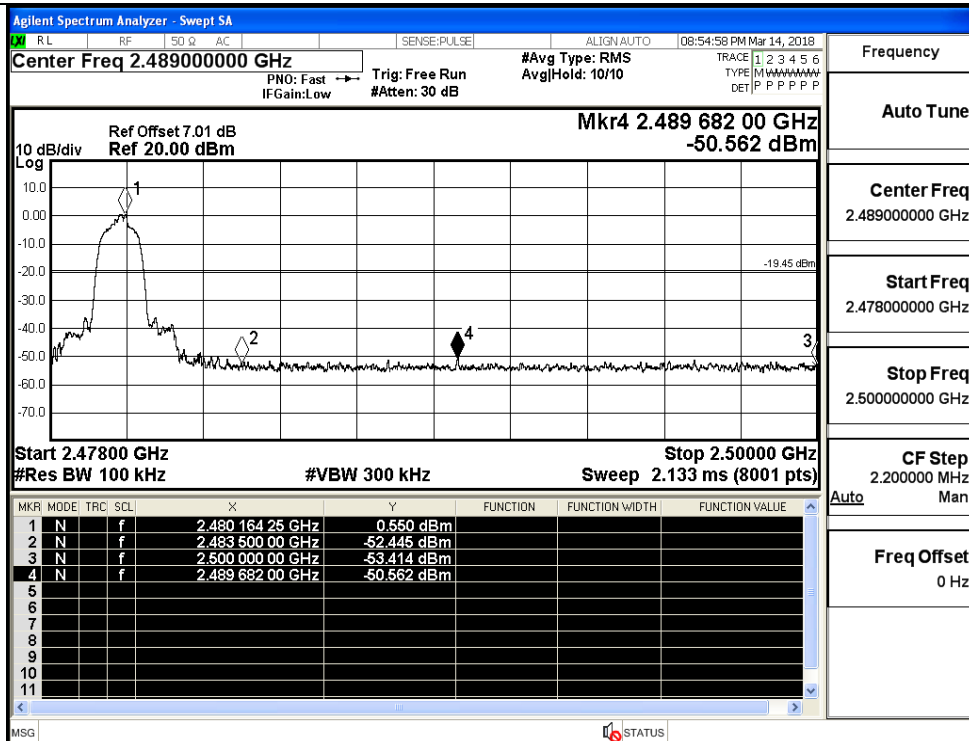
$\pi/4$ DQPSK/LCH/No
Hop



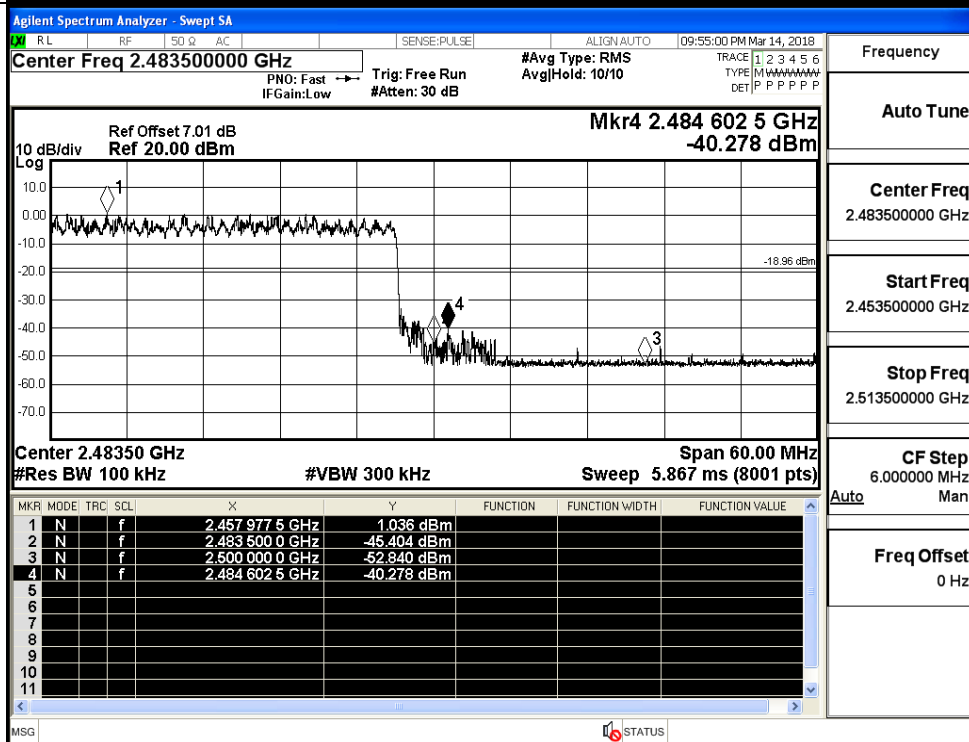
$\pi/4$ DQPSK/LCH/Hop



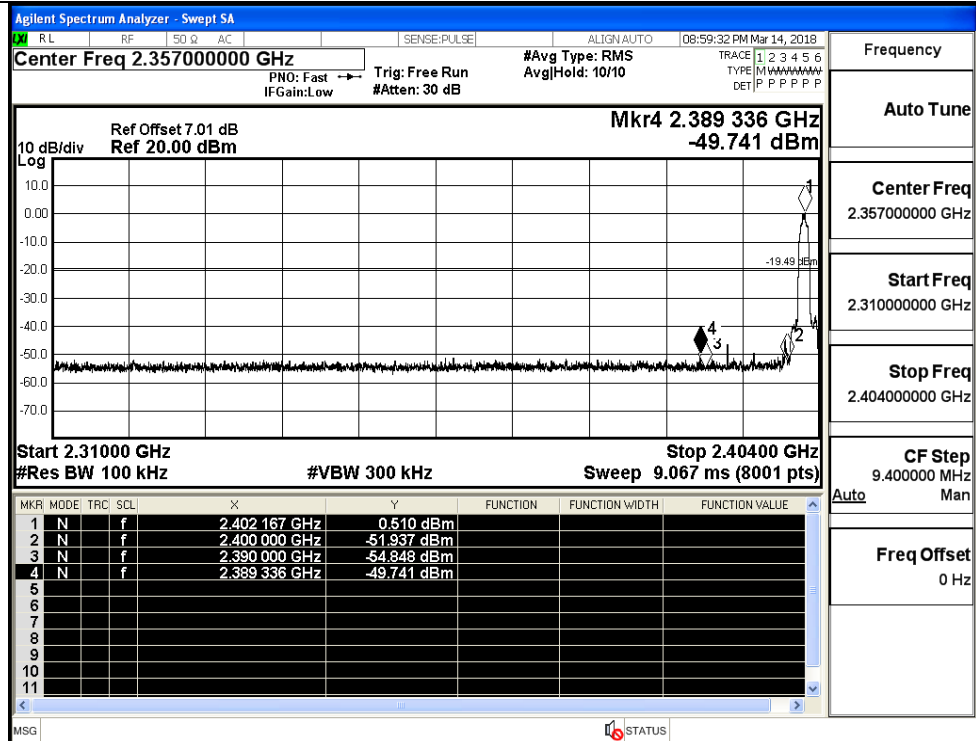
$\pi/4$ DQPSK/HCH/No
Hop



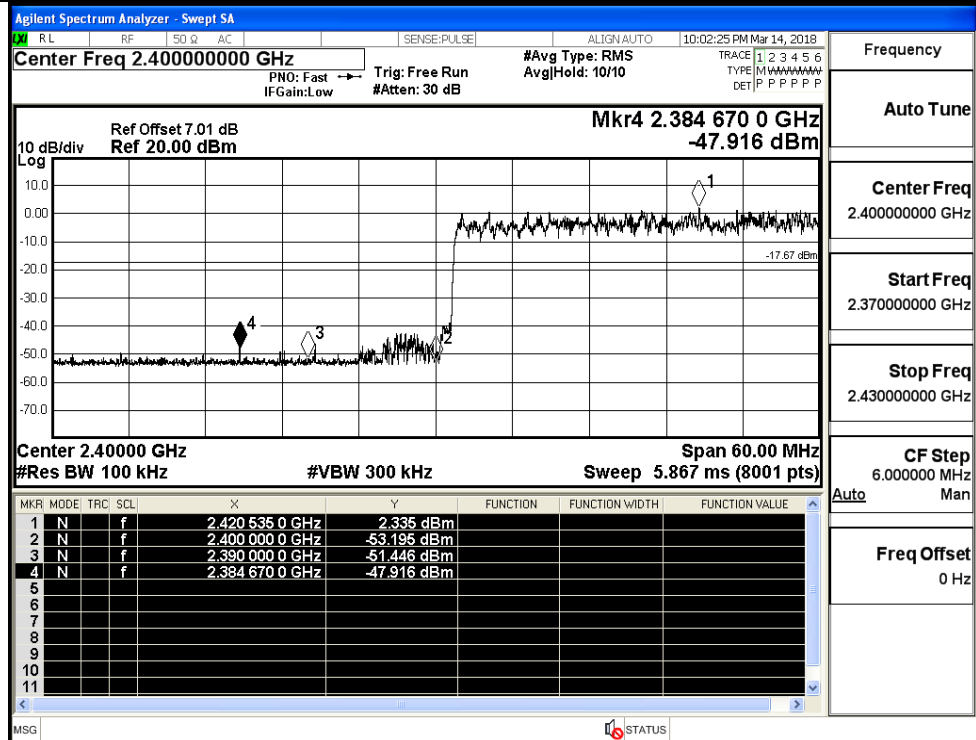
$\pi/4$ DQPSK/HCH/Hop



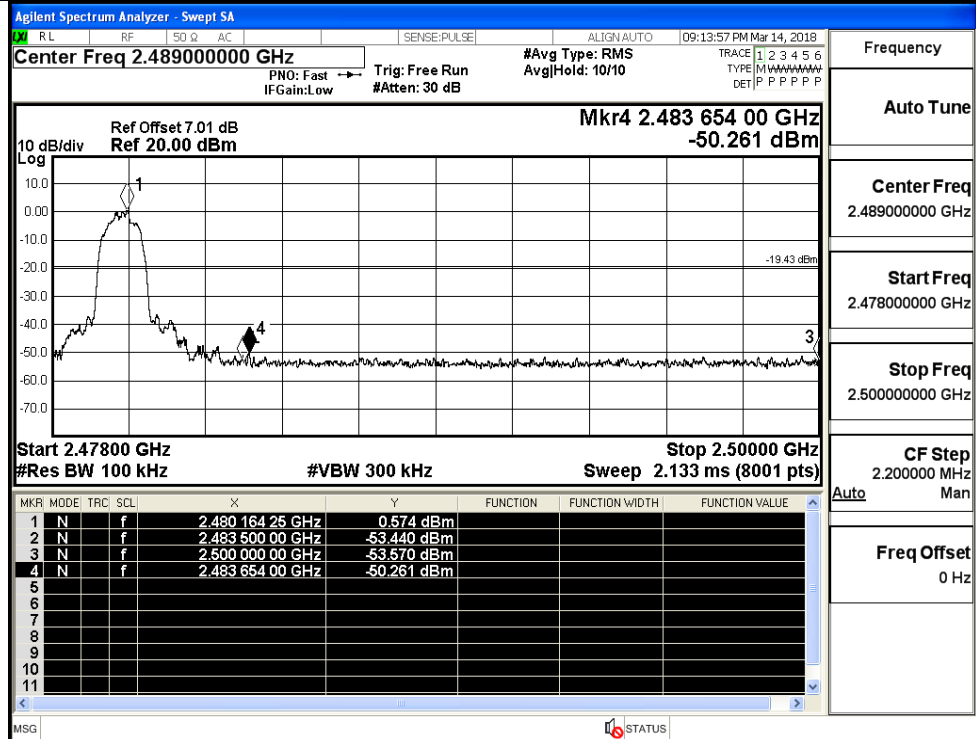
8DPSK/LCH/No Hop



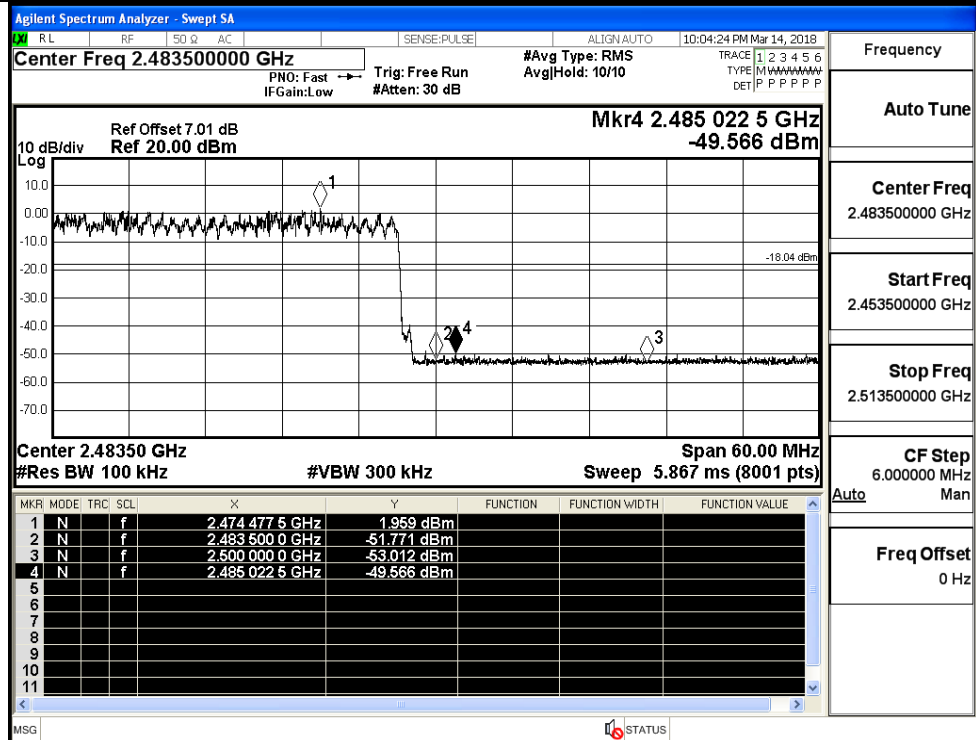
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



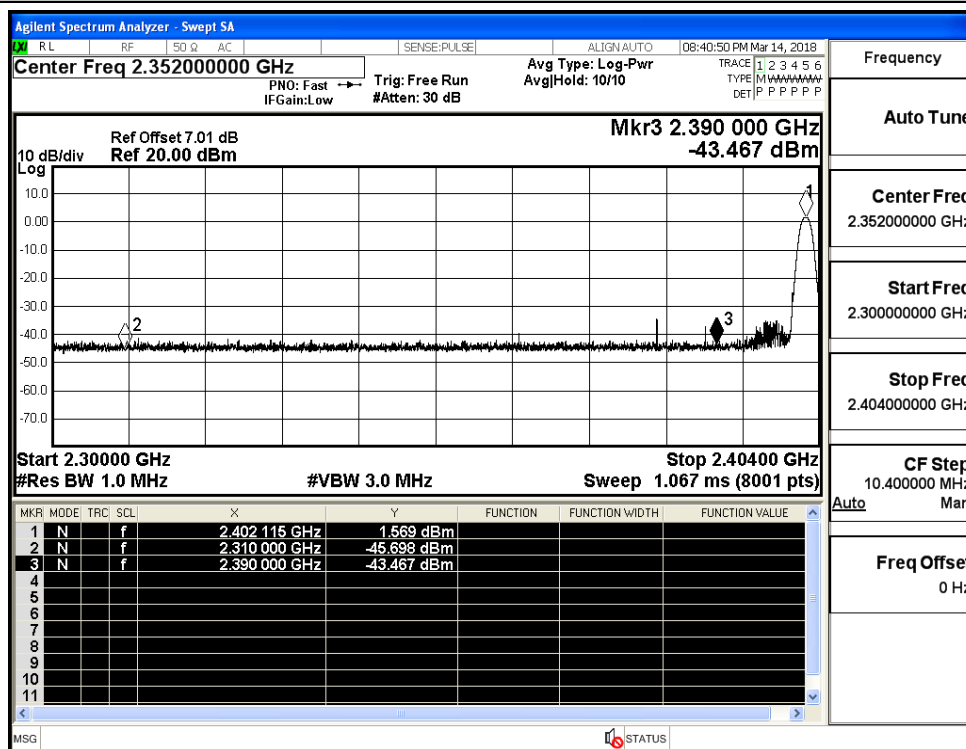
8DPSK/HCH/Hop



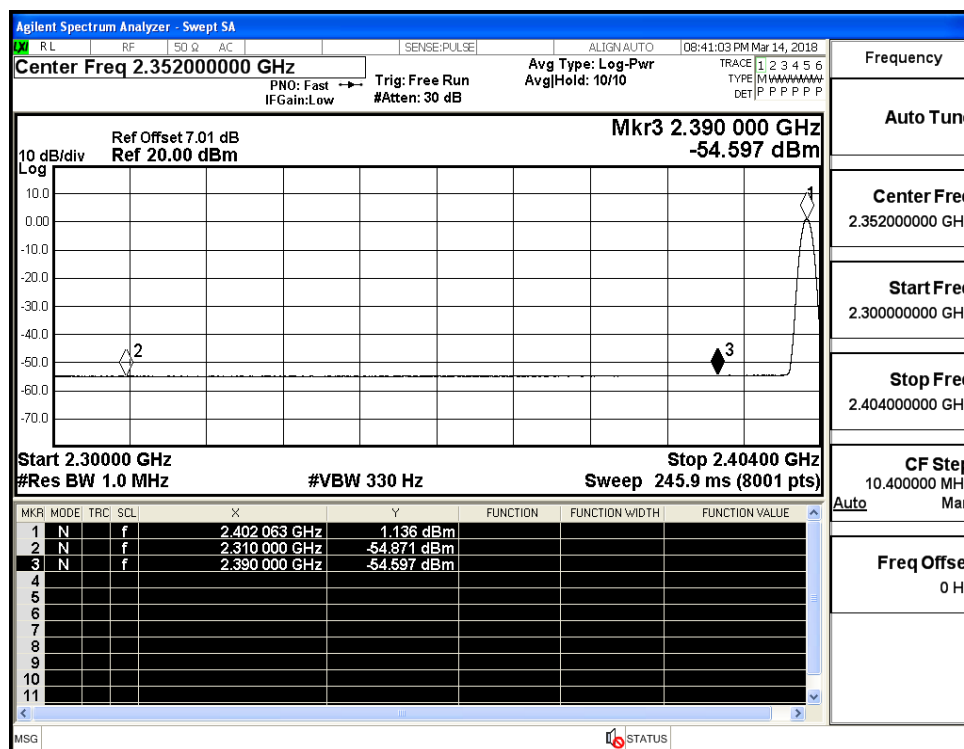
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-45.70	2.0	0	51.56	PEAK	74	PASS
	Off	2310.0	-54.87	2.0	0	42.39	AV	54	PASS
	Off	2390.0	-43.47	2.0	0	53.79	PEAK	74	PASS
	Off	2390.0	-54.60	2.0	0	42.66	AV	54	PASS
	Off	2483.5	-37.48	2.0	0	59.78	PEAK	74	PASS
	Off	2483.5	-54.24	2.0	0	43.02	AV	54	PASS
	Off	2500.0	-44.10	2.0	0	53.16	PEAK	74	PASS
	Off	2500.0	-53.60	2.0	0	43.66	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-44.66	2.0	0	52.60	PEAK	74	PASS
	Off	2310.0	-54.90	2.0	0	42.36	AV	54	PASS
	Off	2390.0	-43.64	2.0	0	53.62	PEAK	74	PASS
	Off	2390.0	-54.57	2.0	0	42.69	AV	54	PASS
	Off	2483.5	-38.00	2.0	0	59.26	PEAK	74	PASS
	Off	2483.5	-54.33	2.0	0	42.93	AV	54	PASS
	Off	2500.0	-42.81	2.0	0	54.45	PEAK	74	PASS
	Off	2500.0	-54.26	2.0	0	43.00	AV	54	PASS
8DPSK	Off	2310.0	-45.54	2.0	0	51.72	PEAK	74	PASS
	Off	2310.0	-54.80	2.0	0	42.46	AV	54	PASS
	Off	2390.0	-44.59	2.0	0	52.67	PEAK	74	PASS
	Off	2390.0	-54.56	2.0	0	42.70	AV	54	PASS
	Off	2483.5	-38.84	2.0	0	58.42	PEAK	74	PASS
	Off	2483.5	-54.24	2.0	0	43.02	AV	54	PASS
	Off	2500.0	-43.89	2.0	0	53.37	PEAK	74	PASS
	Off	2500.0	-54.21	2.0	0	43.05	AV	54	PASS

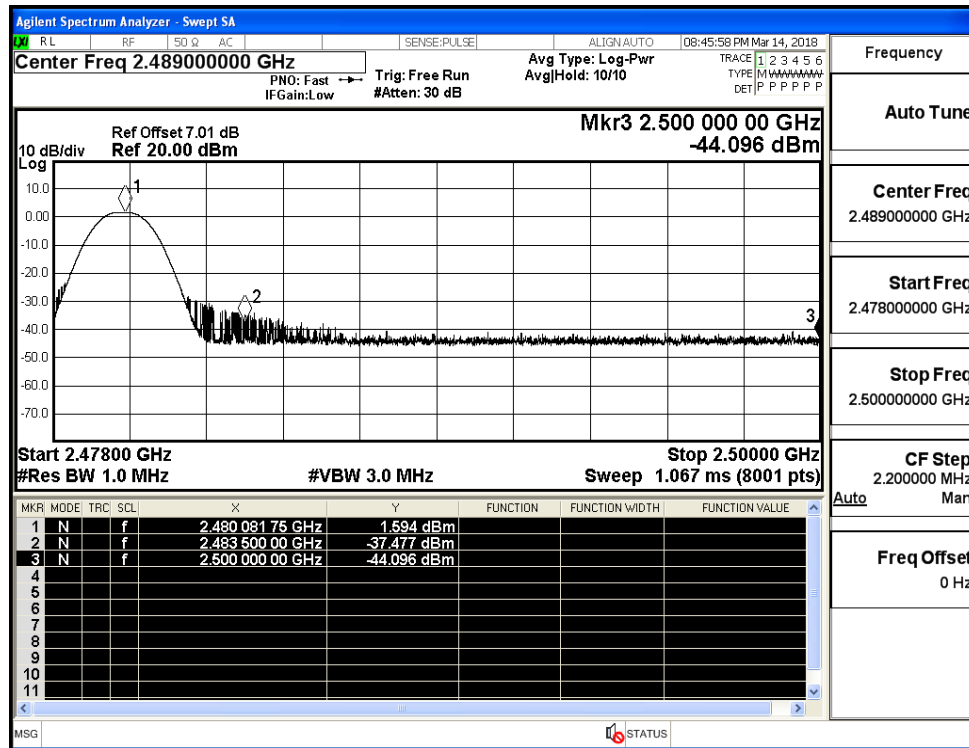
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



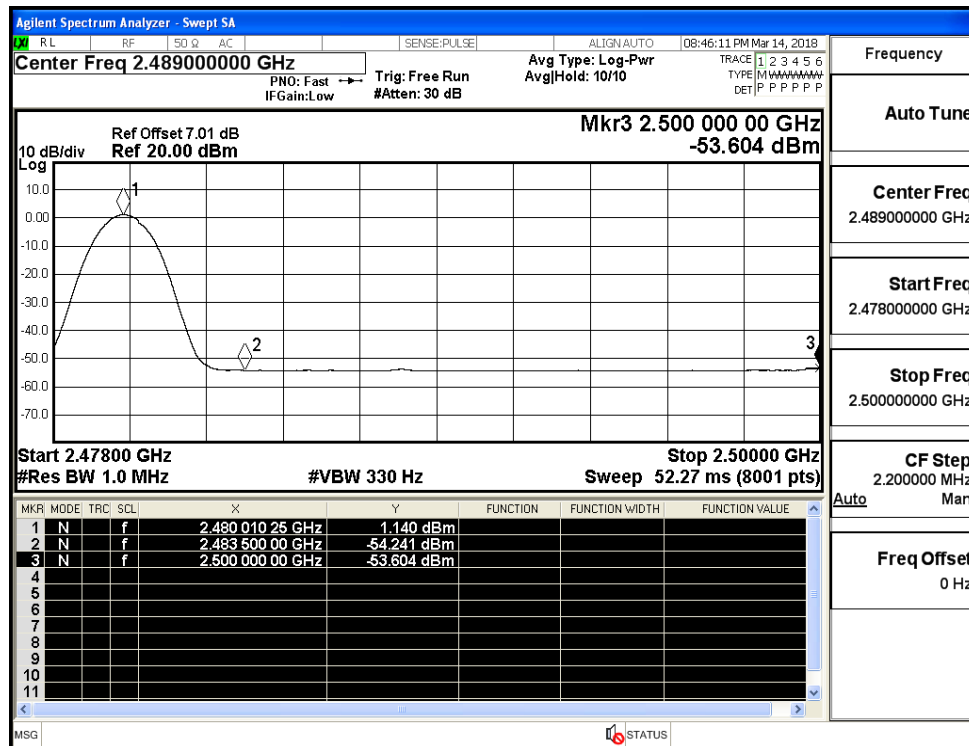
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)



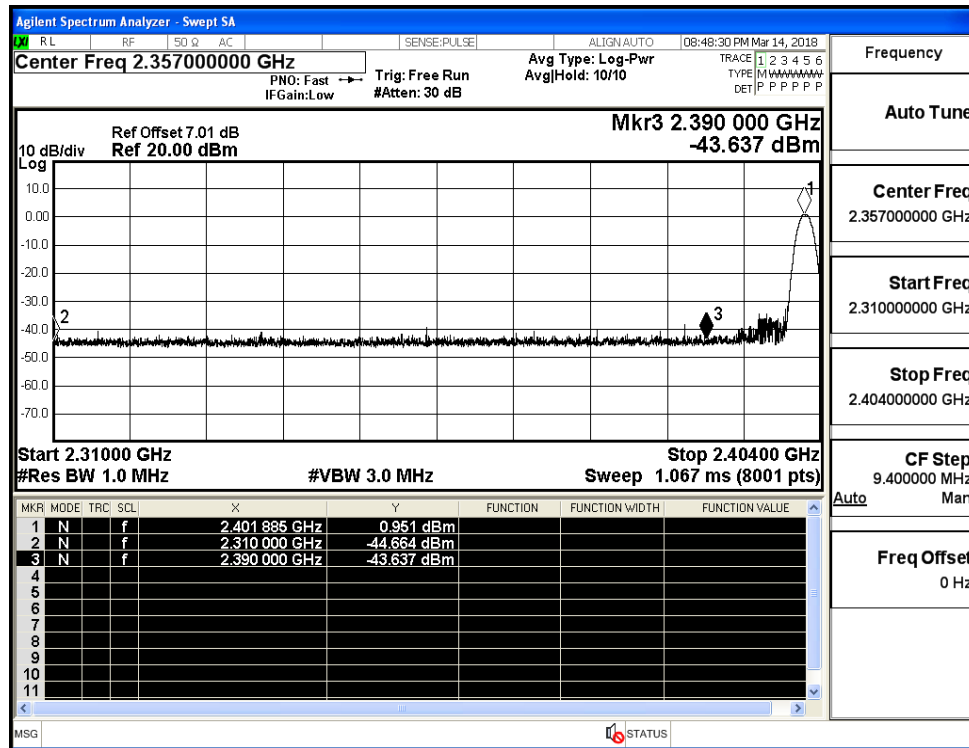
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



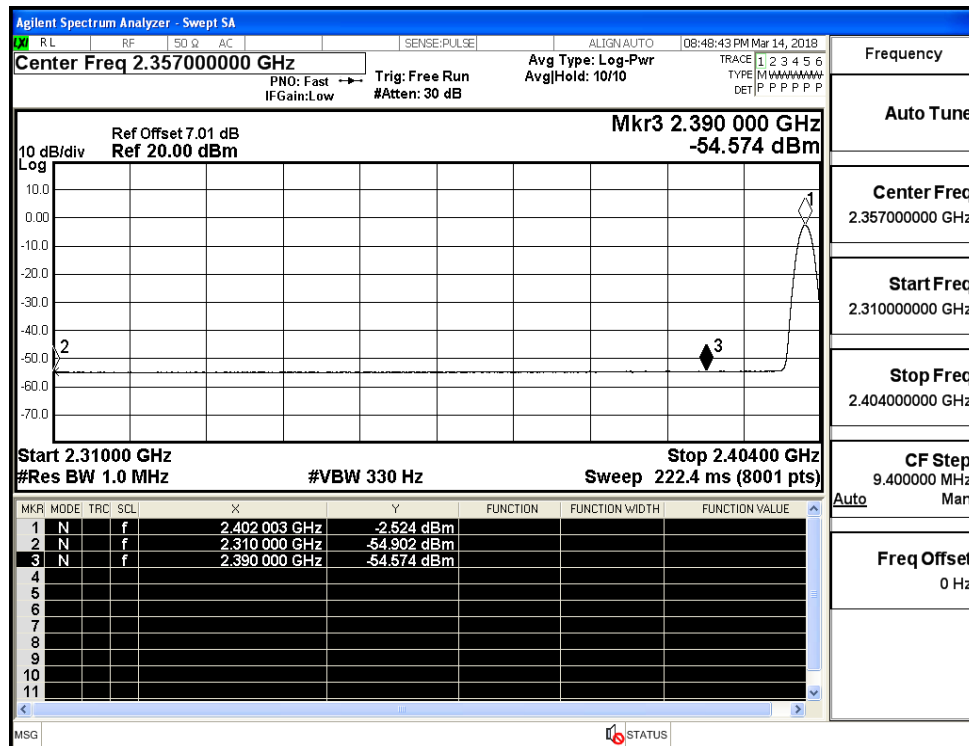
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



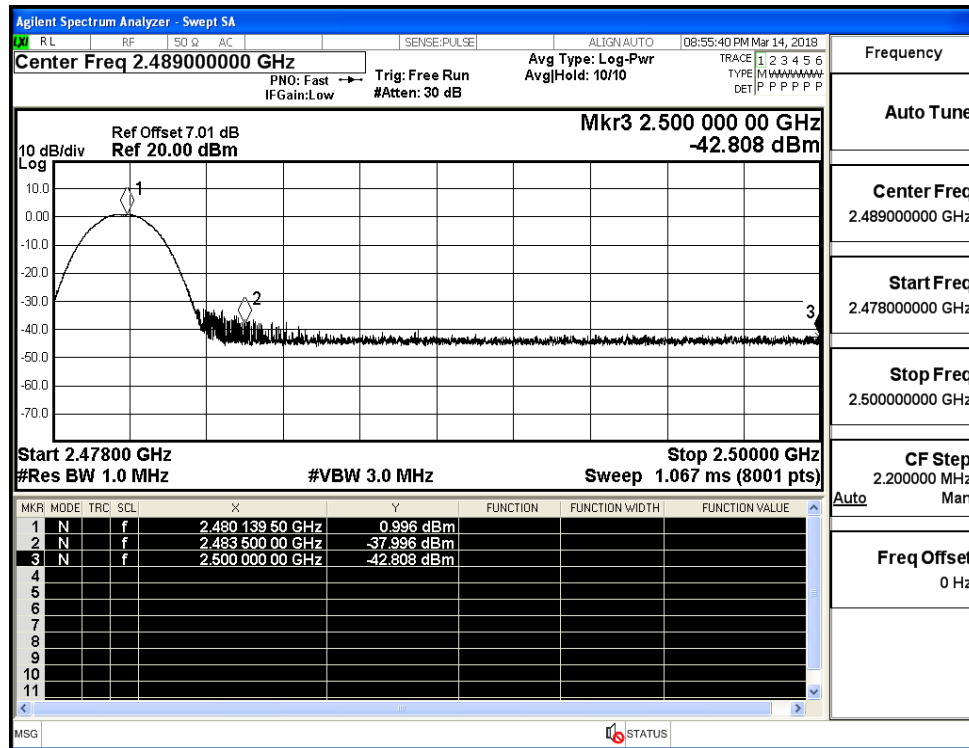
Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)



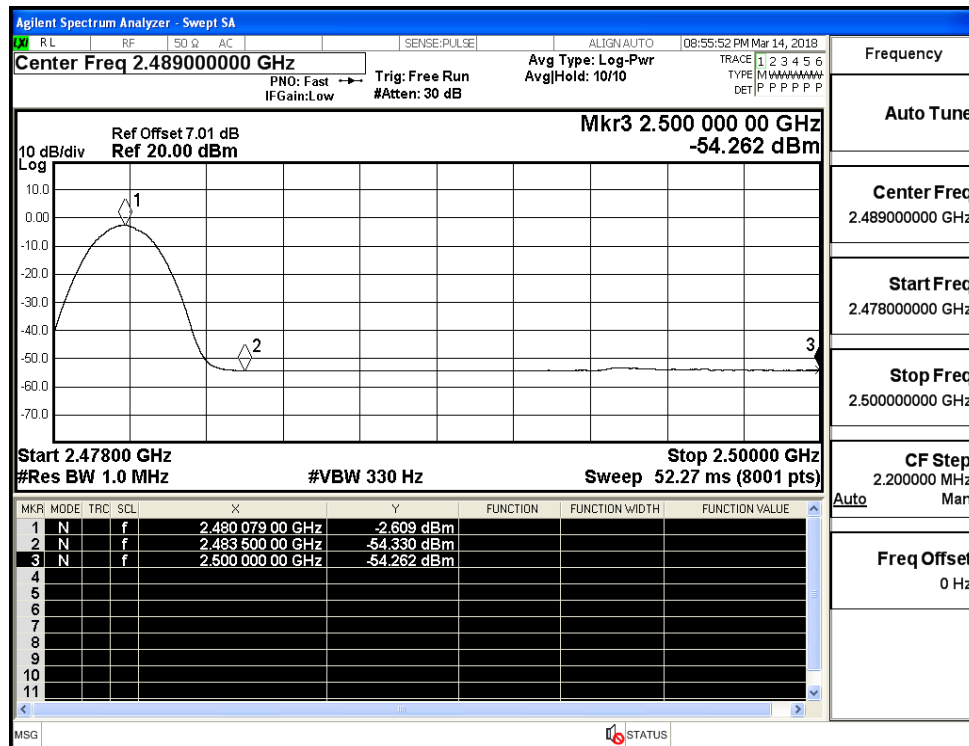
Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)



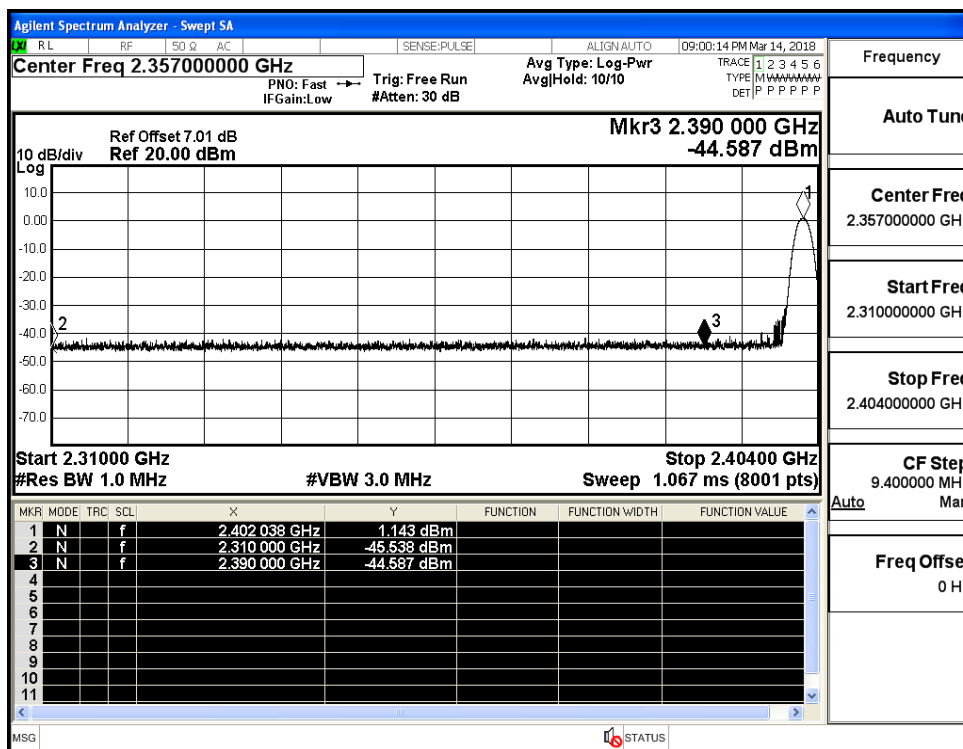
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



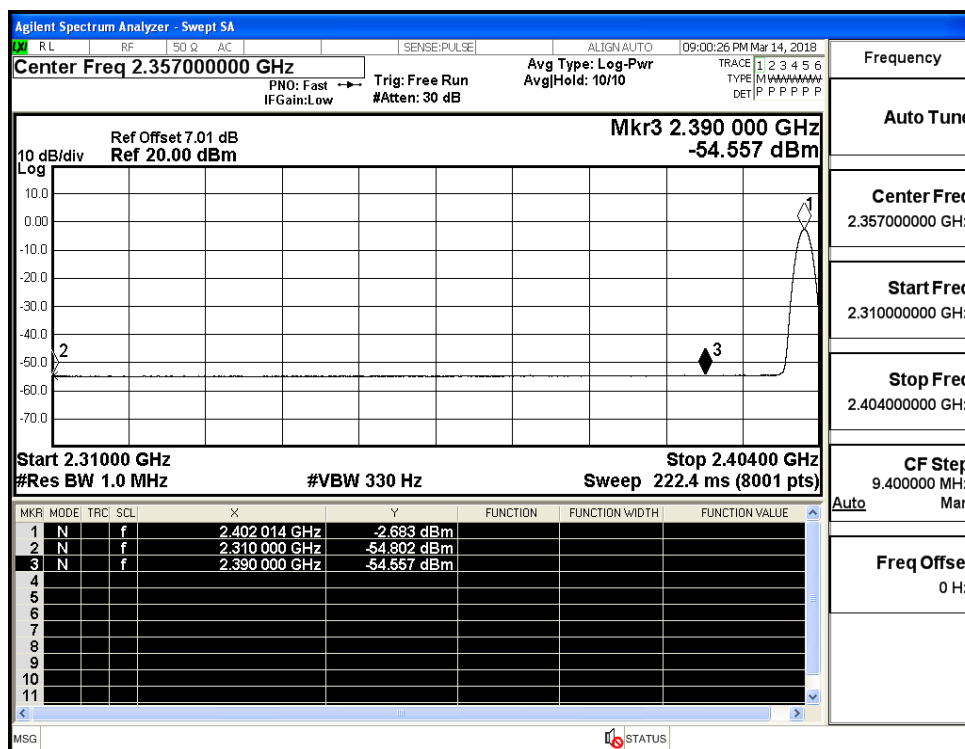
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



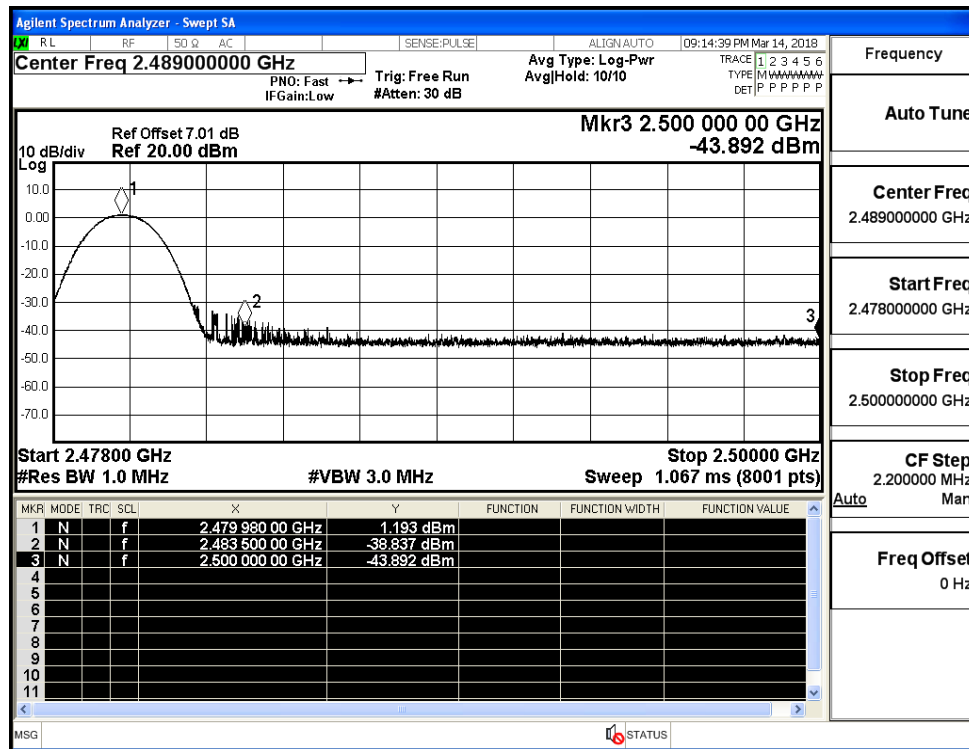
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

