FCC REPORT

Applicant: Burg Realisation HongKong Limited

Address of Applicant:

Room 1002, 10th Floor Malaysia Building, 50 Gloucester Road,

Wanchai, Hong Kong, China

Equipment Under Test (EUT)

Product Name: Smart Watch Phone

Model No.: Burg 16A

Trade mark: BURG

FCC ID: YIABURG16A

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 10 Jun., 2014

Date of Test: 11 Jun., to 27 Jun., 2014

Date of report issued: 27 Jun., 2014

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	27 Jun., 2014	Original

Prepared by: Date: 27 Jun., 2014

Juna Gao Report Clerk

Reviewed by: Date: 27 Jun., 2014

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	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	Pass
Band Edge	15.247(d)	Pass

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant: Burg Realisation HongKong Limited					
Address of Applicant:	Room 1002, 10th Floor Malaysia Building, 50 Gloucester Road, Wanchai, Hong Kong, China				
Manufacturer:	Guangzhou Youjia Communication Equipment Limited				
Address of Manufacturer:	Main Building, Meiyagao Jewelry Park, Shi Xin Road, Nancun Panyu, Guangzhou, China.				
Factory	Guangzhou Youjia Communication Equipment Limited				
Address of Factory	Main Building, Meiyagao Jewelry Park, Shi Xin Road, Nancun Panyi Guangzhou, China.				

5.2 General Description of E.U.T.

Product Name:	Smart Watch Phone
Model No.:	Burg 16A
Trade mark:	BURG
Operation Frequency:	2402MHz~2480MHz
Transfer rate:	1/2/3 Mbits/s
Number of channel:	79
Modulation type:	GFSK, π/4-DQPSK, 8DPSK
Modulation technology:	FHSS
Antenna Type:	Internal Antenna
Antenna gain:	0.8 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-300mAh



Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		



5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with worst case data rate.
Remark	GFSK (1 Mbps) is the worst case mode.

The sample was placed 0.8m 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 with a fresh battery, 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.

5.4 Description of Support Units

Manufacturer	Manufacturer Description		Serial Number	FCC ID/DoC	
LENOVO	Notebook	ThinkPad SL510	LR-7Y97D	DoC	

5.5 Laboratory Facility

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

● FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

● IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366



5.7 Test Instruments list

Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2014	June 08 2015		
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2014	May 24 2015		
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2014	May 24 2015		
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2014	Mar. 31 2015		
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2014	Mar. 31 2015		
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2014	Mar. 31 2015		
8	Coaxial Cable CCIS		N/A	CCIS0019	Apr. 01 2014	Mar. 31 2015		
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2014	Mar. 31 2015		
10	Pre-amplifier	HP	8447D	CCIS0003	Apr. 01 2014	Mar. 31 2015		
11	1 Pre-amplifier Compliance Dire		PAP-1G18	CCIS0011	June 09 2014	June 08 2015		
12			AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2014	Mar. 31 2015		
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2014	Mar. 29 2015		
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A		
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A		
16	Spectrum analyzer	Rohde & Schwarz	FSP30	CCIS0023	May. 25 2014	May. 24 2015		
17	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2014	May 24 2015		
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2013	Aug. 11 2014		
19	Universal radio		CMU200	CCIS0069	May. 25 2014	May. 24 2015		
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2014	May. 24 2015		

Cond	Conducted Emission:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)				
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2014	June 08 2015				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2014	May 24 2015				
3	LISN	CHASE	MN2050D	CCIS0074	Apr 01 2014	Mar. 31 2015				
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015				
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

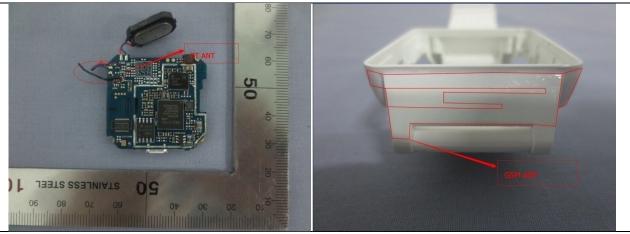
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 an integral antenna which permanently attached, and the best case gain of the antenna is 0.8 dBi.





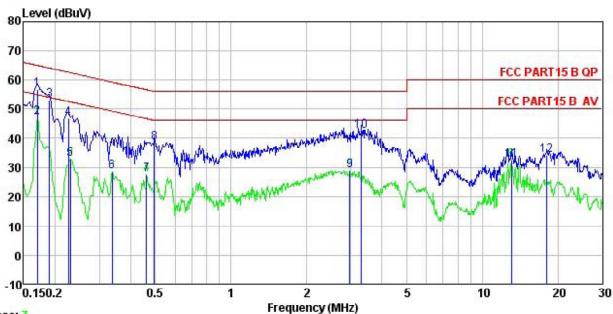
6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.4:2003						
Test Frequency Range:	150 kHz to 30 MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Swee	ep time=auto					
Limit:	5 (111)	Limit (d	IBuV)				
	Frequency range (MHz)	Quasi-peak Average					
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	46					
	5-30 60 50						
	* Decreases with the logarithm of the frequency.						
Test setup:	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m						
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. 						
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Bluetooth (Continuous transmittin	g) mode					
Test results:	Pass						
	1						

Measurement Data







Trace: 7

Site

: CCIS Conducted test Site : FCC PART15 B QP LISN LINE Condition

Job. no

: Smart Watch Phone : Burg 16A EUT

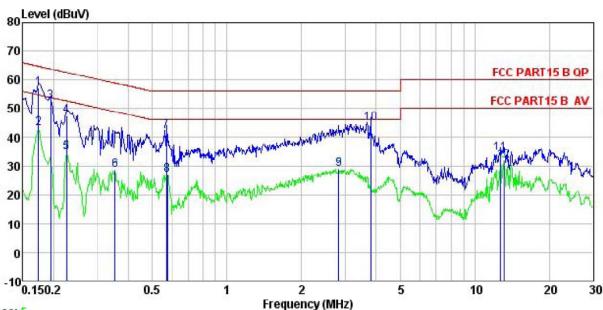
Model Test Mode : BT mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Garen

kemark -	•							
	Freq	Read Level	LISN Factor		Level	Limit Line		Remark
	1104	10001	1 40 (01	1000	LOVOL	22110	- LINE	ROMALK
	MHz	dBu∀	₫B	₫B	dBu∀	dBu∀	₫B	
1	0.170	45.64	0.27	10.77	56.68	64.94	-8.26	QP
2	0.170	36.14	0.27	10.77	47.18	54.94	-7.76	Average
3	0.190	42.16	0.28	10.76	53.20	64.02	-10.82	QP
4	0.226	35.76	0.27	10.75	46.78	62.61	-15.83	QP
1 2 3 4 5 6 7 8 9	0.230	21.81	0.27	10.75	32.83	52.44	-19.61	Average
6	0.337	17.65	0.27	10.73	28.65	49.27	-20.62	Average
7	0.461	16.59	0.29	10.75	27.63	46.67	-19.04	Average
8	0.497	27.40	0.29	10.76	38.45	56.05	-17.60	QP
9	2.978	17.82	0.27	10.92	29.01	46.00	-16.99	Average
10	3.310	31.17	0.27	10.91	42.35	56.00	-13.65	QP
11	13.057	21.14	0.32	10.91	32.37	50.00	-17.63	Average
12	18.039	23.09	0.33	10.90	34.32		-25.68	



Neutral:



Trace: 5

: CCIS Conducted test Site : FCC PART15 B QP LISN NEUTRAL Site Condition

Job. no EUT Smart Watch Phone

Model : Burg 16A Test Mode : BT mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer: Garen

Remark

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∇	<u>dB</u>	dB	dBu∀	dBu∇	<u>dB</u>	
1	0.174	45.94	0.25	10.77	56.96	64.77	-7.81	QP
2	0.174	32.24	0.25	10.77	43.26	54.77	-11.51	Average
3	0.194	41.45	0.25	10.76	52.46	63.84	-11.38	QP
4	0.226	36.62	0.25	10.75	47.62	62.61	-14.99	QP
5	0.226	23.88	0.25	10.75	34.88	52.61	-17.73	Average
6	0.354	17.66	0.25	10.73	28.64	48.87	-20.23	Average
1 2 3 4 5 6 7 8 9	0.570	30.96	0.25	10.77	41.98	56.00	-14.02	QP
8	0.573	15.72	0.25	10.77	26.74	46.00	-19.26	Average
9	2.824	17.62	0.29	10.93	28.84	46.00	-17.16	Average
10	3.799	33.60	0.29	10.90	44.79	56.00	-11.21	QP
11	12.649	23.42	0.25	10.91	34.58	60.00	-25.42	QP
12	13.057	20.77	0.25	10.91	31.93	50.00	-18.07	Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss



6.3 Conducted Output Power

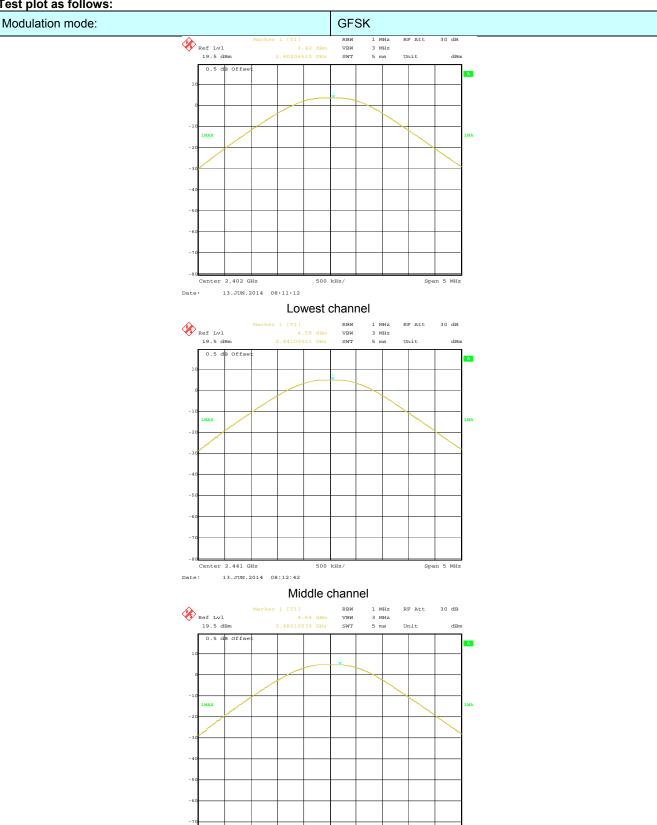
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.4:2003 and DA00-705		
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)		
Limit:	125 mW(21 dBm)		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Non-hopping mode		
Test results:	Pass		

Measurement Data

easurement Data					
GFSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	3.42	21.00	Pass		
Middle	4.58	21.00	Pass		
Highest	4.64	21.00	Pass		
	π/4-DQPSK r	node			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	2.75	21.00	Pass		
Middle	4.02	21.00	Pass		
Highest 4.15		21.00	Pass		
8DPSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	2.87	21.00	Pass		
Middle	4.13	21.00	Pass		
Highest	4.26	21.00	Pass		



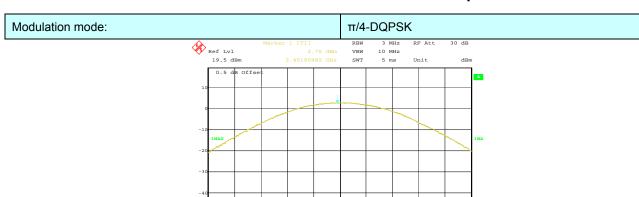
Test plot as follows:



Center 2.48 GHz

13.JUN.2014 08:13:06



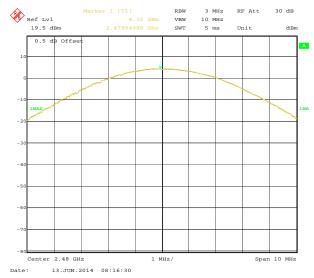


Date: 13.JUN.2014 08:15:49

Lowest channel



Middle channel



Highest channel



Modulation mode:

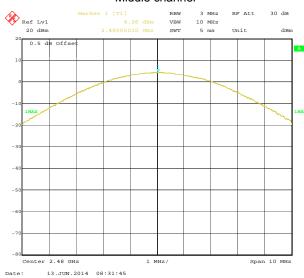
Report No: CCIS14040020401



Lowest channel



Middle channel



Highest channel



6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.4:2003 and DA00-705		
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak		
Limit:	NA		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Non-hopping mode		
Test results:	Pass		

Measurement Data

Toot channel		20dB Occupy Bandwidth (kHz)	
Test channel	GFSK	π/4-DQPSK	8DPSK
Lowest	841.68	1146.29	1186.37
Middle	845.69	1142.28	1178.36
Highest	845.69	1142.28	1174.35

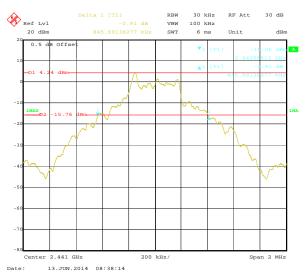
Test plot as follows:



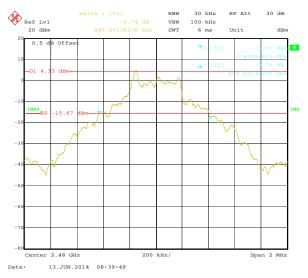




Lowest channel

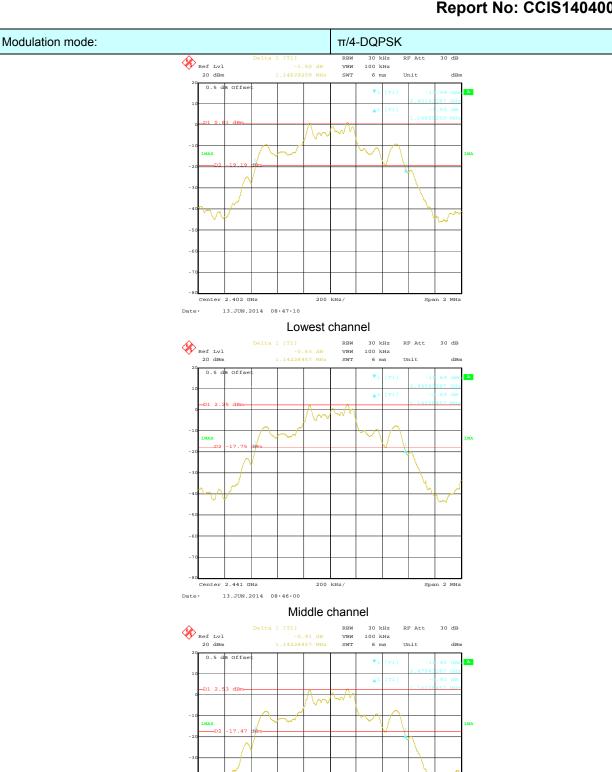


Middle channel



Highest channel

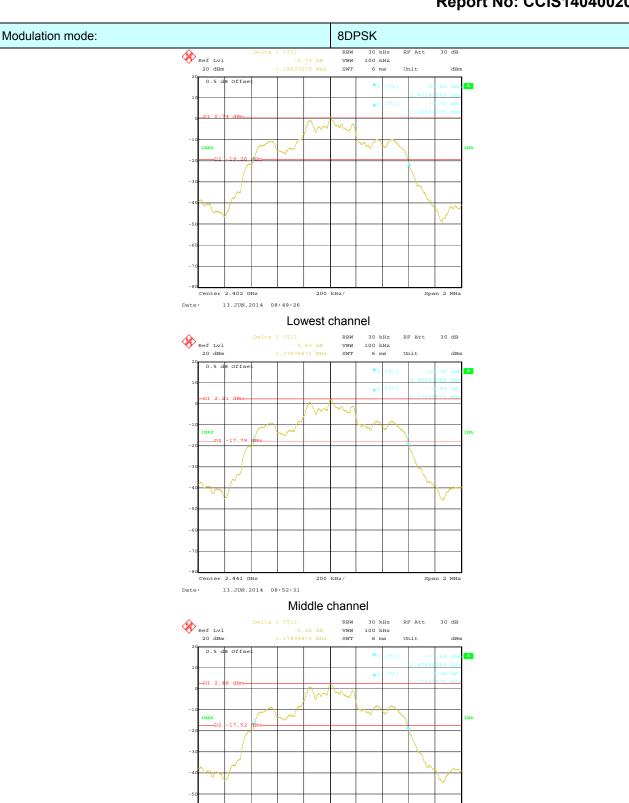




Highest channel

13.JUN.2014 08:43:02





Highest channel

13.JUN.2014 08:55:48



6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.4:2003 and DA00-705		
Receiver setup:	RBW=100 kHz, VBW=300 kHz, detector=Peak		
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)		
Test setup:	Spectrum Analyzer Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Hopping mode		
Test results:	Pass		

Measurement Data



GFSK mode						
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result			
Lowest	1002	563.79	Pass			
Middle	1002	563.79	Pass			
Highest	1002	563.79	Pass			
	π/4-DQPSK mod	le				
Test channel	Test channel Carrier Frequencies Separation (kHz)		Result			
Lowest	1002	764.19	Pass			
Middle	1002	764.19	Pass			
Highest	1002	764.19	Pass			
	8DPSK mode					
Test channel	Test channel Carrier Frequencies Separation (kHz)		Result			
Lowest	1002	790.91	Pass			
Middle	Middle 1002		Pass			
Highest 1002		790.91	Pass			

Note: According to section 6.4

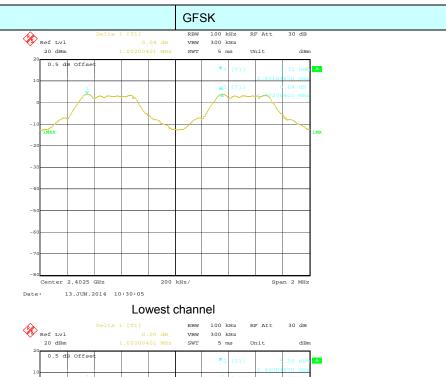
Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	845.69	563.79
π/4-DQPSK	1146.29	764.19
8DPSK	1186.37	790.91

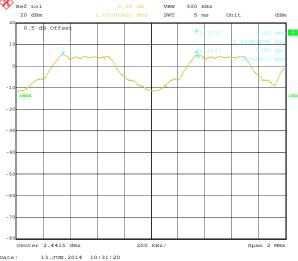
Test plot as follows:

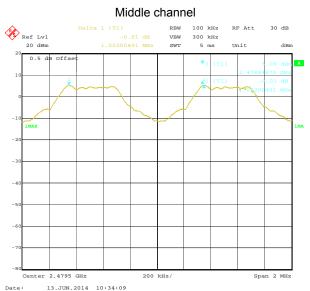


Modulation mode:

Report No: CCIS14040020401





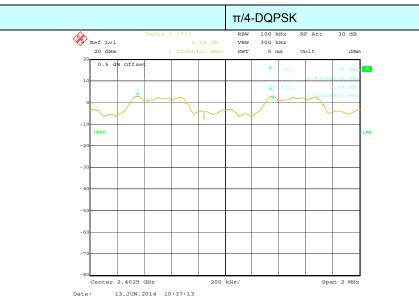


Highest channel

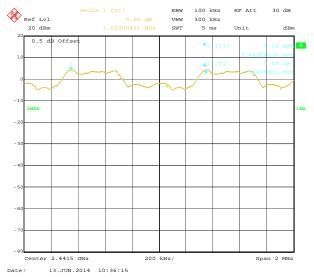


Modulation mode:

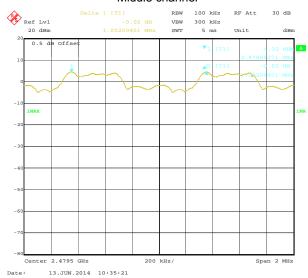
Report No: CCIS14040020401



Lowest channel

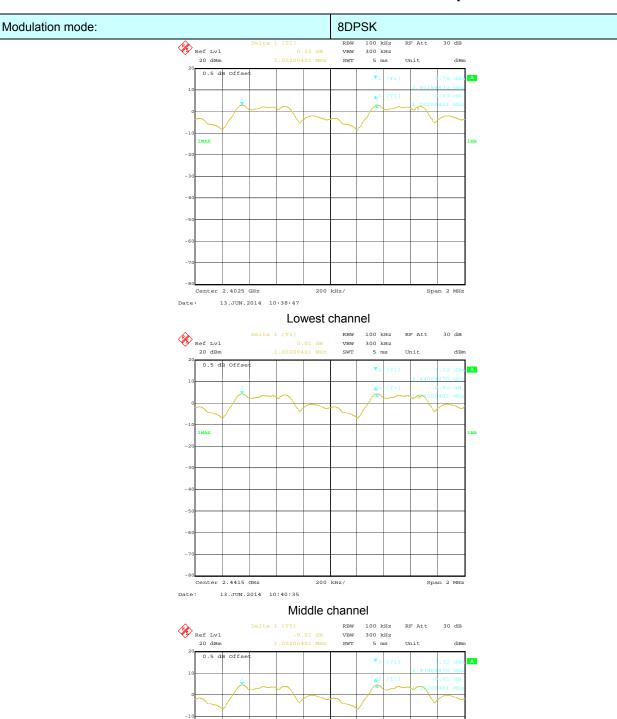


Middle channel



Highest channel





20 dBm 1.00200401 MHz SWT 5 ms Unit dBm

0.5 dB Offset V1 (T1) 3.4788 M 3.4788 M

10 1 20 40 1 MHz

110 1 3.4788 M 3.478



6.6 Hopping Channel Number

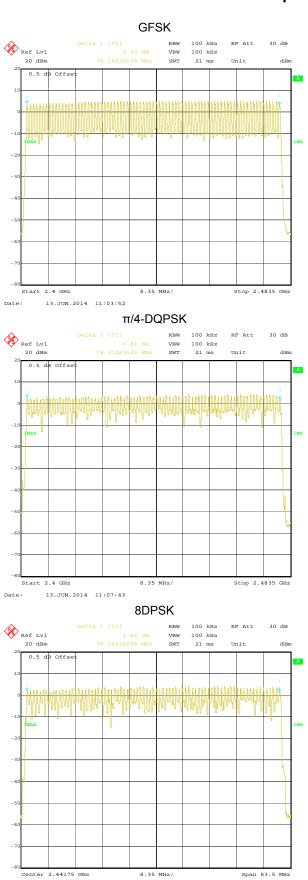
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.4:2003 and DA00-705		
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak		
Limit:	15 channels		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Hopping mode		
Test results:	Pass		

Measurement Data:

Mode Hopping channel numbers		Limit	Result
GFSK, π/4-DQPSK, 8DPSK	79	15	Pass







Date:

13.JUN.2014 11:10:24



6.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.4:2003 and KDB DA00-705		
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak		
Limit:	0.4 Second		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Hopping mode		
Test results:	Pass		

Measurement Data (Worse case)

Mode	Packet	Dwell time (second)	Limit (second)	Result	
	DH1	0.12576			
GFSK	DH3	0.26576	0.4	Pass	
	DH5	0.31317			
	2-DH1	0.12768	0.4	Pass	
π /4-DQPSK	2-DH3	0.27280			
	2-DH5	0.31381			
	3-DH1	0.12576			
8DPSK	3-DH3	0.26480	0.4 Pass	Pass	
	3-DH5	0.31339			

For GFSK, $\pi/4$ -DQPSK and 8DPSK:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

DH1 time slot=0.393*(1600/(2*79))*31.6=125.76 ms DH3 time slot=1.661*(1600/(4*79))*31.6=265.76 ms DH5 time slot=2.936(1600/(6*79))*31.6=313.17 ms

2-DH1 time slot=0.399*(1600/ (2*79))*31.6=127.68 ms

2-DH3 time slot=1.705*(1600/(4*79))*31.6=272.80 ms

2-DH5 time slot=2.942(1600/ (6*79))*31.6=313.81ms

3-DH1 time slot=0.393*(1600/ (2*79))*31.6=125.76 ms

3-DH3 time slot=1.655*(1600/ (4*79))*31.6=264.80 ms

3-DH5 time slot=2.938(1600/ (6*79))*31.6=313.39 ms



Test plot as follows:

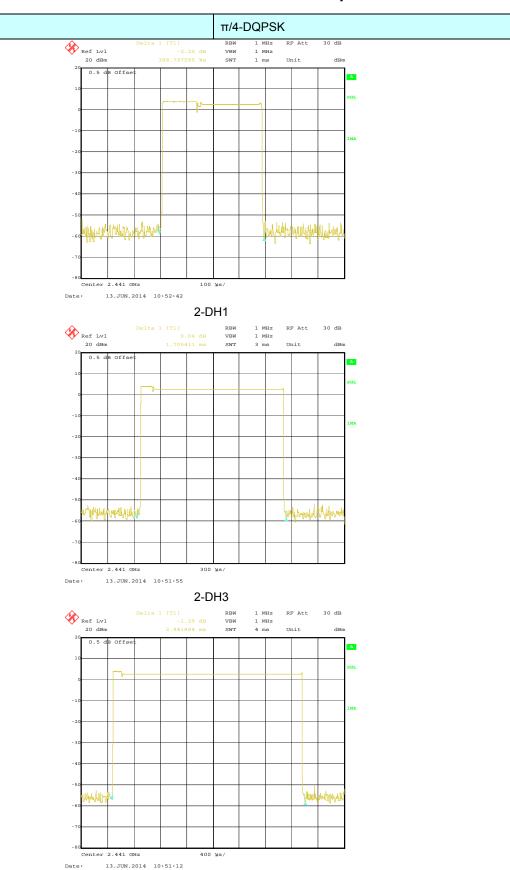


DH5



Modulation mode:

Report No: CCIS14040020401

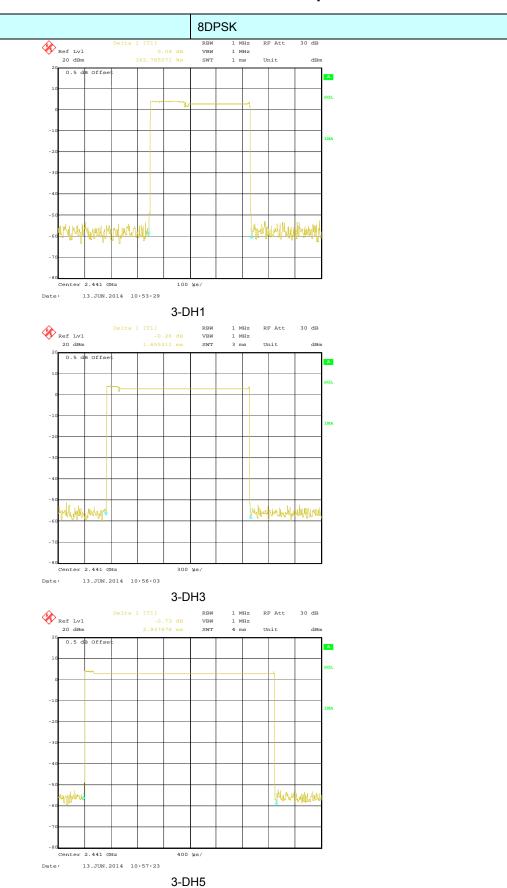


2-DH5



Modulation mode:

Report No: CCIS14040020401





6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

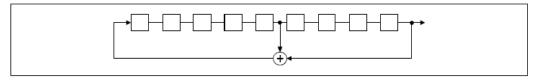
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. 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, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

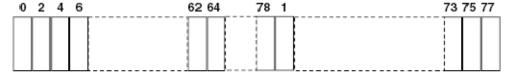
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2⁹-1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.



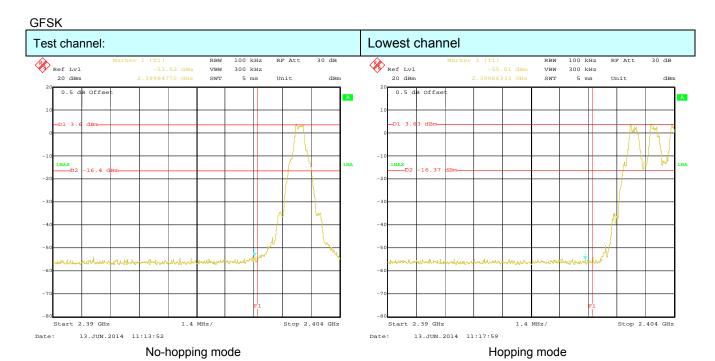
6.9 Band Edge

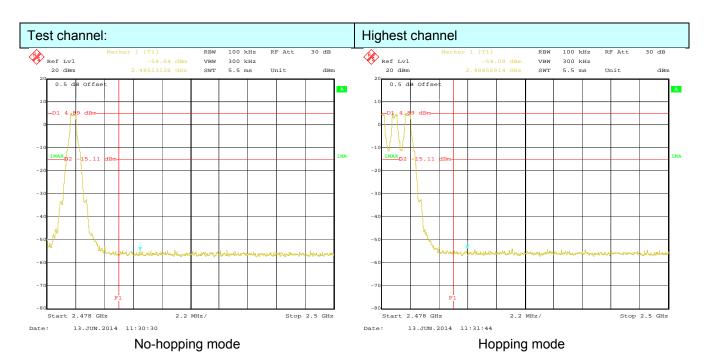
6.9.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and DA00-705
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass

Test plot as follows:

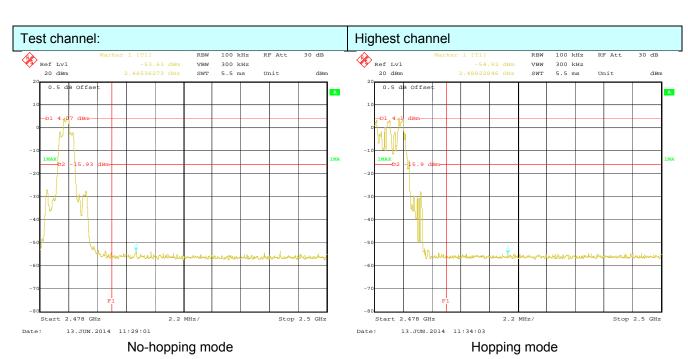




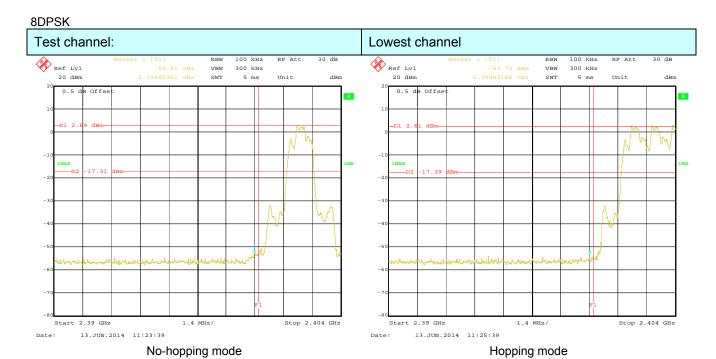


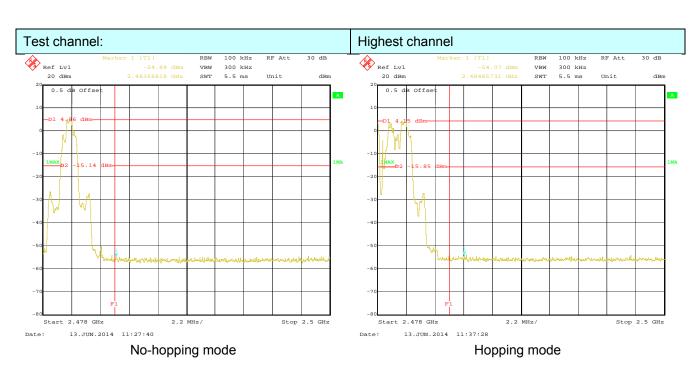














6.9.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209 and	d 15.205		
Test Method:	ANSI C63.4: 2003	3			
Test Frequency Range:	2.3GHz to 2.5GH	Z			
Test site:	Measurement Dis	stance: 3m			
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
		Peak	1MHz	3MHz	Peak Value
	Above 1GHz	Peak	1MHz	10Hz	Average Value
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Remark
	Above 1	GHz	54.0		Average Value
	7.5575	01.12	74.0	0	Peak Value
Test setup:	Turn Table	4m 4m		Antenna Horn Ant Spectrum Analyzer Ampli	enna
Test Procedure:	at a 3 meter of position of the position of the 2. The EUT was was mounted 3. The antenna hadetermine the polarizations of 4. For each suspitude antenna was turned from 5. The test-receives Bandwidth wit 6. If the emission specified, there had be reported. Or re-tested one	amber. The table highest radiation set 3 meters awon the top of a verified from aximum value of the antenna are tected emission, as tuned to heigh of the antenna to degrees to a ver system was an Maximum Hold to level of the EU testing could be otherwise the em	e was rotated in. ay from the in: ariable-height om one meter of the field stree set to make the EUT was hts from 1 me 360 degrees to set to Peak De Mode. If in peak mode e stopped and issions that di ak, quasi-peak	terference-re antenna tow to four meter rength. Both the measure arranged to iter to 4 meter to 4 meter to 6 find the material function e was 10dB the peak valid not have 1	ers above the ground to horizontal and vertical ement. its worst case and then rs and the rota table ximum reading.
Test Instruments:	Refer to section 5				
Test mode:	Non-hopping mod	de			
Test results:	Passed				
Pemark:	1				

Remark:

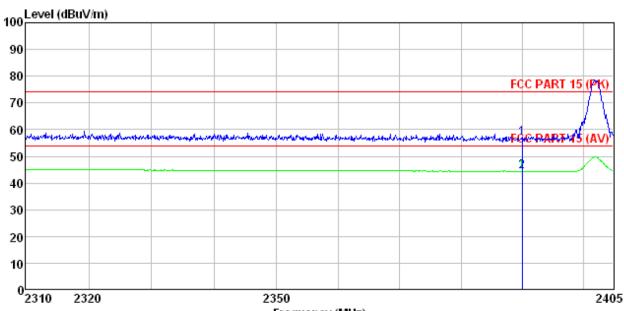
- 1. During the test, pre-scan the GFSK, $\pi/4$ -DQPSK, 8DPSK, and all data were shown in report.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.



GFSK mode

Test channel: Lowest

Horizontal:



Trace: 225

Frequency (MHz)

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : Smart watch Phone

: Burg 16A Model

Test mode : BT mode BE DH1-L Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

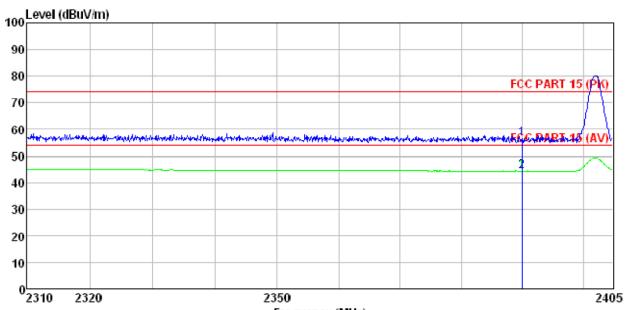
Test Engineer: Garen

Remark

JII CILI			Antenna Factor						Remark	
-	MHz	dBu∜	<u>dB</u> /m	dB	dB	dBuV/m	dBuV/m	<u>d</u> B		
	2390.000 2390.000									



Vertical:



Trace: 215

Frequency (MHz)

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

EUT : Smart watch Phone

: Burg 16A Model

Test mode : BT mode BE DH1-L Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Garen Remark :

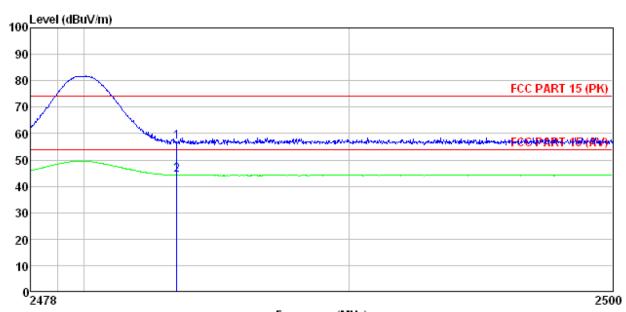
1 2

ii k	Freq		Antenna Factor							
	MHz	dBu∀	dB/m	₫B	₫B	dBuV/m	dBuV/m	₫B		
			27.58 27.58		0.00 0.00				Peak Average	



Test channel: Highest

Horizontal:



Frequency (MHz) Trace: 203

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : Smart watch Phone

Model : Burg 16A

Test mode : BT mode BE DH1-H Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

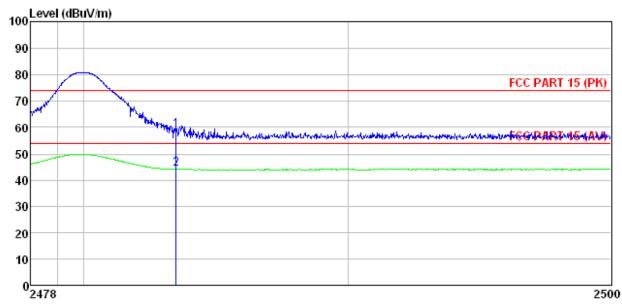
Test Engineer: Garen

Remark

	Freq		Antenna Factor						
	MHz	dBu∀	<u>dB</u> /m	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500								



Vertical:



Frequency (MHz) Trace: 213

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

EUT : Smart watch Phone

Model : Burg 16A
Test mode : BT mode BE DH1-H
Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Garen

Remark

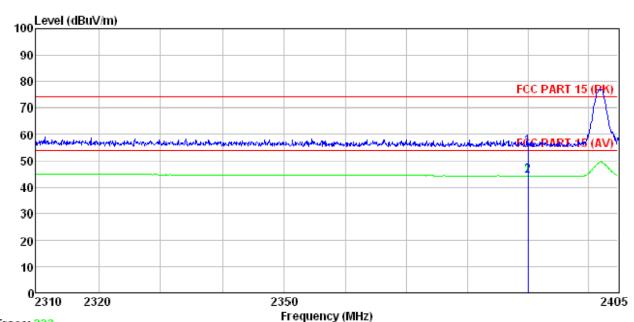
1 2

ark.	Freq		intenna Factor					Remark	
	MHz	dBu∀	dB/m	 	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>		-
			27.52 27.52					Peak Average	



π/4-DQPSK mode Test channel: Lowest

Horizontal:



Trace: 223

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: Smart watch Phone : Burg 16A EUT

Model

Test mode : BT mode BE 2DH1-L Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

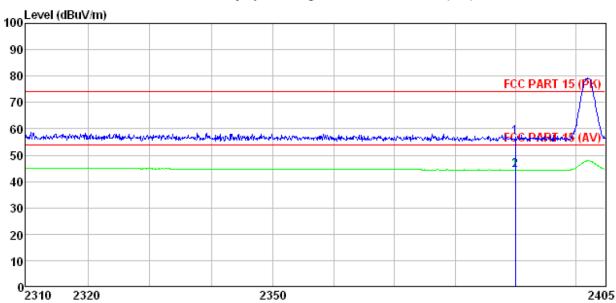
Test Engineer: Garen

Remark

	 Freq		Antenna Factor						Remark	
	MHz	dBu∜	<u>dB</u> /m	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>		
_	2390.000 2390.000									



Vertical:



Trace: 217

Frequency (MHz)

Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

: Smart watch Phone : Burg 16A EUT

Model

Test mode : BT mode BE 2DH1-L Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Garen

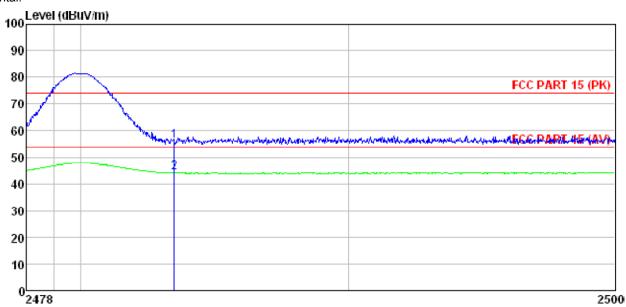
Remark

	Freq		Antenna Factor				Remark	
	MHz	—dBu∜		 <u>d</u> B	dBuV/m	dBuV/m	 	
_	2390.000 2390.000			 			 	



Test channel: Highest

Horizontal:



Frequency (MHz) Trace: 205

Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL

: Smart watch Phone : Burg 16A EUT

Model

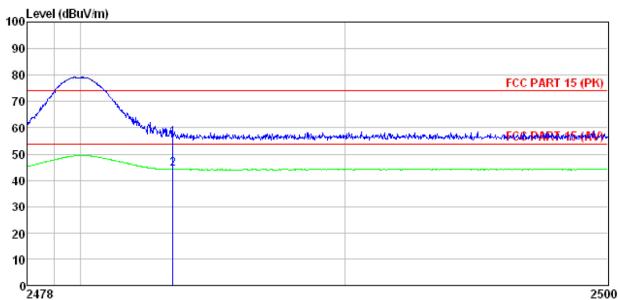
Test mode : BT mode BE 2DH1-H
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Garen
Remark

Remark

	Freq		Antenna Factor		-			
	MHz	dBu∜	<u>dB</u> /m	<u>dB</u>		dBuV/m	dBuV/m	
1 2	2483.500 2483.500							



Vertical:



Trace: 211

Frequency (MHz)

Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL

EUT : Smart watch Phone

Model : Burg 16A

Test mode : BT mode BE 2DH1-H Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55% Test Engineer: Garen

Remark

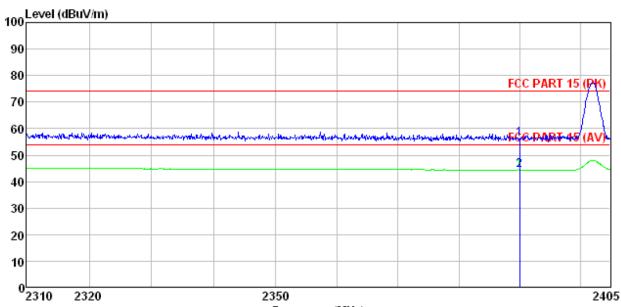
Freq			Preamp Factor			Remark
MHz	dBu∜	dB/m	 	dBuV/m	dBuV/m	
2483.500 2483.500						



8DPSK mode

Test channel: Lowest

Horizontal:



Trace: 221

Frequency (MHz)

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: Smart watch Phone EUT

Model : Burg 16A
Test mode : BT mode BE 3DH1-L
Power Rating : AC 120V/60Hz
Environment : Temp: 25.5 C Huni: 55%

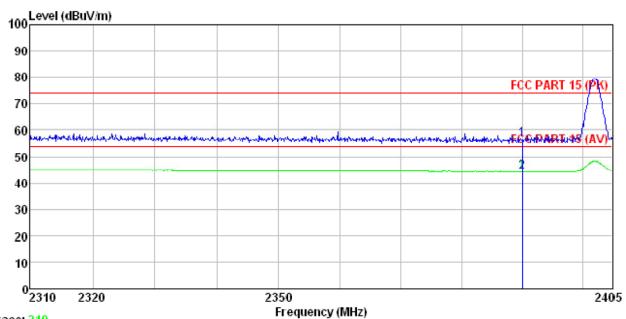
Test Engineer: Garen

Remark

Freq		Antenna Factor					
MHz	dBu∇	<u>dB</u> /m	 <u>ab</u>	dBuV/m	dBuV/m	<u>dB</u>	
2390.000 2390.000							



Vertical:



Trace: 219

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

: Smart watch Phone : Burg 16A EUT

Model

Test mode : BT mode BE 3DH1-L Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Garen

Remark

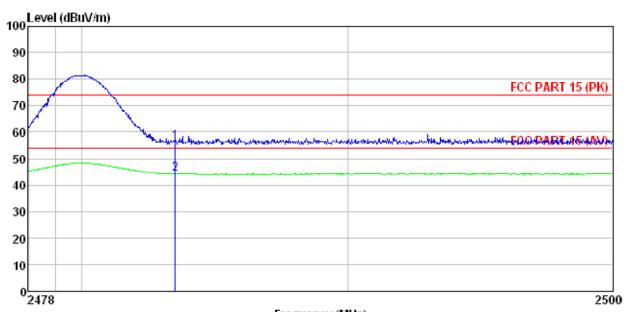
1 2

Freq			Cable Preamp Loss Factor				Remark
 MHz	dBu∜		<u>ab</u>	<u>dB</u>	dBuV/m	dBuV/m	
 		27.58 27.58		0.00 0.00			Peak Average



Test channel: Highest

Horizontal:



Trace: 207

Frequency (MHz)

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: Smart watch Phone : Burg 16A EUT

Model

Test mode : BT mode BE 3DH1-H
Power Rating : AC 120V/60Hz
Environment : Temp:25.5C Huni:55%

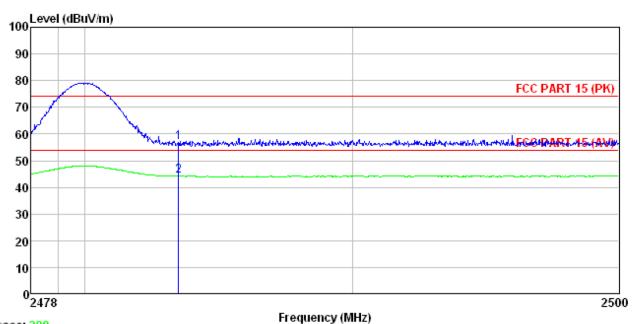
Test Engineer: Garen

Remark

.c.marr		Read	Antenna	Cable	Preamn		Limit	Over		
	Freq		Factor						Remark	
-	MHz	—dBu∜	<u>dB</u> /m	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	dB		
	2483.500 2483.500									



Vertical:



Trace: 209

Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

: Smart watch Phone : Burg 16A EUT

Model

Test mode : BT mode BE 3DH1-H Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55% Test Engineer: Garen

Remark

	Freq		Antenna Factor				
	MHz	dBu∜	dB/m	 	dBuV/m	dBuV/m	
1 2	2483.500 2483.500						



6.10 Spurious Emission

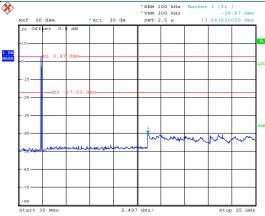
6.10.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
<u>'</u>	
Test Method:	ANSI C63.4:2003 and DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass



GFSK

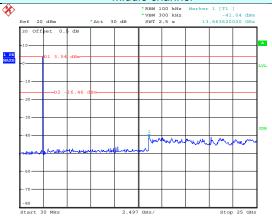




Date: 13.JUN.2014 19:27:32

30MHz~25GHz

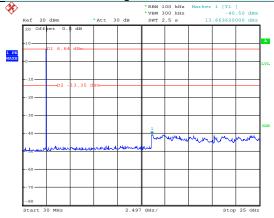
Middle channel



Date: 13.JUN.2014 19:28:57

30MHz~25GHz

Highest channel

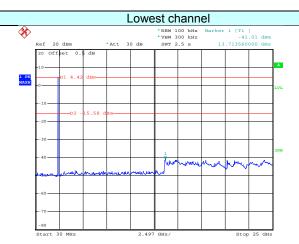


Date: 13.JUN.2014 19:31:31

30MHz~25GHz



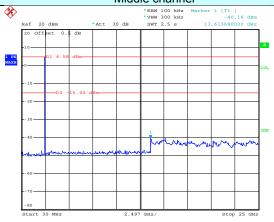
$\pi/4$ -DQPSK



Date: 13.JUN.2014 19:35:51

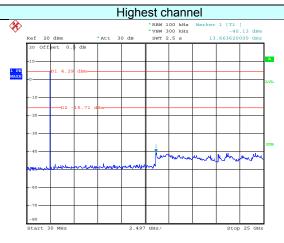
30MHz~25GHz

Middle channel



Date: 13.JUN.2014 19:34:48

30MHz~25GHz



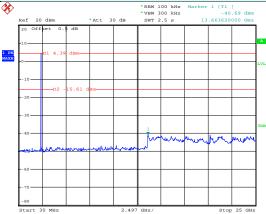
Date: 13.JUN.2014 19:32:54

30MHz~25GHz



8DPSK

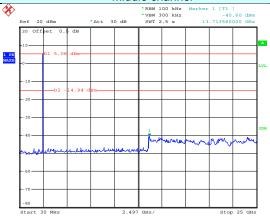




Date: 13.JUN.2014 19:37:05

30MHz~25GHz

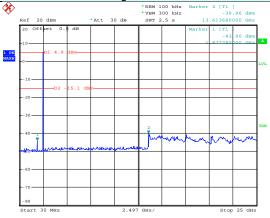
Middle channel



Date: 13.JUN.2014 19:38:36

30MHz~25GHz

Highest channel



Date: 13.JUN.2014 19:40:25

30MHz~25GHz



6.10.2 Radiated Emission Method

6.10.2 Radiated Emission Me		45.000					
Test Requirement:	FCC Part15 C Se						
Test Method:	ANSI C63.4: 2003						
Test Frequency Range:	9 kHz to 25 GHz						
Test site:	Measurement Distance: 3m						
Receiver setup:	Frequency Detector		RBW	VBW	Remark		
	30MHz-1GHz	OMHz-1GHz Quasi-peak		300kHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
	710000 10112	Peak	1MHz	10Hz	Average Value		
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Remark		
	30MHz-8	8MHz	40.0)	Quasi-peak Value		
	88MHz-21	16MHz	43.5	5	Quasi-peak Value		
	216MHz-9	60MHz	46.0)	Quasi-peak Value		
	960MHz-	1GHz	54.0)	Quasi-peak Value		
	Above 1	GHz -	54.0)	Average Value		
	7,5000	0112	74.0)	Peak Value		
	Turn Table Ground Plane Above 1GHz	3m < 1m		Antenna Tower Antenna Tower Horn Antenna Spectrum Analyzer			



Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Remark:

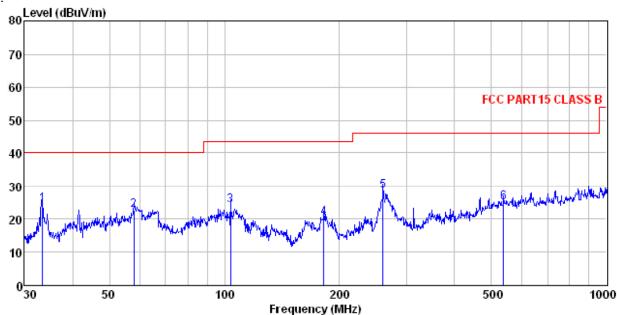
- 1. During the test, pre-scan the GFSK, $\pi/4$ -DQPSK, 8DPSK modulation, and found the GFSK modulation is the worst case.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.
- 3. 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.

Measurement data:



Below 1GHz

Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition

: Smart watch Phone : Burg 16A EUT

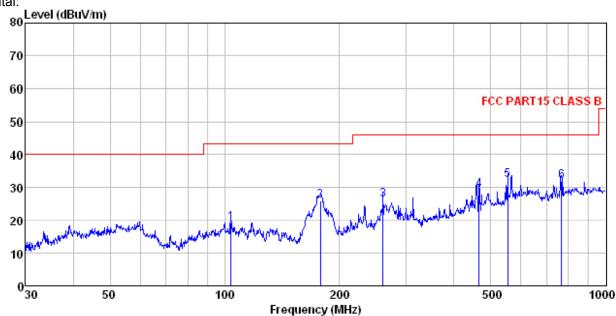
Model Test mode : BT Mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Garen REMARK :

<u>emark</u>	. :									
		ReadA	Intenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
_										
	\mathtt{MHz}	dBu∀	dB/m	dB	dΒ	dBuV/m	dBuV/m	dB		
1	33.445	41.70	12.31	0.47	29.96	24.52	40.00	-15.48	QP	
2	57.999	38.91	12.83	0.67	29.78	22.63	40.00	-17.37	QP	
3	103.806	39.82	12.78	0.99	29.50	24.09	43.50	-19.41	QP	
4	181.920	38.15	9.84	1.36	28.96	20.39	43.50	-23.11	QP	
5	260.144	43.36	12.09	1.65	28.52	28.58	46.00	-17.42	QP	
6	535.707	34.39	17.31	2.50	29.06	25.14	46.00	-20.86	QP	







Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Condition

EUT : Smart watch Phone

Model : Burg 16A
Test mode : BT Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5C

Huni:55%

Test Engineer: Garen REMARK :

EWWVV										
		Read	Ant enna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
_						35-57-	75-57-			
	MHz	dBu∀	qp/m	ФB	d₿	qpn//w	qpn//w	dB		
1	104.170	35.01	12.78	1.00	29.50	19.29	43.50	-24.21	QP	
2	178.133	44.05							-	
3	260.144	41.18	12.09	1.65	28.52	26.40	46.00	-19.60	QP	
4	465.599	39.99	15.71	2.30	28.90	29.10	46.00	-16.90	QP	
5	552.883	41.23	17.62	2.54	29.09	32.30	46.00	-13.70	QP	
6	766.057	37.43	19.63	3.08	28.39	31.75	46.00	-14.25	QP	



Above 1GHz:

Test channe	l:	L	owest		Level:		Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804	47.31	31.53	8.90	40.24	47.50	74.00	-26.50	Vertical	
7206	48.89	36.47	10.59	41.24	54.71	74.00	-19.29	Vertical	
4804	46.08	31.53	8.90	40.24	46.27	74.00	-27.73	Horizontal	
7206	46.36	36.47	10.59	41.24	52.18	74.00	-21.82	Horizontal	
Test channe	l:	L	owest		Level:		Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	38.26	31.53	8.90	40.24	38.45	54	-15.55	Vertical	
7206.00	38.70	36.47	10.59	41.24	44.52	54	-9.48	Vertical	
4804.00	37.93	31.53	8.90	40.24	38.12	54	-15.88	Horizontal	
7206.00	36.16	36.47	10.59	41.24	41.98	54	-12.02	Horizontal	

Test channe	l:	N	liddle		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	46.94	31.58	8.98	40.15	47.35	74.00	-26.65	Vertical
7323.00	47.14	36.47	10.69	41.15	53.15	74.00	-20.85	Vertical
4882.00	46.51	31.58	8.98	40.15	46.92	74.00	-27.08	Horizontal
7323.00	46.25	36.47	10.69	41.15	52.26	74.00	-21.74	Horizontal
Test channe	l:	N	liddle		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	37.65	31.58	8.98	40.15	38.06	54.00	-15.94	Vertical
7323.00	37.15	36.47	10.69	41.15	43.16	54.00	-10.84	Vertical
4882.00	37.89	31.58	8.98	40.15	38.30	54.00	-15.70	Horizontal
7323.00	36.27	36.47	10.69	41.15	42.28	54.00	-11.72	Horizontal

Test channe	l:	Н	lighest		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	50.97	31.69	9.08	40.03	51.71	74.00	-22.29	Vertical
7440.00	45.96	36.60	10.80	41.05	52.31	74.00	-21.69	Vertical
4960.00	48.66	31.69	9.08	40.03	49.40	74.00	-24.60	Horizontal
7440.00	46.27	36.60	10.80	41.05	52.62	74.00	-21.38	Horizontal
Test channel:							Average	
rest channe	l:	H	lighest		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level: Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
Frequency	Read Level	Antenna Factor	Cable Loss	Factor	Level		Over Limit	Polarization Vertical
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Factor (dB)	Level (dBuV/m)	(dBuV/m)	Over Limit (dB)	
Frequency (MHz) 4960.00	Read Level (dBuV) 41.58	Antenna Factor (dB/m) 31.69	Cable Loss (dB) 9.08	Factor (dB) 40.03	Level (dBuV/m) 42.32	(dBuV/m) 54.00	Over Limit (dB) -11.68	Vertical

Remark

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.