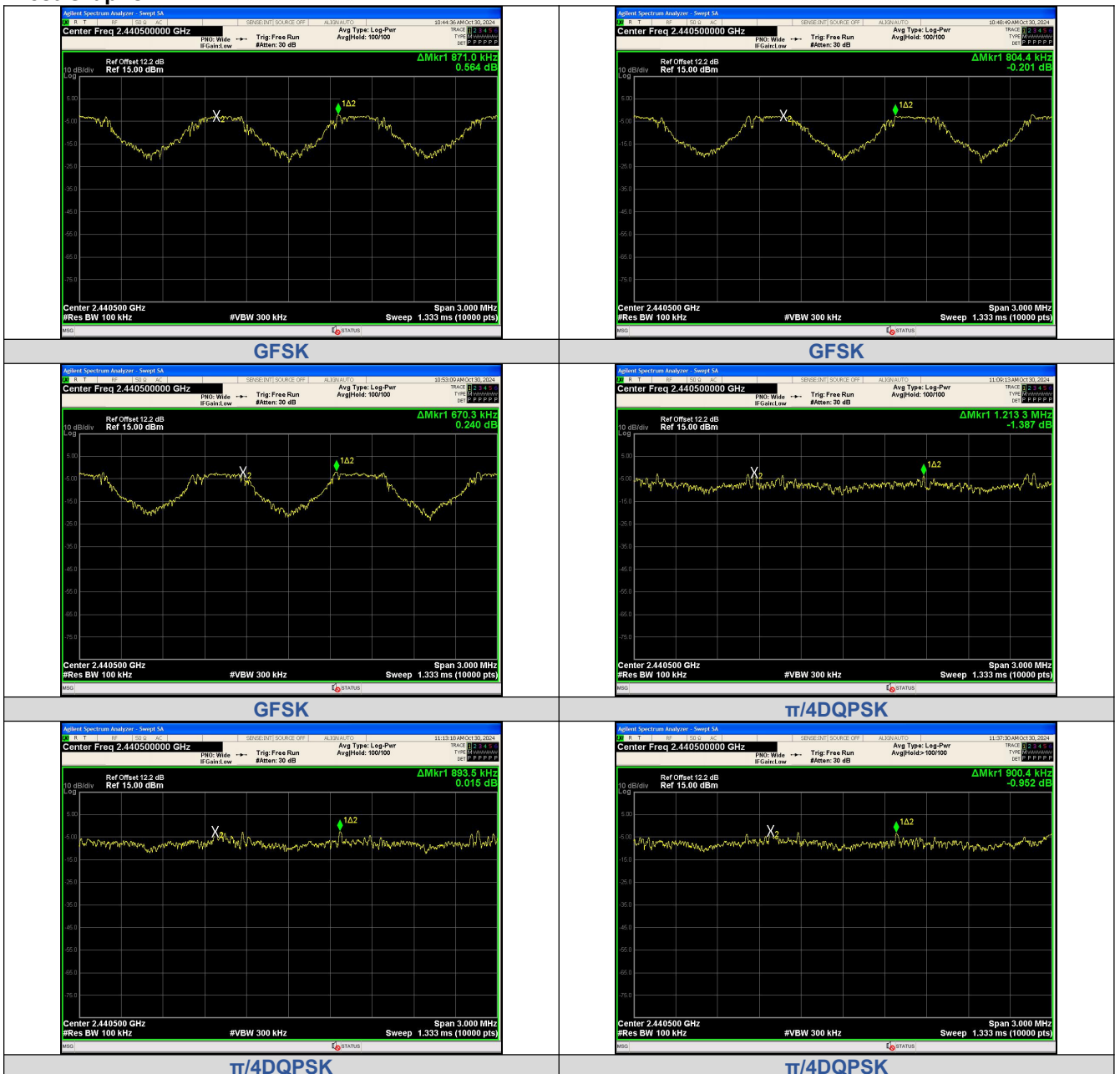


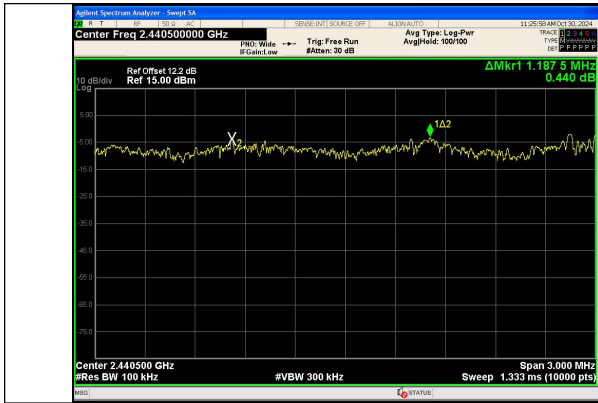
# APPENDIX VII. Carrier Frequencies Separation

## Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.9847	2440.8557	0.8710	0.635	PASS
GFSK	DH5	2440.0714	2440.8758	0.8044	0.633	PASS
GFSK	DH5	2440.1737	2440.844	0.6703	0.635	PASS
$\pi/4$ DQPSK	2-DH5	2439.8644	2441.0777	1.2133	0.87	PASS
$\pi/4$ DQPSK	2-DH5	2439.9757	2440.8692	0.8935	0.853	PASS
$\pi/4$ DQPSK	2-DH5	2439.9814	2440.8818	0.9004	0.871	PASS
8DPSK	3-DH5	2439.8197	2441.0072	1.1875	0.865	PASS
8DPSK	3-DH5	2439.9871	2440.871	0.8839	0.864	PASS
8DPSK	3-DH5	2439.8566	2440.8407	0.9841	0.863	PASS

## Test Graphs





8DPSK



8DPSK



8DPSK

### APPENDIX VIII. Conducted Out Of Band Emission

Test Result  
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2398.96	-43.184	-21.53	-21.654	PASS
			2400.00	-50.483	-21.53	-28.953	PASS
			4803.80	-52.868	-21.53	-31.338	PASS
			7205.90	-62.141	-21.53	-40.611	PASS
			9601.90	-46.575	-21.53	-25.045	PASS
			9607.50	-62.959	-21.53	-41.429	PASS
		39	4882.42	-49.752	-22.0	-27.752	PASS
			7322.05	-61.510	-22.0	-39.510	PASS
			9757.93	-45.320	-22.0	-23.320	PASS
		78	9763.55	-60.863	-22.0	-38.863	PASS
			2483.50	-47.604	-22.64	-24.964	PASS
			4960.45	-50.854	-22.64	-28.214	PASS
			7440.03	-60.742	-22.64	-38.102	PASS
			9914.00	-43.014	-22.64	-20.374	PASS
			9919.62	-62.368	-22.64	-39.728	PASS
$\pi/4$ DQPSK	2-DH5	0	2398.85	-44.441	-21.53	-22.911	PASS
			2400.00	-50.787	-21.53	-29.257	PASS
			4804.40	-56.651	-21.53	-35.121	PASS
			7205.90	-61.285	-21.53	-39.755	PASS
			9608.10	-63.700	-21.53	-42.170	PASS
			24986.9	-45.489	-21.53	-23.959	PASS
		39	4881.79	-51.535	-22.0	-29.535	PASS
			7322.05	-60.830	-22.0	-38.830	PASS
			9757.93	-44.970	-22.0	-22.970	PASS
		78	9764.80	-63.178	-22.0	-41.178	PASS
			2483.50	-50.976	-22.7	-28.276	PASS
			4960.45	-55.512	-22.7	-32.812	PASS
			7440.03	-63.293	-22.7	-40.593	PASS
			9914.00	-43.509	-22.7	-20.809	PASS
			9919.62	-63.021	-22.7	-40.321	PASS
8DPSK	3-DH5	0	2399.00	-44.803	-21.51	-23.293	PASS
			2400.00	-49.121	-21.51	-27.611	PASS
			4803.80	-53.939	-21.51	-32.429	PASS
			7205.30	-62.038	-21.51	-40.528	PASS
			9608.70	-65.000	-21.51	-43.490	PASS
			24835.8	-46.206	-21.51	-24.696	PASS
		39	4881.79	-55.660	-21.96	-33.700	PASS
			7322.05	-62.144	-21.96	-40.184	PASS
			9757.93	-45.207	-21.96	-23.247	PASS
		78	9763.55	-63.103	-21.96	-41.143	PASS
			2483.50	-49.390	-22.91	-26.480	PASS
			4960.45	-55.833	-22.91	-32.923	PASS
			7439.41	-63.247	-22.91	-40.337	PASS
			9914.00	-43.552	-22.91	-20.642	PASS
			9920.86	-61.922	-22.91	-39.012	PASS

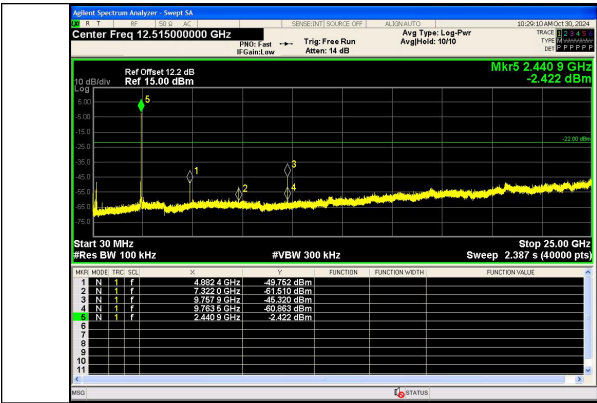
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.86	-44.205	-21.78	-22.425	PASS
			2400.00	-44.258	-21.78	-22.478	PASS
			2483.50	-50.568	-22.8	-27.768	PASS
			2400.00	-44.032	-21.53	-22.502	PASS
			2483.50	-50.978	-22.98	-27.998	PASS
			2398.91	-43.674	-21.52	-22.154	PASS
			2400.00	-43.942	-21.52	-22.422	PASS
			2483.50	-50.018	-22.7	-27.318	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-44.809	-21.51	-23.299	PASS

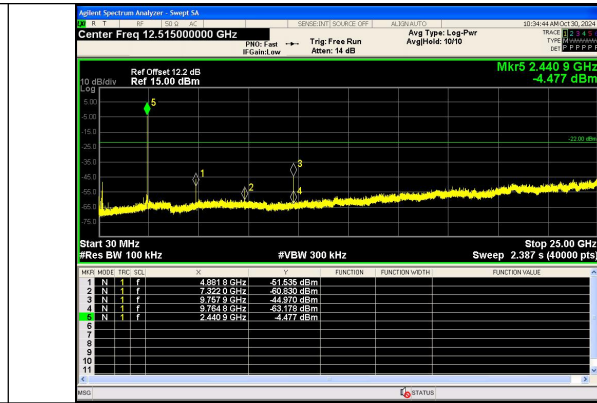
			2483.50	-51.196	-22.8	-28.396	PASS
			2398.86	-44.989	-21.58	-23.409	PASS
			2400.00	-45.705	-21.58	-24.125	PASS
			2483.50	-50.716	-22.92	-27.796	PASS
			2398.98	-45.140	-21.57	-23.570	PASS
			2400.00	-45.551	-21.57	-23.981	PASS
			2483.50	-50.170	-22.75	-27.420	PASS
8DPSK	3-DH5		2400.00	-45.645	-21.87	-23.775	PASS
			2483.50	-50.915	-22.81	-28.105	PASS
			2398.62	-46.584	-21.61	-24.974	PASS
			2400.00	-47.189	-21.61	-25.579	PASS
			2483.50	-51.501	-24.46	-27.041	PASS
			2400.00	-49.486	-21.55	-27.936	PASS
			2483.50	-51.384	-24.18	-27.204	PASS

Test Graphs

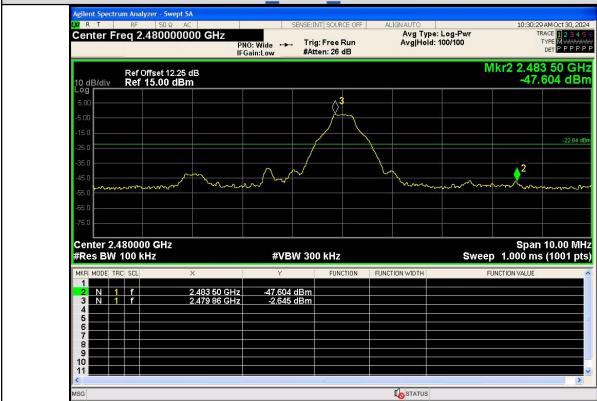
<p>Center Freq 2.4020000 GHz</p> <p>Mkr1 2.398 98 GHz -43.184 dBm</p> <p>Center 2.402000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)</p>	<p>Center Freq 2.4020000 GHz</p> <p>Mkr1 2.398 85 GHz -44.441 dBm</p> <p>Center 2.402000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)</p>		
<p><b>Out Of Band Emission GFSK DH5 Channel 0</b></p>		<p><b>Out Of Band Emission <math>\pi/4</math>DQPSK 2-DH5 Channel 0</b></p>	
<p>Center Freq 12.515000000 GHz</p> <p>Mkr5 2.401 6 GHz -1.828 dBm</p> <p>Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.387 s (40000 pts)</p>	<p>Center Freq 12.515000000 GHz</p> <p>Mkr5 2.402 2 GHz -6.987 dBm</p> <p>Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.387 s (40000 pts)</p>		
<p><b>30.0 MHz - 25000.0 MHz GFSK DH5 Channel 0</b></p>		<p><b>30.0 MHz - 25000.0 MHz <math>\pi/4</math>DQPSK 2-DH5 Channel 0</b></p>	
<p>Center Freq 2.441000000 GHz</p> <p>Mkr3 2.440 86 GHz -1.997 dBm</p> <p>Center 2.441000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)</p>	<p>Center Freq 2.441000000 GHz</p> <p>Mkr3 2.440 86 GHz -1.998 dBm</p> <p>Center 2.441000 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)</p>		
<p><b>Out Of Band Emission GFSK DH5 Channel 39</b></p>		<p><b>Out Of Band Emission <math>\pi/4</math>DQPSK 2-DH5 Channel 39</b></p>	



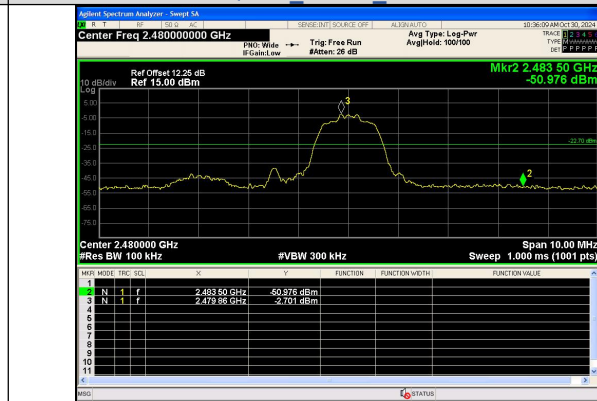
30.0 MHz - 25000.0 MHz  
GFSK DH5 Channel 39



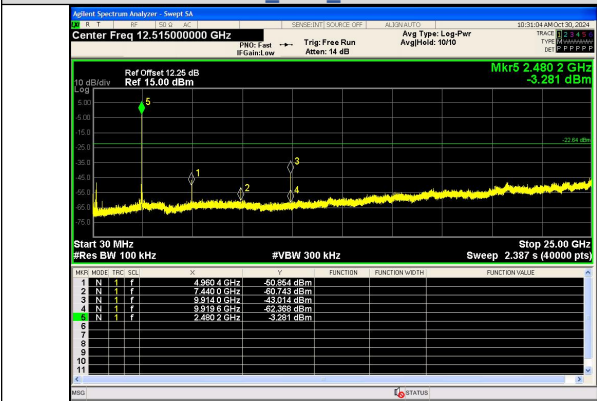
30.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 39



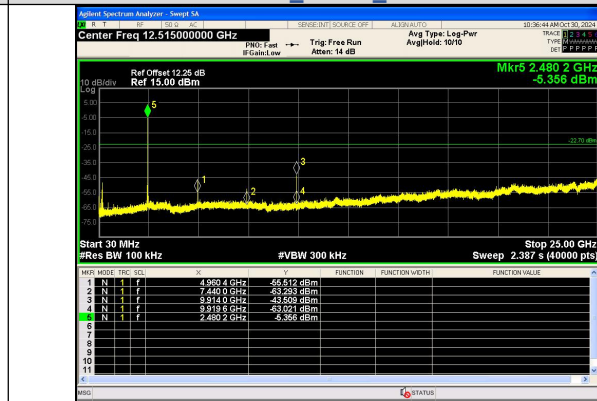
Out Of Band Emission  
GFSK DH5 Channel 78



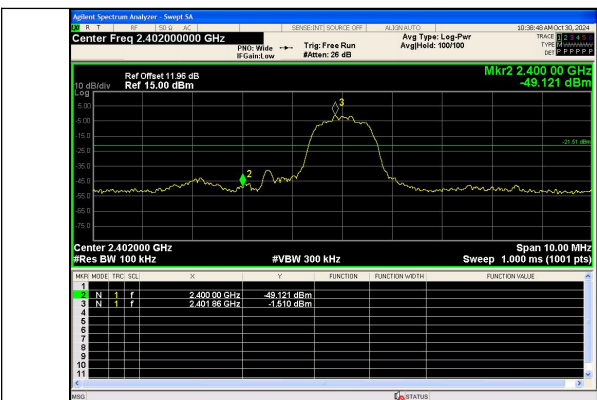
Out Of Band Emission  
 $\pi/4$ DQPSK 2-DH5 Channel 78



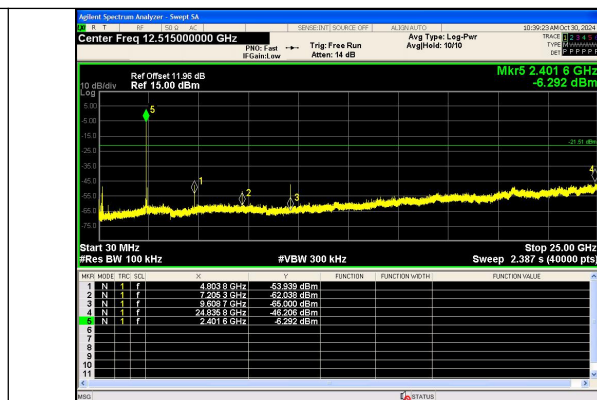
30.0 MHz - 25000.0 MHz  
GFSK DH5 Channel 78



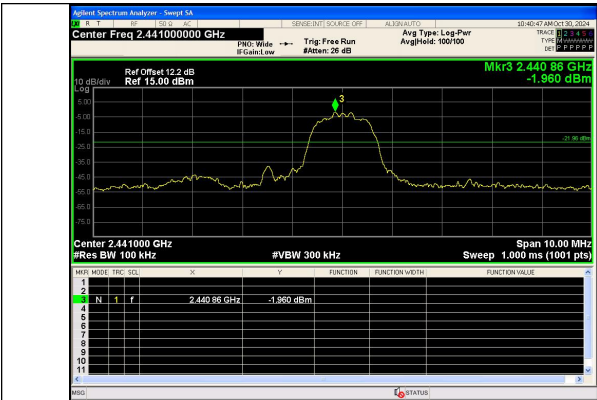
30.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 78



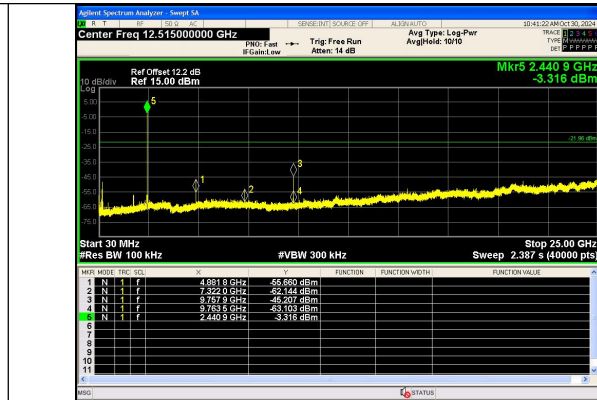
Out Of Band Emission  
8DPSK 3-DH5 Channel 0



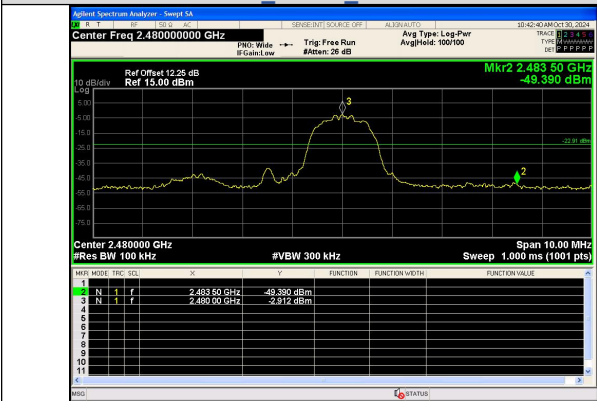
30.0 MHz - 25000.0 MHz  
8DPSK 3-DH5 Channel 0



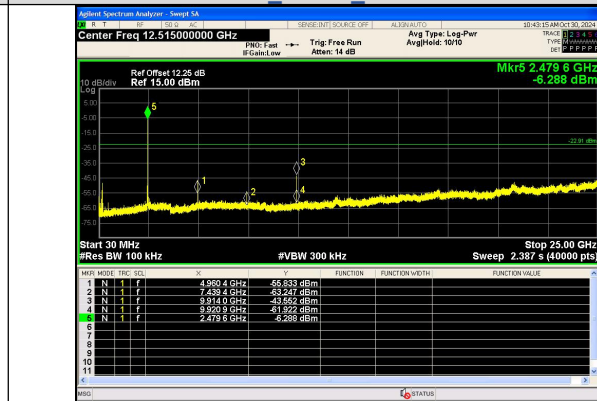
Out Of Band Emission  
8DPSK 3-DH5 Channel 39



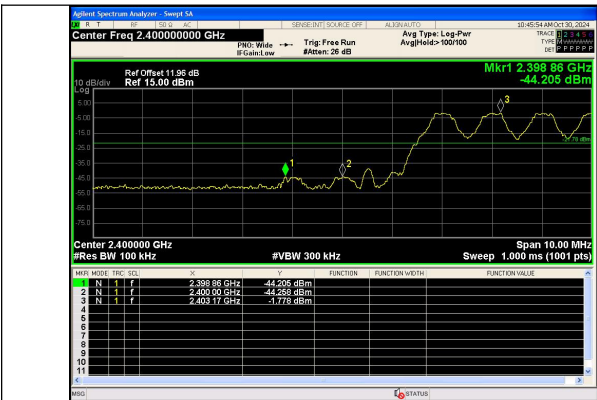
30.0 MHz - 25000.0 MHz  
8DPSK 3-DH5 Channel 39



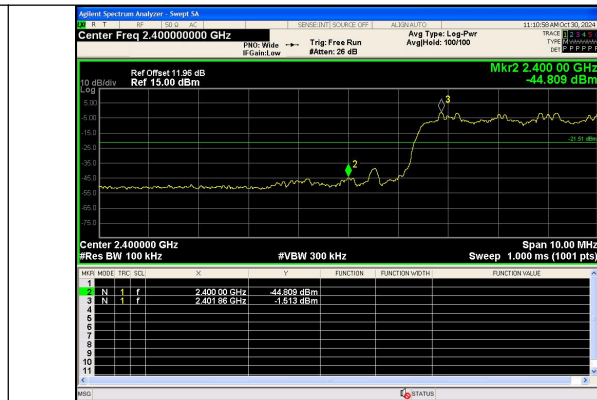
Out Of Band Emission  
8DPSK 3-DH5 Channel 78



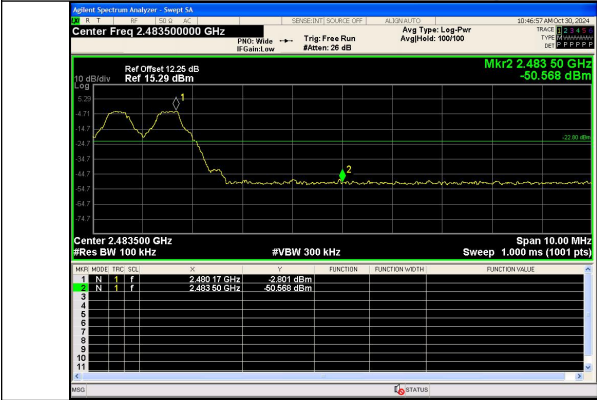
30.0 MHz - 25000.0 MHz  
8DPSK 3-DH5 Channel 78



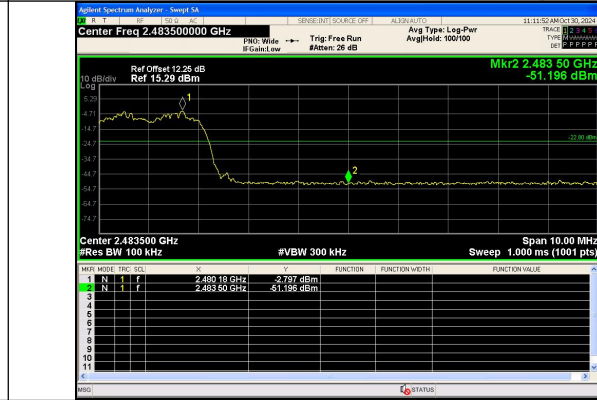
Out Of Band Emission(Left)  
GFSK DH5 Channel Hopping



Out Of Band Emission(Left)  
pi/4DQPSK 2-DH5 Channel Hopping



Out Of Band Emission(Right)  
GFSK DH5 Channel Hopping



Out Of Band Emission(Right)  
pi/4DQPSK 2-DH5 Channel Hopping