

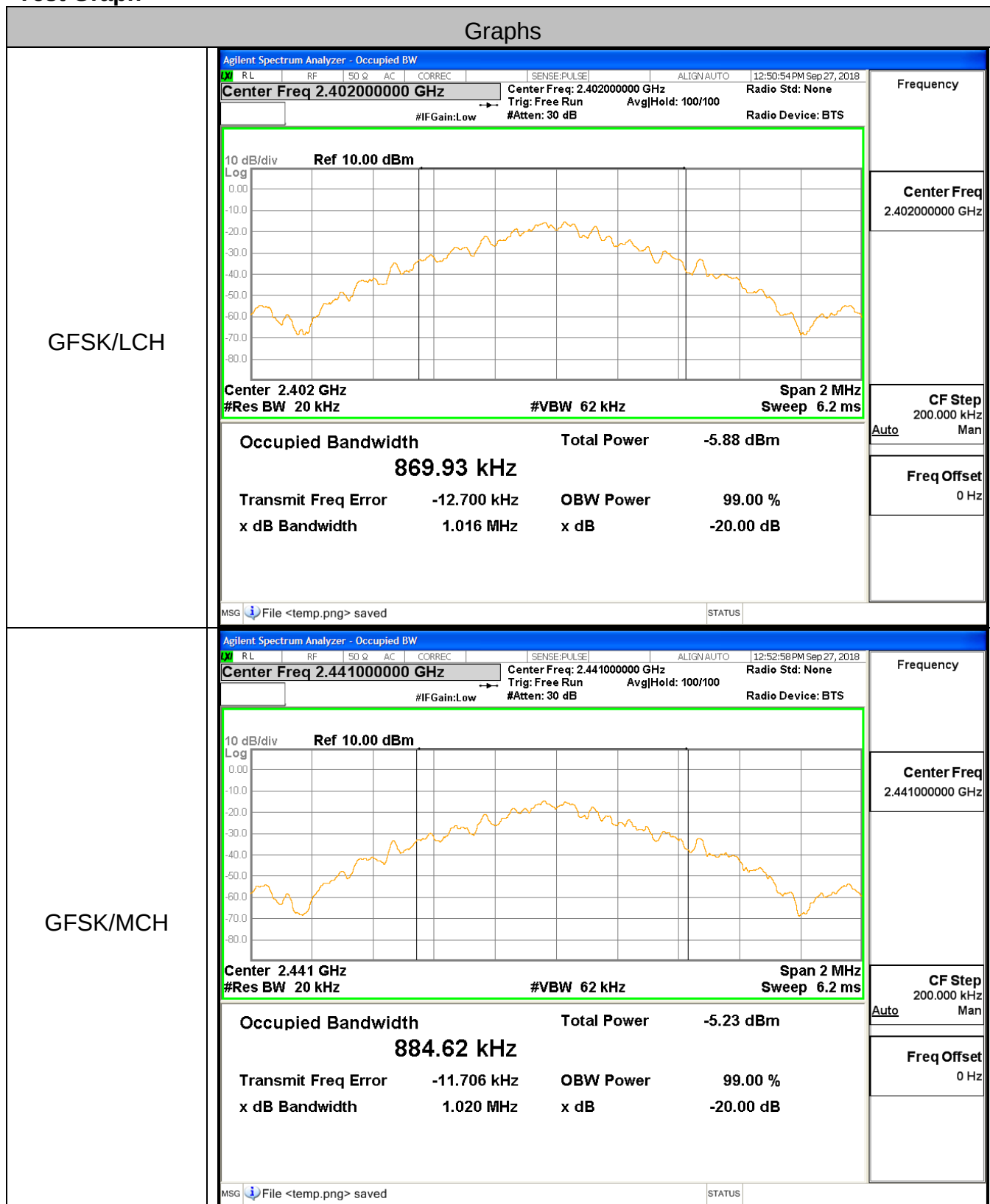
Appendix A**RF Test Data for BT(BDR/EDR) (Conducted Measurement)****Product Name: Shenzhen KingAnda Technology Development Co., Ltd.****Trade Mark: HBQ kinganda****Test Model: Q13s****FCC ID: 2AOZM-Q13S****Environmental Conditions**

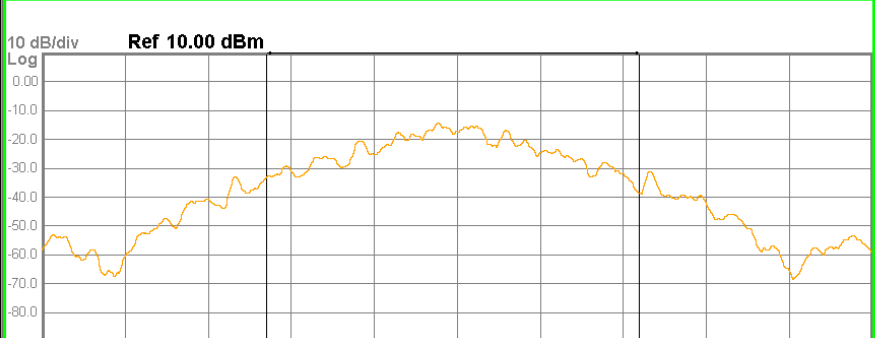
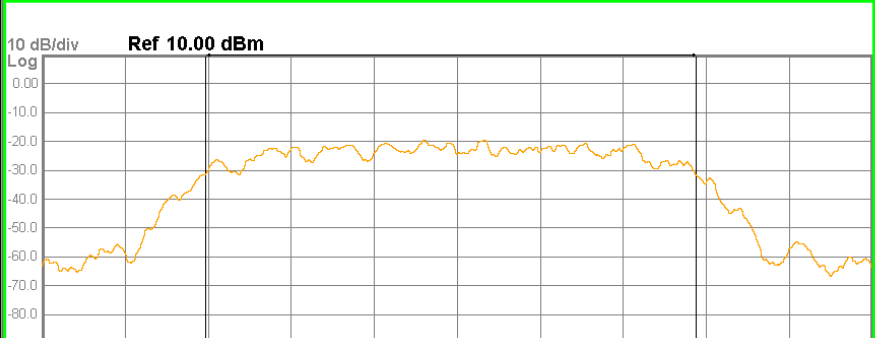
Temperature:	24.2 ° C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

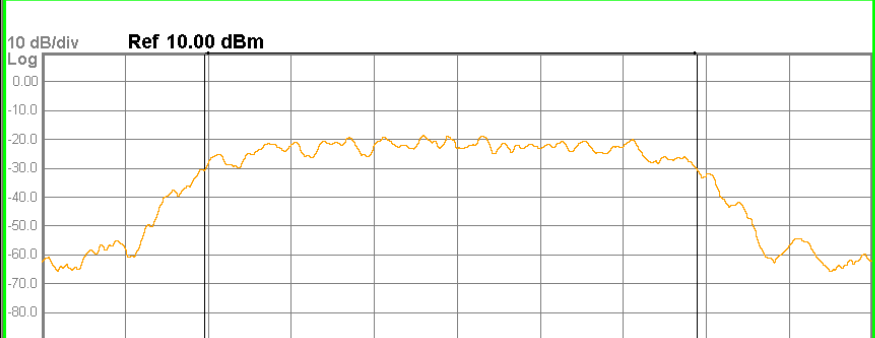
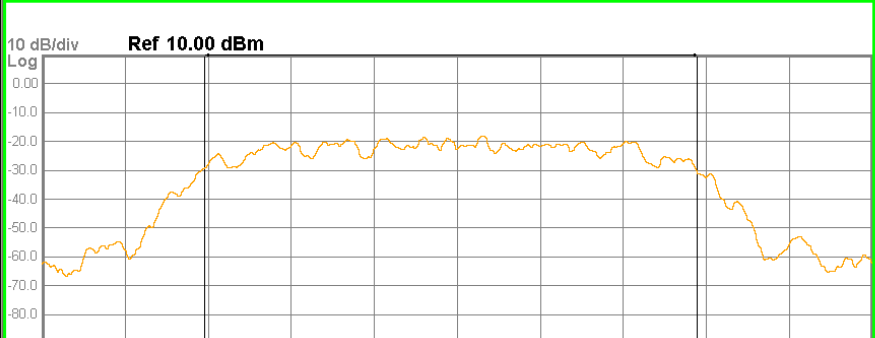
A.1.20 dB Bandwidth

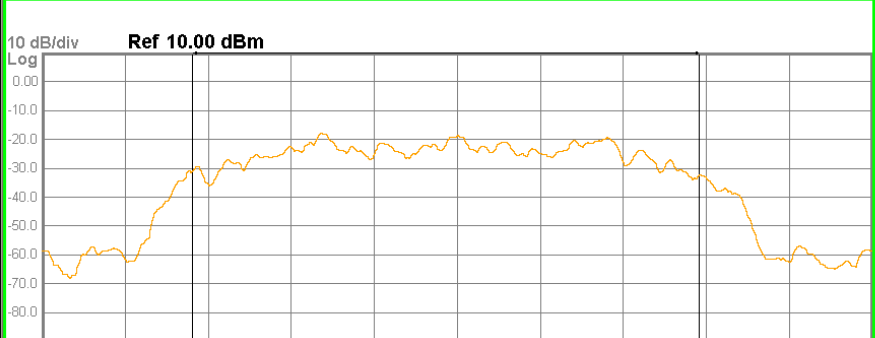
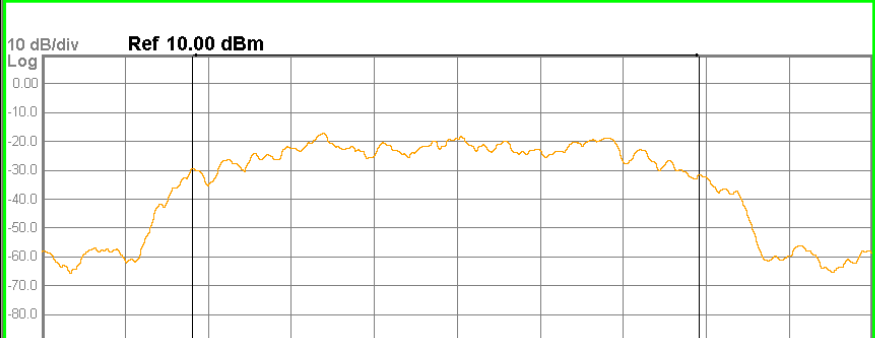
Mode	Channel.	20dB Bandwidth [MHz]	Limit(MHz)	Verdict
GFSK	LCH	1.016	Not Specified	PASS
GFSK	MCH	1.020	Not Specified	PASS
GFSK	HCH	1.019	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.320	Not Specified	PASS
$\pi/4$ DQPSK	MCH	1.322	Not Specified	PASS
$\pi/4$ DQPSK	HCH	1.322	Not Specified	PASS
8DPSK	LCH	1.336	Not Specified	PASS
8DPSK	MCH	1.339	Not Specified	PASS
8DPSK	HCH	1.335	Not Specified	PASS

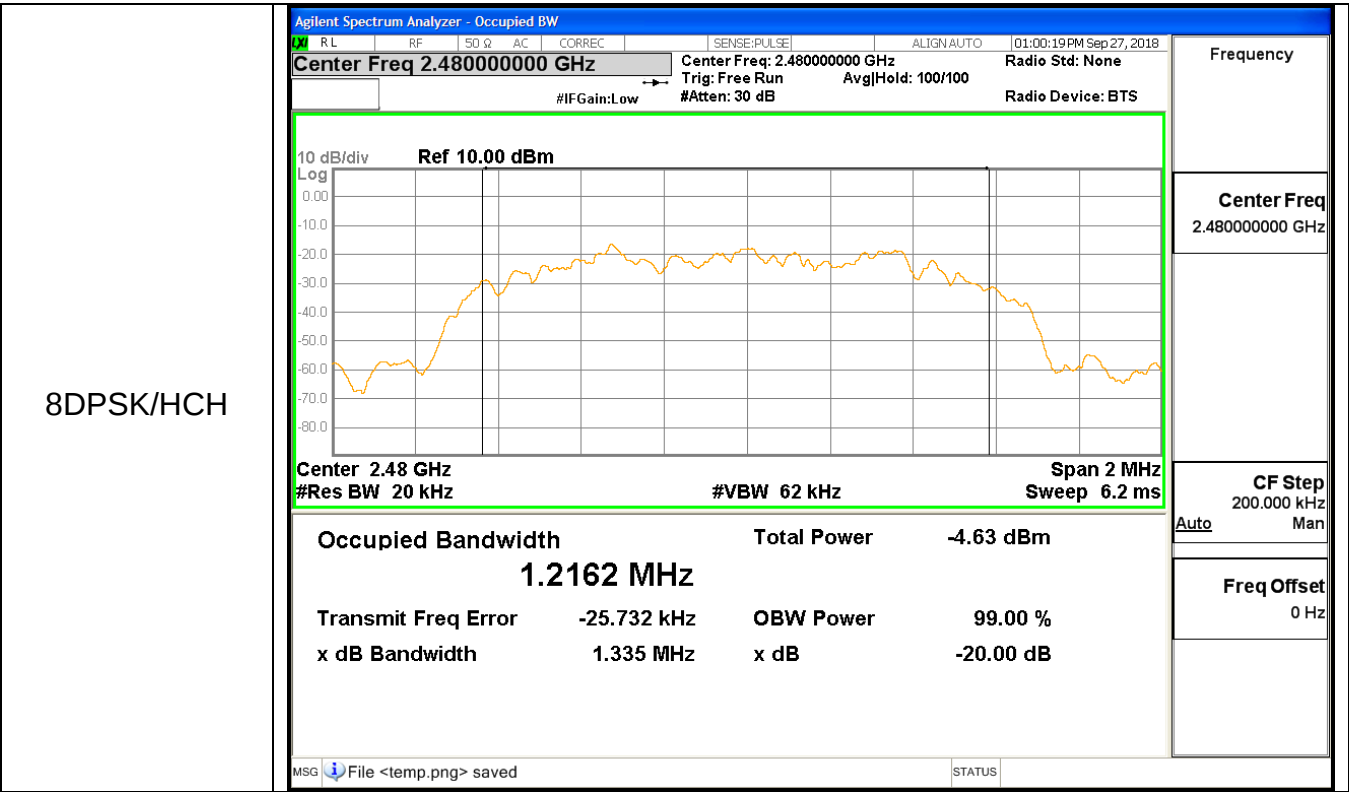
Test Graph



GFSK/HCH	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz #IFGain:Low Center Freq: 2.480000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None AvgHld: 100/100 Radio Device: BTS 10 dB/div Ref 10.00 dBm  Center 2.48 GHz #Res BW 20 kHz #VBW 62 kHz Span 2 MHz Sweep 6.2 ms Occupied Bandwidth 895.31 kHz Total Power -4.93 dBm Transmit Freq Error -8.919 kHz OBW Power 99.00 % x dB Bandwidth 1.019 MHz x dB -20.00 dB MSG File <temp.png> saved STATUS Frequency Center Freq 2.480000000 GHz CF Step 200.000 kHz Man Auto Freq Offset 0 Hz
π/4DQPSK/LCH	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.402000000 GHz #IFGain:Low Center Freq: 2.402000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None AvgHld: 100/100 Radio Device: BTS 10 dB/div Ref 10.00 dBm  Center 2.402 GHz #Res BW 20 kHz #VBW 62 kHz Span 2 MHz Sweep 6.2 ms Occupied Bandwidth 1.1806 MHz Total Power -5.93 dBm Transmit Freq Error -15.580 kHz OBW Power 99.00 % x dB Bandwidth 1.320 MHz x dB -20.00 dB MSG File <temp.png> saved STATUS Frequency Center Freq 2.402000000 GHz CF Step 200.000 kHz Man Auto Freq Offset 0 Hz

π/4DQPSK/MCH	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.441000000 GHz Center Freq: 2.441000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB ALIGN AUTO 12:56:10 PM Sep 27, 2018 Radio Std: None Radio Device: BTS 10 dB/div Ref 10.00 dBm  Center 2.441 GHz #Res BW 20 kHz #VBW 62 kHz Span 2 MHz Sweep 6.2 ms Occupied Bandwidth 1.1859 MHz Total Power -5.15 dBm Transmit Freq Error -15.258 kHz OBW Power 99.00 % x dB Bandwidth 1.322 MHz x dB -20.00 dB MSG File <temp.png> saved STATUS Frequency Center Freq 2.441000000 GHz CF Step 200.000 kHz Man Auto Freq Offset 0 Hz
π/4DQPSK/HCH	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB ALIGN AUTO 12:57:24 PM Sep 27, 2018 Radio Std: None Radio Device: BTS 10 dB/div Ref 10.00 dBm  Center 2.48 GHz #Res BW 20 kHz #VBW 62 kHz Span 2 MHz Sweep 6.2 ms Occupied Bandwidth 1.1873 MHz Total Power -4.67 dBm Transmit Freq Error -15.494 kHz OBW Power 99.00 % x dB Bandwidth 1.322 MHz x dB -20.00 dB MSG File <temp.png> saved STATUS Frequency Center Freq 2.480000000 GHz CF Step 200.000 kHz Man Auto Freq Offset 0 Hz

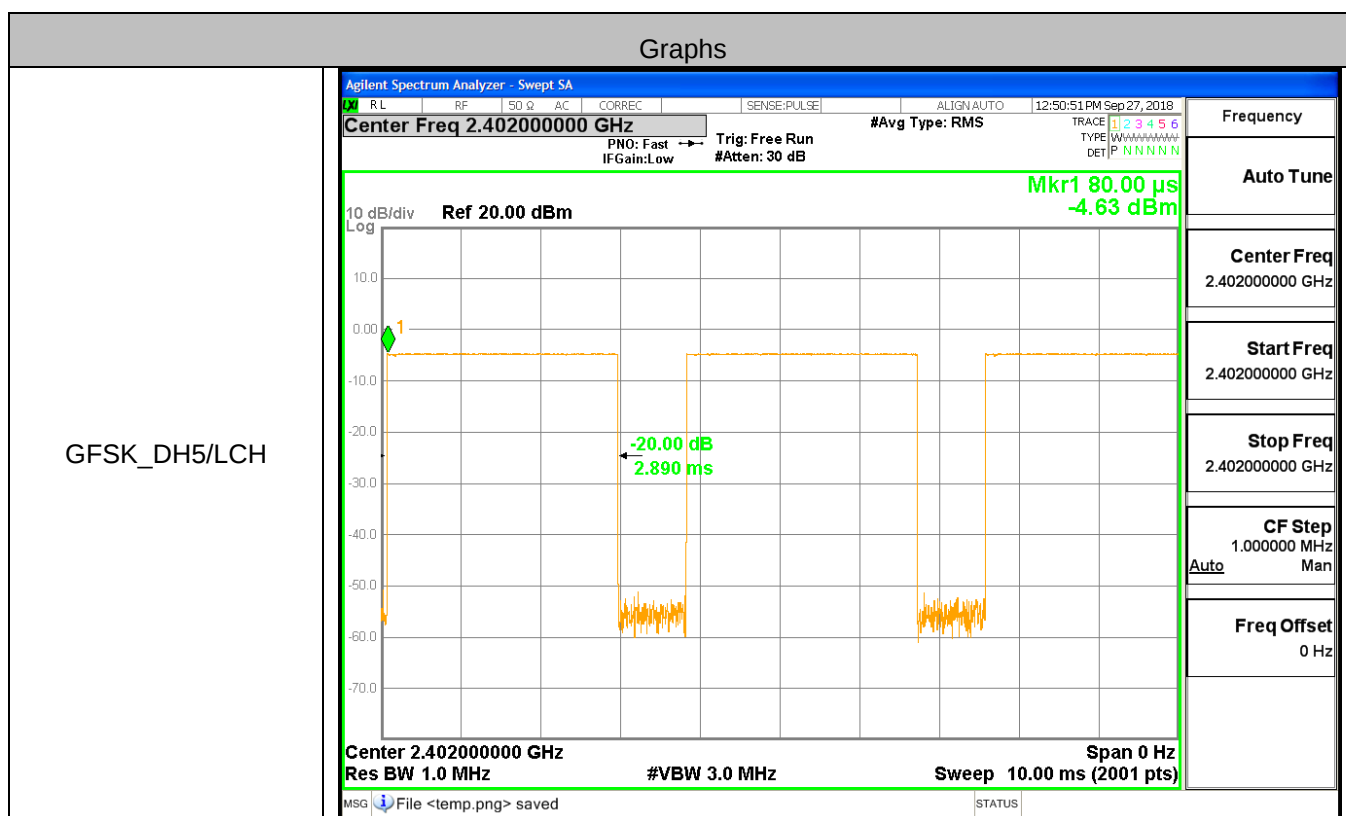
8DPSK/LCH	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB ALIGN AUTO 12:58:23 PM Sep 27, 2018 Radio Std: None Radio Device: BTS 10 dB/div Ref 10.00 dBm  Center 2.402 GHz #Res BW 20 kHz #VBW 62 kHz Span 2 MHz Sweep 6.2 ms Occupied Bandwidth 1.2170 MHz Total Power -5.88 dBm Transmit Freq Error -26.215 kHz OBW Power 99.00 % x dB Bandwidth 1.336 MHz x dB -20.00 dB MSG File <temp.png> saved STATUS Frequency Center Freq 2.402000000 GHz CF Step 200.000 kHz Man Auto Freq Offset 0 Hz
8DPSK/MCH	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.441000000 GHz Center Freq: 2.441000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB ALIGN AUTO 12:59:31 PM Sep 27, 2018 Radio Std: None Radio Device: BTS 10 dB/div Ref 10.00 dBm  Center 2.441 GHz #Res BW 20 kHz #VBW 62 kHz Span 2 MHz Sweep 6.2 ms Occupied Bandwidth 1.2138 MHz Total Power -5.04 dBm Transmit Freq Error -25.754 kHz OBW Power 99.00 % x dB Bandwidth 1.339 MHz x dB -20.00 dB MSG File <temp.png> saved STATUS Frequency Center Freq 2.441000000 GHz CF Step 200.000 kHz Man Auto Freq Offset 0 Hz

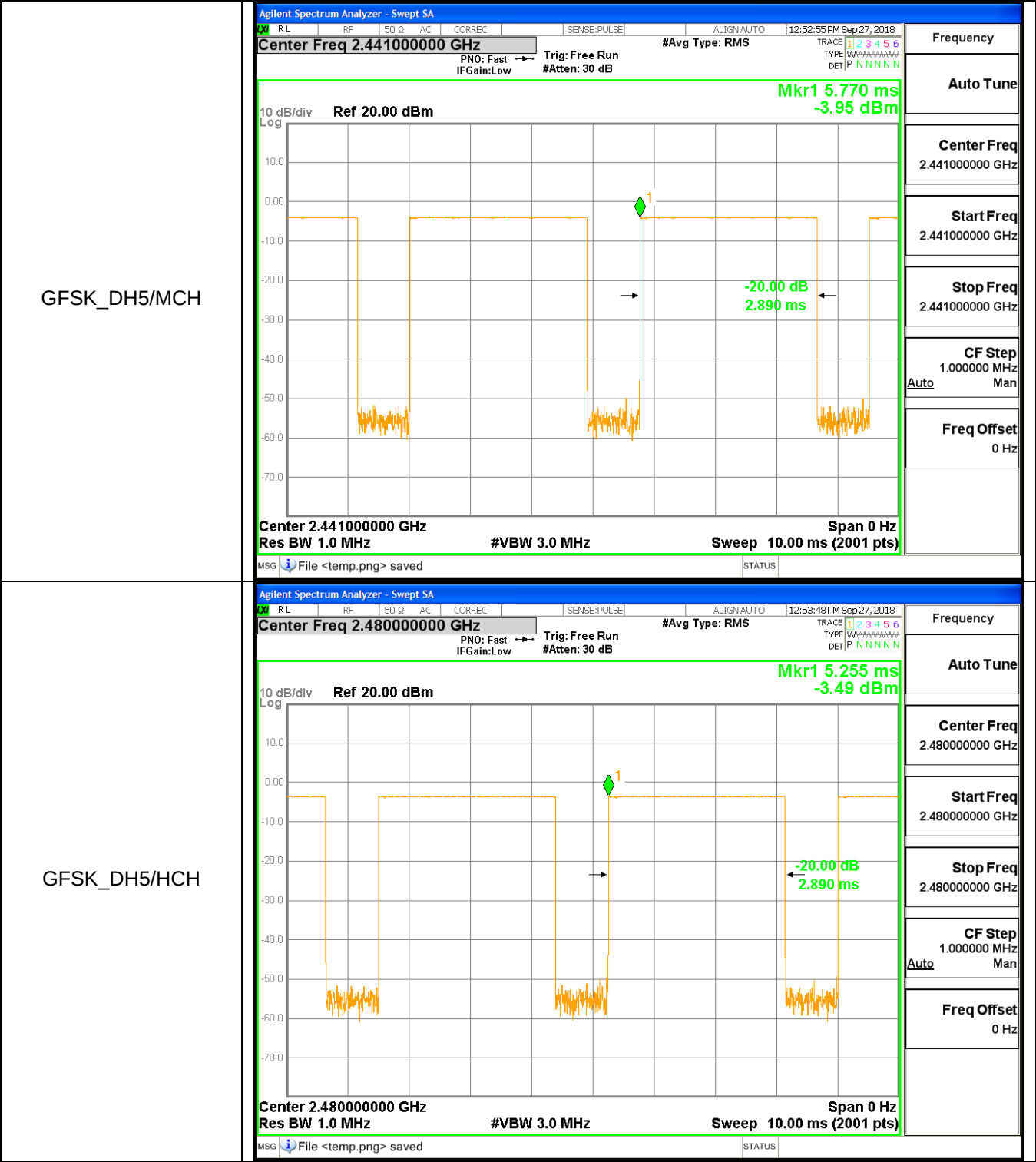


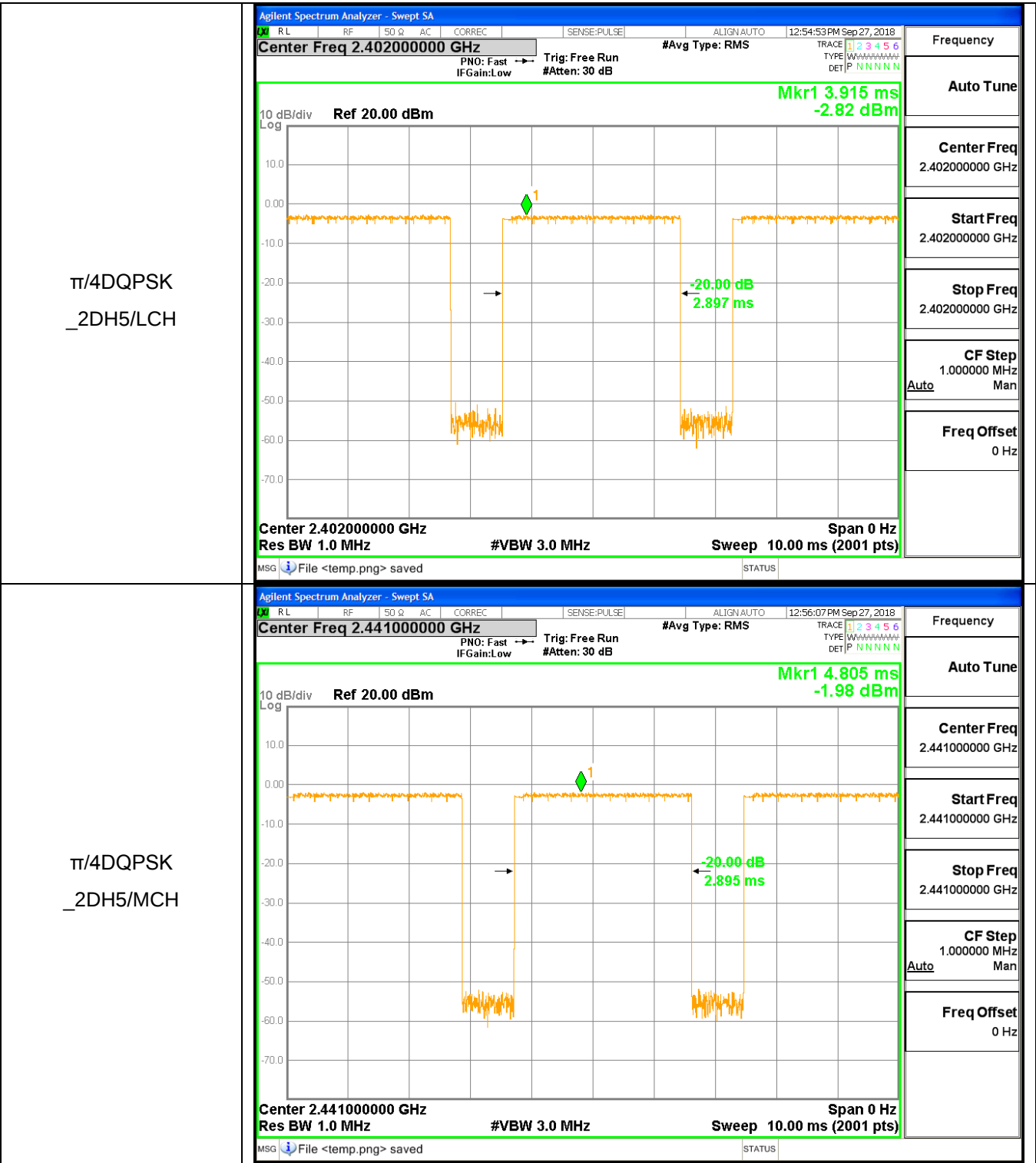
A.2. Dwell Time

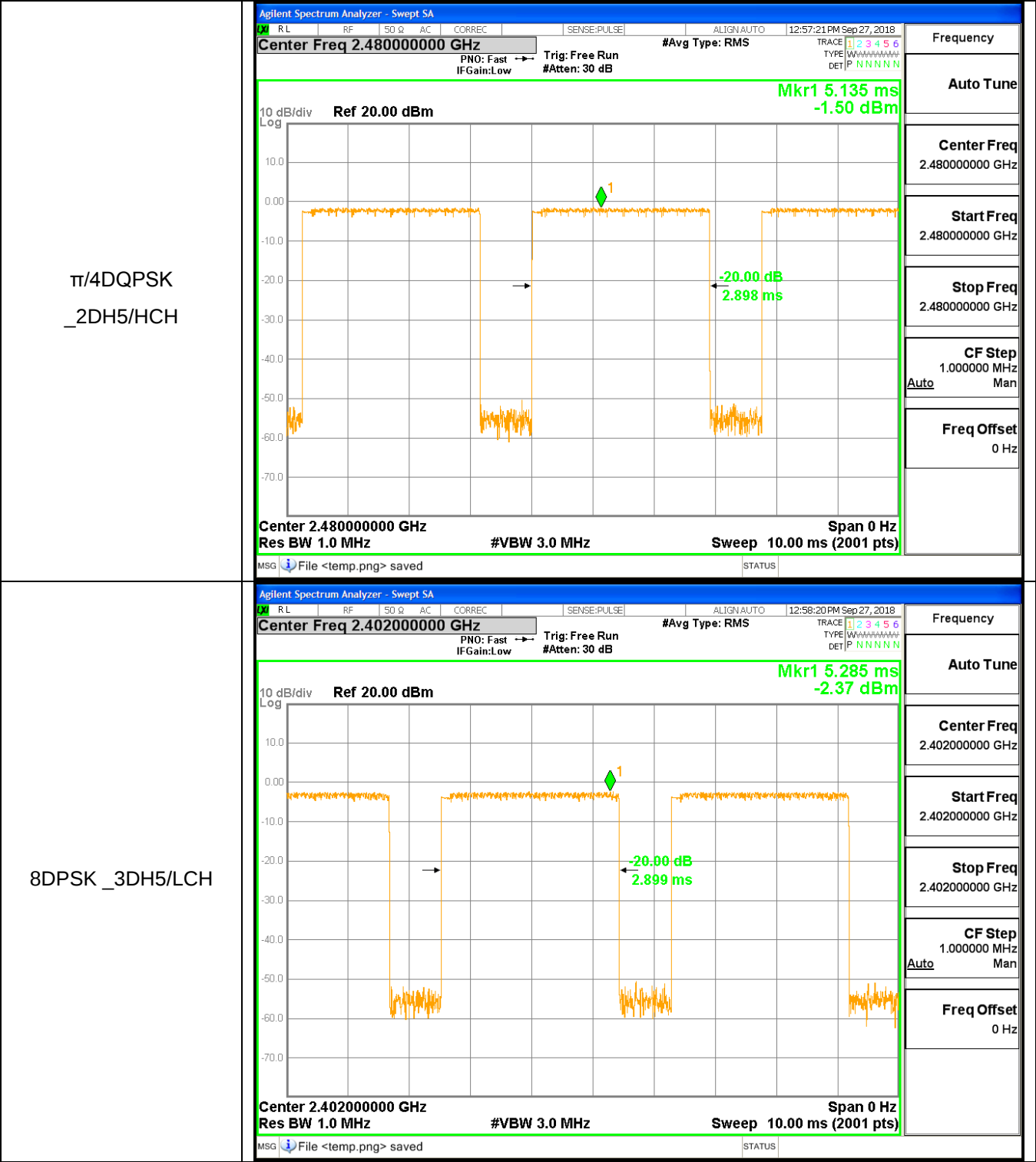
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.890	106.7	0.308	0.4	PASS
GFSK	DH5	MCH	2.890	106.7	0.308	0.4	PASS
GFSK	DH5	HCH	2.890	106.7	0.308	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.897	106.7	0.309	0.4	PASS
$\pi/4$ DQPSK	2DH5	MCH	2.895	106.7	0.309	0.4	PASS
$\pi/4$ DQPSK	2DH5	HCH	2.898	106.7	0.309	0.4	PASS
8DPSK	3DH5	LCH	2.899	106.7	0.309	0.4	PASS
8DPSK	3DH5	MCH	2.900	106.7	0.309	0.4	PASS
8DPSK	3DH5	HCH	2.898	106.7	0.309	0.4	PASS

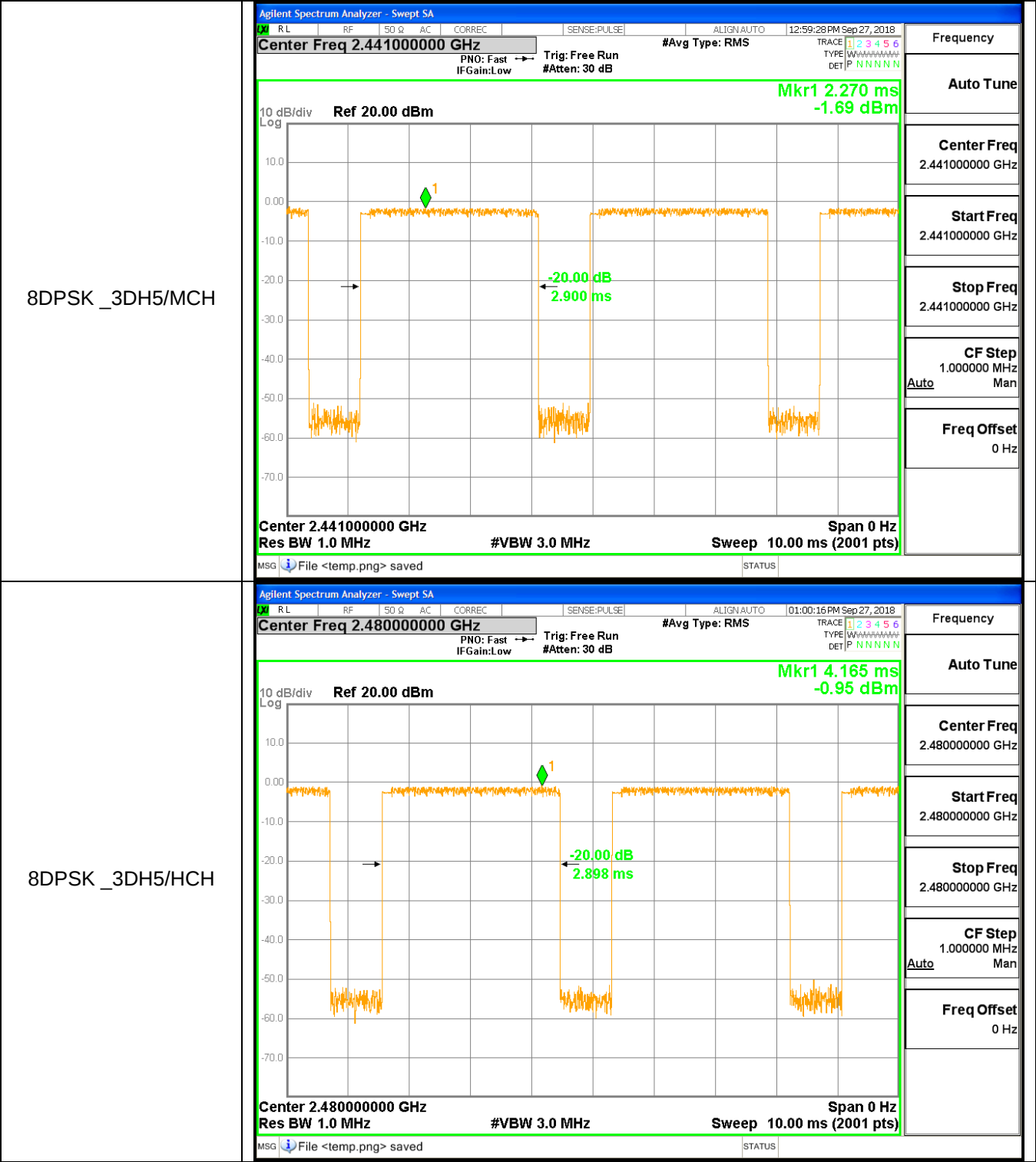
Test Graph







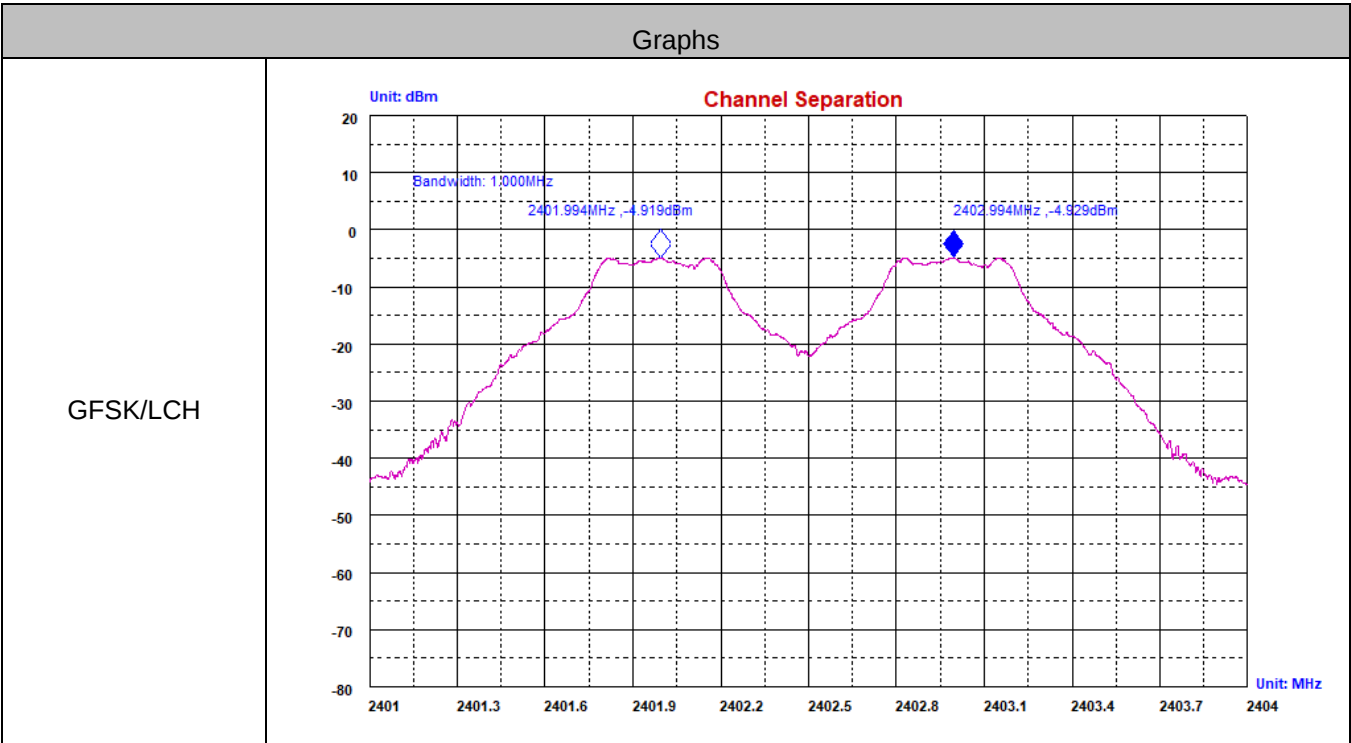


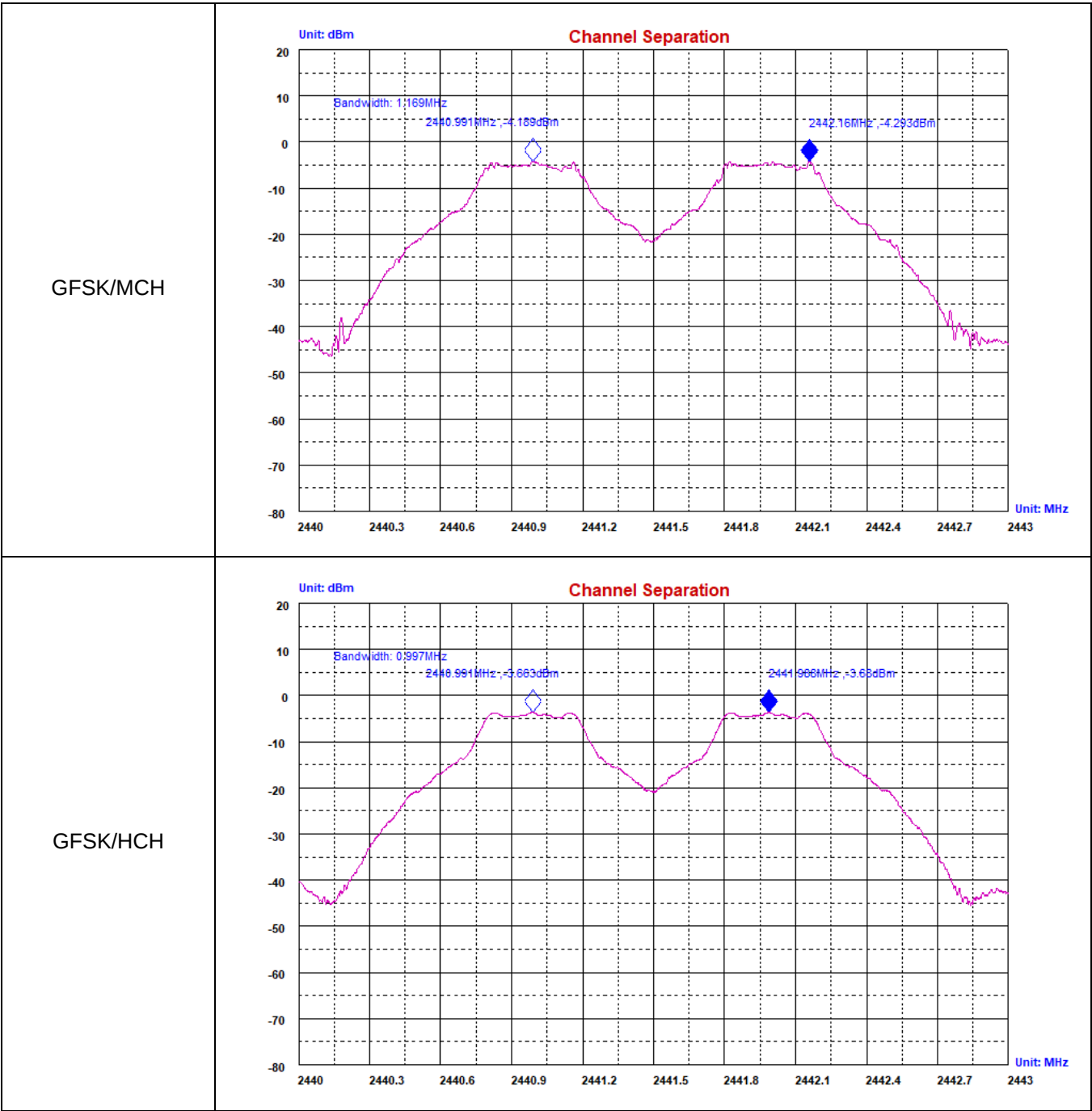


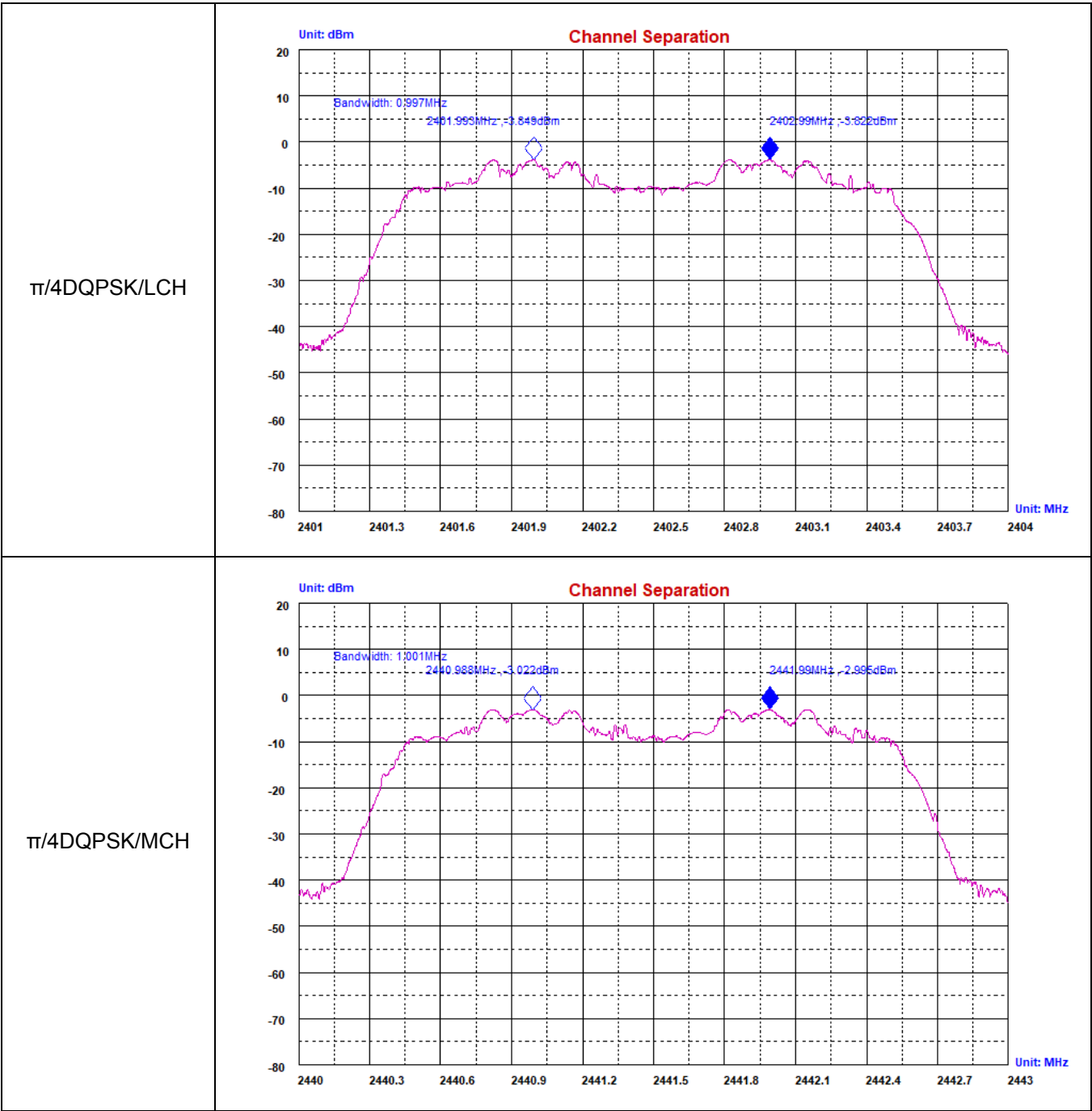
A.3. Carrier Frequency Separation

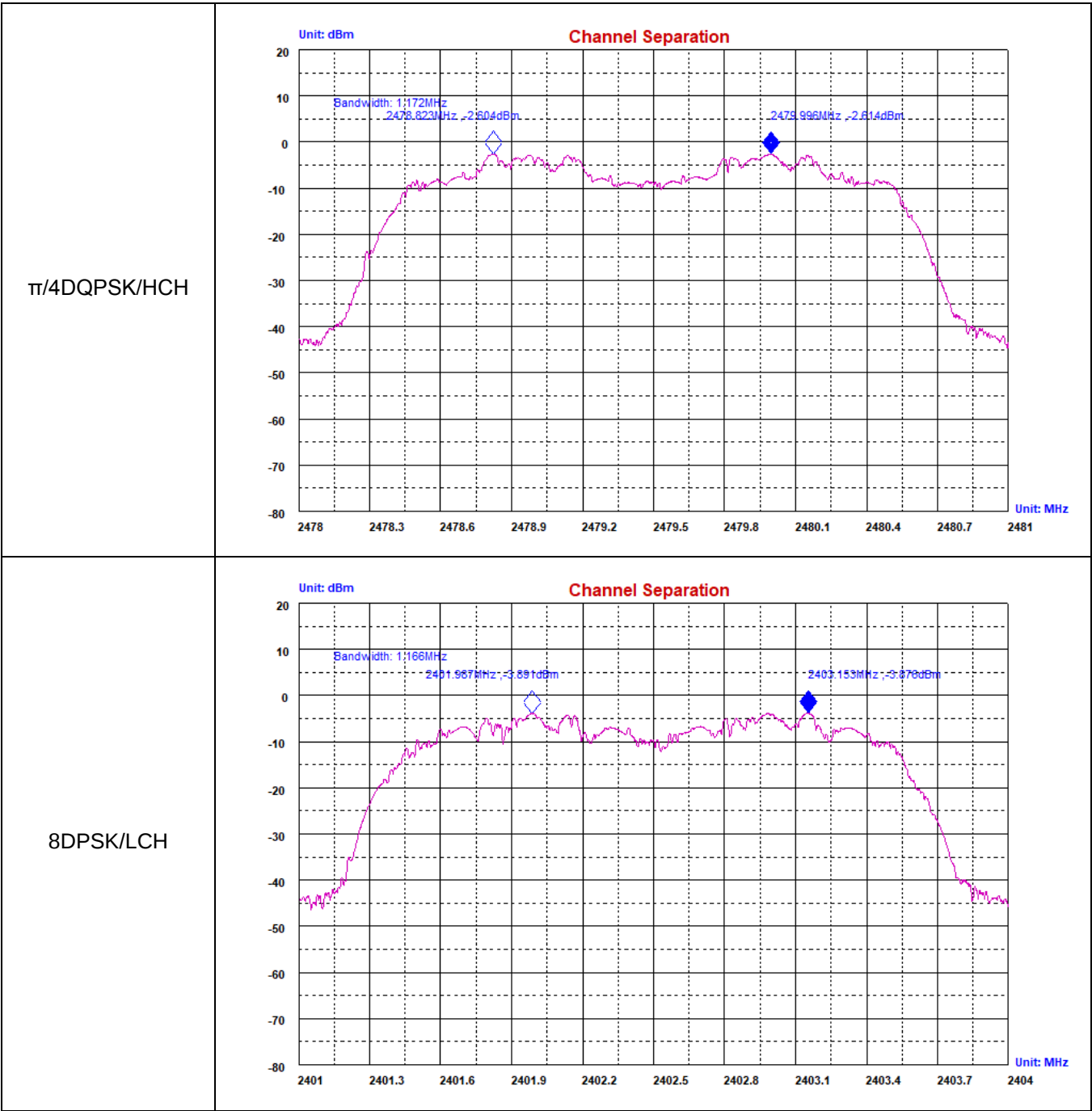
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.000	0.677	PASS
GFSK	MCH	1.169	0.680	PASS
GFSK	HCH	0.997	0.679	PASS
π /4DQPSK	LCH	0.997	0.880	PASS
π /4DQPSK	MCH	1.001	0.881	PASS
π /4DQPSK	HCH	1.172	0.881	PASS
8DPSK	LCH	1.166	0.891	PASS
8DPSK	MCH	0.996	0.893	PASS
8DPSK	HCH	0.999	0.890	PASS

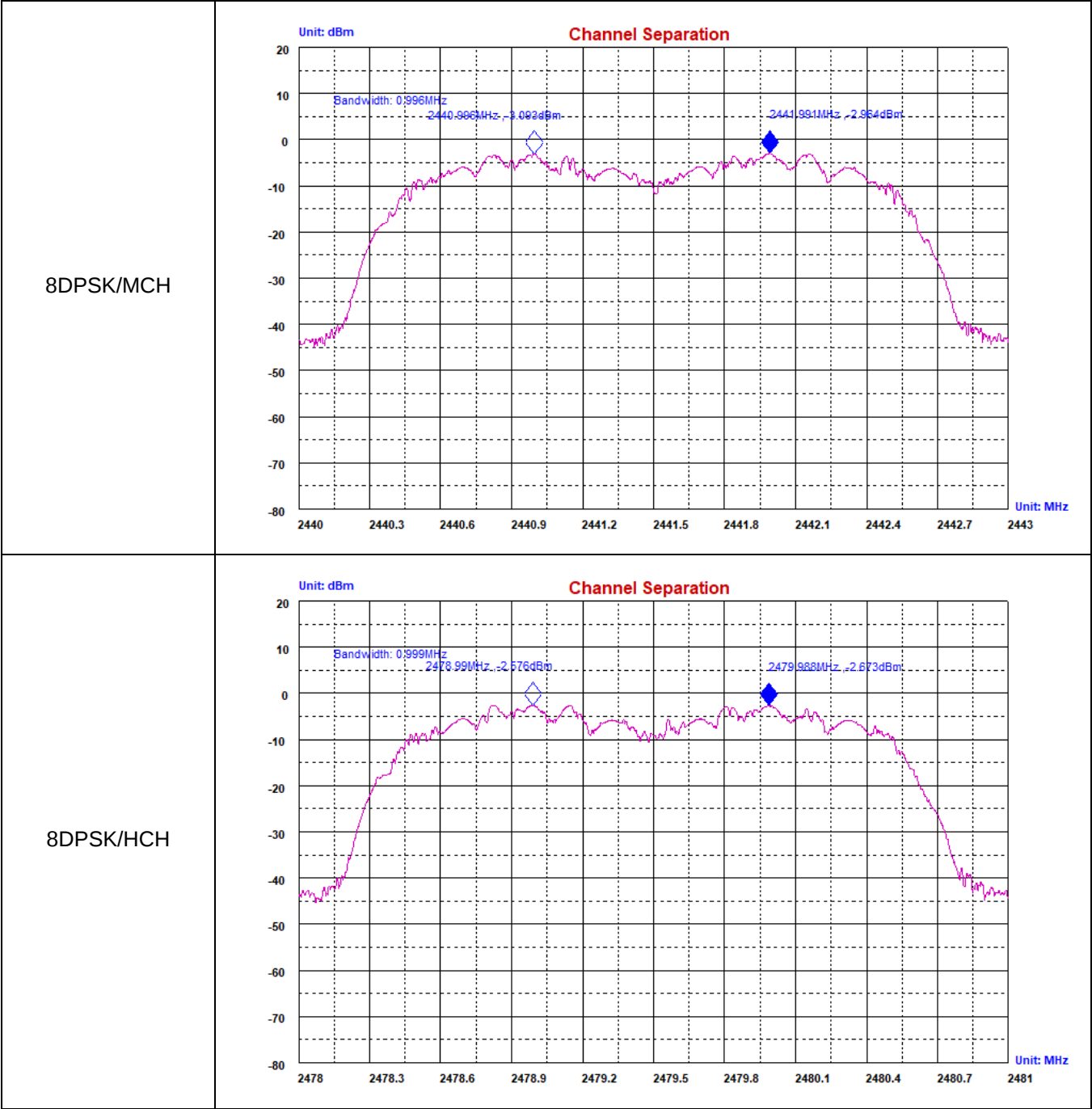
Test Graph







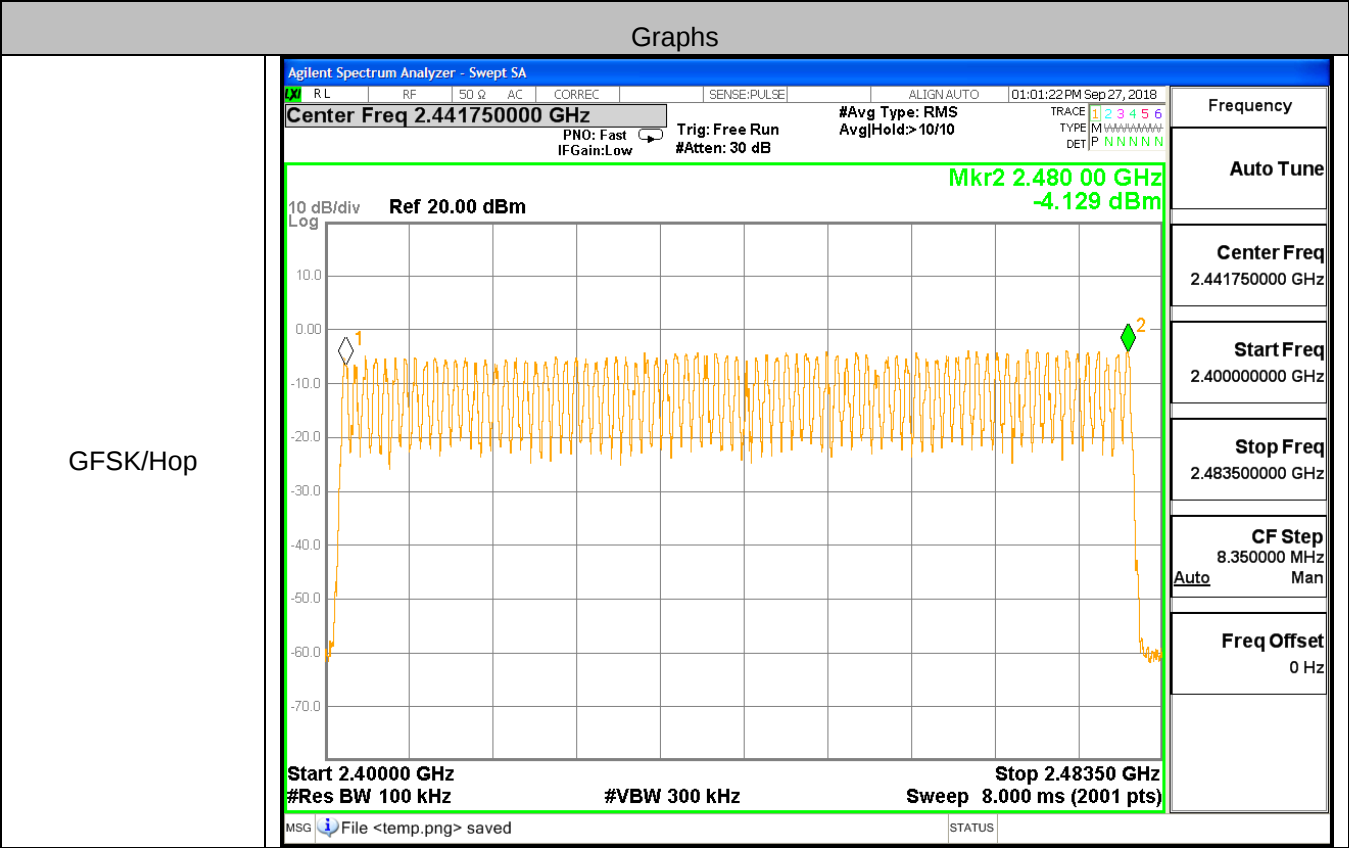


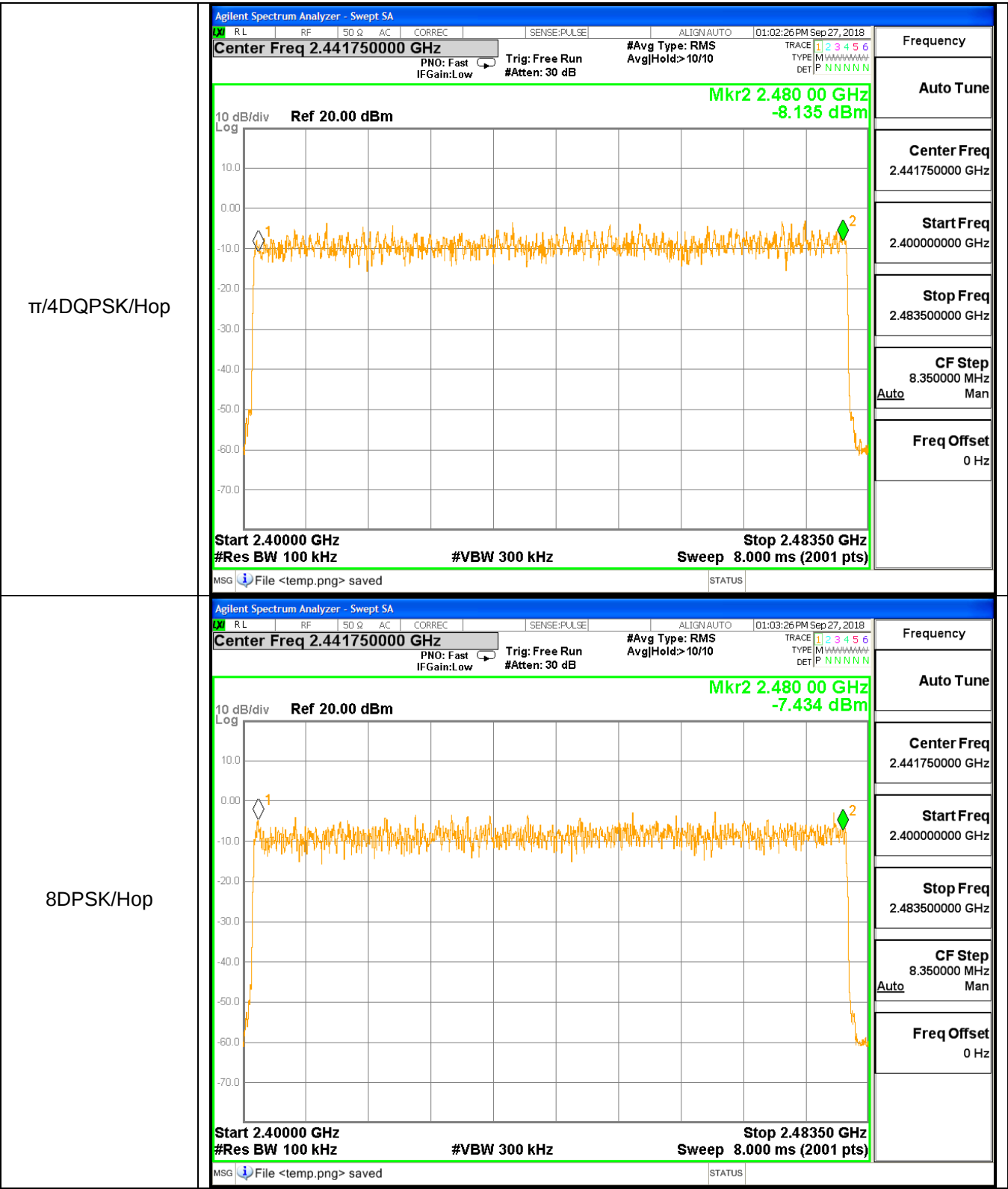


A.4. Hopping Channel Number

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

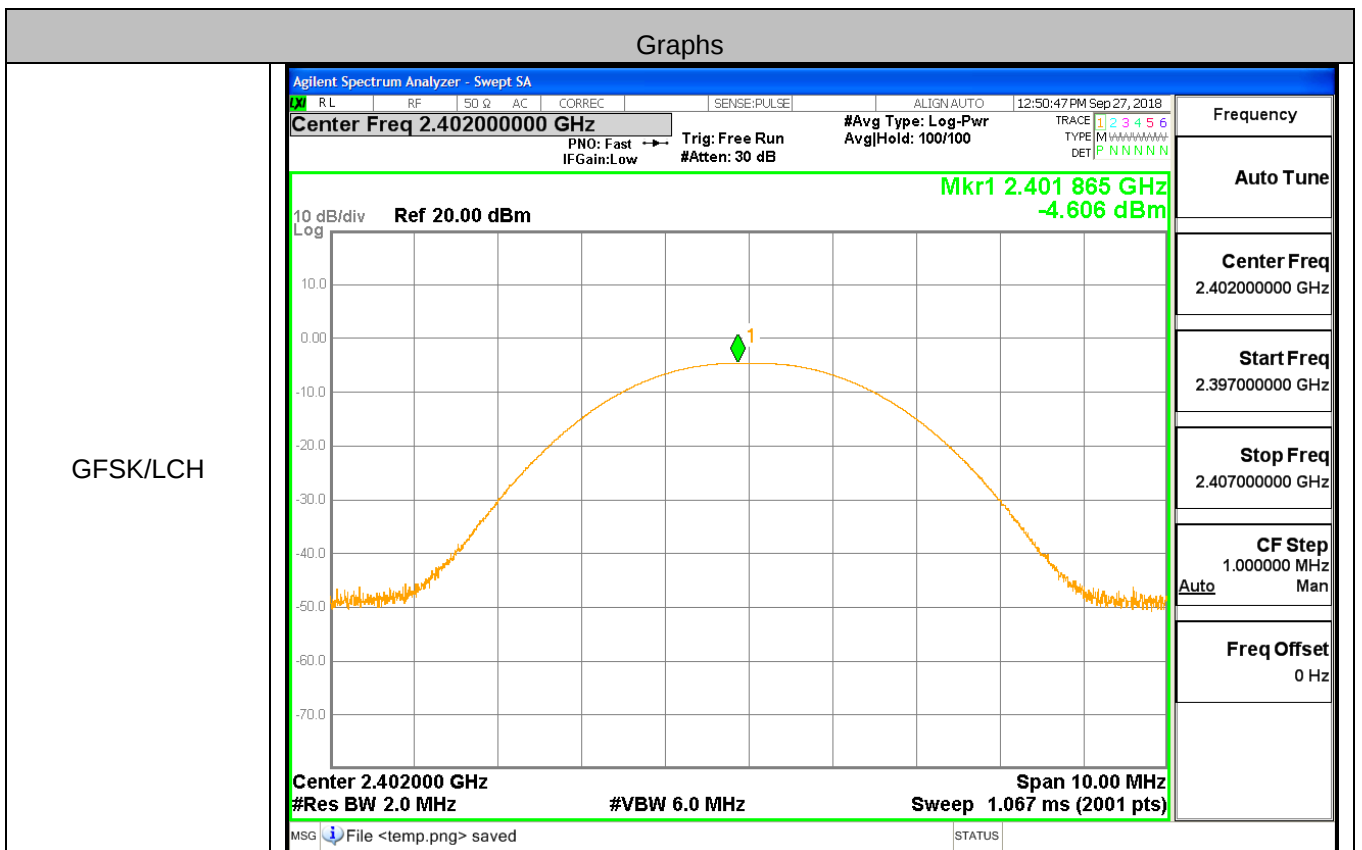


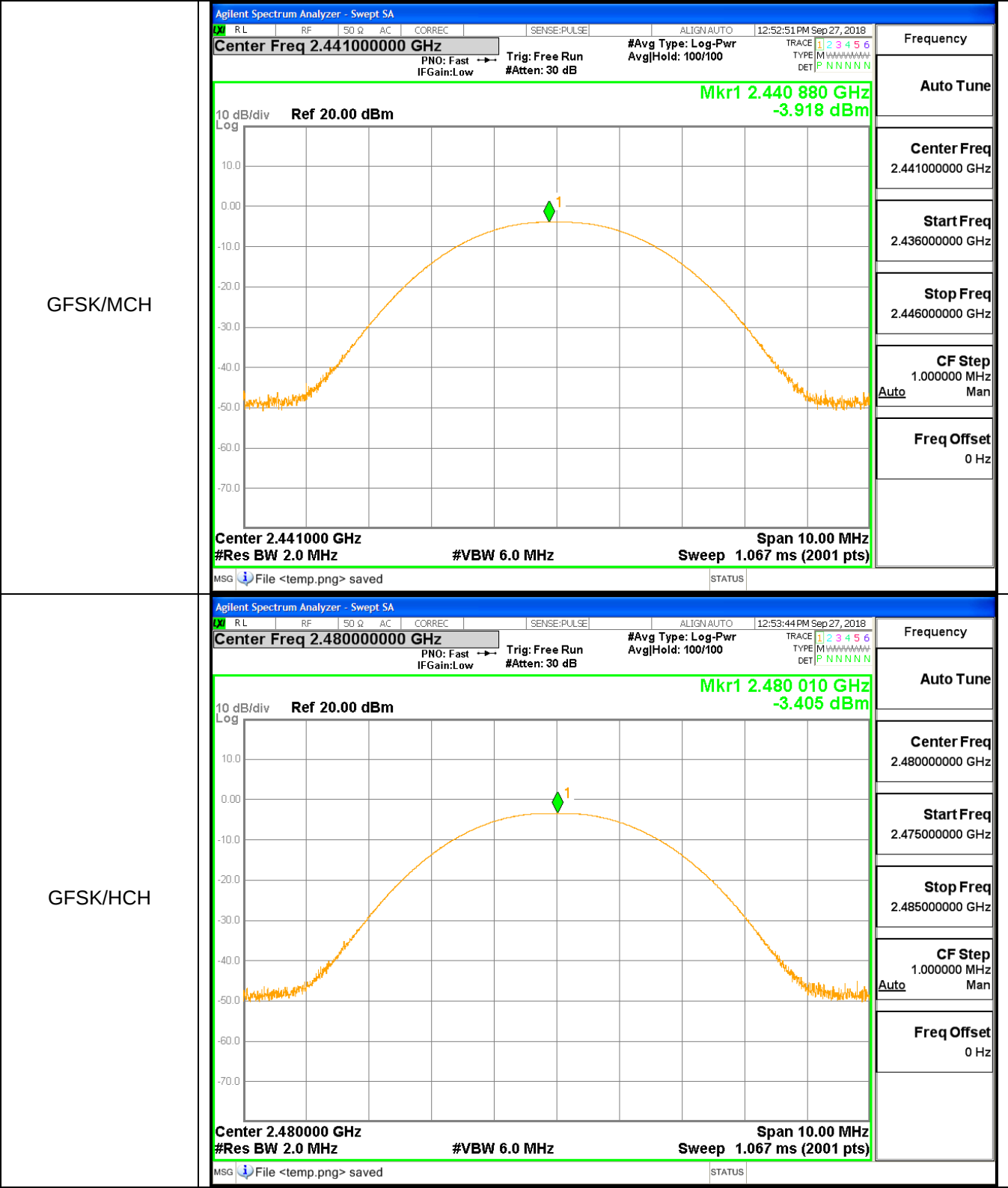


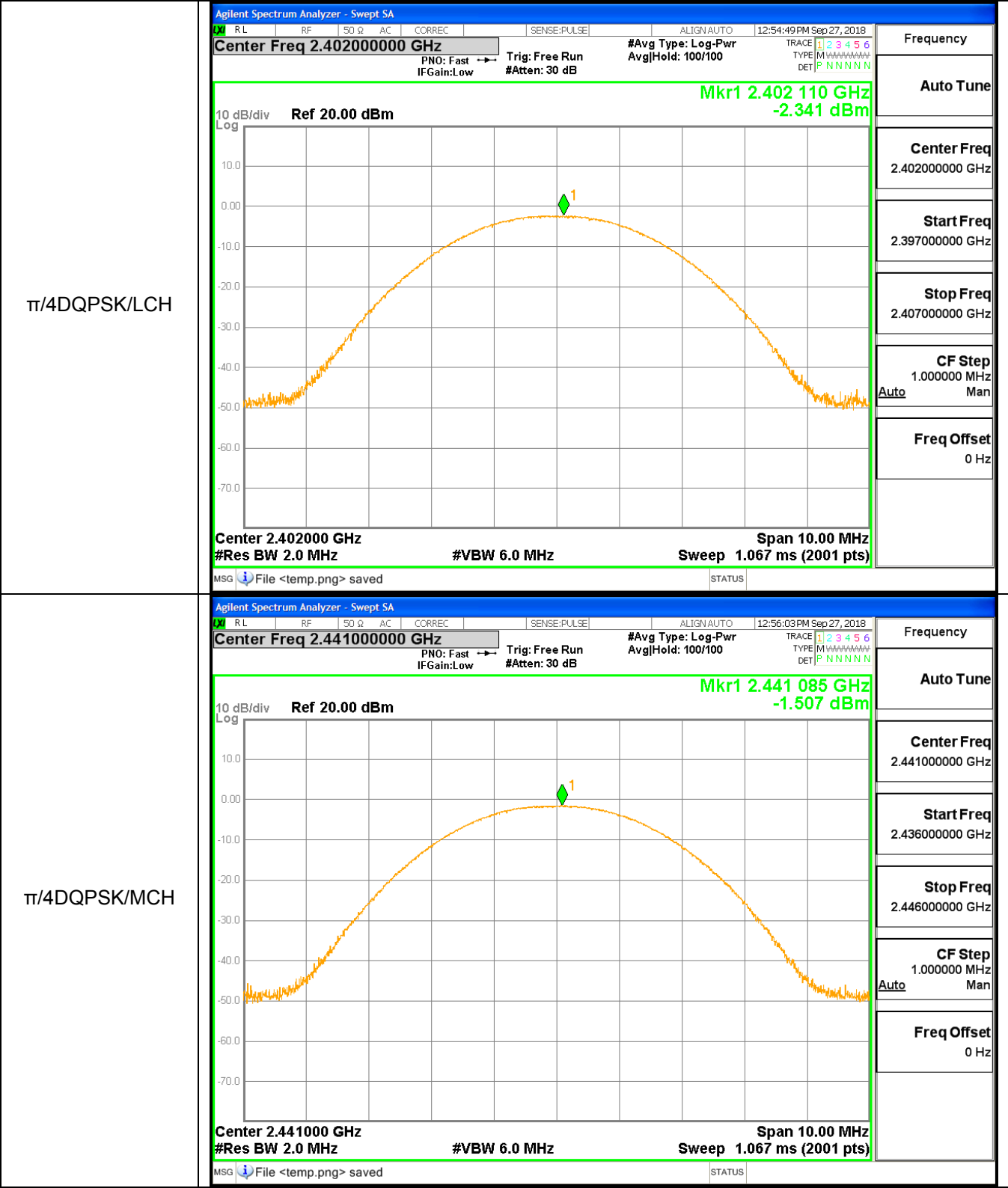
A.5. Conducted Peak Output Power

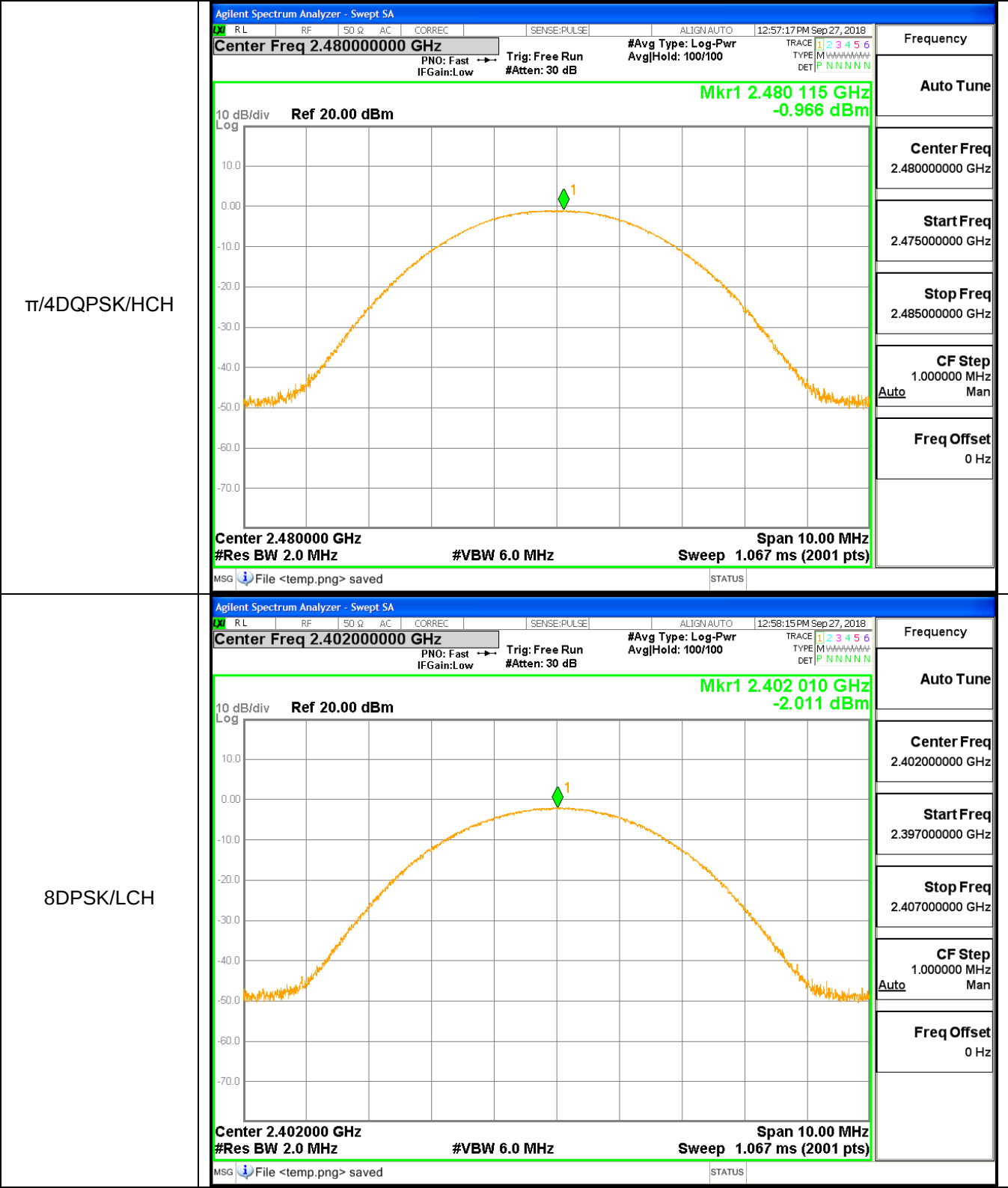
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-4.61	21	PASS
GFSK	MCH	-3.92	21	PASS
GFSK	HCH	-3.41	21	PASS
$\pi/4$ DQPSK	LCH	-2.34	21	PASS
$\pi/4$ DQPSK	MCH	-1.51	21	PASS
$\pi/4$ DQPSK	HCH	-0.97	21	PASS
8DPSK	LCH	-2.01	21	PASS
8DPSK	MCH	-1.08	21	PASS
8DPSK	HCH	-0.63	21	PASS

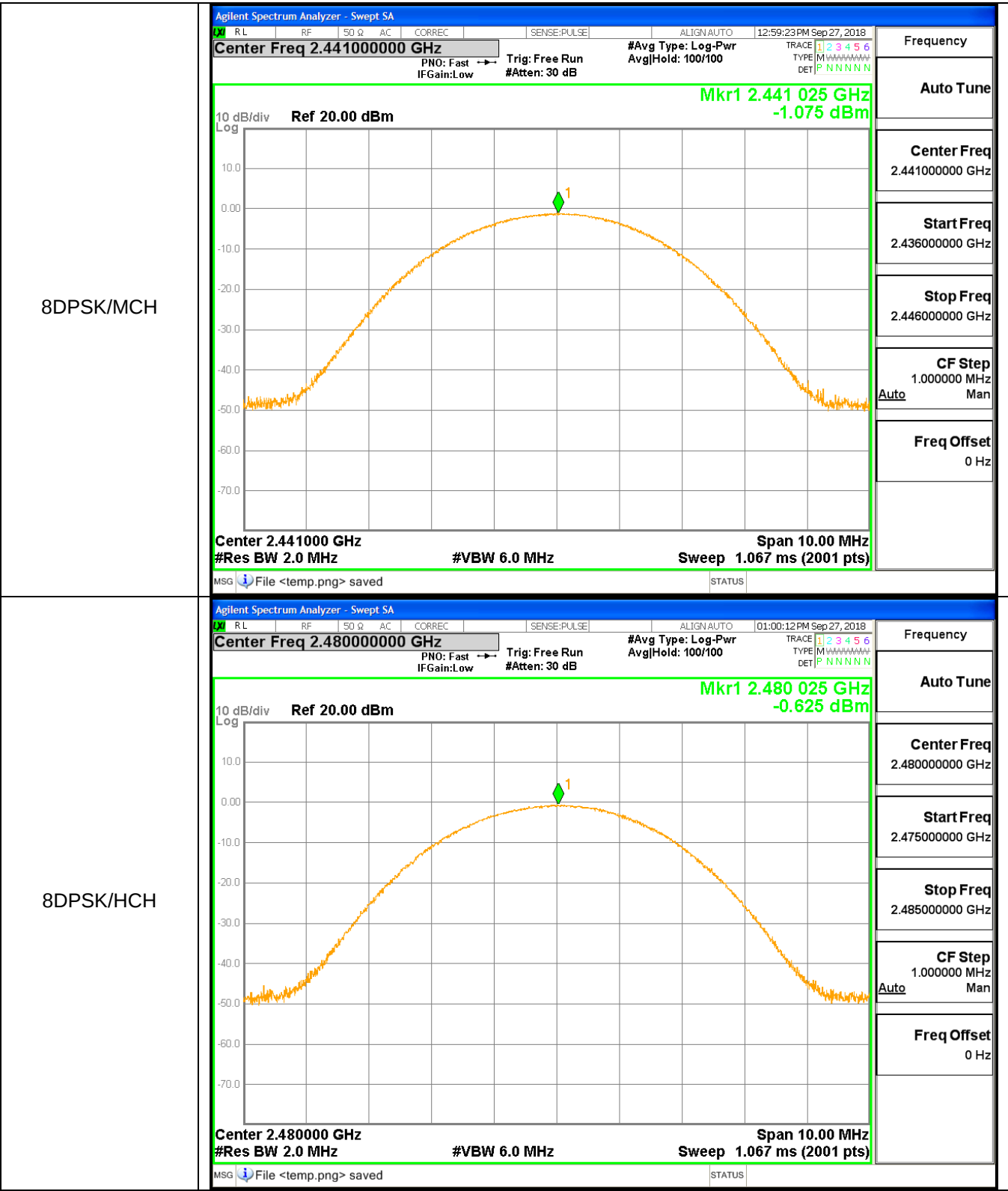
Test Graph







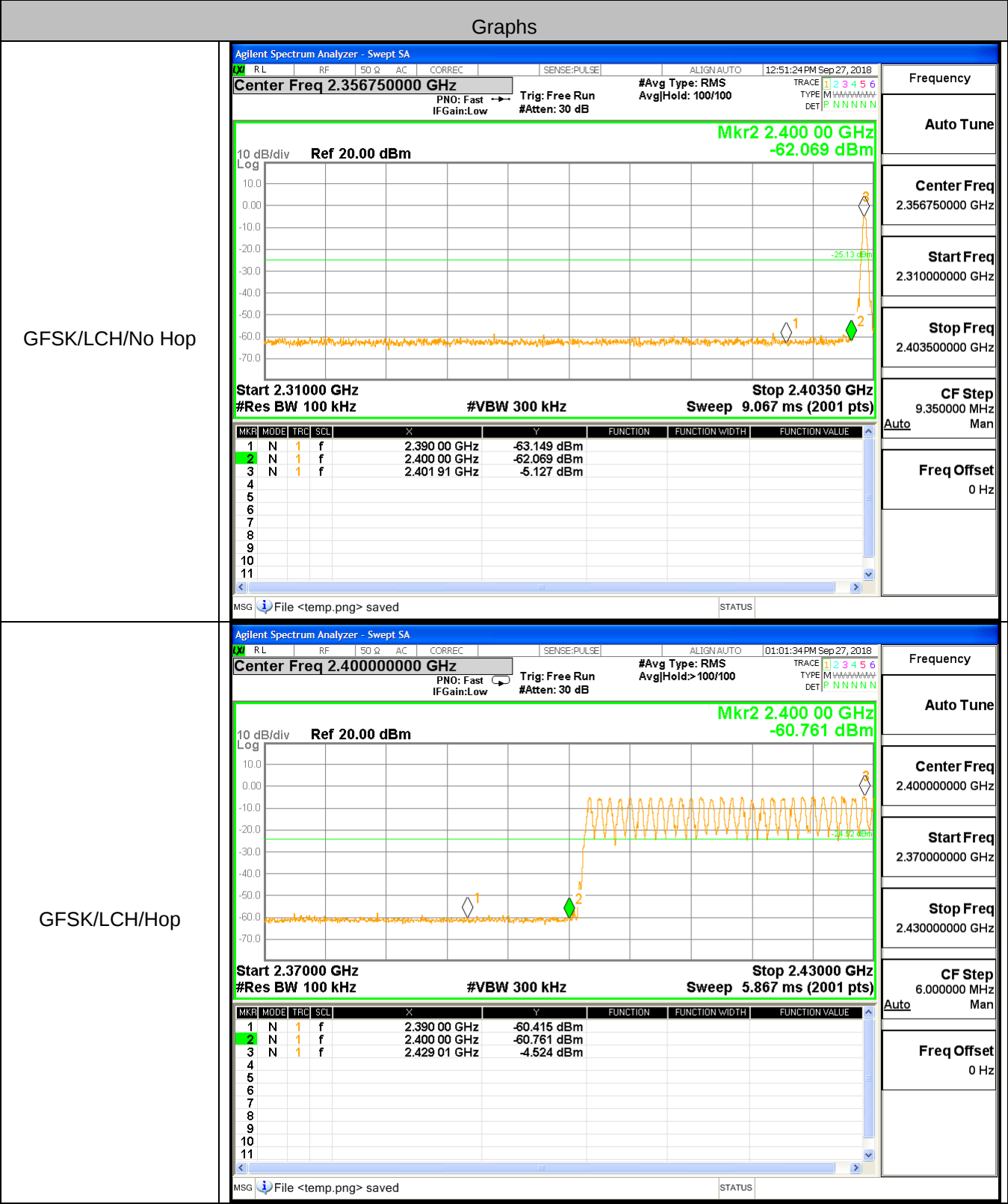


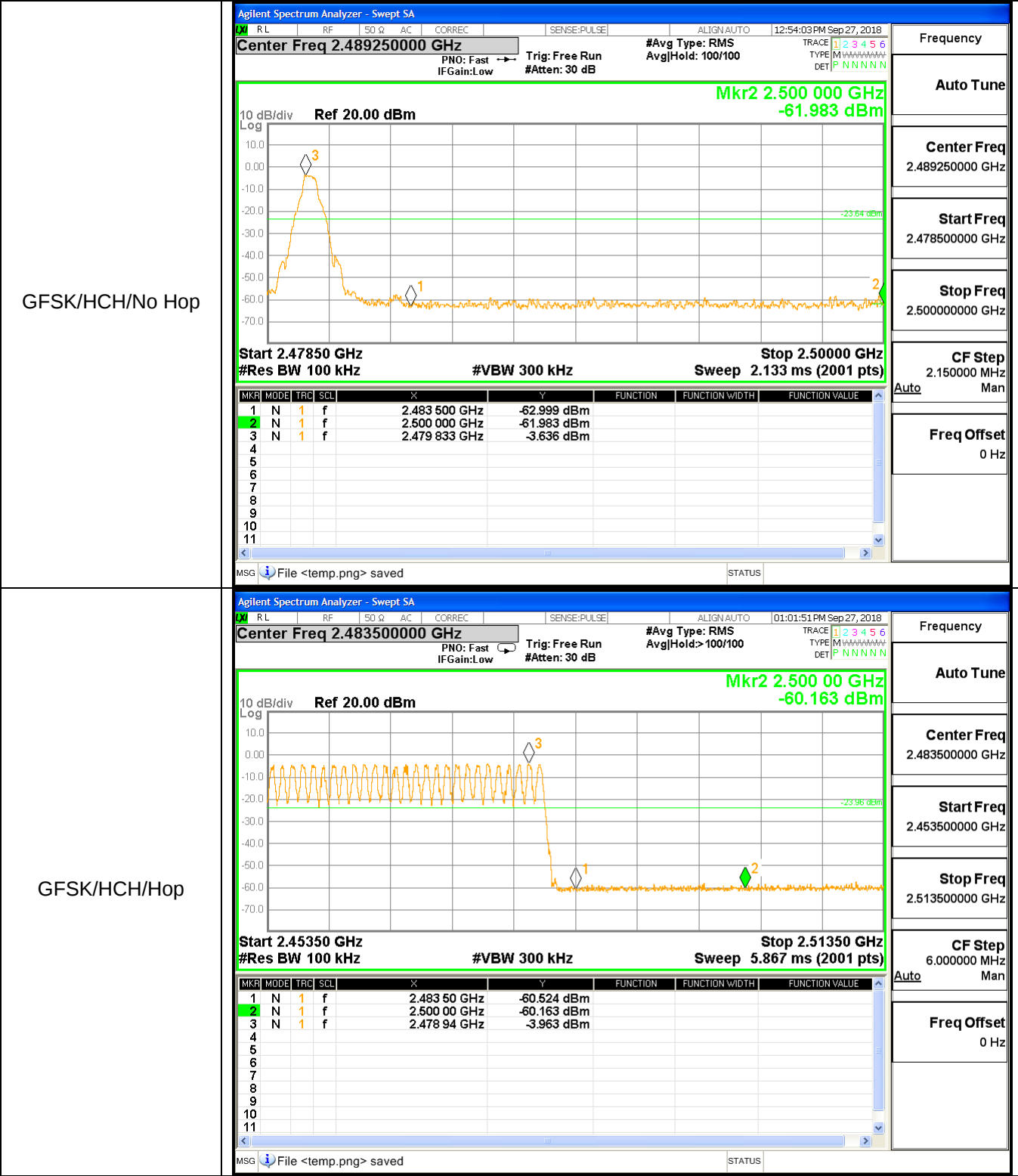


A.6. Band-edge for RF Conducted Emissions

Mode	Frequency(MHz)	Measure Frequency(MHz)	Bandedge Peak(dBm)	Upper limit(dBm)	Verdict
1DH5	2402	2390	-63.15	-25.13	Pass
1DH5	2402	2400	-62.07	-25.13	Pass
1DH5	2480	2483.5	-63.00	-23.64	Pass
1DH5	2480	2500	-61.98	-23.64	Pass
2DH5	2402	2390	-60.49	-23.87	Pass
2DH5	2402	2400	-58.70	-23.87	Pass
2DH5	2480	2483.5	-58.75	-22.67	Pass
2DH5	2480	2500	-62.42	-22.67	Pass
3DH5	2402	2390	-62.01	-24.10	Pass
3DH5	2402	2400	-56.9	-24.10	Pass
3DH5	2480	2483.5	-61.65	-25.34	Pass
3DH5	2480	2500	-63.16	-25.34	Pass
1DH5-Hopping	2402-2480	2390	-60.42	-24.52	Pass
1DH5-Hopping	2402-2480	2400	-60.76	-24.52	Pass
1DH5-Hopping	2402-2480	2483.5	-60.52	-23.96	Pass
1DH5-Hopping	2402-2480	2500	-60.16	-23.96	Pass
2DH5-Hopping	2402-2480	2390	-60.29	-24.04	Pass
2DH5-Hopping	2402-2480	2400	-59.82	-24.04	Pass
2DH5-Hopping	2402-2480	2483.5	-60.41	-22.67	Pass
2DH5-Hopping	2402-2480	2500	-61.12	-22.67	Pass
3DH5-Hopping	2402-2480	2390	-61.73	-23.97	Pass
3DH5-Hopping	2402-2480	2400	-59.57	-23.97	Pass
3DH5-Hopping	2402-2480	2483.5	-60.45	-22.68	Pass
3DH5-Hopping	2402-2480	2500	-60.18	-22.68	Pass

Test Graph





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

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.356750000 GHz

Ref 20.00 dBm

Mkr2 2.400 00 GHz -58.701 dBm

Start 2.31000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.40350 GHz Sweep 9.067 ms (2001 pts)

MkP	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.390 00 GHz	-60.493 dBm			
2	N	1	f	2.400 00 GHz	-58.701 dBm			
3	N	1	f	2.401 82 GHz	-3.868 dBm			

$\pi/4$ DQPSK/LCH/Hop

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.400000000 GHz

Ref 20.00 dBm

Mkr2 2.400 00 GHz -59.816 dBm

Start 2.37000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.43000 GHz Sweep 5.867 ms (2001 pts)

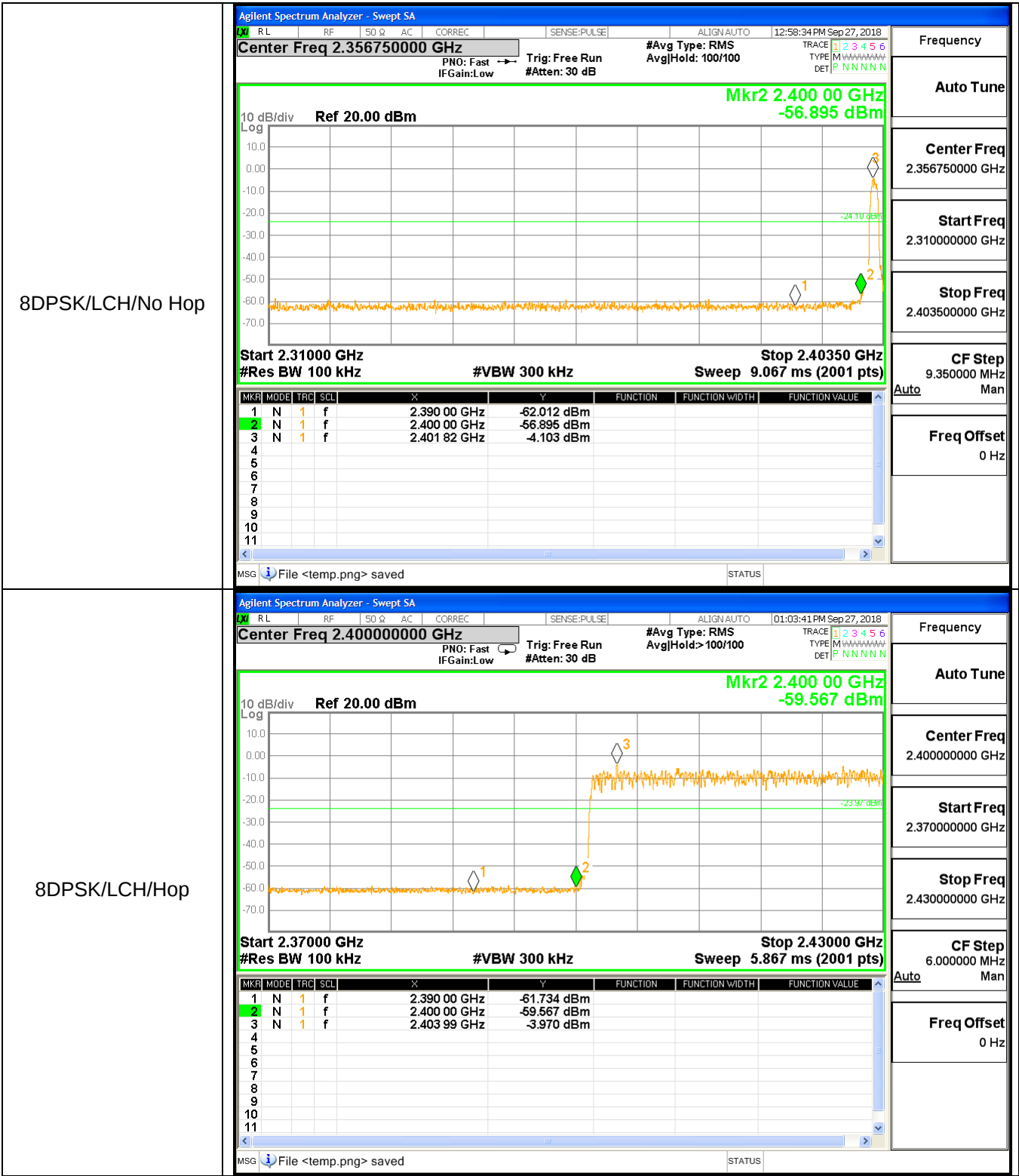
MkP	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.390 00 GHz	-60.294 dBm			
2	N	1	f	2.400 00 GHz	-59.816 dBm			
3	N	1	f	2.402 82 GHz	-4.035 dBm			

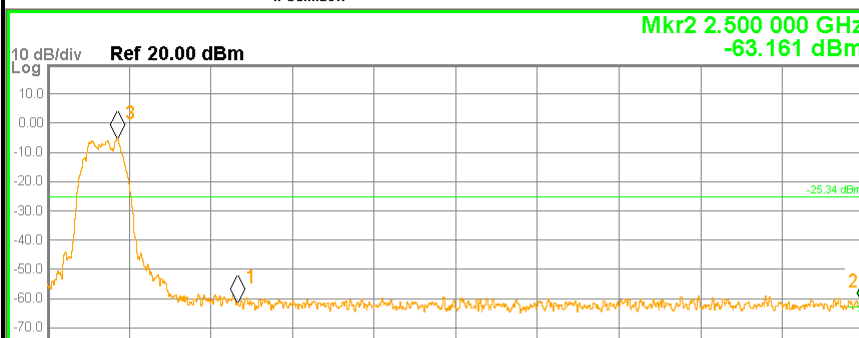
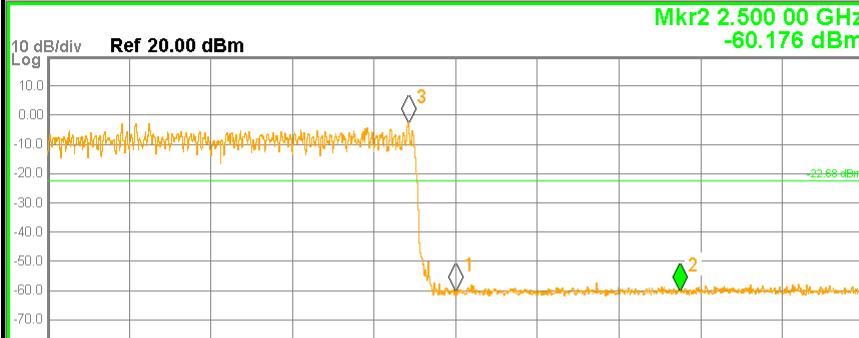
$\pi/4$ DQPSK/HCH/No
Hop

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.483 500 GHz	-58.750 dBm			
2	N	1	f	2.500 000 GHz	-62.423 dBm			
3	N	1	f	2.480 166 GHz	-2.666 dBm			

$\pi/4$ DQPSK/HCH/Hop

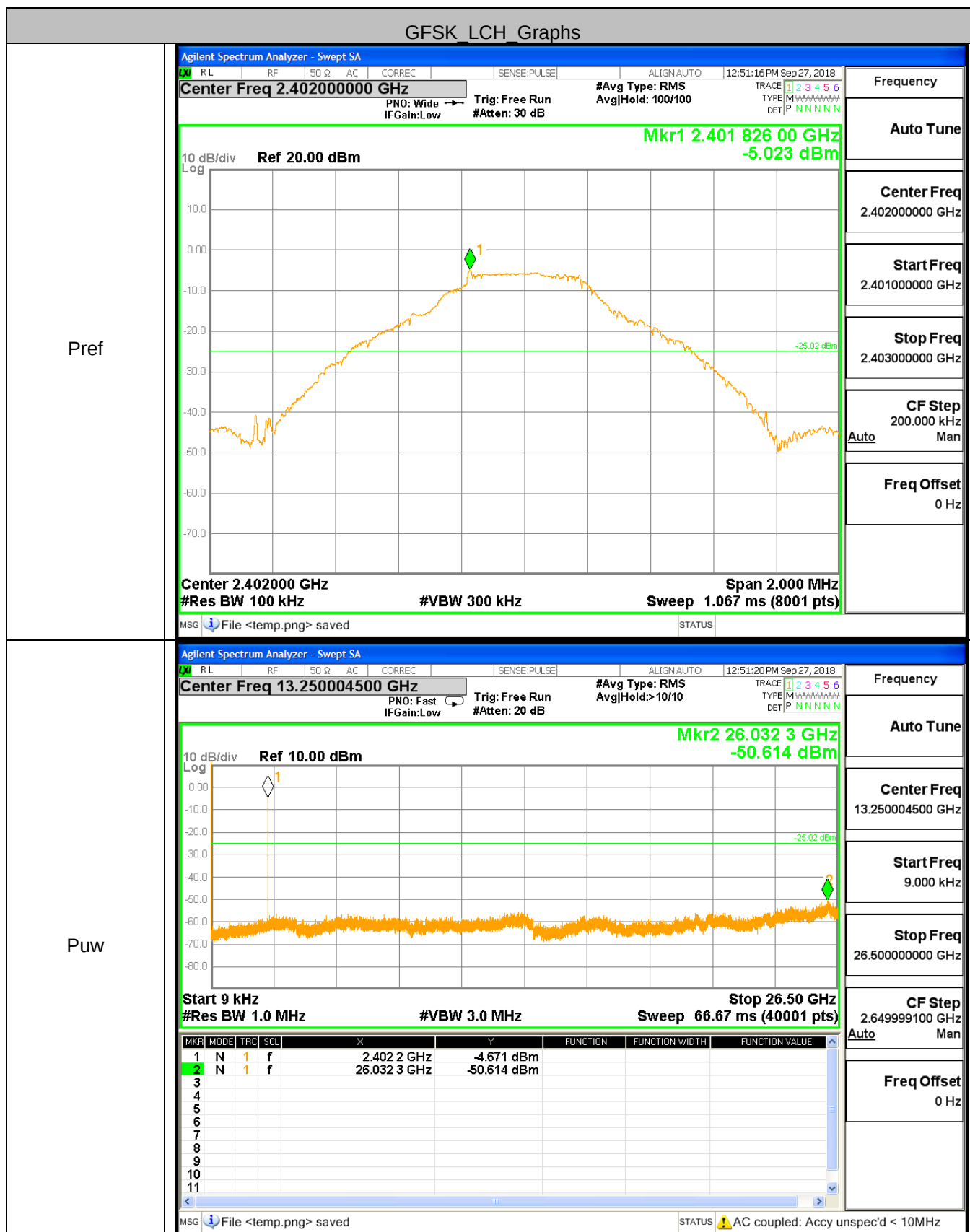
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.483 50 GHz	-60.198 dBm			
2	N	1	f	2.500 00 GHz	-61.116 dBm			
3	N	1	f	2.478 16 GHz	-2.672 dBm			

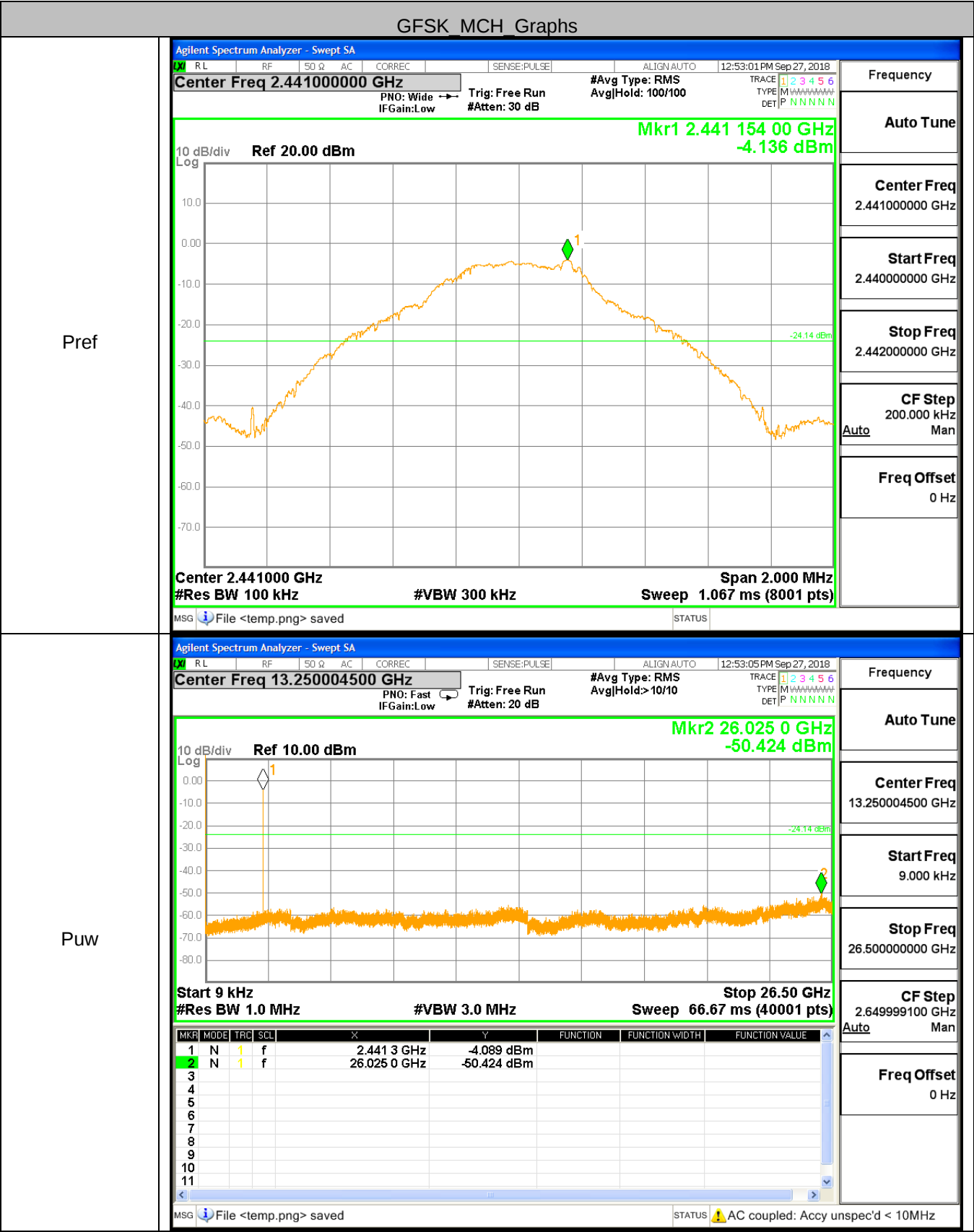


8DPSK/HCH/No Hop	Agilent Spectrum Analyzer - Swept SA Center Freq 2.489250000 GHz RL RF 50 Ω AC CORREC SENSE:PULSE ALIGN:AUTO 01:00:30 PM Sep 27, 2018 PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 100/100 TRACE 1 2 3 4 5 6 TYPE M N N N N N N DET P N N N N N N 10 dB/div Ref 20.00 dBm Mkr2 2.500 000 GHz -63.161 dBm  Start 2.47850 GHz Stop 2.50000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.133 ms (2001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.483 500 GHz</td><td>-61.652 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.500 000 GHz</td><td>-63.161 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.480 338 GHz</td><td>-5.343 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MSG File <temp.png> saved STATUS	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.483 500 GHz	-61.652 dBm				2	N	1	f	2.500 000 GHz	-63.161 dBm				3	N	1	f	2.480 338 GHz	-5.343 dBm				4									5									6									7									8									9									10									11									Frequency Auto Tune Center Freq 2.489250000 GHz Start Freq 2.478500000 GHz Stop Freq 2.500000000 GHz CF Step 2.150000 MHz Auto Man Freq Offset 0 Hz
	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																																																																																					
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	2	N	1	f	2.500 000 GHz	-63.161 dBm																																																																																																								
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8DPSK/HCH/Hop	Agilent Spectrum Analyzer - Swept SA Center Freq 2.483500000 GHz RL RF 50 Ω AC CORREC SENSE:PULSE ALIGN:AUTO 01:03:59 PM Sep 27, 2018 PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 100/100 TRACE 1 2 3 4 5 6 TYPE M N N N N N N DET P N N N N N N 10 dB/div Ref 20.00 dBm Mkr2 2.500 00 GHz -60.176 dBm  Start 2.45350 GHz Stop 2.51350 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.867 ms (2001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.483 50 GHz</td><td>-60.452 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.500 00 GHz</td><td>-60.176 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.480 02 GHz</td><td>-2.683 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MSG File <temp.png> saved STATUS	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.483 50 GHz	-60.452 dBm				2	N	1	f	2.500 00 GHz	-60.176 dBm				3	N	1	f	2.480 02 GHz	-2.683 dBm				4									5									6									7									8									9									10									11									Frequency Auto Tune Center Freq 2.483500000 GHz Start Freq 2.453500000 GHz Stop Freq 2.513500000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz
	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																																																																																					
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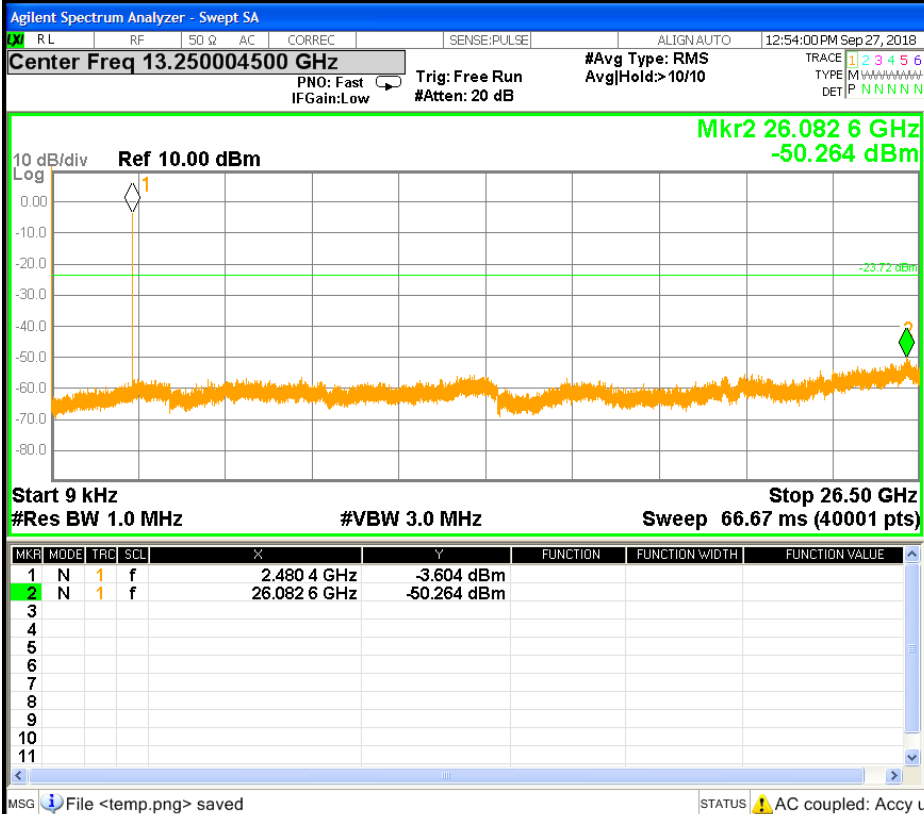
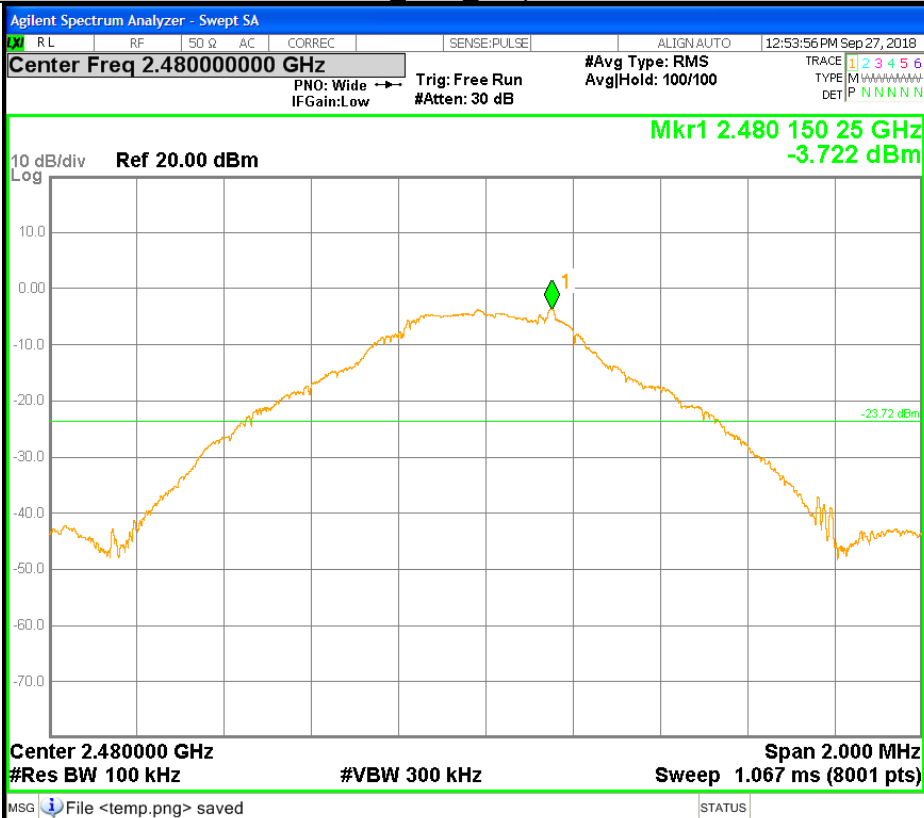
A.7. RF Conducted Spurious Emissions

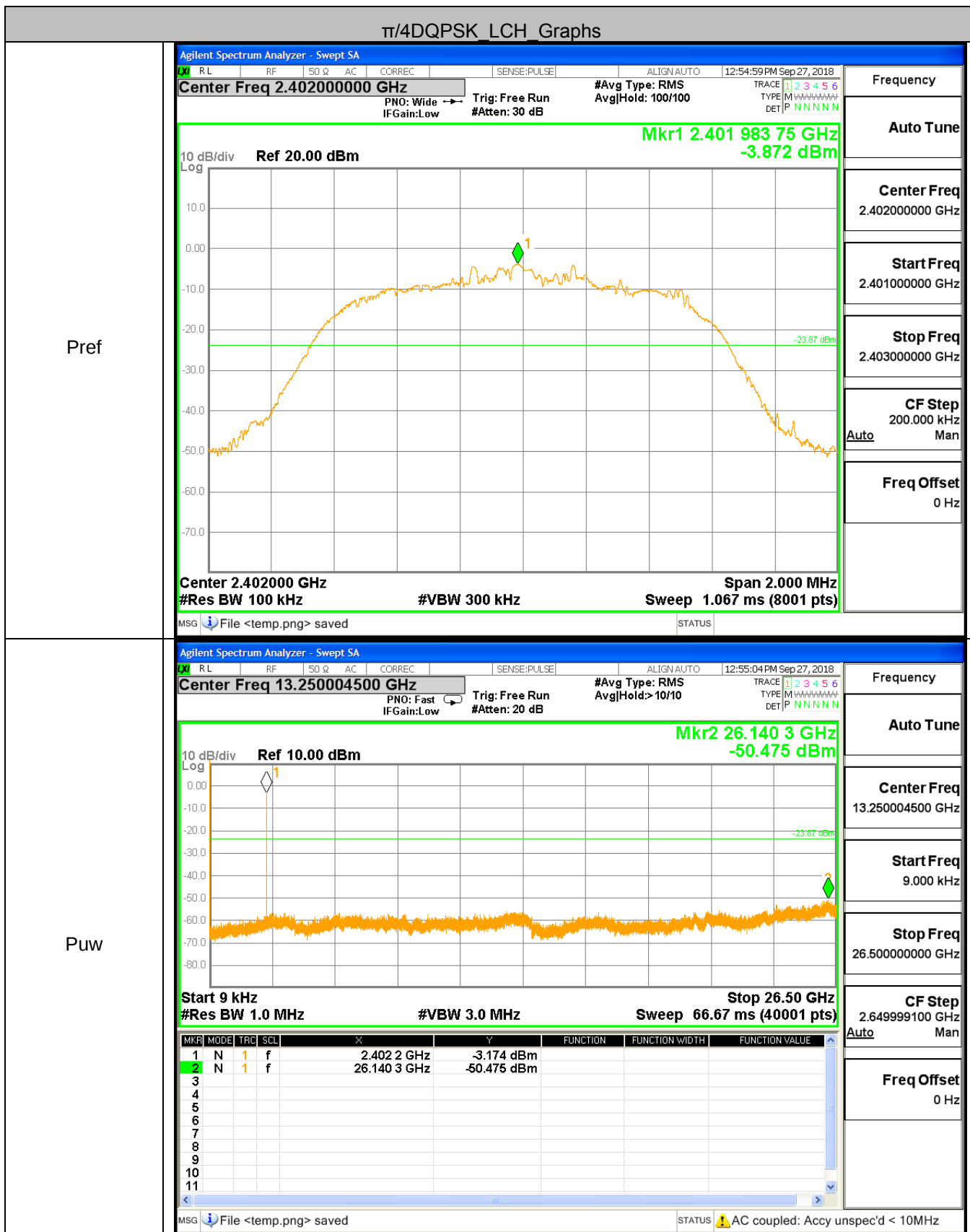
Test Graph



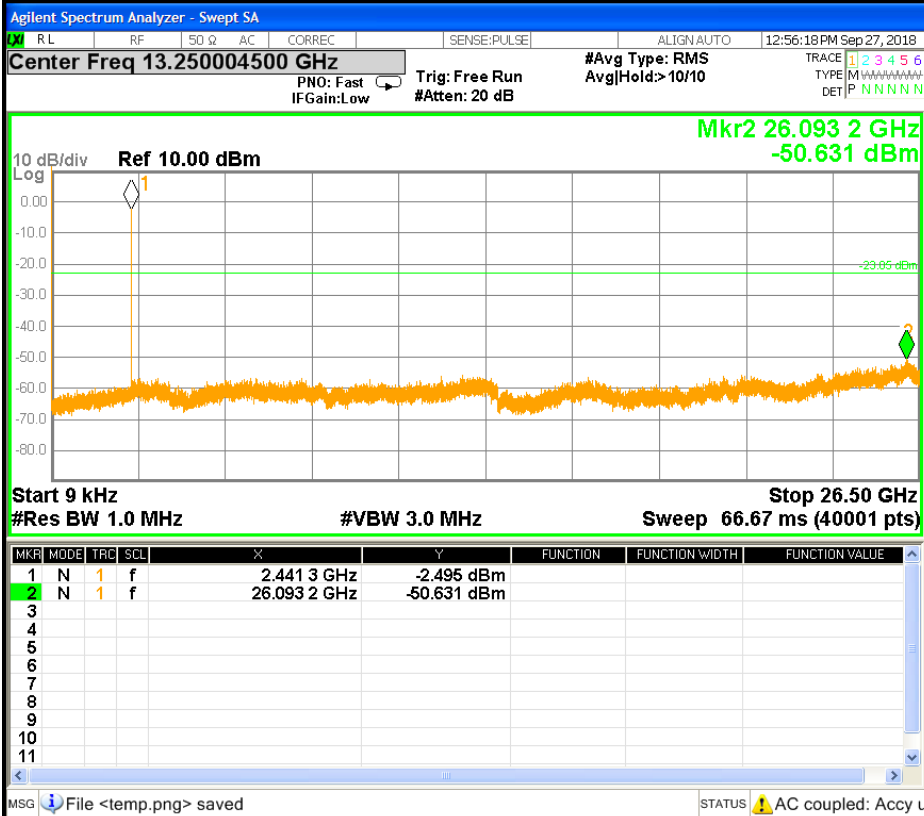
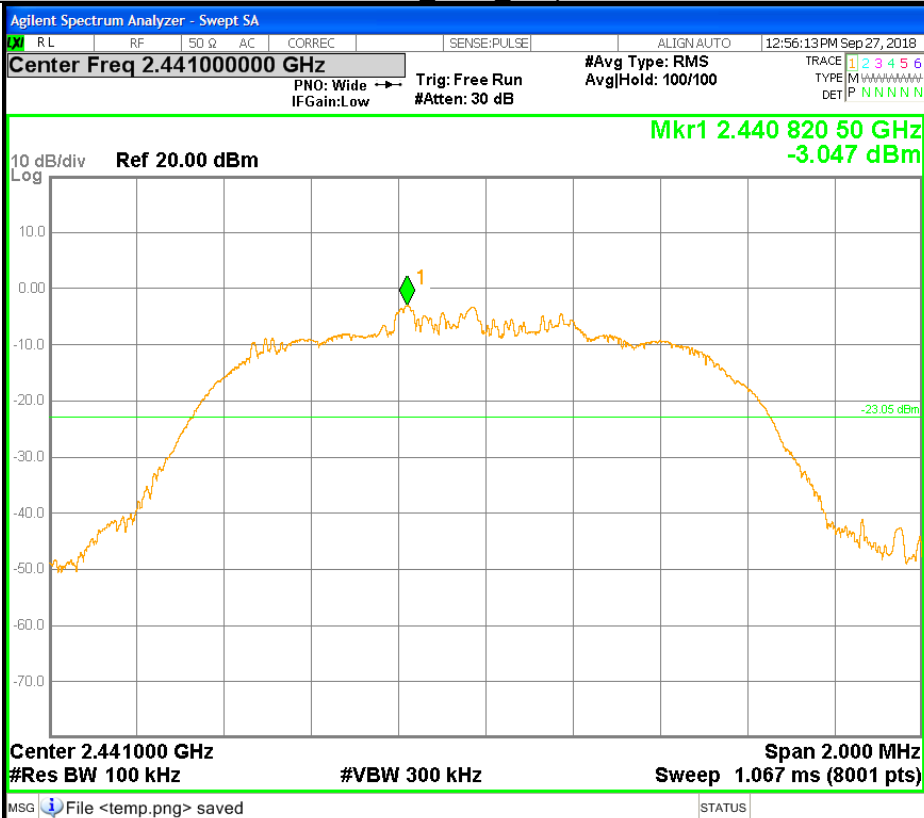


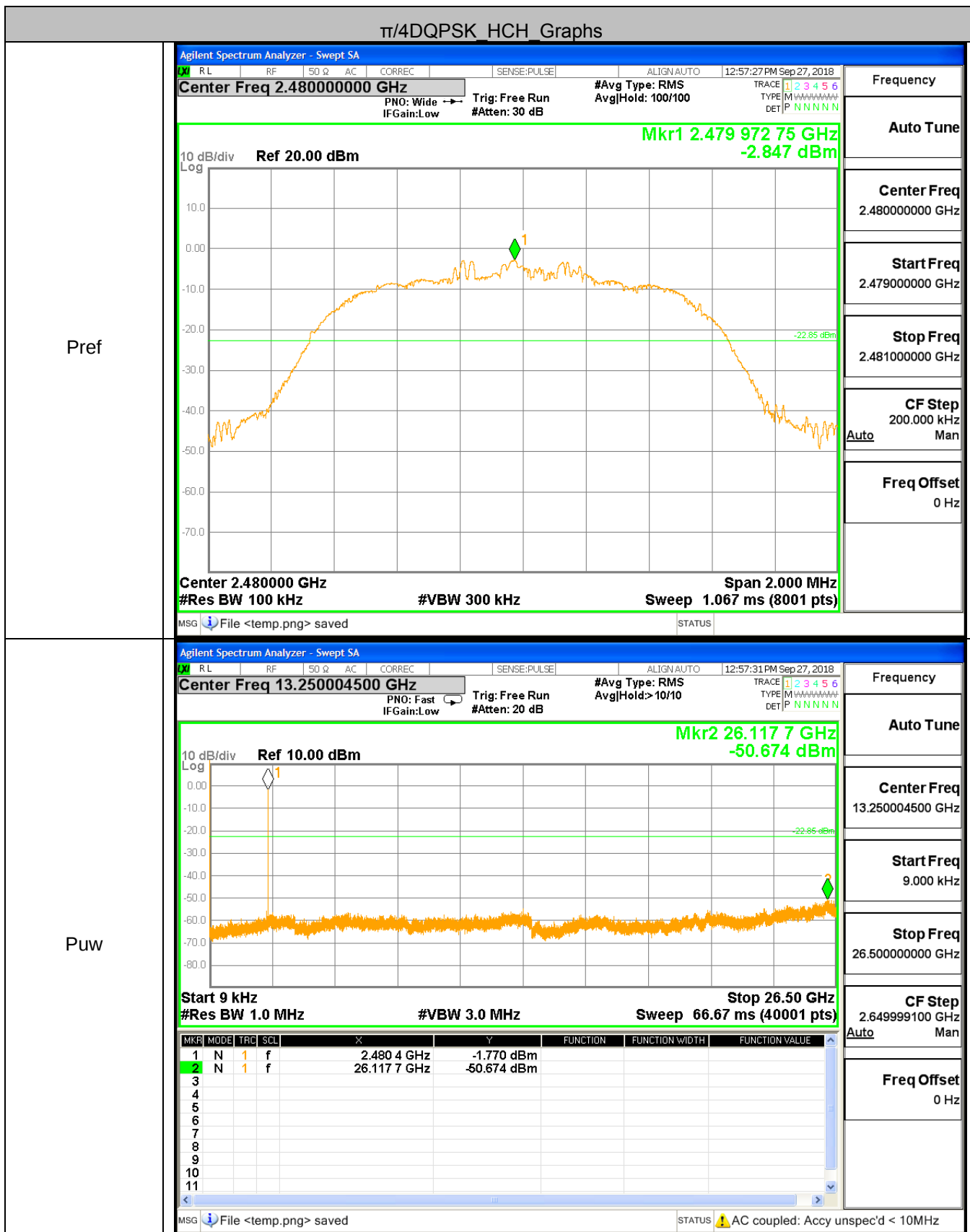
GFSK HCH Graphs



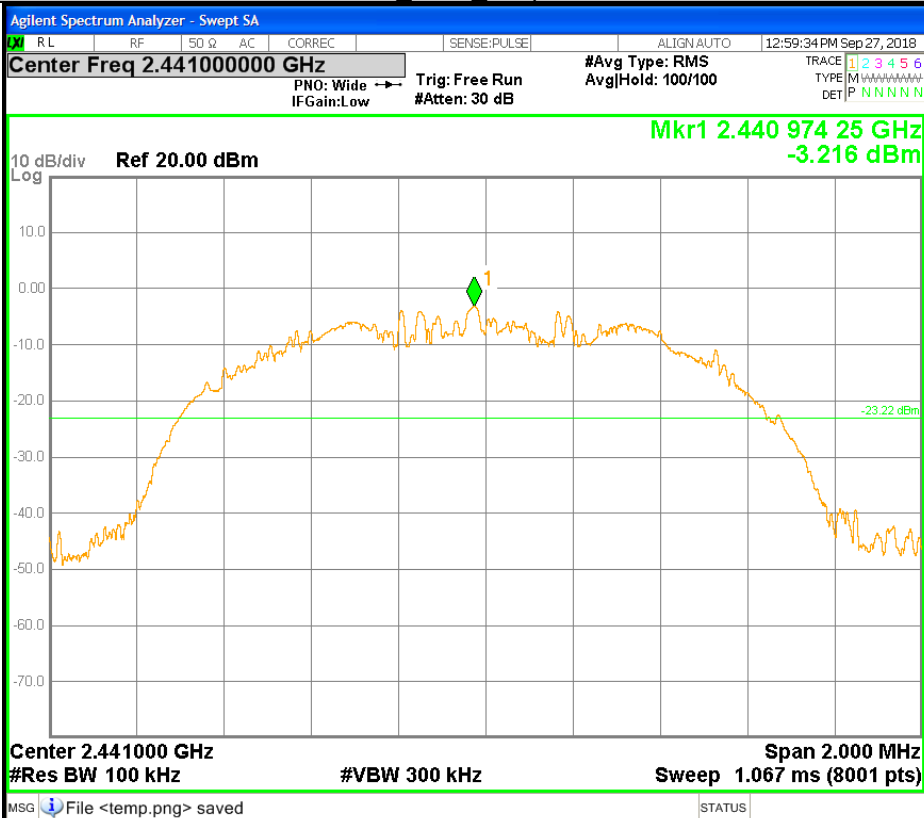


$\pi/4$ DQPSK MCH Graphs

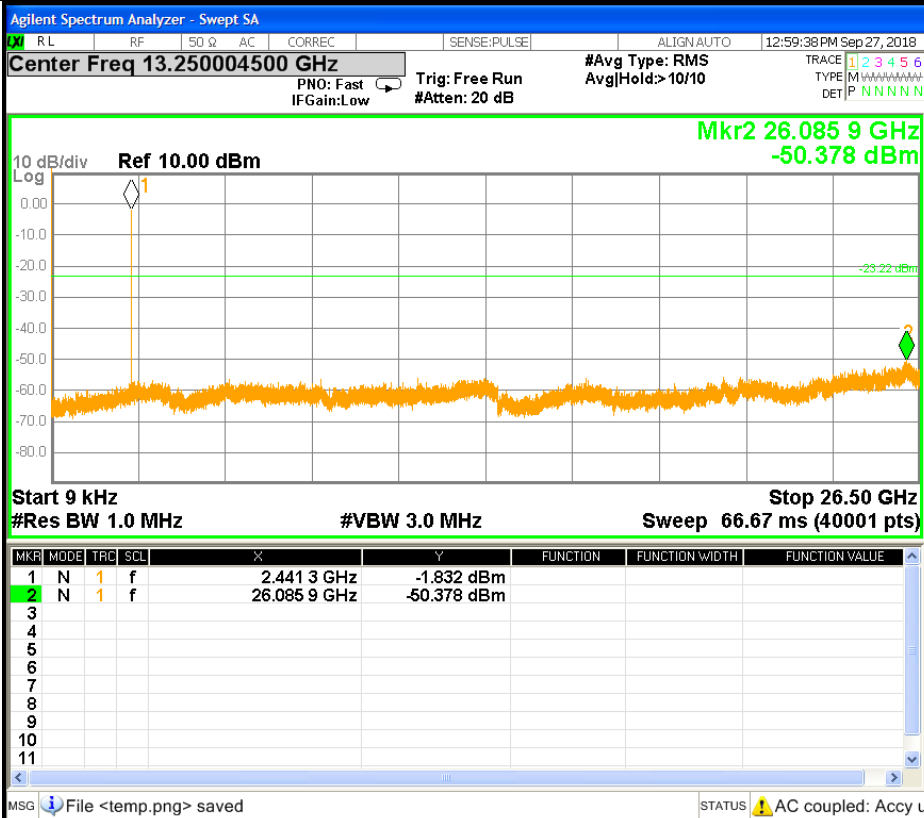




8DPSK MCH Graphs

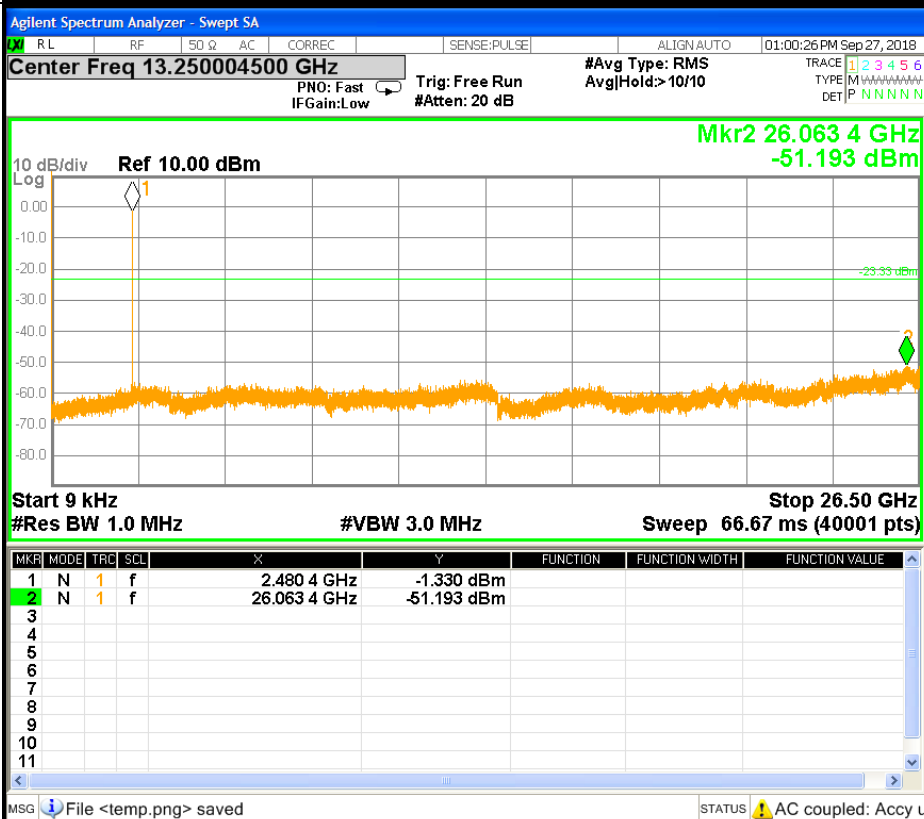
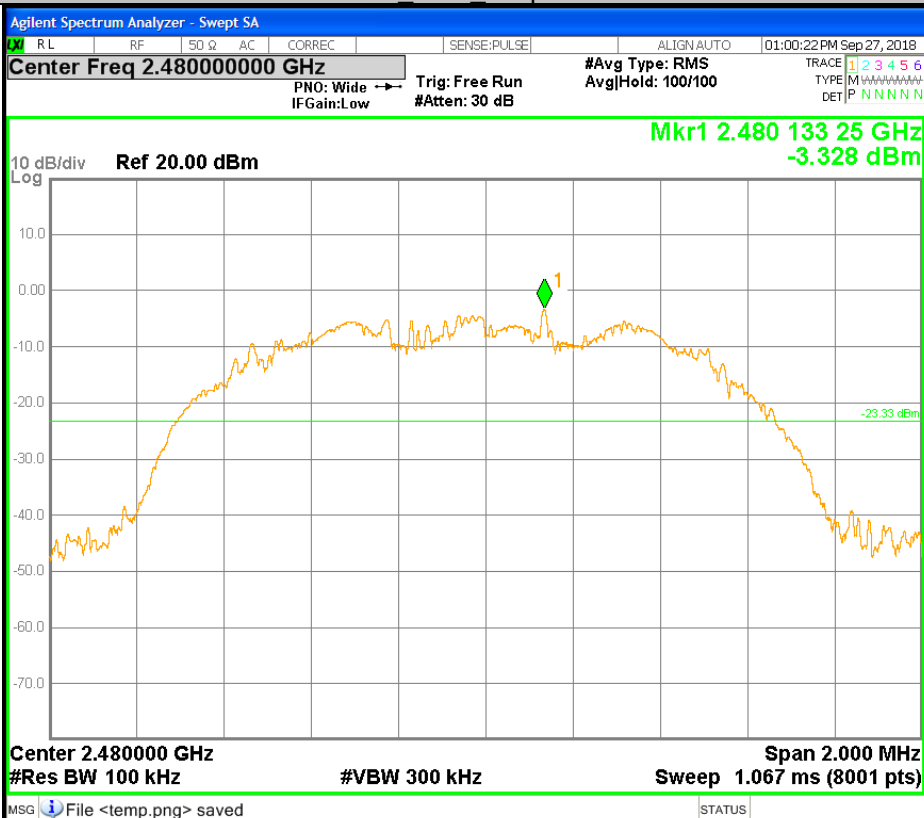


Frequency
Auto Tune
Center Freq 2.441000000 GHz
Start Freq 2.440000000 GHz
Stop Freq 2.442000000 GHz
CF Step 200.000 kHz <u>Auto</u> Man
Freq Offset 0 Hz



Frequency
Auto Tune
Center Freq 13.250004500 GHz
Start Freq 9.000 kHz
Stop Freq 26.500000000 GHz
CF Step 2.649999100 GHz
Auto Man
Freq Offset 0 Hz

8DPSK HCH Graphs



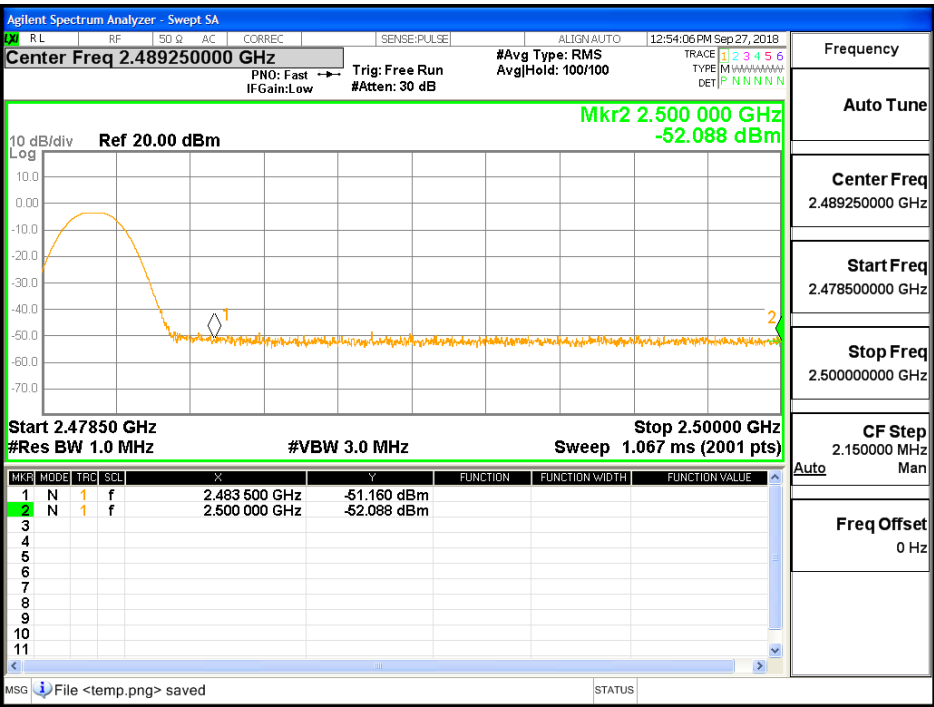
A.8.Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detect or	Limit [dBuV/m]	Verdi
GFSK	Off	2310	-52.61	0	0	42.59	PEAK	74	Pass
	Off	2390	-54.10	0	0	41.1	PEAK	74	Pass
	Off	2483.5	-51.16	0	0	44.04	PEAK	74	Pass
	Off	2500	-52.09	0	0	43.11	PEAK	74	Pass
	Off	2310	-60.21	0	0	34.99	AV	54	Pass
	Off	2390	-59.87	0	0	35.33	AV	54	Pass
	Off	2483.5	-57.81	0	0	37.39	AV	54	Pass
	Off	2500	-59.32	0	0	35.88	AV	54	Pass
$\pi/4$ DQPSK	Off	2310	-52.24	0	0	42.96	PEAK	74	Pass
	Off	2390	-52.79	0	0	42.41	PEAK	74	Pass
	Off	2483.5	-50.82	0	0	44.38	PEAK	74	Pass
	Off	2500	-52.10	0	0	43.1	PEAK	74	Pass
	Off	2310	-60.22	0	0	34.98	AV	54	Pass
	Off	2390	-59.85	0	0	35.35	AV	54	Pass
	Off	2483.5	-57.14	0	0	38.06	AV	54	Pass
	Off	2500	-59.26	0	0	35.94	AV	54	Pass
8DPSK	Off	2310	-52.67	0	0	42.53	PEAK	74	Pass
	Off	2390	-52.67	0	0	42.53	PEAK	74	Pass
	Off	2483.5	-51.68	0	0	43.52	PEAK	74	Pass
	Off	2500	-53.34	0	0	41.86	PEAK	74	Pass
	Off	2310	-60.23	0	0	34.97	AV	54	Pass
	Off	2390	-59.87	0	0	35.33	AV	54	Pass
	Off	2483.5	-57.16	0	0	38.04	AV	54	Pass
	Off	2500	-59.30	0	0	35.9	AV	54	Pass

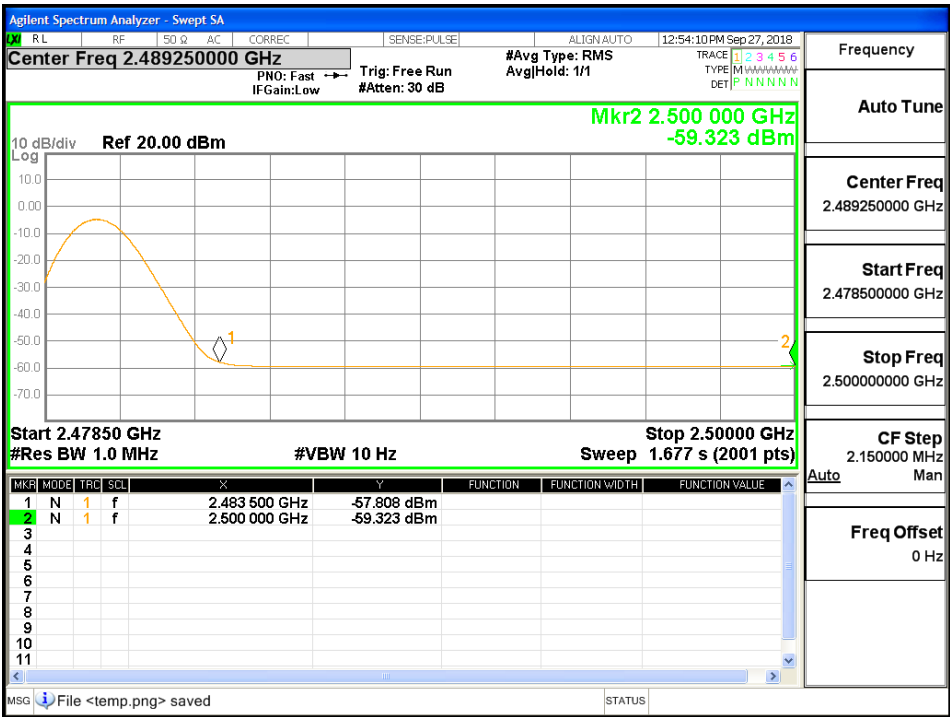
Test Graph



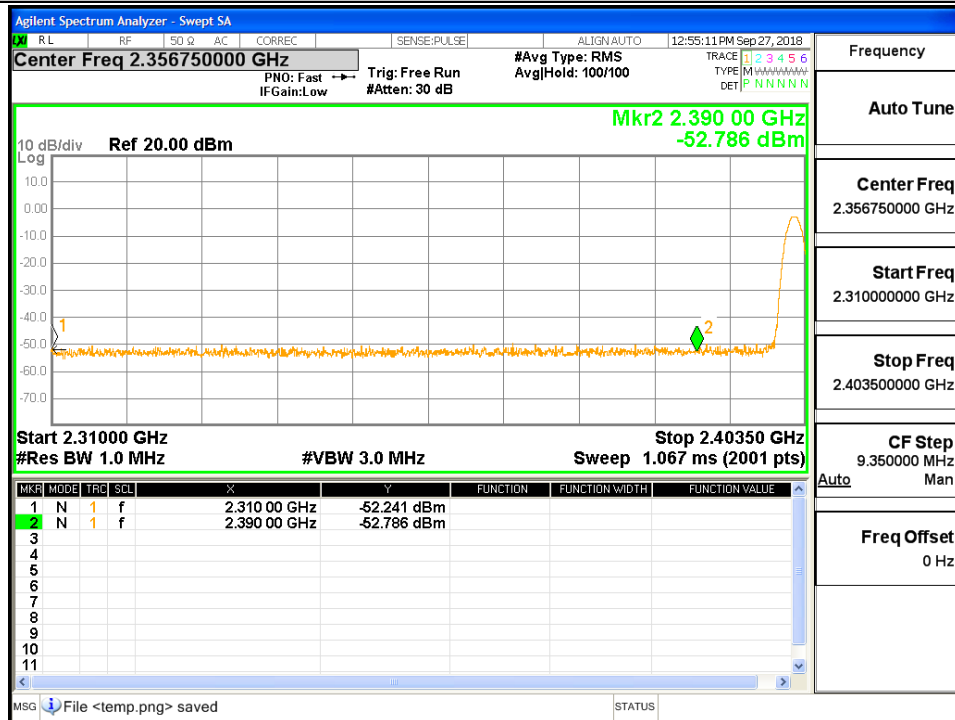
Restrict-band band-edge measurements_2480_PEAK_DH5



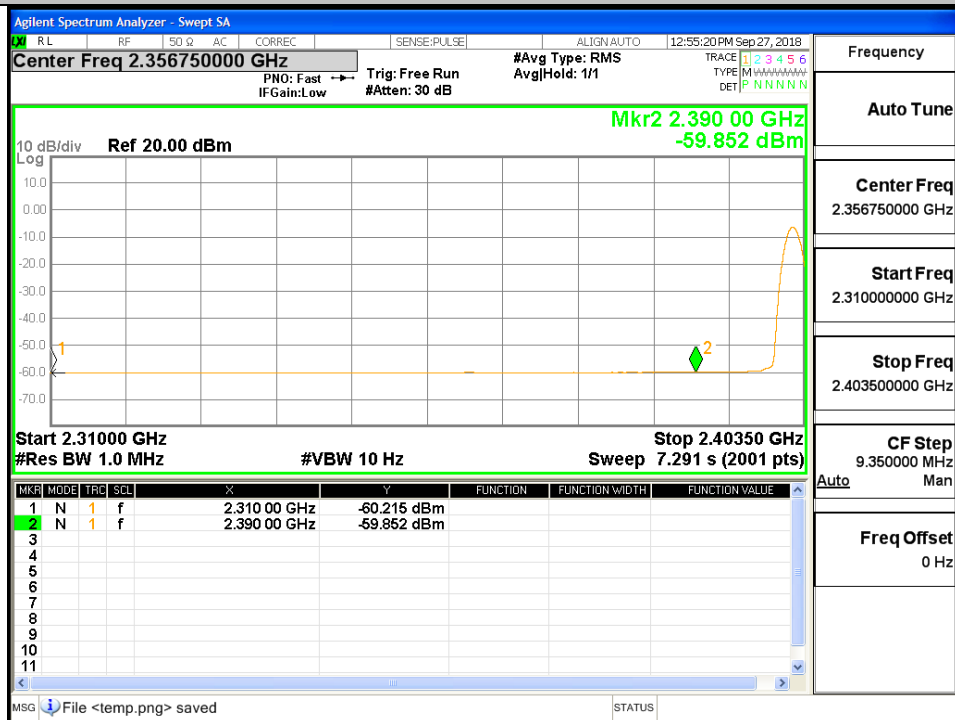
Restrict-band band-edge measurements_2480_AV_DH5



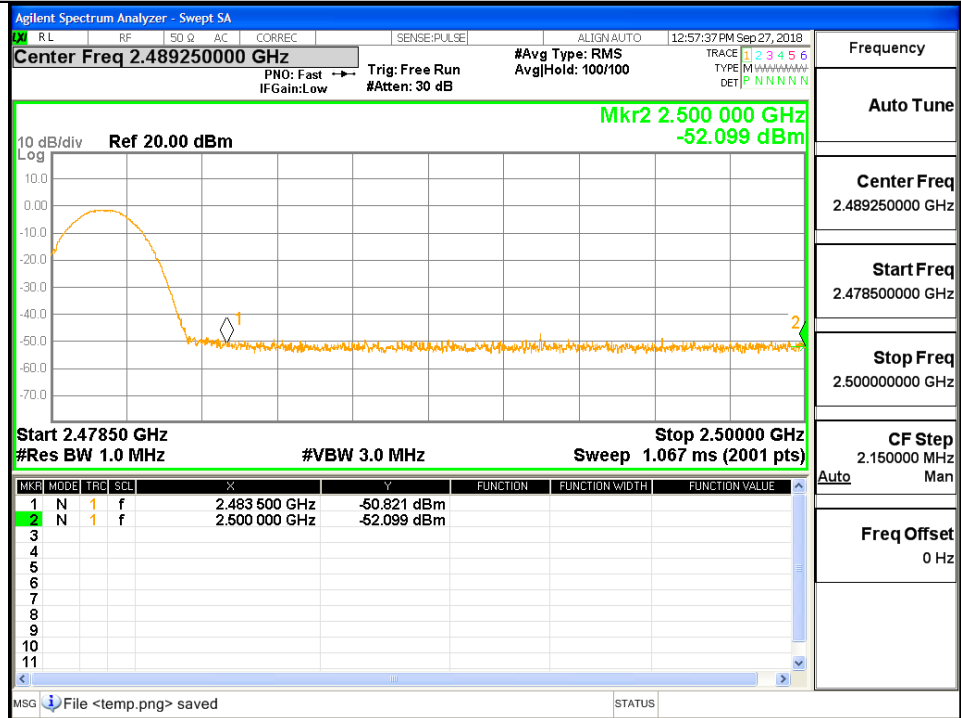
Restrict-band band-edge measurements_2402_PEAK_2DH5



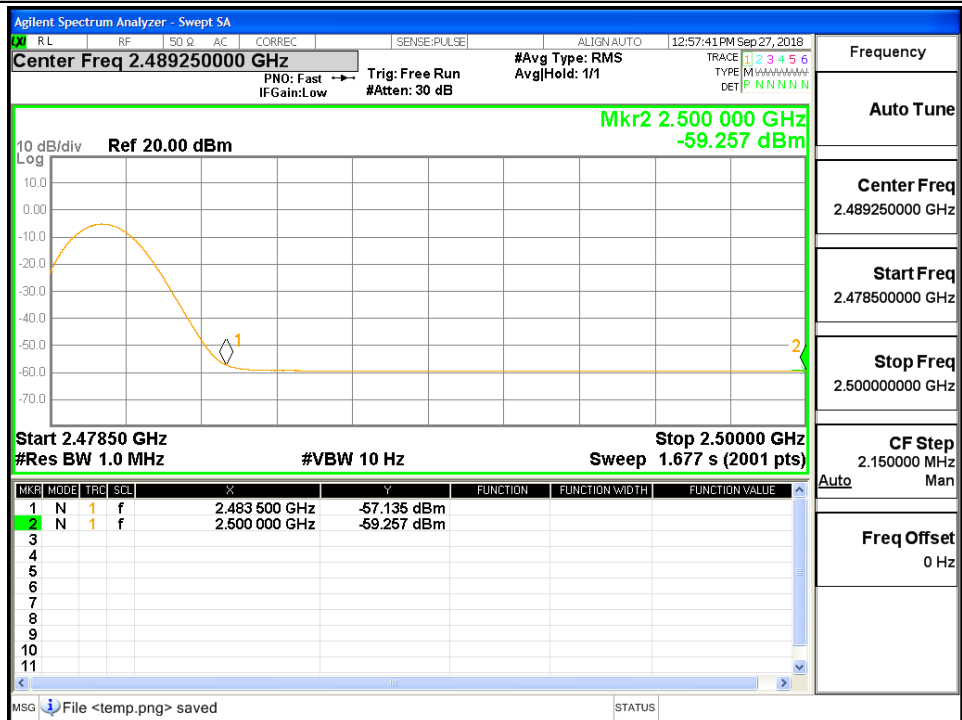
Restrict-band band-edge measurements_2402_AV_2DH5



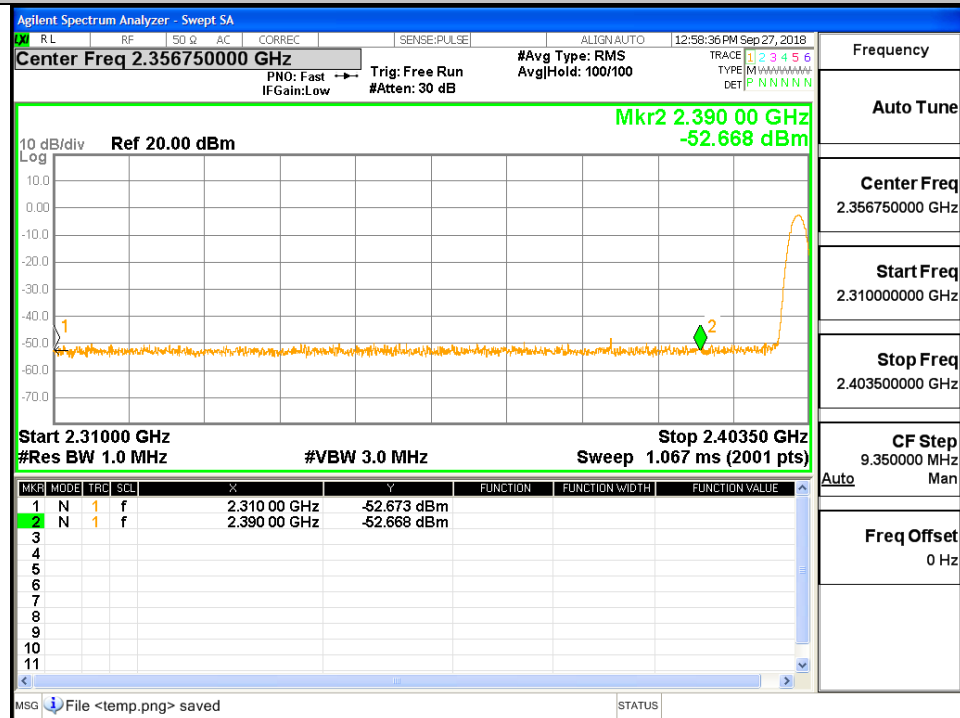
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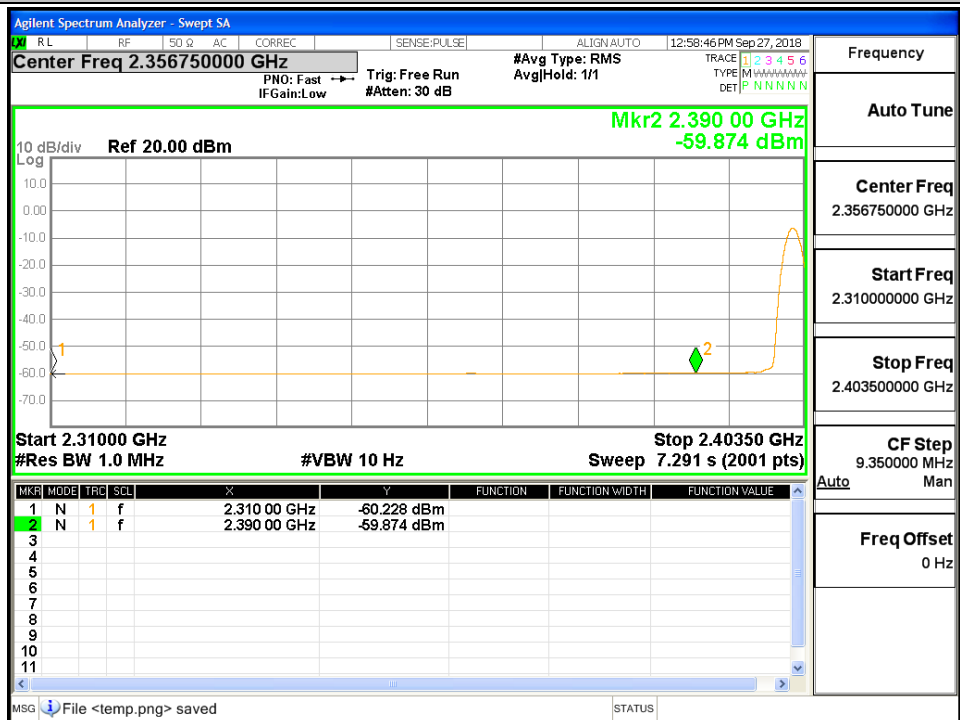
Restrict-band band-edge measurements_2480_AV_2DH5



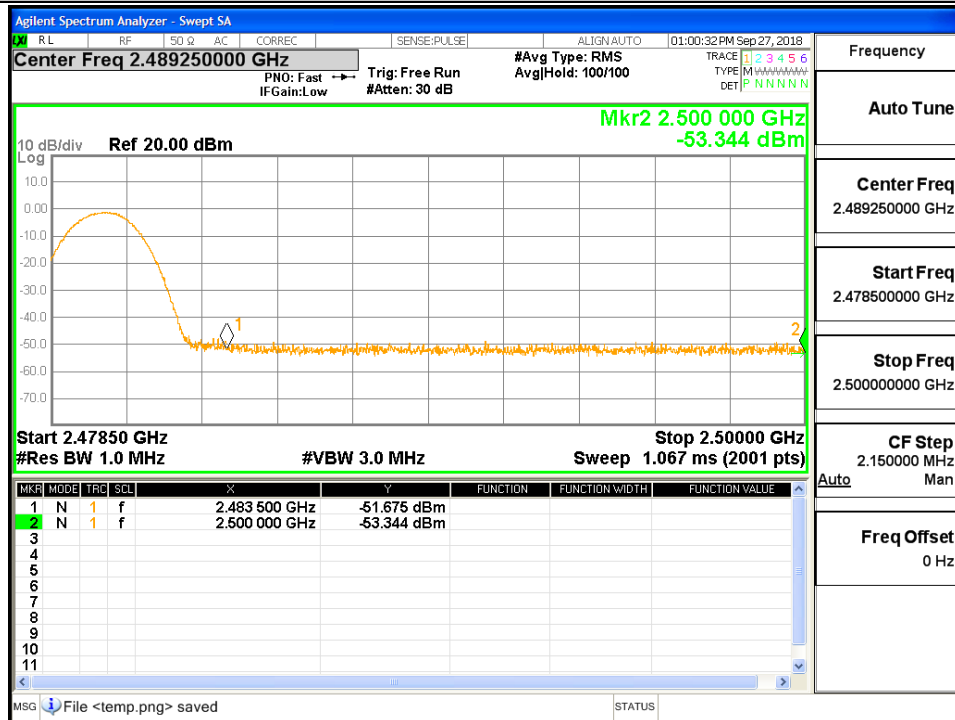
Restrict-band band-edge measurements_2402_PEAK_3DH5



Restrict-band band-edge measurements_2402_AV_3DH5



Restrict-band band-edge measurements_2480_PEAK_3DH5



Restrict-band band-edge measurements_2480_AV_3DH5

