

Appendix A

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

Product Name: 43 inch IR Android Touch Tablet



Trade Mark:

Test Model: YT43I

Environmental Conditions

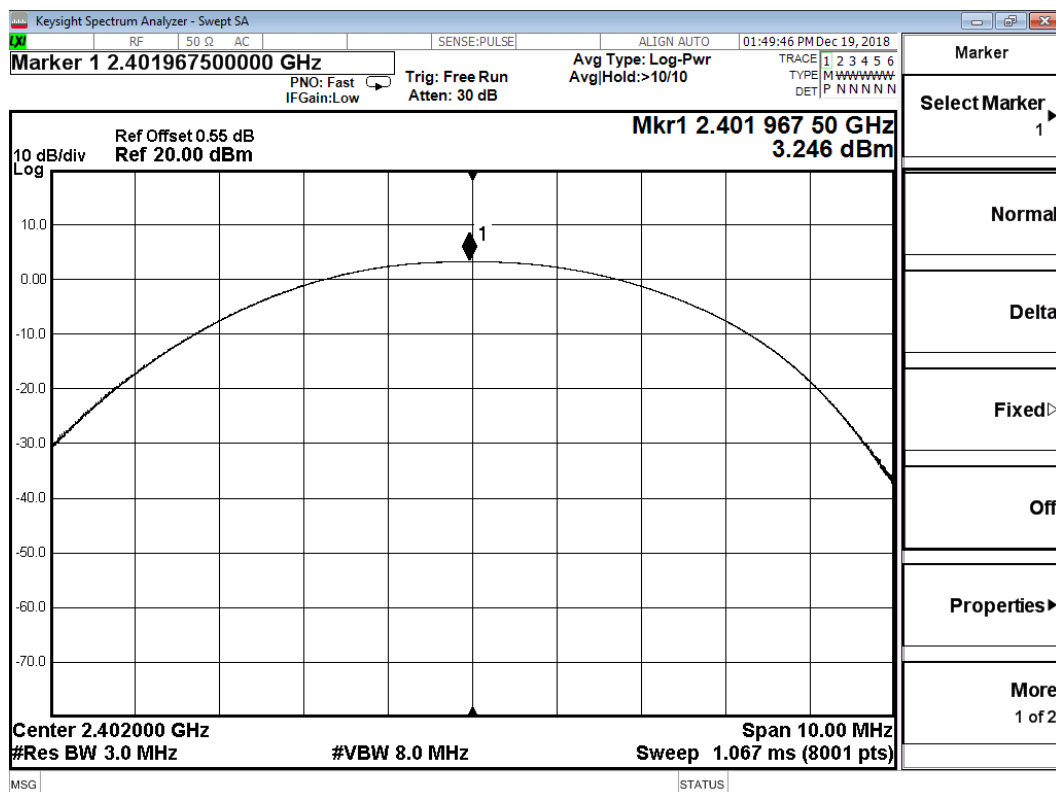
Temperature:	23.5 ° C
Relative Humidity:	66%
ATM Pressure:	100.0 kPa
Test Engineer:	AKING JIN
Supervised by:	JAYDEN ZHUO

A.1 Maximum Conducted Peak Output Power

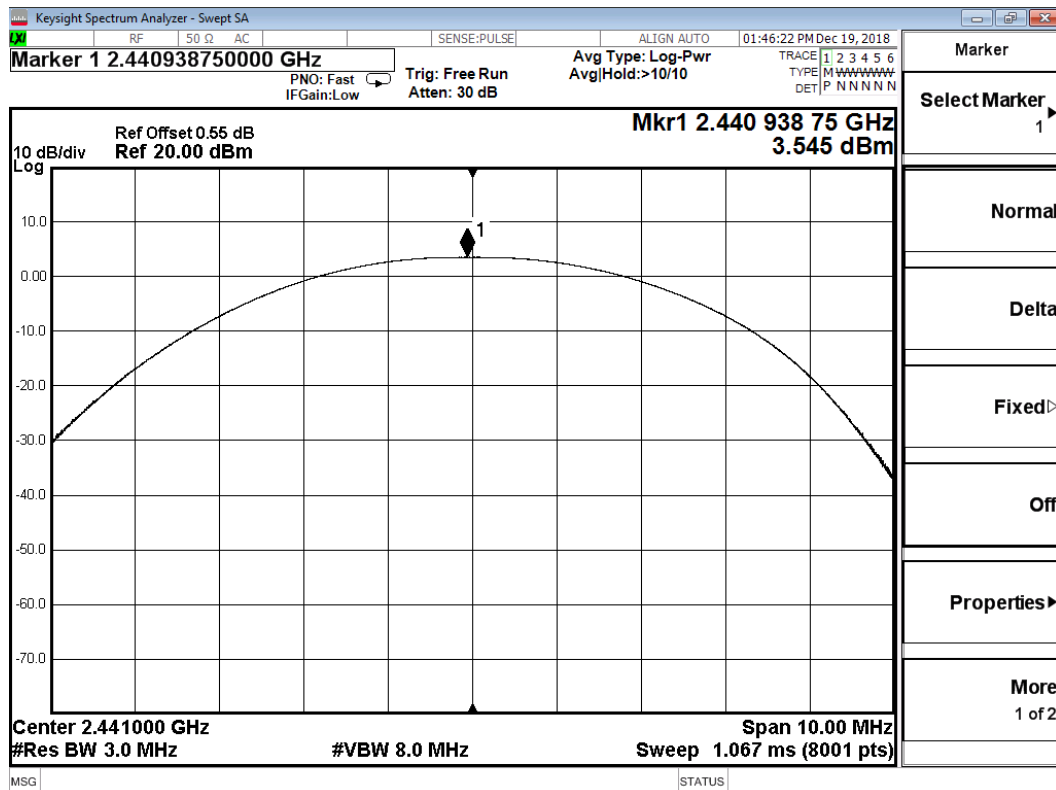
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	3.246	21	PASS
	MCH	3.545	21	PASS
	HCH	3.754	21	PASS
$\pi/4$ DQPSK	LCH	2.275	21	PASS
	MCH	2.681	21	PASS
	HCH	2.861	21	PASS
8DPSK	LCH	2.519	21	PASS
	MCH	2.913	21	PASS
	HCH	3.155	21	PASS

Test Graphs

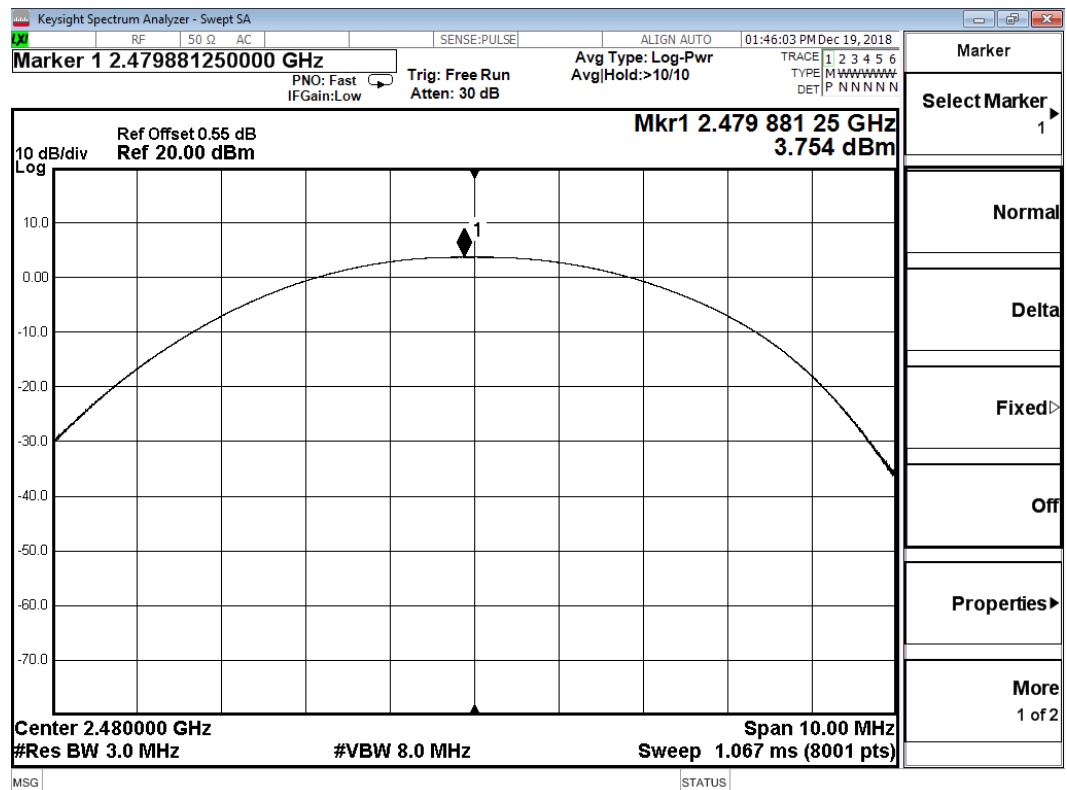
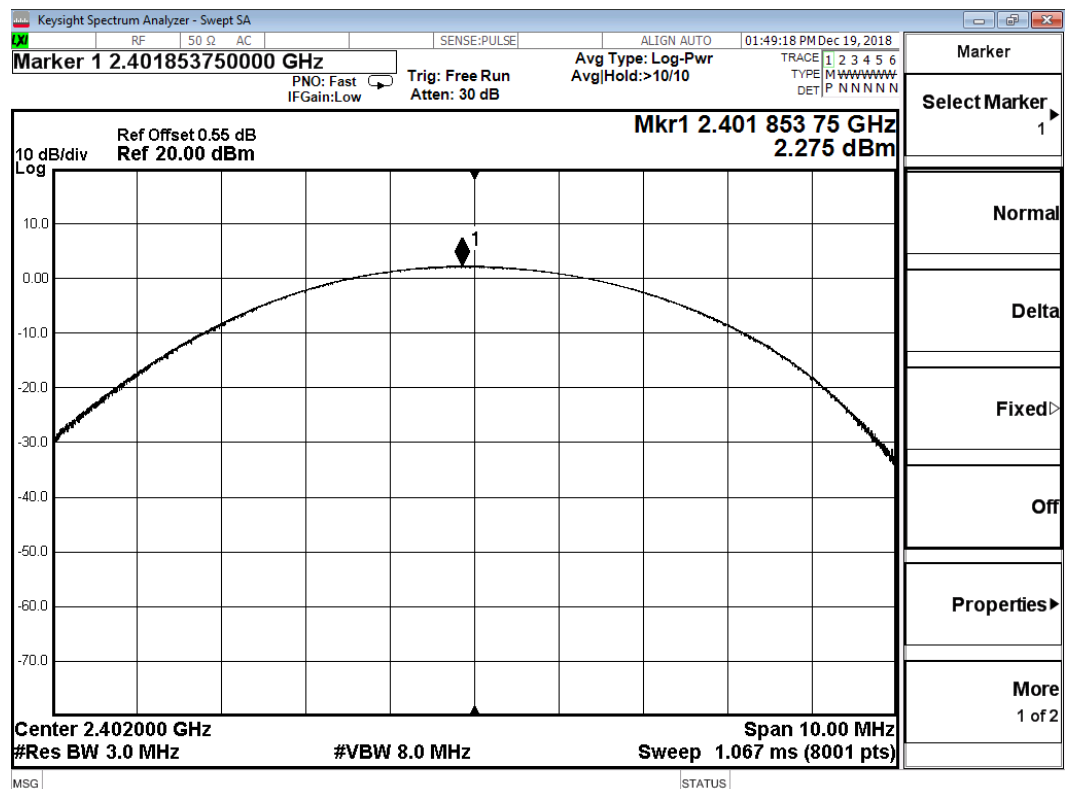
GFSK/LCH

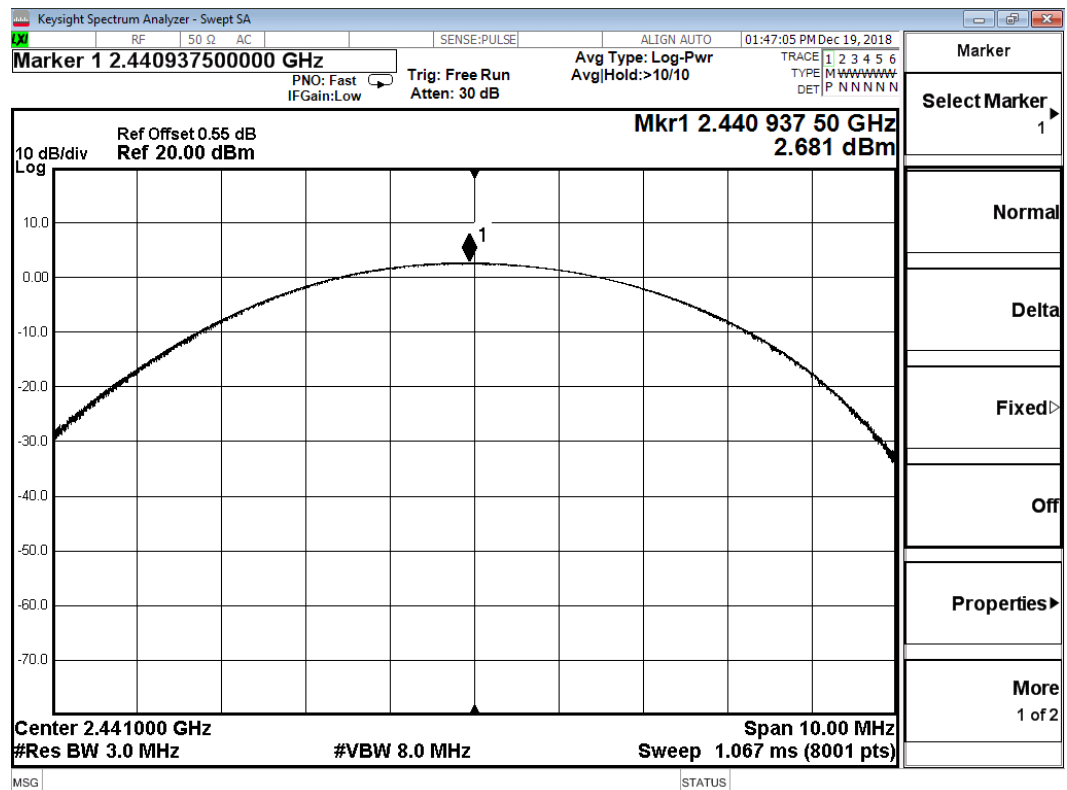
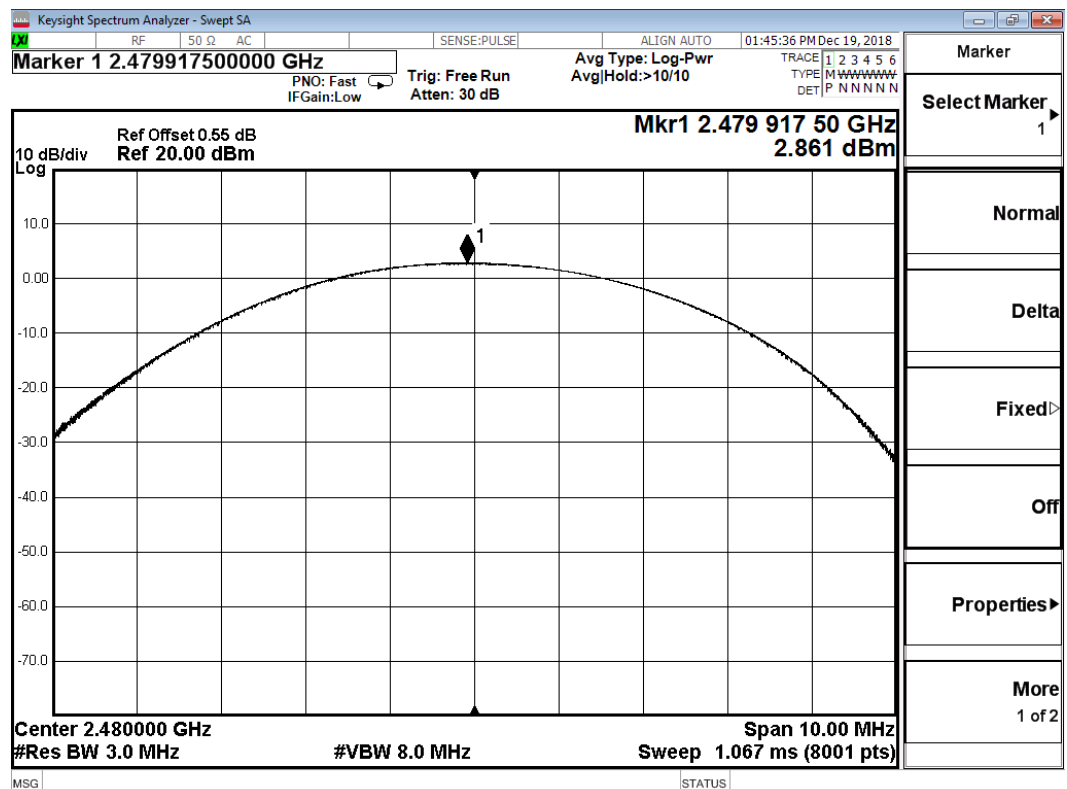


GFSK/MCH

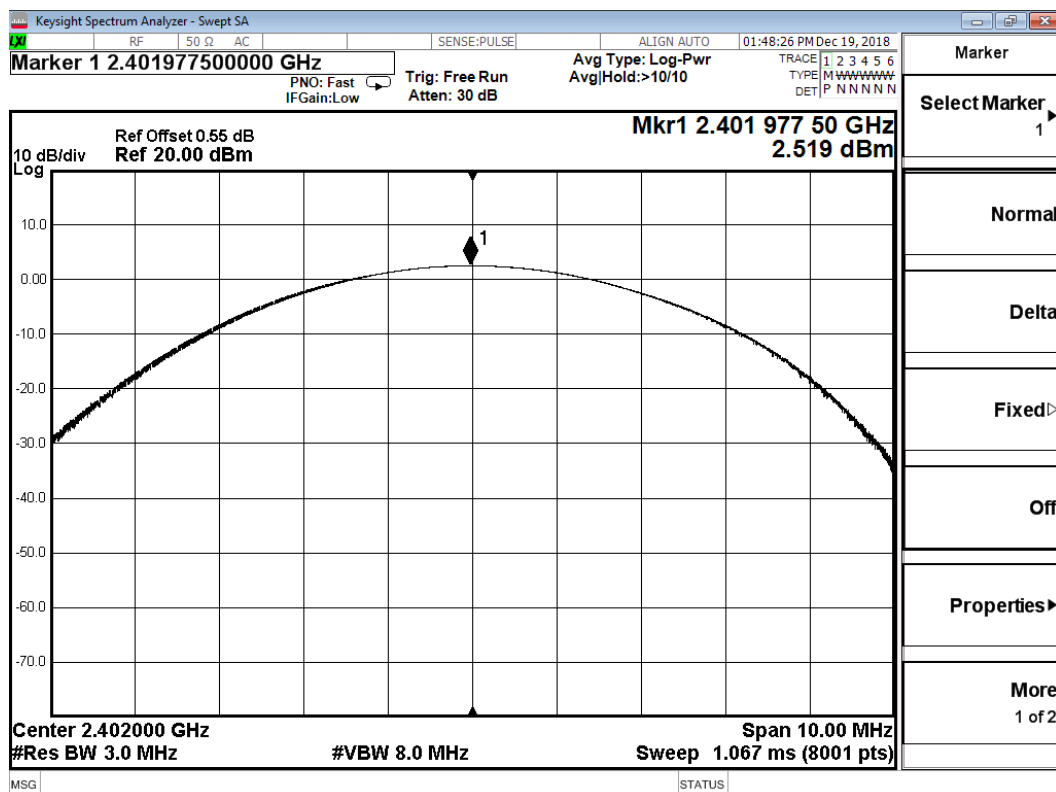


GFSK/HCH

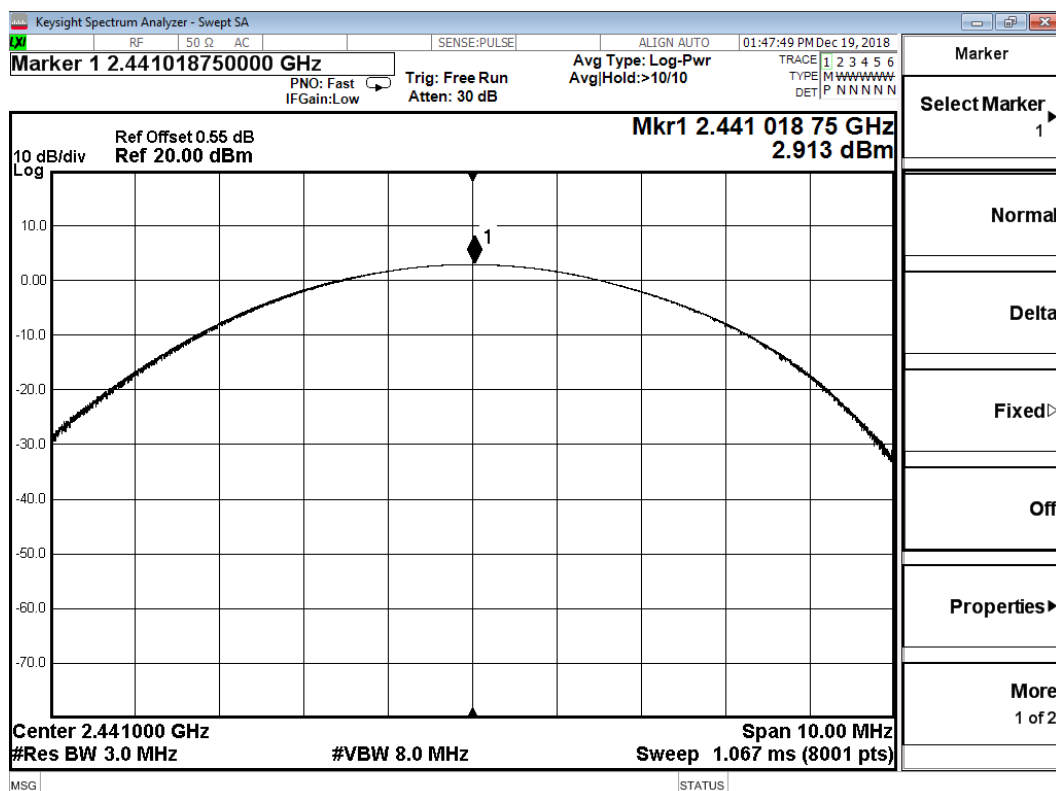
 $\pi/4$ DQPSK/LCH

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

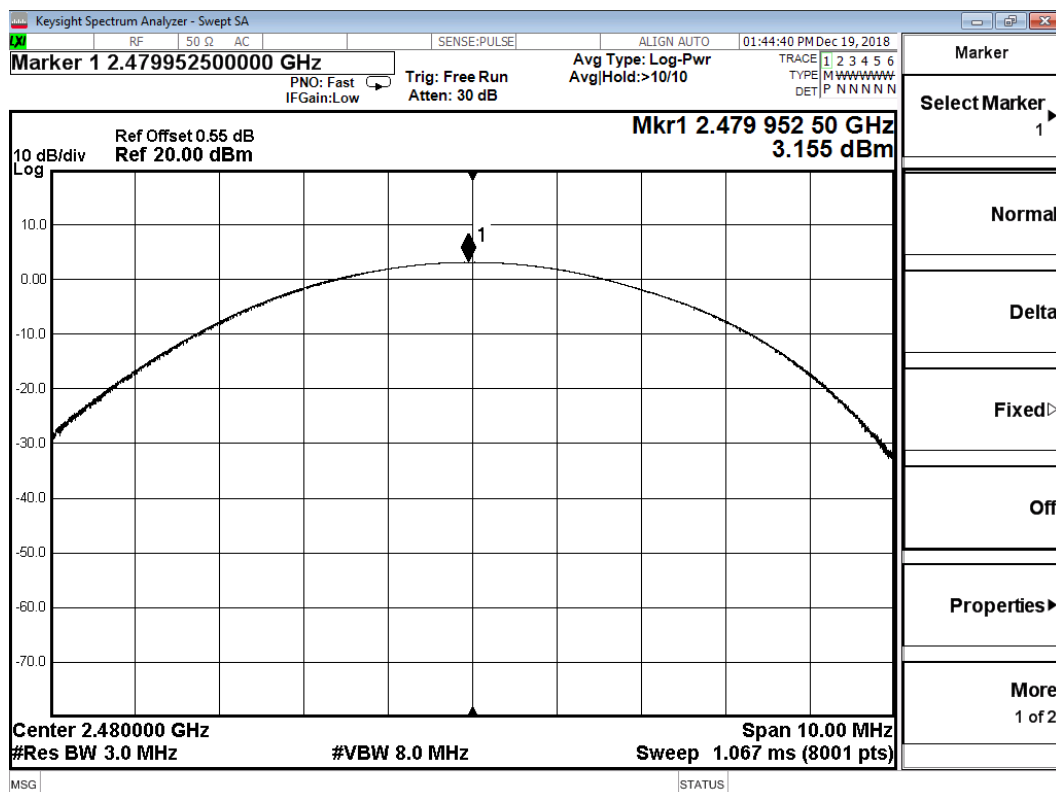
8DPSK/LCH



8DPSK/MCH

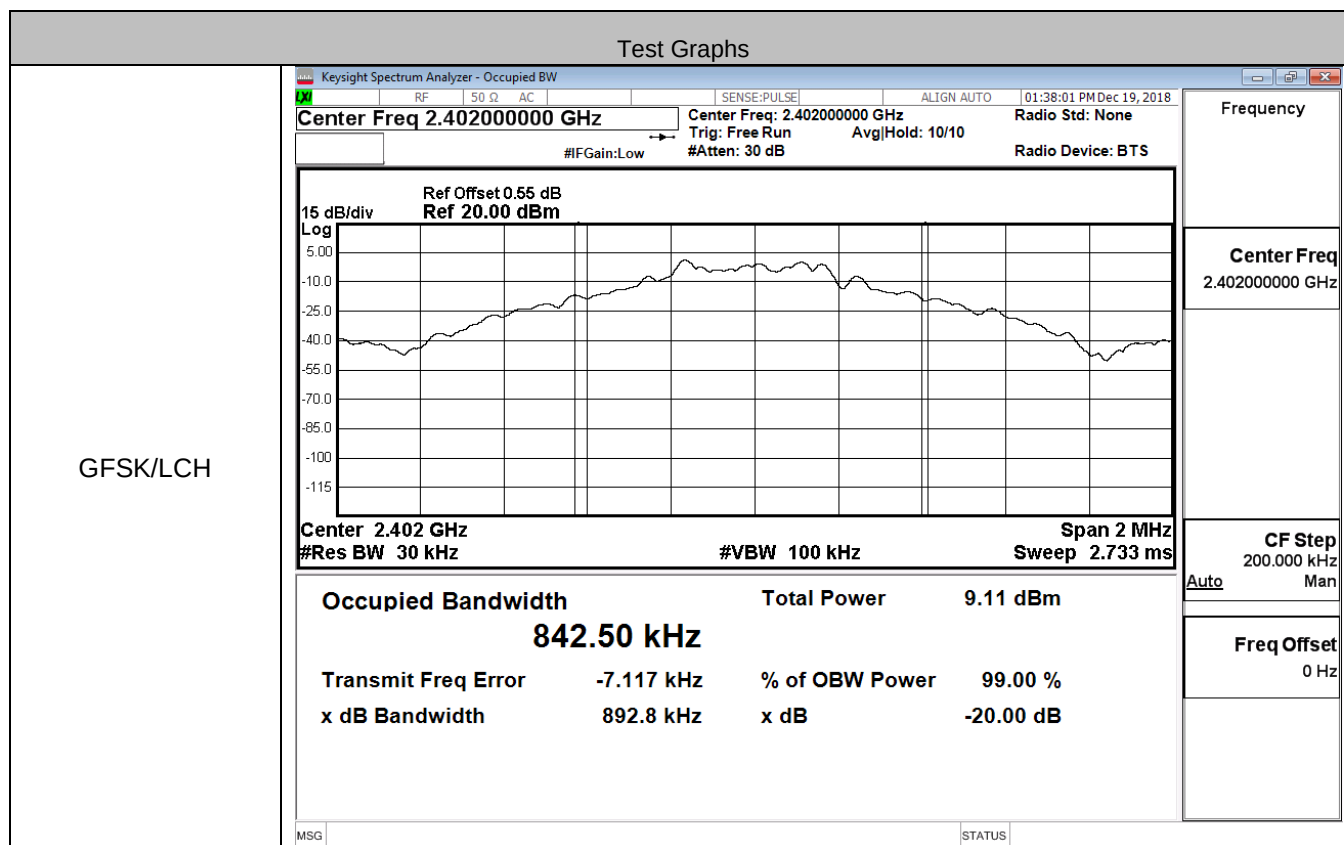


8DPSK/HCH

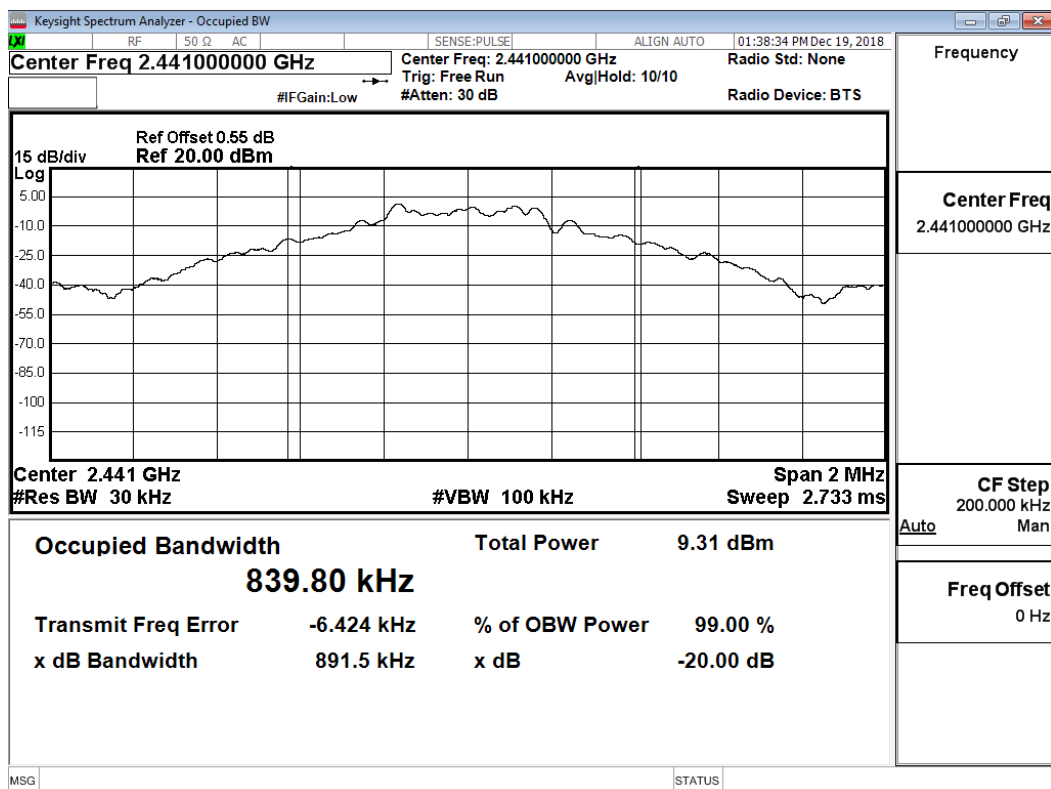


A.2 99% and 20dB Bandwidth

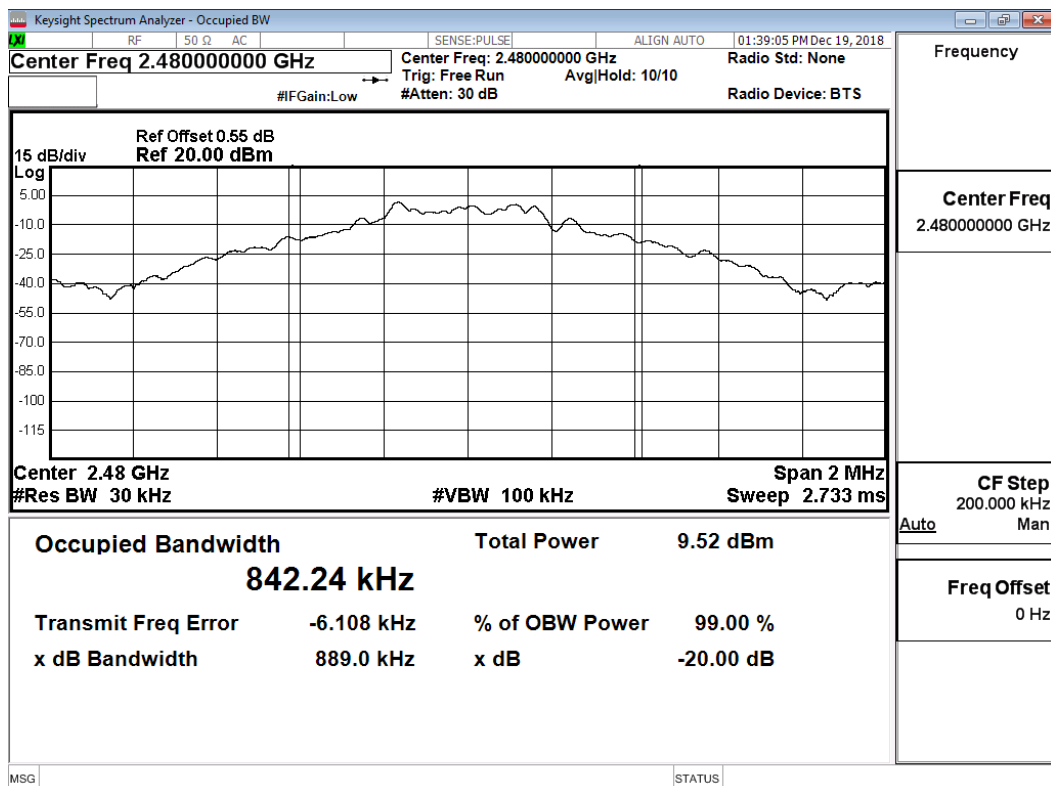
Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.84250	0.843	Not Specified	PASS
	MCH	0.83980	0.840	Not Specified	PASS
	HCH	0.84224	0.842	Not Specified	PASS
π /4DQPSK	LCH	1.1706	1.171	Not Specified	PASS
	MCH	1.1774	1.177	Not Specified	PASS
	HCH	1.1768	1.177	Not Specified	PASS
8DPSK	LCH	1.1283	1.128	Not Specified	PASS
	MCH	1.1301	1.130	Not Specified	PASS
	HCH	1.1294	1.129	Not Specified	PASS

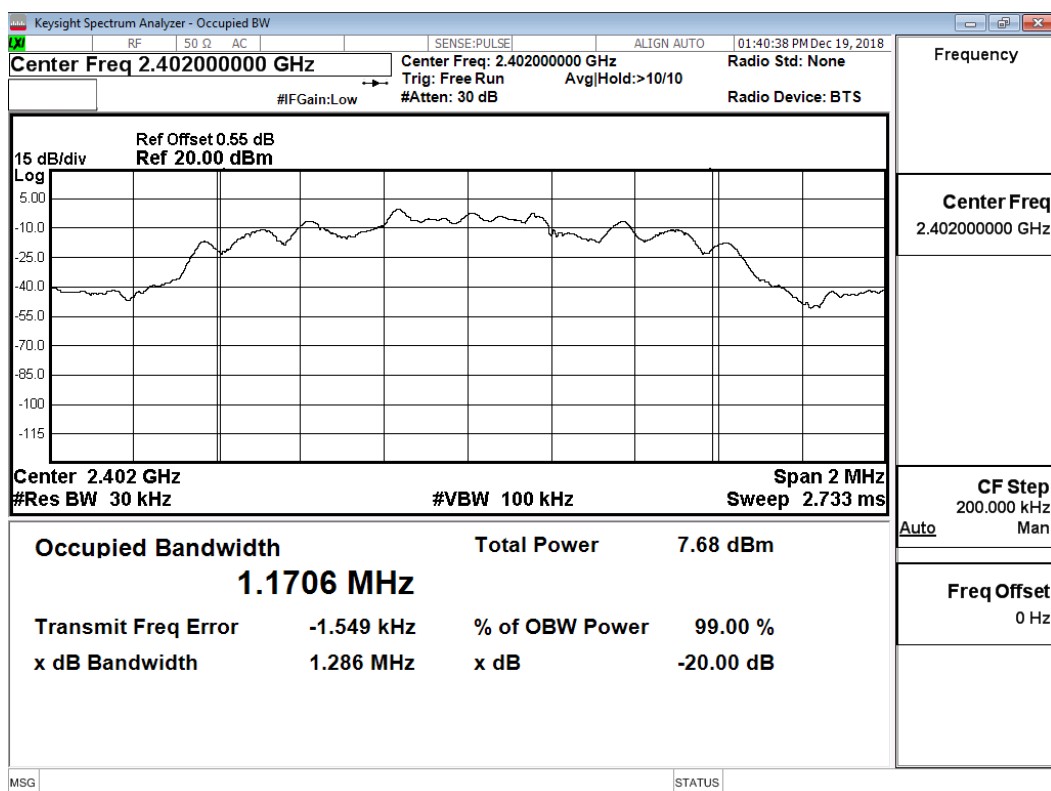
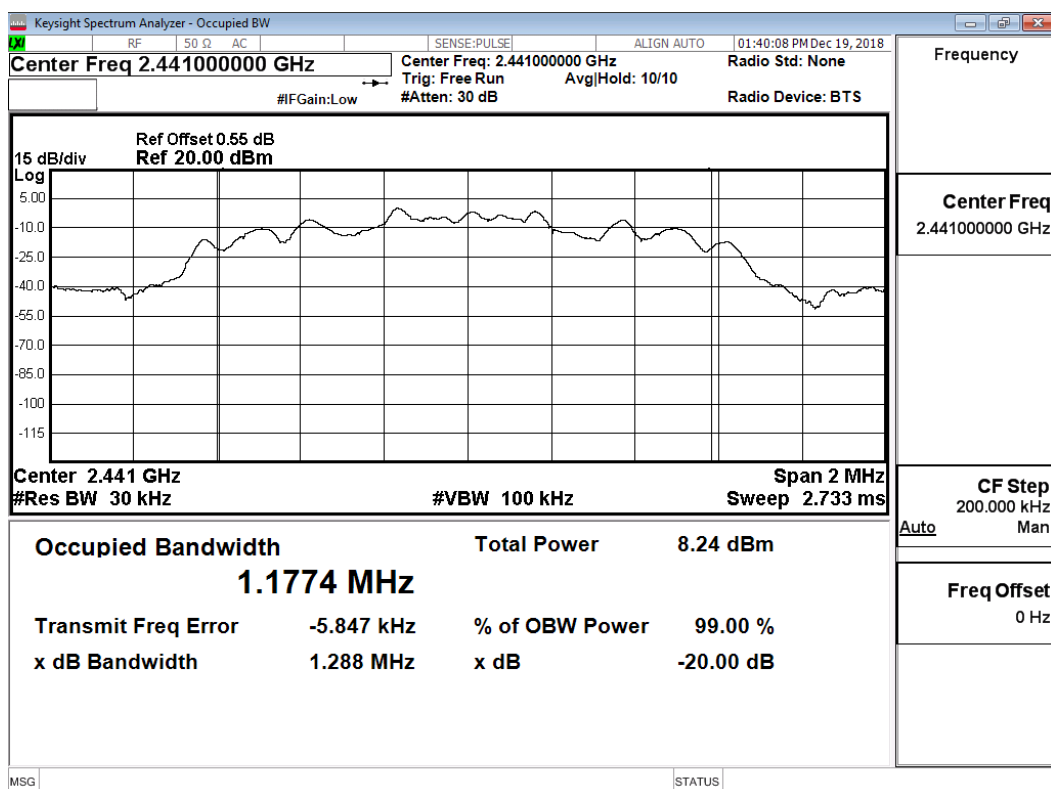


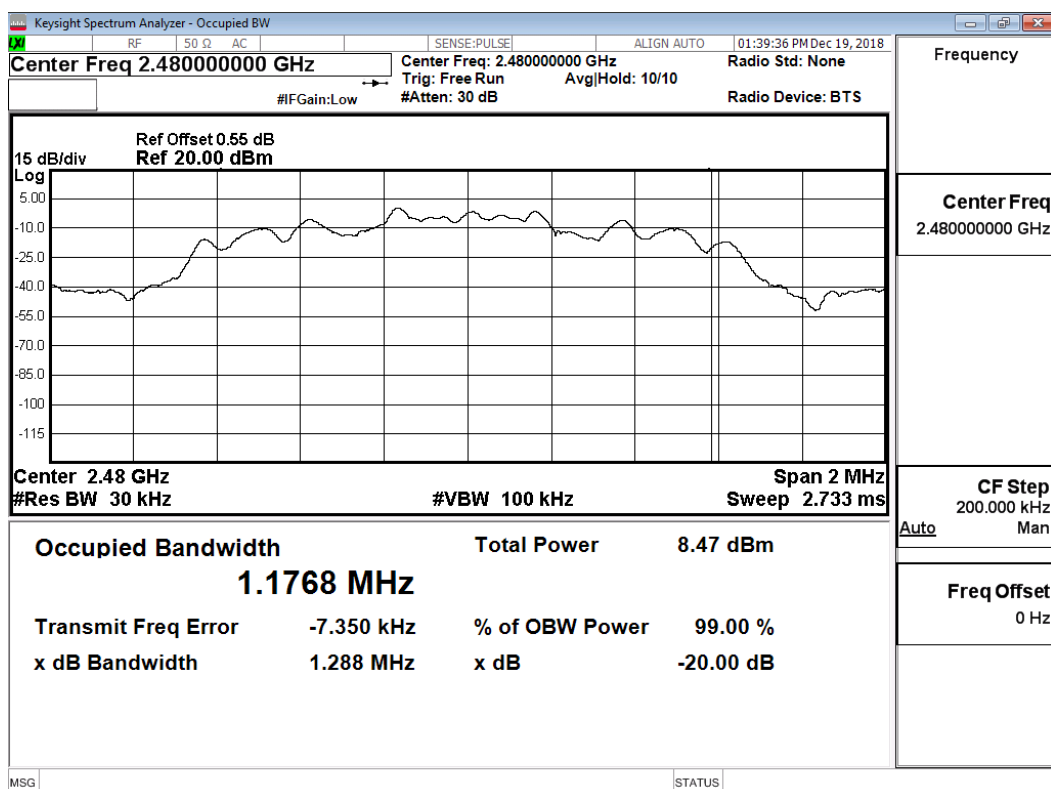
GFSK/MCH



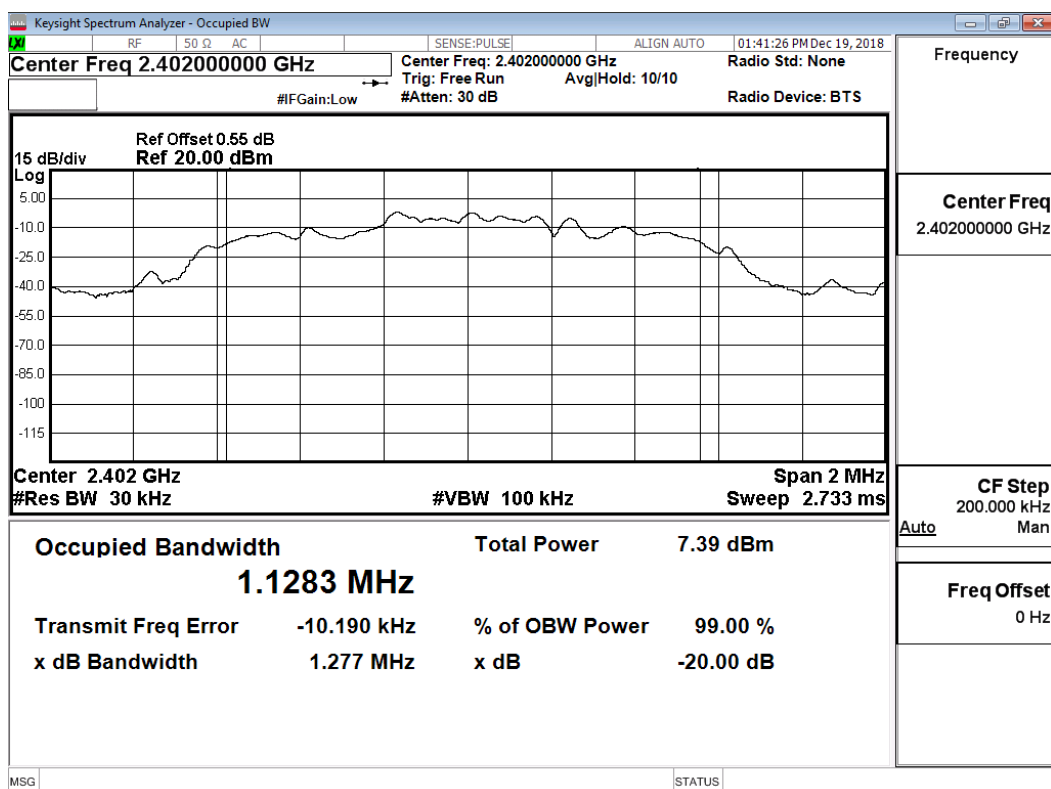
GFSK/HCH



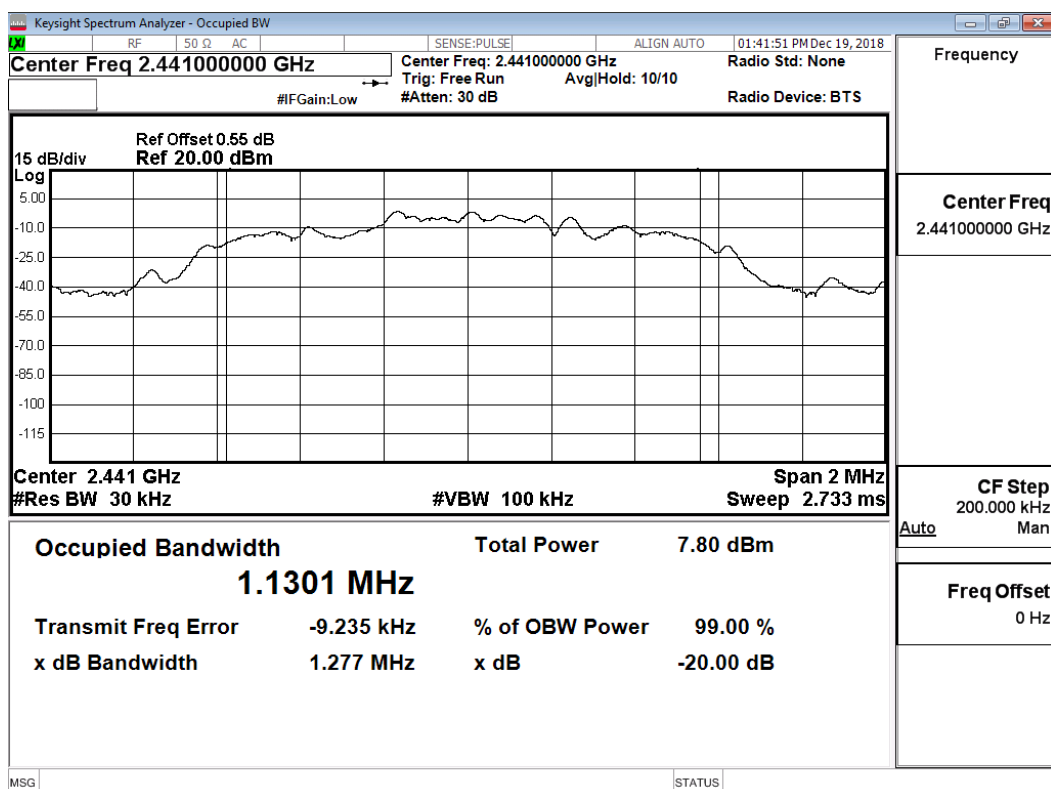
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

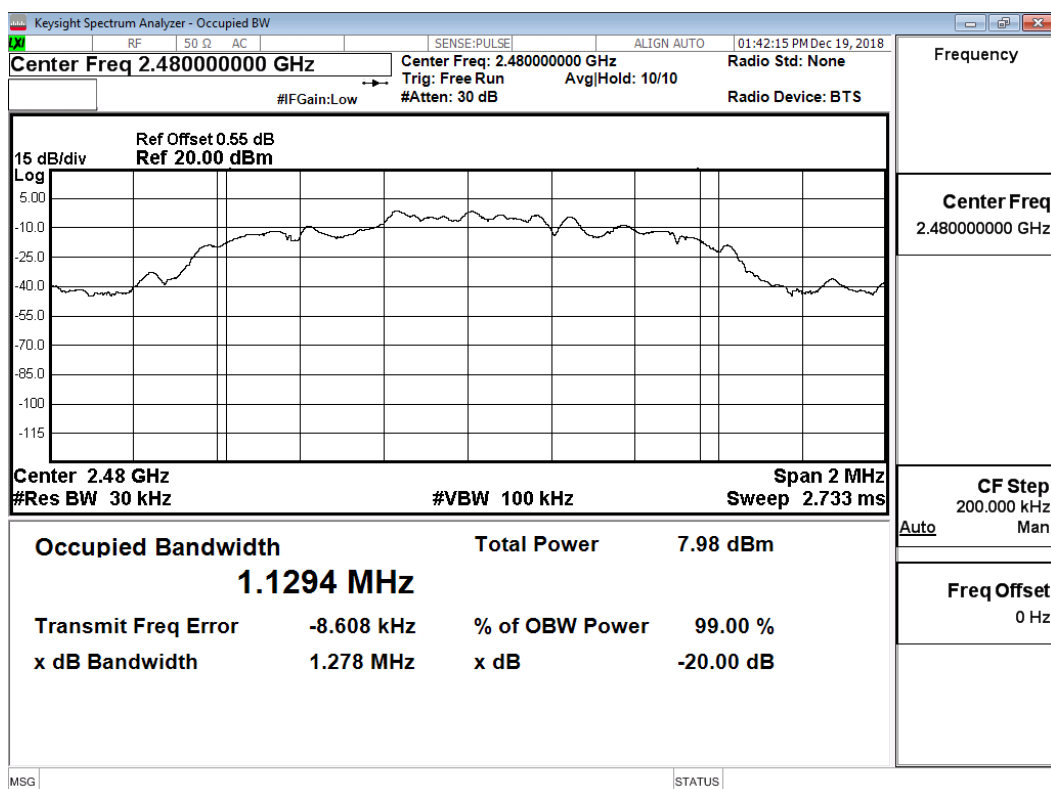
8DPSK/LCH



8DPSK/MCH



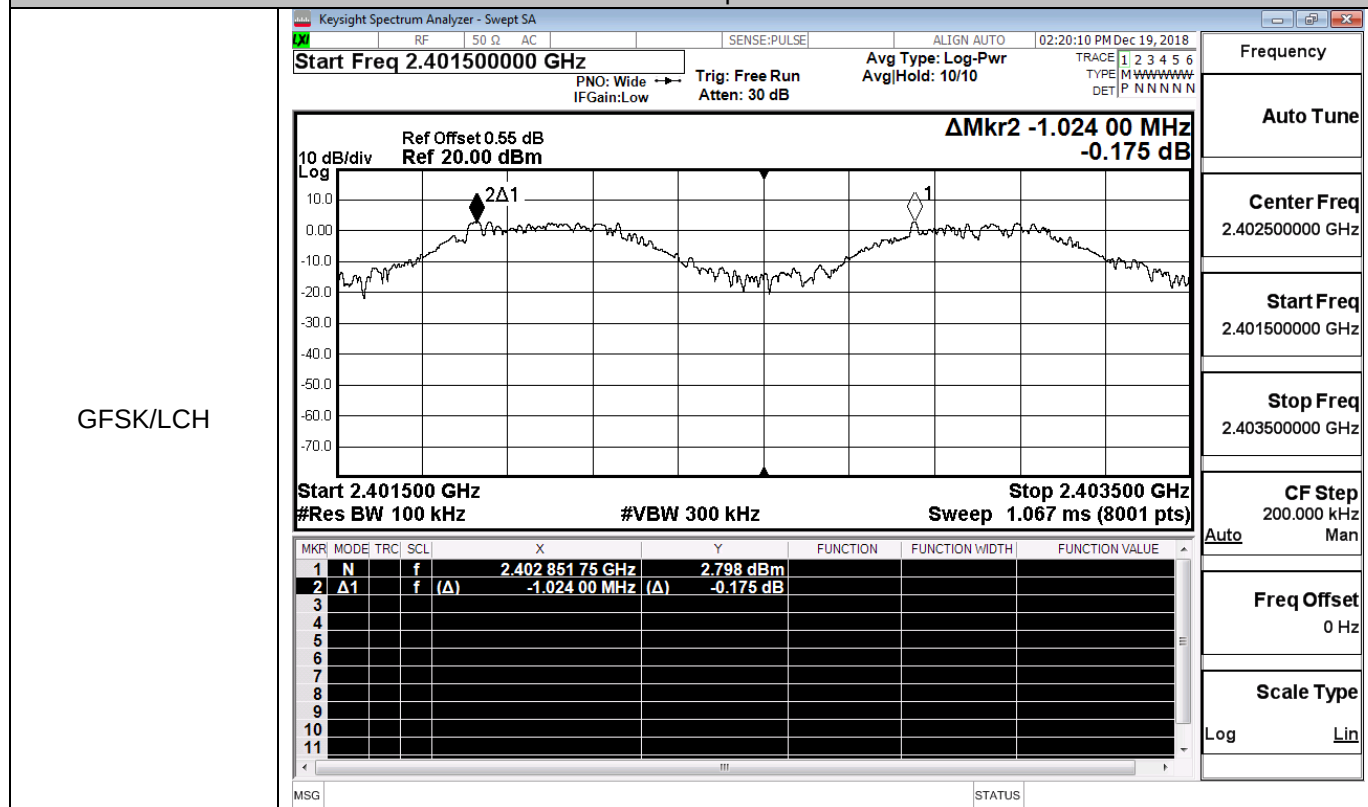
8DPSK/HCH



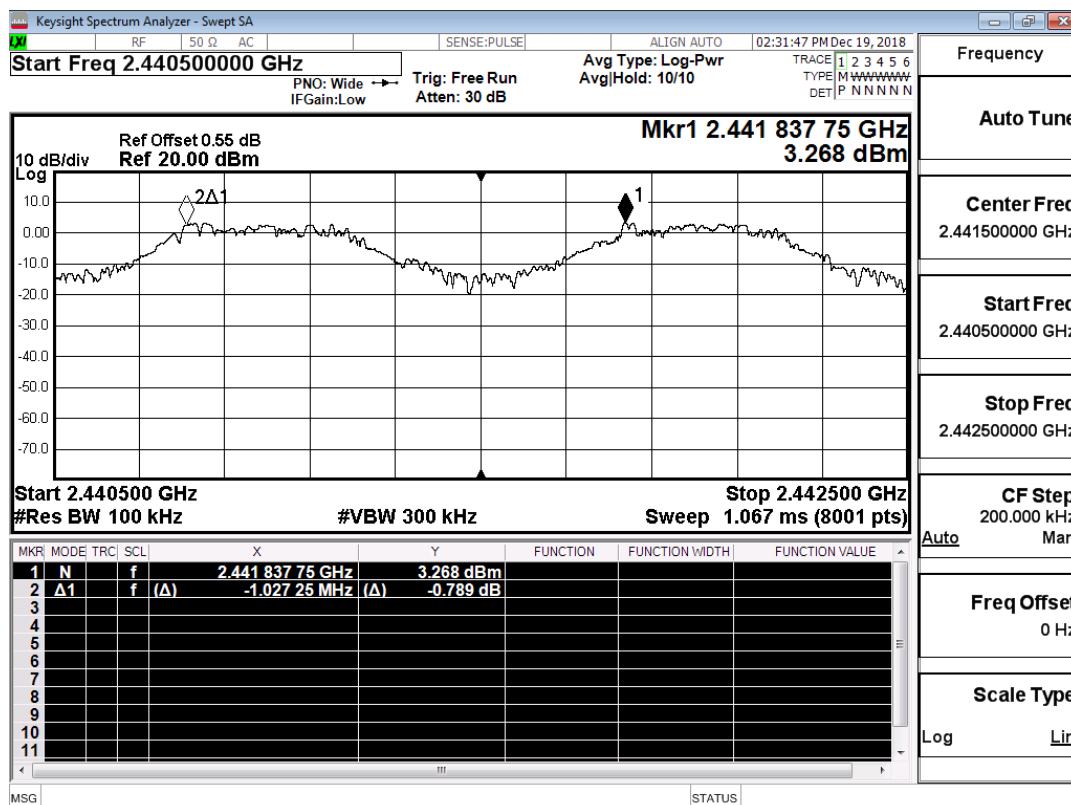
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz] 20dB Bandwidth	Verdict
GFSK	LCH	1.024	0.843	PASS
	MCH	1.027	0.840	PASS
	HCH	1.012	0.842	PASS
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz] 2/3*20dB Bandwidth	Verdict
$\pi/4$ DQPSK	LCH	1.000	0.781	PASS
	MCH	1.002	0.785	PASS
	HCH	1.004	0.785	PASS
8DPSK	LCH	1.021	0.752	PASS
	MCH	1.018	0.753	PASS
	HCH	1.003	0.753	PASS

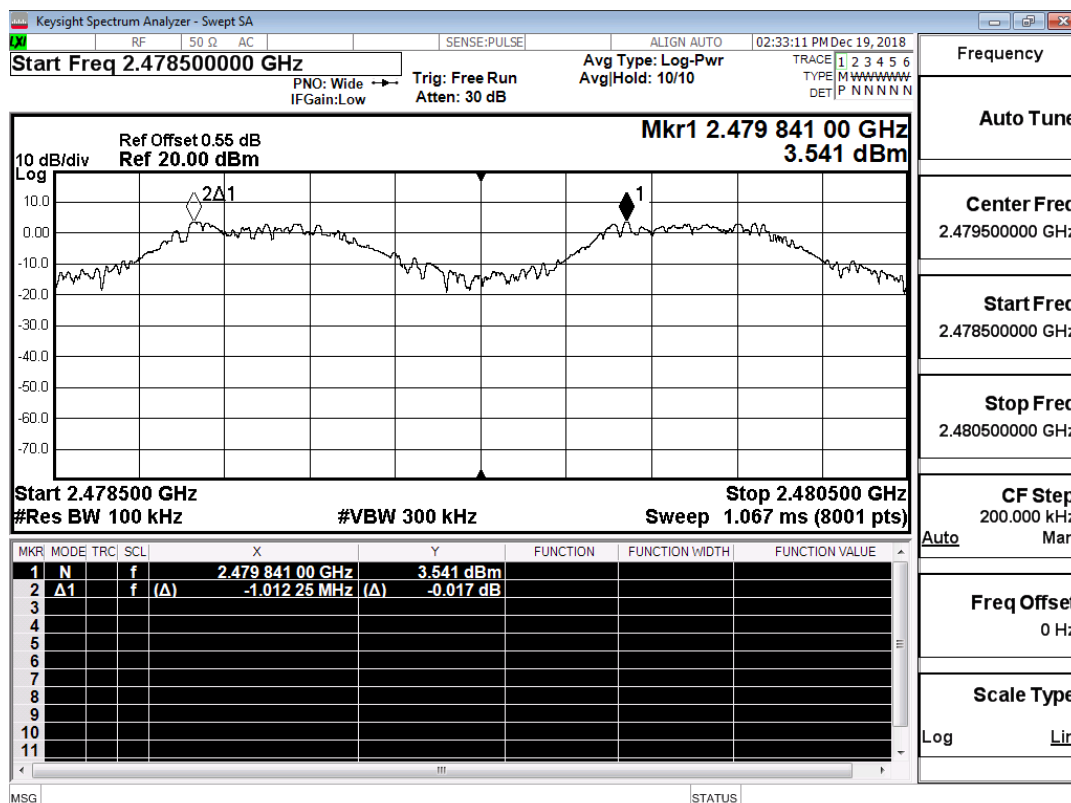
Test Graphs

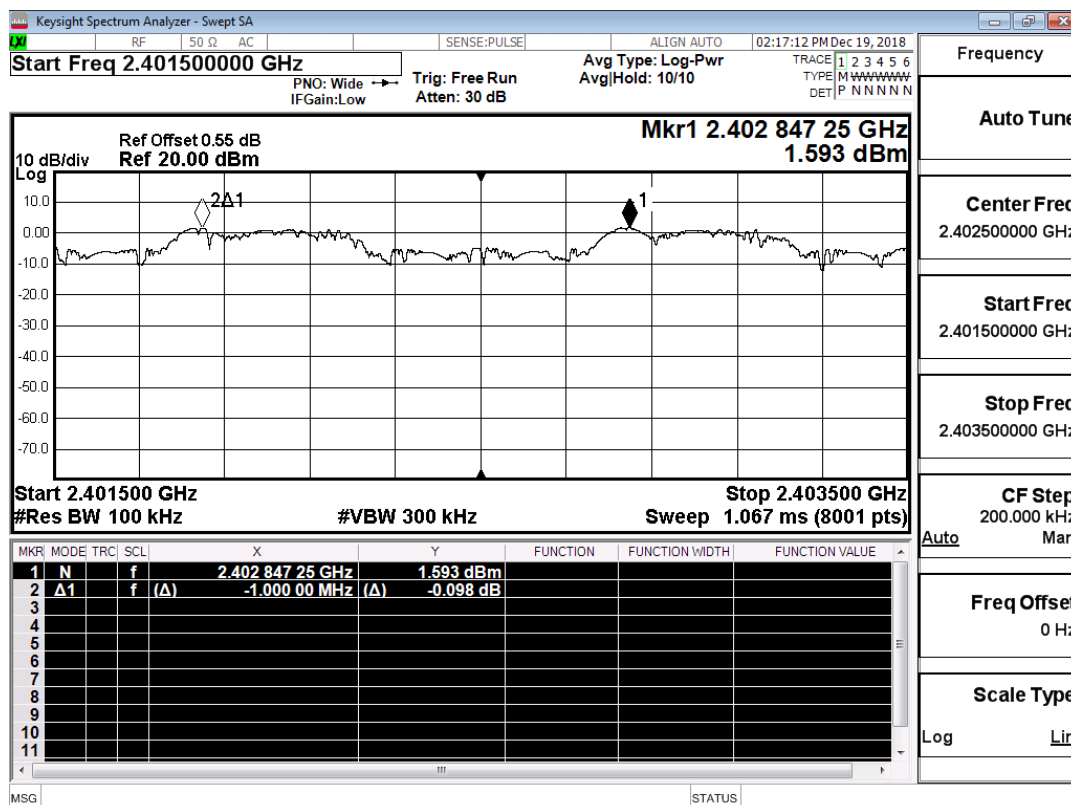
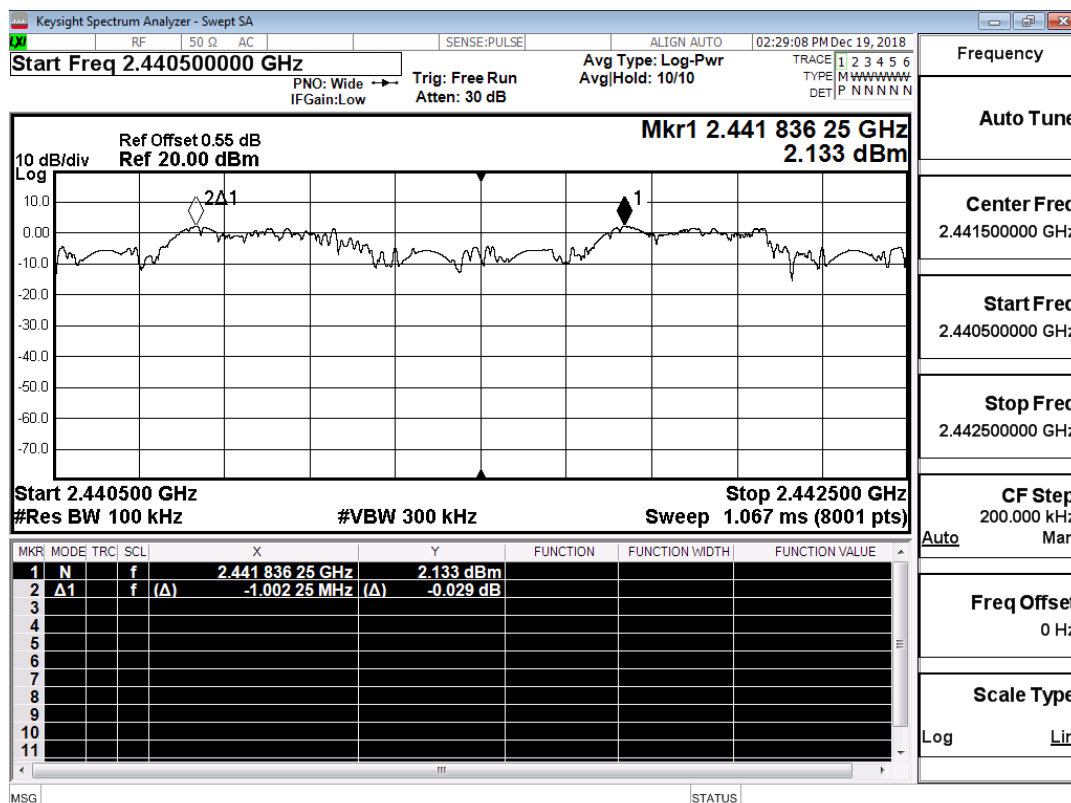


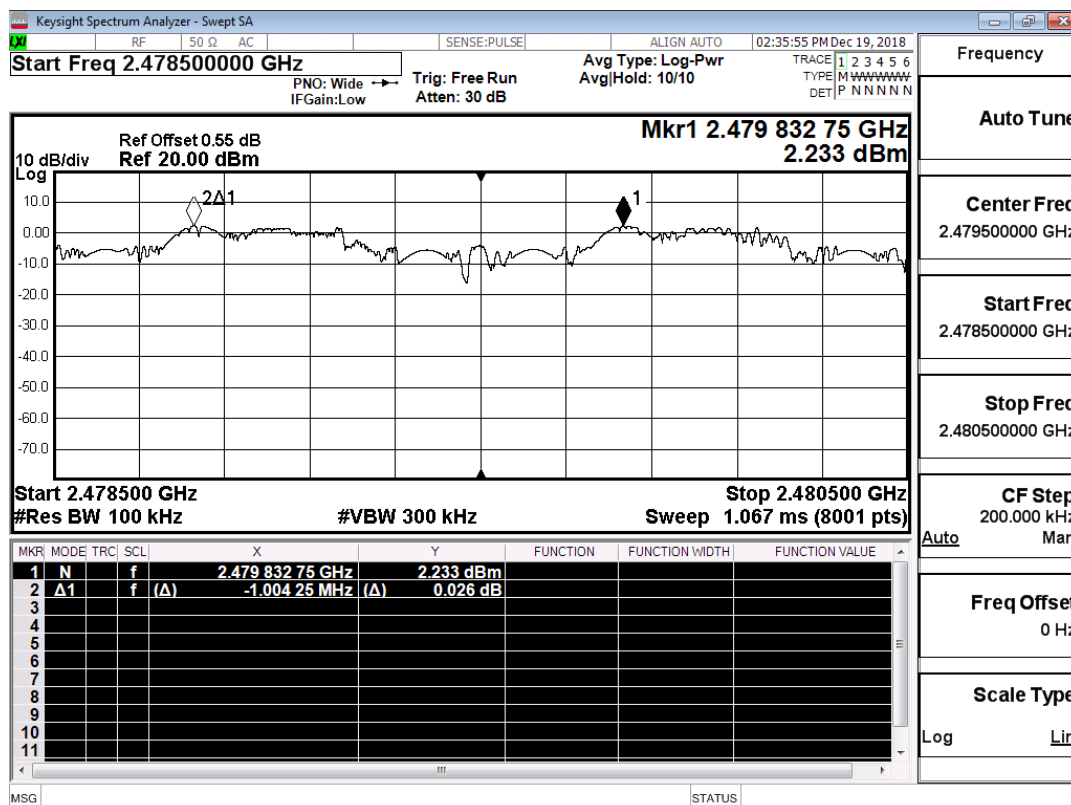
GFSK/MCH



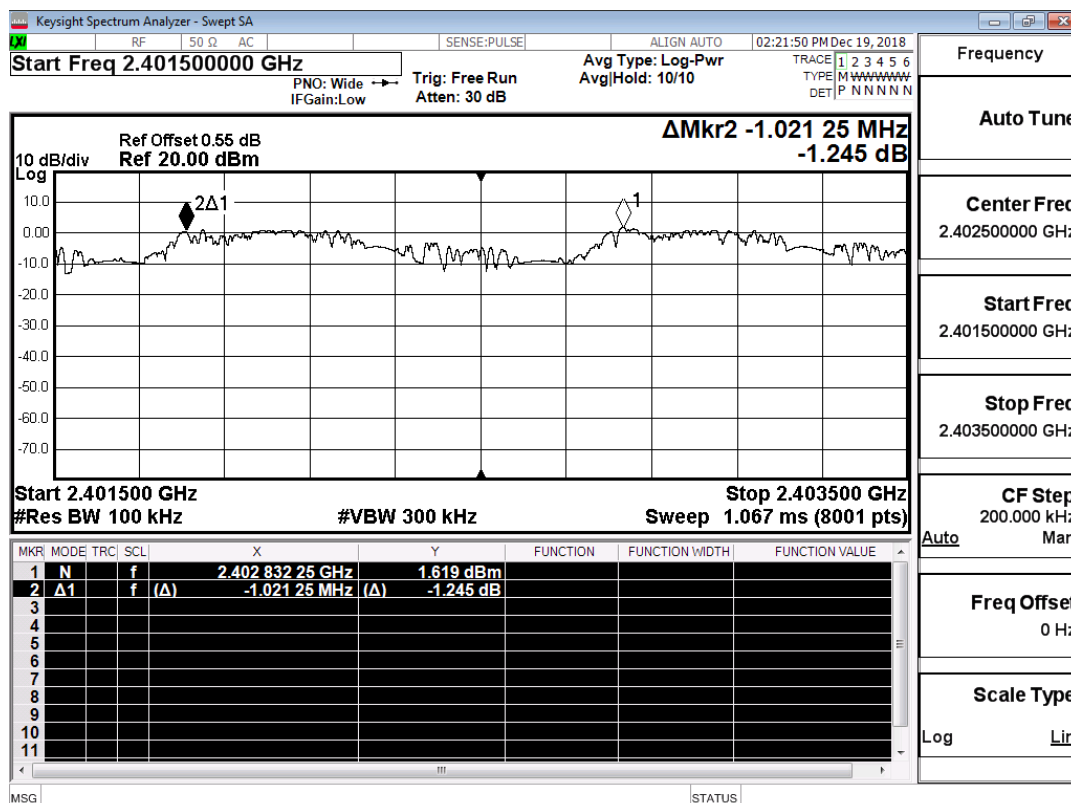
GFSK/HCH



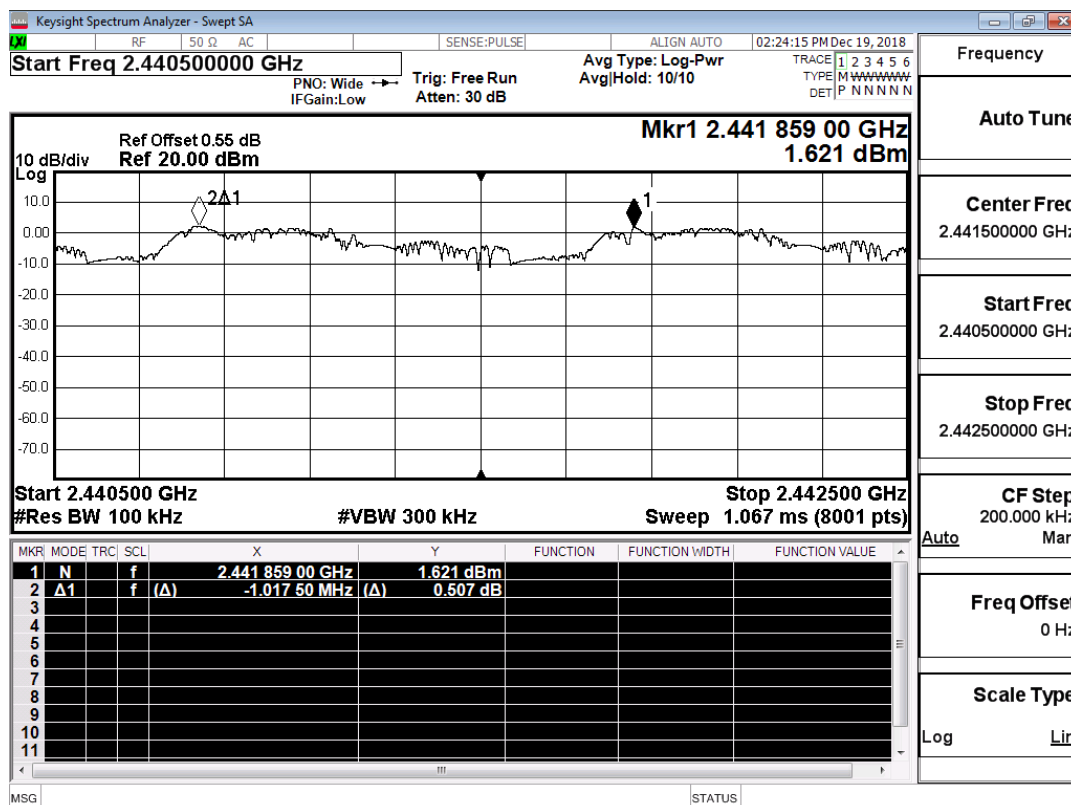
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

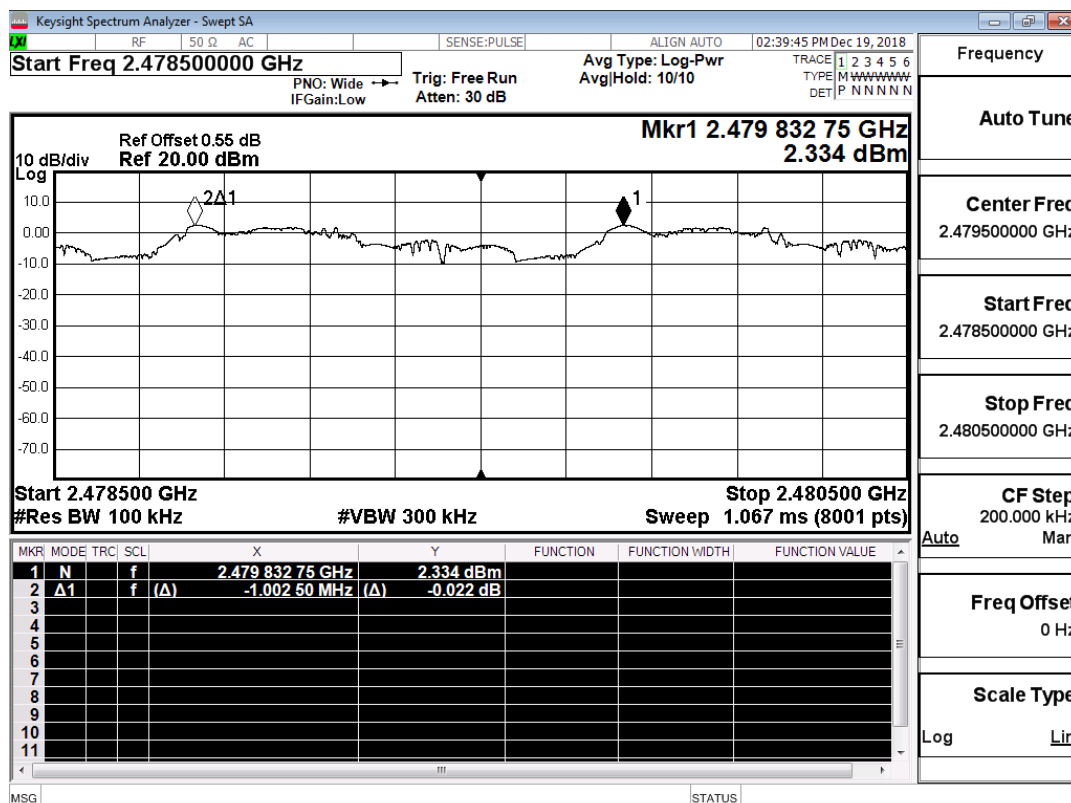
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

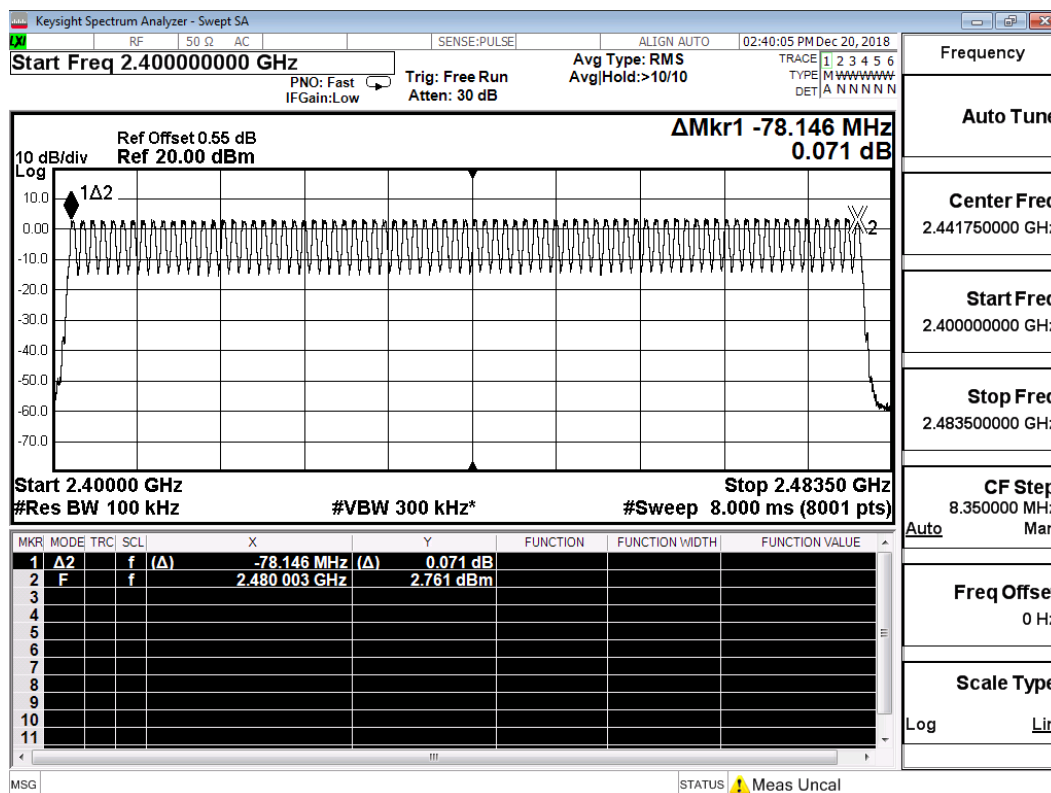


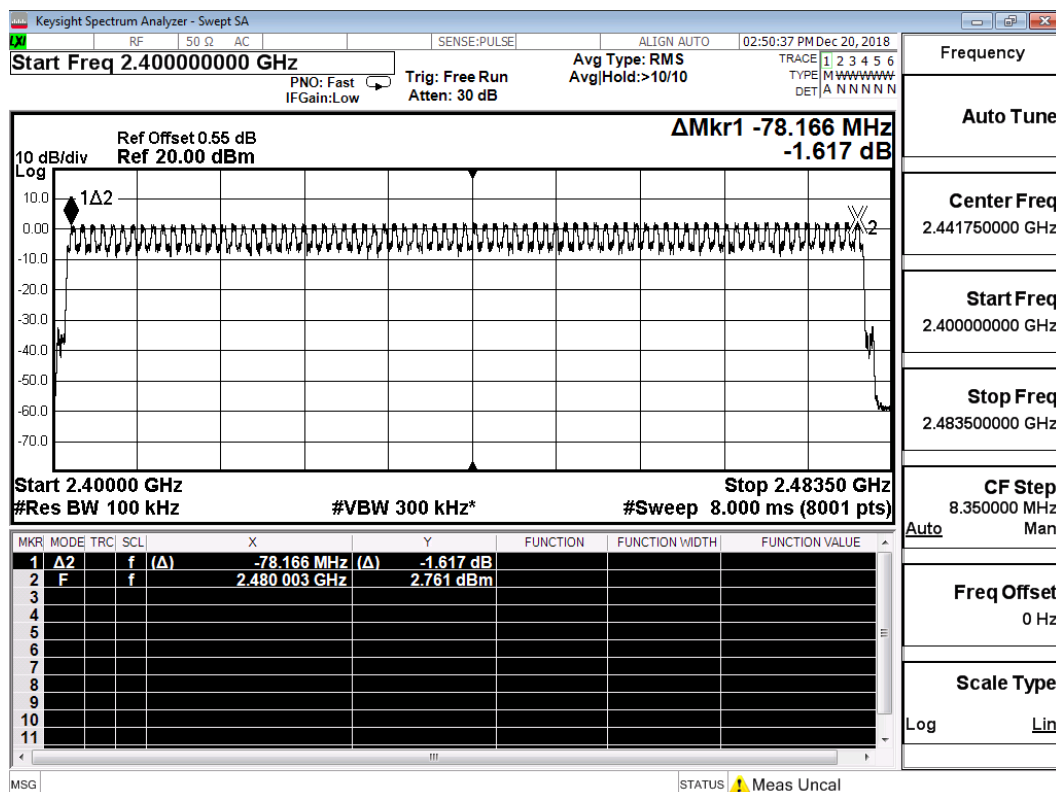
A.4 Hopping Channel Number

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

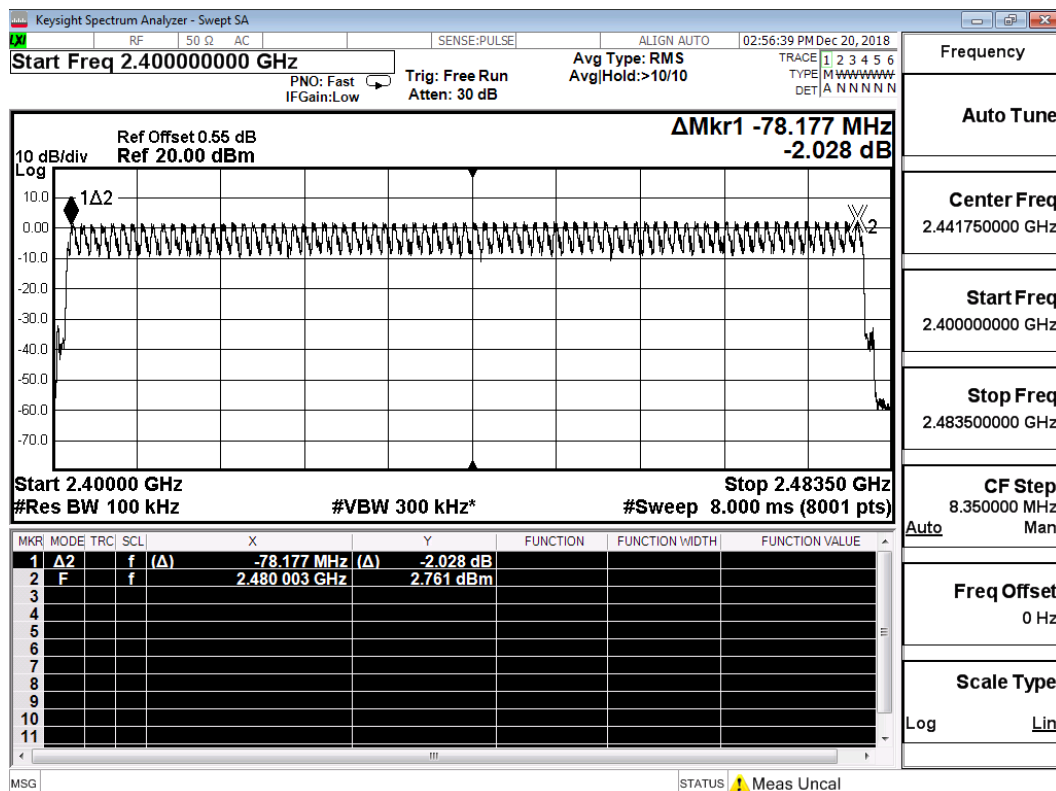
Test Graphs

GFSK/Hop



$\pi/4$ DQPSK/Hop

8DPSK/Hop

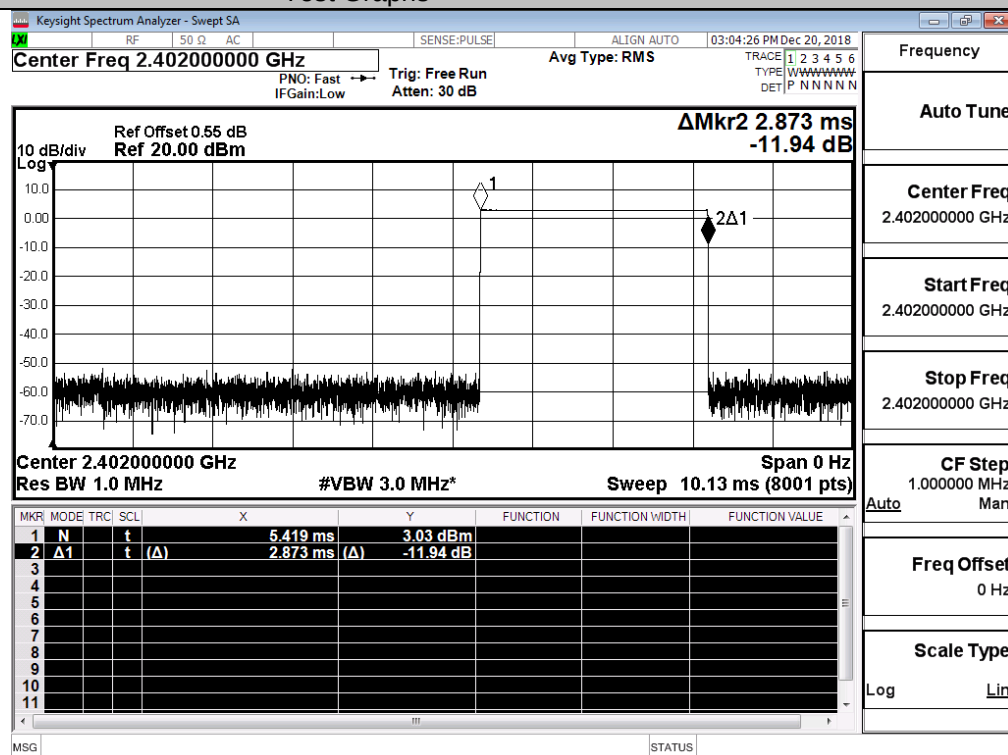


A.5 Dwell Time

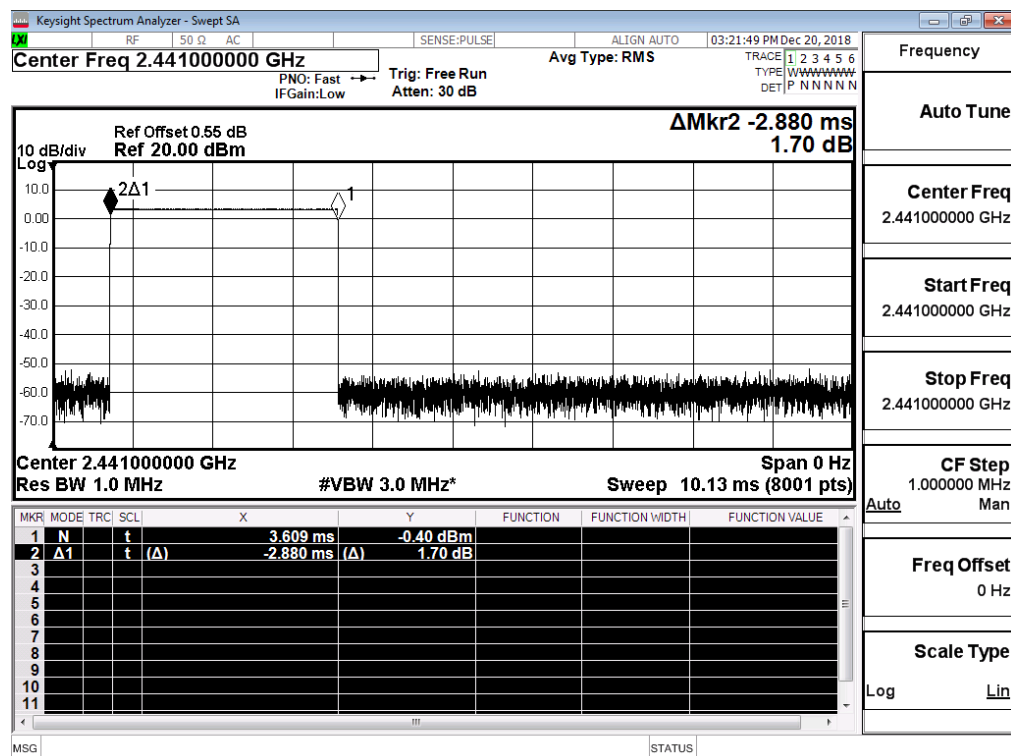
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.873	106.7	0.306	0.4	PASS
	DH5	MCH	2.880	106.7	0.307	0.4	PASS
	DH5	HCH	2.880	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.866	106.7	0.306	0.4	PASS
	2DH5	MCH	2.883	106.7	0.308	0.4	PASS
	2DH5	HCH	2.879	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.882	106.7	0.307	0.4	PASS
	3DH5	MCH	2.885	106.7	0.308	0.4	PASS
	3DH5	HCH	2.885	106.7	0.308	0.4	PASS

Test Graphs

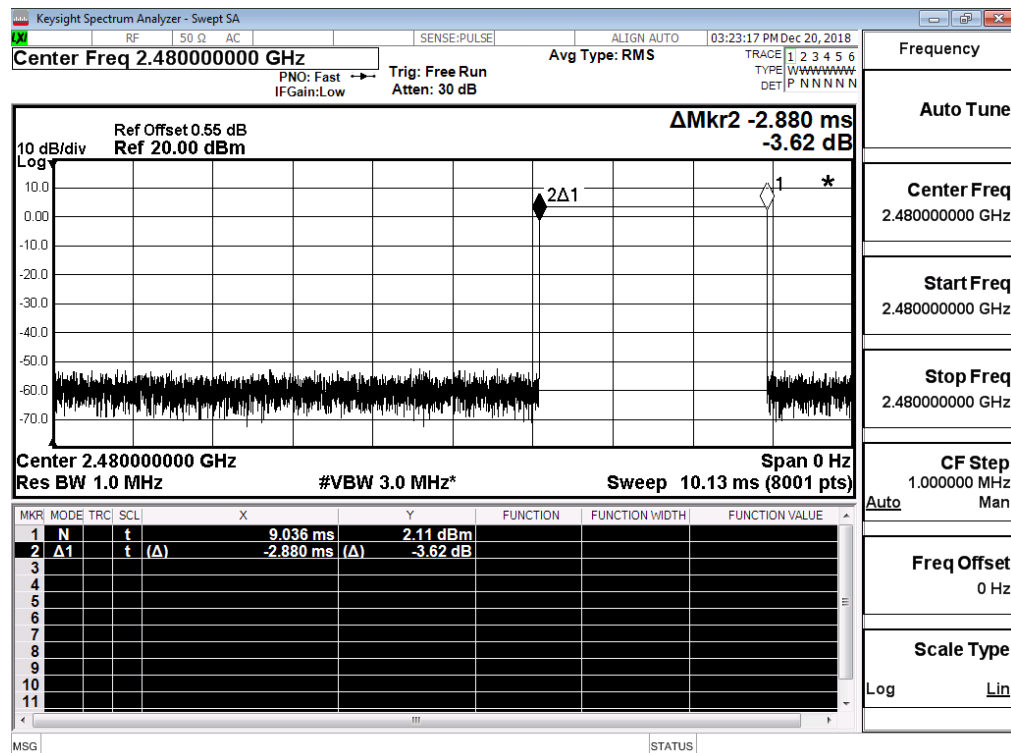
GFSK_DH5/LCH



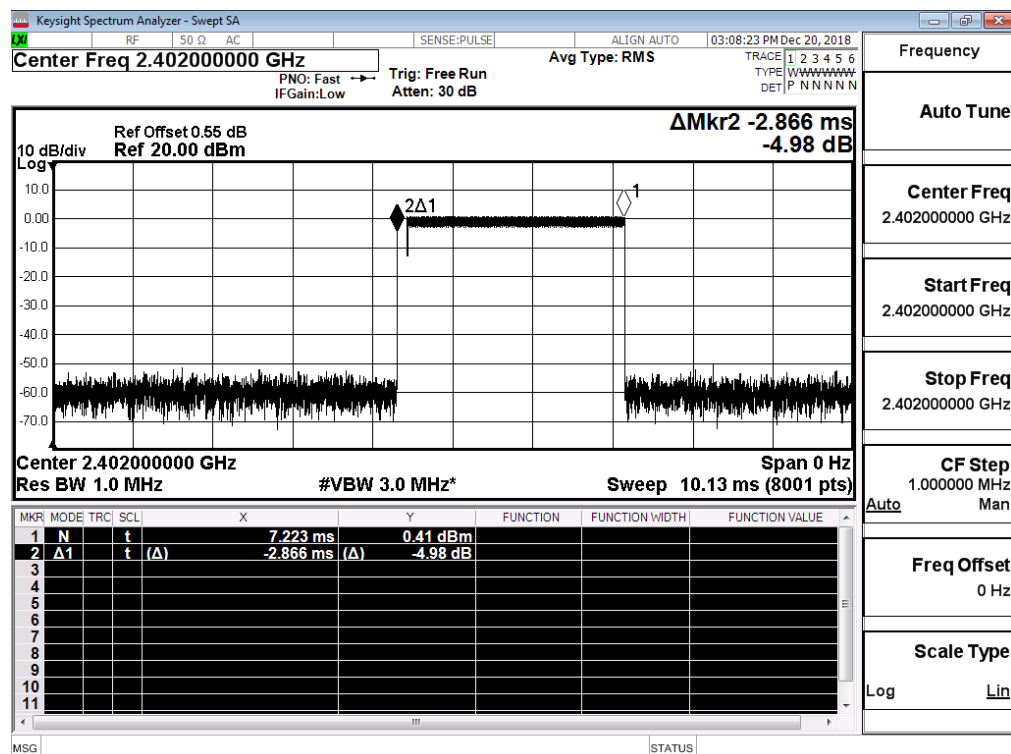
GFSK_DH5/MCH



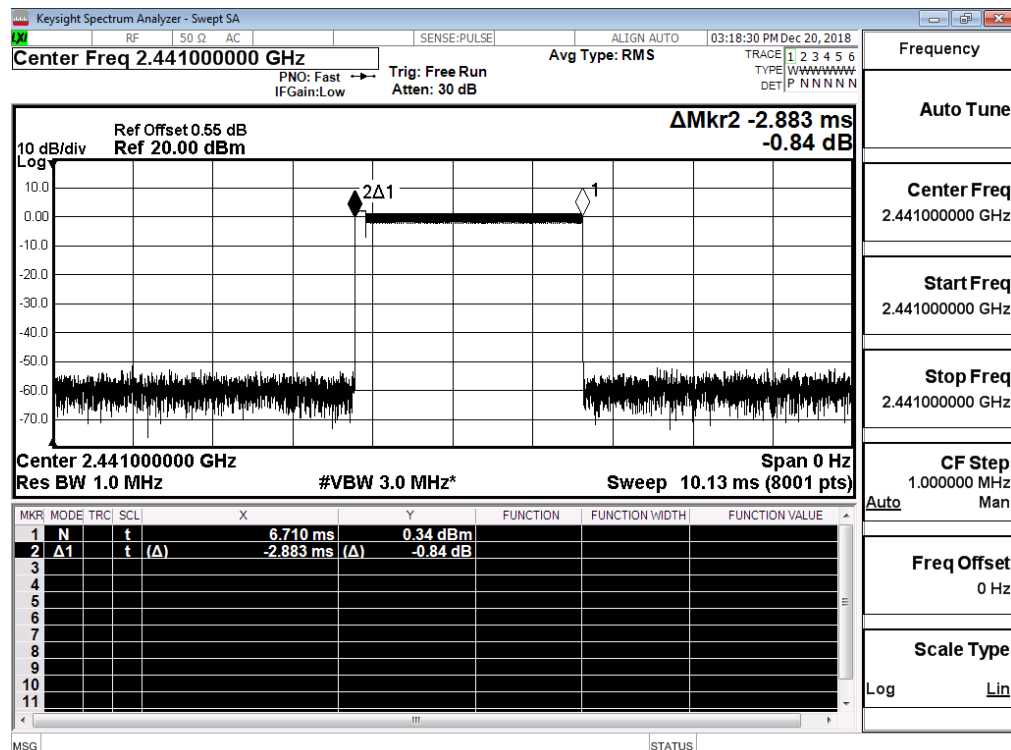
GFSK_DH5/HCH



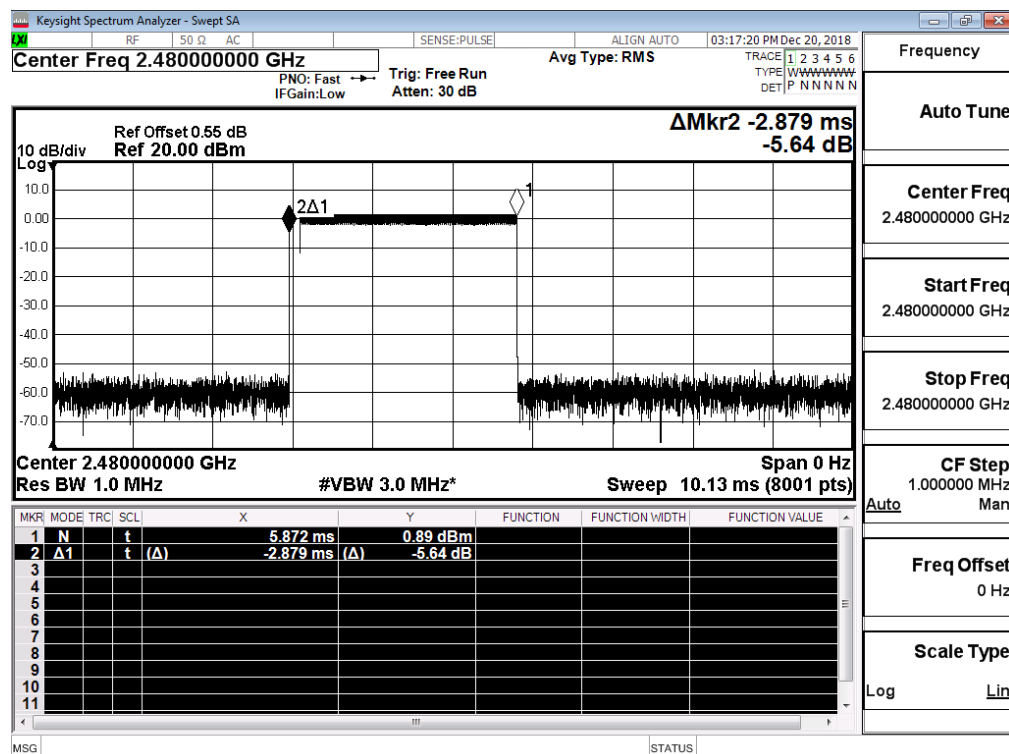
π /4DQPSK
_2DH5/LCH



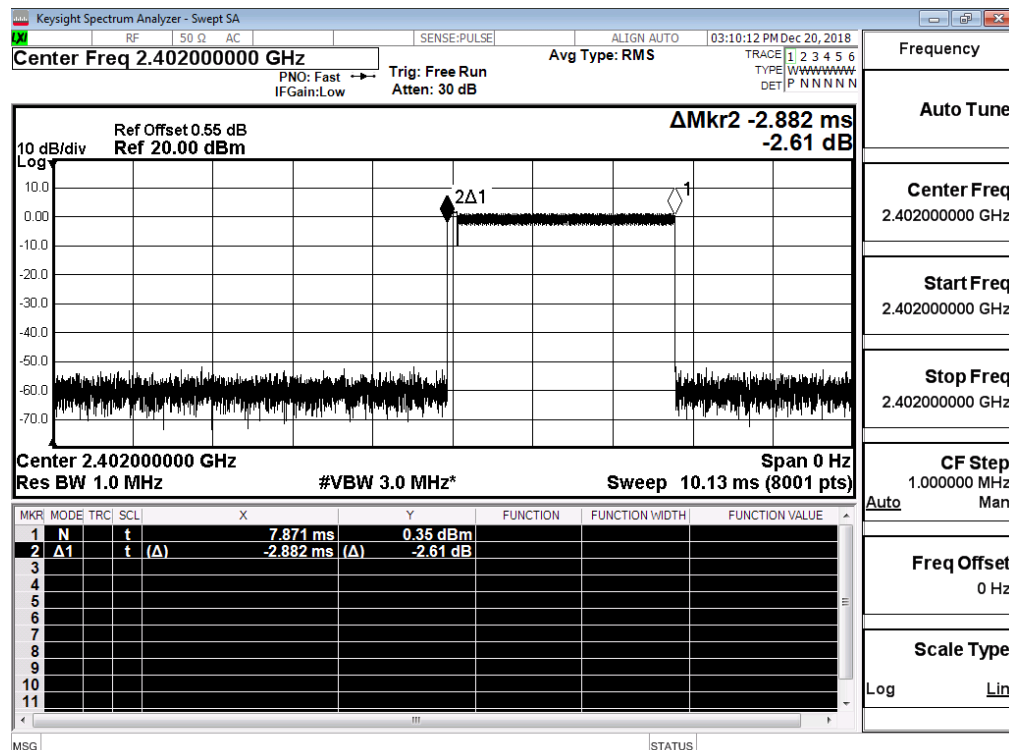
π /4DQPSK
_2DH5/MCH



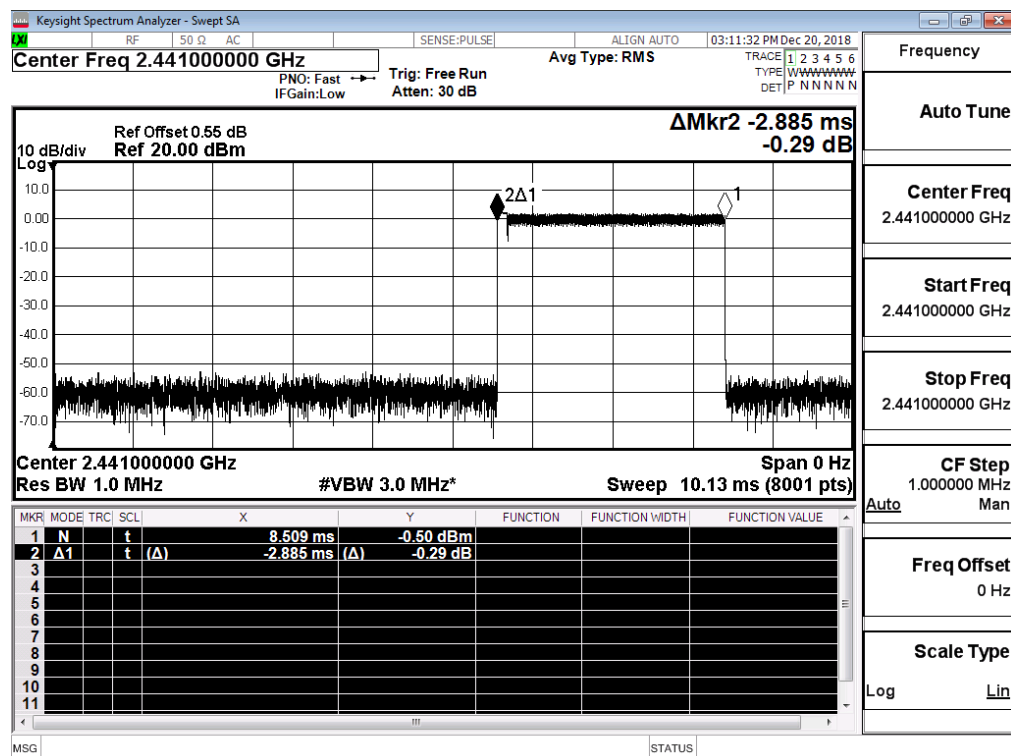
$\pi/4$ DQPSK
_2DH5/HCH



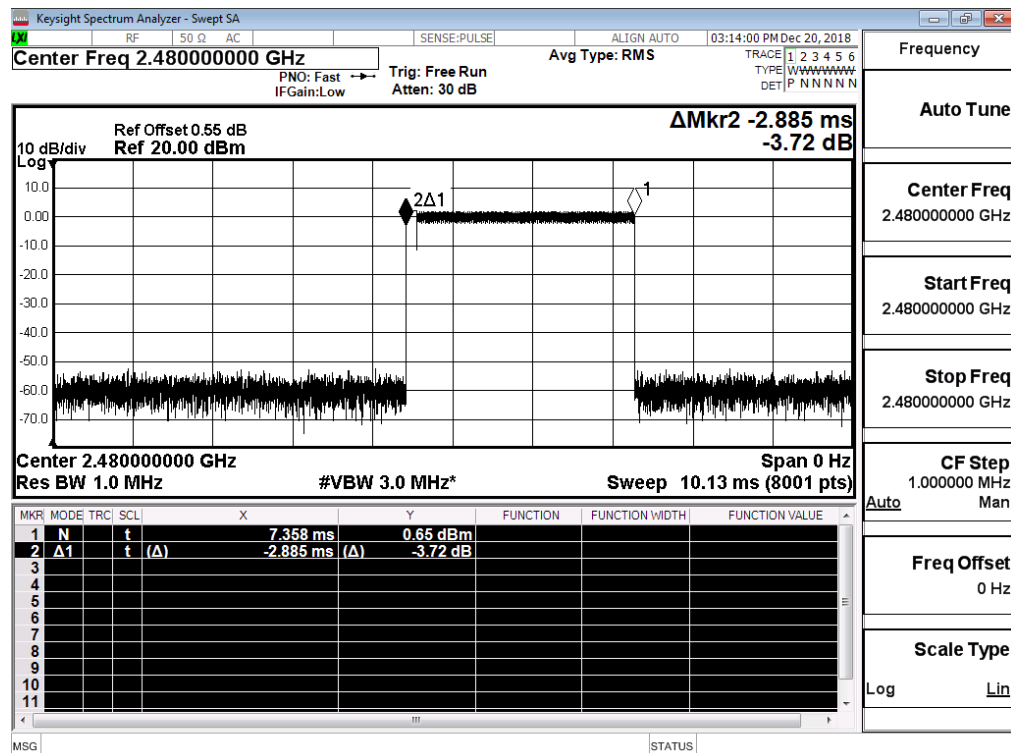
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



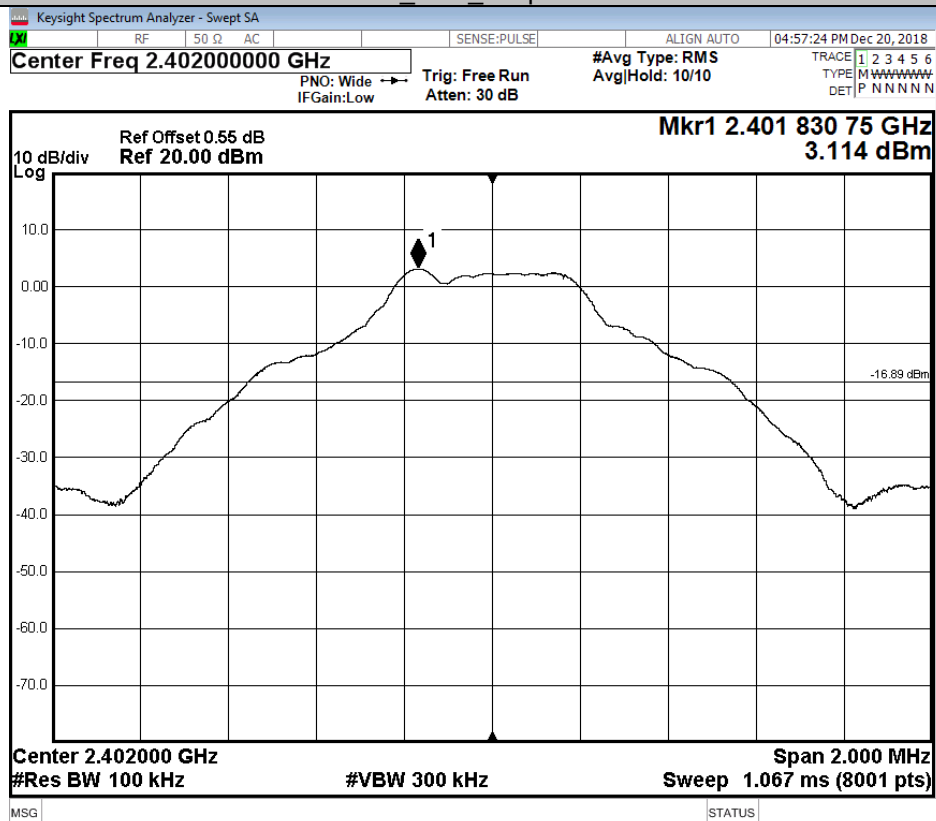
8DPSK_3DH5/HCH



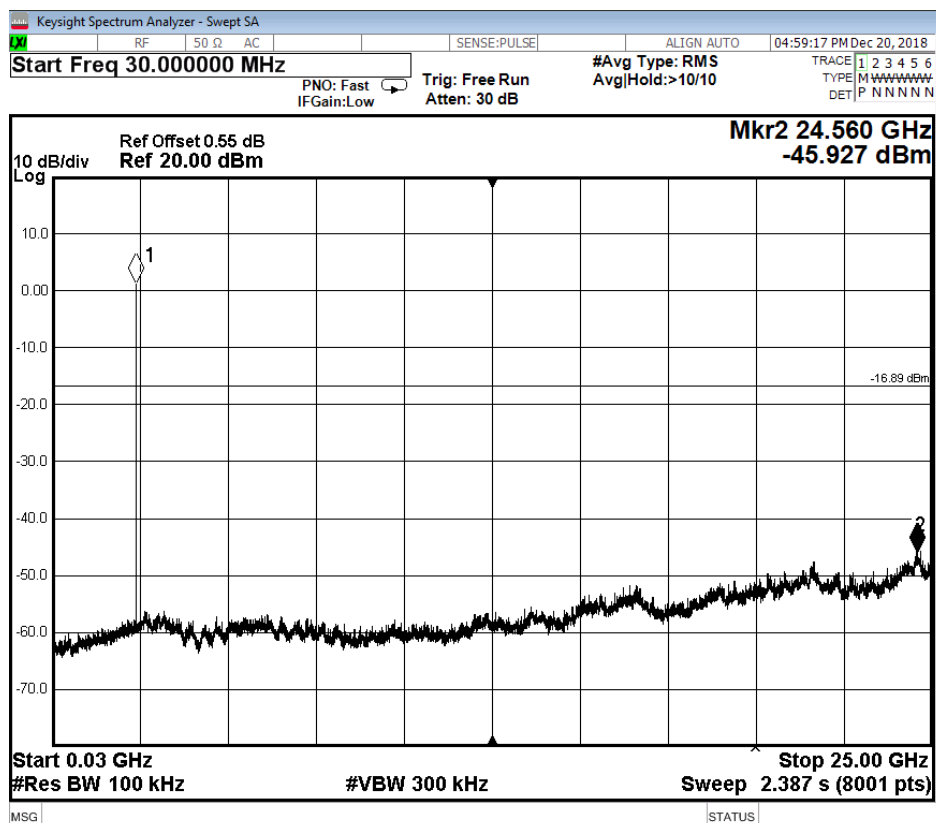
A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	3.114	-45.927	-16.89	PASS
	MCH	3.394	-45.235	-16.61	PASS
	HCH	3.610	-47.052	-16.39	PASS
$\pi/4$ DQPSK	LCH	1.760	-45.367	-18.24	PASS
	MCH	2.186	-47.921	-17.81	PASS
	HCH	2.336	-47.265	-17.66	PASS
8DPSK	LCH	1.776	-46.966	-18.22	PASS
	MCH	2.240	-47.079	-17.76	PASS
	HCH	2.463	-47.475	-17.54	PASS

Pref

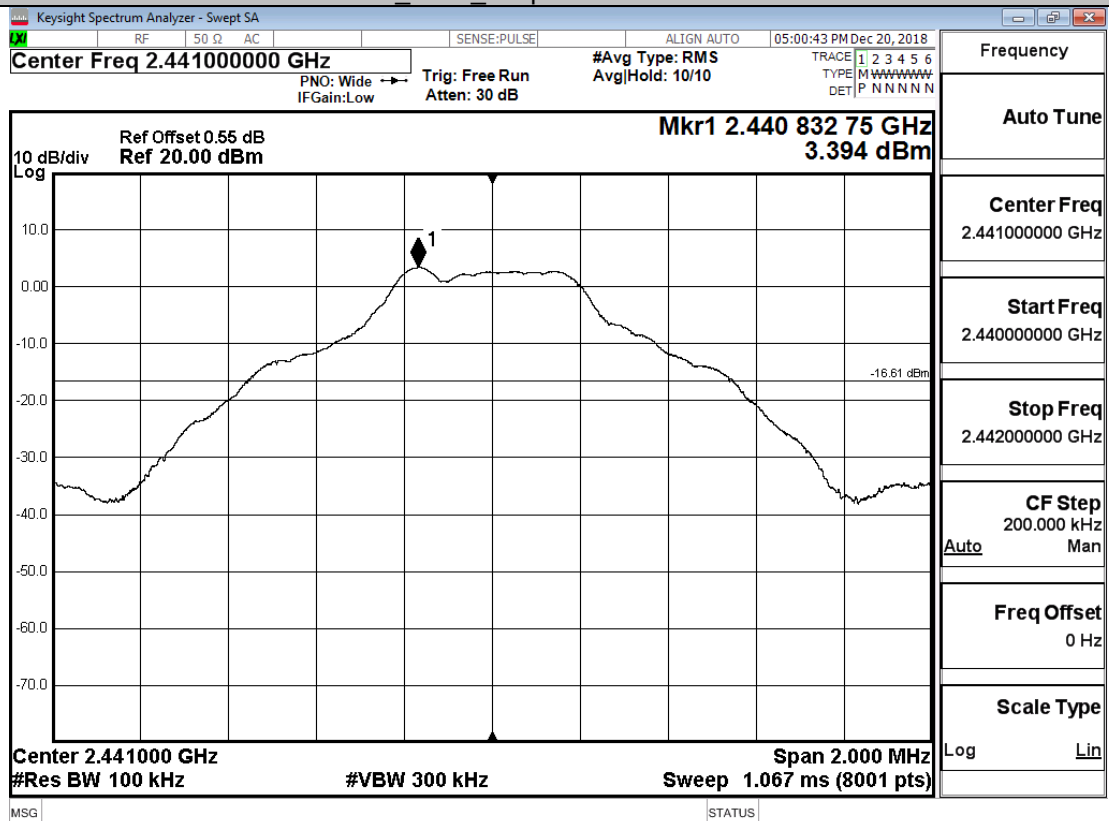


Puw

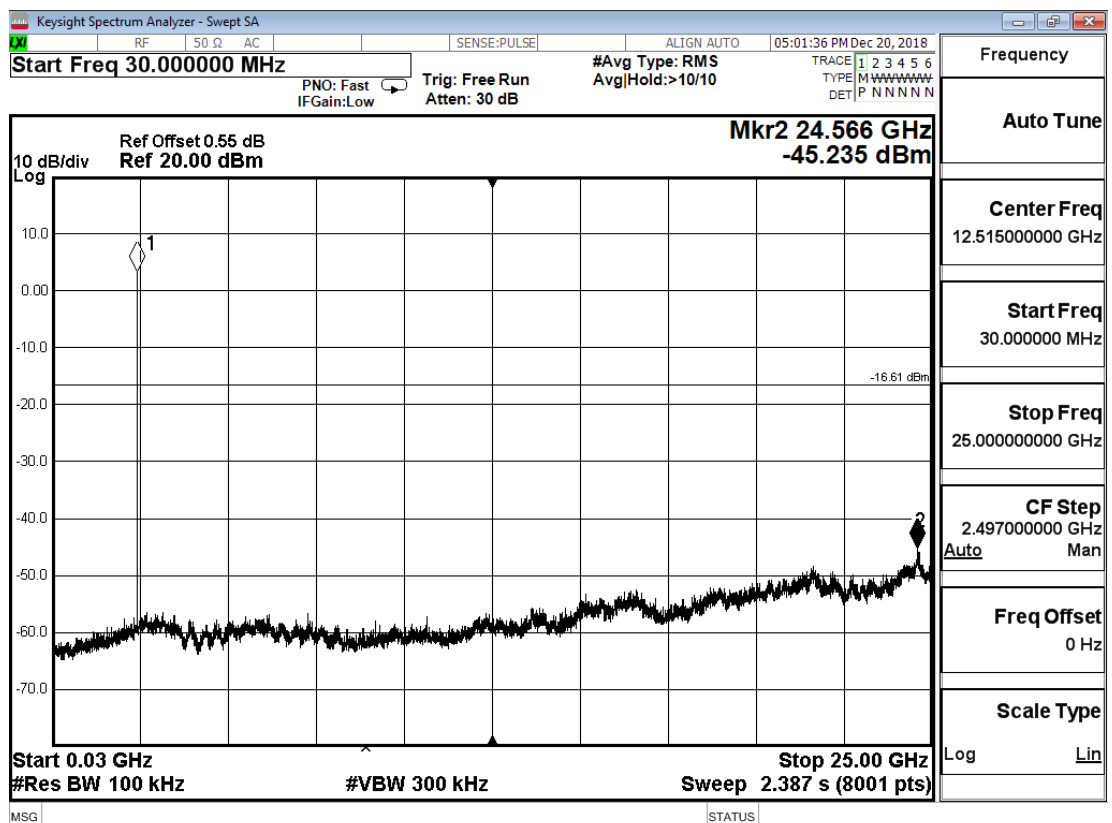


GFSK_MCH_Graphs

Pref

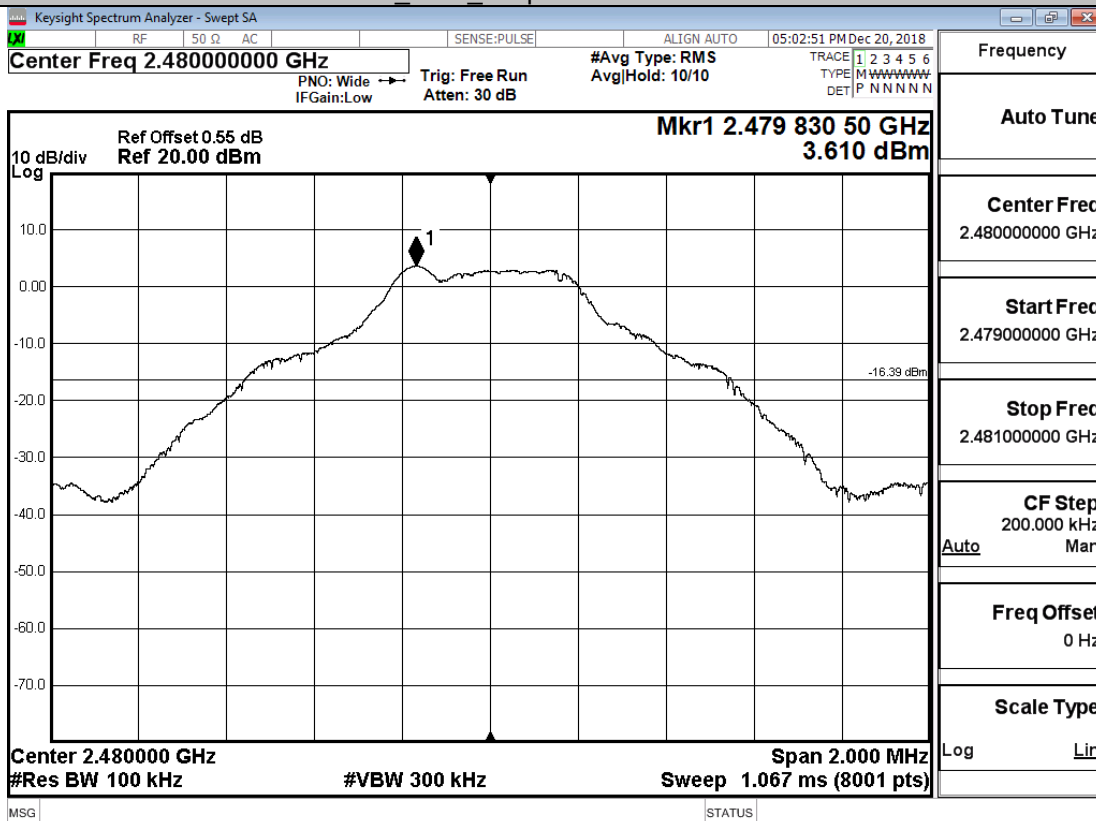


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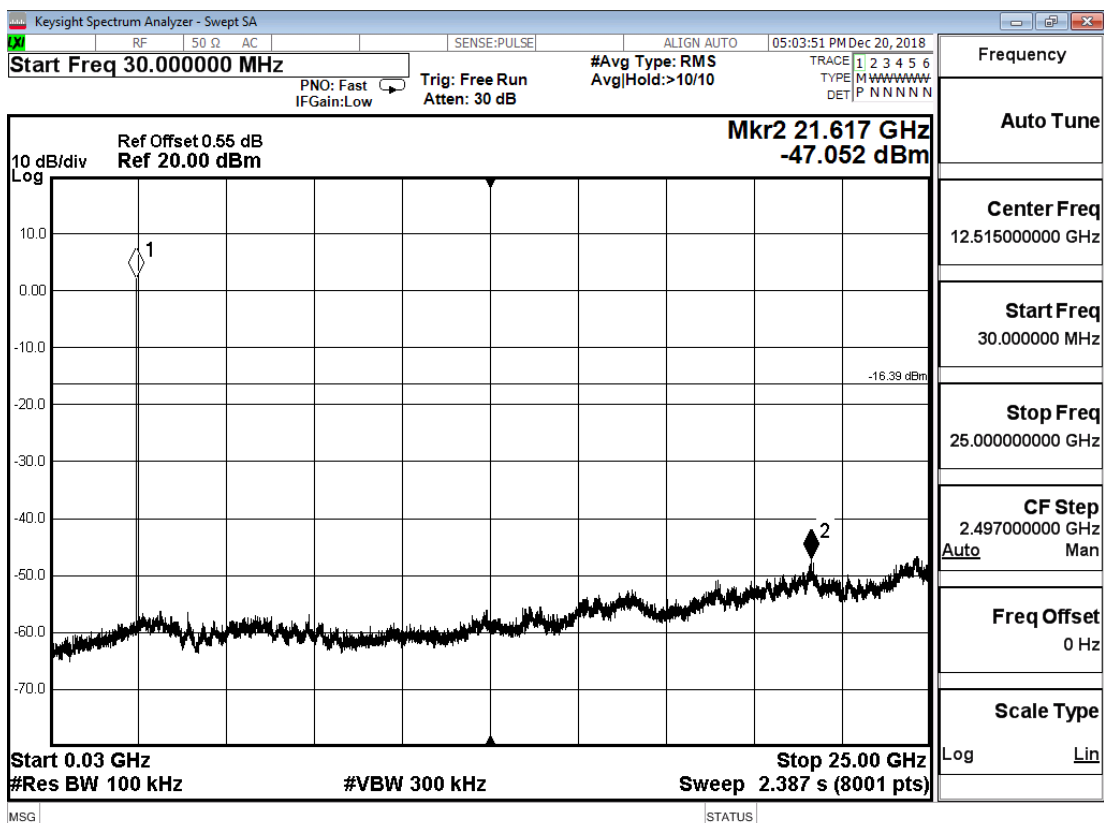


GFSK_HCH_Graphs

Pref

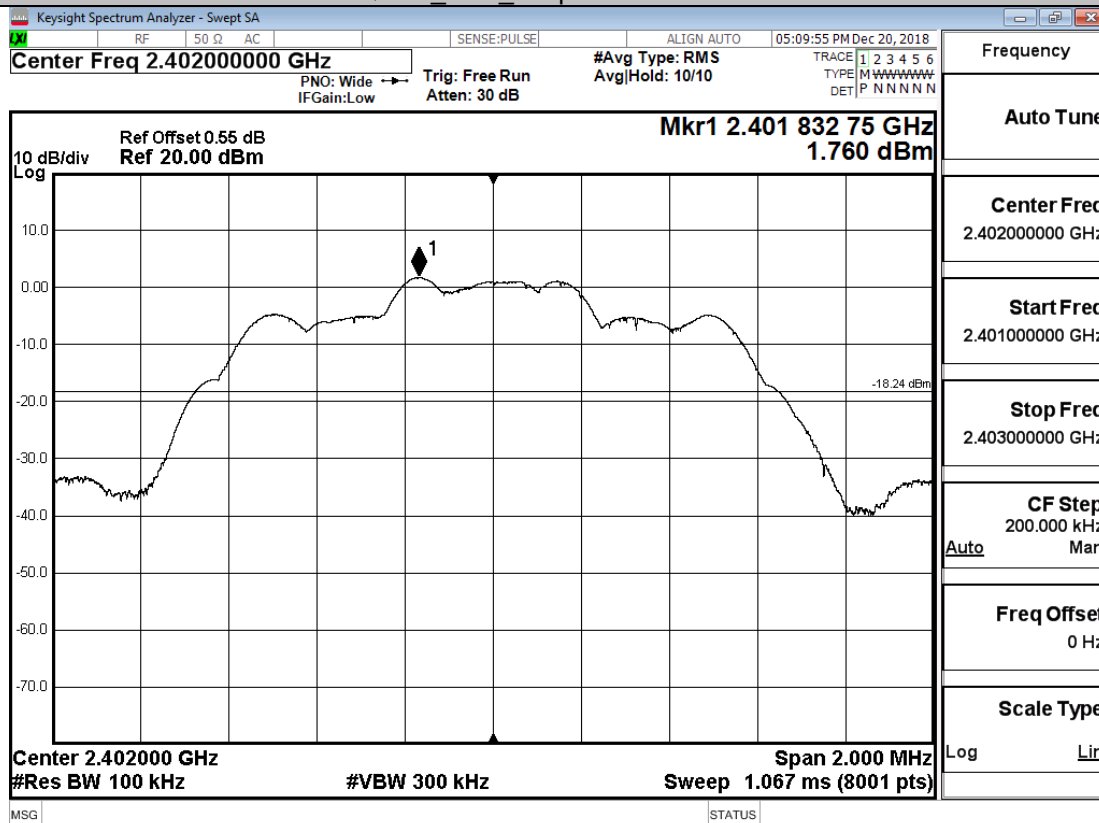


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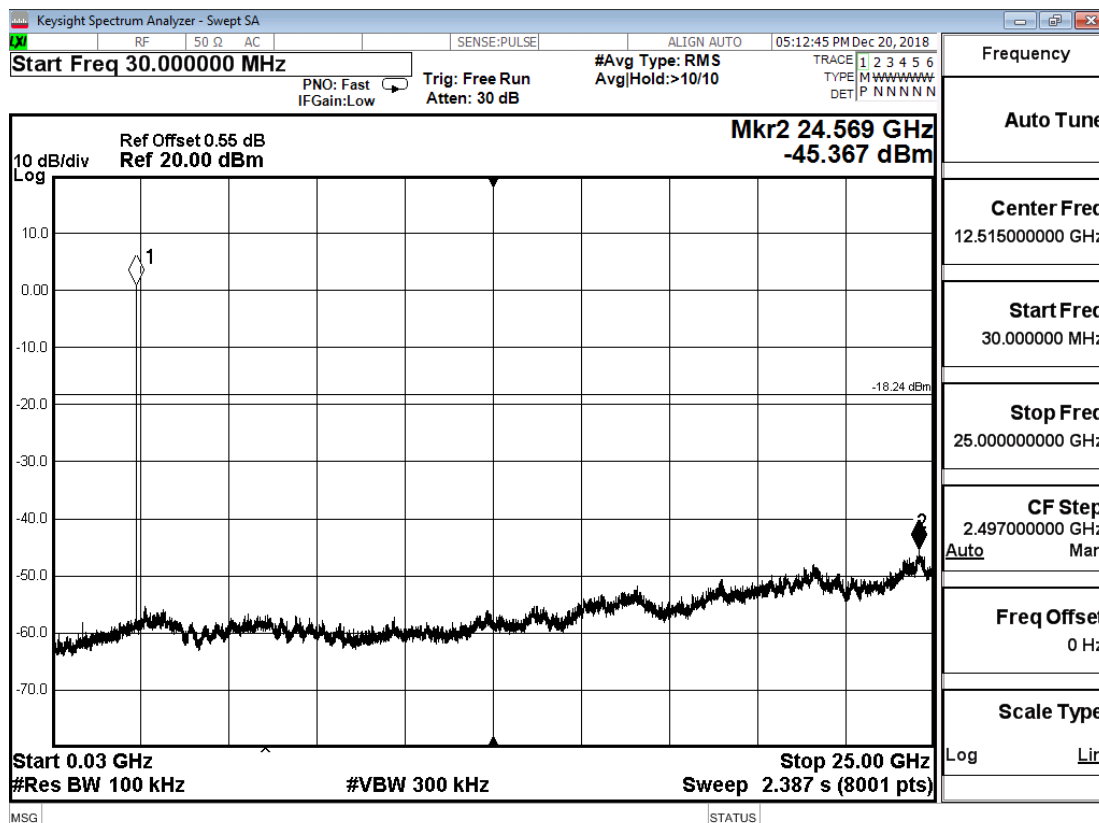


$\pi/4$ DQPSK_LCH_Graphs

Pref

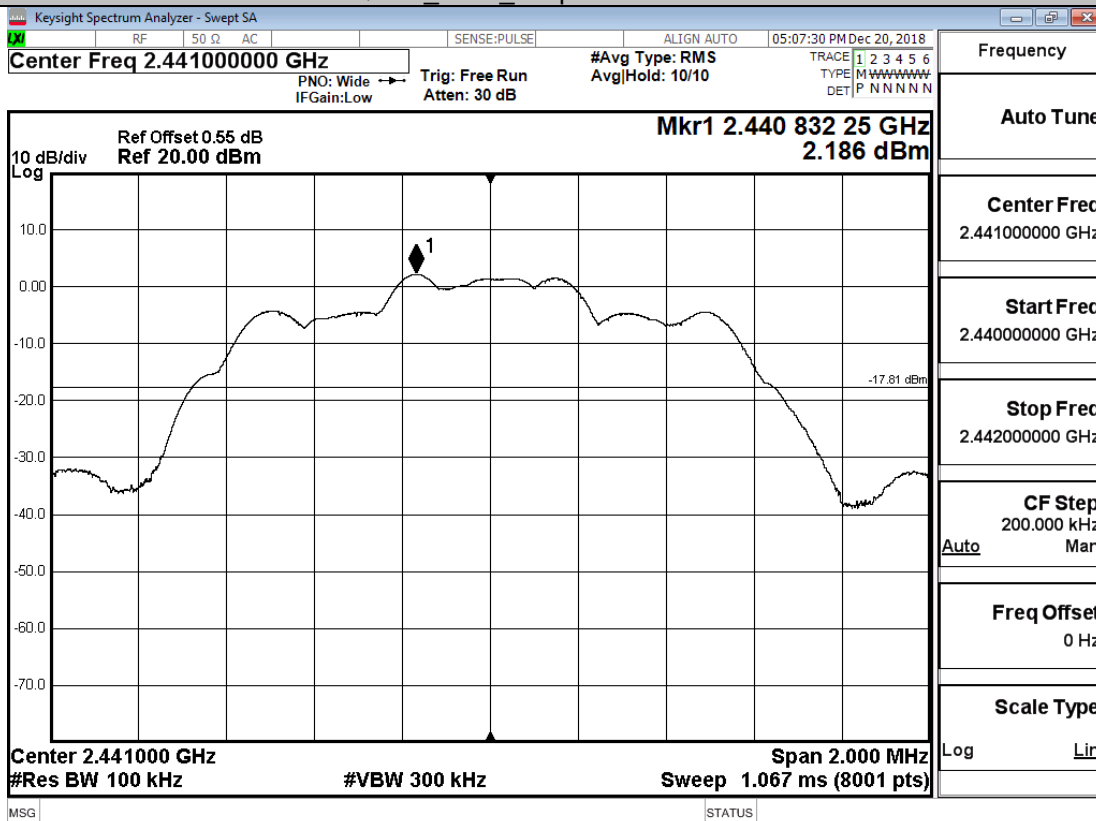


Puw

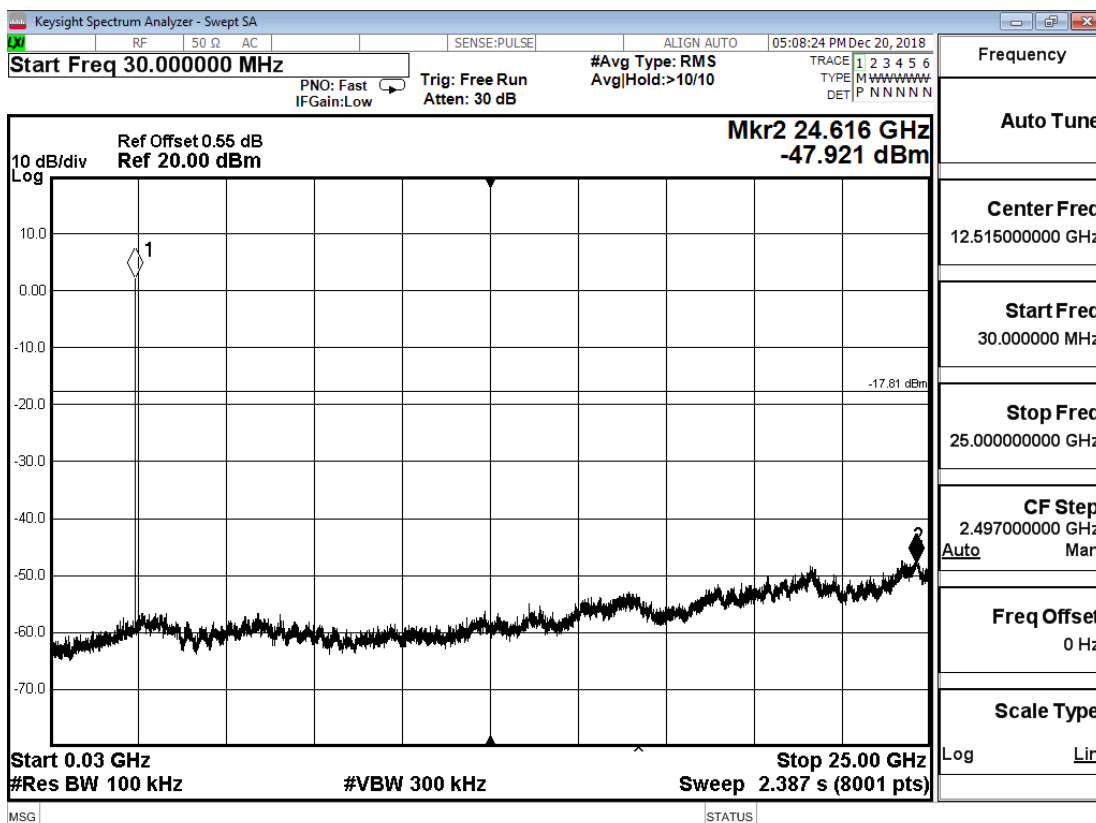


$\pi/4$ DQPSK_MCH_Graphs

Pref

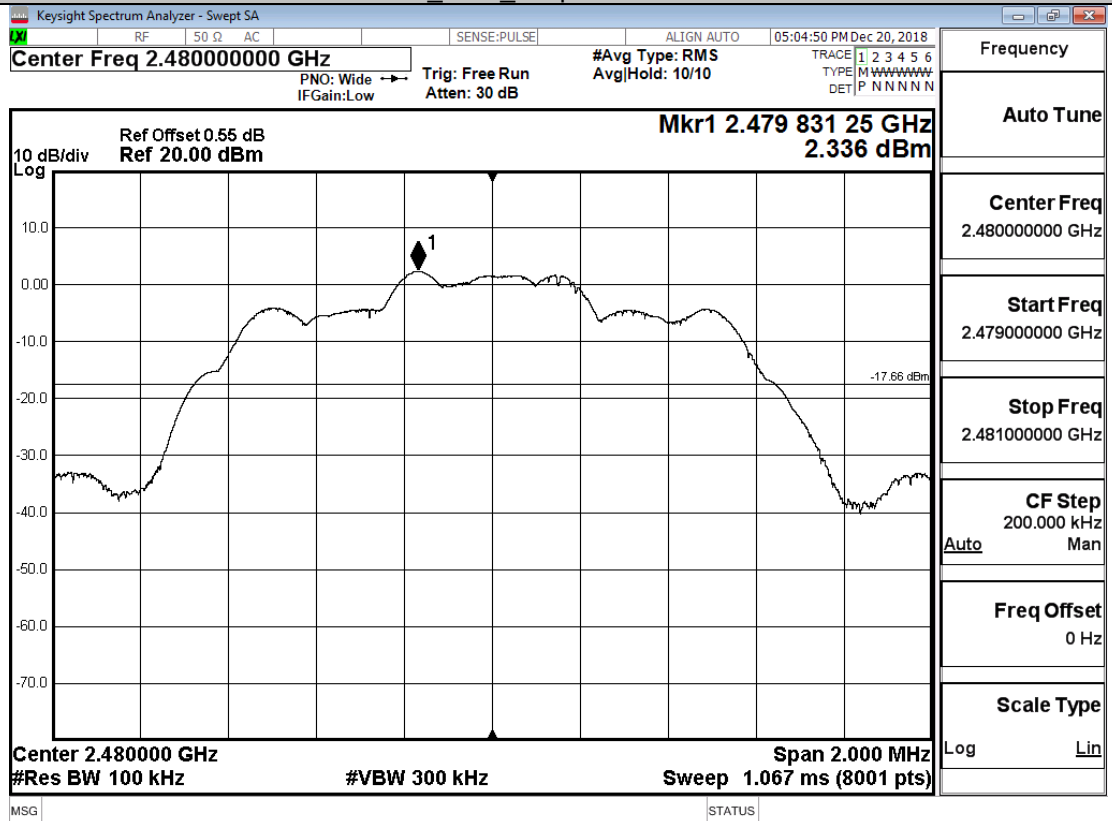


Puw

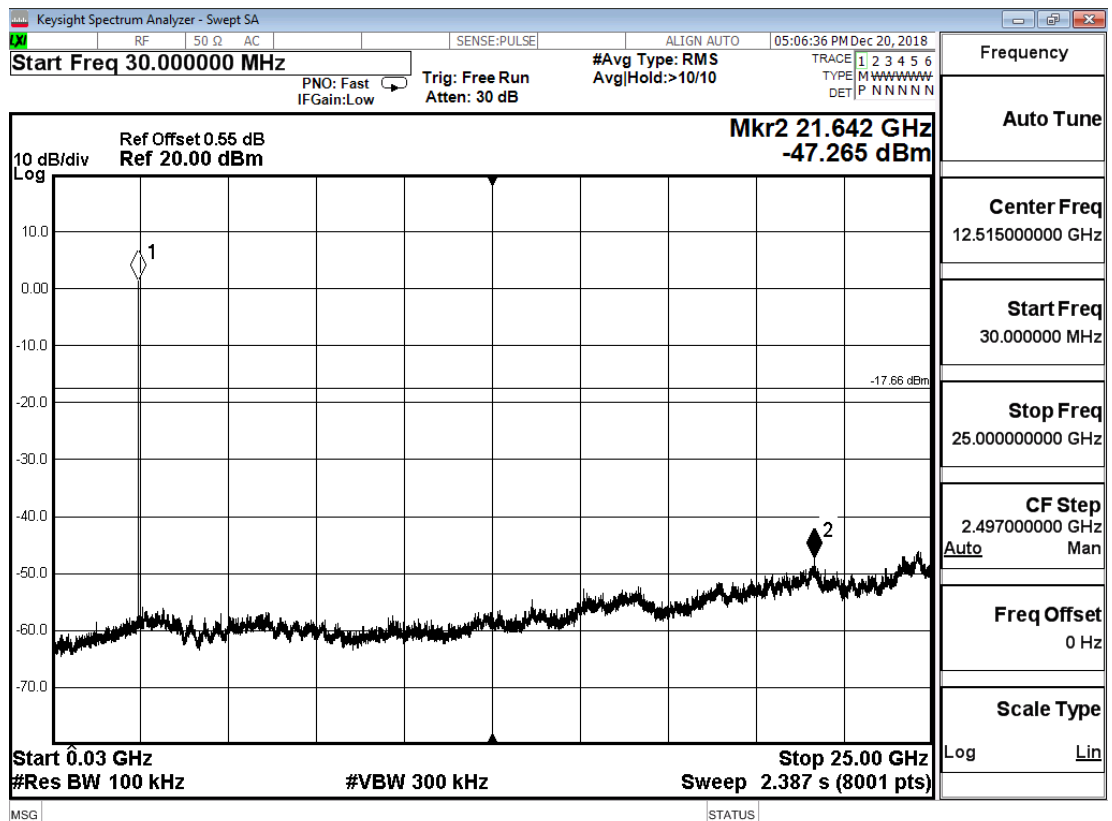


$\pi/4$ DQPSK_HCH_Graphs

Pref

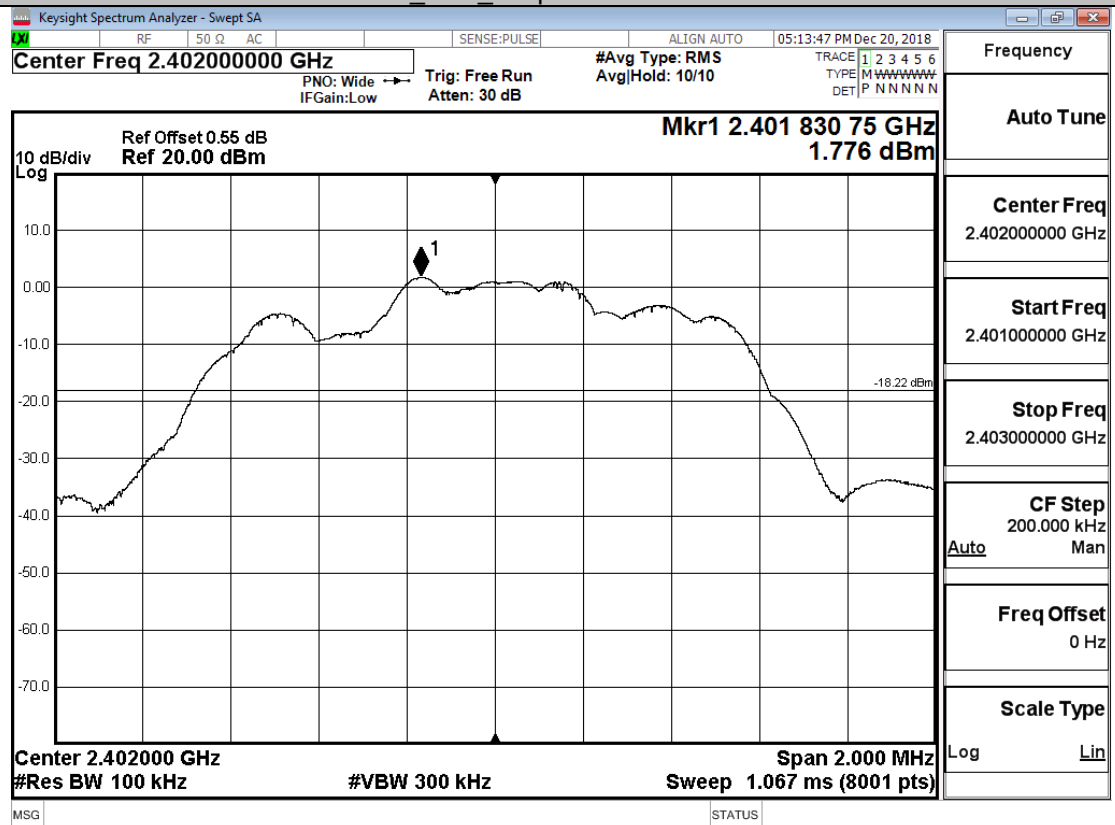


Puw

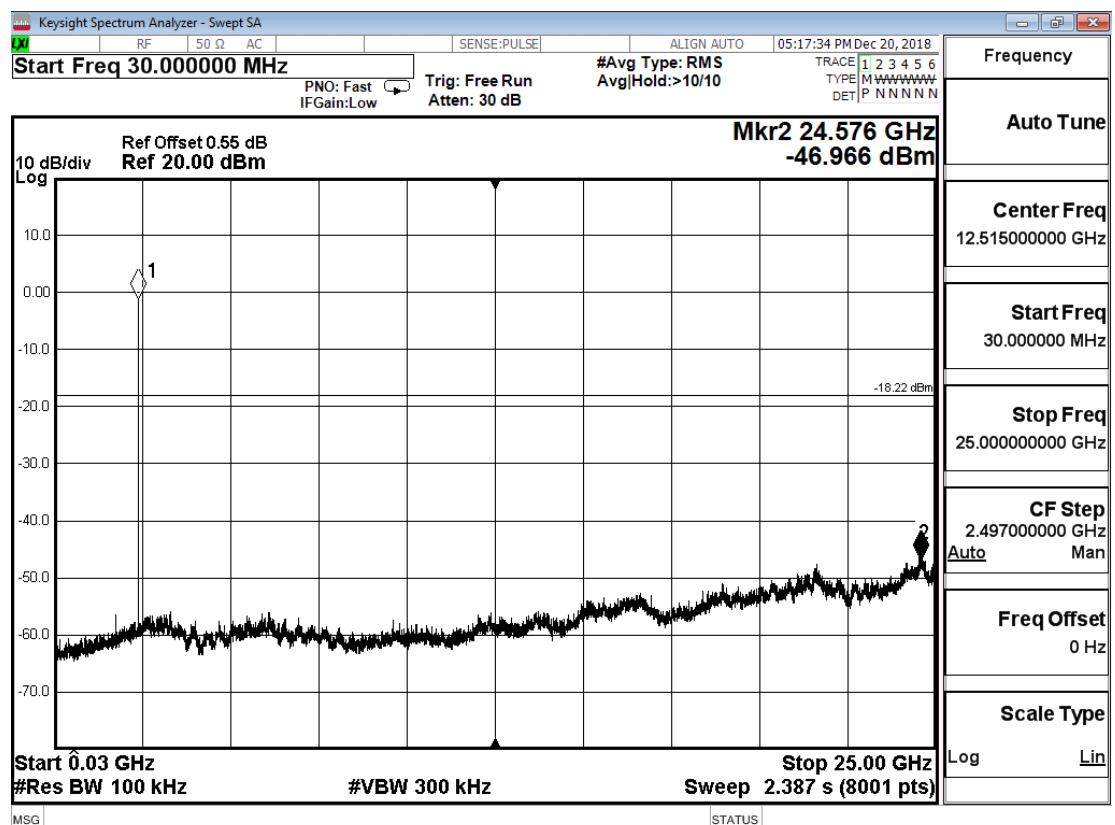


8DPSK_LCH_Graphs

Pref

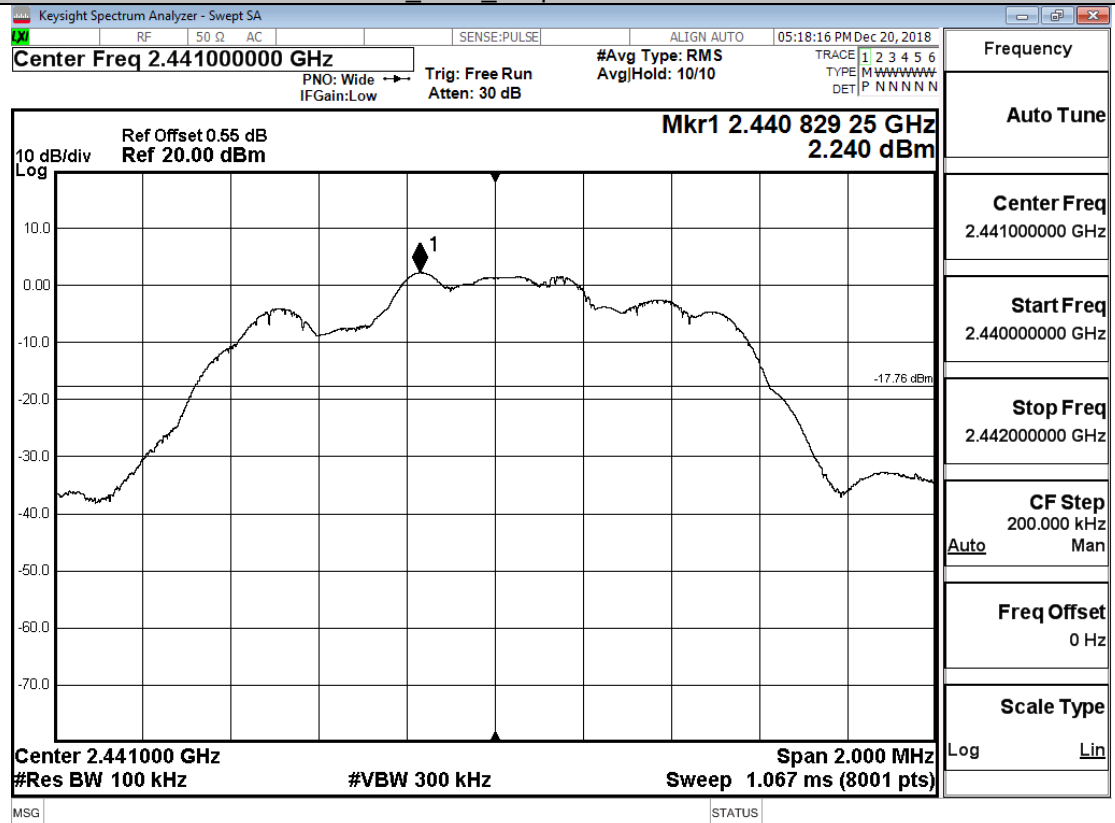


Puw

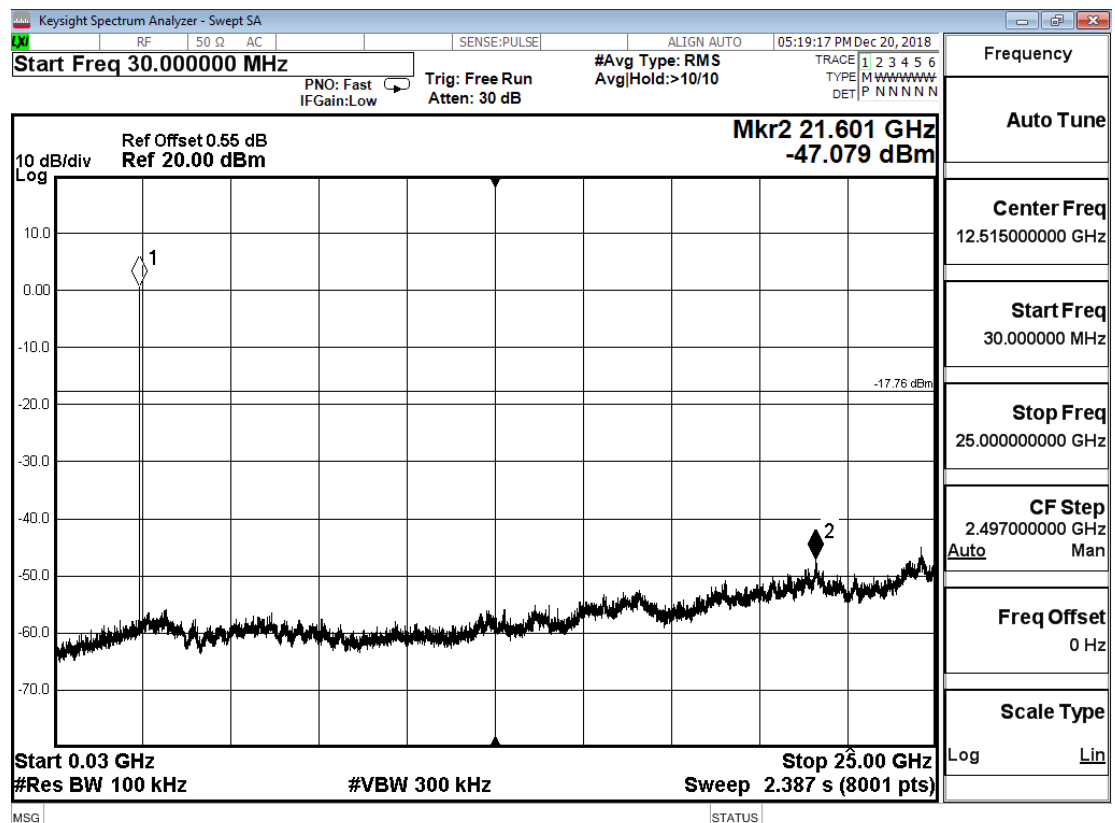


8DPSK_MCH_Graphs

Pref

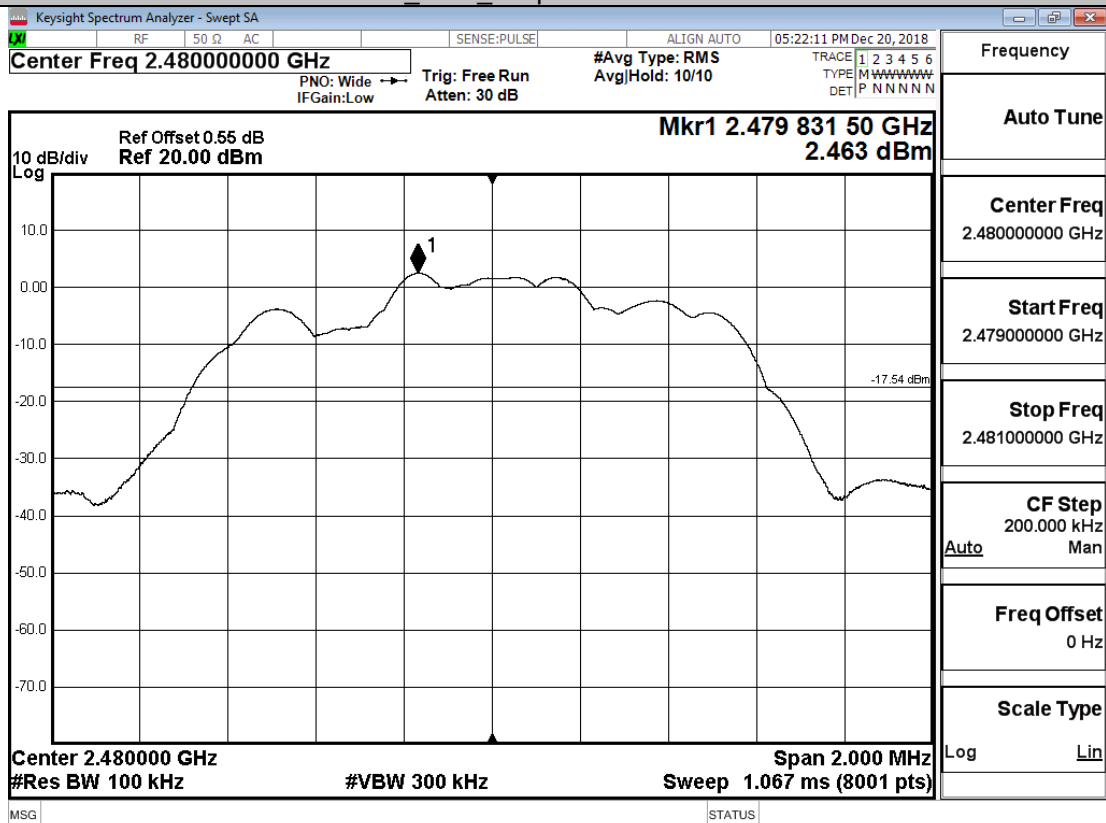


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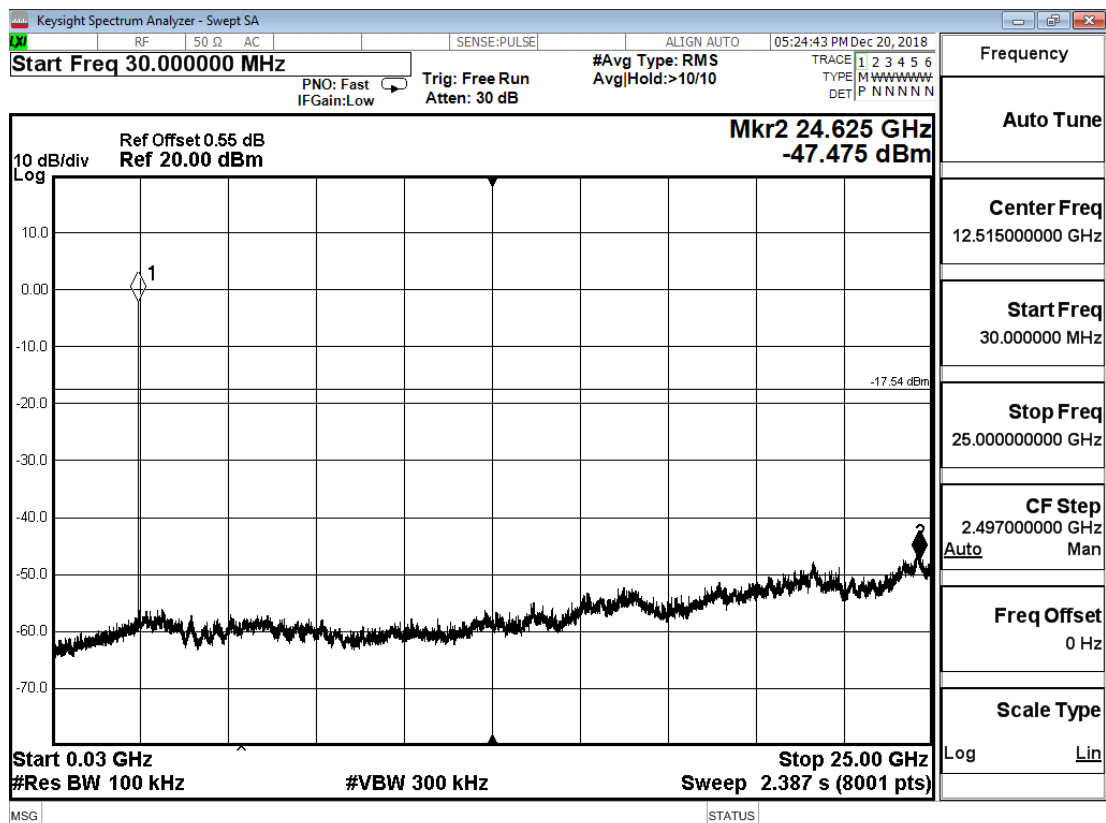


8DPSK_HCH_Graphs

Pref



Puw

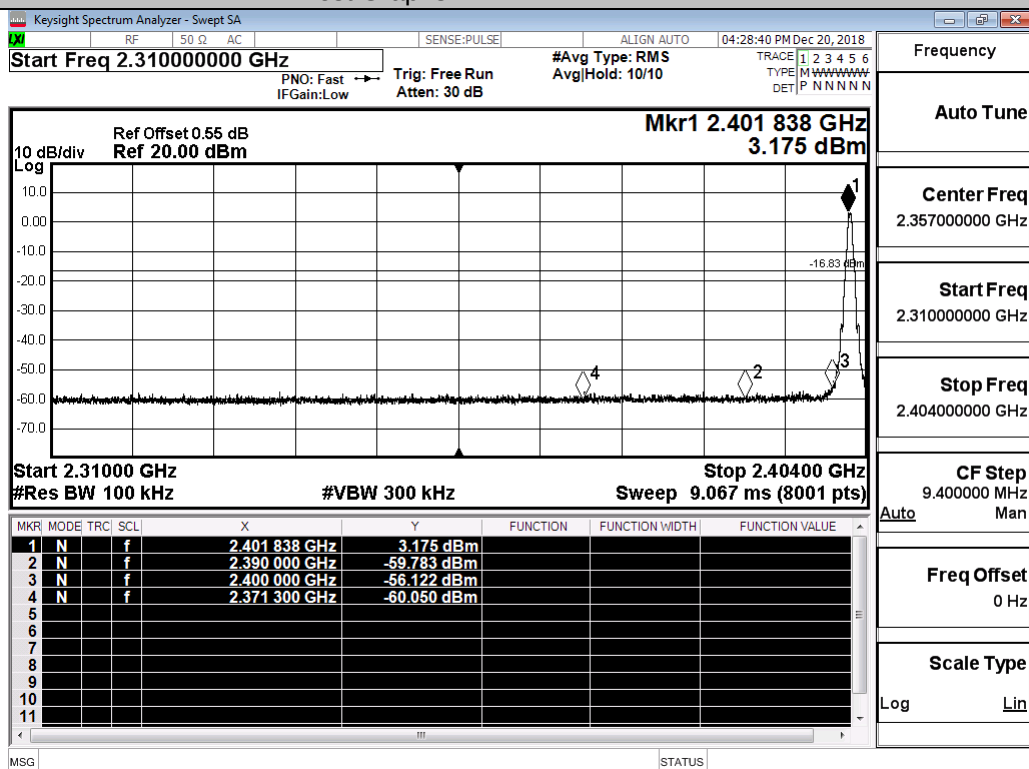


A.7 Band-edge for RF Conducted Emissions

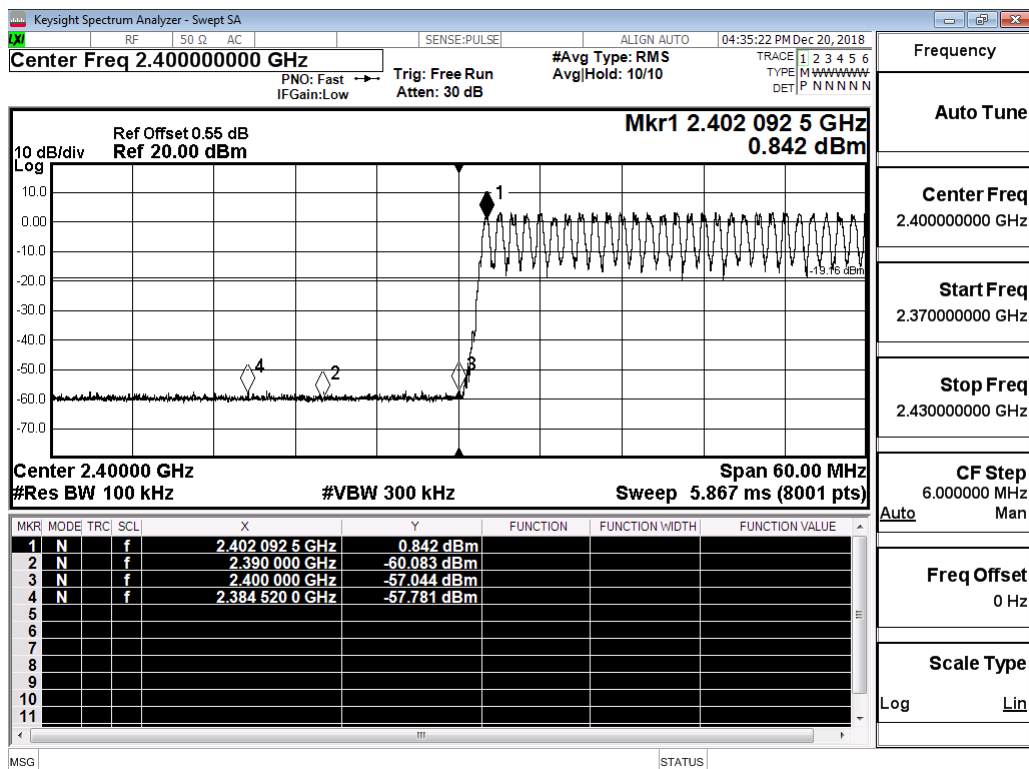
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	3.175	Off	-56.122	-16.83	PASS
			0.842	On	-57.044	-19.16	PASS
	HCH	2480	3.692	Off	-58.380	-16.31	PASS
			3.688	On	-57.006	-16.31	PASS
$\pi/4$ DQPSK	LCH	2402	1.590	Off	-57.461	-18.41	PASS
			1.702	On	-56.467	-18.30	PASS
	HCH	2480	2.453	Off	-58.969	-17.55	PASS
			0.068	On	-58.867	-19.93	PASS
8DPSK	LCH	2402	1.789	Off	-54.522	-18.21	PASS
			1.453	On	-58.852	-18.55	PASS
	HCH	2480	2.331	Off	-59.050	-17.67	PASS
			1.986	On	-56.122	-18.01	PASS

Test Graphs

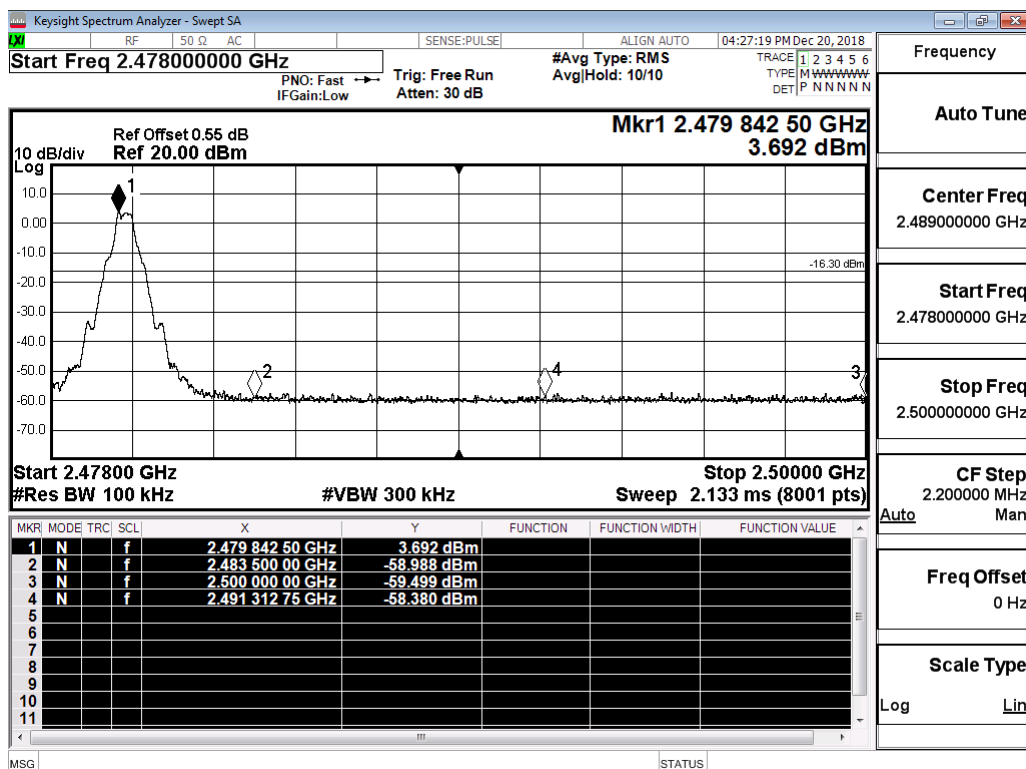
GFSK/LCH/No Hop



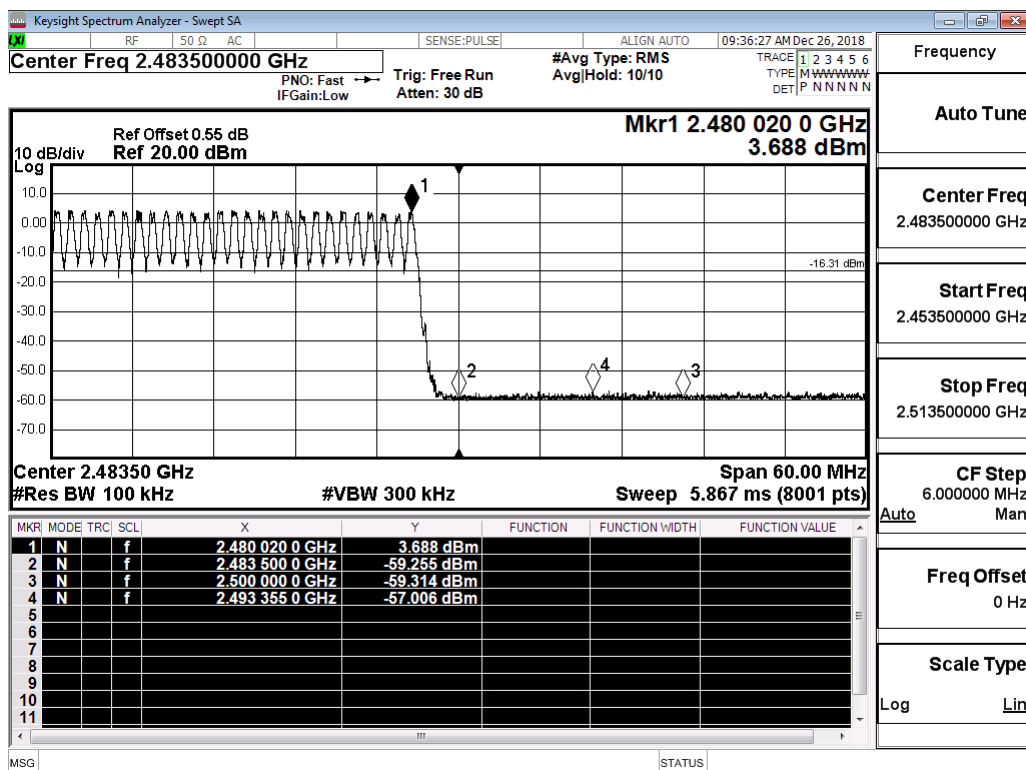
GFSK/LCH/Hop



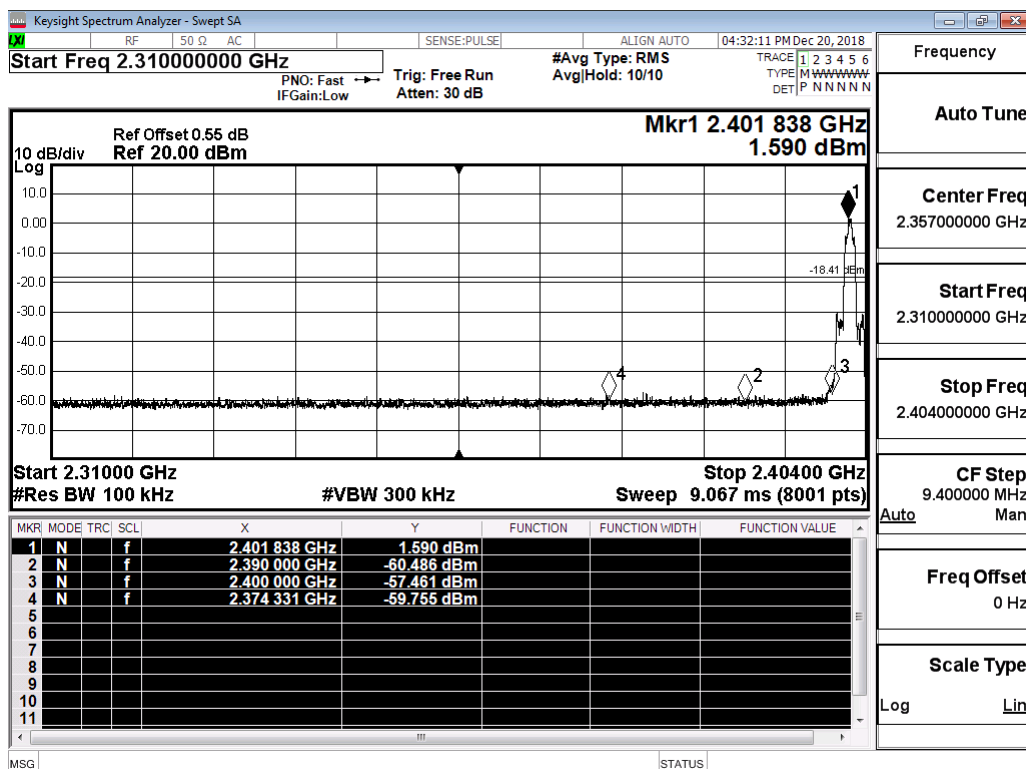
GFSK/HCH/No Hop



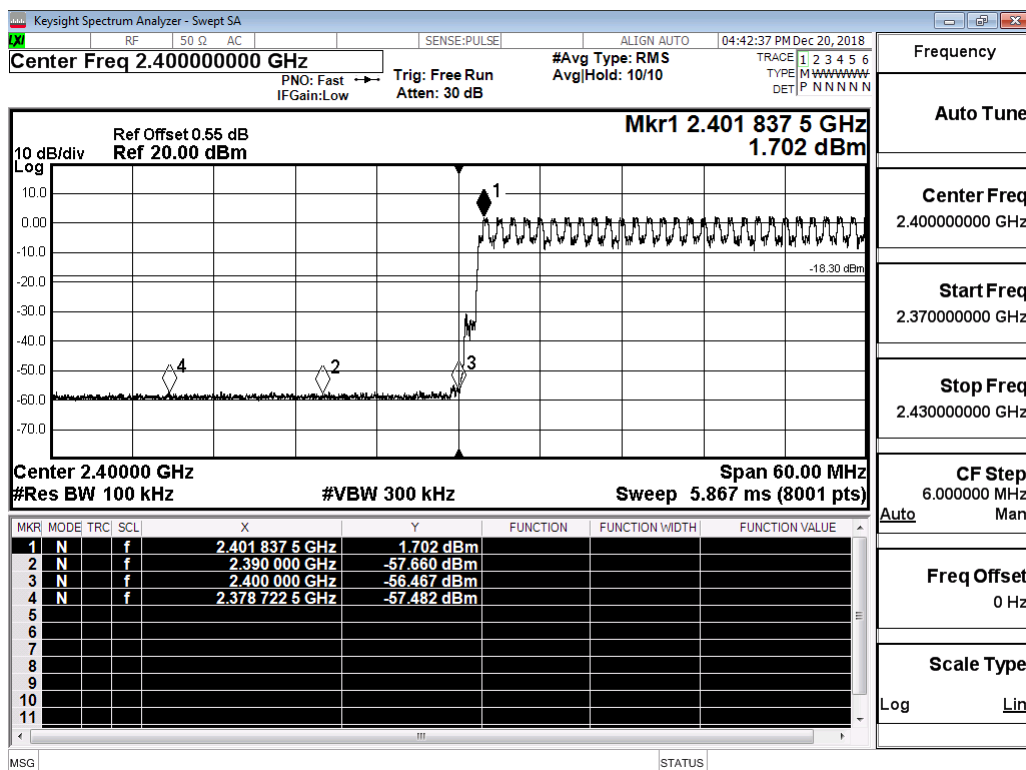
GFSK/HCH/Hop



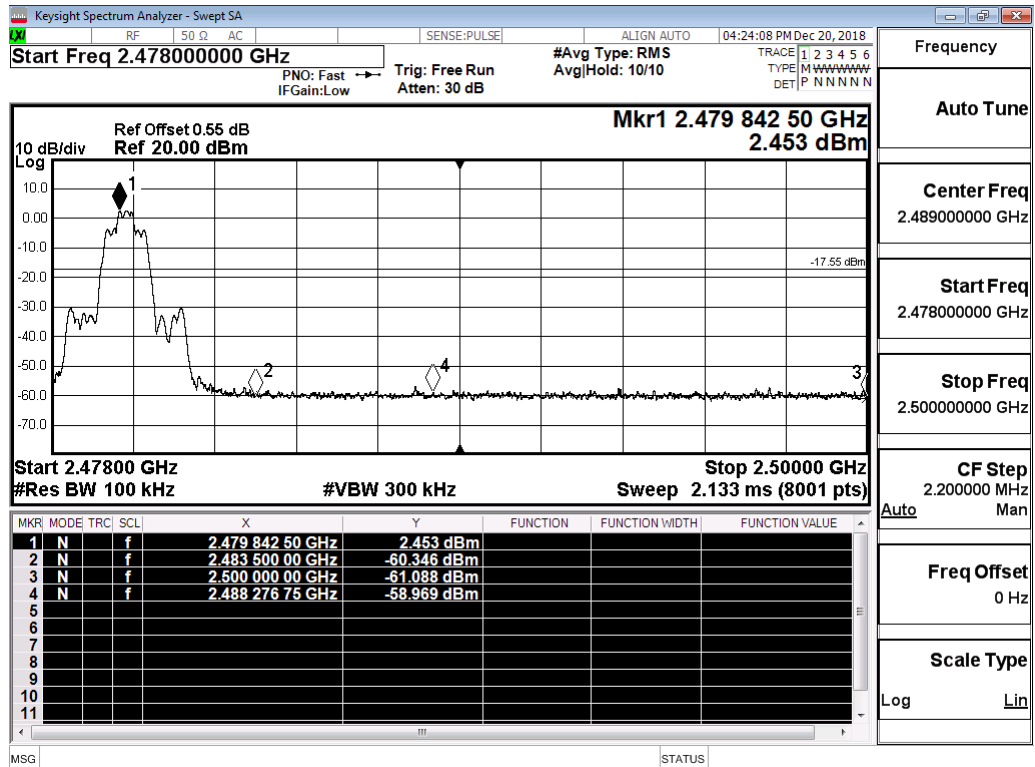
$\pi/4$ DQPSK/LCH/No
Hop



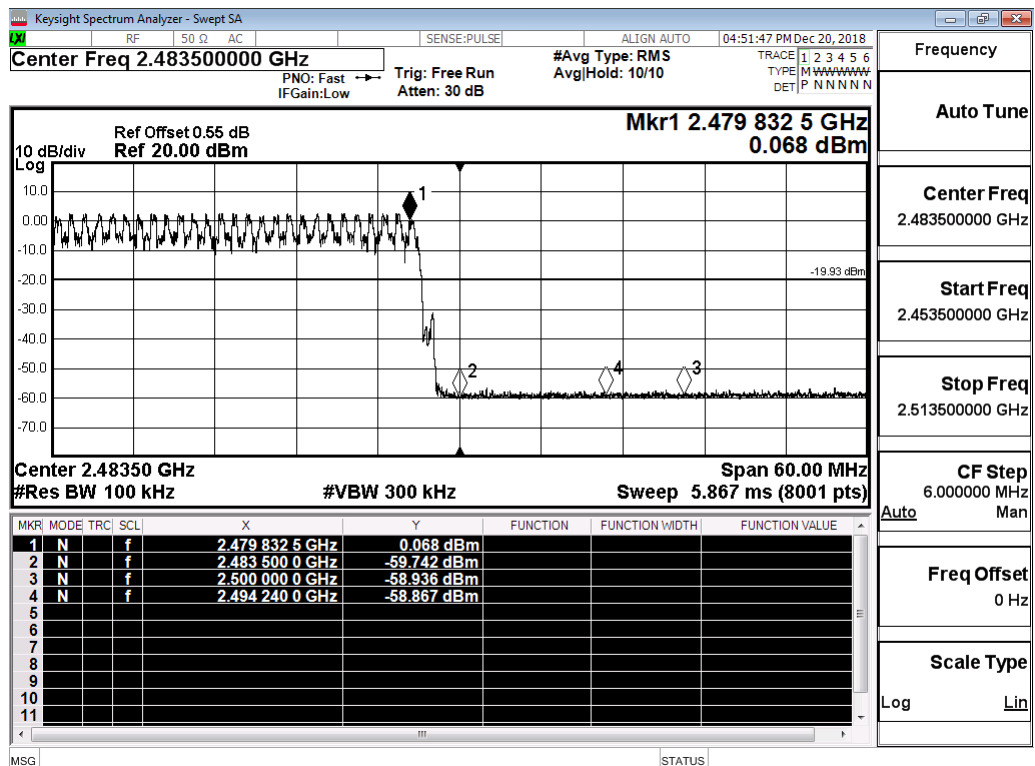
$\pi/4$ DQPSK/LCH/Hop



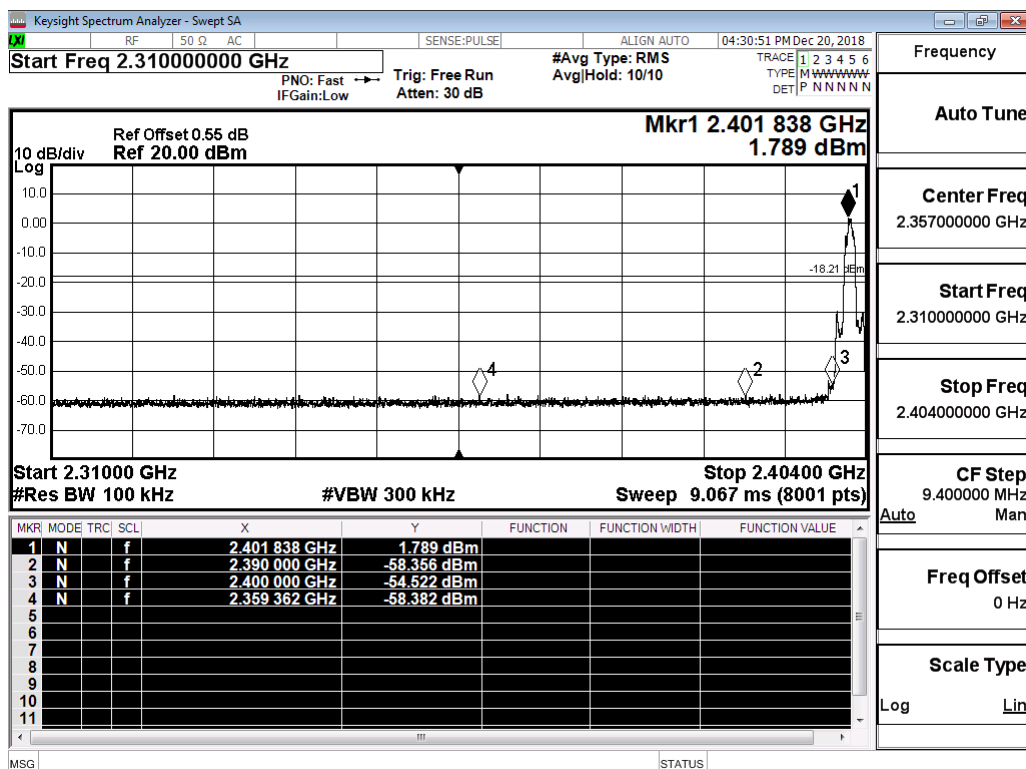
$\pi/4$ DQPSK/HCH/No
Hop



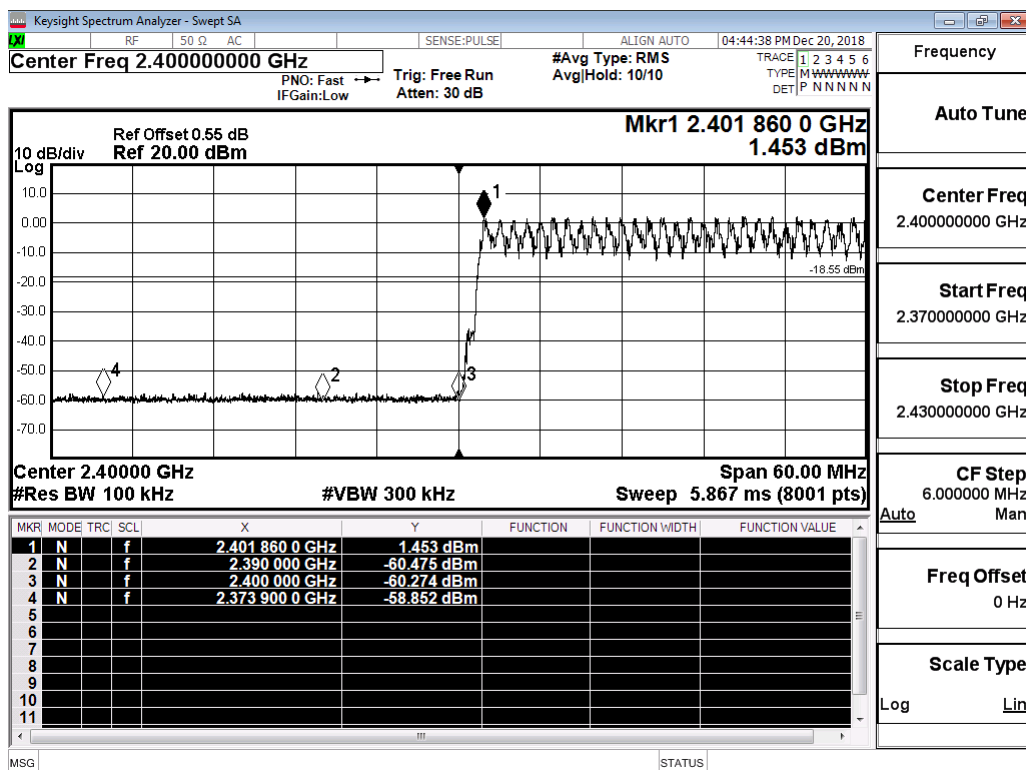
$\pi/4$ DQPSK/HCH/Hop



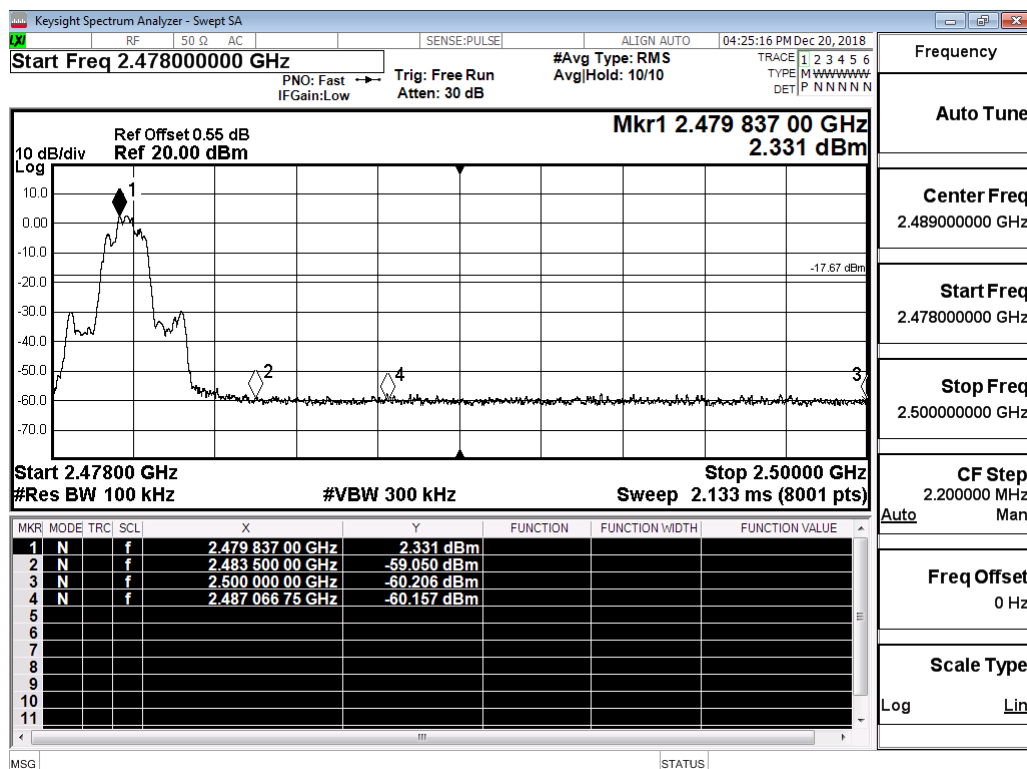
8DPSK/LCH/No Hop



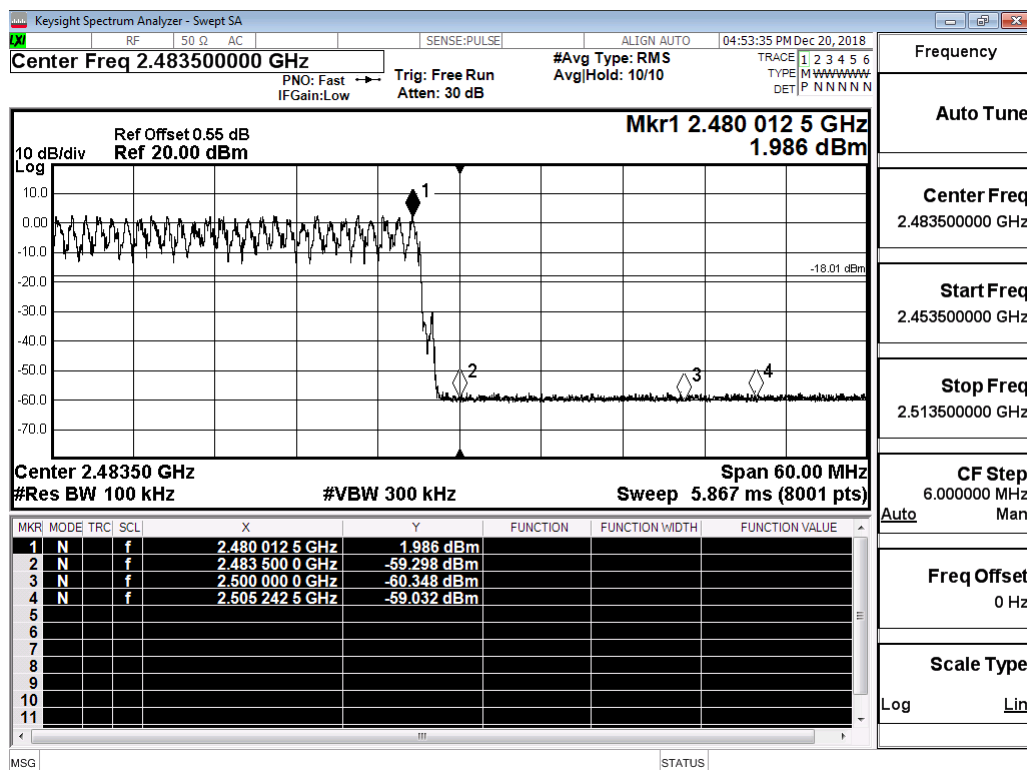
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



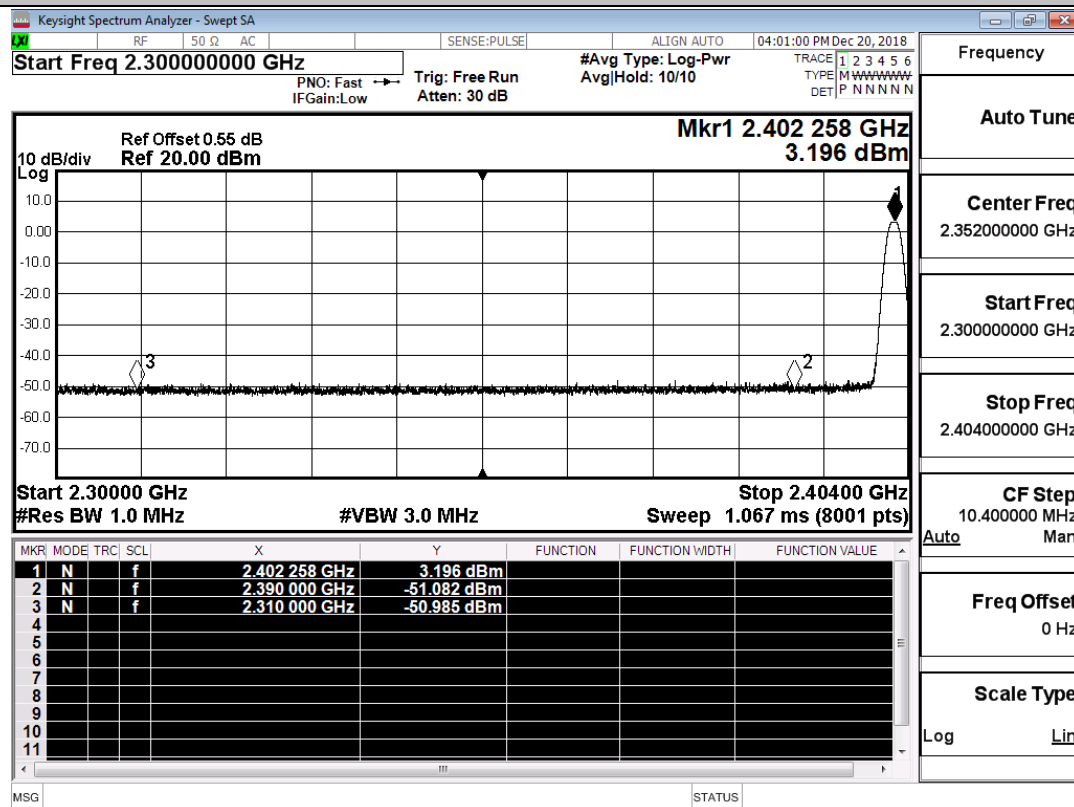
8DPSK/HCH/Hop



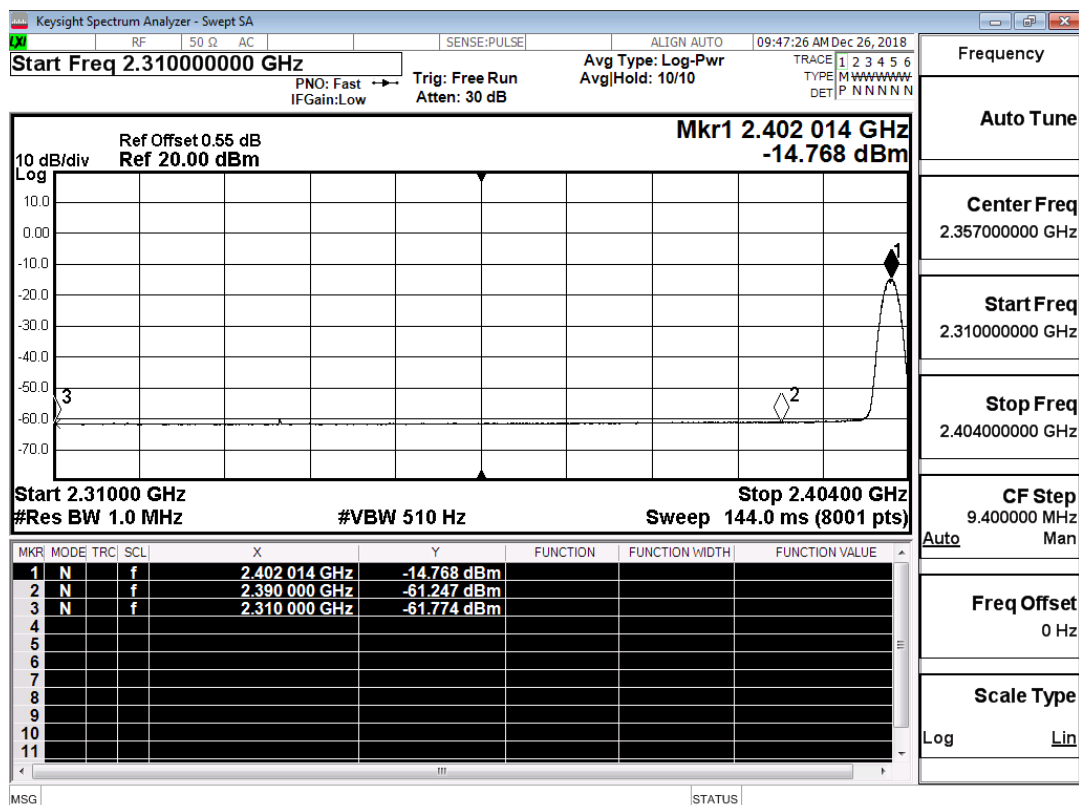
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-50.985	2.0	95.26	46.28	PEAK	74	PASS
	Off	2310.0	-61.774	2.0	95.26	35.49	AV	54	PASS
	Off	2390.0	-51.082	2.0	95.26	46.18	PEAK	74	PASS
	Off	2390.0	-61.247	2.0	95.26	36.01	AV	54	PASS
	Off	2483.5	-49.731	2.0	95.26	47.53	PEAK	74	PASS
	Off	2483.5	-60.441	2.0	95.26	36.82	AV	54	PASS
	Off	2500.0	-49.594	2.0	95.26	47.67	PEAK	74	PASS
	Off	2500.0	-60.817	2.0	95.26	34.44	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-51.293	2.0	95.26	45.97	PEAK	74	PASS
	Off	2310.0	-61.701	2.0	95.26	35.56	AV	54	PASS
	Off	2390.0	-49.733	2.0	95.26	47.53	PEAK	74	PASS
	Off	2390.0	-60.803	2.0	95.26	36.46	AV	54	PASS
	Off	2483.5	-49.108	2.0	95.26	48.15	PEAK	74	PASS
	Off	2483.5	-60.201	2.0	95.26	37.06	AV	54	PASS
	Off	2500.0	-51.165	2.0	95.26	46.10	PEAK	74	PASS
	Off	2500.0	-60.814	2.0	95.26	36.45	AV	54	PASS
8DPSK	Off	2310.0	-50.968	2.0	95.26	46.29	PEAK	74	PASS
	Off	2310.0	-61.479	2.0	95.26	35.78	AV	54	PASS
	Off	2390.0	-50.562	2.0	95.26	46.70	PEAK	74	PASS
	Off	2390.0	-61.144	2.0	95.26	36.12	AV	54	PASS
	Off	2483.5	-48.950	2.0	95.26	48.31	PEAK	74	PASS
	Off	2483.5	-59.932	2.0	95.26	37.33	AV	54	PASS
	Off	2500.0	-48.987	2.0	95.26	48.27	PEAK	74	PASS
	Off	2500.0	-60.893	2.0	95.26	36.37	AV	54	PASS

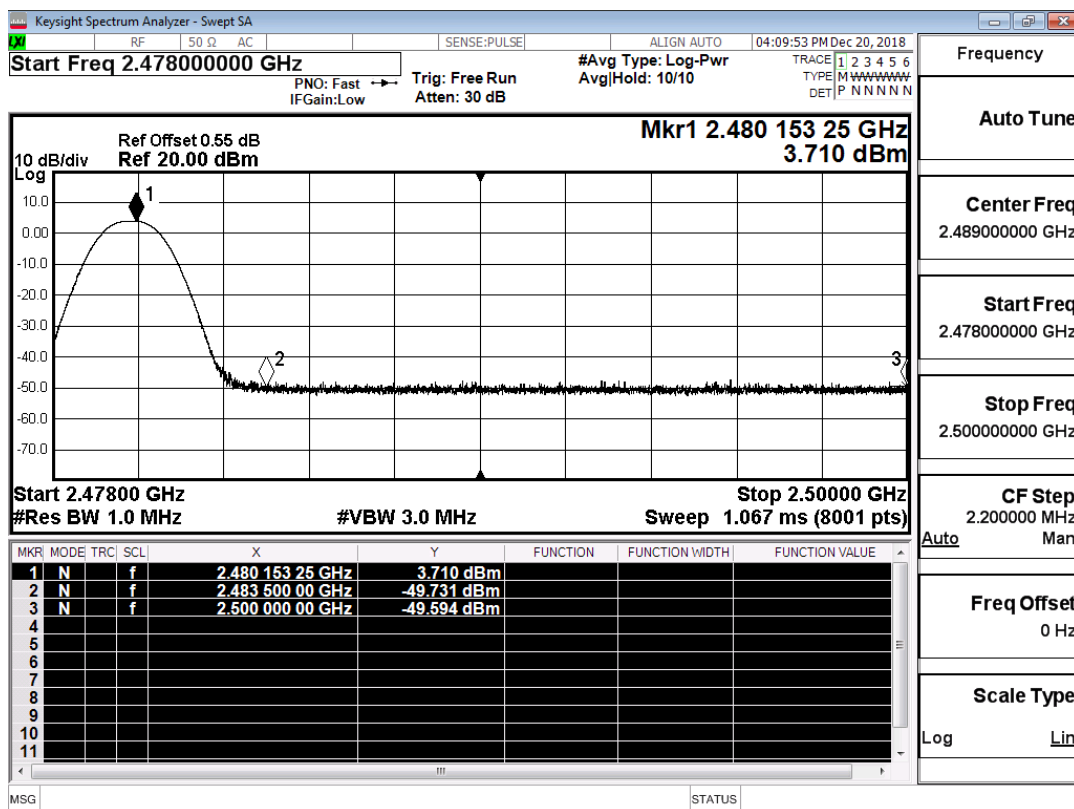
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



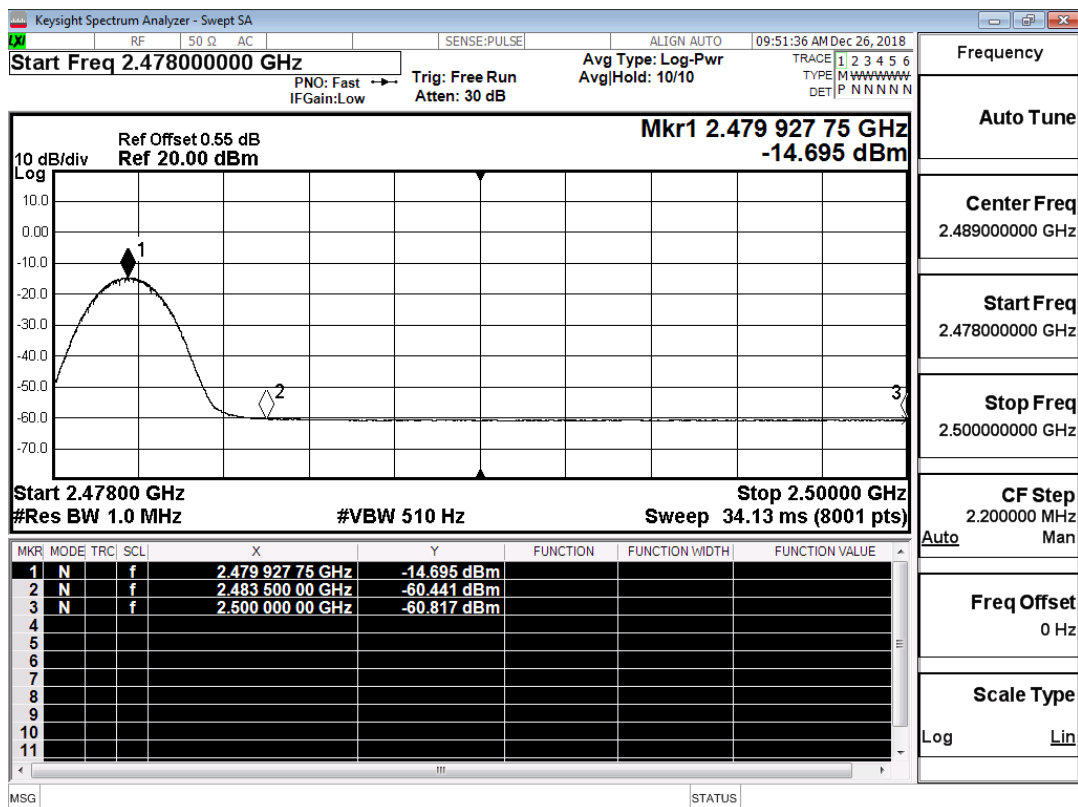
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)



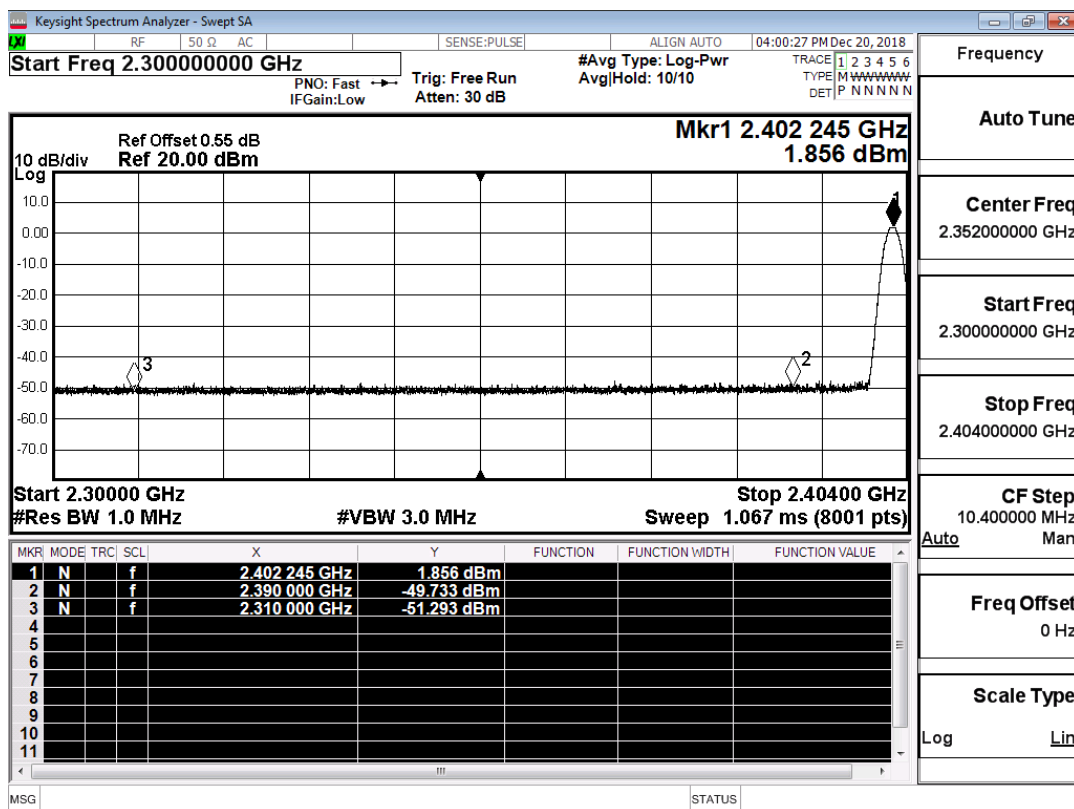
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



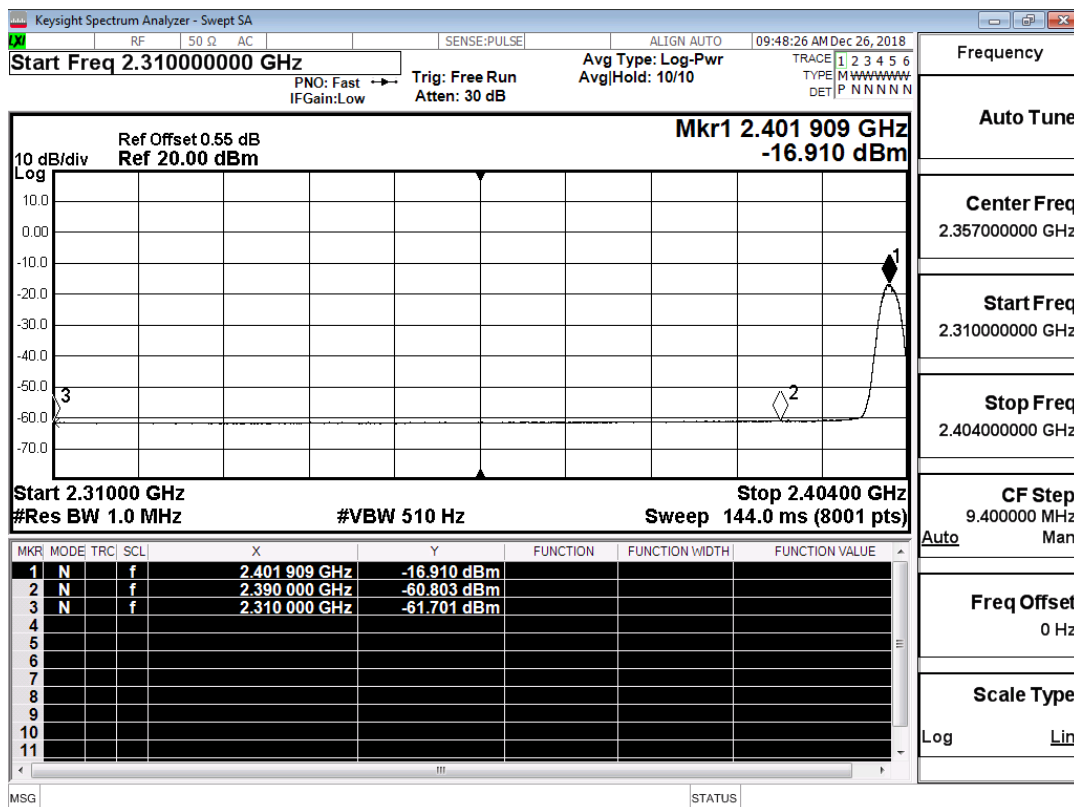
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



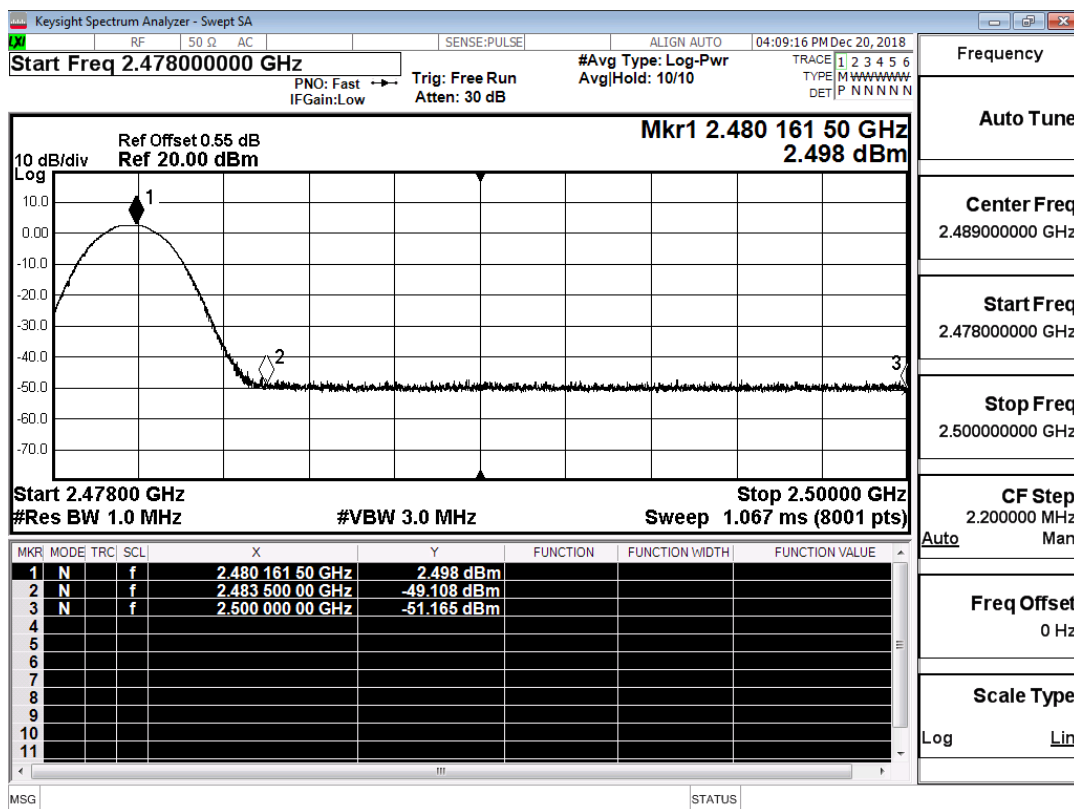
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



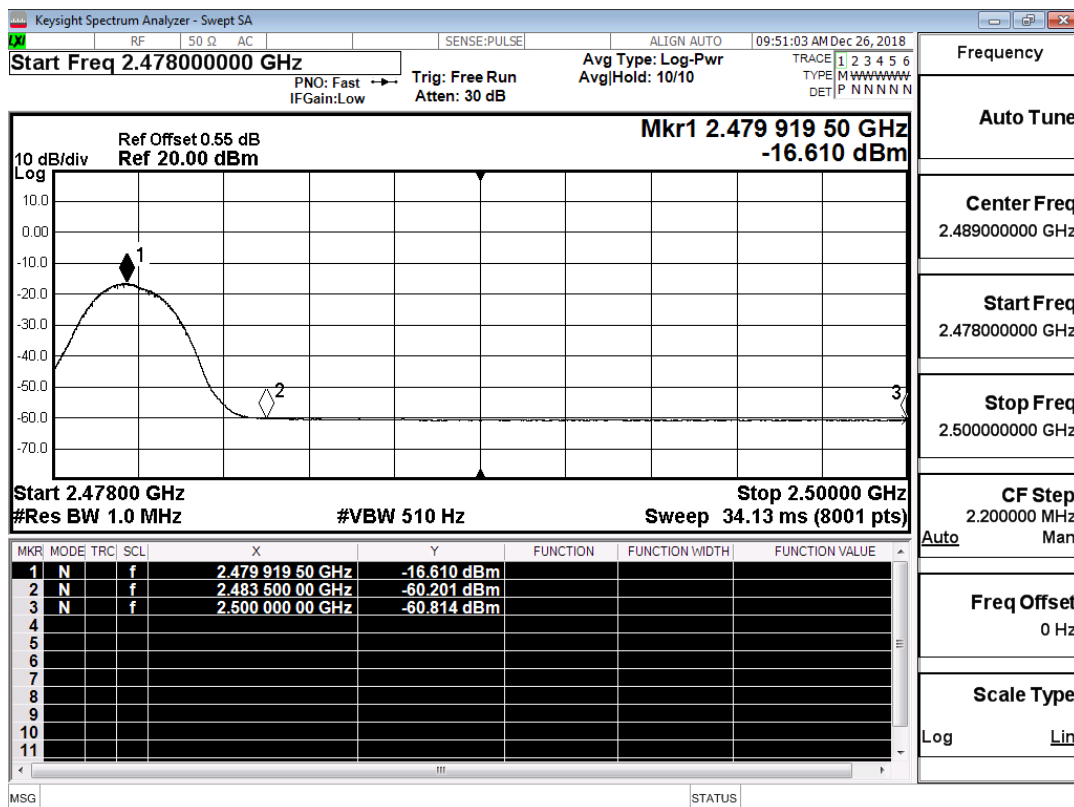
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



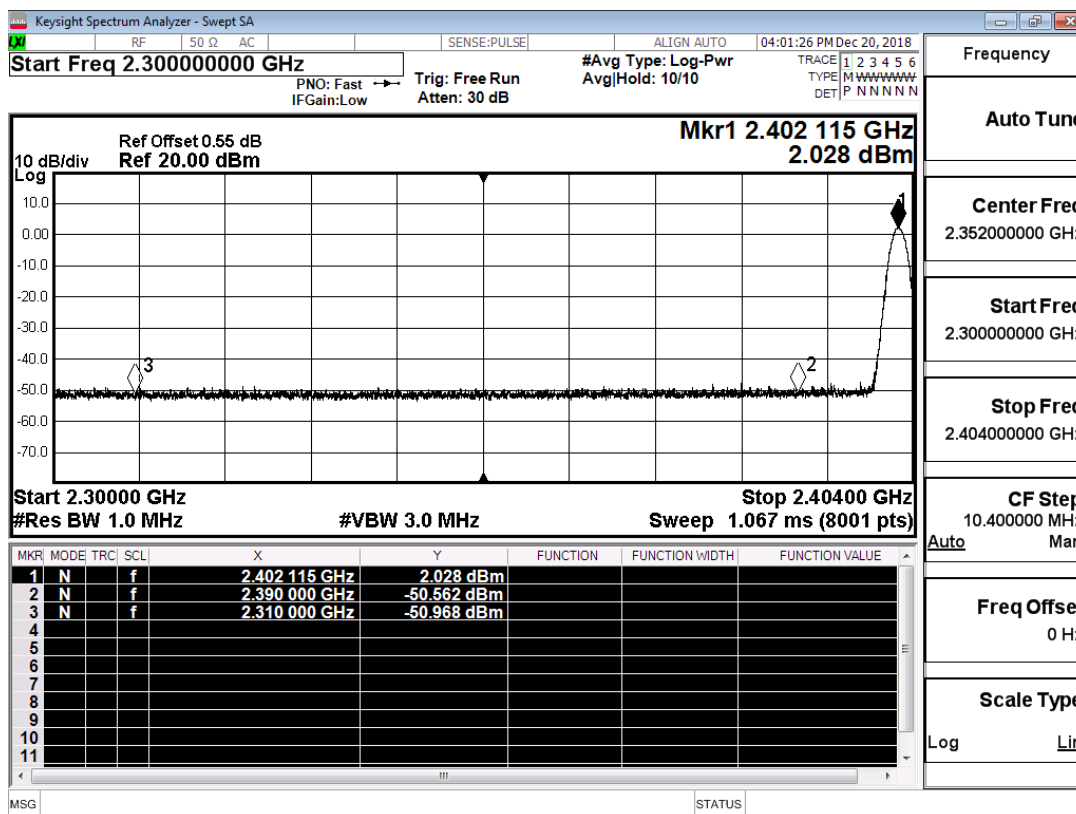
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



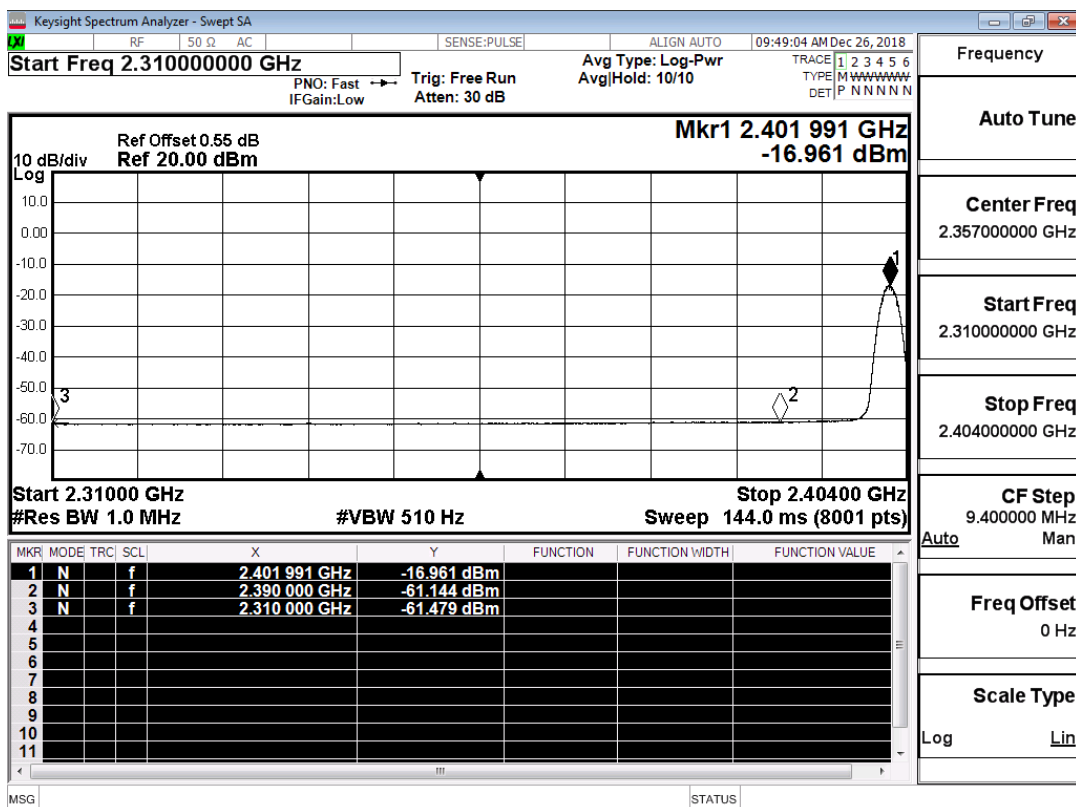
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



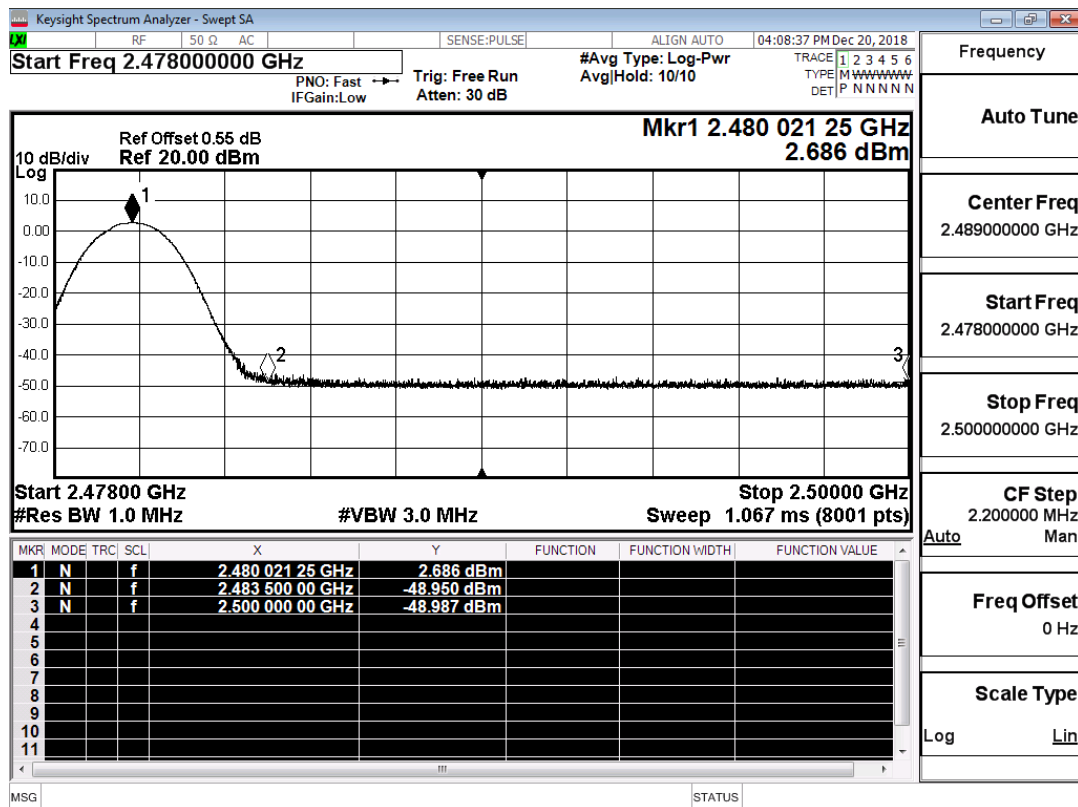
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

