

Appendix A

RF Test Data for BT V4.2 (BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Speaker

Trade Mark: Aitkenson

Test Model: B122

Environmental Conditions

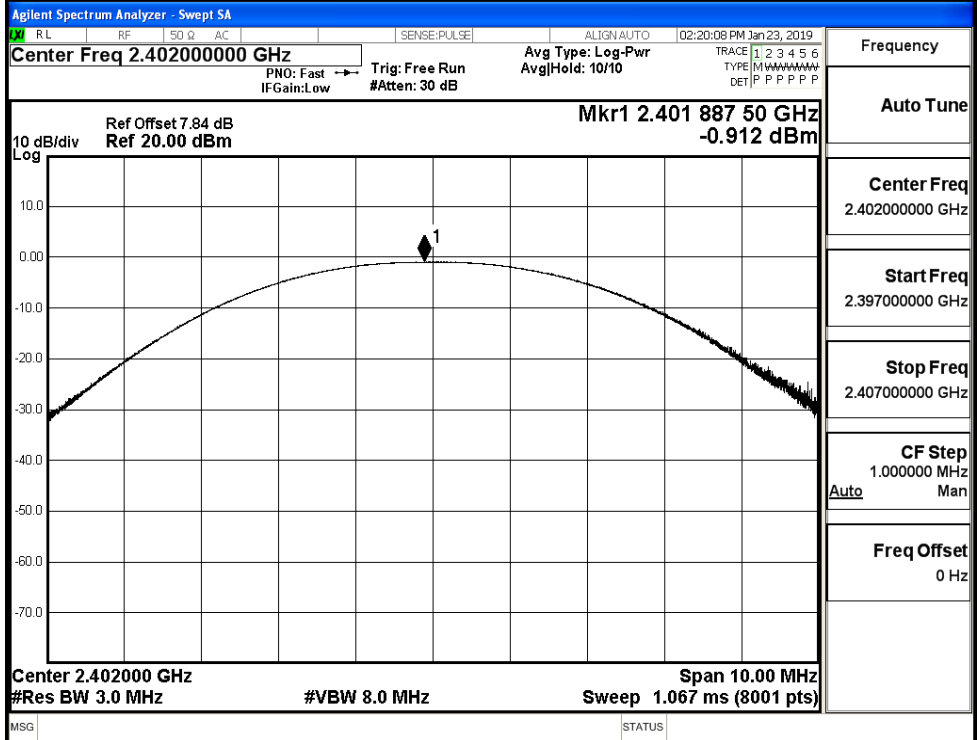
Temperature:	23.1 °C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	Jayden.Zhuo

A.1 Maximum Conducted Peak Output Power

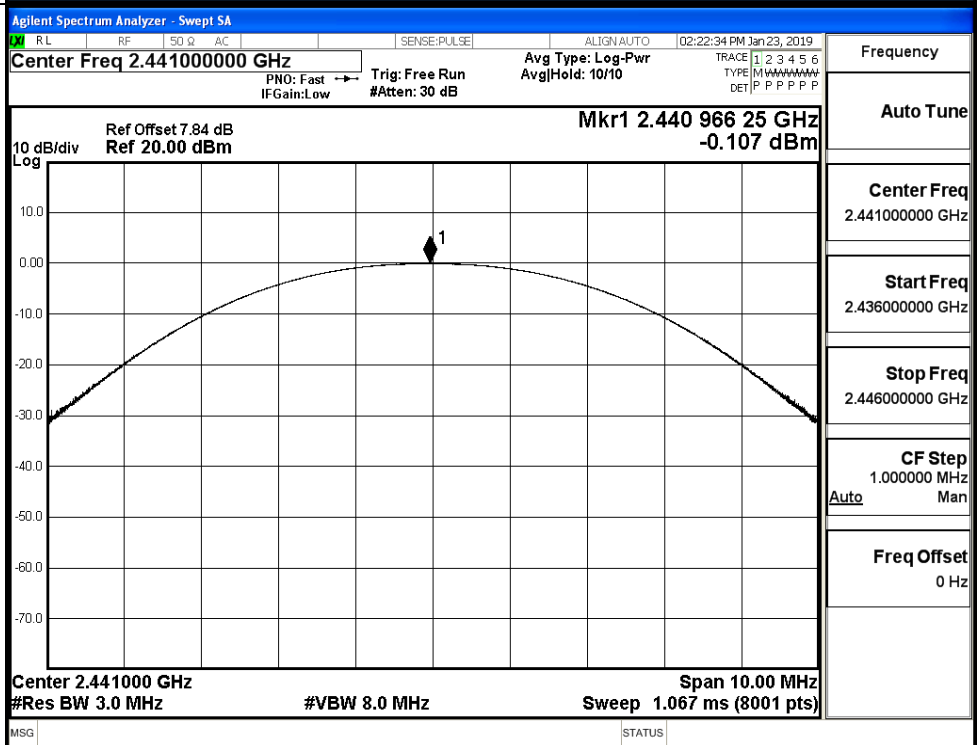
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.912	21	PASS
	MCH	-0.107	21	PASS
	HCH	-1.303	21	PASS
π/4DQPSK	LCH	-1.471	21	PASS
	MCH	-0.698	21	PASS
	HCH	-1.945	21	PASS

Test Graphs

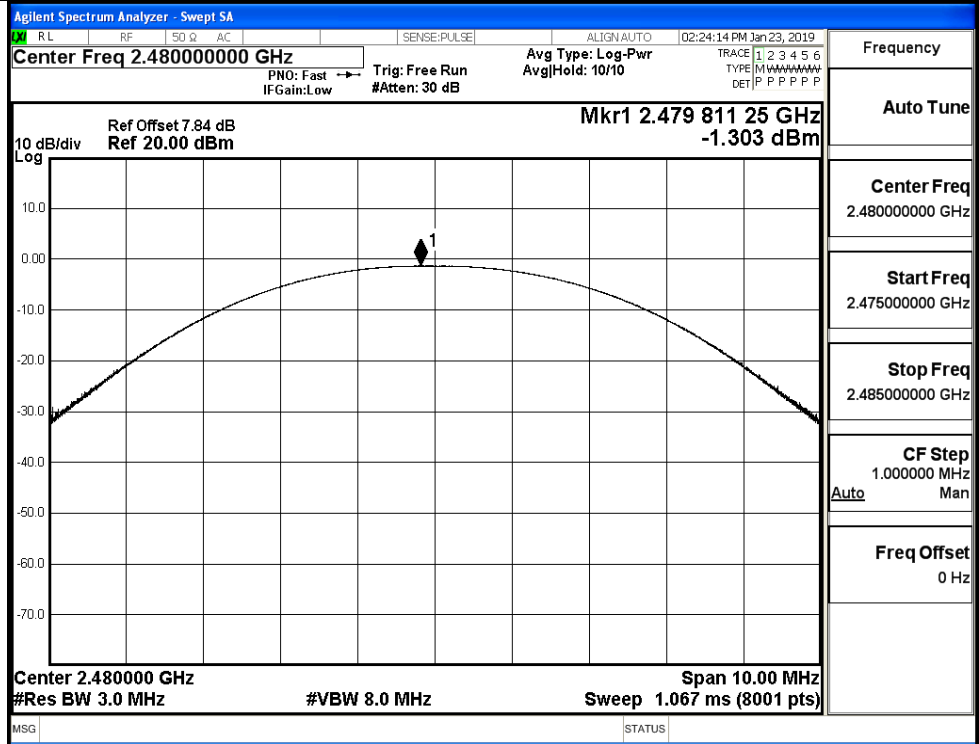
GFSK/LCH



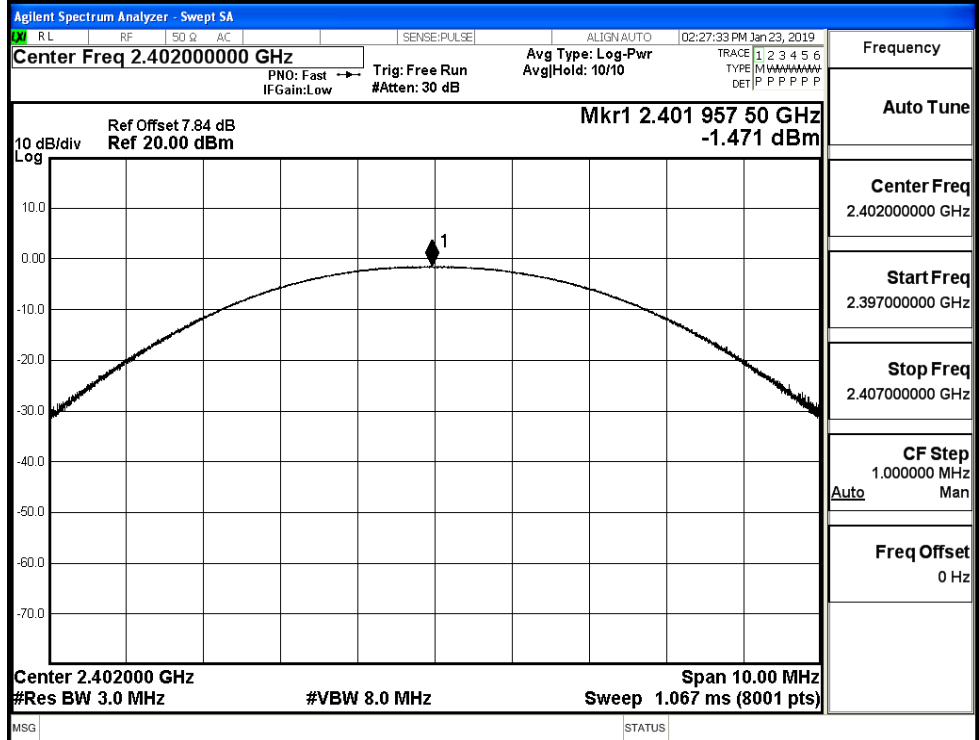
GFSK/MCH

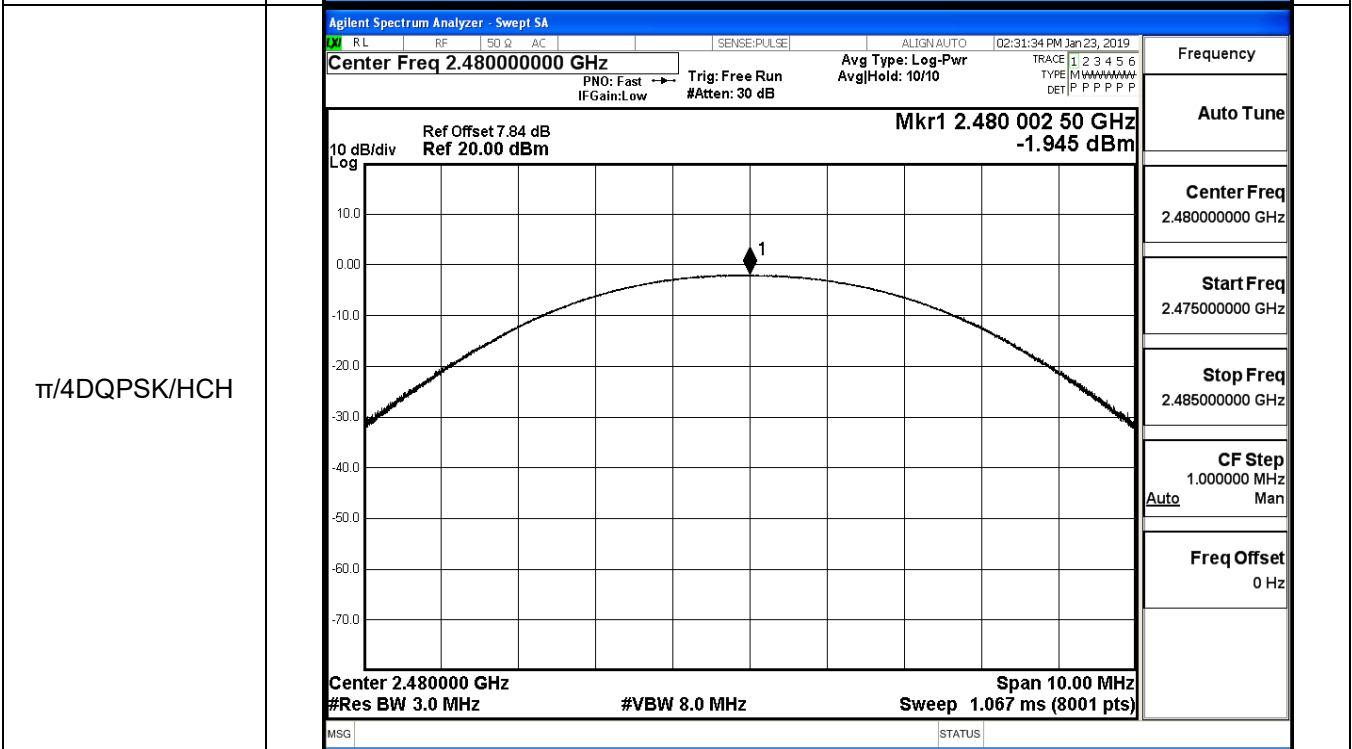
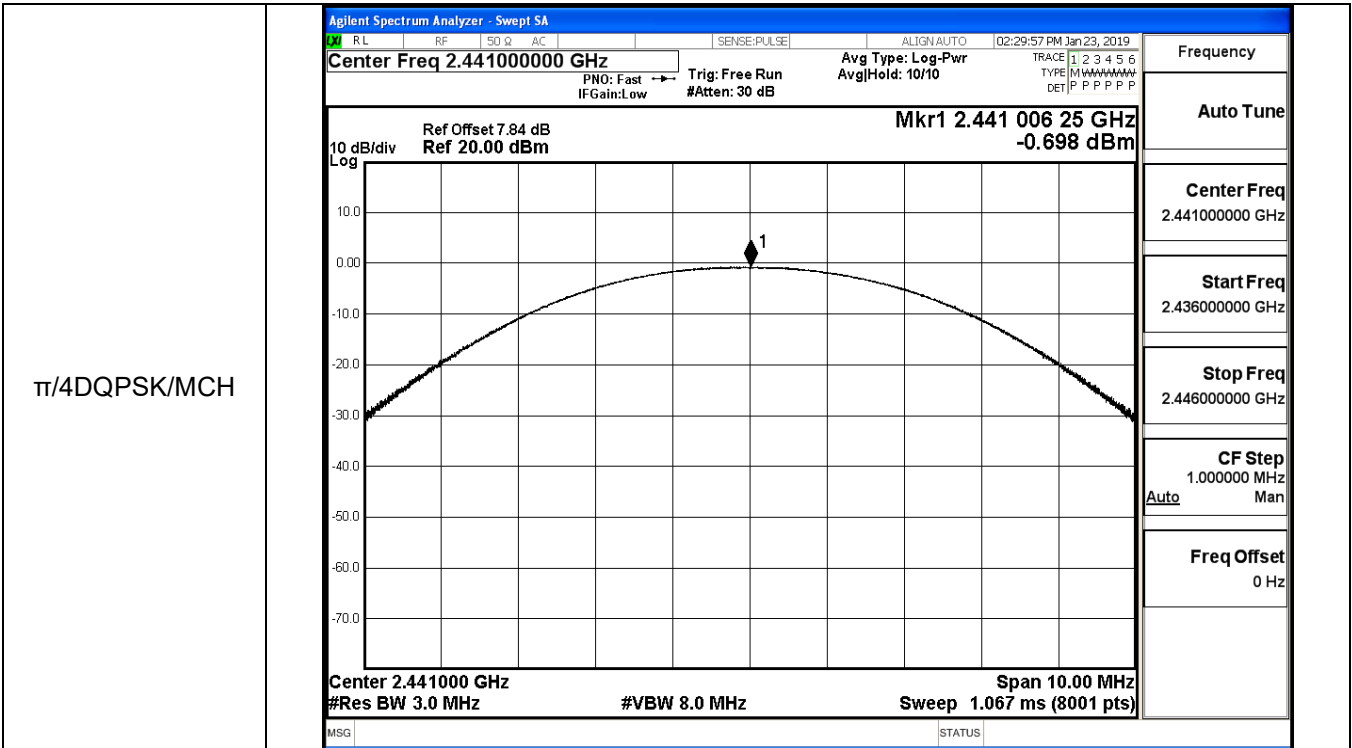


GFSK/HCH



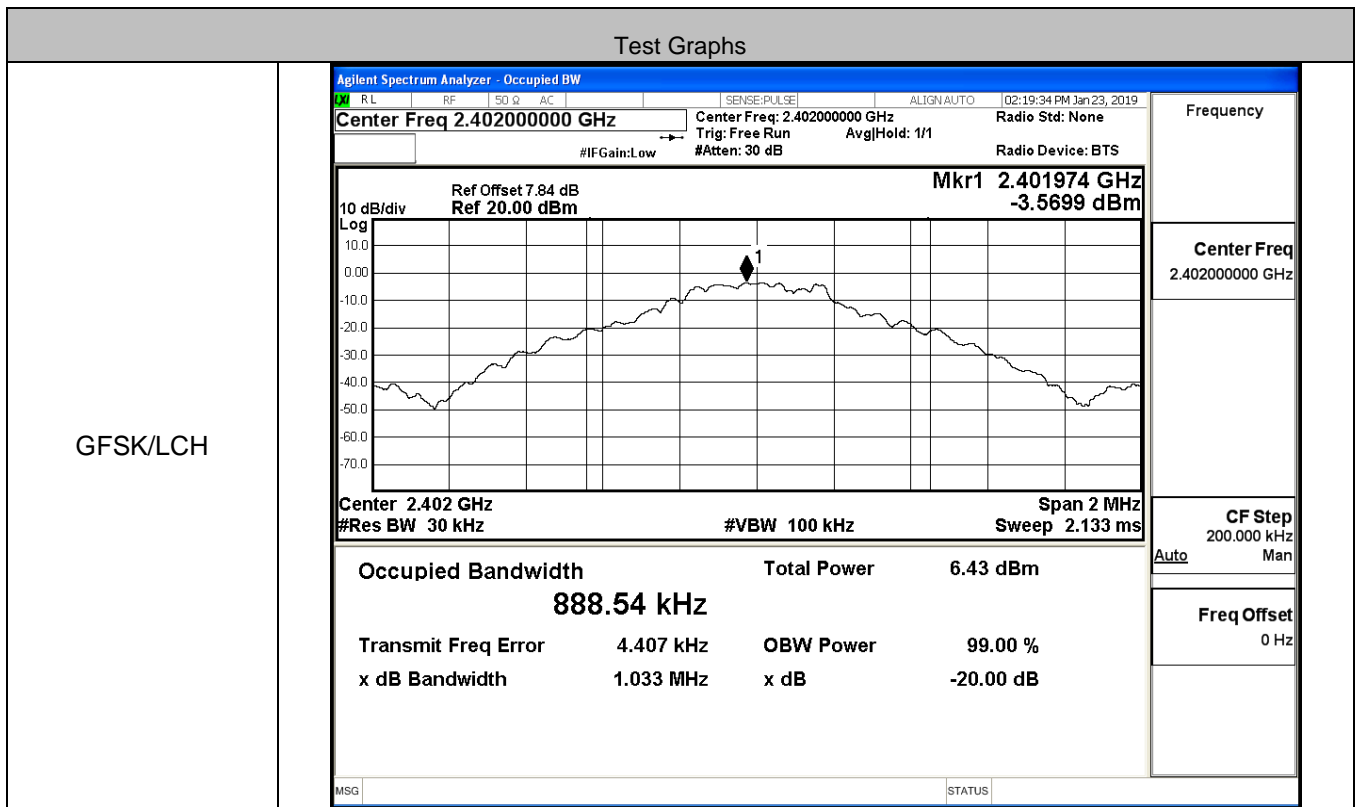
π /4DQPSK/LCH



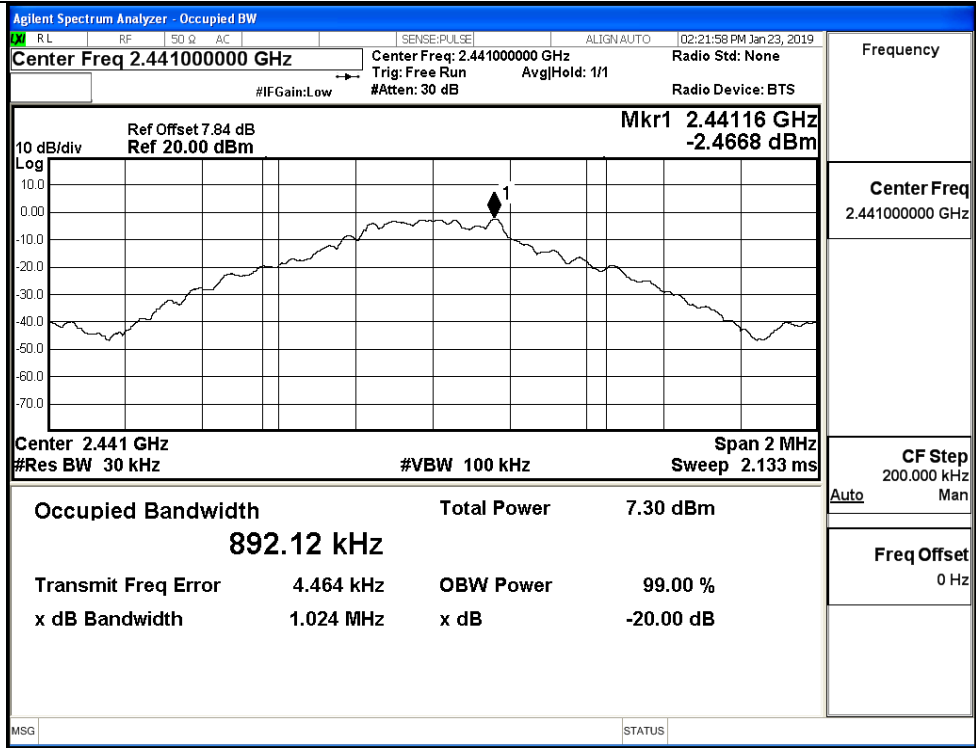


A.2 99% and 20dB Bandwidth

Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.88854	1.033	Not Specified	PASS
	MCH	0.89212	1.024	Not Specified	PASS
	HCH	0.89435	0.9709	Not Specified	PASS
π/4DQPSK	LCH	1.1794	1.295	Not Specified	PASS
	MCH	1.1774	1.315	Not Specified	PASS
	HCH	1.1735	1.311	Not Specified	PASS

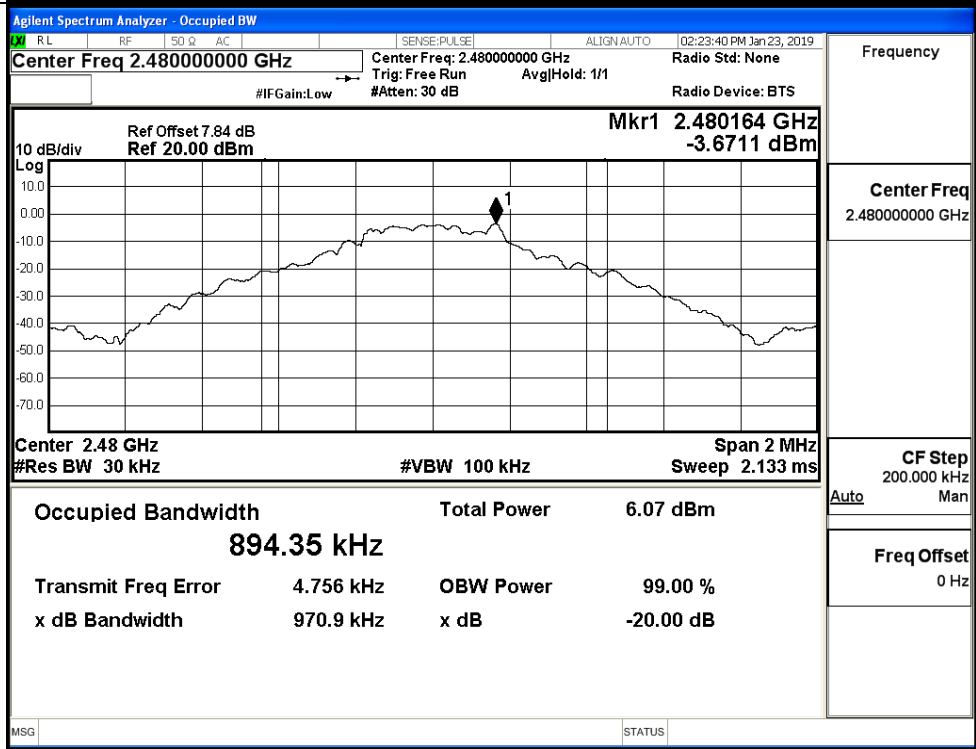


GFSK/MCH

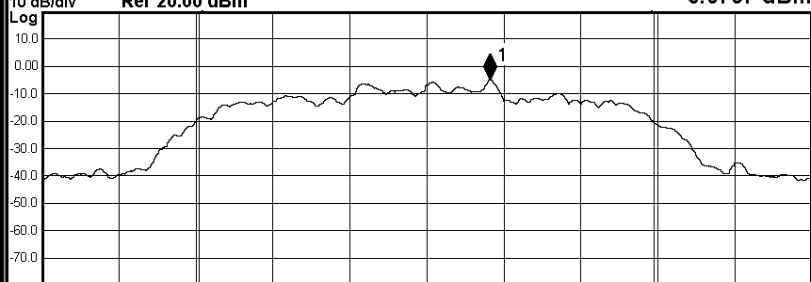
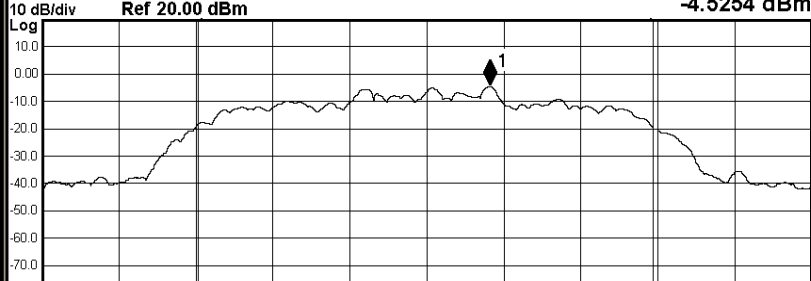


Frequency
2.441000000 GHz
Center Freq
2.441000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

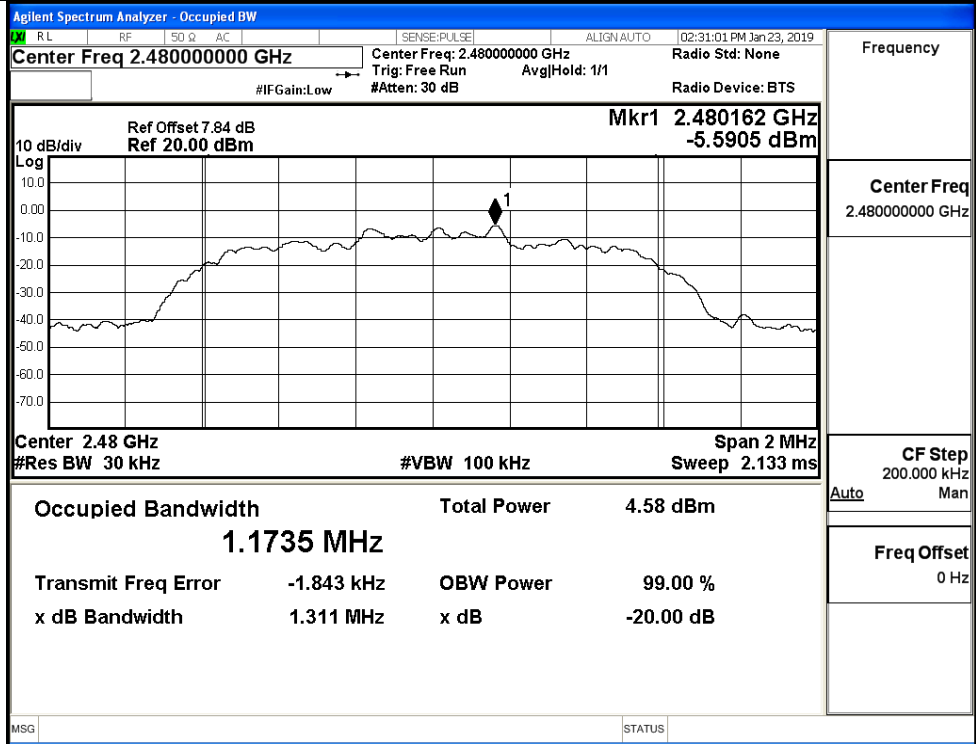
GFSK/HCH



Frequency
2.480000000 GHz
Center Freq
2.480000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

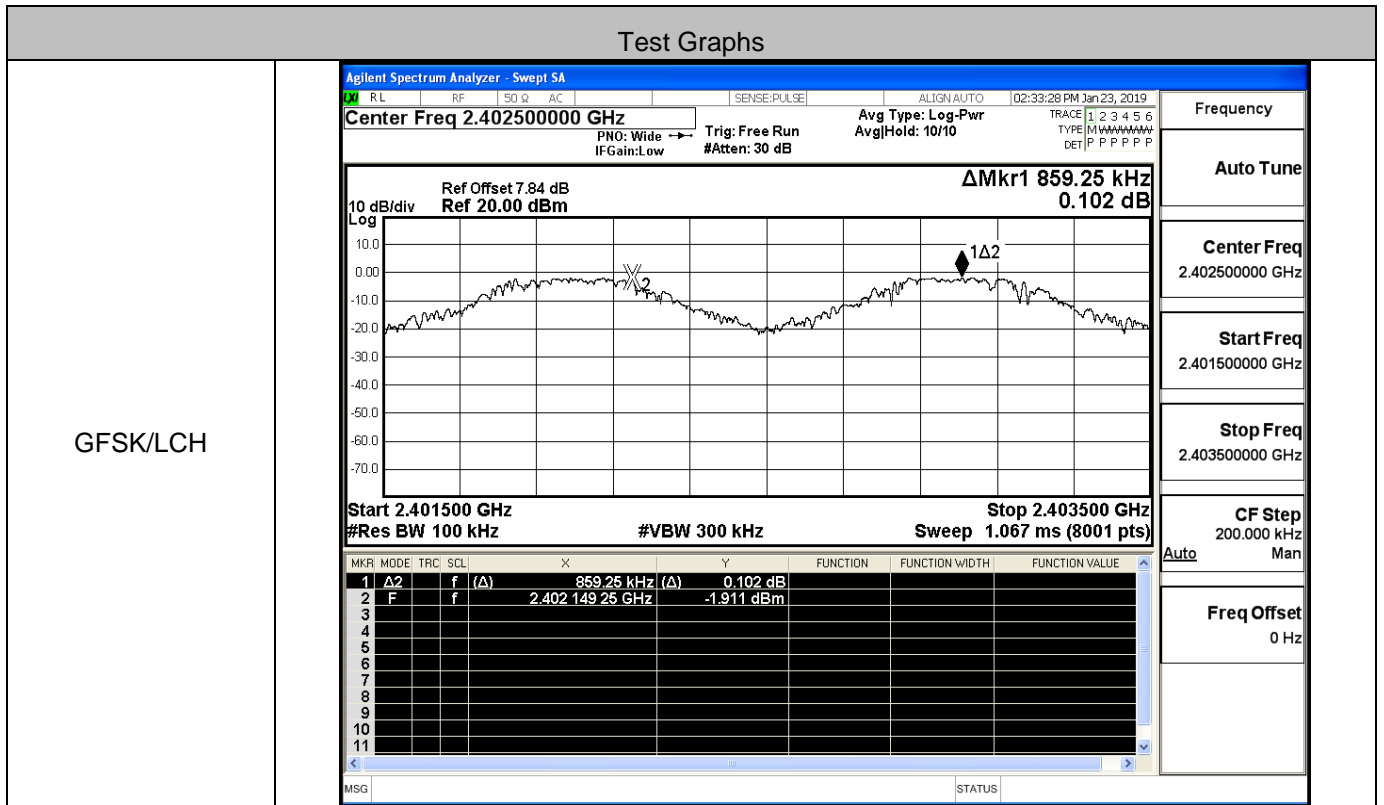
<p style="text-align: center;">π/4DQPSK/LCH</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: x-small; margin: 0;"> <input checked="" type="checkbox"/> RL <input type="checkbox"/> RF <input type="checkbox"/> 50 Ω <input type="checkbox"/> AC <input type="checkbox"/> SENSE:PULSE ALIGN: AUTO 02:26:59 PM Jan 23, 2019 </p> <p style="margin: 0;"> Center Freq 2.40200000 GHz Center Freq: 2.40200000 GHz Radio Std: None Trig: Free Run Avg Hold> 1/1 </p> <p style="font-size: x-small; margin: 0;"> #IFGain: Low #Atten: 30 dB Radio Device: BTS </p> <hr/> <p style="text-align: right; font-weight: bold;">Mkr1 2.402164 GHz -5.0767 dBm</p> <p style="font-size: x-small; margin: 0;"> Ref Offset 7.84 dB Ref 20.00 dBm </p>  <p style="font-size: x-small; margin: 0;"> Center 2.402 GHz Span 2 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms </p> <table style="width: 100%; font-size: small; border-collapse: collapse;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">5.05 dBm</td> </tr> <tr> <td style="text-align: center;">1.1794 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>35 Hz</td> <td>OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.295 MHz</td> <td>x dB -20.00 dB</td> </tr> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	5.05 dBm	1.1794 MHz			Transmit Freq Error	35 Hz	OBW Power 99.00 %	x dB Bandwidth	1.295 MHz	x dB -20.00 dB	<p style="text-align: center;">Frequency</p> <p style="text-align: center;">Center Freq 2.40200000 GHz</p> <p style="text-align: center;">CF Step 200.000 kHz Auto Man</p> <p style="text-align: center;">Freq Offset 0 Hz</p>
Occupied Bandwidth	Total Power	5.05 dBm												
1.1794 MHz														
Transmit Freq Error	35 Hz	OBW Power 99.00 %												
x dB Bandwidth	1.295 MHz	x dB -20.00 dB												
<p style="text-align: center;">π/4DQPSK/MCH</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: x-small; margin: 0;"> <input checked="" type="checkbox"/> RL <input type="checkbox"/> RF <input type="checkbox"/> 50 Ω <input type="checkbox"/> AC <input type="checkbox"/> SENSE:PULSE ALIGN: AUTO 02:29:23 PM Jan 23, 2019 </p> <p style="margin: 0;"> Center Freq 2.44100000 GHz Center Freq: 2.44100000 GHz Radio Std: None Trig: Free Run Avg Hold> 1/1 </p> <p style="font-size: x-small; margin: 0;"> #IFGain: Low #Atten: 30 dB Radio Device: BTS </p> <hr/> <p style="text-align: right; font-weight: bold;">Mkr1 2.441164 GHz -4.5254 dBm</p> <p style="font-size: x-small; margin: 0;"> Ref Offset 7.84 dB Ref 20.00 dBm </p>  <p style="font-size: x-small; margin: 0;"> Center 2.441 GHz Span 2 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms </p> <table style="width: 100%; font-size: small; border-collapse: collapse;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">5.79 dBm</td> </tr> <tr> <td style="text-align: center;">1.1774 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-1.298 kHz</td> <td>OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.315 MHz</td> <td>x dB -20.00 dB</td> </tr> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	5.79 dBm	1.1774 MHz			Transmit Freq Error	-1.298 kHz	OBW Power 99.00 %	x dB Bandwidth	1.315 MHz	x dB -20.00 dB	<p style="text-align: center;">Frequency</p> <p style="text-align: center;">Center Freq 2.44100000 GHz</p> <p style="text-align: center;">CF Step 200.000 kHz Auto Man</p> <p style="text-align: center;">Freq Offset 0 Hz</p>
Occupied Bandwidth	Total Power	5.79 dBm												
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Transmit Freq Error	-1.298 kHz	OBW Power 99.00 %												
x dB Bandwidth	1.315 MHz	x dB -20.00 dB												

$\pi/4$ DQPSK/HCH

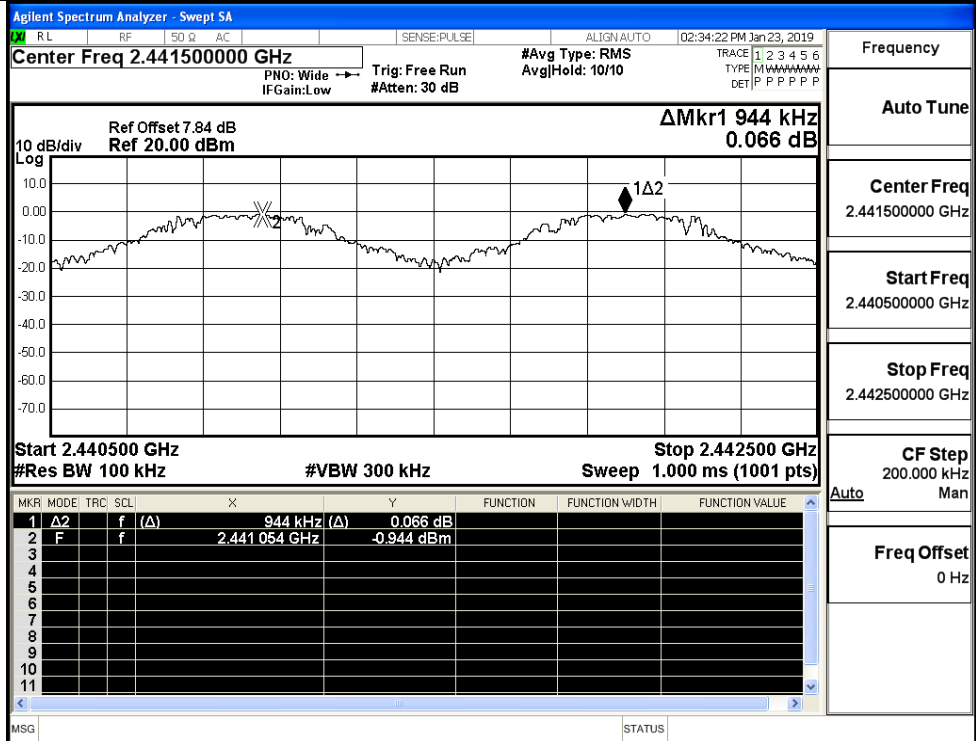


A.3 Carrier Frequency Separation

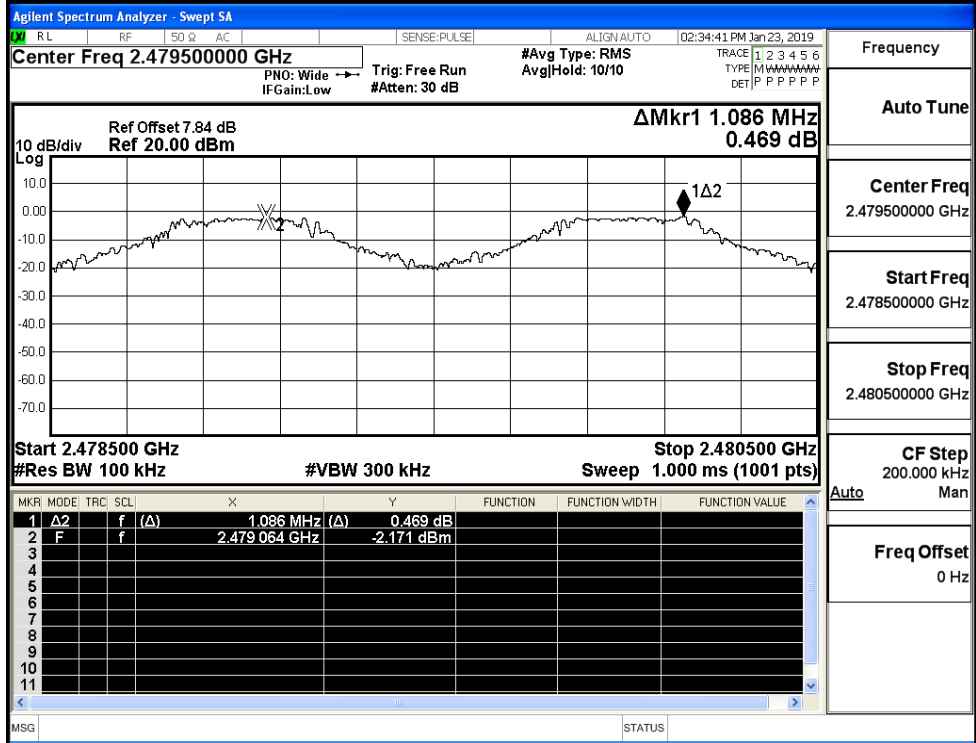
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.859	0.689	PASS
	MCH	0.944	0.689	PASS
	HCH	1.086	0.689	PASS
π/4DQPSK	LCH	0.972	0.877	PASS
	MCH	0.950	0.877	PASS
	HCH	1.146	0.877	PASS



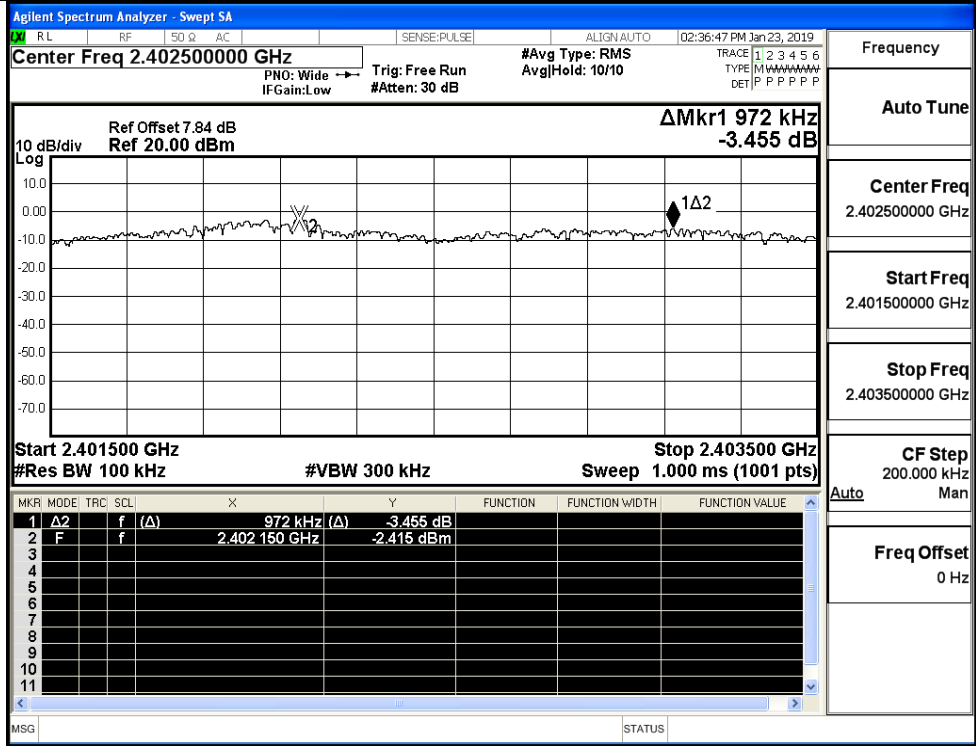
GFSK/MCH



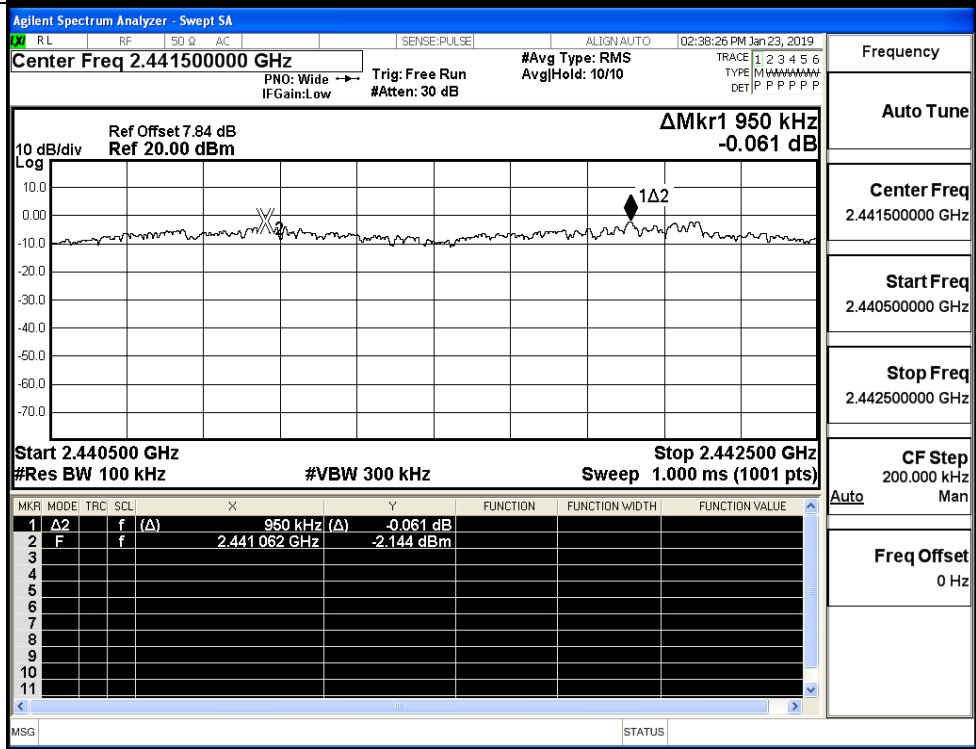
GFSK/HCH



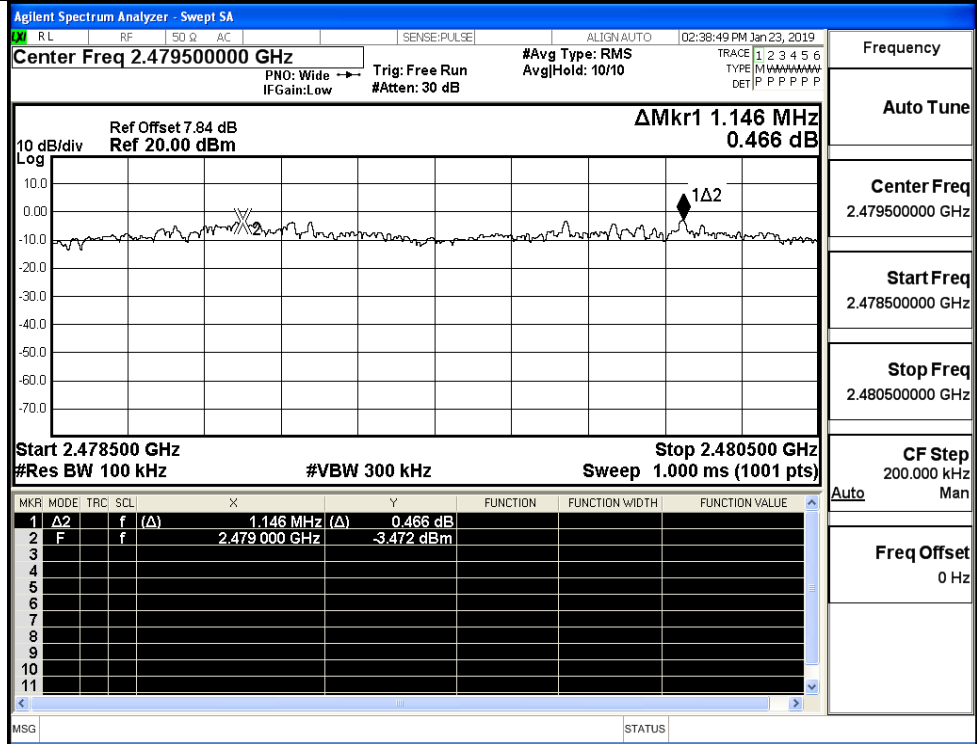
π/4DQPSK/LCH



π/4DQPSK/MCH



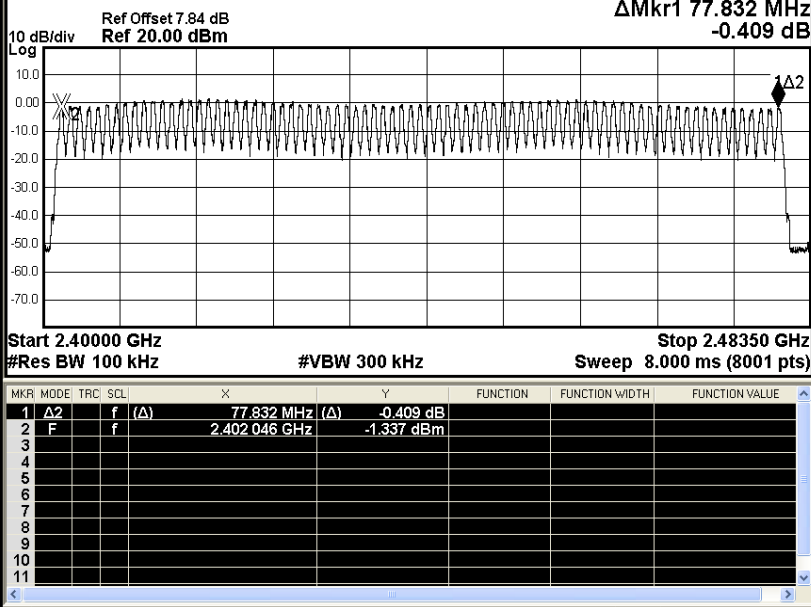
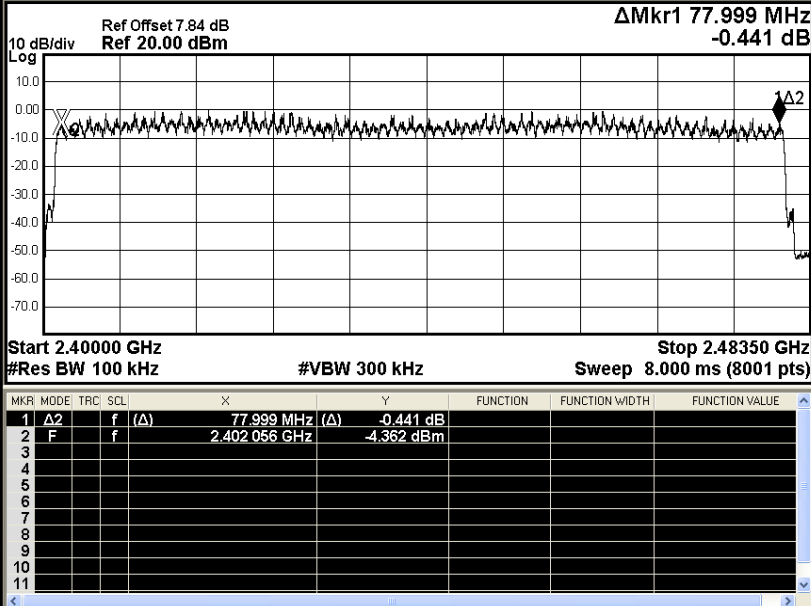
$\pi/4$ DQPSK/HCH



A.4 Hopping Channel Number

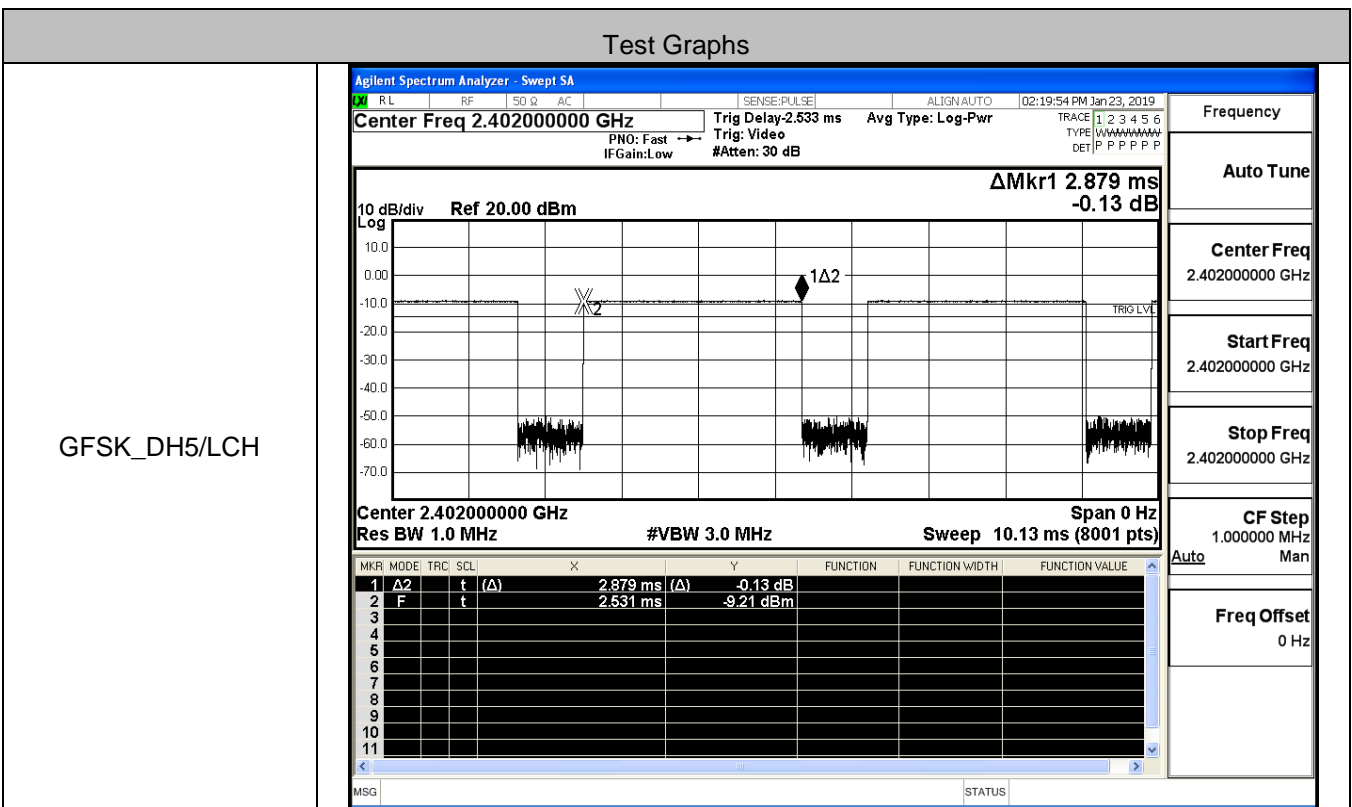
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS
$\pi/4$ DQPSK	Hop	79	>=15	PASS

Test Graphs

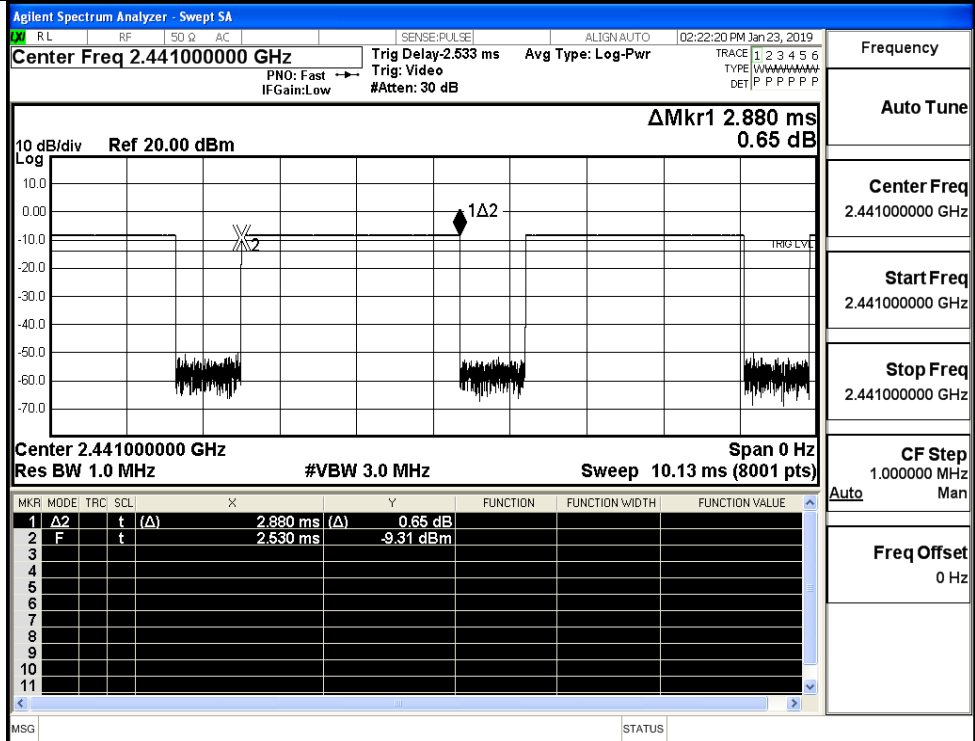
GFSK/Hop	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Swept SA</p> <p style="font-size: x-small; margin: 0;">RL RF 50 Q AC SENSE:PULSE ALIGN:AUTO 02:36:01 PM Jan 23, 2019</p> <p style="font-size: small; margin: 0;">Center Freq 2.441750000 GHz #Avg Type: RMS PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB AvgHold: 10/10</p> <p style="font-size: x-small; margin: 0;">TRACE 1 2 3 4 5 6 TYPE M W W W W W W W W DET P P P P P P P</p> <p style="text-align: right; font-size: small; margin: 0;">Frequency Auto Tune</p> <p style="text-align: right; font-size: small; margin: 0;">Center Freq 2.441750000 GHz</p> <p style="text-align: right; font-size: small; margin: 0;">Start Freq 2.400000000 GHz</p> <p style="text-align: right; font-size: small; margin: 0;">Stop Freq 2.483500000 GHz</p> <p style="text-align: right; font-size: small; margin: 0;">CF Step 8.350000 MHz Auto Man</p> <p style="text-align: right; font-size: small; margin: 0;">Freq Offset 0 Hz</p>  <table border="1" style="font-size: x-small; width: 100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <tr> <td>1</td> <td>Δ2</td> <td>f</td> <td>(Δ)</td> <td>77.832 MHz (Δ)</td> <td>-0.409 dB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.402046 GHz</td> <td>-1.337 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ 2	f	(Δ)	77.832 MHz (Δ)	-0.409 dB				2	F	f		2.402046 GHz	-1.337 dBm			
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
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$\pi/4$ DQPSK/Hop	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Swept SA</p> <p style="font-size: x-small; margin: 0;">RL RF 50 Q AC SENSE:PULSE ALIGN:AUTO 02:41:18 PM Jan 23, 2019</p> <p style="font-size: small; margin: 0;">Center Freq 2.441750000 GHz #Avg Type: RMS PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB AvgHold: 10/10</p> <p style="font-size: x-small; margin: 0;">TRACE 1 2 3 4 5 6 TYPE M W W W W W W W W DET P P P P P P P</p> <p style="text-align: right; font-size: small; margin: 0;">Frequency Auto Tune</p> <p style="text-align: right; font-size: small; margin: 0;">Center Freq 2.441750000 GHz</p> <p style="text-align: right; font-size: small; margin: 0;">Start Freq 2.400000000 GHz</p> <p style="text-align: right; font-size: small; margin: 0;">Stop Freq 2.483500000 GHz</p> <p style="text-align: right; font-size: small; margin: 0;">CF Step 8.350000 MHz Auto Man</p> <p style="text-align: right; font-size: small; margin: 0;">Freq Offset 0 Hz</p>  <table border="1" style="font-size: x-small; width: 100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <tr> <td>1</td> <td>Δ2</td> <td>f</td> <td>(Δ)</td> <td>77.999 MHz (Δ)</td> <td>-0.441 dB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.402056 GHz</td> <td>-4.362 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ 2	f	(Δ)	77.999 MHz (Δ)	-0.441 dB				2	F	f		2.402056 GHz	-4.362 dBm			
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	Δ 2	f	(Δ)	77.999 MHz (Δ)	-0.441 dB																							
2	F	f		2.402056 GHz	-4.362 dBm																							

A.5 Dwell Time

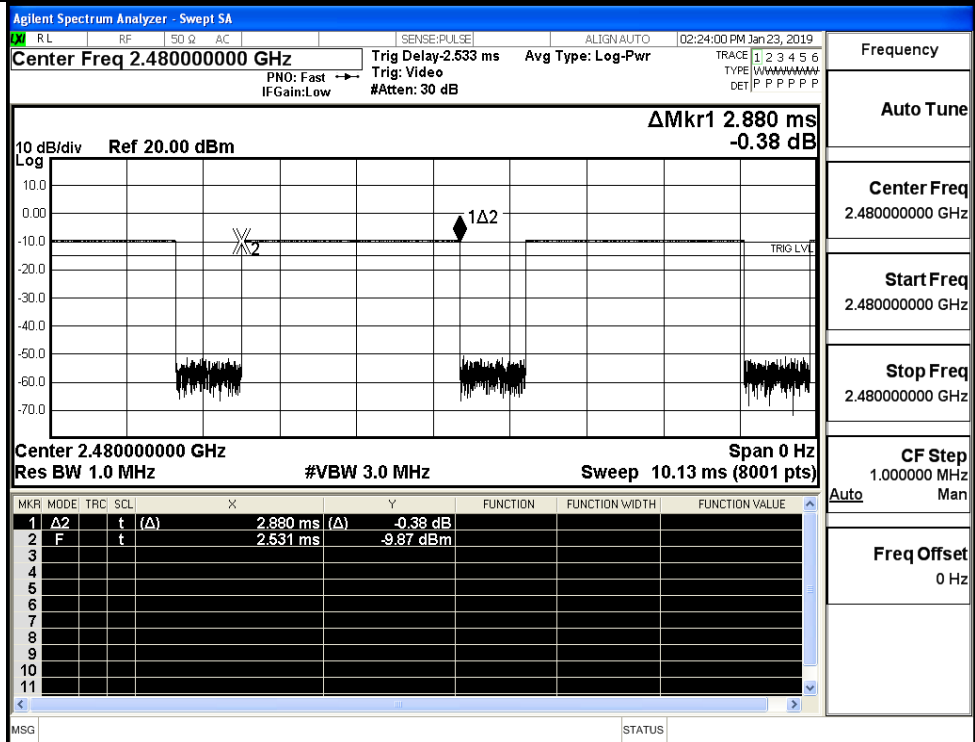
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7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



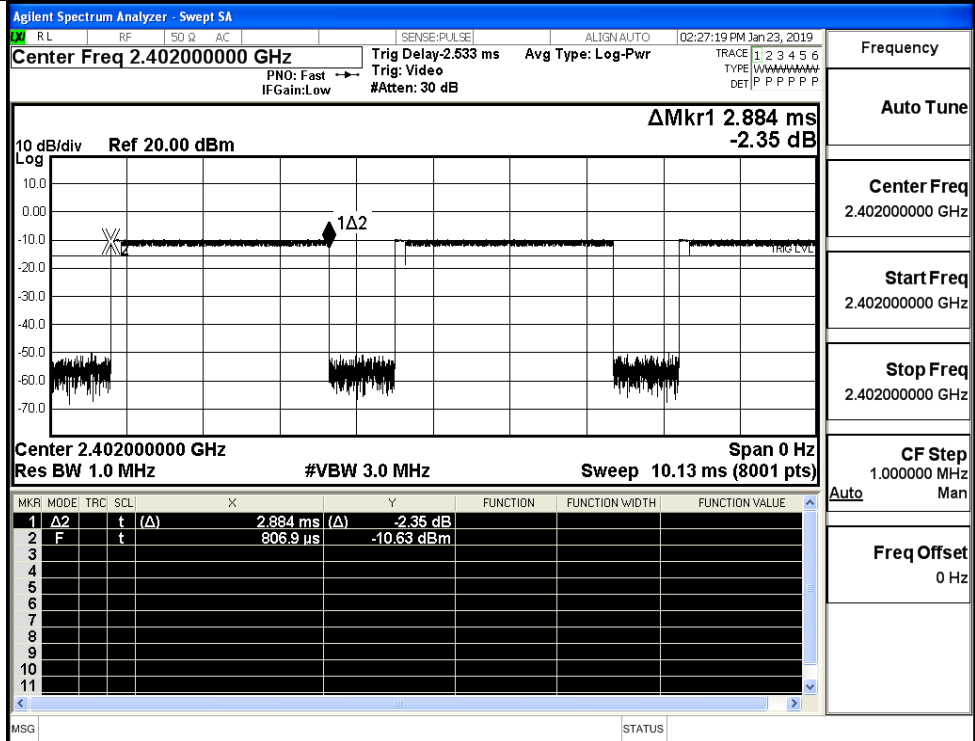
GFSK_DH5/MCH



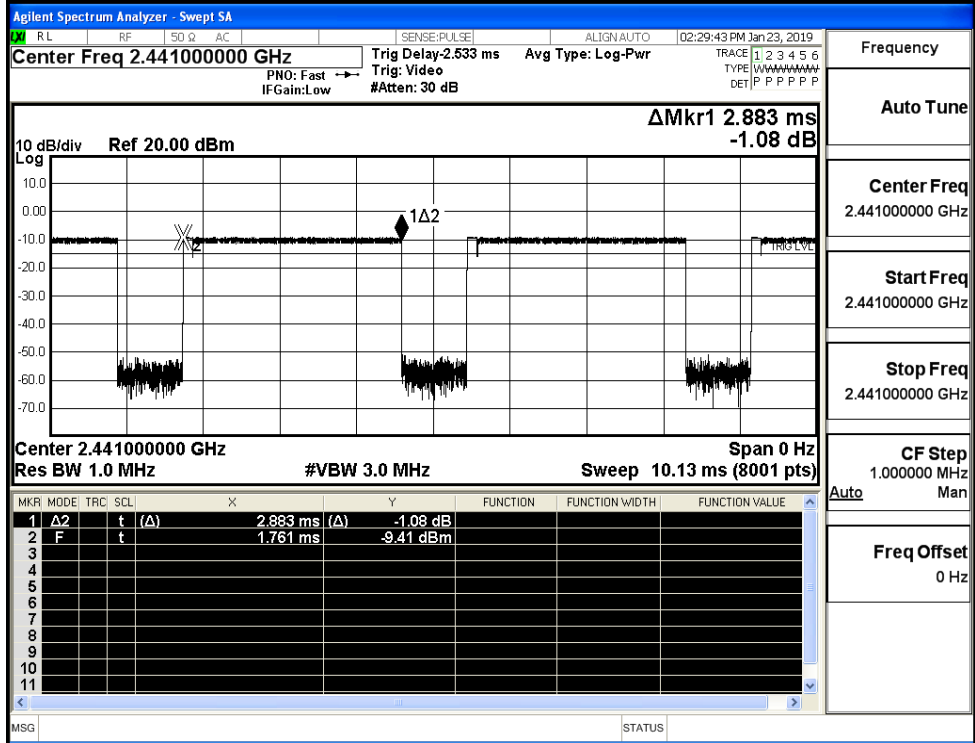
GFSK_DH5/HCH



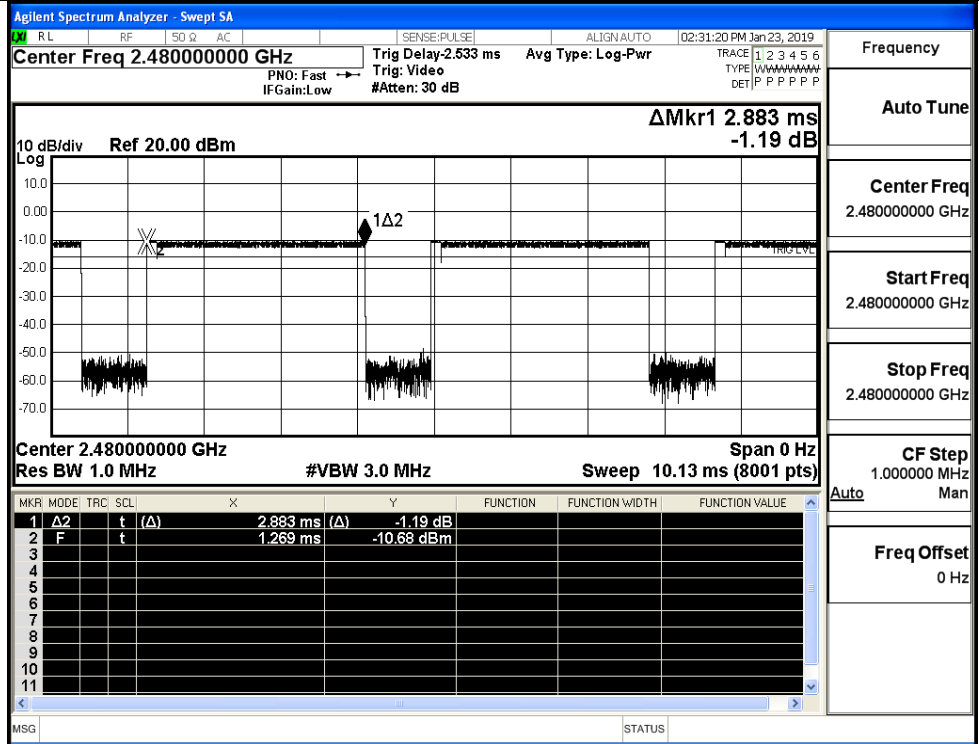
$\pi/4$ DQPSK
_2DH5/LCH



$\pi/4$ DQPSK
_2DH5/MCH



$\pi/4$ DQPSK
_2DH5/HCH

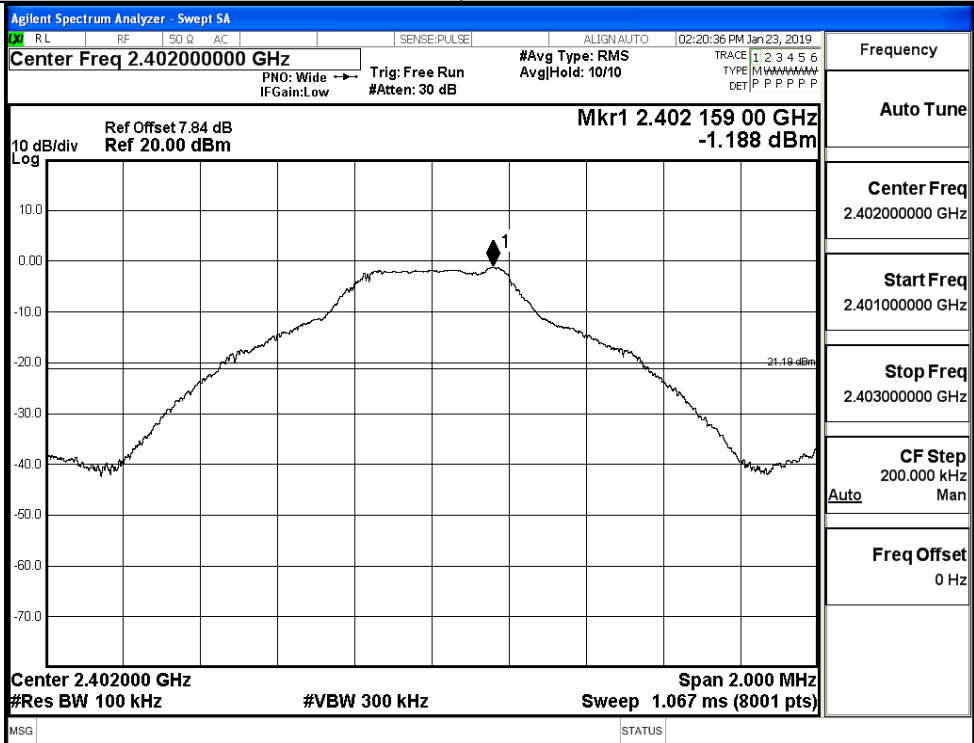


A.6 RF Conducted Spurious Emissions

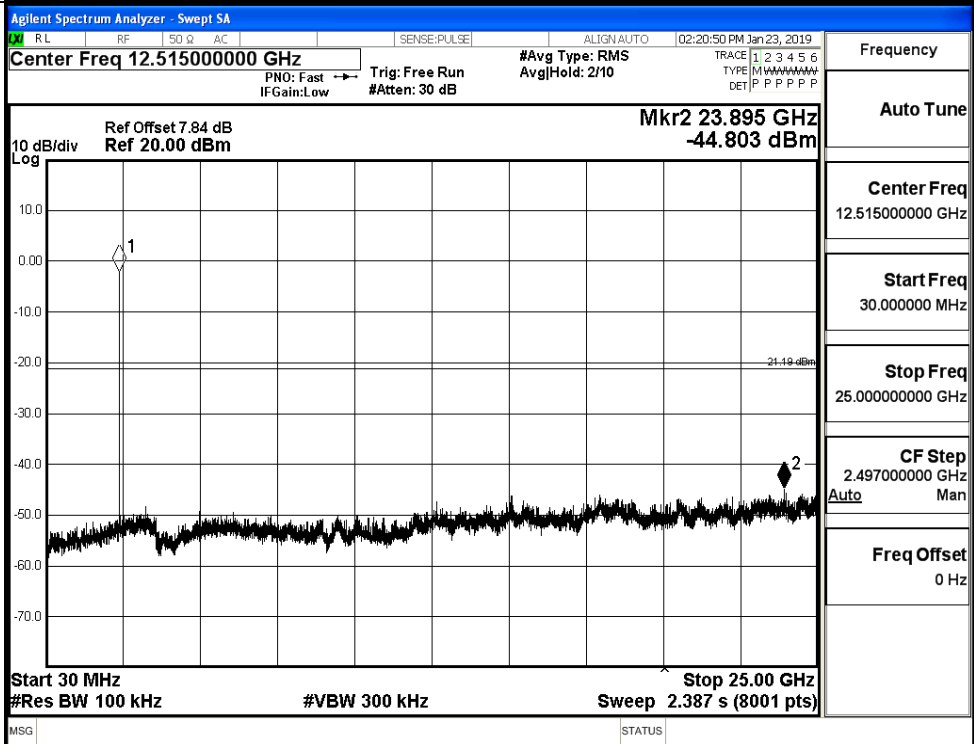
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.188	-44.803	-21.188	PASS
	MCH	-0.415	-45.607	-20.415	PASS
	HCH	-1.567	-45.630	-21.567	PASS
$\pi/4$ DQPSK	LCH	-2.241	-45.656	-22.241	PASS
	MCH	-1.486	-43.106	-21.486	PASS
	HCH	-2.667	-45.373	-22.667	PASS

GFSK_LCH_Graphs

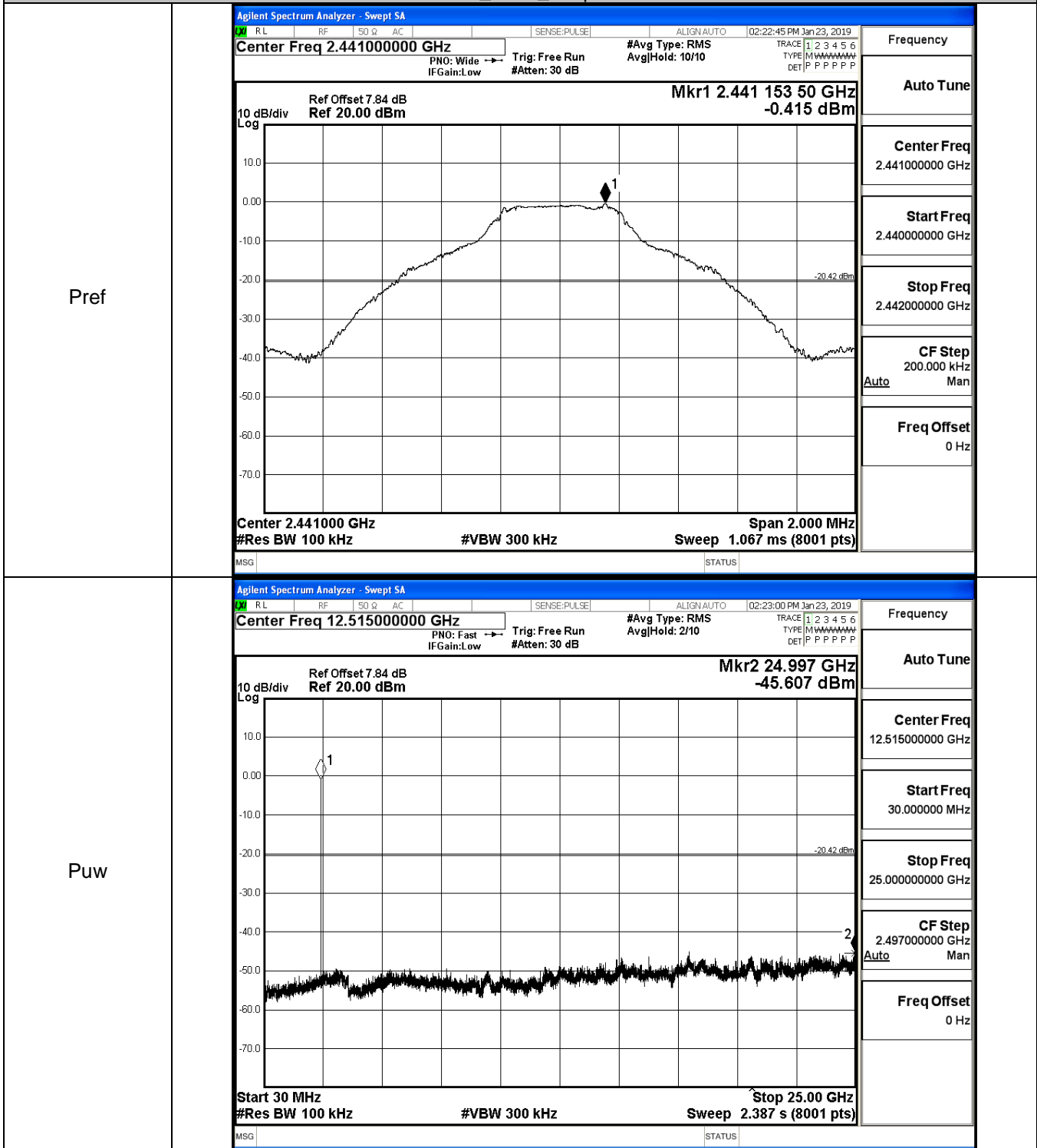
Pref



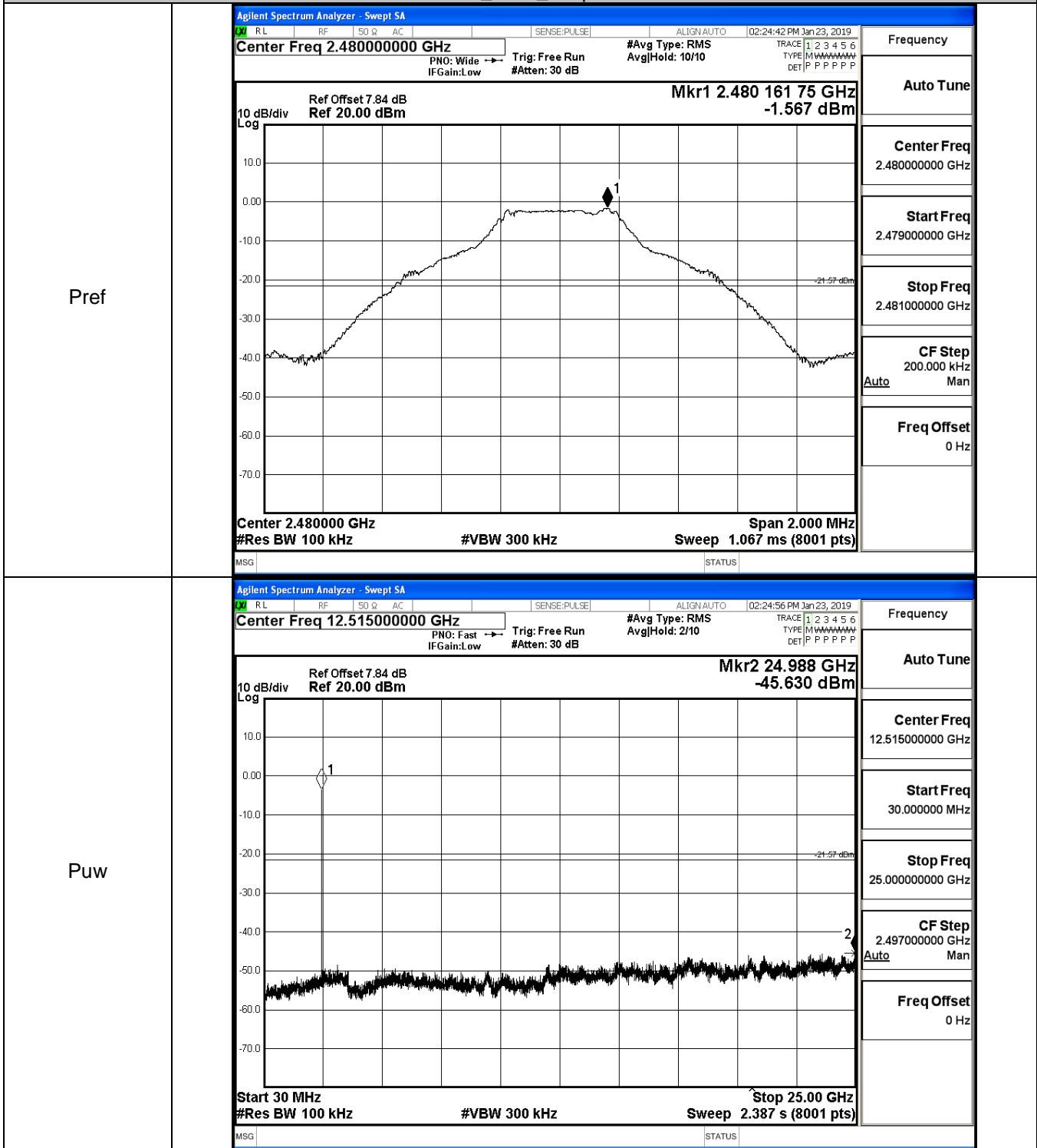
Puw



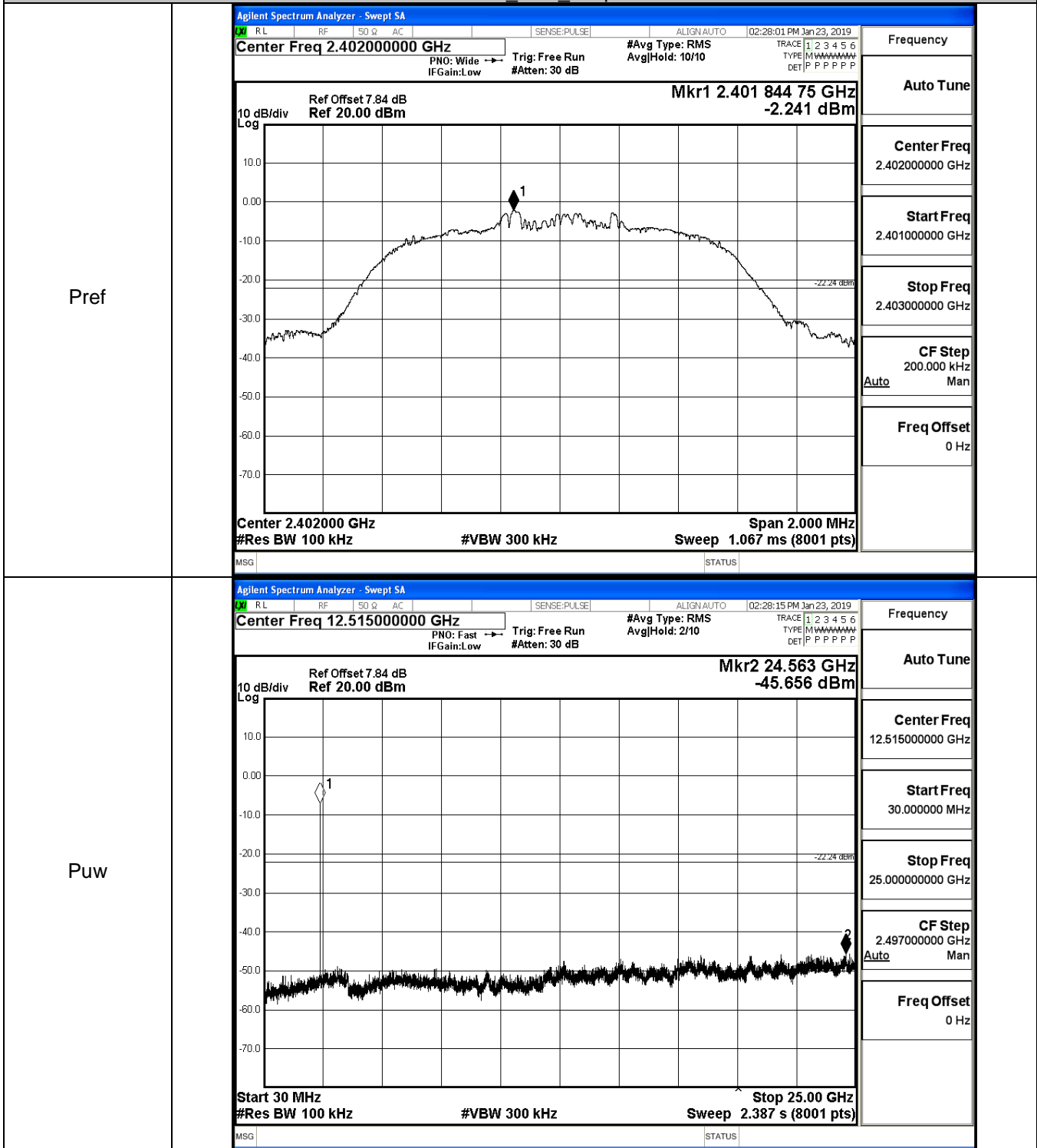
GFSK_MCH_Graphs



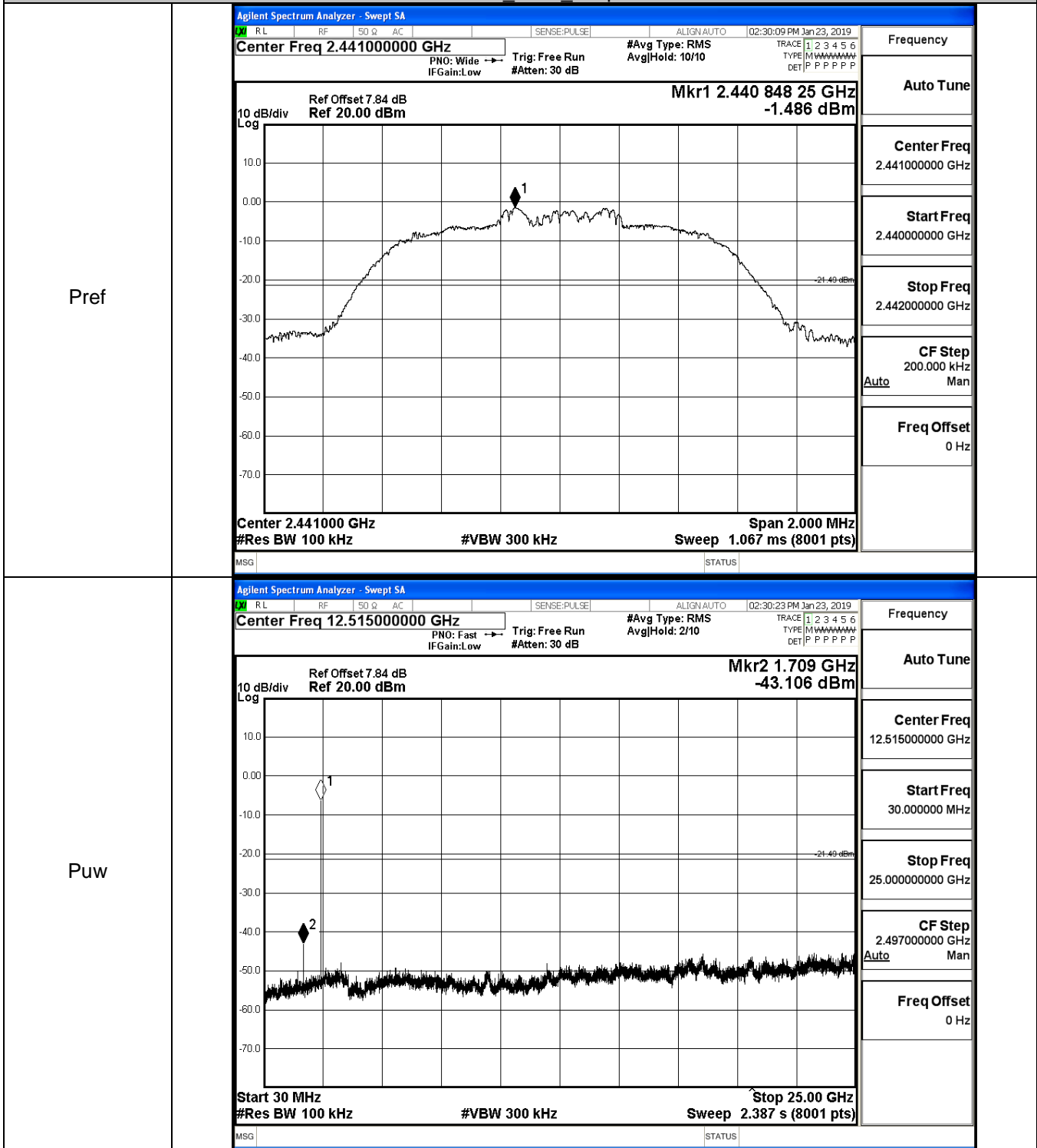
GFSK_HCH_Graphs



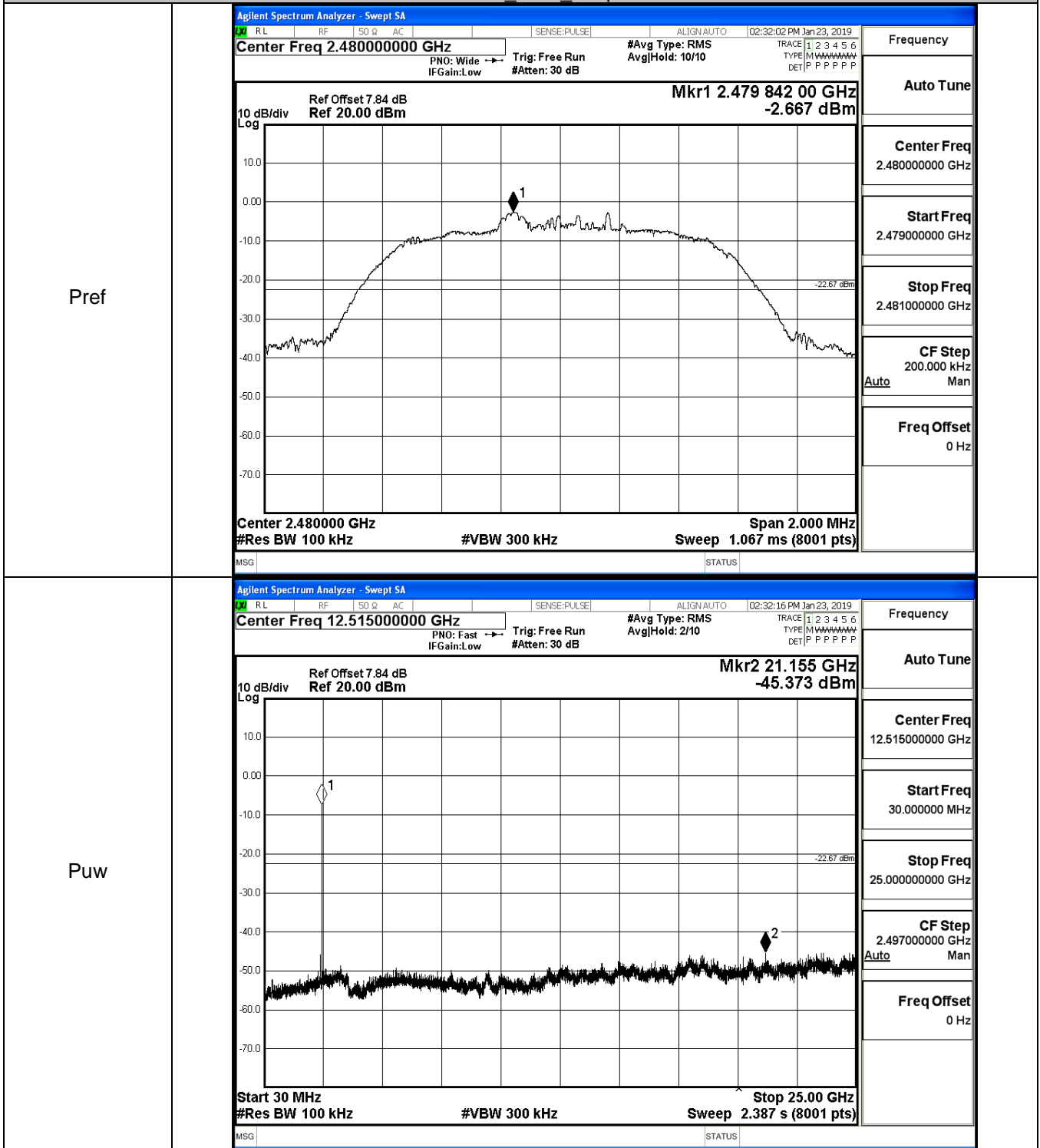
$\pi/4$ DQPSK LCH_Graphs



$\pi/4$ DQPSK_MCH_Graphs



$\pi/4$ DQPSK_HCH_Graphs



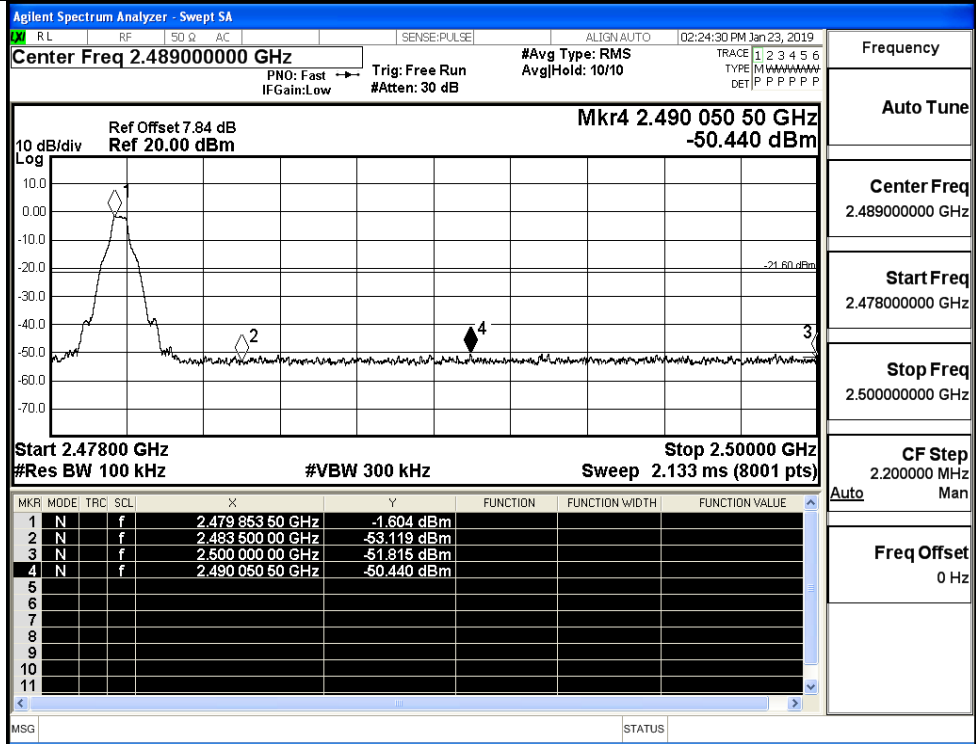
A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-1.307	Off	-50.701	-21.31	PASS
			1.336	On	-50.112	-18.66	PASS
	HCH	2480	-1.604	Off	-50.440	-21.6	PASS
			1.009	On	-49.313	-18.99	PASS
$\pi/4$ DQPSK	LCH	2402	-2.181	Off	-50.701	-22.18	PASS
			-0.045	On	-50.221	-20.05	PASS
	HCH	2480	-2.871	Off	-50.056	-22.87	PASS
			-0.407	On	-49.347	-20.41	PASS

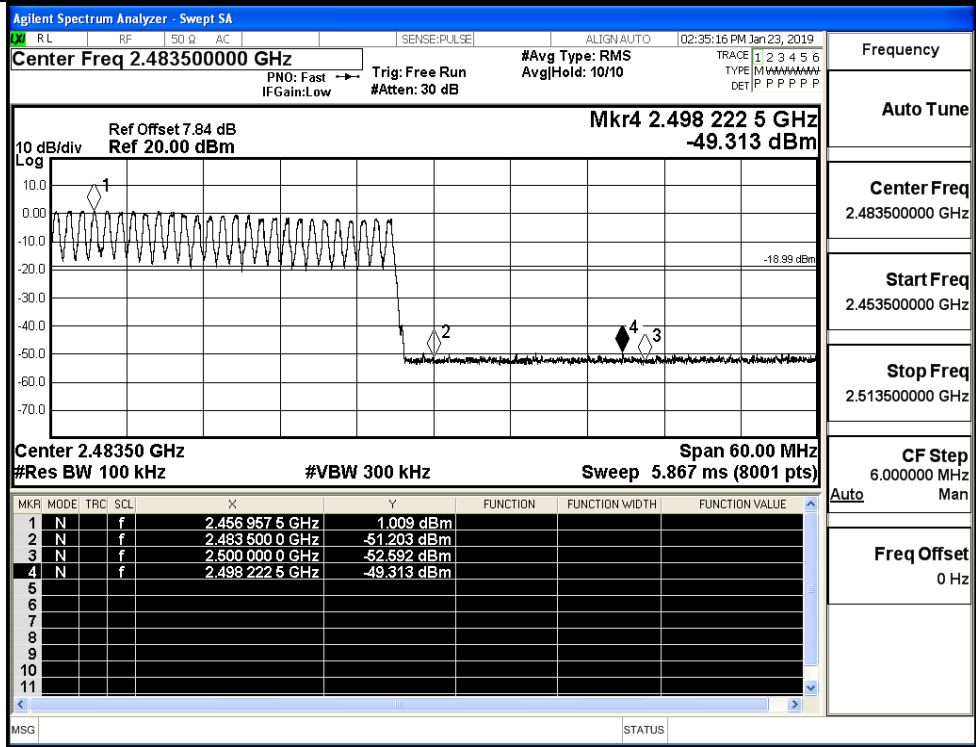
Test Graphs

GFSK/LCH/No Hop	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.35700000 GHz</p> <p>Ref Offset 7.84 dB Ref 20.00 dBm</p> <p>Mkr4 2.379 913 GHz -50.701 dBm</p> <p>Start 2.31000 GHz Stop 2.40400 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 9.067 ms (8001 pts)</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td></td> <td>2.402 026 GHz</td> <td>-1.307 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td></td> <td>2.400 000 GHz</td> <td>-52.955 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td></td> <td>2.390 000 GHz</td> <td>-53.179 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.379 913 GHz</td> <td>-50.701 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f		2.402 026 GHz	-1.307 dBm				2	N	f		2.400 000 GHz	-52.955 dBm				3	N	f		2.390 000 GHz	-53.179 dBm				4	N	f		2.379 913 GHz	-50.701 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.357000000 GHz</p> <p>Start Freq 2.310000000 GHz</p> <p>Stop Freq 2.404000000 GHz</p> <p>CF Step 9.400000 MHz</p> <p>Freq Offset 0 Hz</p>
	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																						
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GFSK/LCH/Hop	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.40000000 GHz</p> <p>Ref Offset 7.84 dB Ref 20.00 dBm</p> <p>Mkr4 2.383 170 0 GHz -50.112 dBm</p> <p>Center 2.40000 GHz Span 60.00 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 5.867 ms (8001 pts)</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td></td> <td>2.420 167 5 GHz</td> <td>1.336 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td></td> <td>2.400 000 0 GHz</td> <td>-53.222 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td></td> <td>2.390 000 0 GHz</td> <td>-51.933 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.383 170 0 GHz</td> <td>-50.112 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f		2.420 167 5 GHz	1.336 dBm				2	N	f		2.400 000 0 GHz	-53.222 dBm				3	N	f		2.390 000 0 GHz	-51.933 dBm				4	N	f		2.383 170 0 GHz	-50.112 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.400000000 GHz</p> <p>Start Freq 2.370000000 GHz</p> <p>Stop Freq 2.430000000 GHz</p> <p>CF Step 6.000000 MHz</p> <p>Freq Offset 0 Hz</p>
	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																						
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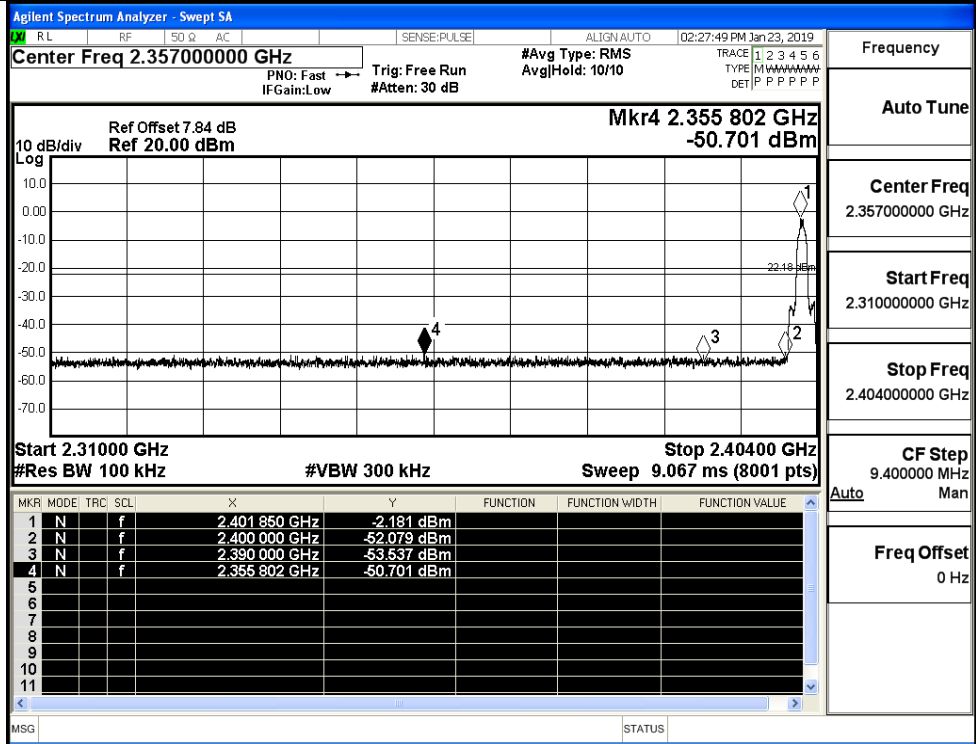
GFSK/HCH/No Hop



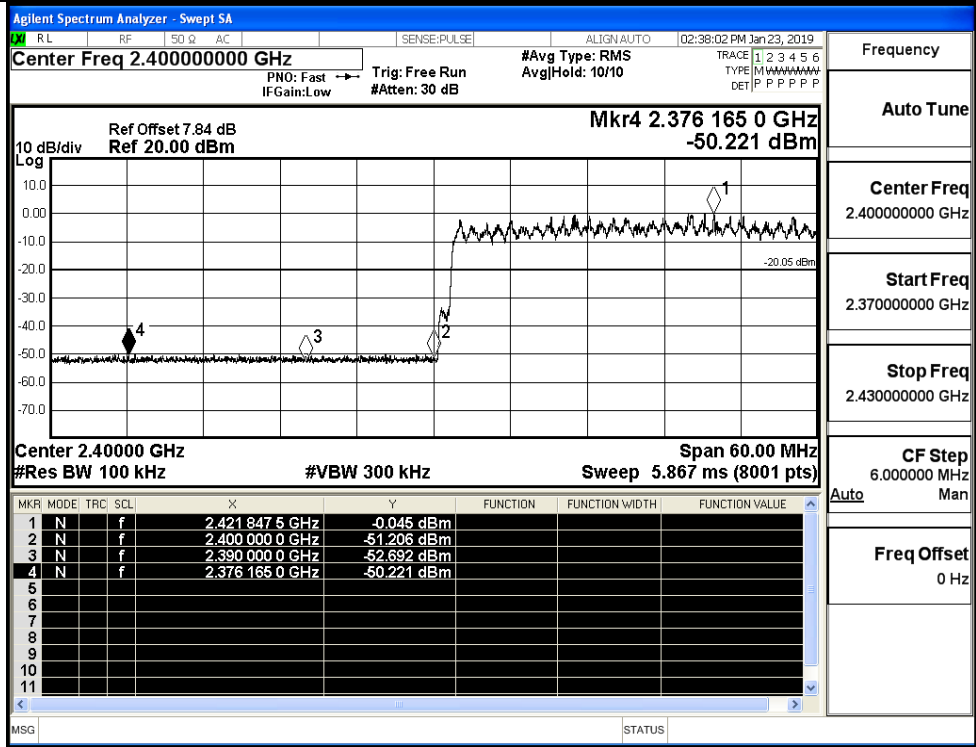
GFSK/HCH/Hop



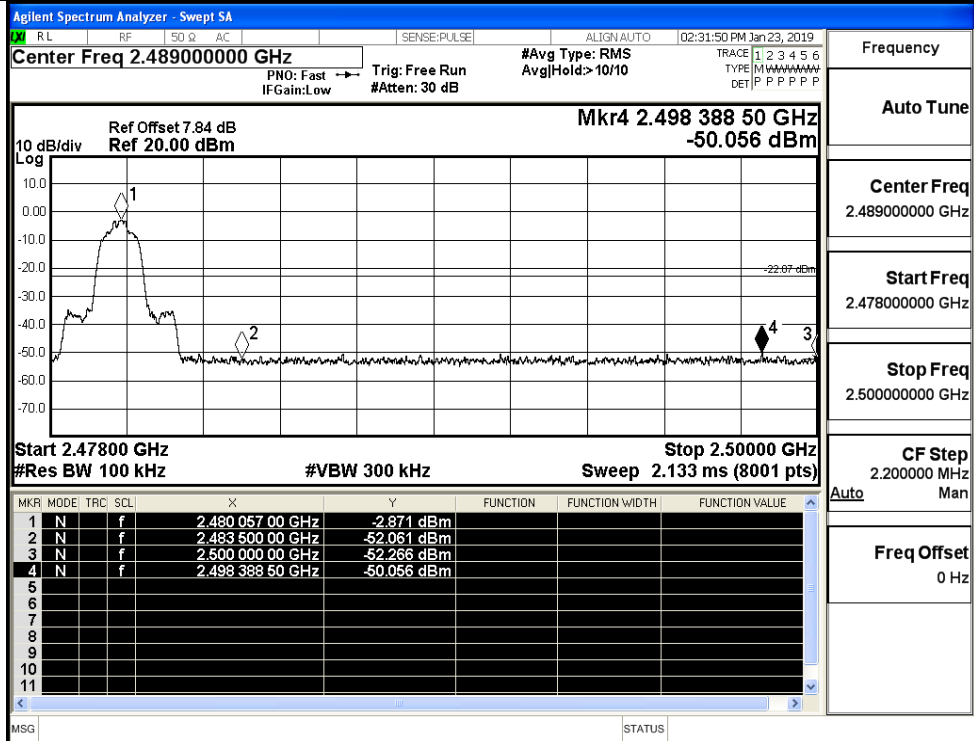
$\pi/4$ DQPSK/LCH/No Hop



$\pi/4$ DQPSK/LCH/Hop

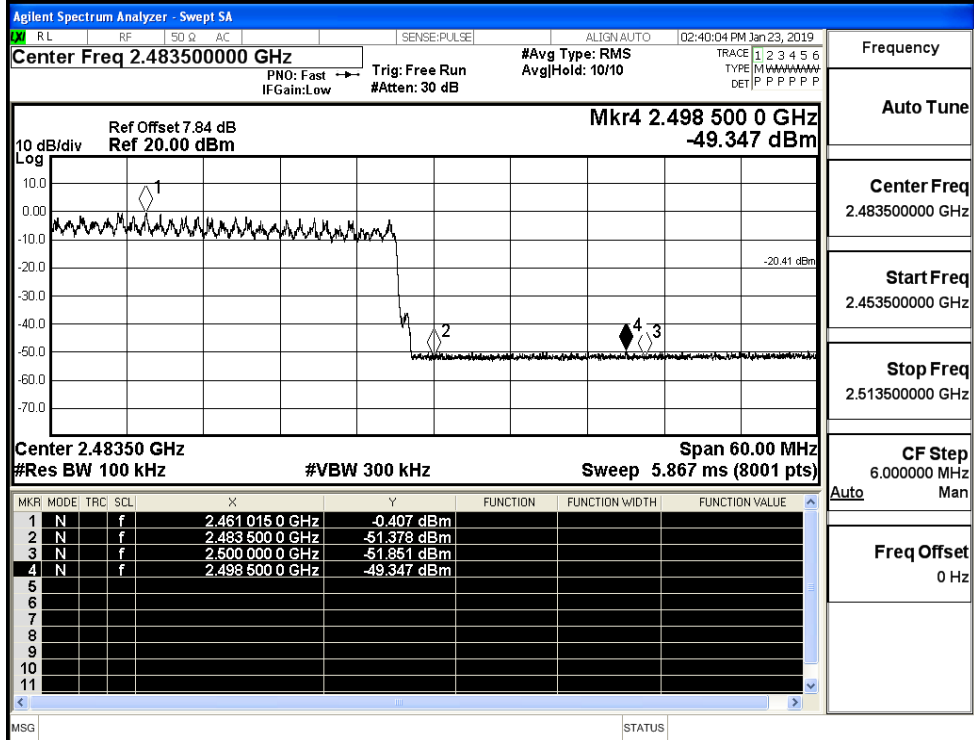


$\pi/4$ DQPSK/HCH/No
Hop



Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

$\pi/4$ DQPSK/HCH/Hop

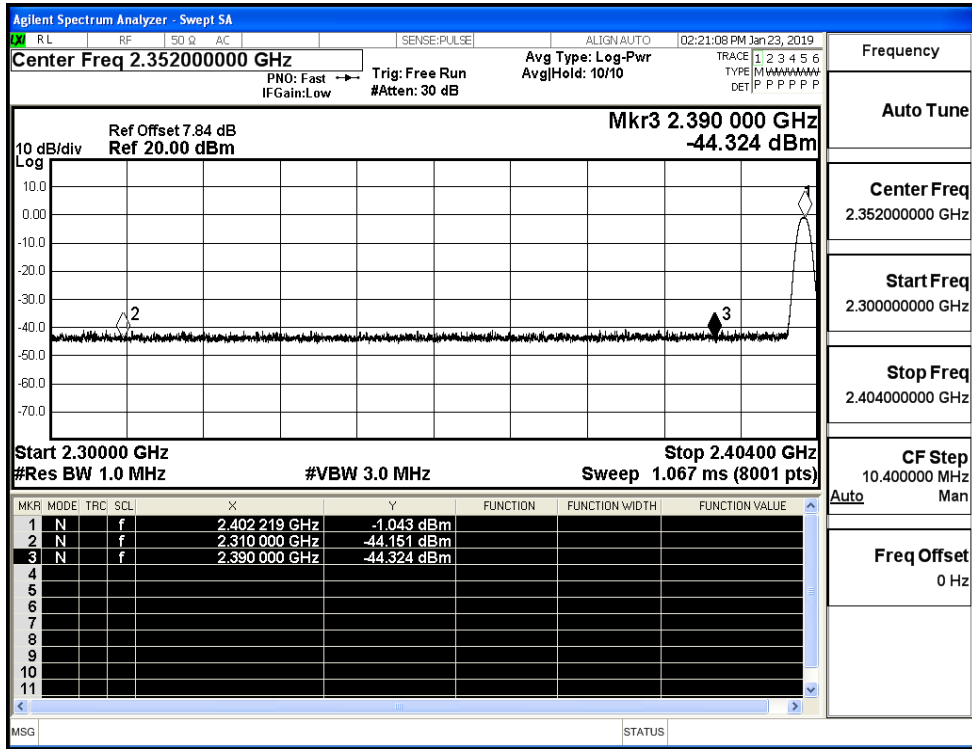


Frequency	
Auto Tune	
Center Freq	2.483500000 GHz
Start Freq	2.453500000 GHz
Stop Freq	2.513500000 GHz
CF Step	6.000000 MHz
Auto	Man
Freq Offset	0 Hz

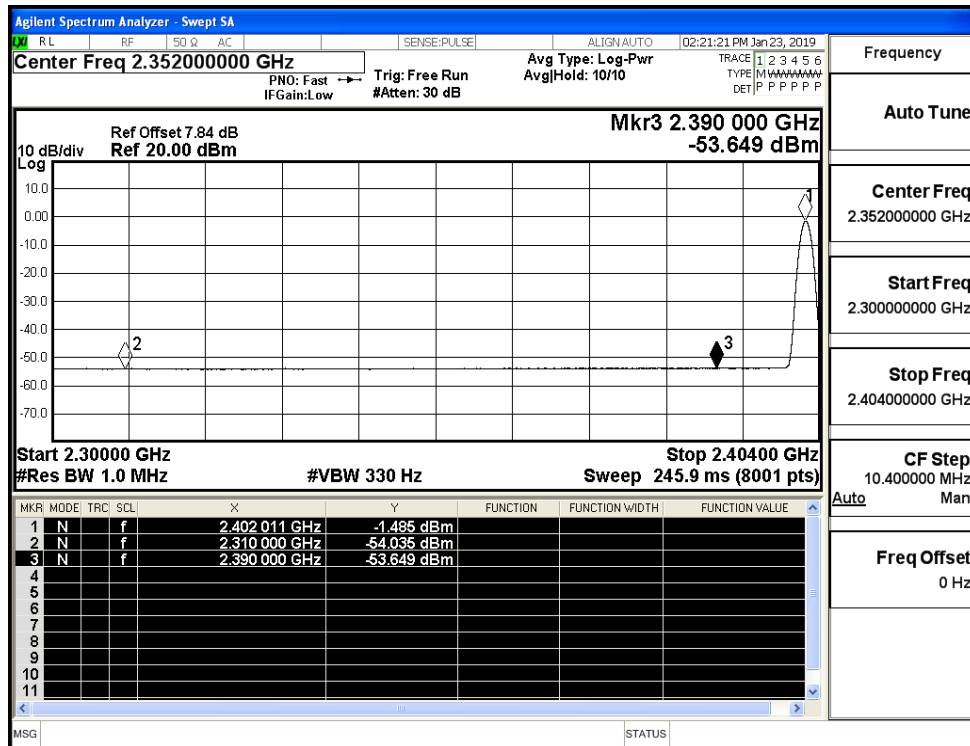
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-44.15	2.0	0	53.11	PEAK	74	PASS
	Off	2310.0	-54.04	2.0	0	43.22	AV	54	PASS
	Off	2390.0	-44.32	2.0	0	52.93	PEAK	74	PASS
	Off	2390.0	-53.65	2.0	0	43.61	AV	54	PASS
	Off	2483.5	-44.24	2.0	0	53.02	PEAK	74	PASS
	Off	2483.5	-53.45	2.0	0	43.81	AV	54	PASS
	Off	2500.0	-43.08	2.0	0	54.18	PEAK	74	PASS
	Off	2500.0	-53.38	2.0	0	43.88	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-44.45	2.0	0	52.81	PEAK	74	PASS
	Off	2310.0	-54.02	2.0	0	43.24	AV	54	PASS
	Off	2390.0	-43.34	2.0	0	53.92	PEAK	74	PASS
	Off	2390.0	-53.75	2.0	0	43.50	AV	54	PASS
	Off	2483.5	-42.40	2.0	0	54.86	PEAK	74	PASS
	Off	2483.5	-53.44	2.0	0	43.82	AV	54	PASS
	Off	2500.0	-42.84	2.0	0	54.41	PEAK	74	PASS
	Off	2500.0	-53.30	2.0	0	43.95	AV	54	PASS

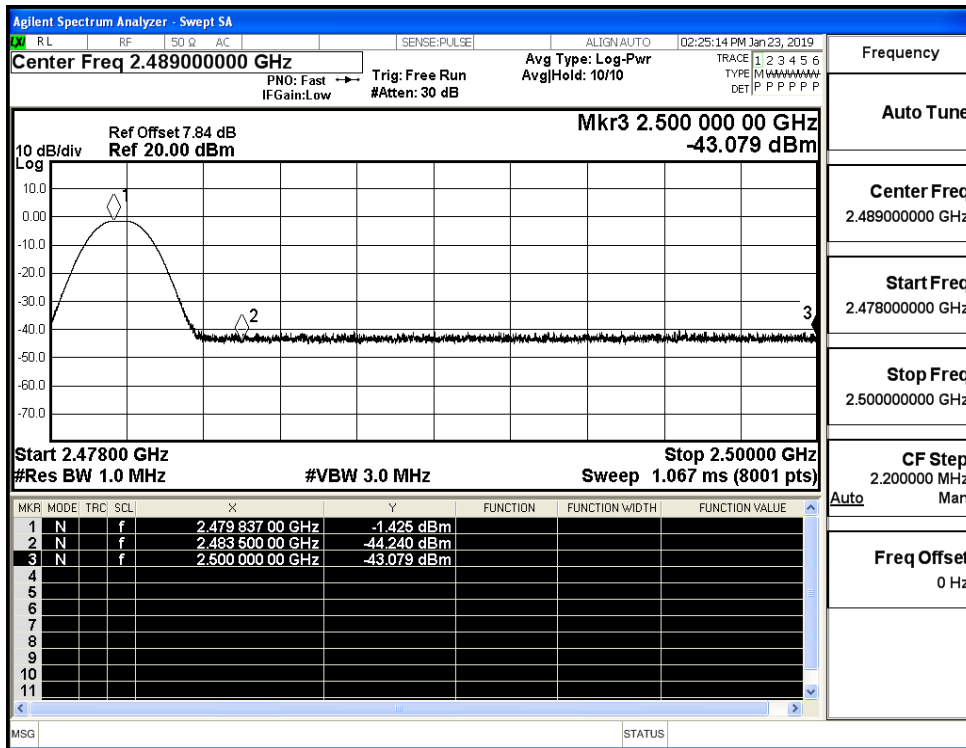
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



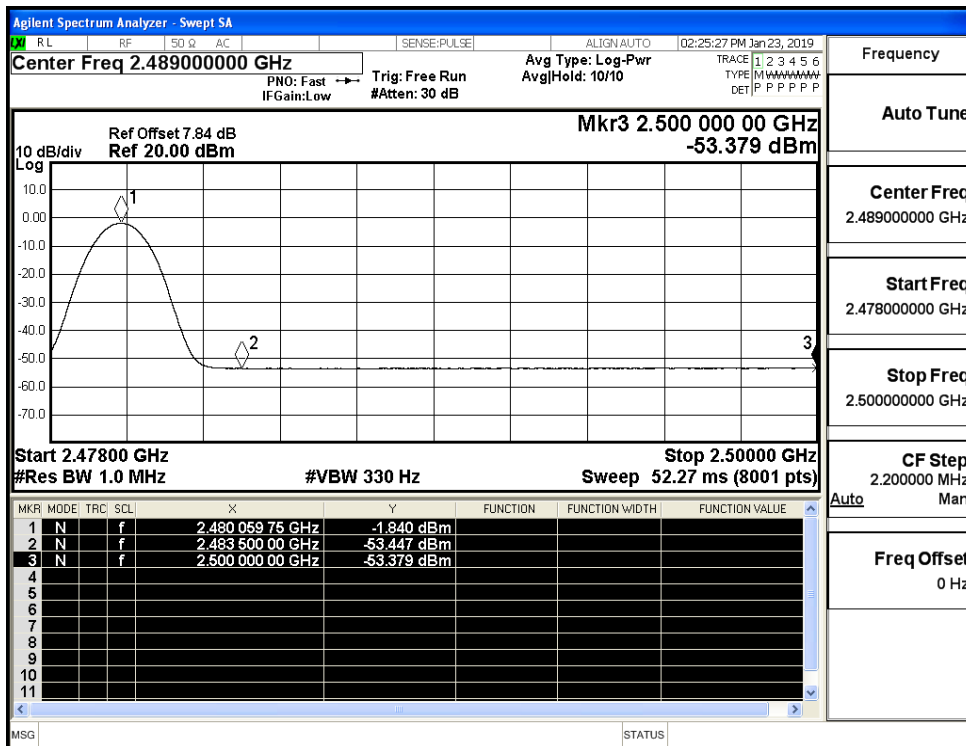
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)



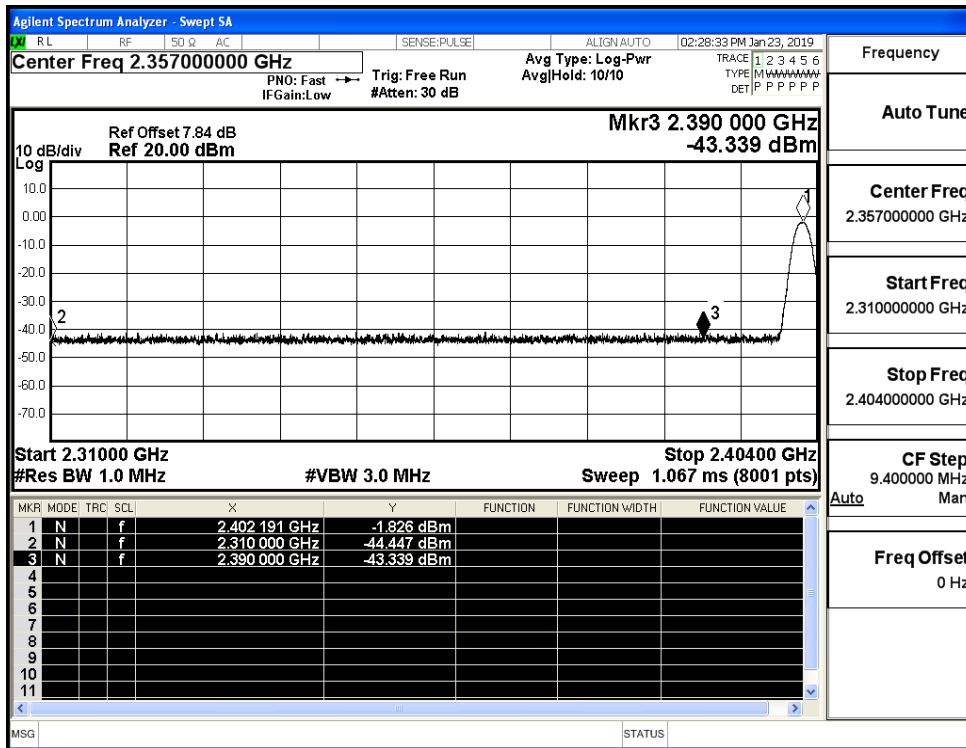
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



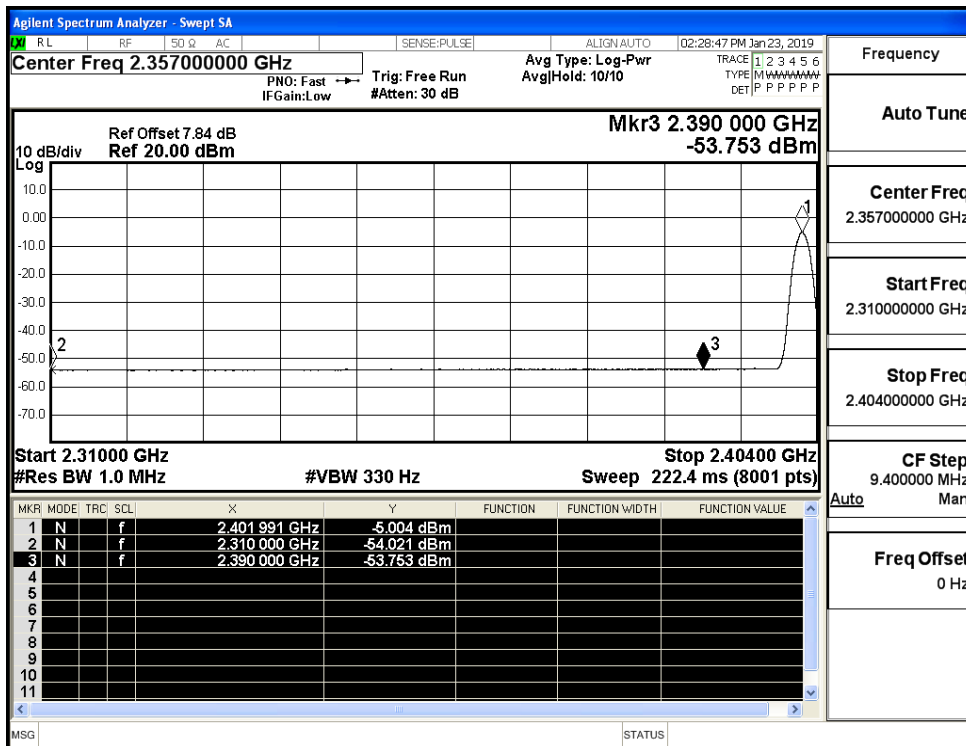
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



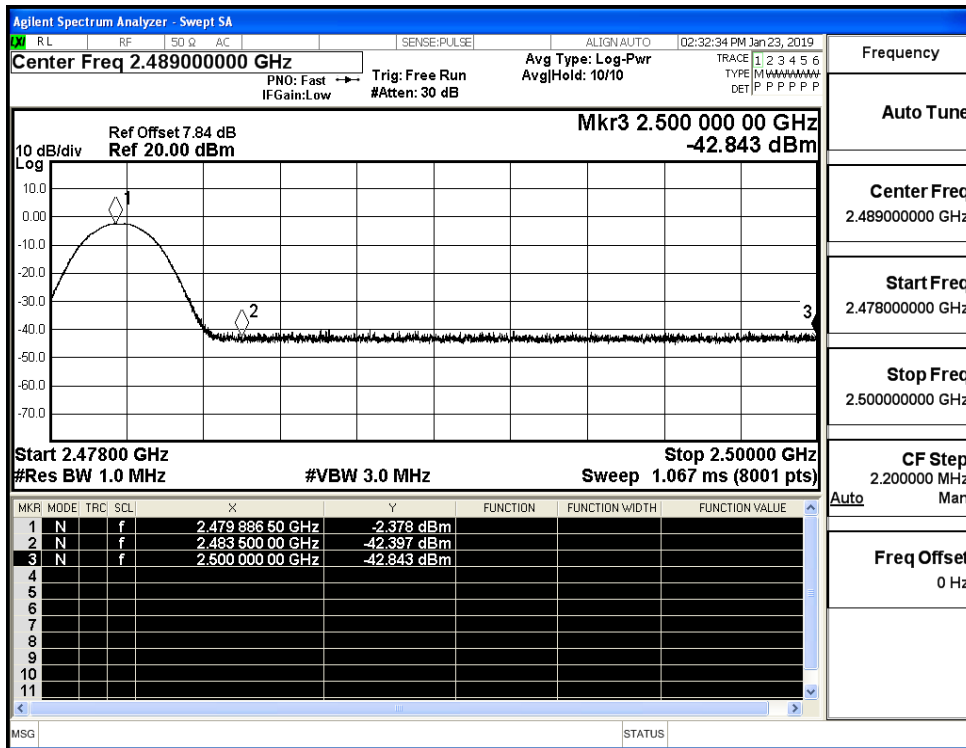
Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)



Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)



Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (High Channel)

