

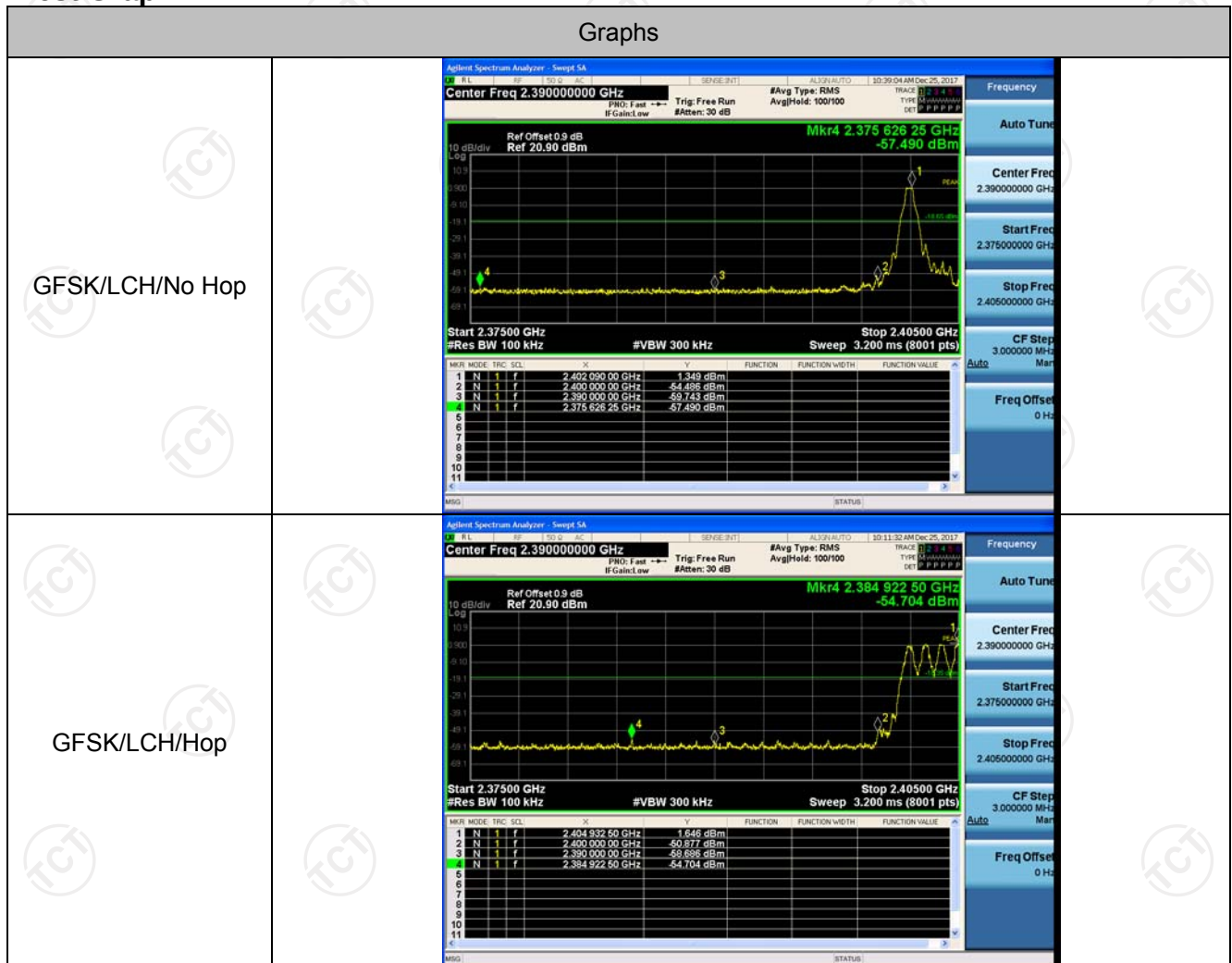
Band-edge for RF Conducted Emissions

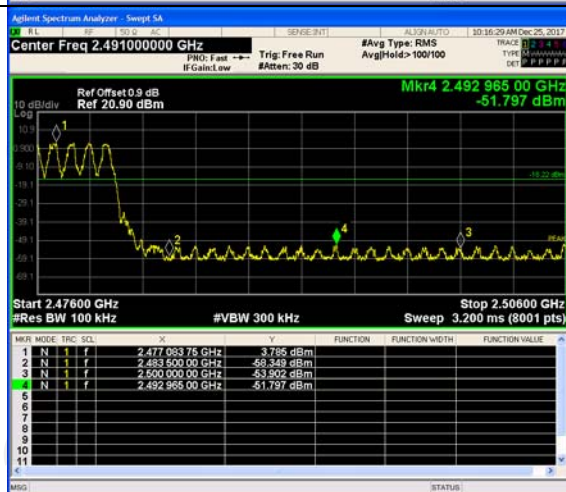
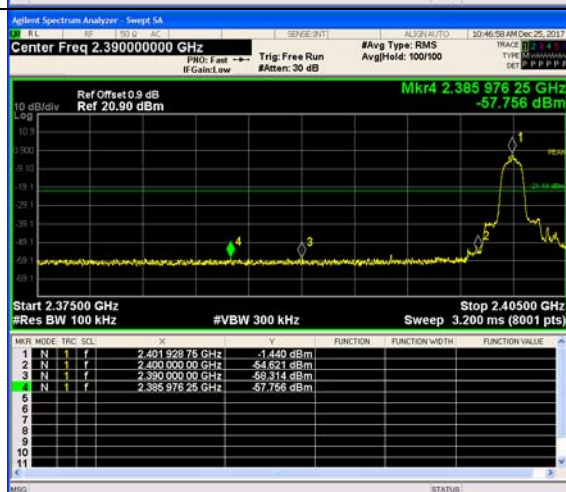
Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	1.349	Off	-57.490	-18.65	PASS
			1.646	On	-54.704	-18.35	PASS
GFSK	HCH	2480	3.725	Off	-53.161	-16.28	PASS
			3.785	On	-51.797	-16.22	PASS
$\pi/4$ DQPSK	LCH	2402	-1.440	Off	-57.756	-21.44	PASS
			-1.508	On	-56.406	-21.51	PASS
$\pi/4$ DQPSK	HCH	2480	2.071	Off	-54.990	-17.93	PASS
			1.200	On	-53.382	-18.8	PASS
8DPSK	LCH	2402	-1.378	Off	-57.574	-21.38	PASS
			0.040	On	-55.862	-19.96	PASS
8DPSK	HCH	2480	2.129	Off	-54.222	-17.87	PASS
			2.126	On	-55.228	-17.87	PASS

Test Graph

Graphs

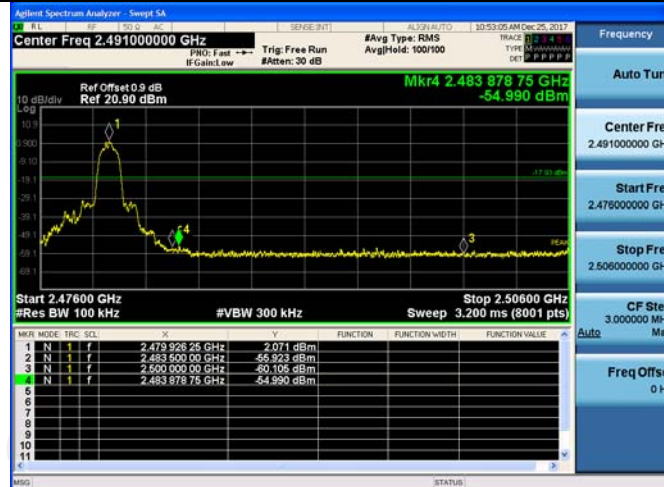


GFSK/HCH/No Hop	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.491000000 GHz Ref Offset 0.9 dB Ref 20.90 dBm Mkr4 2.483 942 50 GHz -53.161 dBm Start 2.47600 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.50600 GHz Sweep 3.200 ms (8001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</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>2.479 926 26 GHz</td><td>3.725 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.483 500 00 GHz</td><td>-59.155 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.500 000 00 GHz</td><td>-59.357 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>2.483 942 50 GHz</td><td>-53.161 dBm</td><td></td><td></td><td></td></tr></table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.479 926 26 GHz	3.725 dBm				2	N	1	f	2.483 500 00 GHz	-59.155 dBm				3	N	1	f	2.500 000 00 GHz	-59.357 dBm				4	N	1	f	2.483 942 50 GHz	-53.161 dBm				Frequency Auto Tune Center Freq 2.491000000 GHz Start Freq 2.476000000 GHz Stop Freq 2.506000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
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GFSK/HCH/Hop	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.491000000 GHz Ref Offset 0.9 dB Ref 20.90 dBm Mkr4 2.492 965 00 GHz -51.797 dBm Start 2.47600 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.50600 GHz Sweep 3.200 ms (8001 pts) <table><tr><th>MNR</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>2.477 983 75 GHz</td><td>3.785 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.493 500 00 GHz</td><td>-59.349 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.500 000 00 GHz</td><td>-53.902 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>2.492 965 00 GHz</td><td>-51.797 dBm</td><td></td><td></td><td></td></tr></table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.477 983 75 GHz	3.785 dBm				2	N	1	f	2.493 500 00 GHz	-59.349 dBm				3	N	1	f	2.500 000 00 GHz	-53.902 dBm				4	N	1	f	2.492 965 00 GHz	-51.797 dBm				Frequency Auto Tune Center Freq 2.491000000 GHz Start Freq 2.476000000 GHz Stop Freq 2.506000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
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$\pi/4$ DQPSK/LCH/No Hop	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.390000000 GHz Ref Offset 0.9 dB Ref 20.90 dBm Mkr4 2.385 976 25 GHz -57.756 dBm Start 2.37500 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.40500 GHz Sweep 3.200 ms (8001 pts) <table><tr><th>MNR</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>2.401 928 75 GHz</td><td>-1.449 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.400 000 00 GHz</td><td>-54.621 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.390 000 00 GHz</td><td>-59.314 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>2.385 976 25 GHz</td><td>-57.756 dBm</td><td></td><td></td><td></td></tr></table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.401 928 75 GHz	-1.449 dBm				2	N	1	f	2.400 000 00 GHz	-54.621 dBm				3	N	1	f	2.390 000 00 GHz	-59.314 dBm				4	N	1	f	2.385 976 25 GHz	-57.756 dBm				Frequency Auto Tune Center Freq 2.390000000 GHz Start Freq 2.375000000 GHz Stop Freq 2.405000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
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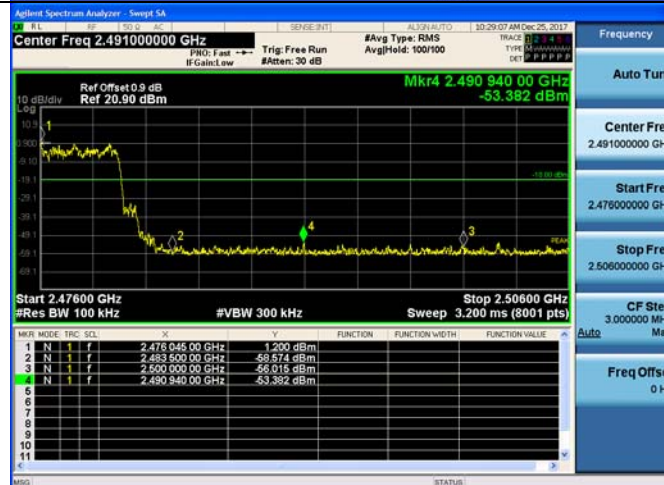
$\pi/4$ DQPSK/LCH/Hop



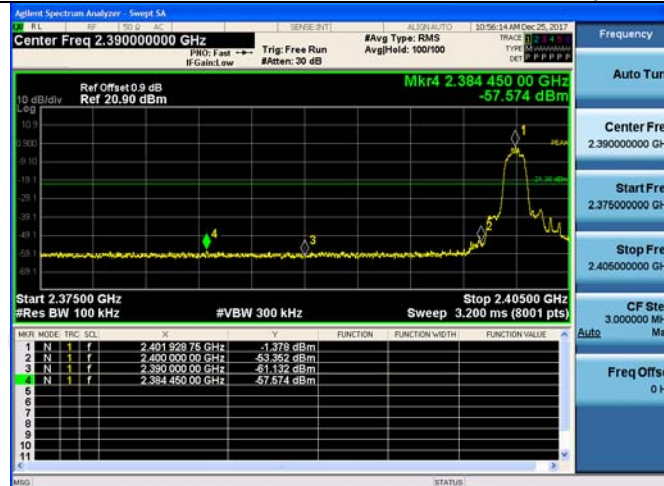
$\pi/4$ DQPSK/HCH/No Hop



$\pi/4$ DQPSK/HCH/Hop



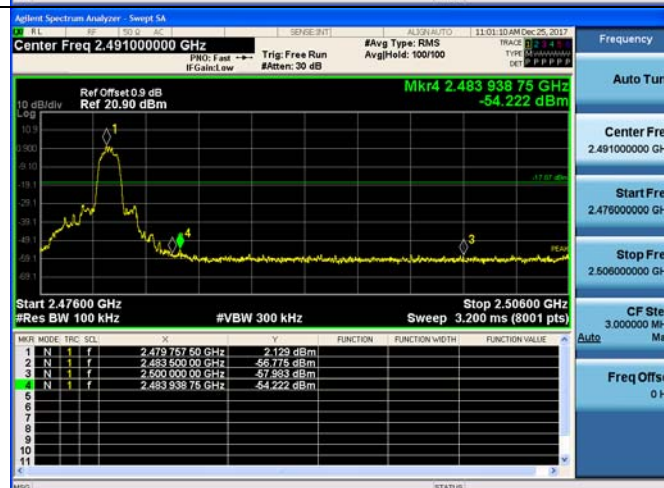
8DPSK/LCH/No Hop



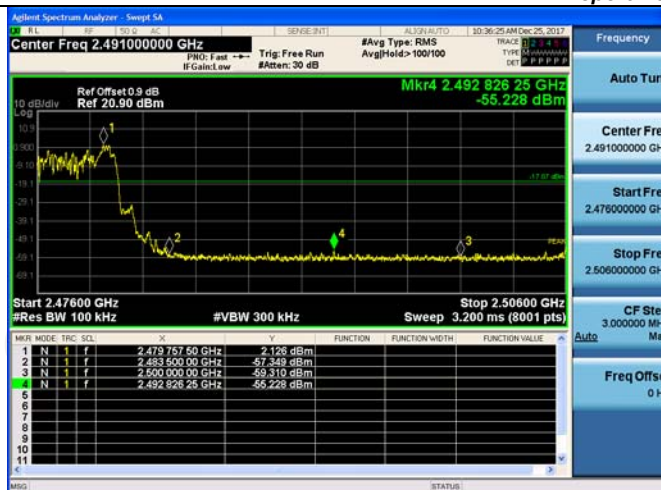
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



8DPSK/HCH/Hop

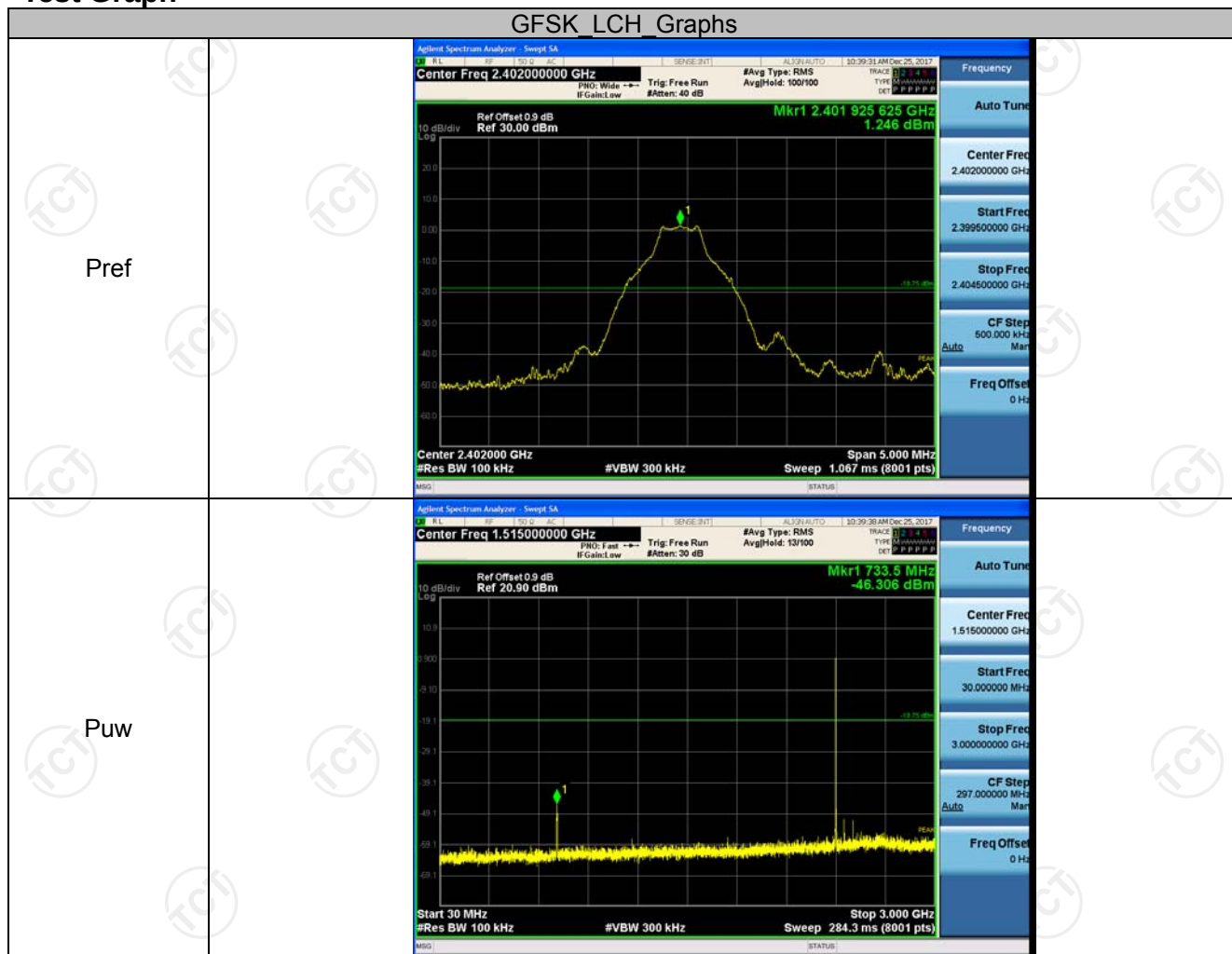


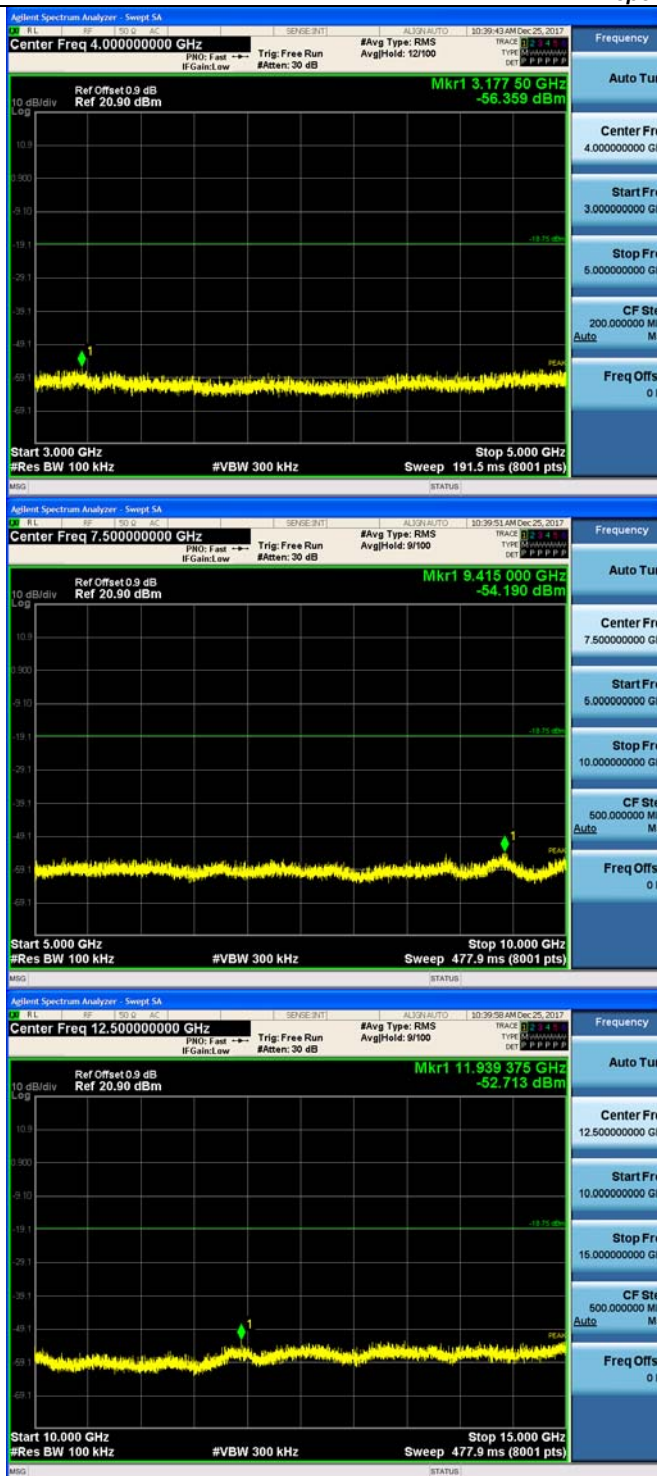
RF Conducted Spurious Emissions

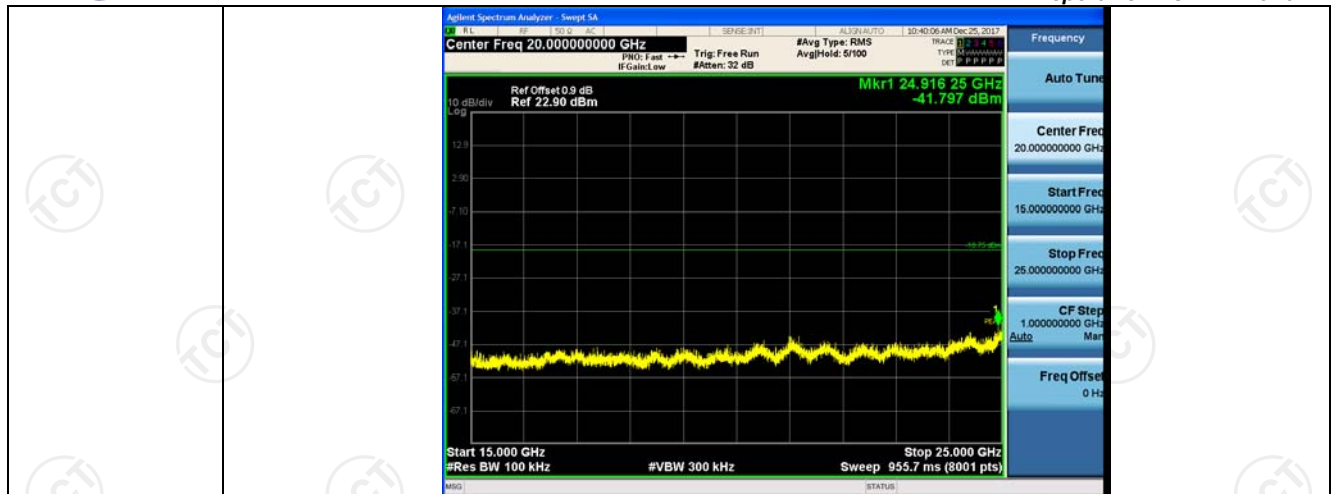
Result Table

Mode	Channel	Pref [dBm]	Puw [dBm]	Verdict
GFSK	LCH	1.246	<Limit	PASS
GFSK	MCH	3.412	<Limit	PASS
GFSK	HCH	3.571	<Limit	PASS
$\pi/4$ DQPSK	LCH	-1.493	<Limit	PASS
$\pi/4$ DQPSK	MCH	2.27	<Limit	PASS
$\pi/4$ DQPSK	HCH	1.993	<Limit	PASS
8DPSK	LCH	-1.391	<Limit	PASS
8DPSK	MCH	2.329	<Limit	PASS
8DPSK	HCH	1.93	<Limit	PASS

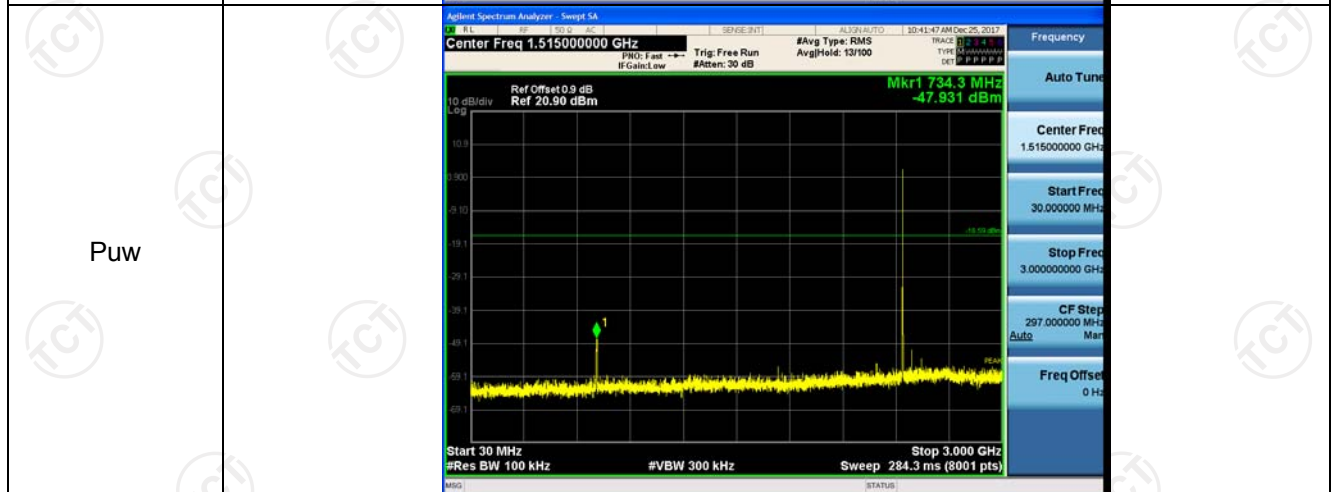
Test Graph

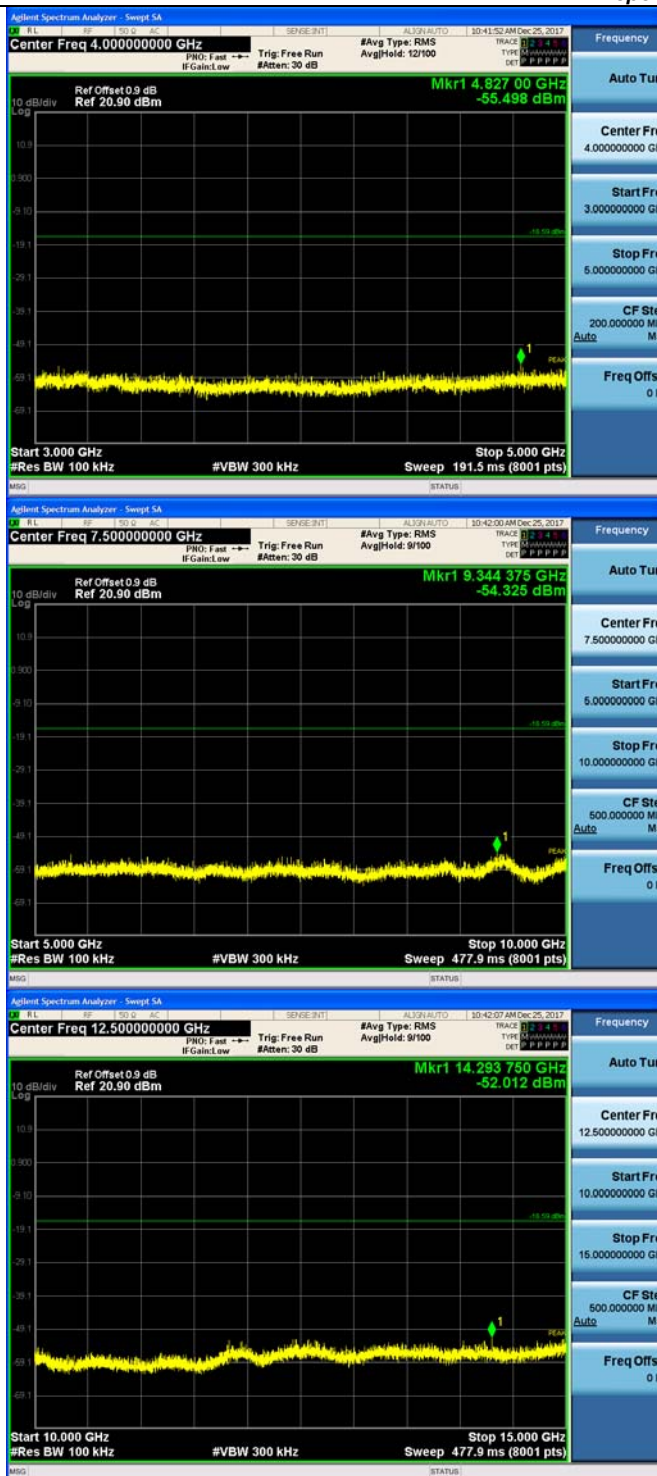


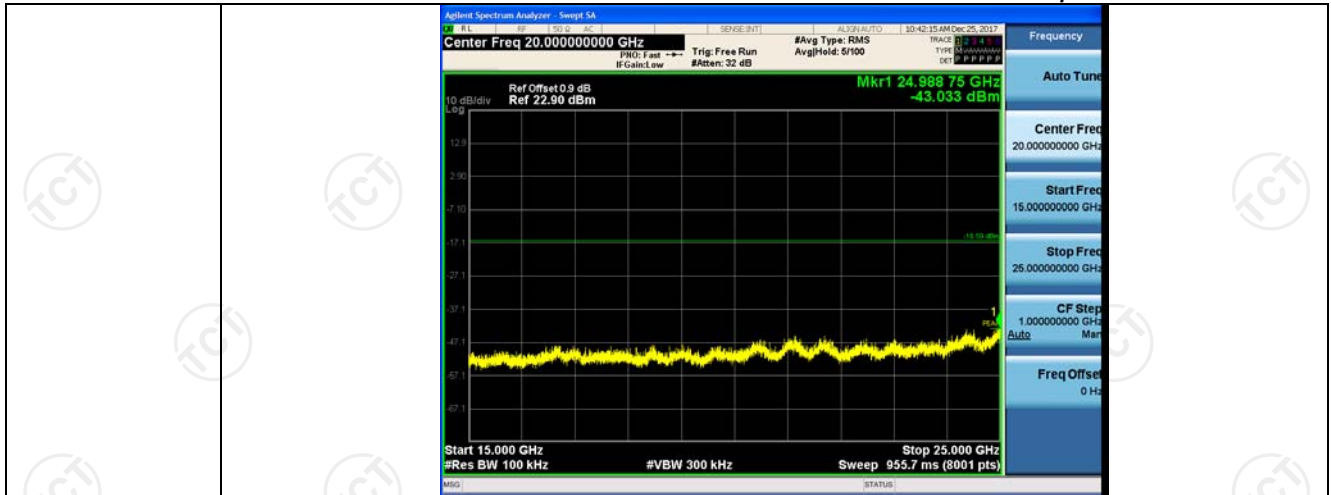




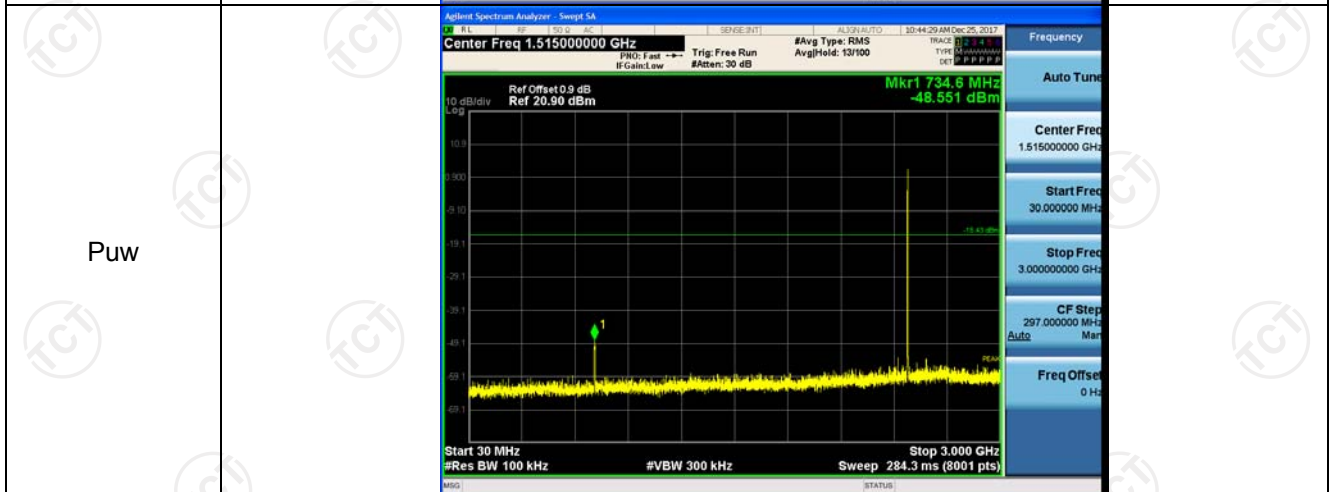
GFSK MCH Graphs

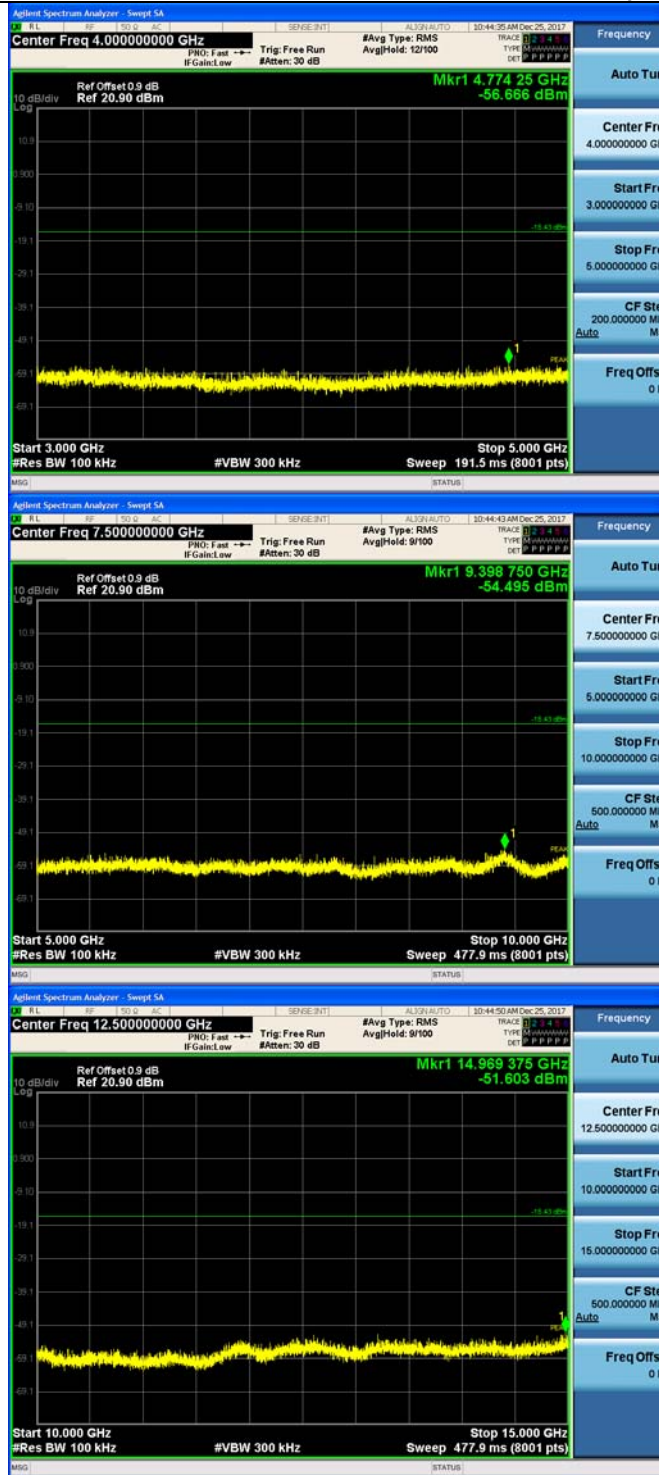


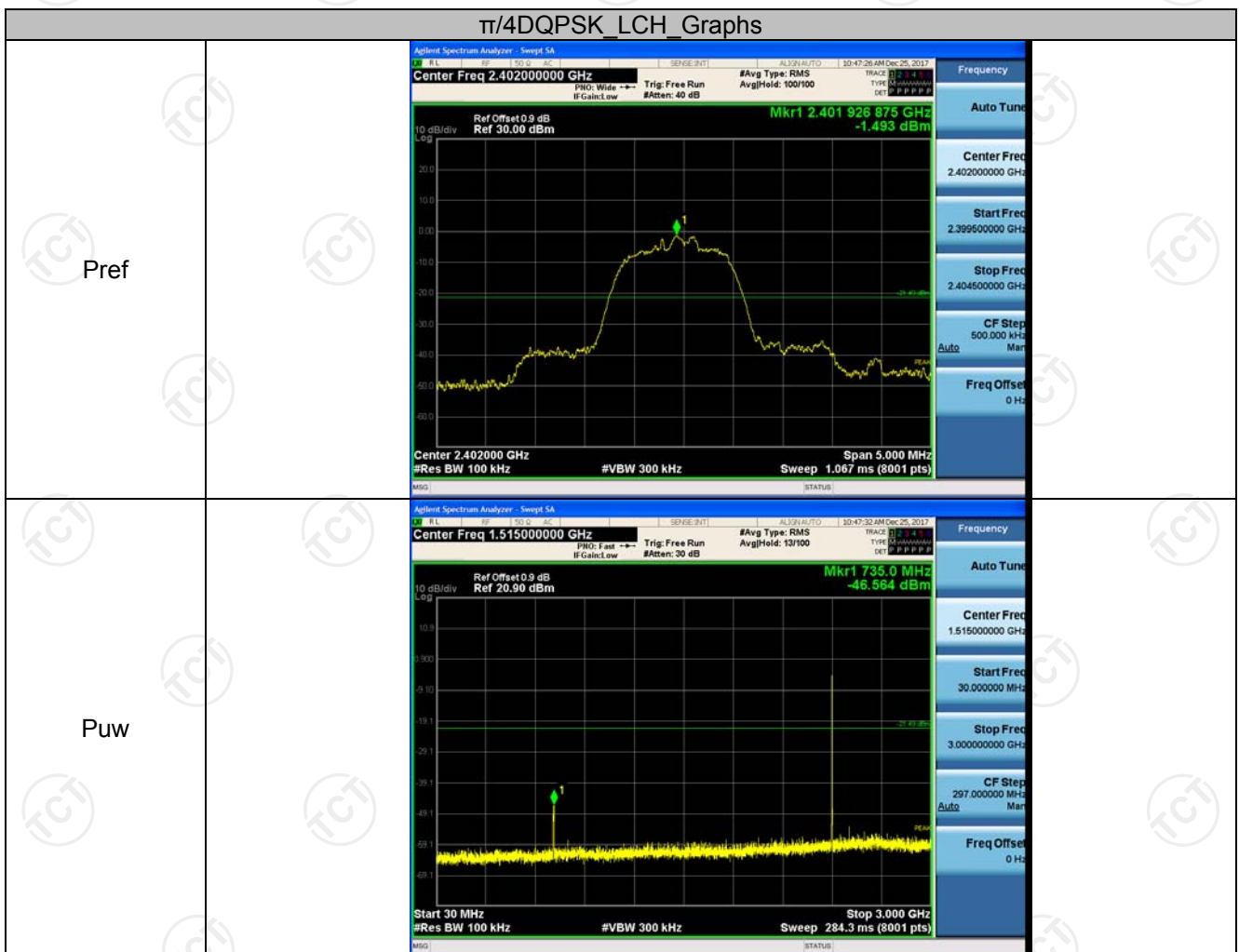
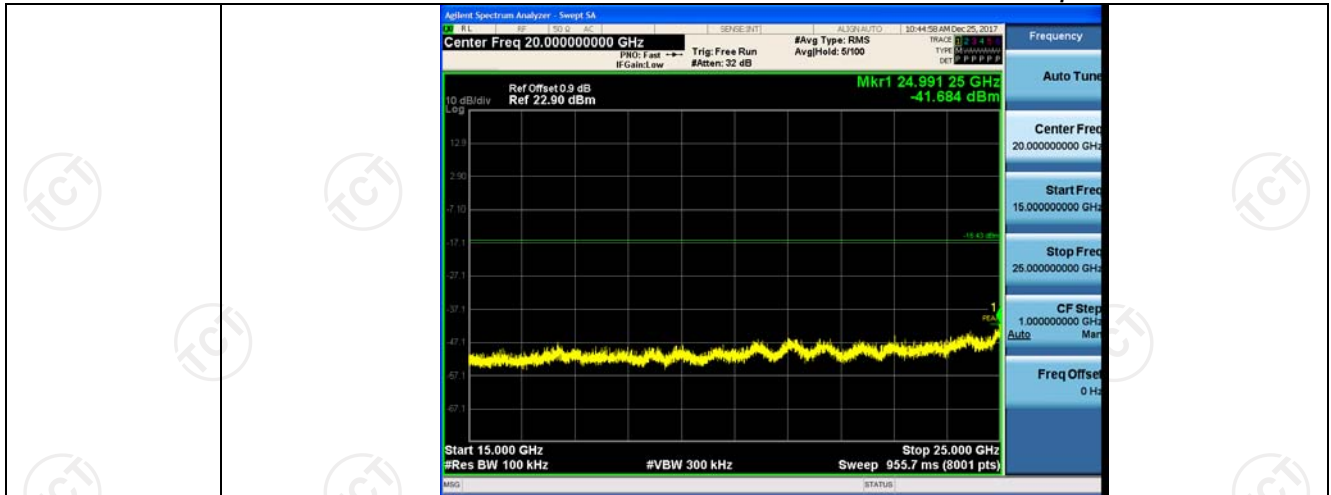


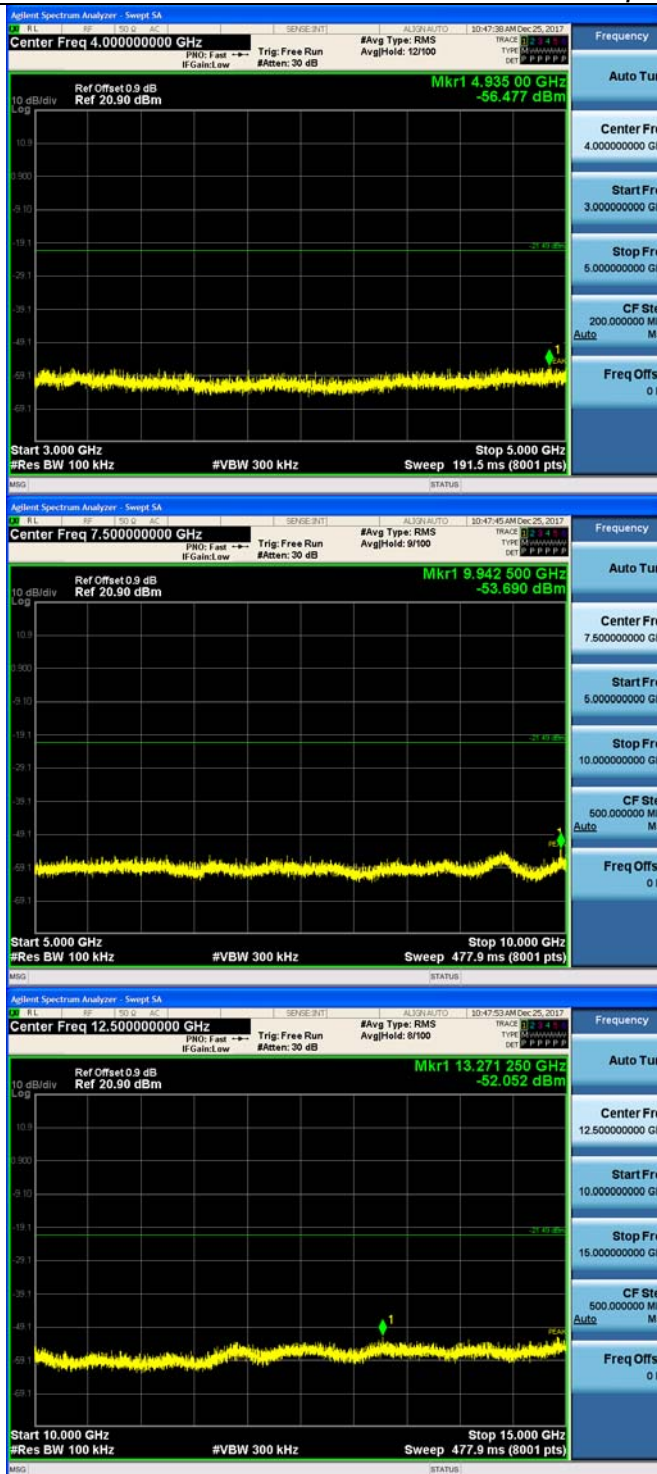


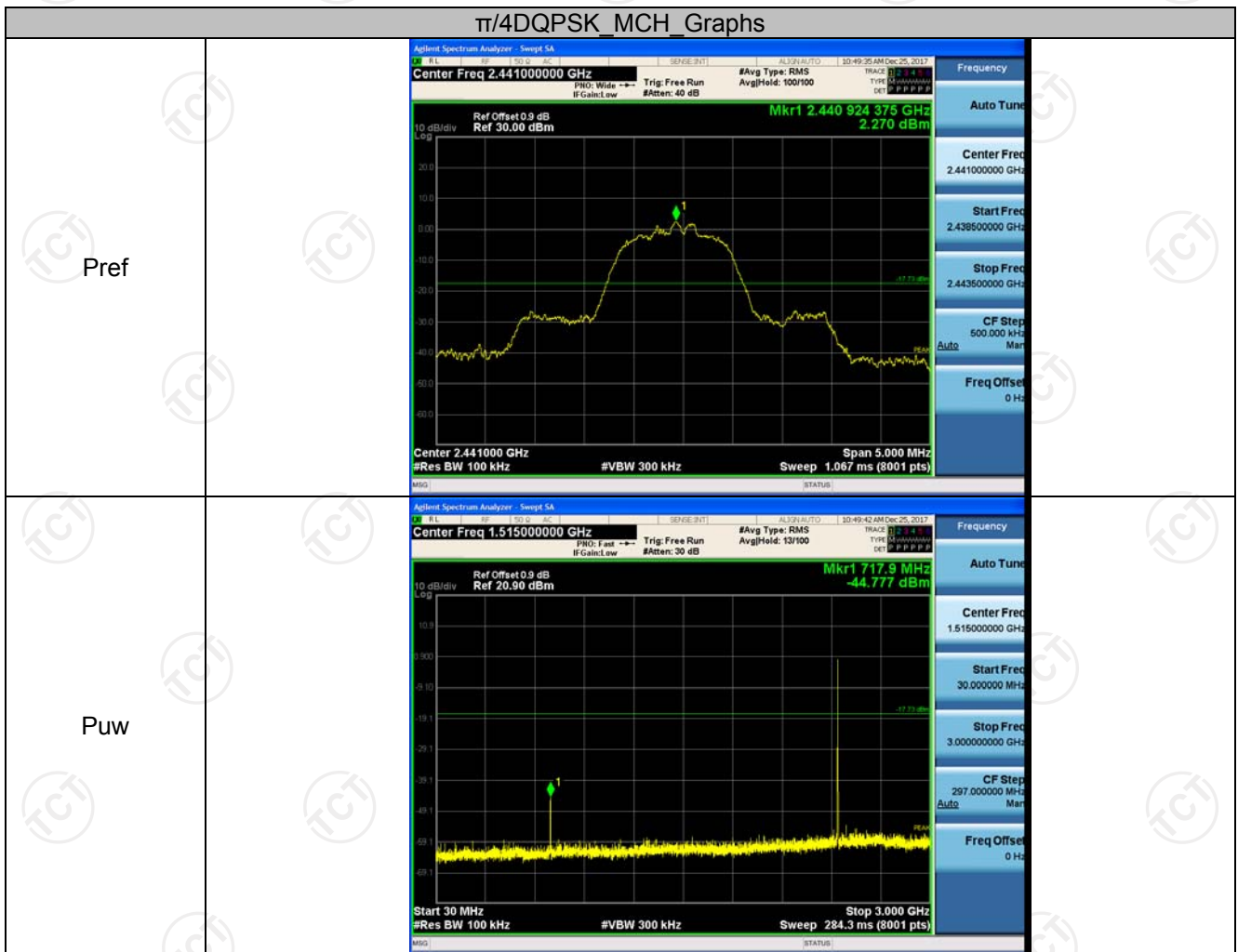
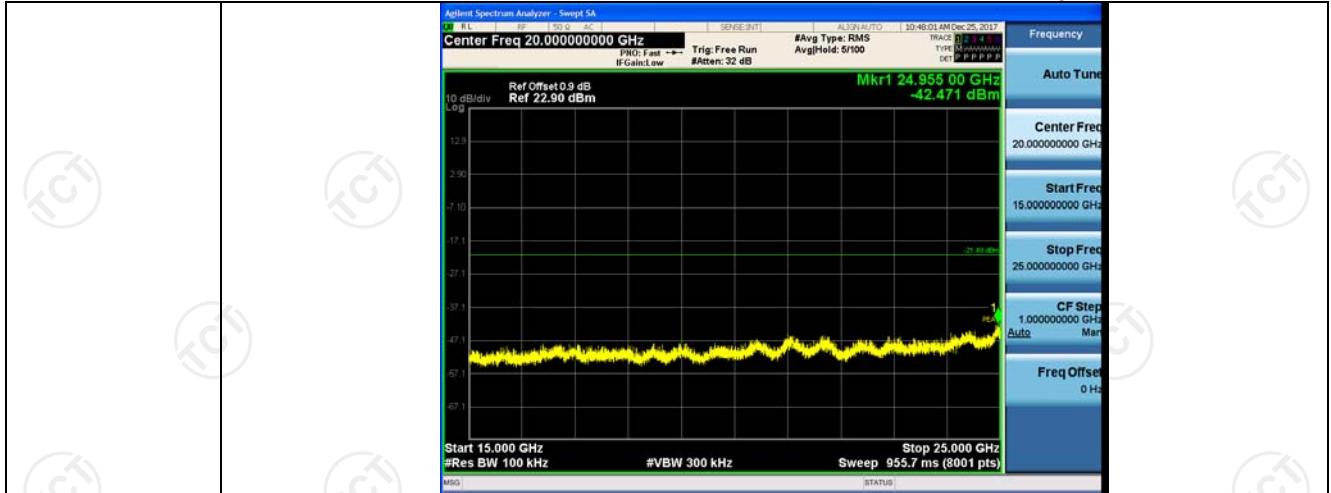
GFSK HCH_Graphs

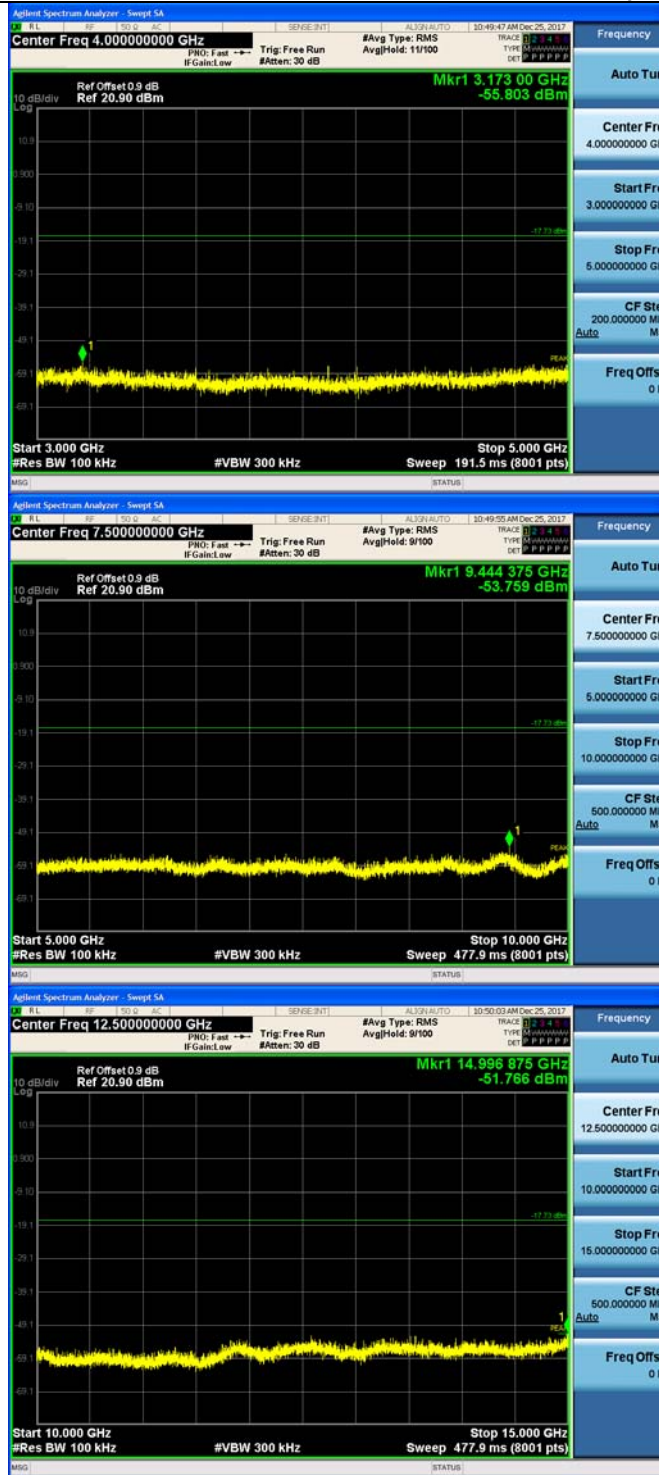


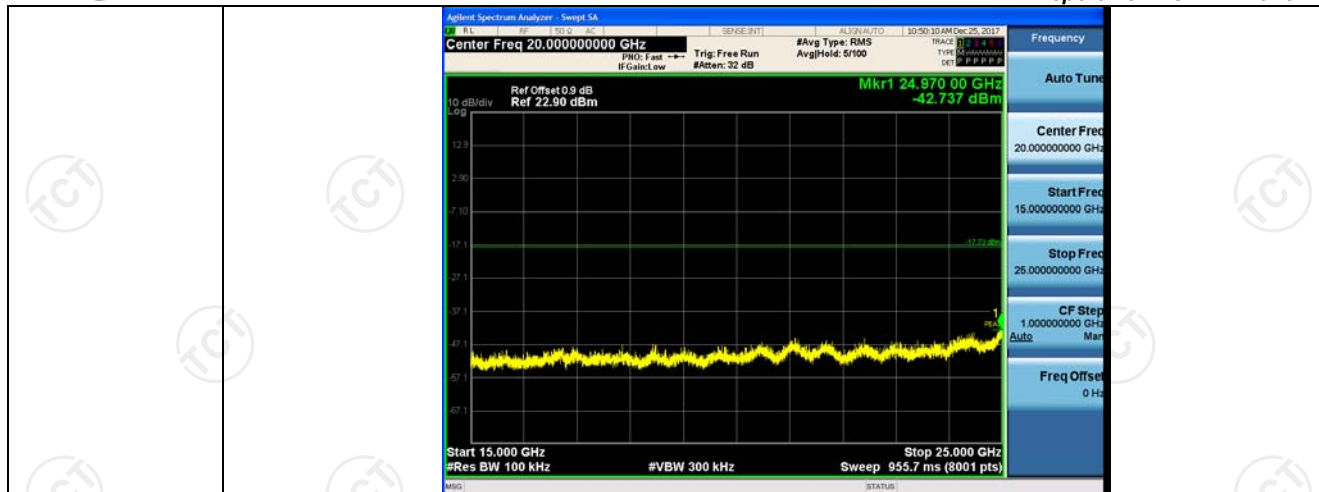




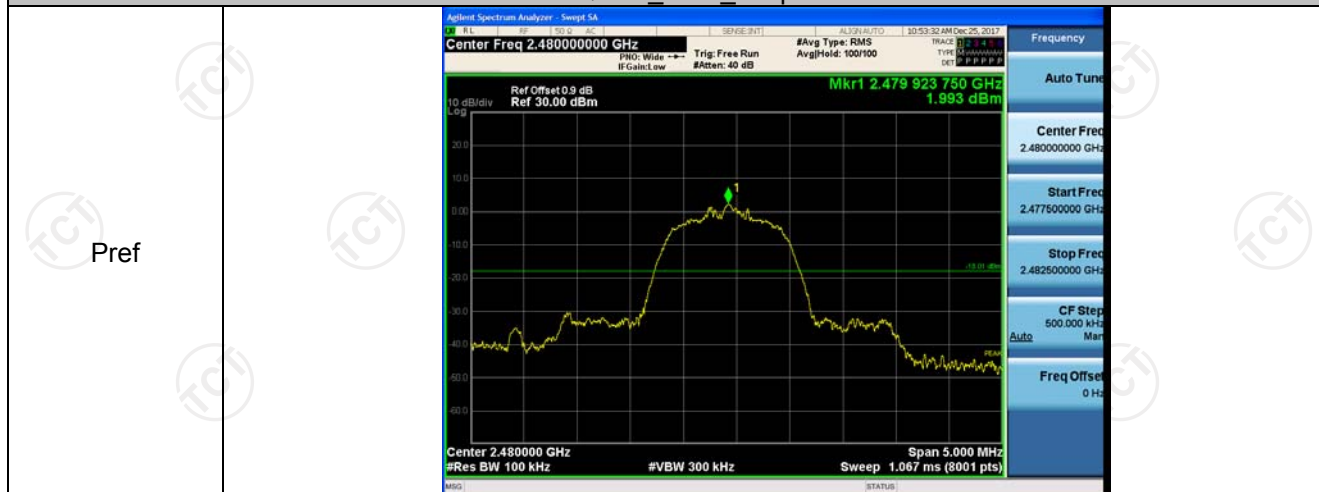




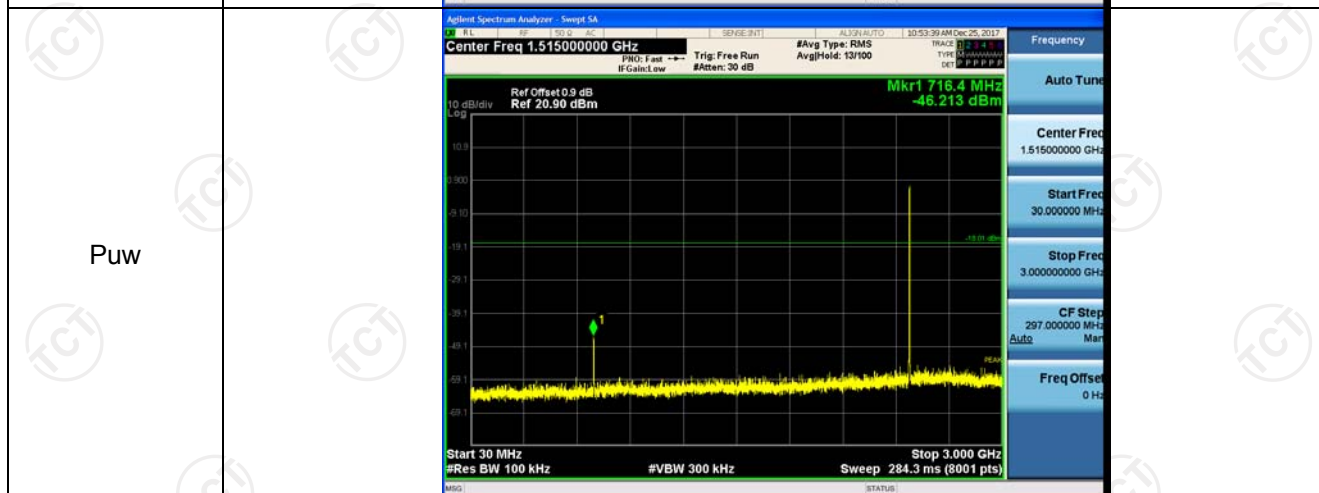




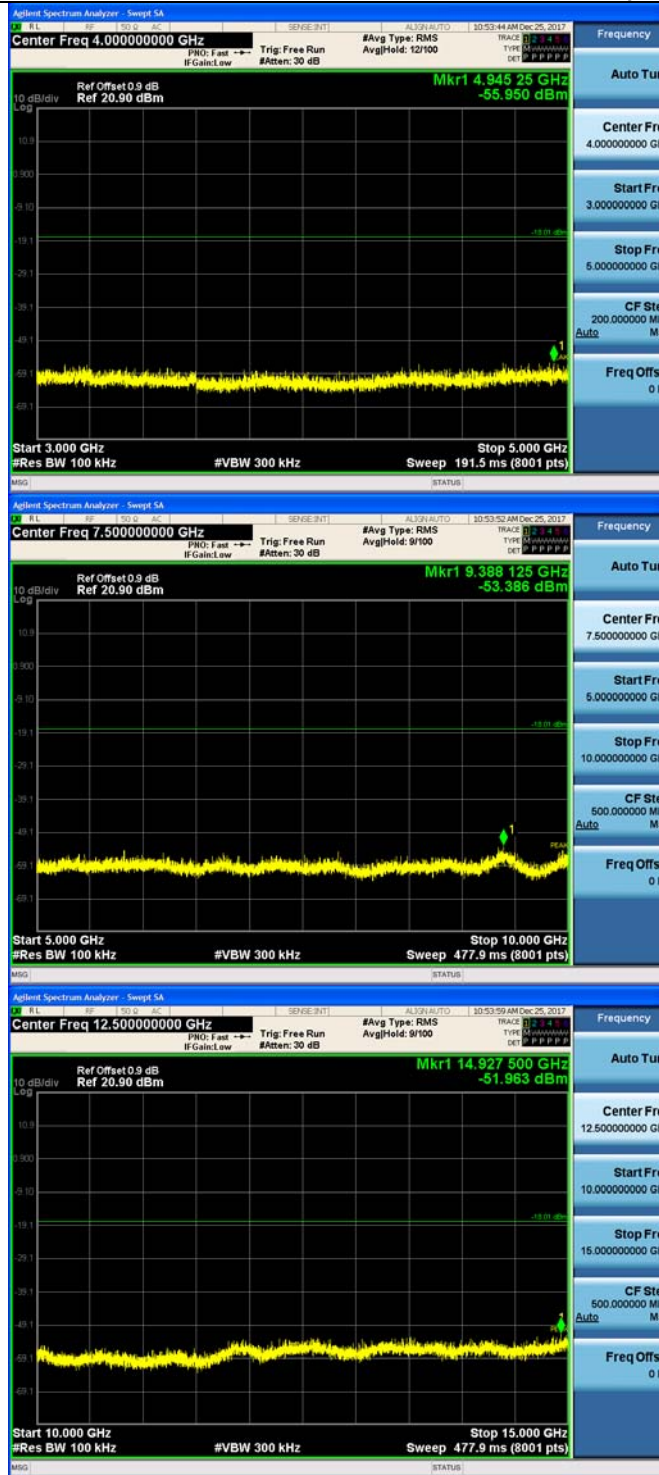
$\pi/4$ DQPSK_HCH_Graphs

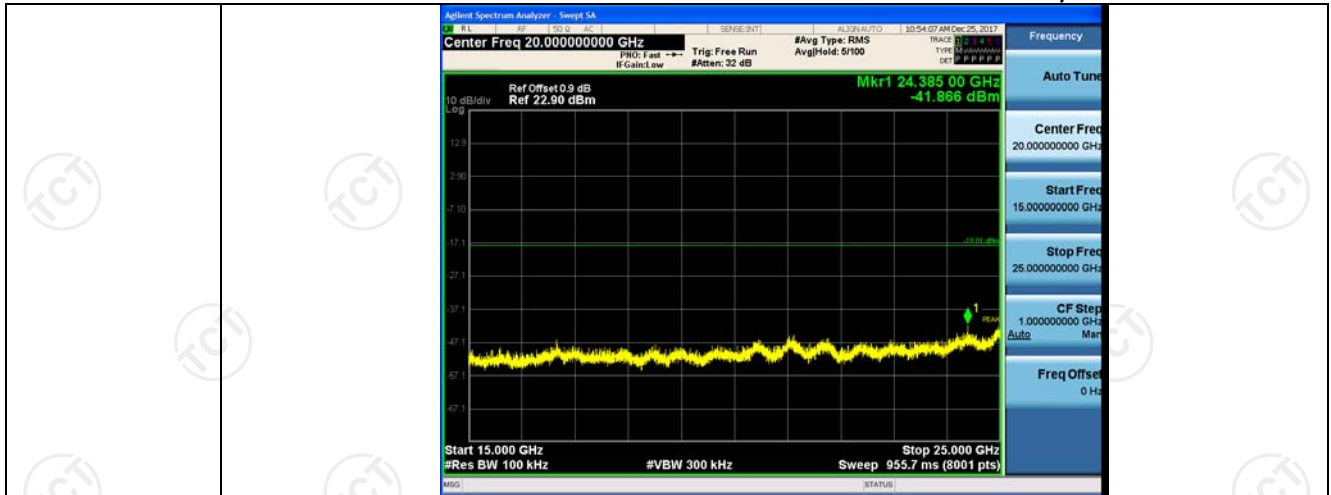


Pref



Puw

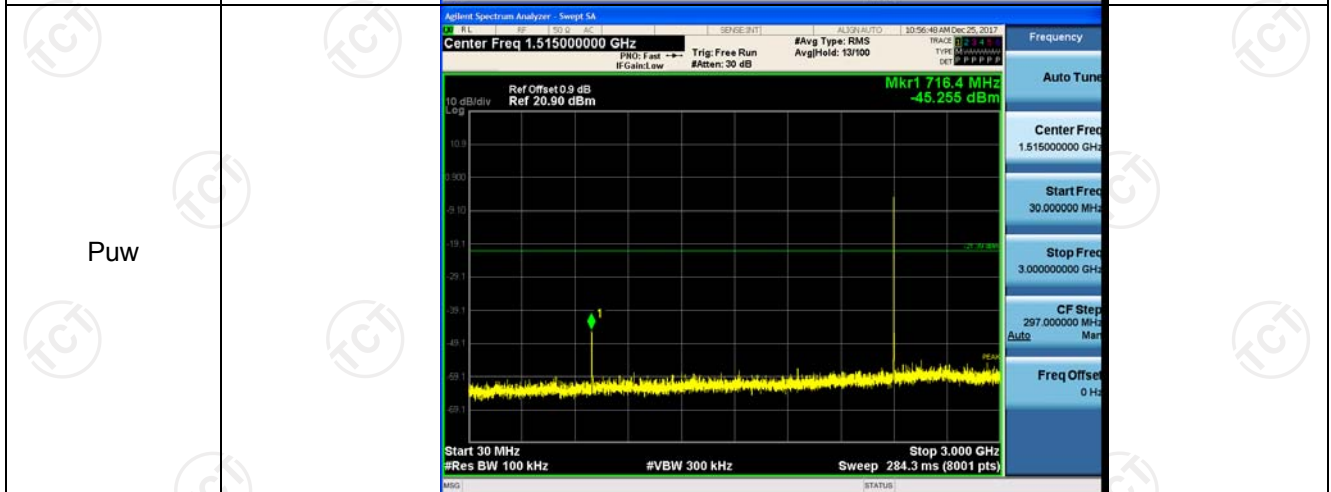




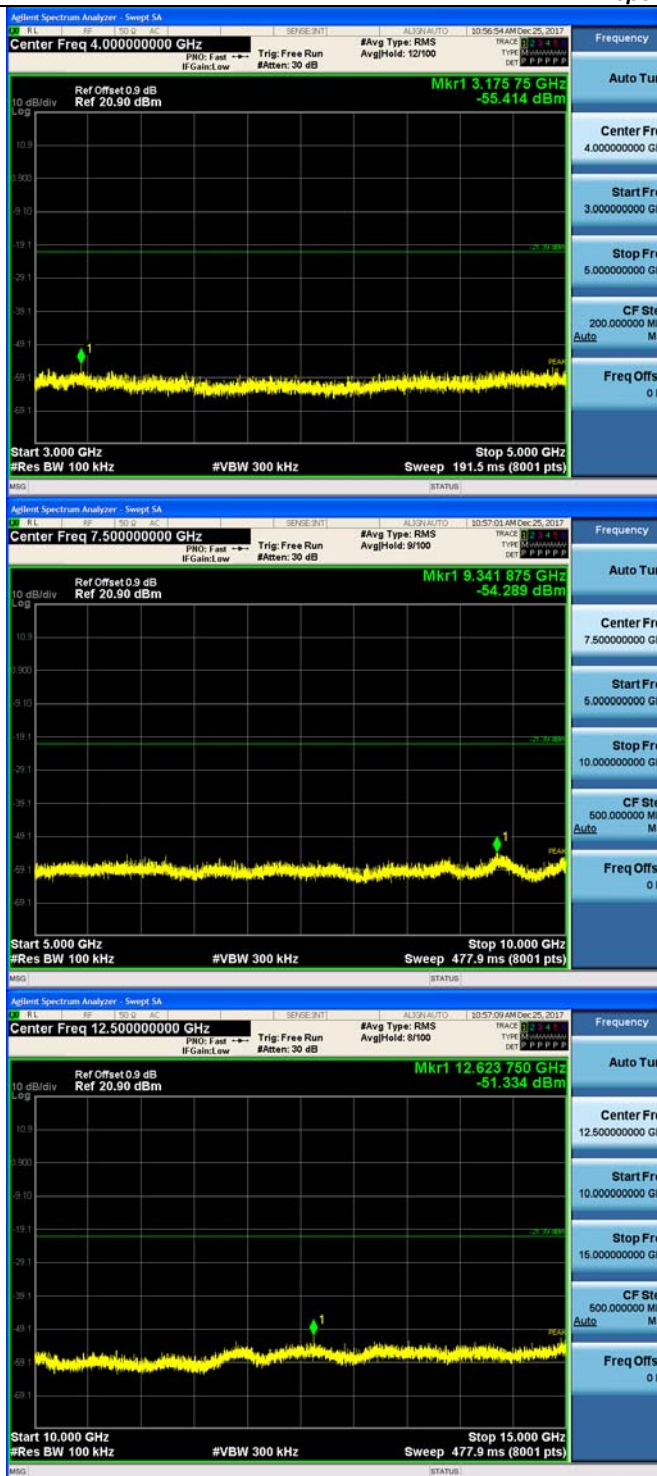
8DPSK_LCH_Graphs

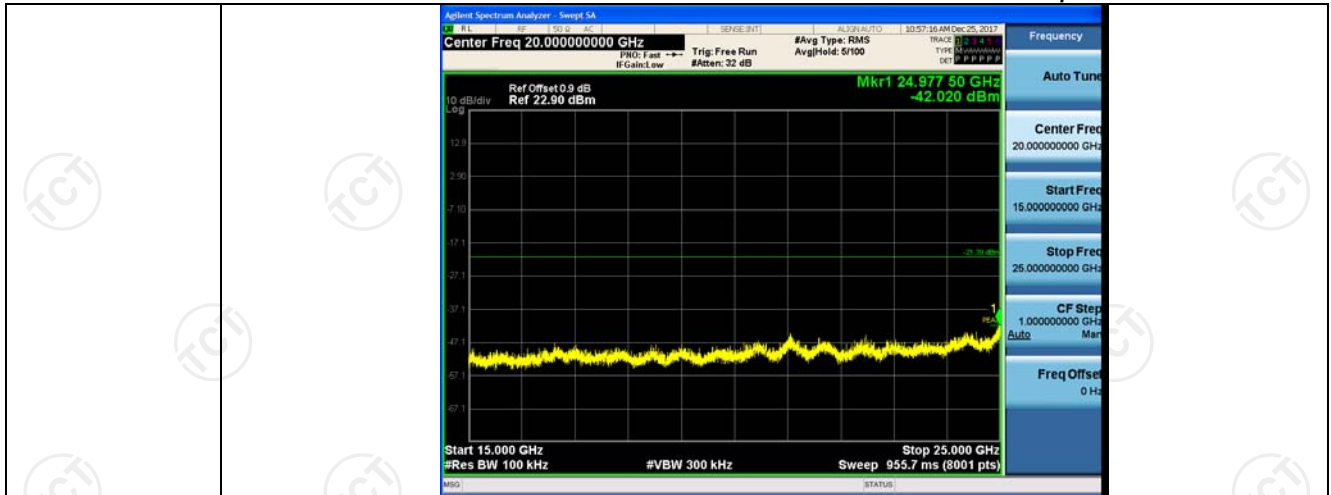


Pref



Puw

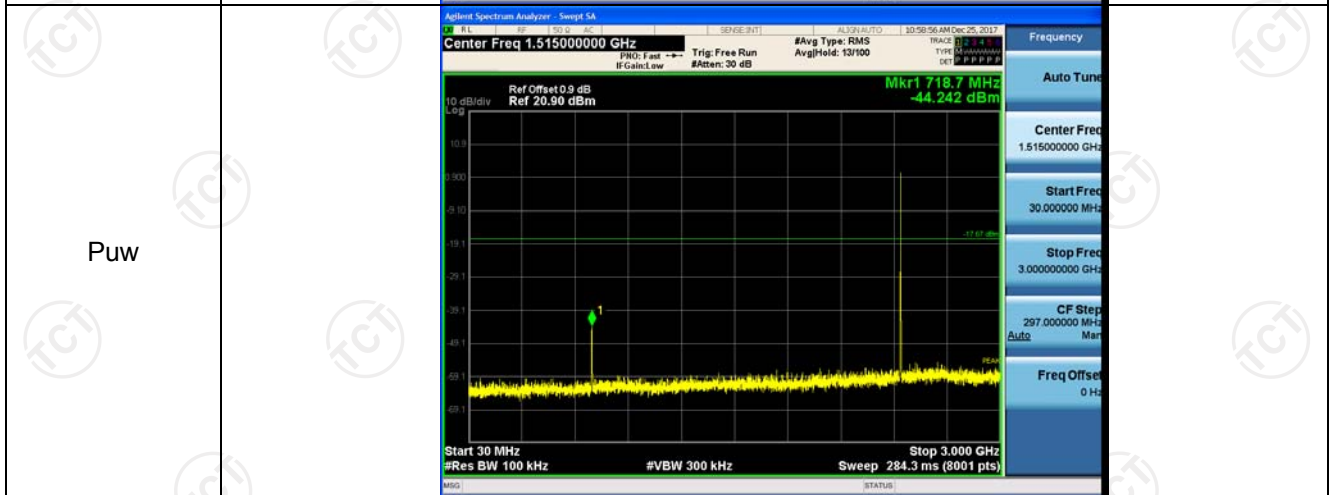




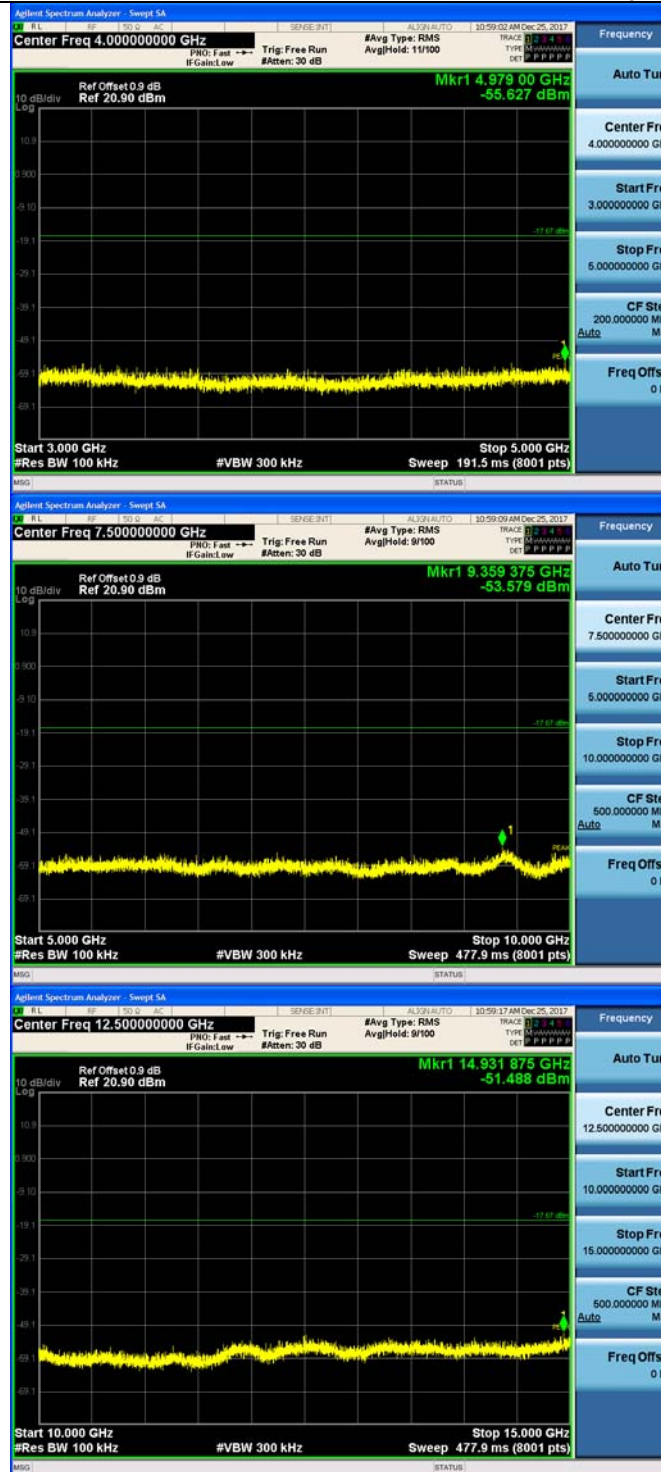
8DPSK MCH Graphs

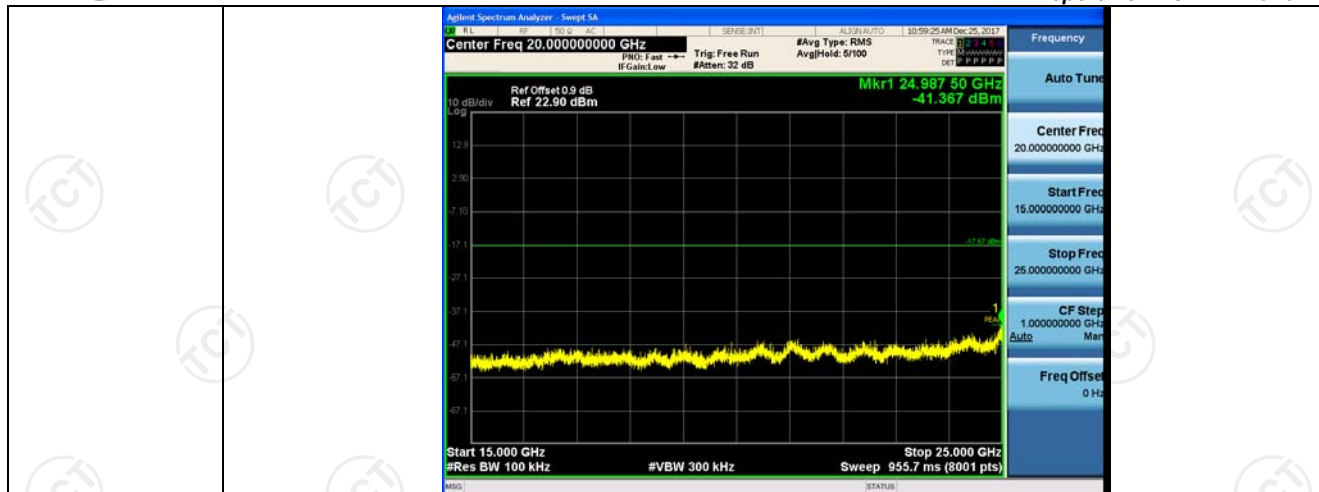


Pref



Puw

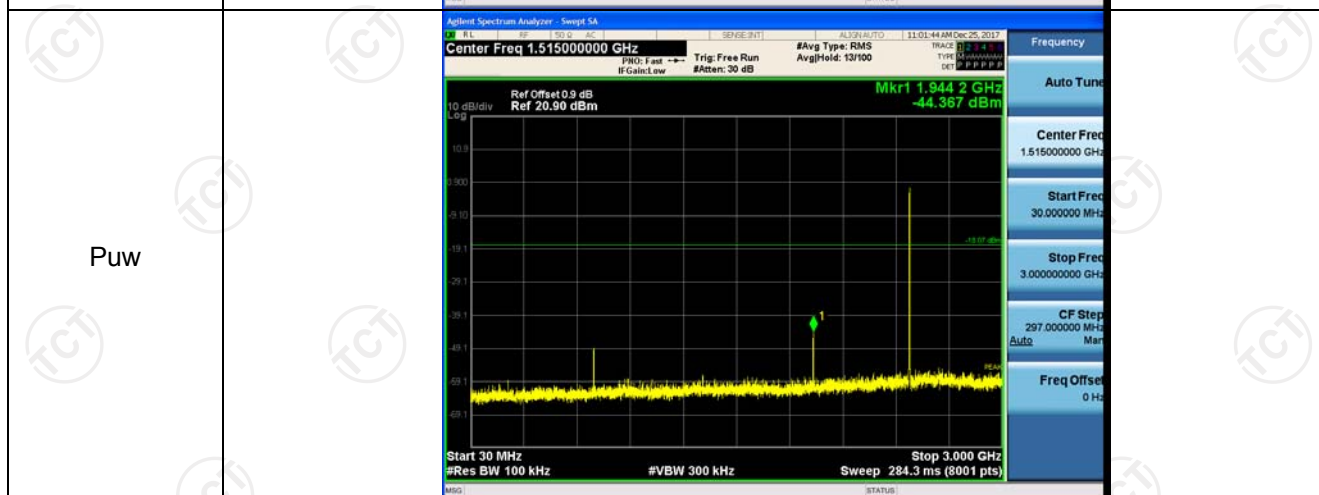




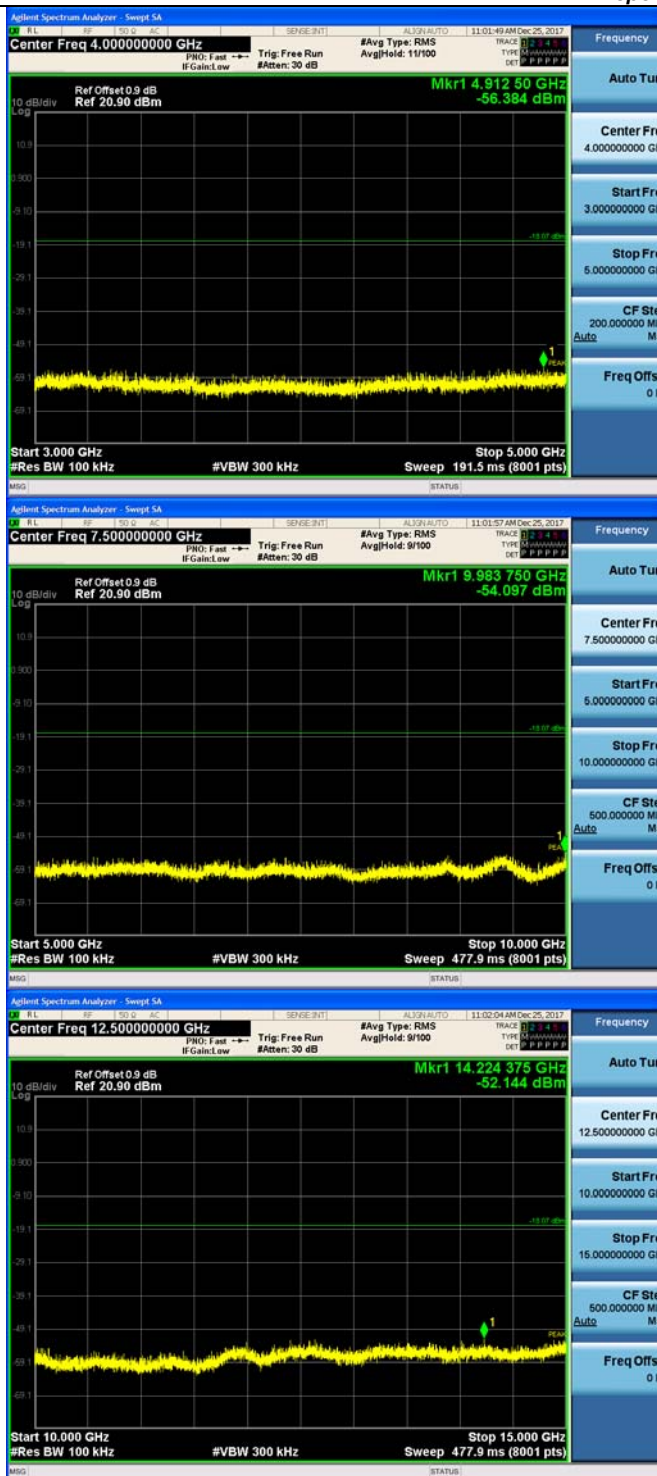
8DPSK HCH Graphs

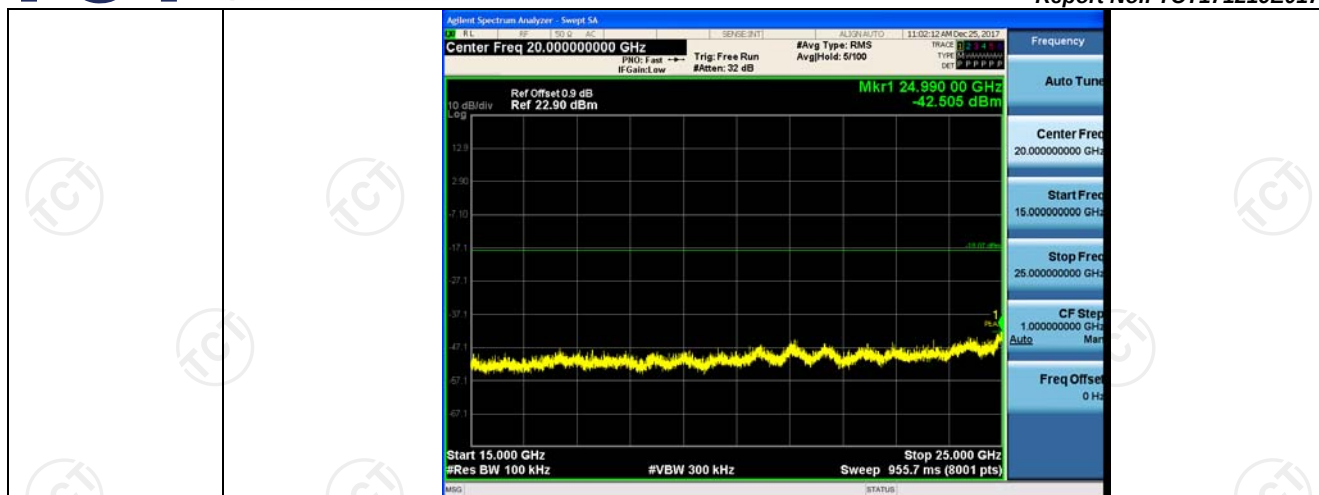


Pref



Puw



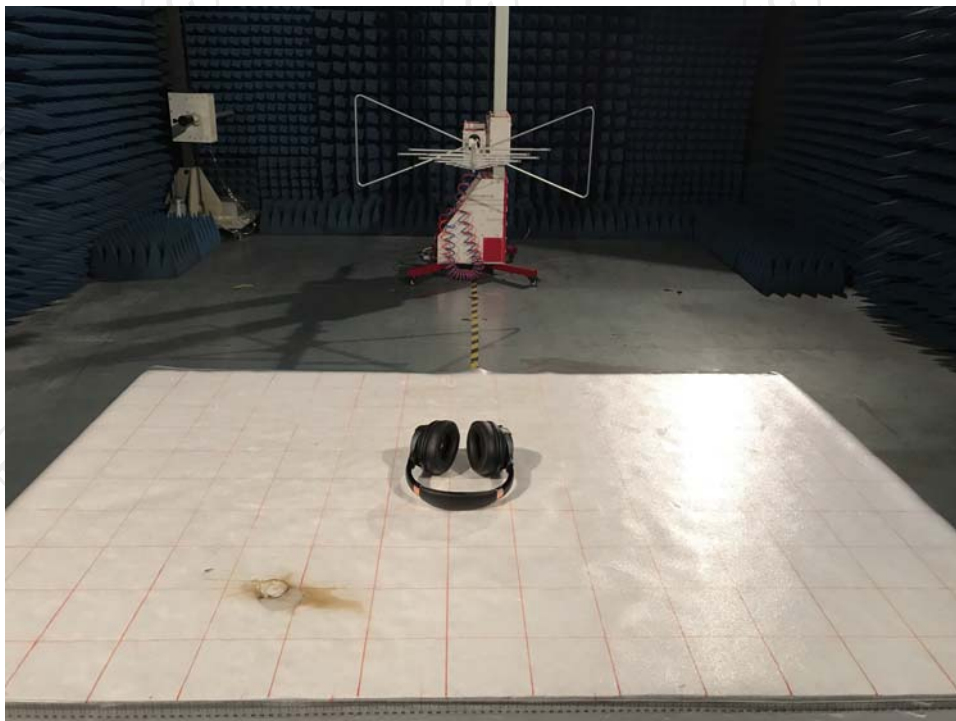


Appendix B: Photographs of Test Setup

Product: EVOLVE 2

Model: XAM26

Radiated Emission



CE



Appendix C: Photographs of EUT
Product: EVOLVE 2
Model: XAM26
External Photos





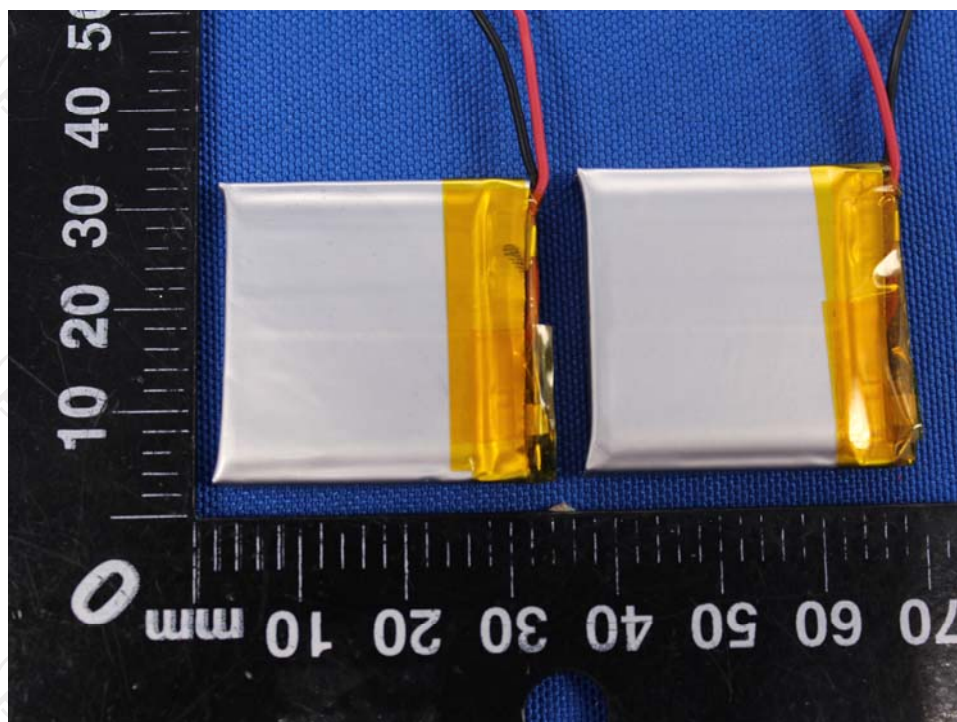
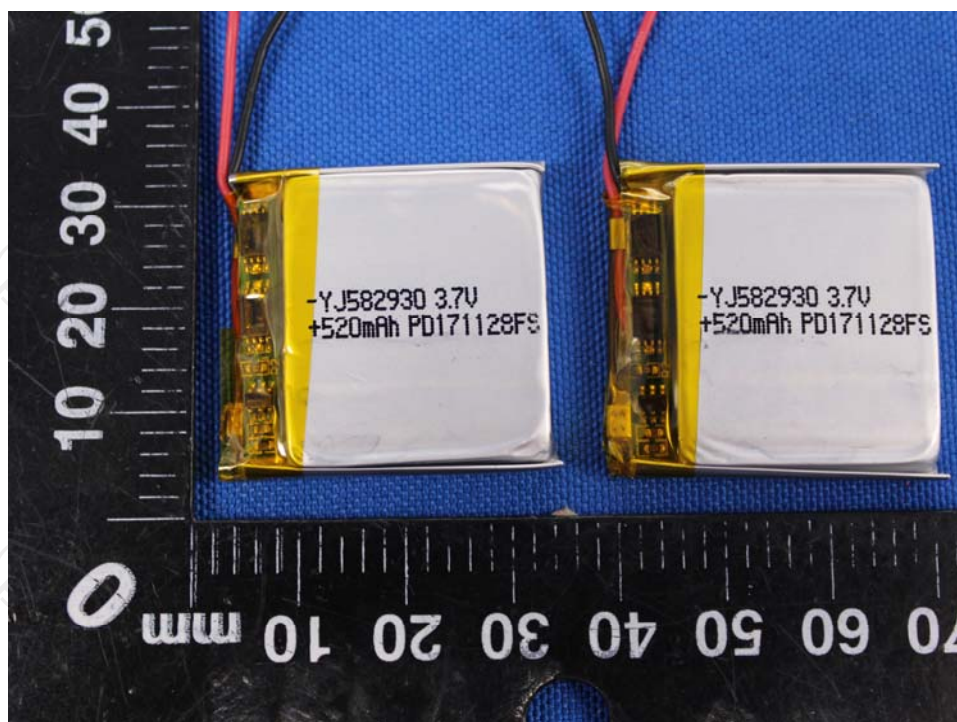


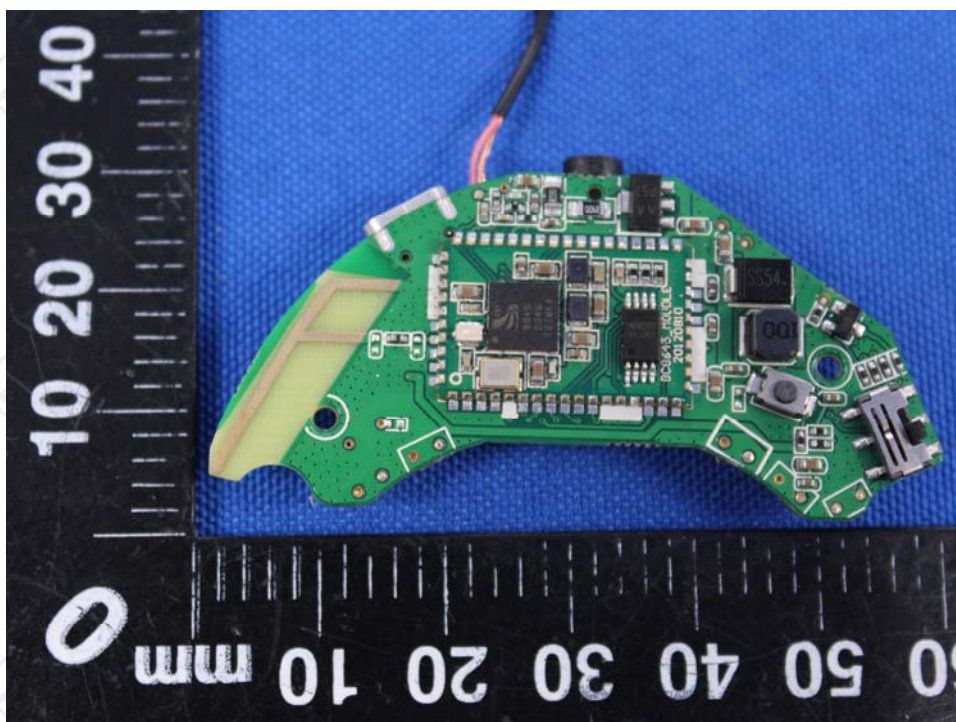
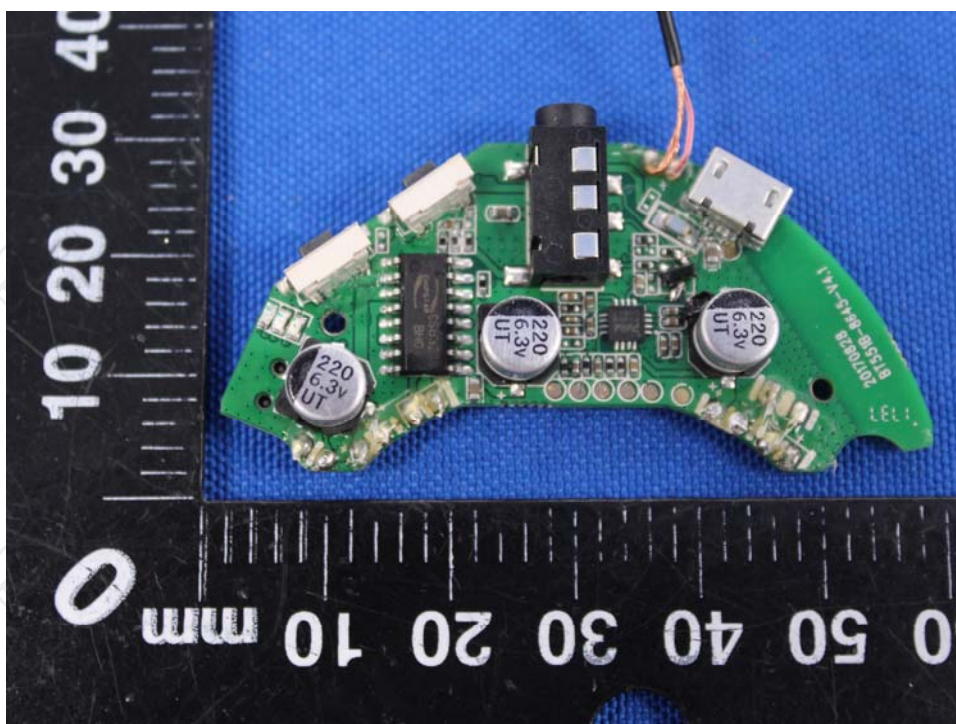


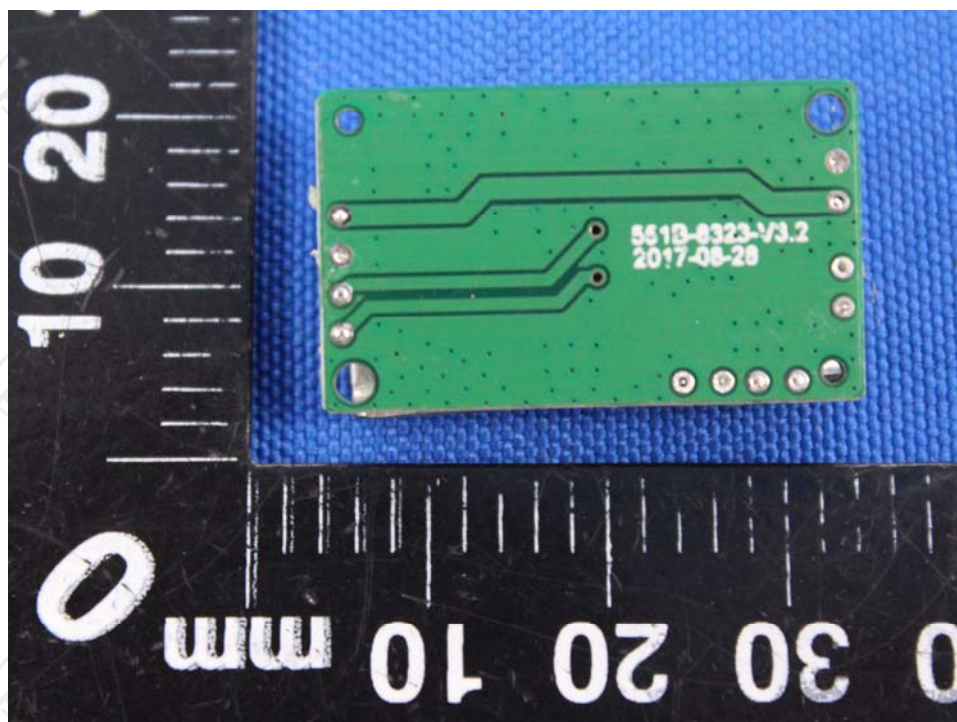
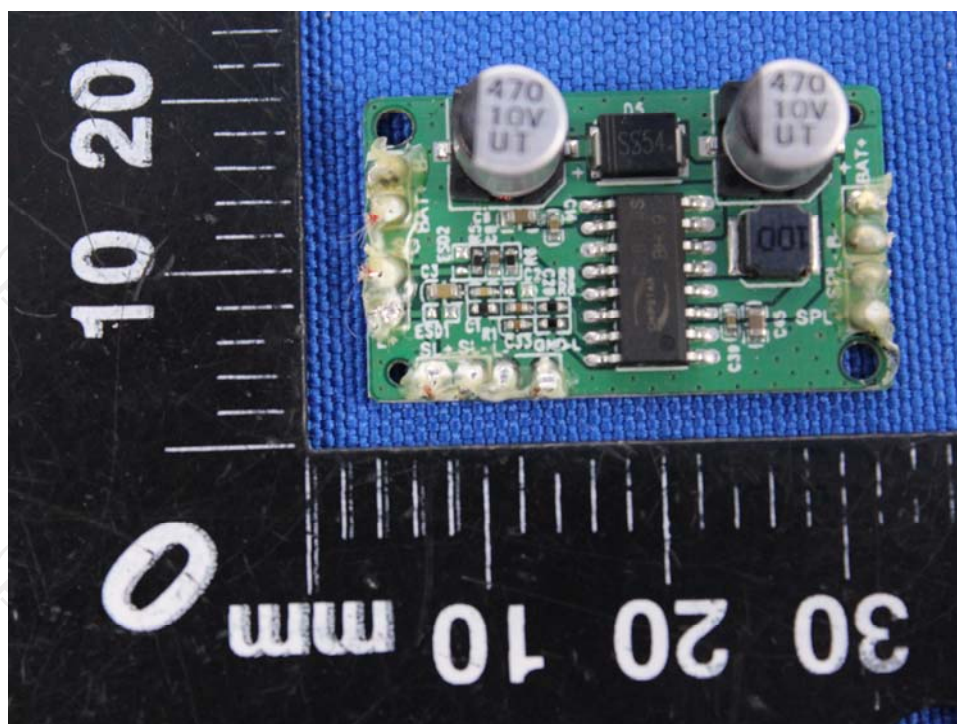


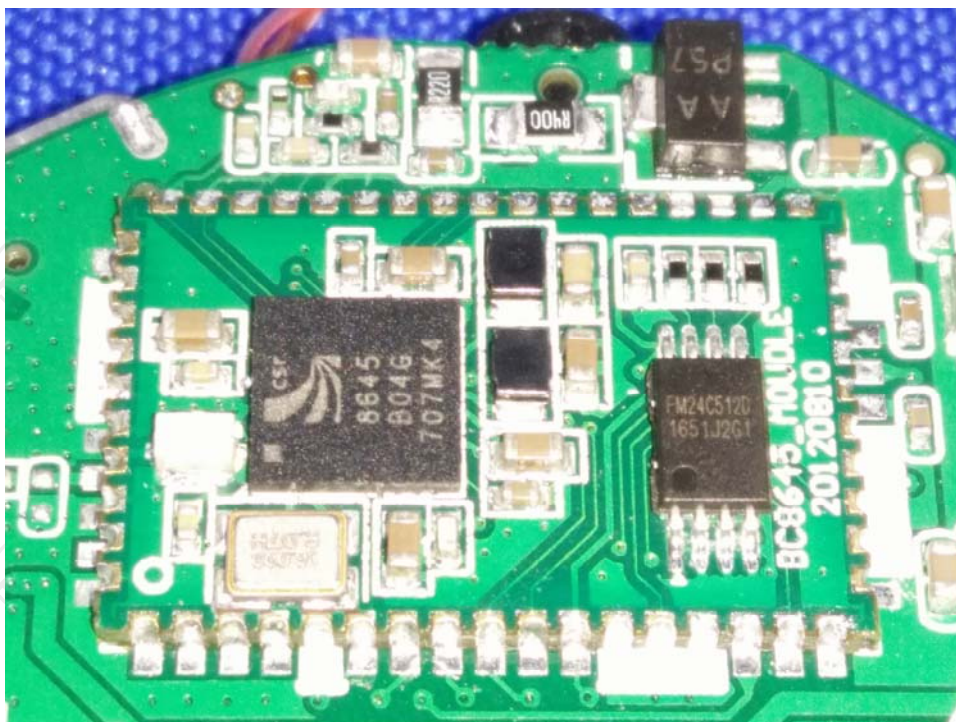
Product: EVOLVE 2
Model: XAM26
Internal Photos











*******END OF REPORT*******