

Report No: CCIS15110088101

FCC REPORT

(Bluetooth)

Applicant: Grand Electronics, INC

Address of Applicant: 11650 Brentcross Dr Tomball, TX 77377, United States

Equipment Under Test (EUT)

Product Name: Tablet

Model No.: N10PLUS, N10p, N11plus, N11, N1-Octa

Trade mark: NeuTab

FCC ID: 2AGNKN10

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

Date of sample receipt: 12 Nov., 2015

Date of Test: 12 Nov., to 15 Dec., 2015

Date of report issued: 15 Dec., 2015

Test Result: PASS *

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

Authorized Signature:



Bruce Zhang 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	15 Dec., 2015	Original

Tested by: Steven Liu Date: 15 Dec., 2015

Test Engineer

Reviewed by: Date: 15 Dec., 2015

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:	Grand Electronics, INC
Address of Applicant:	11650 Brentcross Dr Tomball, TX 77377, United States
Manufacturer:	GRAND ELECTRI-TECH GLOBAL TRADING LIMITED
Address of Manufacturer:	UNIT 04, 7/F, BRIGHT WAY TOWER, NO. 33 MONG KOK ROAD, KOWLOON, HK.
Factory:	Shenzhen KAY HOLINESS technology limited.
Address of Factory:	3F 2 building Dadan industrial Jihua road Bantian Linggang District ShenZhen

5.2 General Description of E.U.T.

Des Let Manage	Tablet
Product Name:	Tablet
Model No.:	N10PLUS, N10p, N11plus, N11, N1-Octa
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:	1.5 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-4000mAh
AC adapter:	Model: HT-001-050200
·	Input:100-240V AC, 50/60Hz
	Output:5V DC MAX 2000mA
Remark:	Item No.: N10PLUS, N10p, N11plus, N11, N1-Octa were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.





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		



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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 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.

5.5 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





5.6 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 SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017			
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-28-2015	03-28-2016			
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016			
4	Pre-amplifier (10kHz-1.3GHz)	HP	HP 8447D		04-01-2015	03-31-2016			
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016			
6	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016			
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016			
8	Spectrum analyzer 9k-30GHz Rohde & Schwarz		FSP30	CCIS0023	03-28-2015	03-28-2016			
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016			
10	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016			

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	08-23-2014	08-22-2017				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016				
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016				
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016				
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 Part 15 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 1.5 dBi.







6.2 Conducted Emissions

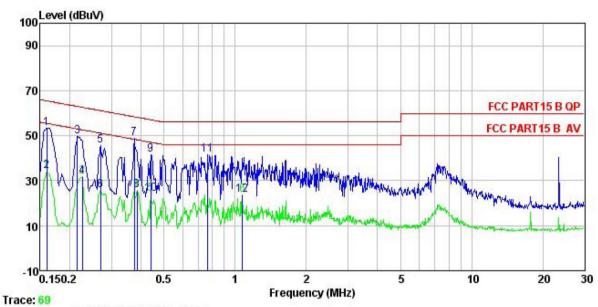
0.2	Conducted Linissions								
	Test Requirement:	FCC Part 15 C Section 15.207							
	Test Method:	ANSI C63.4:2009							
	Test Frequency Range:	150 kHz to 30 MHz							
	Class / Severity:	Class B							
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
	Limit:	F (1411.)	Limit (c	dBuV)					
		Prequency range (MHZ) Quasi-peak Average							
		0.15-0.5	66 to 56*	56 to 46*					
		0.5-5	56	46					
		5-30	50						
		* Decreases with the logarithn	n of the frequency.						
	Test setup:	Reference Plane	!	_					
		AUX Equipment Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.6m							
	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: 2009 on conducted measurement. 							
	Test Uncertainty:			±3.28 dB					
	Test Instruments:	Refer to section 5.7 for details							
	Test mode:	Bluetooth (Continuous transm							
	Test results:	Pass							
		<u>I</u>							

Measurement Data





Line:



Site

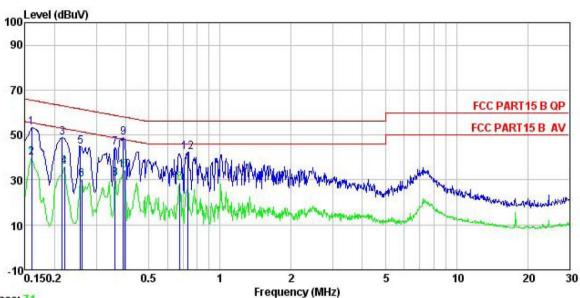
: CCIS Shielding Room : FCC PART15 B QP LISN LINE Condition

: NIUPLUS
Test Mode : BT mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: STEVEN
Remark : EUT Tablet

Nemark	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u>	dB	dBu₹	dBu₹	<u>ab</u>	
1	0.160	42.42	0.27	10.78	53.47	65.47	-12.00	QP
2	0.160	23.01	0.27	10.78	34.06	55.47	-21.41	Average
3	0.215	38.62	0.28	10.76	49.66	63.01	-13.35	QP
4	0.226	20.68	0.27	10.75	31.70	52.61	-20.91	Average
1 2 3 4 5 6 7 8	0.270	34.39	0.27	10.75	45.41	61.12	-15.71	QP
6	0.270	14.80	0.27	10.75	25.82	51.12	-25.30	Average
7	0.375	37.66	0.28	10.72	48.66	58.39	-9.73	QP
8	0.385	14.87	0.28	10.72	25.87	48.17	-22.30	Average
9	0.440	30.51	0.28	10.74	41.53	57.07	-15.54	QP
10	0.440	13.04	0.28	10.74	24.06	47.07	-23.01	Average
11	0.767	30.35	0.23	10.80	41.38	56.00	-14.62	QP
12	1.071	12.58	0.25	10.88	23.71	46.00	-22.29	Average



Neutral:



Trace: 71

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

EUT Tablet Model : N10PLUS Test Mode : BT mode Power Rating : AC 120V/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa Test Engineer: STEVEN

Remark

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u>		—dBu∜	dBu₹	<u>dB</u>	
1	0.160	42.24	0.25	10.78	53.27	65.47	-12.20	QP
2	0.160	28.97	0.25	10.78	40.00	55.47	-15.47	Average
3	0.215	37.87	0.25	10.76	48.88	63.01	-14.13	QP
1 2 3 4 5	0.220	24.88	0.25	10.76	35.89	52.83	-16.94	Average
5	0.258	33.79	0.26	10.75	44.80	61.51	-16.71	QP
	0.260	19.33	0.26	10.75	30.34	51.42	-21.08	Average
7 8 9	0.360	33.46	0.25	10.73	44.44	58.74	-14.30	QP
8	0.360	19.56	0.25	10.73	30.54	48.74	-18.20	Average
9	0.389	37.69	0.25	10.72	48.66	58.08	-9.42	QP
10	0.396	23.43	0.25	10.72	34.40	47.95	-13.55	Average
11	0.675	17.80	0.19	10.77	28.76	46.00	-17.24	Average
12	0.731	31.25	0.18	10.78	42.21	56.00	-13.79	QP

- 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 Part 15 C Section 15.247 (b)(3)	
Test Method:	ANSI C63.10:2009 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	

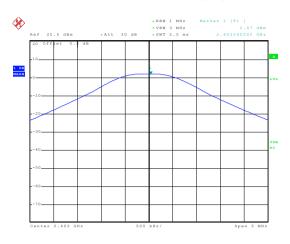
Measurement Data

	GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result	
Lowest	2.07	21.00	Pass	
Middle	2.36	21.00	Pass	
Highest	2.48	21.00	Pass	
	π/4-DQPSK ι	mode		
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result	
Lowest	3.04 21.00		Pass	
Middle	3.74 21.00		Pass	
Highest	3.99	21.00	Pass	
	8DPSK mode			
Test channel	Peak Output Power (dBm) Limit (dBm) R		Result	
Lowest	3.26 21.00 Pass		Pass	
Middle	4.02 21.00 Pass		Pass	
Highest	4.29	21.00	Pass	



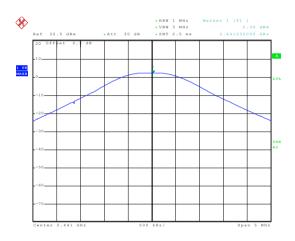
Test plot as follows:

Modulation mode: GFSK



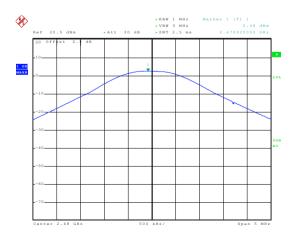
Date: 1.DEC.2015 13:07:31

Lowest channel



Date: 1.DEC.2015 13:10:11

Middle channel

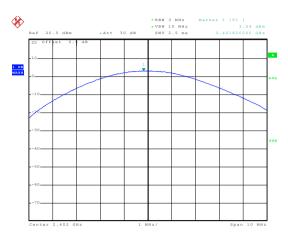


Date: 1.DEC.2015 13:12:10

Highest channel



Modulation mode: π/4-DQPSK



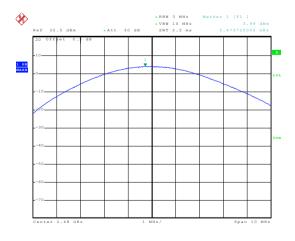
Date: 9.DEC.2015 04:06:09

Lowest channel



Date: 9.DEC.2015 04:07:42

Middle channel

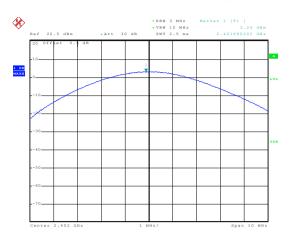


Date: 9.DEC.2015 04:10:14

Highest channel

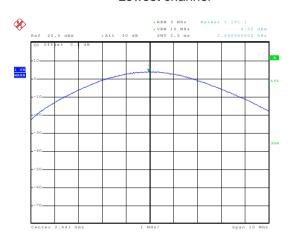


Modulation mode: 8DPSK



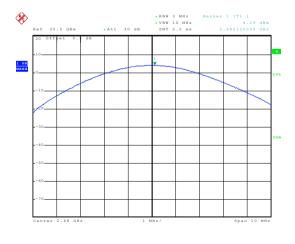
Date: 9.DEC.2015 04:13:30

Lowest channel



Date: 9.DEC.2015 04:12:53

Middle channel



Date: 9.DEC.2015 04:11:58

Highest channel



6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2009 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	

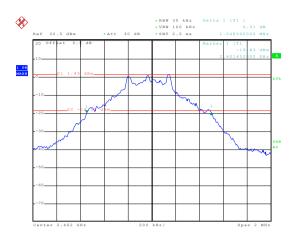
Measurement Data

Toot channel	20dB Occupy Bandwidth (kHz)		
Test channel	GFSK	π/4-DQPSK	8DPSK
Lowest	1048	1240	1280
Middle	1044	1232	1284
Highest	1044	1248	1284

Test plot as follows:

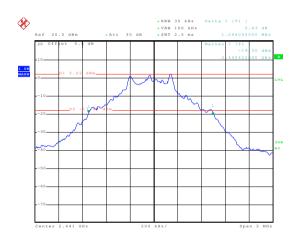


Modulation mode: GFSK



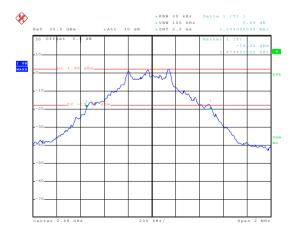
Date: 1.DEC.2015 13:33:15

Lowest channel



Date: 1.DEC.2015 13:37:54

Middle channel

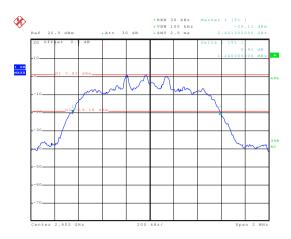


Date: 1.DEC.2015 13:41:10

Highest channel

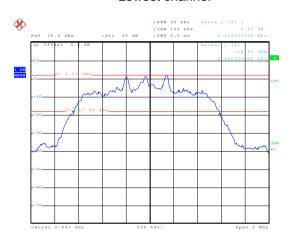


Modulation mode: π/4-DQPSK



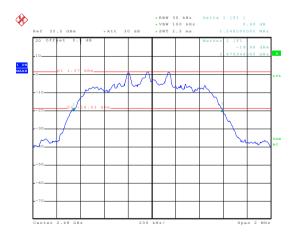
Date: 1.DEC.2015 13:44:26

Lowest channel



Date: 1.DEC.2015 13:46:52

Middle channel

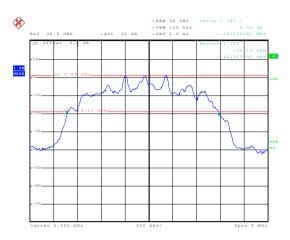


Date: 1.DEC.2015 13:49:17

Highest channel

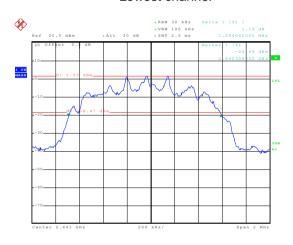


Modulation mode: 8DPSK



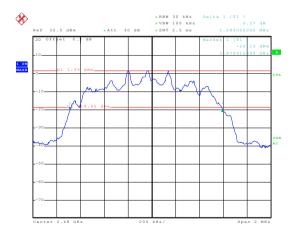
Date: 1.DEC.2015 13:52:15

Lowest channel



Date: 1.DEC.2015 13:54:50

Middle channel



Date: 1.DEC.2015 13:56:54

Highest channel





6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2009 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 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





GFSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1004	698.67	Pass
Middle	1012	698.67	Pass
Highest	1004	698.67	Pass
	π/4-DQPSK mo	de	
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1004	832.00	Pass
Middle	1004	832.00	Pass
Highest	1004	832.00	Pass
8DPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1008 856.00 Pass		Pass
Middle	1004 856.00 Pass		Pass
Highest	1004 856.00 Pass		Pass

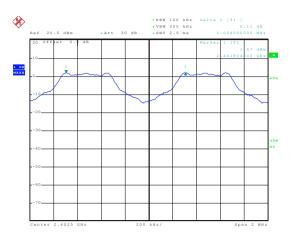
Note: According to section 6.4

Note. According to section	U. T	
Mode	20dB bandwidth (kHz)	Limit (kHz)
Wode	(worse case)	(Carrier Frequencies Separation)
GFSK	1048	698.67
π/4-DQPSK	1248	832.00
8DPSK	1284	856.00

Test plot as follows:

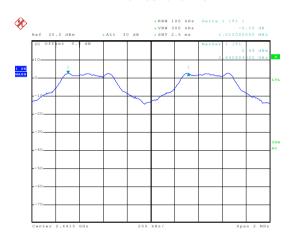


Modulation mode: GFSK



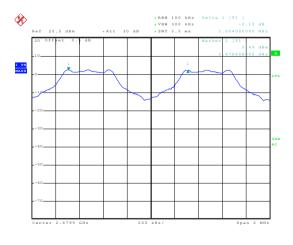
Date: 1.DEC.2015 14:05:44

Lowest channel



Date: 1.DEC.2015 14:09:21

Middle channel

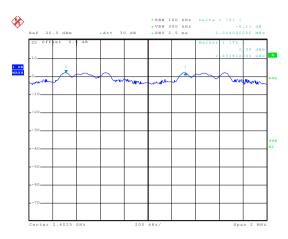


Date: 1.DEC.2015 14:12:37

Highest channel

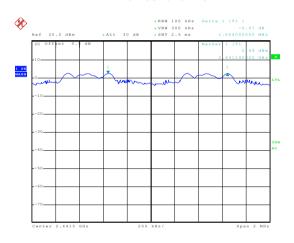


Modulation mode: π/4-DQPSK



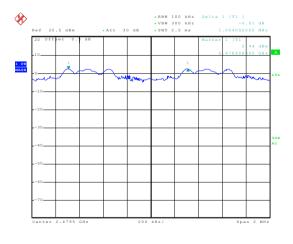
Date: 1.DEC.2015 14:15:58

Lowest channel



Date: 1.DEC.2015 14:18:23

Middle channel

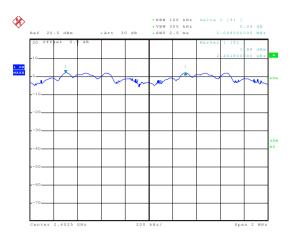


Date: 1.DEC.2015 14:21:46

Highest channel

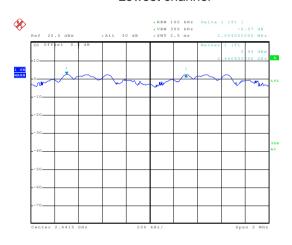


Modulation mode: 8DPSK



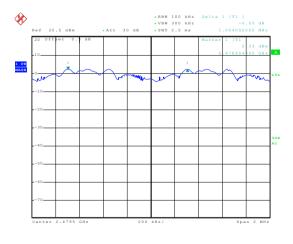
Date: 1.DEC.2015 14:31:25

Lowest channel



Date: 1.DEC.2015 14:34:02

Middle channel



Date: 1.DEC.2015 14:36:33

Highest channel



6.6 Hopping Channel Number

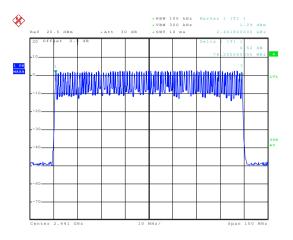
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2009 and DA00-705	
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak	
Limit:	15 channels	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	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

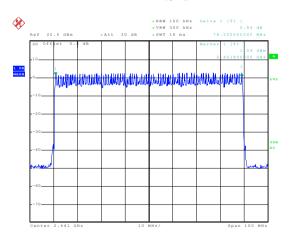


GFSK



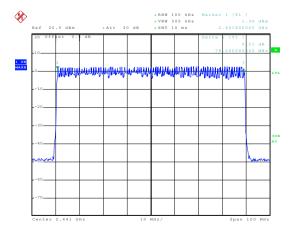
Date: 1.DEC.2015 14:48:36

π/4-DQPSK



Date: 1.DEC.2015 14:52:20

8DPSK



Date: 1.DEC.2015 14:59:23



6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2009 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)

	<u> </u>			
Mode	Packet	Dwell time (second)	Limit (second)	Result
	DH1	0.13568		
GFSK	DH3	0.27552	0.4	Pass
	DH5	0.31744		
	2-DH1	0.13696		
π/4-DQPSK	2-DH3	0.27168	0.4	Pass
	2-DH5	0.31573		
	3-DH1	0.13760		
8DPSK	3-DH3	0.27168	0.4	Pass
	3-DH5	0.31659		

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

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

DH1 time slot=0.424*(1600/(2*79))*31.6=135.68ms DH3 time slot=1.722*(1600/(4*79))*31.6=275.52ms DH5 time slot=2.976*(1600/(6*79))*31.6=317.44ms

2-DH1 time slot=0.428*(1600/ (2*79))*31.6=136.96ms

2-DH3 time slot=1.698*(1600/ (4*79))*31.6=271.68ms

2-DH5 time slot=2.960*(1600/ (6*79))*31.6=315.73ms

3-DH1 time slot=0.430*(1600/ (2*79))*31.6=137.60ms

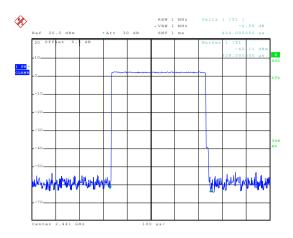
3-DH3 time slot=1.698*(1600/ (4*79))*31.6=271.68ms

3-DH5 time slot=2.968*(1600/ (6*79))*31.6=316.59ms



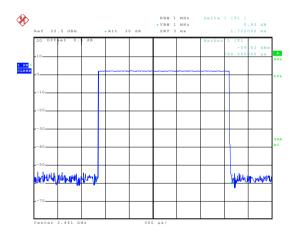
Test plot as follows:

Modulation mode: GFSK



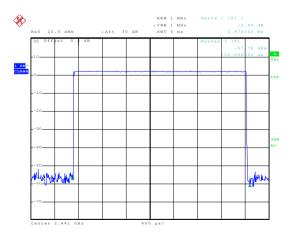
Date: 1.DEC.2015 15:05:33

DH1



Date: 1.DEC.2015 15:08:29

DH3

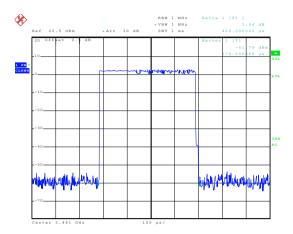


Date: 1.DEC.2015 15:10:17

DH5

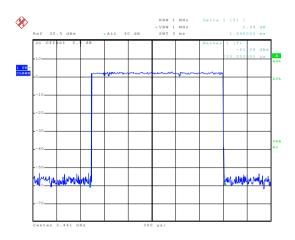


Modulation mode: π/4-DQPSK



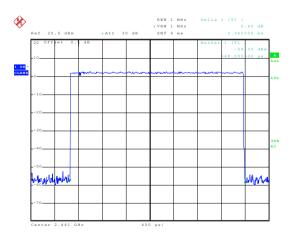
Date: 1.DEC.2015 15:12:57

2-DH1



Date: 1.DEC.2015 15:15:06

2-DH3

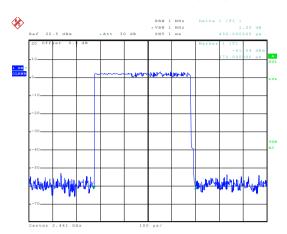


Date: 1.DEC.2015 15:16:43

2-DH5

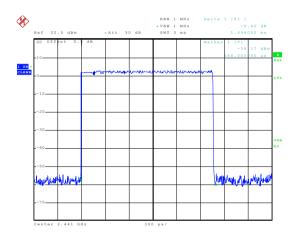


Modulation mode: 8DPSK



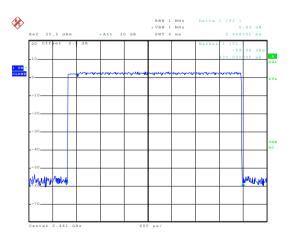
Date: 1.DEC.2015 15:18:29

3-DH1



Date: 1.DEC.2015 15:20:19

3-DH3



Date: 1.DEC.2015 15:21:34

3-DH5

Report No: CCIS15110088101

6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part 15 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

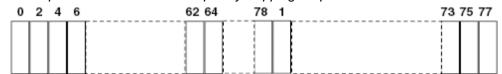
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

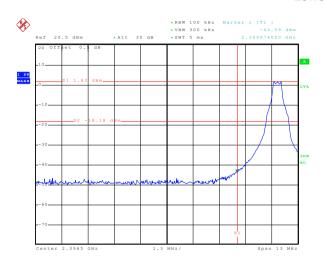
Test Requirement:	FCC Part 15 C Section 15.247 (d)		
Test Method:	ANSI C63.10:2009 and DA00-705		
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power 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		

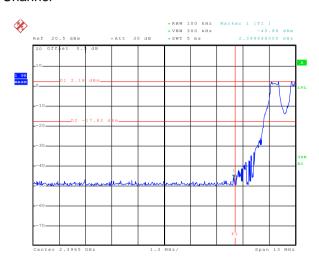
Test plot as follows:



GFSK

Lowest Channel





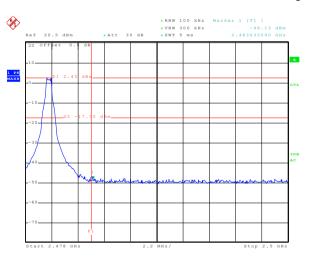
Date: 1.DEC.2015 16:13:07

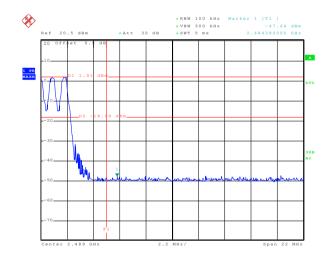
No-hopping mode

Date: 1.DRC.2015 16:42:44

Hopping mode

Highest Channel





Date: 1.DEC.2015 16:26:20

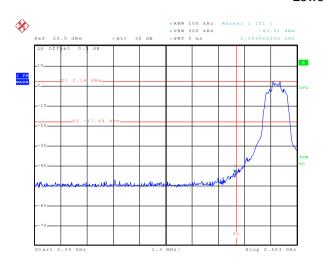
No-hopping mode

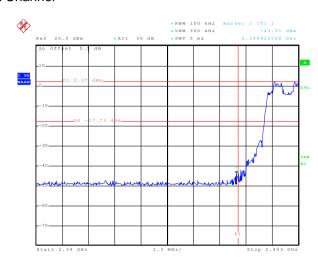
Date: 1.DEC.2015 16:45:23 Hopping mode



$\pi/4$ -DQPSK

Lowest Channel



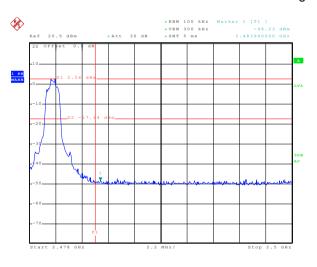


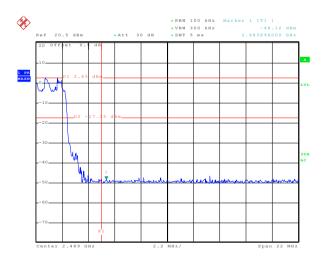
Date: 1.DEC.2015 16:30:28

No-hopping mode

Hopping mode

Highest Channel





Date: 1.DEC.2015 16:28:52

No-hopping mode

Date: 1.DEC.2015 16:49:50

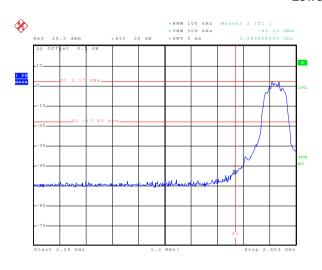
Date: 1.DEC.2015 16:54:42

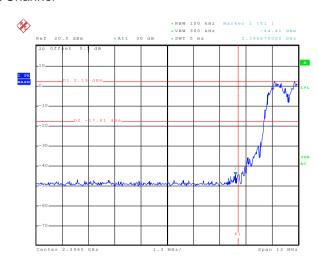
Hopping mode



8DPSK

Lowest Channel



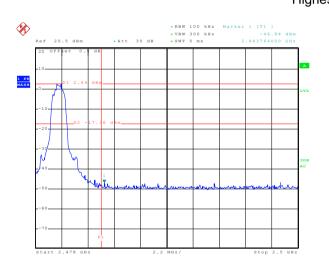


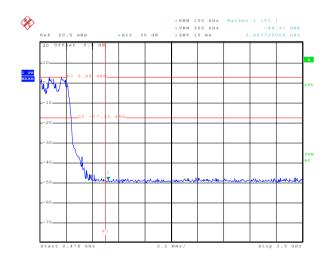
Date: 1.DEC.2015 16:32:41

No-hopping mode

Date: 1.DEC.2015 16:59:04 Hopping mode

Highest Channel





Date: 1.DEC.2015 16:35:07

No-hopping mode

Date: 1.DEC.2015 17:03:11

Hopping mode



6.9.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.20	9 and 15.205					
Test Method:	ANSI C63.10: 2	009						
Test Frequency Range:	2.3GHz to 2.5G	Hz						
Test site:	Measurement D	istance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
	Above 1GHz	Peak RMS	1MHz 1MHz	3MHz 3MHz	Peak Value Average Value			
Limit:	Freque		Limit (dBuV		Remark			
	Above 1		54.0 74.0	0	Average Value Peak Value			
Test setup:	1. The EUT was placed on the top of a rotating table 0.8 meters above the							
Test Procedure:	ground at a 3 determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to de horizontal an measurement 4. For each sus and then the and the rotal maximum results 5. The test-recesults Specified Ba 6. If the emission limit specified EUT would be 10dB margin.	B meter cambine position of the position of the position of the set of the position of the pos	er. The table was set to Pea Maximum Hole Was set to Pea Maximum Hole Was set to Pea Maximum Hole EUT in peak I could be stop therwise the ea	was rotated diation. The interferer of a variable of a variable of the field one antenna was arrangents from 1 regrees to 360 at Detect Full Mode. The mode was apped and the missions the one using processing processing and the mode using processing proc	and degrees to ance-receiving le-height antenna ar meters above the distrength. Both are set to make the ed to its worst case meter to 4 meters and degrees to find the function and and lodb lower than the elepeak values of the mat did not have beak, quasi-peak or			
Test Instruments:	Refer to section							
Test mode:	Non-hopping m	ode						
Test results:	Passed							

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.

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No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

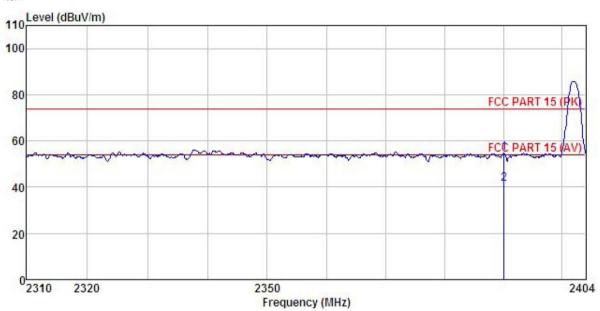




GFSK mode

Test channel: Lowest

Horizontal:



Site

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

EUT Tablet : N10 PLUS Model Test mode : DH1-L

Power Rating : AC 120V/60Hz

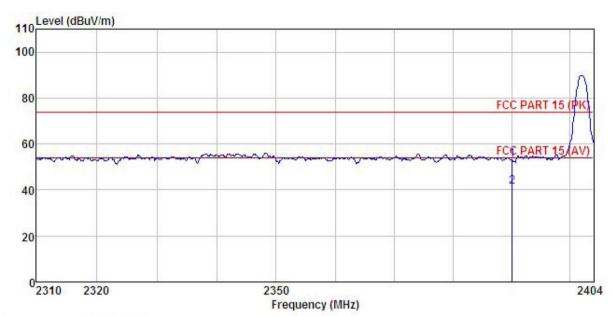
Environment : Temp: 25.5 C Huni: 55%

Test Engineer: steven Remark :

marr	27904	Antenna Factor			Remark
2		 -dB/m	 	 	
	2390.000 2390.000				







Site

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

EUT : Tablet : N10 PLUS Model Test mode : DH1-L

Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: steven

Remark

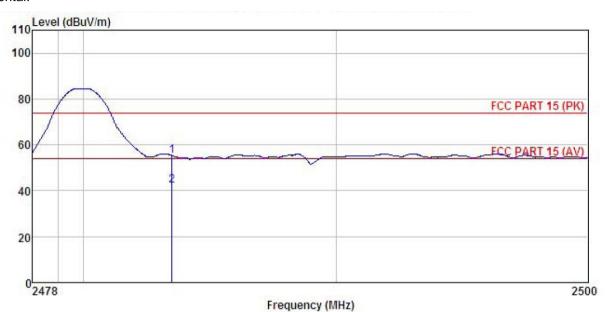
	Freq		Antenna Factor					
	MHz	—dBu∜	dB/m	 <u>d</u> B	$\overline{dB}\overline{uV/m}$	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000							





Test channel: Highest

Horizontal:



Site

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

EUT : Tablet Model : N10 PLUS
Test mode : DH1-H
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

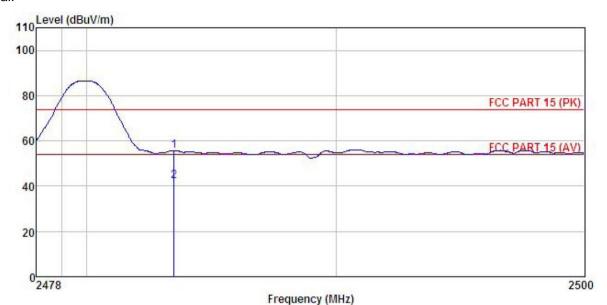
Test Engineer: steven Remark :

1 2

aL.	к :									
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
,	MHz	dBu∜	<u>dB</u> /m	d <u>B</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>		
	2483.500	20.94	27.52	6.85	0.00	55.31	74.00	-18.69	Peak	
8	2483.500	7.82	27.52	6.85	0.00	42.19	54.00	-11.81	Average	







Site

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

EUT : Tablet Model : N10 PLUS
Test mode : DH1-H
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: steven

Remark

1 2

		Antenna						
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	—dBu∇	— <u>d</u> B/m	<u>ab</u>	<u>ab</u>	$\overline{dB} \overline{uV/m}$	dBuV/m	<u>dB</u>	
2483.500 2483.500	The second second second second	10 Table 15 10 Calvara 11						O POST CONTROL OF THE PARTY OF

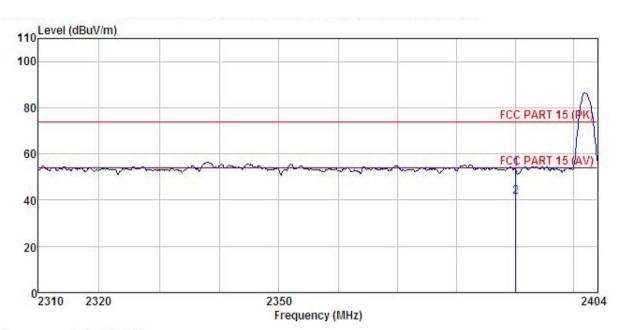




π/4-DQPSK mode

Test channel: Lowest

Horizontal:



Site

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

EUT : N10 PLUS Model : 2DH1-L Test mode

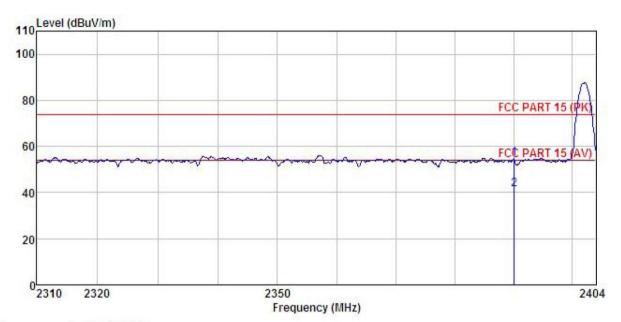
Power Rating: AC 120V/60Hz Environment: Temp:25.5°C Huni:55%

Test Engineer: steven Remark :

.cmarı			Antenna Factor						Remark
-	MHz	dBu∜	$-\overline{dB}/\overline{m}$	d <u>B</u>	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1 2	2390.000 2390.000					53.60 41.47			







Site

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

EUT Model : N10 PLUS
Test mode : 2DH1-L
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: steven

Remark

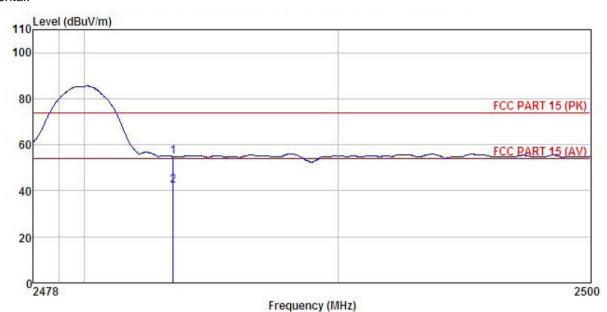
	200	Read. Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	
-	MHz	dBu∜	— <u>d</u> B/m	dB	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000				0.00 0.00				





Test channel: Highest

Horizontal:



Site

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

: Tablet EUT Model Test mode : 2DH1-H Power Rating : AC 120V/60Hz

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

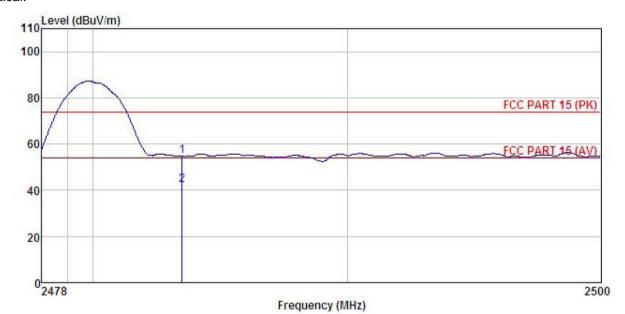
Rema

1 2

narl	κ :		•							
	Freq		Antenna Factor							
-	MHz	dBu∜			<u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>d</u> B		
	2483.500									
4	2483.500	7.85	21.52	6.85	0.00	42.22	54.00	-11.78	Average	







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

Model : N10 PLUS

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

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: steven Remark :

marr	•	Read.	Ant enna	Cable	Preamn		Limit	Over	
	Freq		Factor						Remark
_	MHz	dBu₹	<u>dB</u> /m	<u>d</u> B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	2483.500	20.39	27.52	6.85	0.00	54.76	74.00	-19.24	Peak
2	2483.500	7.81	27.52	6.85	0.00	42.18	54.00	-11.82	Average

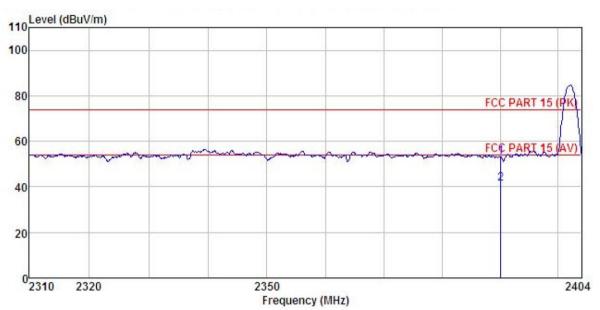




8DPSK mode

Test channel: Lowest

Horizontal:



Site

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

EUT Tablet Model : N10 PLUS Test mode : 3DH1-L

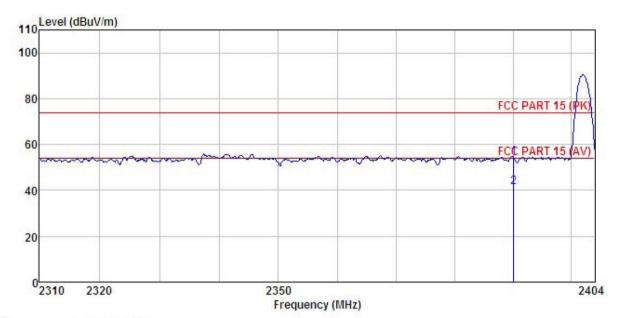
Power Rating: AC 120V/60Hz Environment: Temp:25.5°C Huni:55%

Test Engineer: steven

Kemarl	x :	Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBu₹	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	2390.000	19.09	27.58	6.63	0.00	53.30	74.00	-20.70	Peak
2	2390.000	7.35	27.58	6.63	0.00	41.56	54.00	-12.44	Average







Site

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

: Tablet : N10 PLUS EUT Model Test mode : 3DH1-L Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55% Test Engineer: steven

Remark

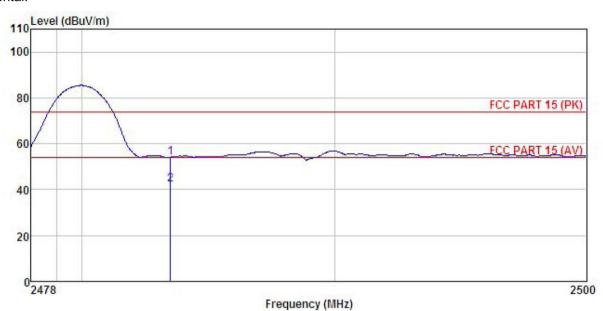
	Freq		Antenna Factor					Remark	
-	MHz	dBu₹	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	dBuV/m	 	_
1 2	2390.000 2390.000				0.00 0.00			Control of the Contro	





Test channel: Highest

Horizontal:



Site

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

EUT : N10 PLUS Model Test mode : 3DH1-H Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

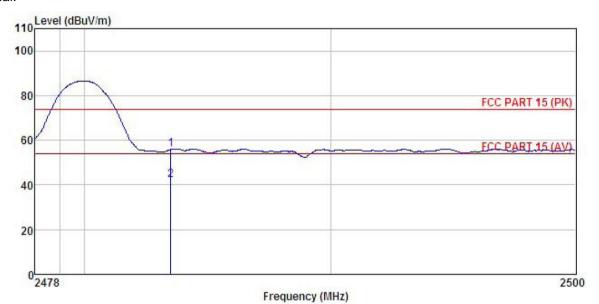
Test Engineer: steven

Remark

			Antenna Factor						
-	MHz	dBu₹	$\overline{dB}/\overline{m}$	<u>d</u> B	<u>d</u> B	$\overline{dB} \overline{uV/m}$	dBuV/m	āB	
1 2	2483.500 2483.500				0.00 0.00				







Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Tablet
Model : N10 PLUS
Test mode : 3DH1-H
Power Rating : AC 120V/60Hz
Environment : Temp: 25.5°C Huni: 55%
Test Fraineer: steven

Test Engineer: steven

Remark

				Preamp Factor				
-	MHz	—dBu∇	— <u>dB</u> /m	 <u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
	2483.500 2483.500							



6.10 Spurious Emission

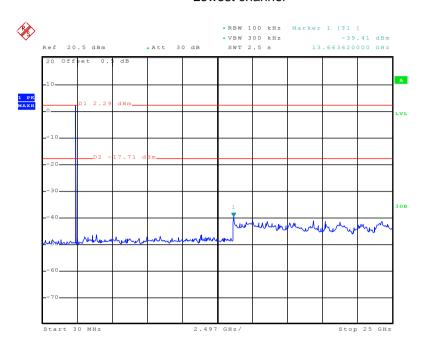
6.10.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)							
Test Method:	ANSI C63.10:2009 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							



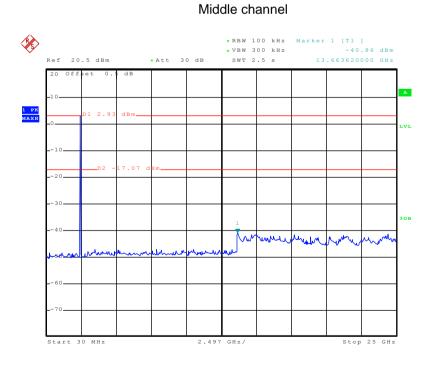
GFSK

Lowest channel



Date: 27.NOV.2015 16:20:09

30MHz~25GHz

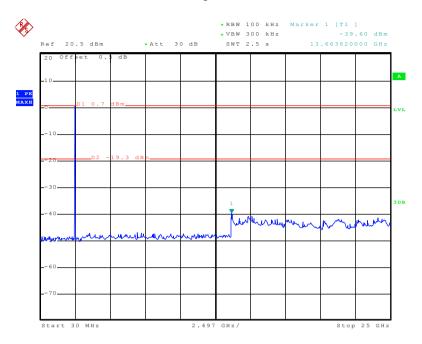


Date: 27.NOV.2015 16:21:48

30MHz~25GHz



Highest channel



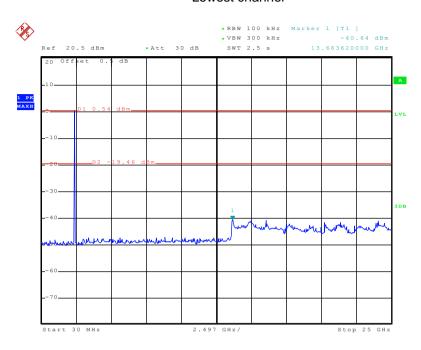
Date: 27.NOV.2015 16:24:29

30MHz~25GHz



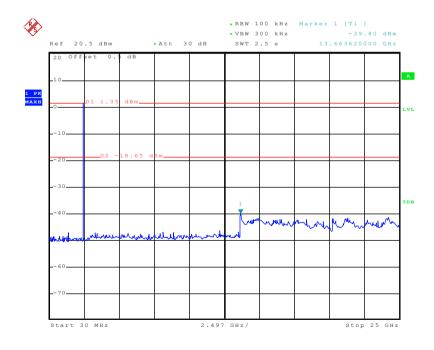
π/4-DQPSK

Lowest channel



Date: 27.NOV.2015 16:25:56

30MHz~25GHz Middle channel

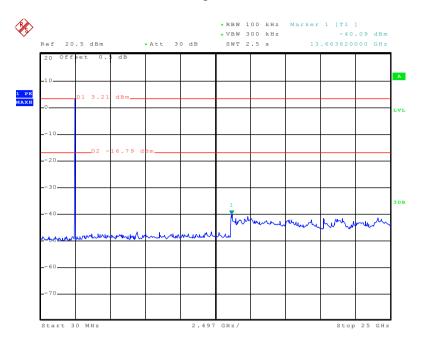


Date: 27.NOV.2015 16:28:06

30MHz~25GHz



Highest channel



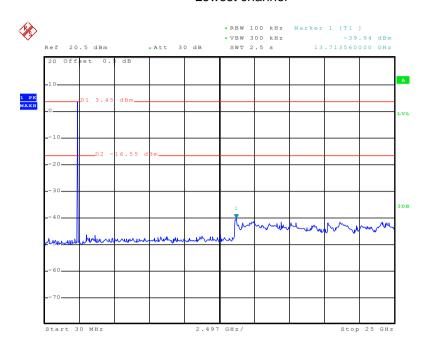
Date: 27.NOV.2015 16:31:10

30MHz~25GHz



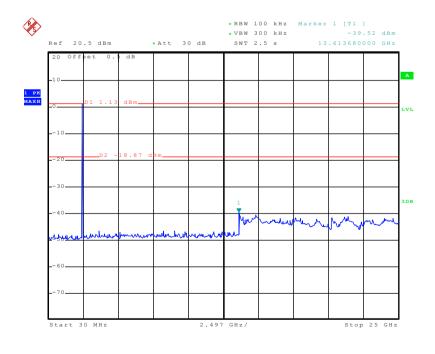
8DPSK

Lowest channel



Date: 27.NOV.2015 16:33:07

30MHz~25GHz Middle channel

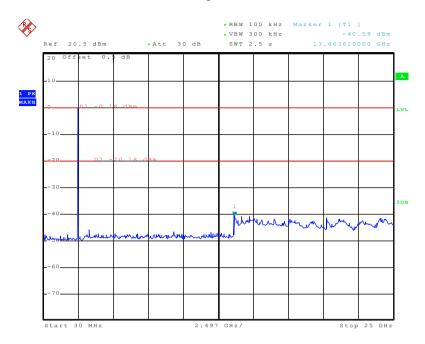


Date: 27.NOV.2015 16:35:02

30MHz~25GHz



Highest channel



Date: 27.NOV.2015 16:36:46

30MHz~25GHz





6.10.2 Radiated Emission Method

	10.2 Radiated Emission Method									
Test Requirement:	FCC Part 15 C Section 15.209									
Test Method:	ANSI C63.10: 200	09								
Test Frequency Range:	9 kHz to 25 GHz									
Test site:	Measurement Distance: 3m									
Receiver setup:	Frequency	Detector	RBW	VBW	Remark					
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value					
	Above 1GHz	Peak	1MHz	3MHz	Peak Value					
	Above 10112	RMS	1MHz	3MHz	Average Value					
Limit:	Frequen	су	Limit (dBuV	/m @3m)	Remark					
	30MHz-88I	MHz	40.0)	Quasi-peak Value					
	88MHz-216	6MHz	43.5	5	Quasi-peak Value					
	216MHz-960	OMHz	46.0)	Quasi-peak Value					
	960MHz-1	GHz	54.0)	Quasi-peak Value					
	Above 1G	Hz	54.0)	Average Value					
	Above re	71 12	74.0)	Peak Value					
Above 1(iHz										





Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
	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 Uncertainty:	±4.88 dB
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.

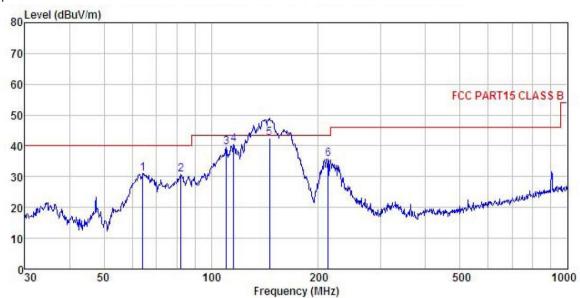




Measurement data:

Below 1GHz

Vertical:



Site

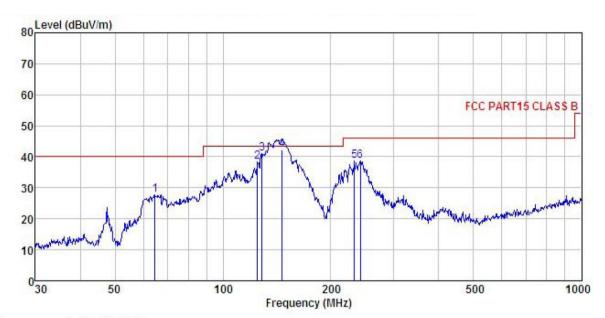
: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition

EUT : Tablet : MIUPLUS
Test mode : BT mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: STEVEN
REMARK :

CHICKLY									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
_	MHz	dBu∜	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1	64.208	49.10	10.97	0.74	29.76	31.05	40.00	-8.95	QP
2	82.359	49.97	9.43	0.86	29.62	30.64	40.00	-9.36	QP
2	110.182	55.70	12.25	1.05	29.46	39.54	43.50	-3.96	QP
4	115.726	57.43	11.21	1.09	29.42	40.31	43.50	-3.19	QP
5	145.861	62.10	8.23	1.30	29.24	42.39	43.50	-1.11	QP
6	213.015	52.11	10.97	1.45	28.75	35.78	43.50	-7.72	QP



Horizontal:



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

EUT Model : N1OPLUS : BT mode Test mode Power Rating: AC120V/60Hz
Environment: Temp:25.5°C Huni:55%
Test Engineer: STEVEN
REMARK:

	Freq		Antenna Factor						Remark
_	MHz	dBu₹	dB/m	₫B	<u>d</u> B	dBu√/m	dBuV/m	dB	
1	64.659	46.01	10.84	0.75	29.76	27.84	40.00	-12.16	QP
2	125.007	56.78	9.70	1.16	29.36	38.28	43.50	-5.22	QP
3	128.563	60.12	9.12	1.18	29.34	41.08	43.50	-2.42	QP
4	146.374	61.90	8.23	1.30	29.24	42.19	43.50	-1.31	QP
5	232.532	53.91	11.72	1.54	28.64	38.53	46.00	-7.47	QP
6	241.676	53.57	12.09	1.58	28.59	38.65	46.00	-7.35	QP



Above 1GHz:

Te	st channel		Lowest		Le	vel:	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	
4804.00	45.76	31.53	10.57	40.24	47.62	74.00	-26.38	Vertical	
4804.00	45.65	31.53	10.57	40.24	47.51	74.00	-26.49	Horizontal	
Te	st channel		Low	vest	Le	vel:	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	36.89	31.53	10.57	40.24	38.75	54.00	-15.25	Vertical	
4804.00	36.47	31.53	10.57	40.24	38.33	54.00	-15.67	Horizontal	

Te	st channel:		Middle		Lev	vel:	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	45.26	31.58	10.66	40.15	47.35	74.00	-26.65	Vertical
4882.00	46.51	31.58	10.66	40.15	48.60	74.00	-25.40	Horizontal
Te	st channel:		Middle		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	36.57	31.58	10.66	40.15	38.66	54.00	-15.34	Vertical
4882.00	37.46	31.58	10.66	40.15	39.55	54.00	-14.45	Horizontal

Te	st channel:		Highest		Le	vel:	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	45.69	31.69	10.73	40.03	48.08	74.00	-25.92	Vertical
4960.00	45.43	31.69	10.73	40.03	47.82	74.00	-26.18	Horizontal
Te	st channel:	•	Highest		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
4960.00	36.88	31.69	10.73	40.03	39.27	54.00	-14.73	Vertical
4960.00	37.29	31.69	10.73	40.03	39.68	54.00	-14.32	Horizontal

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.