

Environmental Conditions

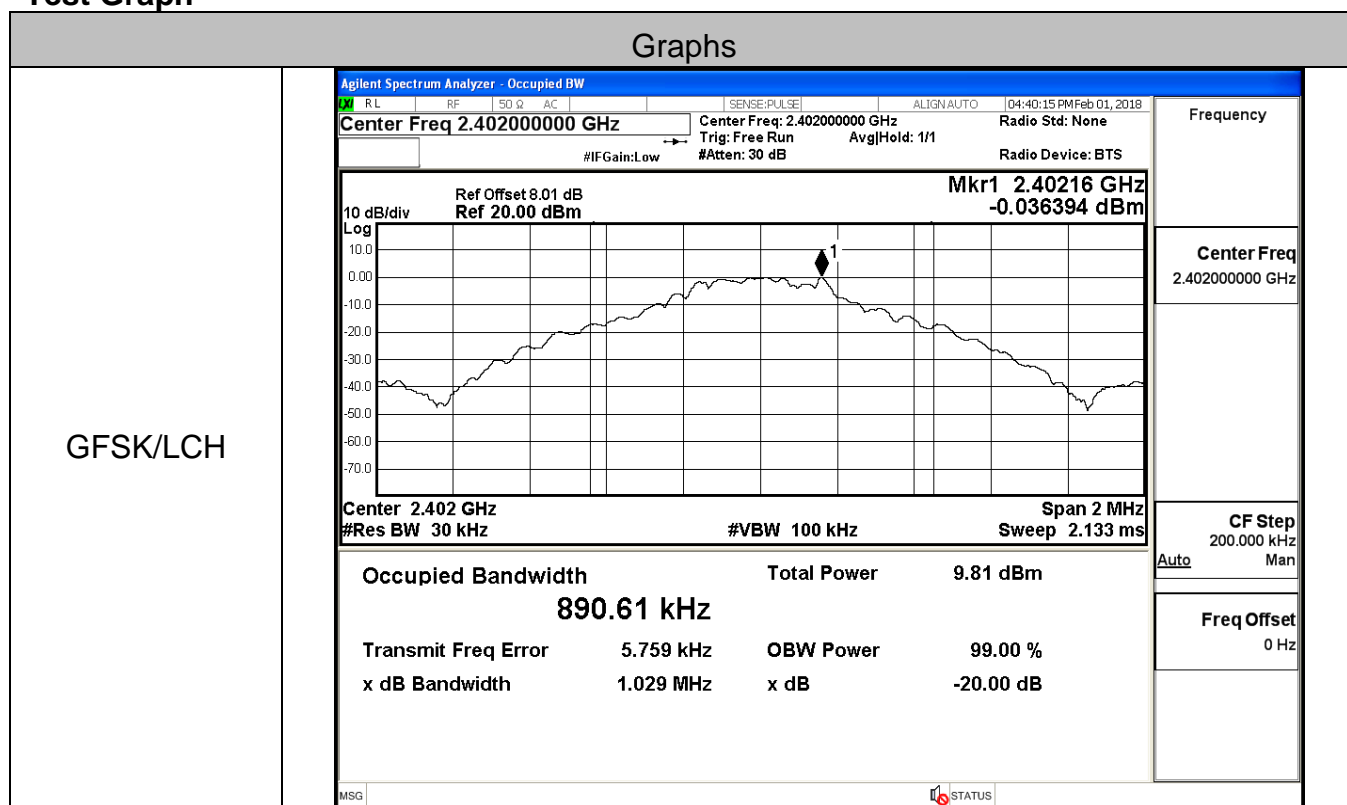
Temperature:	23.1 °C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom Liu

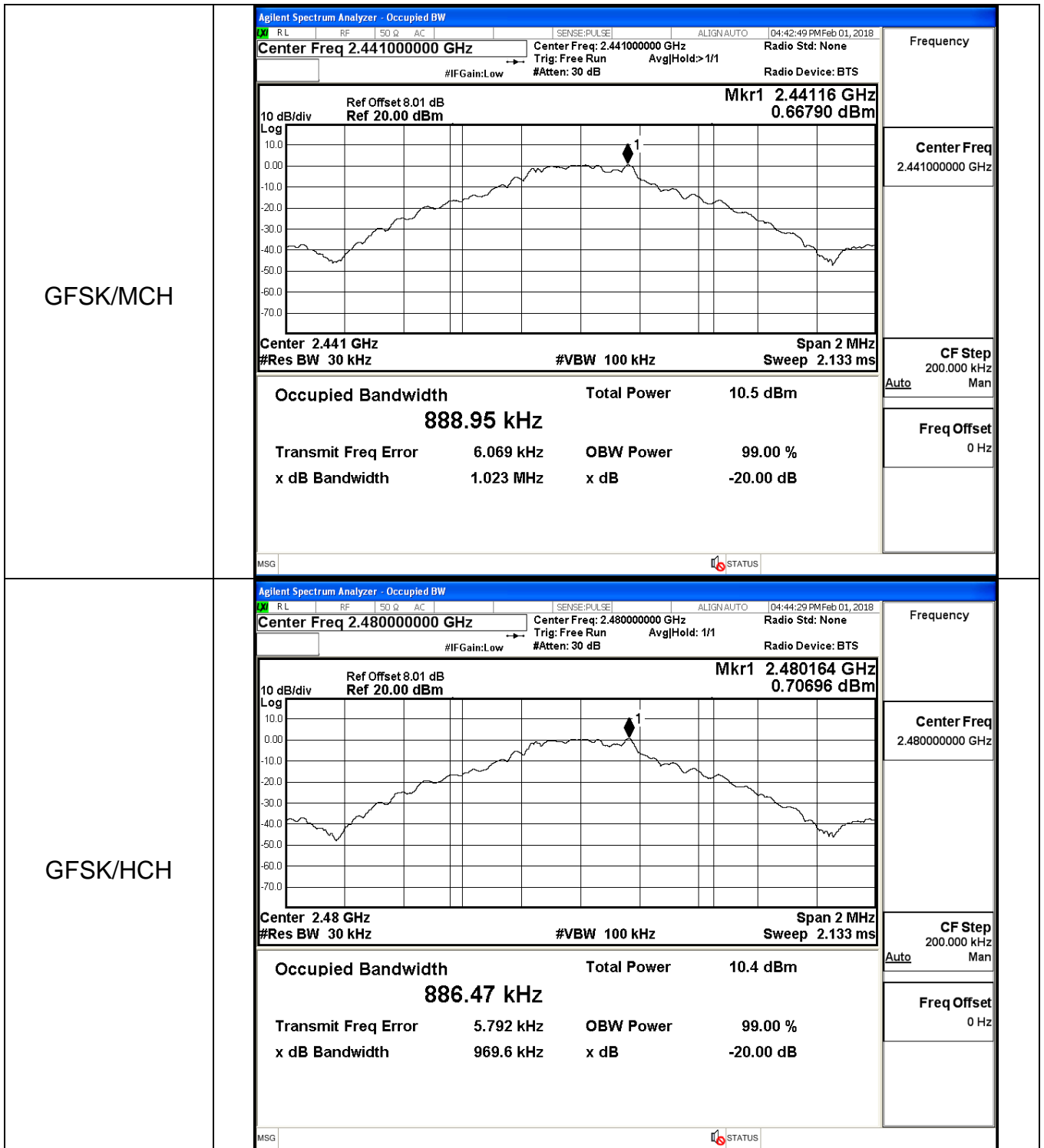
Appendix A): 20dB Bandwidth

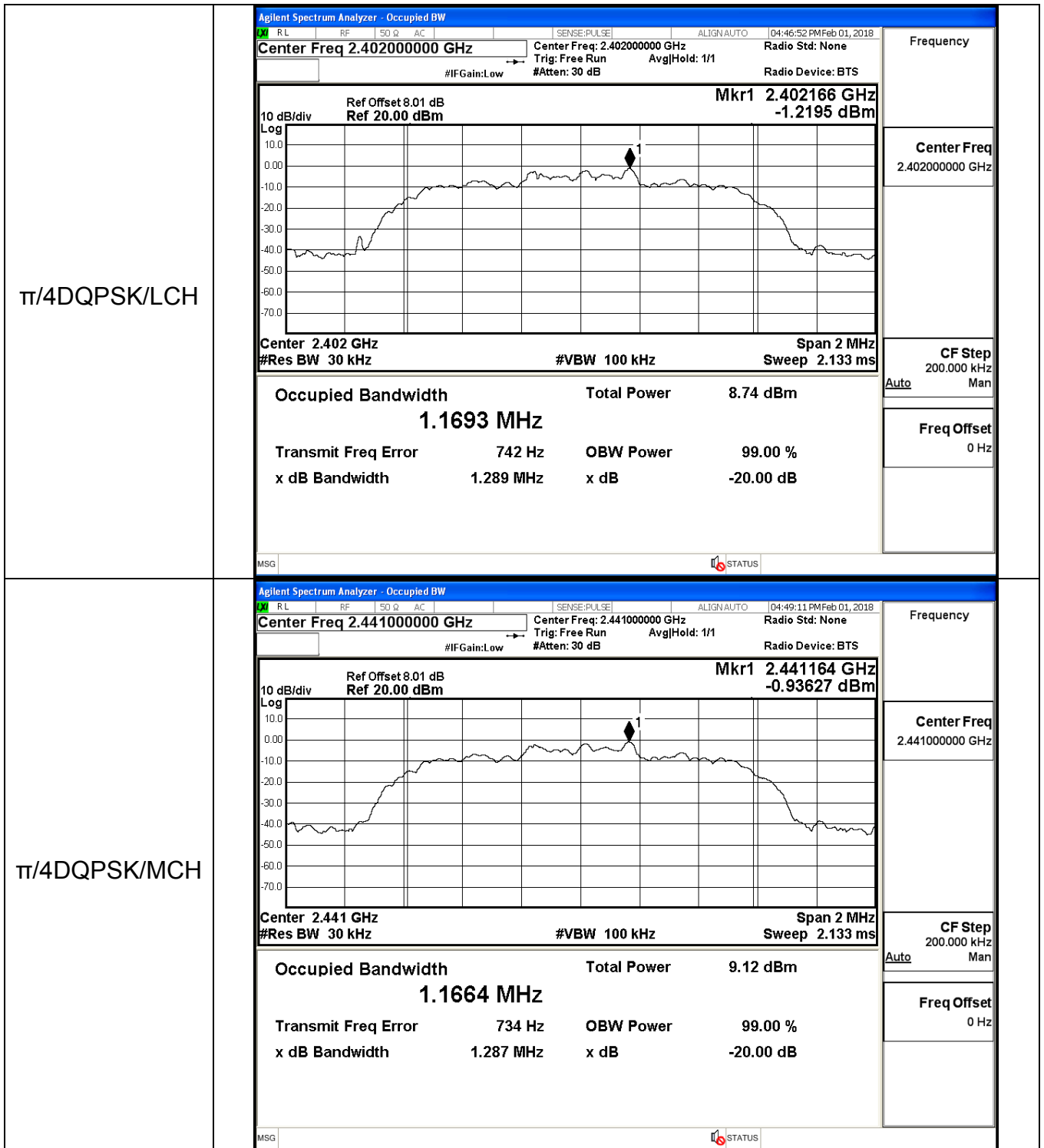
Test Result

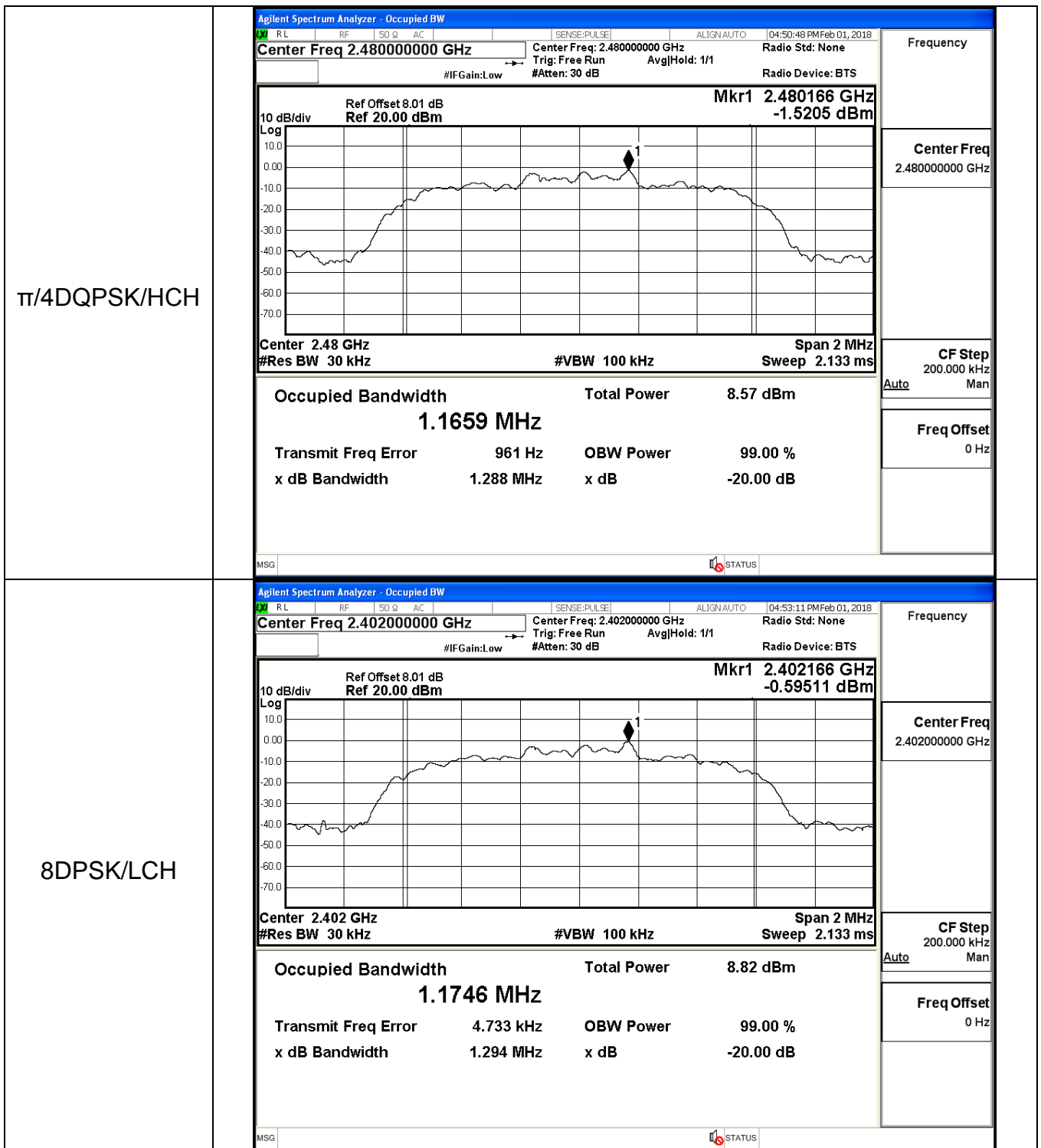
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.029	/	PASS
GFSK	MCH	1.023	/	PASS
GFSK	HCH	0.9696	/	PASS
$\pi/4$ DQPSK	LCH	1.289	/	PASS
$\pi/4$ DQPSK	MCH	1.287	/	PASS
$\pi/4$ DQPSK	HCH	1.288	/	PASS
8DPSK	LCH	1.294	/	PASS
8DPSK	MCH	1.291	/	PASS
8DPSK	HCH	1.294	/	PASS

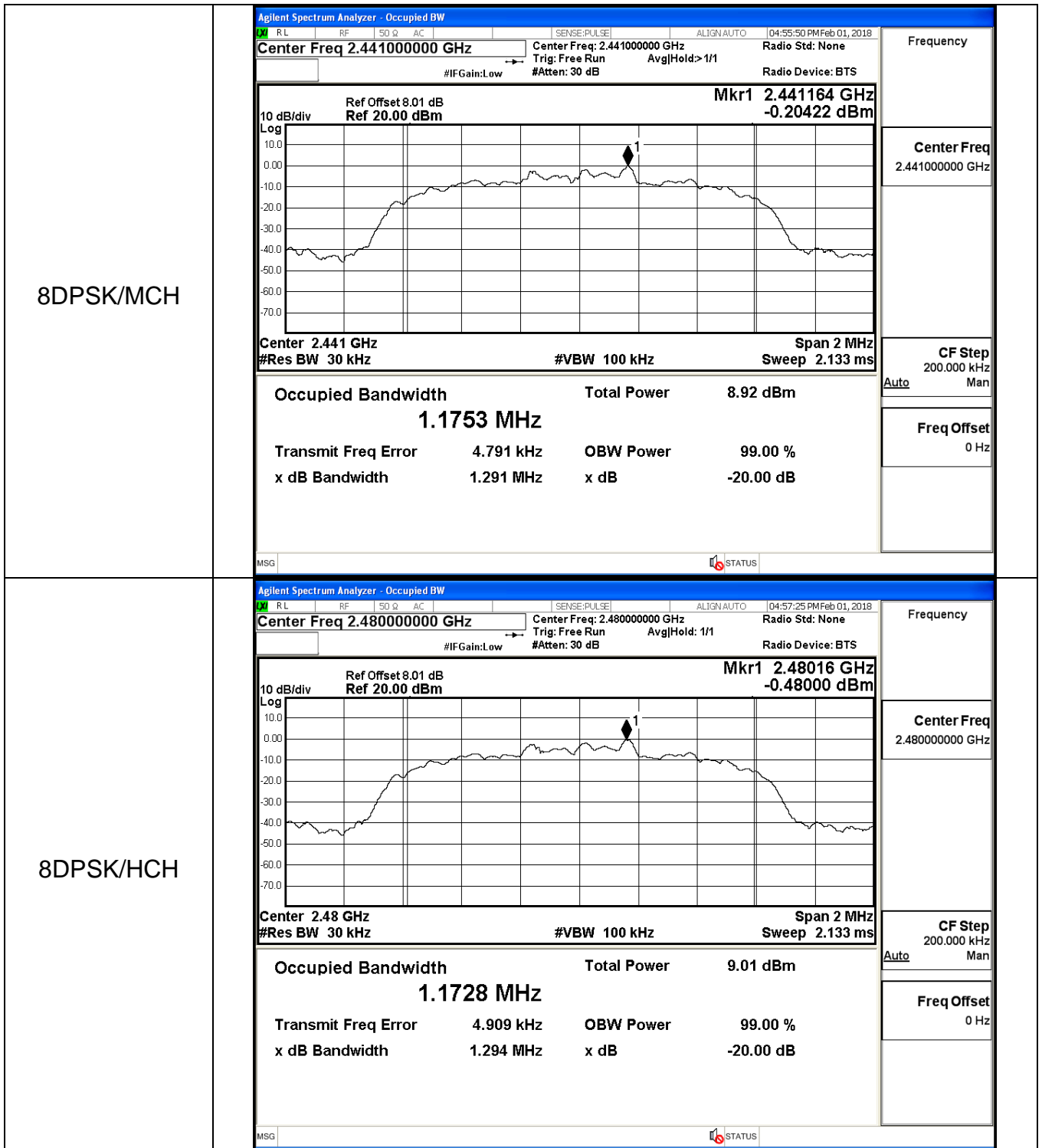
Test Graph









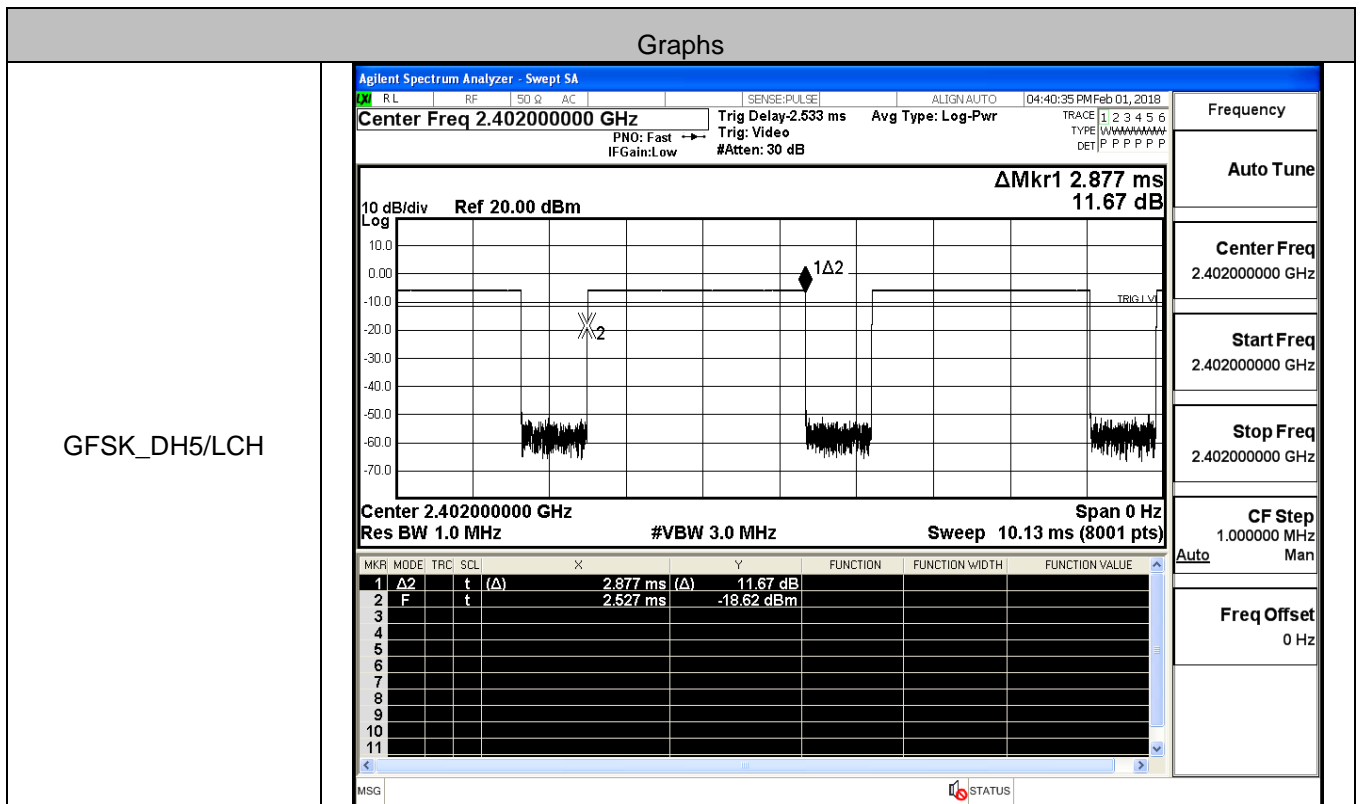


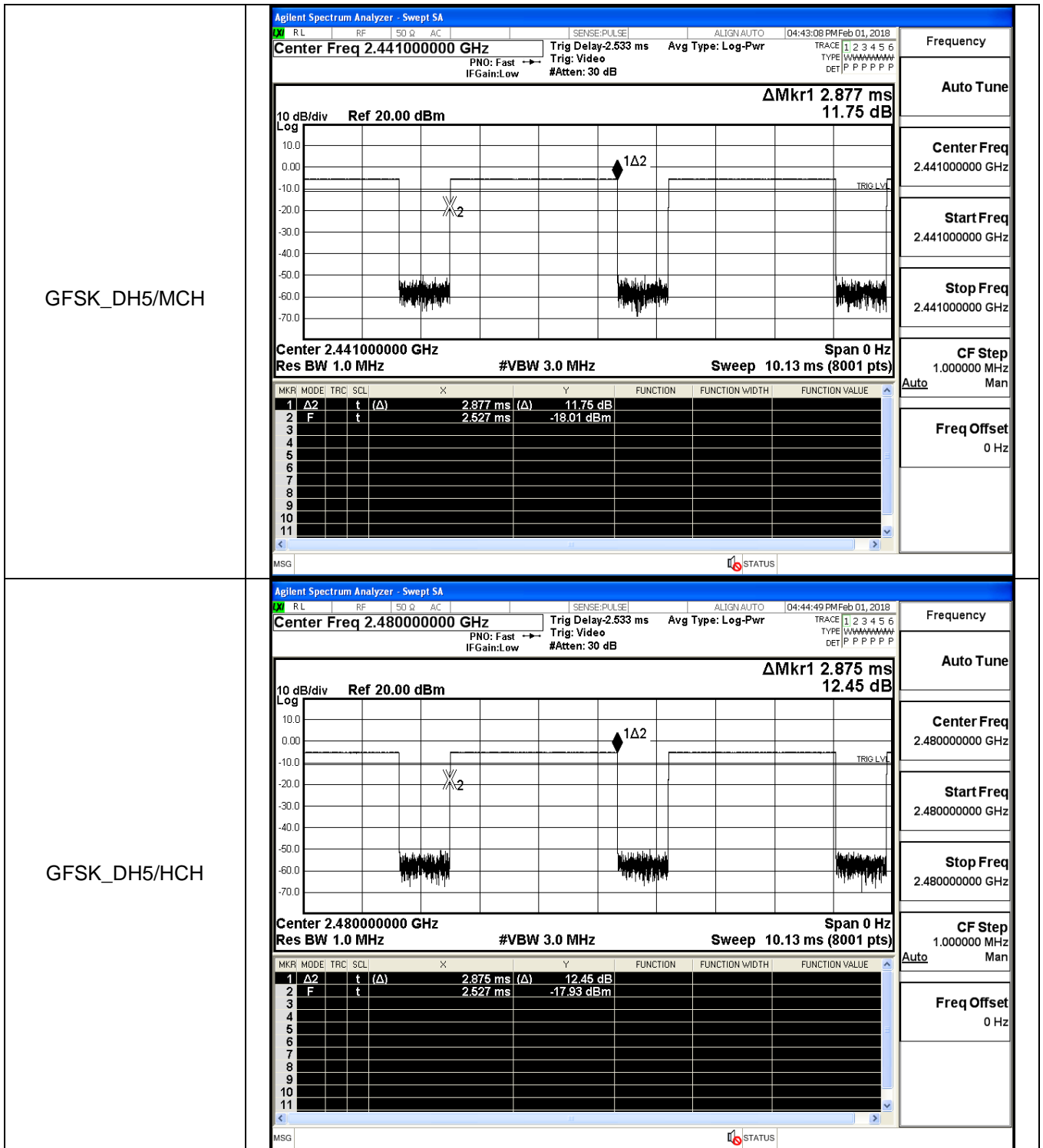
Appendix B): Dwell Time

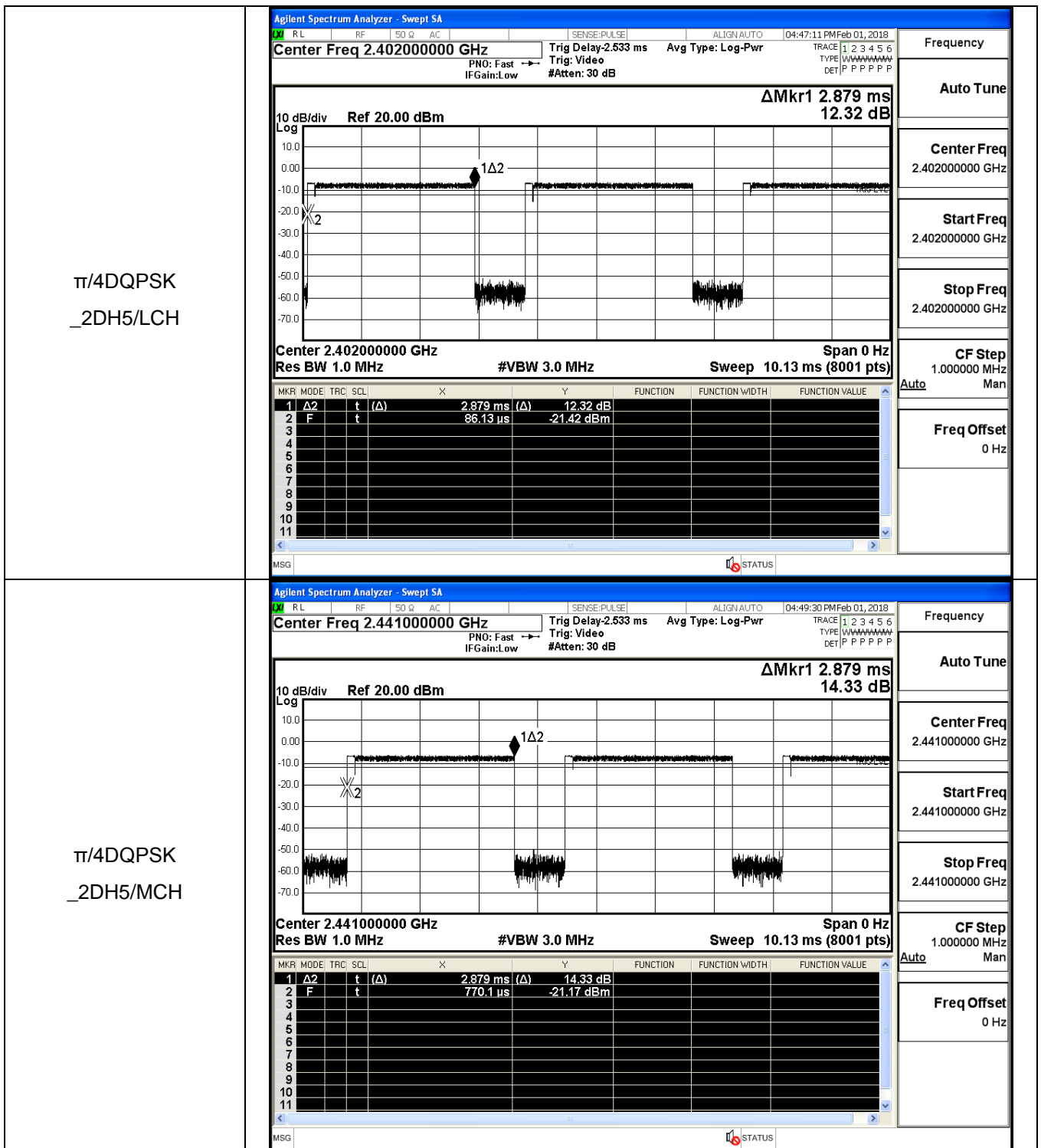
Result Table

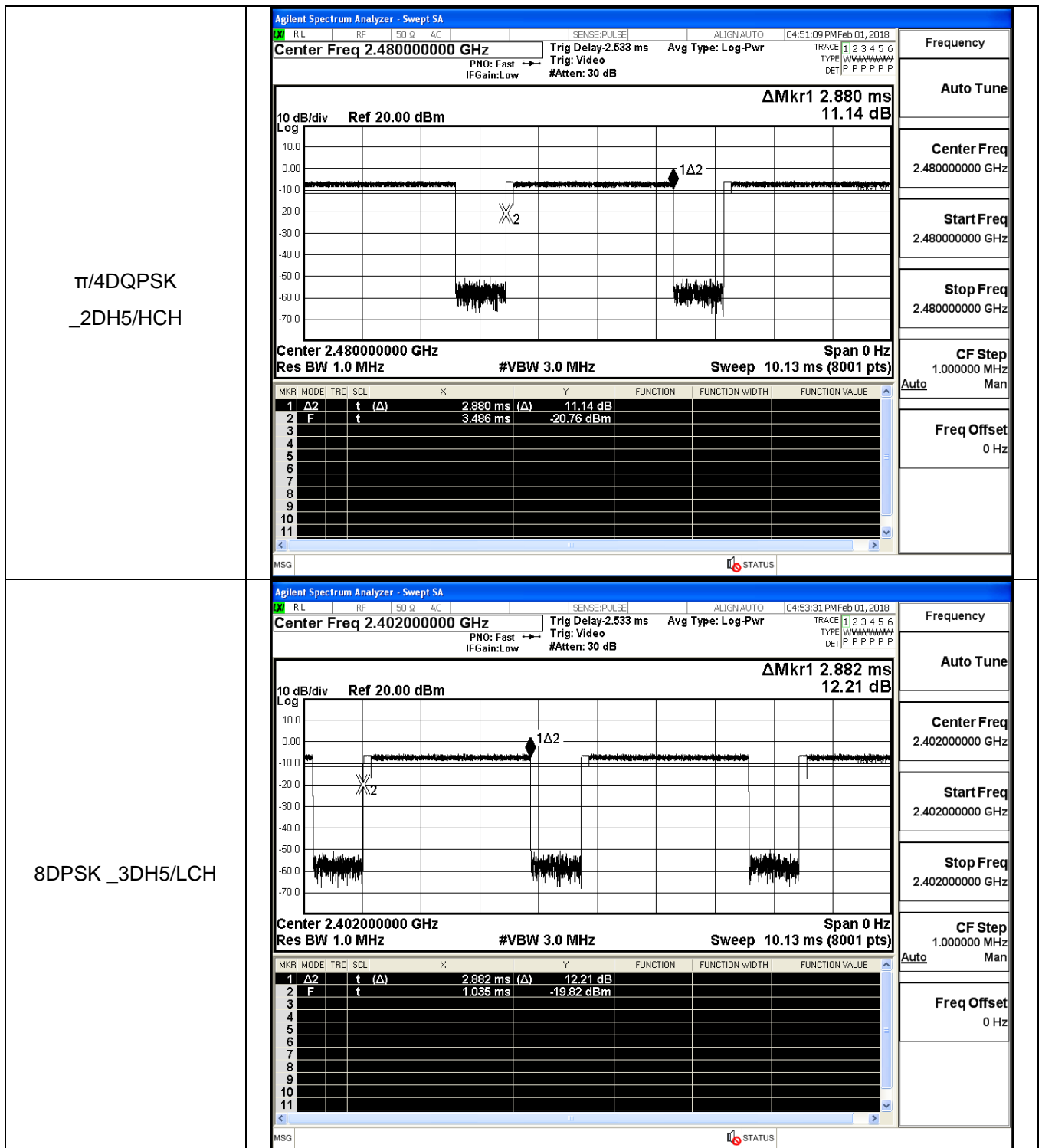
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	MCH	2.88	106.7	0.307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

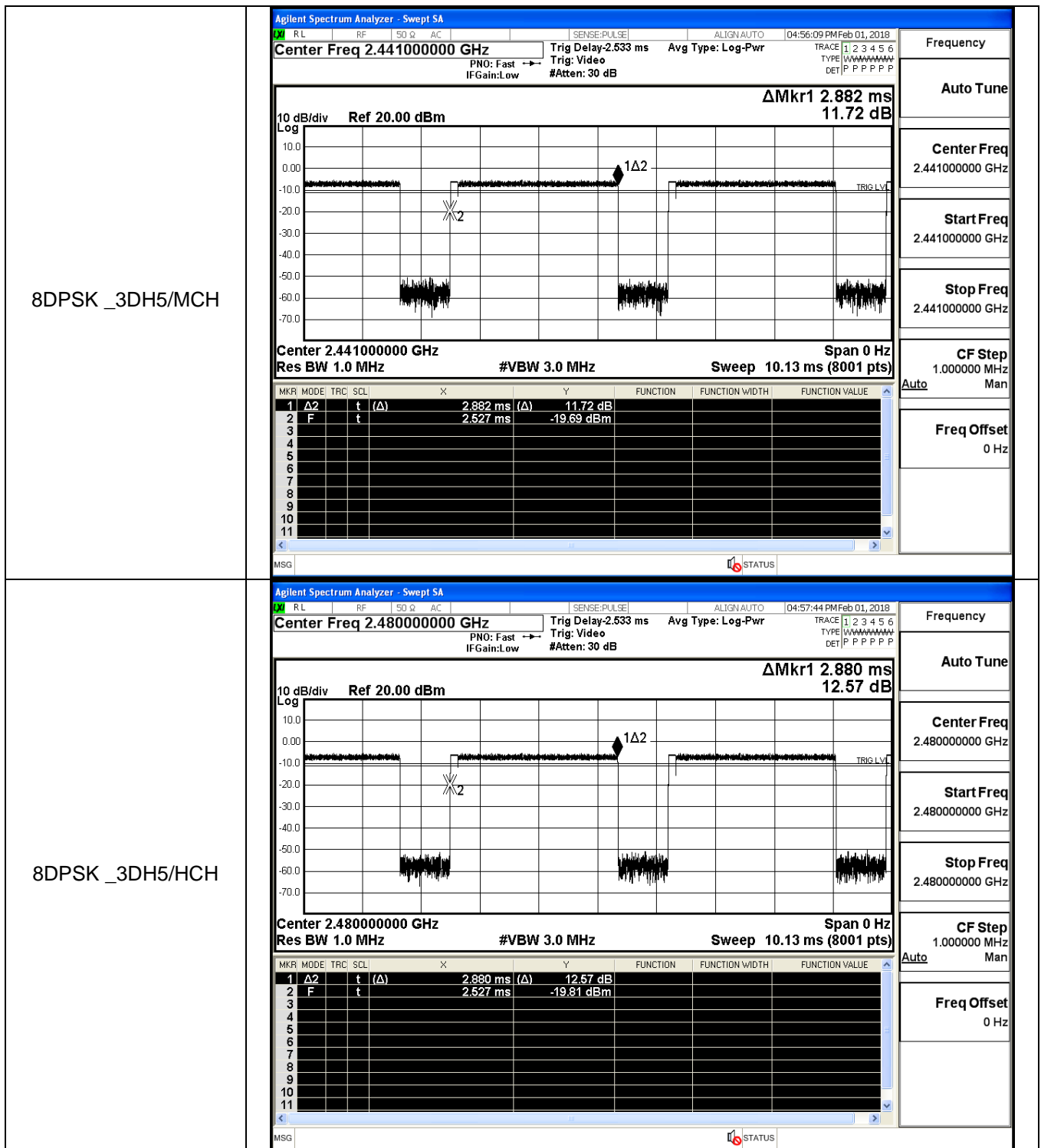
Test Graph









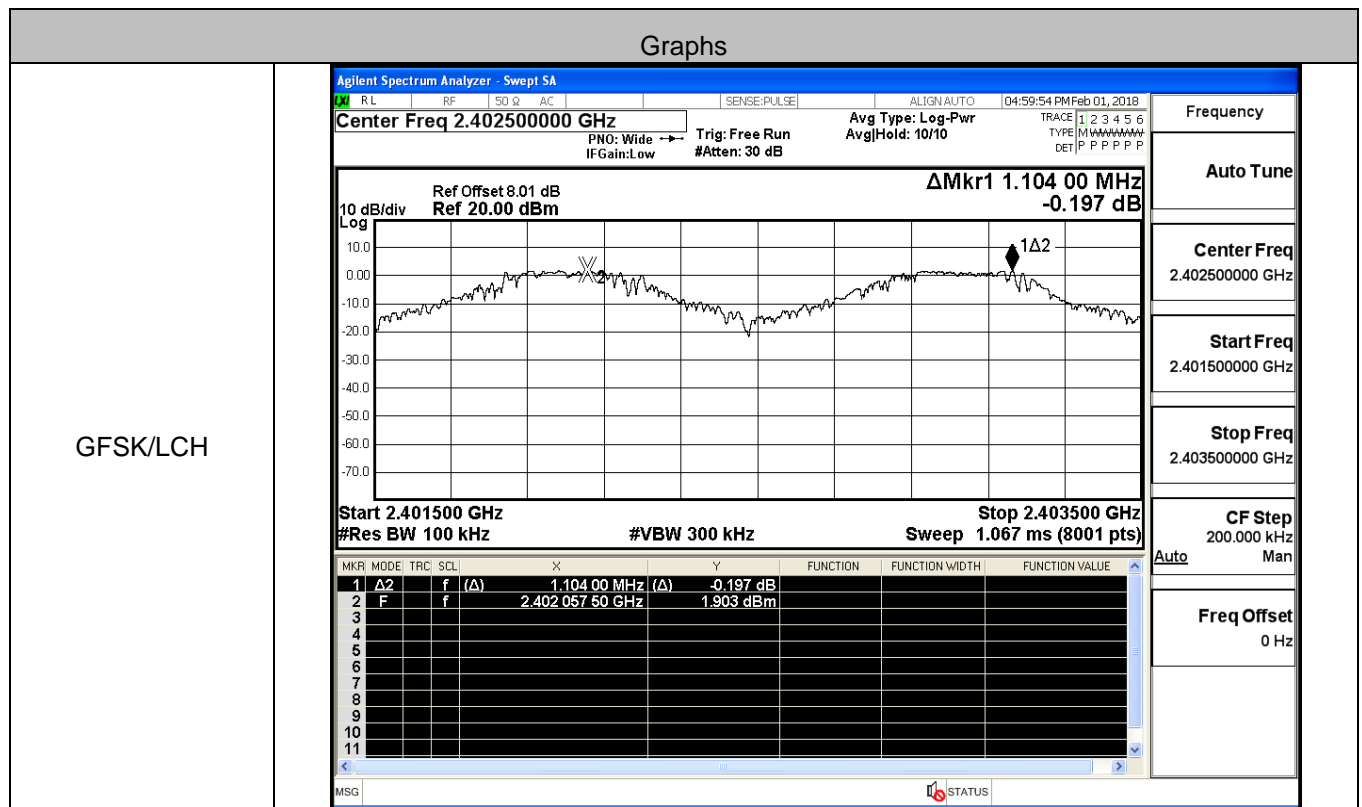


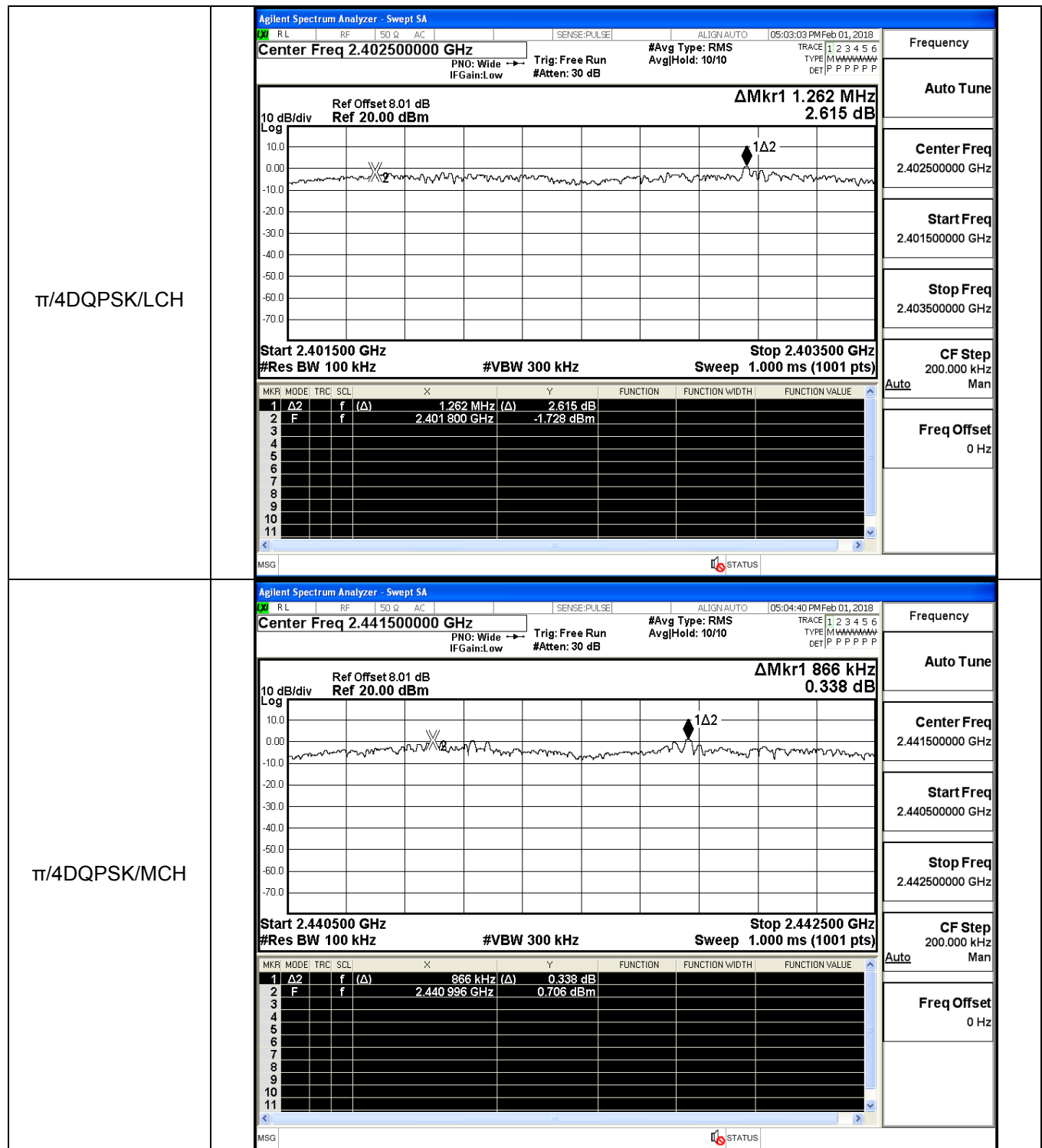
Appendix C): Carrier Frequency Separation

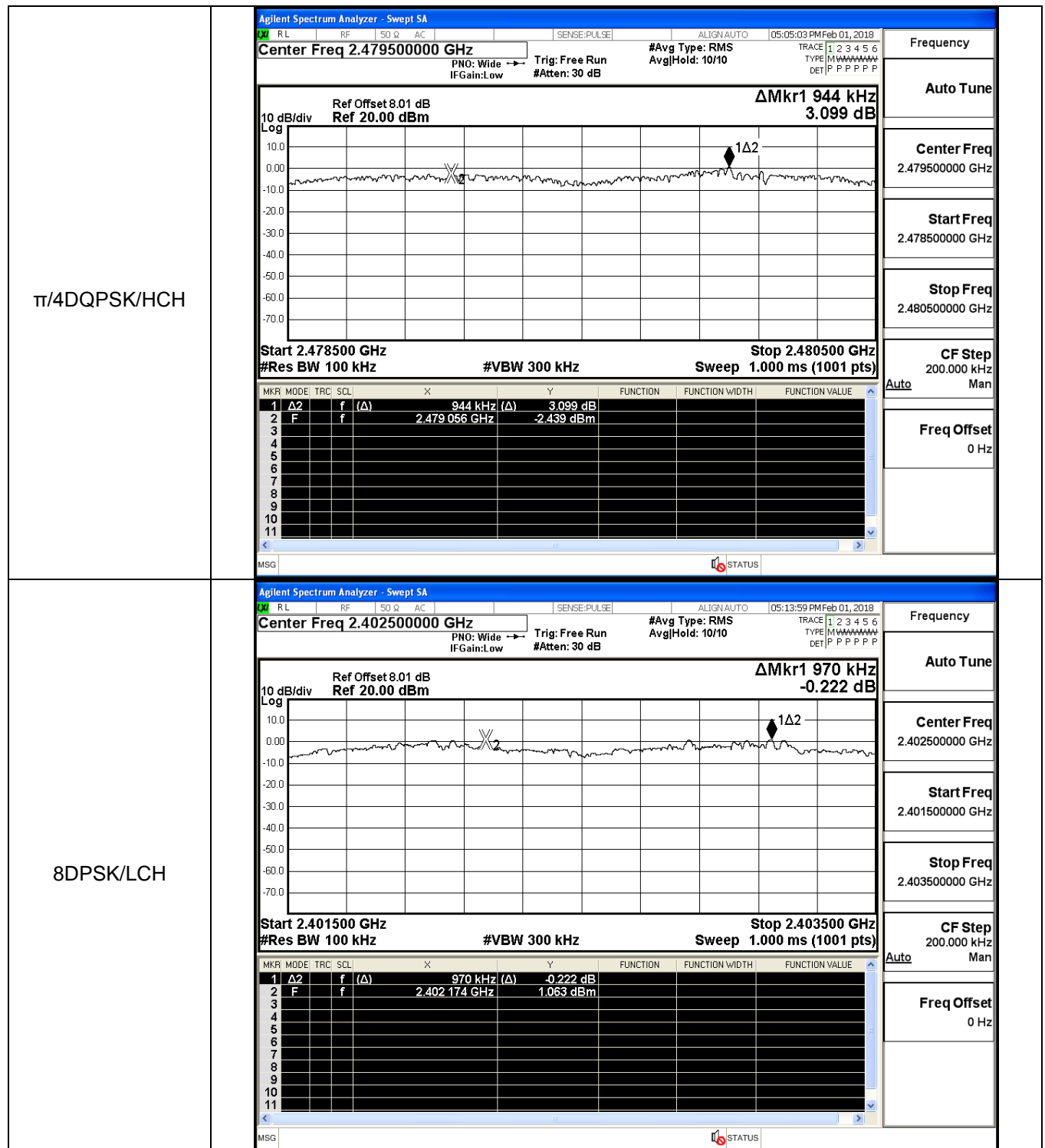
Result Table

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit[MHz]	Verdict
GFSK	LCH	1.104	0.686	PASS
GFSK	MCH	1.088	0.682	PASS
GFSK	HCH	0.890	0.646	PASS
$\pi/4$ DQPSK	LCH	1.262	0.859	PASS
$\pi/4$ DQPSK	MCH	0.866	0.858	PASS
$\pi/4$ DQPSK	HCH	0.944	0.859	PASS
8DPSK	LCH	0.970	0.863	PASS
8DPSK	MCH	1.050	0.861	PASS
8DPSK	HCH	1.296	0.863	PASS

Test Graph



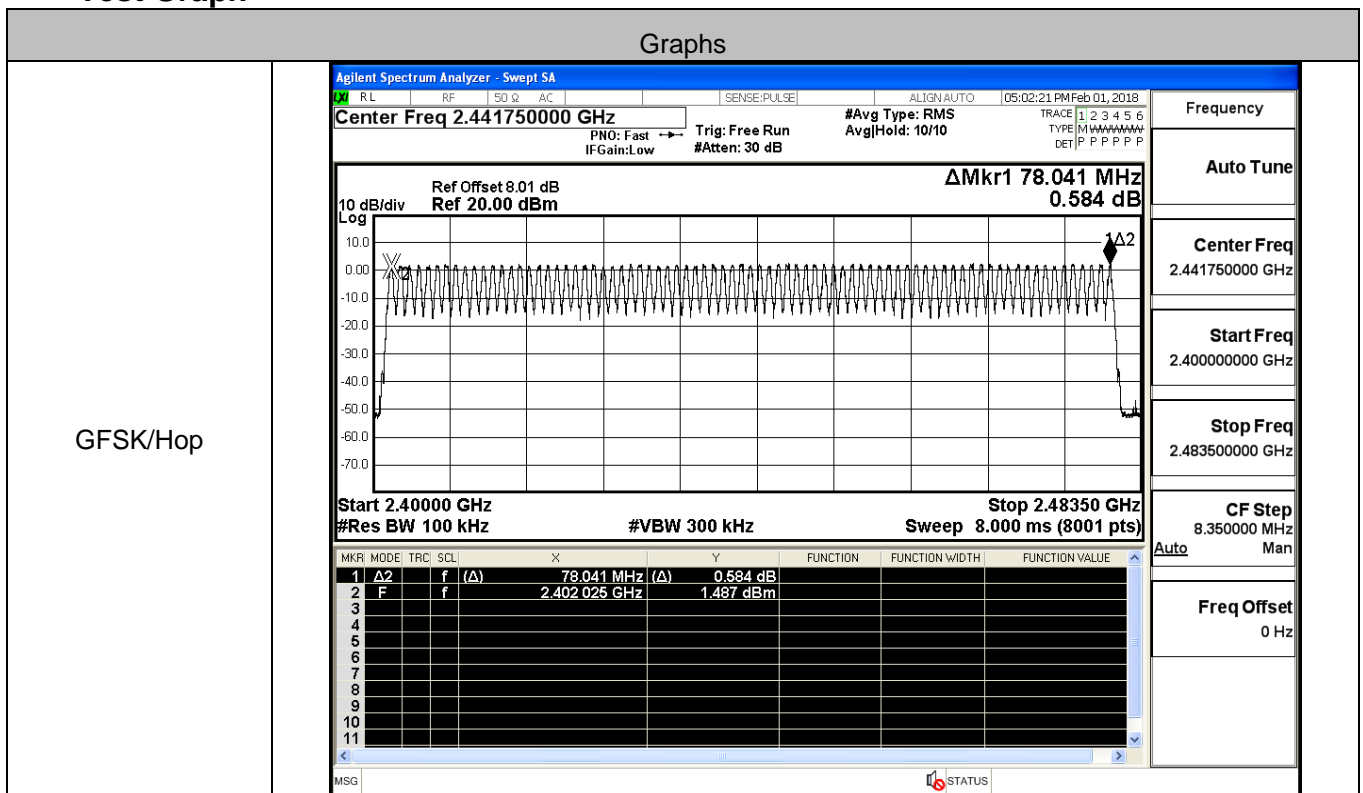


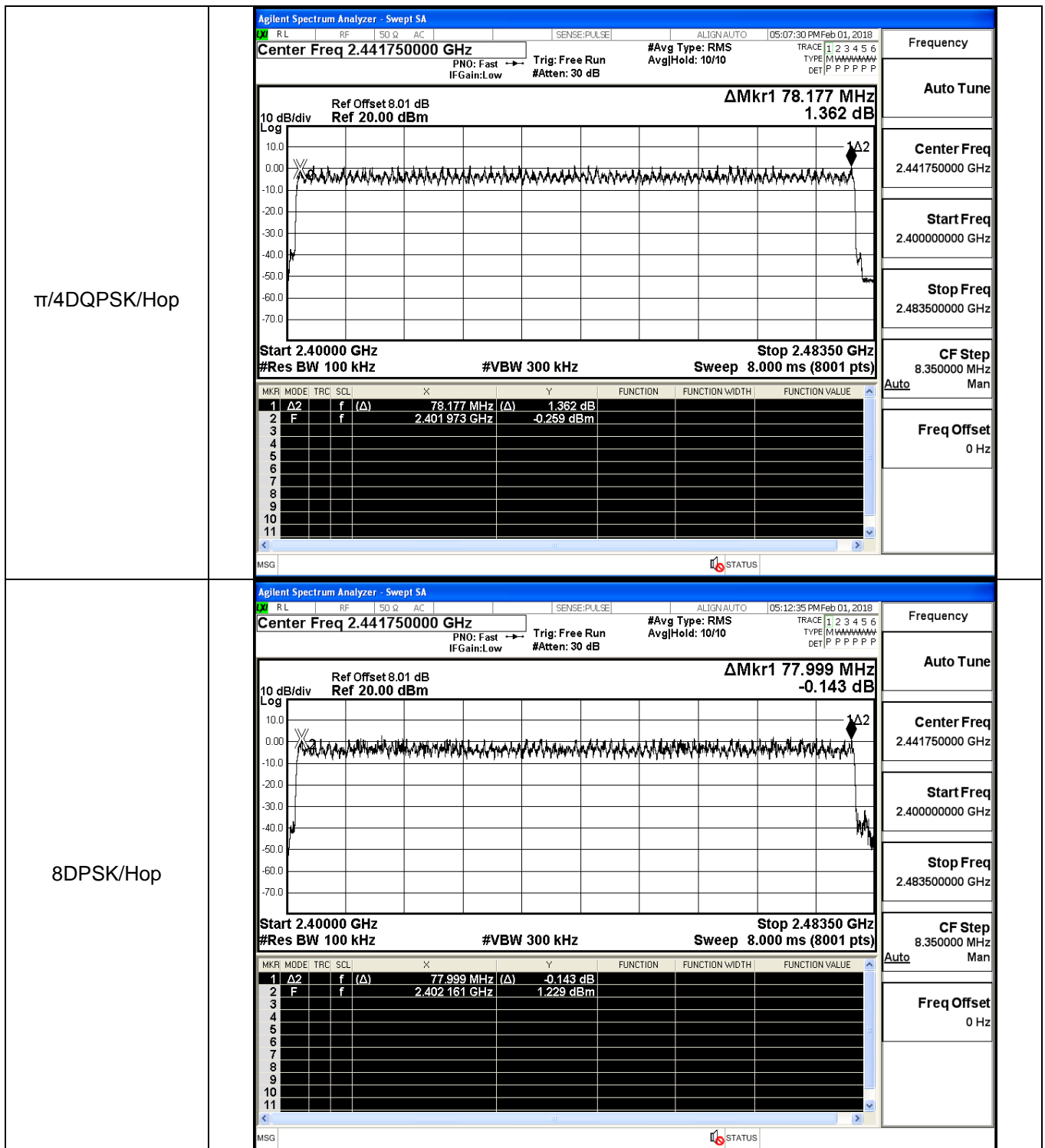


Appendix D): Hopping Channel Number Result Table

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 Graph

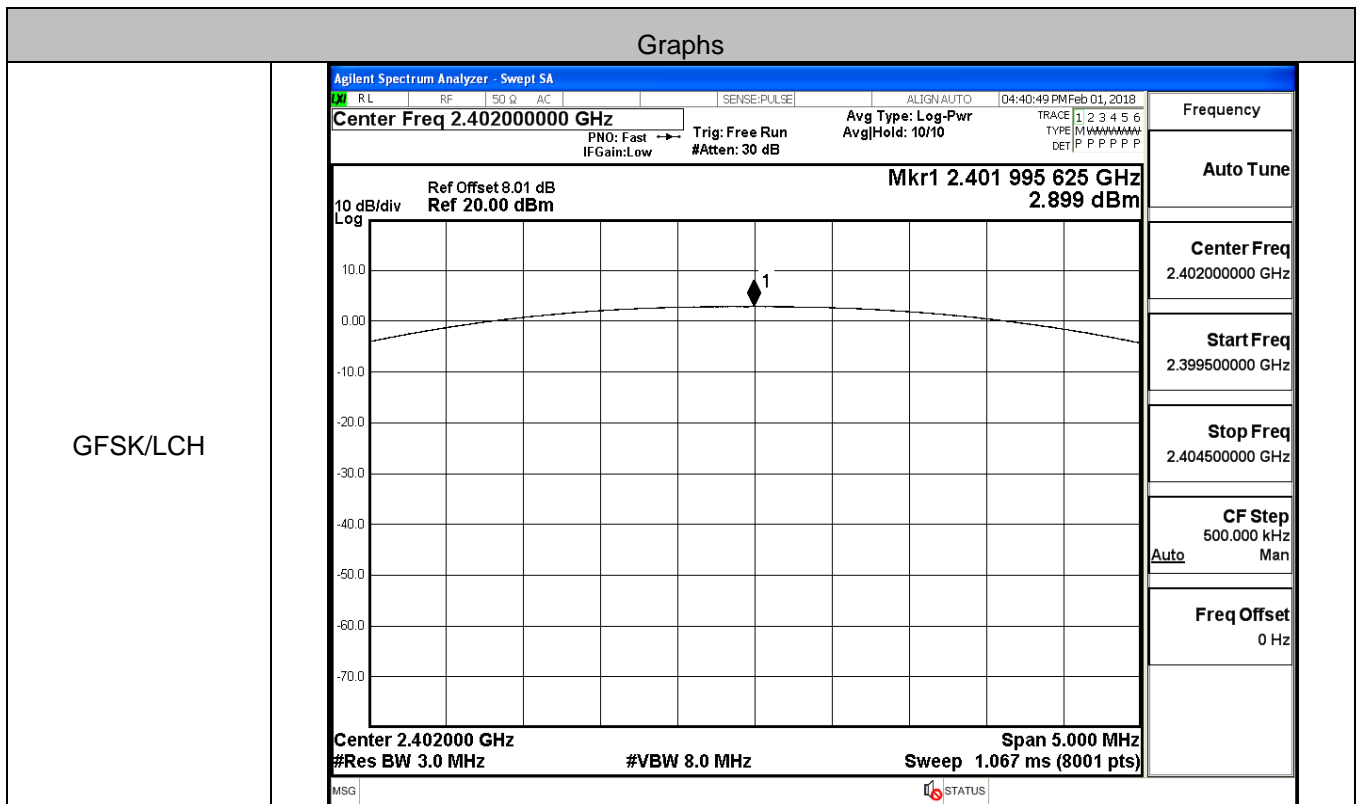


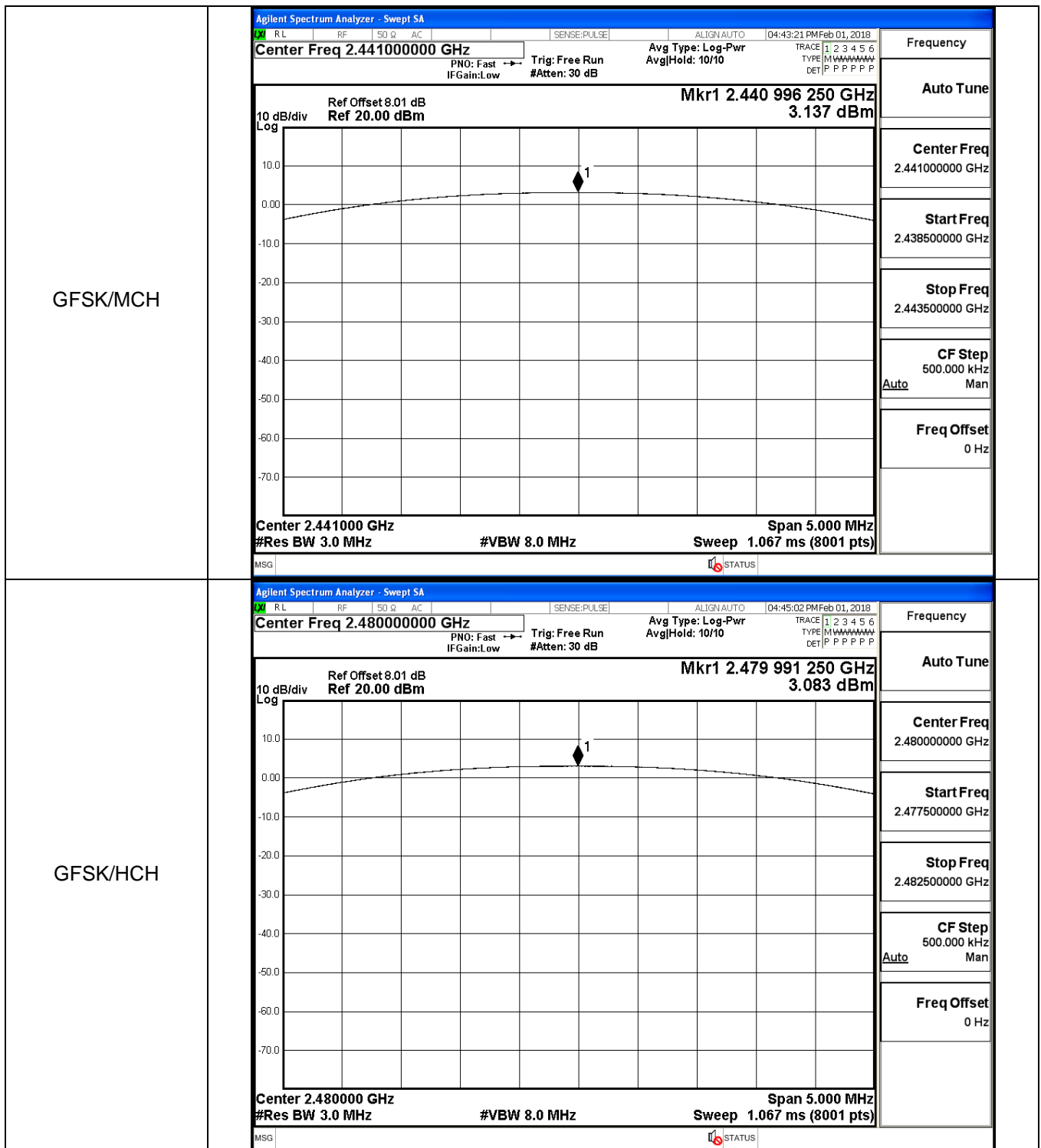


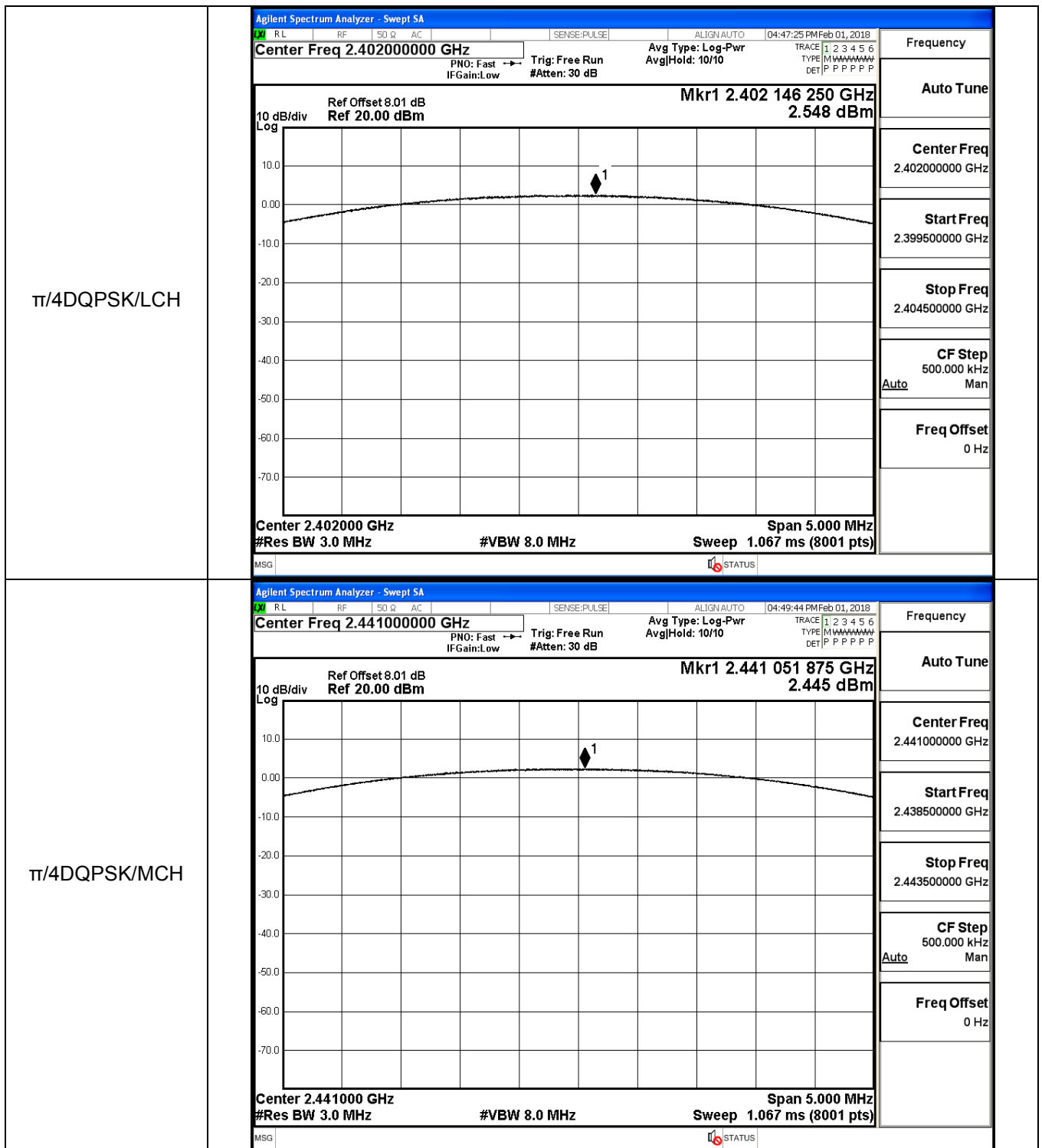
Appendix E): Conducted Peak Output Power Result Table

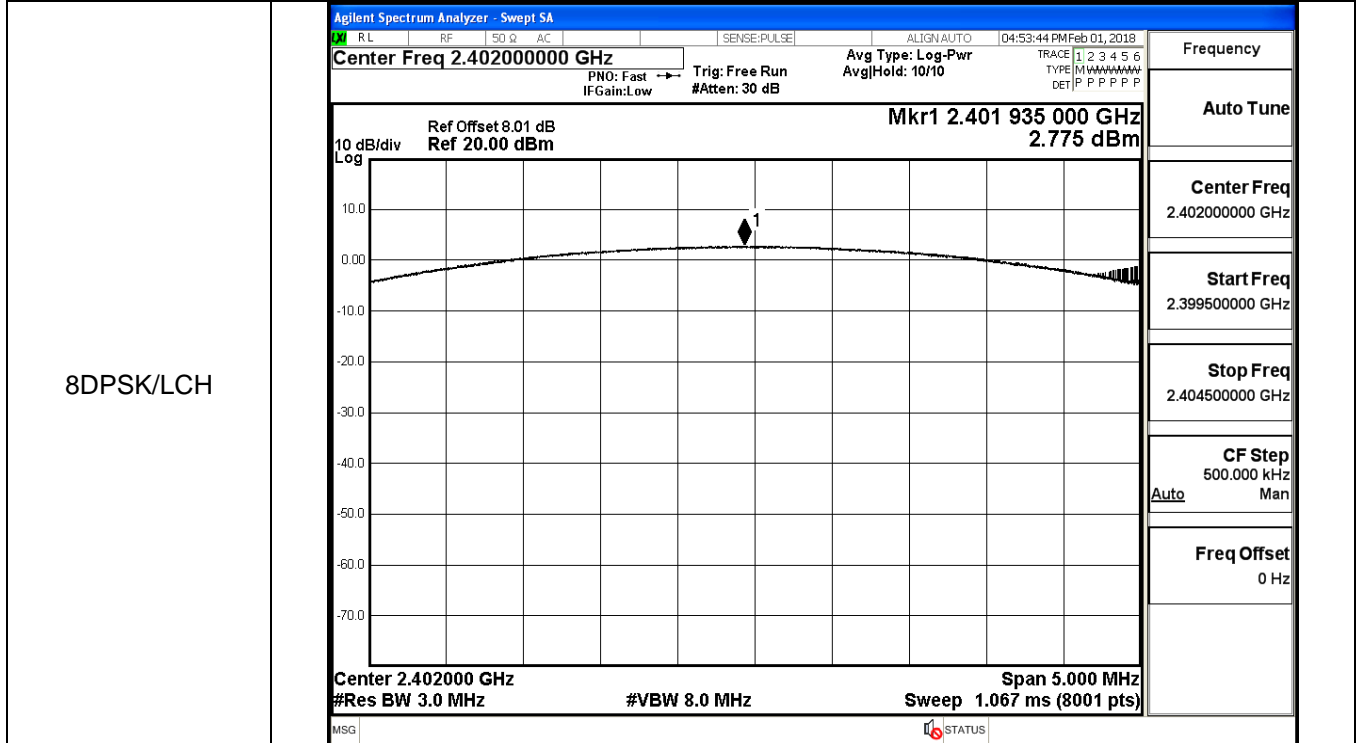
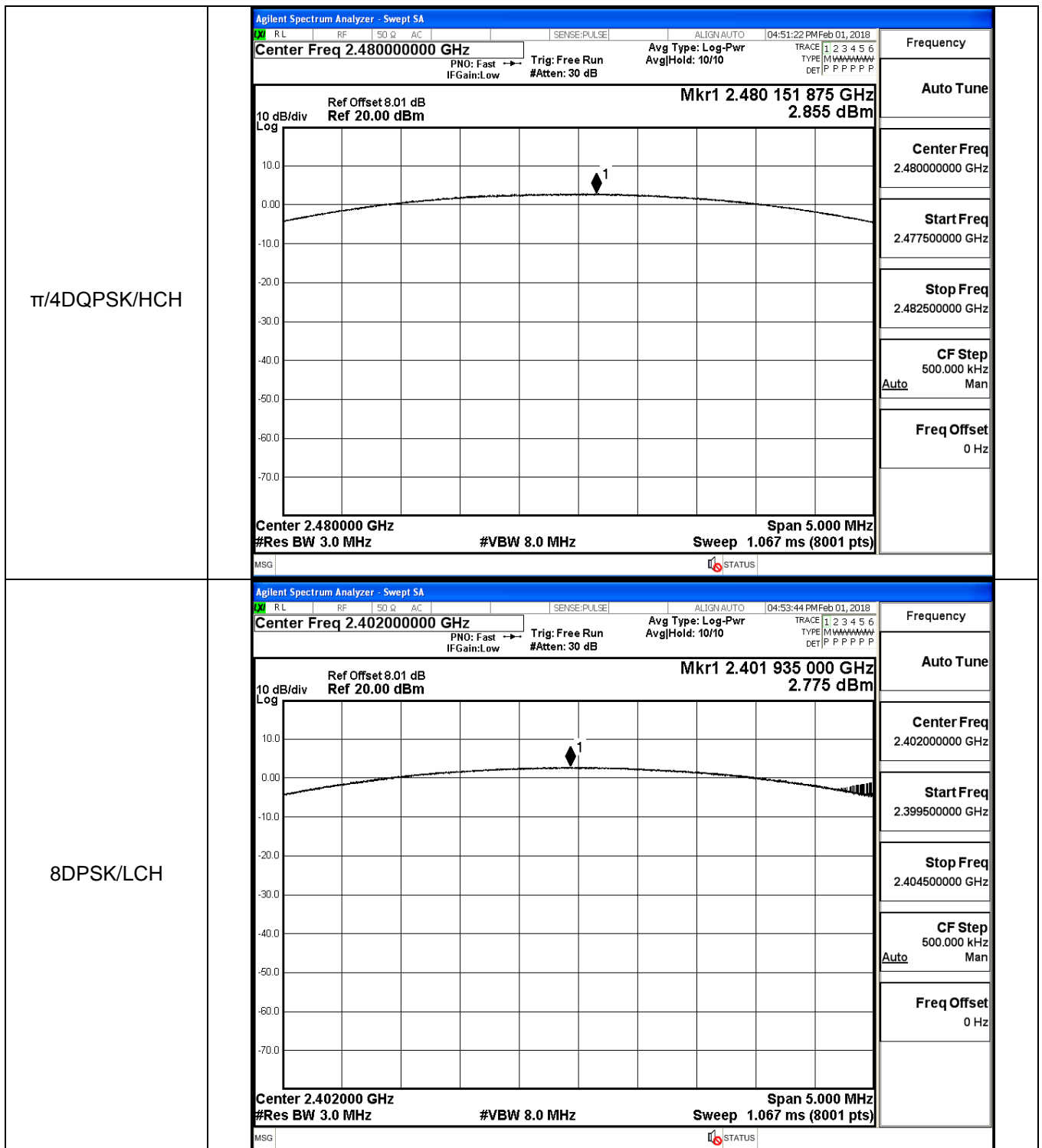
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit[dBm]	Verdict
GFSK	LCH	2.899	21	PASS
GFSK	MCH	3.137	21	PASS
GFSK	HCH	3.083	21	PASS
$\pi/4$ DQPSK	LCH	2.548	21	PASS
$\pi/4$ DQPSK	MCH	2.445	21	PASS
$\pi/4$ DQPSK	HCH	2.855	21	PASS
8DPSK	LCH	2.775	21	PASS
8DPSK	MCH	3.042	21	PASS
8DPSK	HCH	3.037	21	PASS

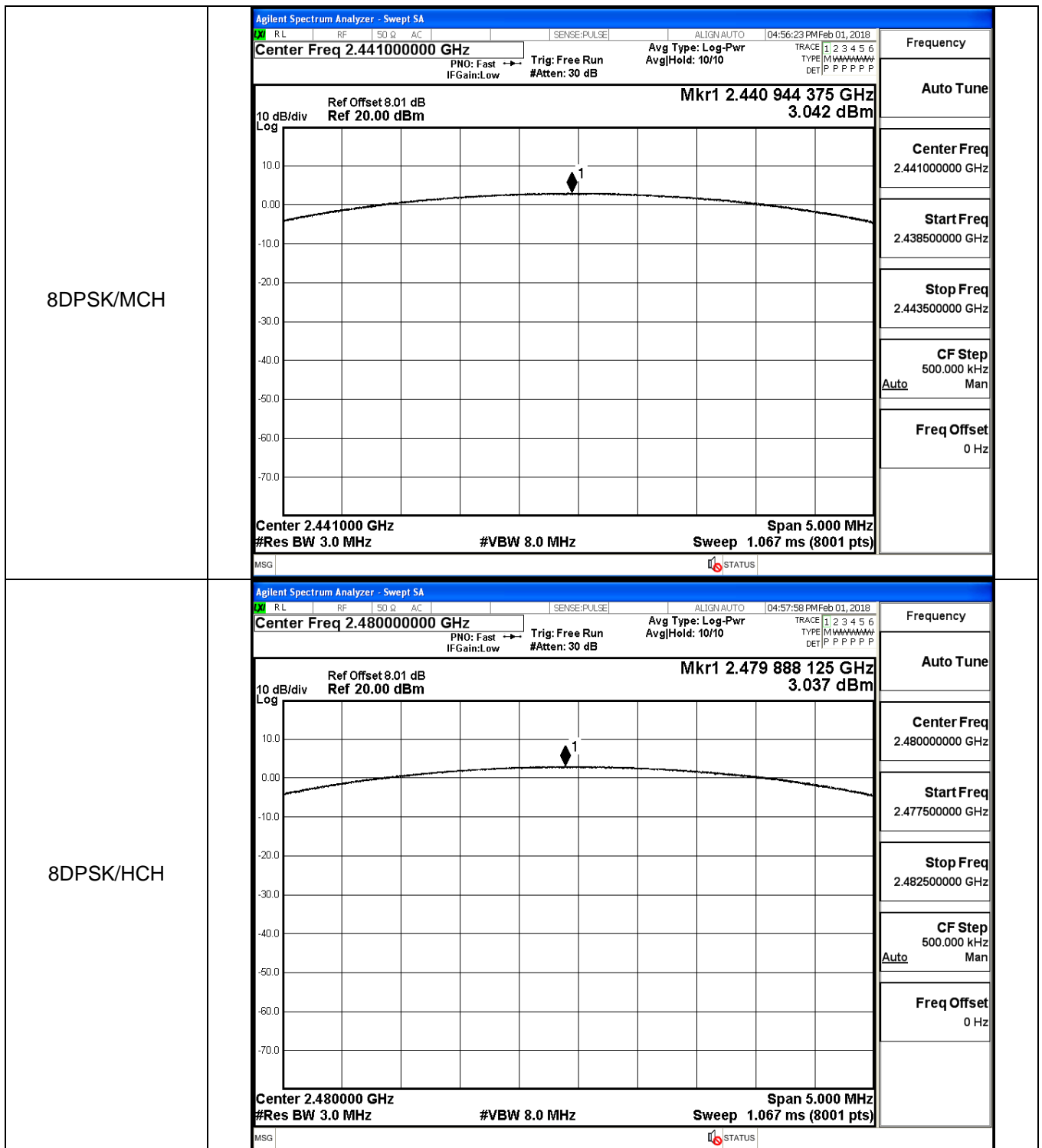
Test Graph









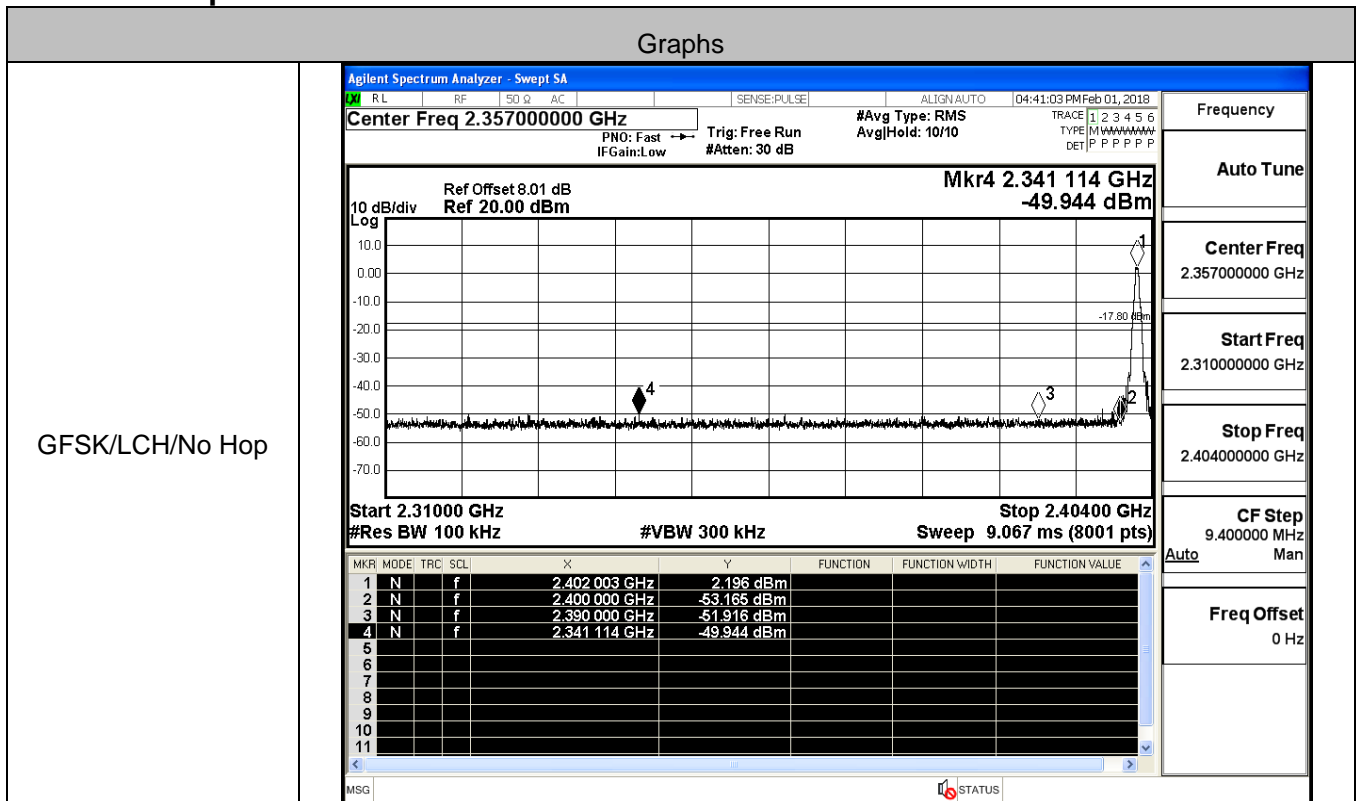


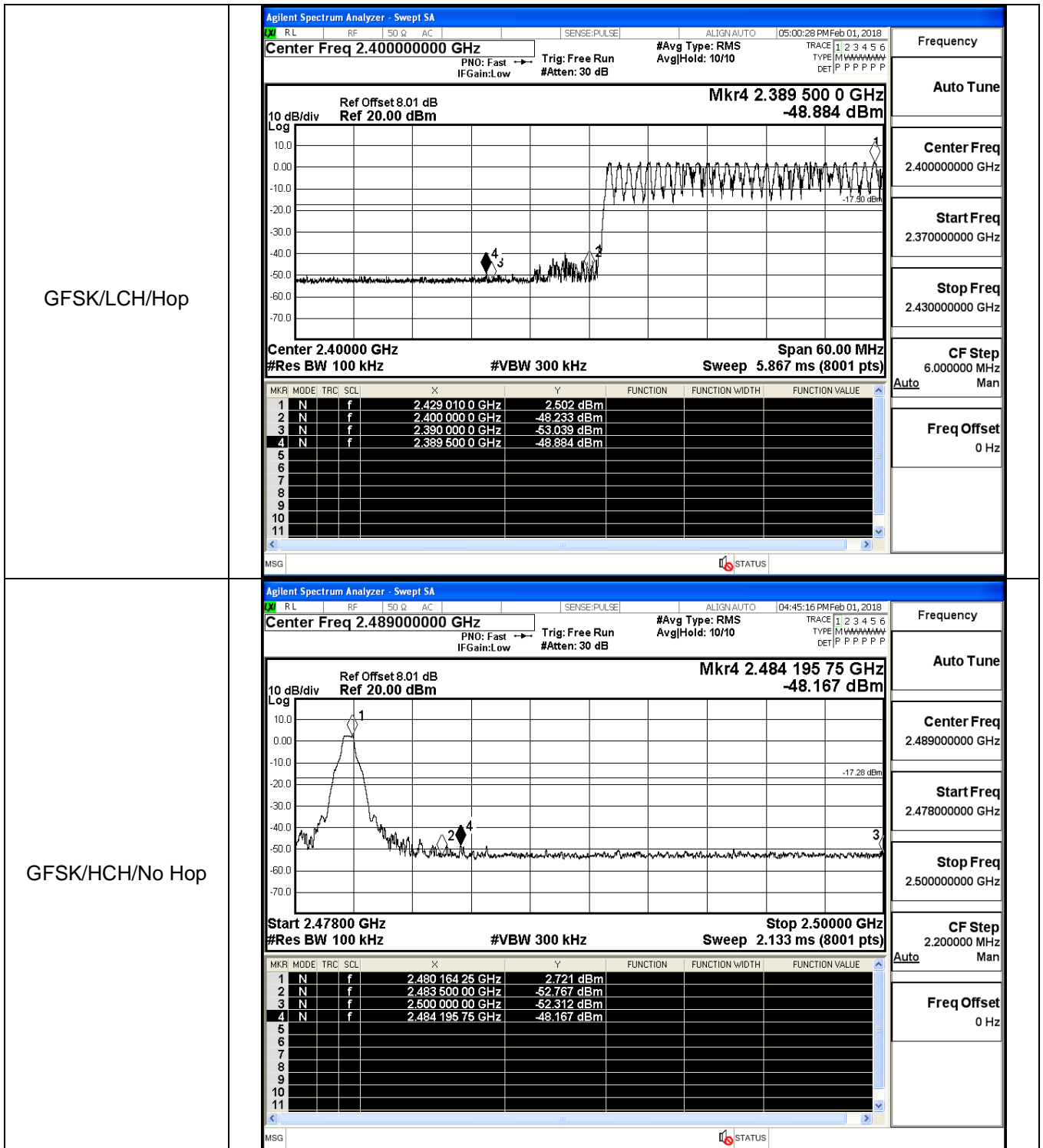
Appendix F): Band-edge for RF Conducted Emissions

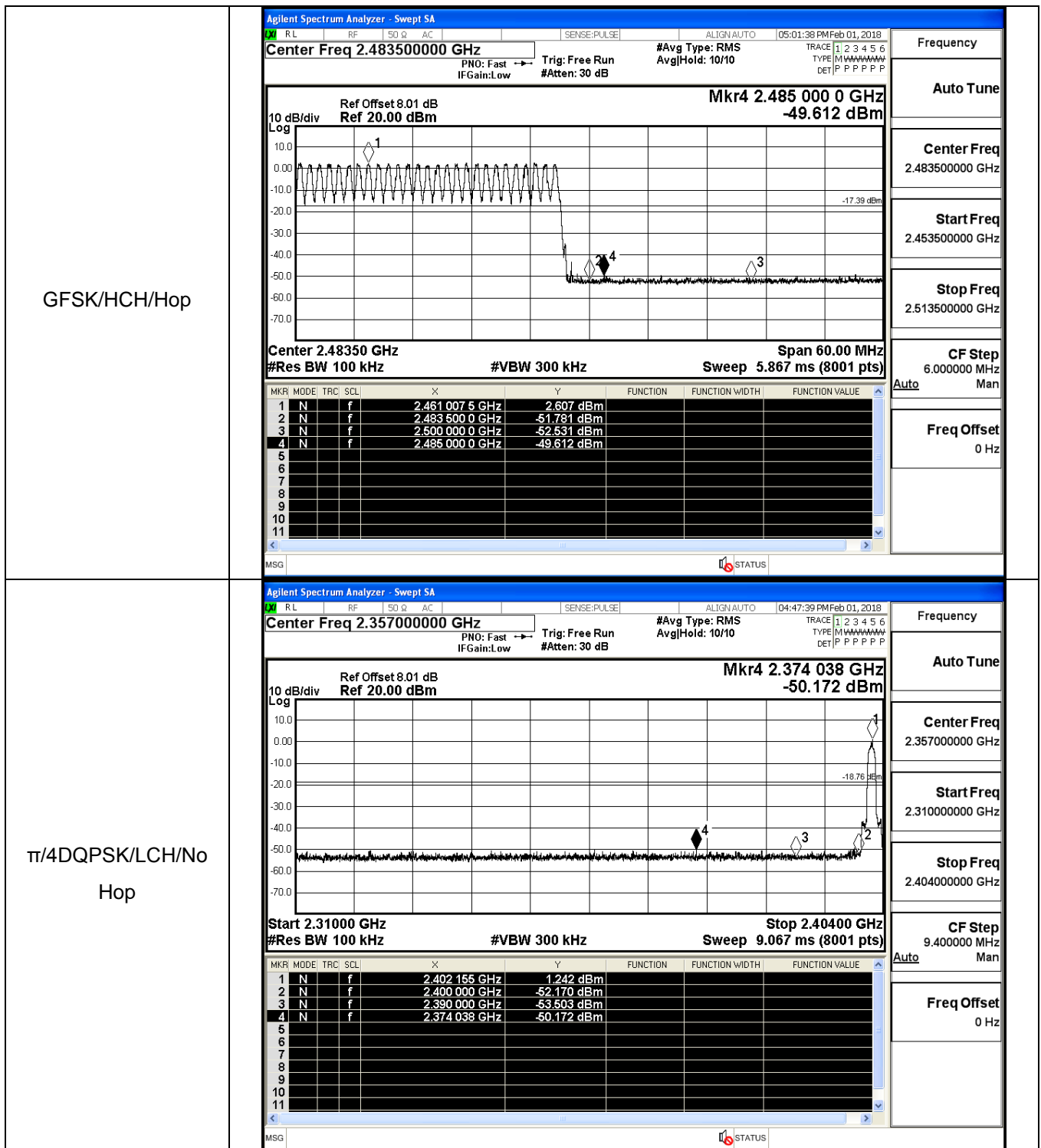
Result Table

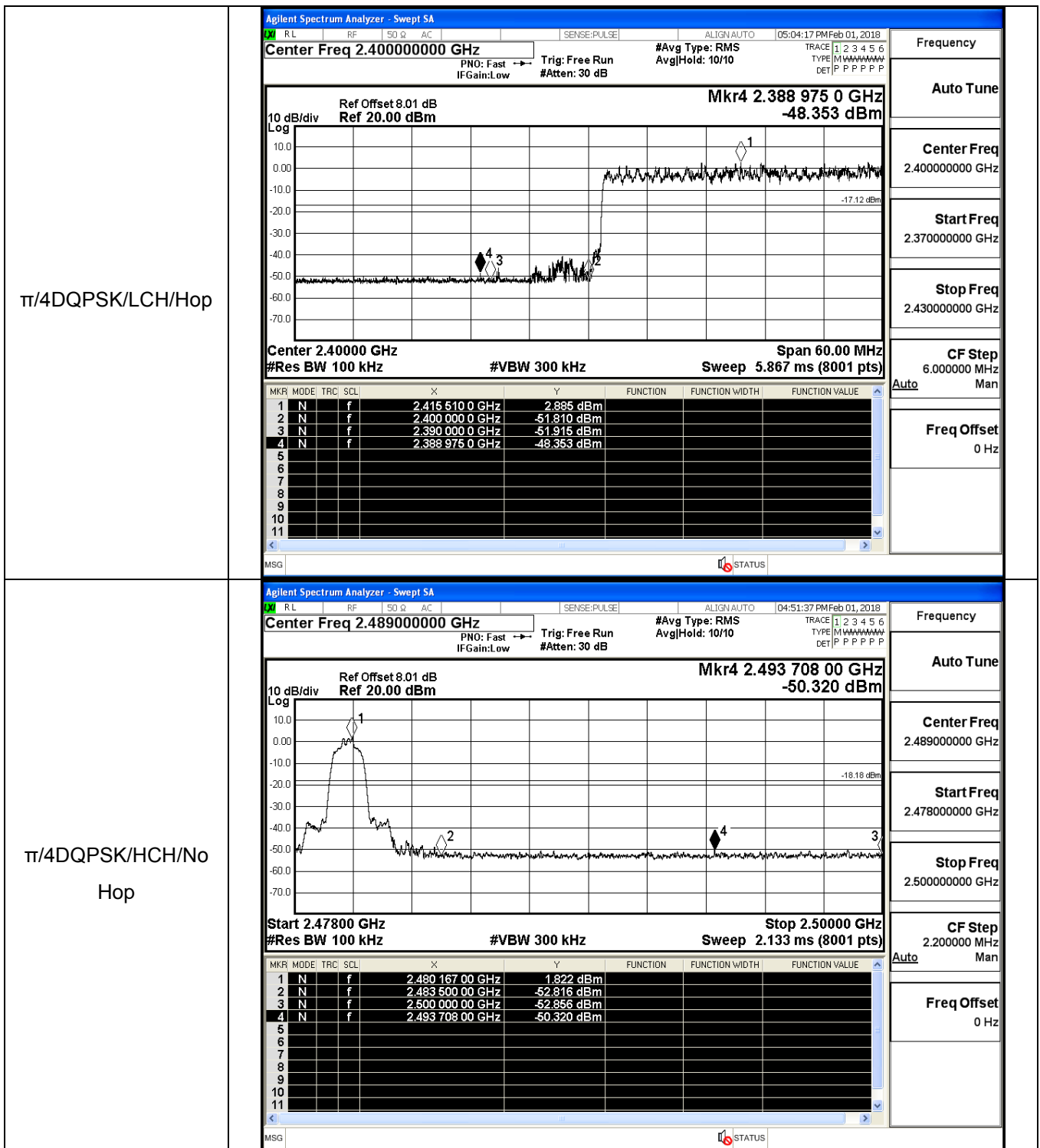
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	2.196	Off	-49.944	-17.8	PASS
			2.502	On	-48.884	-17.5	PASS
GFSK	HCH	2480	2.721	Off	-48.167	-17.28	PASS
			2.607	On	-49.612	-17.39	PASS
$\pi/4$ DQPSK	LCH	2402	1.242	Off	-50.172	-18.76	PASS
			2.885	On	-48.353	-17.12	PASS
$\pi/4$ DQPSK	HCH	2480	1.822	Off	-50.320	-18.18	PASS
			1.526	On	-48.621	-18.47	PASS
8DPSK	LCH	2402	1.539	Off	-50.288	-18.46	PASS
			2.070	On	-45.313	-17.93	PASS
8DPSK	HCH	2480	1.910	Off	-50.077	-18.09	PASS
			1.503	On	-49.617	-18.5	PASS

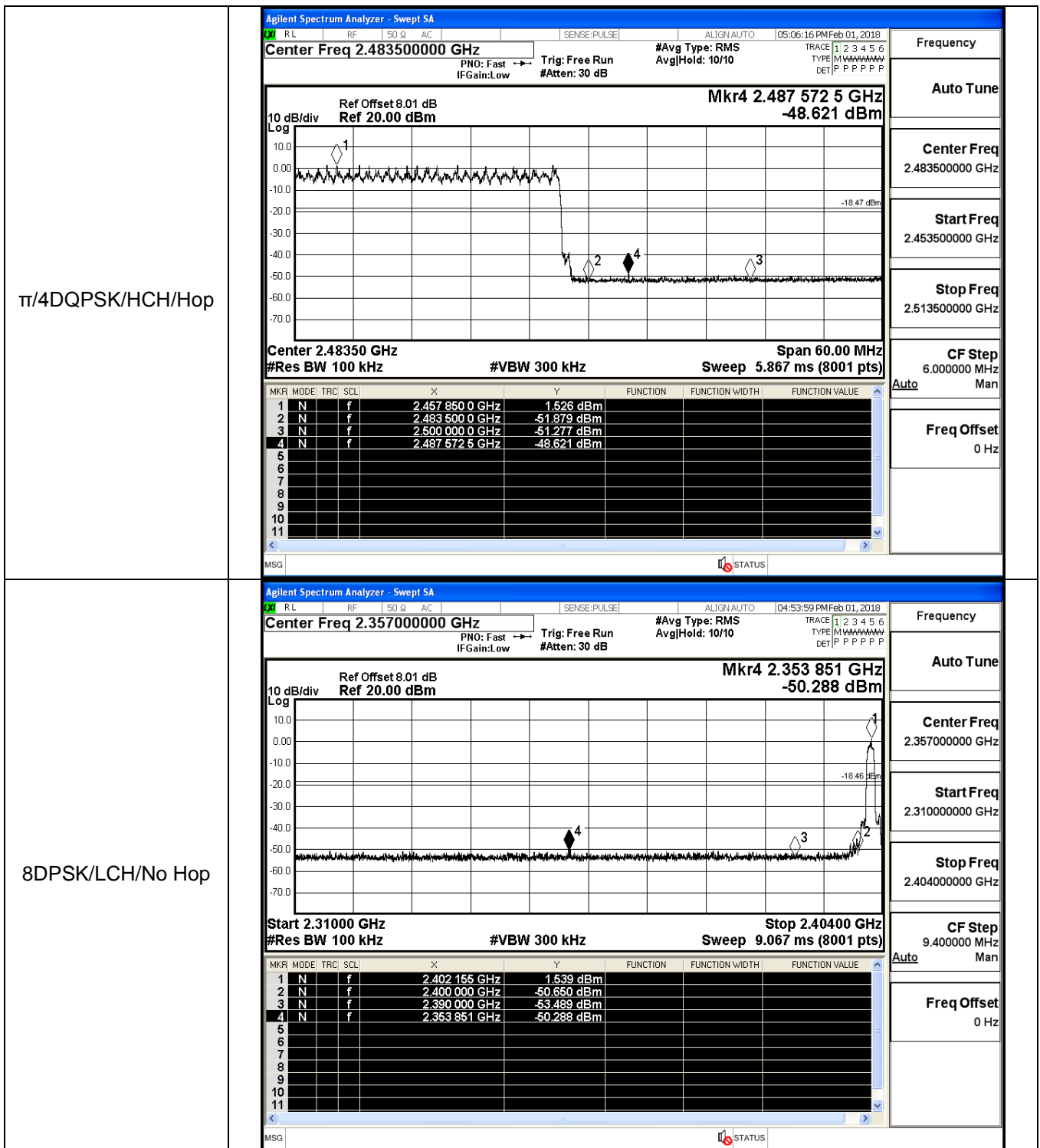
Test Graph

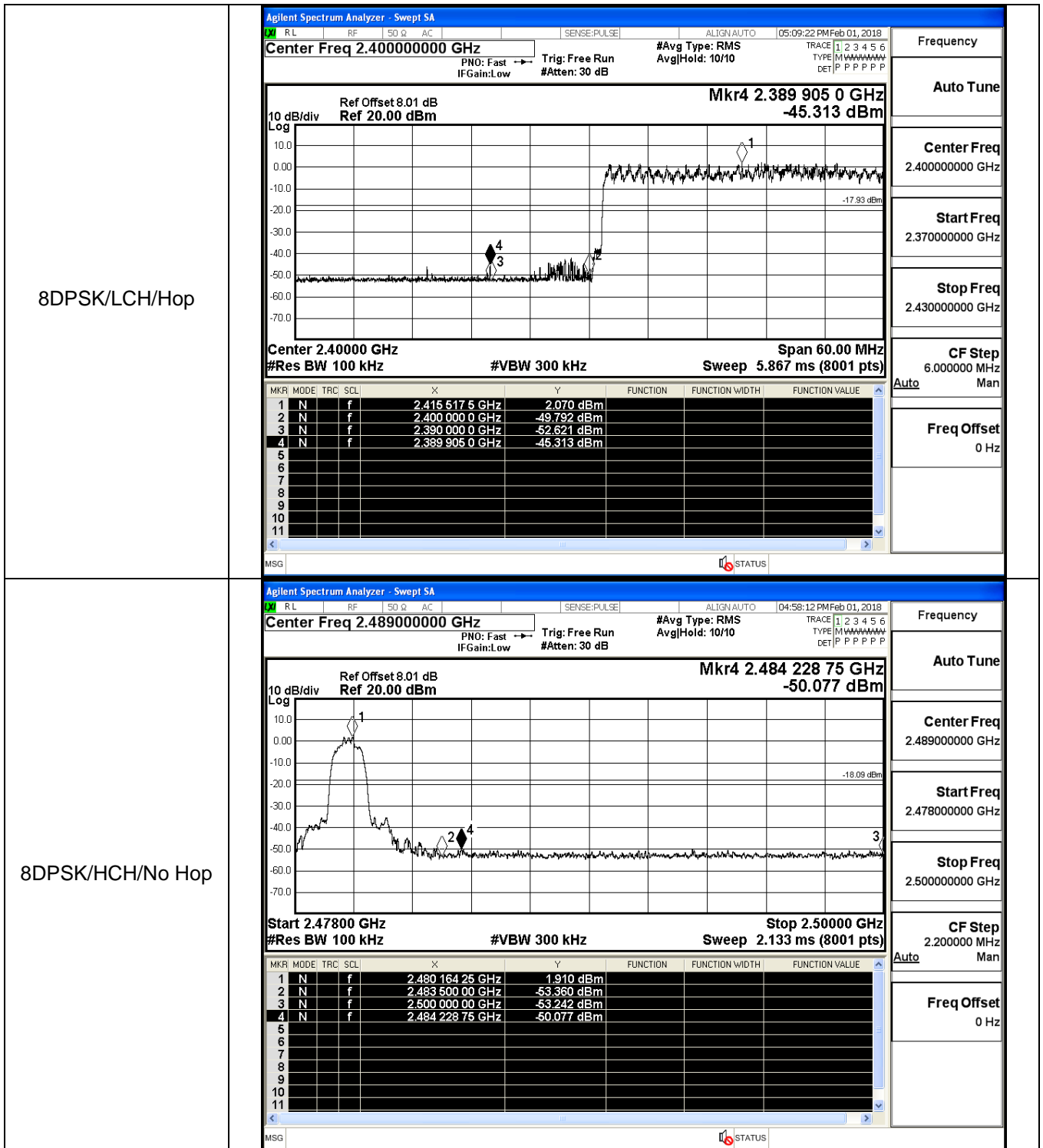




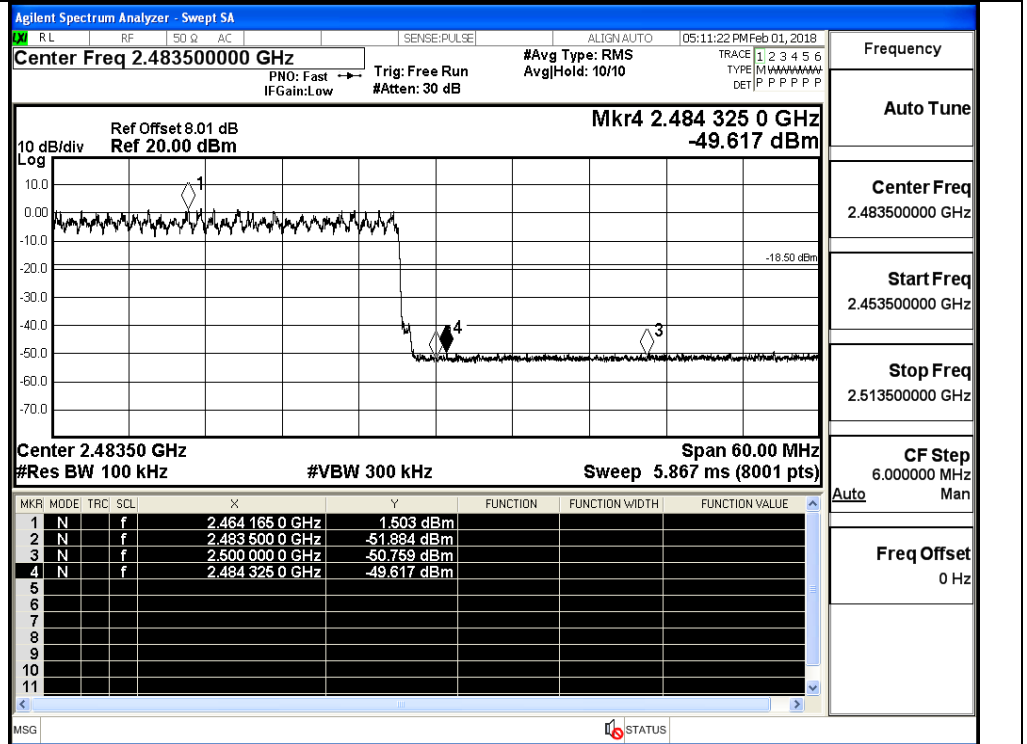








8DPSK/HCH/Hop

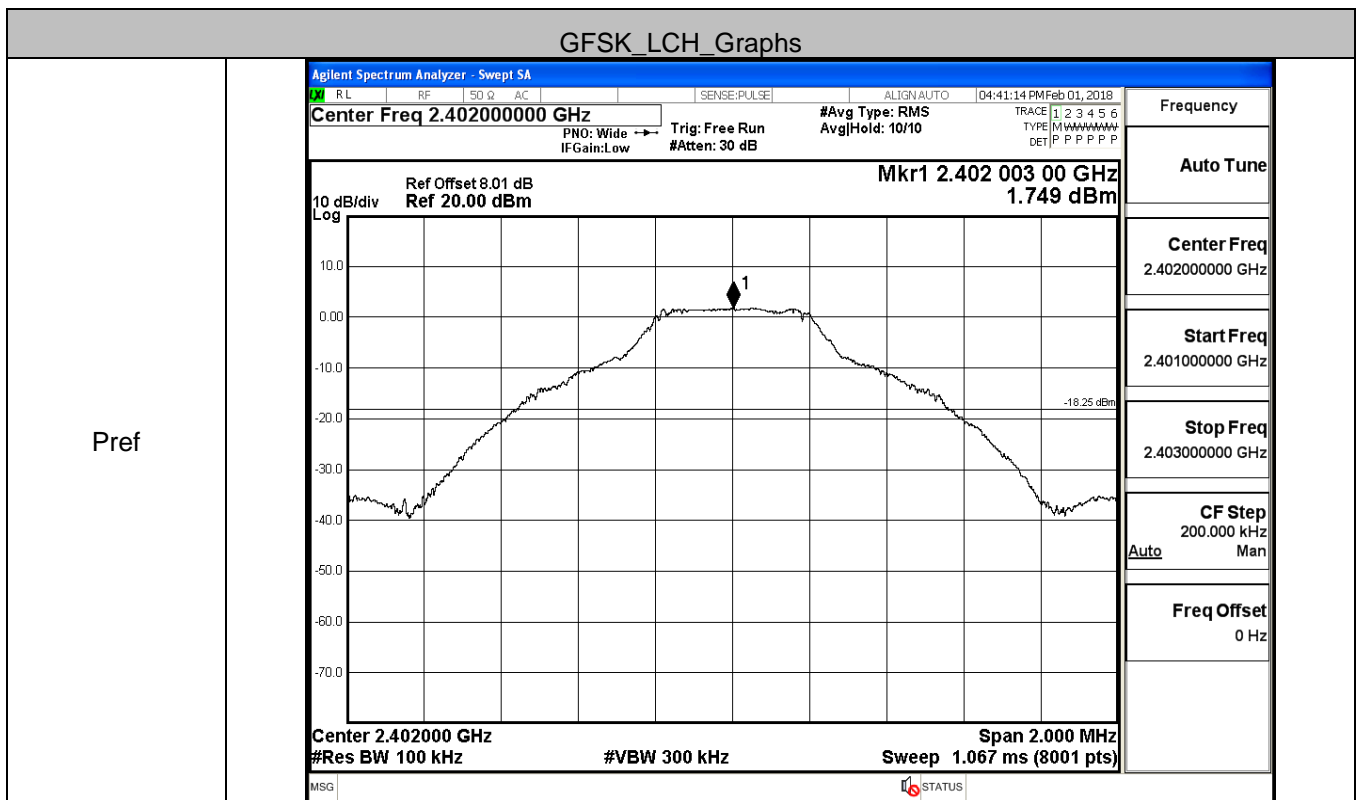


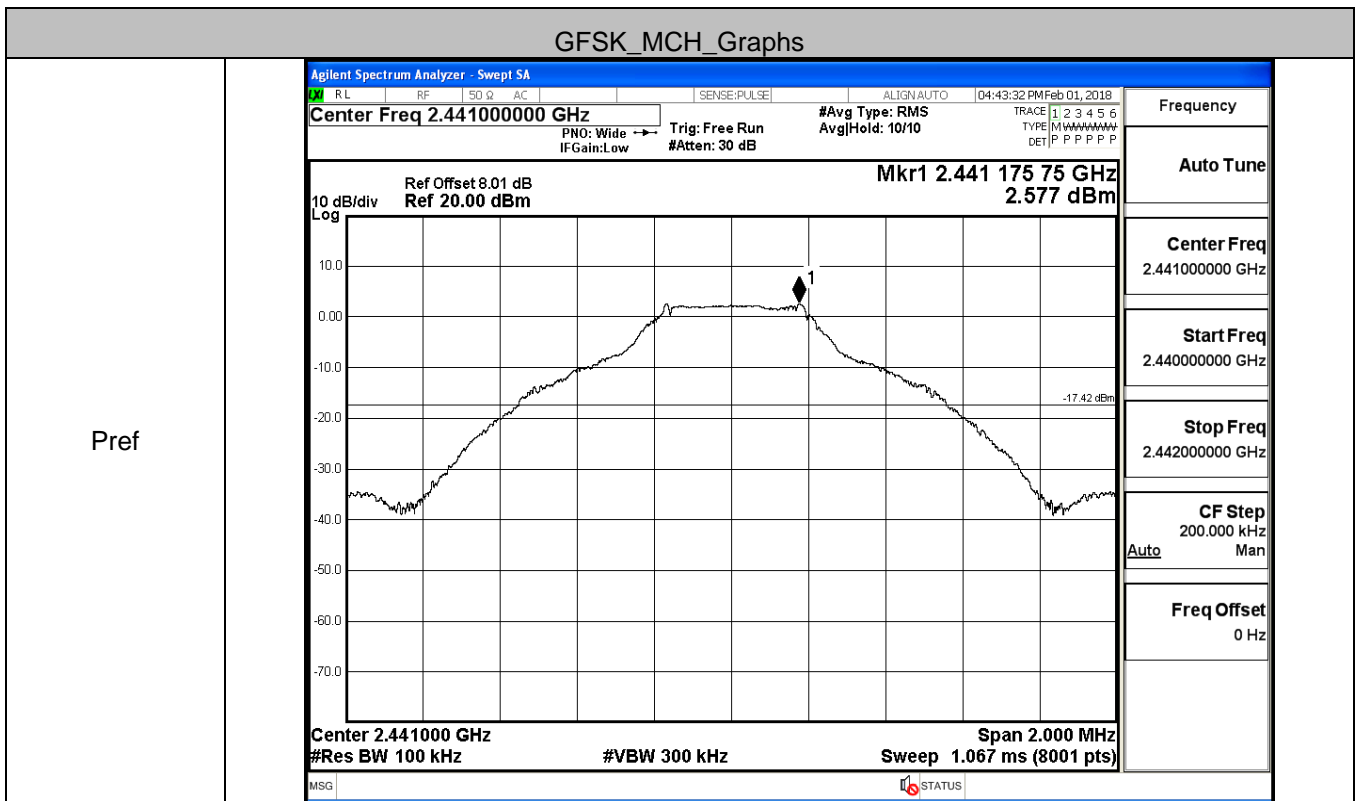
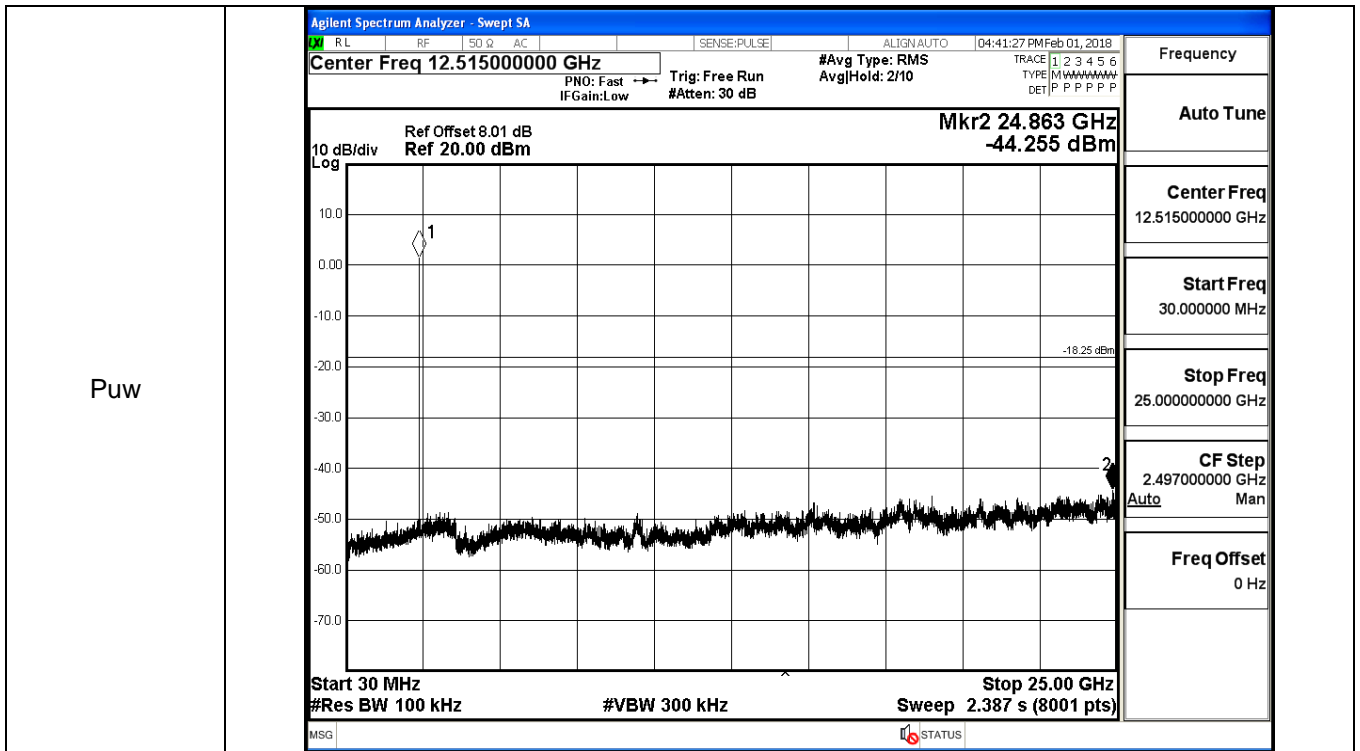
Appendix G): RF Conducted Spurious Emissions

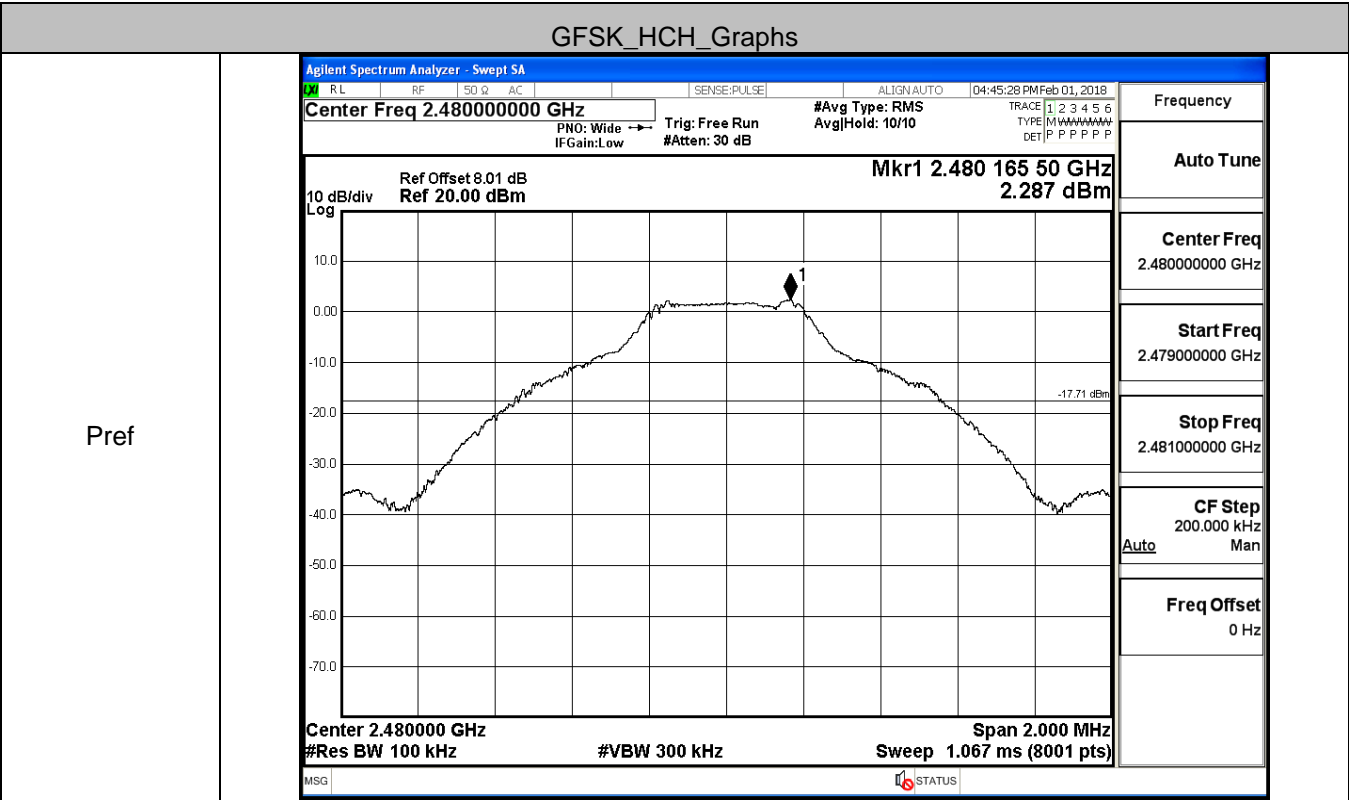
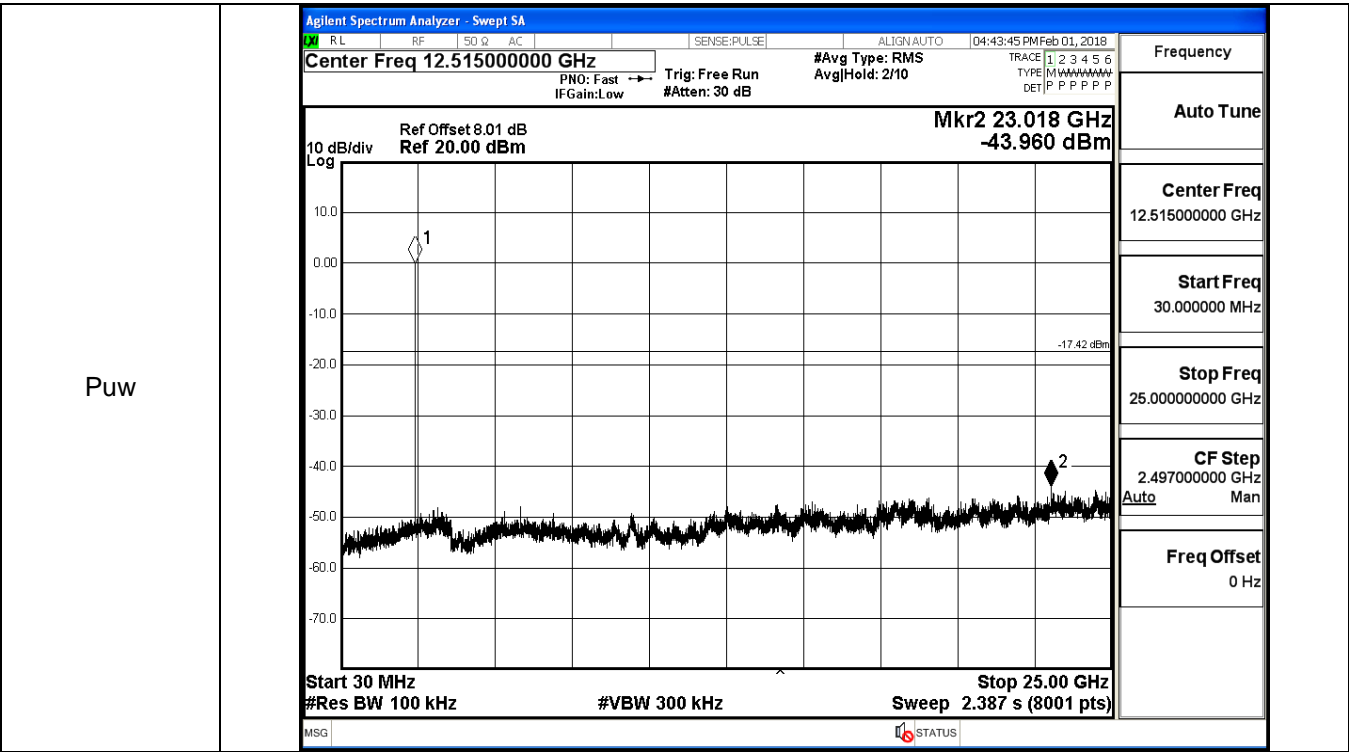
Result Table

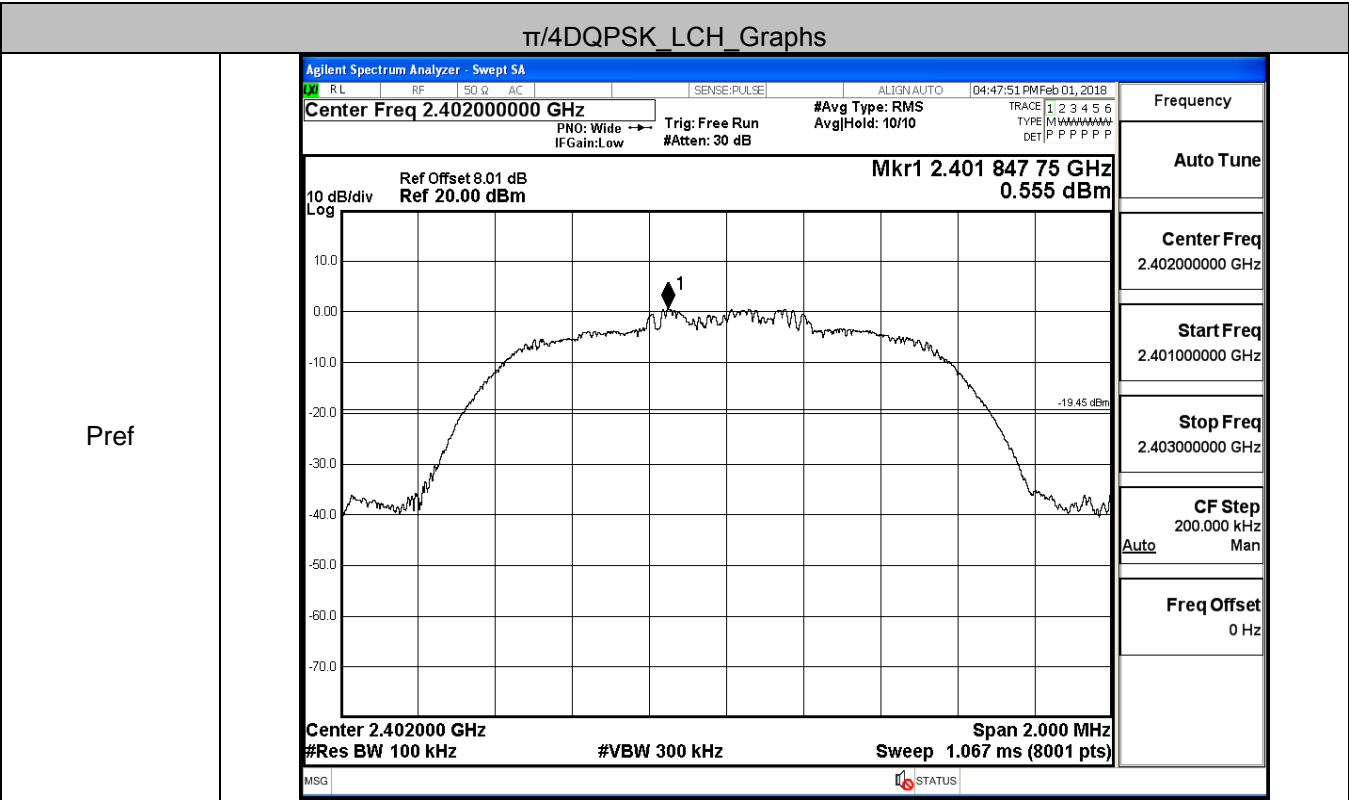
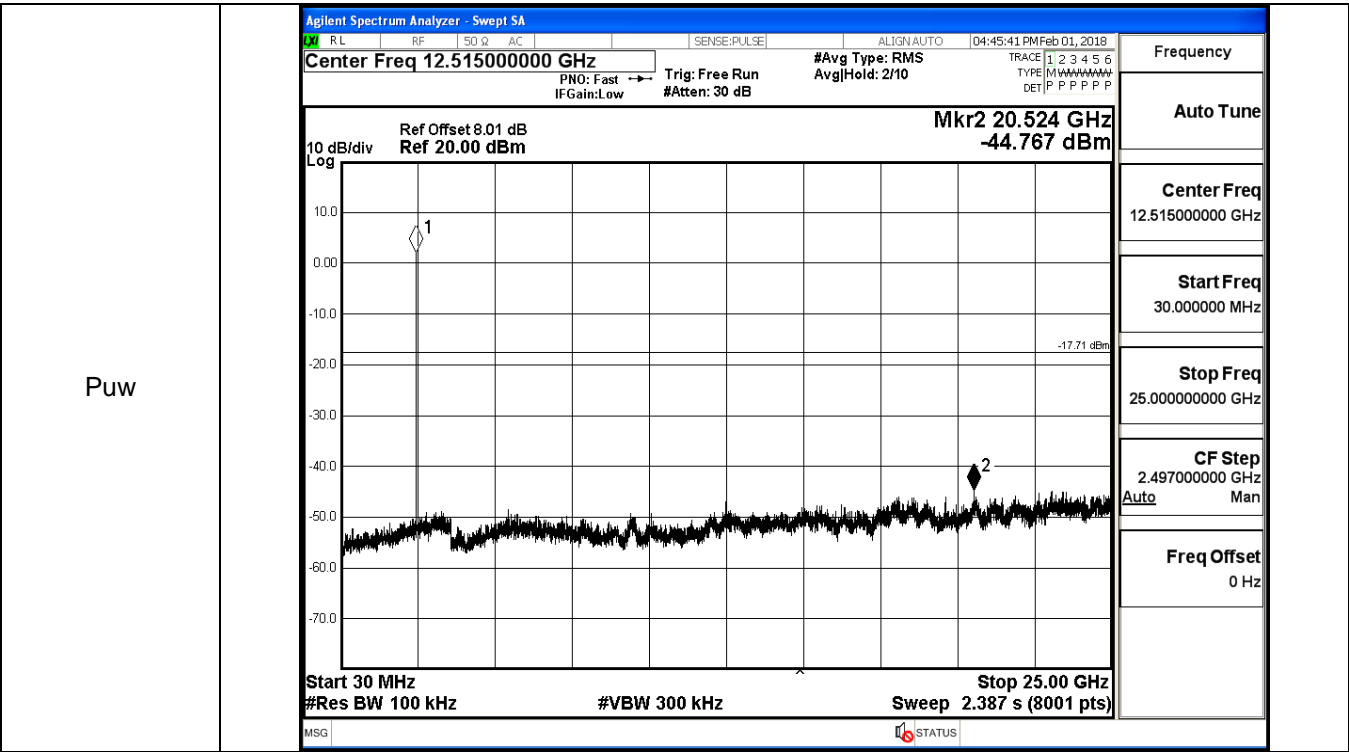
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	1.749	<-18.25	PASS
GFSK	MCH	2.577	<-17.42	PASS
GFSK	HCH	2.287	<-17.71	PASS
$\pi/4$ DQPSK	LCH	0.555	<-19.45	PASS
$\pi/4$ DQPSK	MCH	1.499	<-18.50	PASS
$\pi/4$ DQPSK	HCH	1.175	<-18.83	PASS
8DPSK	LCH	1.251	<-18.75	PASS
8DPSK	MCH	1.858	<-18.14	PASS
8DPSK	HCH	1.189	<-18.81	PASS

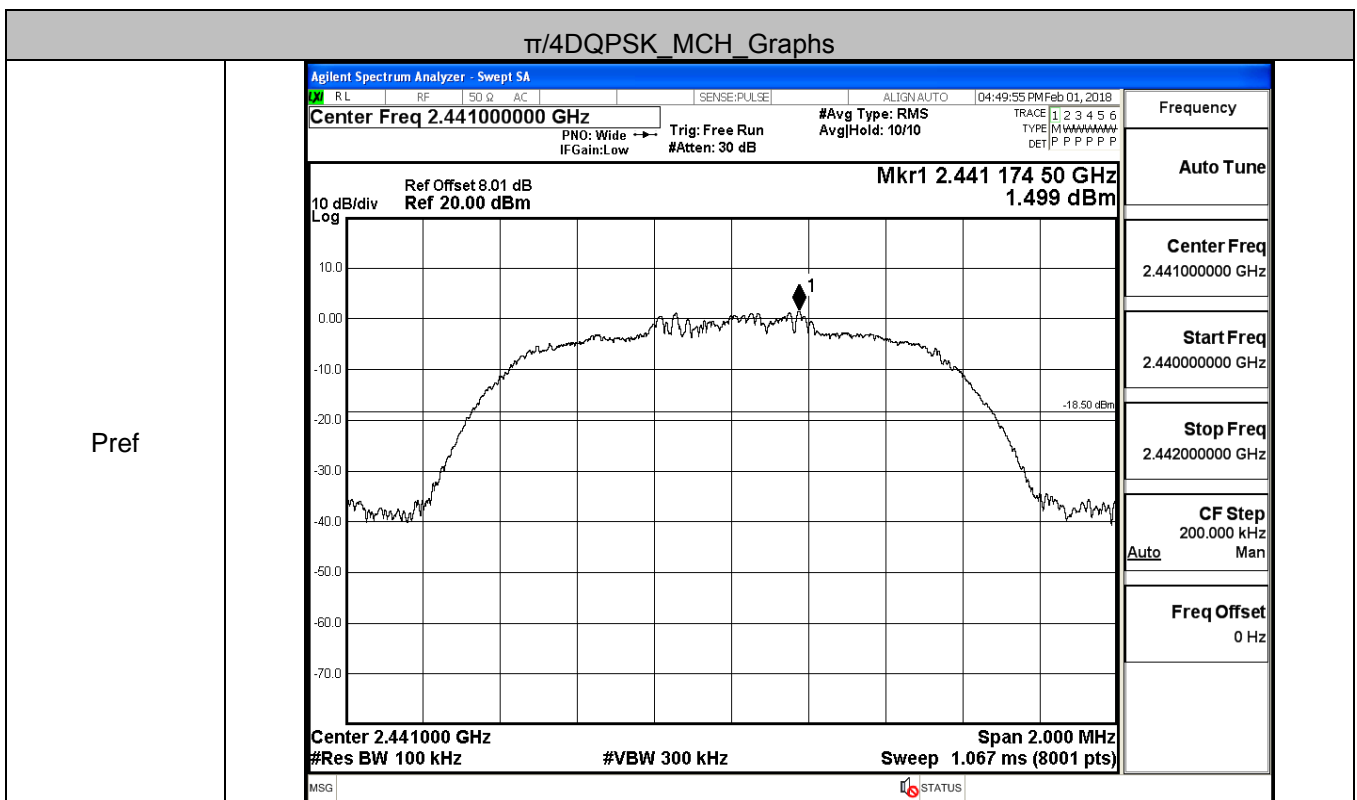
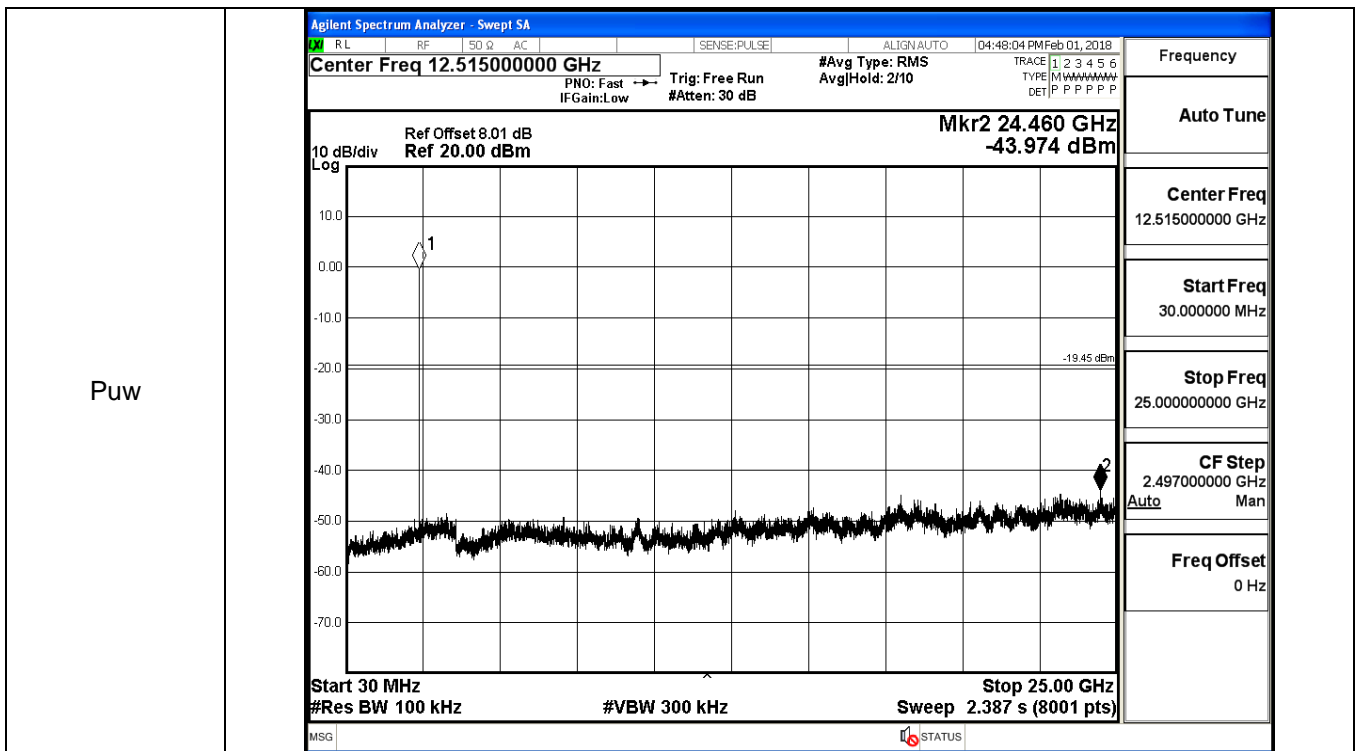
Test Graph

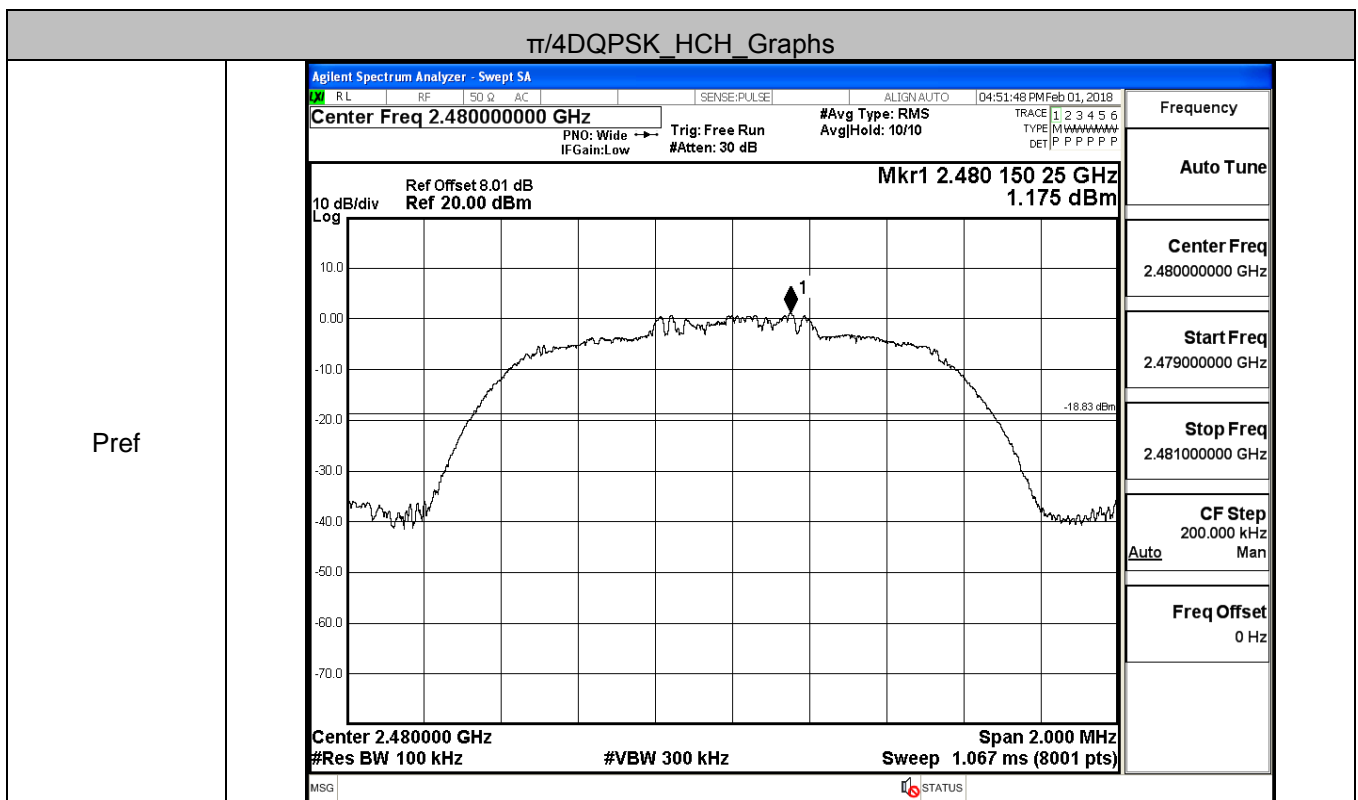
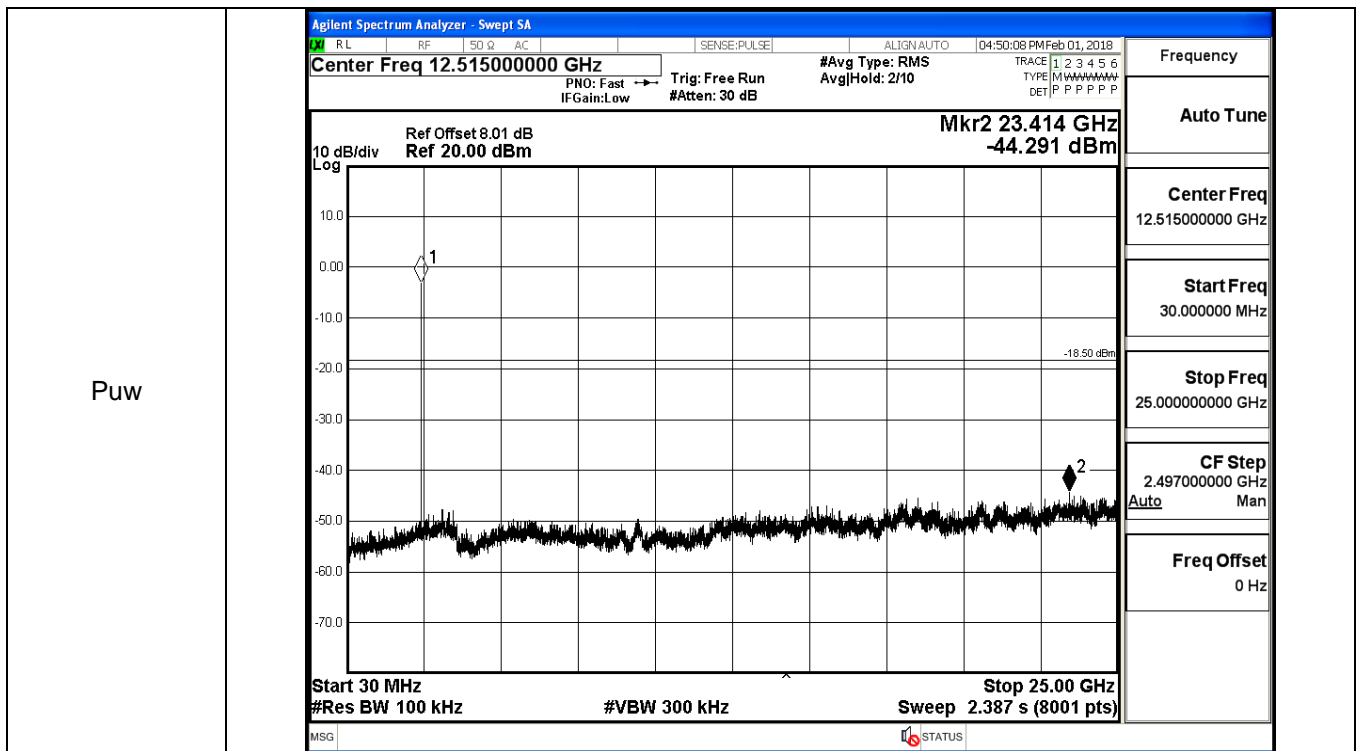


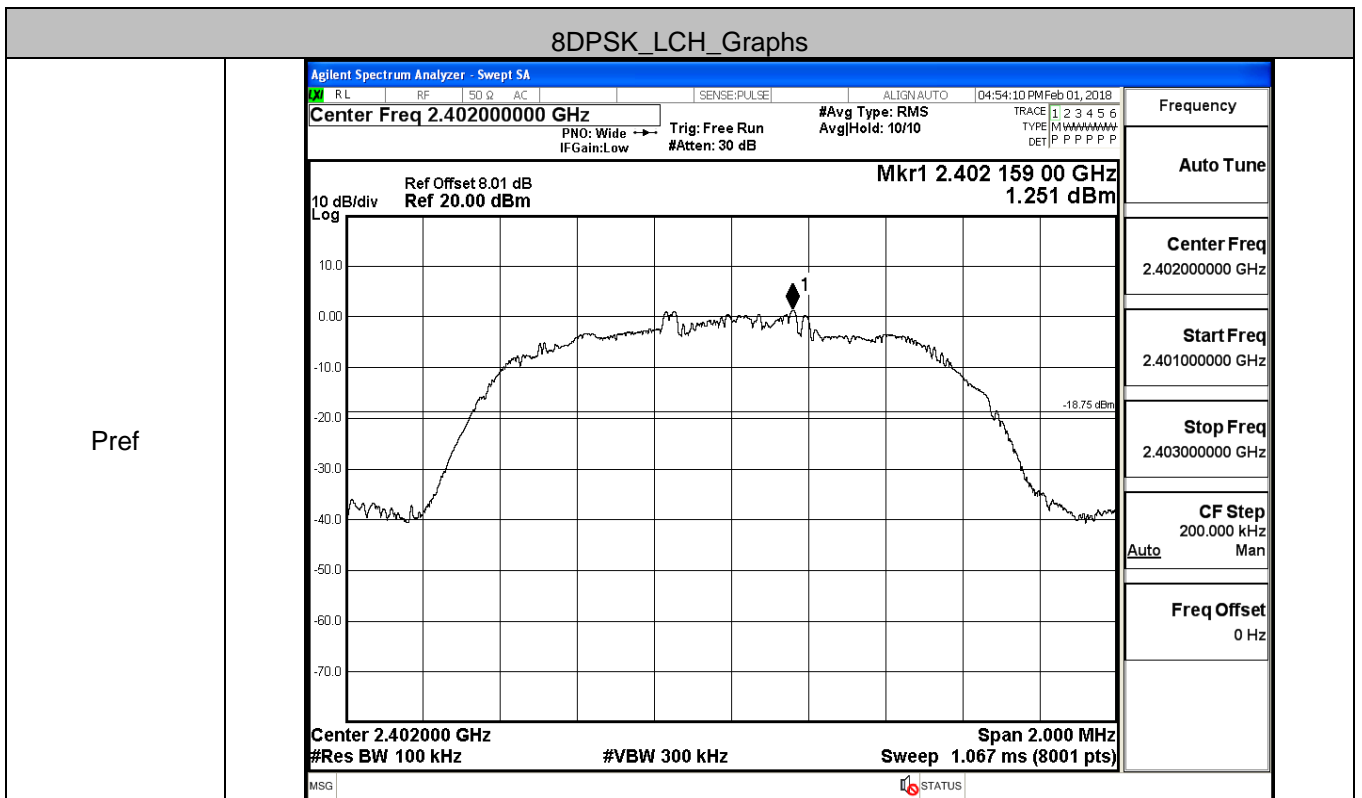
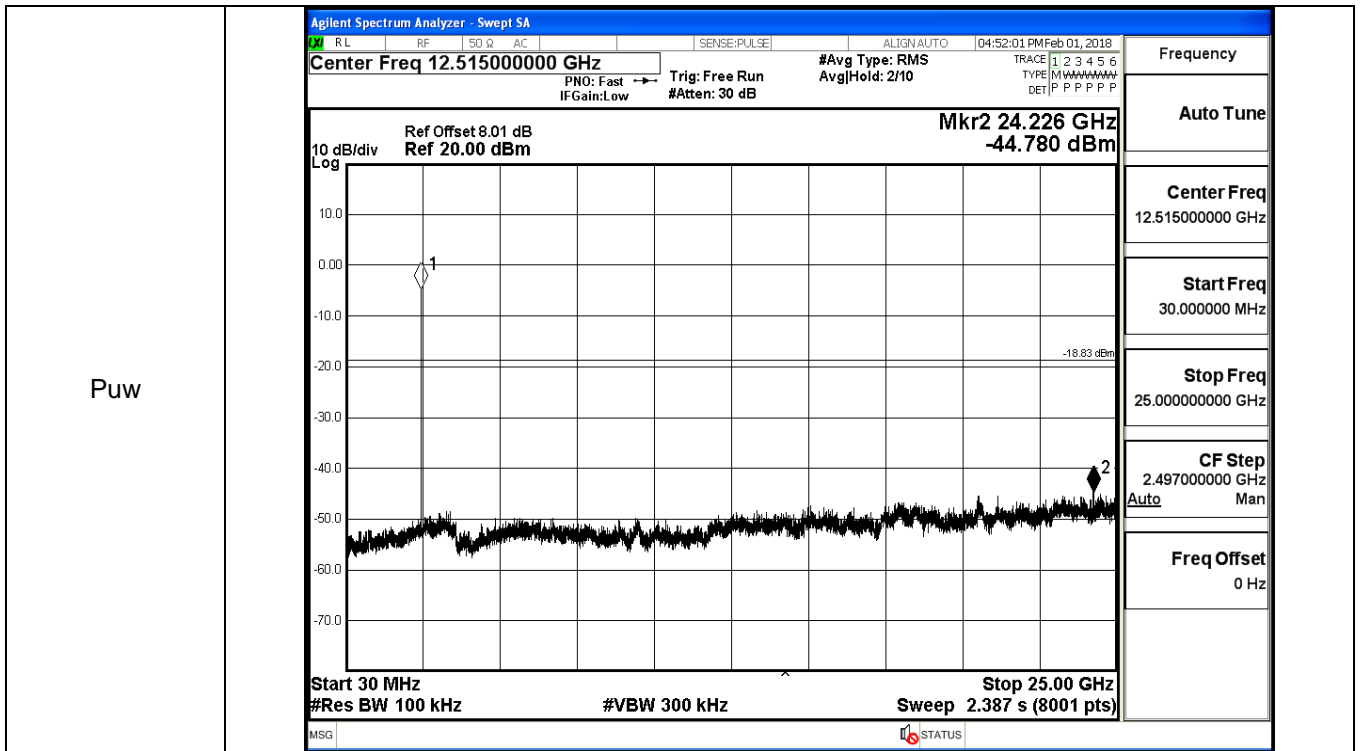


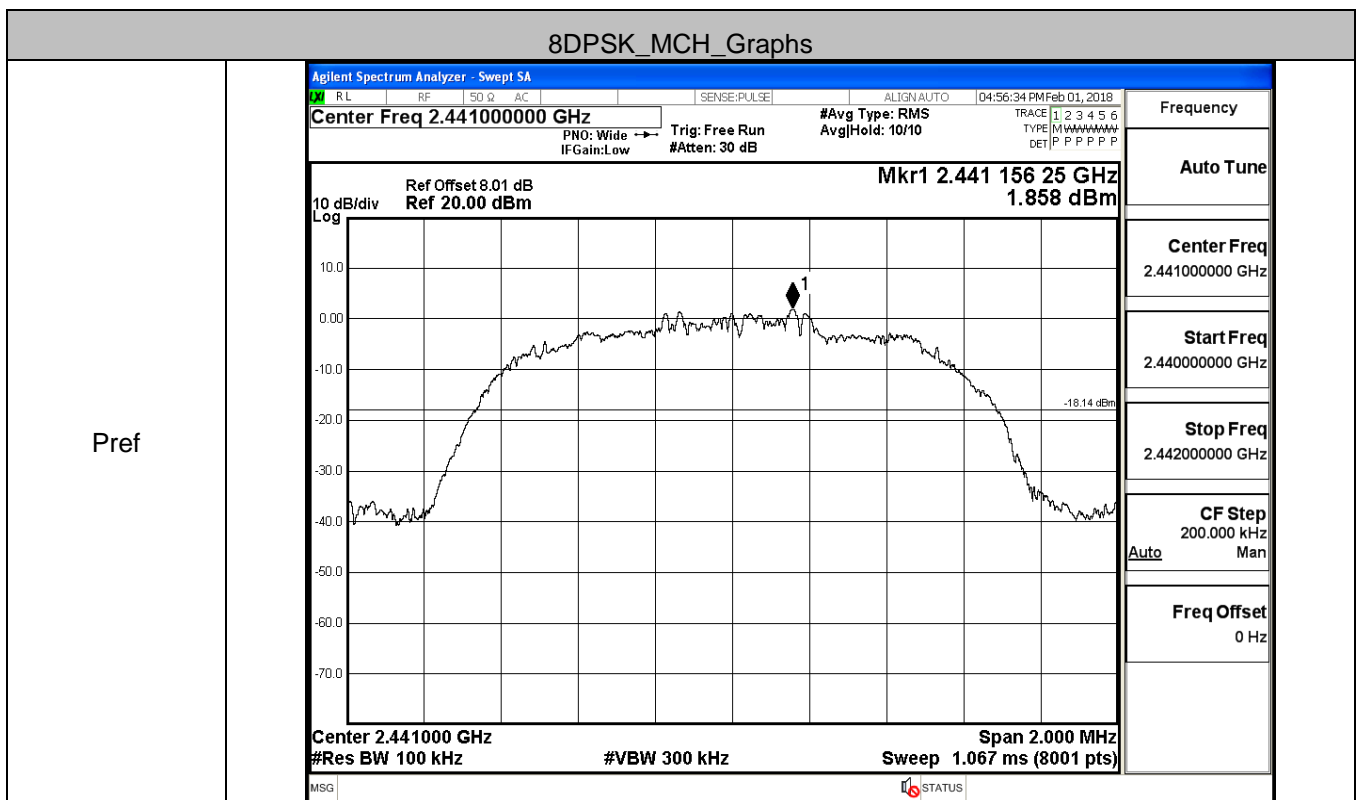
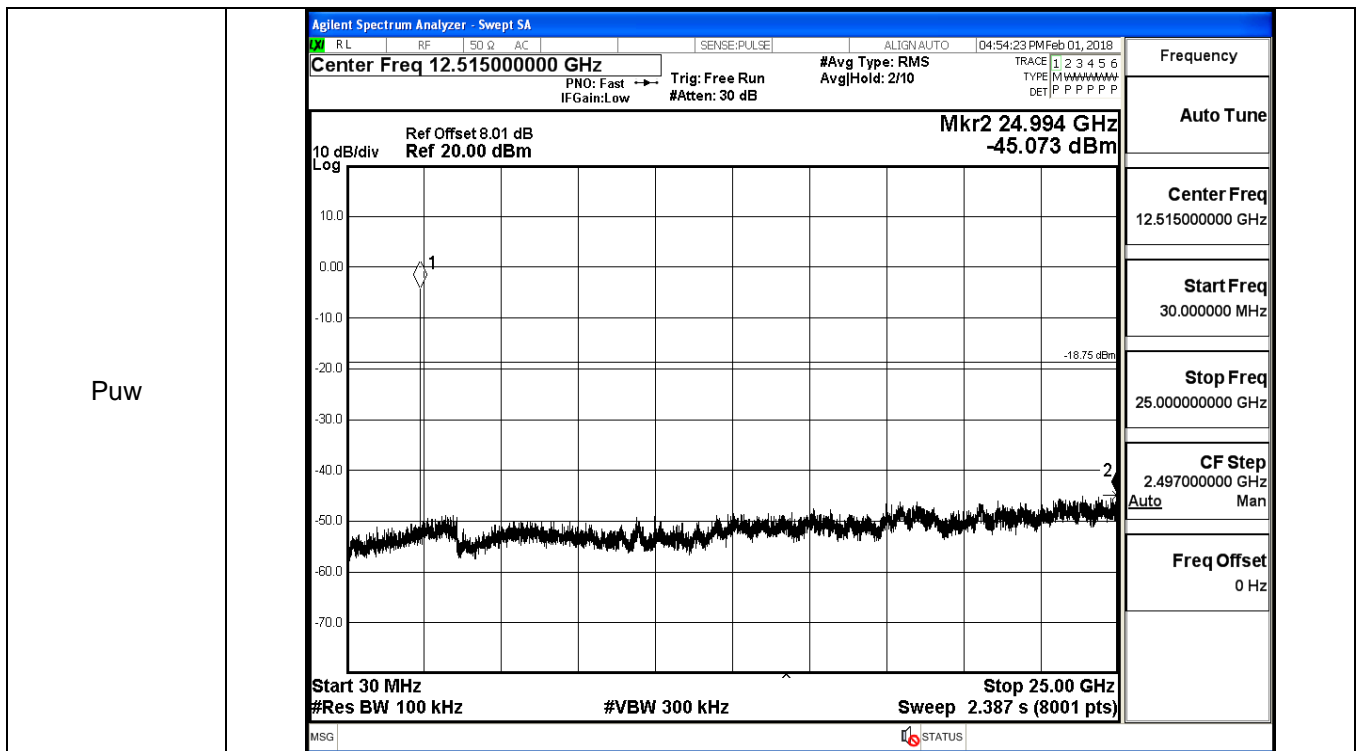


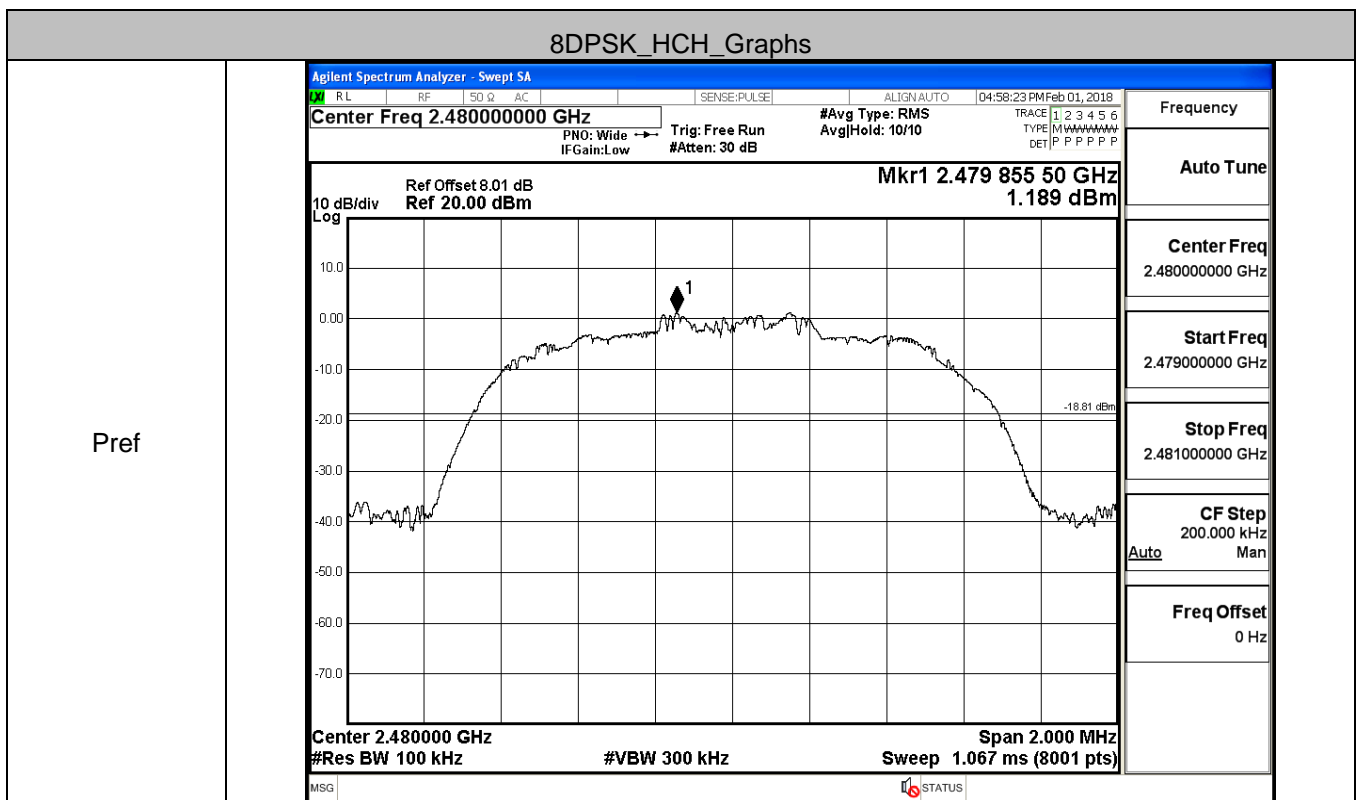
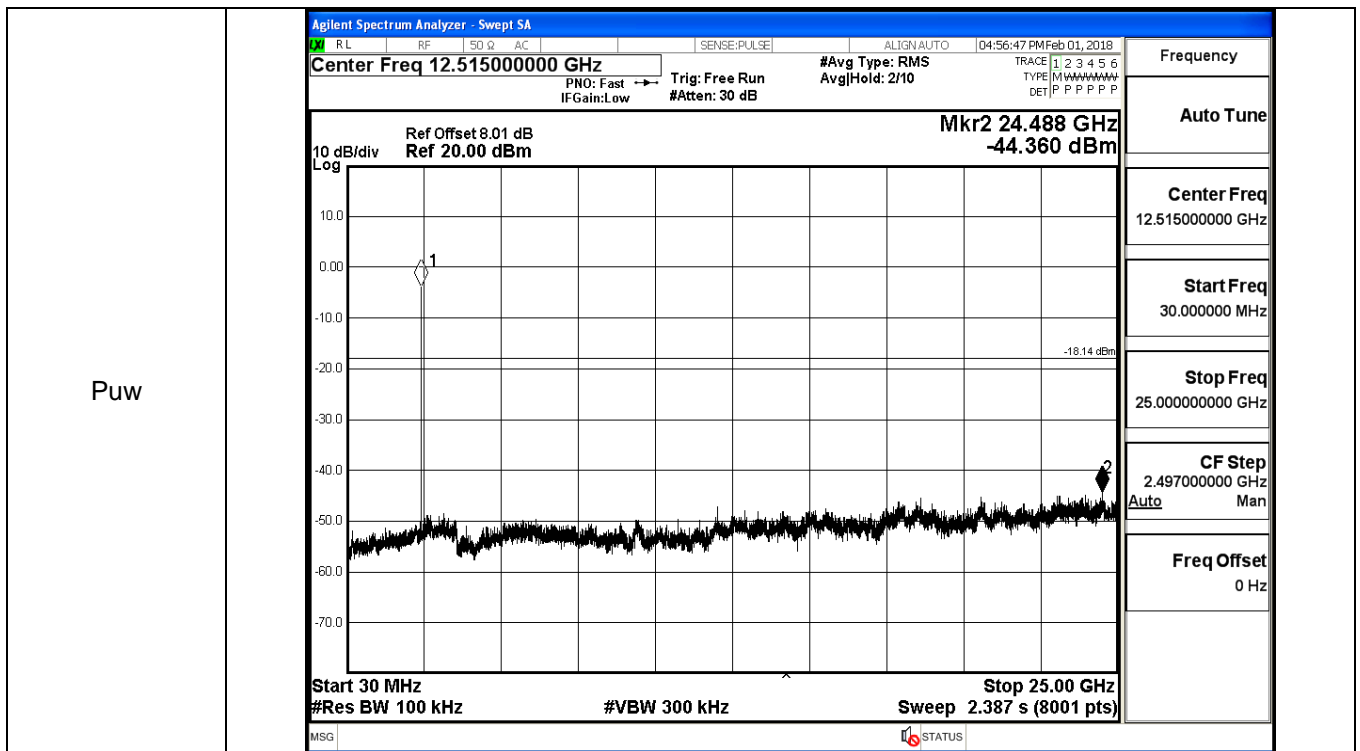


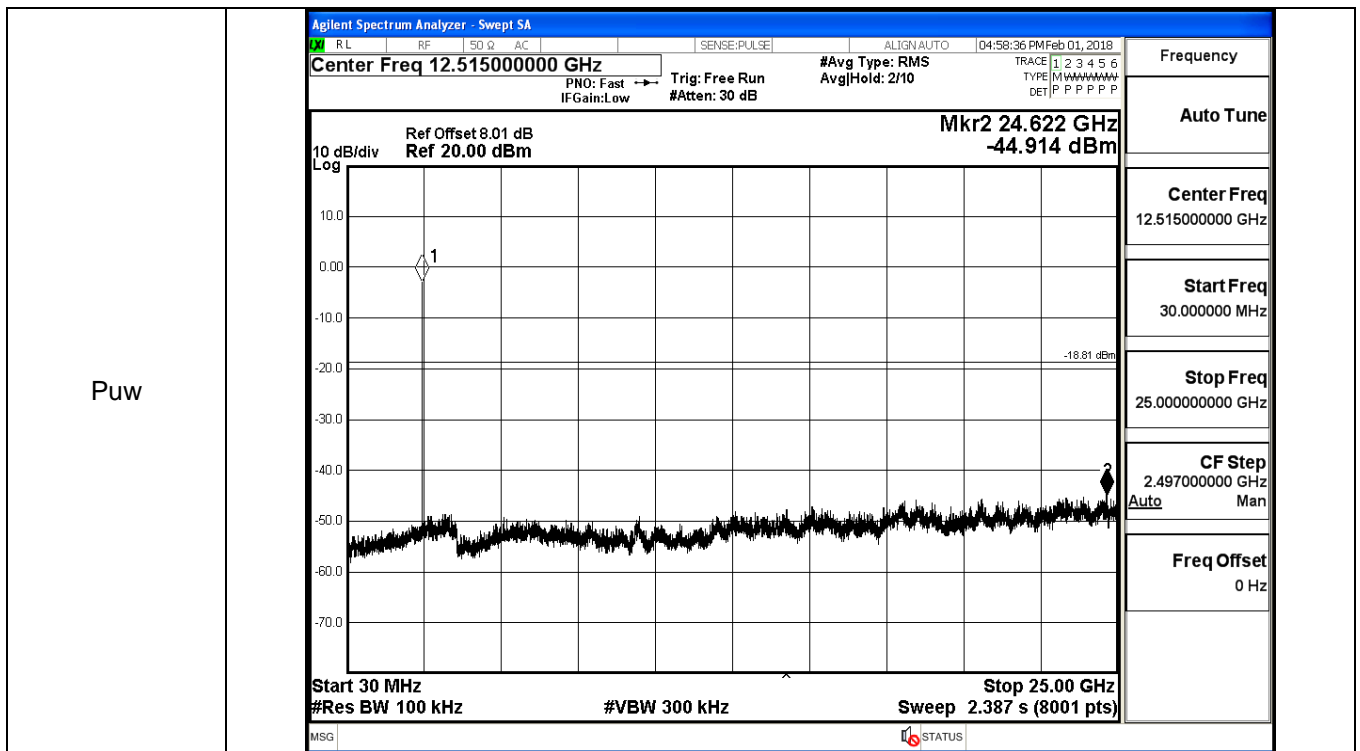








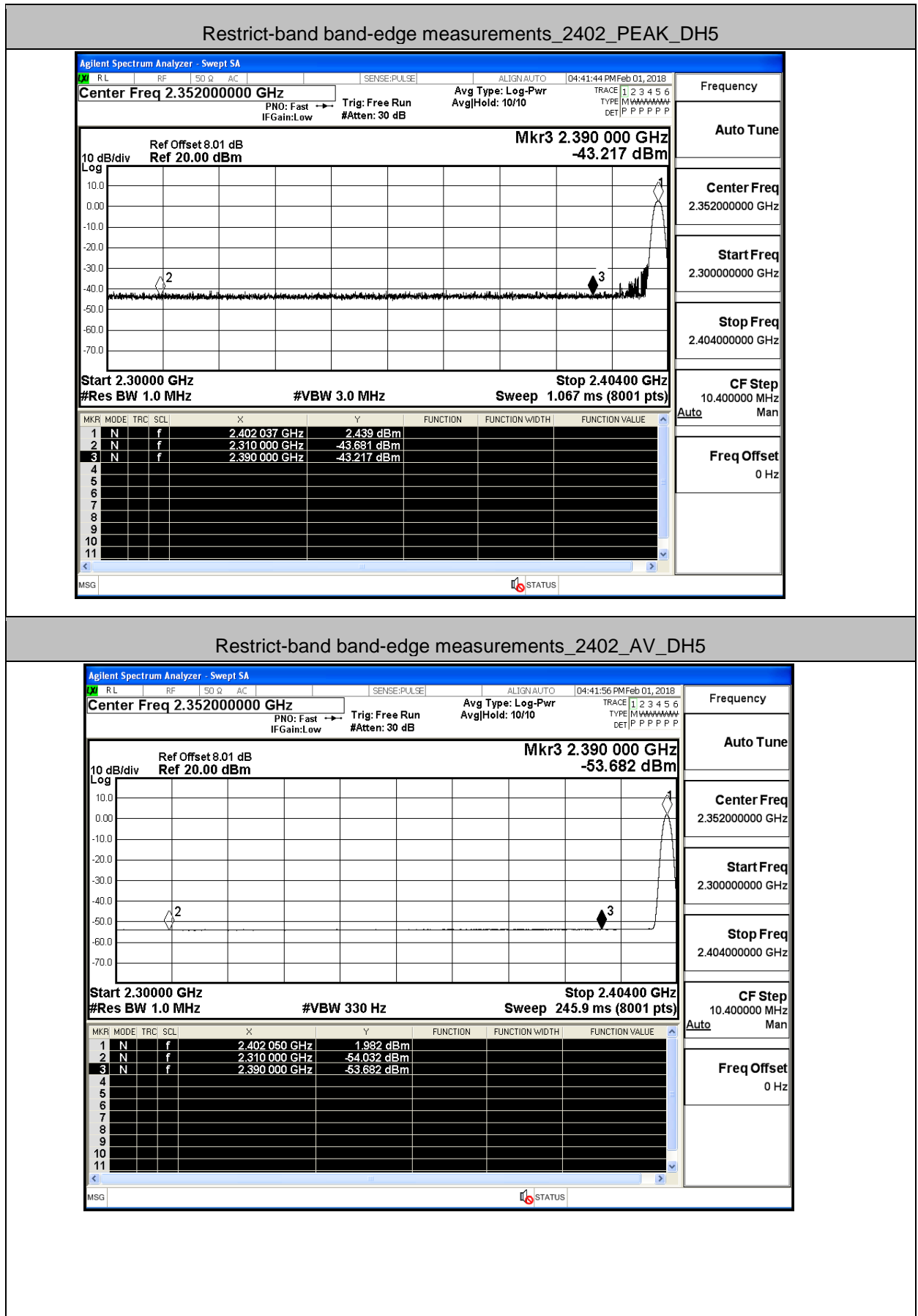




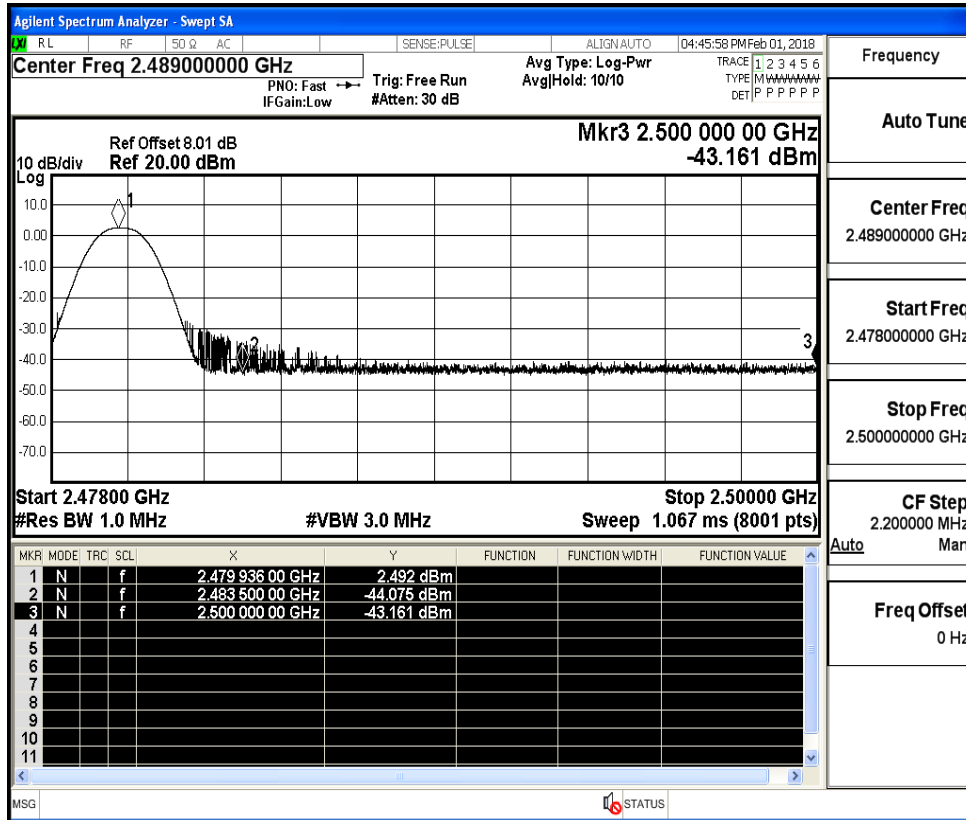
. Appendix H):Restrict-band band-edge measurements**Result Table**

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detect or	Limit [dBuV/m]	Verdi
GFSK_DH5	On	2310.0	-43.68	2	0	51.58	PEAK	74	PASS
GFSK_DH5	On	2310.0	-54.03	2	0	41.23	AV	54	PASS
GFSK_DH5	On	2390.0	-43.22	2	0	52.04	PEAK	74	PASS
GFSK_DH5	On	2390.0	-53.68	2	0	41.58	AV	54	PASS
GFSK_DH5	On	2483.5	-44.08	2	0	51.18	PEAK	74	PASS
GFSK_DH5	On	2483.5	-53.38	2	0	41.87	AV	54	PASS
GFSK_DH5	On	2500.0	-43.16	2	0	52.10	PEAK	74	PASS
GFSK_DH5	On	2500.0	-53.35	2	0	41.91	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2310.0	-44.44	2	0	50.81	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2310.0	-54.00	2	0	41.26	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2390.0	-43.92	2	0	51.34	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2390.0	-53.82	2	0	41.44	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2483.5	-43.26	2	0	52.00	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2483.5	-53.36	2	0	41.90	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2500.0	-44.00	2	0	51.26	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2500.0	-53.34	2	0	41.92	AV	54	PASS
8DPSK_3DH5	On	2310.0	-43.34	2	0	51.91	PEAK	74	PASS
8DPSK_3DH5	On	2310.0	-54.02	2	0	41.24	AV	54	PASS
8DPSK_3DH5	On	2390.0	-43.05	2	0	52.21	PEAK	74	PASS
8DPSK_3DH5	On	2390.0	-53.62	2	0	41.63	AV	54	PASS
8DPSK_3DH5	On	2483.5	-43.09	2	0	52.16	PEAK	74	PASS
8DPSK_3DH5	On	2483.5	-53.35	2	0	41.91	AV	54	PASS
8DPSK_3DH5	On	2500.0	-43.51	2	0	51.75	PEAK	74	PASS
8DPSK_3DH5	On	2500.0	-53.38	2	0	41.88	AV	54	PASS

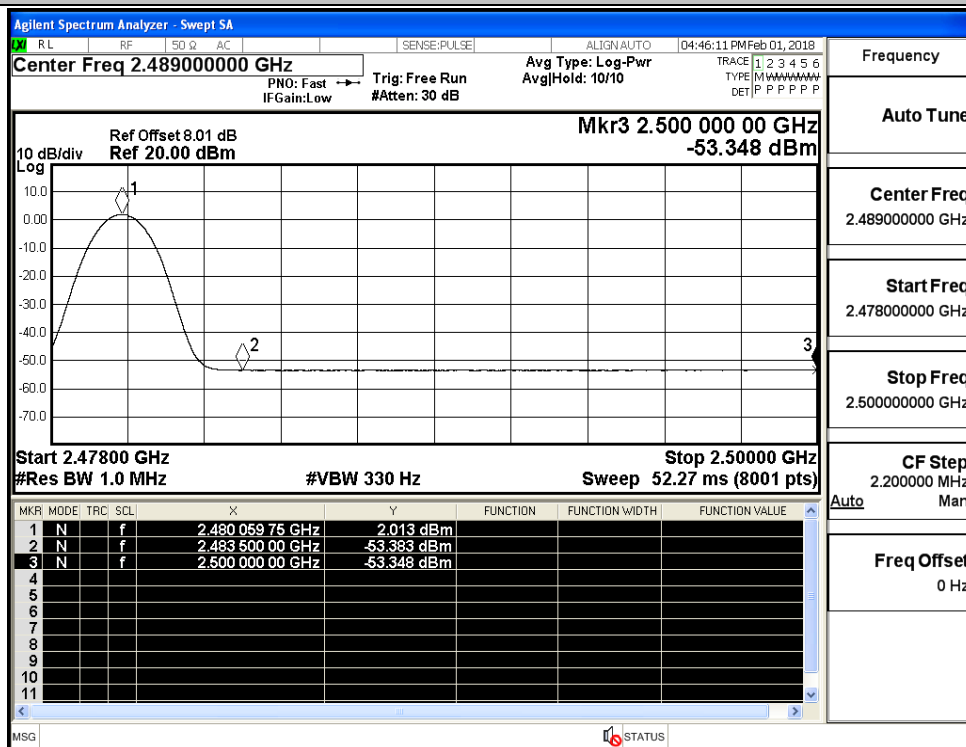
Test Graph



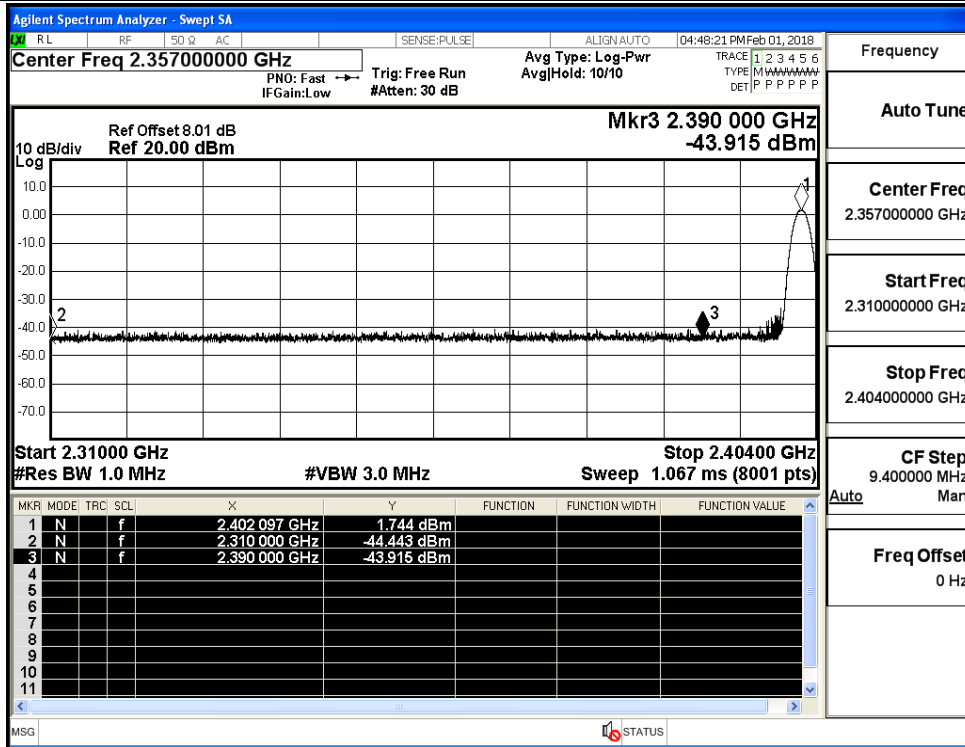
Restrict-band band-edge measurements_2480_PEAK_DH5



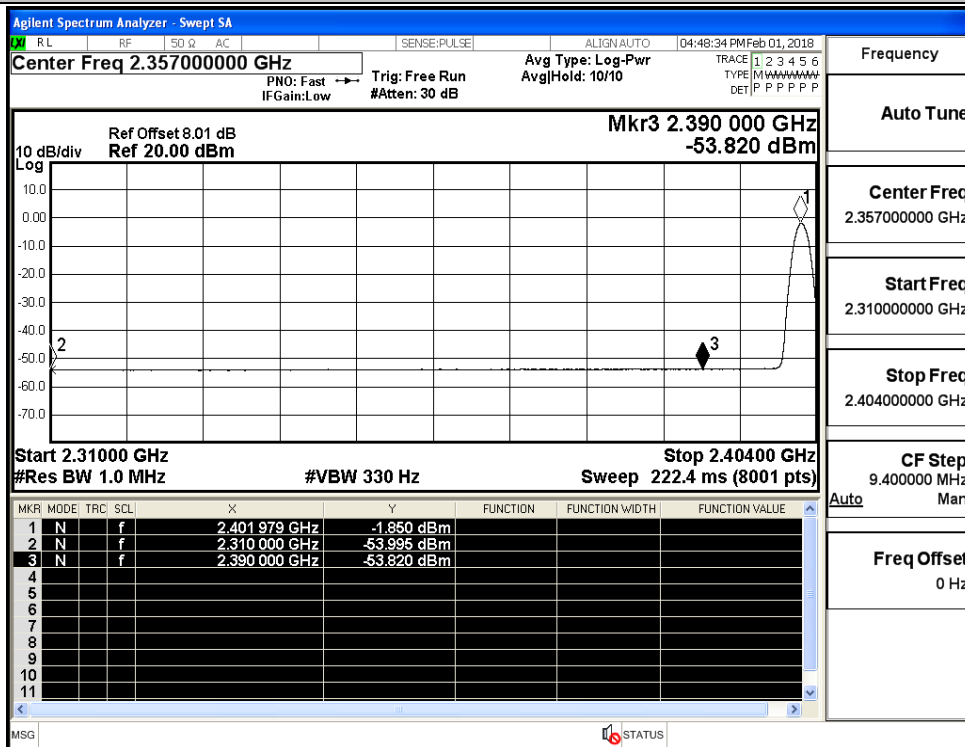
Restrict-band band-edge measurements_2480_AV_DH5



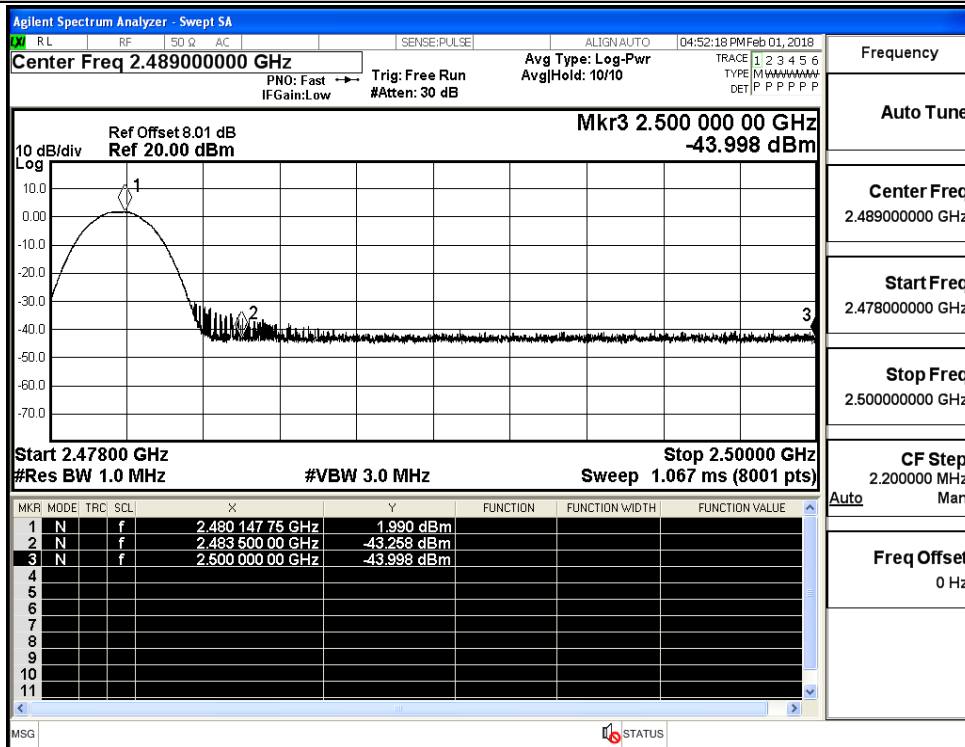
Restrict-band band-edge measurements_2402_PEAK_2DH5



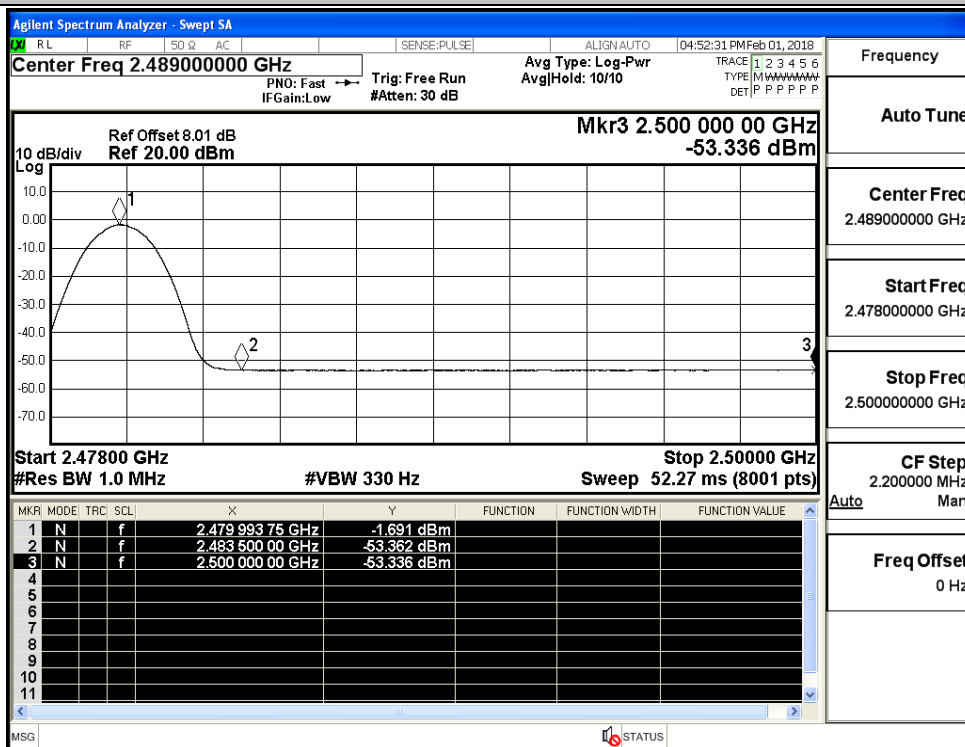
Restrict-band band-edge measurements_2402_AV_2DH5



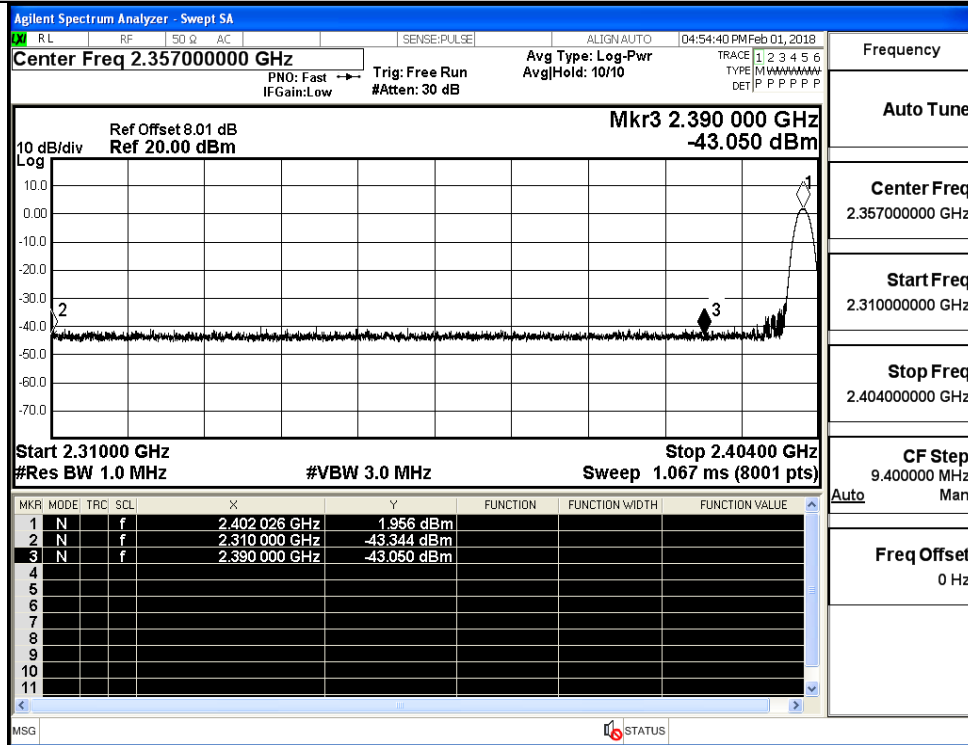
Restrict-band band-edge measurements_2480_PEAK_2DH5



Restrict-band band-edge measurements_2480_AV_2DH5



Restrict-band band-edge measurements_2402_PEAK_3DH5



Restrict-band band-edge measurements_2402_AV_3DH5

