

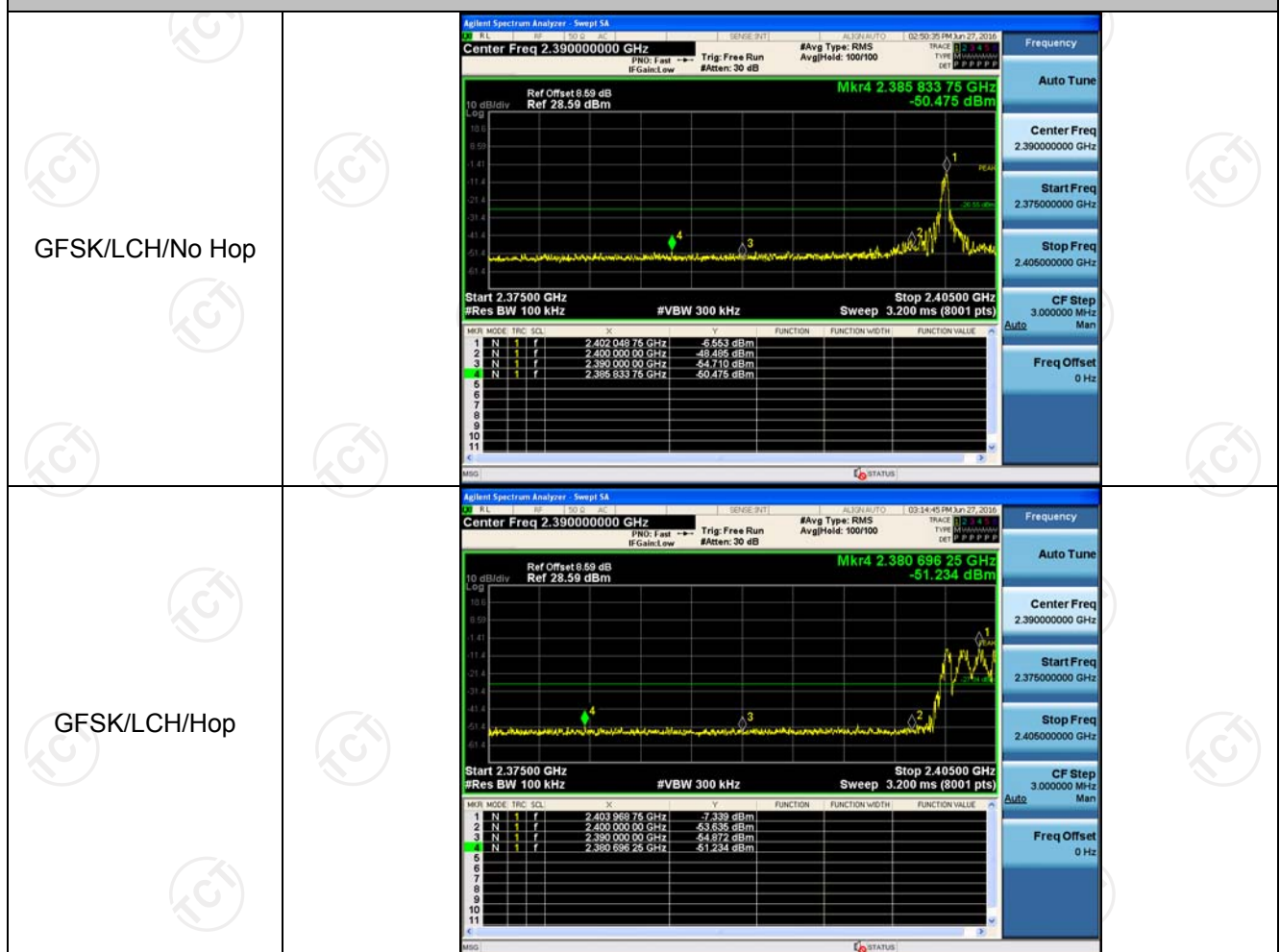
Band-edge for RF Conducted Emissions

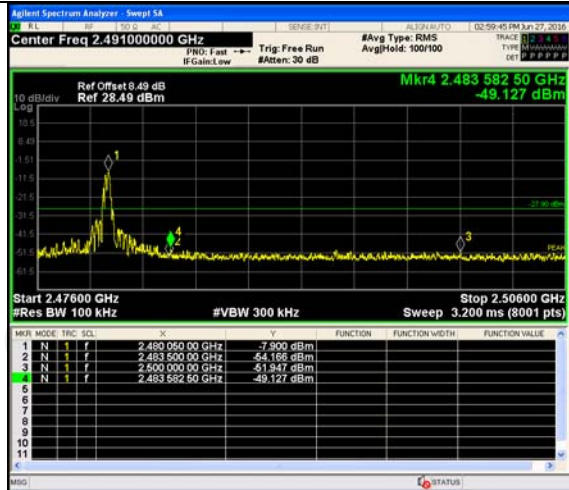
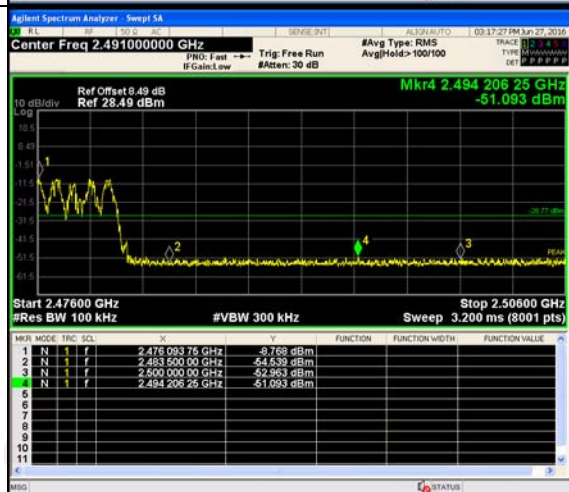
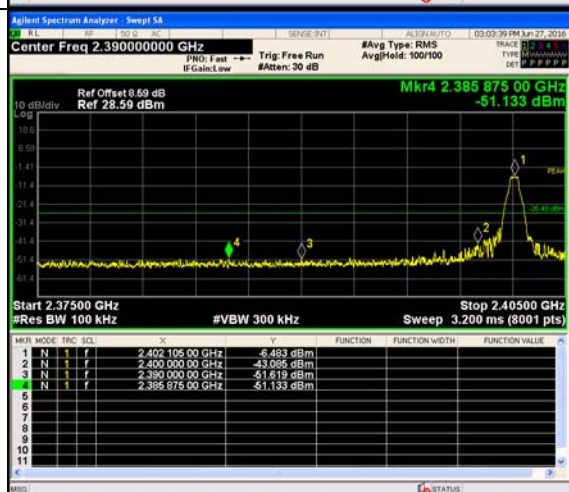
Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-6.553	Off	-50.475	-26.55	PASS
			-7.339	On	-51.234	-27.34	PASS
GFSK	HCH	2480	-7.900	Off	-49.127	-27.9	PASS
			-8.768	On	-51.093	-28.77	PASS
$\pi/4$ DQPSK	LCH	2402	-6.483	Off	-51.133	-26.48	PASS
			-13.593	On	-51.461	-33.59	PASS
$\pi/4$ DQPSK	HCH	2480	-8.731	Off	-48.277	-28.73	PASS
			-15.118	On	-50.849	-35.12	PASS

Test Graph

Graphs

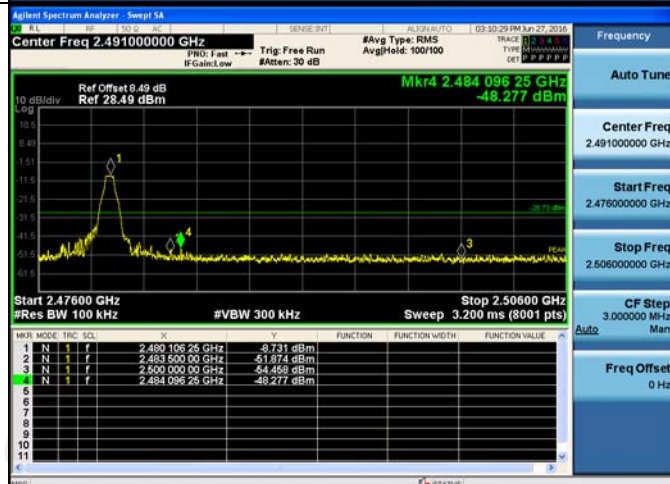


GFSK/HCH/No Hop	 <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.480 050 00 GHz</td><td>-7.900 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.483 500 00 GHz</td><td>-24.166 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>-51.947 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>2.483 582 50 GHz</td><td>-49.127 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	2.480 050 00 GHz	-7.900 dBm				2	N	1	f	2.483 500 00 GHz	-24.166 dBm				3	N	1	f	2.500 000 00 GHz	-51.947 dBm				4	N	1	f	2.483 582 50 GHz	-49.127 dBm				<table><tr><td>Frequency</td><td>Auto Tune</td></tr><tr><td>Center Freq</td><td>2.491000000 GHz</td></tr><tr><td>Start Freq</td><td>2.476000000 GHz</td></tr><tr><td>Stop Freq</td><td>2.506000000 GHz</td></tr><tr><td>CF Step</td><td>3.000000 MHz</td></tr><tr><td>Auto</td><td>Man</td></tr><tr><td>Freq Offset</td><td>0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq	2.491000000 GHz	Start Freq	2.476000000 GHz	Stop Freq	2.506000000 GHz	CF Step	3.000000 MHz	Auto	Man	Freq Offset	0 Hz
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																																					
1	N	1	f	2.480 050 00 GHz	-7.900 dBm																																																								
2	N	1	f	2.483 500 00 GHz	-24.166 dBm																																																								
3	N	1	f	2.500 000 00 GHz	-51.947 dBm																																																								
4	N	1	f	2.483 582 50 GHz	-49.127 dBm																																																								
Frequency	Auto Tune																																																												
Center Freq	2.491000000 GHz																																																												
Start Freq	2.476000000 GHz																																																												
Stop Freq	2.506000000 GHz																																																												
CF Step	3.000000 MHz																																																												
Auto	Man																																																												
Freq Offset	0 Hz																																																												
GFSK/HCH/Hop	 <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>2.476 093 75 GHz</td><td>-8.768 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>-24.539 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>-52.963 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>2.494 206 25 GHz</td><td>-51.093 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	2.476 093 75 GHz	-8.768 dBm				2	N	1	f	2.483 500 00 GHz	-24.539 dBm				3	N	1	f	2.500 000 00 GHz	-52.963 dBm				4	N	1	f	2.494 206 25 GHz	-51.093 dBm				<table><tr><td>Frequency</td><td>Auto Tune</td></tr><tr><td>Center Freq</td><td>2.491000000 GHz</td></tr><tr><td>Start Freq</td><td>2.476000000 GHz</td></tr><tr><td>Stop Freq</td><td>2.506000000 GHz</td></tr><tr><td>CF Step</td><td>3.000000 MHz</td></tr><tr><td>Auto</td><td>Man</td></tr><tr><td>Freq Offset</td><td>0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq	2.491000000 GHz	Start Freq	2.476000000 GHz	Stop Freq	2.506000000 GHz	CF Step	3.000000 MHz	Auto	Man	Freq Offset	0 Hz
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																																					
1	N	1	f	2.476 093 75 GHz	-8.768 dBm																																																								
2	N	1	f	2.483 500 00 GHz	-24.539 dBm																																																								
3	N	1	f	2.500 000 00 GHz	-52.963 dBm																																																								
4	N	1	f	2.494 206 25 GHz	-51.093 dBm																																																								
Frequency	Auto Tune																																																												
Center Freq	2.491000000 GHz																																																												
Start Freq	2.476000000 GHz																																																												
Stop Freq	2.506000000 GHz																																																												
CF Step	3.000000 MHz																																																												
Auto	Man																																																												
Freq Offset	0 Hz																																																												
$\pi/4$ DQPSK/LCH/No Hop	 <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>2.402 105 00 GHz</td><td>-6.483 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>-43.085 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>-51.619 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>2.385 875 00 GHz</td><td>-51.133 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	2.402 105 00 GHz	-6.483 dBm				2	N	1	f	2.400 000 00 GHz	-43.085 dBm				3	N	1	f	2.390 000 00 GHz	-51.619 dBm				4	N	1	f	2.385 875 00 GHz	-51.133 dBm				<table><tr><td>Frequency</td><td>Auto Tune</td></tr><tr><td>Center Freq</td><td>2.390000000 GHz</td></tr><tr><td>Start Freq</td><td>2.375000000 GHz</td></tr><tr><td>Stop Freq</td><td>2.405000000 GHz</td></tr><tr><td>CF Step</td><td>3.000000 MHz</td></tr><tr><td>Auto</td><td>Man</td></tr><tr><td>Freq Offset</td><td>0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq	2.390000000 GHz	Start Freq	2.375000000 GHz	Stop Freq	2.405000000 GHz	CF Step	3.000000 MHz	Auto	Man	Freq Offset	0 Hz
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																																					
1	N	1	f	2.402 105 00 GHz	-6.483 dBm																																																								
2	N	1	f	2.400 000 00 GHz	-43.085 dBm																																																								
3	N	1	f	2.390 000 00 GHz	-51.619 dBm																																																								
4	N	1	f	2.385 875 00 GHz	-51.133 dBm																																																								
Frequency	Auto Tune																																																												
Center Freq	2.390000000 GHz																																																												
Start Freq	2.375000000 GHz																																																												
Stop Freq	2.405000000 GHz																																																												
CF Step	3.000000 MHz																																																												
Auto	Man																																																												
Freq Offset	0 Hz																																																												

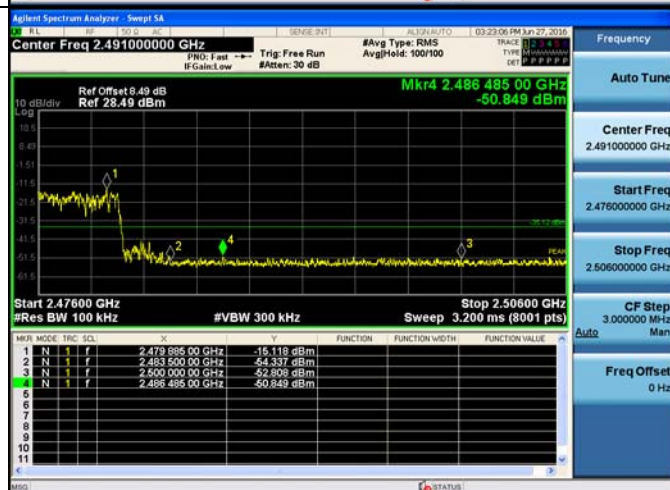
$\pi/4$ DQPSK/LCH/Hop



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



$\pi/4$ DQPSK/HCH/Hop

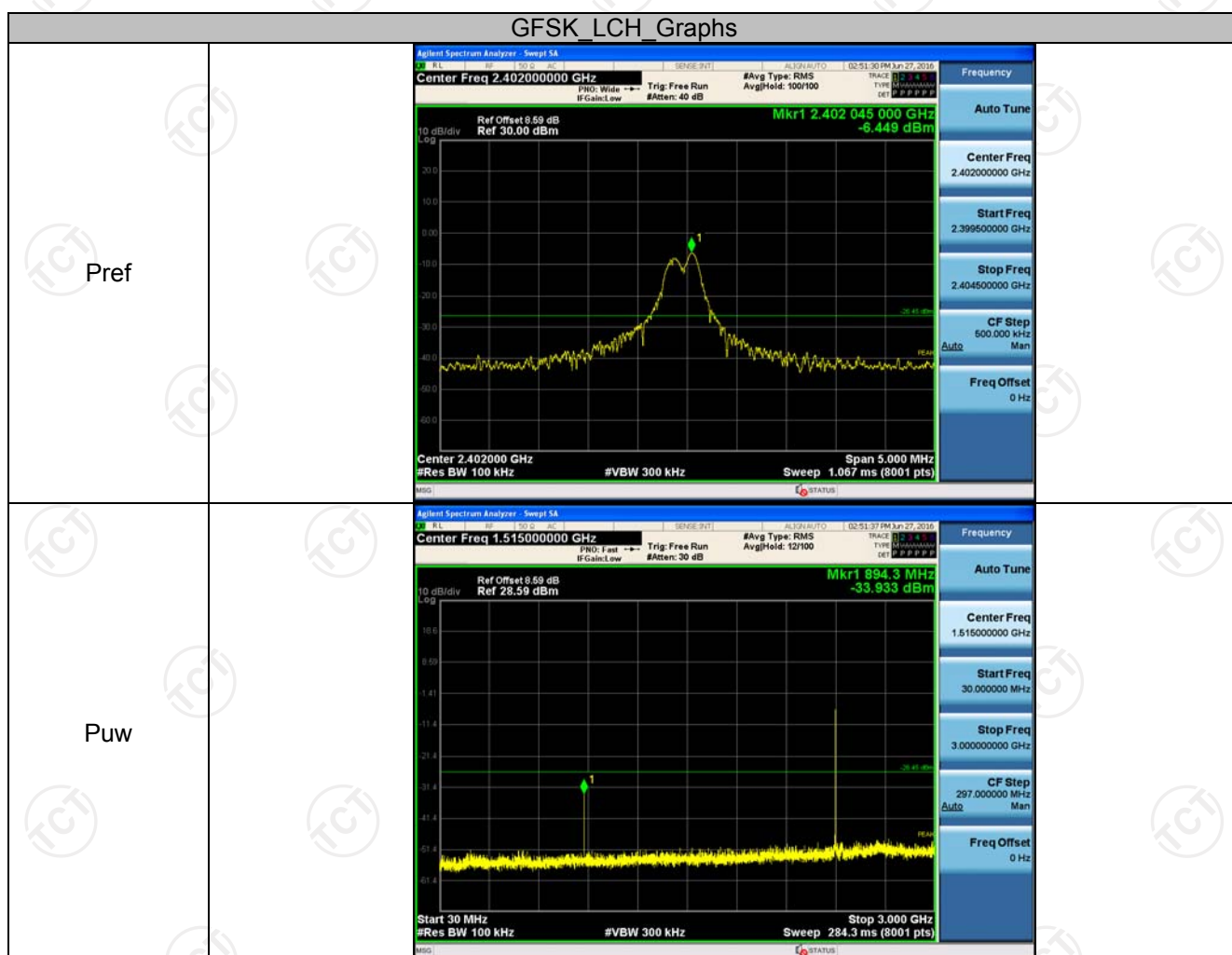


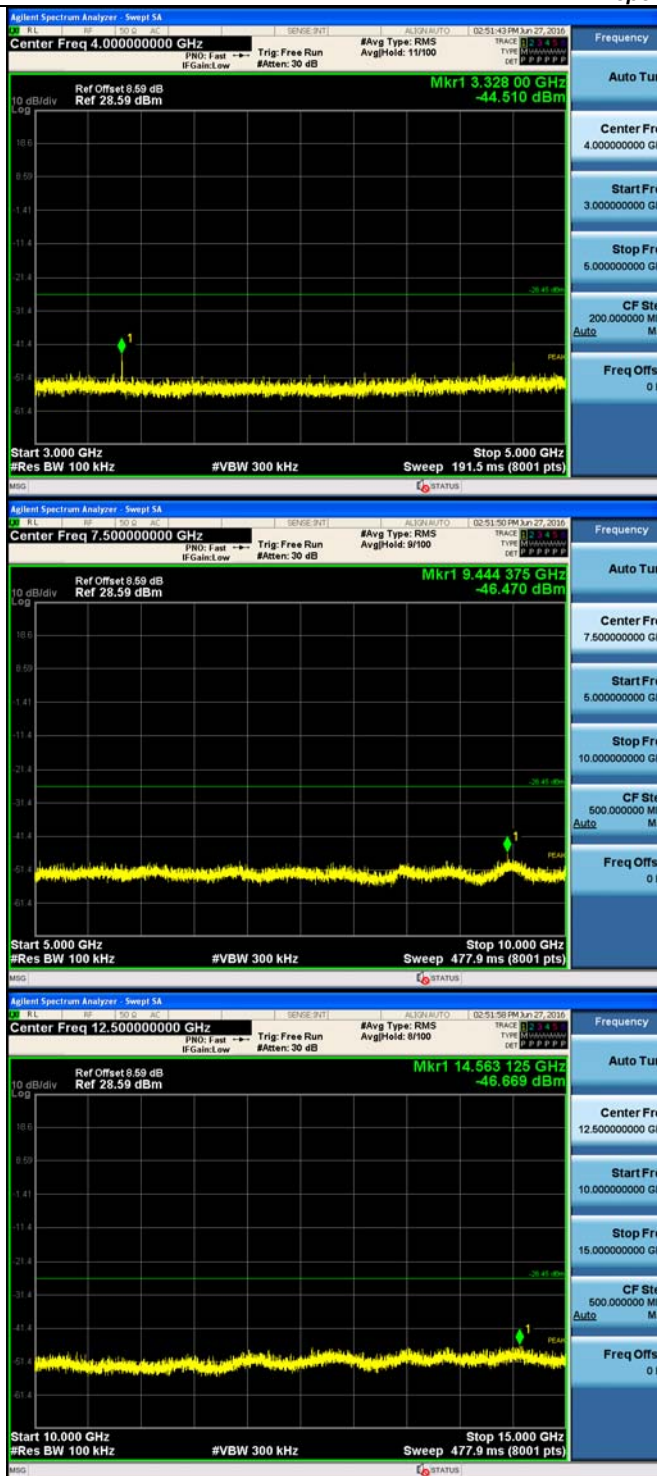
RF Conducted Spurious Emissions

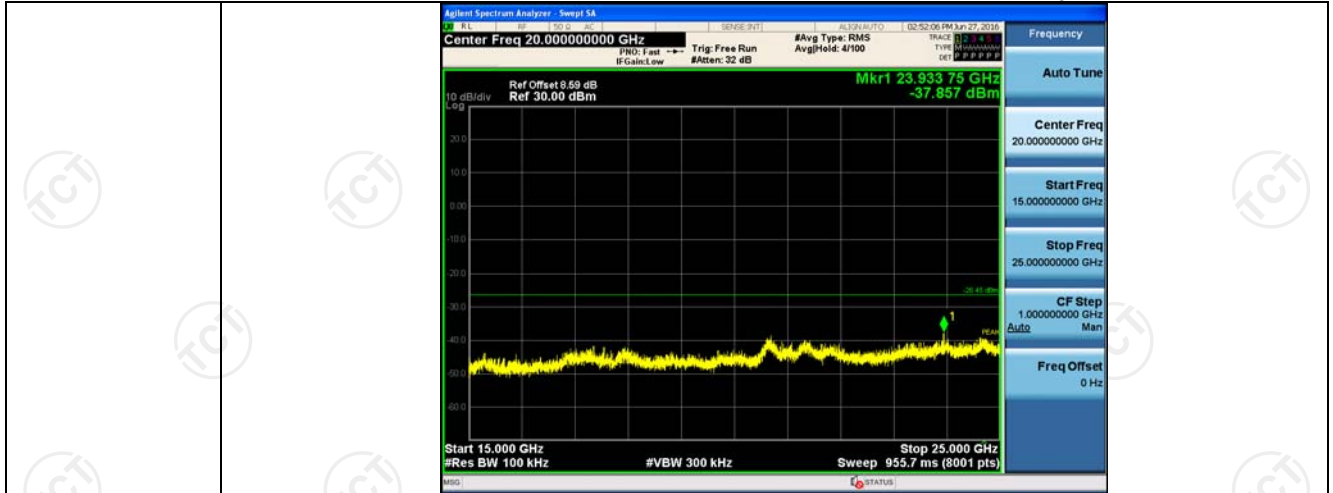
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	-6.449	<Limit	PASS
GFSK	MCH	-8.618	<Limit	PASS
GFSK	HCH	-7.713	<Limit	PASS
$\pi/4$ DQPSK	LCH	-6.6	<Limit	PASS
$\pi/4$ DQPSK	MCH	-8.989	<Limit	PASS
$\pi/4$ DQPSK	HCH	-8.709	<Limit	PASS

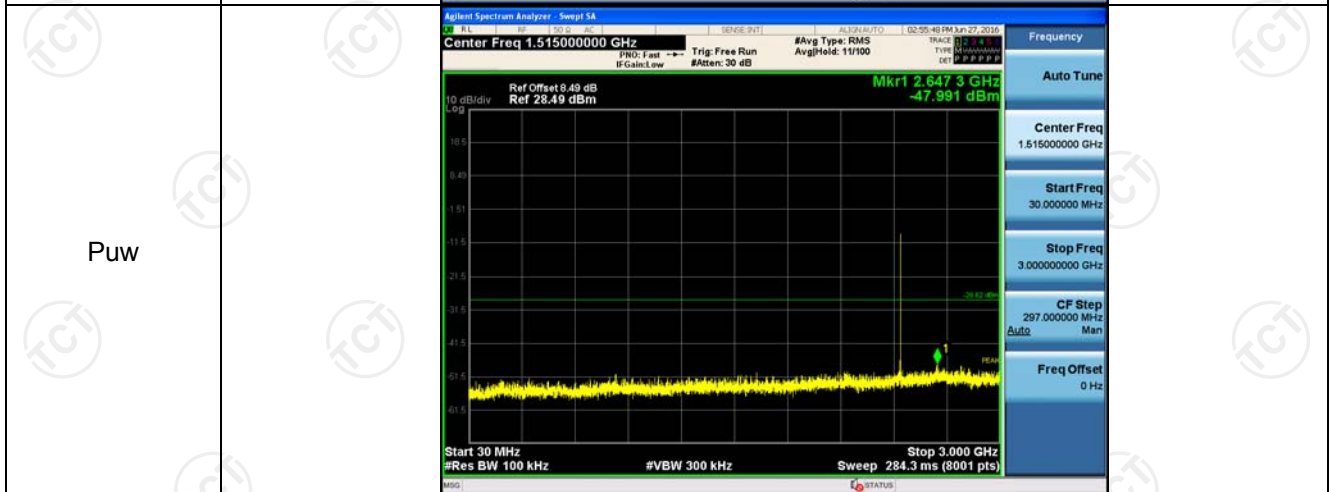
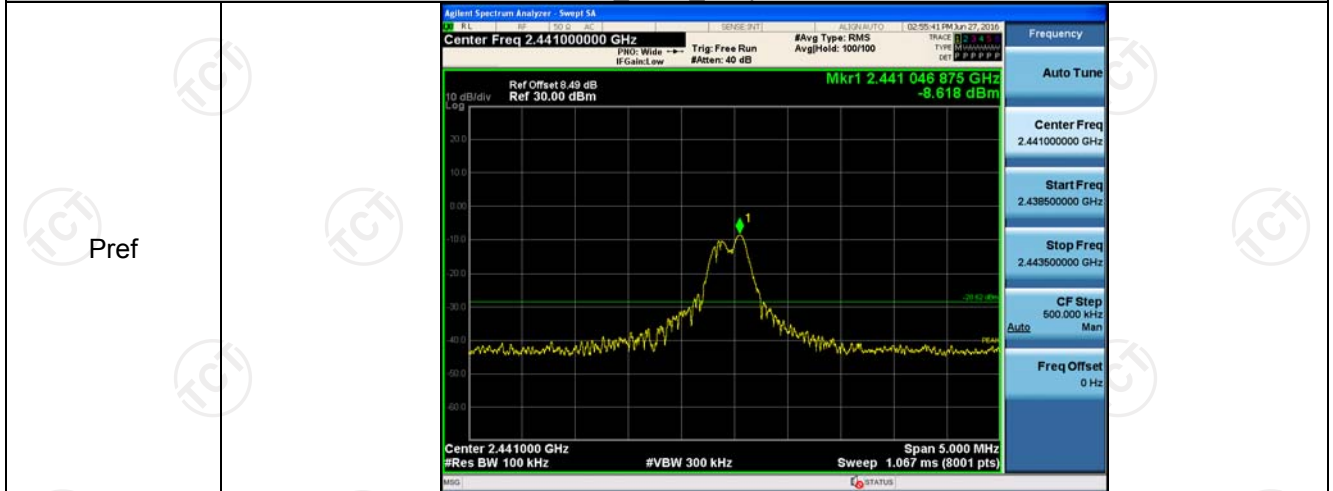
Test Graph

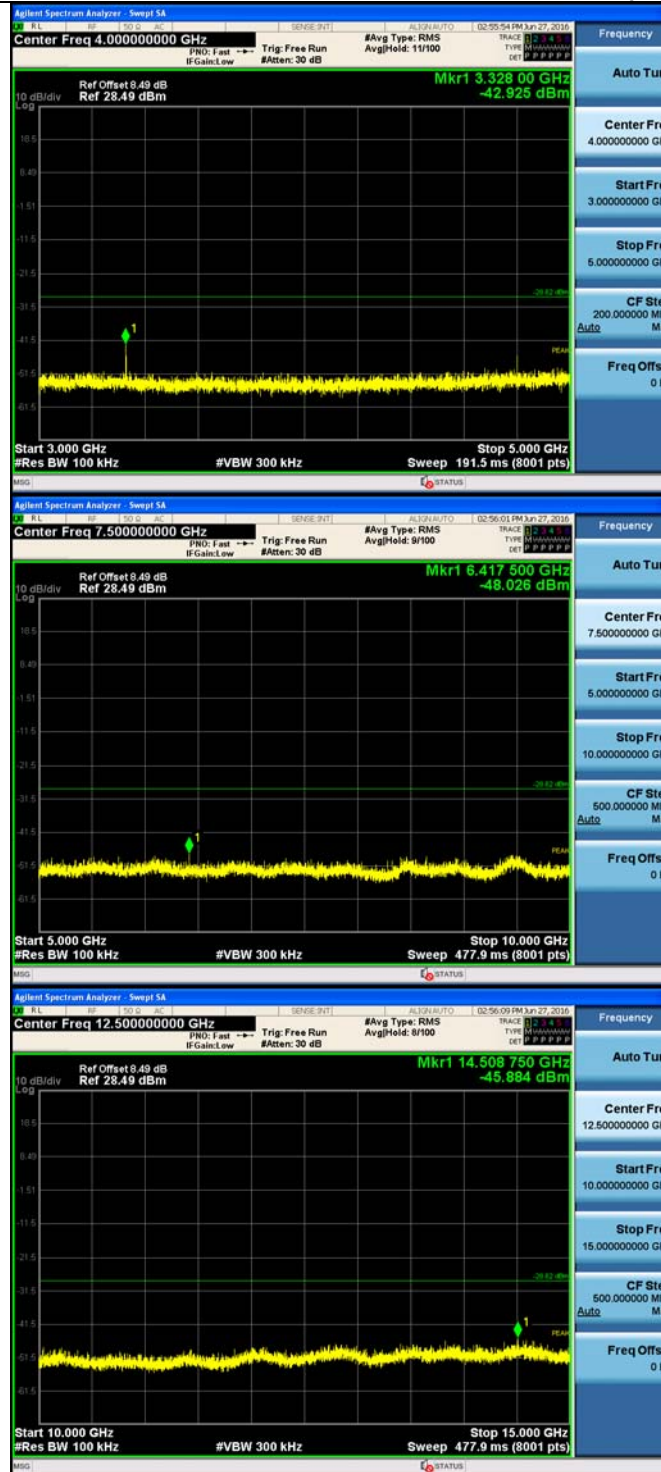


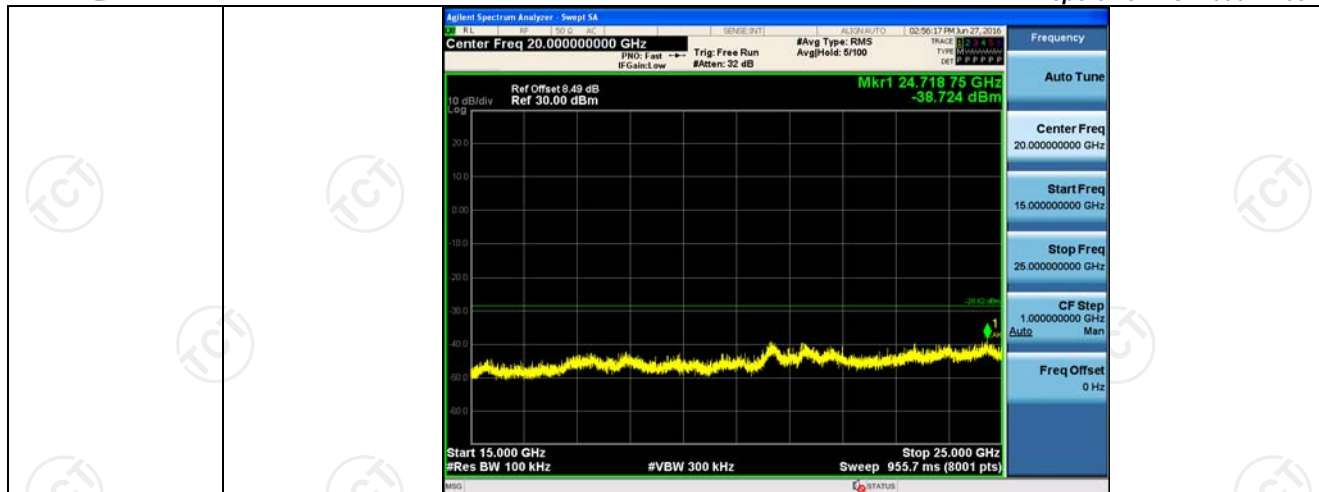




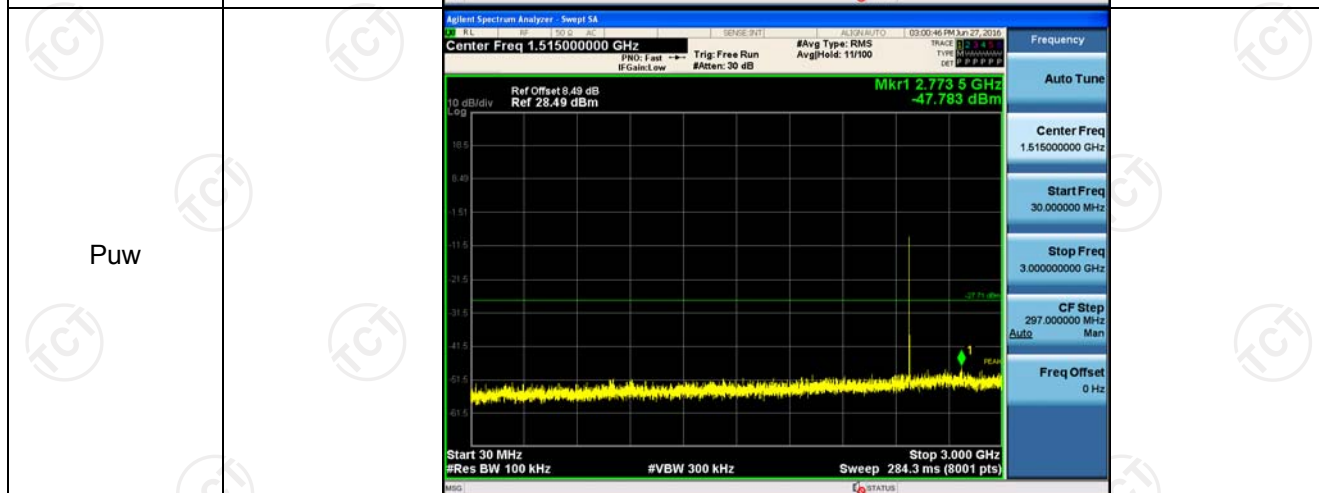
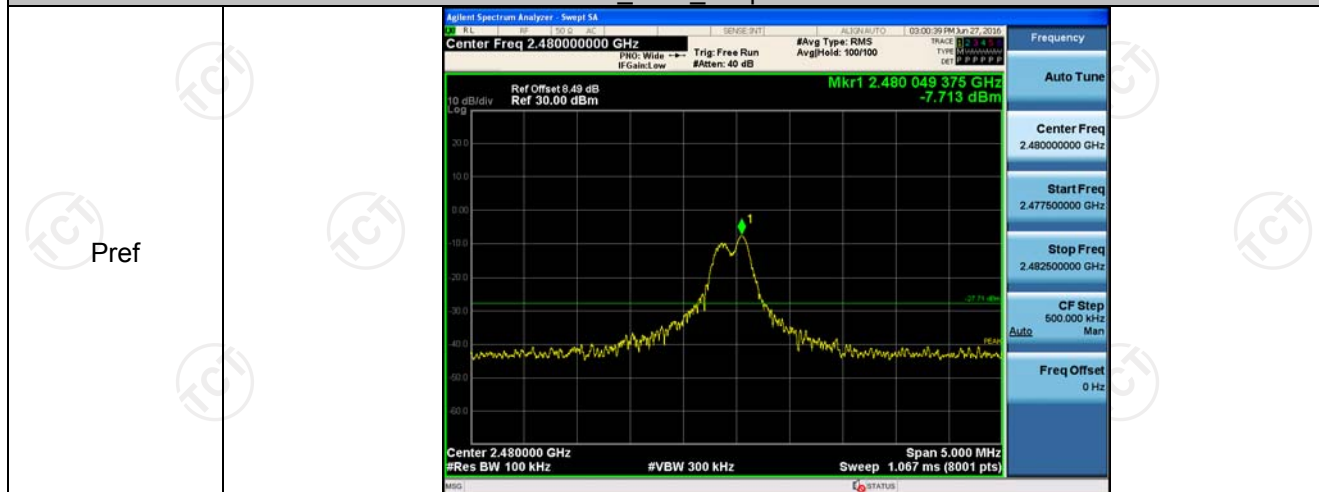
GFSK MCH_Graphs

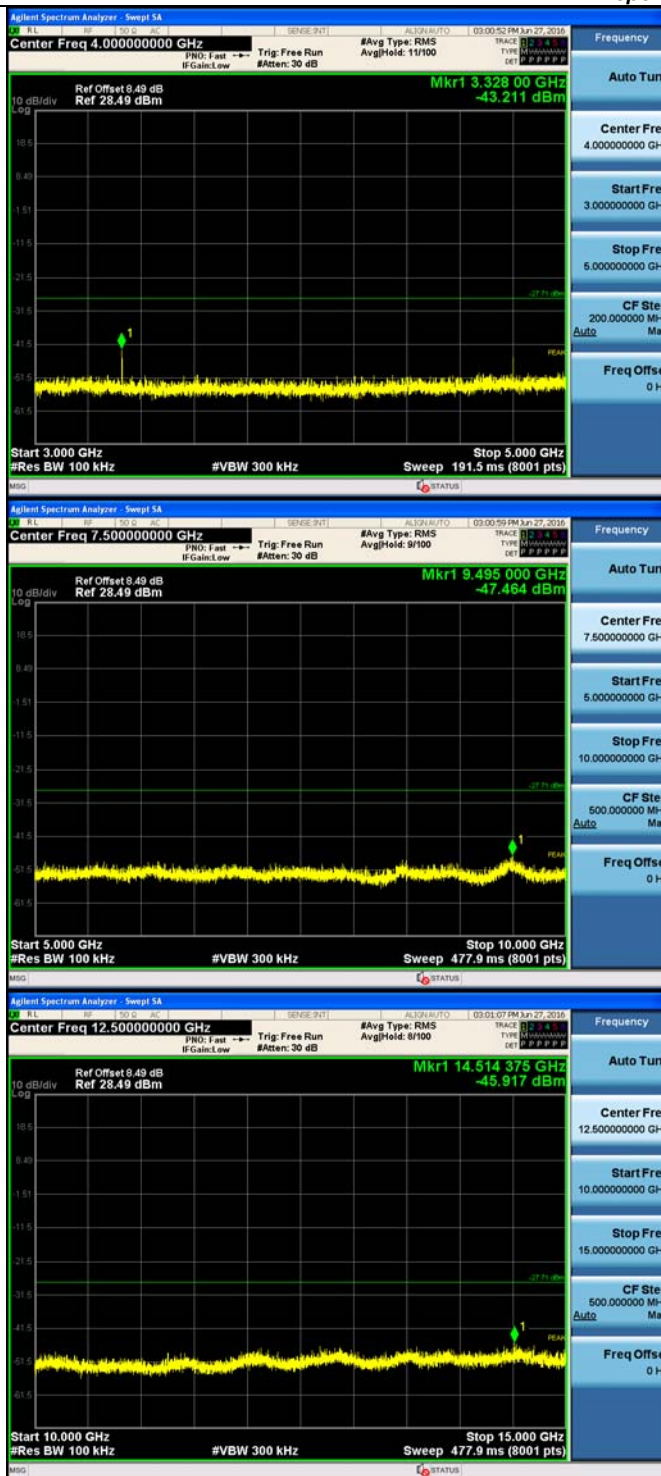


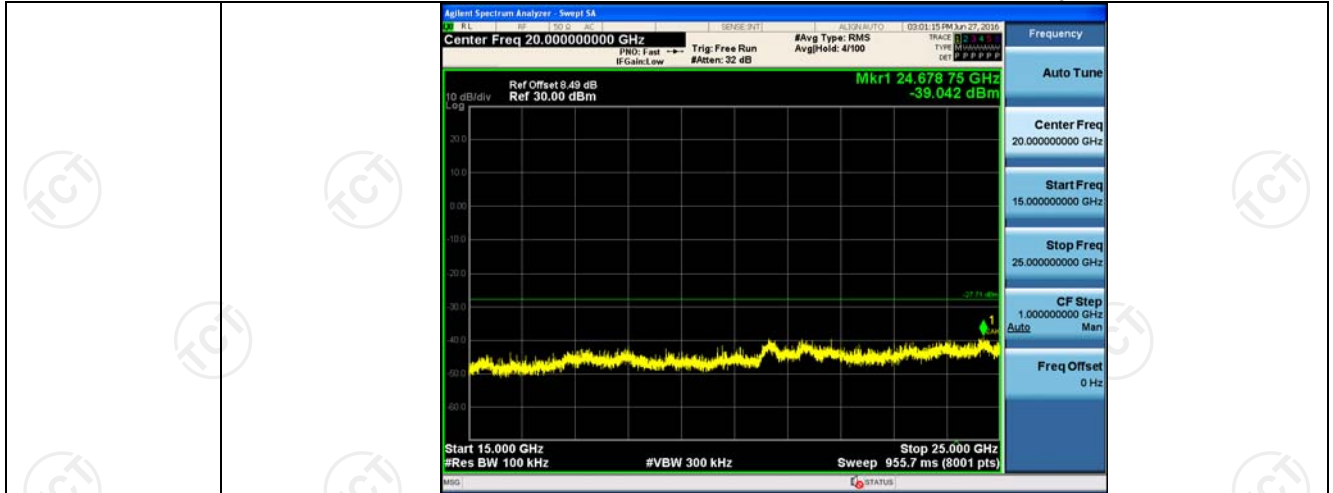




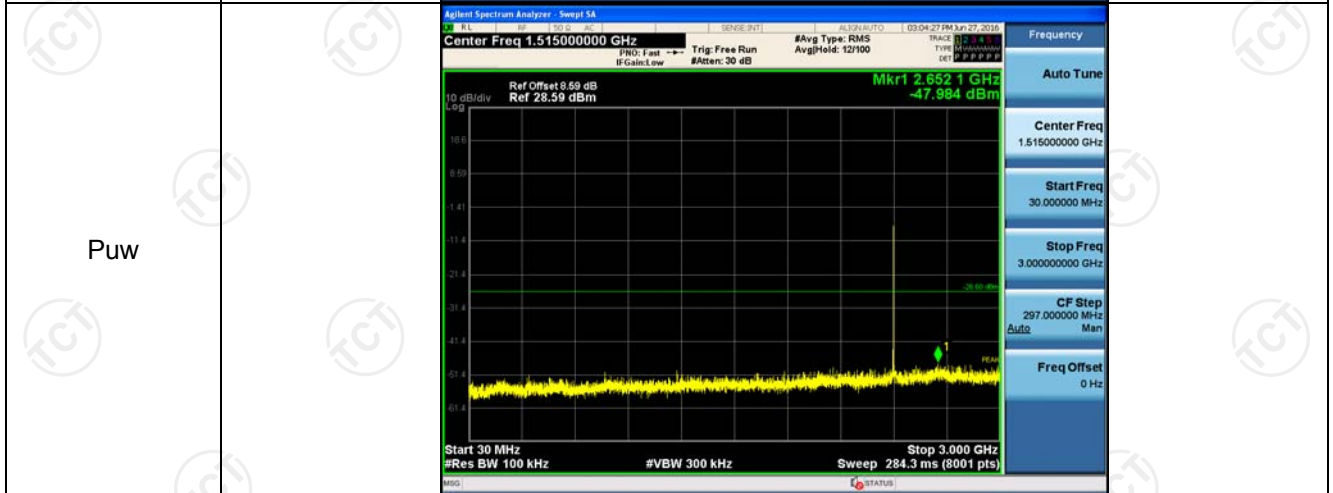
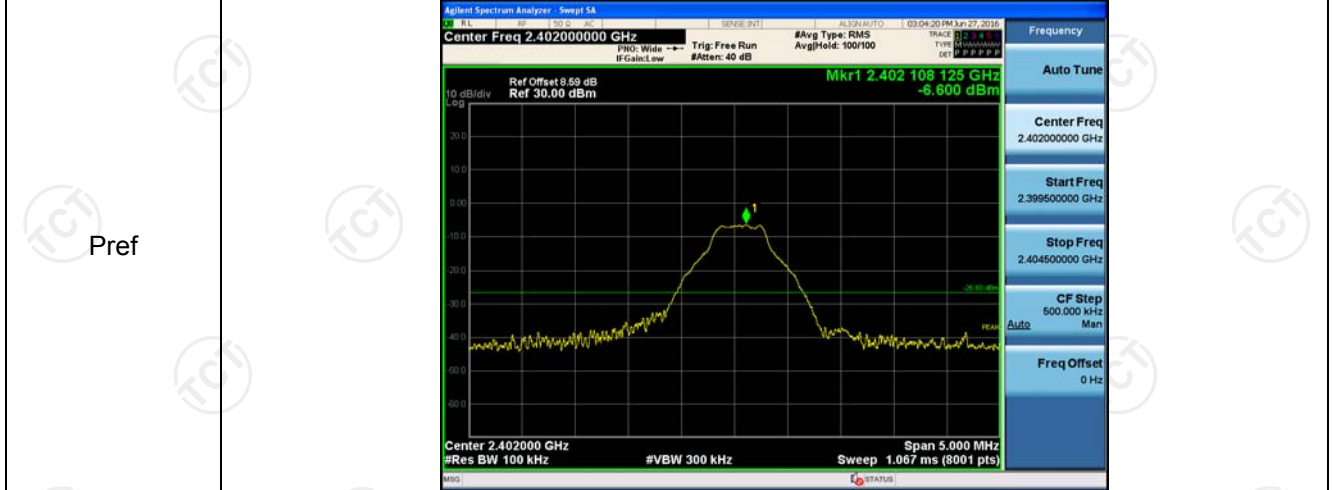
GFSK HCH_Graphs

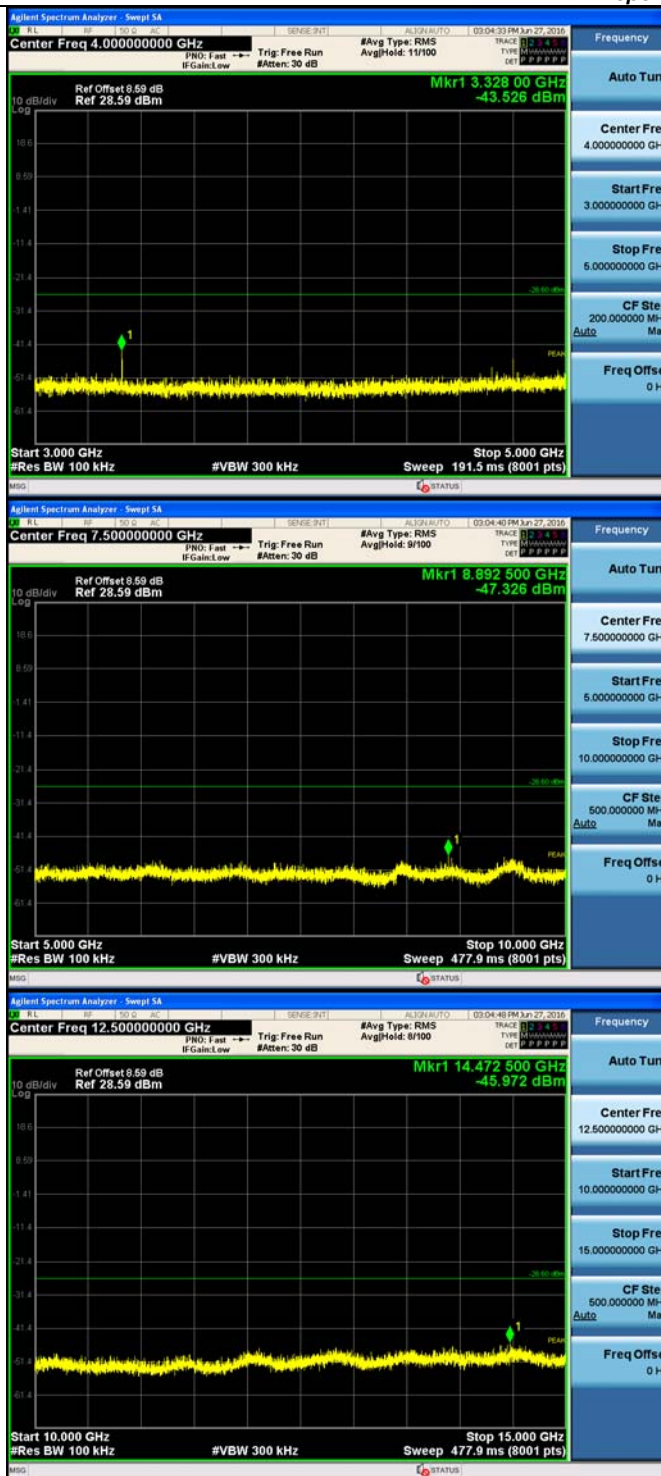


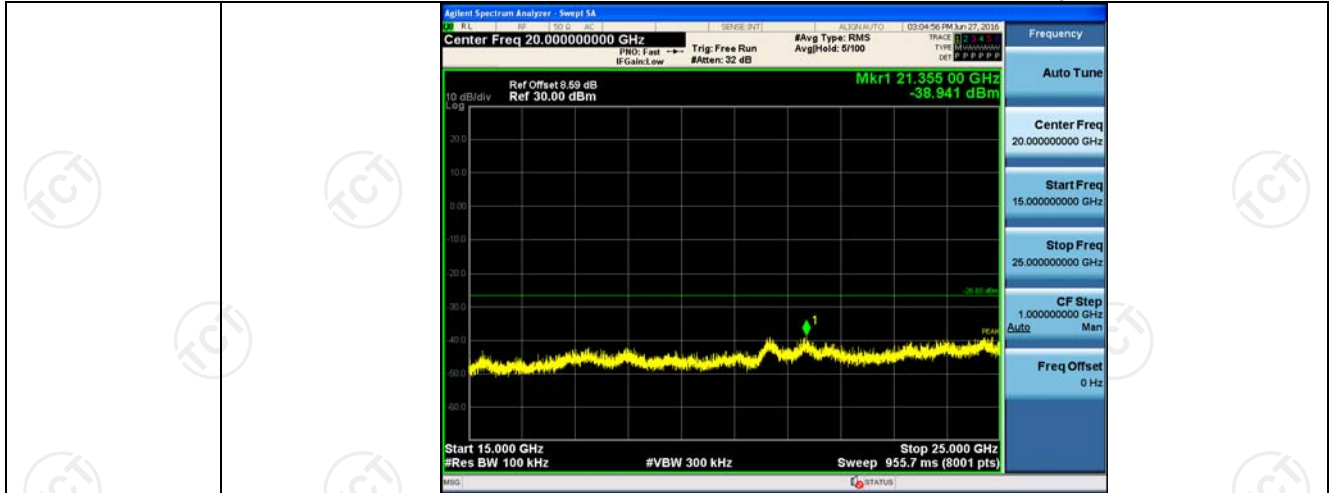




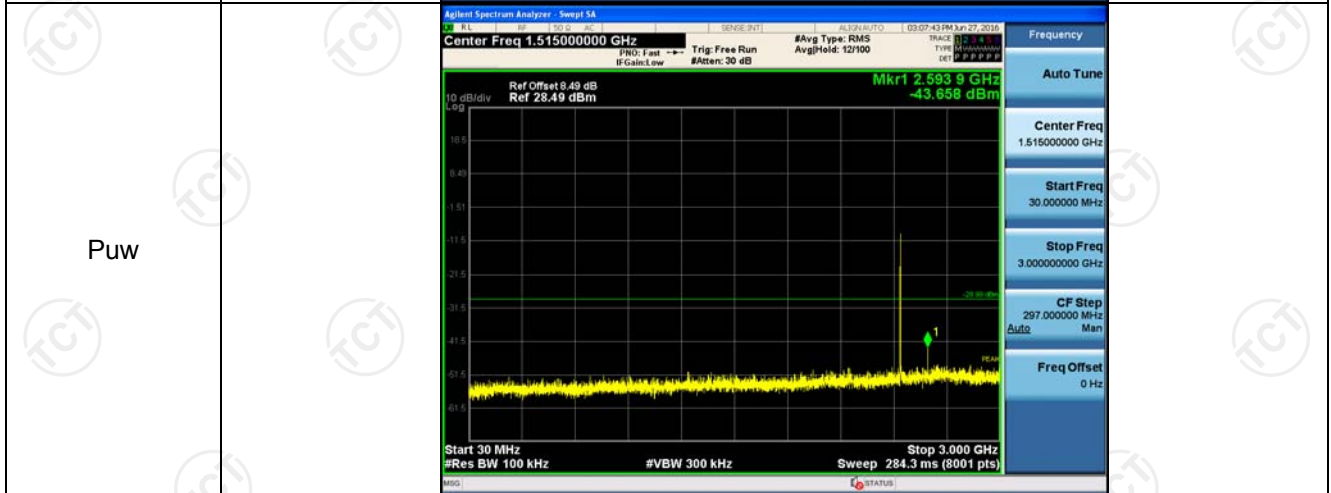
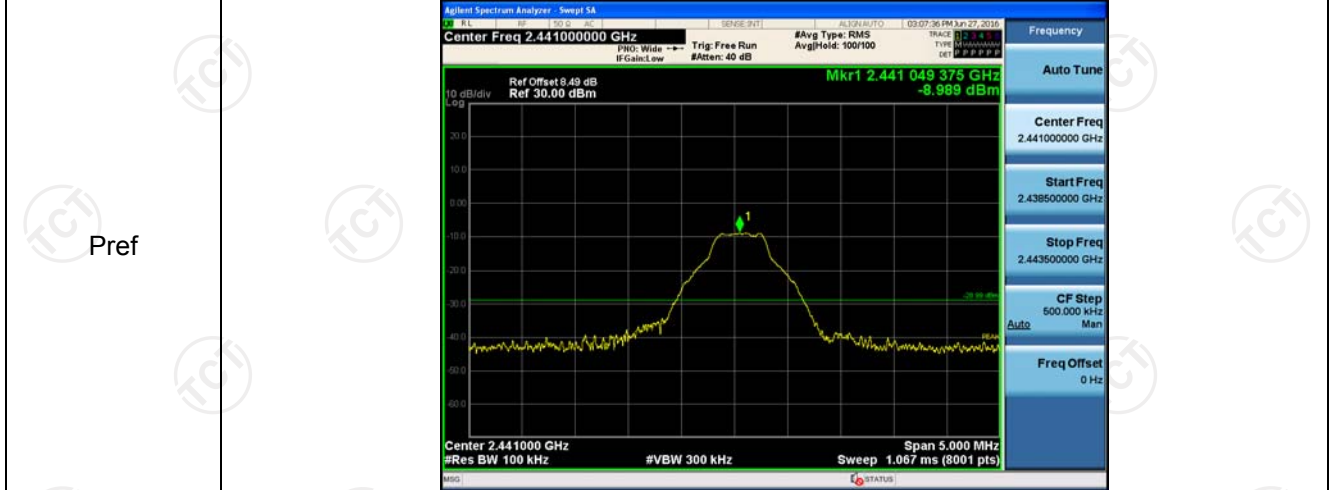
$\pi/4$ DQPSK LCH_Graphs

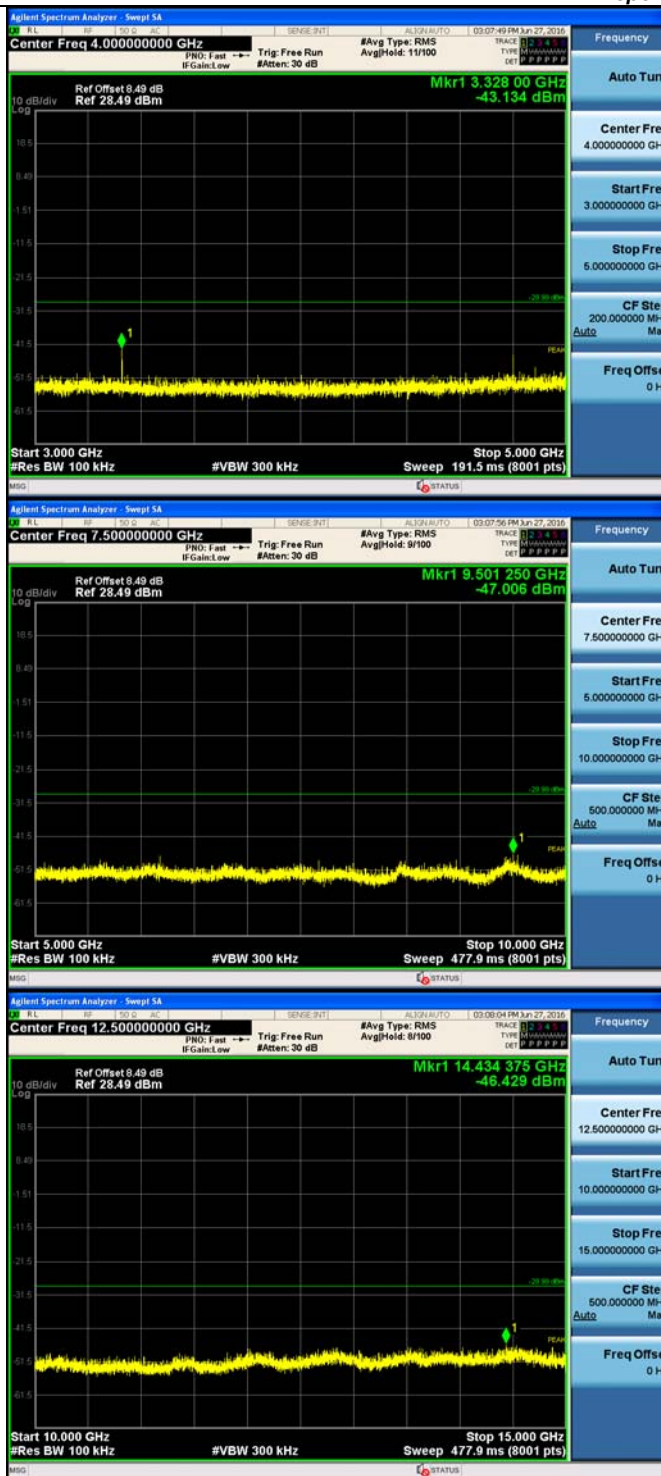


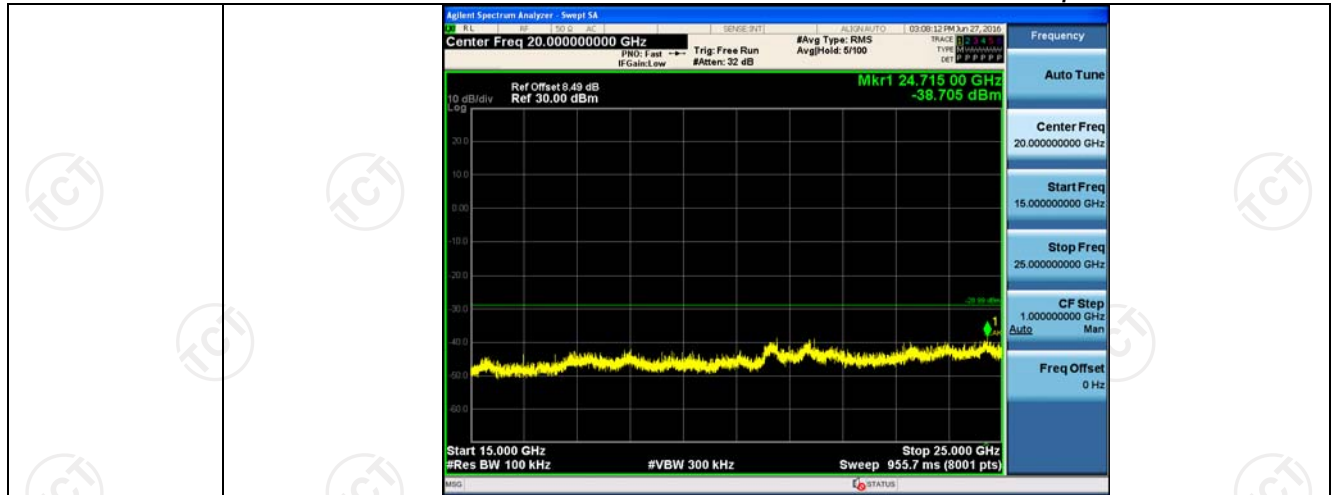




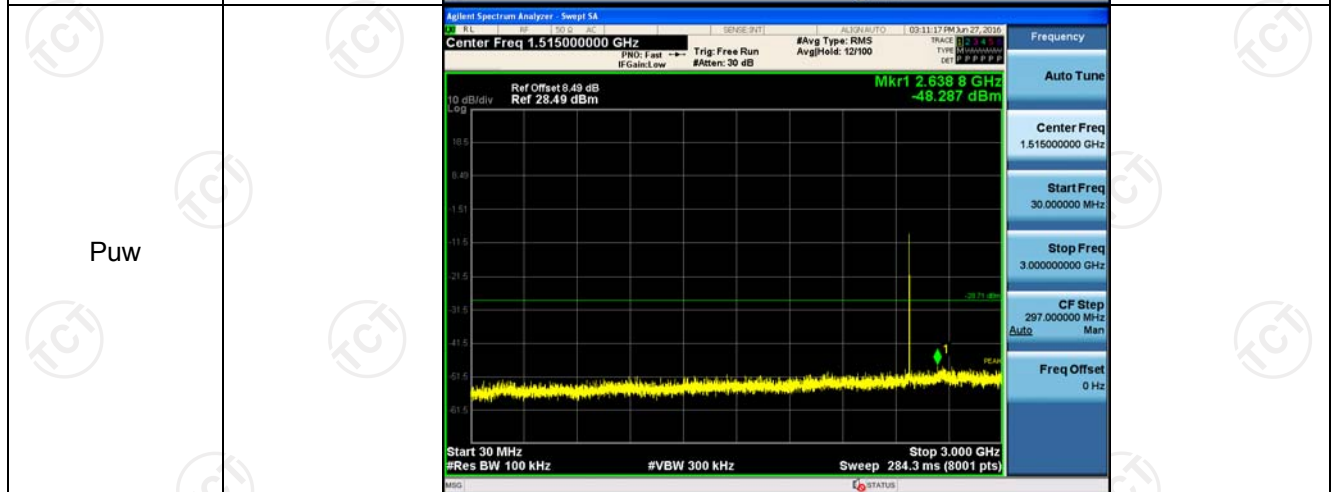
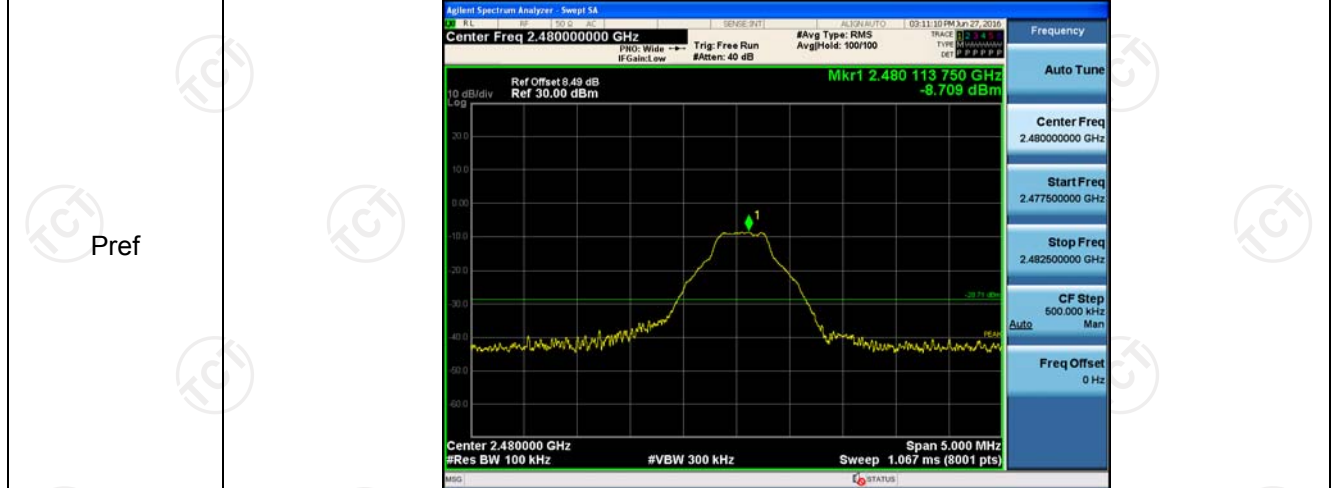
$\pi/4$ DQPSK_MCH_Graphs

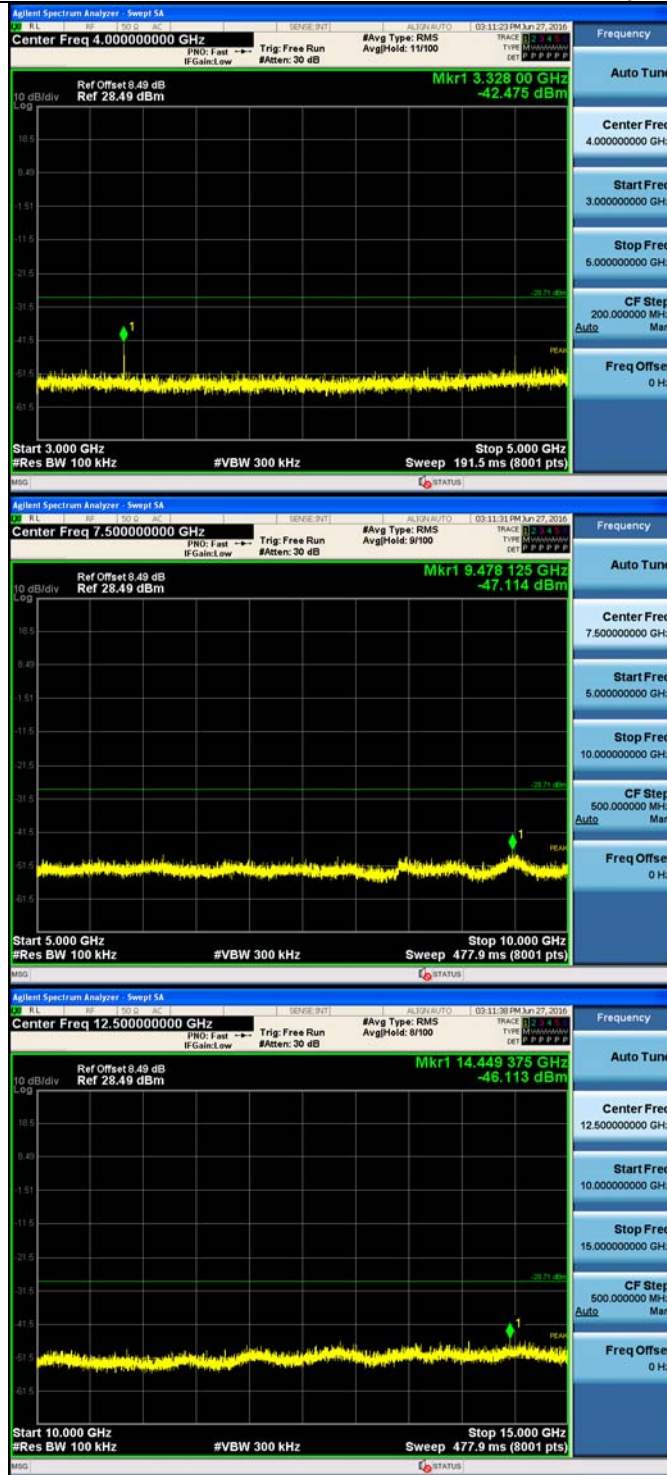


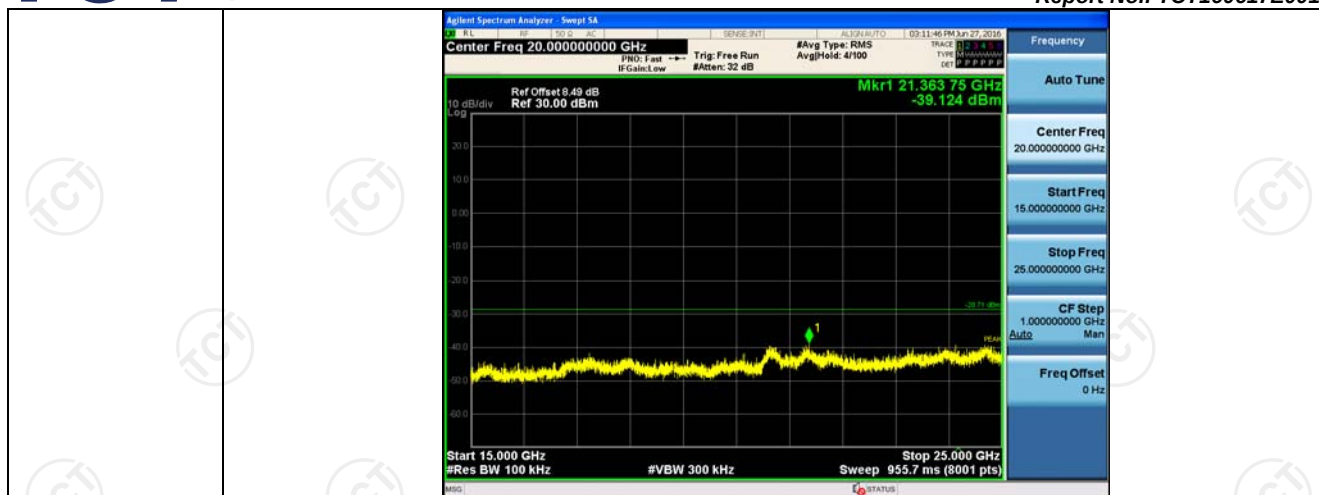




$\pi/4$ DQPSK_HCH_Graphs





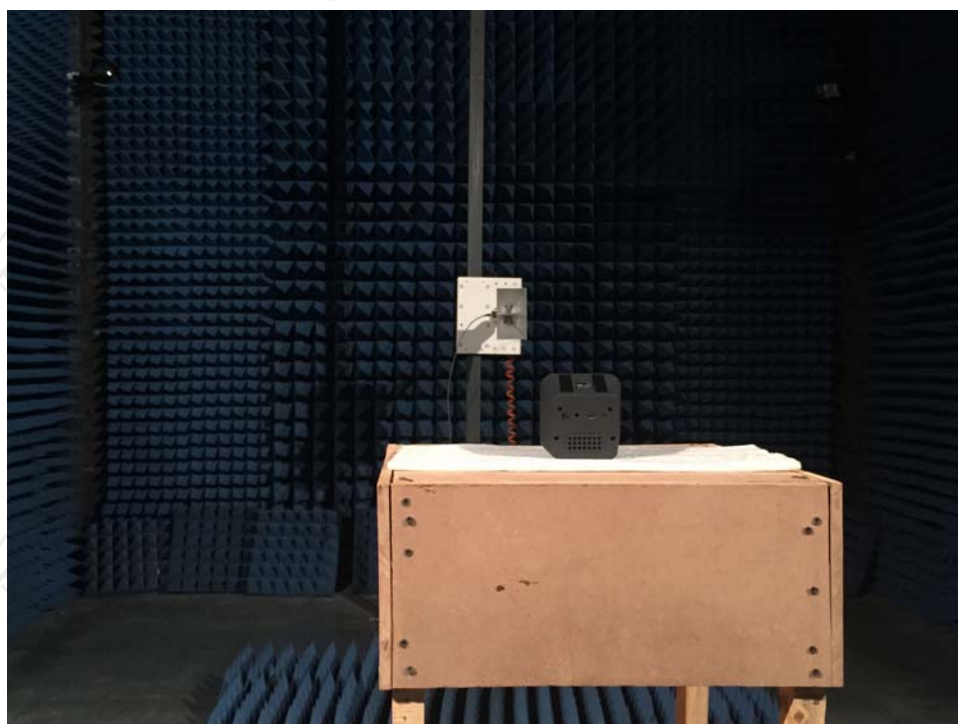
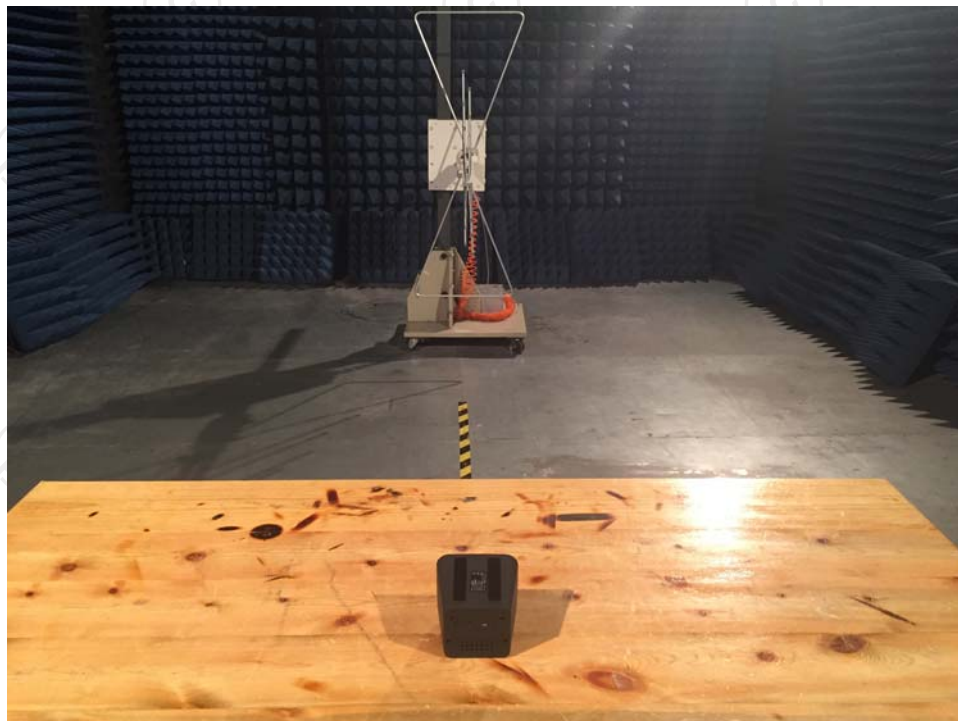


Appendix B: Photographs of Test Setup

Product: Bluetooth Speaker

Model: CQL1554-B

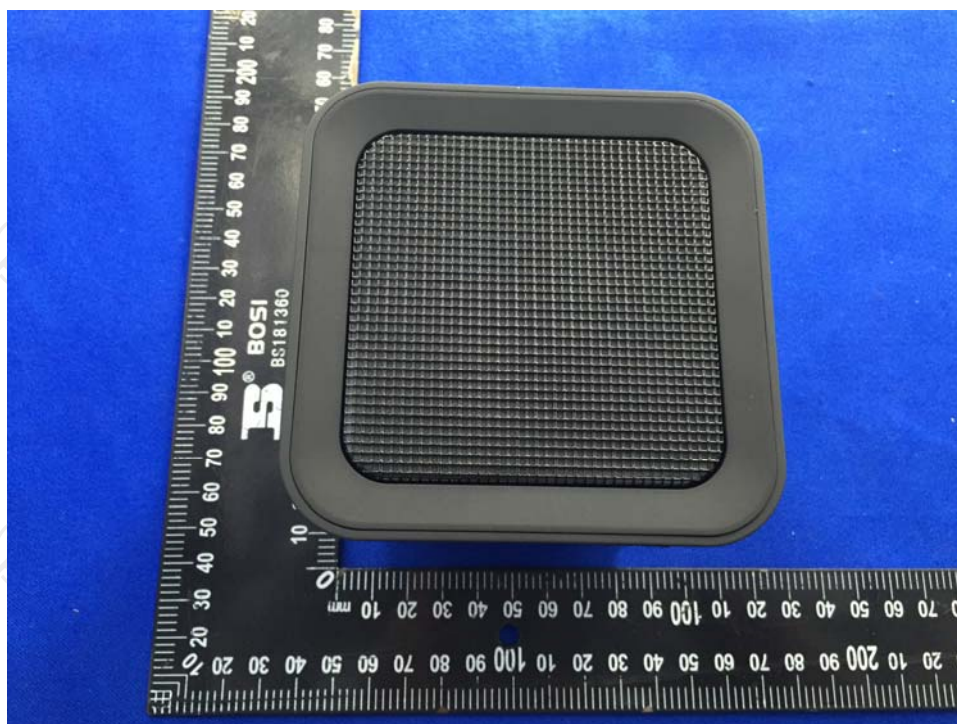
Radiated Emission

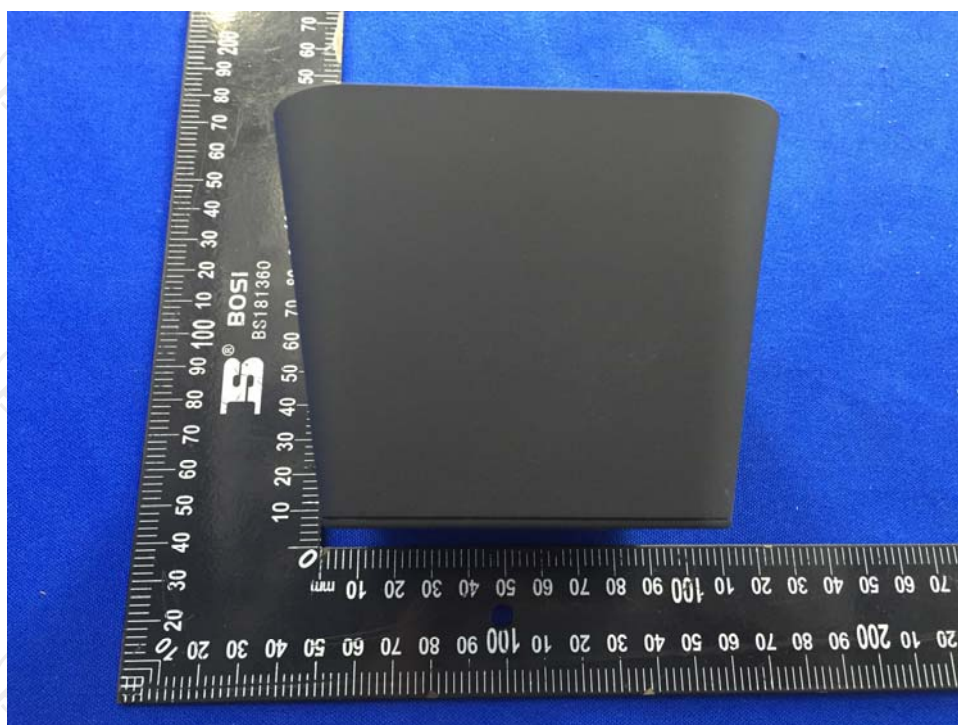
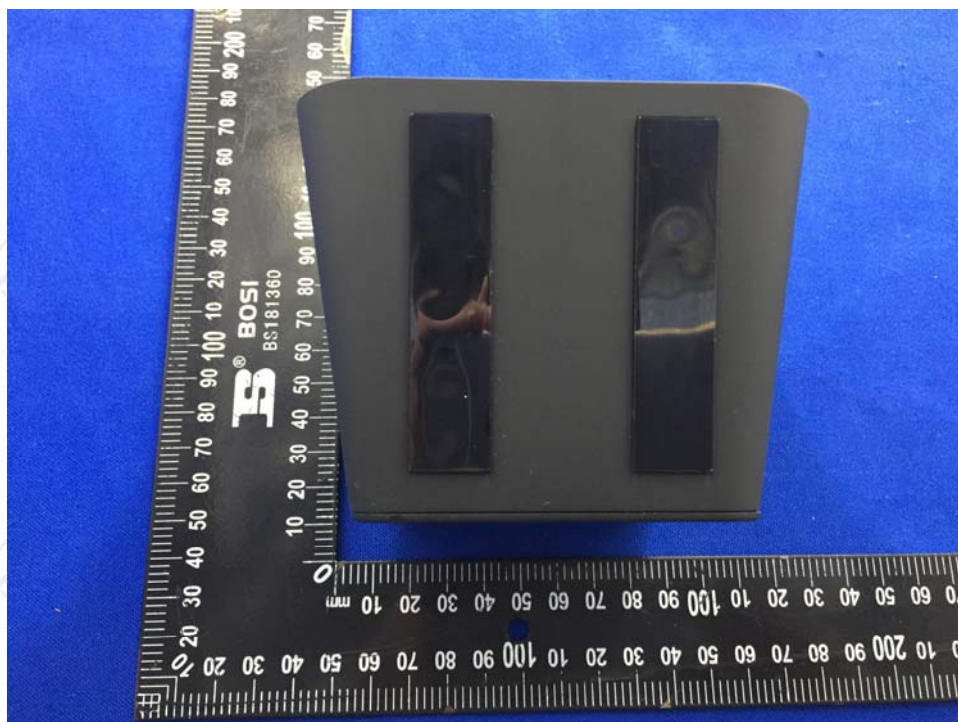


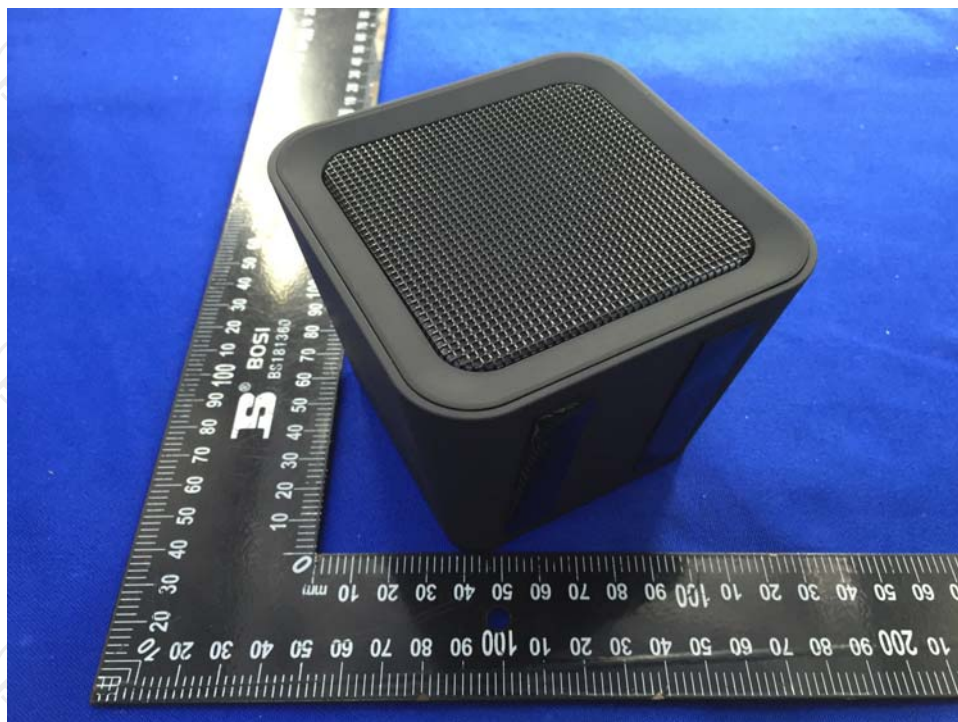
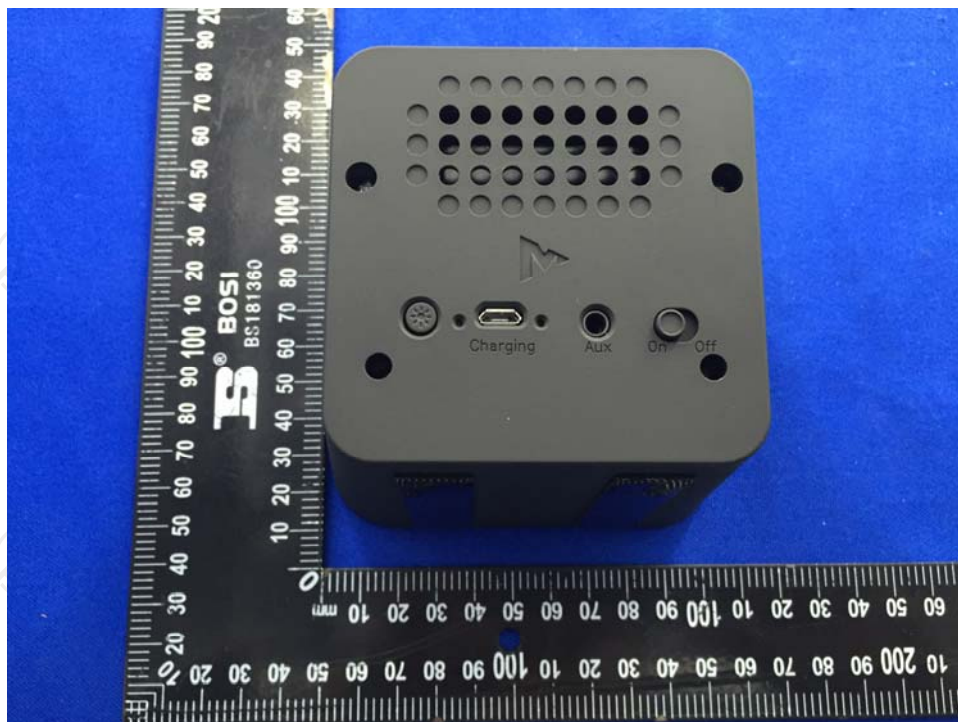
Conducted Emission

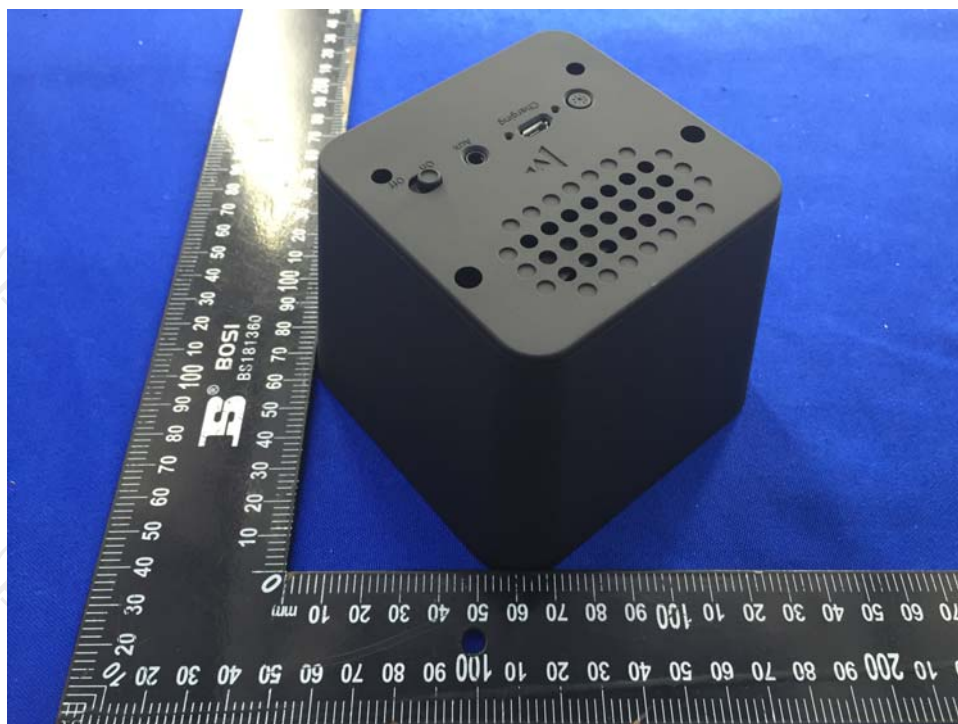


Appendix C: Photographs of EUT
Product: Bluetooth Speaker
Model: CQL1554-B
External Photos









Product: Bluetooth Speaker
Model: CQL1554-B
Internal Photos

