

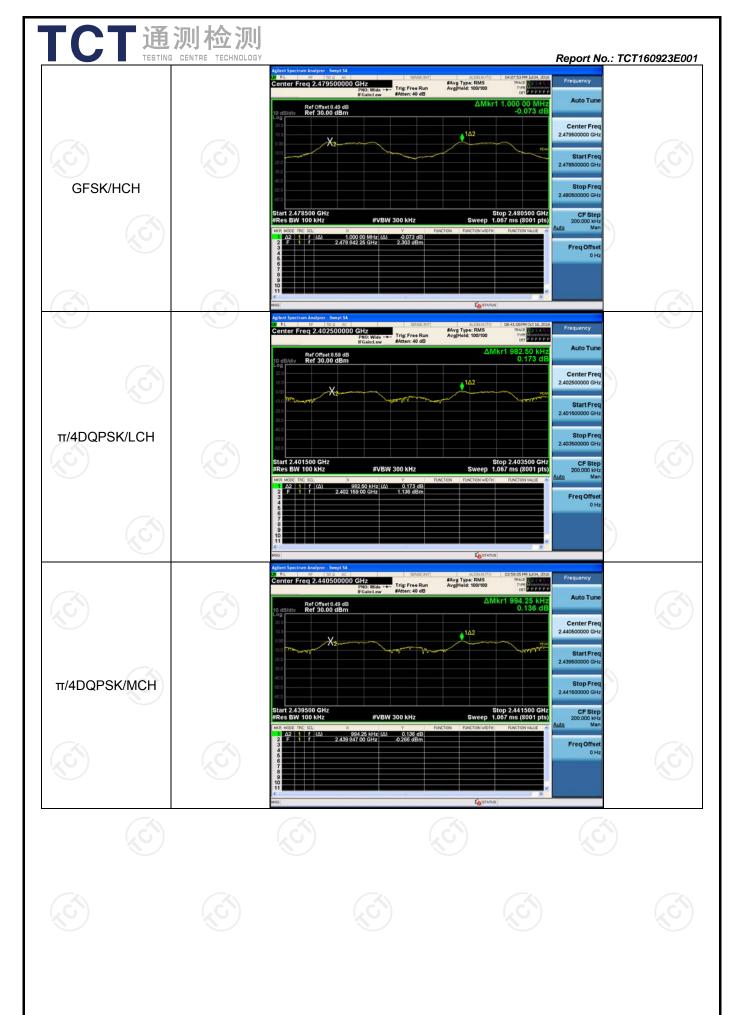


Carrier Frequency Separation

Result Table

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	0.998	PASS
GFSK	MCH	1.001	PASS
GFSK	HCH	1.000	PASS
π/4DQPSK	LCH	0.982	PASS
π/4DQPSK	MCH	0.994	PASS
π/4DQPSK	HCH	0.995	PASS









Report No.: TCT160923E001

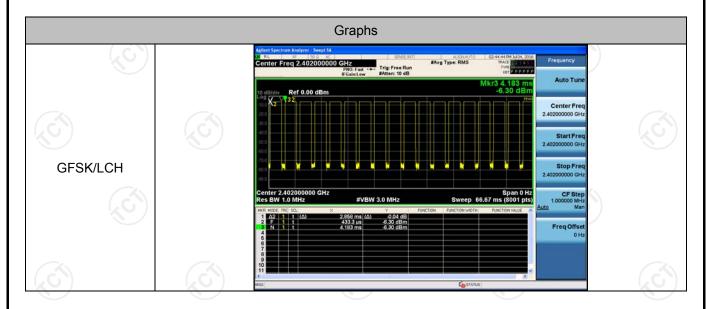
Dwell Time

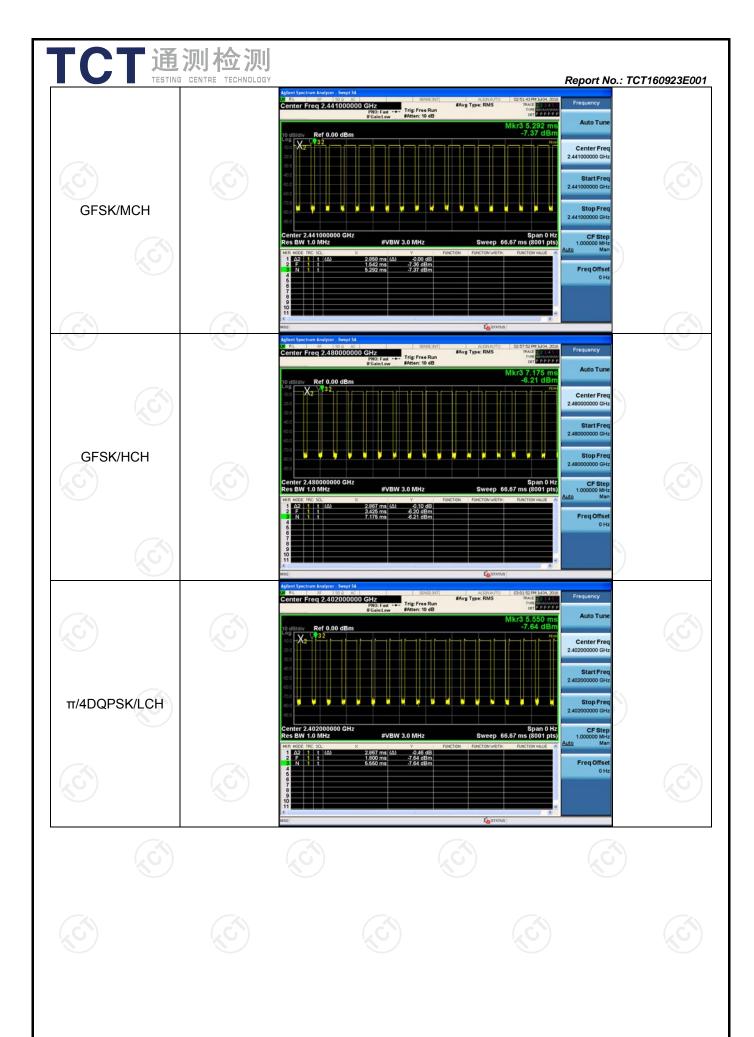
Result Table

The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows:

- The duration for dwell time calculation:0.4[s]*hopping number=0.4[s]*79[ch]=31.6[s*ch];
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is 1600/6=266.67 [ch*hop/s]
- The hops per second on one channel: 266.67 [ch*hops/s]/79 [ch]=3.38 [hop/s];
- The total hops for all channels within the dwell time calculation duration:3.38 [hop/s]*31.6[s*ch]=106.67 [hop*ch];
- The dwell time for all channels hopping: 106.67 [hop*ch]*Burst Width [ms/hop/ch].

Mode	Channel	Burst Width [ms/hop/ch]	Total Hops [hop*ch]	Dwell Time[s]	Duty Cycle [%]	Verdict
GFSK	LCH	2.858	106.7	0.305	76.22	PASS
GFSK	MCH	2.858	106.7	0.305	76.22	PASS
GFSK	HCH	2.867	106.7	0.306	76.44	PASS
π/4DQPSK	LCH	2.867	106.7	0.306	76.44	PASS
π/4DQPSK	MCH	2.858	106.7	0.305	76.22	PASS
π/4DQPSK	HCH	2.858	106.7	0.305	76.22	PASS







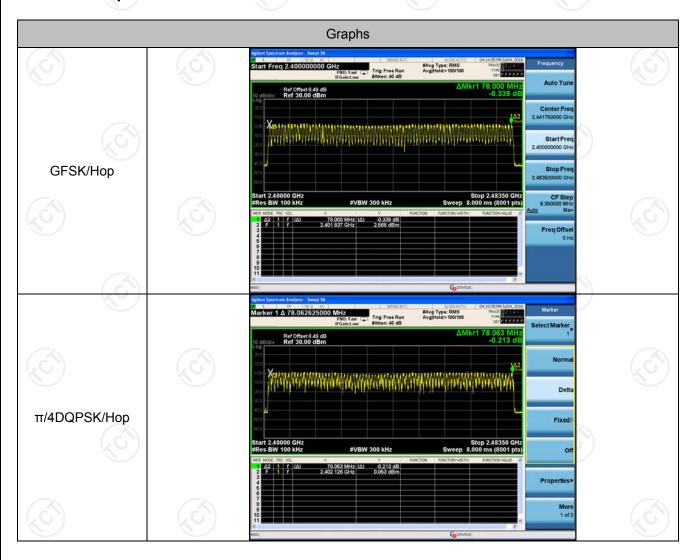




Hopping Channel Number

Result Table

Mode	Channel.	Number of Hopping Channel	Verdict
GFSK	Нор	79	PASS
π/4DQPSK	Нор	79	PASS





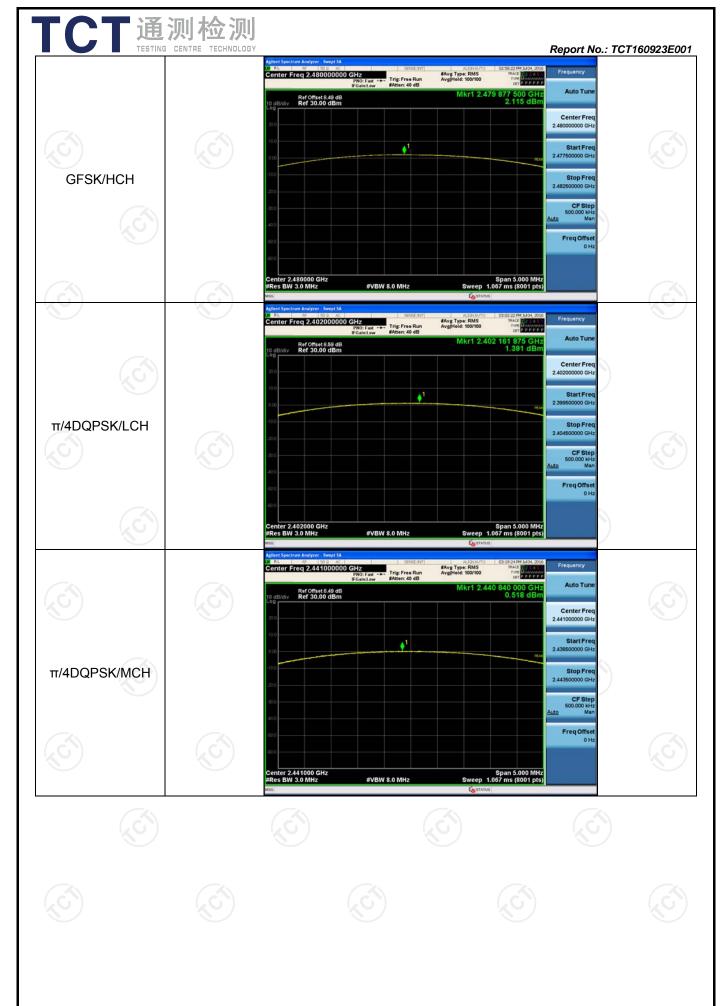
Report No.: TCT160923E001

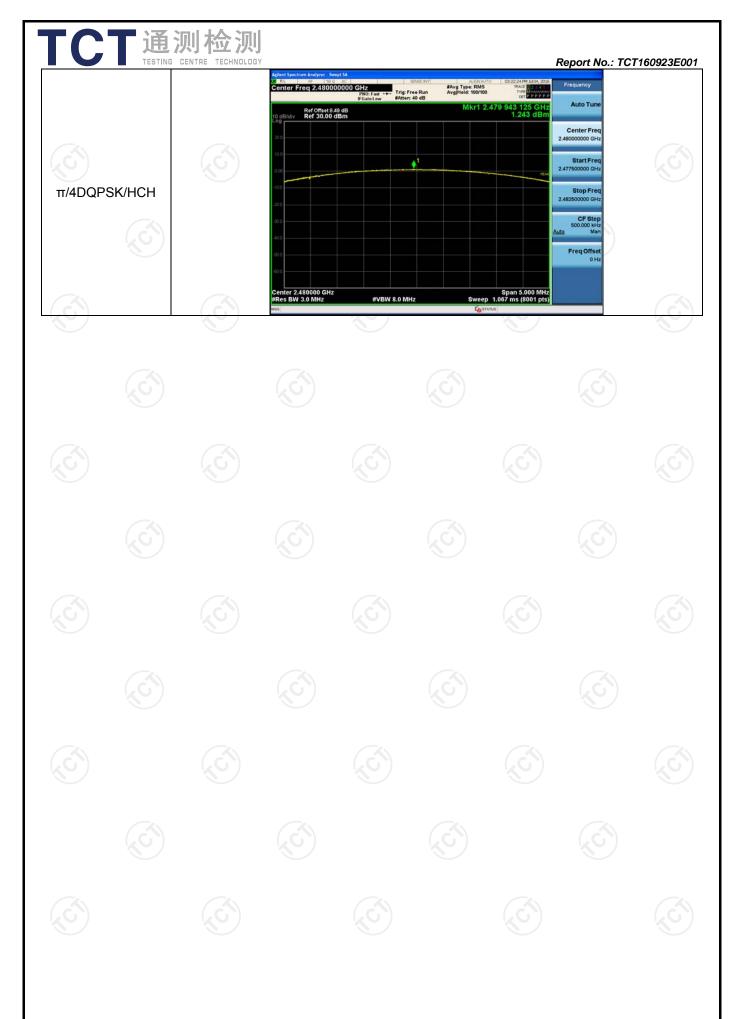
Conducted Peak Output Power

Result Table

Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	2.553	PASS
GFSK	MCH	1.366	PASS
GFSK	HCH	2.115	PASS
π/4DQPSK	LCH	1.391	PASS
π/4DQPSK	MCH	0.518	PASS
π/4DQPSK	HCH	1.243	PASS







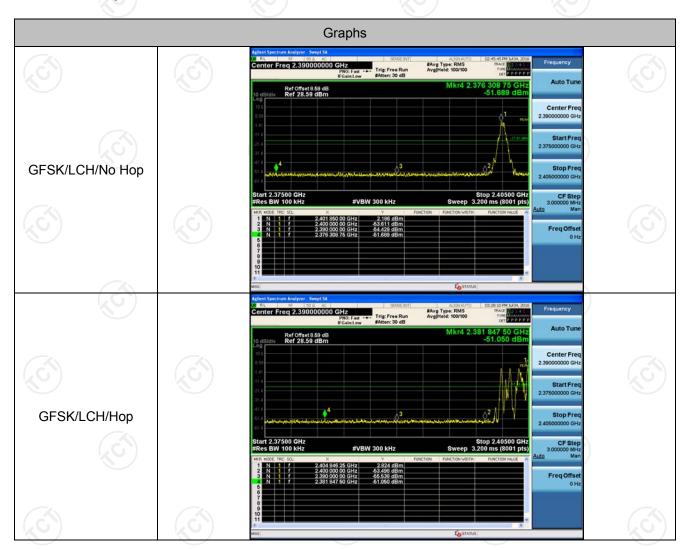


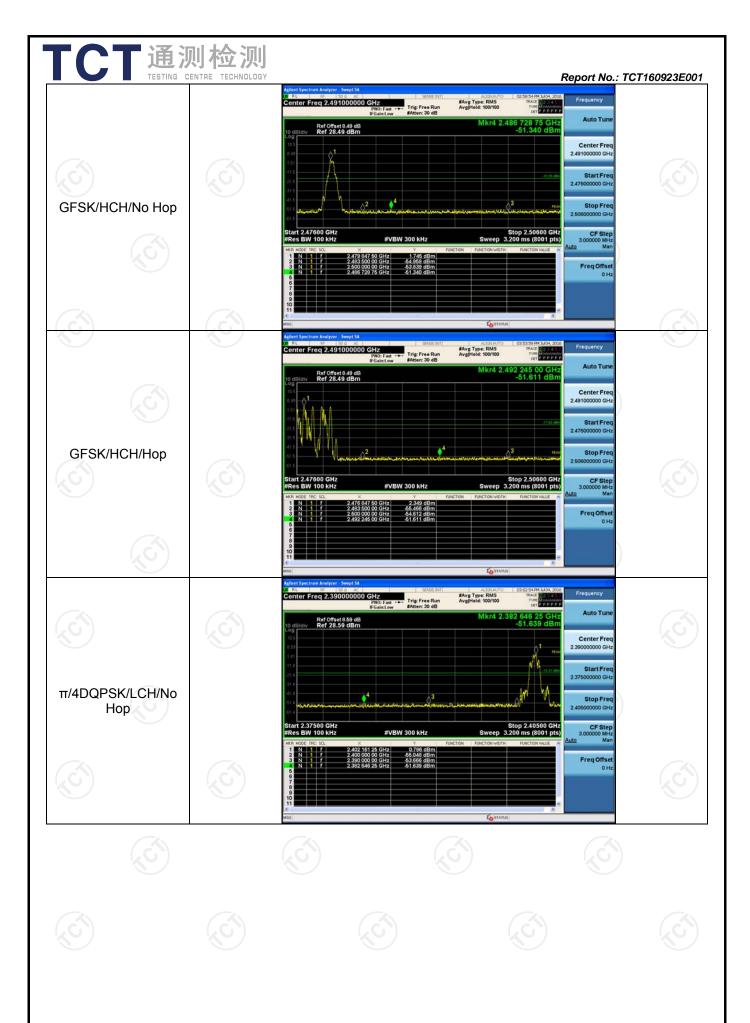


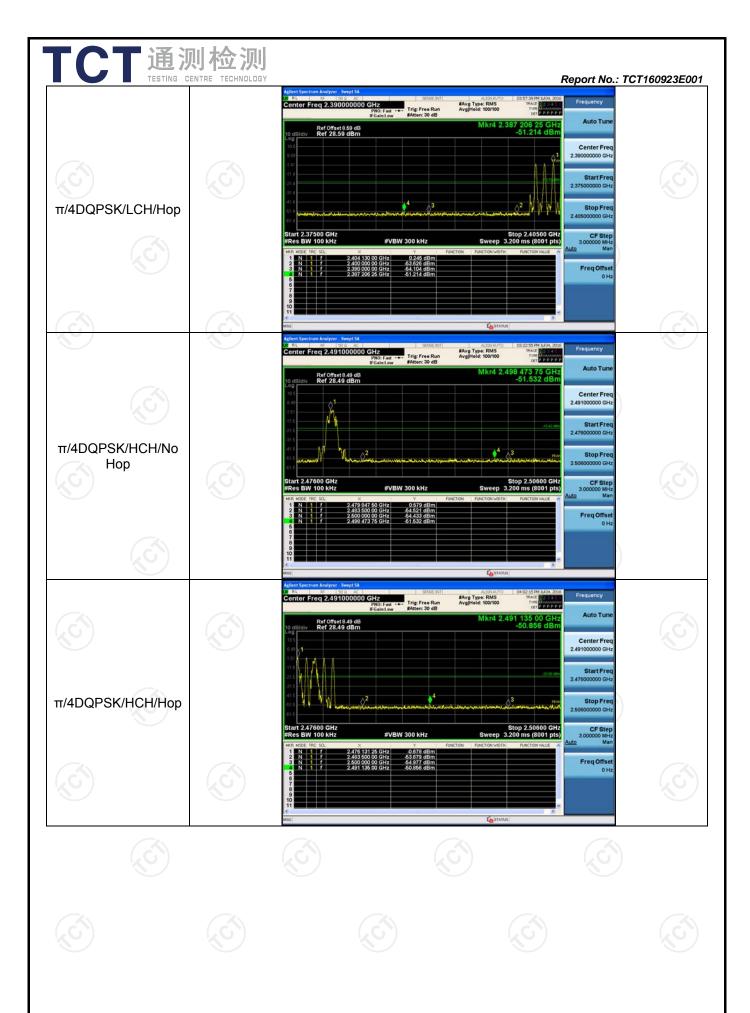
Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
CECK	LCH	2402	2.186	Off	-51.689	-17.81	PASS
Gran	GFSK LCH		2.824	On	-51.050	-17.18	PASS
CECK	ЦСЦ	2480	1.745	Off	-51.340	-18.26	PASS
Gran	GFSK HCH		2.349	On	-51.611	-17.65	PASS
-//DODCK	DODOK LOU	2402	0.786	Off	-51.639	-19.21	PASS
π/4DQPSK LCF	LCH	2402	0.245	On	-51.214	-19.76	PASS
-/4DODSK UG	HCH	2490	0.579	Off	-51.532	-19.42	PASS
π/4DQPSK	псп	2480	-0.678	On	-50.856	-20.68	PASS







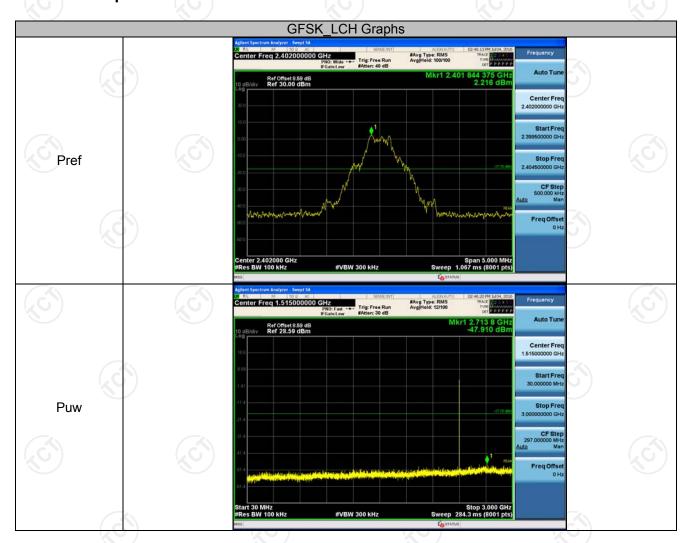




RF Conducted Spurious Emissions

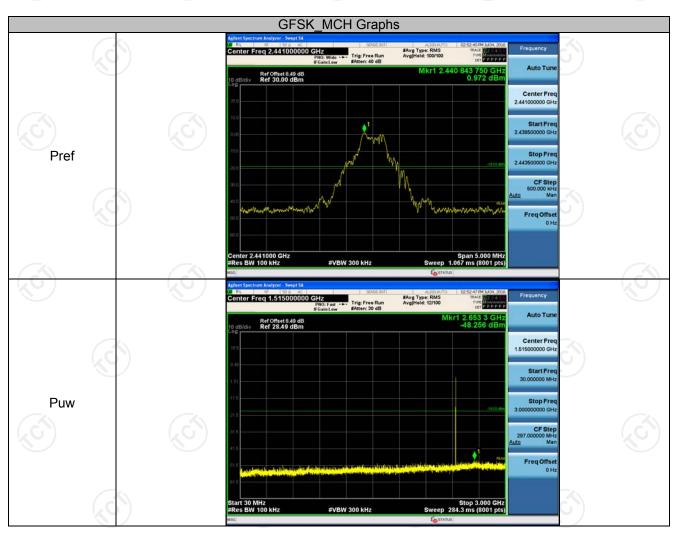
Result Table

Mode	Channel	Pref [dBm]	Puw [dBm]	Verdict
GFSK	LCH	2.216	<limit< td=""><td>PASS</td></limit<>	PASS
GFSK	MCH	0.972	<limit< td=""><td>PASS</td></limit<>	PASS
GFSK	HCH	1.76	<limit< td=""><td>PASS</td></limit<>	PASS
π/4DQPSK	LCH	-0.412	<limit< td=""><td>PASS</td></limit<>	PASS
π/4DQPSK	MCH	-0.732	<limit< td=""><td>PASS</td></limit<>	PASS
π/4DQPSK	HCH	0.207	<limit< td=""><td>PASS</td></limit<>	PASS



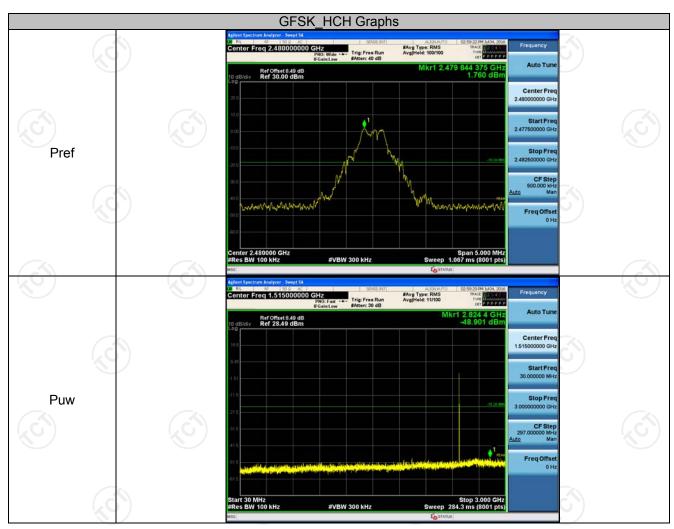
TCT通测检测
TESTING CENTRE TECHNOLOGY Report No.: TCT160923E001 Center Freq 4.000000 PNO: Fast -- Trig: Free Run #Avg Type: RMS Avg[Hold: 11/100 4.800 00 GH -48.321 dB Ref Offset 8.59 dB Ref 28.59 dBm Center Free enter Freq 7.500000000 GHz #Avg Type: RMS Avg[Hold: 9/100 6.086 875 GH -47.987 dBr Ref Offset 8.59 dB Ref 28.59 dBm Stop Fre Freq Offse #Avg Type: RMS Avg[Hold: 8/100 4.725 000 G -46.689 dE Ref Offset 8.59 dB Ref 28.59 dBm Center Fre Stop 15.000 GHz Sweep 477.9 ms (8001 pts **#VBW** 300 kHz Page 46 of 57





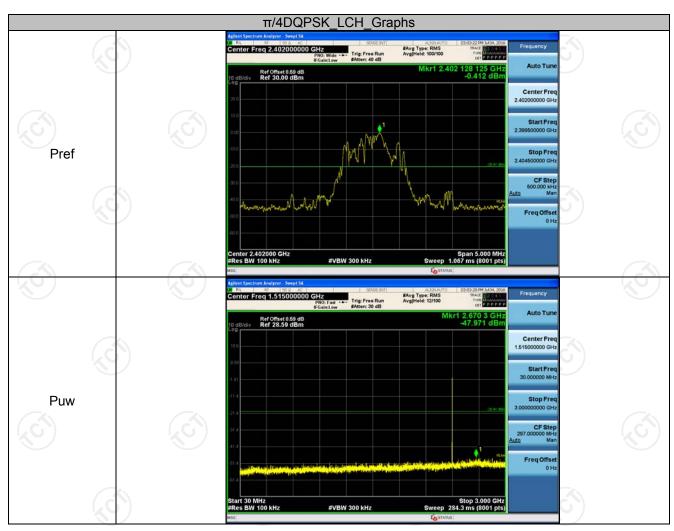
TCT通测检测
TESTING CENTRE TECHNOLOGY Report No.: TCT160923E001 #Avg Type: RMS Avg[Hold: 11/100 4,800 00 GH -45,456 dB Ref Offset 8.49 dB Ref 28.49 dBm Center Free enter Freq 7.500000000 GHz : Fast --- Trig: Free Run #Avg Type: RMS Avg[Hold: 9/100 9.439 375 GH -48.131 dBr Ref Offset 8.49 dB Ref 28.49 dBm Stop Fre nter Freq 12.500000000 GHz #Avg Type: RMS Avg[Hold: 8/100 4.498 125 G -45.448 dE Ref Offset 8,49 dB Ref 28,49 dBm Center Fre Stop 15.000 GHz Sweep 477.9 ms (8001 pts **#VBW** 300 kHz Page 48 of 57





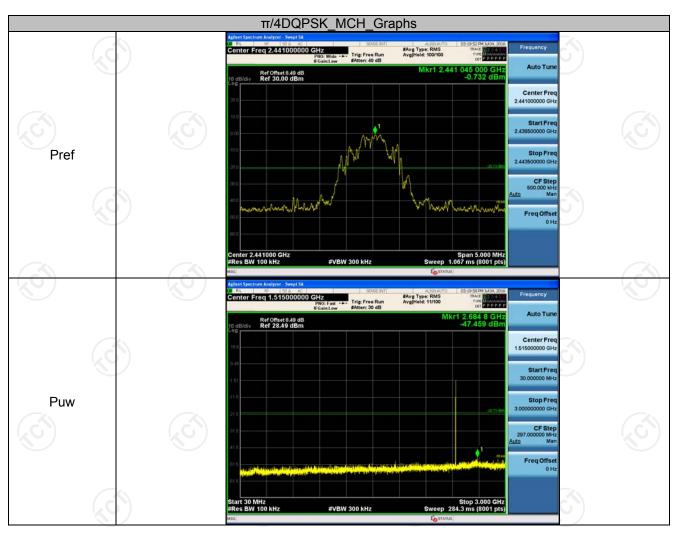
TCT通测检测
TESTING CENTRE TECHNOLOGY Report No.: TCT160923E001 #Avg Type: RMS Avg[Hold: 11/100 4.800 00 GH -47.198 dB Ref Offset 8.49 dB Ref 28.49 dBm Center Free #Avg Type: RMS Avg[Hold: 9/100 9.458 125 GH -47.418 dBr Ref Offset 8.49 dB Ref 28.49 dBm Stop Fre nter Freq 12.500000000 GHz #Avg Type: RMS Avg[Hold: 8/100 4.481 875 G -45.772 dE Ref Offset 8,49 dB Ref 28,49 dBm Center Fre Stop 15.000 GHz Sweep 477.9 ms (8001 pts **#VBW** 300 kHz Page 50 of 57





TCT通测检测
TESTING CENTRE TECHNOLOGY Report No.: TCT160923E001 #Avg Type: RMS Avg[Hold: 11/100 4.800 00 GH -46.211 dB Ref Offset 8.59 dB Ref 28.59 dBm Center Free enter Freq 7.500000000 GHz #Avg Type: RMS Avg[Hold: 9/100 9.453 750 GH -47.687 dBr Ref Offset 8.59 dB Ref 28.59 dBm Stop Fre nter Freq 12.500000000 GHz #Avg Type: RMS Avg[Hold: 8/100 4.580 000 G -46.419 dE Ref Offset 8.59 dB Ref 28.59 dBm Center Fre Stop 15.000 GHz Sweep 477.9 ms (8001 pts **#VBW** 300 kHz Page 52 of 57





TCT通测检测
TESTING CENTRE TECHNOLOGY Report No.: TCT160923E001 #Avg Type: RMS Avg[Hold: 11/100 4.800 00 GH -47.620 dB Ref Offset 8.49 dB Ref 28.49 dBm Center Free #Avg Type: RMS Avg[Hold: 9/100 9.461 250 GH -47.338 dBr Ref Offset 8.49 dB Ref 28.49 dBm Stop Free nter Freq 12.500000000 GHz #Avg Type: RMS Avg[Hold: 5/100 3.873 125 G -46.499 dl Ref Offset 8,49 dB Ref 28,49 dBm Center Fre CF Step 20000 MH Stop 15.000 GHz Sweep 477.9 ms (8001 pts **#VBW** 300 kHz Page 54 of 57

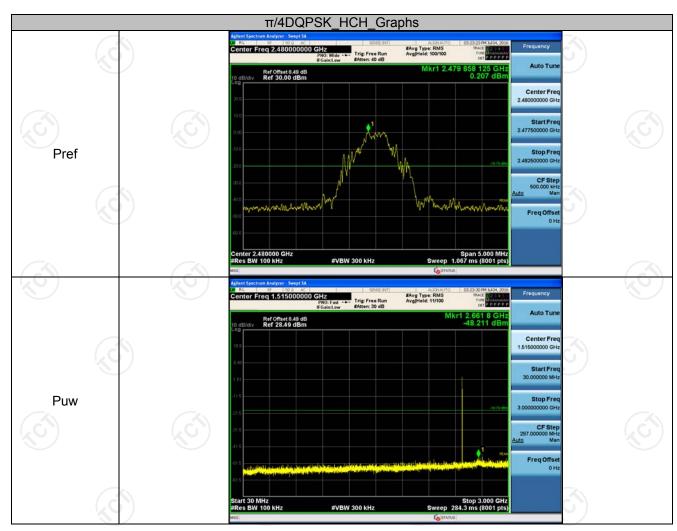
Hotline: 400-6611-140

Tel: 86-755-27673339

Fax: 86-755-27673332

http://www.tct-lab.com





TCT通测检测
TESTING CENTRE TECHNOLOGY Report No.: TCT160923E001 #Avg Type: RMS Avg[Hold: 11/100 4.800 00 GH -48.032 dB Ref Offset 8.49 dB Ref 28.49 dBm Center Free #Avg Type: RMS Avg[Hold: 9/100 9.504 375 GH -47.807 dBr Ref Offset 8.49 dB Ref 28.49 dBm Stop Fre nter Freq 12.500000000 GHz #Avg Type: RMS Avg[Hold: 8/100 4.435 625 G -45.484 dE Ref Offset 8,49 dB Ref 28,49 dBm Center Fre Stop 15.000 GHz Sweep 477.9 ms (8001 pts **#VBW** 300 kHz Page 56 of 57

Hotline: 400-6611-140

Tel: 86-755-27673339

Fax: 86-755-27673332

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