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1. Test Certification

Product:	Bluetooth Speaker						
Model No.:	CQL1641-B	Ś					
Additional Model:	SBT705						
Trade Mark:	Sharper Image, Polaroid, DARTA, Limitedtoo, ART+SOUND, SURE						
Applicant:	Conquer (China) Industry Co., Ltd						
Address:	A-703, Building 2, Tianan Cyber Park, HuangGe North Road, LongGang District, Shenzhen 518172, P.R. China.	C .					
Manufacturer:	Conquer (China) Industry Co., Ltd						
Address:	A-703, Building 2, Tianan Cyber Park, HuangGe North Road, LongGang District, Shenzhen 518172, P.R. China.						
Date of Test:	Mar. 20, 2018 - Mar. 23, 2018	2					
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247						

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

	Tested By:	Ples	Date:	Mar. 23, 2018	<u>S</u>
	Reviewed By:	Rieo Beny there	TONGCE POINT Date:	Mar. 26, 2018	_
	Approved By:	Beryl Zhao TomSin Tomsin	TCT Date:	Mar. 26, 2018	
<u>Hotlin</u>	e: 400-6611-140 Tel	: 86-755-27673339	Fax: 86-755-2767333	_	3 of 57 <u>b.com</u>



2. Test Result Summary

Requirement	CFR 47 Section		Result
Antenna Requirement	§15.203/§15.247 (c)	R.	PASS
AC Power Line Conducted Emission	§15.207		PASS
Conducted Peak Output Power	§15.247 (b)(1) §2.1046		PASS
20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049		PASS
Carrier Frequencies Separation	§15.247 (a)(1)		PASS
Hopping Channel Number	§15.247 (a)(1)		PASS
Dwell Time	§15.247 (a)(1)		PASS
Radiated Emission	§15.205/§15.209 §2.1053, §2.1057		PASS
Band Edge	§15.247(d) §2.1051, §2.1057		PASS
lote: 1. PASS: Test item meets the require	ement.		
2. Fail: Test item does not meet the	requirement.		
3. N/A: Test case does not apply to	the test object.		

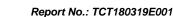


3. EUT Description

Product:	Bluetooth Speaker
Model No.:	CQL1641-B
Additional Model:	SBT705
Trade Mark:	Sharper Image, Polaroid, DARTA, Limitedtoo, ART+SOUND, SURE
Bluetooth Version:	V4.1
Operation Frequency:	2402MHz~2480MHz
Transfer Rate:	1/2 Mbits/s
Number of Channel:	79
Modulation Type:	GFSK, π/4-DQPSK
Modulation Technology:	FHSS
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	Rechargeable Li-ion Battery DC 3.7V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Operation Frequency each of channel for GFSK, $\pi/4$ -DQPSK

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		-
Remark:	Channel 0, 3	9 &78 ha	ve been tes	ted for GI	-SK, π/4-DC	QPSK mo	dulation mode.



4. Genera Information

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4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
	1			

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

「CT通测检测 TESTINg CENTRE TECHNOLOGY 5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC Registration No.: 645098
 - Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

Tel: 86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



6. Test Results and Measurement Data

6.1. Antenna requirement

FCC Part15 C Section 15.203 /247(c) **Standard requirement:** 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. **E.U.T** Antenna: The Bluetooth antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 0dBi. **BT** Anten 20 00 20 40 30 2



6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Frequency Range:	150 kHz to 30 MHz	(C)					
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto				
	Frequency range	Limit (dBuV)				
	(MHz)	Quasi-peak	Average				
Limits:	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	Referenc	e Plane					
Test Setup:	40cm 80cm Filter AC power Filter AC power E.U.T AC power Test table/Insulation plane EMI Receiver Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
Test Mode:	LISN: Line Impedence Stabilization Ne	etwork					
Test Mode: Test Procedure:	LISN: Line İmpedence Stabilization N Test table height=0.8m	cted to an adapte ation network 50uH coupling im nt. ces are also conne SN that provides with 50ohm tern diagram of the line are checken nce. In order to fin e positions of equi must be changed	(L.I.S.N.). This pedance for the ected to the main a 50ohm/50uh nination. (Please test setup and ed for maximum nd the maximum ipment and all co l according to				

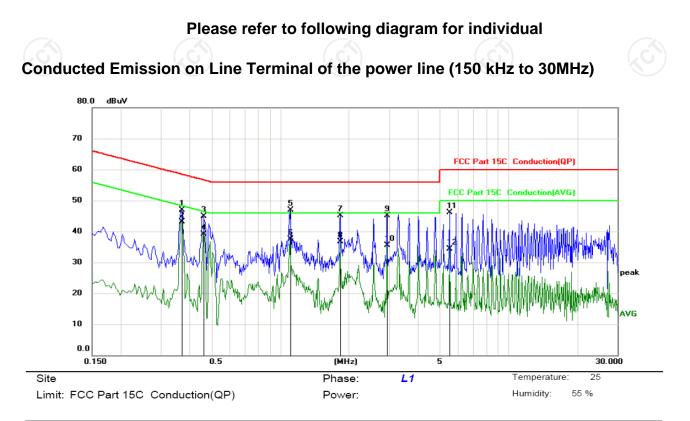
6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)											
Equipment	Equipment Manufacturer Model Serial Numl		Equipment Manufacturer Model Serial Numb		er Model Serial Number Calibration						
Test Receiver	Test Receiver R&S ESPI		101401	Jun. 12, 2018							
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018							
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 27, 2018							
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A							

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.2.3. Test data

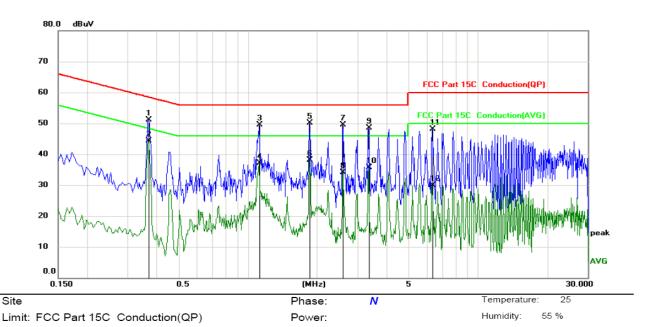


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3704	35.63	11.36	46.99	58.49	-11.50	QP	
2	*	0.3704	31.73	11.36	43.09	48.49	-5.40	AVG	
3		0.4605	33.52	11.32	44.84	56.68	-11.84	QP	
4		0.4605	27.84	11.32	39.16	46.68	-7.52	AVG	
5		1.1085	35.62	11.25	46.87	56.00	-9.13	QP	
6		1.1085	26.27	11.25	37.52	46.00	-8.48	AVG	
7		1.8375	33.42	11.61	45.03	56.00	-10.97	QP	
8		1.8375	25.15	11.61	36.76	46.00	-9.24	AVG	
9		2.9400	33.70	11.36	45.06	56.00	-10.94	QP	
10		2.9400	24.21	11.36	35.57	46.00	-10.43	AVG	
11		5.5319	35.32	10.69	46.01	60.00	-13.99	QP	
12		5.5319	23.60	10.69	34.29	50.00	-15.71	AVG	

Note:

Freq. = Emission frequency in MHz Reading level ($dB\mu V$) = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss Measurement $(dB\mu V) = Reading \, level \, (dB\mu V) + Corr. Factor (dB)$ Limit $(dB\mu V) = Limit$ stated in standard Margin (dB) = Measurement (dB μ V) – Limits (dB μ V) Q.P. =Quasi-Peak AVG =average * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz Page 11 of 57

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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1		0.3704	39.75	11.36	51.11	58.49	-7.38	QP	
2	*	0.3704	32.95	11.36	44.31	48.49	-4.18	AVG	
3		1.1174	38.23	11.26	49.49	56.00	-6.51	QP	
4		1.1174	25.94	11.26	37.20	46.00	-8.80	AVG	
5		1.8555	38.42	11.62	50.04	56.00	-5.96	QP	
6		1.8555	26.58	11.62	38.20	46.00	-7.80	AVG	
7		2.5935	38.13	11.47	49.60	56.00	-6.40	QP	
8		2.5935	22.63	11.47	34.10	46.00	-11.90	AVG	
9		3.3495	37.28	11.21	48.49	56.00	-7.51	QP	
10		3.3495	24.50	11.21	35.71	46.00	-10.29	AVG	
11		6.3239	37.24	10.82	48.06	60.00	-11.94	QP	
12		6.3239	19.17	10.82	29.99	50.00	-20.01	AVG	

Note1:

Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ - Limits $(dB\mu V)$ Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Note2:

Measurements were conducted in all three channels (high, middle, low) and two modulation (GFSK, Pi/4 DQPSK), and the worst case Mode (Low channel and GFSK) was submitted only.

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6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)					
Test Method:	ANSI C63.10:2013					
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.					
Test Setup:						
Test Mode:	Spectrum Analyzer EUT Transmitting mode with modulation C					
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.					
Test Result:	PASS					

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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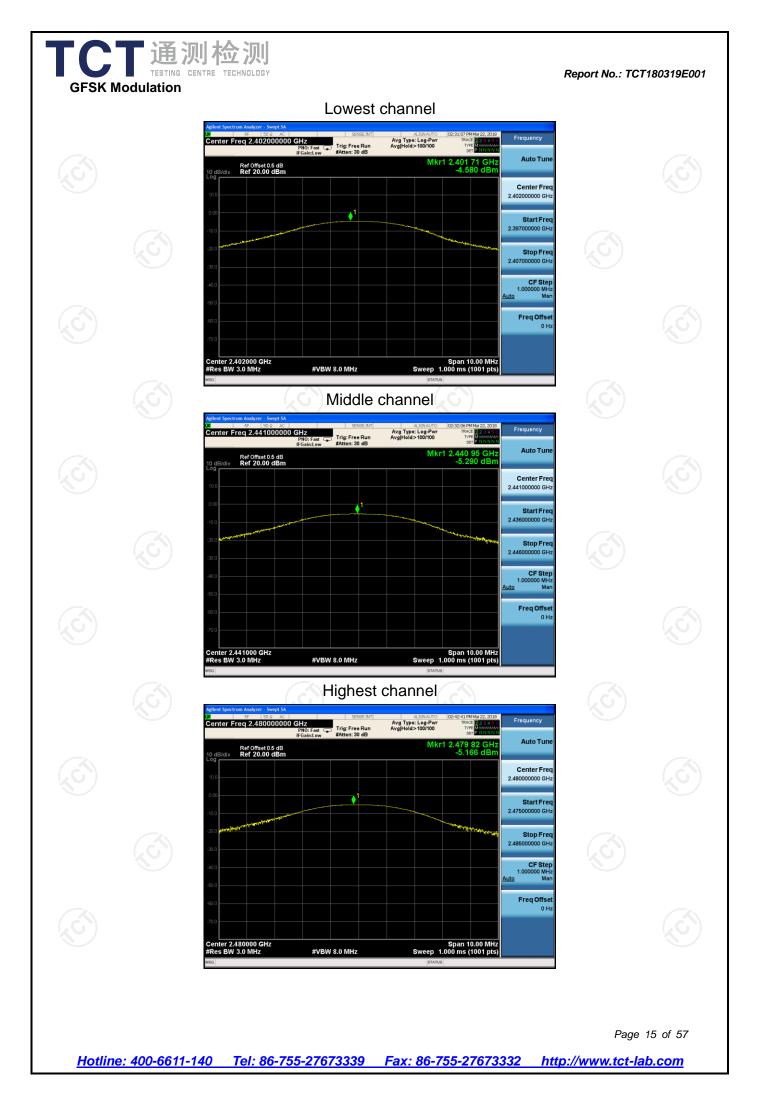
6.3.3. Test Data

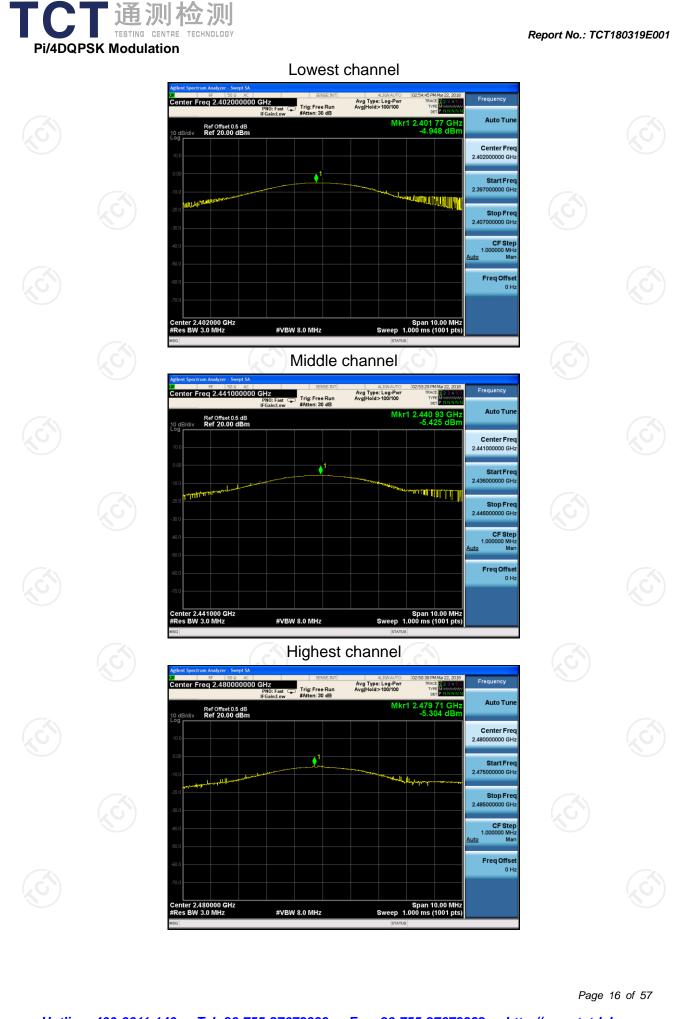
Report No.: TCT180319E001

GFSK mode								
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	-4.58	21.00	PASS					
Middle	-5.29	21.00	PASS					
Highest	-5.17	21.00	PASS					

Pi/4DQPSK mode							
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	-4.95	21.00	PASS				
Middle	-5.43	21.00	PASS				
Highest	-5.30	21.00	PASS				

Test plots as follows:						
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6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013					
Limit:	N/A		X)			
Test Setup:	Spectrum Analyzer					
Test Mode:	Transmitting mode with	h modulation				
Test Procedure:	 Guidelines. 2. The RF output of EU analyzer by RF cat was compensated measurement. 3. Set to the maximum EUT transmit contin 4. Use the following sp Bandwidth measure Span = approximat bandwidth, centere ≤5% of the 20 dB Sweep = auto; Dete hold. 	ectrum analyzer setting	able the gs for 20dB dB el; 1%			
Test Result:	PASS					

6.4.2. Test Instruments

	C			
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	ТСТ	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4.3. Test data

TCT通测检测 TCT通测检测

	Test channel	20dB Occupy Bandwidth (kHz)					
	Test channel	GFSK	π/4-DQPSK	Conclusion			
9	Lowest	1105	1329	PASS			
	Middle	1122	1303	PASS			
	Highest	1122	1319	PASS			
I							

Test plots as follows:









6.5. Carrier Frequencies Separation

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	 The testing follows ANSI C63.10:2013 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
Test Result:	PASS (C)

6.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to

international system unit (SI).

6.5.3. Test data

GFSK mode						
Test channel	Result					
Lowest	1000	748	PASS			
Middle	1020	748	PASS			
Highest	1018	748	PASS			

Pi/4 DQPSK mode						
Test channelCarrier Frequencies Separation (kHz)Limit (kHz)Result						
Lowest	998	886	PASS			
Middle	988	886	PASS			
Highest	998	886	PASS			

Note: According to section 6.4Limit (kHz)Mode20dB bandwidth (kHz)
(worse case)Limit (kHz)
(Carrier Frequencies
Separation)GFSK1122748π/4-DQPSK1329886

Test plots as follows:

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6.6. Hopping Channel Number

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)			
Test Method:	ANSI C63.10:2013			
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.			
Test Setup:	Spectrum Analyzer EUT			
Test Mode:	Hopping mode			
Test Procedure:	 The testing follows ANSI C63.10:2013 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report. 			
Test Result:	PASS			

6.6.2. Test Instruments

Equipment	Manufacturer	turer Model Serial Number		Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	ТСТ	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.6.3. Test data

	Mode		opping channe numbers	el	Limit		Result	
,c	GFSK, P/4-DQ	PSK	79		15	PAS	S	
Test	plots as follows:							
<u>Hot</u> li	ne: 400-6611-140	Tel: 86-755-270	673339 Fax: 8	36-755-27673	3 <u>332http</u> ://	Page 2 / <mark>/www.tct-lal</mark>	26 of 57 5.com	



Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

6.7.1. Test Specification

6.7. Dwell Time

FCC Part15 C Section 15.247 (a)(1)
ANSI C63.10:2013
The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Spectrum Analyzer EUT
Hopping mode
 The testing follows ANSI C63.10:2013 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
PASS

6.7.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.7.3. Test Data

Mode	Packet	Hops Over Occupancy Time (hops)	Package Transfer Time (ms)	Dwell time (second)	Limit (second)	Result
GFSK	DH1	320	0.412	0.132	0.4	PASS
GFSK	DH3	160	1.629	0.261	0.4	PASS
GFSK	DH5	106.67	2.920	0.311	0.4	PASS
Pi/4 DQPSK	2-DH1	320	0.401	0.128	0.4	PASS
Pi/4 DQPSK	2-DH3	160	1.686	0.270	0.4	PASS
Pi/4 DQPSK	2-DH5	106.67	2.924	0.312	0.4	PASS

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate (1600 / 2 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 2 / 79) \times (0.4 \times 79) = 320$ hops

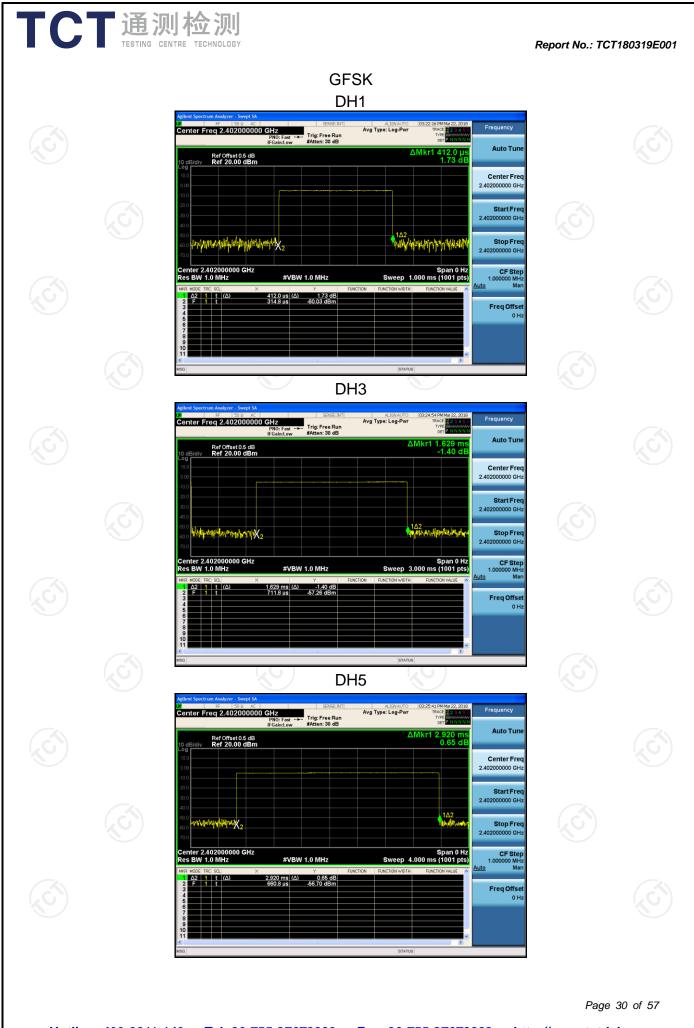
For DH3, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 4 / 79) x (0.4 x 79) = 160 hops

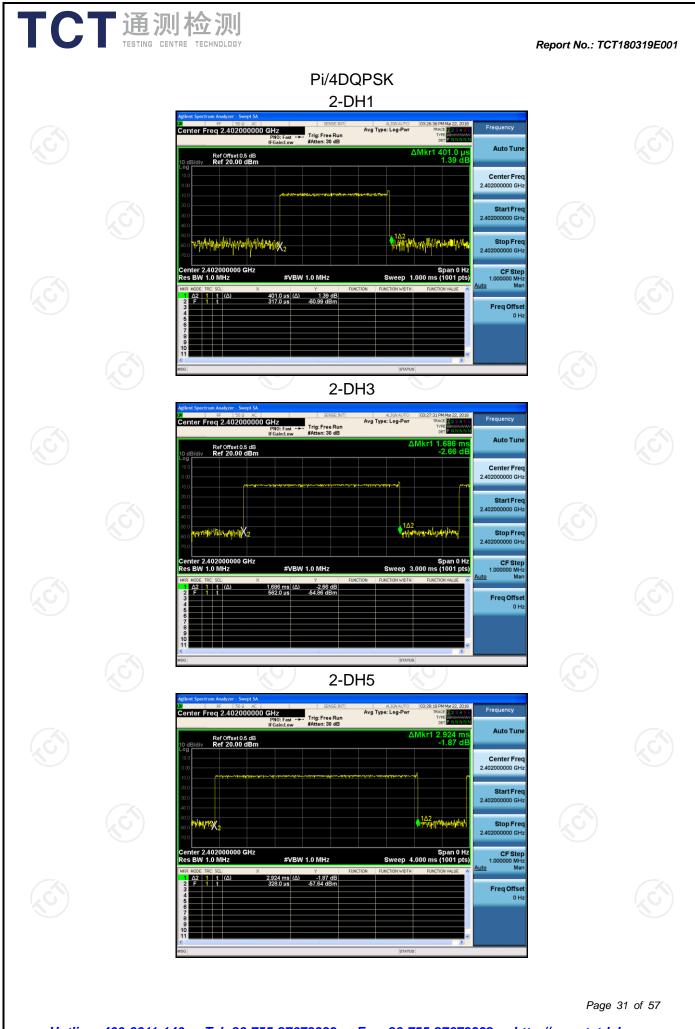
For DH5, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops

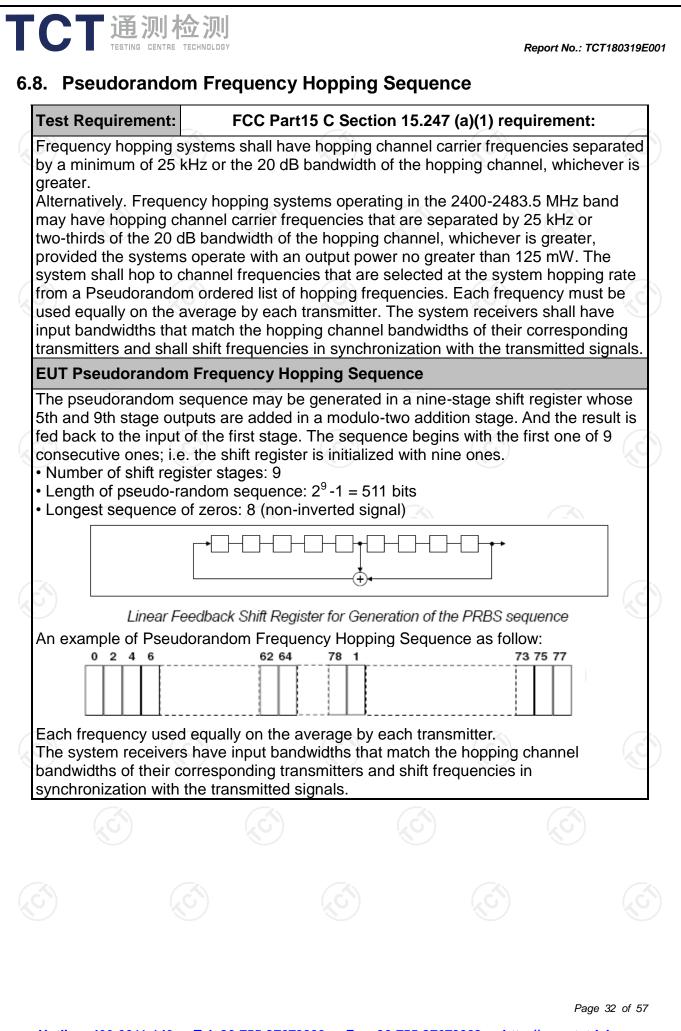
2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Test plots as follows:

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6.9. Conducted Band Edge Measurement

6.9.1. Test Specification

FCC Part15 C Section 15.247 (d)				
ANSI C63.10:2013				
In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.				
Spectrum Analyzer EUT				
Transmitting mode with modulation				
 The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2013 Measurement Guidelines. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report. 				
PASS				

6.9.2. Test Instruments

Equipment	quipment Manufacturer		Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.9.3. Test Data

GFSK Modulation



Report No.: TCT180319E001



Pi/4DQPSK Modulation

