

Appendix A RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: MICRO EARPIECE

Trade Mark: N/A

Test Model: RT10

FCC ID: 2ATOY-RT10

Environmental Conditions

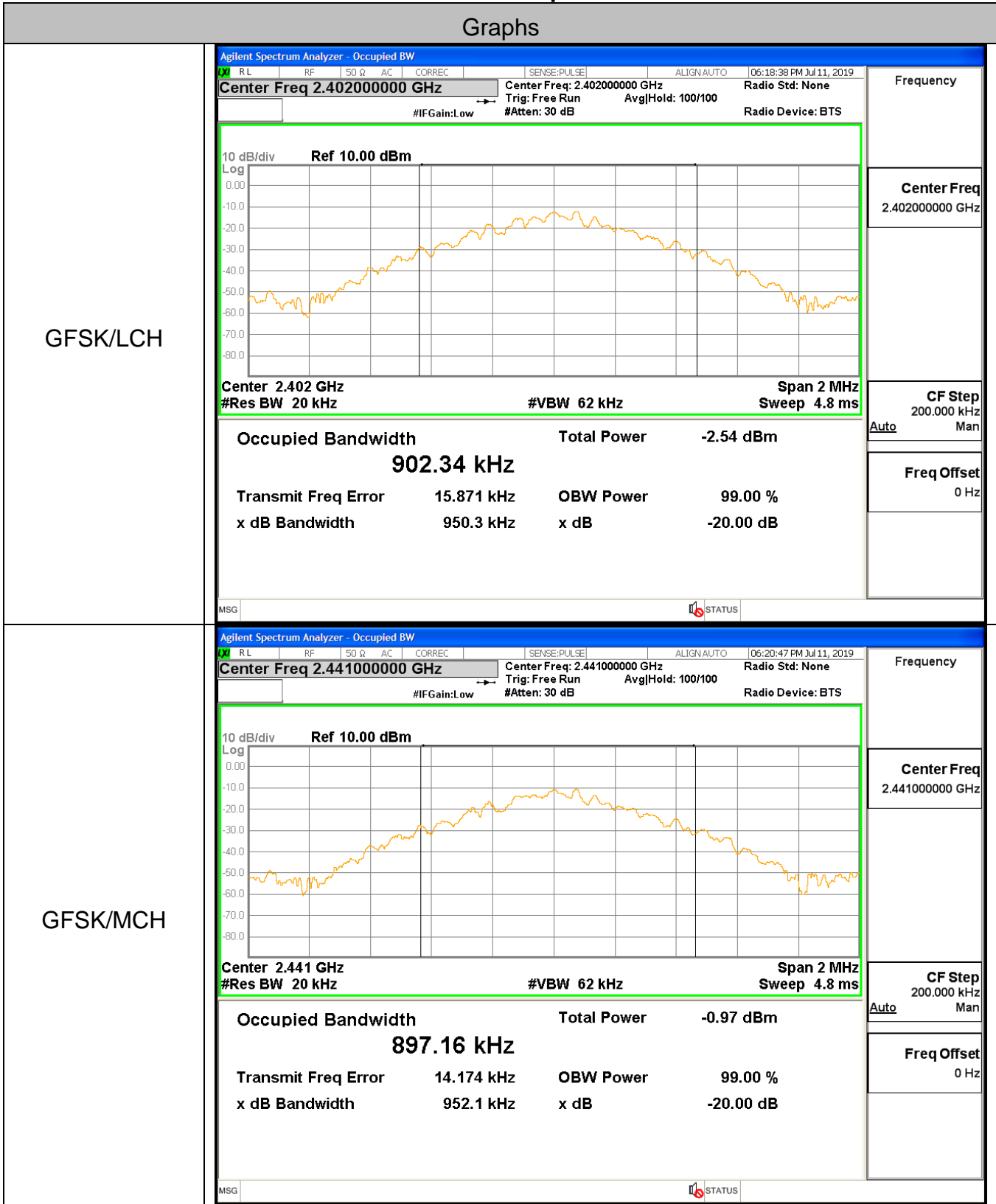
Temperature:	22.7° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

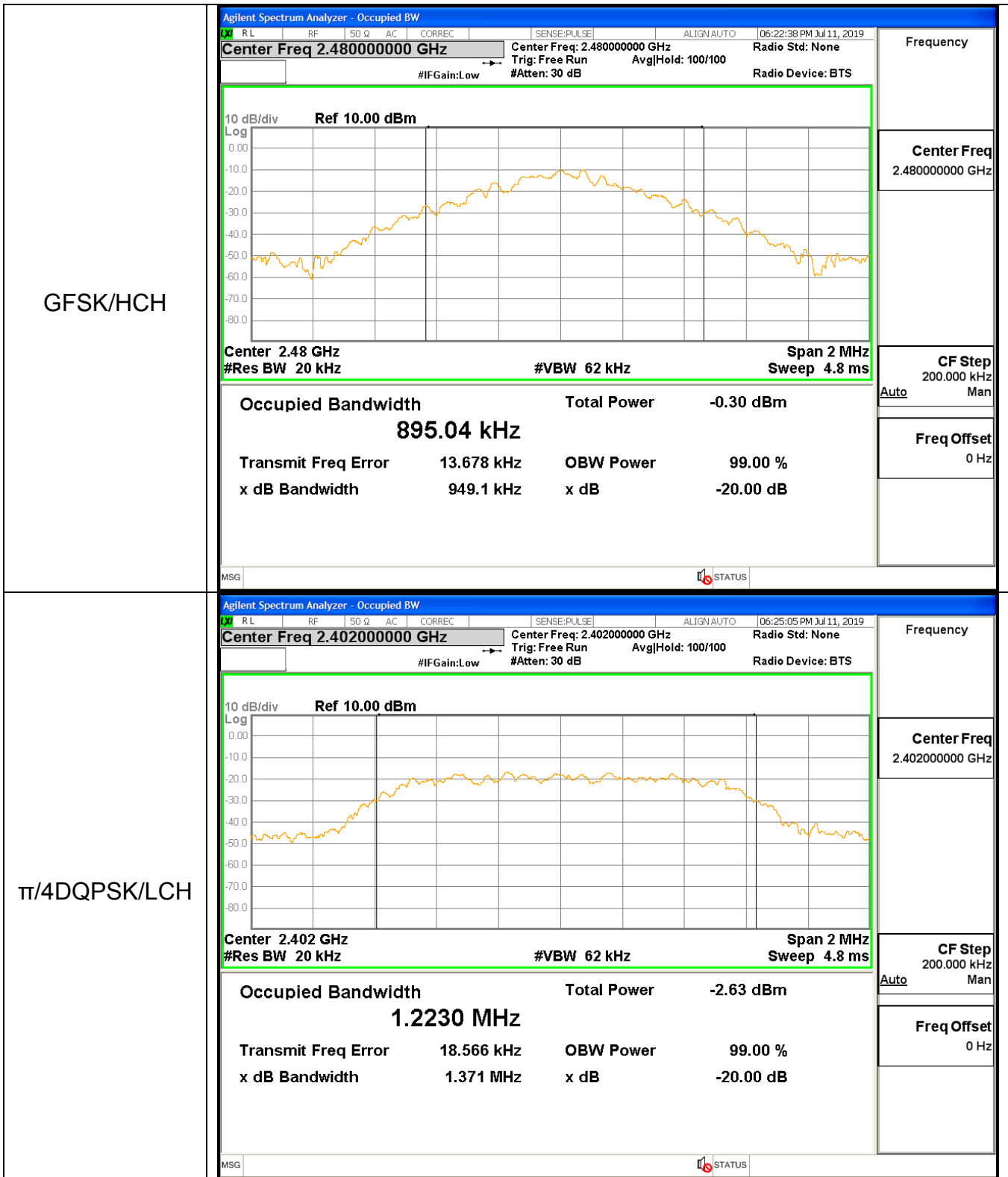
A.1 20 dB Bandwidth

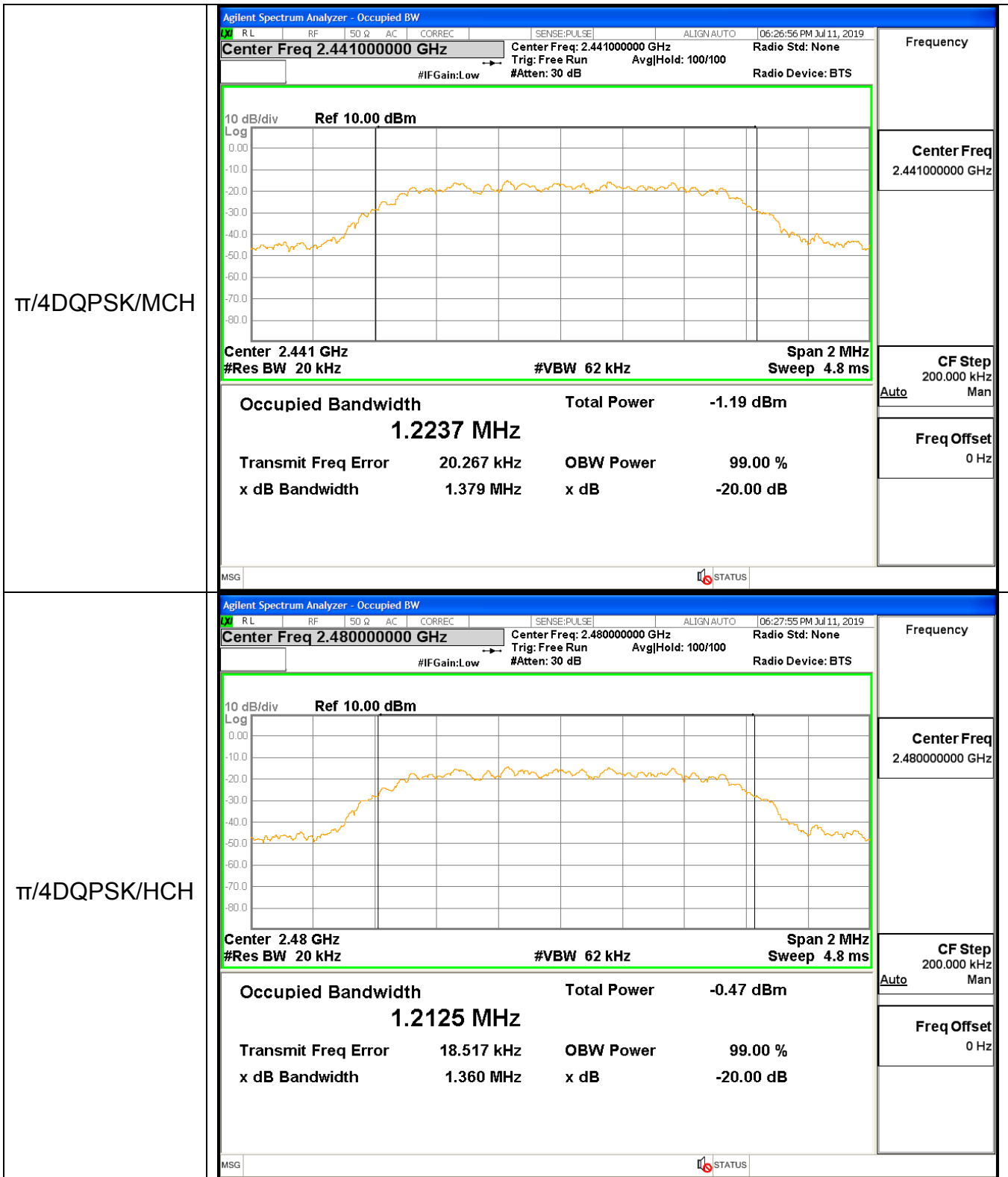
Mode	Channel.	20dB Bandwidth [MHz]	Limit(MHz)	Verdict
GFSK	LCH	0.950	Not Specified	PASS
GFSK	MCH	0.952	Not Specified	PASS
GFSK	HCH	0.949	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.371	Not Specified	PASS
$\pi/4$ DQPSK	MCH	1.379	Not Specified	PASS
$\pi/4$ DQPSK	HCH	1.360	Not Specified	PASS
8DPSK	LCH	1.367	Not Specified	PASS
8DPSK	MCH	1.349	Not Specified	PASS
8DPSK	HCH	1.351	Not Specified	PASS

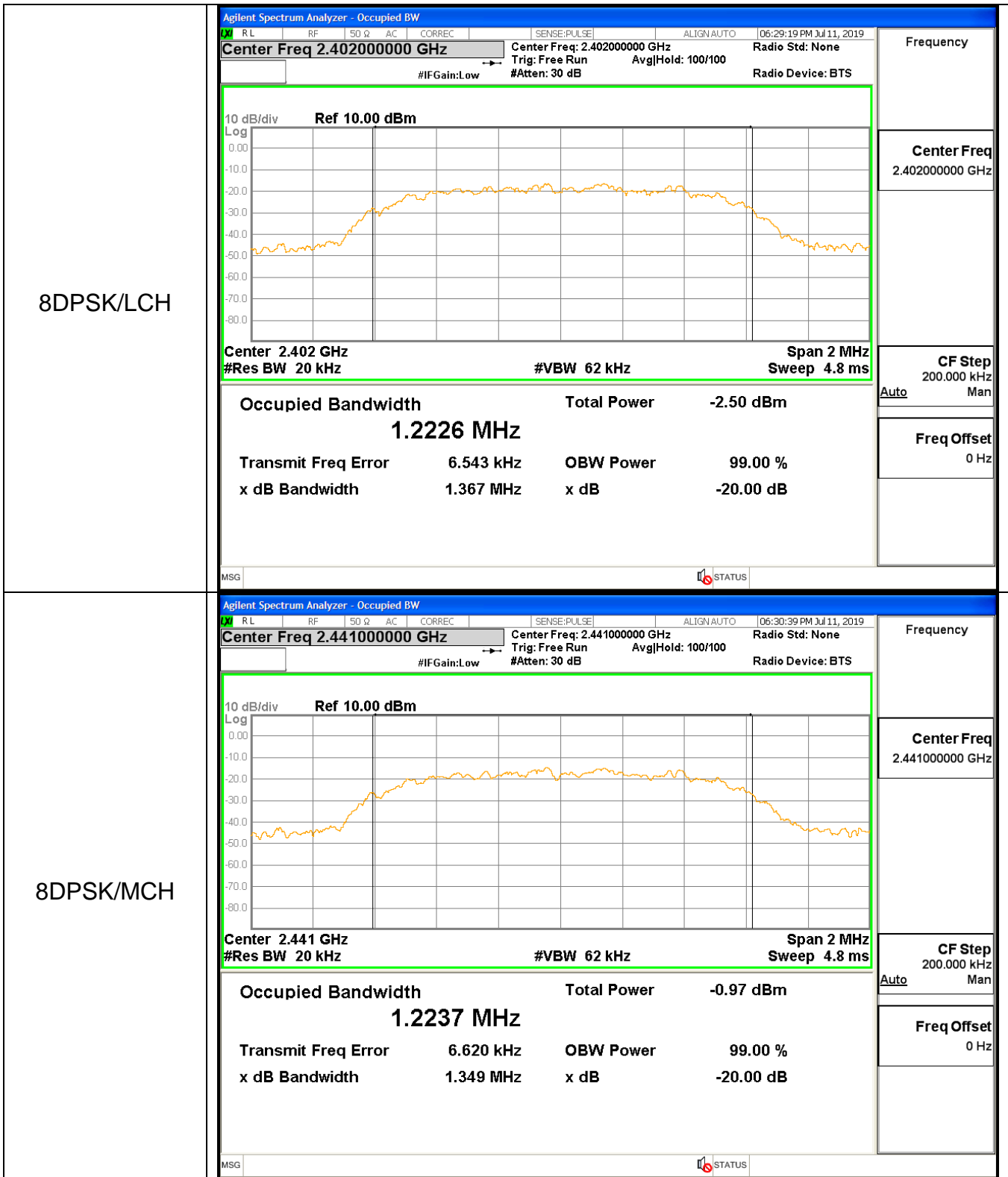
Test Graph

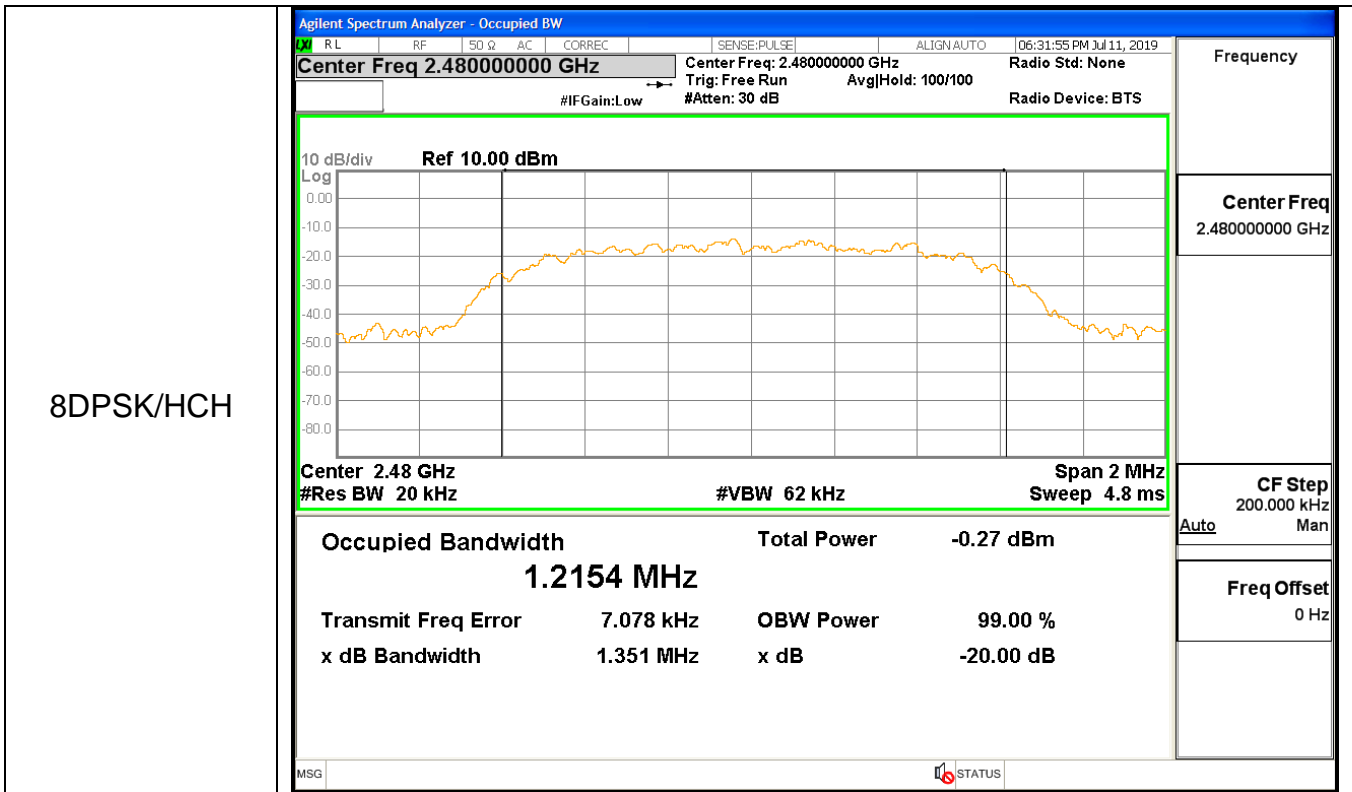
Graphs







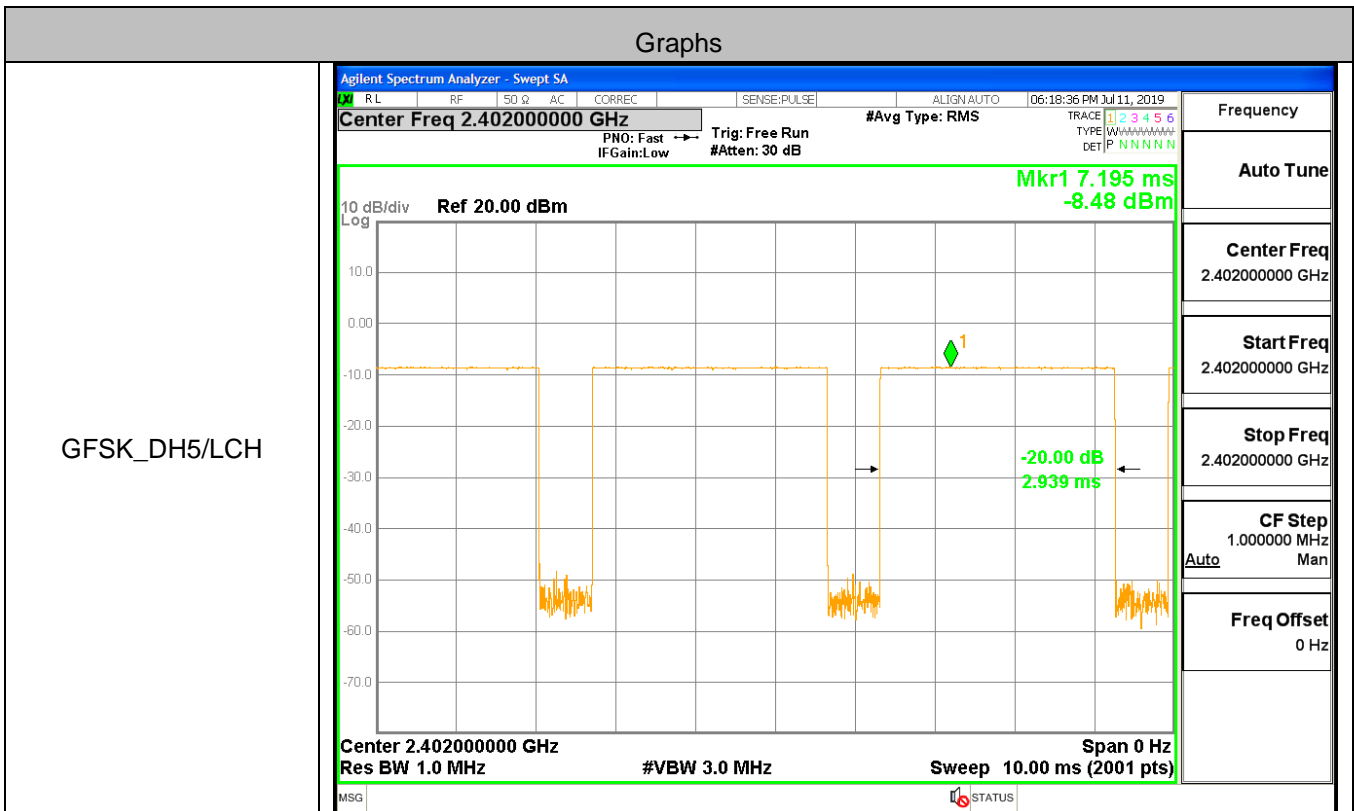


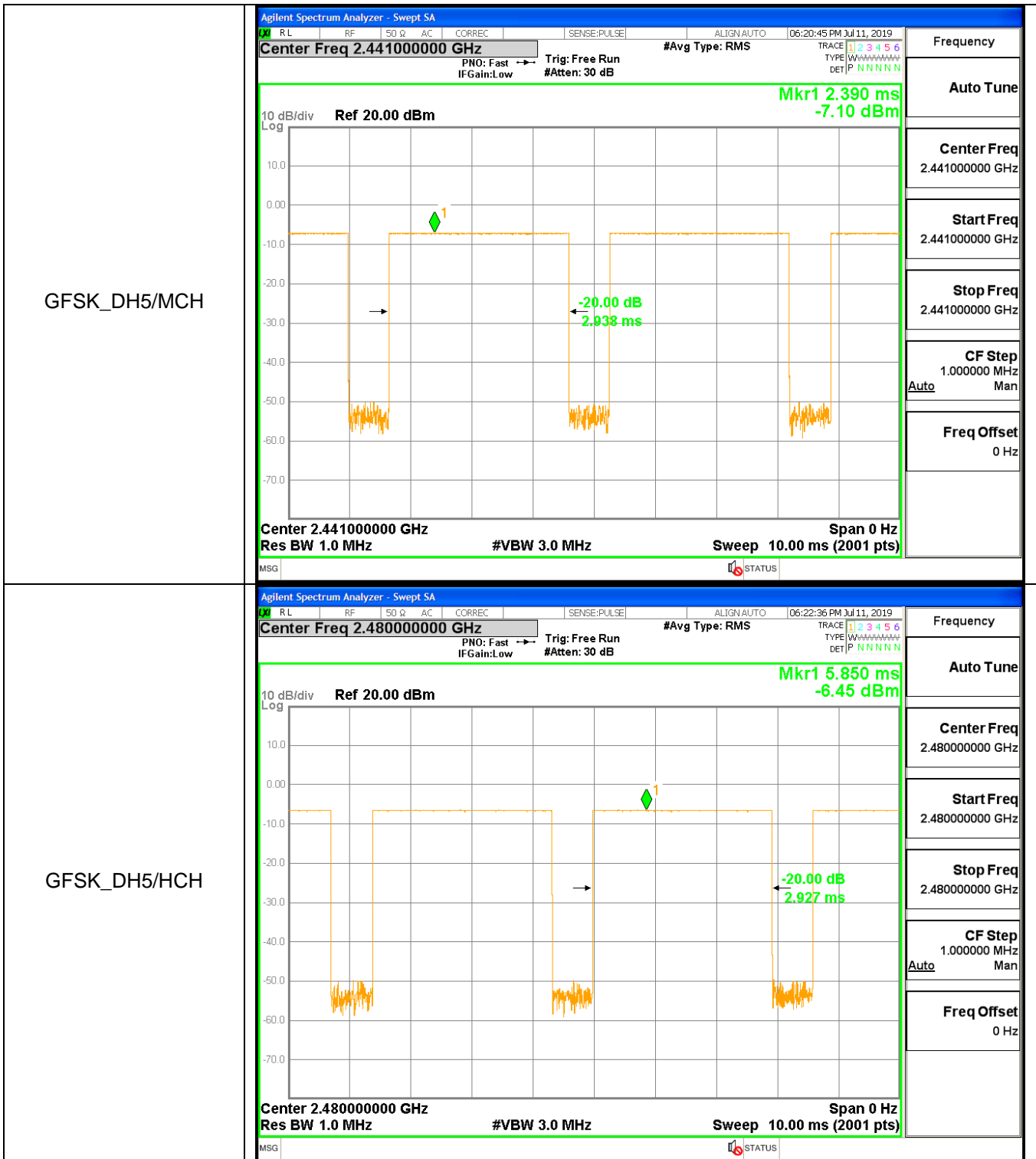


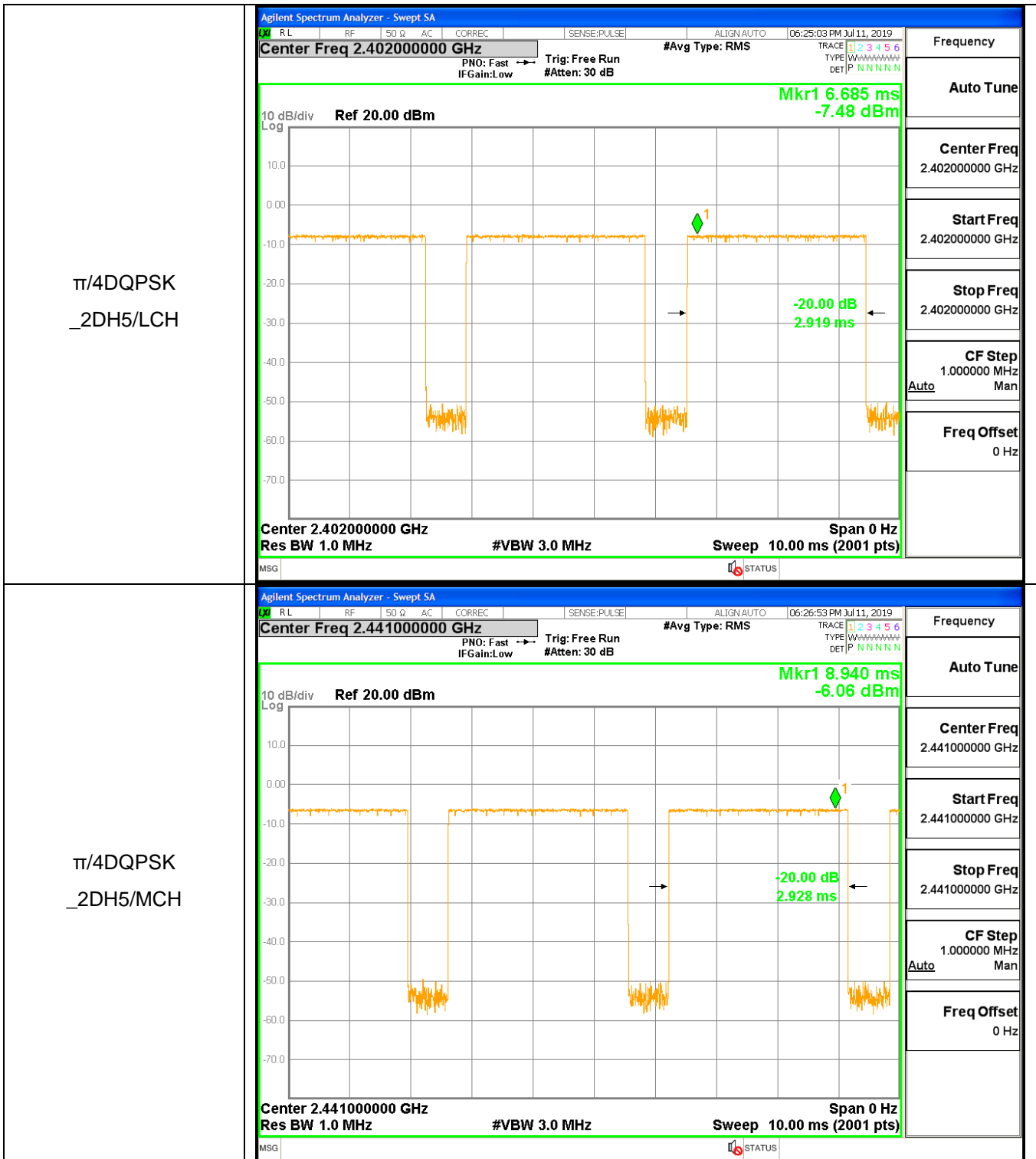
A.2 Dwell Time

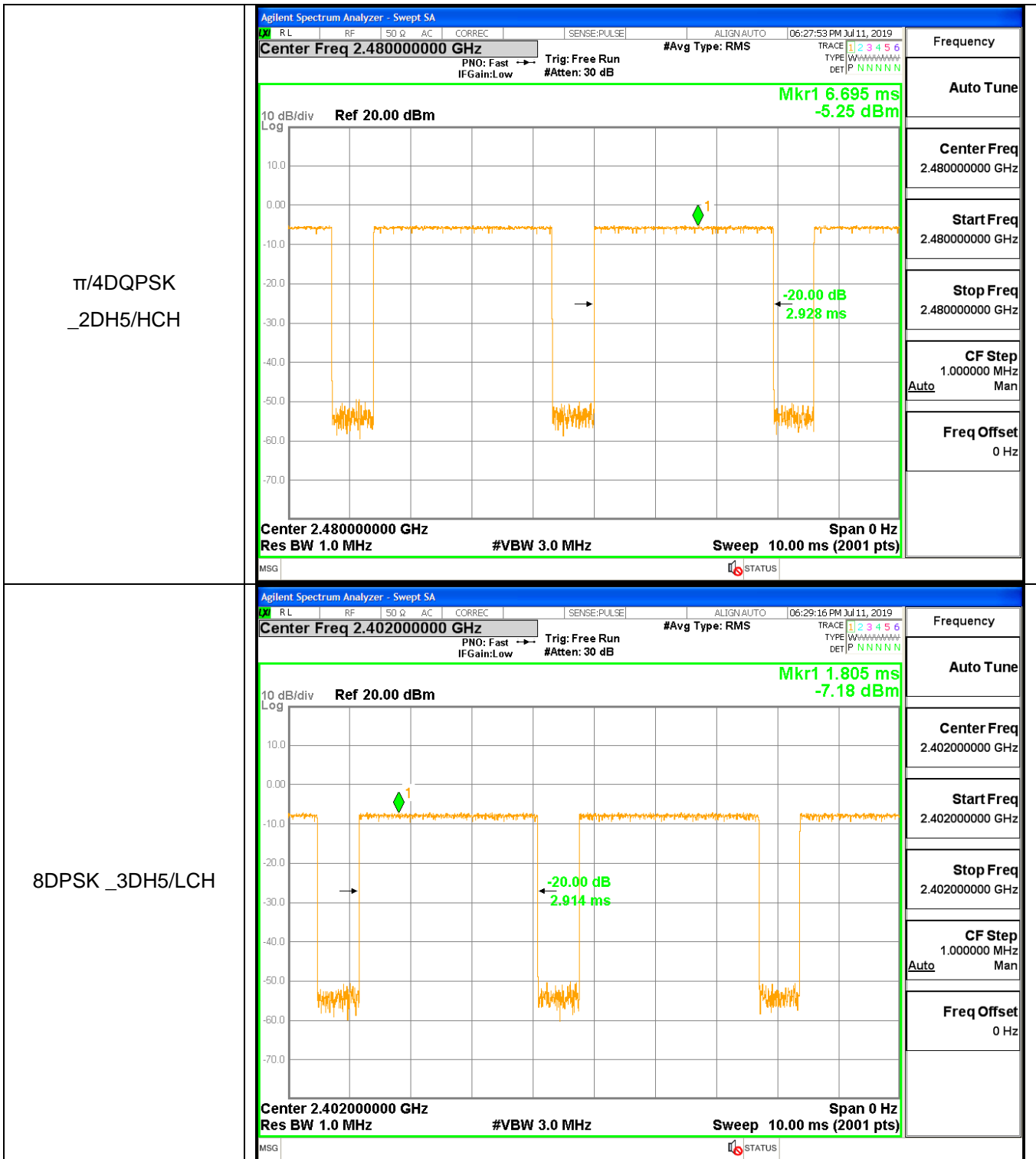
Mode	Packet	Channel	Burst Width [s/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	0.002939	106.7	0.313557	0.4	PASS
GFSK	DH5	MCH	0.002938	106.7	0.313530	0.4	PASS
GFSK	DH5	HCH	0.002927	106.7	0.312315	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	0.002919	106.7	0.311423	0.4	PASS
$\pi/4$ DQPSK	2DH5	MCH	0.002928	106.7	0.312366	0.4	PASS
$\pi/4$ DQPSK	2DH5	HCH	0.002928	106.7	0.312470	0.4	PASS
8DPSK	3DH5	LCH	0.002914	106.7	0.310923	0.4	PASS
8DPSK	3DH5	MCH	0.002934	106.7	0.313071	0.4	PASS
8DPSK	3DH5	HCH	0.002919	106.7	0.311451	0.4	PASS

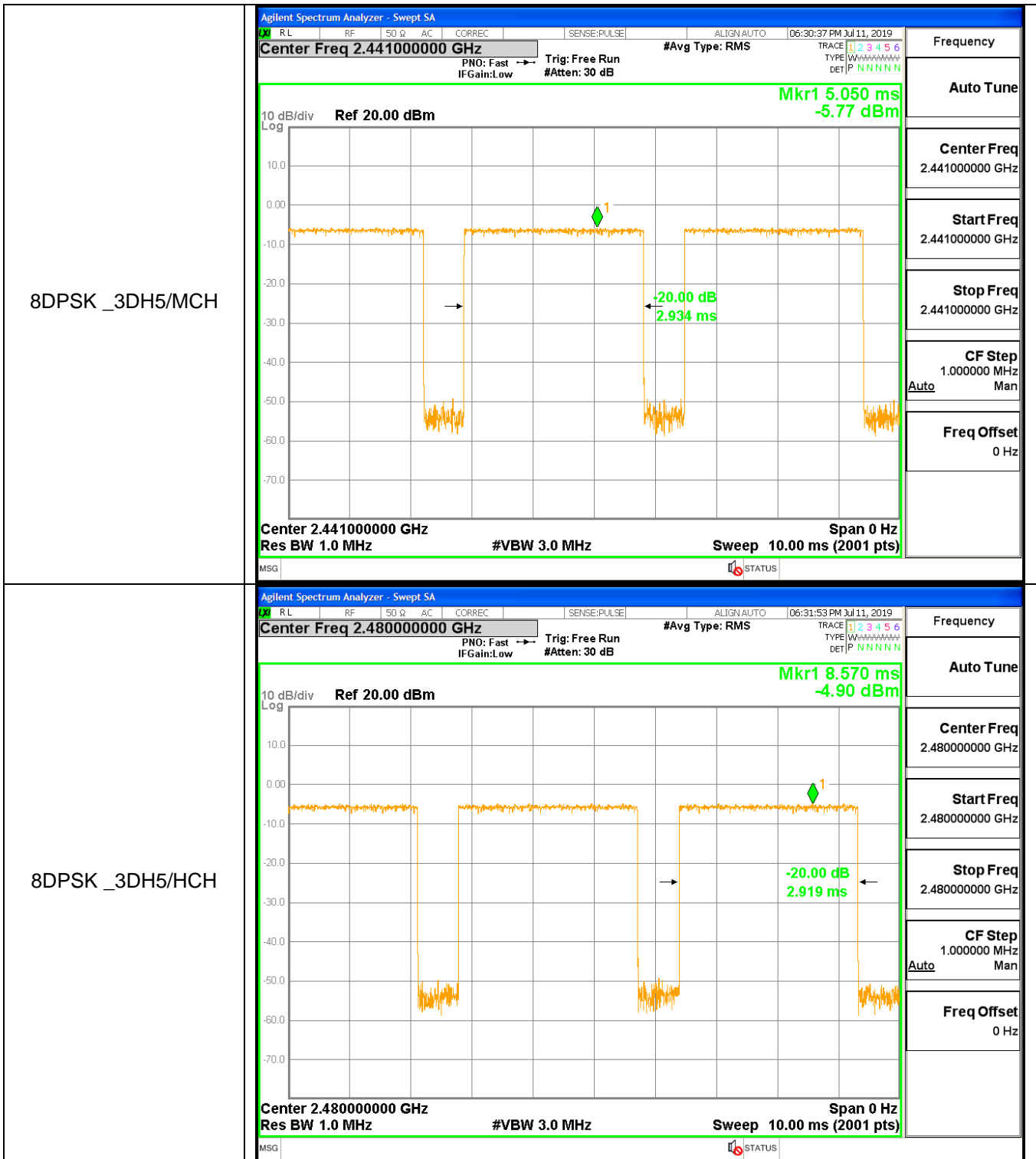
Test Graph







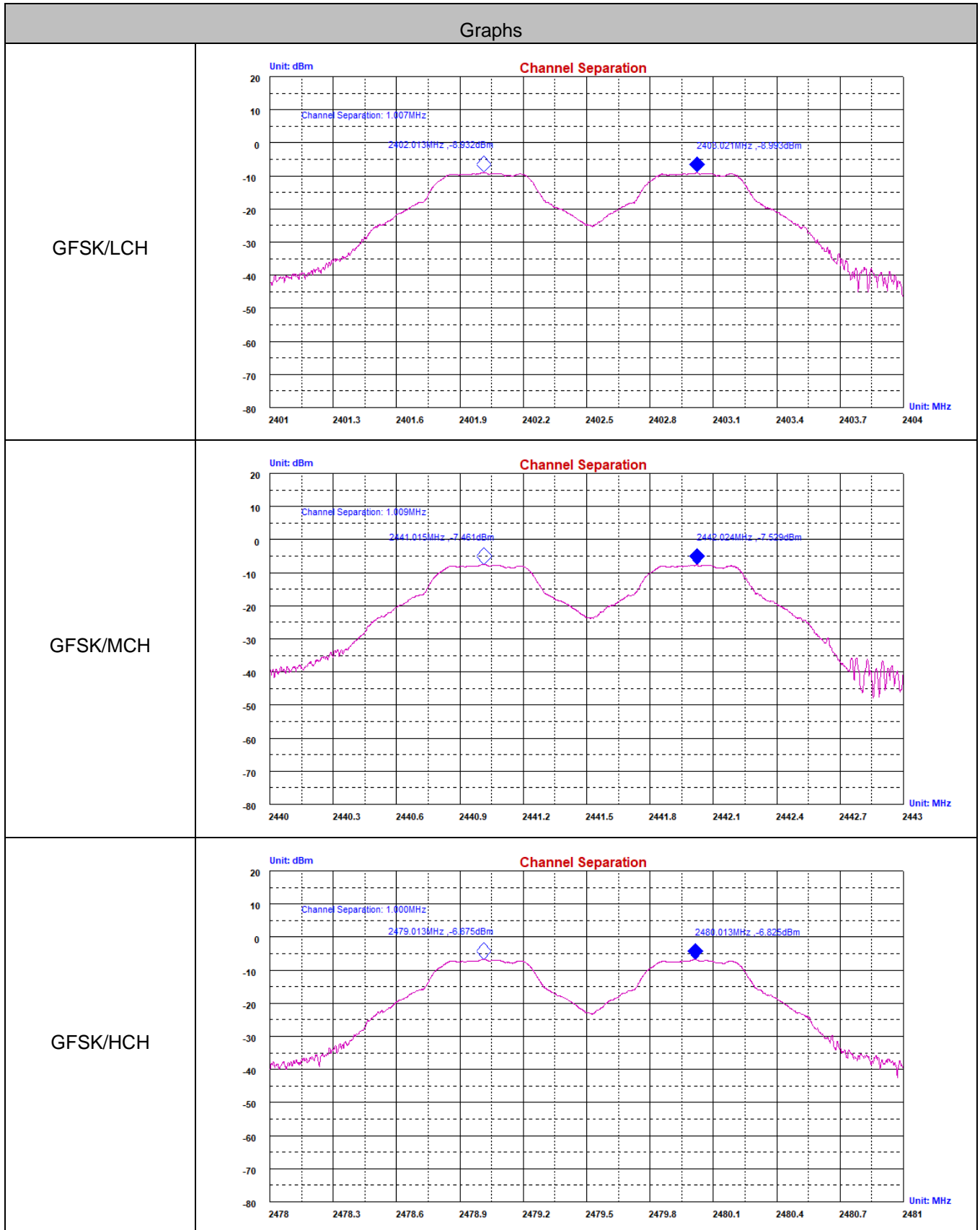


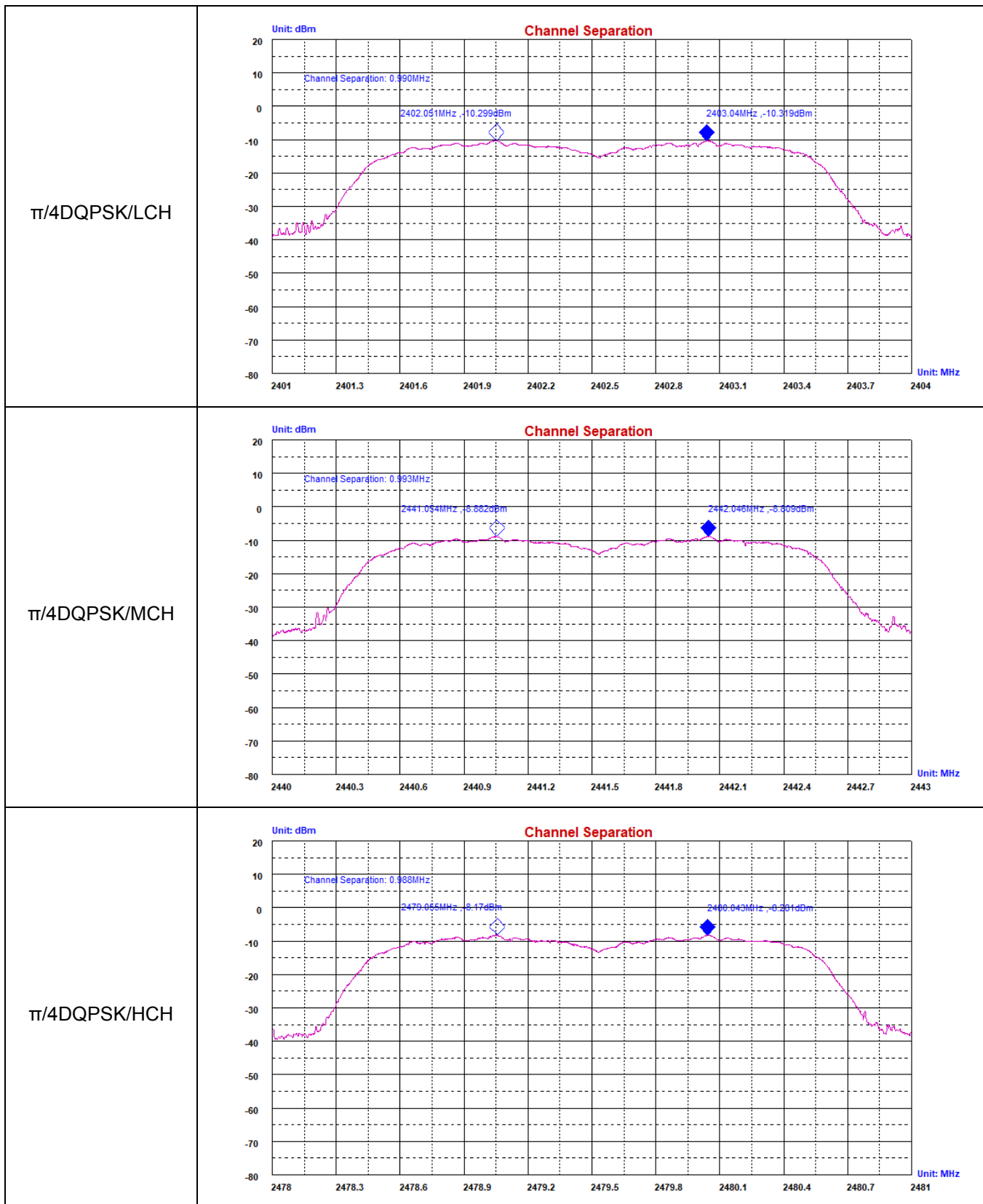


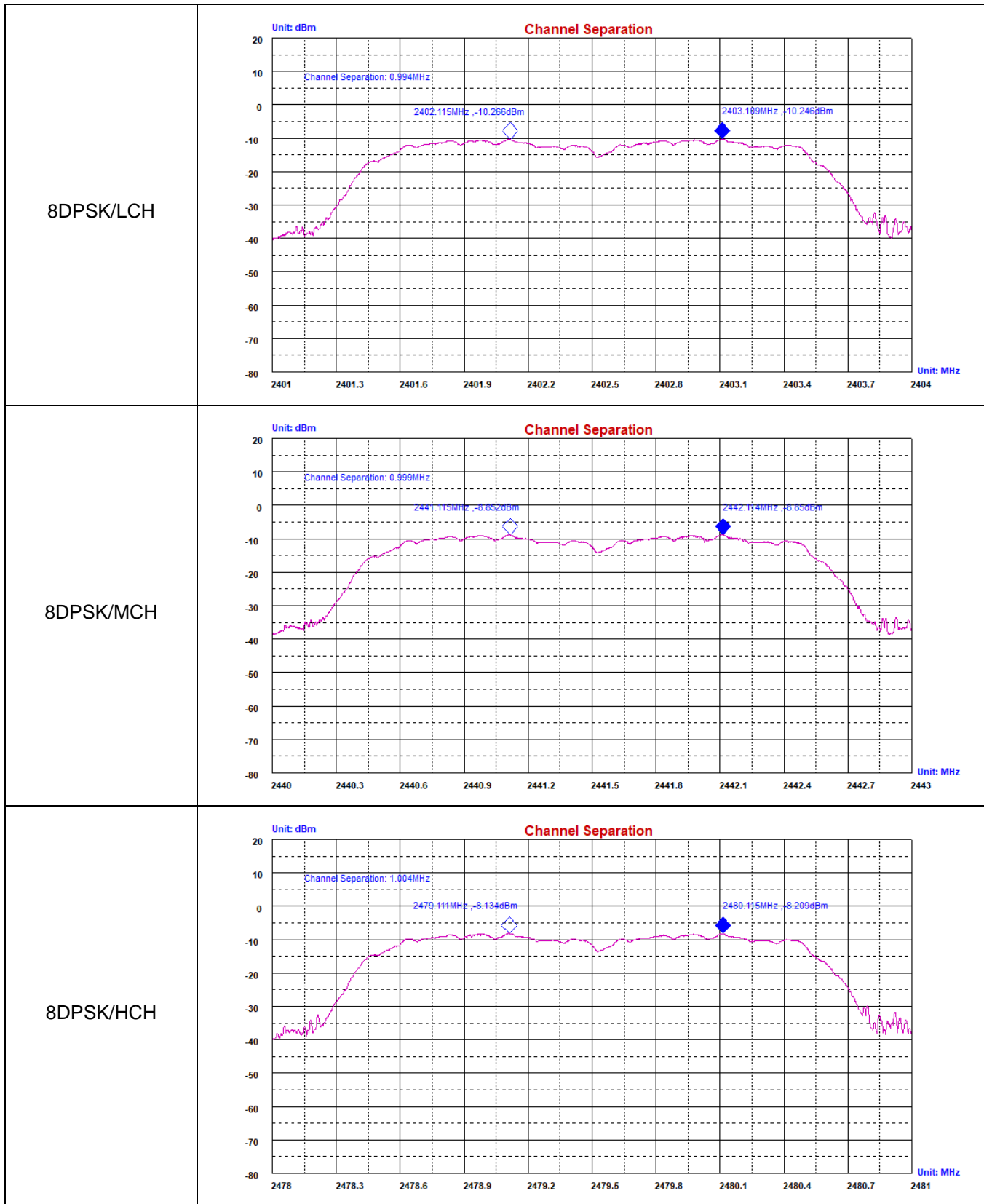
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.007	0.633	PASS
GFSK	MCH	1.009	0.635	PASS
GFSK	HCH	1.000	0.633	PASS
$\pi/4$ DQPSK	LCH	0.990	0.914	PASS
$\pi/4$ DQPSK	MCH	0.993	0.919	PASS
$\pi/4$ DQPSK	HCH	0.988	0.907	PASS
8DPSK	LCH	0.994	0.911	PASS
8DPSK	MCH	0.999	0.899	PASS
8DPSK	HCH	1.004	0.901	PASS

Test Graph



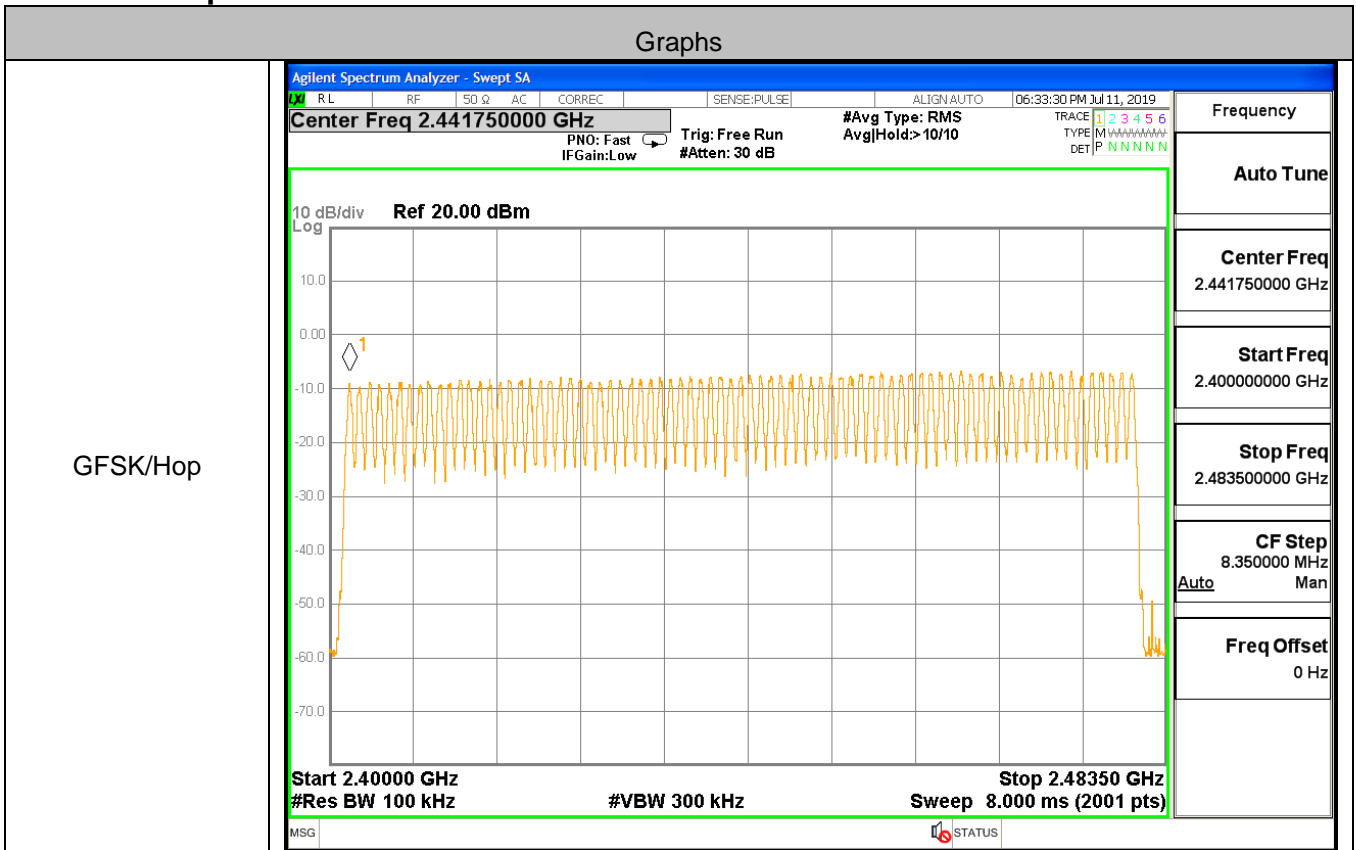


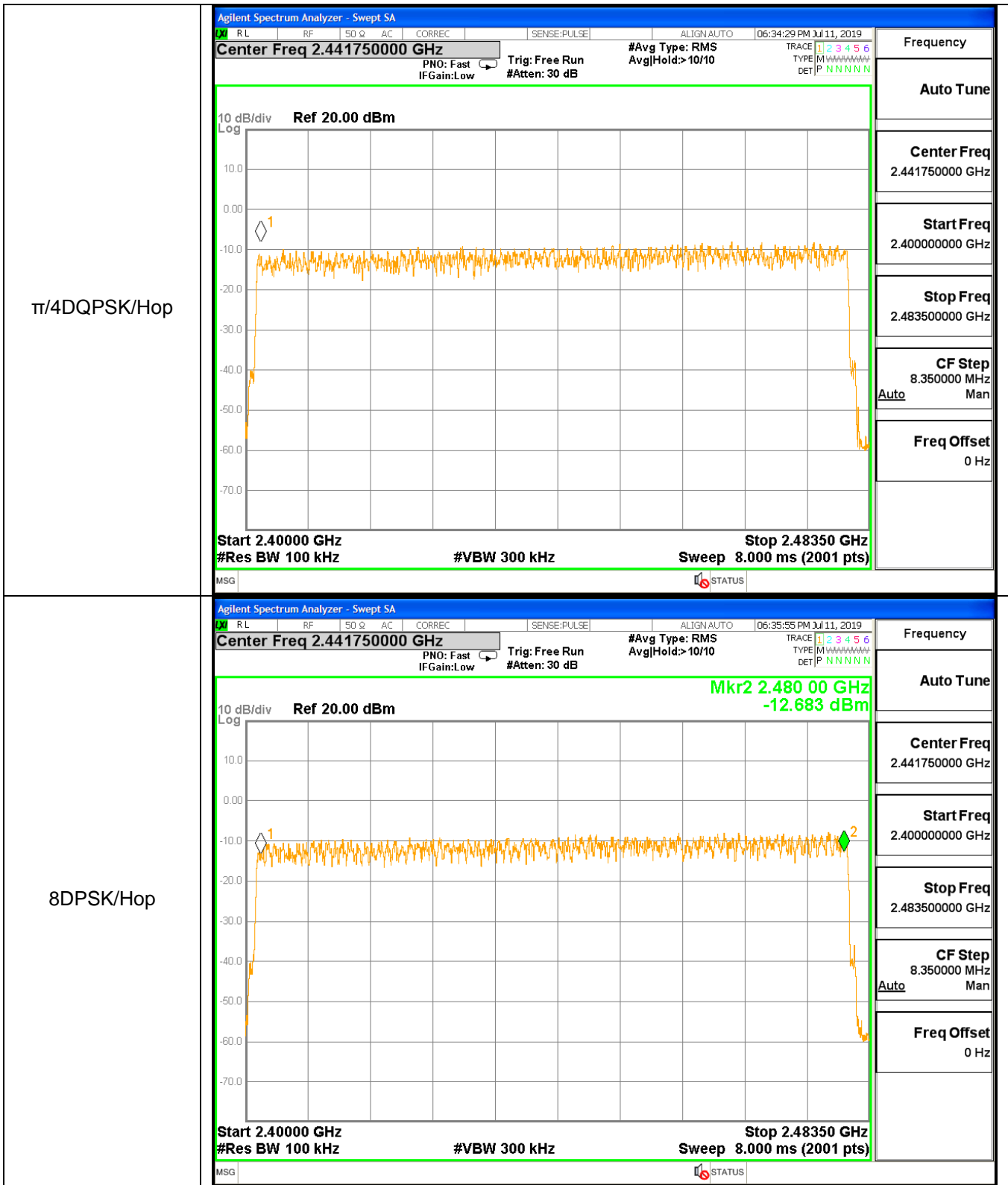


A.4 Hopping Channel Number

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 Graph

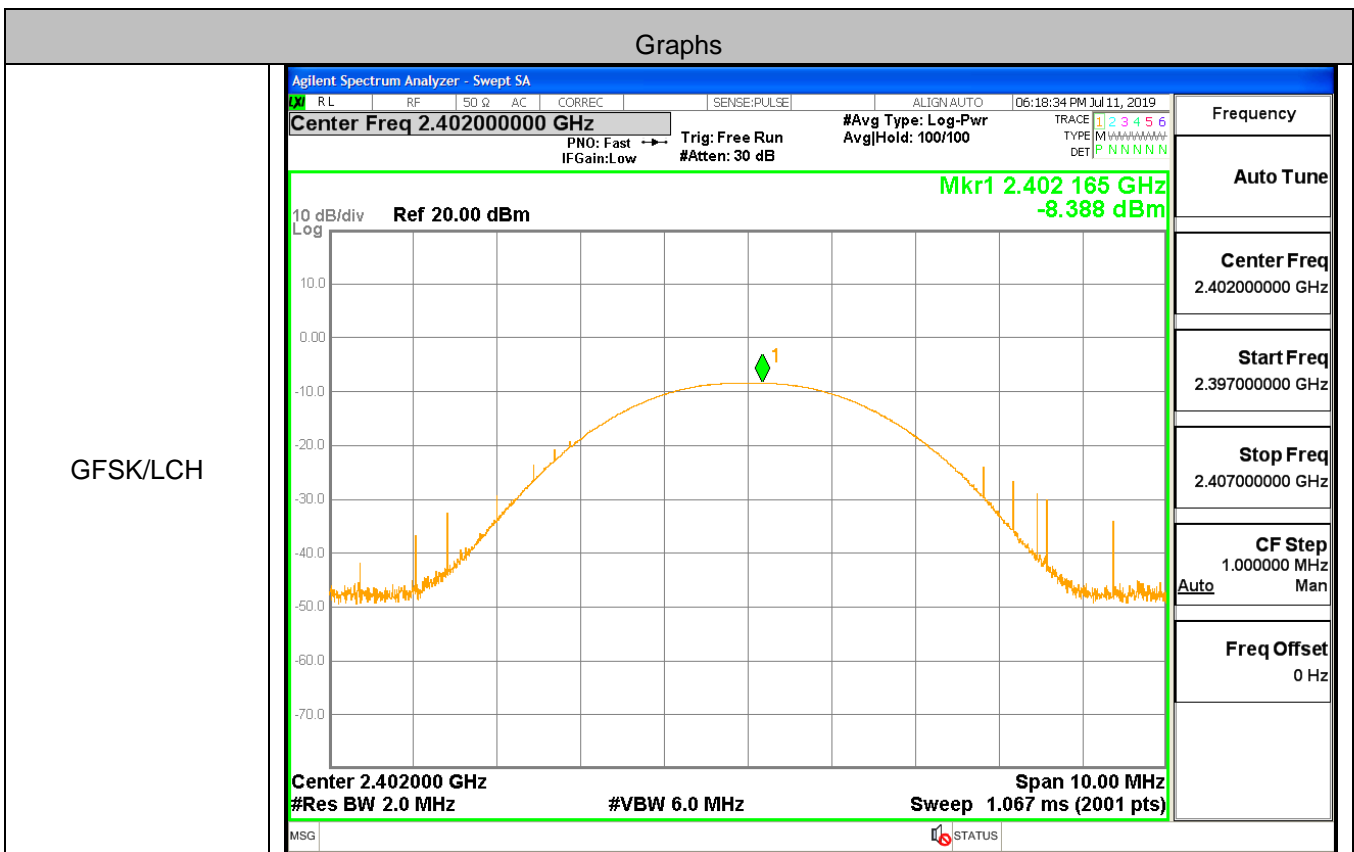


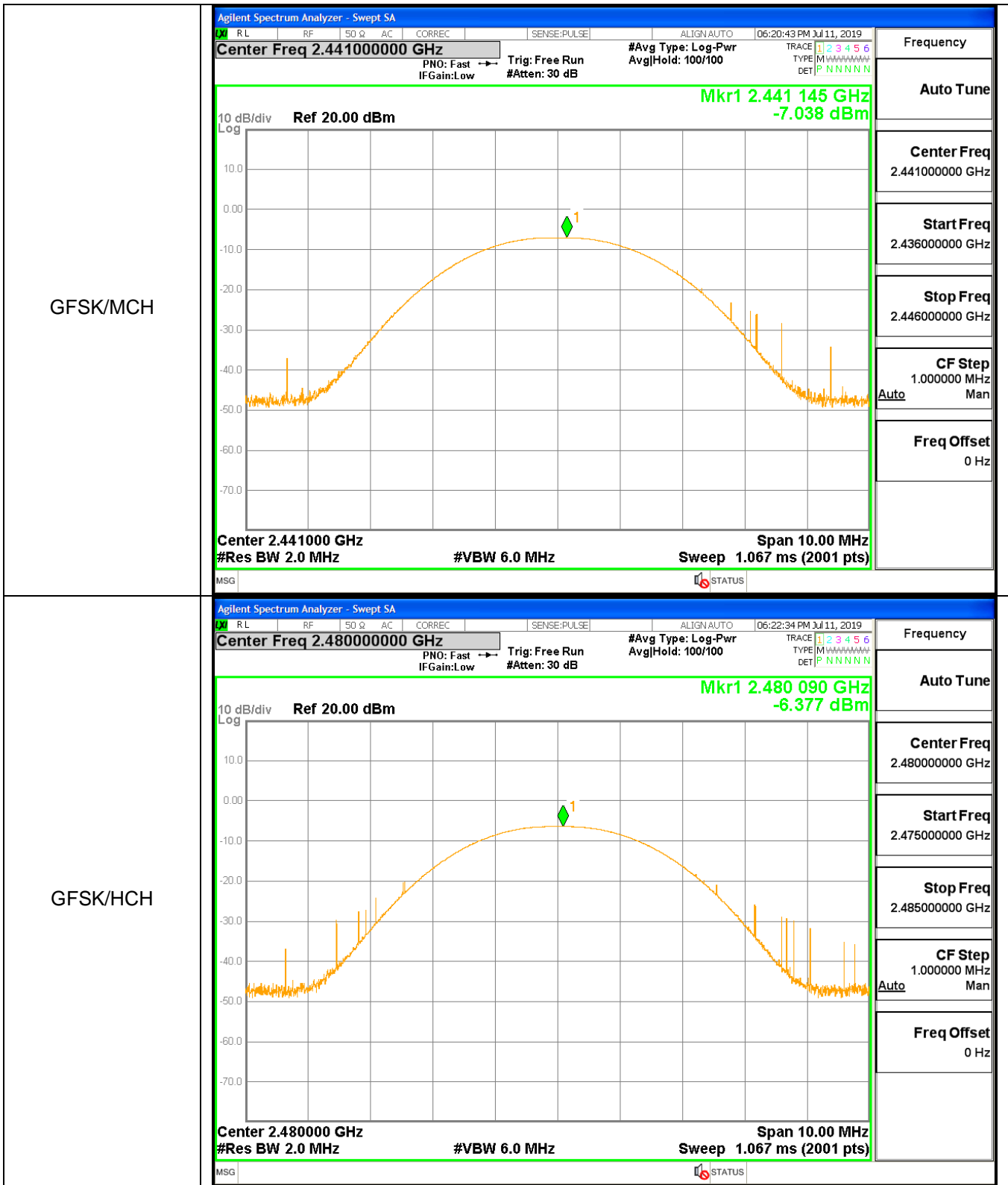


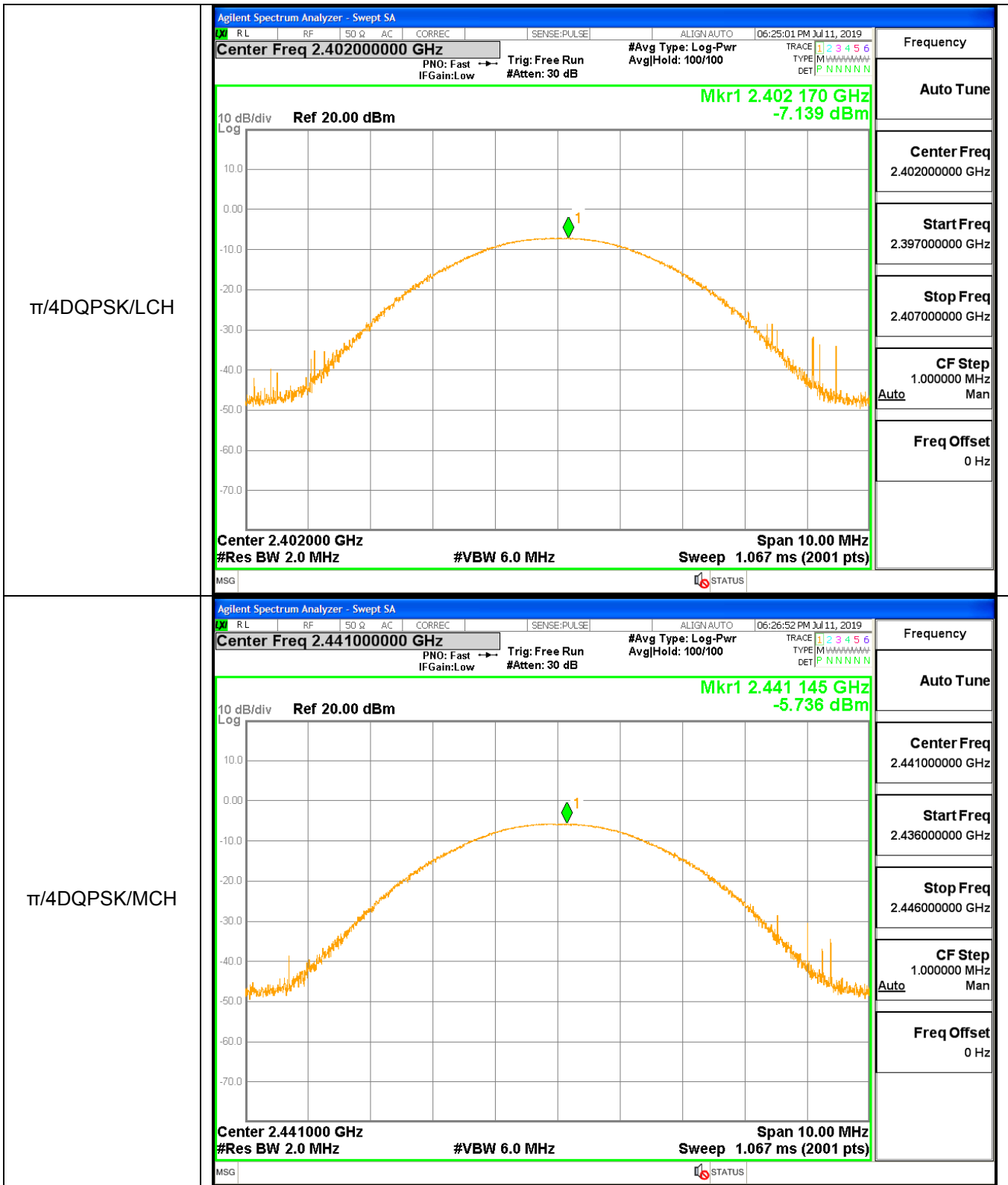
A.5 Conducted Peak Output Power

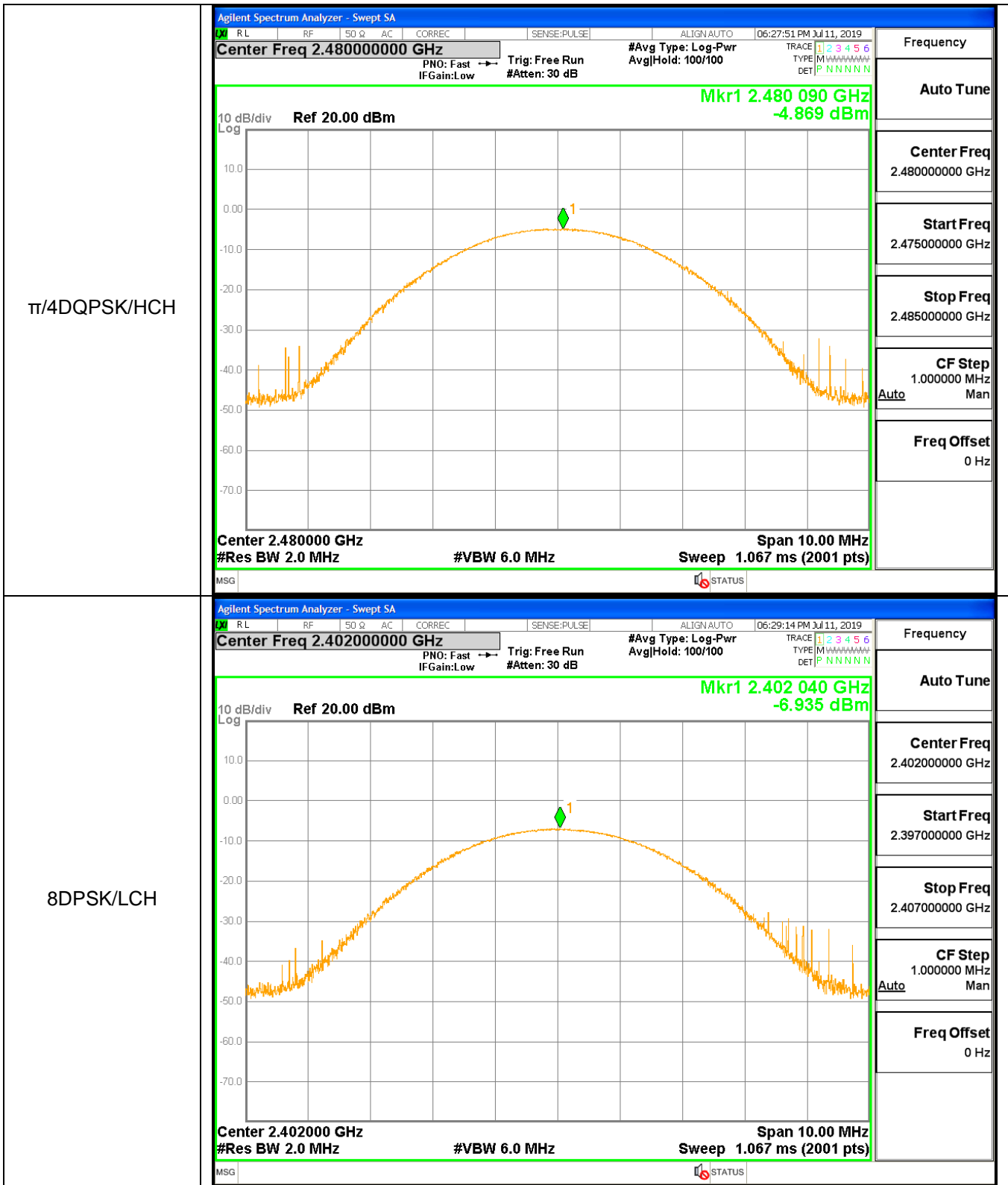
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-8.388	21	PASS
GFSK	MCH	-7.038	21	PASS
GFSK	HCH	-6.377	21	PASS
$\pi/4$ DQPSK	LCH	-7.139	21	PASS
$\pi/4$ DQPSK	MCH	-5.736	21	PASS
$\pi/4$ DQPSK	HCH	-4.869	21	PASS
8DPSK	LCH	-6.935	21	PASS
8DPSK	MCH	-5.531	21	PASS
8DPSK	HCH	-4.568	21	PASS

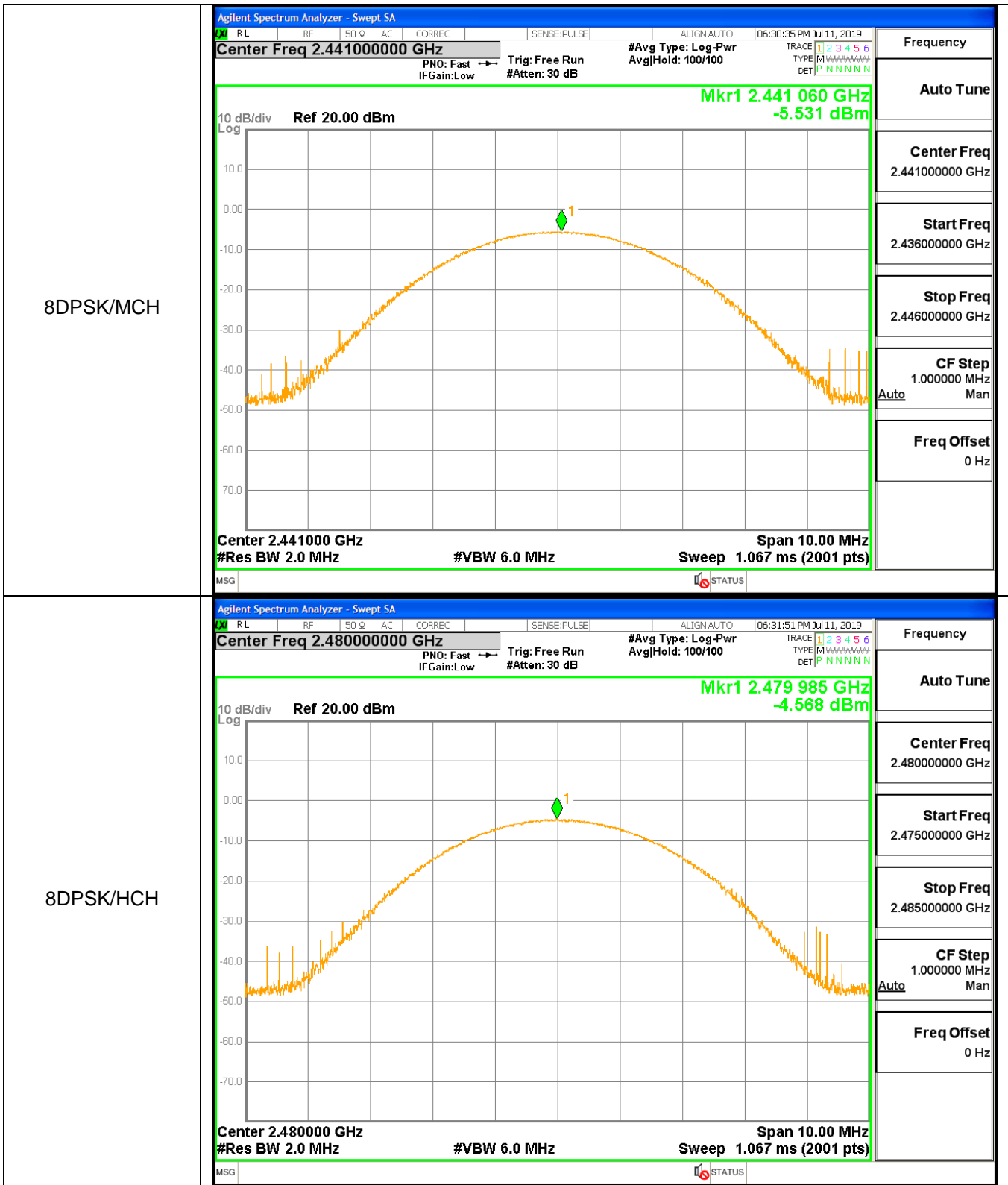
Test Graph









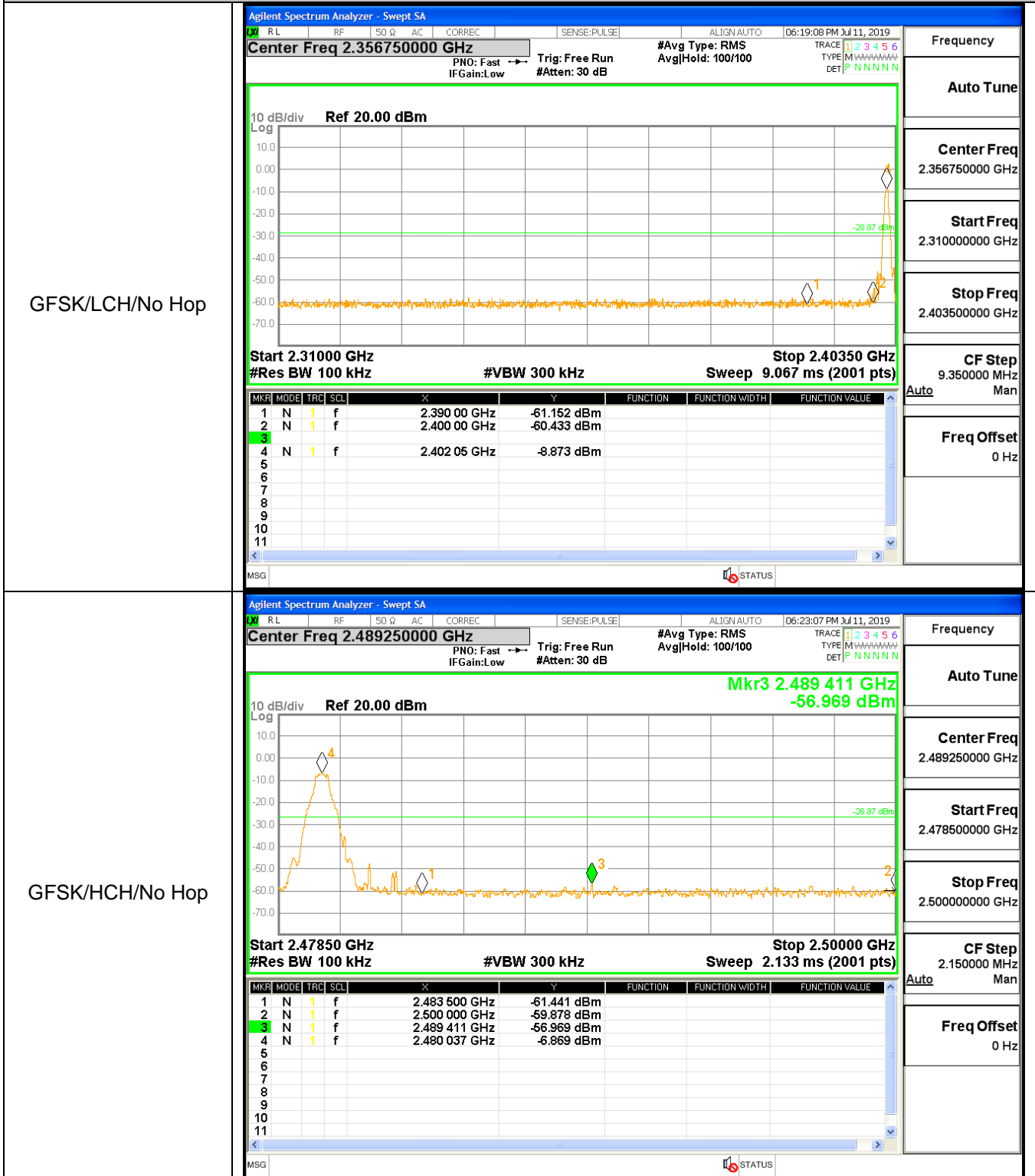


A.6 Band-edge for RF Conducted Emissions

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
1DH5	2402	2400	-8.873	-60.43	-28.873	Pass
1DH5	2480	2489.411	-6.869	-56.969	-26.869	Pass
2DH5	2402	2400	-10.401	-53.43	-30.401	Pass
2DH5	2480	2483.886	-8.514	-55.76	-28.514	Pass
3DH5	2402	2400	-10.044	-53.8	-30.044	Pass
3DH5	2480	2483.5	-7.881	-60.67	-27.881	Pass
1DH5-Hopping	2402	2400	-7.935	-59.28	-27.935	Pass
1DH5-Hopping	2480	2483.5	-6.997	-59.9	-26.997	Pass
2DH5-Hopping	2402	2400	-9.132	-55.06	-29.132	Pass
2DH5-Hopping	2480	2500	-8.172	-59.14	-28.172	Pass
3DH5-Hopping	2402	2399.7	-9.616	-51.733	-29.616	Pass
3DH5-Hopping	2480	2500	-8.051	-58.91	-28.051	Pass

Test Graph

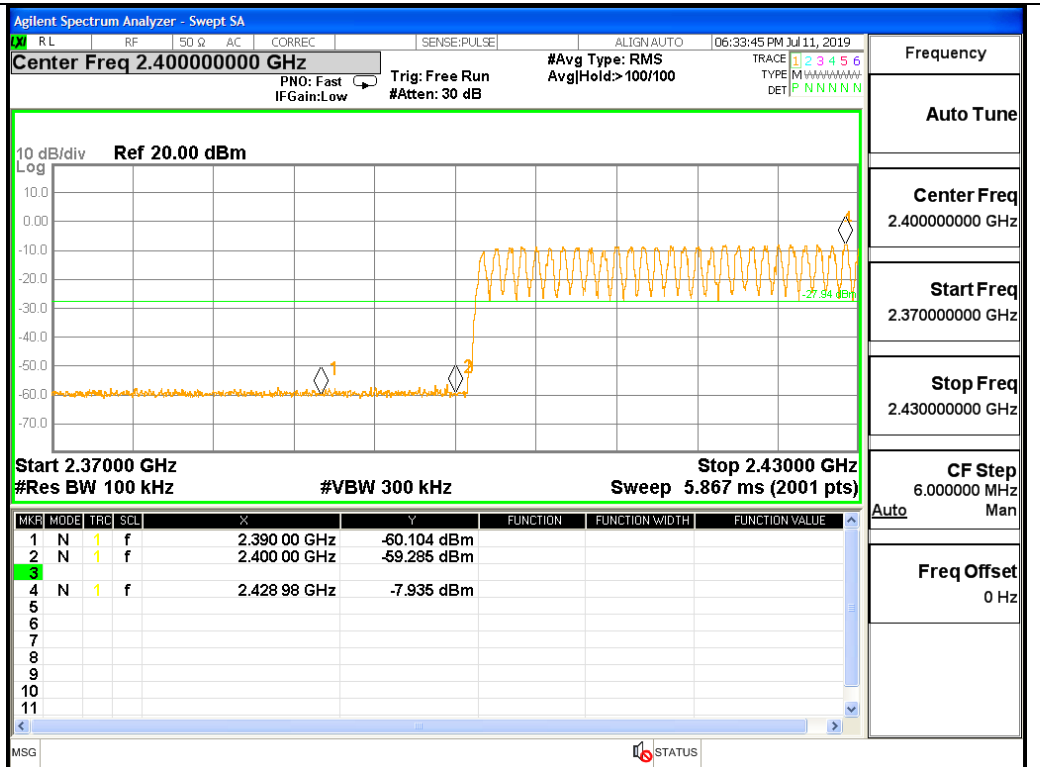
Graphs



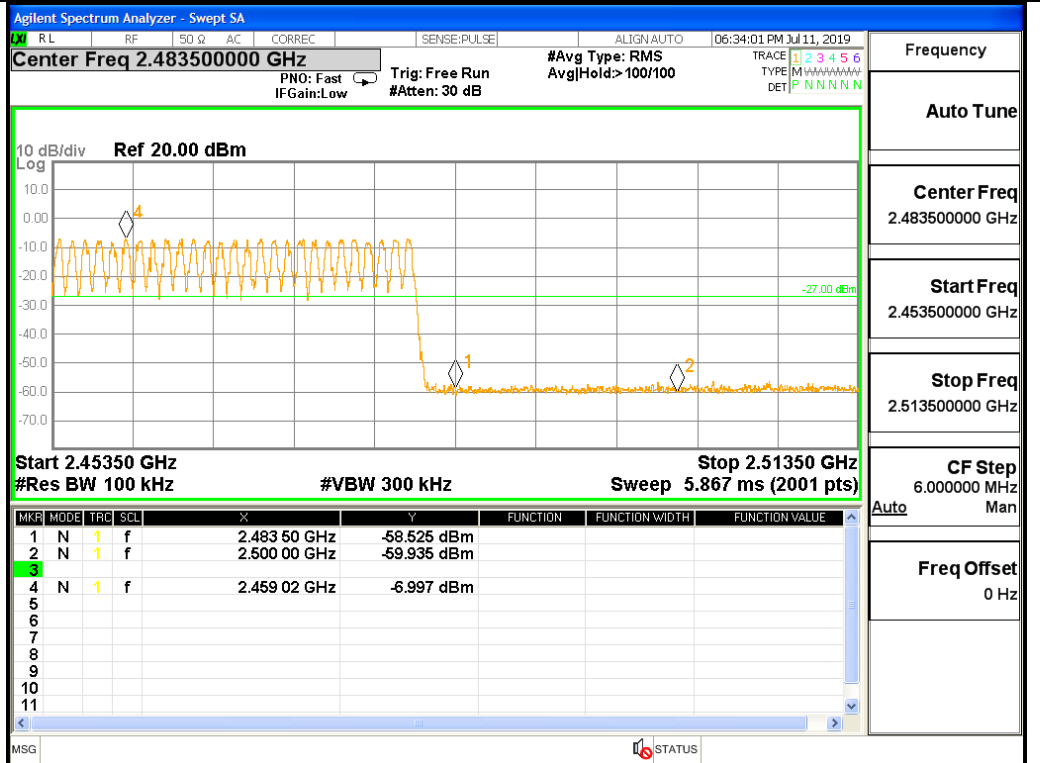


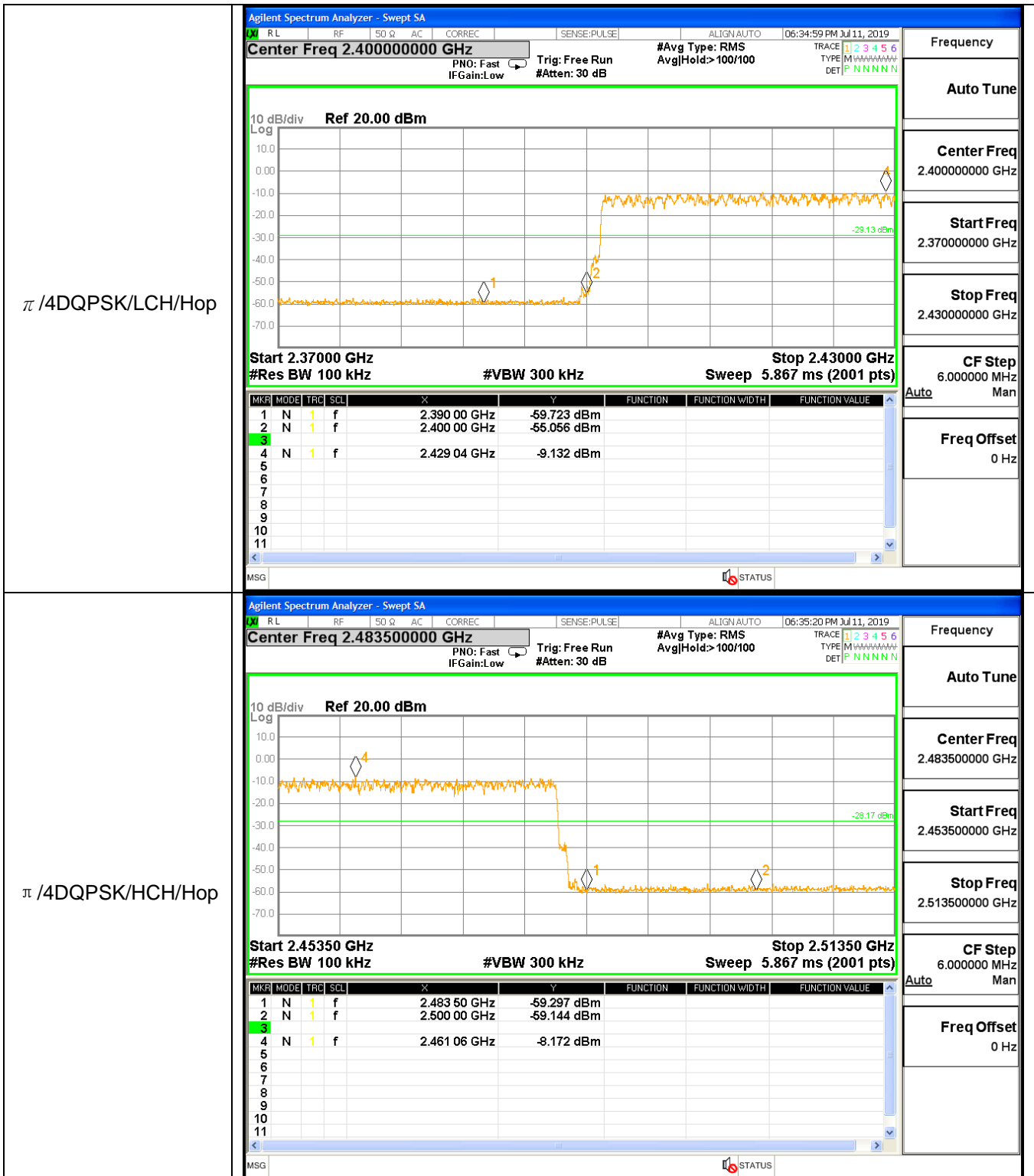


GFSK/LCH/Hop



GFSK/HCH/Hop

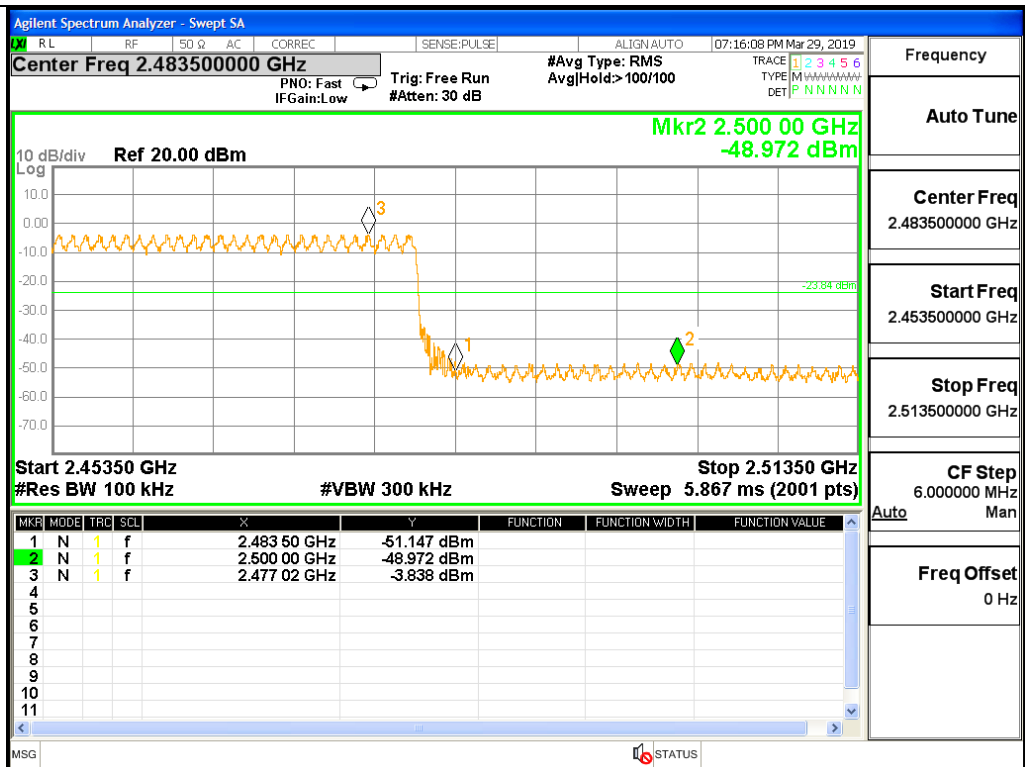




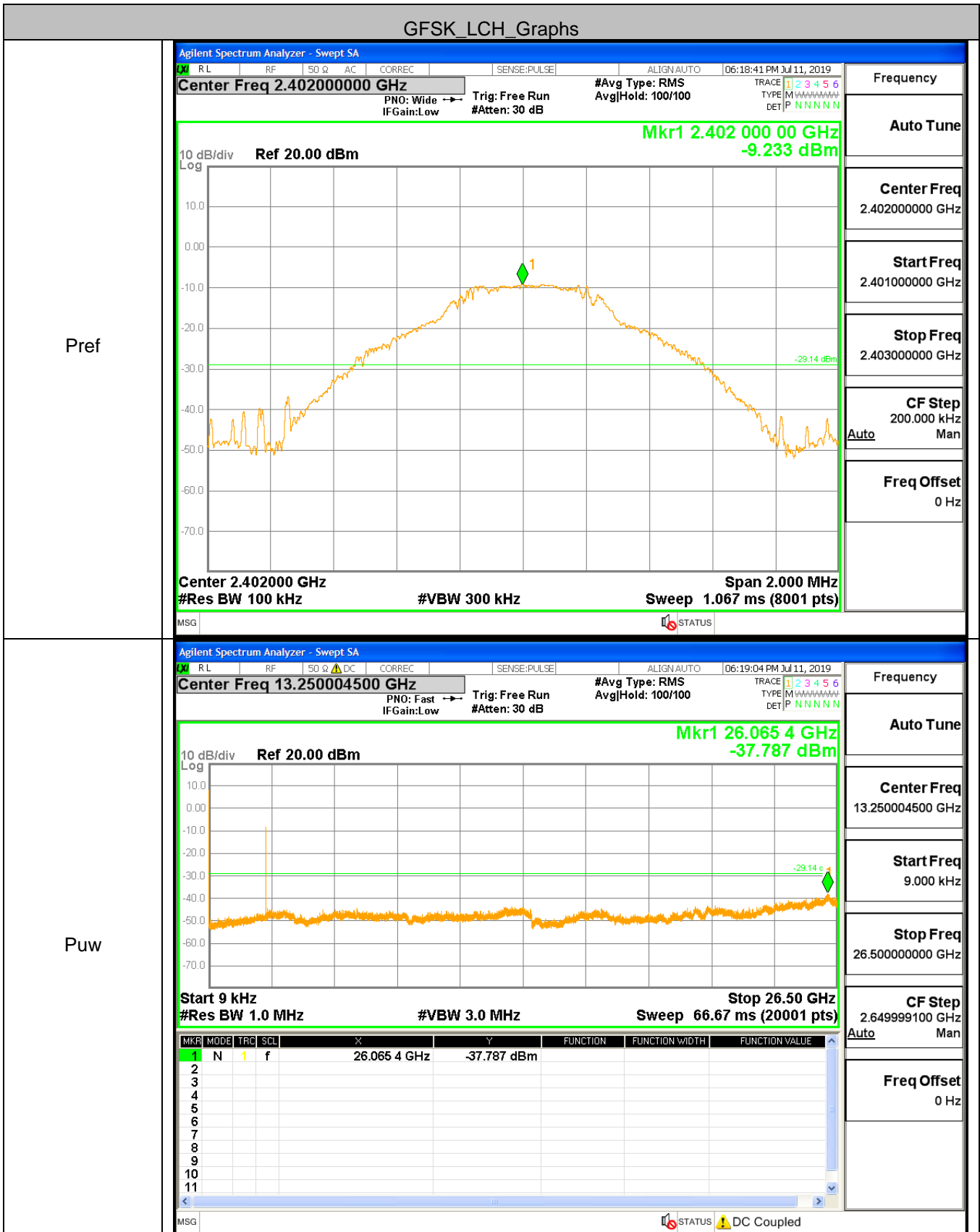
8DPSK/LCH/Hop



8DPSK/HCH/Hop

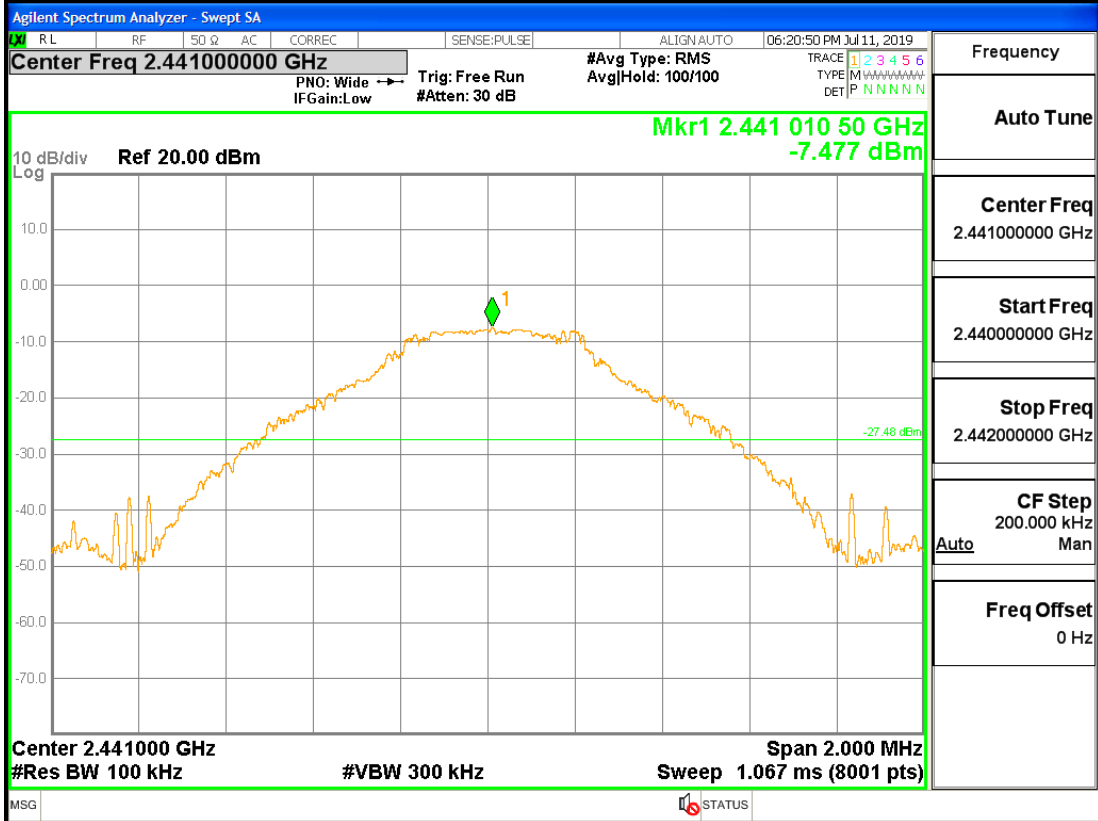


A.7 RF Conducted Spurious Emissions Test Graph

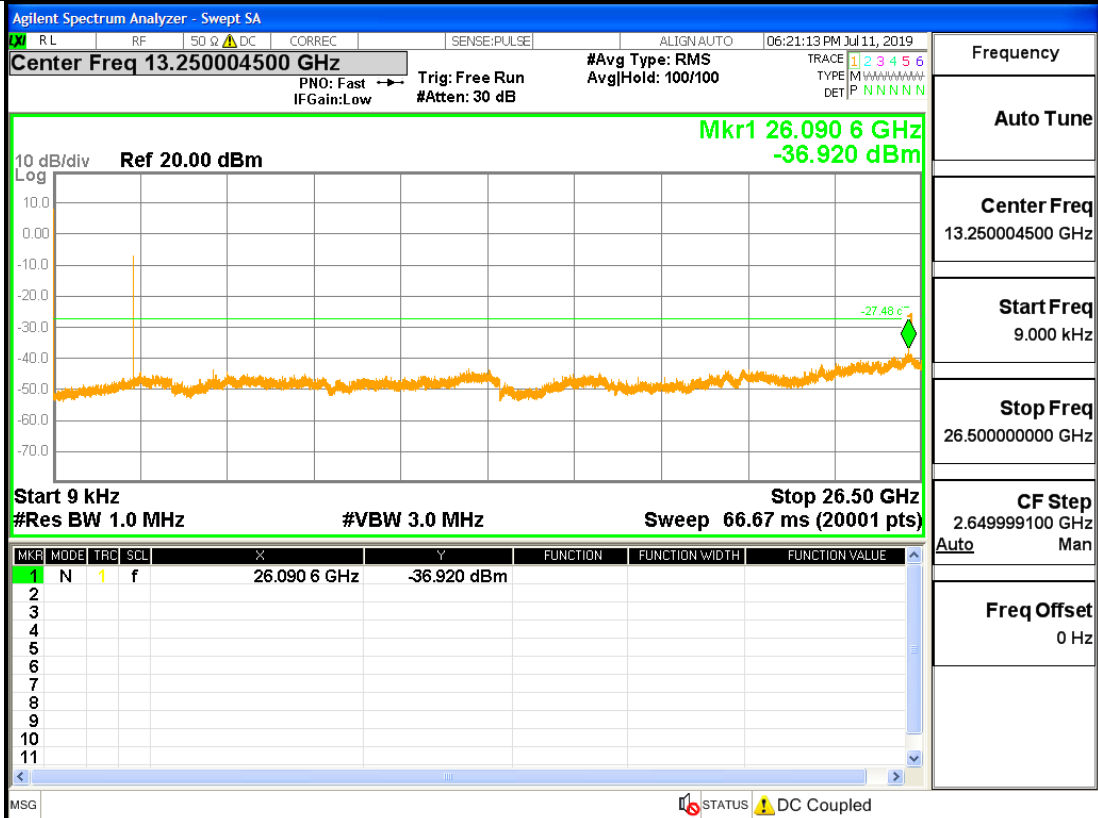


GFSK_MCH_Graphs

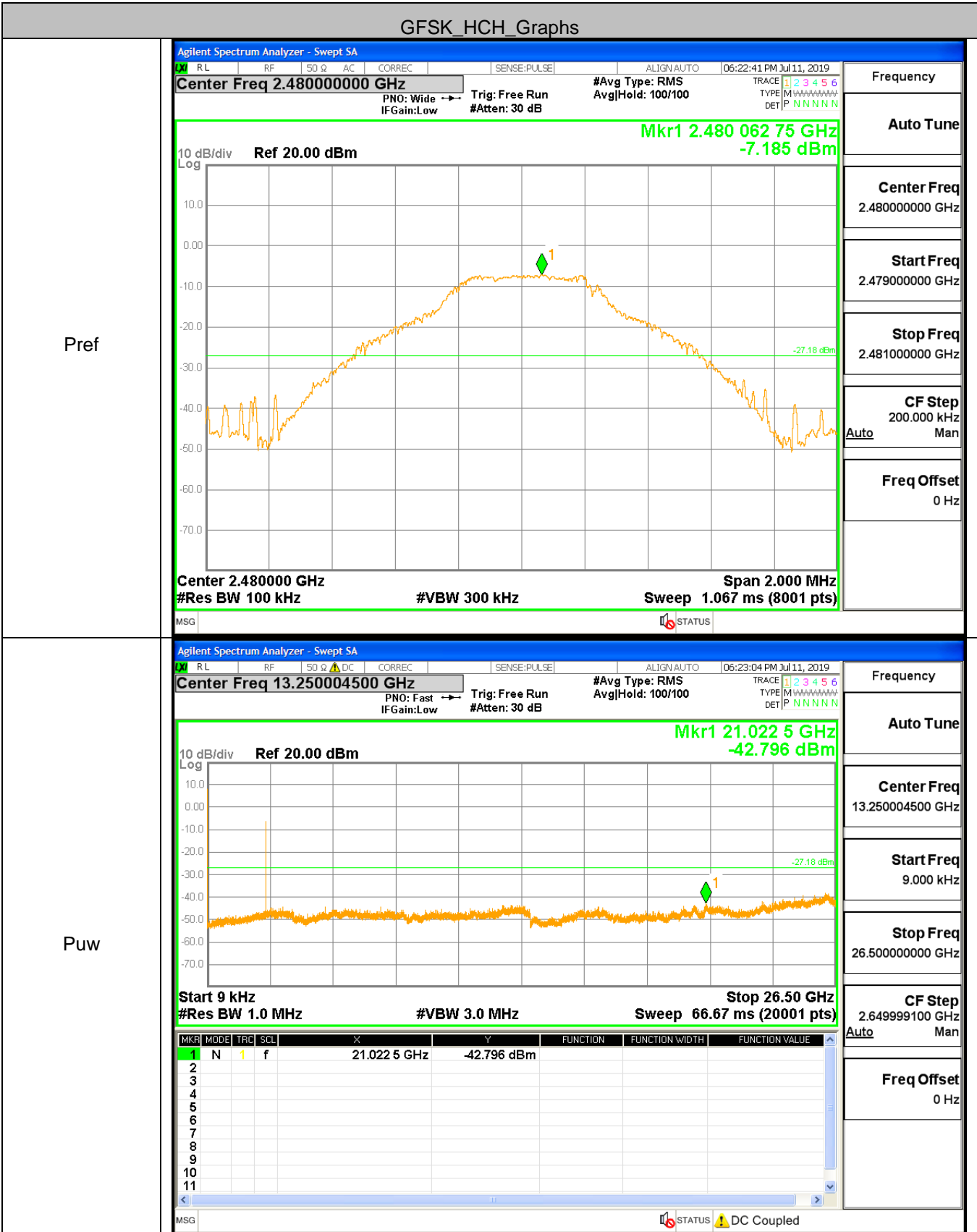
Pref



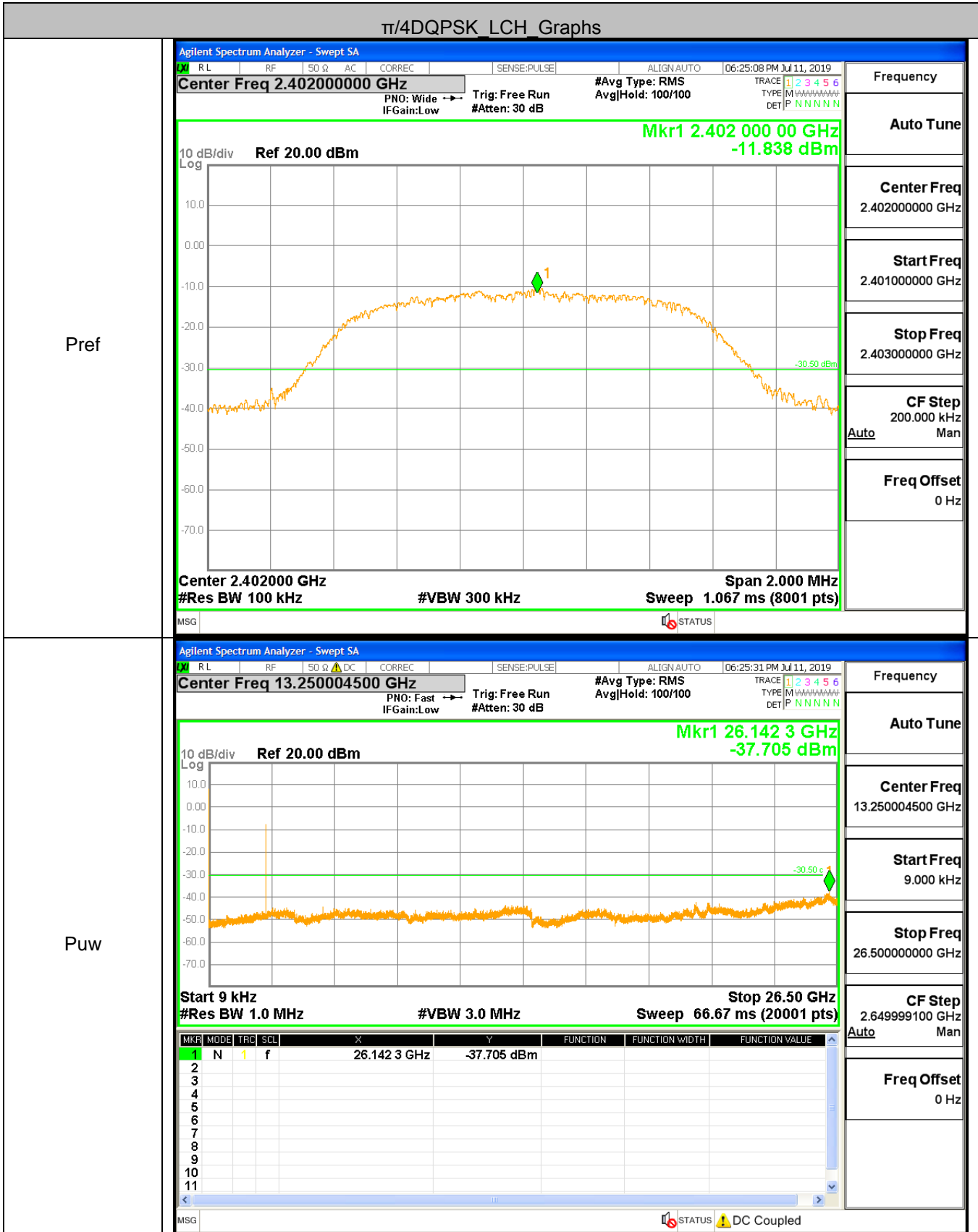
Puw



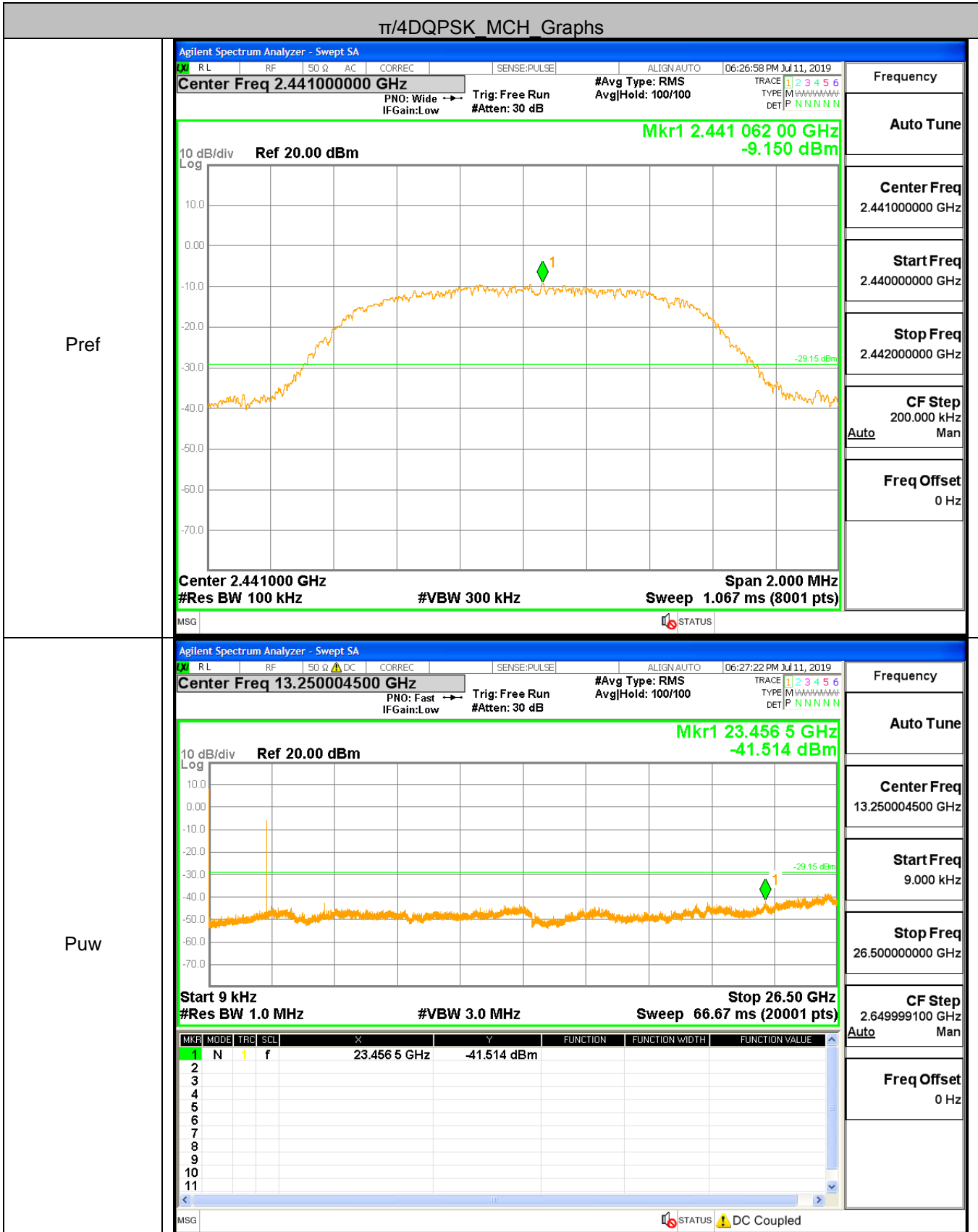
GFSK_HCH_Graphs



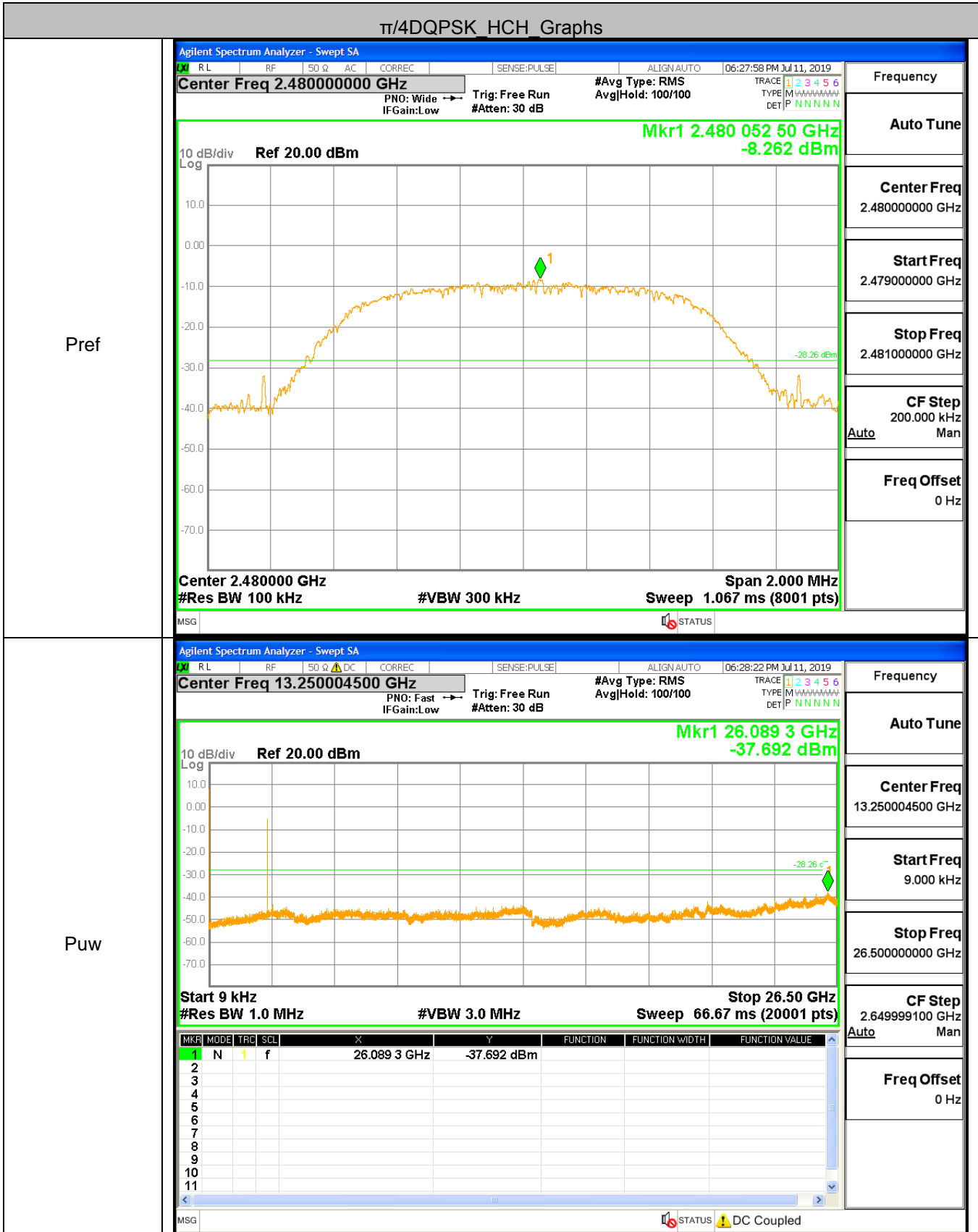
$\pi/4$ DQPSK LCH Graphs



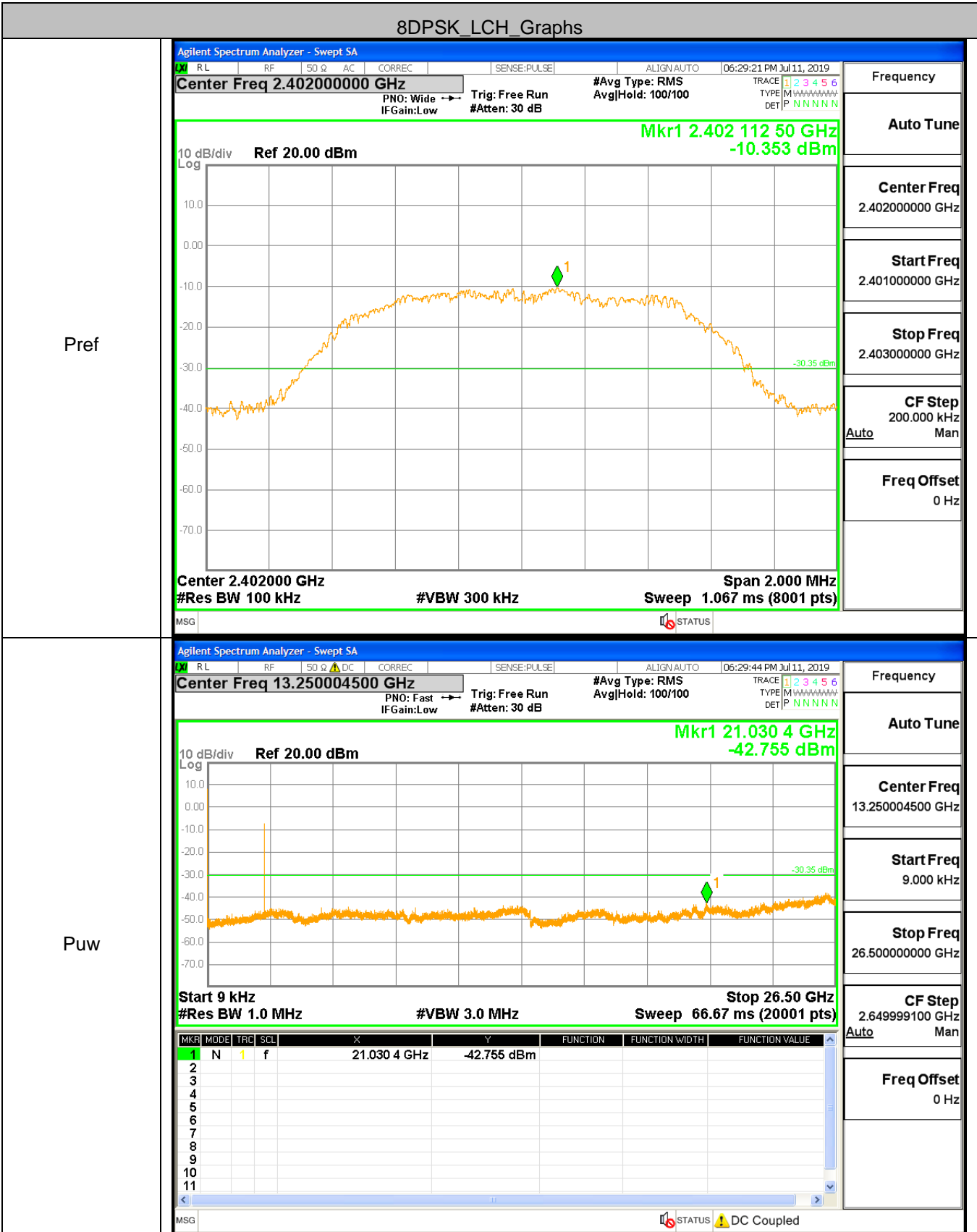
$\pi/4$ DQPSK MCH Graphs



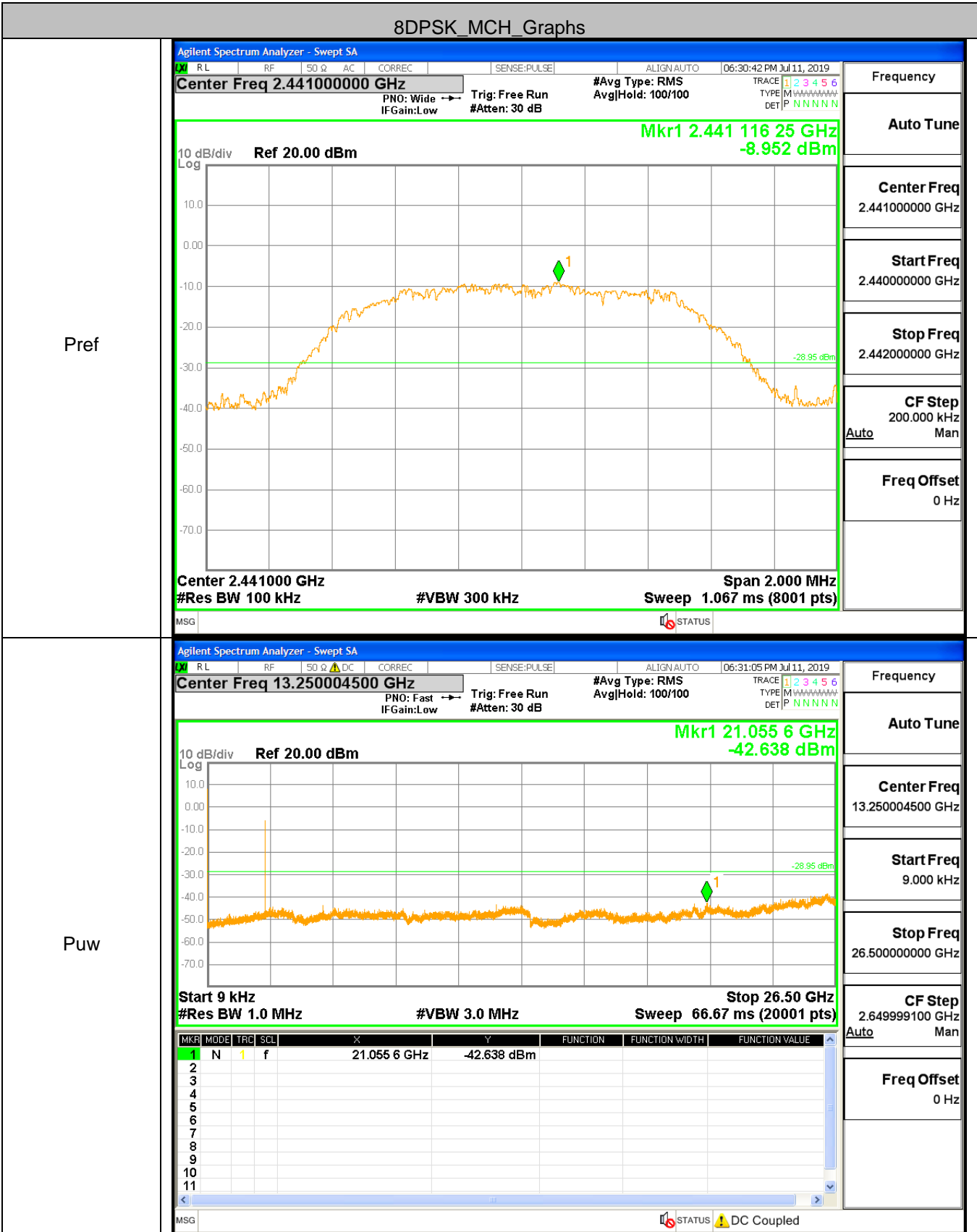
$\pi/4$ DQPSK HCH Graphs



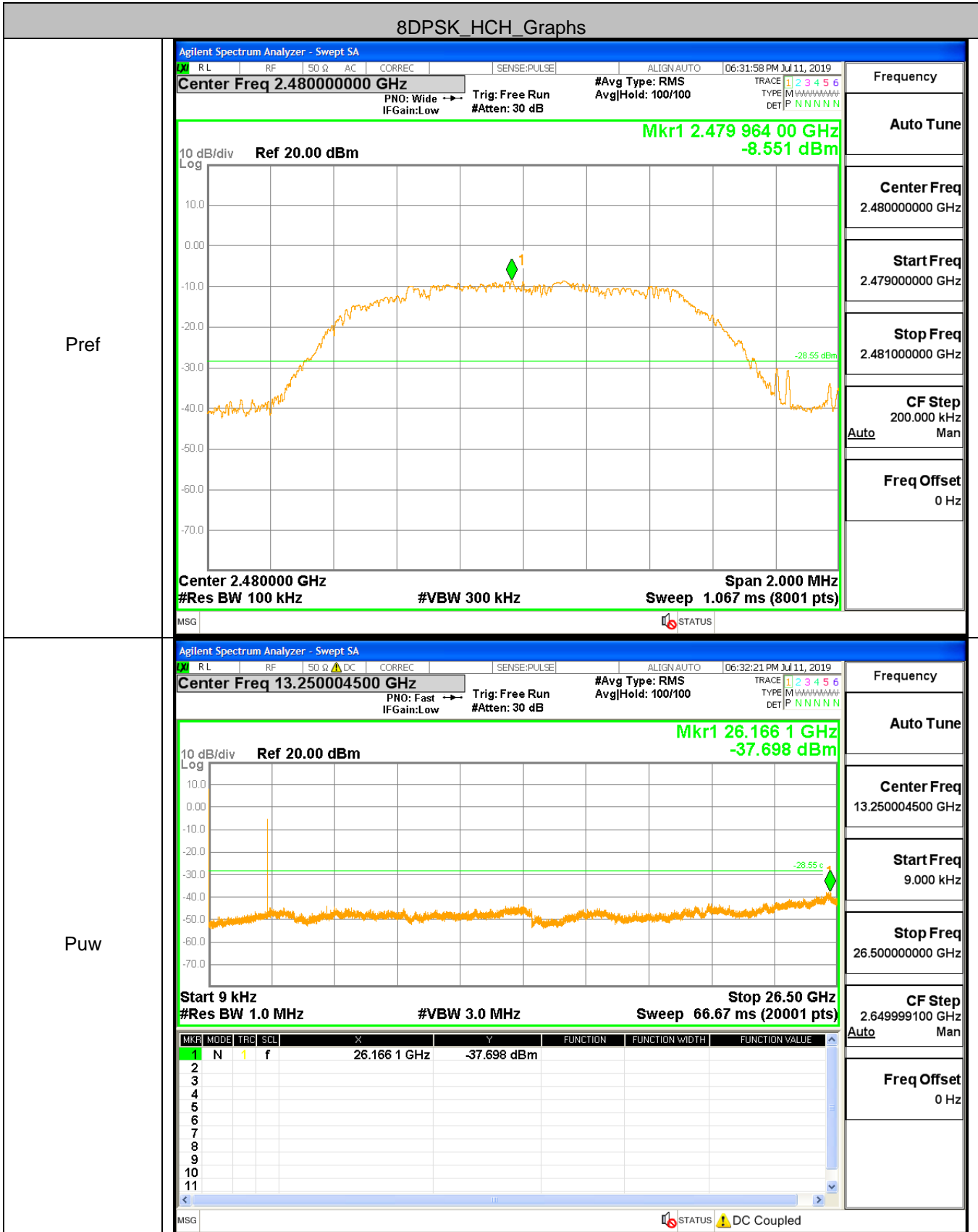
8DPSK_LCH_Graphs



8DPSK_MCH_Graphs



8DPSK_HCH_Graphs



Pref

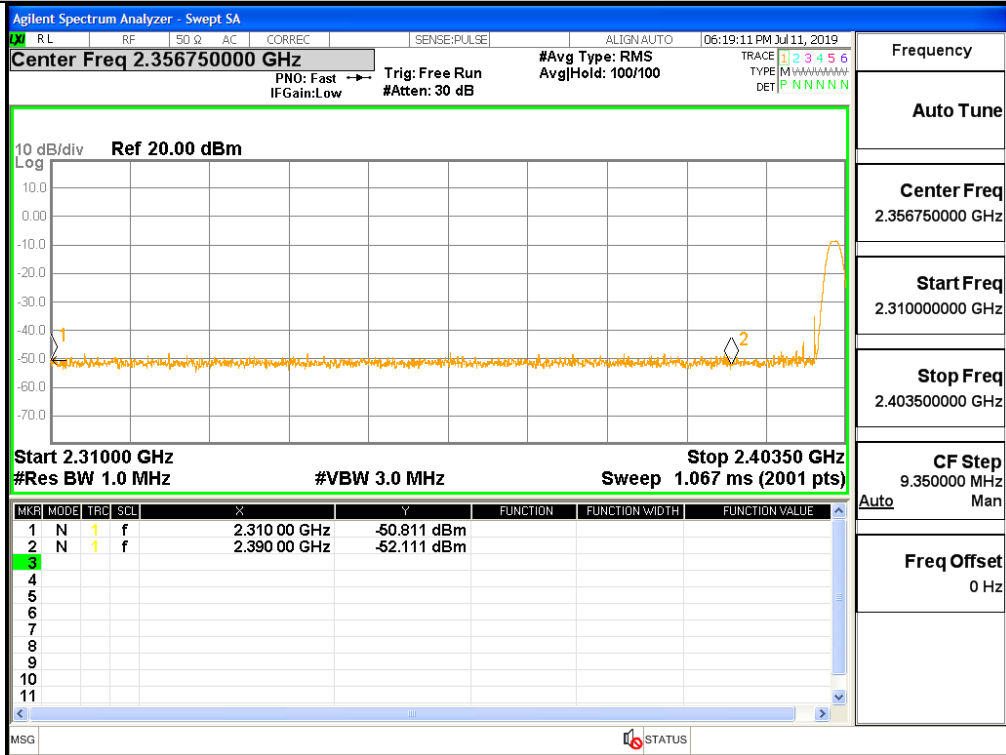
Puw

A.8 Restrict-band band-edge measurements

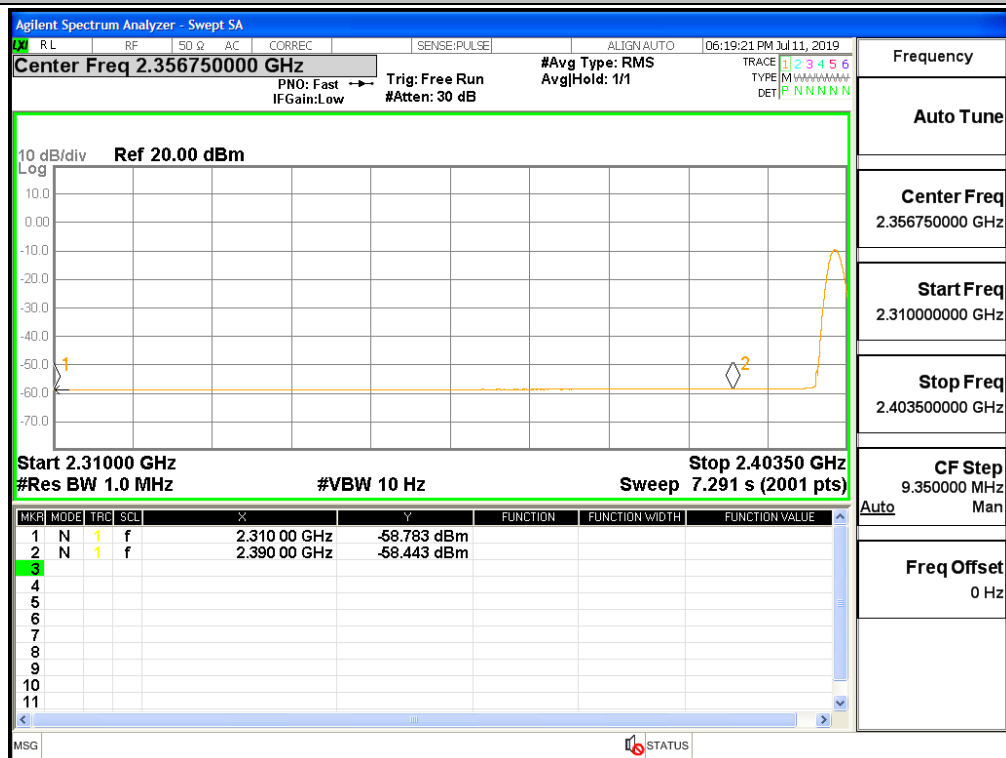
Type	Carrier Frequency (MHz)	Frequency(M Hz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2310.00	2.00	0.00	-50.81	46.39	74	Pass
1DH5	2480	2484.13	2.00	0.00	-40.11	57.09	74	Pass
2DH5	2402	2390.00	2.00	0.00	-51.07	46.13	74	Pass
2DH5	2480	2483.91	2.00	0.00	-38.39	58.81	74	Pass
3DH5	2402	2390.00	2.00	0.00	-50.89	46.31	74	Pass
3DH5	2480	2483.85	2.00	0.00	-38.57	58.64	74	Pass

Type	Carrier Frequency (MHz)	Frequency(M Hz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2390.00	2.00	0.00	-58.44	38.76	54	Pass
1DH5	2480	2483.50	2.00	0.00	-57.42	39.78	54	Pass
2DH5	2402	2390.00	2.00	0.00	-58.44	38.76	54	Pass
2DH5	2480	2483.50	2.00	0.00	-56.74	40.46	54	Pass
3DH5	2402	2390.00	2.00	0.00	-58.48	38.72	54	Pass
3DH5	2480	2483.50	2.00	0.00	-56.57	40.63	54	Pass

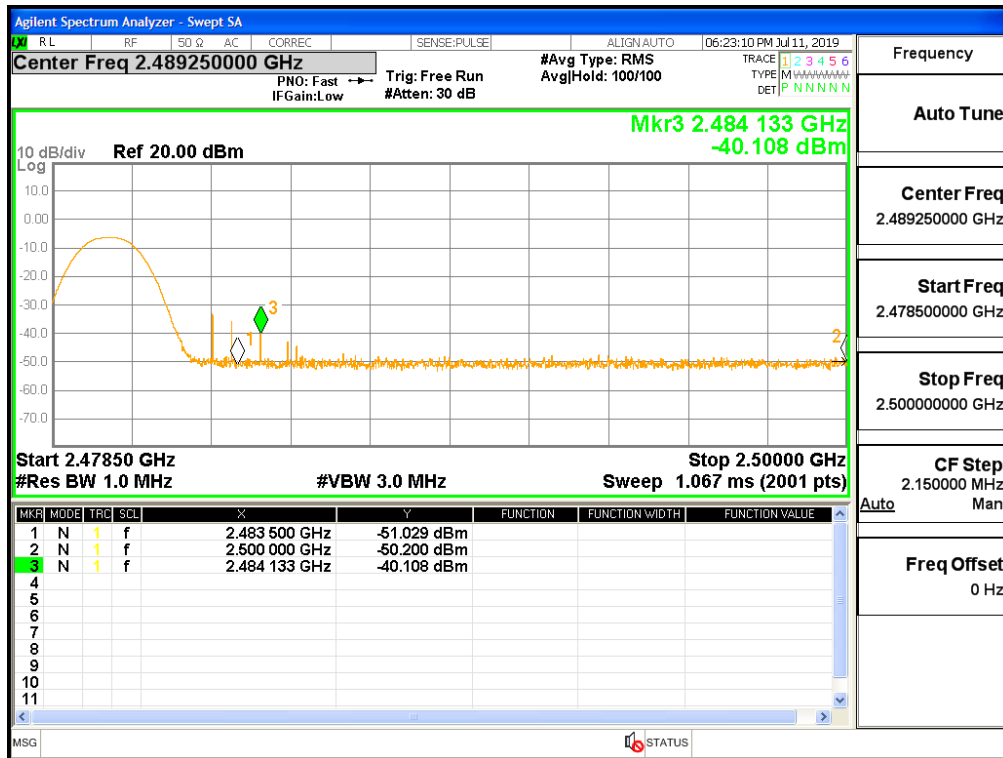
Restrict-band band-edge measurements_2402_PEAK_DH5



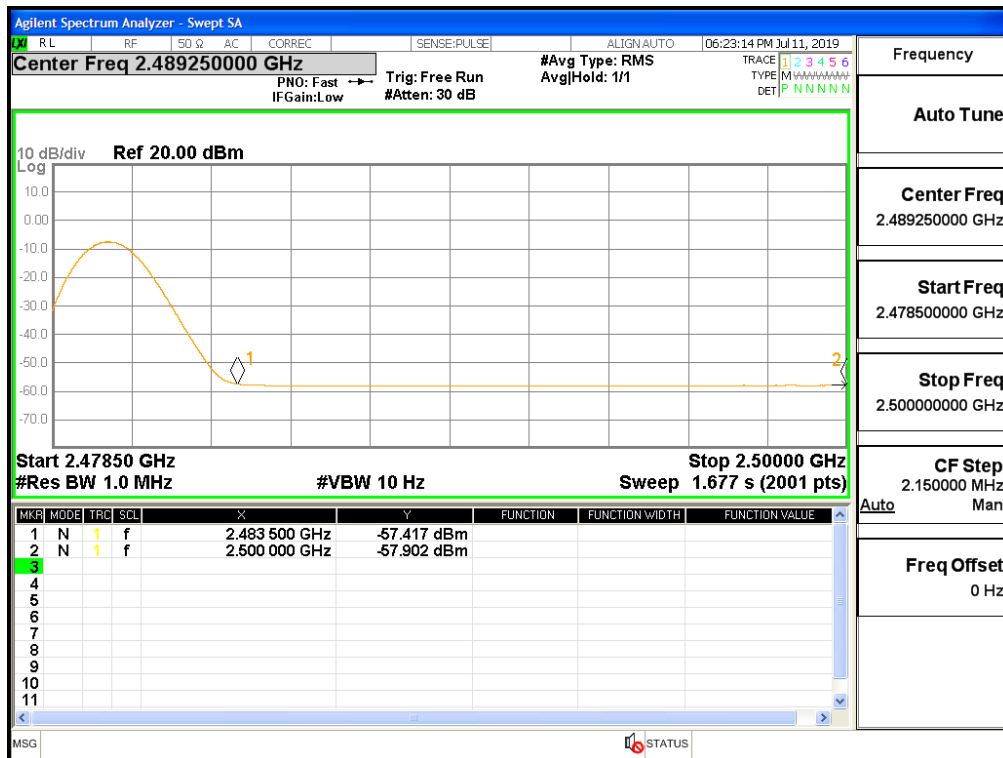
Restrict-band band-edge measurements_2402_AV_DH5



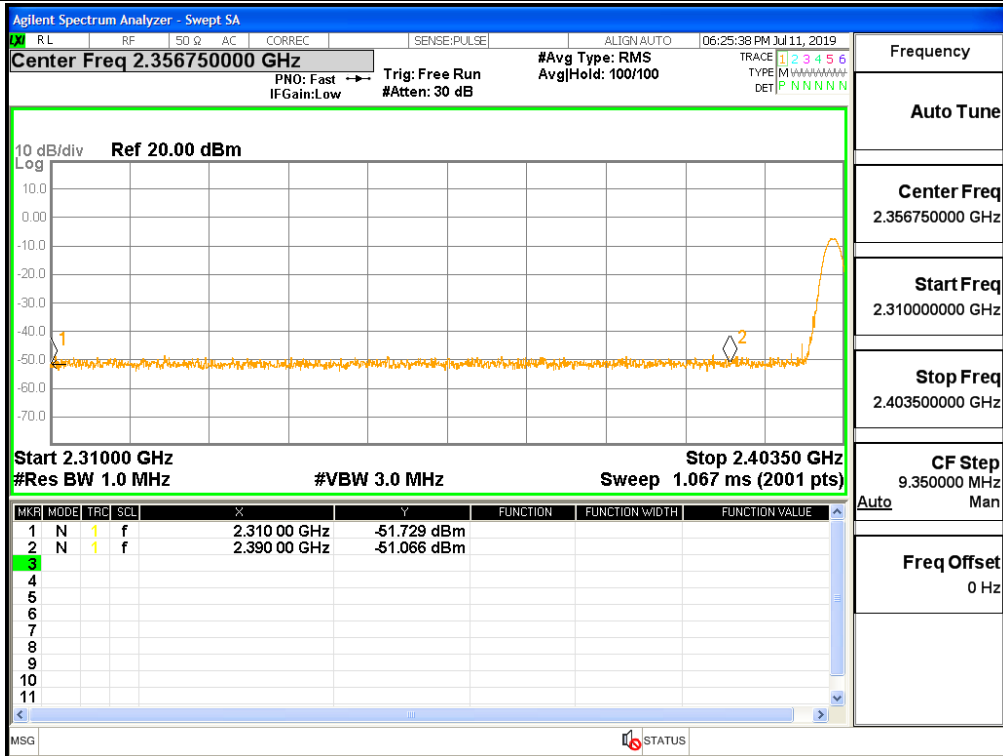
Restrict-band band-edge measurements_2480_PEAK_DH5



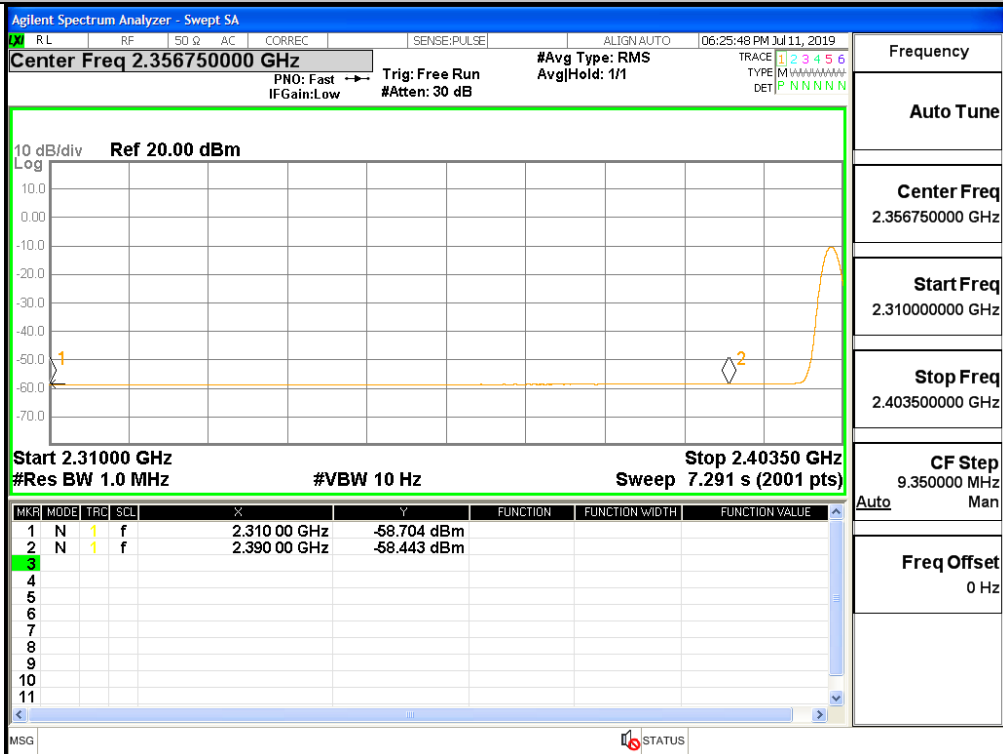
Restrict-band band-edge measurements_2480_AV_DH5



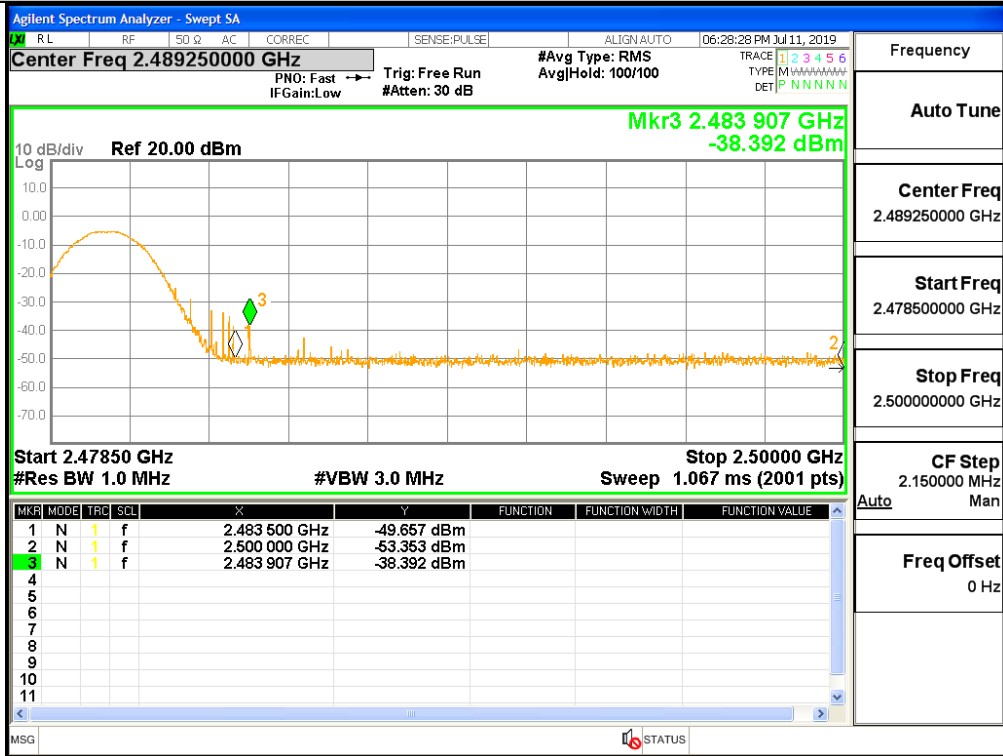
Restrict-band band-edge measurements_2402_PEAK_2DH5



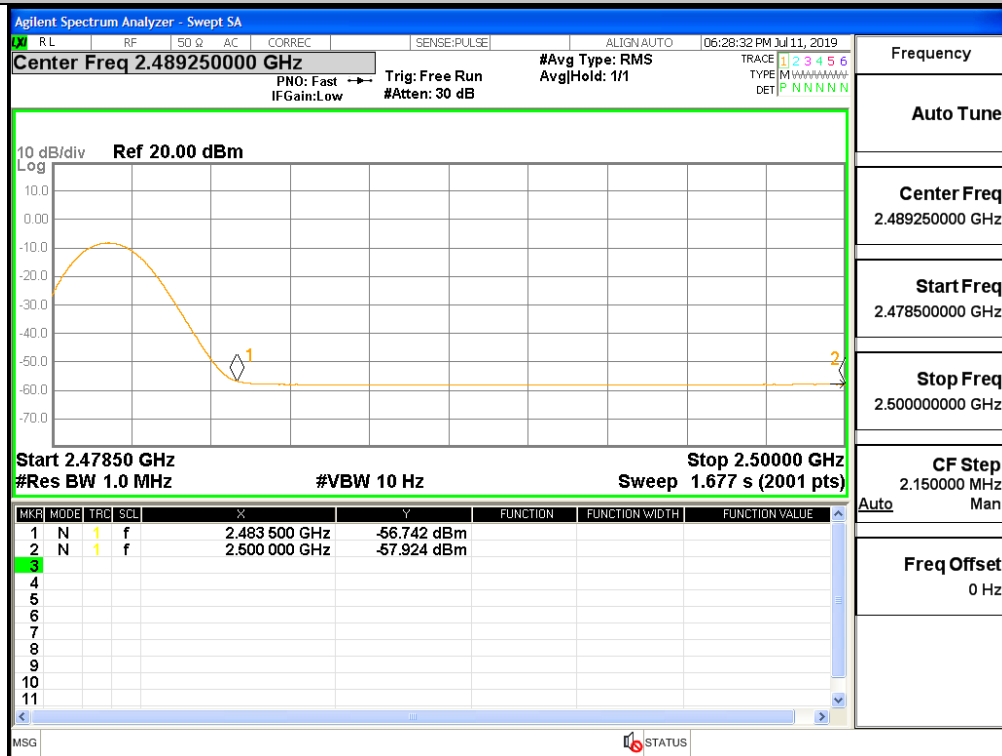
Restrict-band band-edge measurements_2402_AV_2DH5



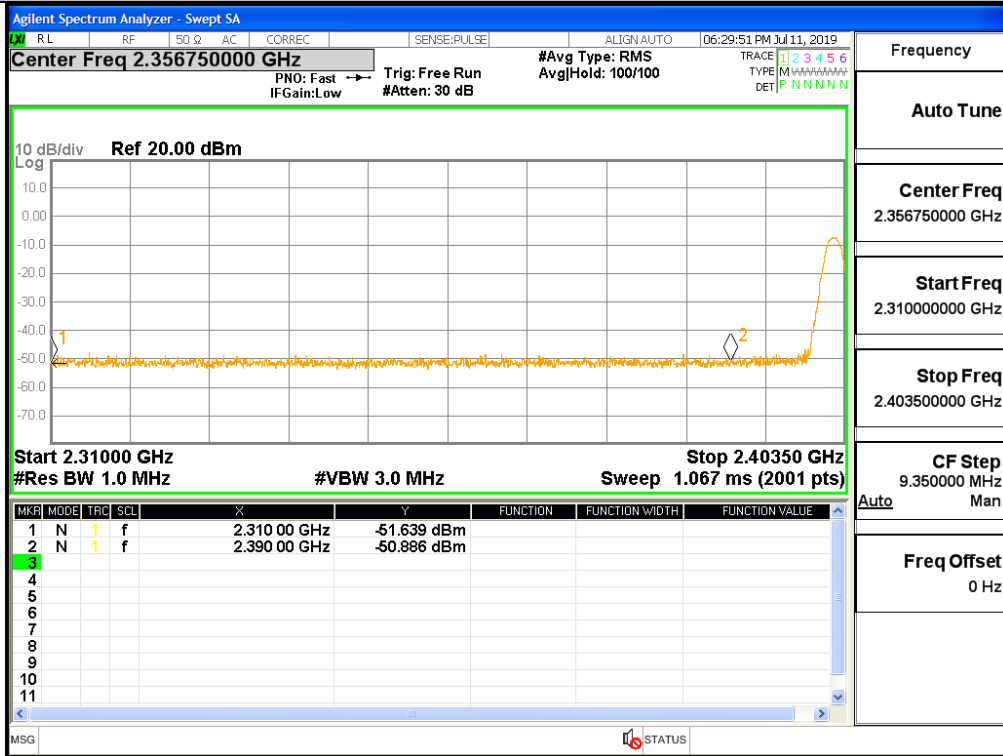
Restrict-band band-edge measurements_2480_PEAK_2DH5



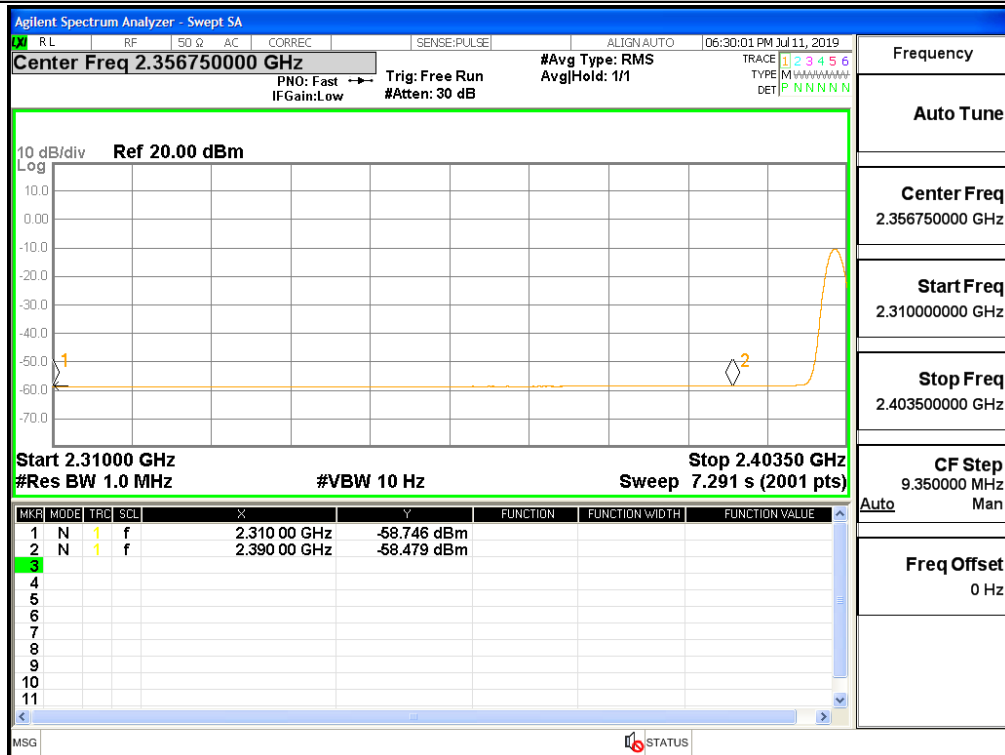
Restrict-band band-edge measurements_2480_AV_2DH5



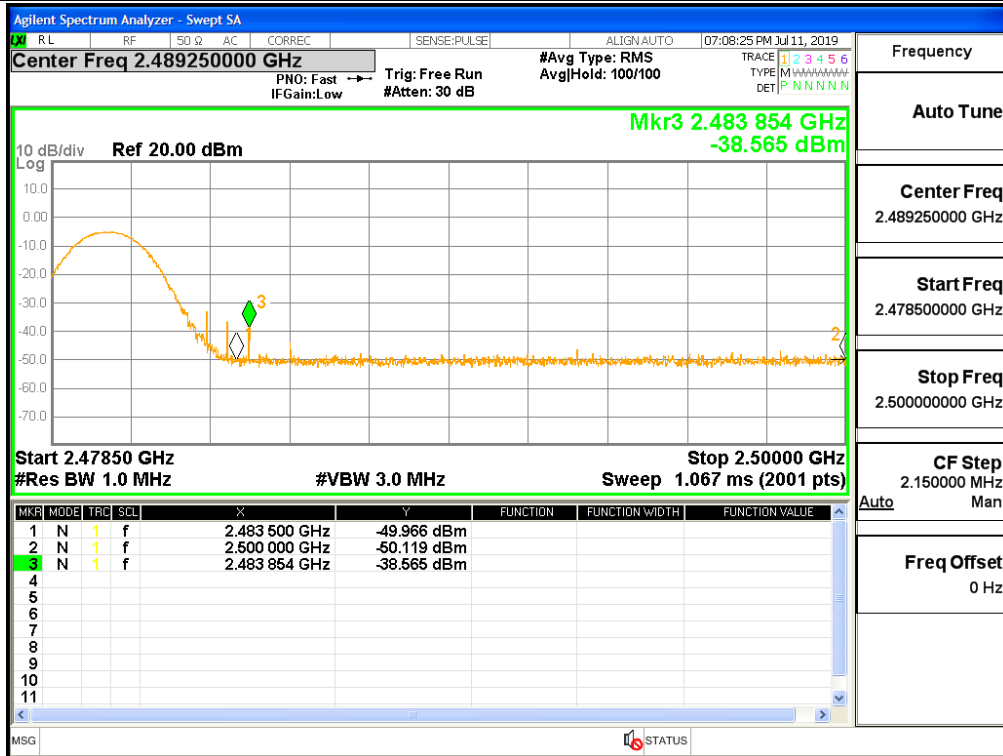
Restrict-band band-edge measurements_2402_PEAK_3DH5



Restrict-band band-edge measurements_2402_AV_3DH5



Restrict-band band-edge measurements_2480_PEAK_3DH5



Restrict-band band-edge measurements_2480_AV_3DH5

