

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

Product Name: Bluetooth headset

Trade Mark: sentry

Test Model: H2

FCC ID: 2ACP4-H2

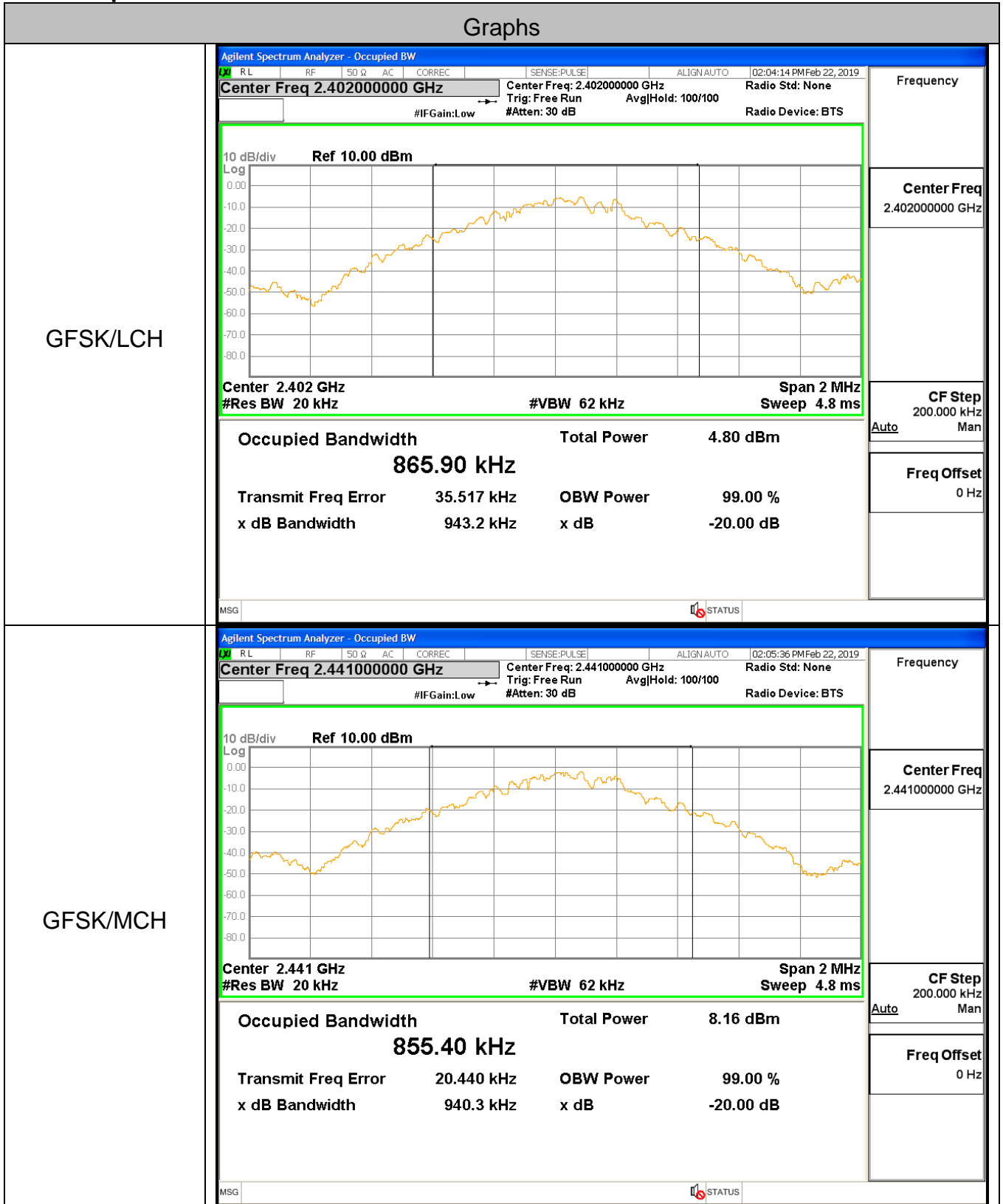
**Environmental Conditions**

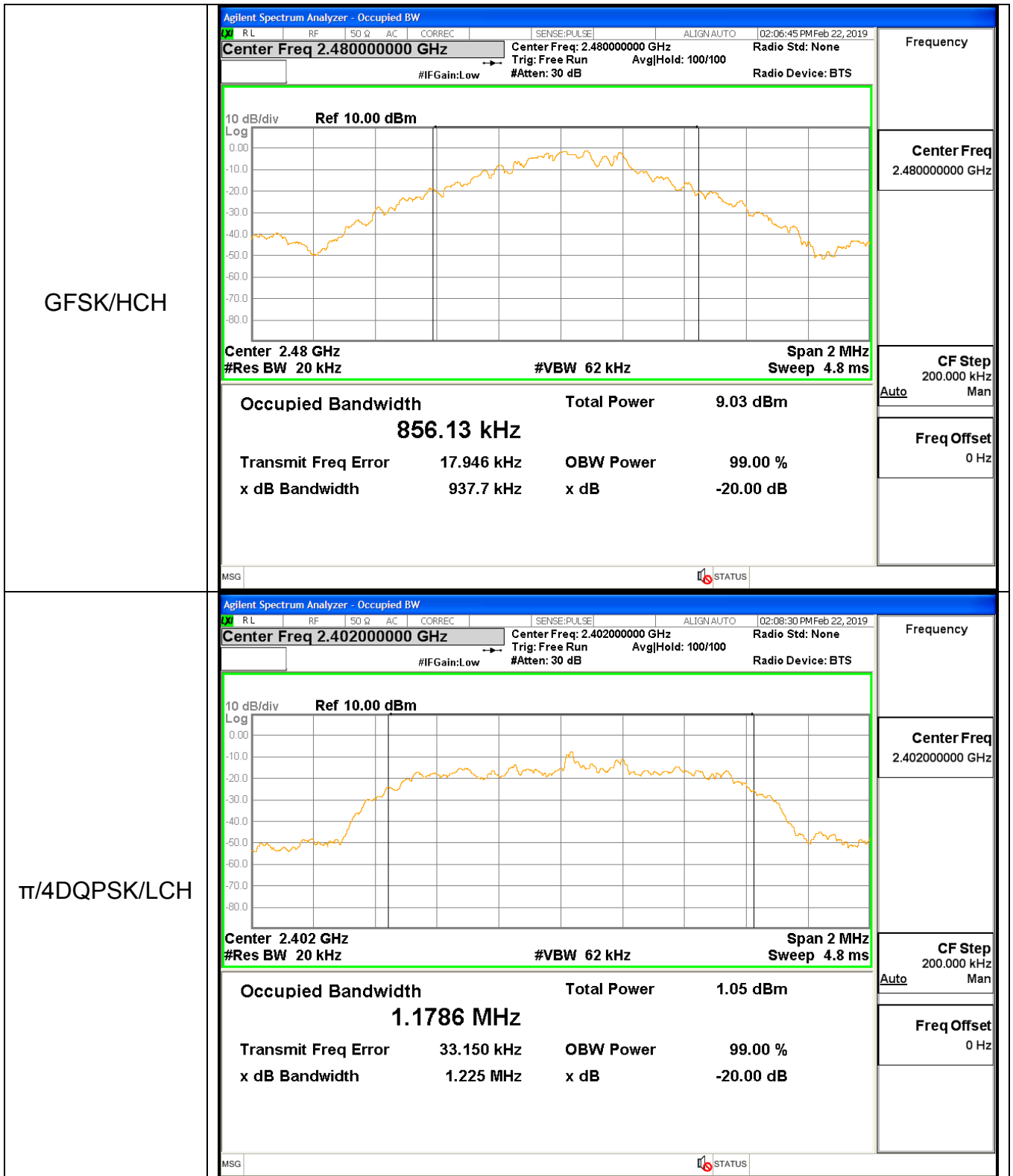
Temperature:	23.8 °C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

**A.1 20 dB Bandwidth**

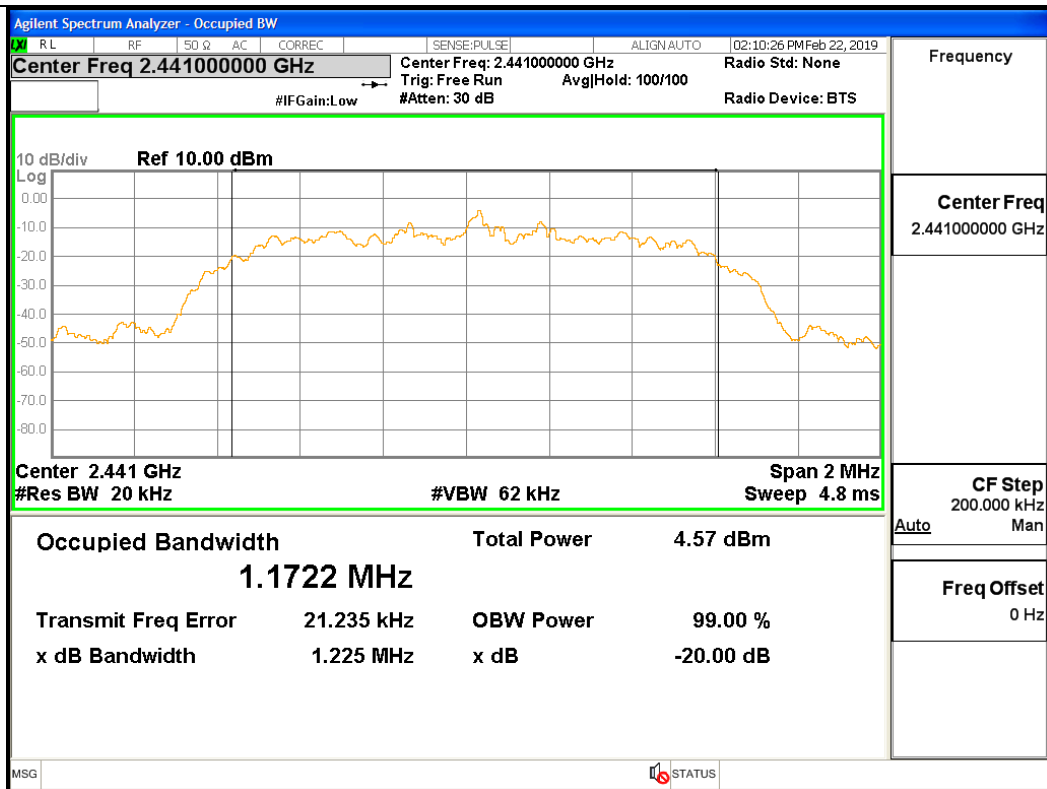
Mode	Channel.	20dB Bandwidth [MHz]	Limit(MHz)	Verdict
GFSK	LCH	0.943	Not Specified	PASS
GFSK	MCH	0.940	Not Specified	PASS
GFSK	HCH	0.938	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.225	Not Specified	PASS
$\pi/4$ DQPSK	MCH	1.225	Not Specified	PASS
$\pi/4$ DQPSK	HCH	1.226	Not Specified	PASS
8DPSK	LCH	1.253	Not Specified	PASS
8DPSK	MCH	1.252	Not Specified	PASS
8DPSK	HCH	1.260	Not Specified	PASS

Test Graph

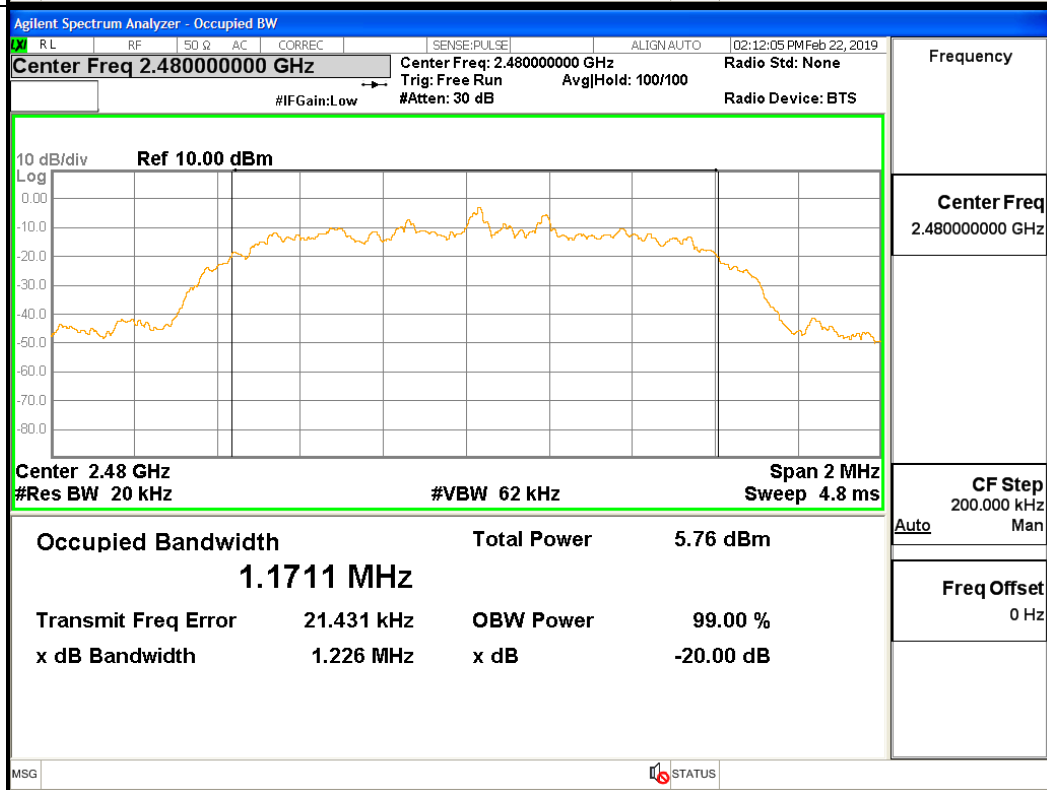


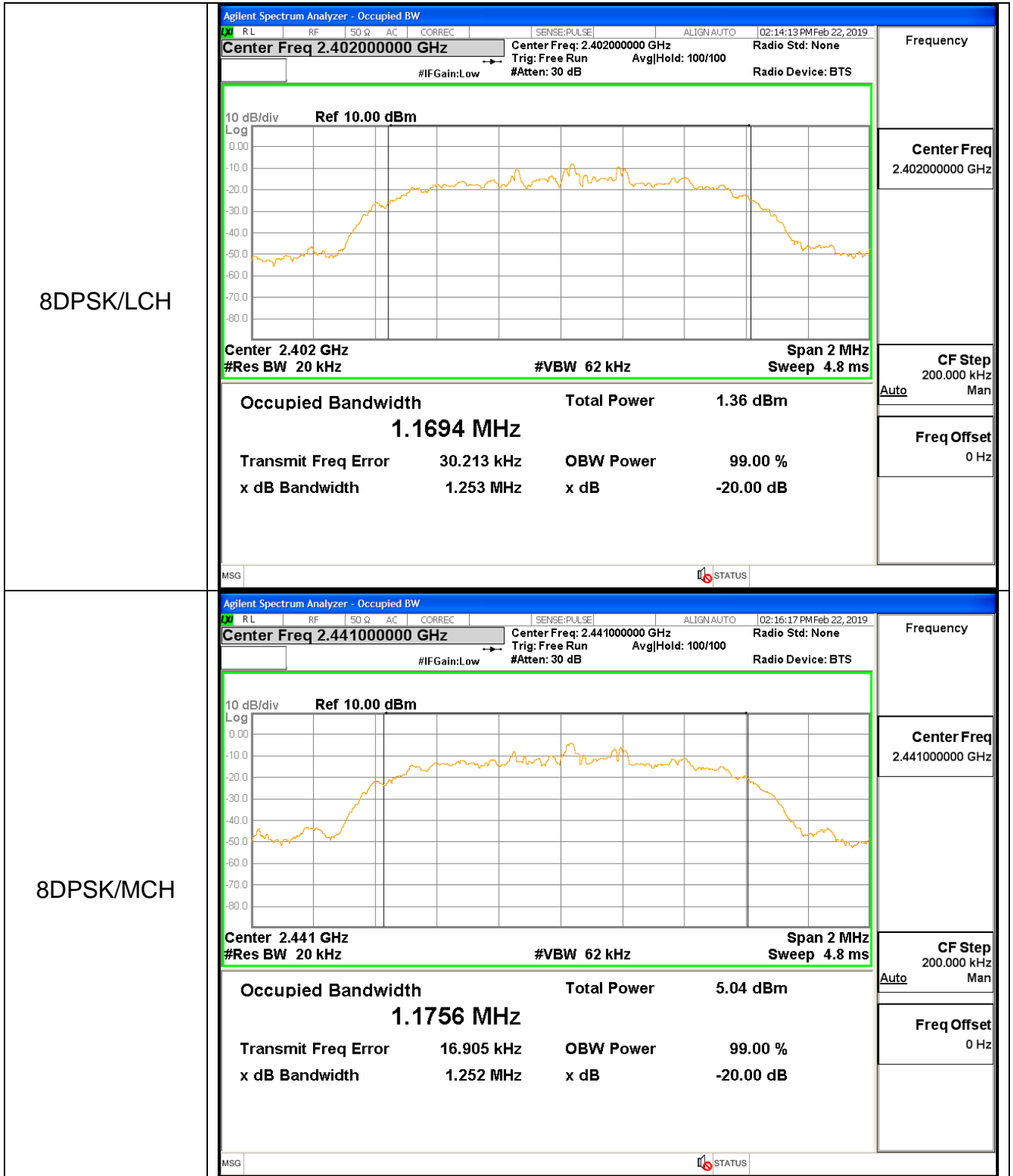


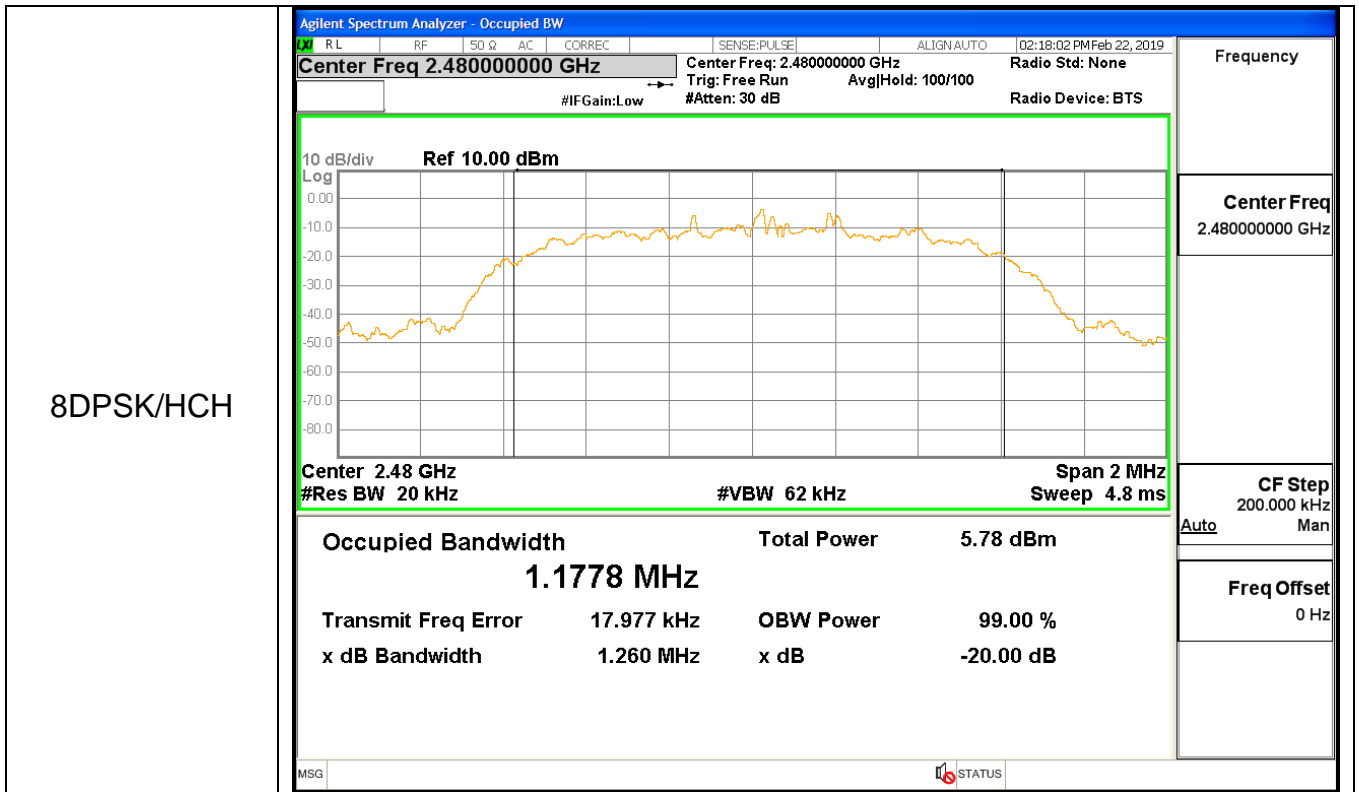
$\pi/4$ DQPSK/MCH



$\pi/4$ DQPSK/HCH



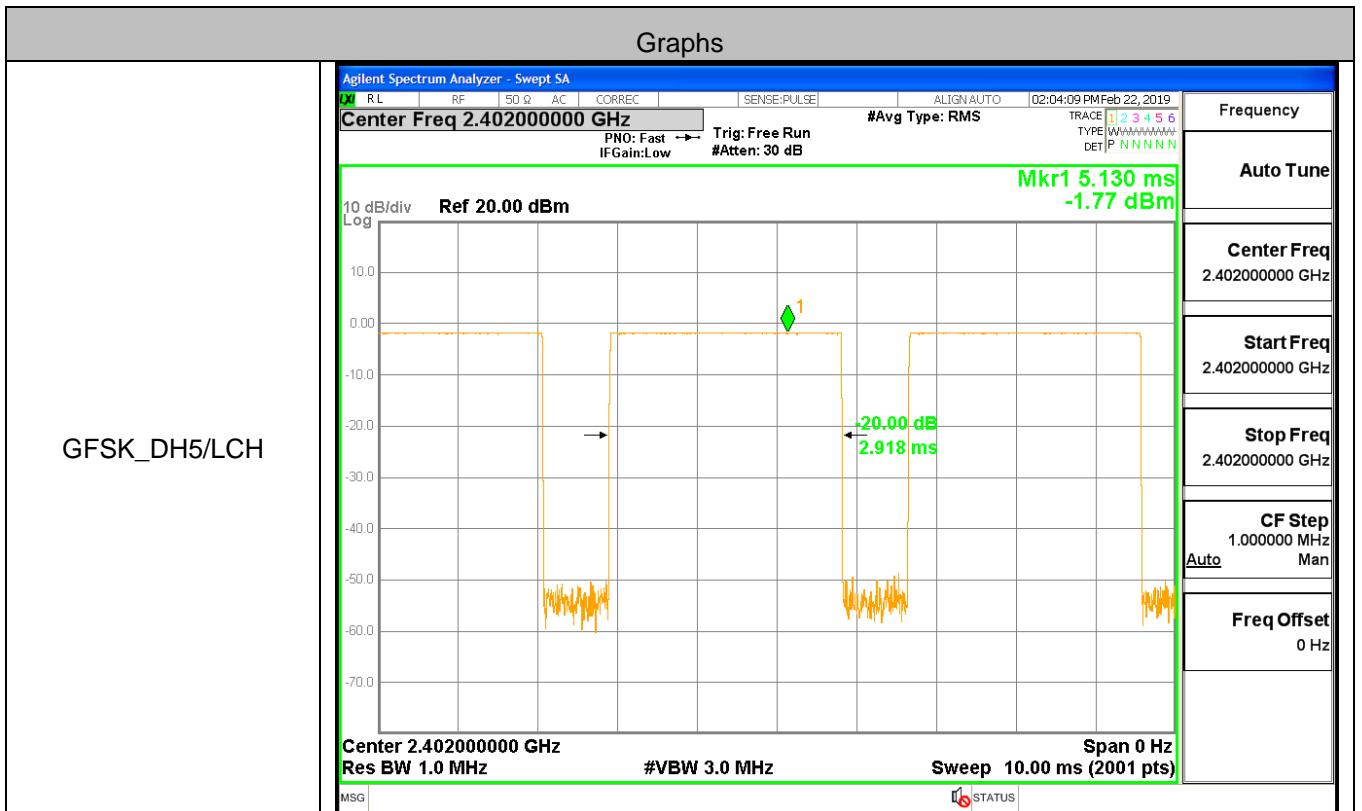


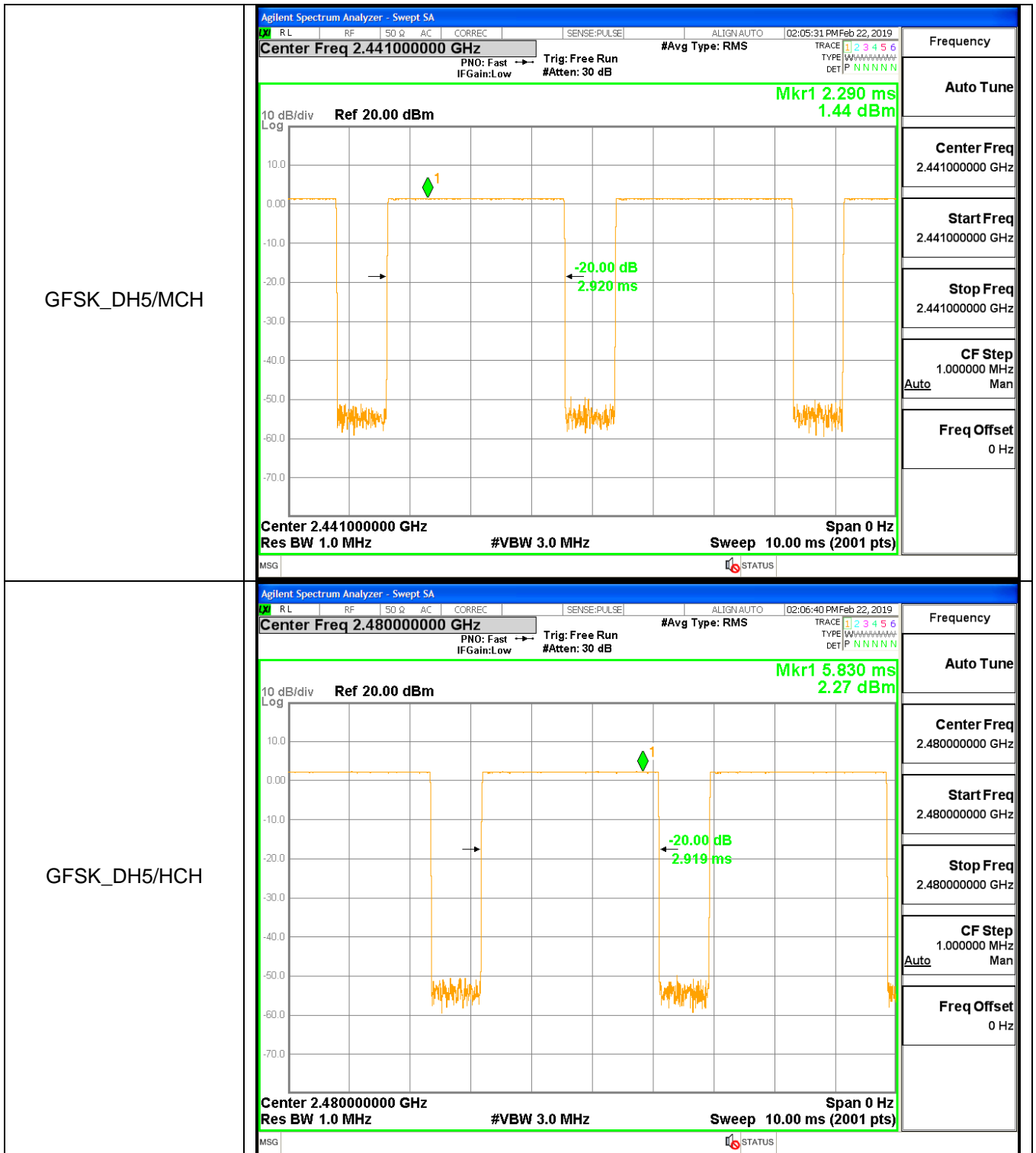


### A.2 Dwell Time

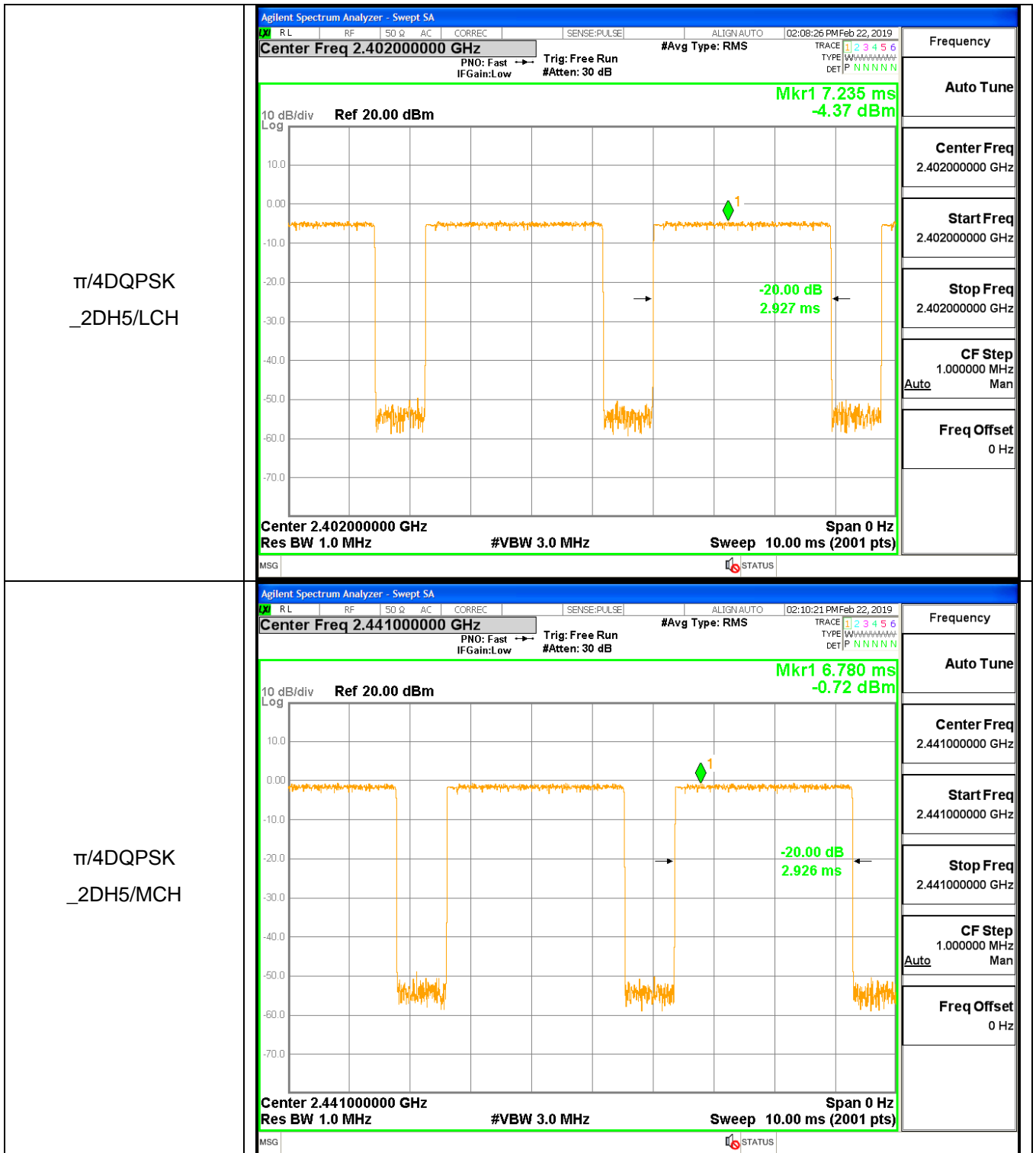
Mode	Packet	Channel	Burst Width [s/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	0.002918	106.7	0.311396	0.4	PASS
GFSK	DH5	MCH	0.00292	106.7	0.311522	0.4	PASS
GFSK	DH5	HCH	0.002919	106.7	0.31147	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	0.002927	106.7	0.31231	0.4	PASS
$\pi/4$ DQPSK	2DH5	MCH	0.002926	106.7	0.312233	0.4	PASS
$\pi/4$ DQPSK	2DH5	HCH	0.002928	106.7	0.312367	0.4	PASS
8DPSK	3DH5	LCH	0.002927	106.7	0.312285	0.4	PASS
8DPSK	3DH5	MCH	0.002928	106.7	0.312462	0.4	PASS
8DPSK	3DH5	HCH	0.002928	106.7	0.312467	0.4	PASS

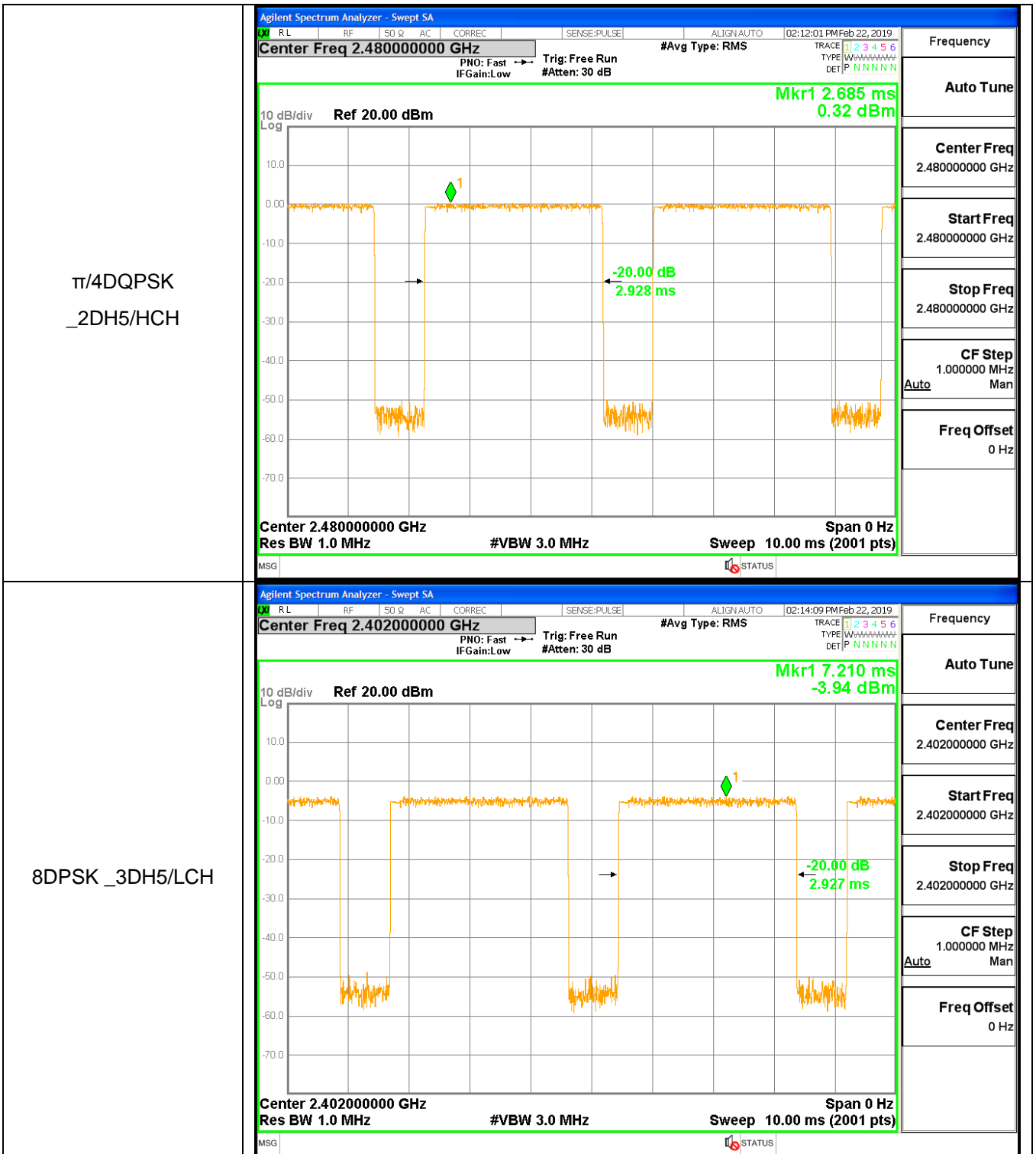
### Test Graph

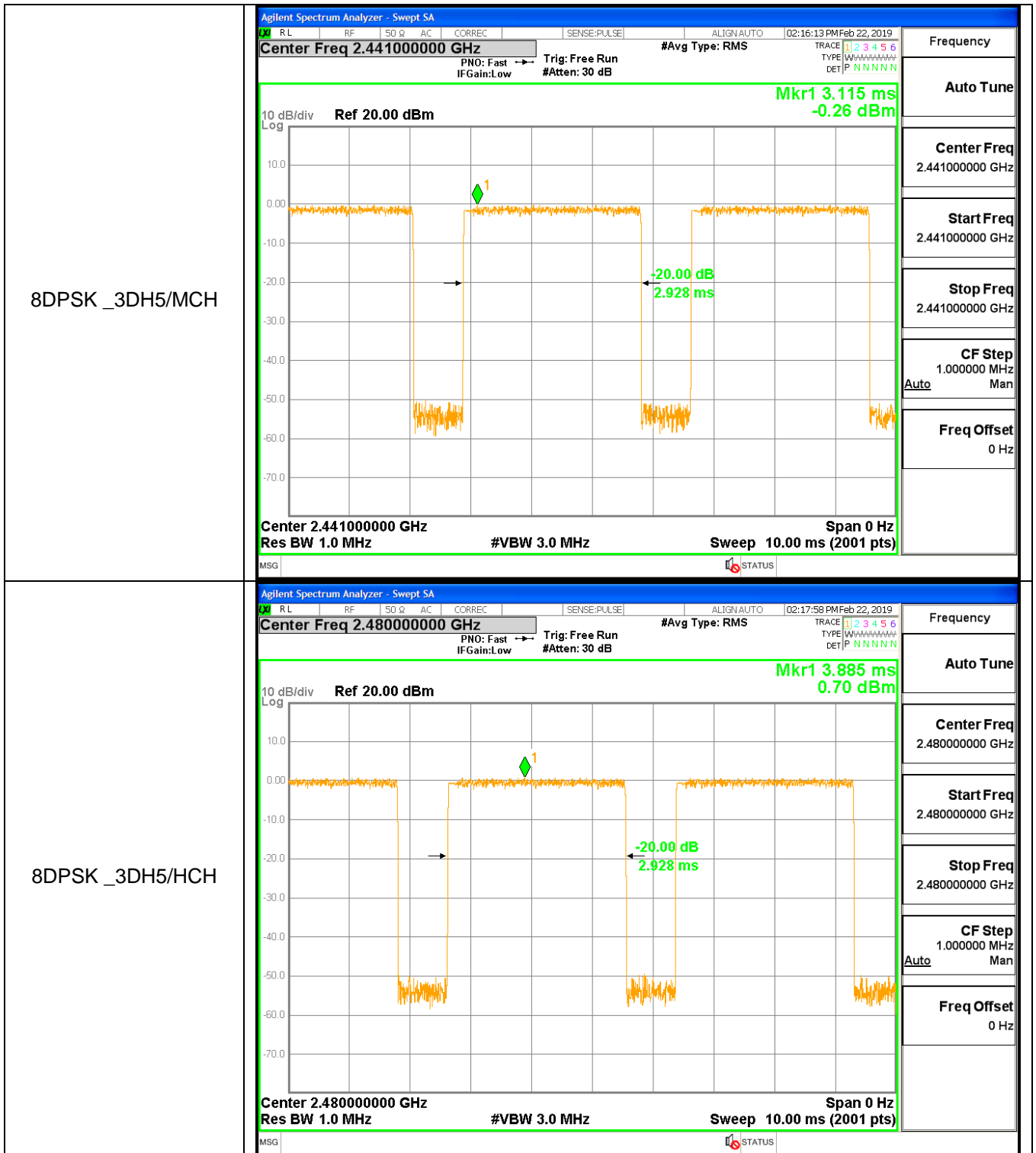








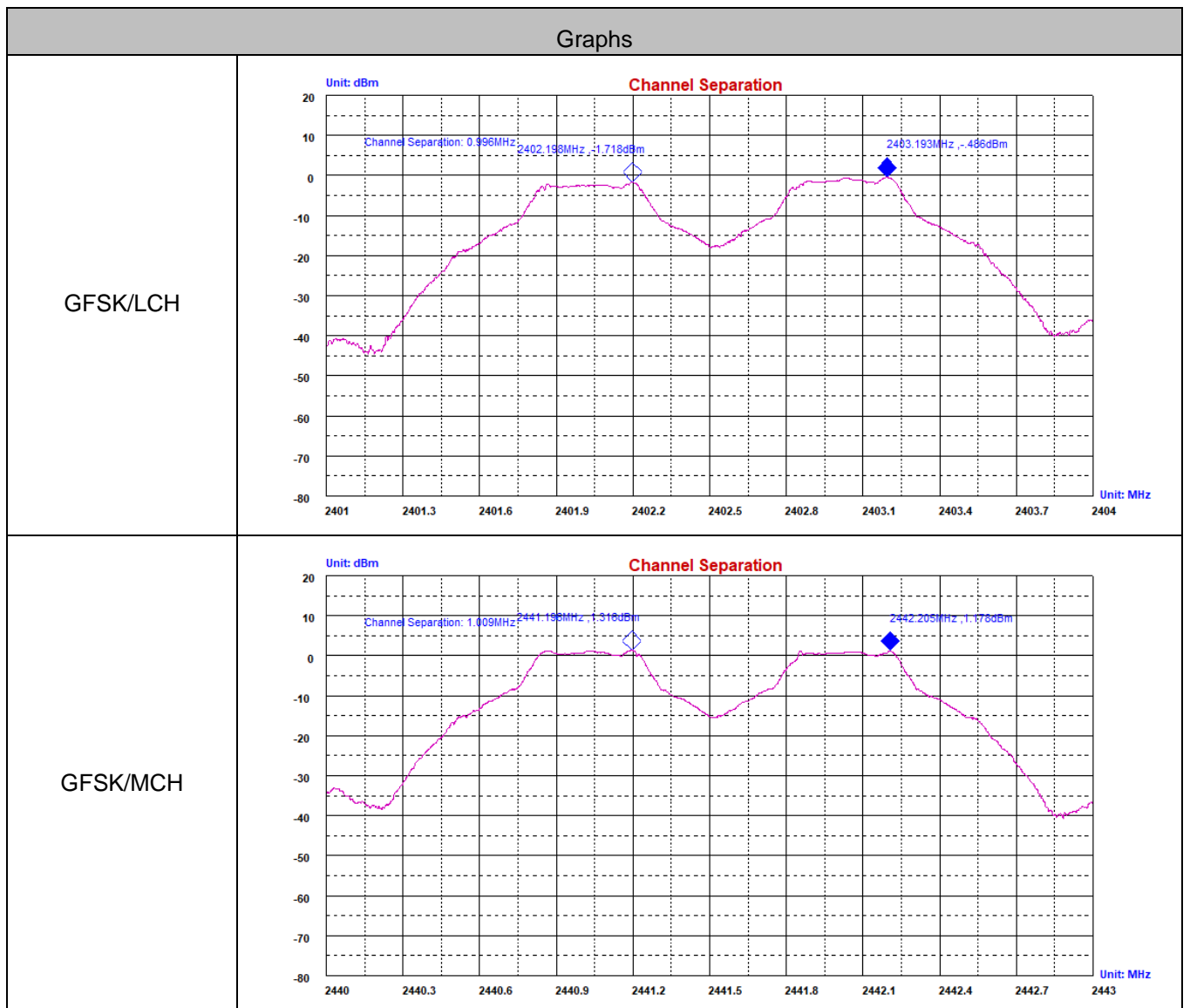


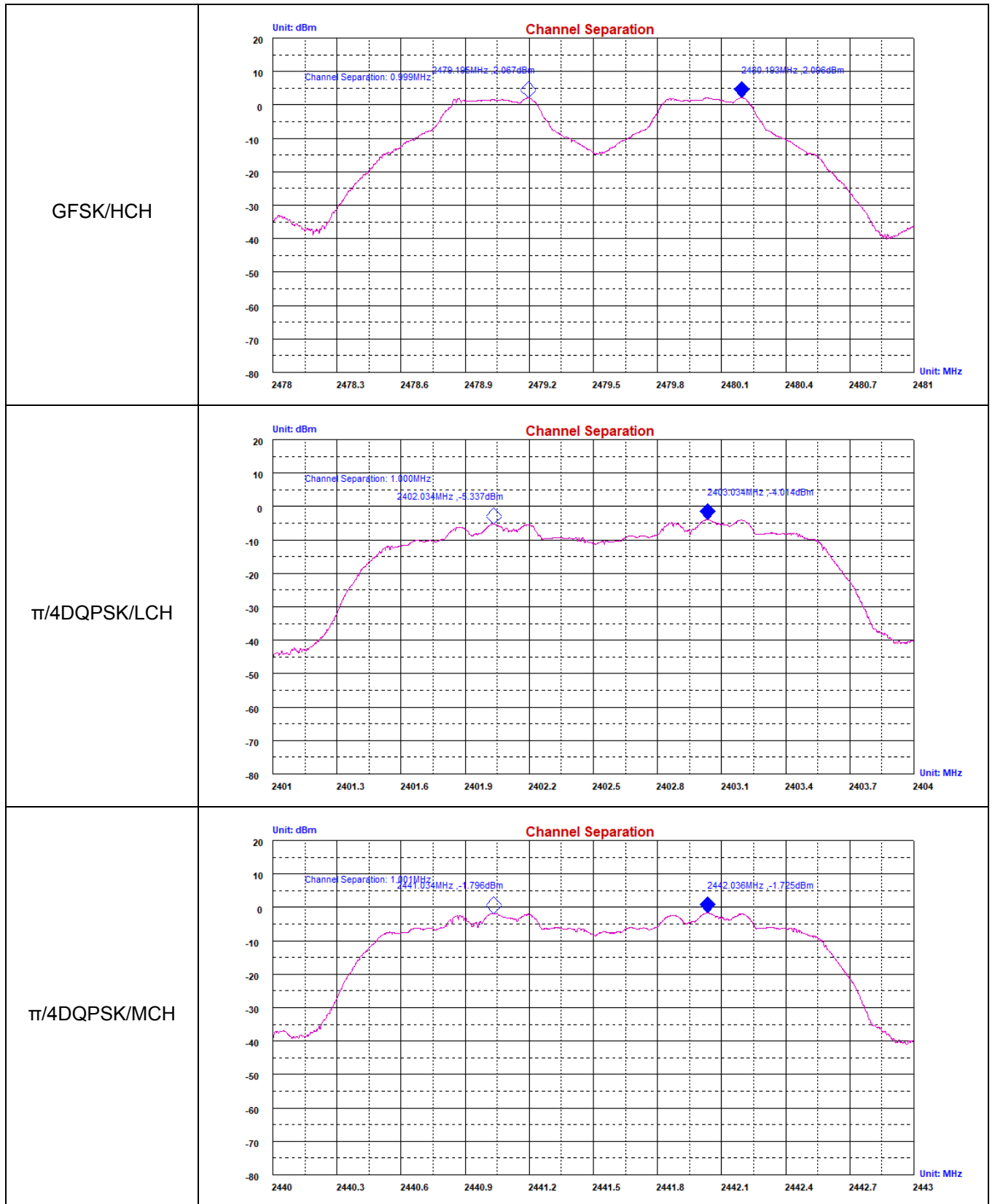


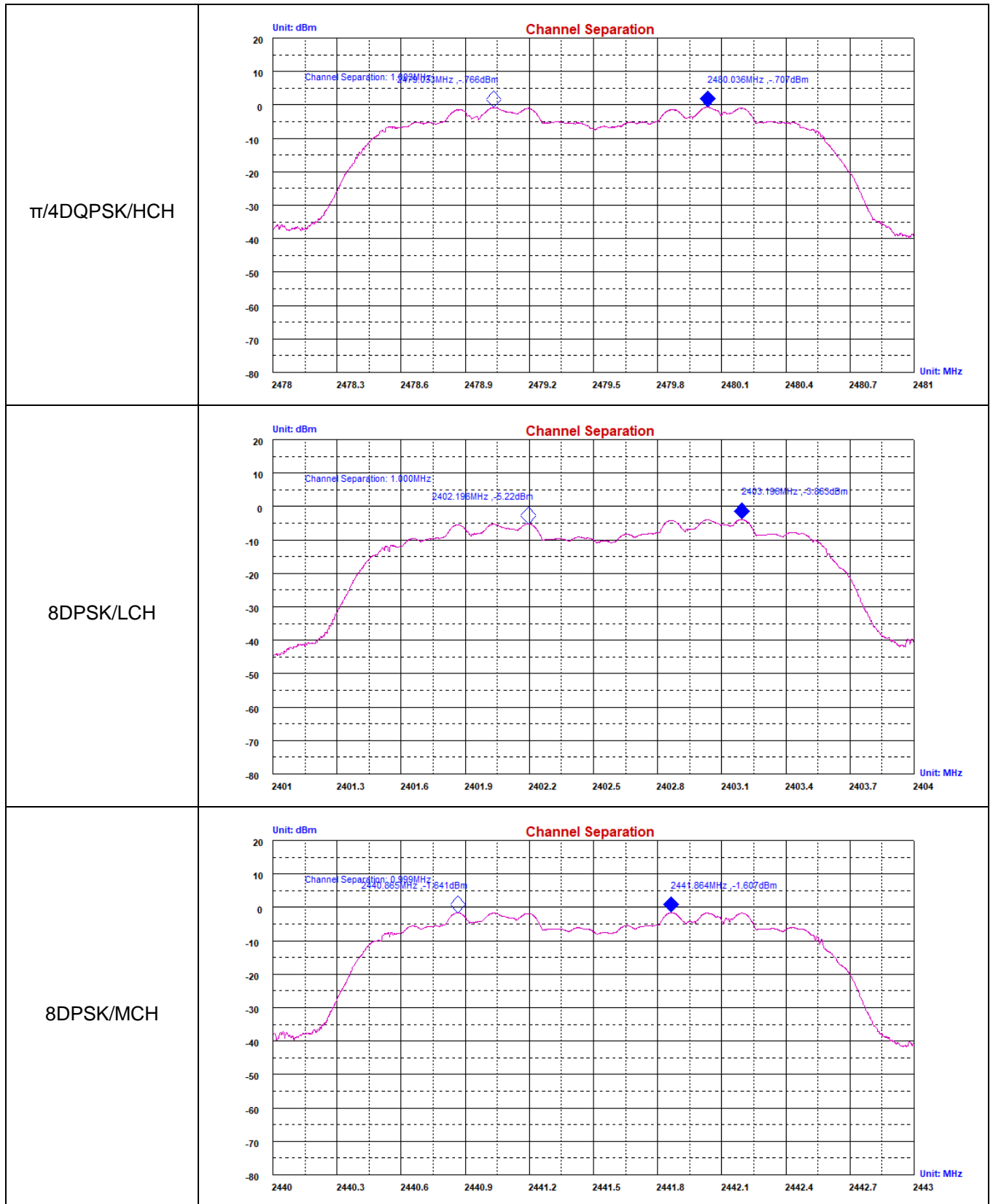
### A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.996	0.629	PASS
GFSK	MCH	1.009	0.627	PASS
GFSK	HCH	0.999	0.625	PASS
$\pi/4$ DQPSK	LCH	1.000	0.817	PASS
$\pi/4$ DQPSK	MCH	1.001	0.817	PASS
$\pi/4$ DQPSK	HCH	1.003	0.817	PASS
8DPSK	LCH	1.000	0.835	PASS
8DPSK	MCH	0.999	0.835	PASS
8DPSK	HCH	0.997	0.840	PASS

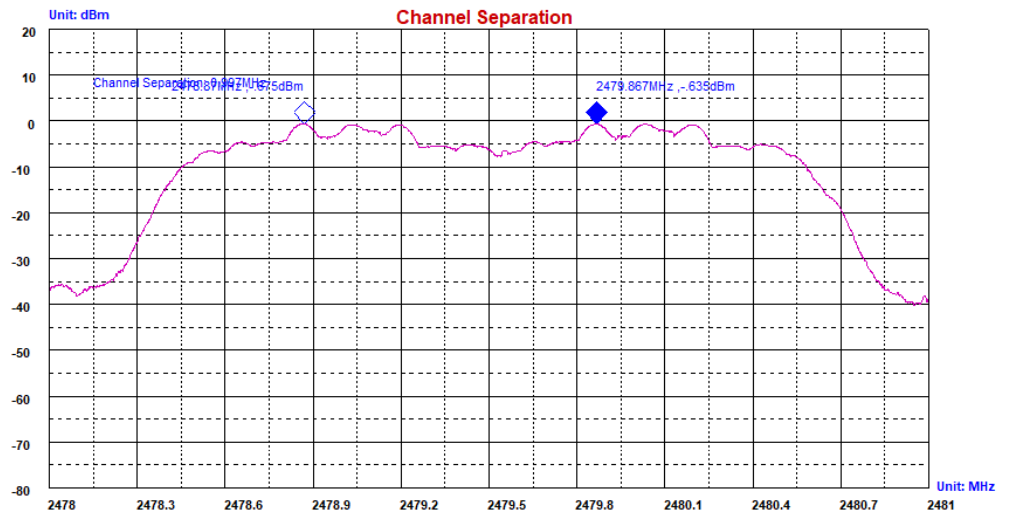
### Test Graph







8DPSK/HCH



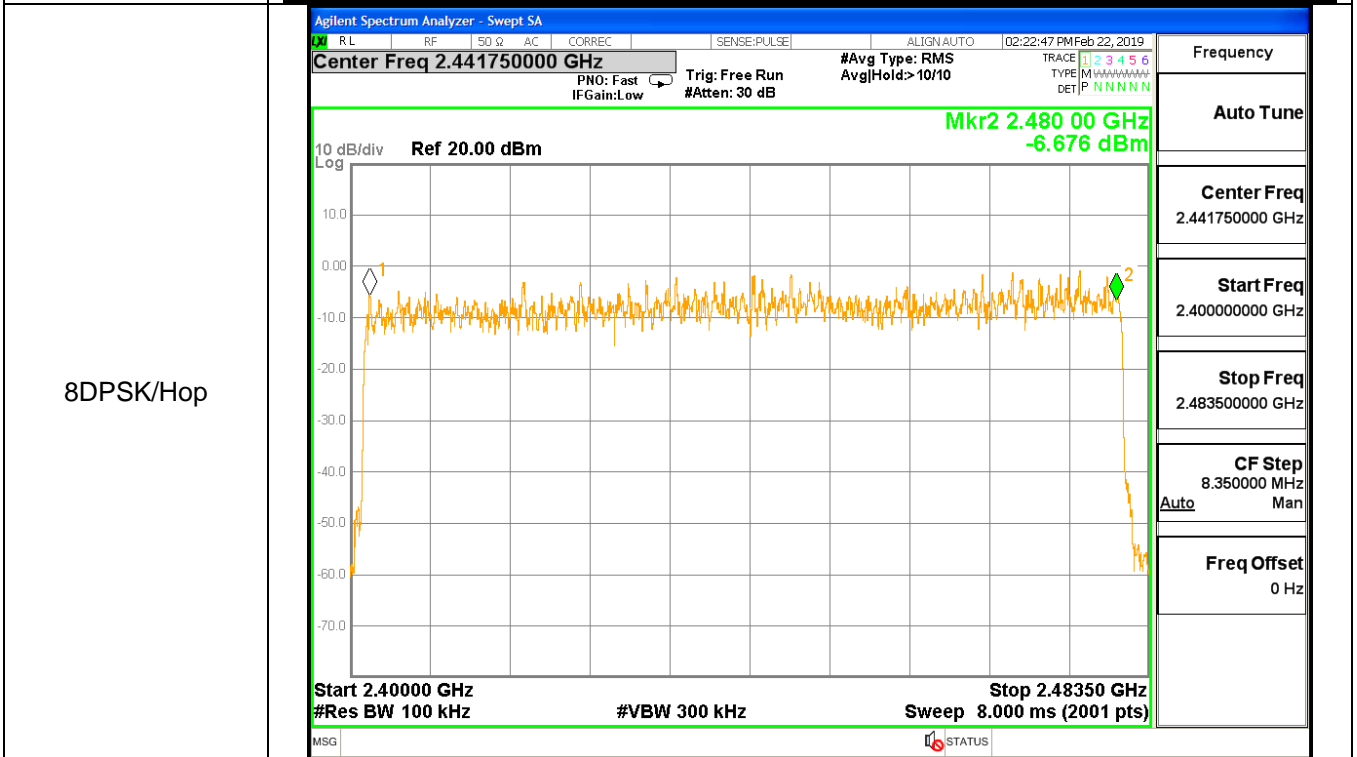
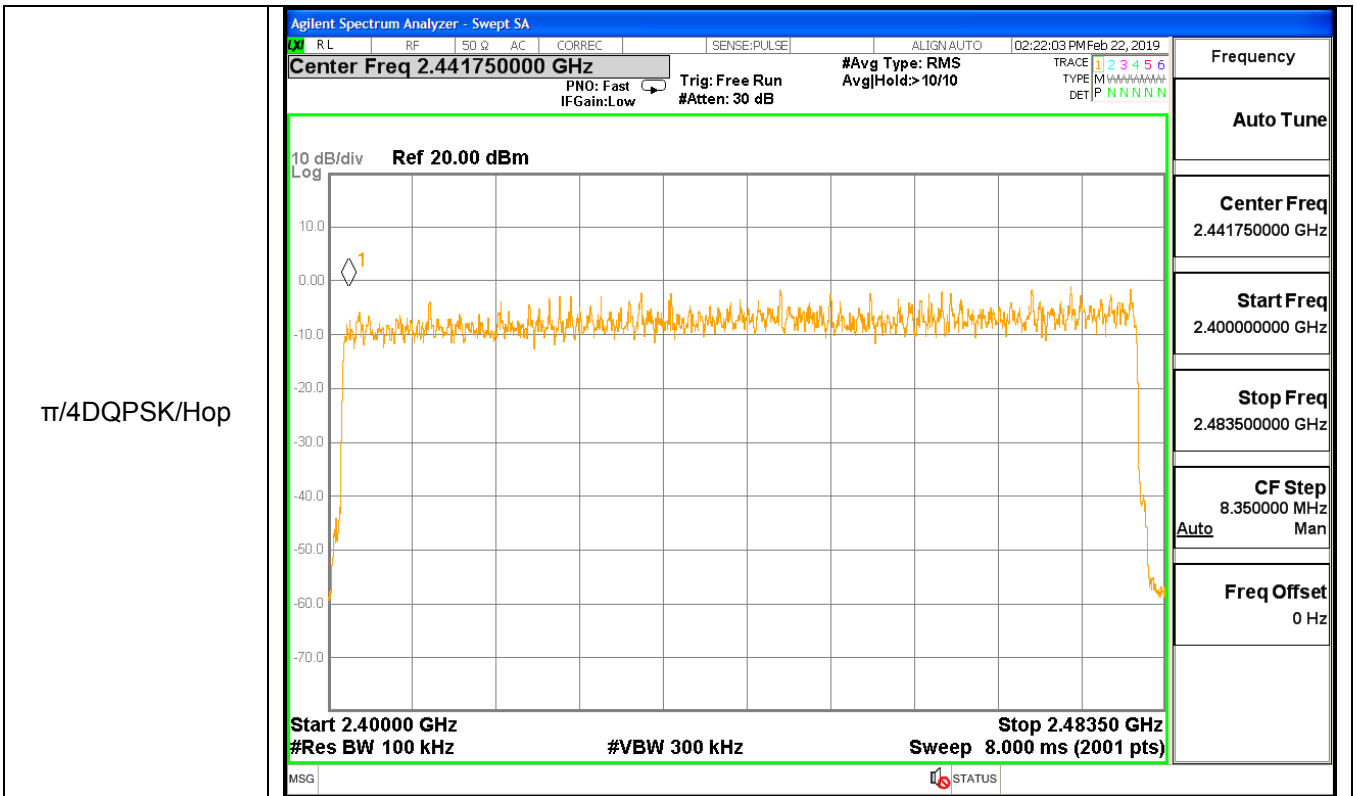
### A.4 Hopping Channel Number

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

### Test Graph



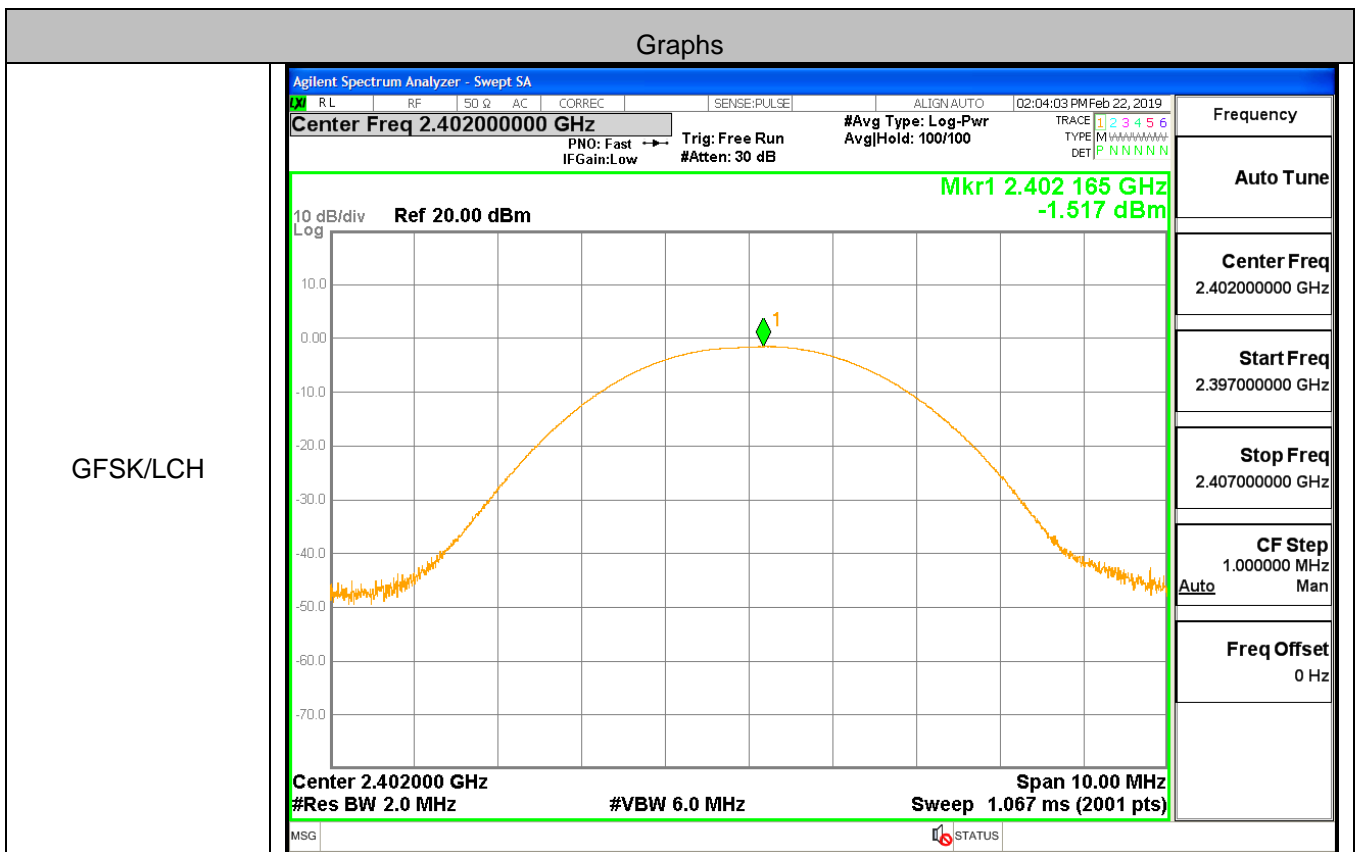


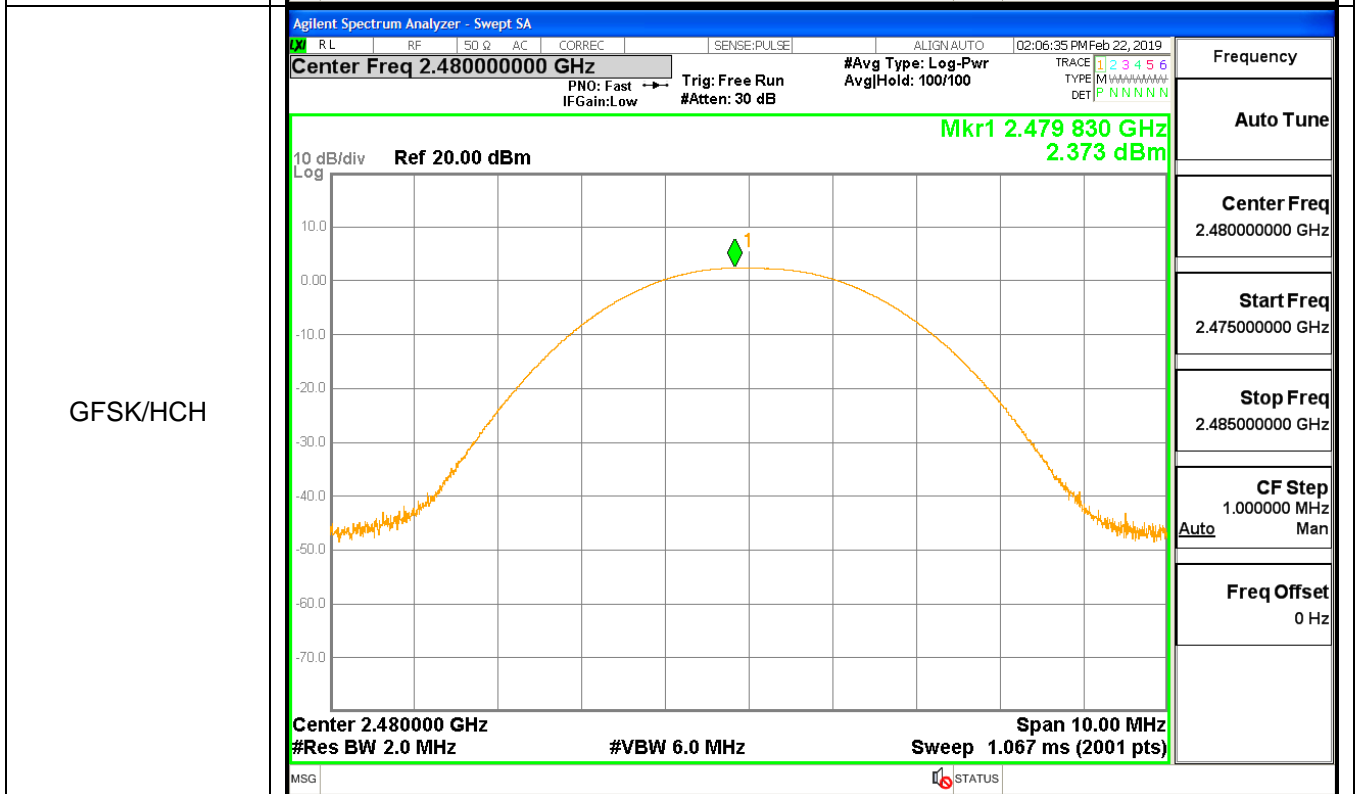
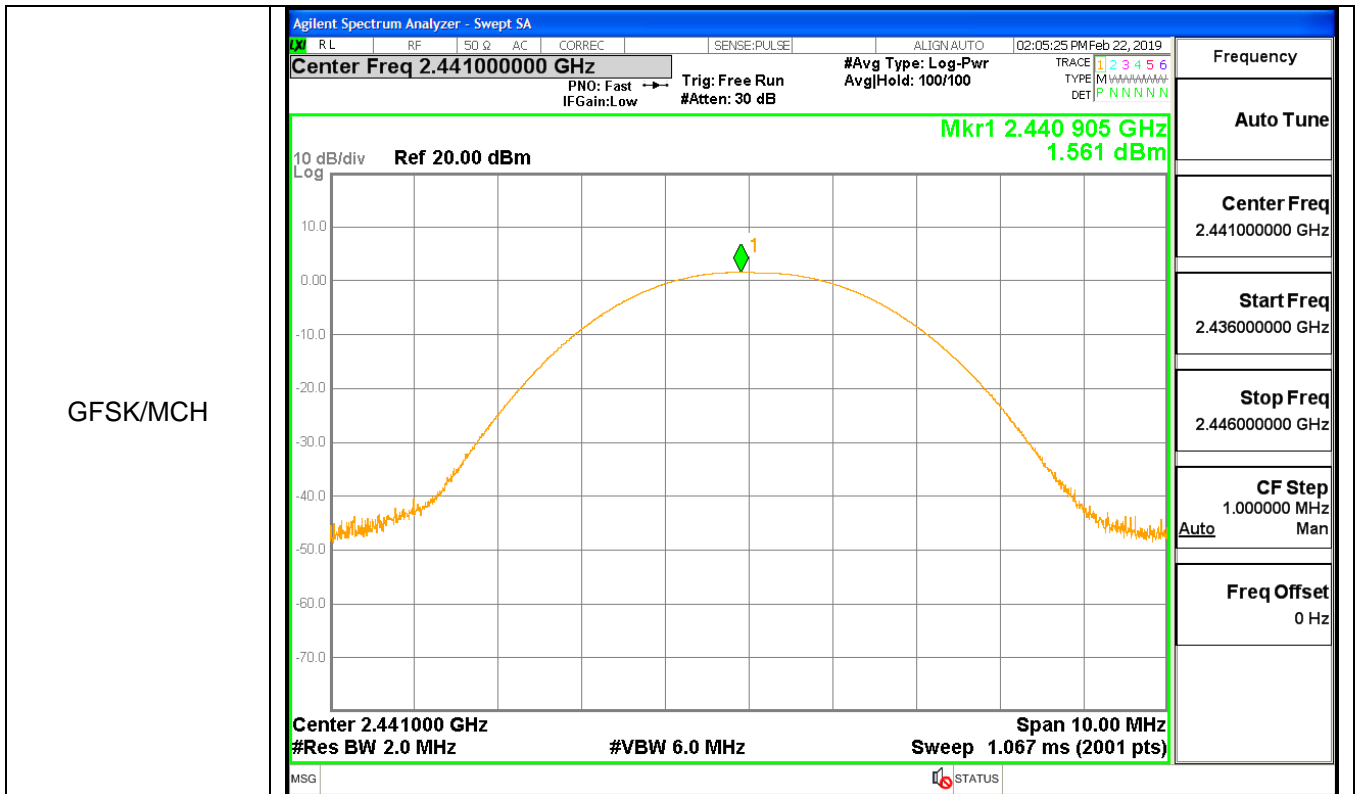


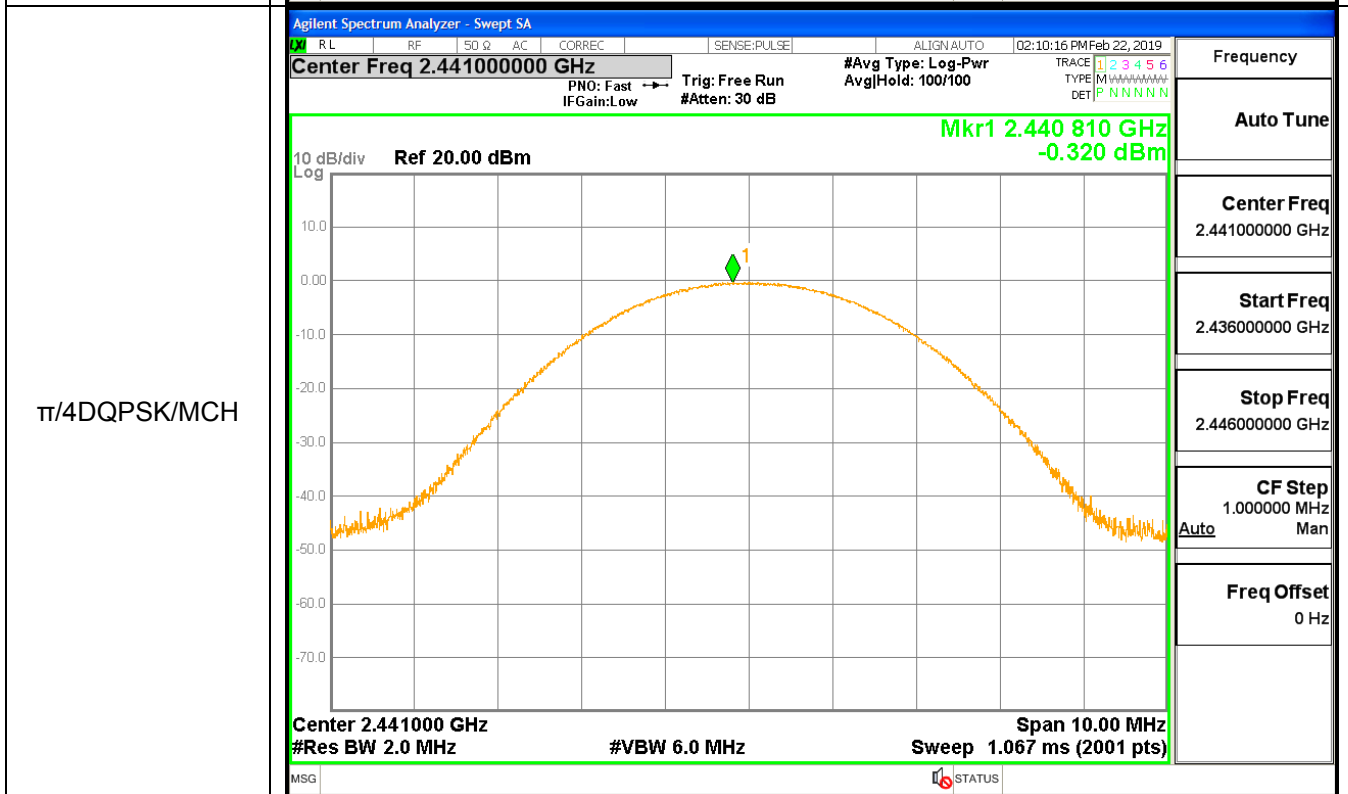
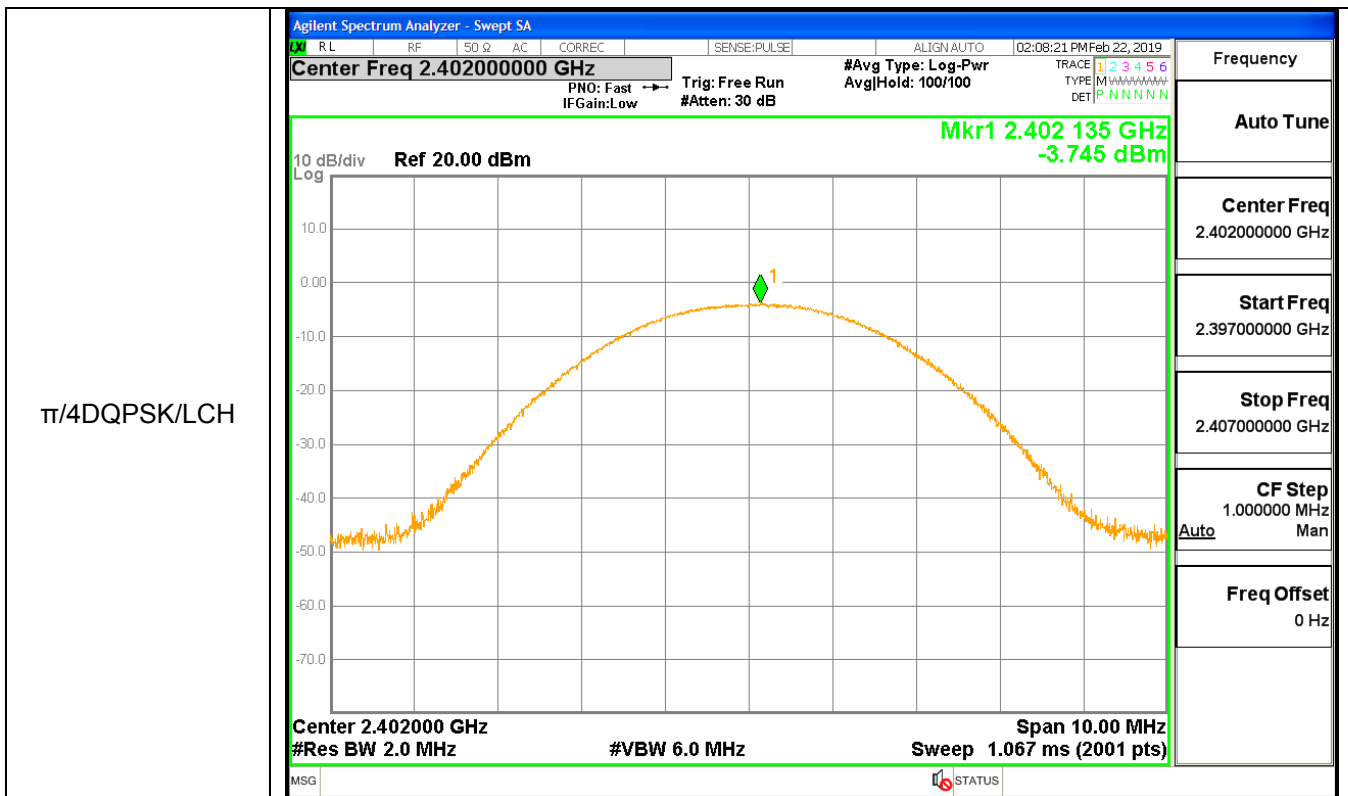
### A.5 Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.517	21	PASS
GFSK	MCH	1.561	21	PASS
GFSK	HCH	2.373	21	PASS
$\pi/4$ DQPSK	LCH	-3.745	21	PASS
$\pi/4$ DQPSK	MCH	-0.320	21	PASS
$\pi/4$ DQPSK	HCH	0.738	21	PASS
8DPSK	LCH	-3.506	21	PASS
8DPSK	MCH	0.174	21	PASS
8DPSK	HCH	1.178	21	PASS

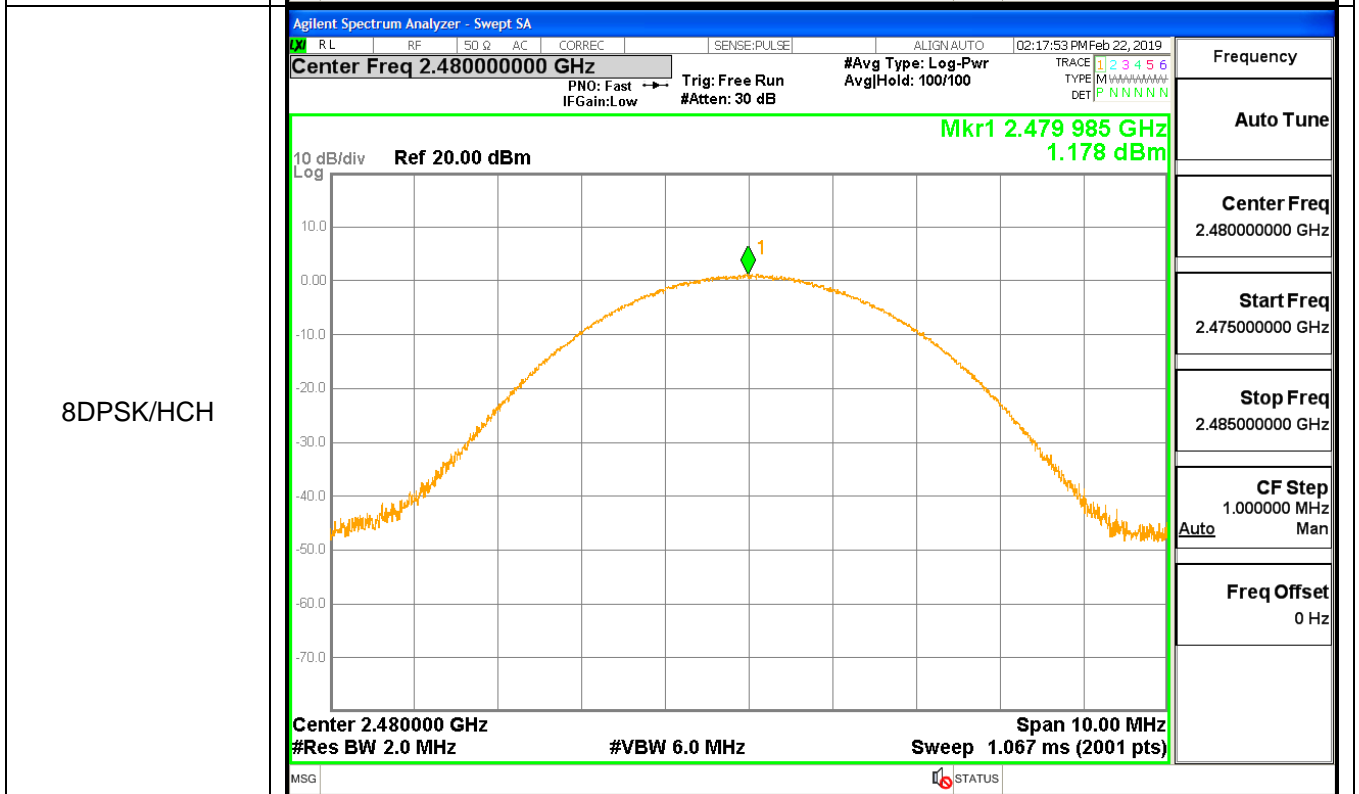
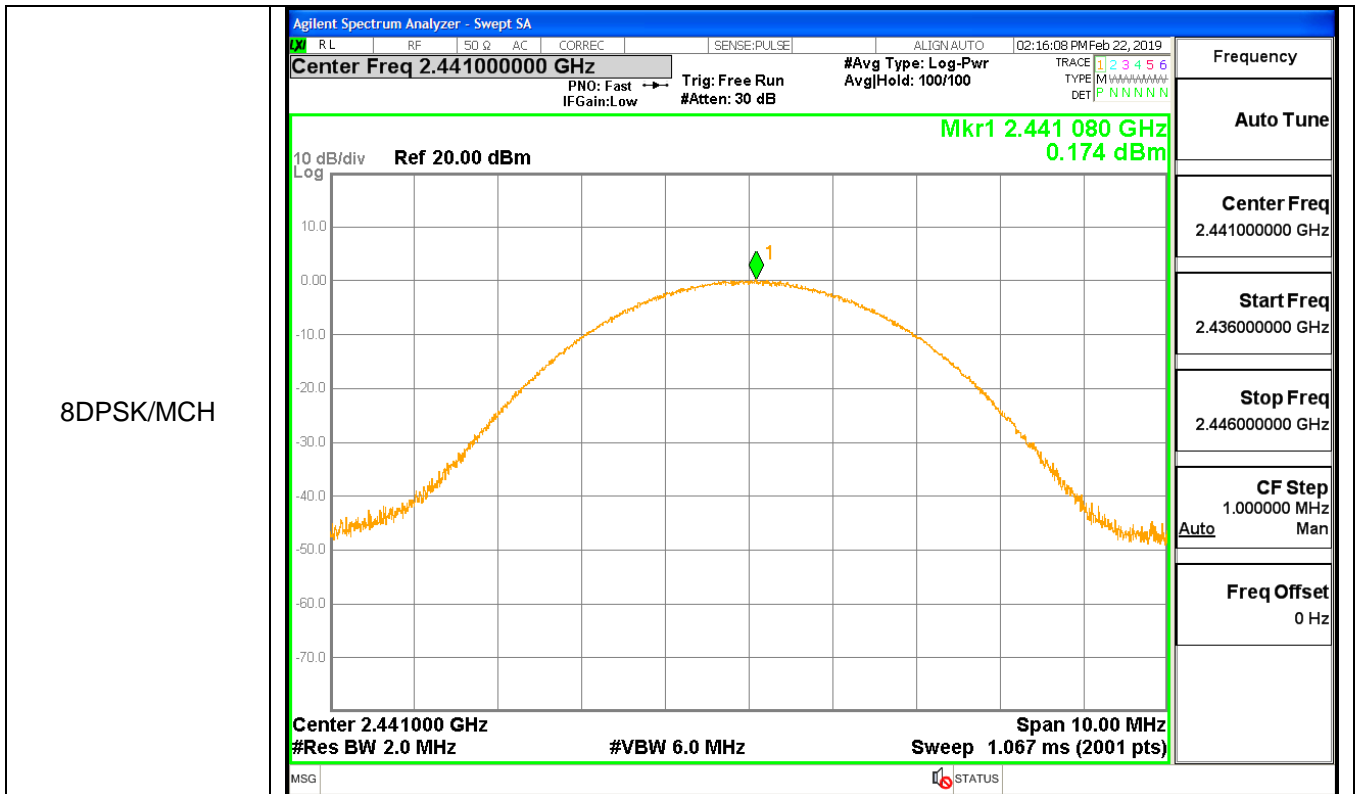
### Test Graph









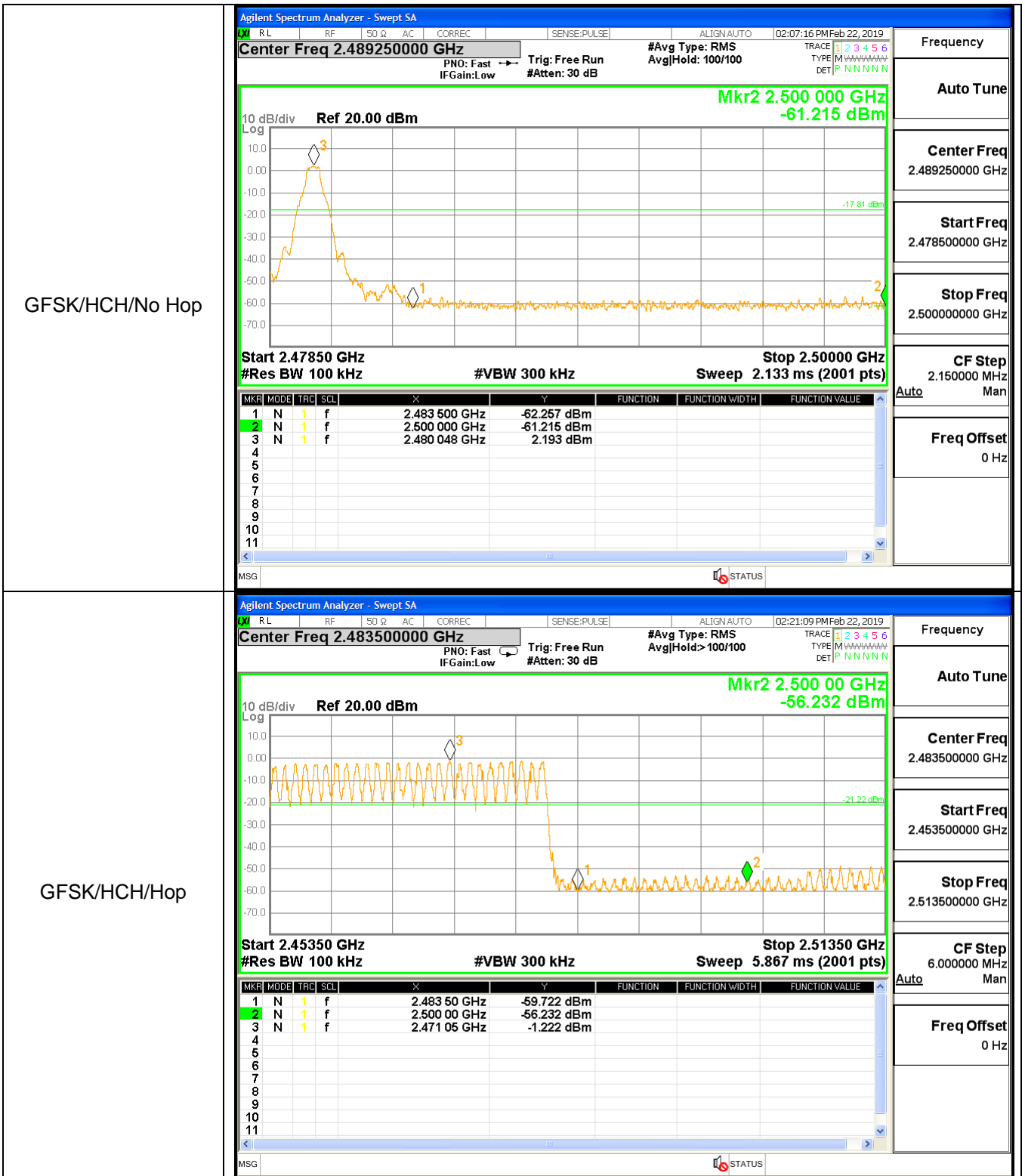


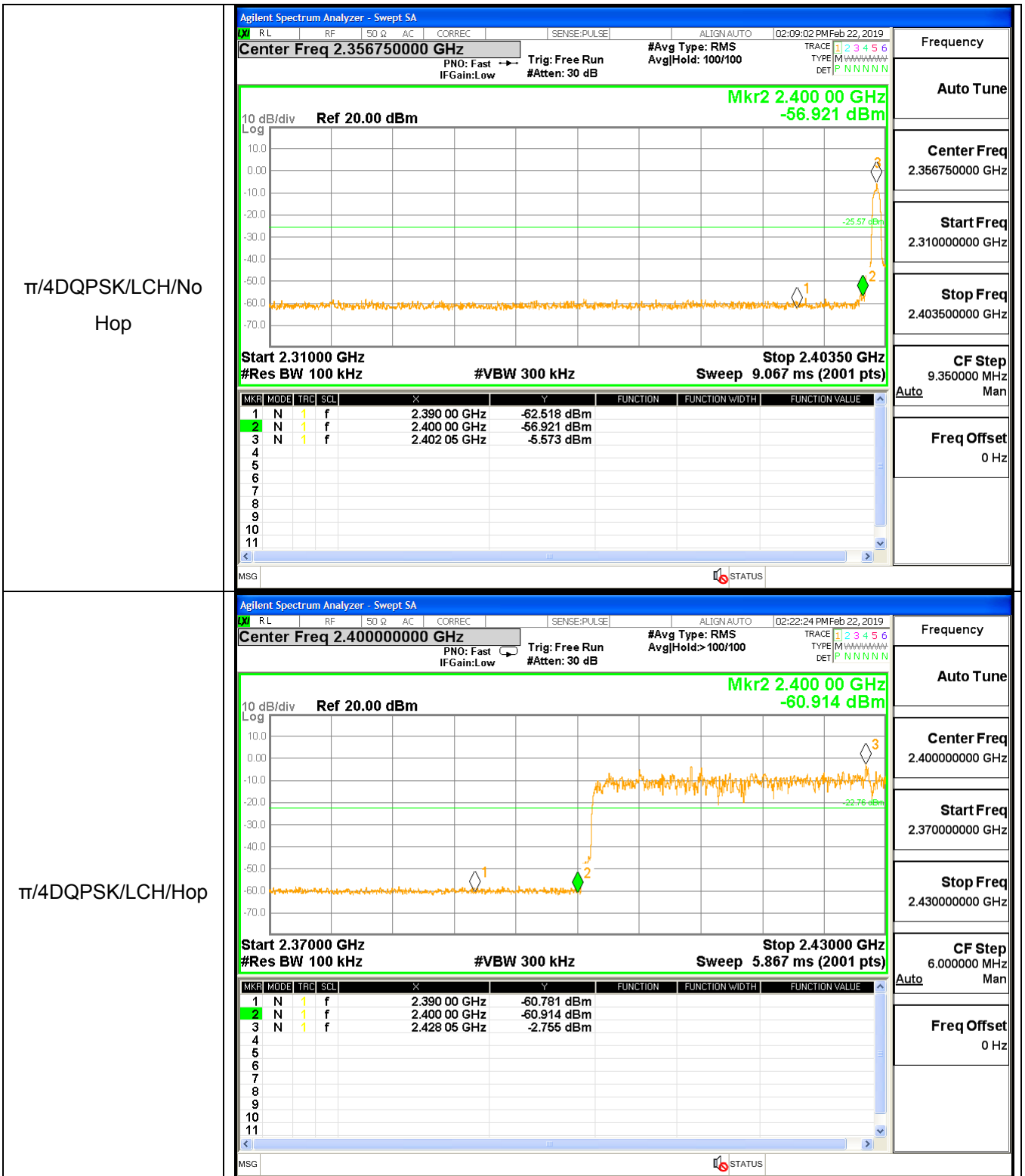
**A.6 Band-edge for RF Conducted Emissions**

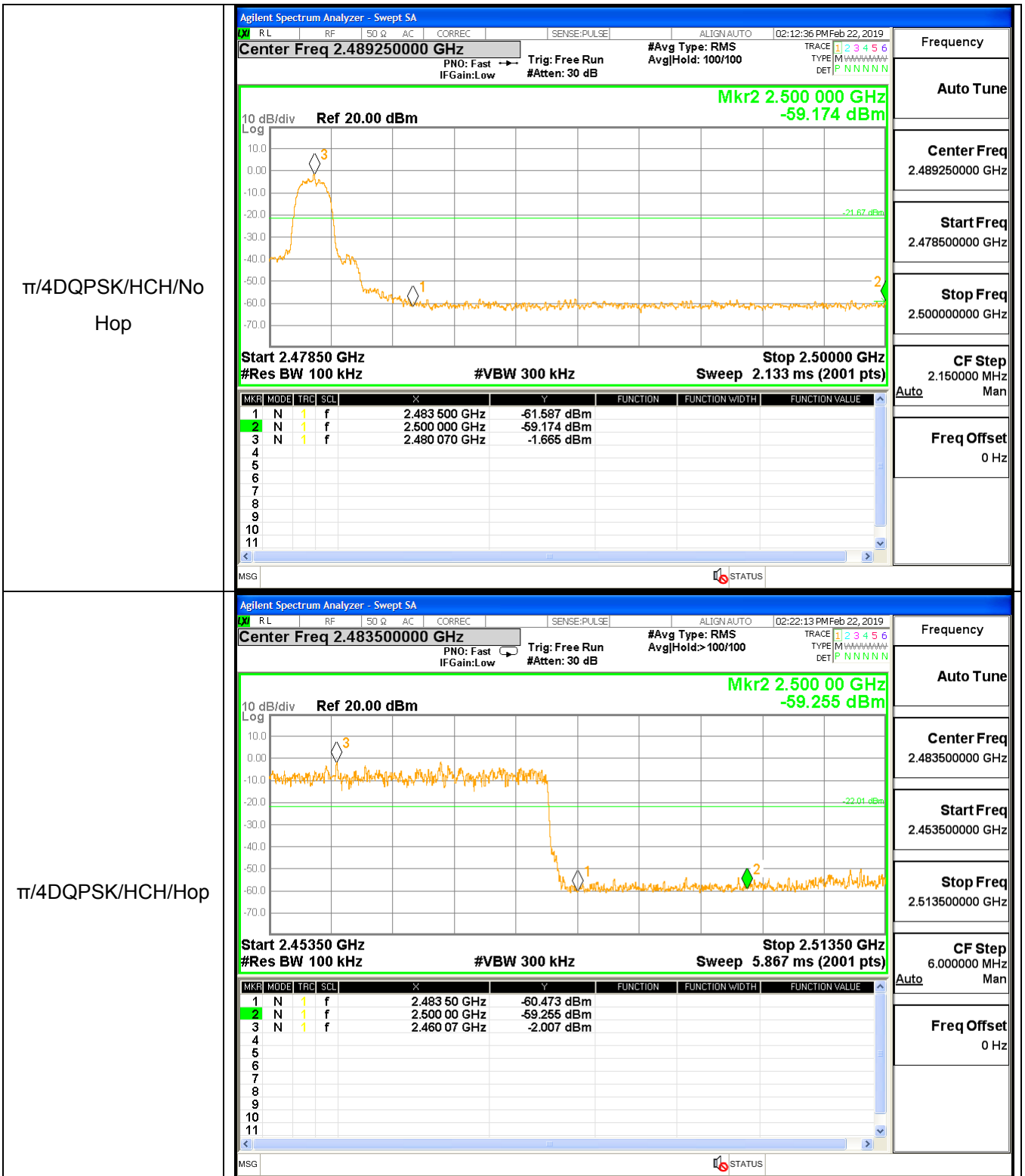
Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
1DH5	2402	2390	-61.02	-21.77	-1.77	Pass
1DH5	2402	2400	-54.03	-21.77	-1.77	Pass
1DH5-Hopping	2402	2390	-59.16	-22.90	-2.90	Pass
1DH5-Hopping	2402	2400	-60.79	-22.90	-2.90	Pass
1DH5	2480	2483.5	-62.26	-17.81	2.19	Pass
1DH5	2480	2500	-61.22	-17.81	2.19	Pass
1DH5-Hopping	2480	2483.5	-59.72	-21.22	-1.22	Pass
1DH5-Hopping	2480	2500	-56.23	-21.22	-1.22	Pass
2DH5	2402	2390	-62.52	-25.57	-5.57	Pass
2DH5	2402	2400	-56.92	-25.57	-5.57	Pass
2DH5-Hopping	2480	2483.5	-60.47	-22.01	-2.01	Pass
2DH5-Hopping	2480	2500	-59.26	-22.01	-2.01	Pass
2DH5	2480	2483.5	-61.59	-21.67	-1.67	Pass
2DH5	2480	2500	-59.17	-21.67	-1.67	Pass
2DH5-Hopping	2402	2390	-60.78	-22.76	-2.76	Pass
2DH5-Hopping	2402	2400	-60.91	-22.76	-2.76	Pass
3DH5	2402	2390	-5.40	-62.75	-25.40	Pass
3DH5	2402	2400	-5.40	-57.61	-25.40	Pass
3DH5-Hopping	2402	2390	-3.87	-59.90	-23.87	Pass
3DH5-Hopping	2402	2400	-3.87	-60.42	-23.87	Pass
3DH5	2480	2483.5	-1.08	-56.78	-21.08	Pass
3DH5	2480	2500	-1.08	-59.36	-21.08	Pass
3DH5-Hopping	2480	2483.5	-1.36	-59.46	-21.36	Pass
3DH5-Hopping	2480	2500	-1.36	-58.02	-21.36	Pass

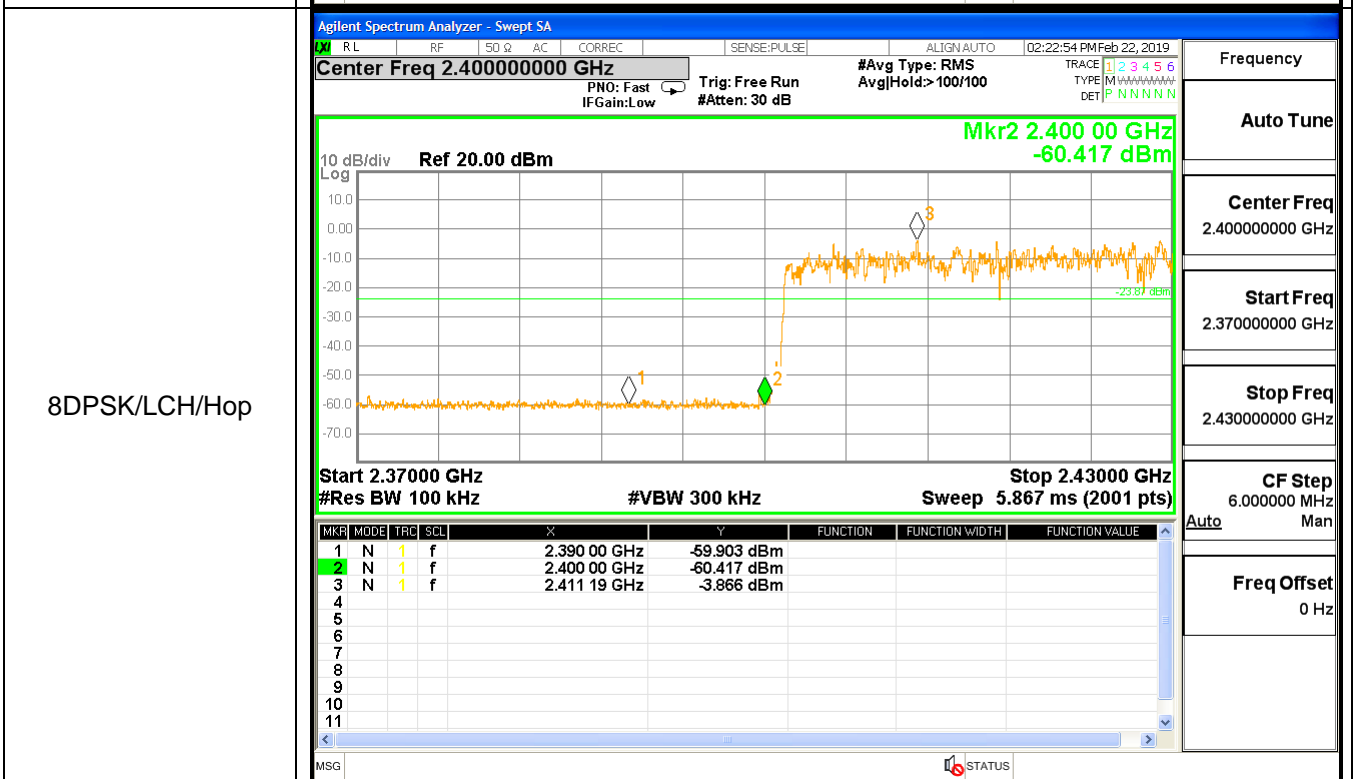
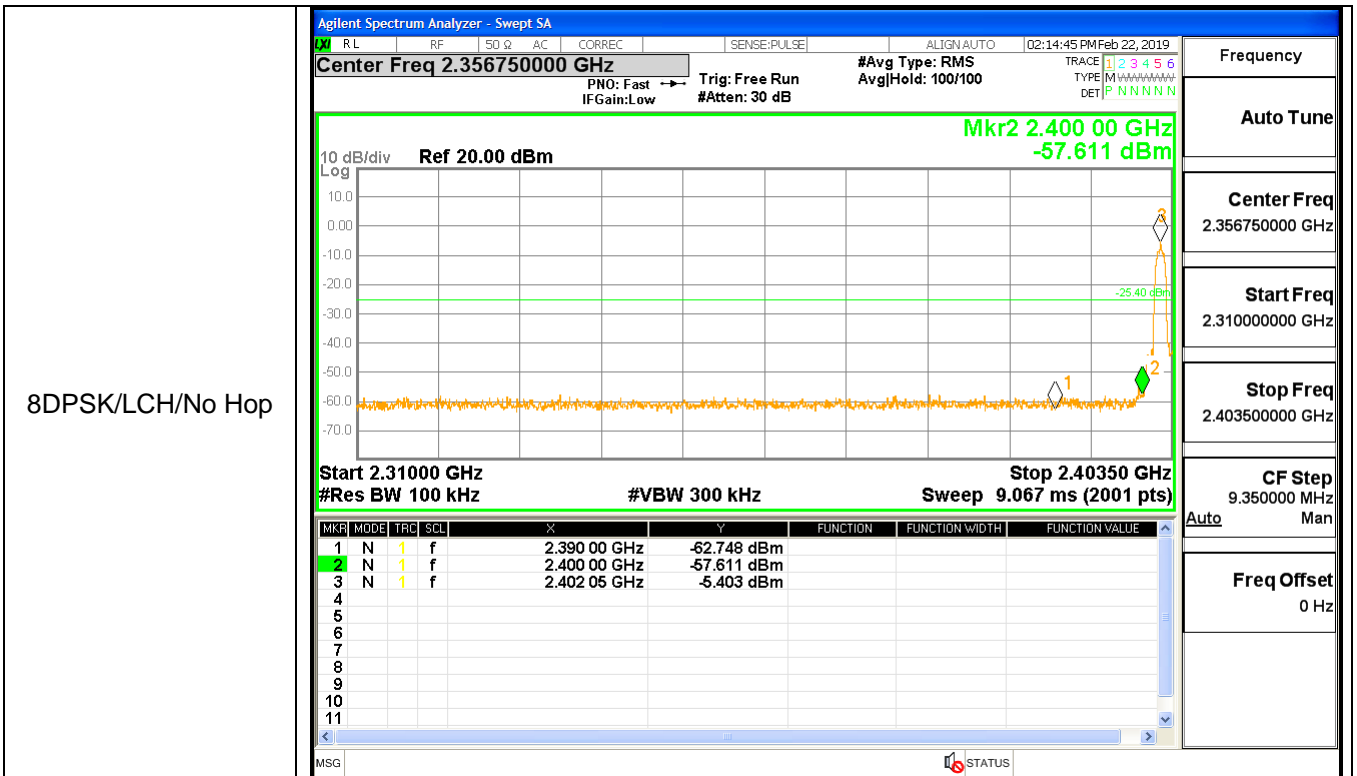


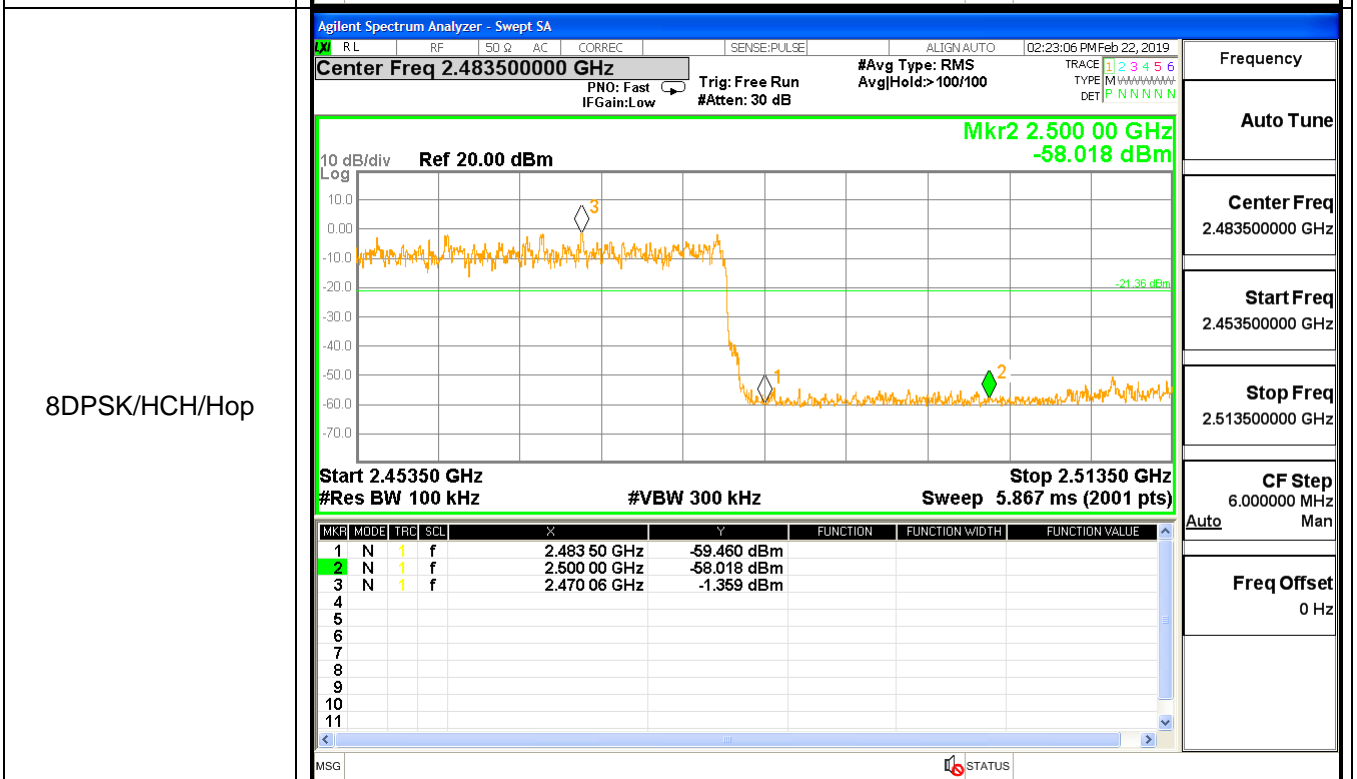
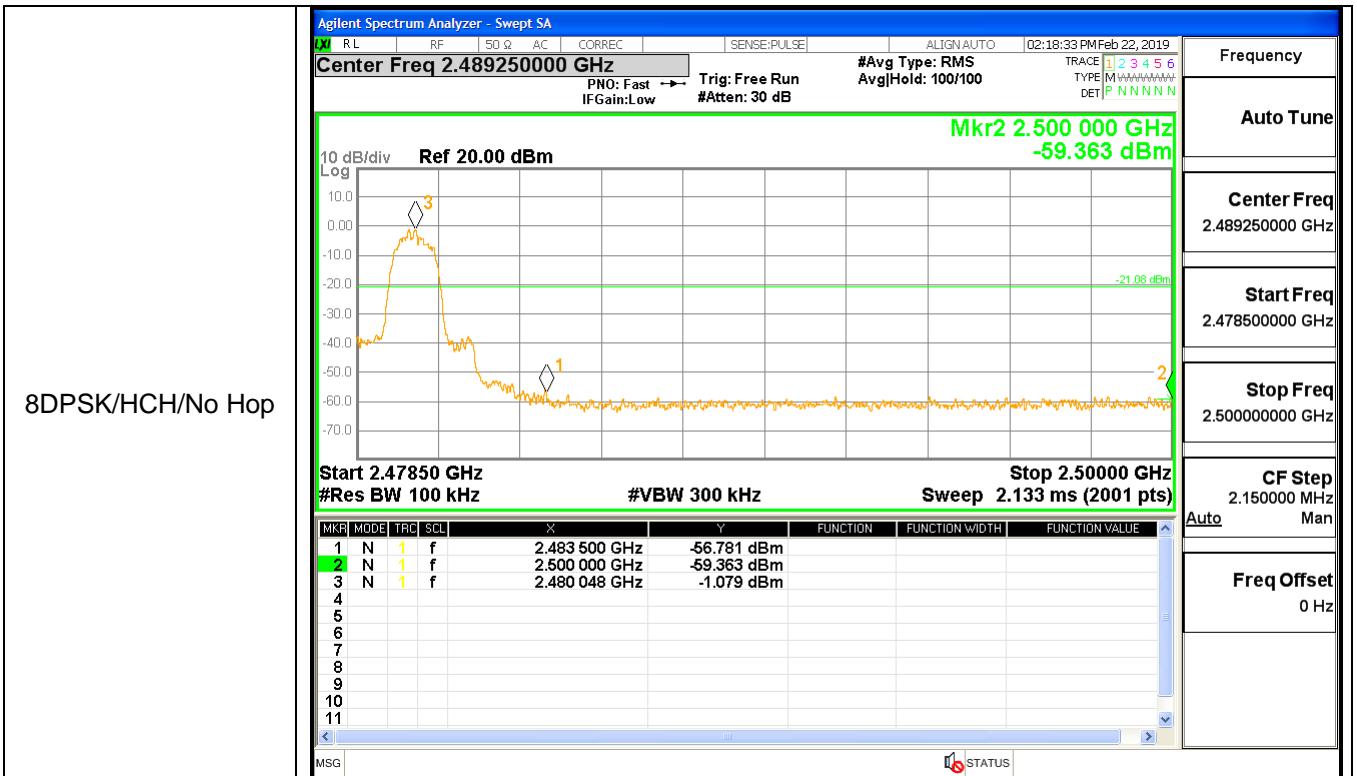




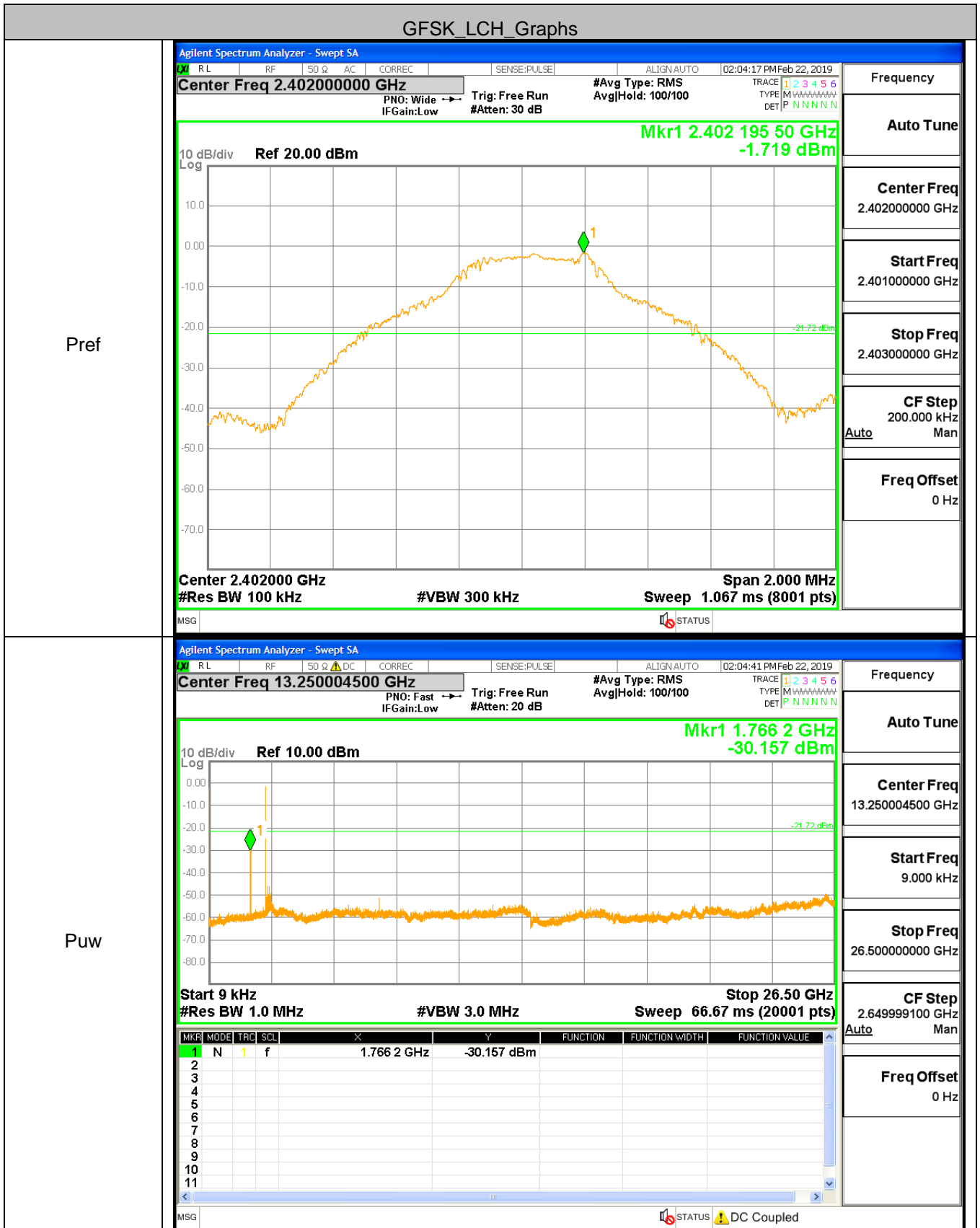






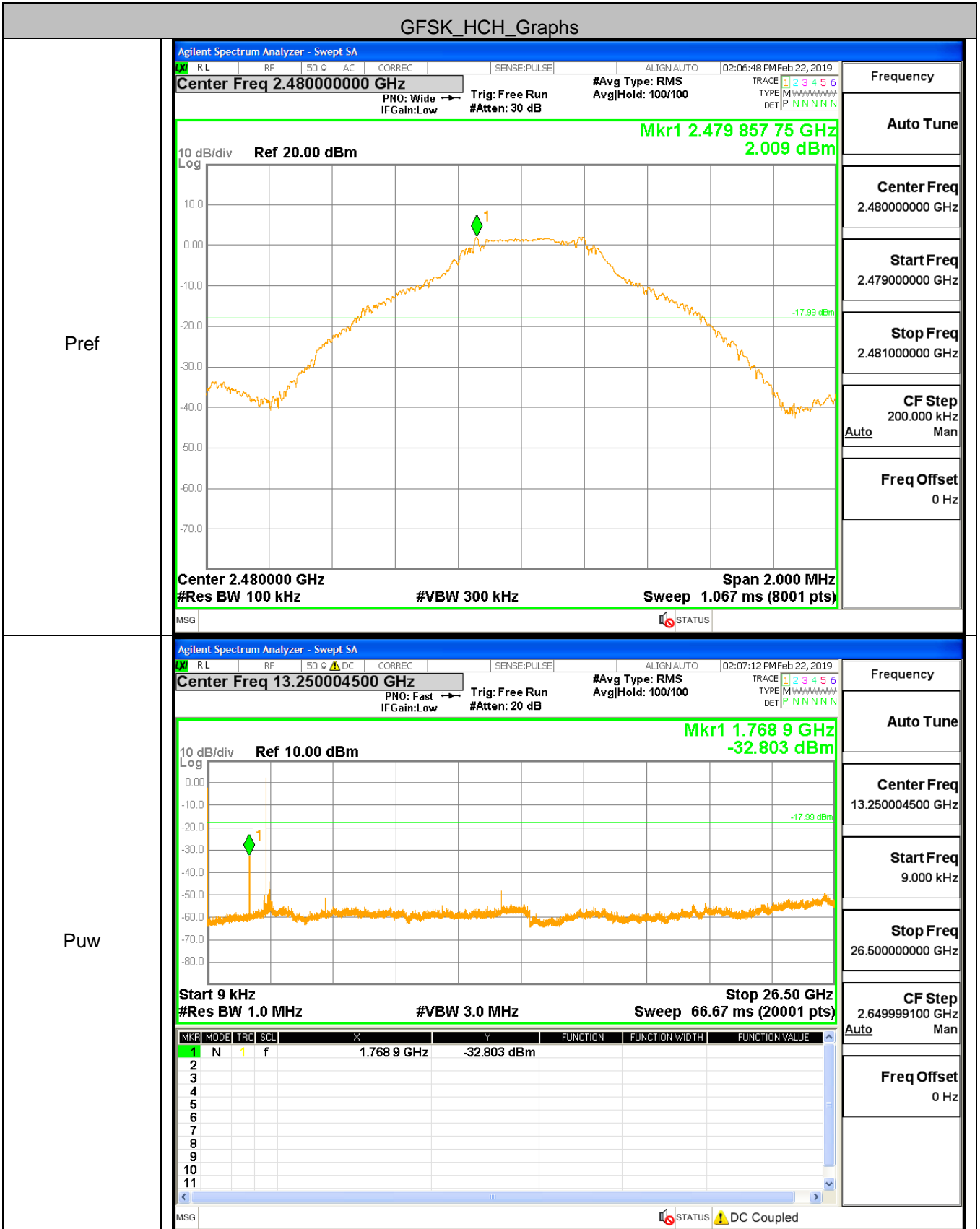


## A.7 RF Conducted Spurious Emissions Test Graph





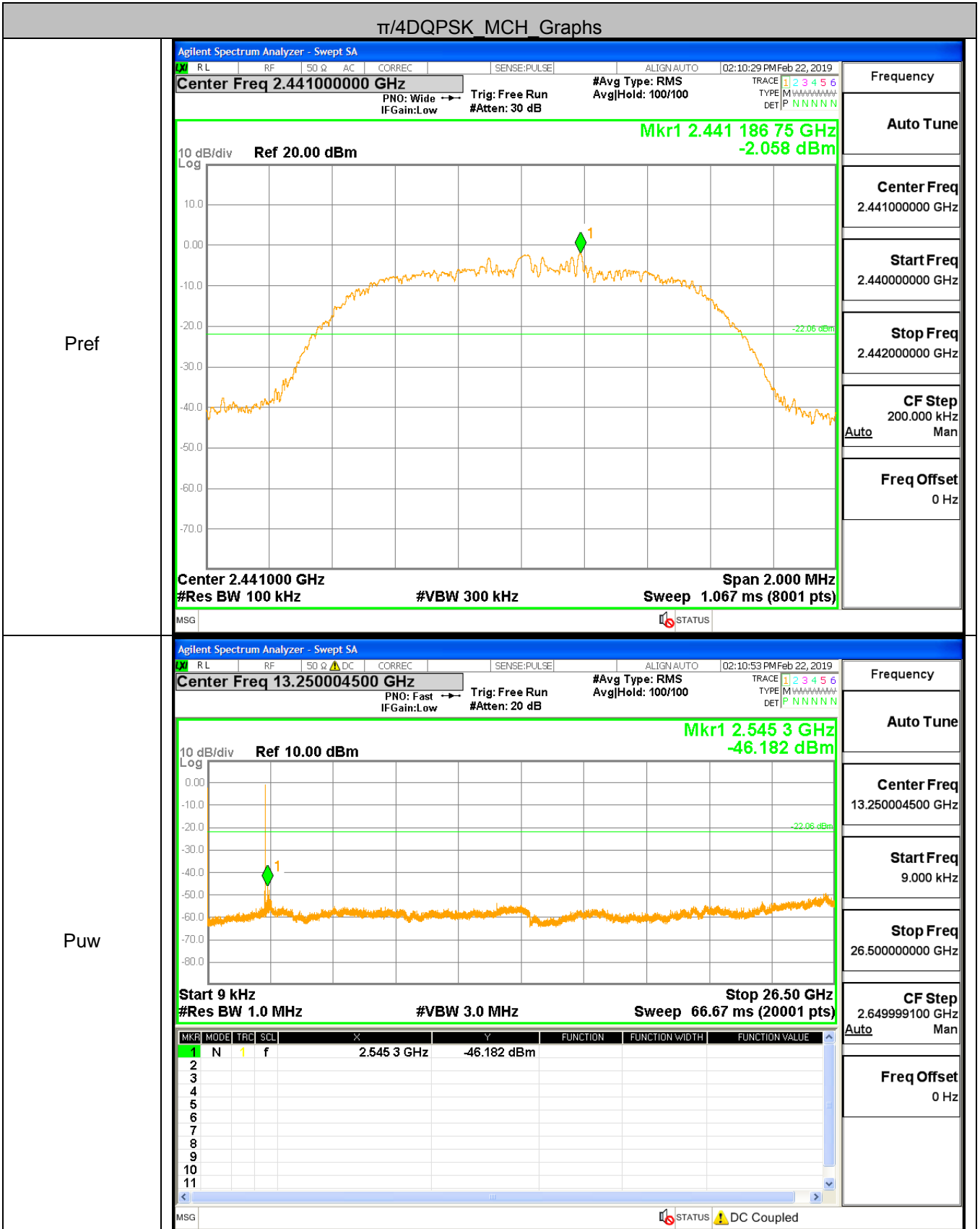
GFSK\_HCH\_Graphs



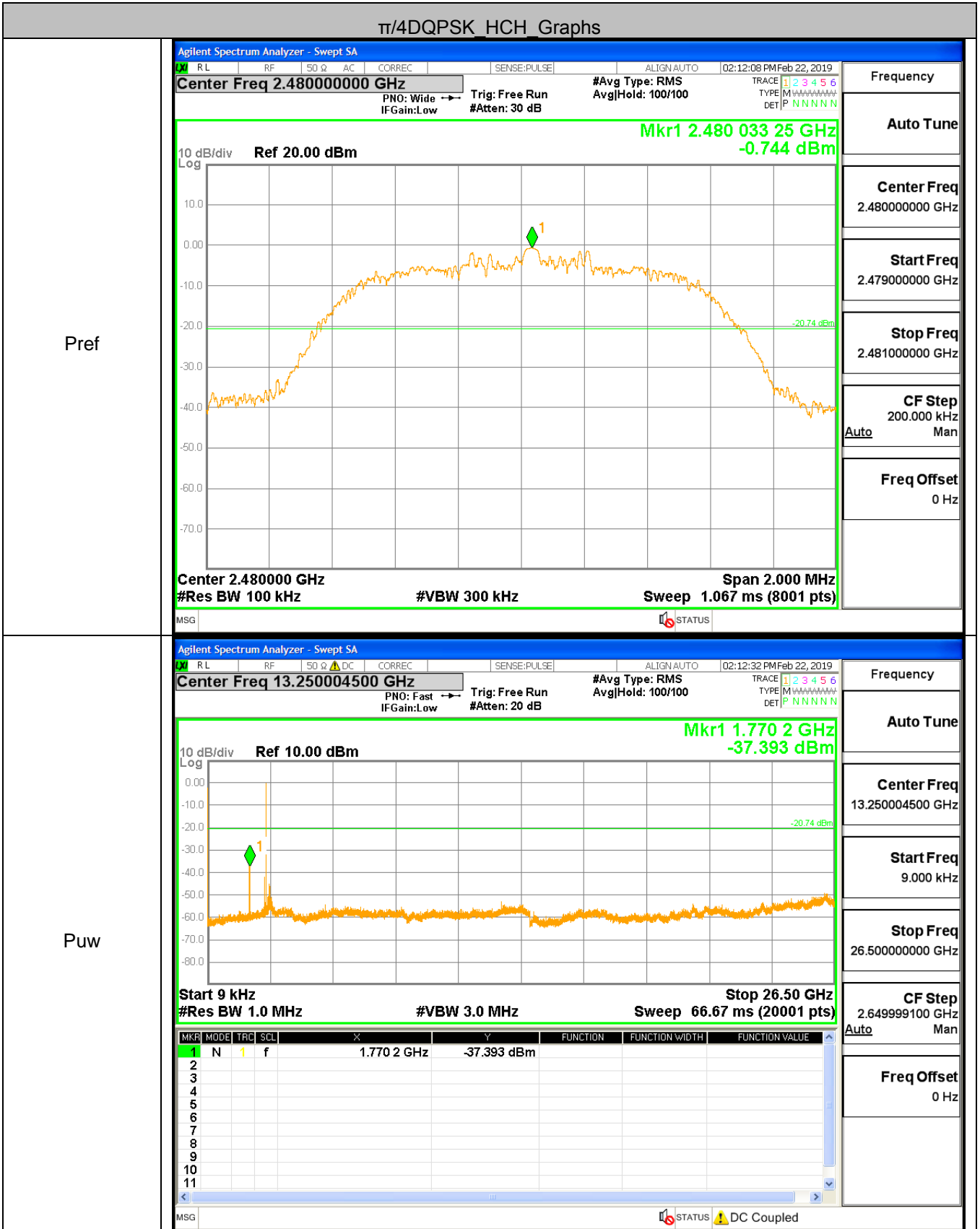




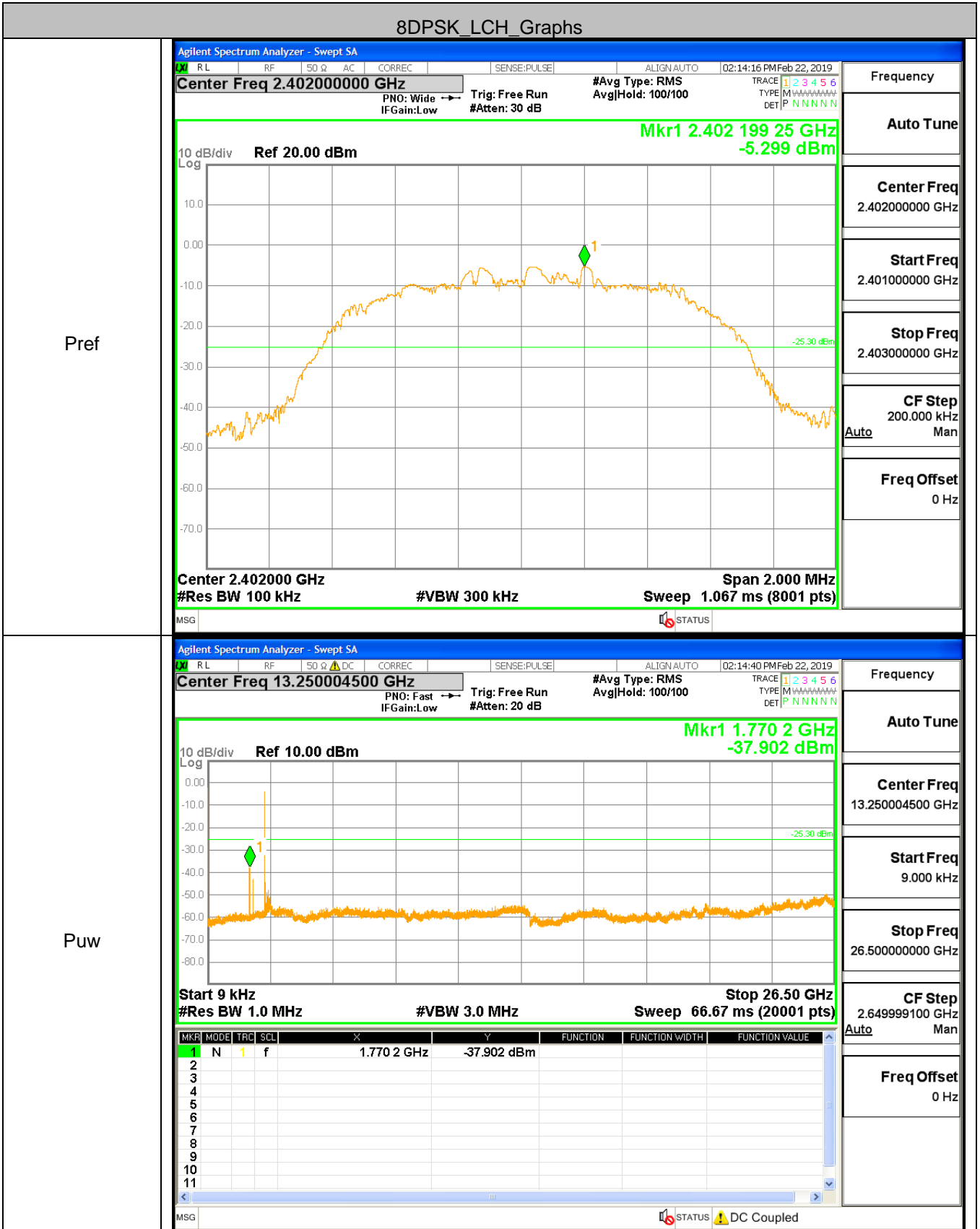
$\pi/4$ DQPSK MCH Graphs



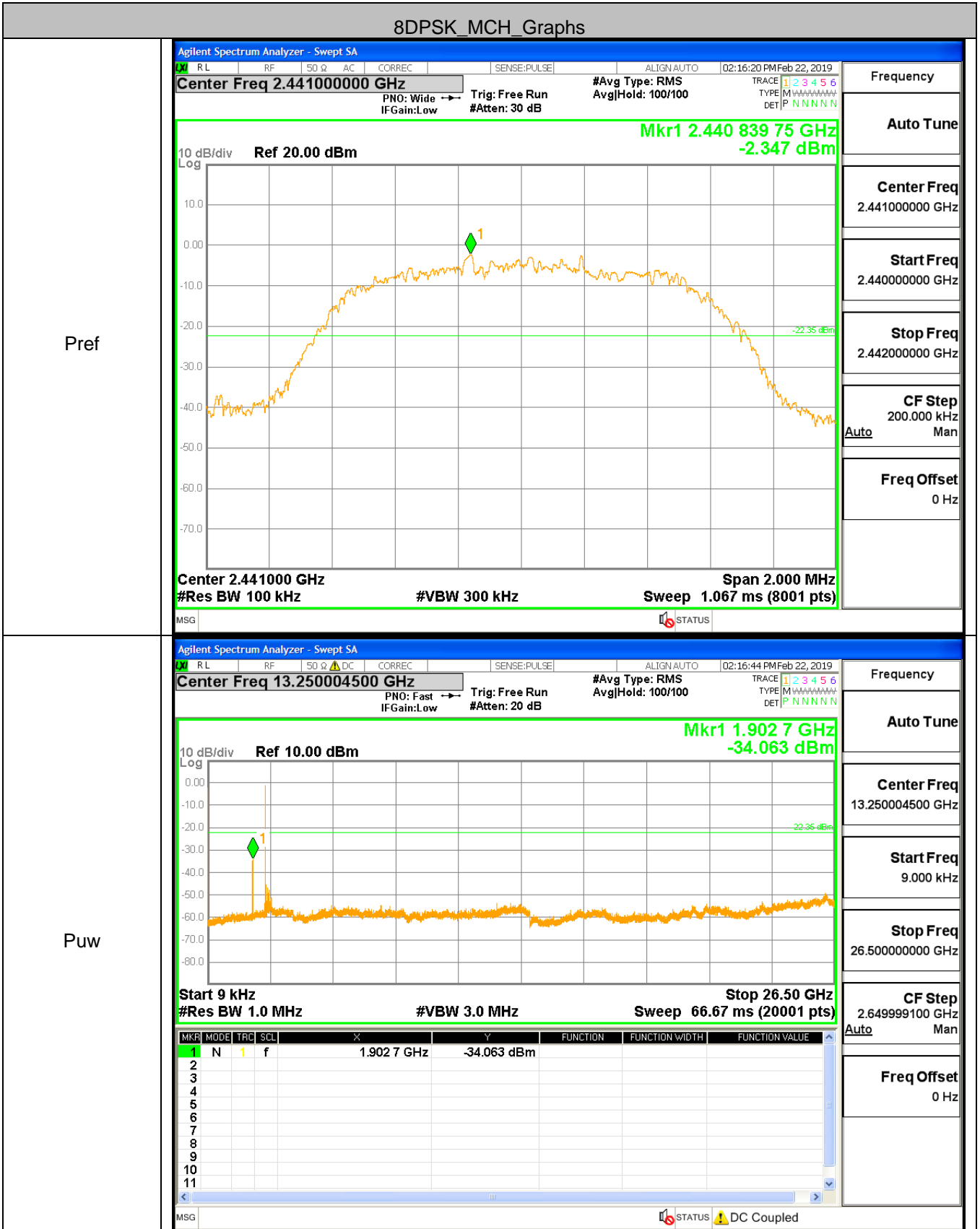
$\pi/4$ DQPSK HCH Graphs



8DPSK\_LCH\_Graphs



8DPSK\_MCH\_Graphs

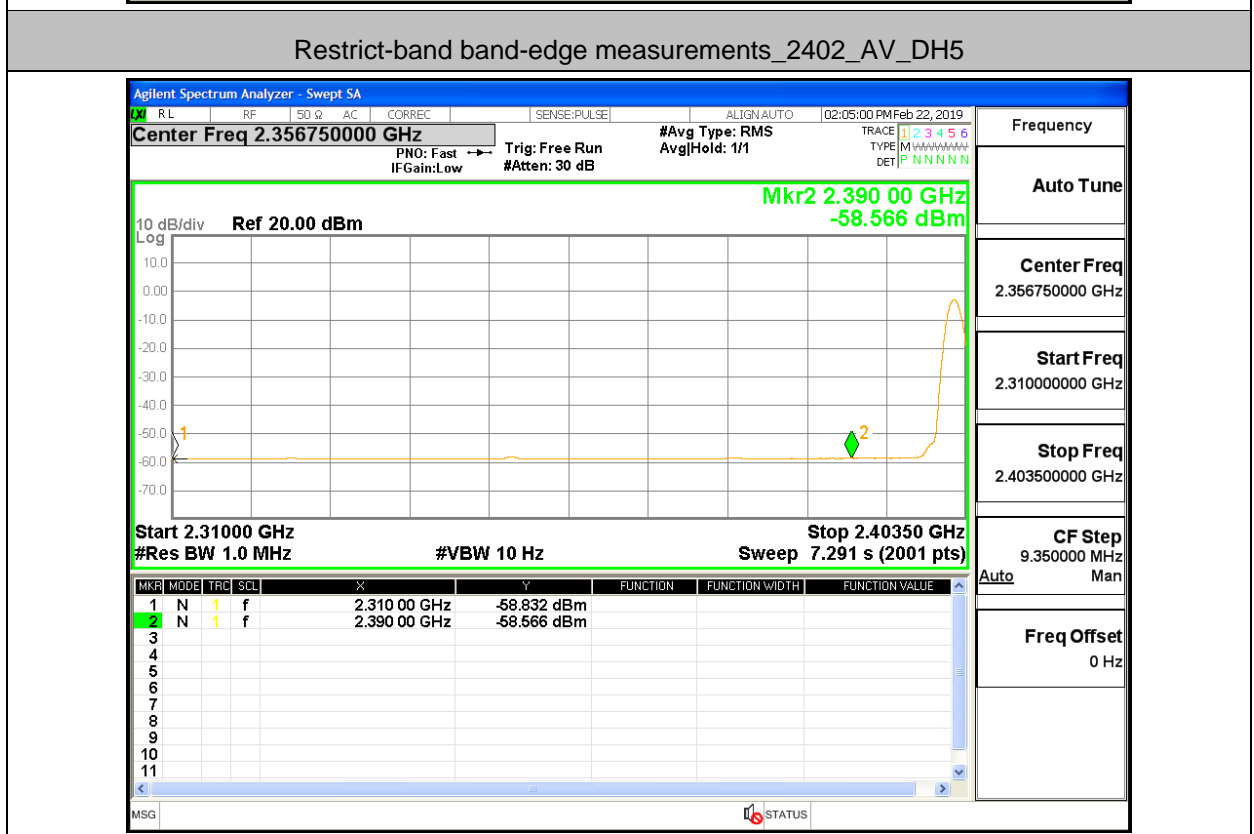
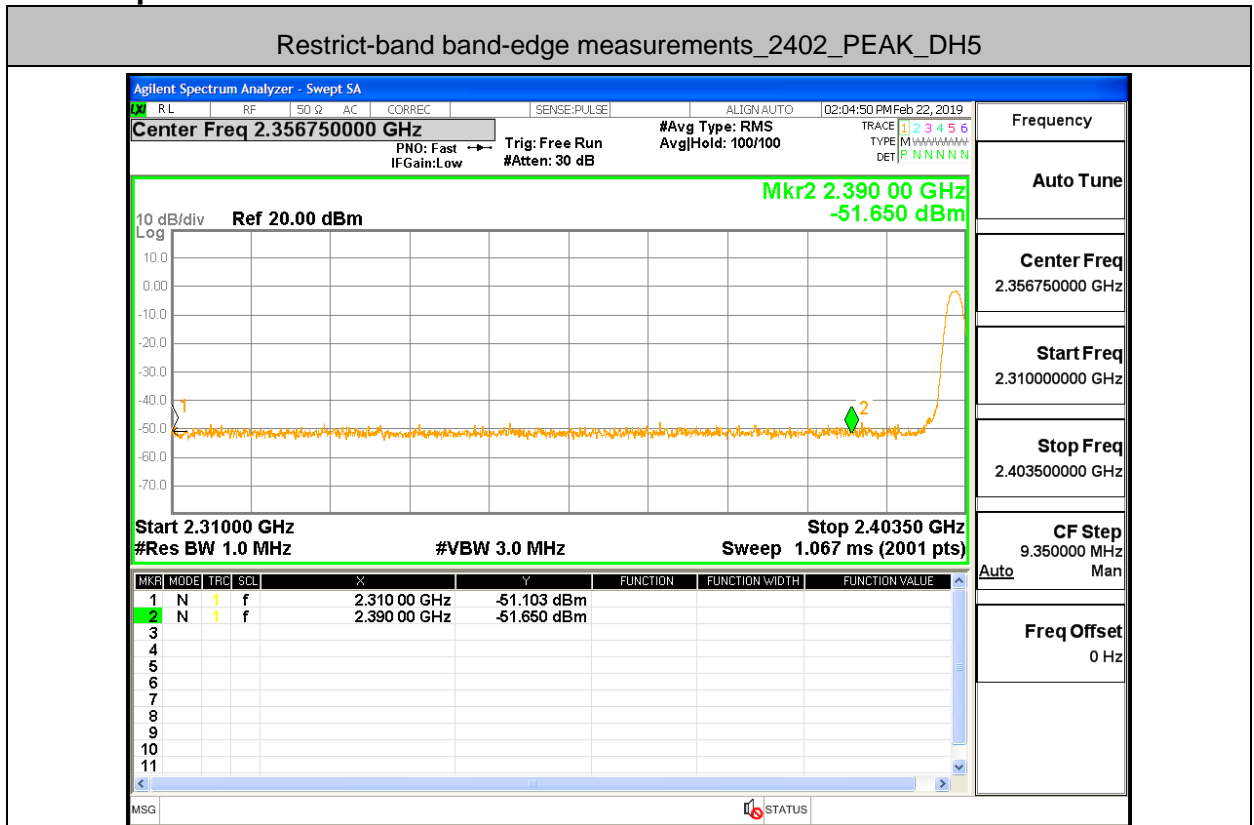




### A.8 Restrict-band measurements

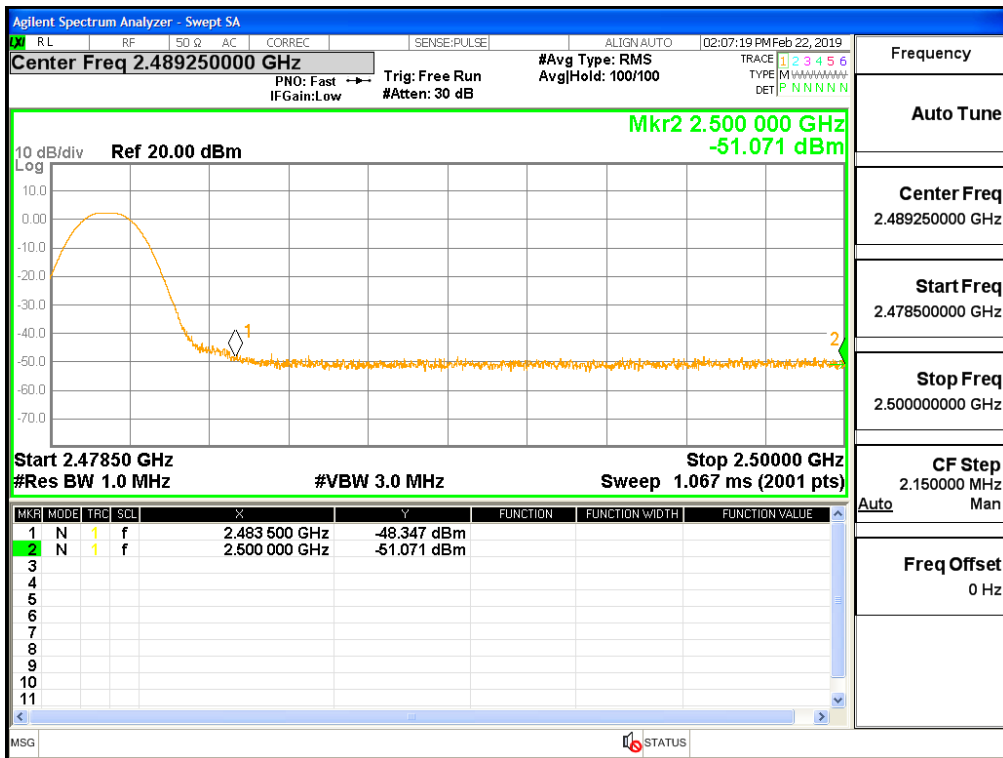
Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2310	2.00	0.00	-51.1	46.1	74	-58.83	38.37	54	Pass
1DH5	2402	2390	2.00	0.00	-51.65	45.55	74	-58.57	38.63	54	Pass
1DH5	2480	2483.5	2.00	0.00	-48.35	48.85	74	-54.3	42.9	54	Pass
1DH5	2480	2500	2.00	0.00	-51.07	46.13	74	-58.03	39.17	54	Pass
2DH5	2402	2310	2.00	0.00	-52.49	44.71	74	-58.85	38.35	54	Pass
2DH5	2402	2390	2.00	0.00	-50.78	46.42	74	-58.59	38.61	54	Pass
2DH5	2480	2483.5	2.00	0.00	-49.95	47.25	74	-55.38	41.82	54	Pass
1DH5	2480	2500	2.00	0.00	-51.03	46.17	74	-58.01	39.19	54	Pass
3DH5	2402	2310	2.00	0.00	-51.64	45.56	74	-58.87	38.33	54	Pass
3DH5	2402	2390	2.00	0.00	-51.76	45.44	74	-58.6	38.6	54	Pass
3DH5	2480	2483.5	2.00	0.00	-50.12	47.08	74	-55.34	41.86	54	Pass
3DH5	2480	2500	2.00	0.00	-50.76	46.44	74	-58	39.2	54	Pass

### Test Graph

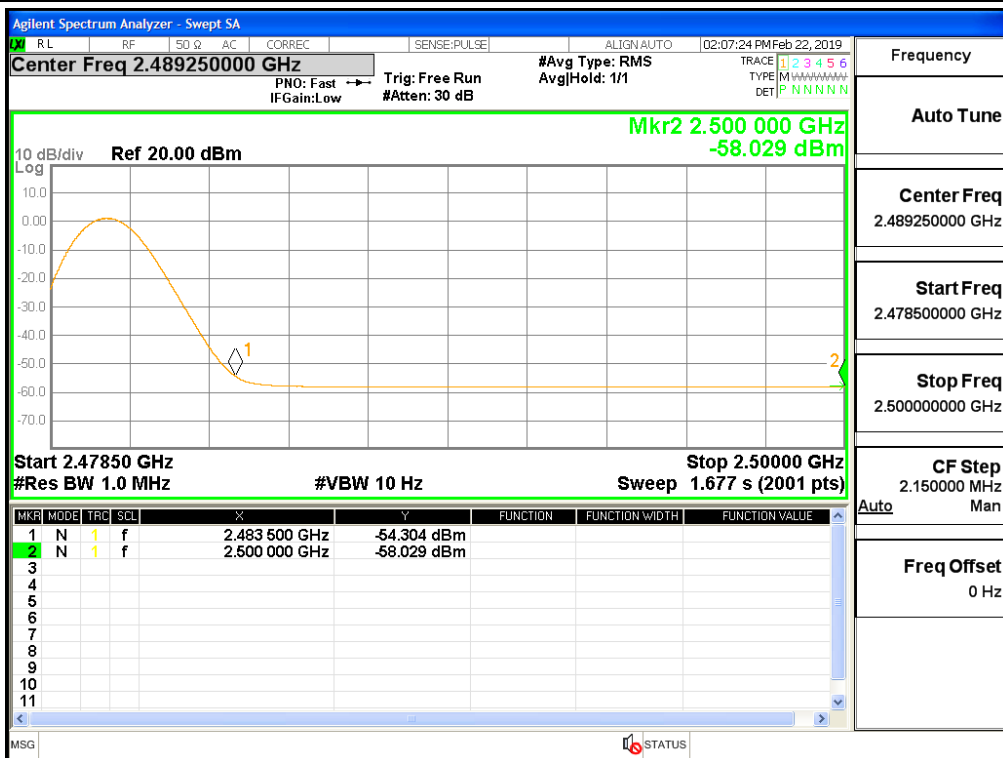




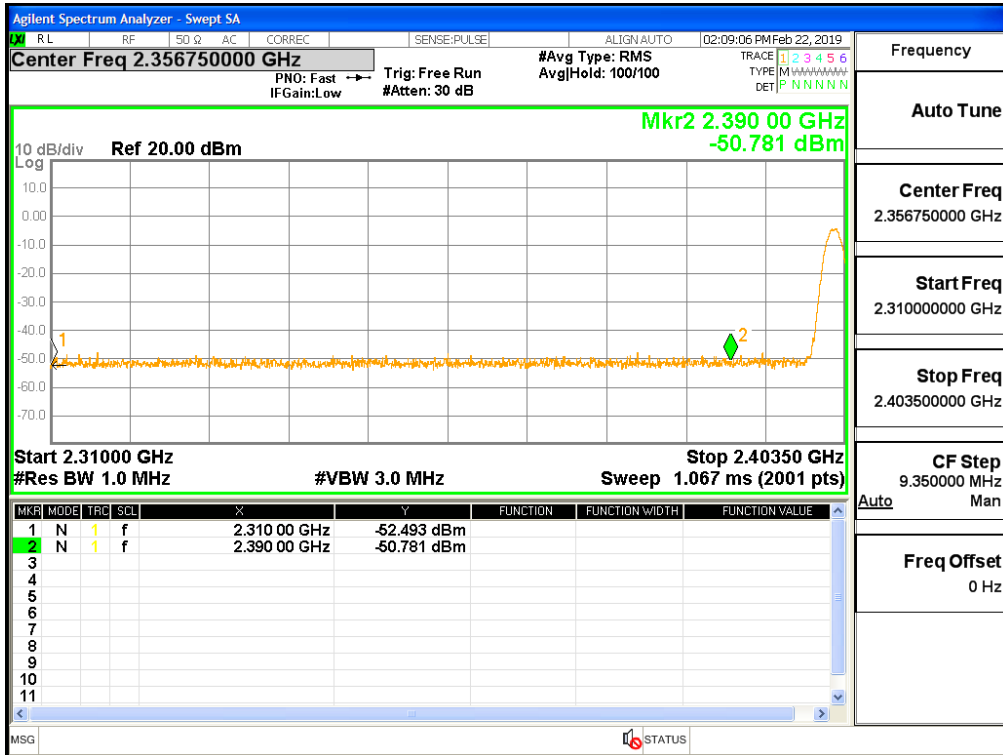
Restrict-band band-edge measurements\_2480\_PEAK\_DH5



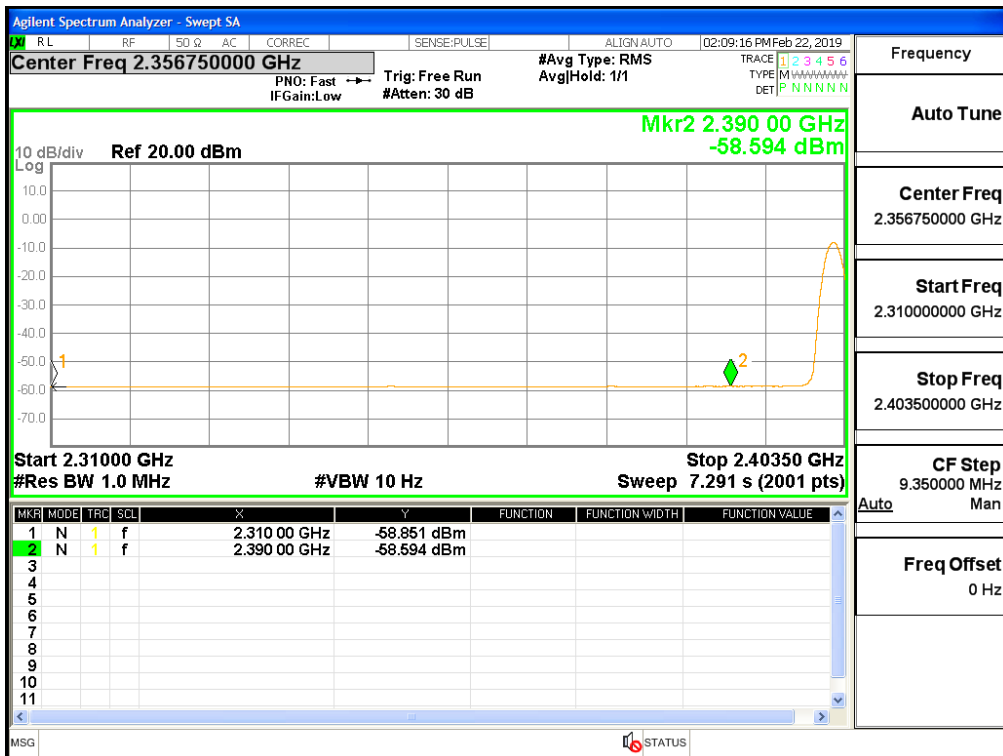
Restrict-band band-edge measurements\_2480\_AV\_DH5



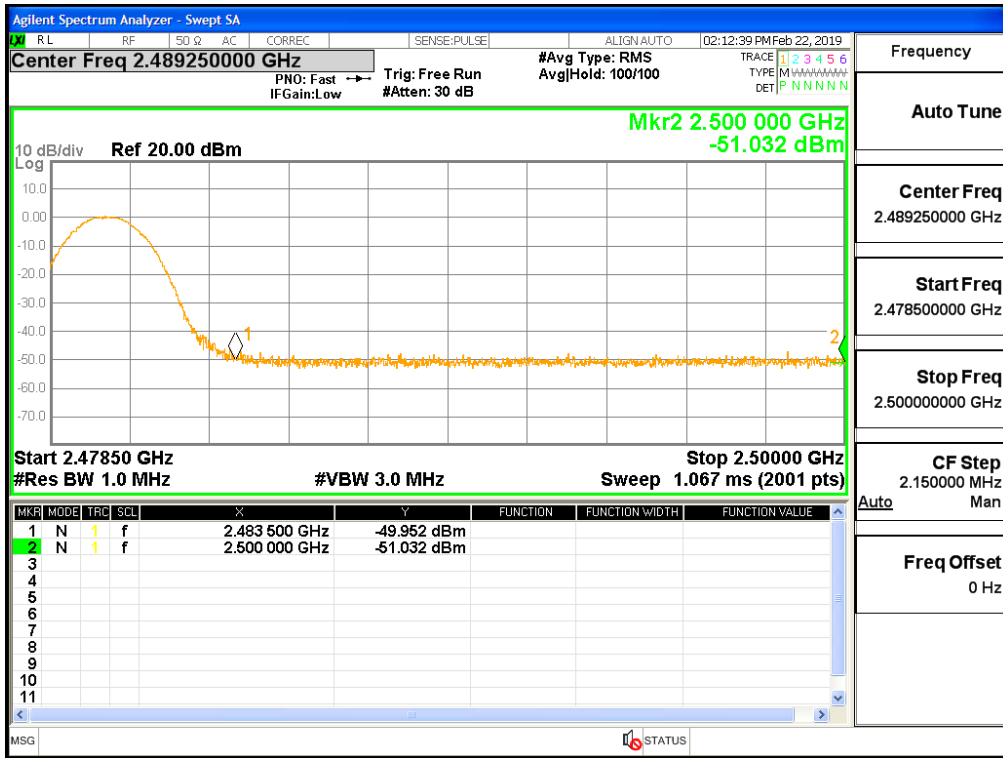
Restrict-band band-edge measurements\_2402\_PEAK\_2DH5



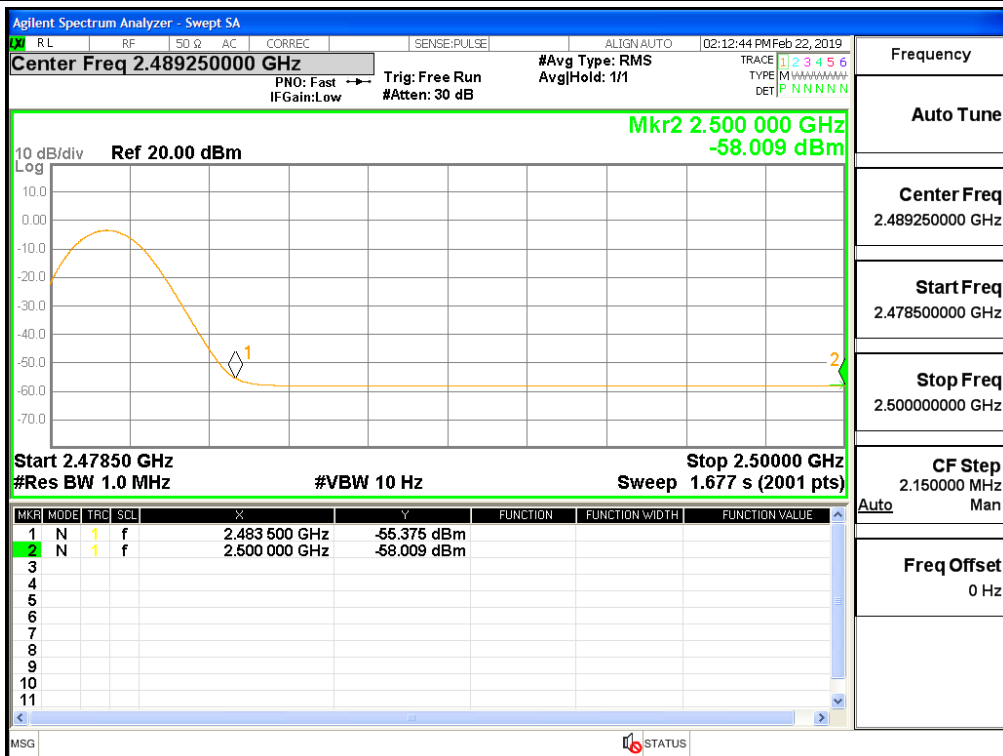
Restrict-band band-edge measurements\_2402\_AV\_2DH5



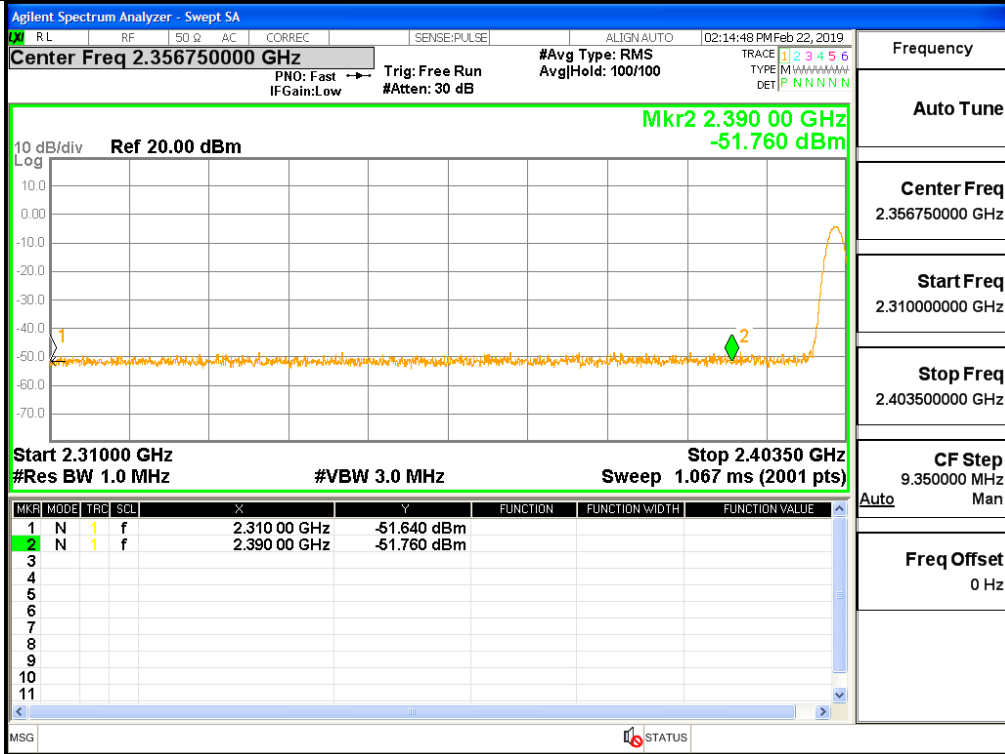
Restrict-band band-edge measurements\_2480\_PEAK\_2DH5



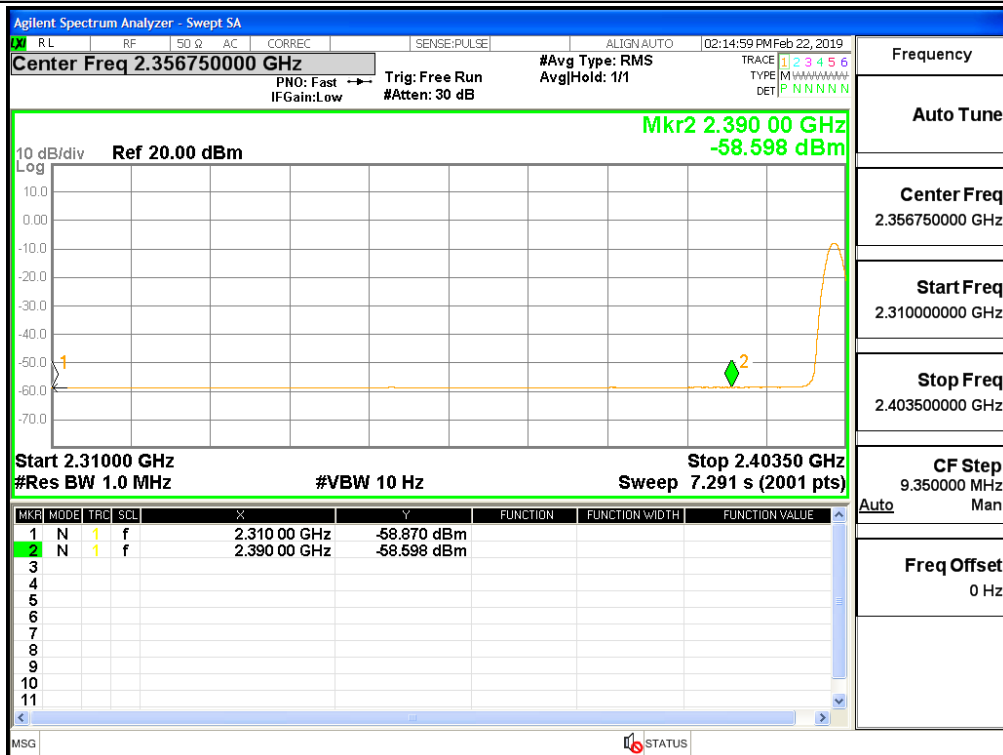
Restrict-band band-edge measurements\_2480\_AV\_2DH5



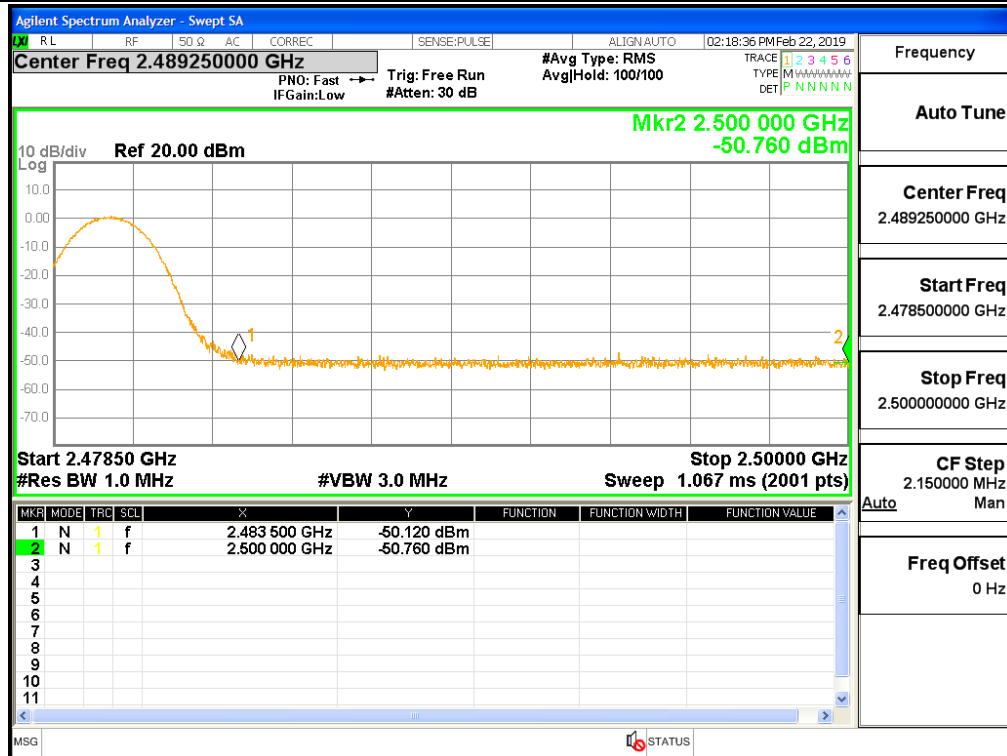
Restrict-band band-edge measurements\_2402\_PEAK\_3DH5



Restrict-band band-edge measurements\_2402\_AV\_3DH5



Restrict-band band-edge measurements\_2480\_PEAK\_3DH5



Restrict-band band-edge measurements\_2480\_AV\_3DH5

