

Appendix A

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Snoky N8

Trade Mark: Snoky

Test Model: N8

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

A.1 Maximum Conducted Peak Output Power

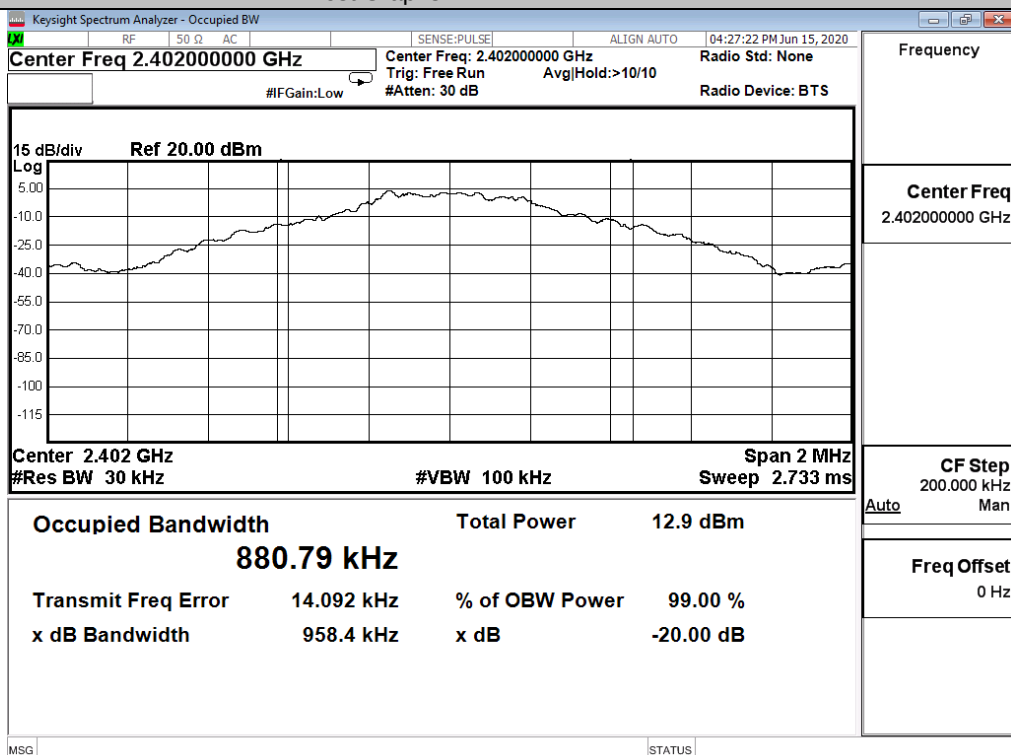
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	5.763	21	PASS
	MCH	5.806	21	PASS
	HCH	5.612	21	PASS
$\pi/4$ DQPSK	LCH	5.720	21	PASS
	MCH	5.820	21	PASS
	HCH	5.633	21	PASS
8DPSK	LCH	6.323	21	PASS
	MCH	6.423	21	PASS
	HCH	6.235	21	PASS

A.2 20dB Bandwidth

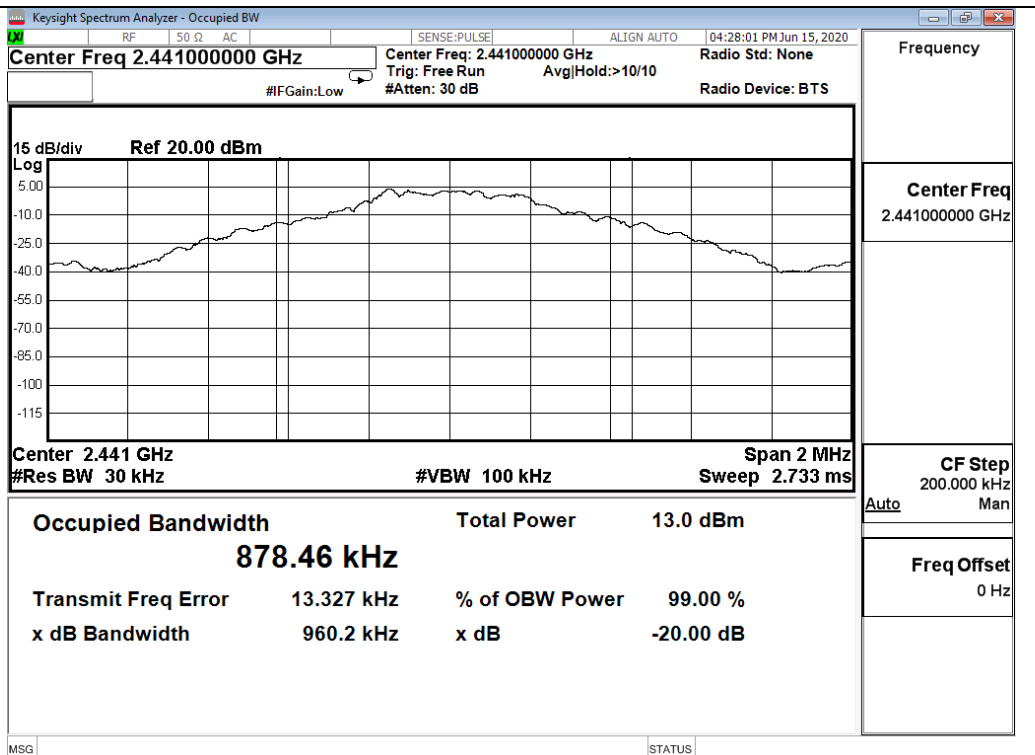
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.9584	Not Specified	PASS
	MCH	0.9602	Not Specified	PASS
	HCH	0.9602	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.284	Not Specified	PASS
	MCH	1.284	Not Specified	PASS
	HCH	1.289	Not Specified	PASS
8DPSK	LCH	1.295	Not Specified	PASS
	MCH	1.302	Not Specified	PASS
	HCH	1.294	Not Specified	PASS

Test Graphs

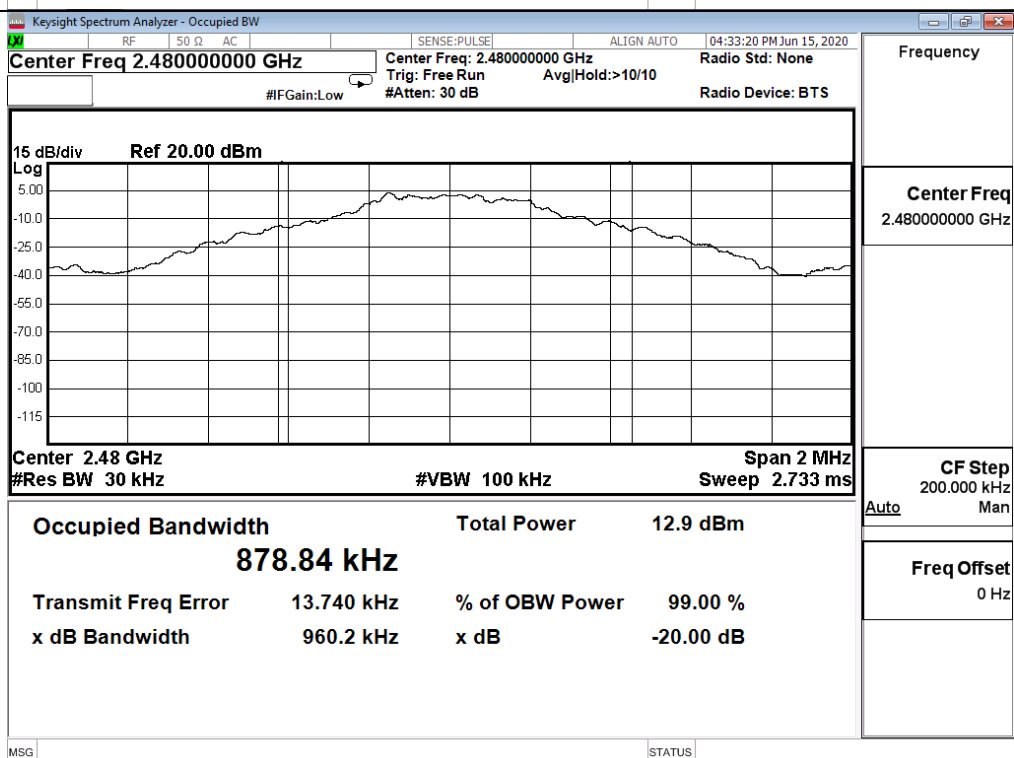
GFSK/LCH

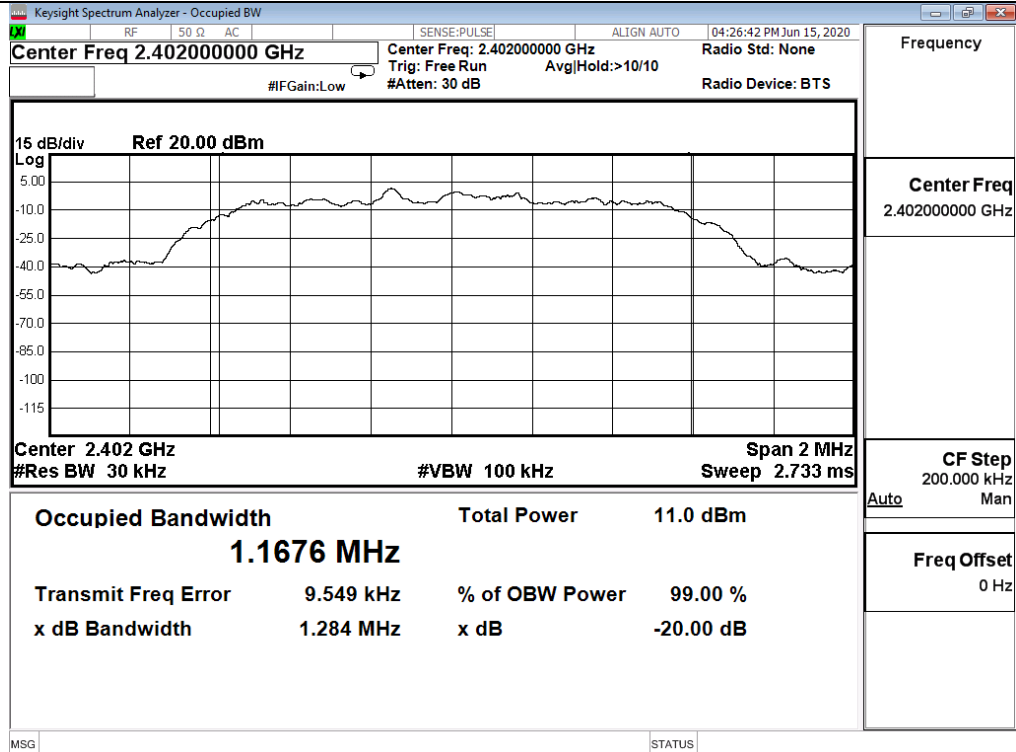
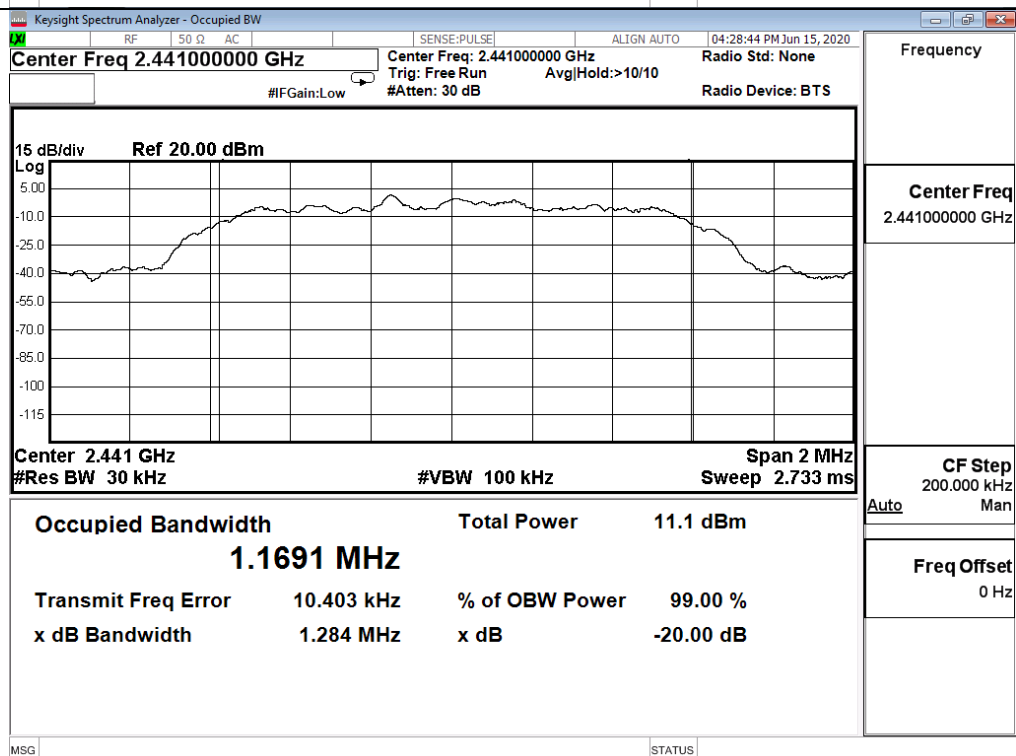


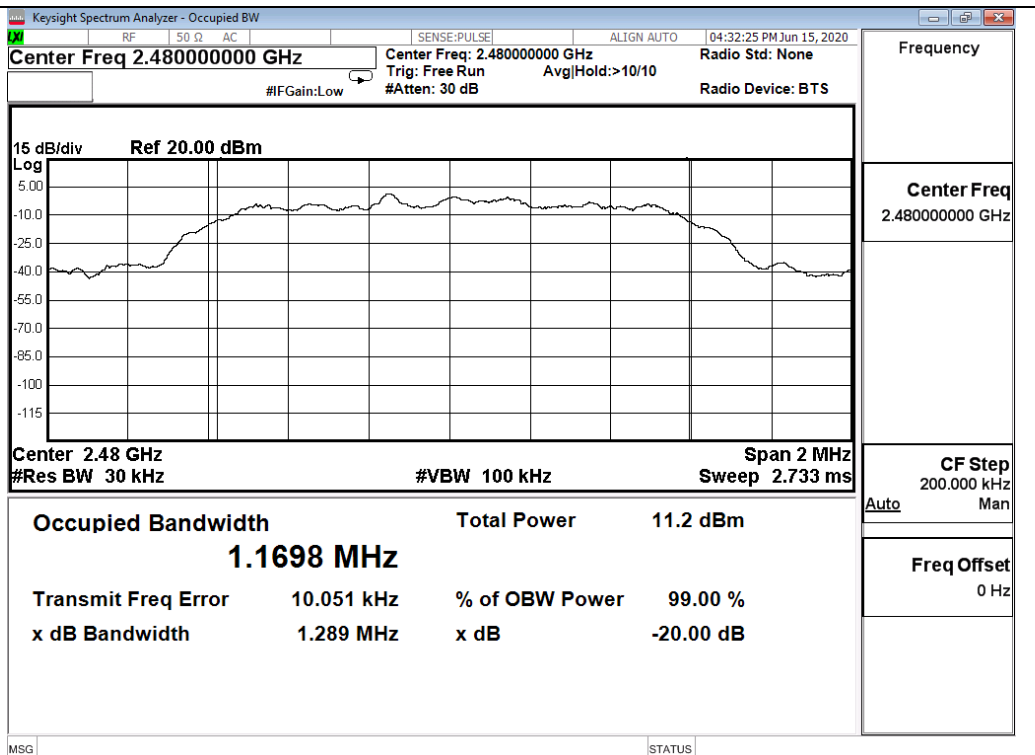
GFSK/MCH



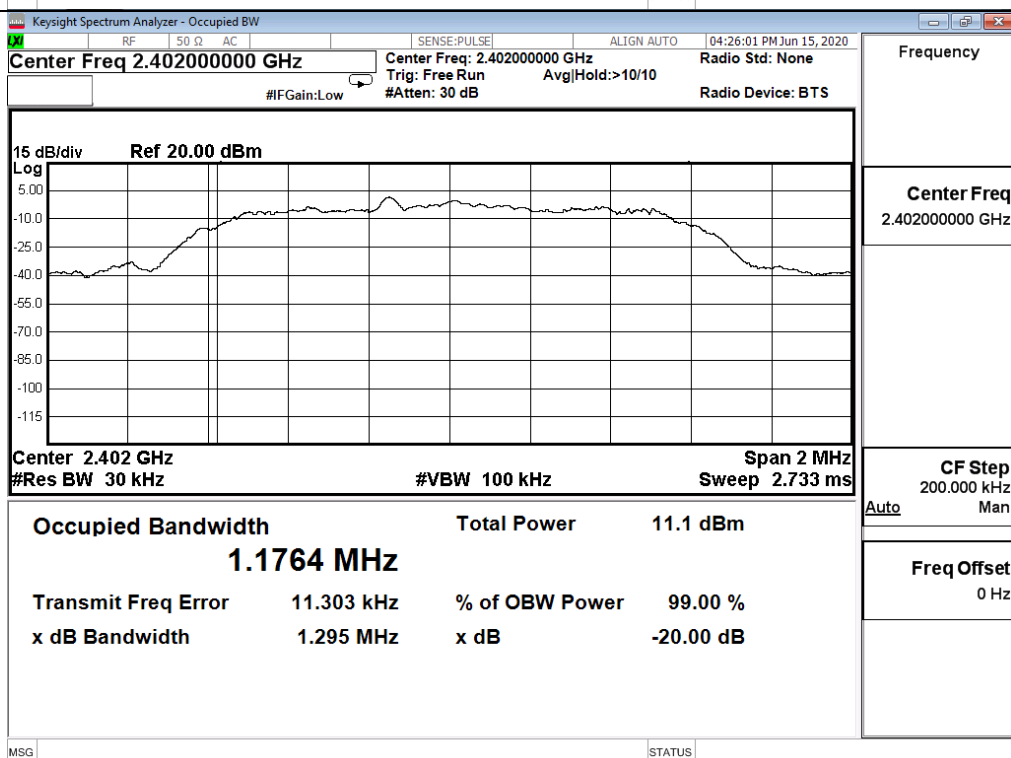
GFSK/HCH



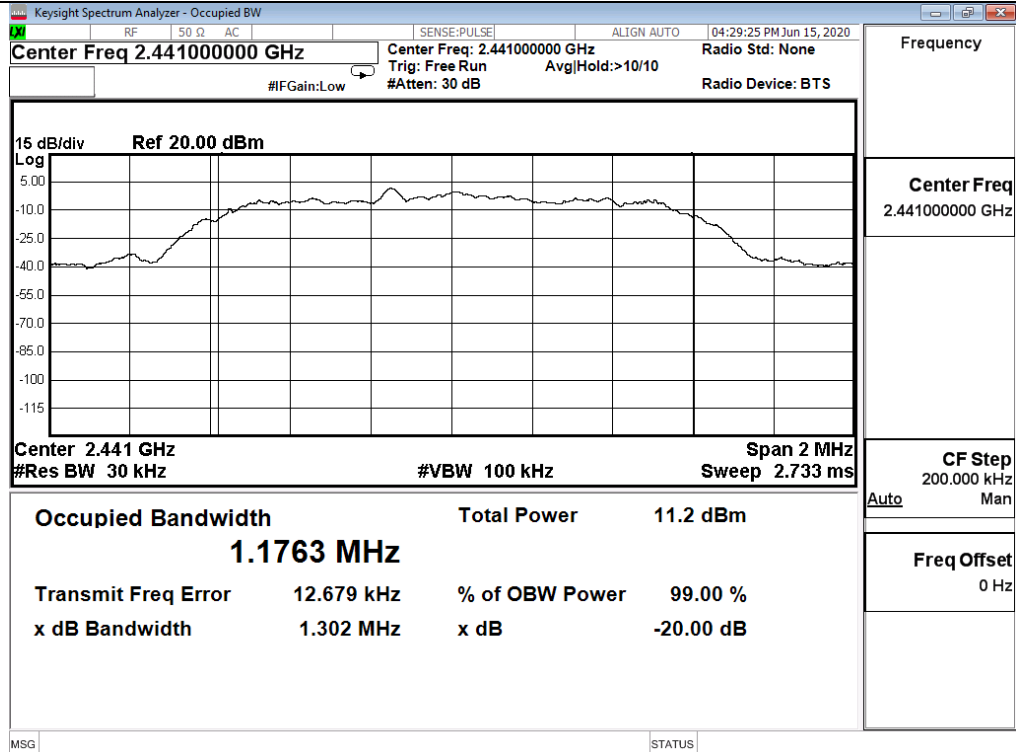
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

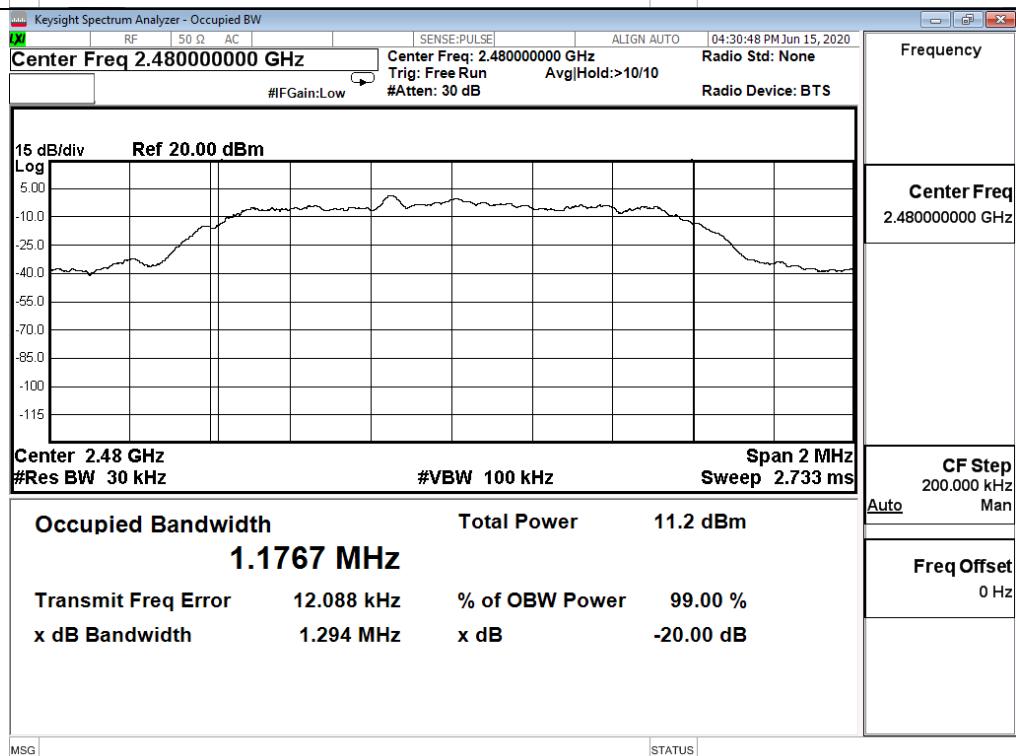
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

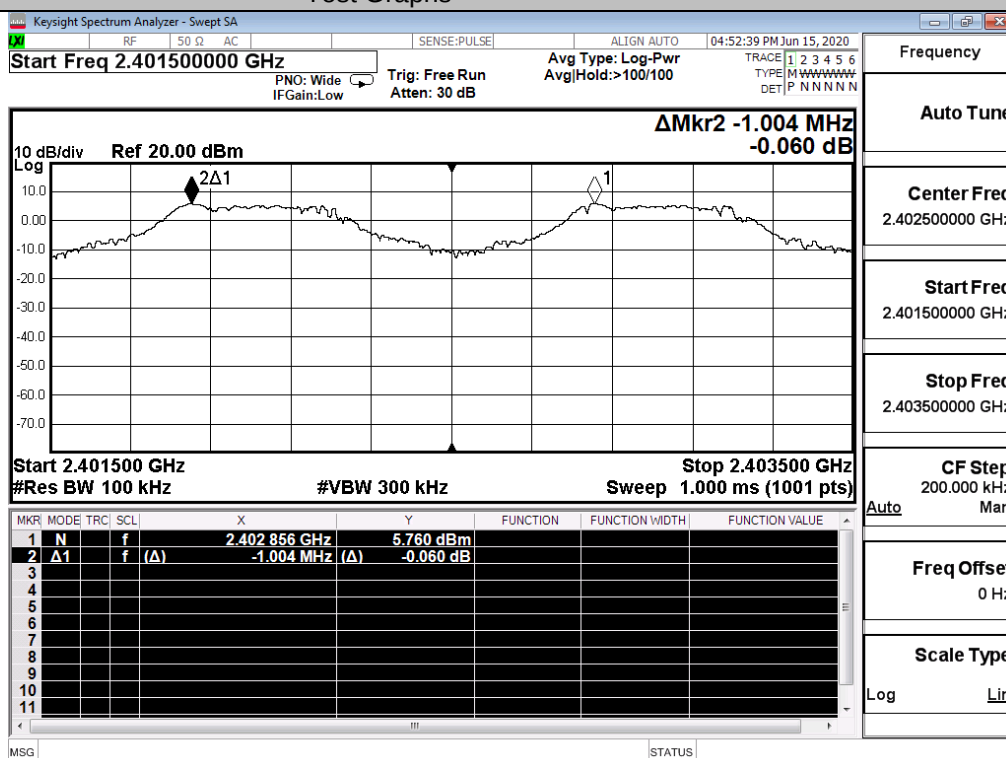


A.3 Carrier Frequency Separation

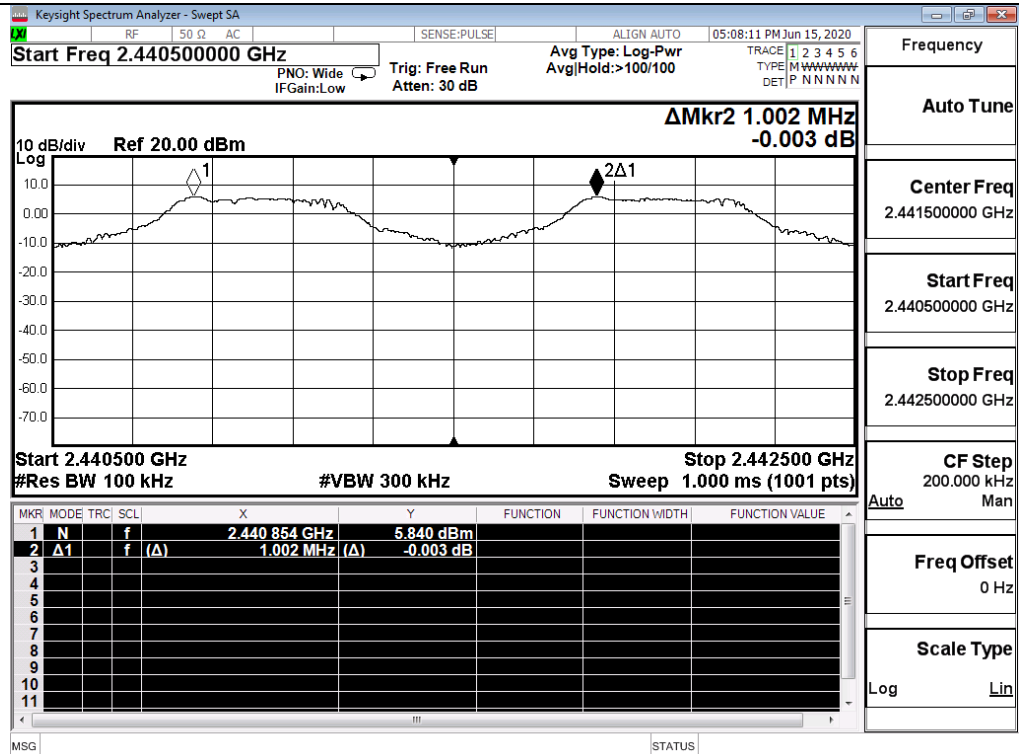
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.004	0.64	PASS
	MCH	1.002	0.64	PASS
	HCH	0.992	0.64	PASS
$\pi/4$ DQPSK	LCH	1.004	0.86	PASS
	MCH	1.002	0.86	PASS
	HCH	1.000	0.86	PASS
8DPSK	LCH	1.008	0.86	PASS
	MCH	0.996	0.87	PASS
	HCH	0.998	0.86	PASS

Test Graphs

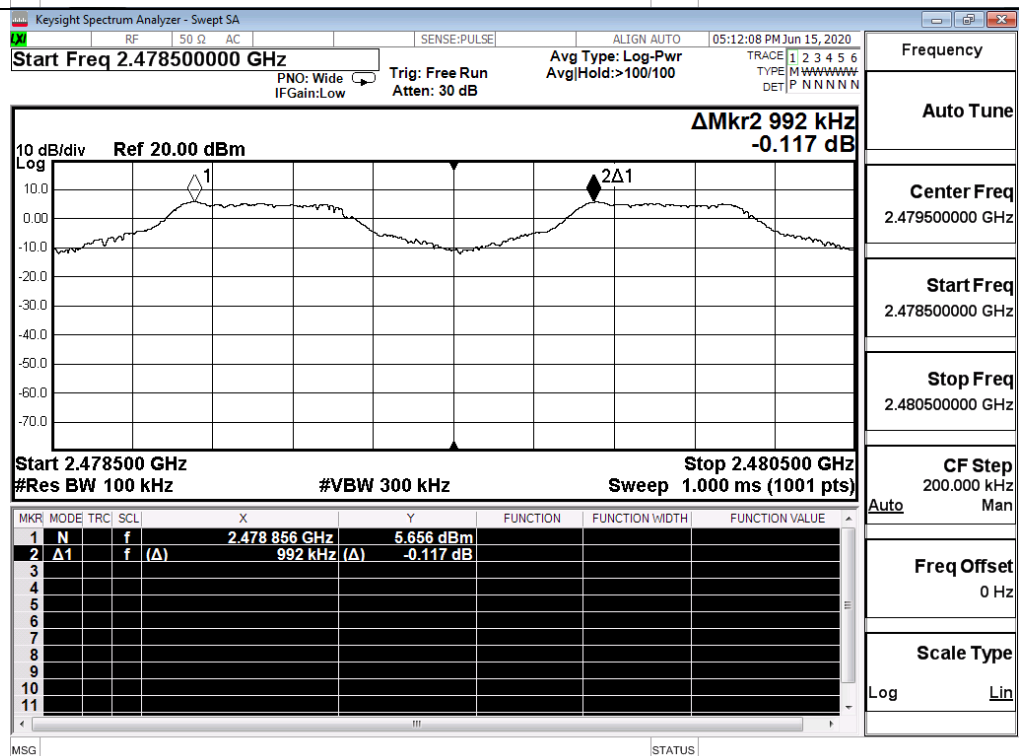
GFSK/LCH

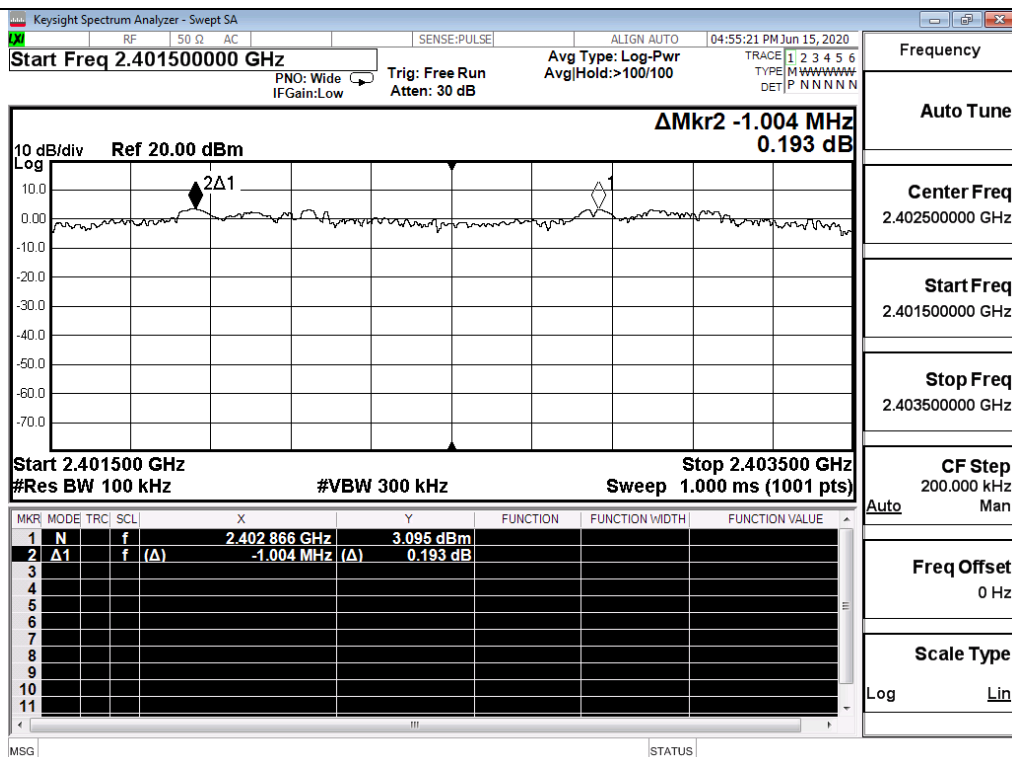
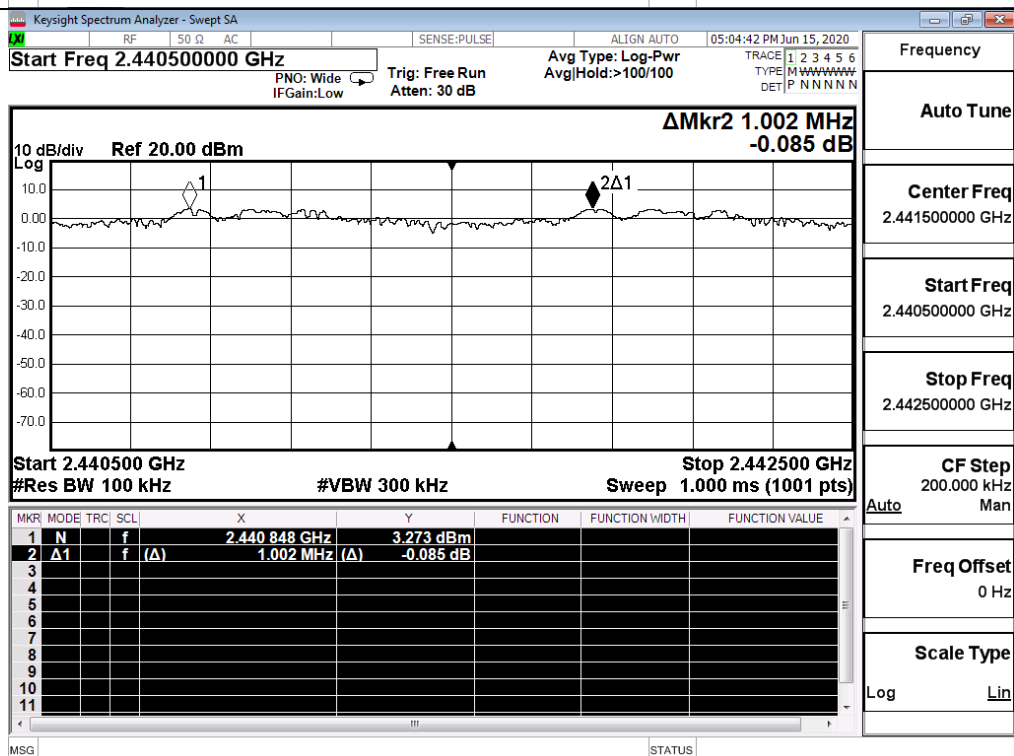


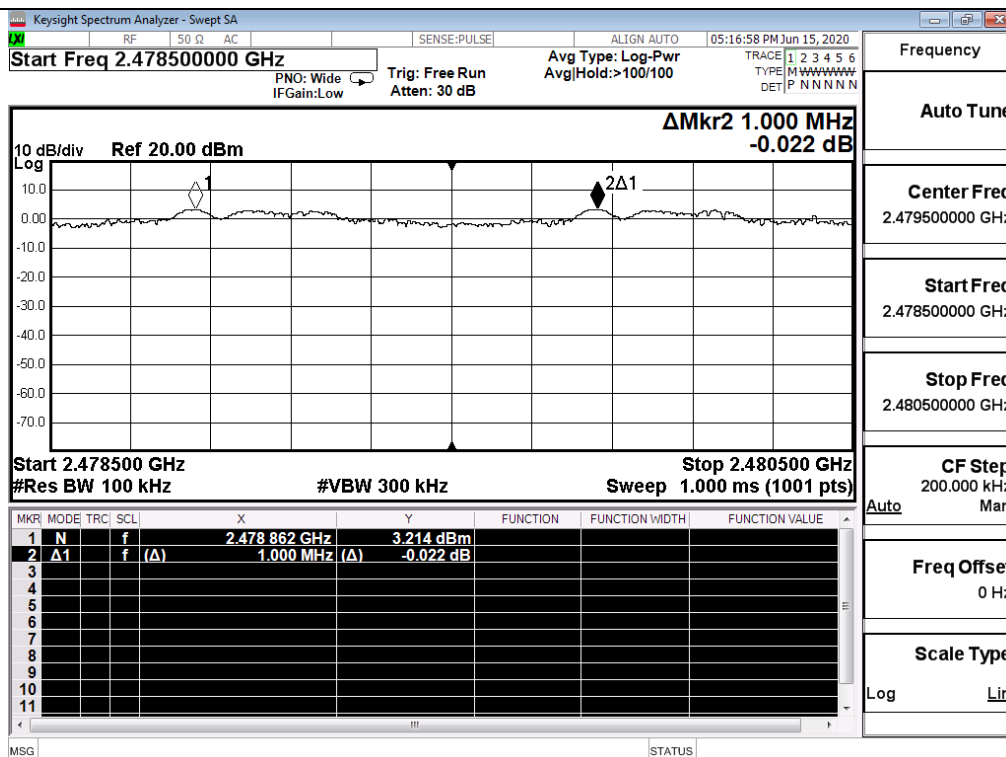
GFSK/MCH



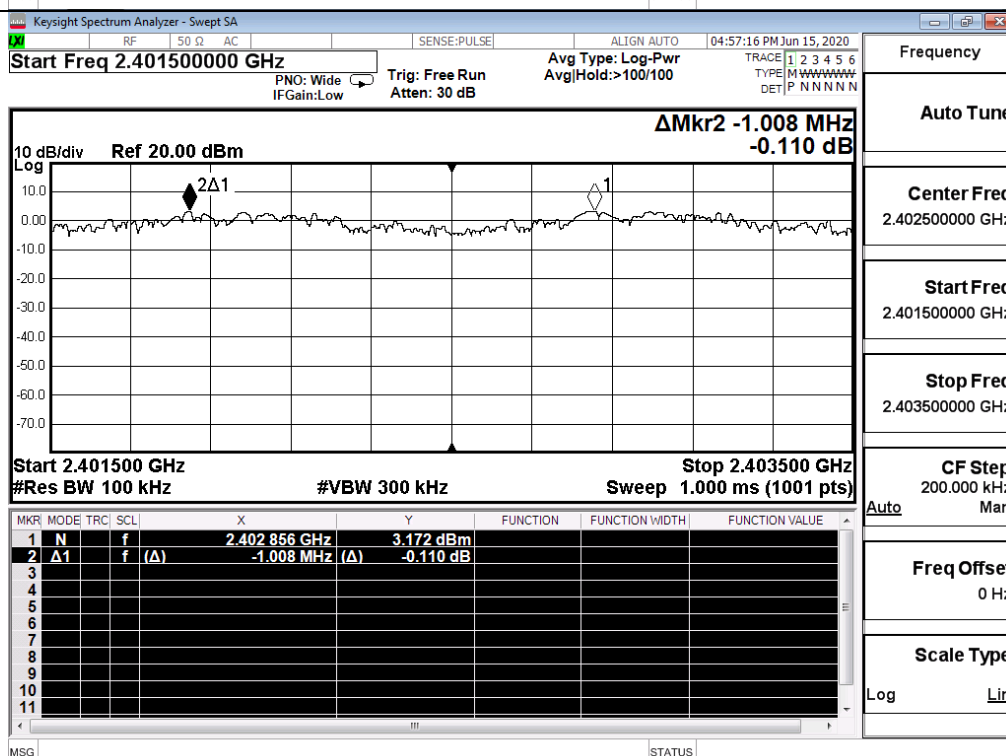
GFSK/HCH



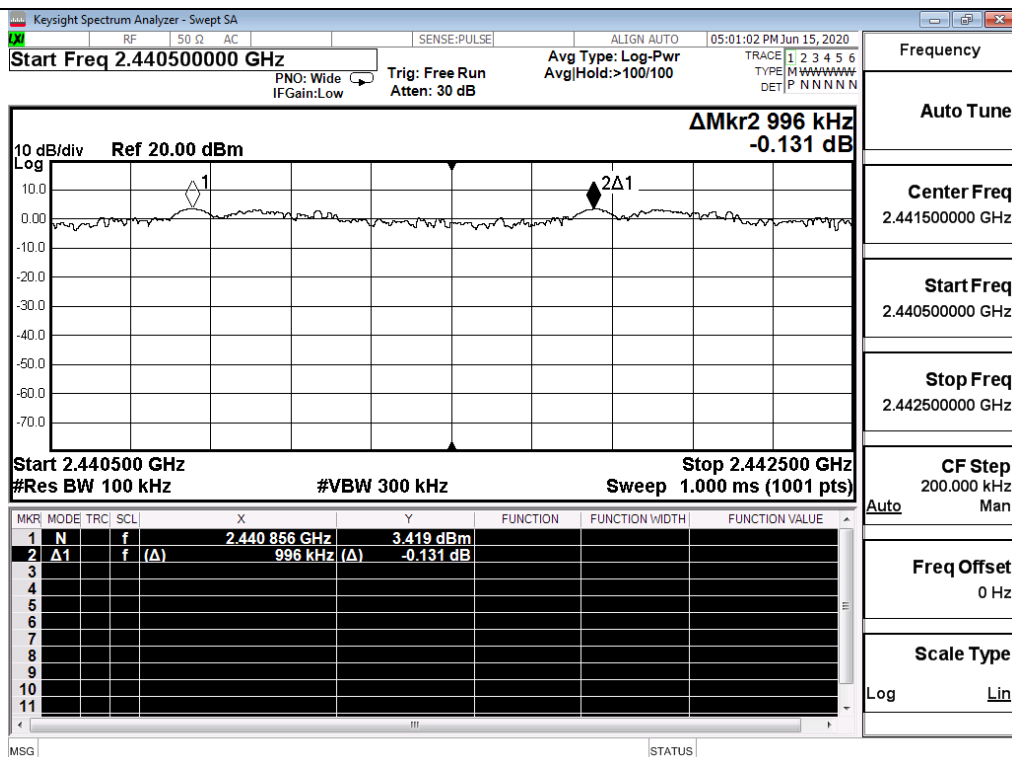
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

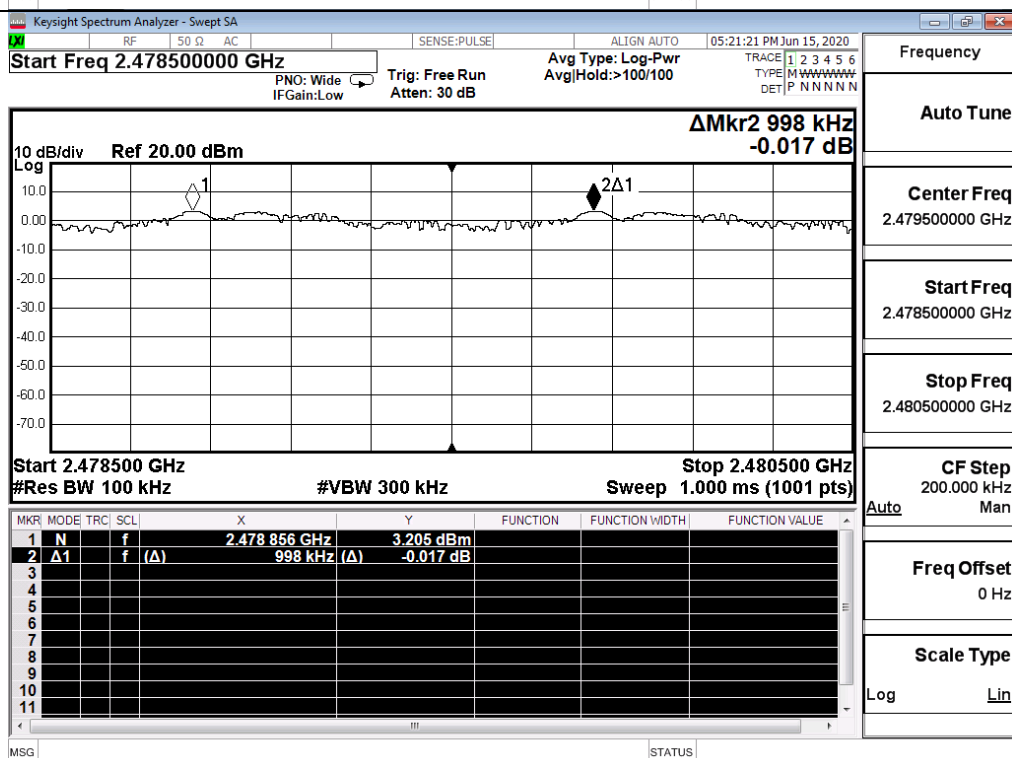
8DPSK/LCH



8DPSK/MCH

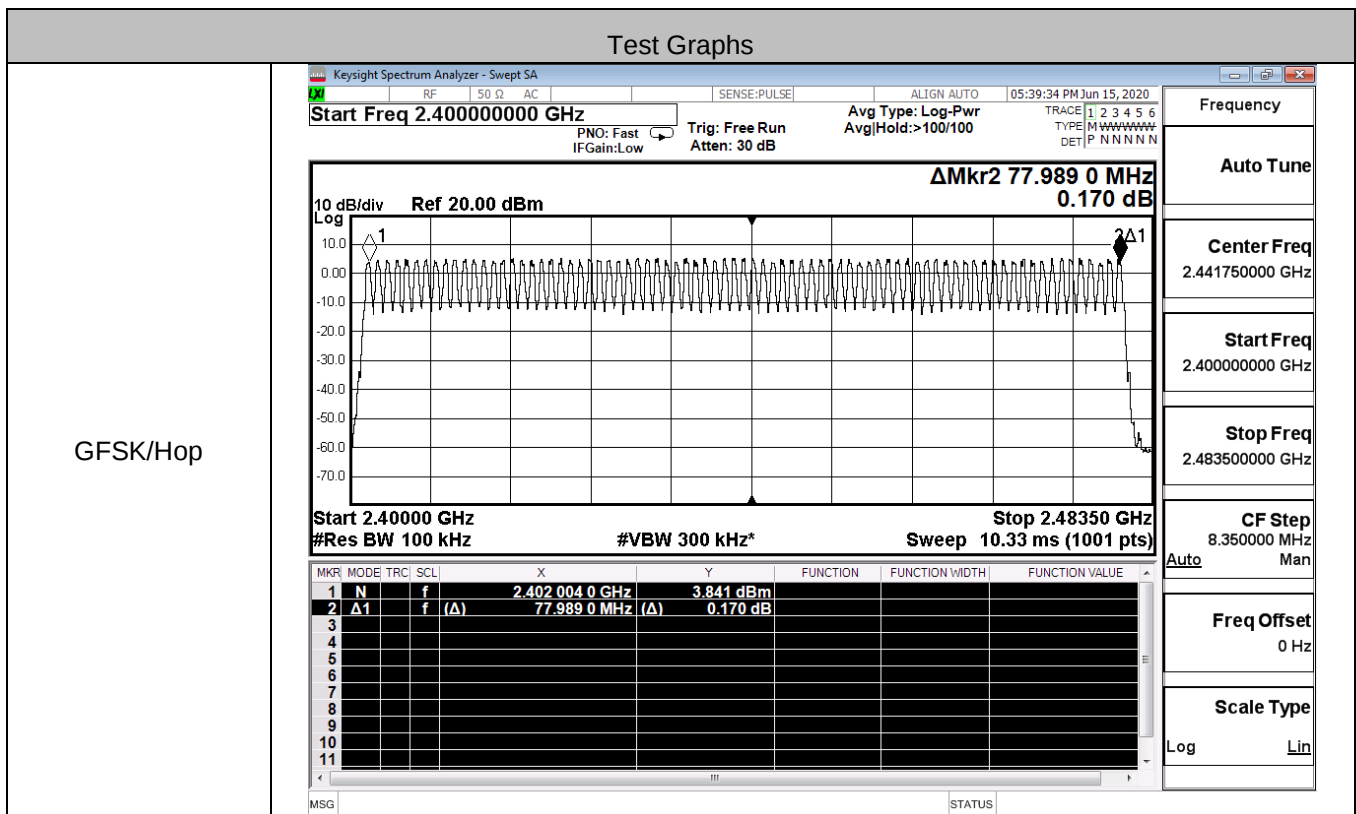


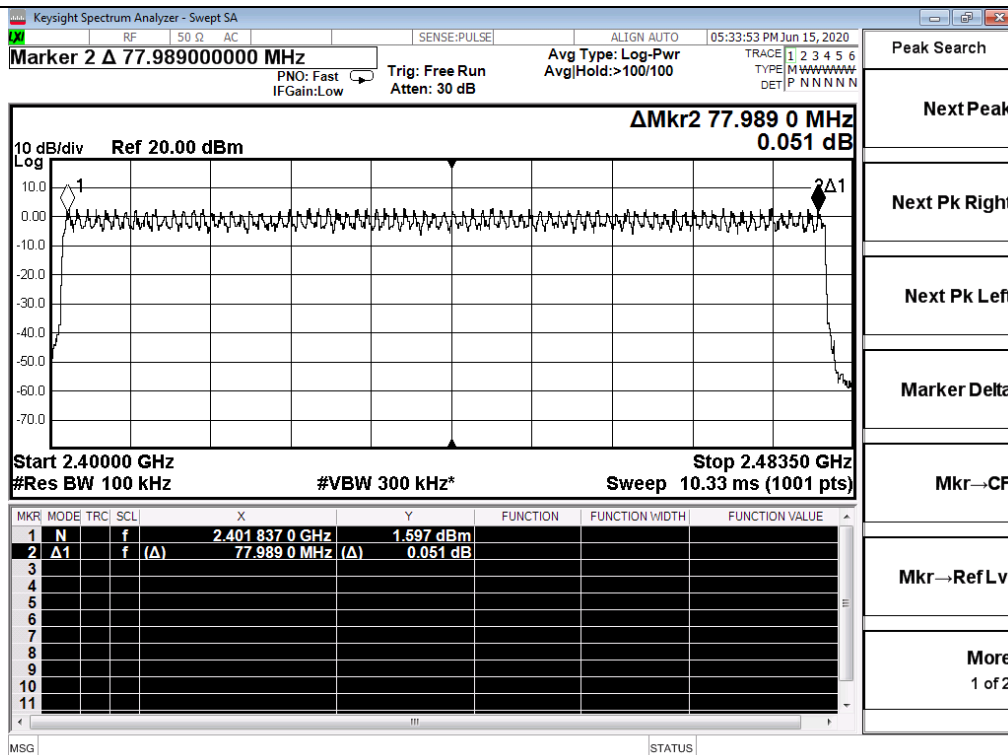
8DPSK/HCH



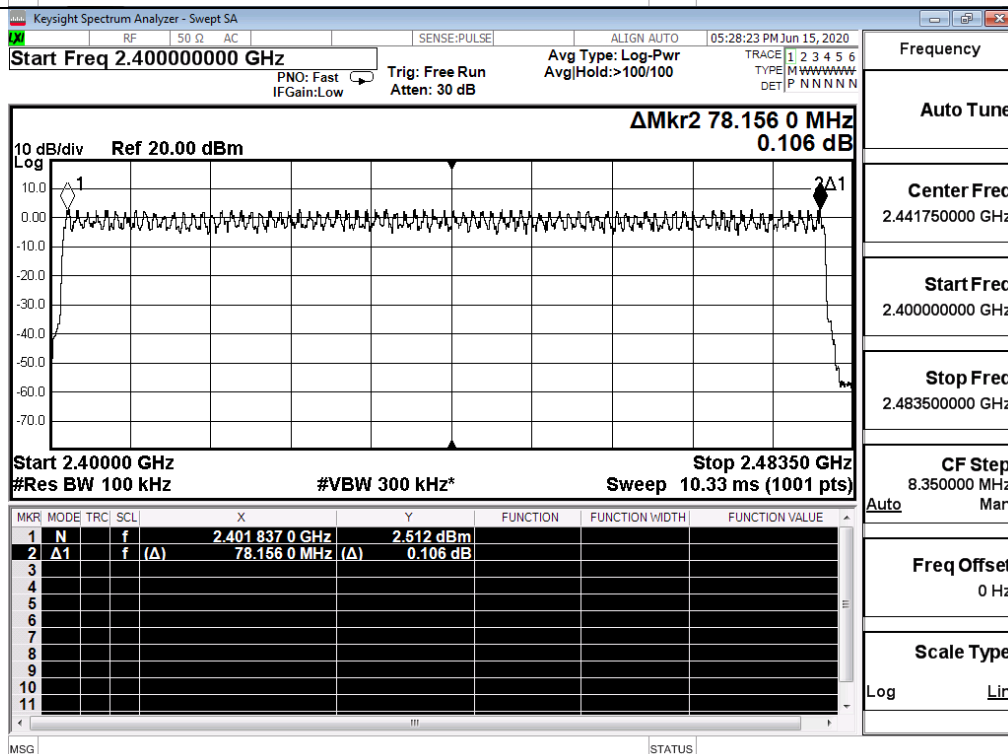
A.4 Hopping Channel Number

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



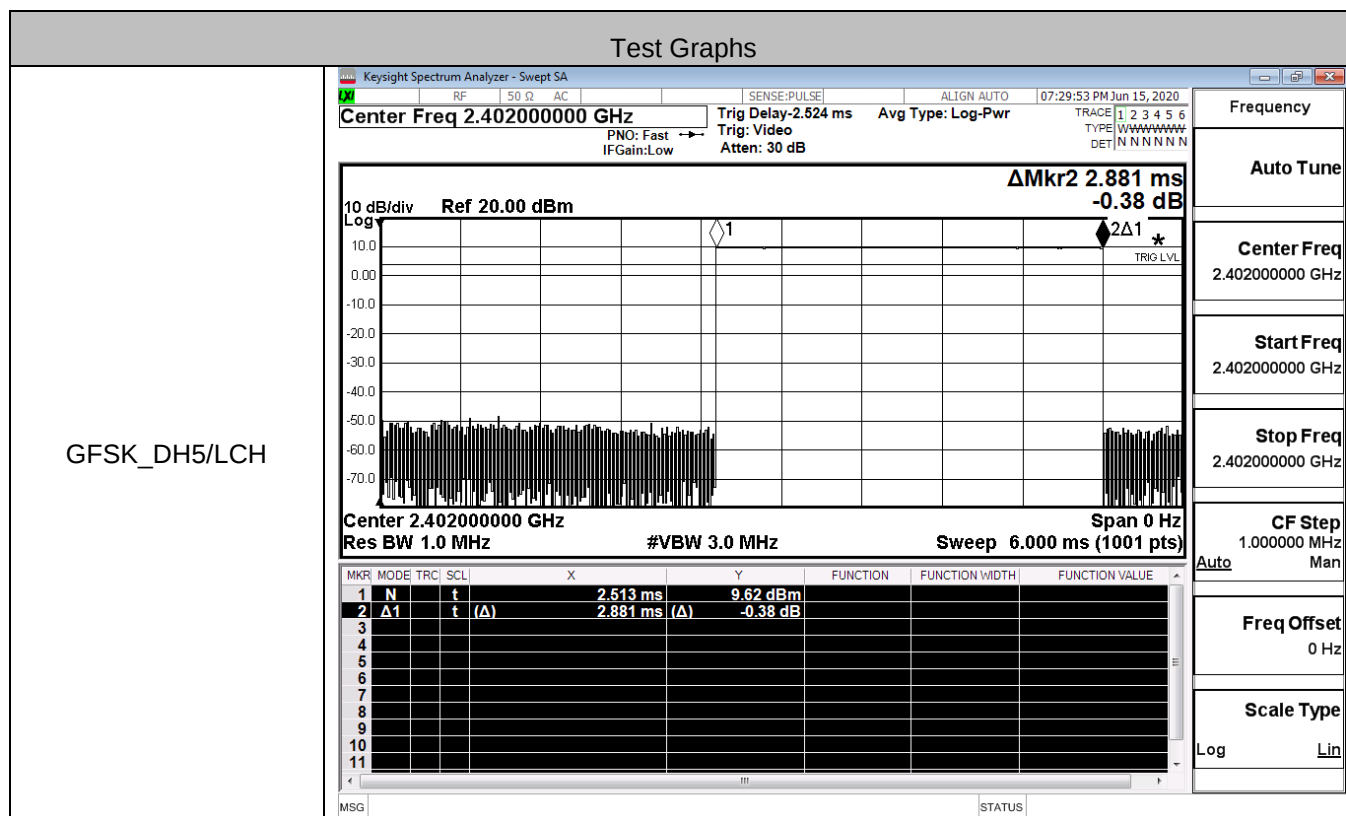
$\pi/4$ DQPSK/Hop

8DPSK/Hop

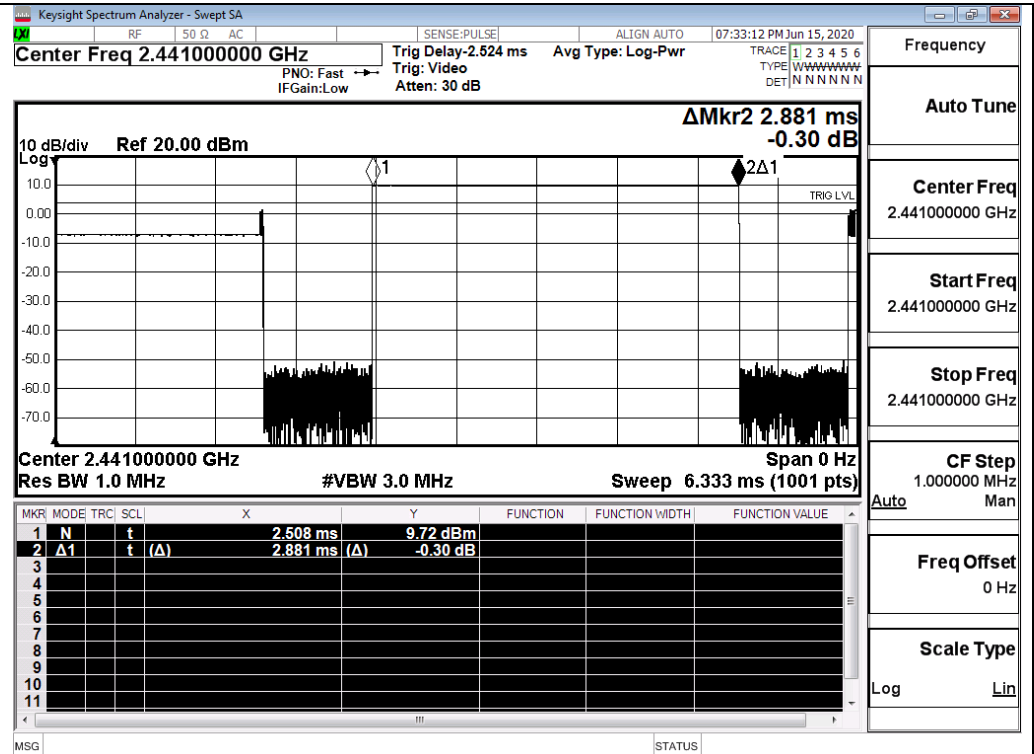


A.5 Dwell Time

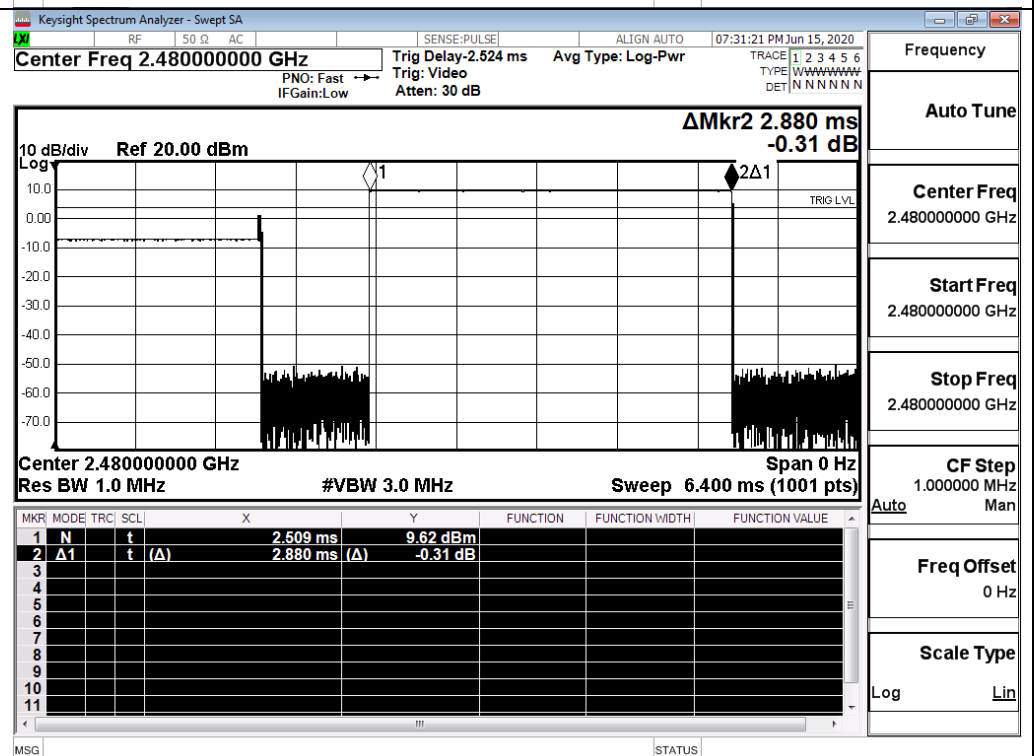
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.89	106.7	0.307	0.4	PASS
	3DH5	MCH	2.89	106.7	0.307	0.4	PASS
	3DH5	HCH	2.88	106.7	0.307	0.4	PASS



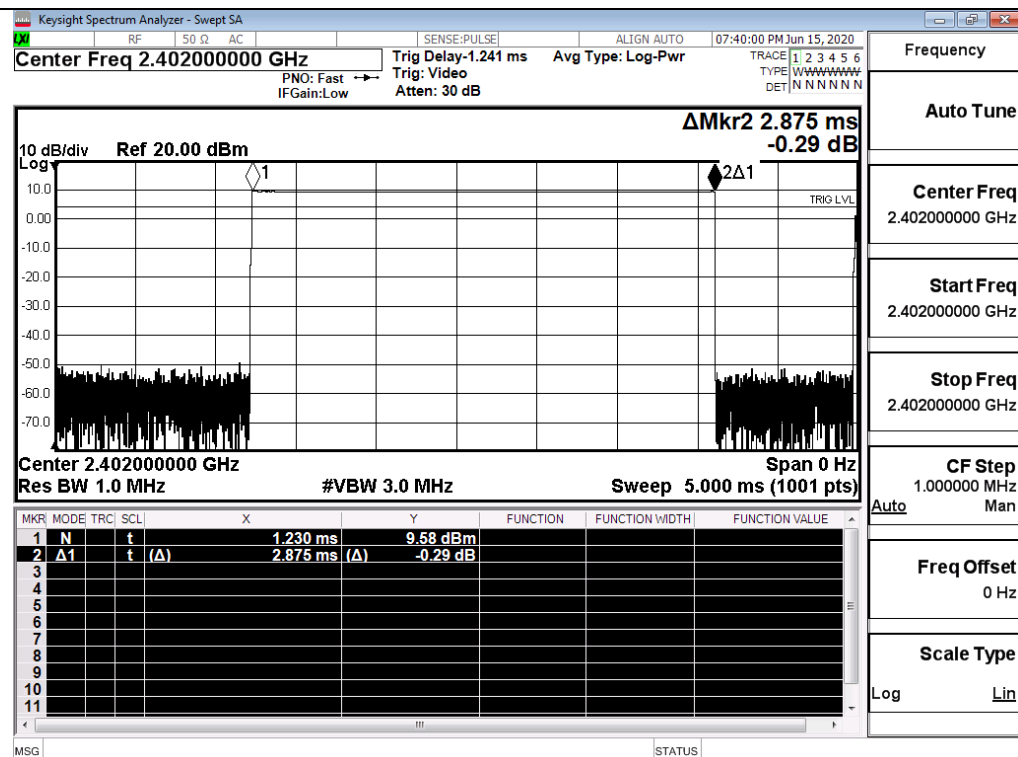
GFSK_DH5/MCH



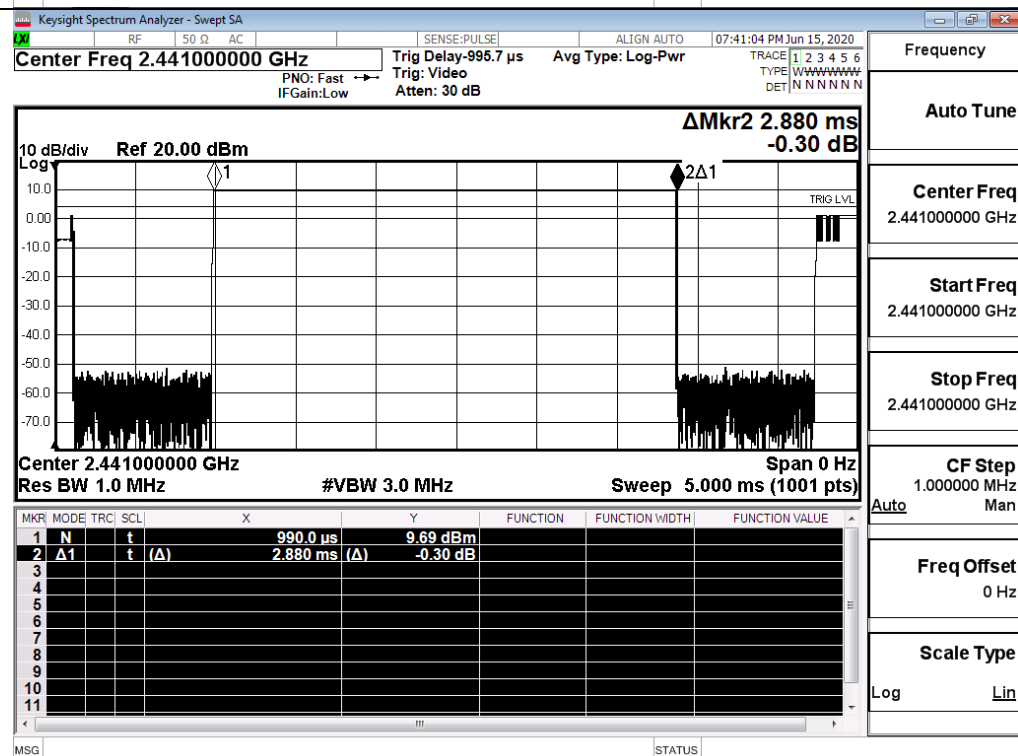
GFSK_DH5/HCH



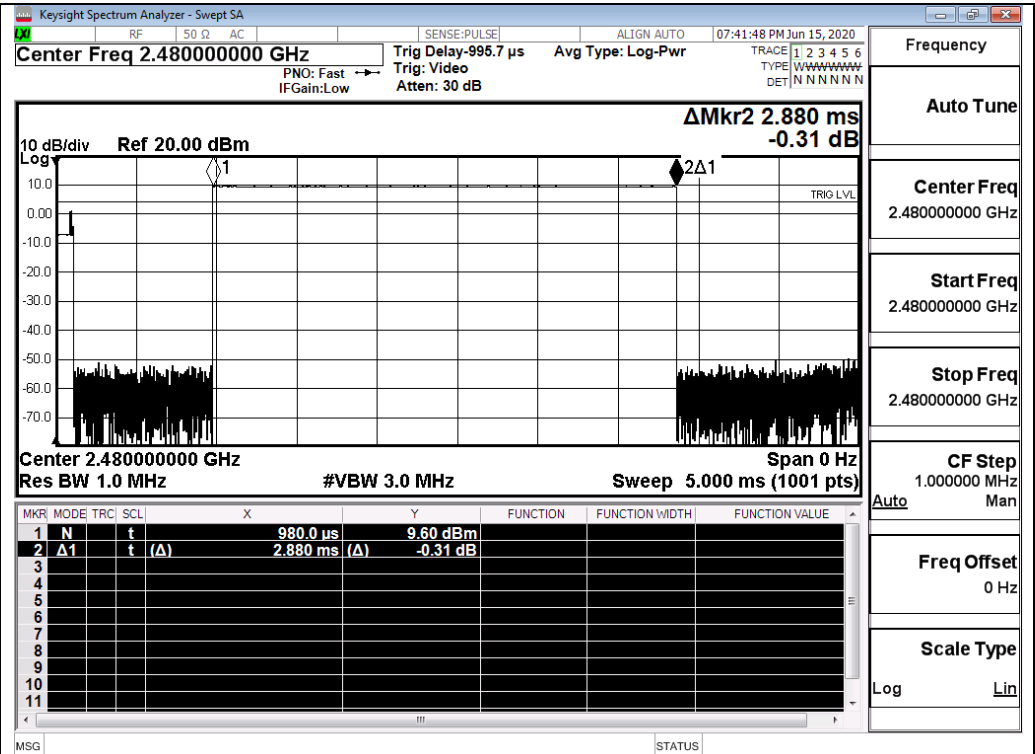
$\pi/4$ DQPSK
_2DH5/LCH



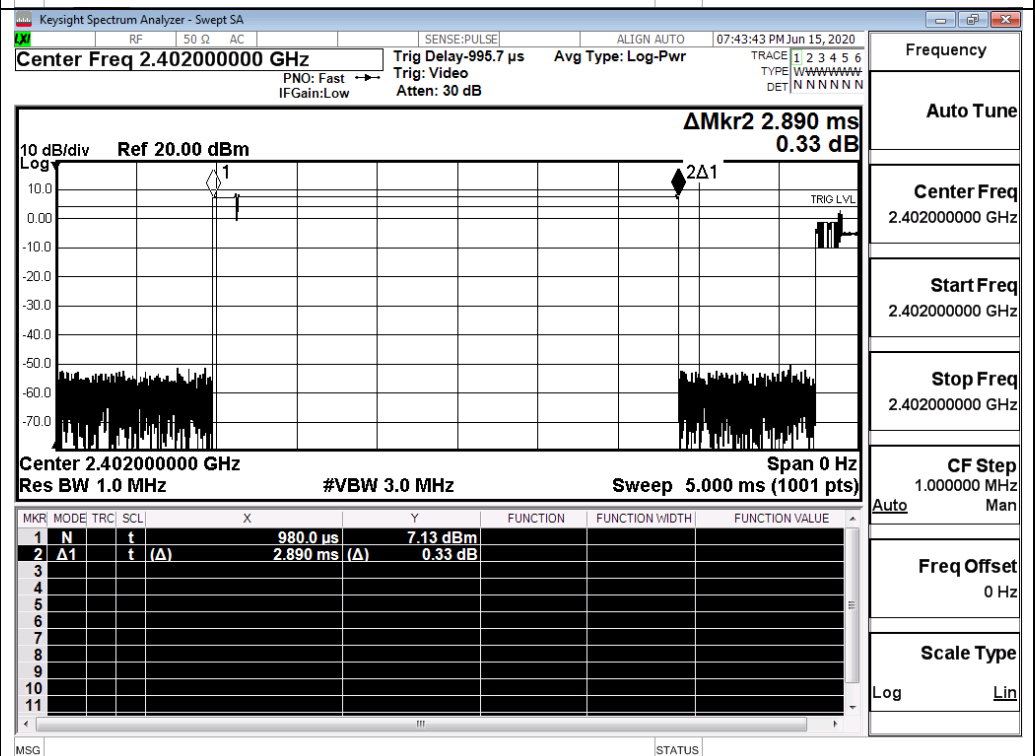
$\pi/4$ DQPSK
_2DH5/MCH



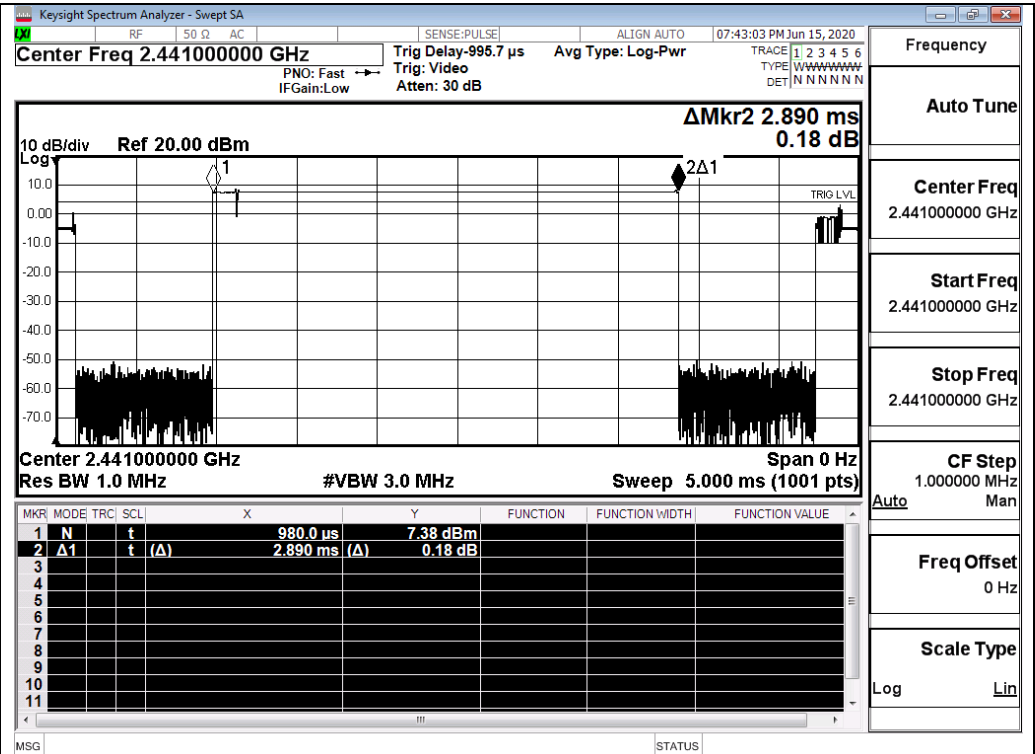
$\pi/4$ DQPSK
_2DH5/HCH



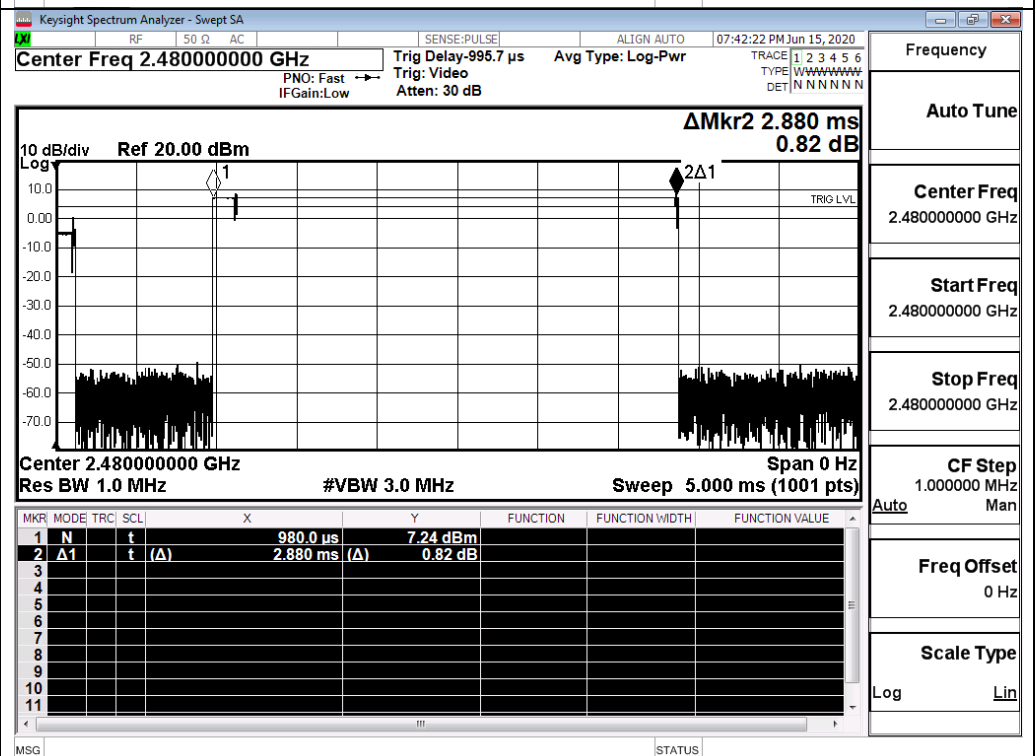
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



8DPSK_3DH5/HCH

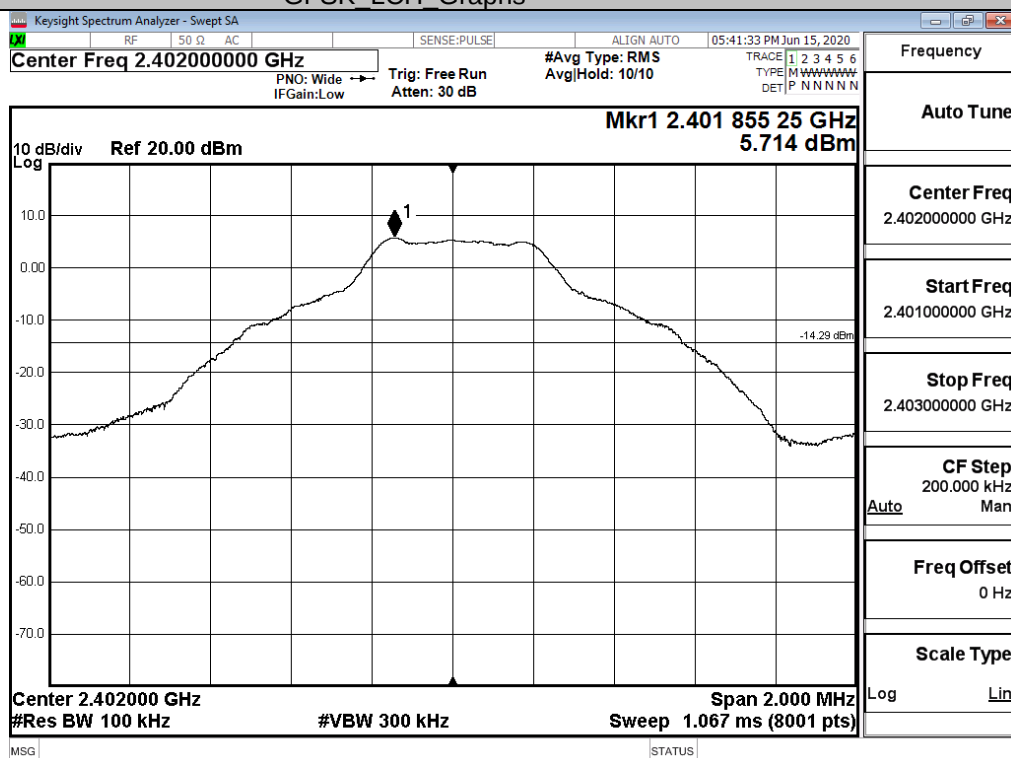


A.6 RF Conducted Spurious Emissions

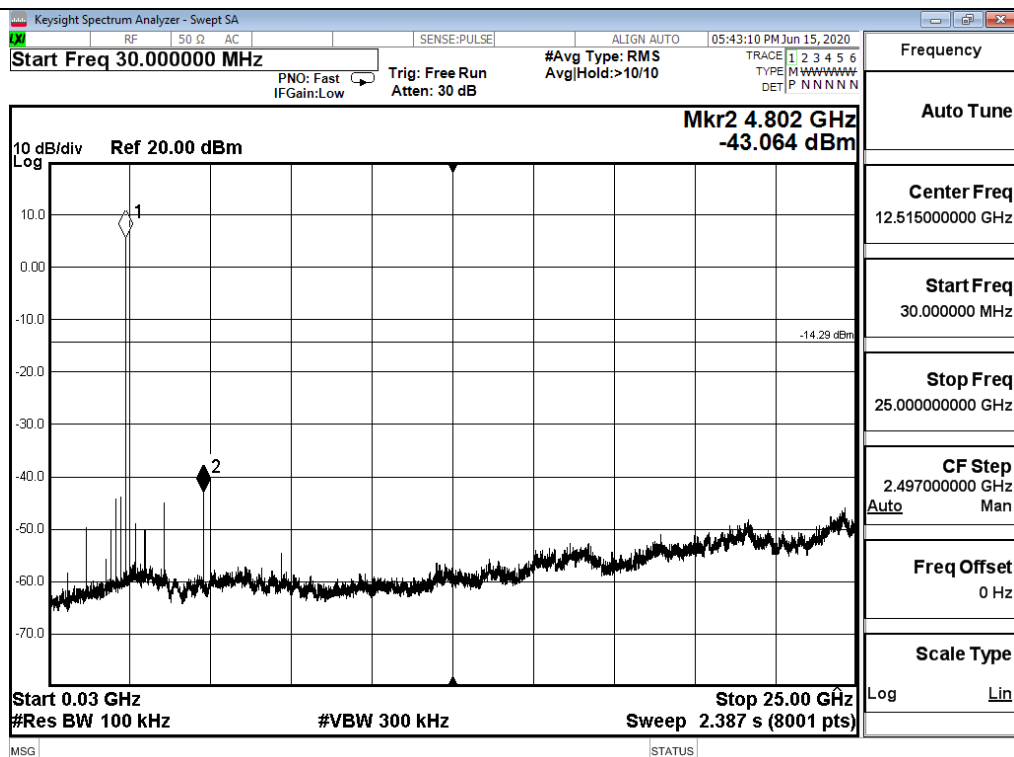
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	5.714	-43.064	-14.29	PASS
	MCH	5.787	-41.235	-14.21	PASS
	HCH	5.598	-42.195	-14.40	PASS
$\pi/4$ DQPSK	LCH	3.308	-42.314	-16.69	PASS
	MCH	3.399	-42.174	-16.60	PASS
	HCH	3.214	-47.707	-16.79	PASS
8DPSK	LCH	3.298	-41.734	-16.70	PASS
	MCH	3.374	-41.829	-16.63	PASS
	HCH	3.207	-47.015	-16.79	PASS

GFSK LCH Graphs

Pref

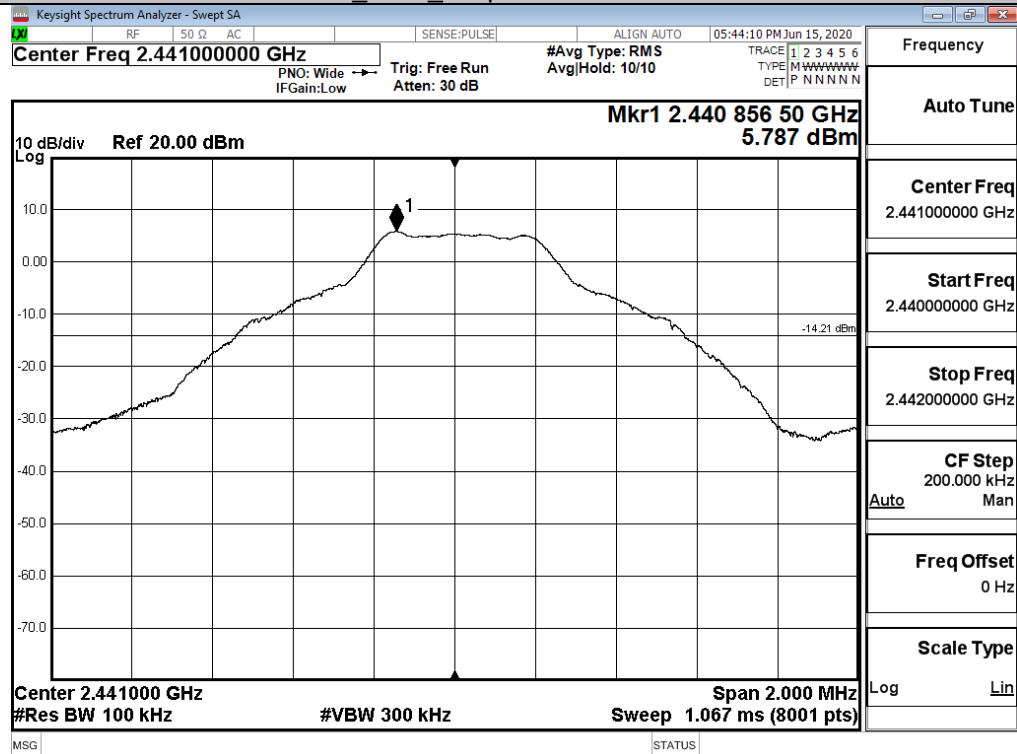


PuW

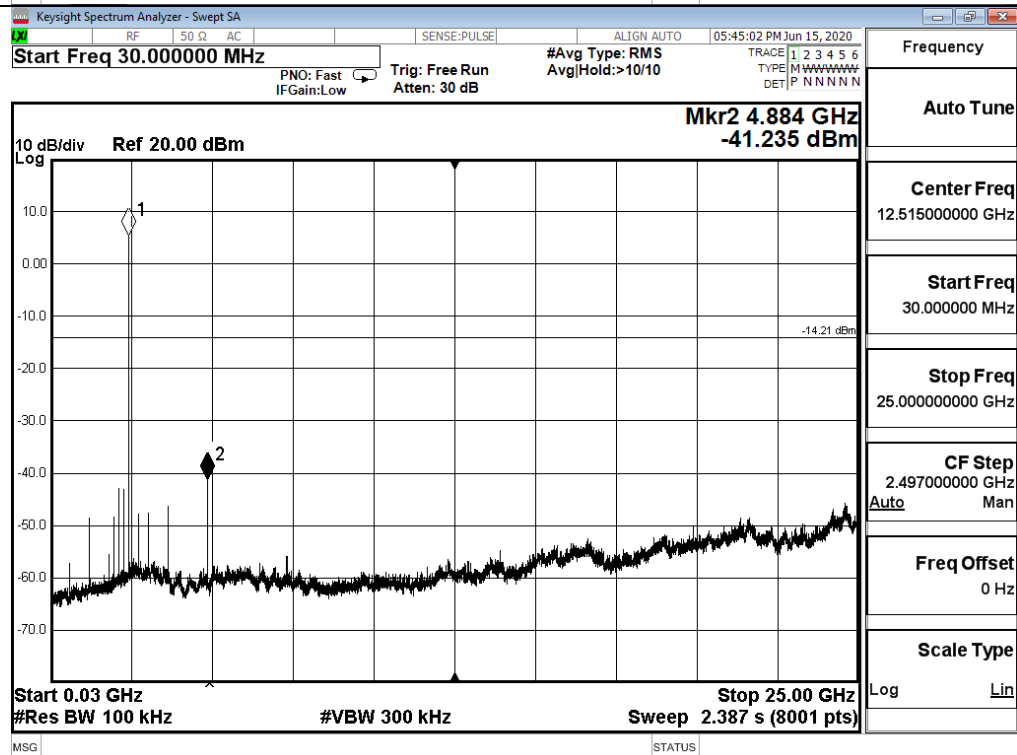


GFSK_MCH_Graphs

Pref

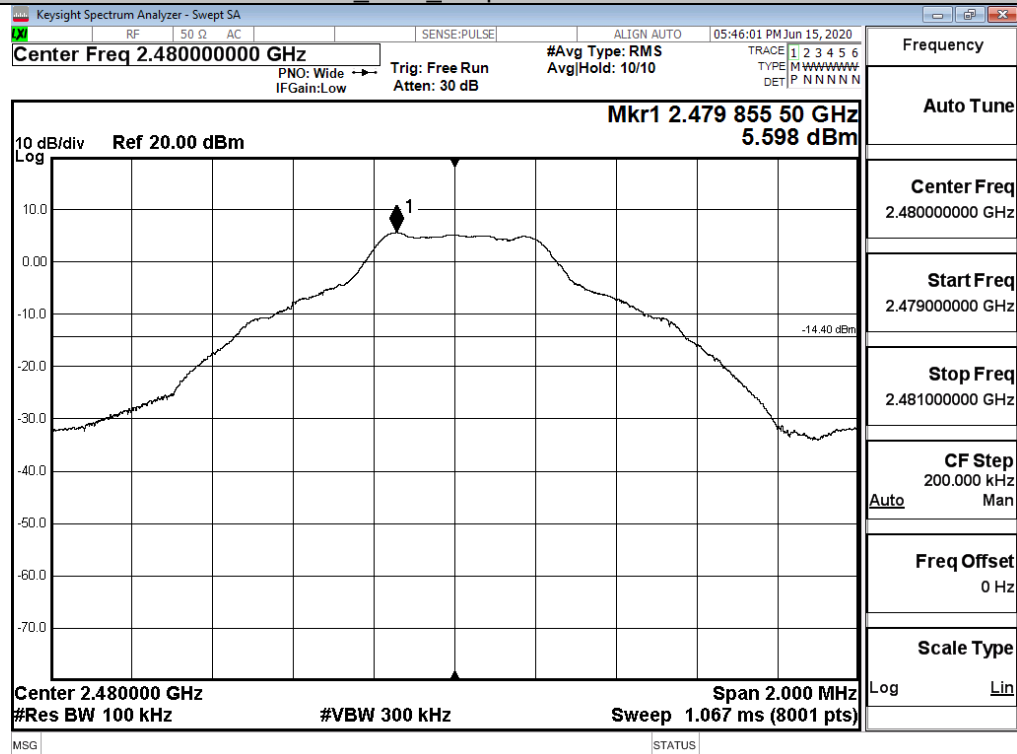


Puw

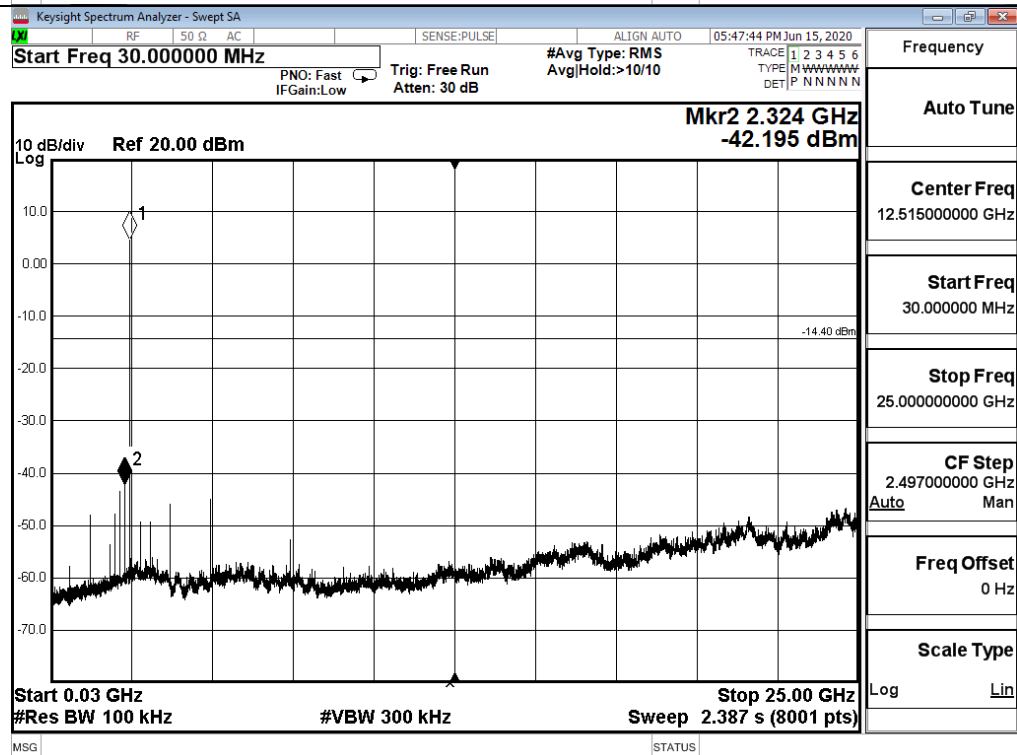


GFSK_HCH_Graphs

Pref

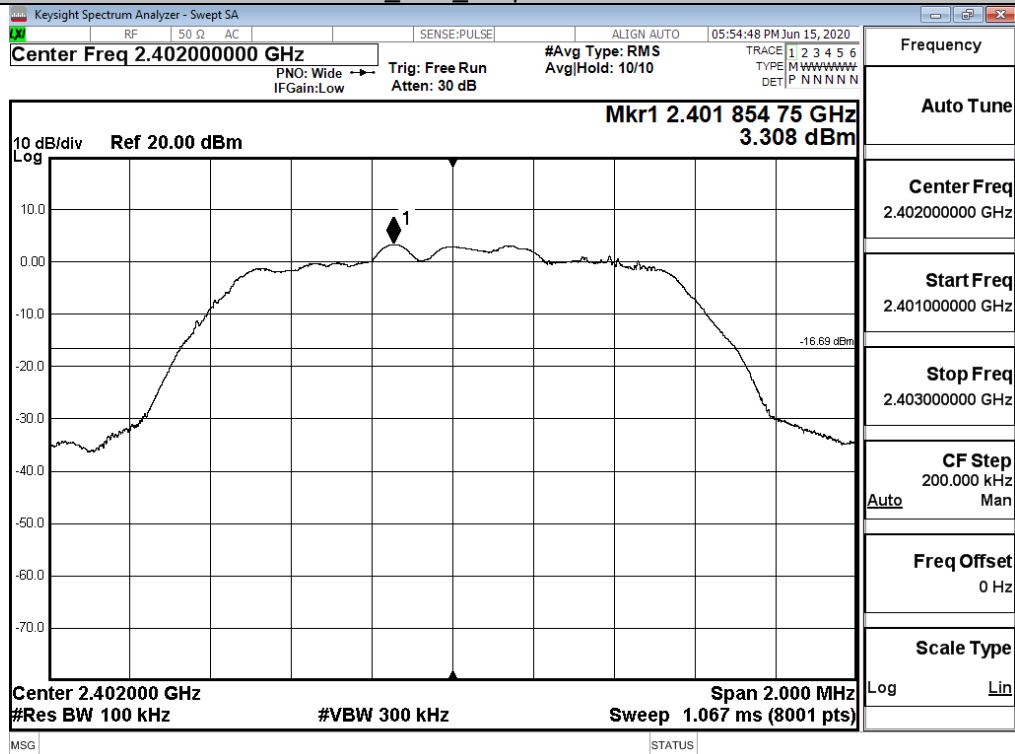


Puw

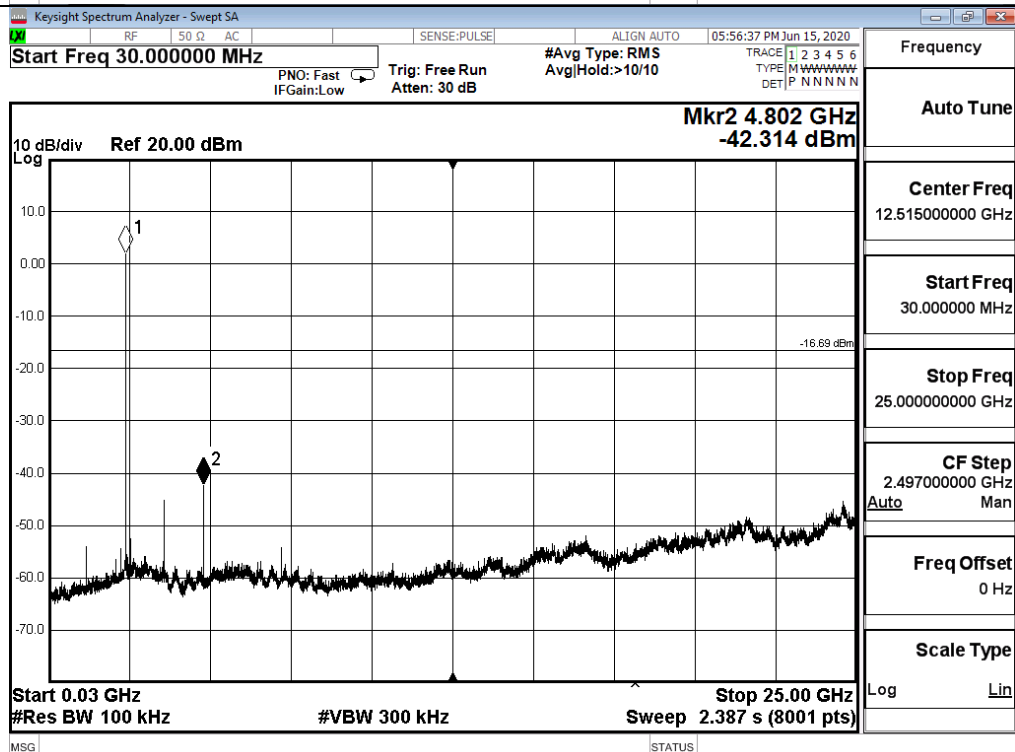


$\pi/4$ DQPSK_LCH_Graphs

Pref

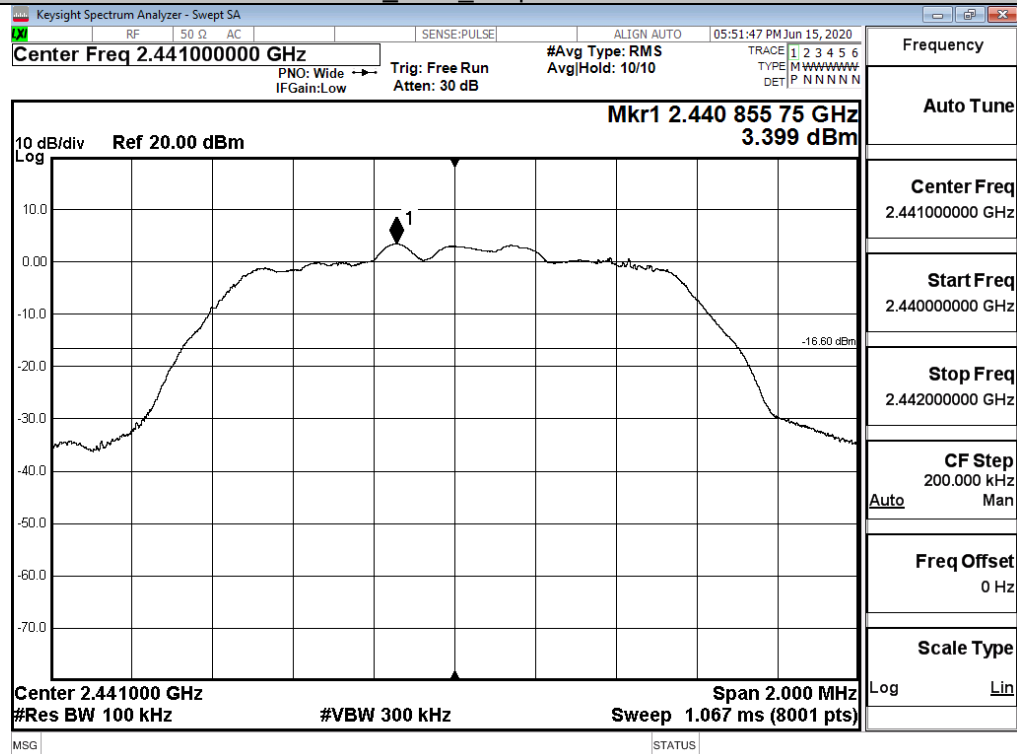


Puw

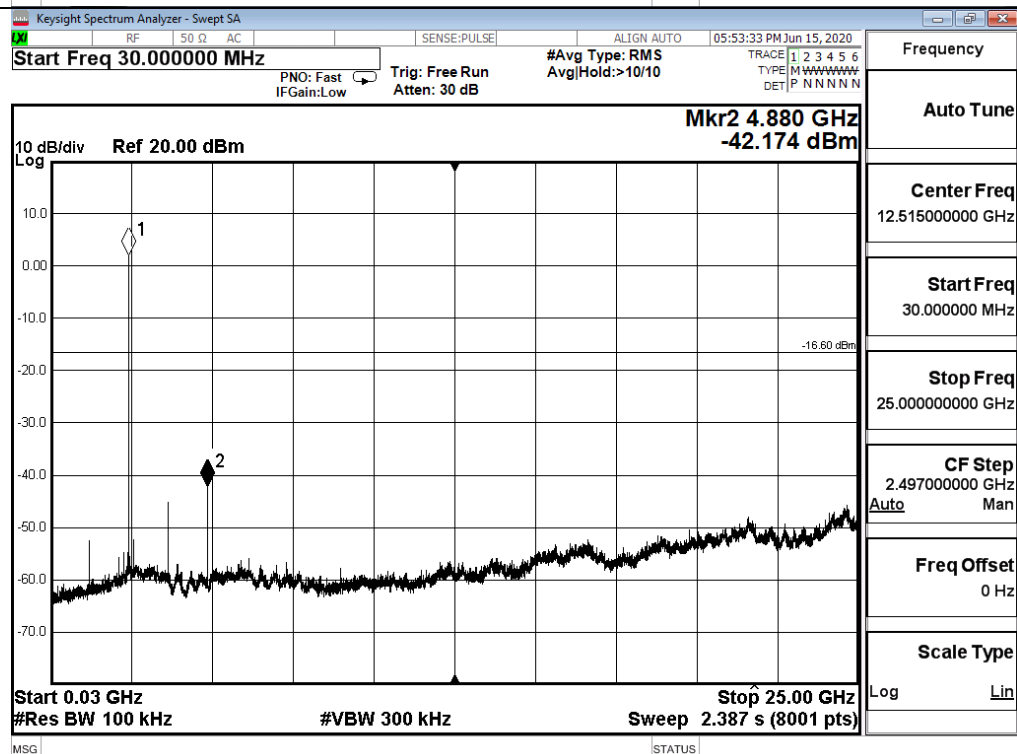


$\pi/4$ DQPSK_MCH_Graphs

Pref

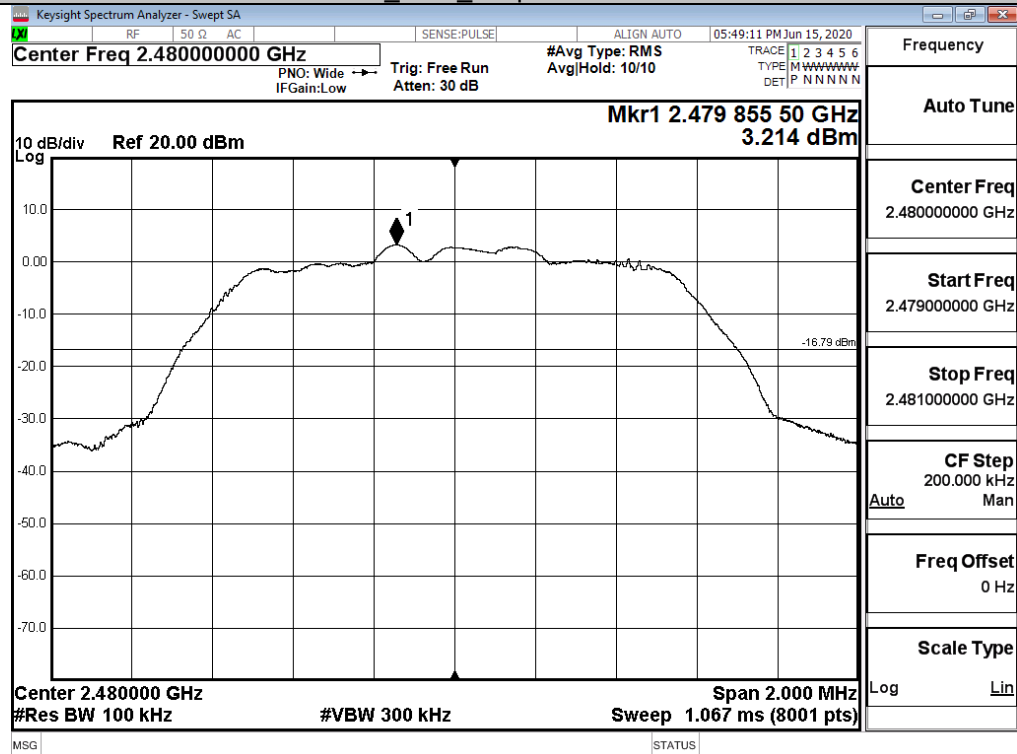


Puw

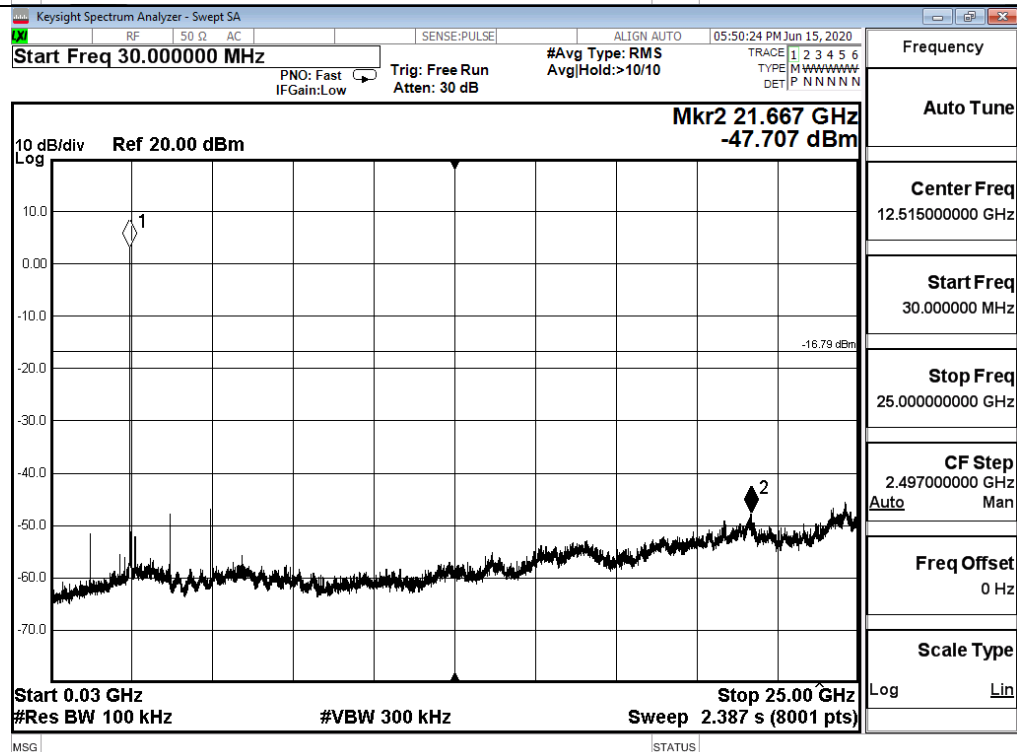


$\pi/4$ DQPSK_HCH_Graphs

Pref

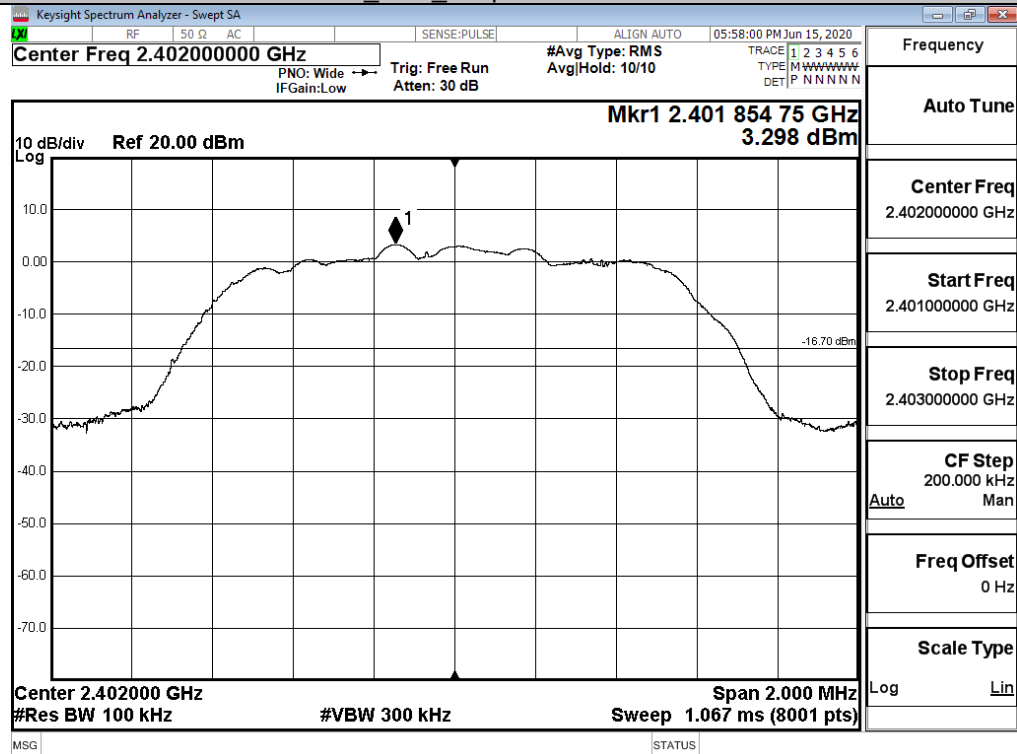


Puw

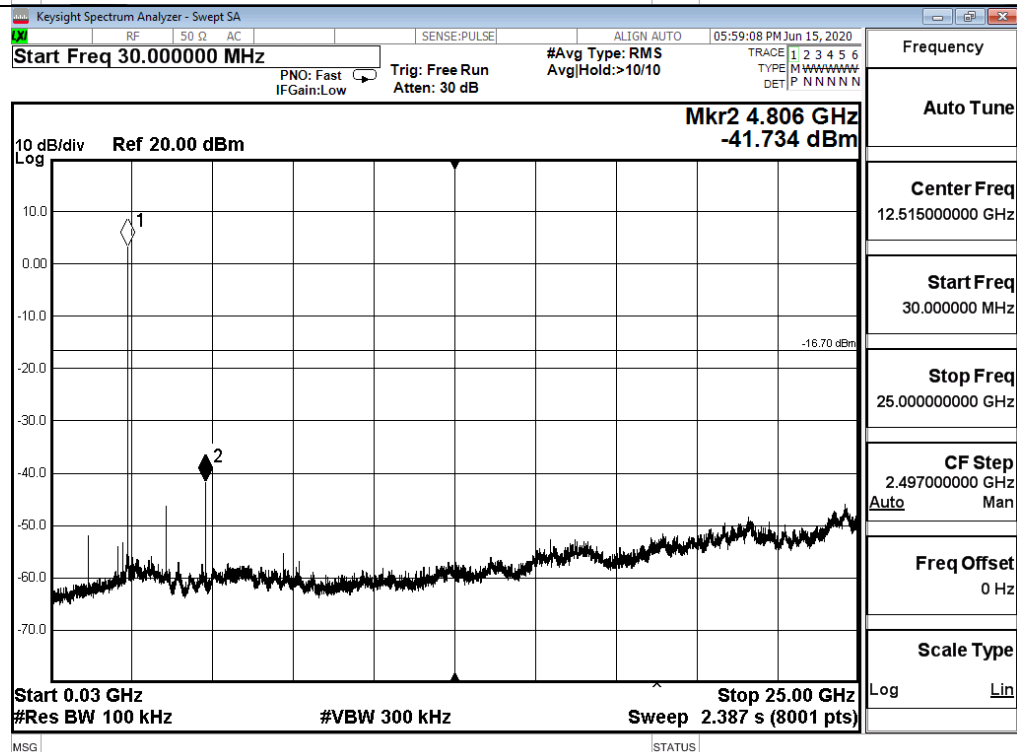


8DPSK_LCH_Graphs

Pref

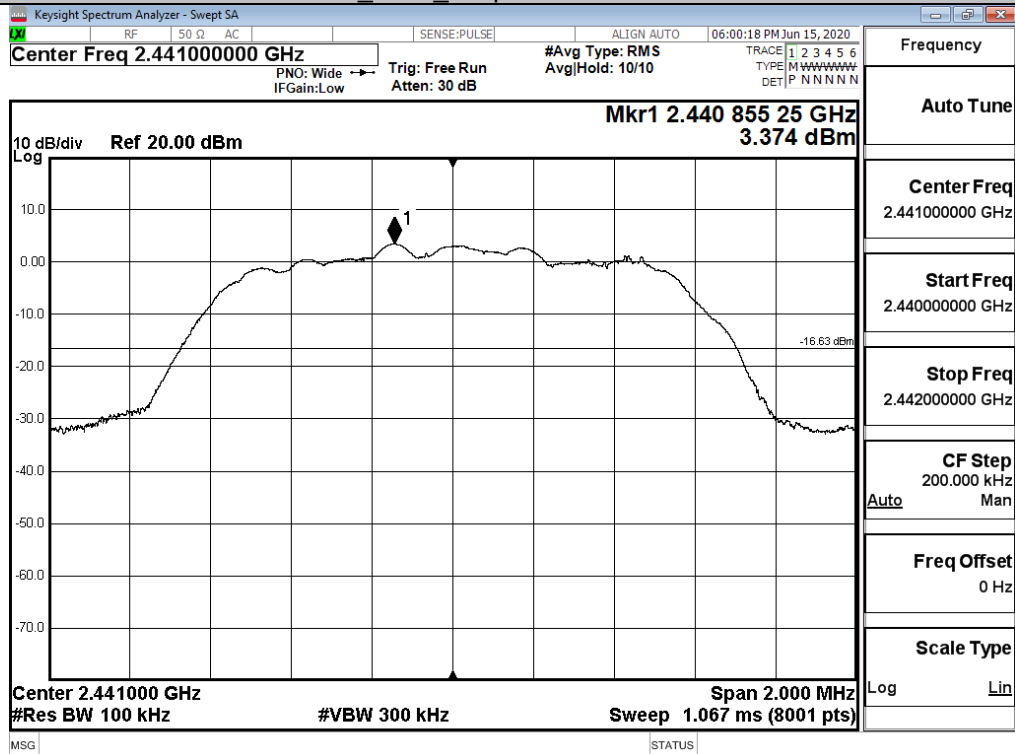


Puw

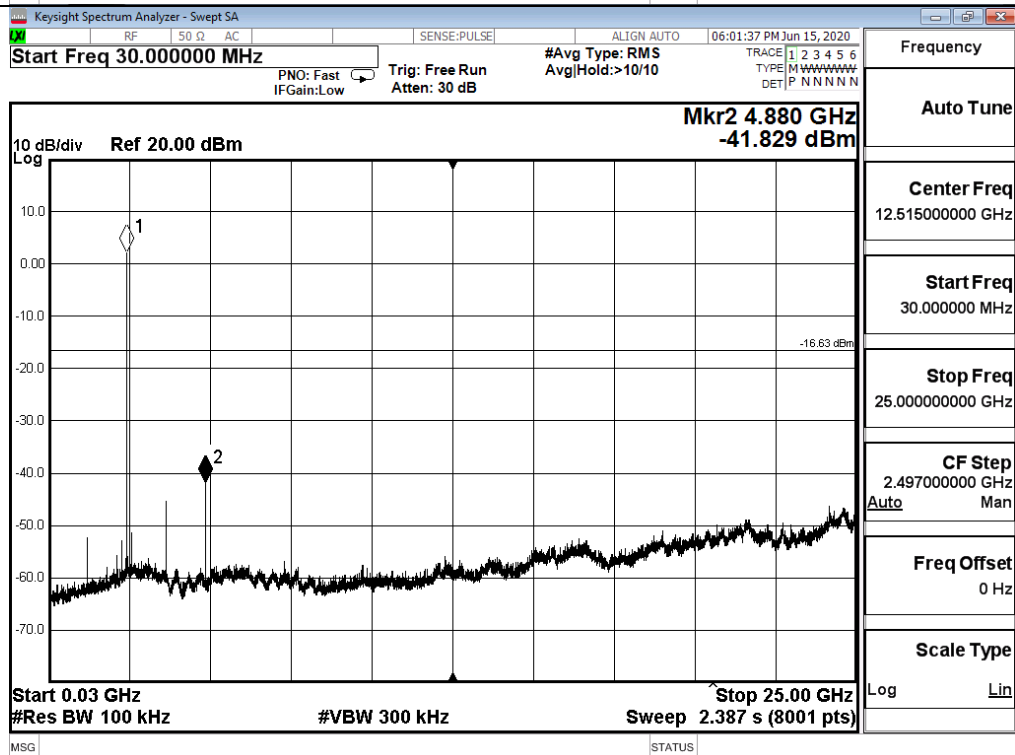


8DPSK_MCH_Graphs

Pref

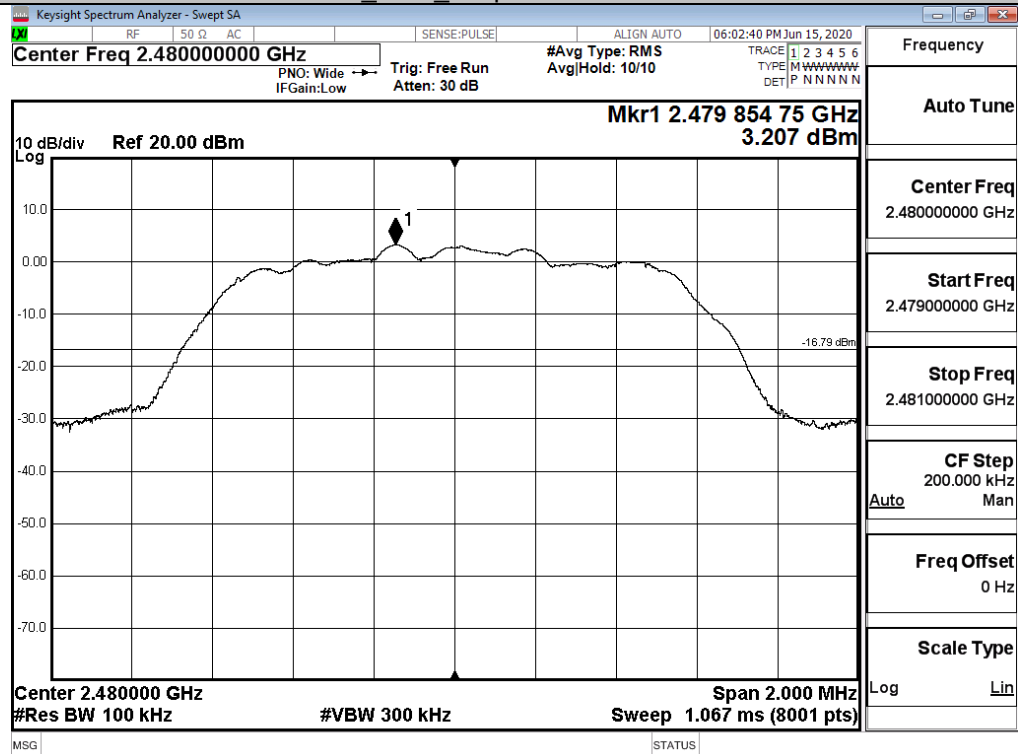


Puw

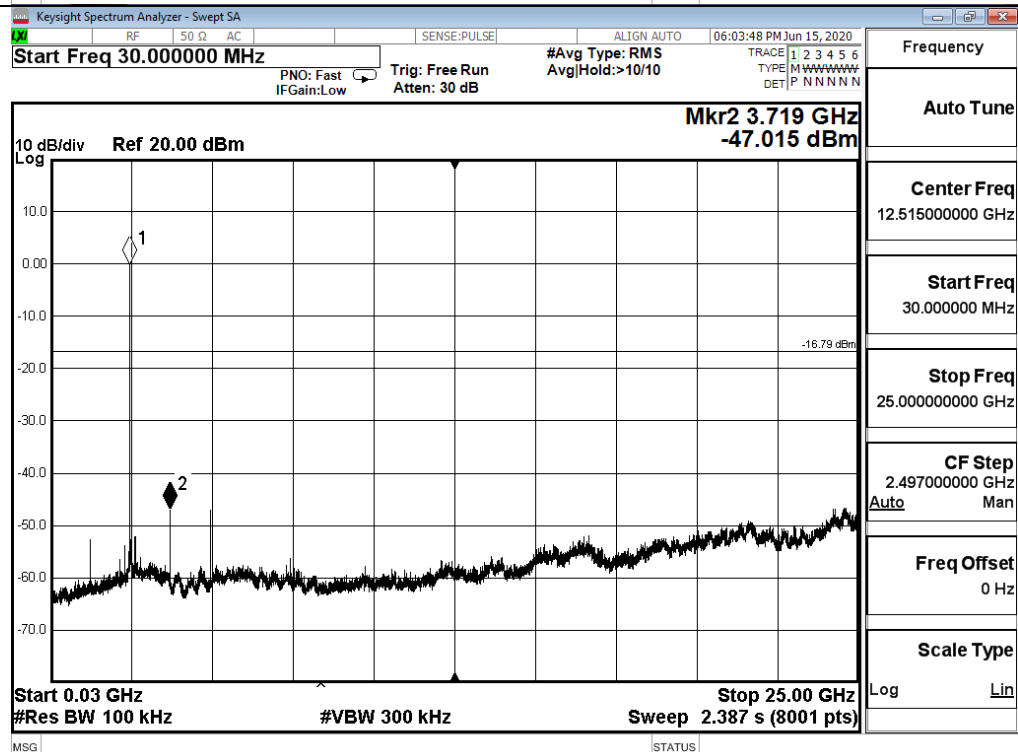


8DPSK_HCH_Graphs

Pref



Puw

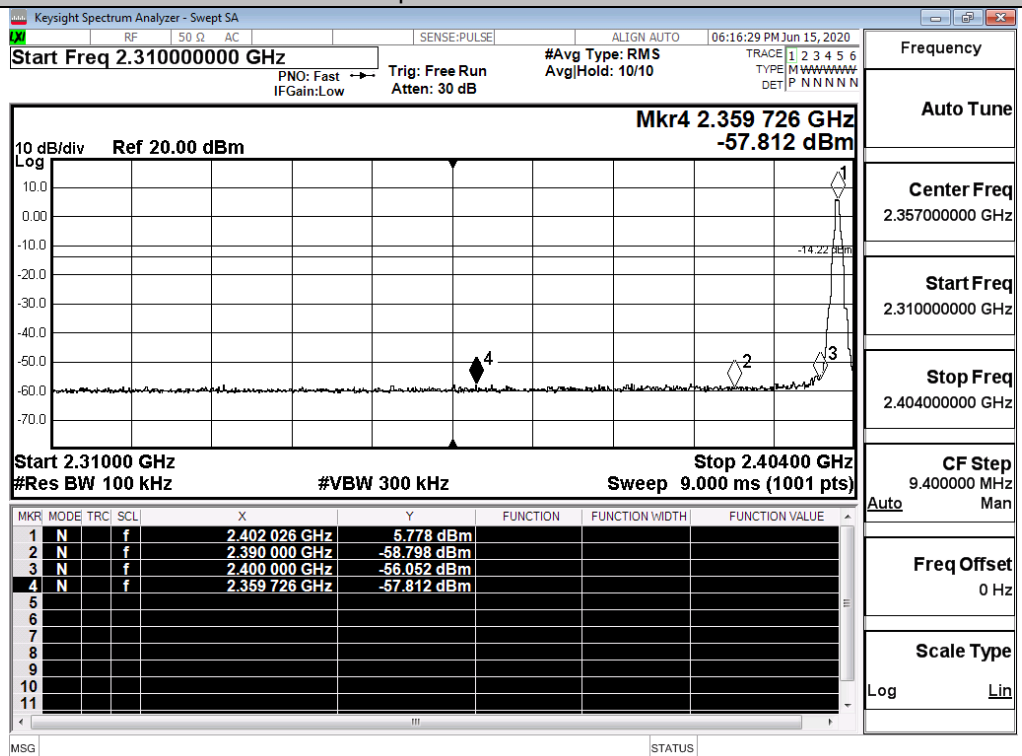


A.7 Band-edge for RF Conducted Emissions

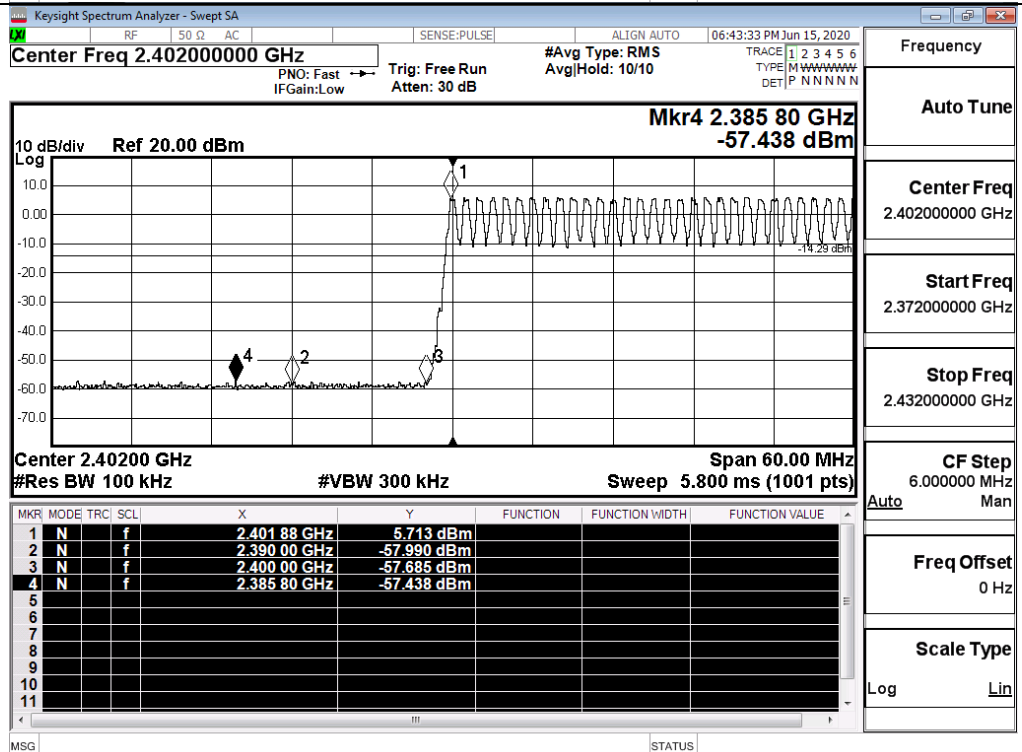
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	5.778	Off	-57.812	-14.22	PASS
			5.713	On	-57.438	-14.29	PASS
	HCH	2480	5.644	Off	-57.071	-14.36	PASS
			5.390	On	-55.613	-14.61	PASS
$\pi/4$ DQPSK	LCH	2402	3.379	Off	-56.401	-16.62	PASS
			2.903	On	-54.361	-17.10	PASS
	HCH	2480	3.245	Off	-54.323	-16.75	PASS
			2.917	On	-53.149	-17.08	PASS
8DPSK	LCH	2402	3.367	Off	-55.748	-16.63	PASS
			2.957	On	-55.298	-17.04	PASS
	HCH	2480	3.271	Off	-52.320	-16.73	PASS
			3.243	On	-53.355	-16.76	PASS

Test Graphs

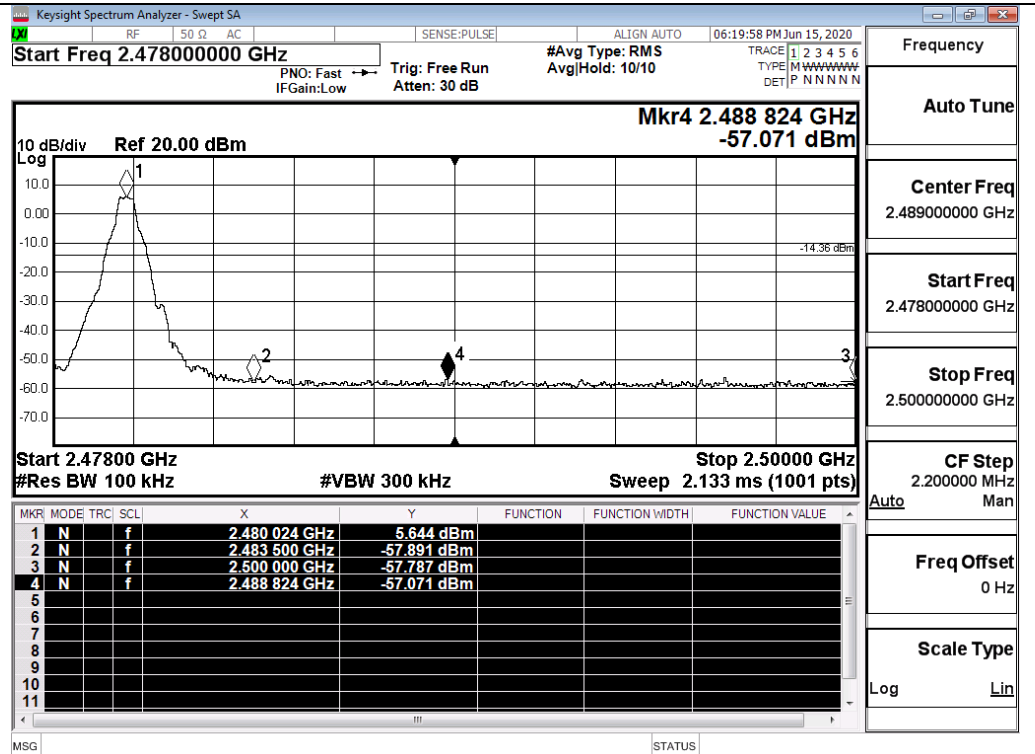
GFSK/LCH/No Hop



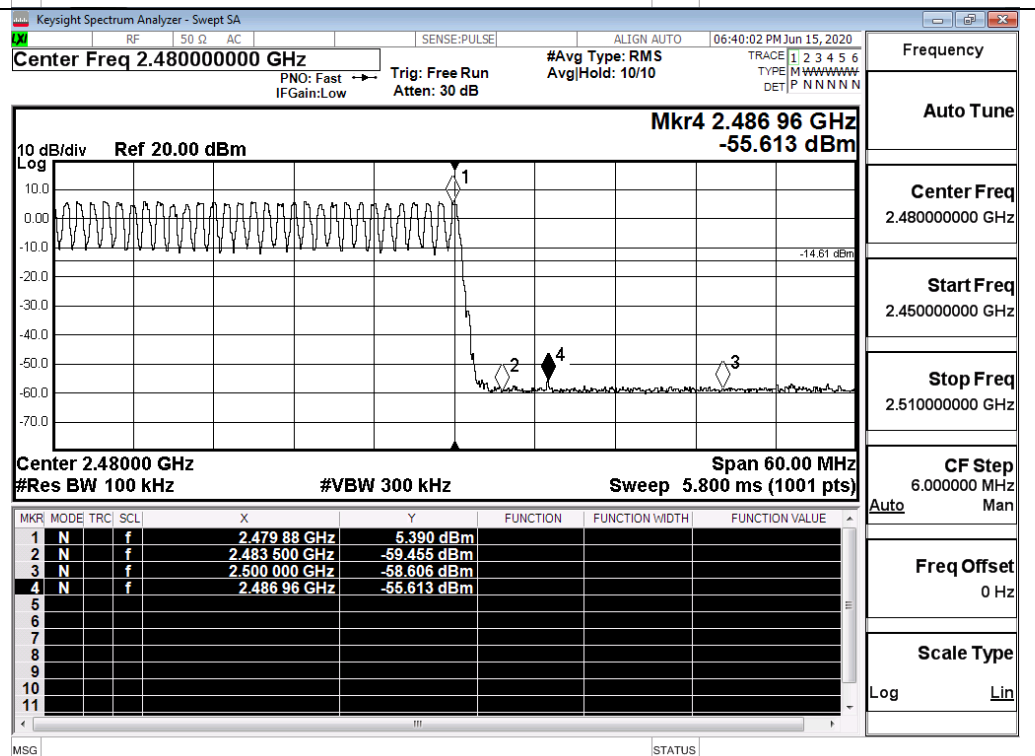
GFSK/LCH/Hop



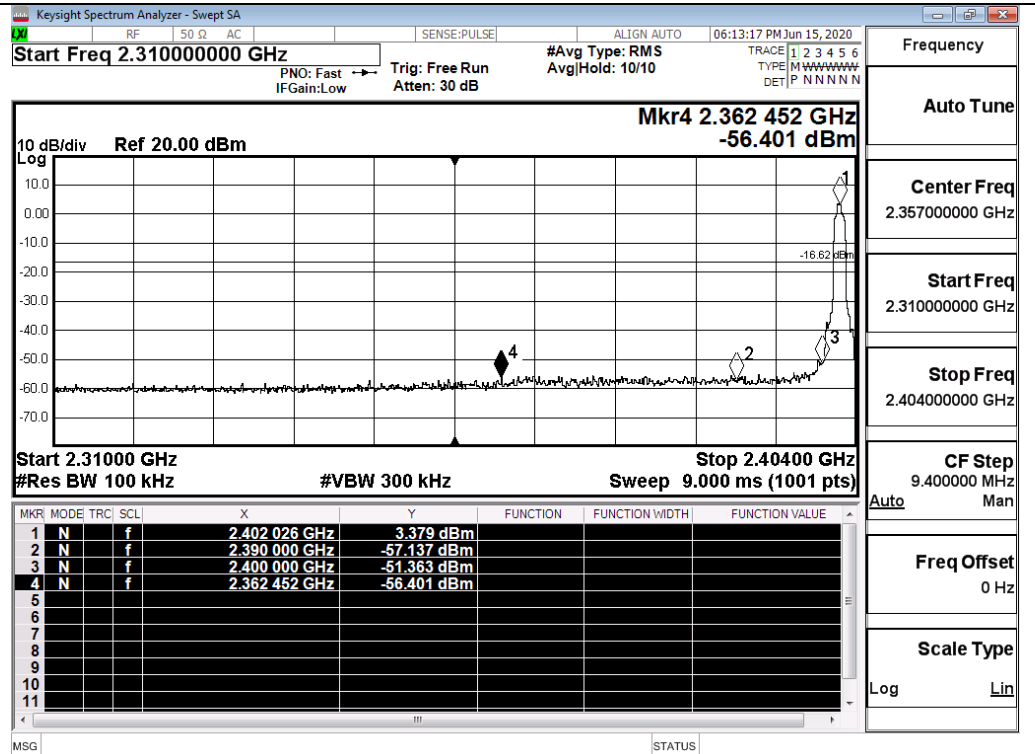
GFSK/HCH/No Hop



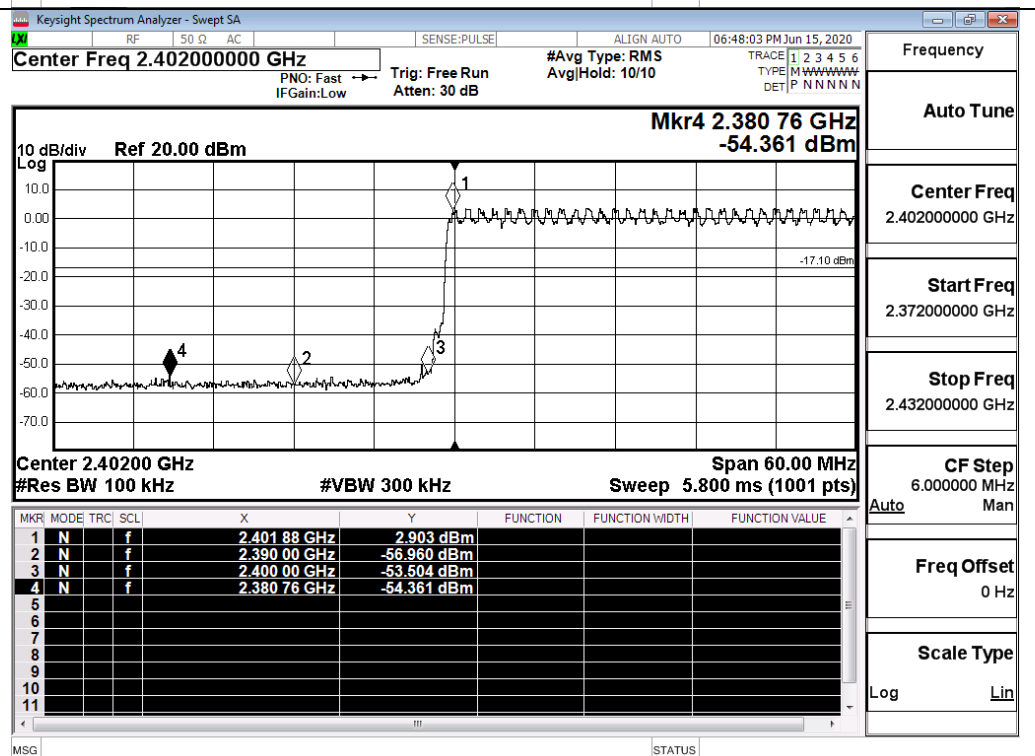
GFSK/HCH/Hop



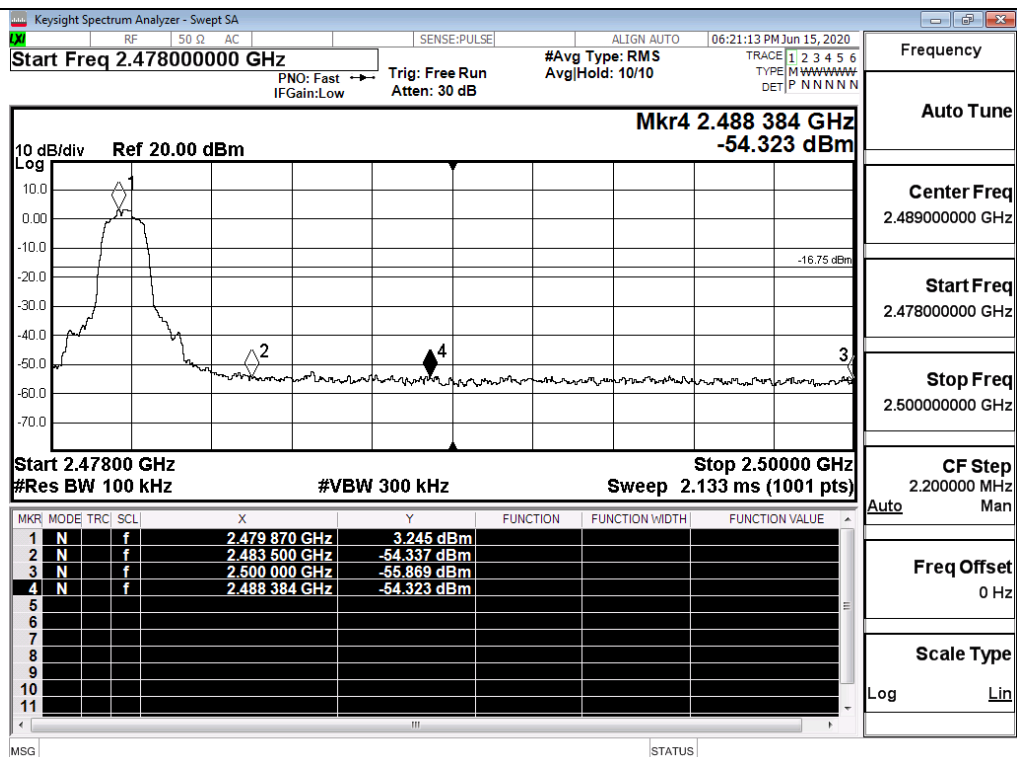
$\pi/4$ DQPSK/LCH/No
Hop



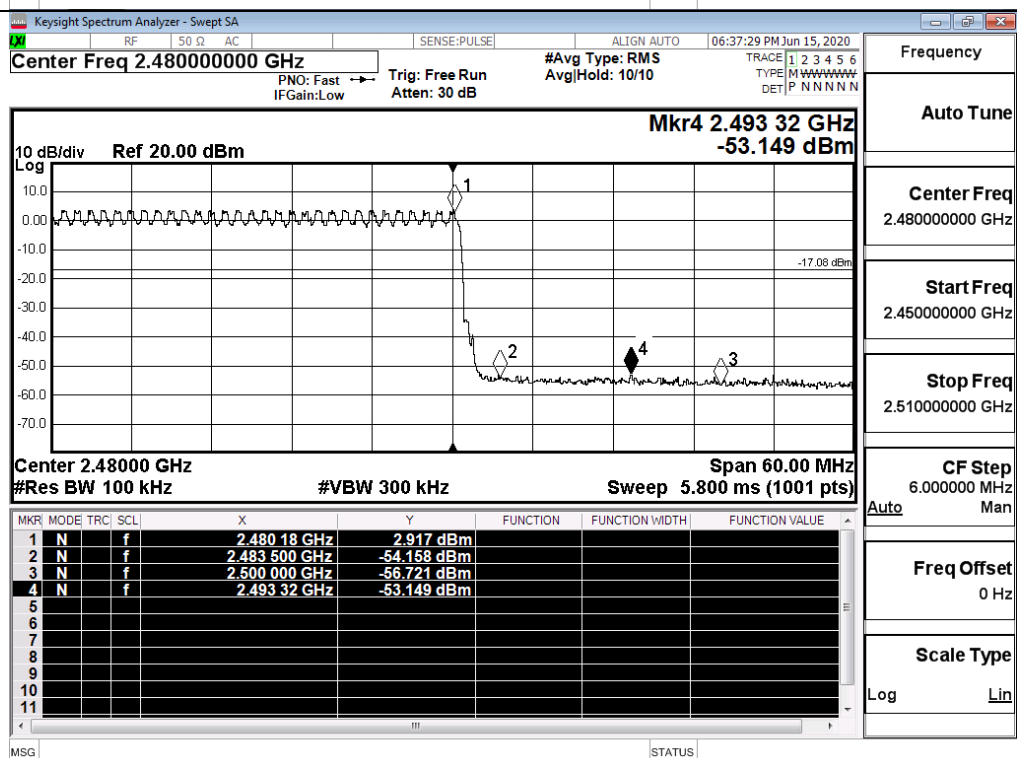
$\pi/4$ DQPSK/LCH/Hop



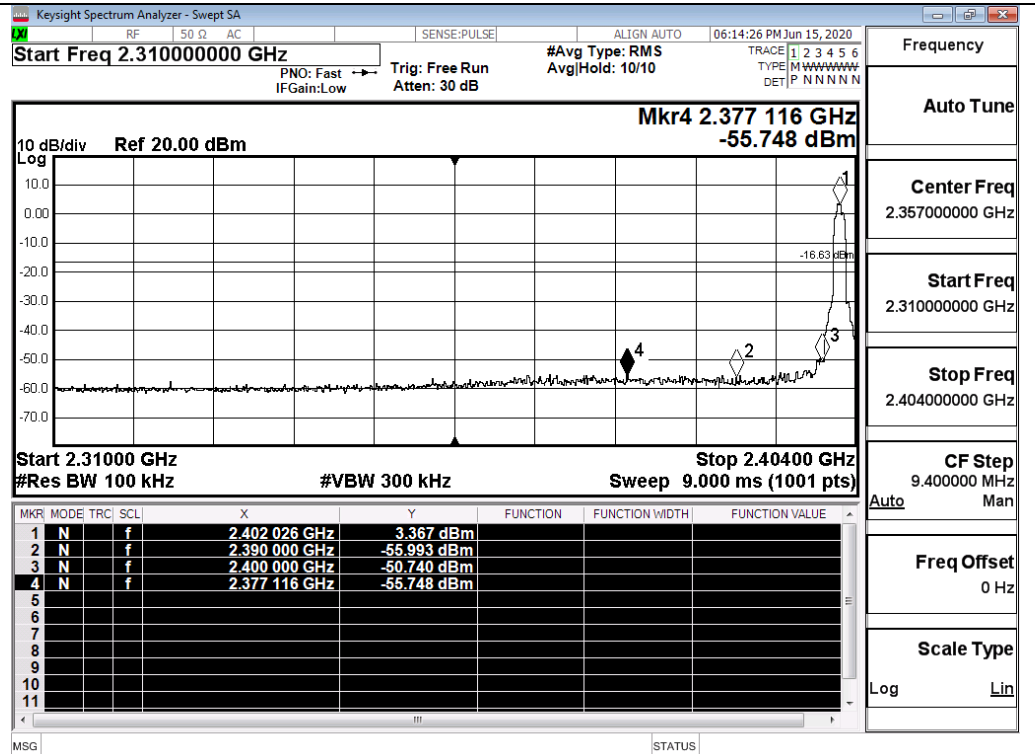
$\pi/4$ DQPSK/HCH/No
Hop



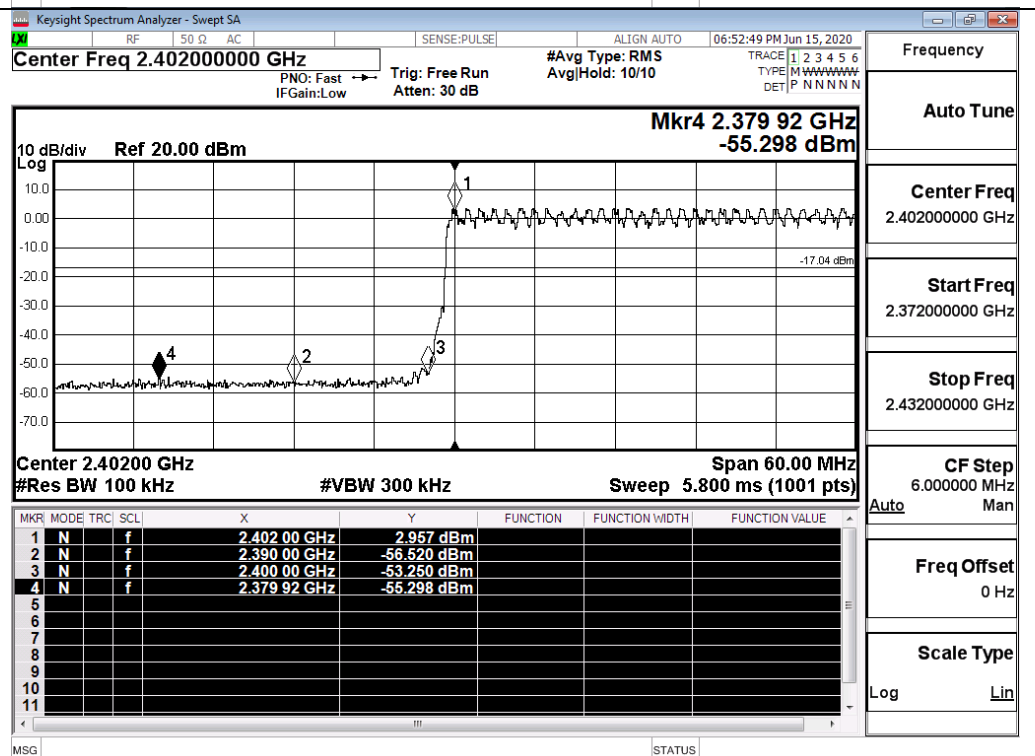
$\pi/4$ DQPSK/HCH/Hop



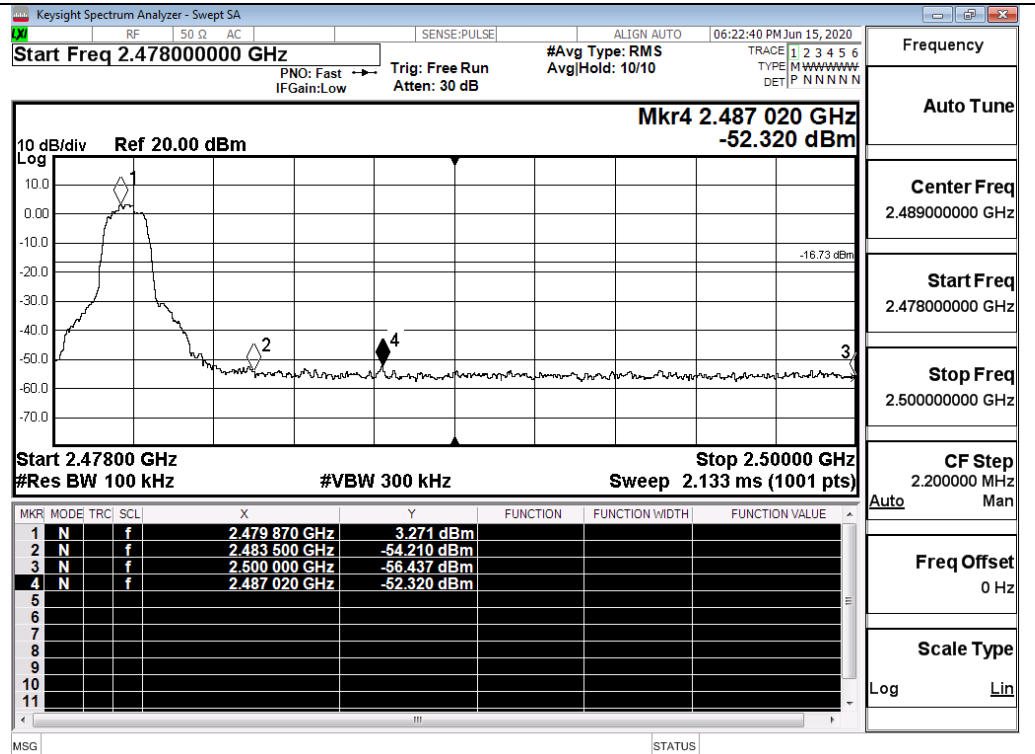
8DPSK/LCH/No Hop



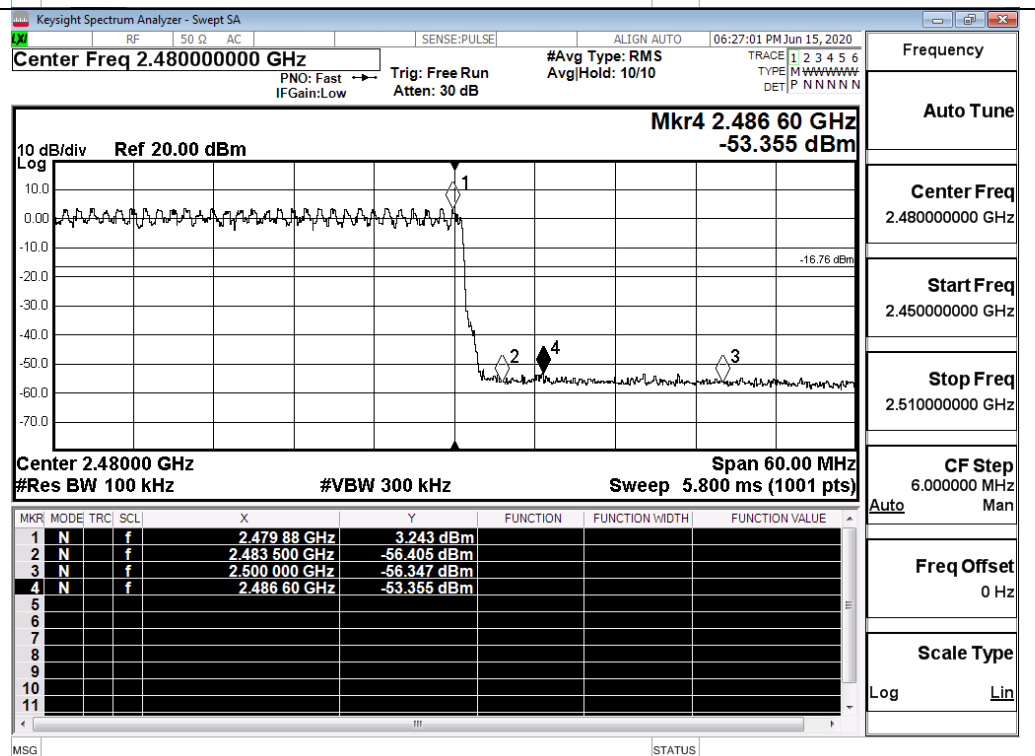
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



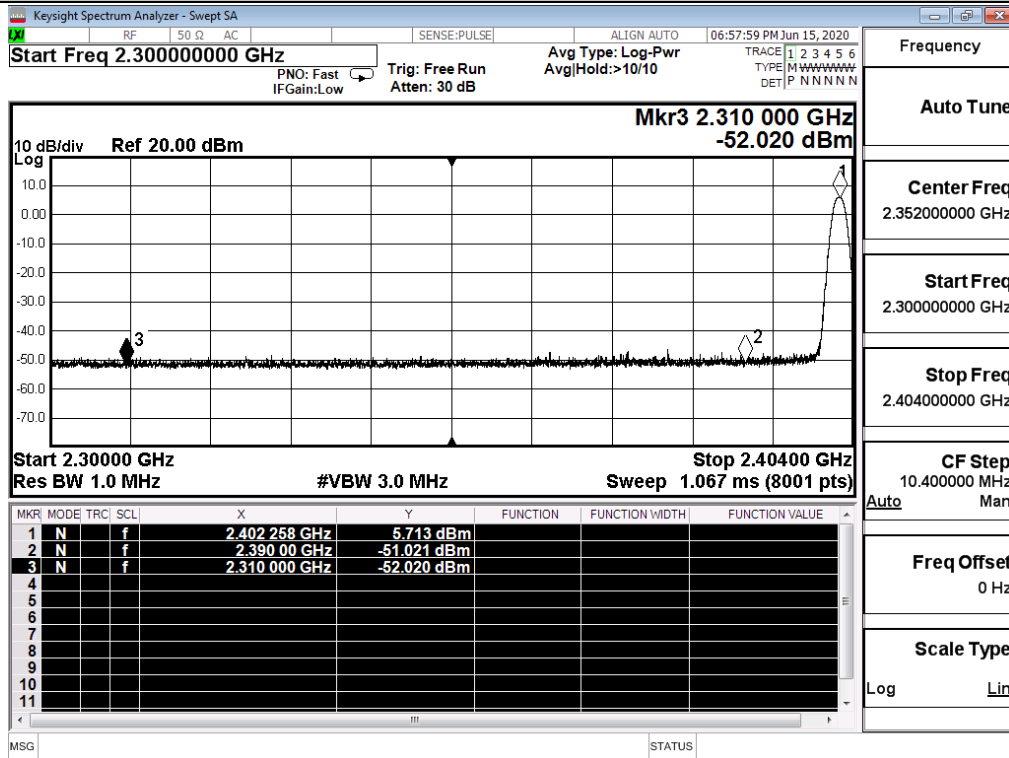
8DPSK/HCH/Hop



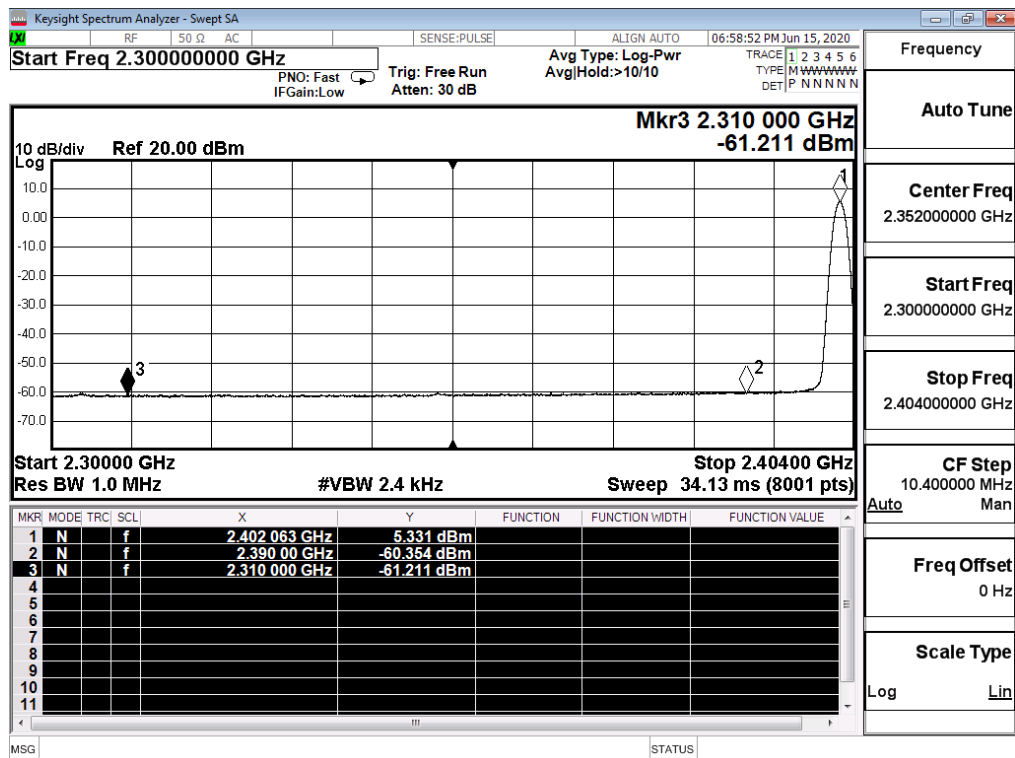
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-51.021	2.50	0	46.74	PEAK	74	PASS
	Off	2310.0	-61.211	2.50	0	36.55	AV	54	PASS
	Off	2390.0	-52.020	2.50	0	45.74	PEAK	74	PASS
	Off	2390.0	-60.354	2.50	0	37.41	AV	54	PASS
	Off	2483.5	-49.504	2.50	0	48.26	PEAK	74	PASS
	Off	2483.5	-58.416	2.50	0	39.34	AV	54	PASS
	Off	2500.0	-50.238	2.50	0	47.52	PEAK	74	PASS
	Off	2500.0	-60.222	2.50	0	37.54	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-52.553	2.50	0	45.21	PEAK	74	PASS
	Off	2310.0	-60.730	2.50	0	37.03	AV	54	PASS
	Off	2390.0	-47.074	2.50	0	50.69	PEAK	74	PASS
	Off	2390.0	-57.906	2.50	0	39.85	AV	54	PASS
	Off	2483.5	-44.535	2.50	0	53.23	PEAK	74	PASS
	Off	2483.5	-54.927	2.50	0	42.83	AV	54	PASS
	Off	2500.0	-46.984	2.50	0	50.78	PEAK	74	PASS
	Off	2500.0	-56.797	2.50	0	40.96	AV	54	PASS
8DPSK	Off	2310.0	-48.375	2.50	0	49.39	PEAK	74	PASS
	Off	2310.0	-61.225	2.50	0	36.54	AV	54	PASS
	Off	2390.0	-51.218	2.50	0	46.54	PEAK	74	PASS
	Off	2390.0	-58.106	2.50	0	39.65	AV	54	PASS
	Off	2483.5	-48.375	2.50	0	49.39	PEAK	74	PASS
	Off	2483.5	-58.272	2.50	0	39.49	AV	54	PASS
	Off	2500.0	-51.218	2.50	0	46.54	PEAK	74	PASS
	Off	2500.0	-60.160	2.50	0	37.60	AV	54	PASS

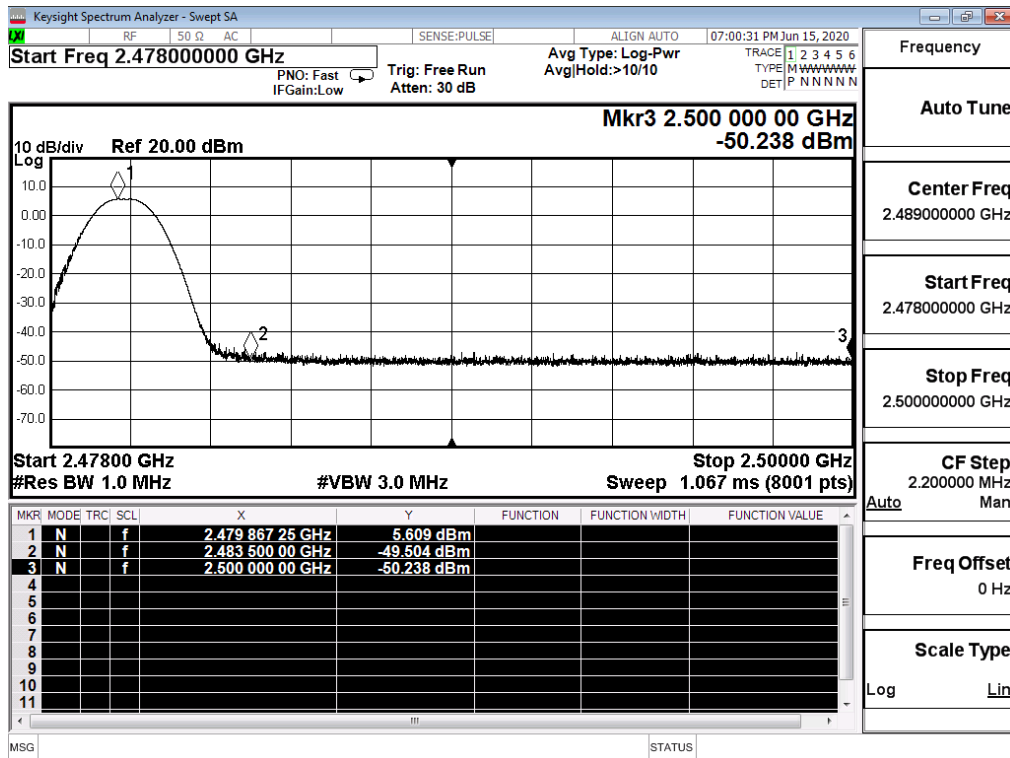
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



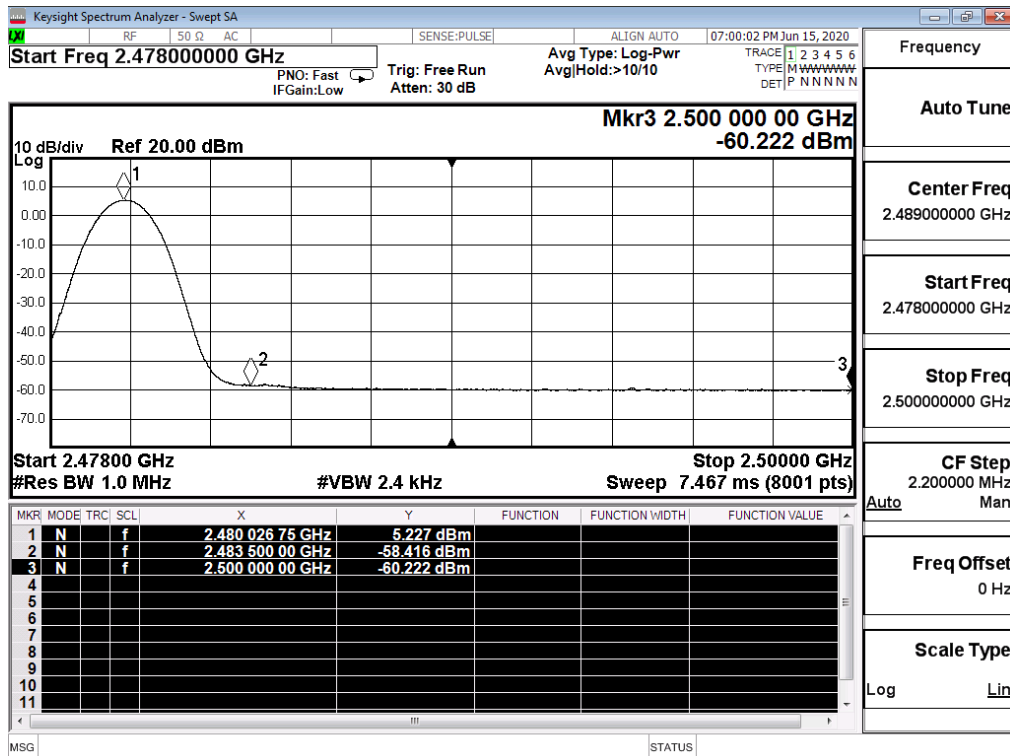
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)

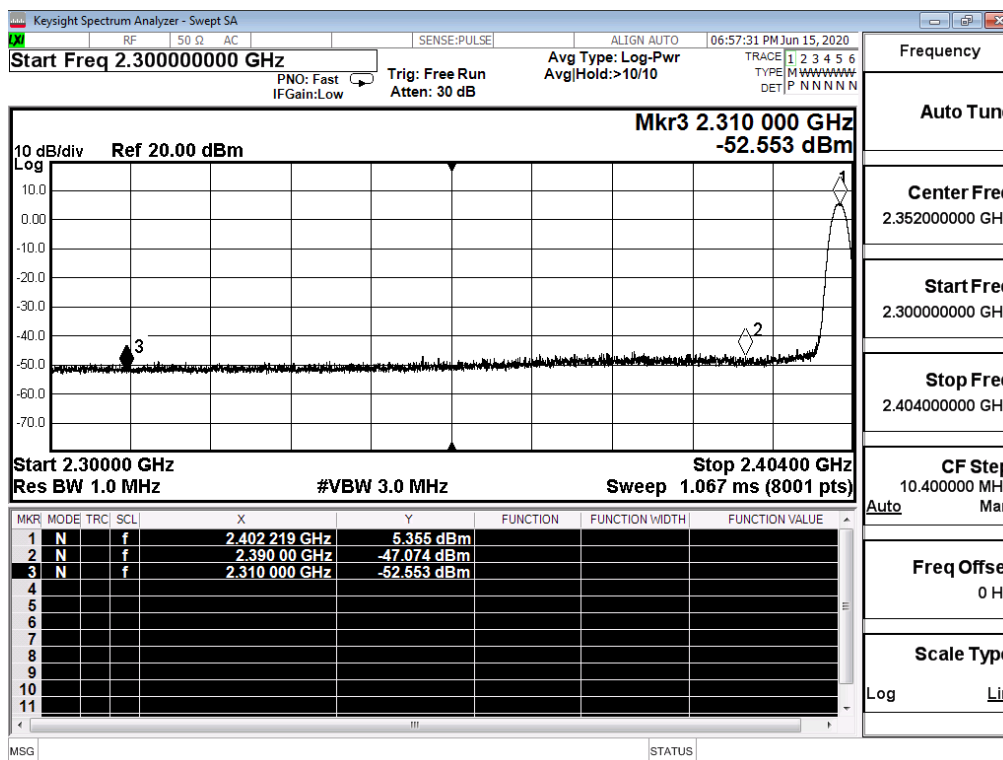
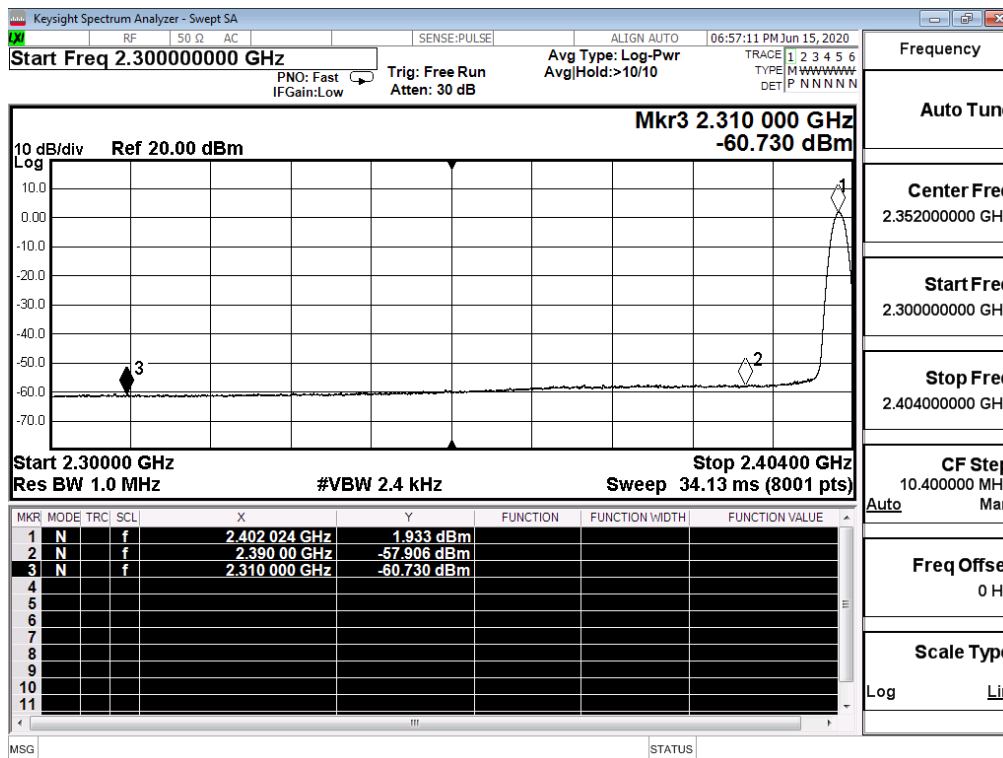


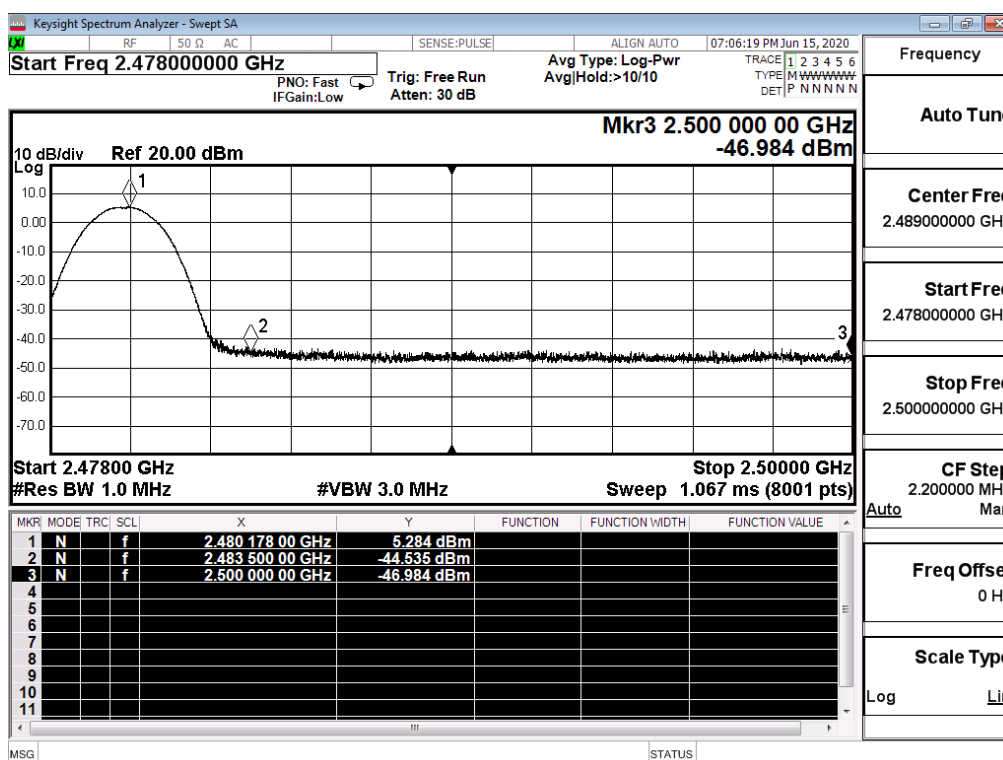
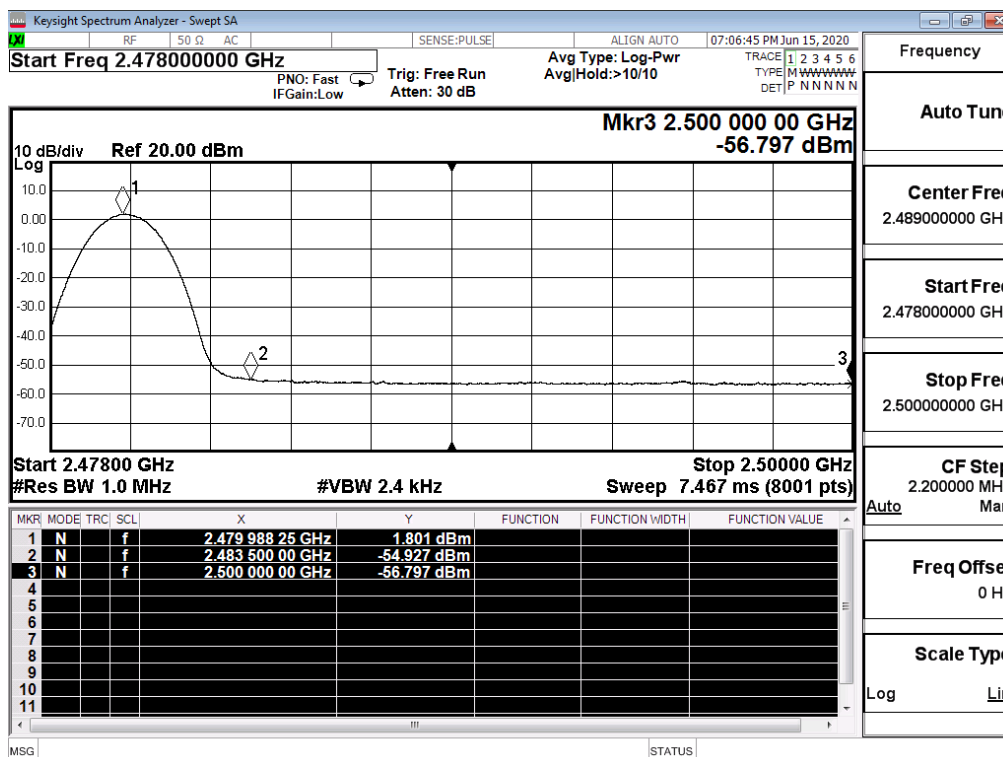
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



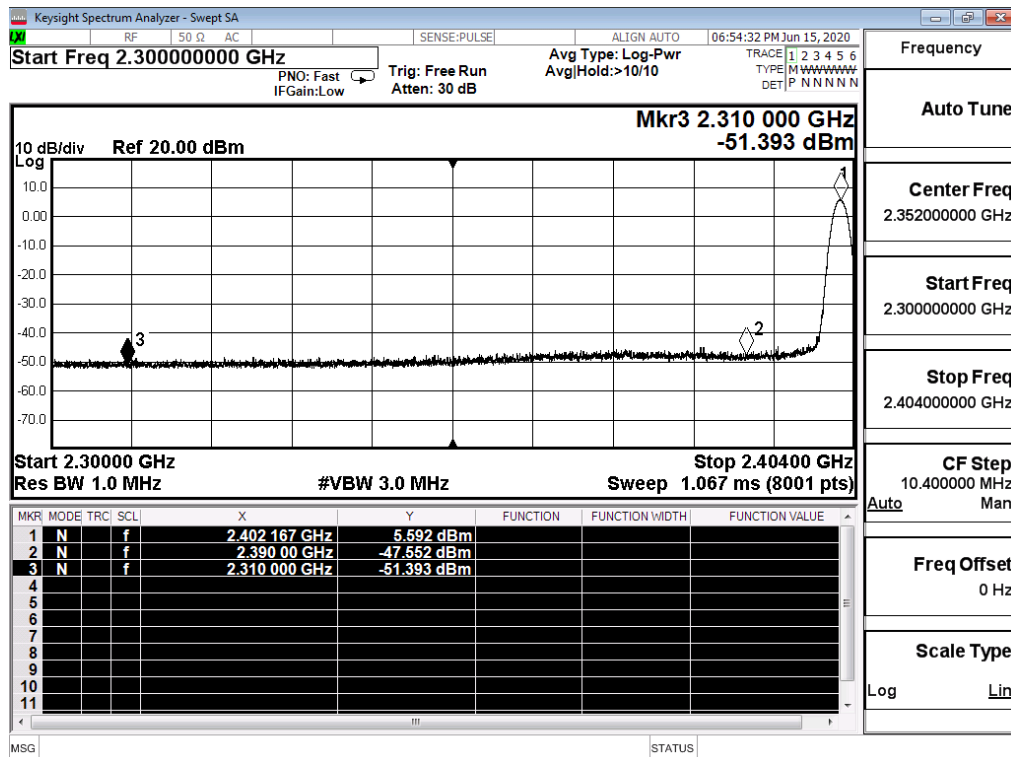
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



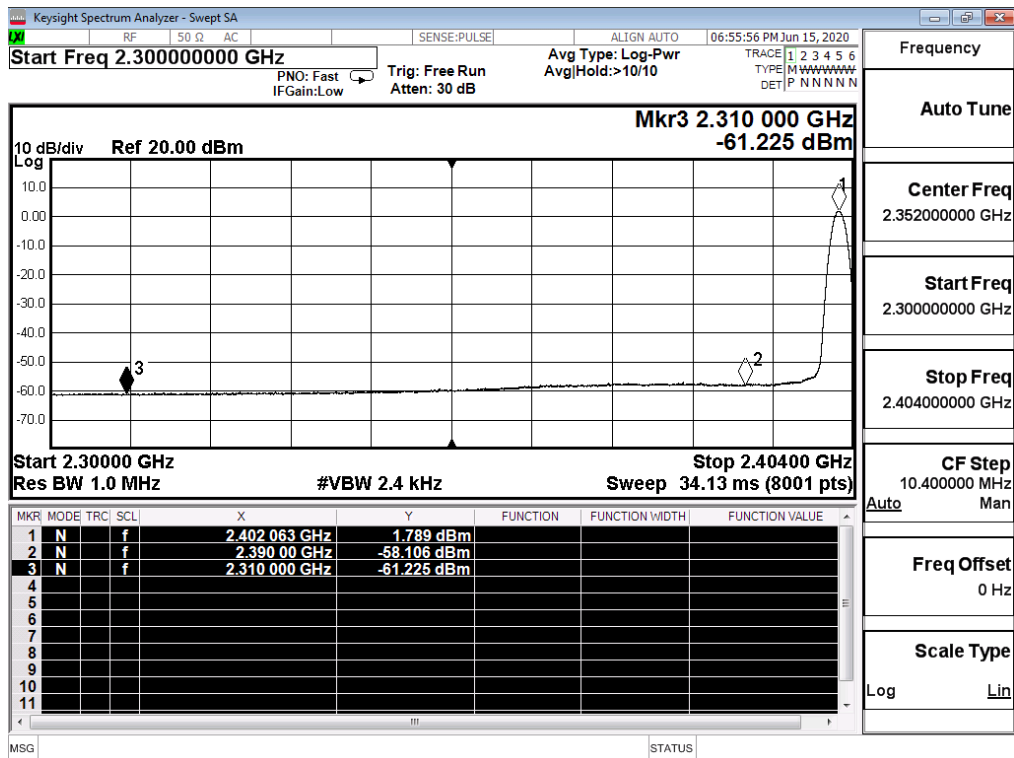
Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)

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)

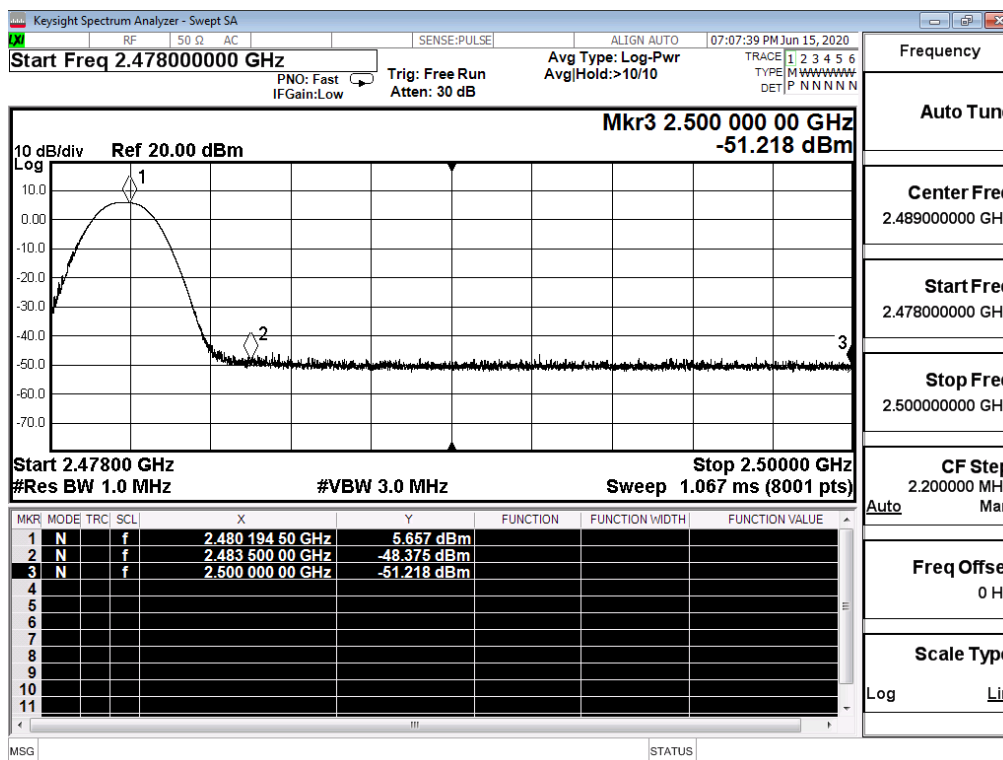
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

