

# FCC REPORT

**Applicant:** MOX GROUP LIMITED

**Address of Applicant:** RM2508-2509, T-Share international building A, taoyuan Road  
Nan shan, Shenzhen, China

## Equipment Under Test (EUT)

**Product Name:** MOBILE PHONE

**Model No.:** A35

**Trade mark:** MOX

**FCC ID:** 2ABBS-A35

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

**Date of sample receipt:** 11 Mar., 2015

**Date of Test:** 11 Mar., 2015 to 31 Mar., 2015

**Date of report issued:** 31 Mar., 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	31 Mar., 2015	Original

**Prepared by:**Luna Gao**Date:**

31 Mar., 2015

**Report Clerk****Reviewed by:**Wimer Wang**Date:**

31 Mar., 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:	MOX GROUP LIMITED
Address of Applicant:	RM2508-2509, T-Share international building A, taoyuan Road Nan shan, Shenzhen, China
Manufacturer:	MOX GROUP LIMITED
Address of Manufacturer:	RM2508-2509, T-Share international building A, taoyuan Road Nan shan, Shenzhen, China

### 5.2 General Description of E.U.T.

Product Name:	MOBILE PHONE
Model No.:	A35
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:	3.0 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1450mAh
AC adapter:	Model: A35 Input:100-240V AC,50/60Hz 0.15A Output:5V DC MAX 0.75A

<b>Operation Frequency each of channel for GFSK, <math>\pi/4</math>-DQPSK, 8DPSK</b>							
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		

Remark: Channel 0, 39 &78 selected for GFSK,  $\pi/4$ -DQPSK and 8DPSK.

### 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 on the table 0.8 meters for below 1GHz, 1.5 meters for above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working 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

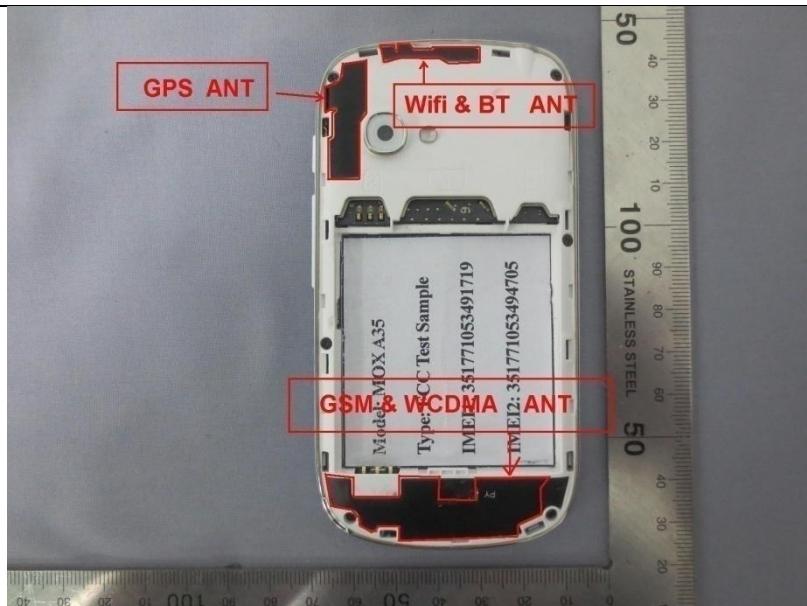
<b>Radiated Emission:</b>						
<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal. Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	04-19-2014	04-19-2015
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	04-19-2014	04-19-2015
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016
6	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	06-09-2014	06-05-2015
7	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2014	03-31-2015
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	03-30-2015	03-29-2016
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	04-19-2014	04-19-2015
12	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	04-01-2015	03-31-2016
13	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016
14	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	05-29-2014	05-28-2015
15	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-19-2014	04-19-2015

<b>Conducted Emission:</b>						
<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal. Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	11-10-2012	11-09-2015
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	04-10-2014	04-09-2015
3	LISN	CHASE	MN2050D	CCIS0074	04-10-2014	04-10-2015
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

<b>Standard requirement:</b>	FCC Part 15 C Section 15.203 /247(c)
15.203 requirement: <i>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.</i>	
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.	
<b>E.U.T Antenna:</b>	The Bluetooth antenna is an integral antenna which permanently attached, and the best case gain of the antenna is 3.0 dBi.



## 6.2 Conducted Emissions

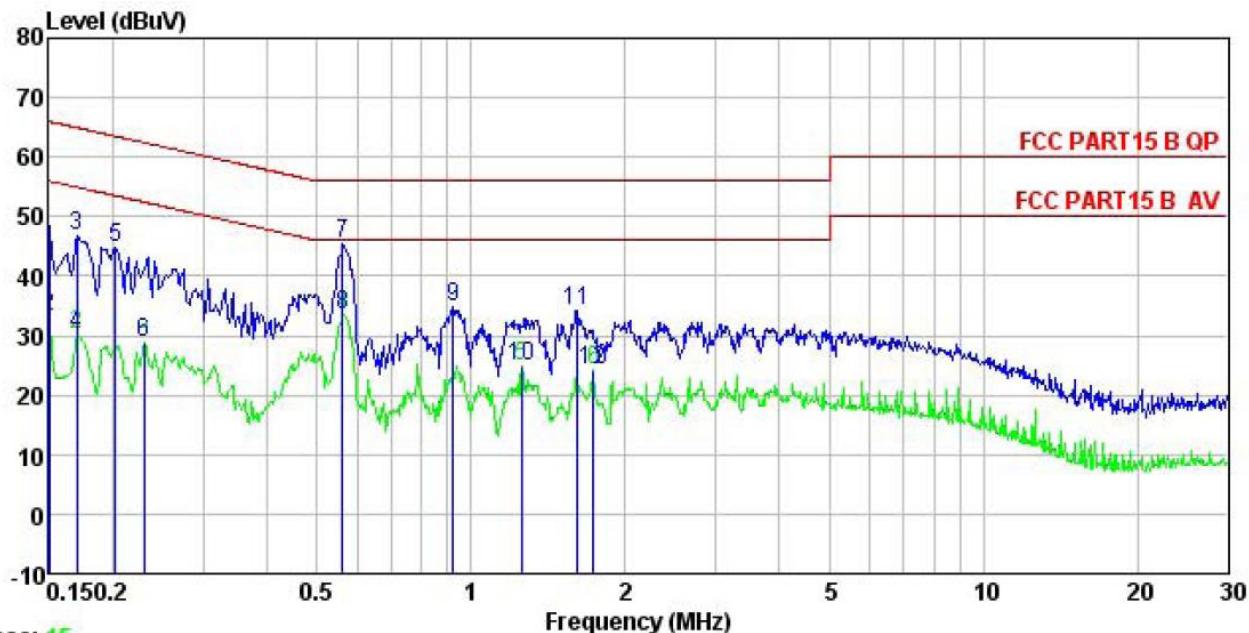
Test Requirement:	FCC Part 15 C Section 15.207		
Test Method:	ANSI C63.4:2009		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50

\* Decreases with the logarithm of the frequency.

Test setup:	<p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>
Test procedure:	<ol style="list-style-type: none"> <li>1. 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.</li> <li>2. 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).</li> <li>3. 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.</li> </ol>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Bluetooth (Continuous transmitting) mode
Test results:	Pass

## Measurement Data

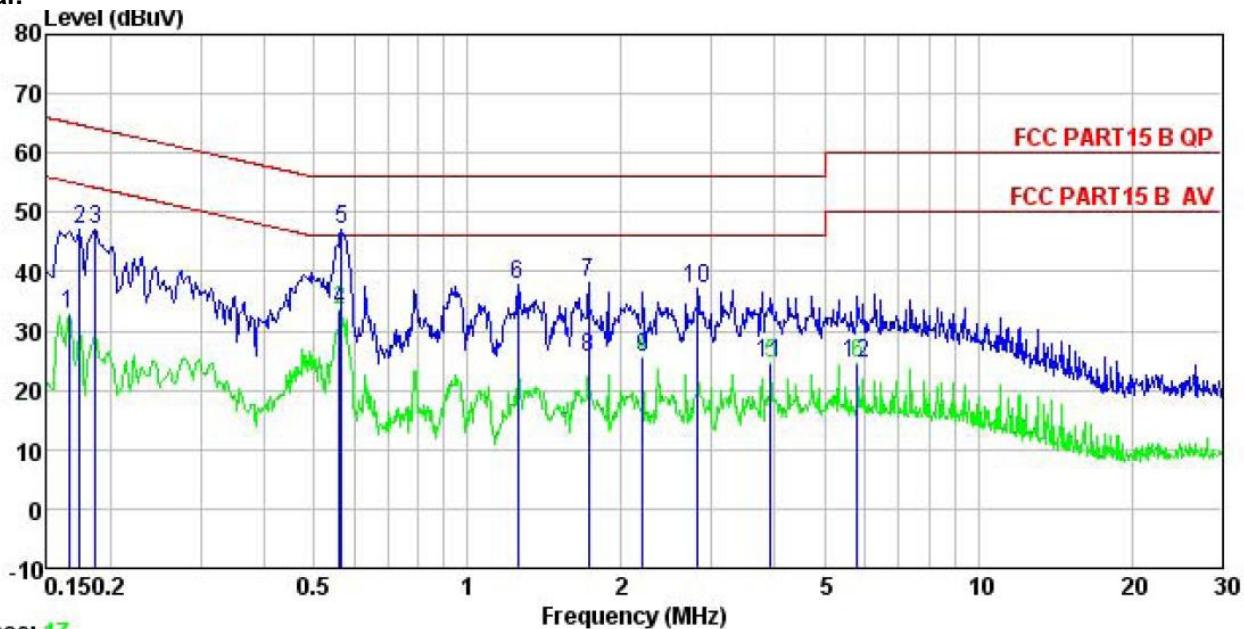
Line:



Trace: 15

Site : CCIS Shielding Room  
 Condition : FCC PART15 B QP LISN LINE  
 Pro : 120RF  
 EUT : Mobile Phone  
 Model : A35  
 Test Mode : BT mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp: 23 °C Huni:56% Atmos:101KPa  
 Test Engineer: MT  
 Remark :

Freq	Read	LISN	Cable	Limit Line	Over Limit	Remark
	Level	Factor	Loss			
MHz	dBuV		dB	dBuV	dBuV	dB
1	37.33	0.27	10.78	48.38	66.00	-17.62 QP
2	22.04	0.27	10.78	33.09	56.00	-22.91 Average
3	35.65	0.27	10.77	46.69	64.94	-18.25 QP
4	19.18	0.27	10.77	30.22	54.94	-24.72 Average
5	33.65	0.28	10.76	44.69	63.54	-18.85 QP
6	17.98	0.27	10.75	29.00	52.44	-23.44 Average
7	34.45	0.27	10.77	45.49	56.00	-10.51 QP
8	22.61	0.27	10.77	33.65	46.00	-12.35 Average
9	23.77	0.24	10.85	34.86	56.00	-21.14 QP
10	13.73	0.25	10.90	24.88	46.00	-21.12 Average
11	22.86	0.26	10.93	34.05	56.00	-21.95 QP
12	12.94	0.26	10.94	24.14	46.00	-21.86 Average

**Neutral:**

Site : CCIS Shielding Room  
 Condition : FCC PART15 B QP LISN NEUTRAL  
 Pro : 120RF  
 EUT : Mobile Phone  
 Model : A35  
 Test Mode : BT mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp: 23 °C Huni:56% Atmos:101KPa  
 Test Engineer: MT  
 Remark :

Freq	Read	LISN	Cable	Limit	Over	Remark
	Level	Factor	Loss	Level	Line	
MHz	dBuV	dB	dB	dBuV	dBuV	dB
1	0.166	21.89	0.25	10.77	32.91	55.16 -22.25 Average
2	0.174	36.00	0.25	10.77	47.02	64.77 -17.75 QP
3	0.186	36.26	0.25	10.76	47.27	64.20 -16.93 QP
4	0.561	22.52	0.25	10.77	33.54	46.00 -12.46 Average
5	0.567	36.23	0.25	10.77	47.25	56.00 -8.75 QP
6	1.255	26.76	0.24	10.90	37.90	56.00 -18.10 QP
7	1.725	26.80	0.28	10.94	38.02	56.00 -17.98 QP
8	1.725	14.19	0.28	10.94	25.41	46.00 -20.59 Average
9	2.201	14.32	0.29	10.95	25.56	46.00 -20.44 Average
10	2.824	25.80	0.29	10.93	37.02	56.00 -18.98 QP
11	3.922	13.46	0.29	10.89	24.64	46.00 -21.36 Average
12	5.805	13.57	0.27	10.83	24.67	50.00 -25.33 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

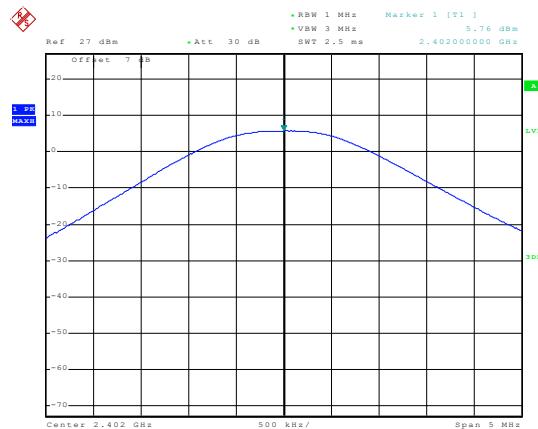
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2009 and DA00-705
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤ 1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)
Limit:	125 mW(21 dBm)
Test setup:	 <p>The diagram illustrates the test setup for conducted output power. A Spectrum Analyzer is connected to the Equipment Under Test (E.U.T) via a cable. The E.U.T is placed on a Non-Conducted Table. The entire assembly sits on a Ground Reference Plane.</p>
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	5.76	21.00	Pass
Middle	6.18	21.00	Pass
Highest	6.25	21.00	Pass
$\pi/4$ -DQPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	5.15	21.00	Pass
Middle	5.51	21.00	Pass
Highest	5.73	21.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	5.21	21.00	Pass
Middle	5.61	21.00	Pass
Highest	5.76	21.00	Pass

Test plot as follows:

Modulation mode: GFSK



Date: 12.MAR.2015 11:29:59

Lowest channel



Date: 12.MAR.2015 11:30:39

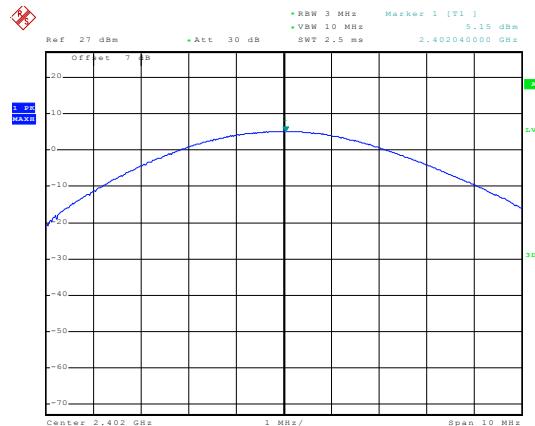
Middle channel



Date: 12.MAR.2015 11:31:05

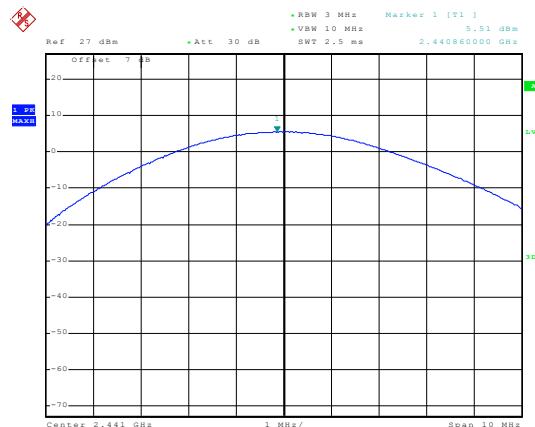
Highest channel

Modulation mode:  $\pi/4$ -DQPSK



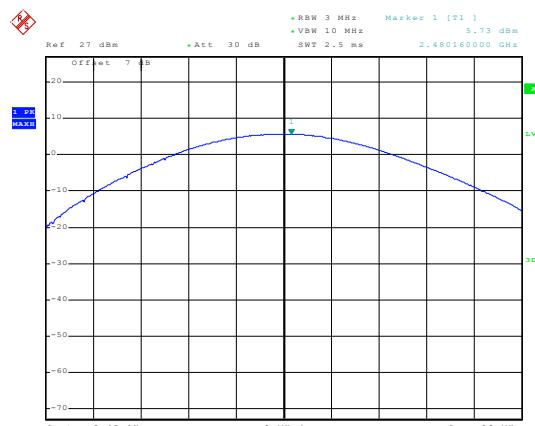
Date: 12.MAR.2015 11:32:47

### Lowest channel



Date: 12.MAR.2015 11:32:24

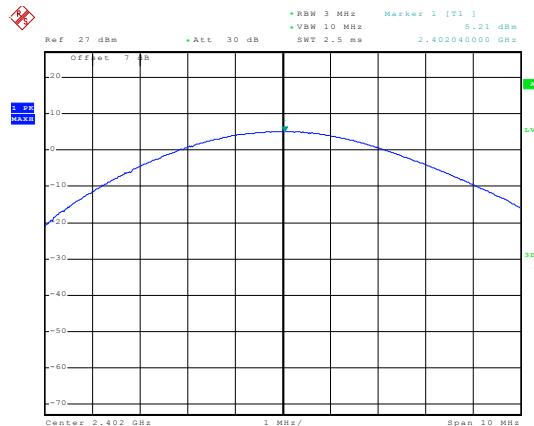
### Middle channel



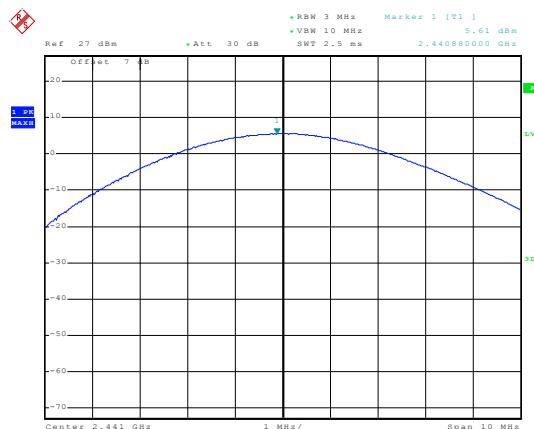
Date: 12.MAR.2015 11:31:55

### Highest channel

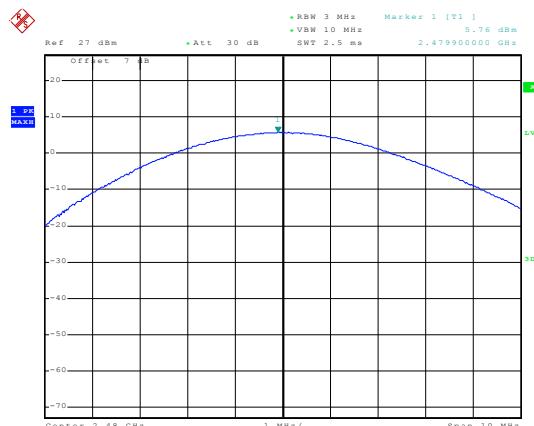
### Modulation mode: 8DPSK



Date: 12.MAR.2015 11:33:18  
Lowest channel



Date: 12.MAR.2015 11:33:46  
Middle channel



Date: 12.MAR.2015 11:34:07  
Highest channel

#### 6.4 20dB Occupy Bandwidth

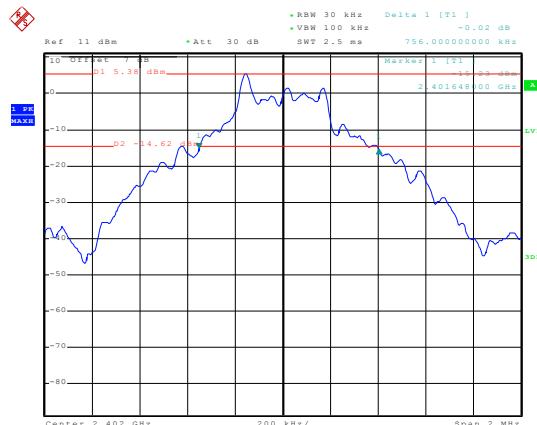
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2009 and DA00-705
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak
Limit:	NA
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is positioned at the top left, displaying a green waveform on its screen. A red line extends from the analyzer's output port to a grey rectangular box labeled "E.U.T". This "E.U.T" box is centered on a light blue rectangular platform labeled "Non-Conducted Table". Below the table is a thick grey horizontal bar labeled "Ground Reference Plane".</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

#### Measurement Data

Test channel	20dB Occupy Bandwidth (kHz)		
	GFSK	$\pi/4$ -DQPSK	8DPSK
Lowest	756	1120	1172
Middle	832	1120	1172
Highest	756	1124	1172

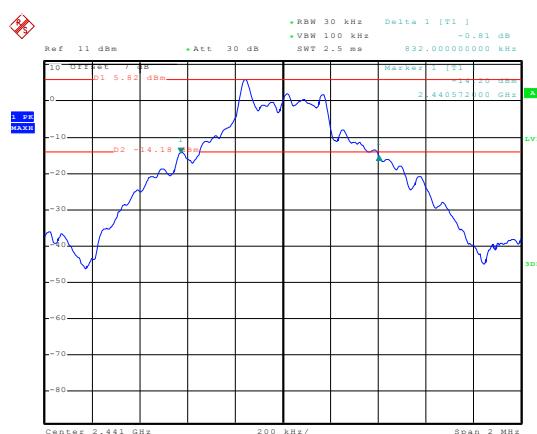
Test plot as follows:

Modulation mode: GFSK



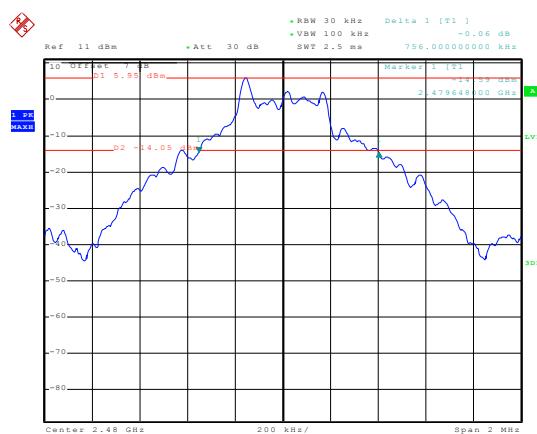
Date: 12.MAR.2015 11:51:34

Lowest channel



Date: 12.MAR.2015 11:49:19

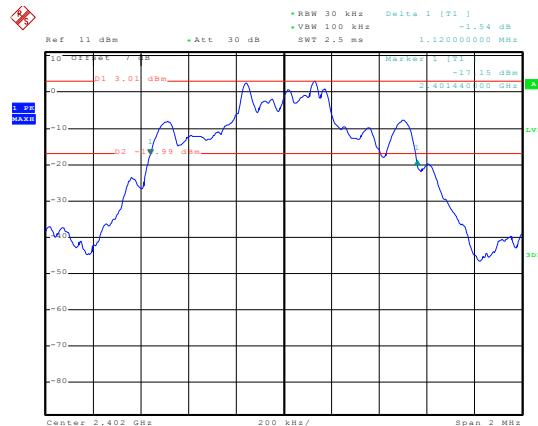
Middle channel



Date: 12.MAR.2015 11:47:41

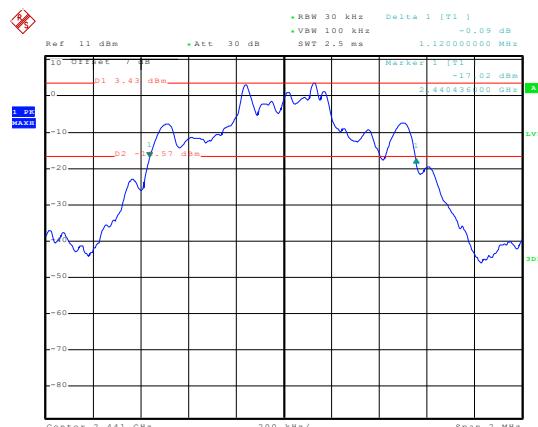
Highest channel

Modulation mode:  $\pi/4$ -DQPSK



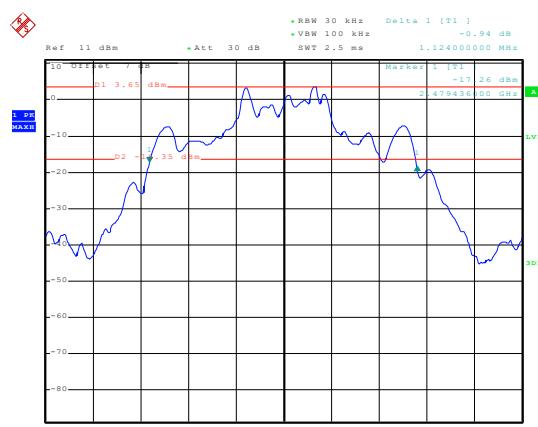
Date: 12.MAR.2015 11:42:26

Lowest channel



Date: 12.MAR.2015 11:43:56

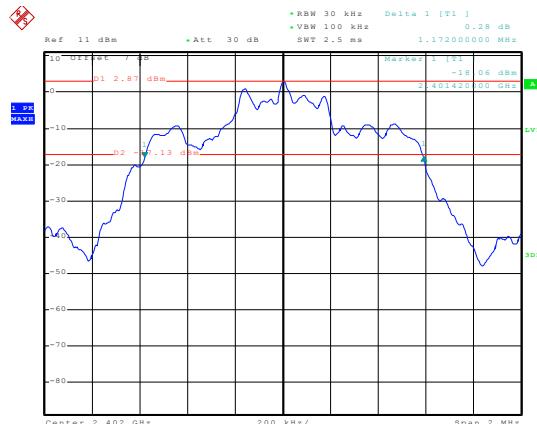
Middle channel



Date: 12.MAR.2015 11:46:19

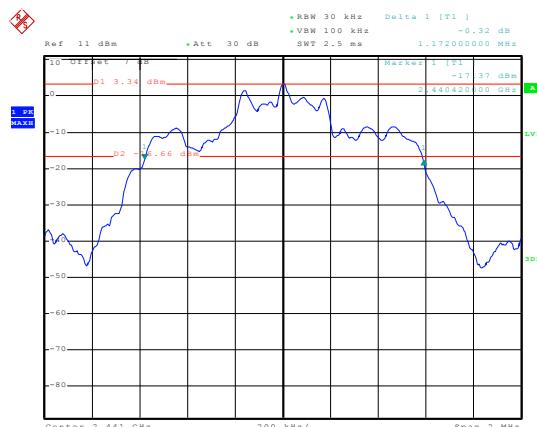
Highest channel

### Modulation mode: 8DPSK



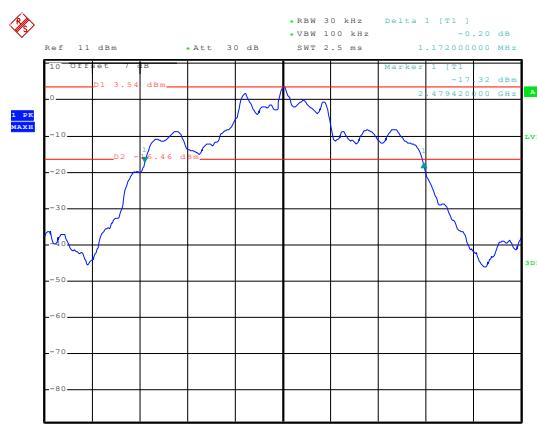
Date: 12.MAR.2015 11:41:12

### Lowest channel



Date: 12.MAR.2015 11:39:34

### Middle channel



Date: 12.MAR.2015 11:37:23

### Highest channel

## 6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2009 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:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Hopping mode
Test results:	Pass

## Measurement Data

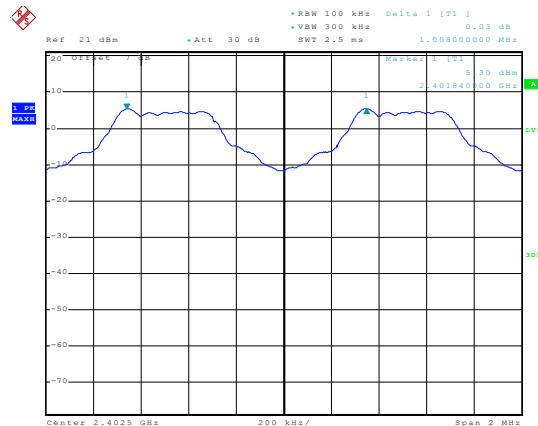
GFSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1008	554.67	Pass
Middle	1004	554.67	Pass
Highest	1004	554.67	Pass
$\pi/4$ -DQPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1004	749.33	Pass
Middle	1004	749.33	Pass
Highest	1004	749.33	Pass
8DPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1000	781.33	Pass
Middle	1000	781.33	Pass
Highest	1000	781.33	Pass

Note: According to section 6.4

Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	832	554.67
$\pi/4$ -DQPSK	1124	749.33
8DPSK	1172	781.33

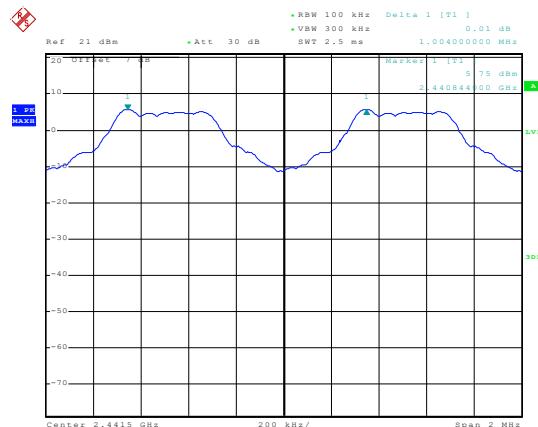
Test plot as follows:

Modulation mode: GFSK



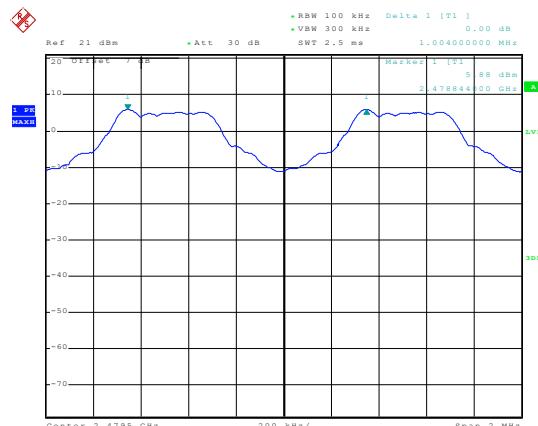
Date: 12.MAR.2015 13:57:20

Lowest channel



Date: 12.MAR.2015 13:58:56

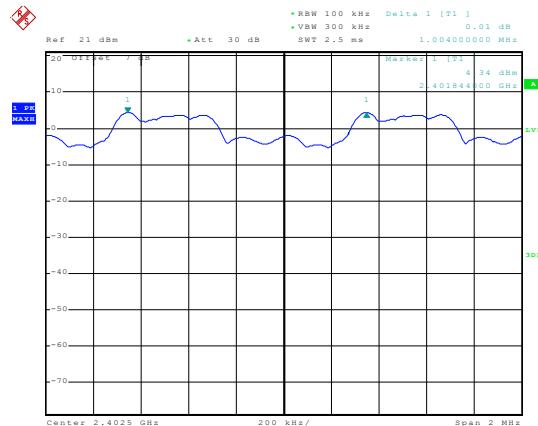
Middle channel



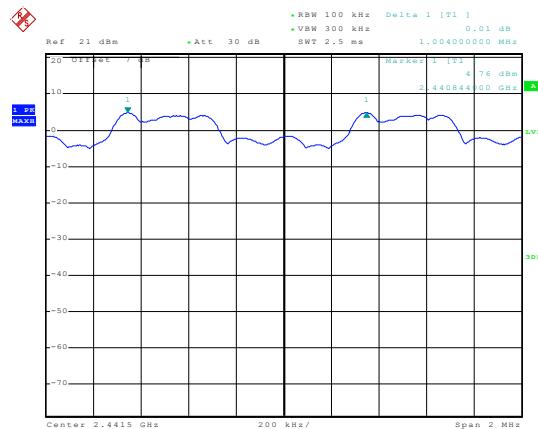
Date: 12.MAR.2015 14:08:41

Highest channel

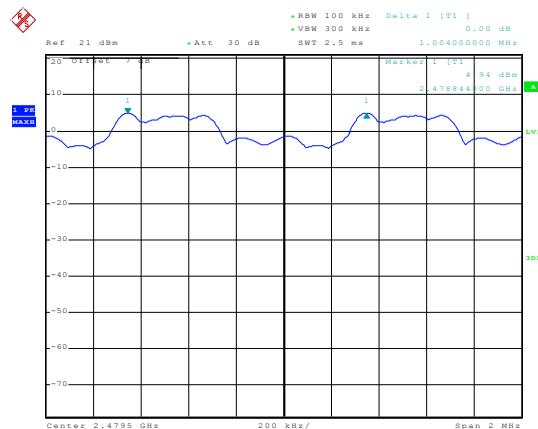
Modulation mode:  $\pi/4$ -DQPSK



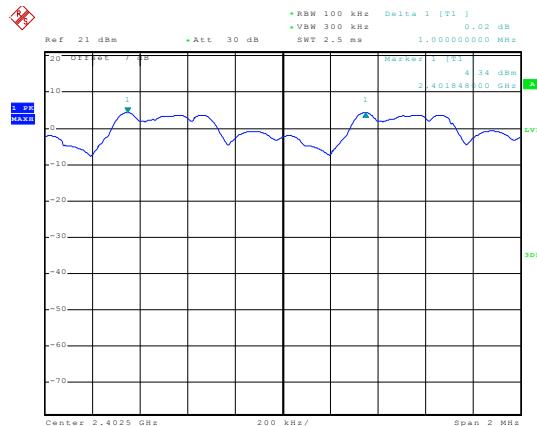
Date: 12.MAR.2015 14:06:49  
Lowest channel



Date: 12.MAR.2015 14:04:39  
Middle channel

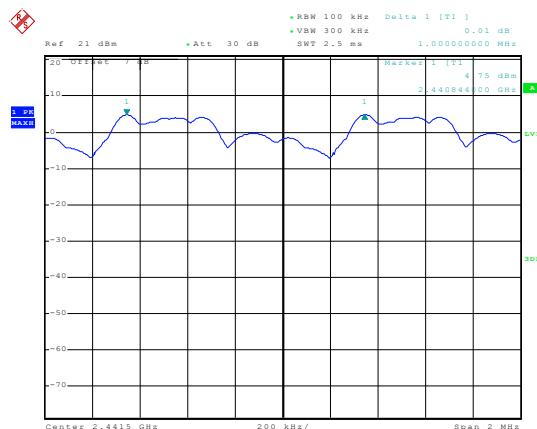


### Modulation mode: 8DPSK



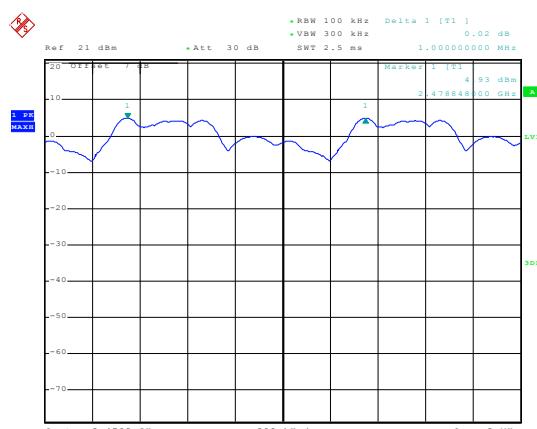
Date: 12.MAR.2015 14:14:06

### Lowest channel



Date: 12.MAR.2015 14:12:43

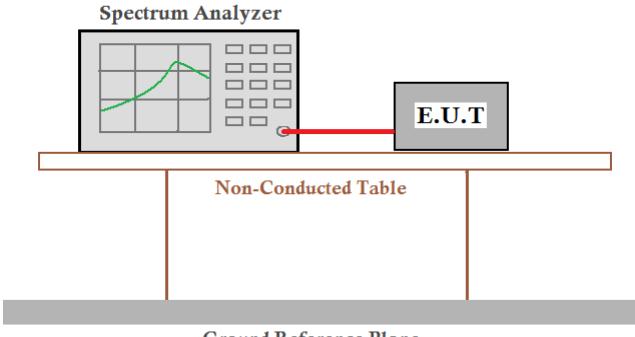
### Middle channel



Date: 12.MAR.2015 14:11:16

### Highest channel

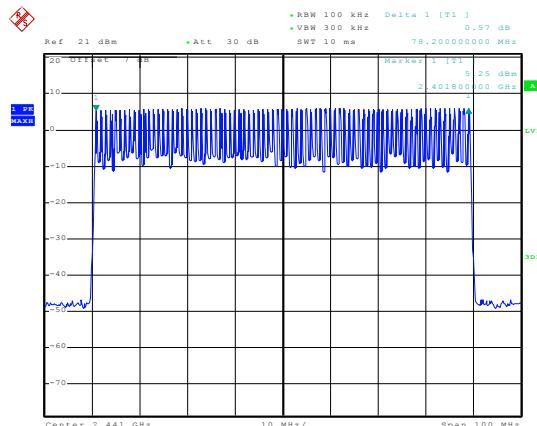
## 6.6 Hopping Channel Number

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2009 and DA00-705
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a cable to the E.U.T (Equipment Under Test). The E.U.T is placed on a Non-Conducted Table, which sits above a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Hopping mode
Test results:	Pass

### Measurement Data:

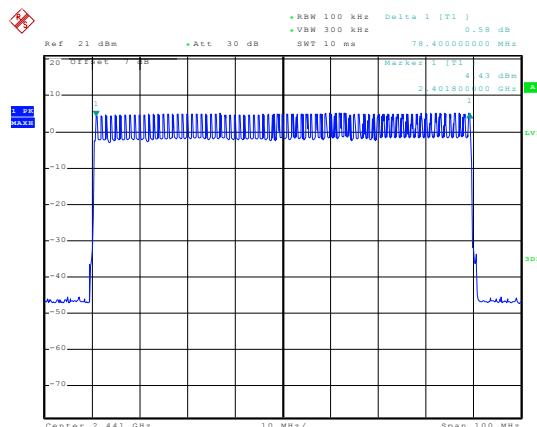
Mode	Hopping channel numbers	Limit	Result
GFSK, π/4-DQPSK, 8DPSK	79	15	Pass

## GFSK



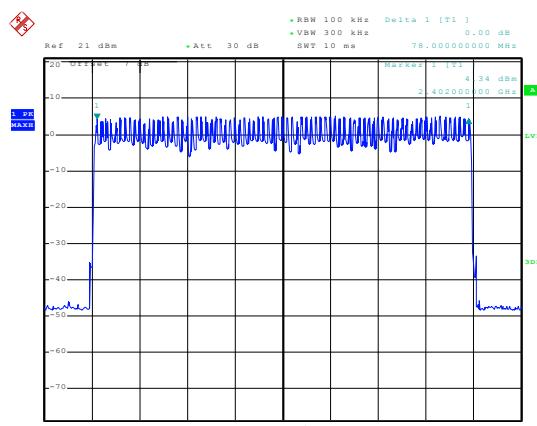
Date: 12.MAR.2015 11:57:52

## $\pi/4$ -DQPSK



Date: 12.MAR.2015 13:36:15

## 8DPSK



Date: 12.MAR.2015 13:42:46

## 6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2009 and KDB DA00-705
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a coaxial cable. The E.U.T is placed on a Non-Conducted Table. The entire assembly sits on a Ground Reference Plane.</p>
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
GFSK	DH1	0.12672	0.4	Pass
	DH3	0.27264		
	DH5	0.31232		
$\pi/4$ -DQPSK	2-DH1	0.12800	0.4	Pass
	2-DH3	0.26688		
	2-DH5	0.31317		
8DPSK	3-DH1	0.12736	0.4	Pass
	3-DH3	0.26784		
	3-DH5	0.31488		

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

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

$$\text{DH1 time slot} = 0.396 * (1600 / (2 * 79)) * 31.6 = 126.72\text{ms}$$

$$\text{DH3 time slot} = 1.704 * (1600 / (4 * 79)) * 31.6 = 272.64\text{ms}$$

$$\text{DH5 time slot} = 2.928 * (1600 / (6 * 79)) * 31.6 = 312.32\text{ms}$$

$$2-\text{DH1 time slot} = 0.400 * (1600 / (2 * 79)) * 31.6 = 128.00\text{ms}$$

$$2-\text{DH3 time slot} = 1.668 * (1600 / (4 * 79)) * 31.6 = 266.88\text{ms}$$

$$2-\text{DH5 time slot} = 2.936 * (1600 / (6 * 79)) * 31.6 = 313.17\text{ms}$$

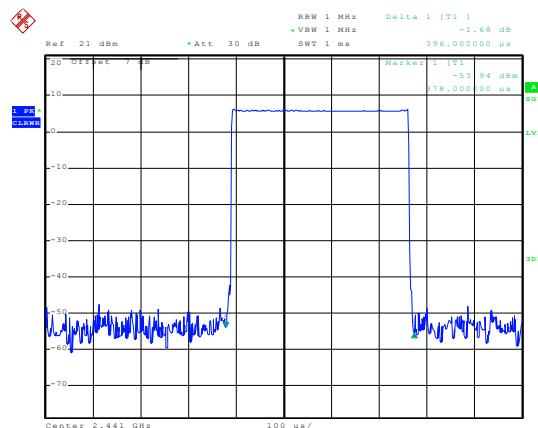
$$3-\text{DH1 time slot} = 0.398 * (1600 / (2 * 79)) * 31.6 = 127.36\text{ms}$$

$$3-\text{DH3 time slot} = 1.674 * (1600 / (4 * 79)) * 31.6 = 267.84\text{ms}$$

$$3-\text{DH5 time slot} = 2.952 * (1600 / (6 * 79)) * 31.6 = 314.88\text{ms}$$

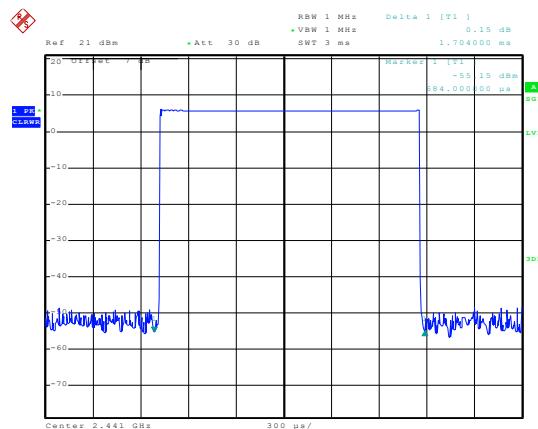
Test plot as follows:

Modulation mode: GFSK



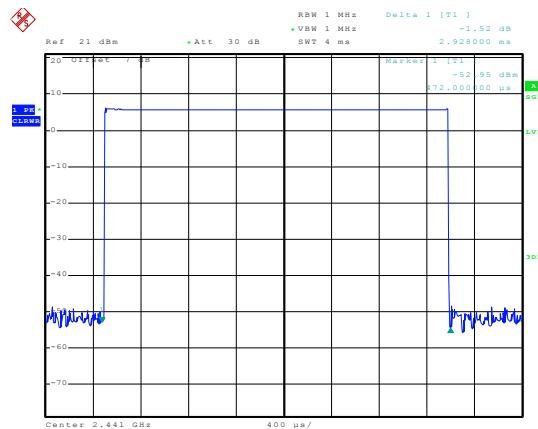
Date: 12.MAR.2015 13:44:46

DH1



Date: 12.MAR.2015 13:46:09

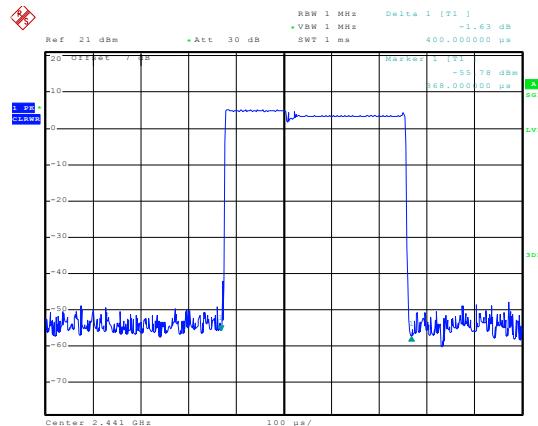
DH3



Date: 12.MAR.2015 13:47:29

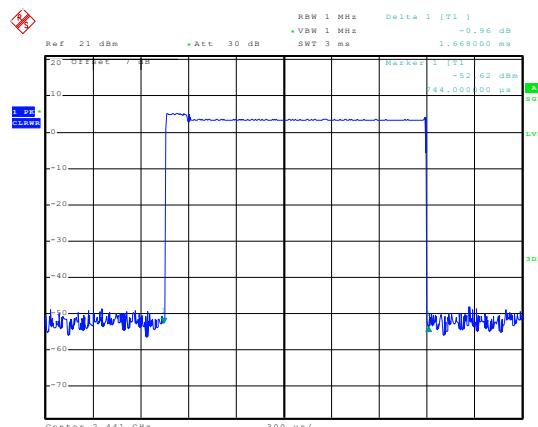
DH5

Modulation mode:  $\pi/4$ -DQPSK



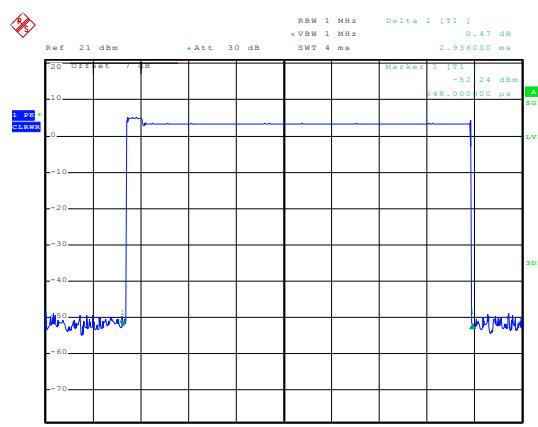
Date: 12.MAR.2015 13:48:41

2-DH1



Date: 12.MAR.2015 13:49:37

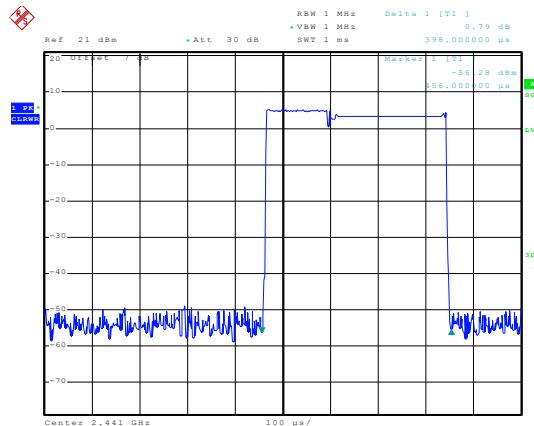
2-DH3



Date: 12.MAR.2015 13:51:20

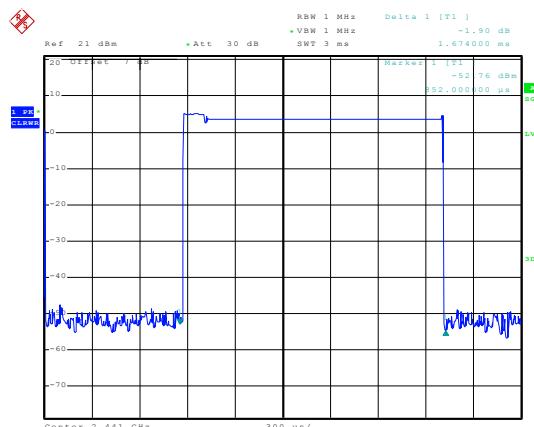
2-DH5

Modulation mode: 8DPSK



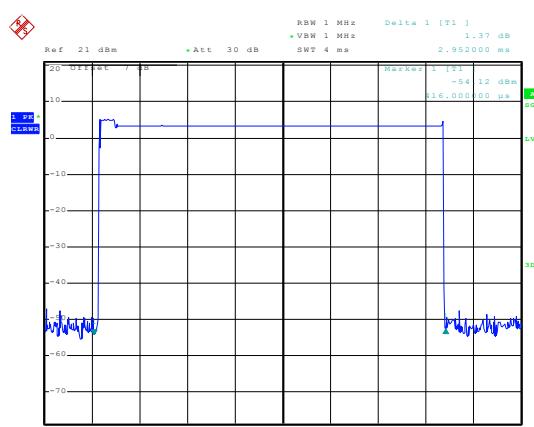
Date: 12.MAR.2015 13:52:20

3-DH1



Date: 12.MAR.2015 13:53:12

3-DH3



Date: 12.MAR.2015 13:54:06

3-DH5

## 6.8 Pseudorandom Frequency Hopping Sequence

**Test Requirement:**
**FCC Part 15 C Section 15.247 (a)(1) requirement:**

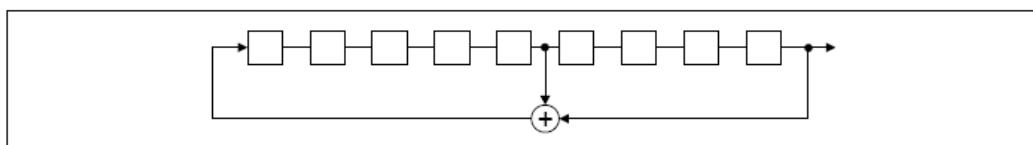
*Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.*

*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**

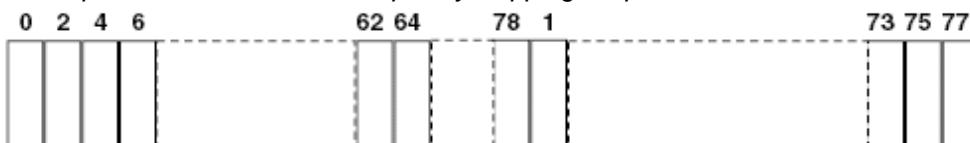
*The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

- Number of shift register stages: 9
- Length of pseudo-random sequence:  $2^9 - 1 = 511$  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:*

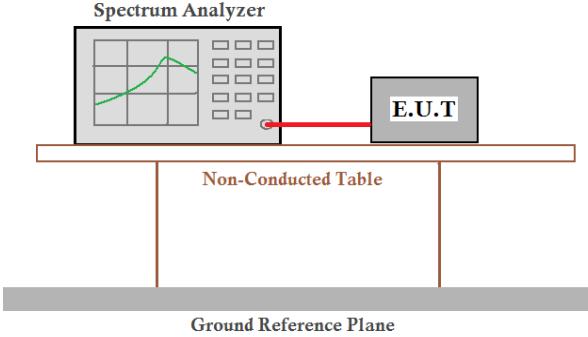


*Each frequency used equally on the average by each transmitter.*

*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

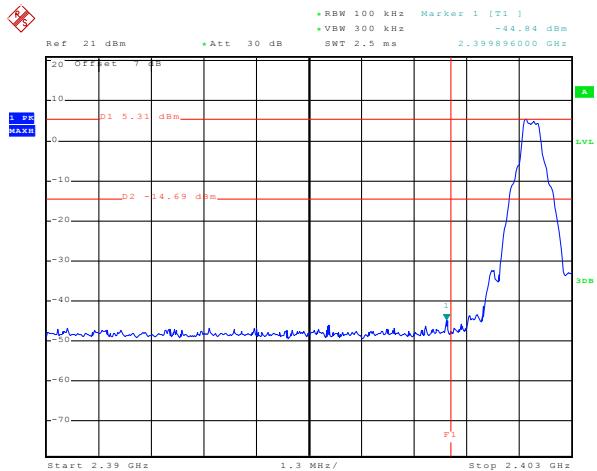
### 6.9.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 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:	<p style="text-align: center;">    <b>Spectrum Analyzer</b>  <b>E.U.T</b>  <b>Non-Conducted Table</b>  <b>Ground Reference Plane</b> </p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass

**Test plot as follows:**

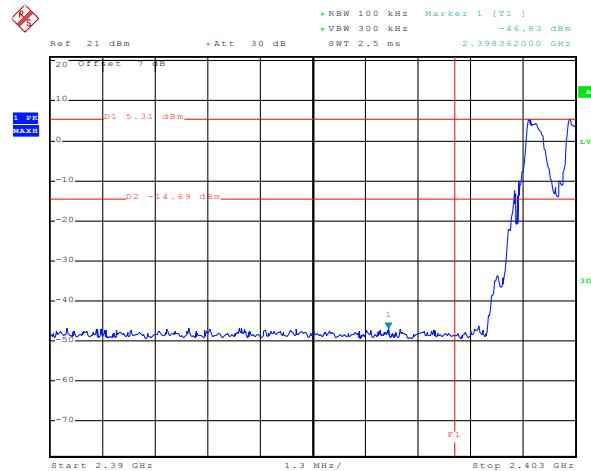
## GFSK

### Lowest Channel



Date: 12.MAR.2015 14:16:56

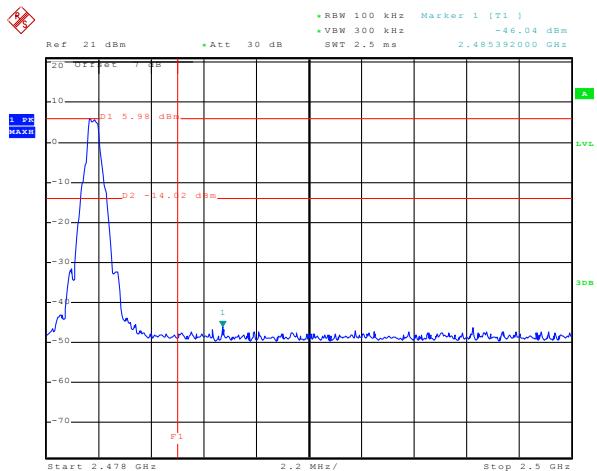
No-hopping mode



Date: 12.MAR.2015 14:19:33

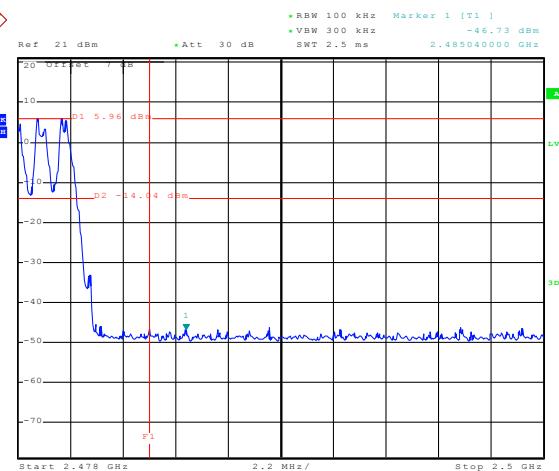
Hopping mode

### Highest Channel



Date: 12.MAR.2015 14:41:23

No-hopping mode

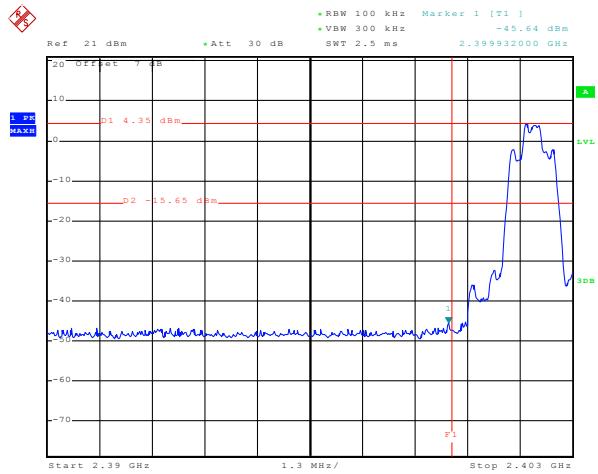


Date: 12.MAR.2015 14:39:52

Hopping mode

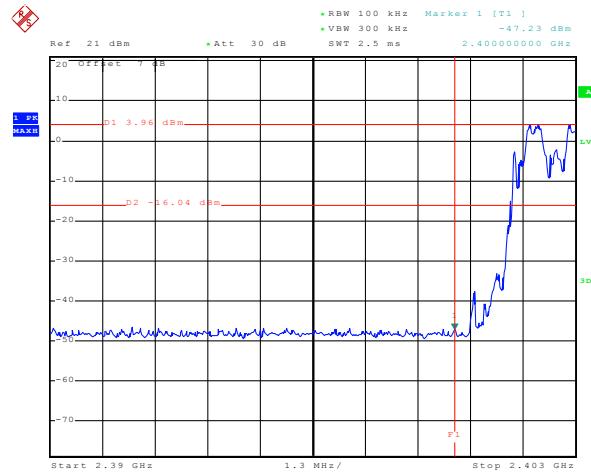
## $\pi/4$ -DQPSK

Lowest Channel



Date: 12.MAR.2015 14:24:23

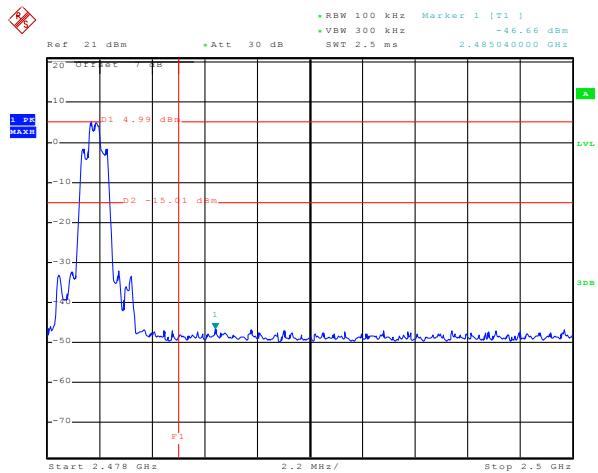
No-hopping mode



Date: 12.MAR.2015 14:22:28

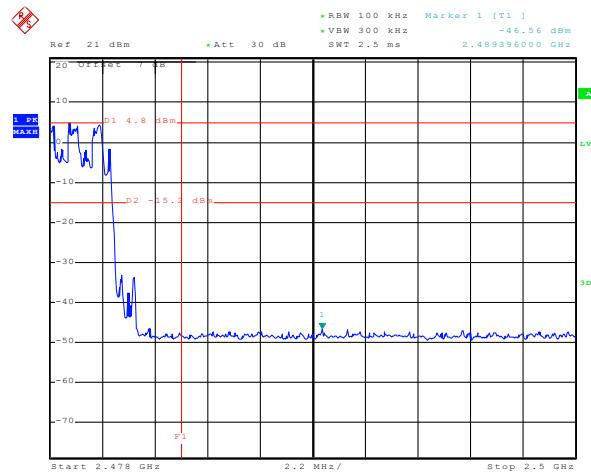
Hopping mode

Highest Channel



Date: 12.MAR.2015 14:35:13

No-hopping mode

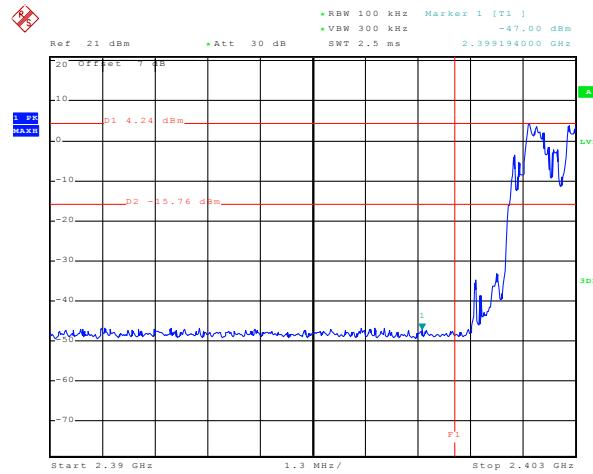
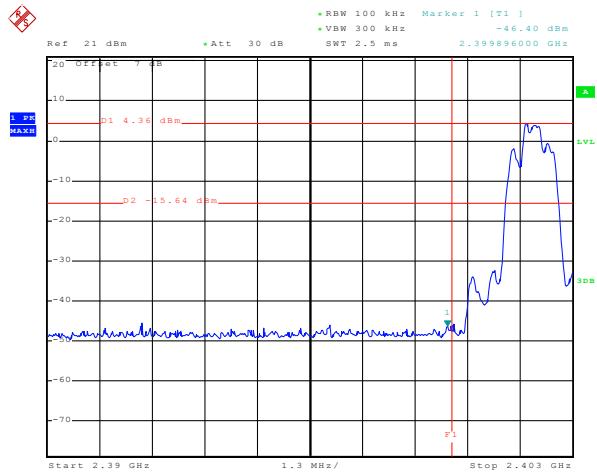


Date: 12.MAR.2015 14:37:48

Hopping mode

## 8DPSK

### Lowest Channel



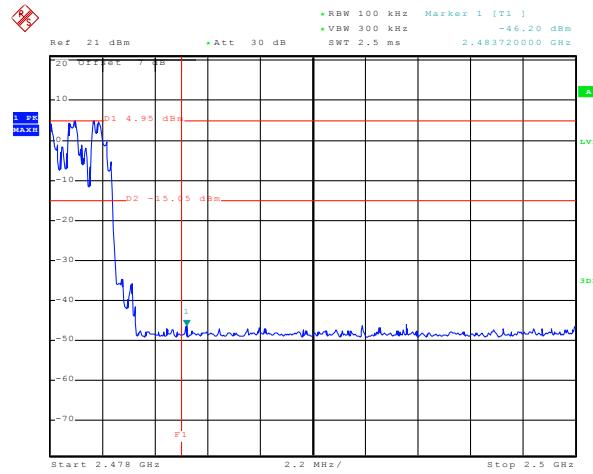
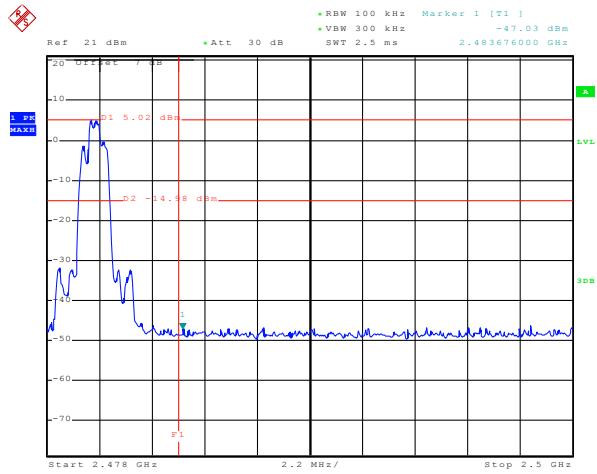
Date: 12.MAR.2015 14:26:21

No-hopping mode

Date: 12.MAR.2015 14:28:46

Hopping mode

### Highest Channel



Date: 12.MAR.2015 14:33:57

No-hopping mode

Date: 12.MAR.2015 14:32:00

Hopping mode

### 6.9.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.4: 2009								
Test Frequency Range:	2.3GHz to 2.5GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		Peak	1MHz	10Hz	Average Value				
Limit:	Frequency	Limit (dBuV/m @3m)		Remark					
	Above 1GHz	54.00		Average Value					
		74.00		Peak Value					
Test setup:									
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ol>								
Test Instruments:	Refer to section 5.7 for details								
Test mode:	Non-hopping mode								
Test results:	Passed								

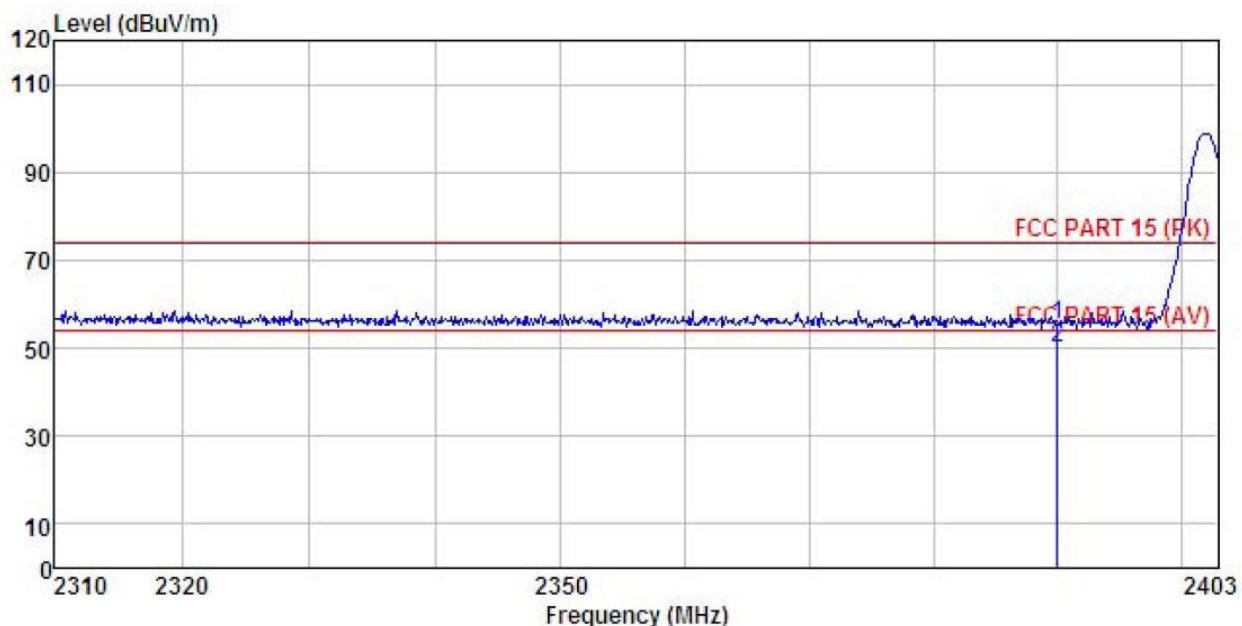
#### Remark:

- During the test, pre-scan the GFSK,  $\pi/4$ -DQPSK, 8DPSK, and all data were shown in report.
- 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

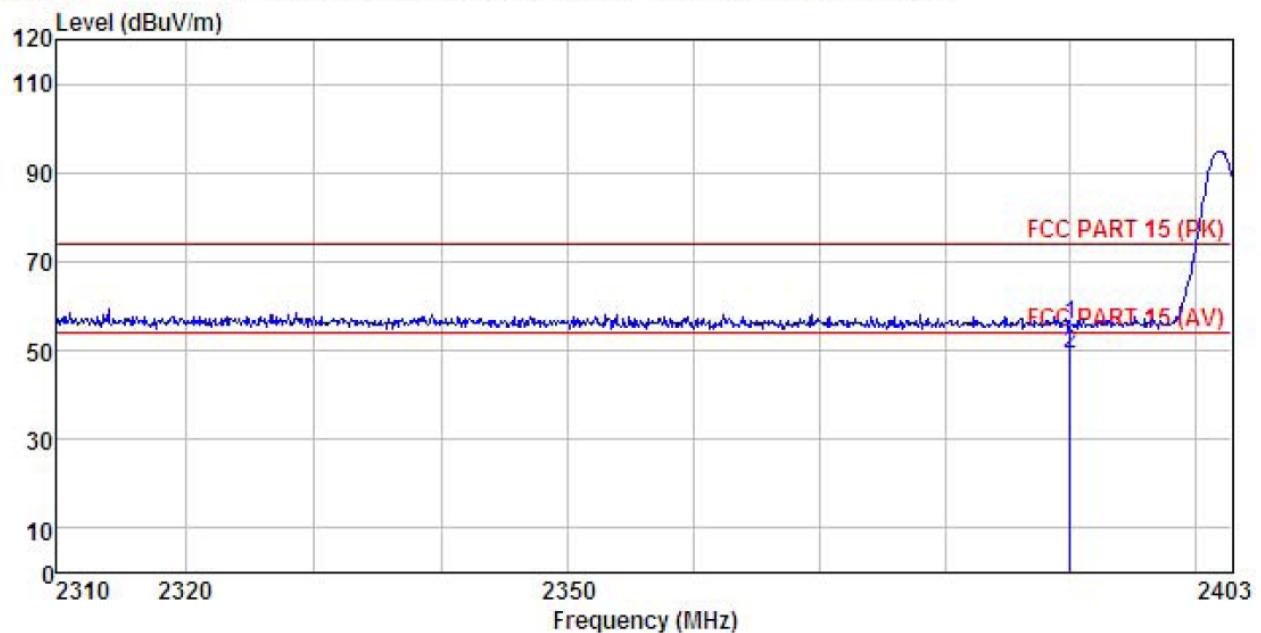
Horizontal:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-DH1-L Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: MT  
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.000	21.88	27.58	5.67	0.00	55.13	74.00 -18.87 Peak
2	2390.000	16.79	27.58	5.67	0.00	50.04	54.00 -3.96 Average

Vertical:

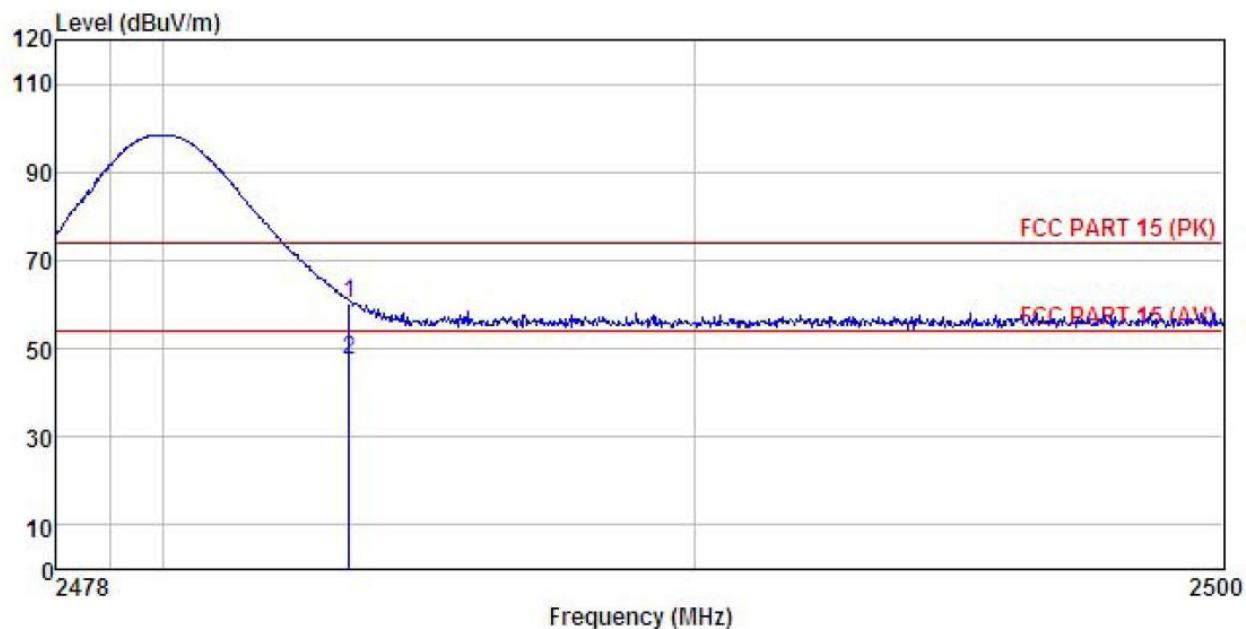


Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-DH1-L Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: MT  
REMARK :

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Level	Line	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	2390.000	22.72	27.58	5.67	0.00	55.97
2	2390.000	16.08	27.58	5.67	0.00	49.33
					74.00	-18.03 Peak
					54.00	-4.67 Average

Test channel: Highest

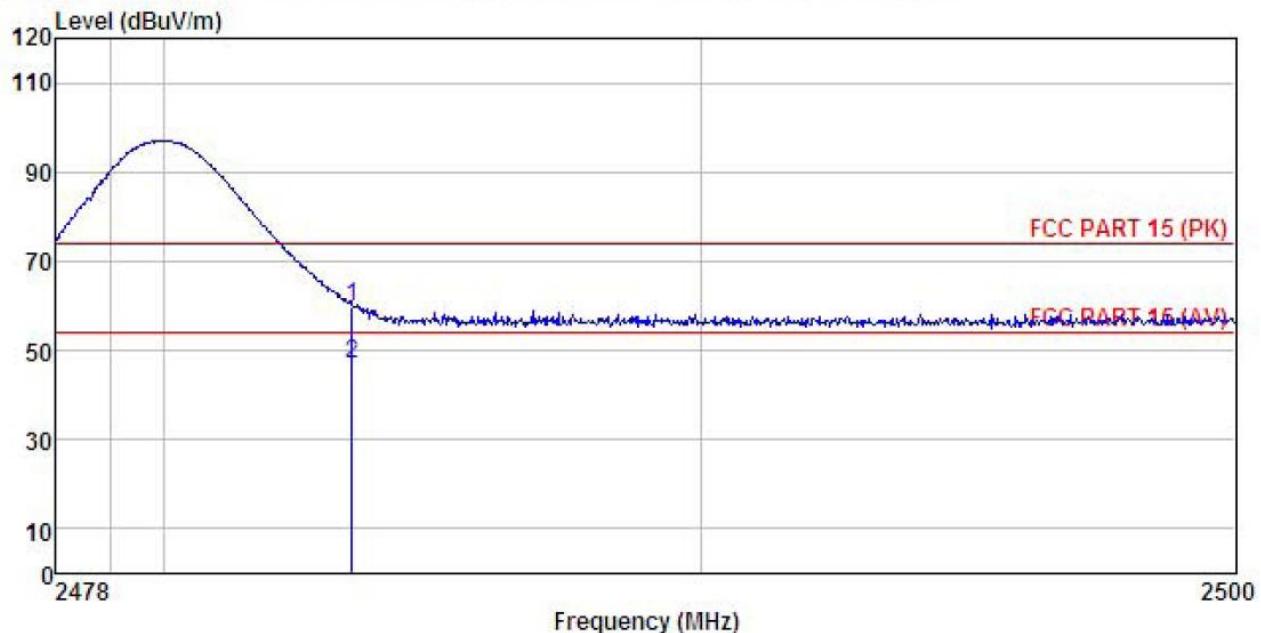
Horizontal:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-DH1-H Mode  
Power Rating : AC 120W/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: MT  
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	27.03	27.52	5.70	0.00	60.25	74.00 -13.75 Peak
2	2483.500	14.32	27.52	5.70	0.00	47.54	54.00 -6.46 Average

Vertical:



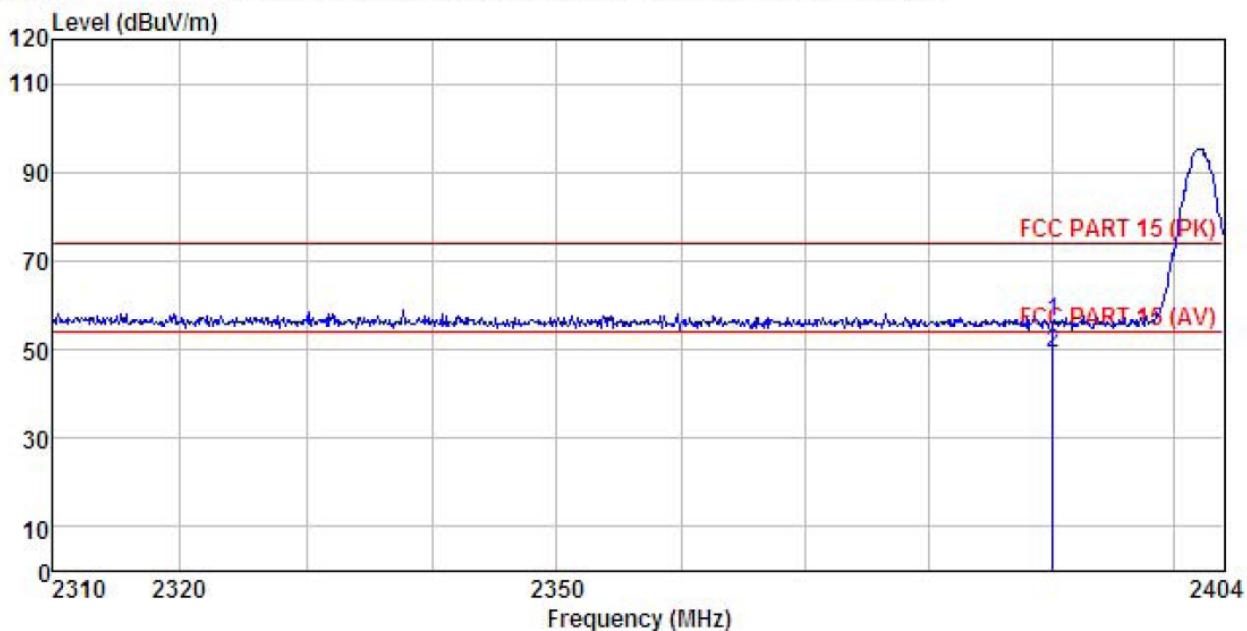
Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-DH1-H Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Humi:55%  
Test Engineer: MT  
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	2483.500	26.54	27.52	5.70	0.00	59.76
2	2483.500	13.88	27.52	5.70	0.00	47.10
					74.00	-14.24 Peak
					54.00	-6.90 Average

**$\pi/4$ -DQPSK mode**

Test channel: Lowest

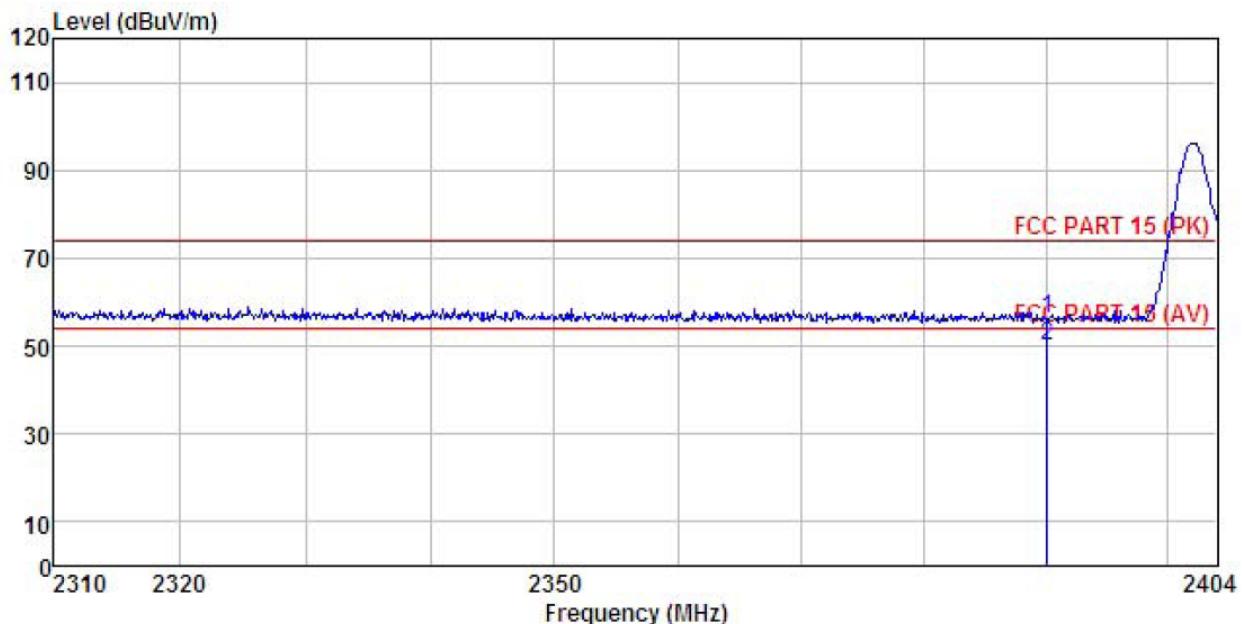
Horizontal:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-2DH1-L Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: MT  
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level Factor	Loss Factor	Level	Line	Line	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.000	23.16	27.58	5.67	0.00	56.41
2	2390.000	15.85	27.58	5.67	0.00	49.10
					74.00	-17.59 Peak
					54.00	-4.90 Average

Vertical:

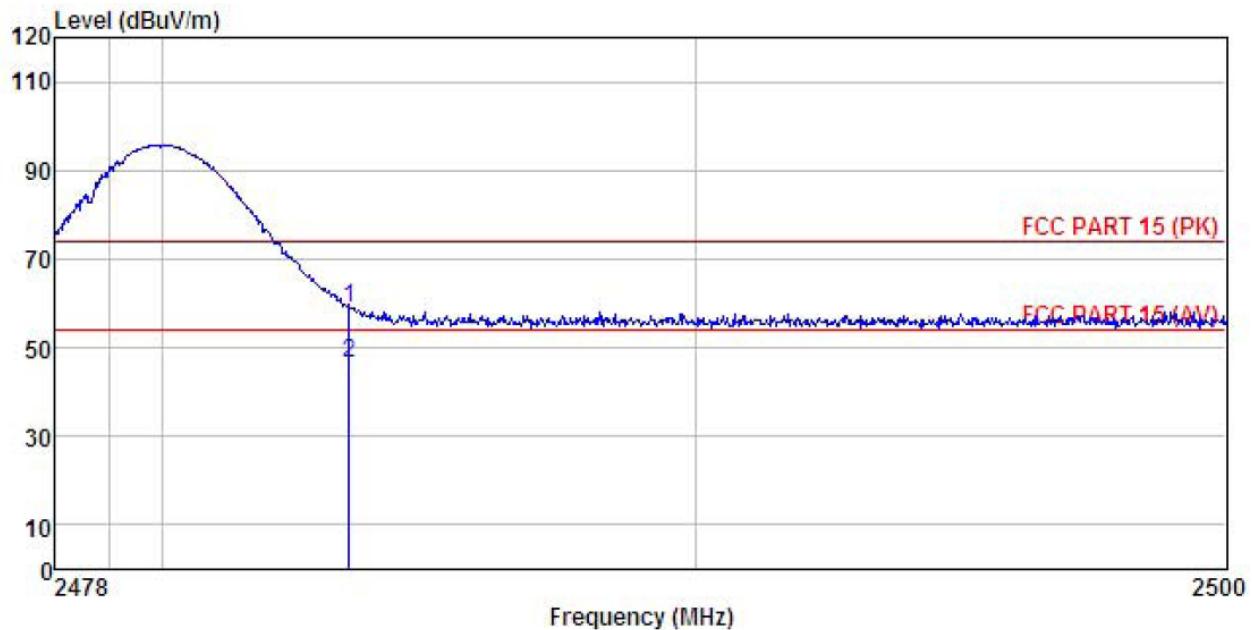


Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-2DH1-L Mode  
Power Rating : AC 120W/60Hz  
Environment : Temp:25.5°C Humi:55%  
Test Engineer: MT  
REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2390.000	23.15	27.58	5.67	0.00	56.40	74.00	-17.60 Peak
2 2390.000	16.86	27.58	5.67	0.00	50.11	54.00	-3.89 Average

Test channel: Highest

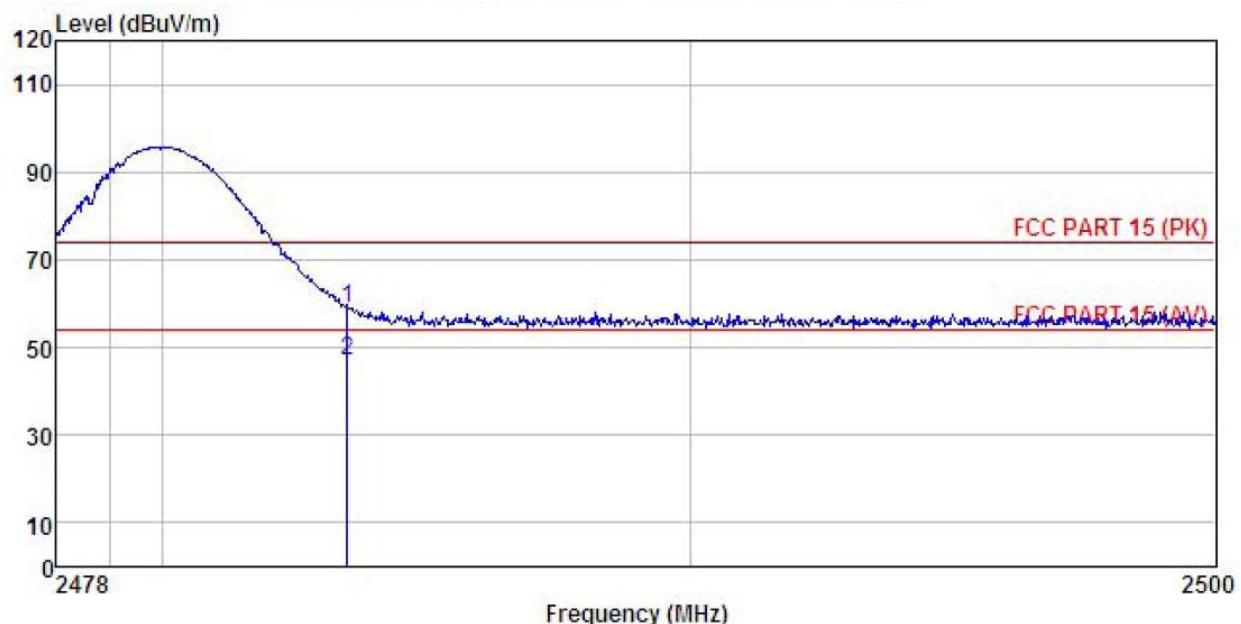
Horizontal:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-2DH1-H Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: MT  
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
1	2483.500	25.70	27.52	5.70	0.00	58.92	74.00 -15.08 Peak
2	2483.500	13.06	27.52	5.70	0.00	46.28	54.00 -7.72 Average

Vertical:



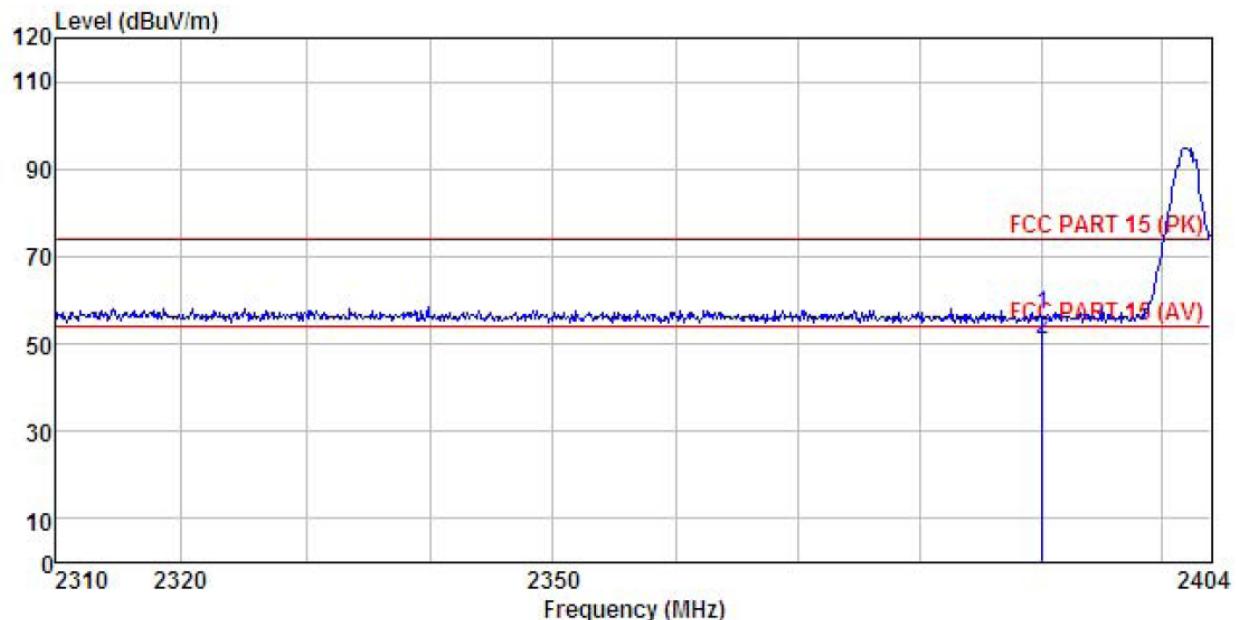
Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-2DH1-H Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Humi:55%  
Test Engineer: MT  
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2483.500	25.64	27.52	5.70	0.00	58.86
2	2483.500	13.84	27.52	5.70	0.00	47.06
					74.00	-15.14 Peak
					54.00	-6.94 Average

**8DPSK mode**

Test channel: Lowest

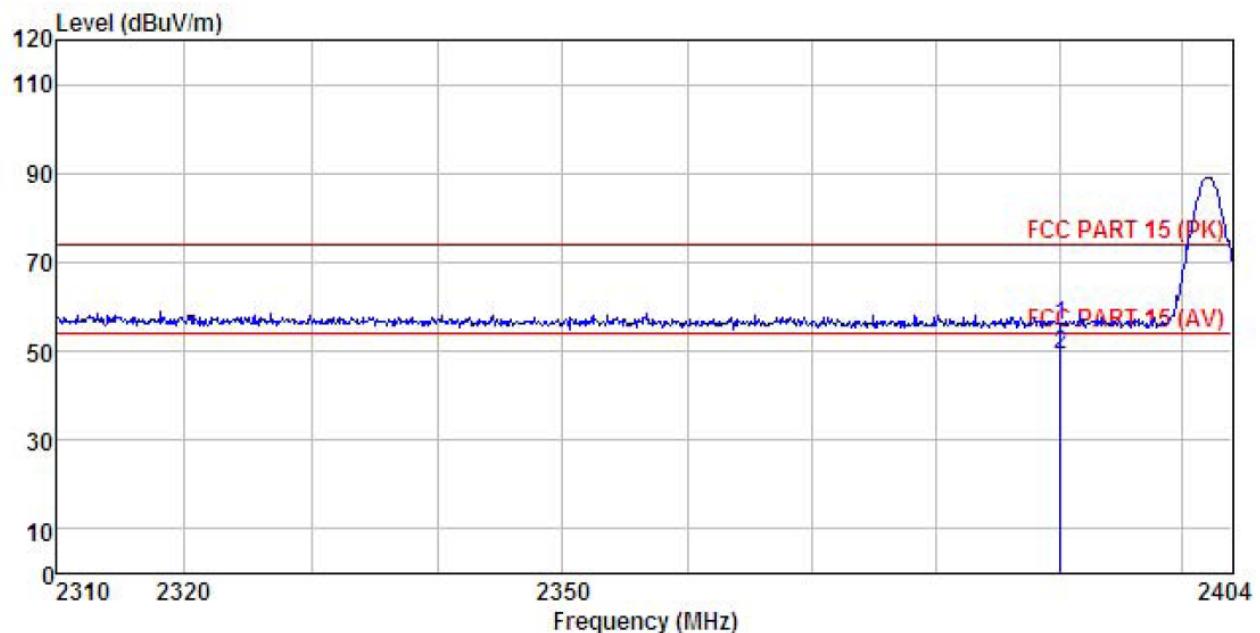
Horizontal:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-3DH1-L Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Humi:55%  
Test Engineer: MT  
REMARK :

Freq	ReadAntenna		Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	23.56	27.58	5.67	0.00	56.81	74.00 -17.19 Peak
2	2390.000	17.55	27.58	5.67	0.00	50.80	54.00 -3.20 Average

Vertical:

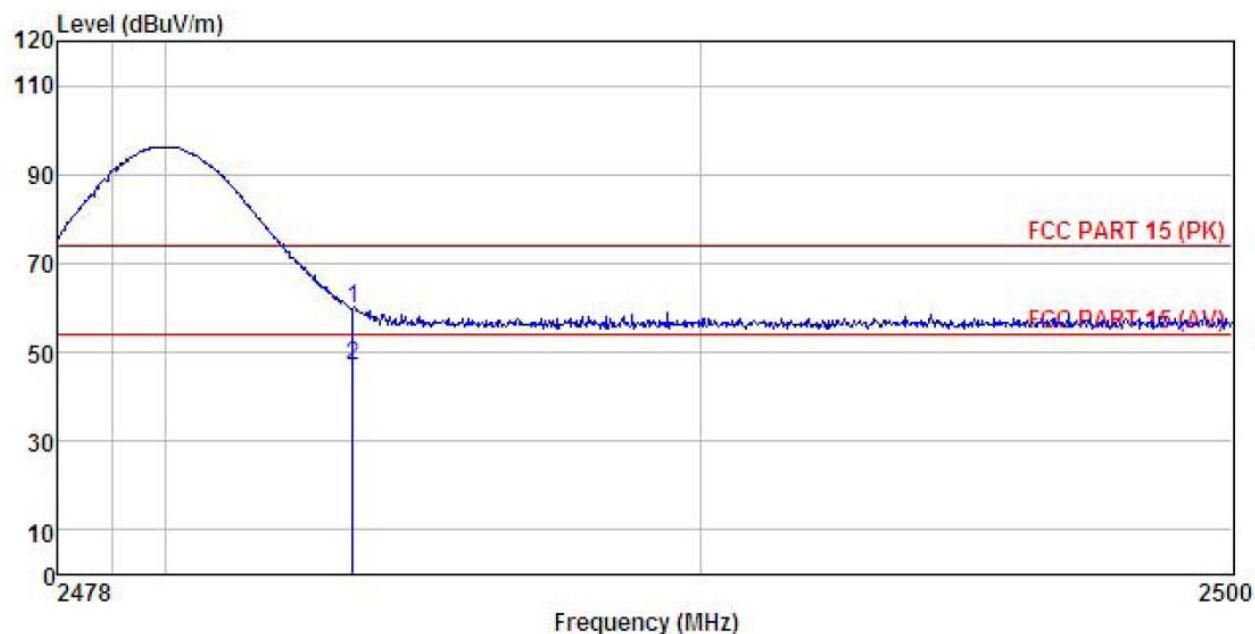


Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBH49120(1G18) VERTICAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-3DH1-L Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: MT  
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.000	22.74	27.58	5.67	0.00	55.99
2	2390.000	15.88	27.58	5.67	0.00	49.13
					74.00	-18.01
					54.00	-4.87
						Peak Average

Test channel: Highest

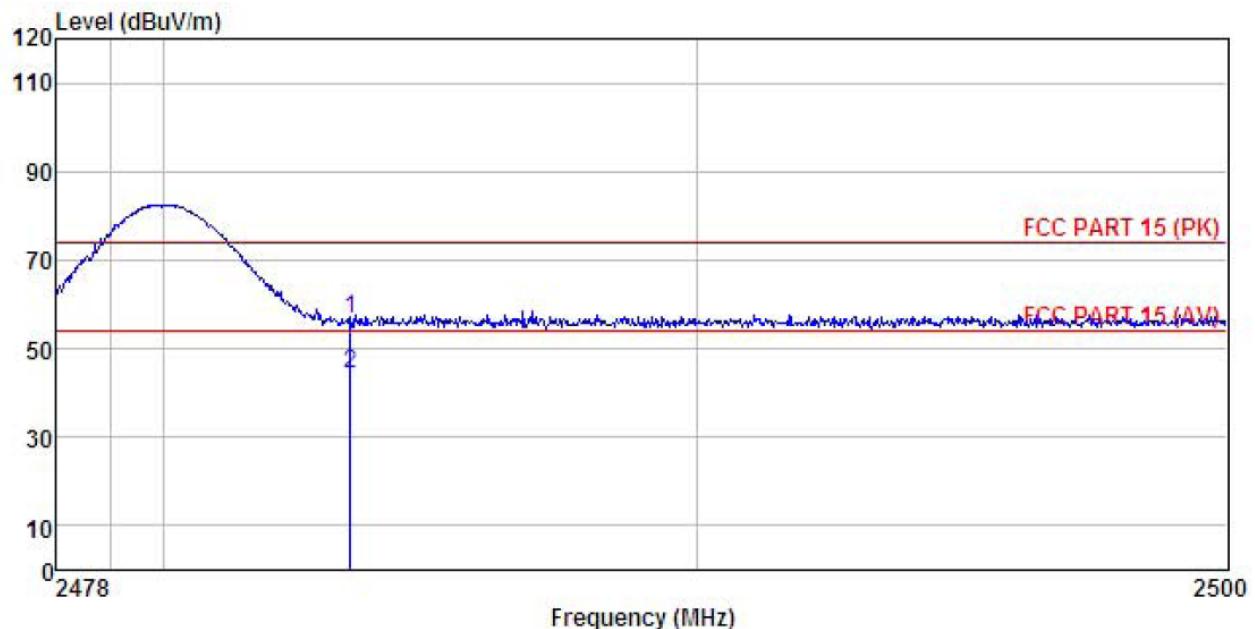
Horizontal:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-3DH1-H Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: MT  
REMARK :

Freq	ReadAntenna		Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	26.65	27.52	5.70	0.00	59.87	74.00 -14.13 Peak
2	2483.500	13.73	27.52	5.70	0.00	46.95	54.00 -7.05 Average

Vertical:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT-3DH1-H Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Humi:55%  
Test Engineer: MT  
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	23.40	27.52	5.70	0.00	56.62	74.00 -17.38 Peak
2	2483.500	11.26	27.52	5.70	0.00	44.48	54.00 -9.52 Average

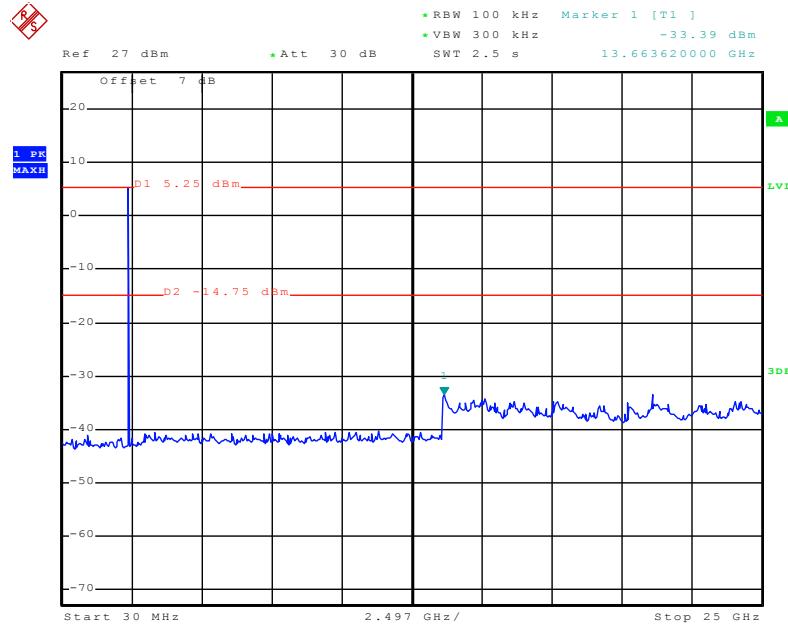
## 6.10 Spurious Emission

### 6.10.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 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:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

## GFSK

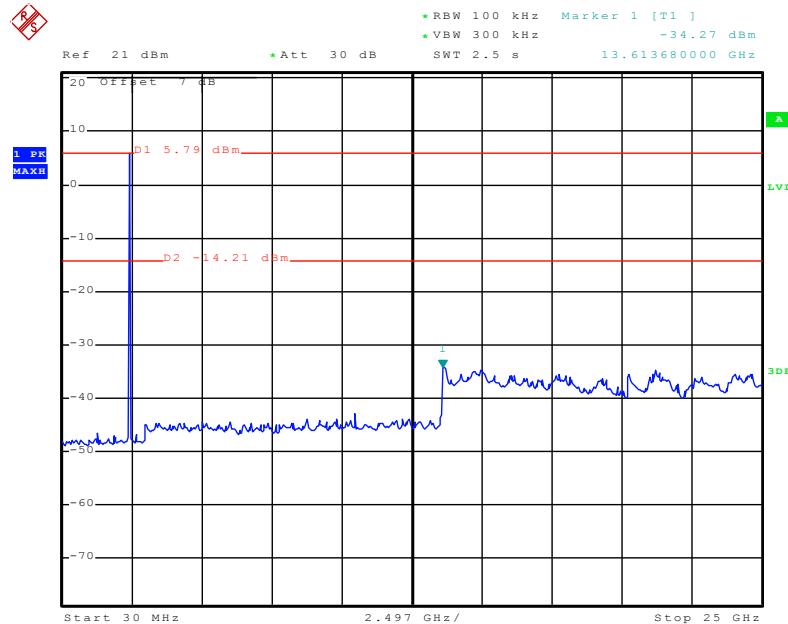
Lowest channel



Date: 12.MAR.2015 11:16:16

30MHz~25GHz

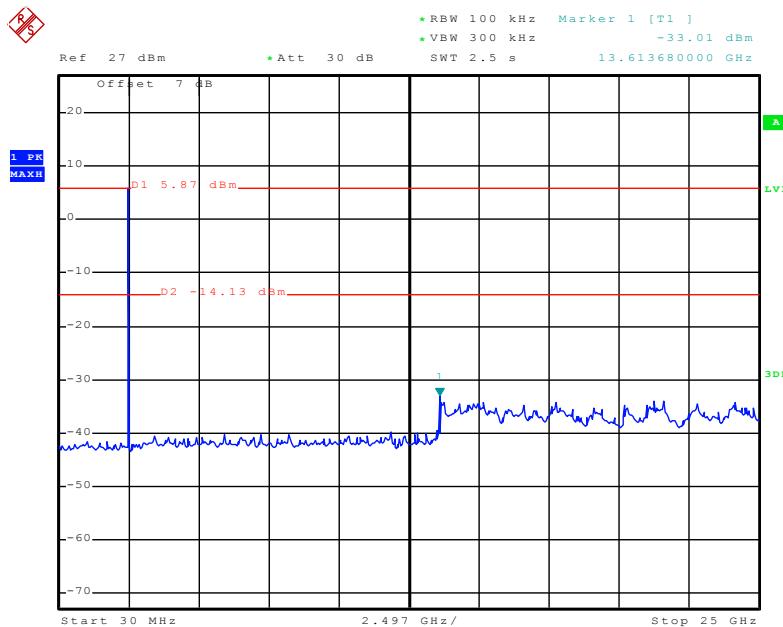
Middle channel



Date: 12.MAR.2015 14:59:37

30MHz~25GHz

## Highest channel

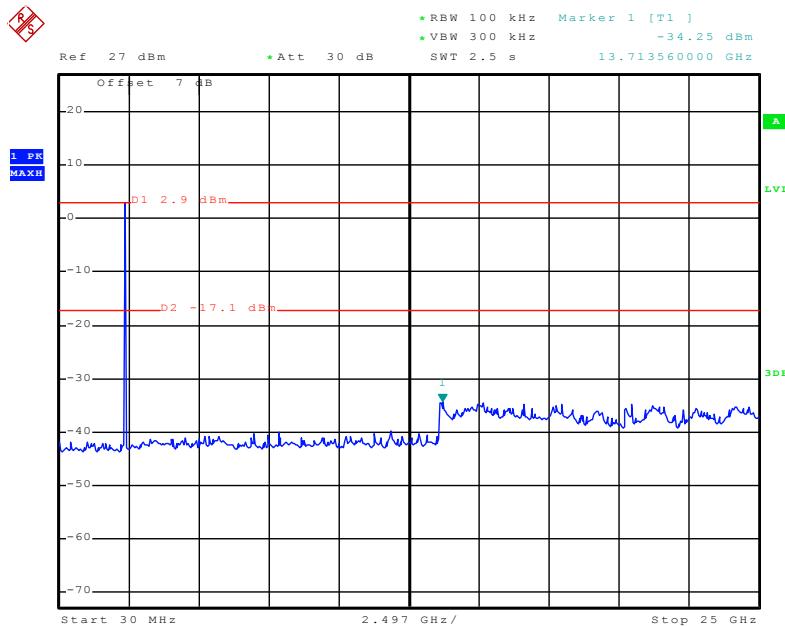


Date: 12.MAR.2015 11:19:27

30MHz~25GHz

## $\pi/4$ -DQPSK

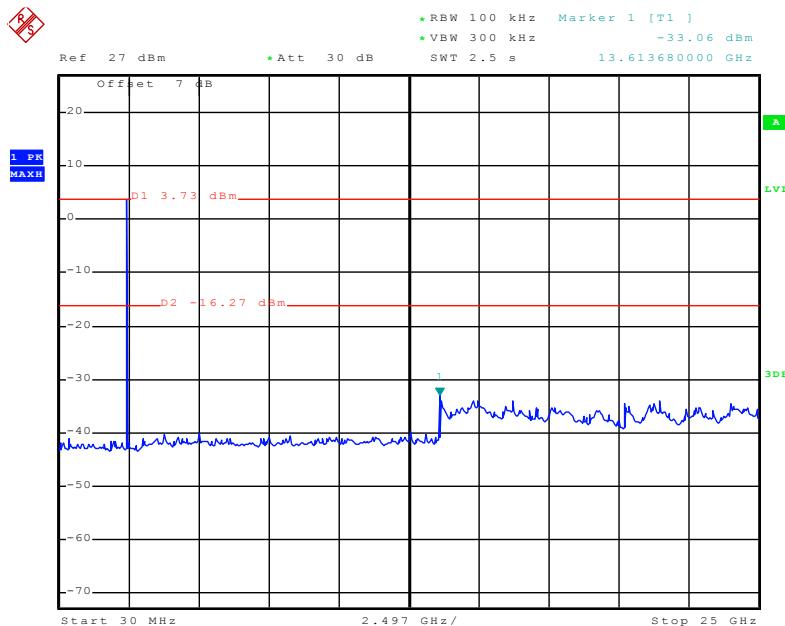
Lowest channel



Date: 12.MAR.2015 11:23:48

30MHz~25GHz

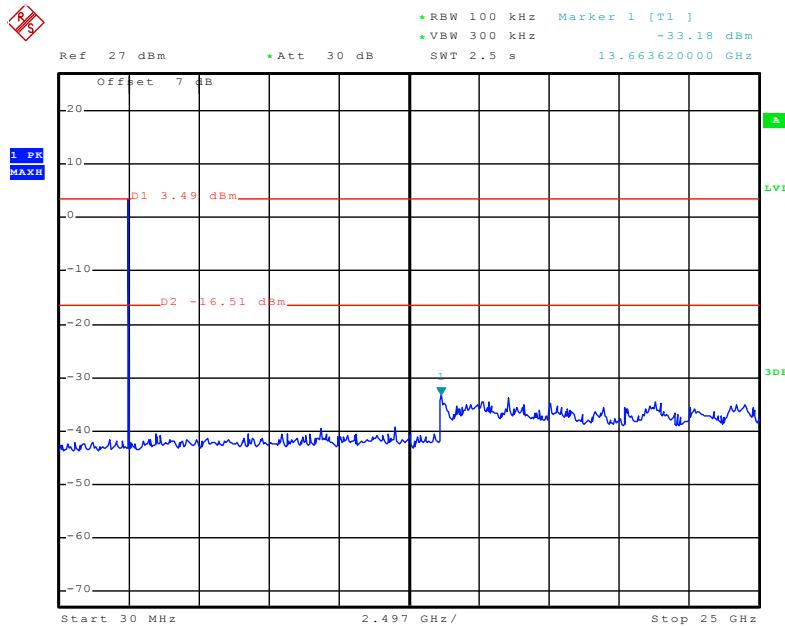
Middle channel



Date: 12.MAR.2015 11:22:52

30MHz~25GHz

## Highest channel

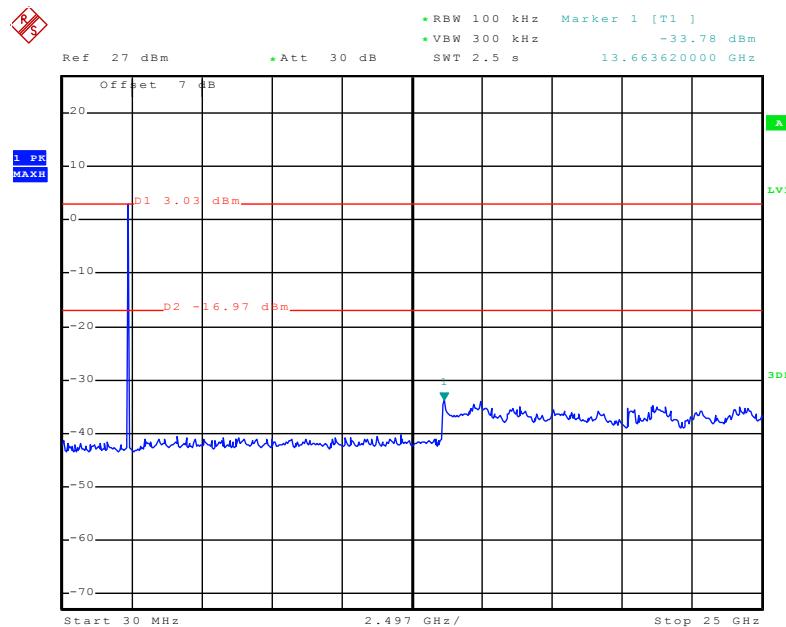


Date: 12.MAR.2015 11:20:57

30MHz~25GHz

## 8DPSK

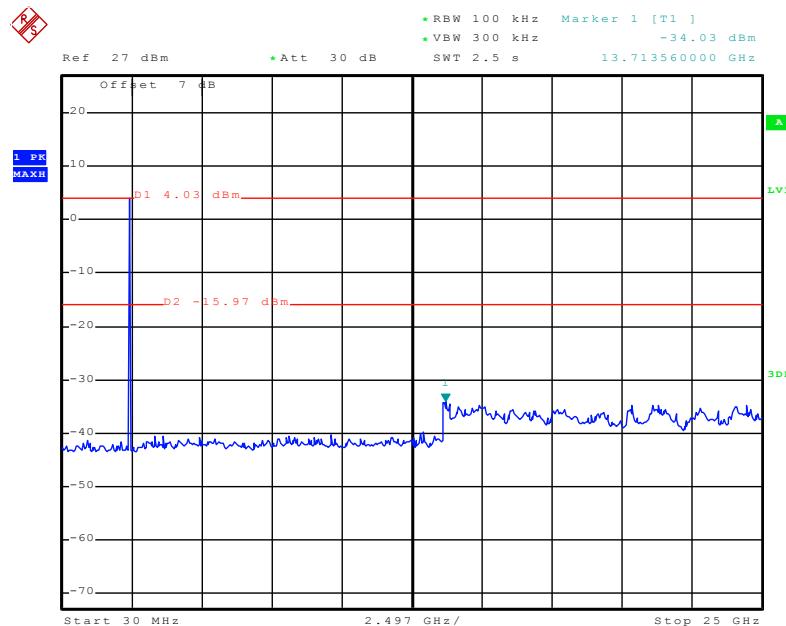
Lowest channel



Date: 12.MAR.2015 11:25:18

30MHz~25GHz

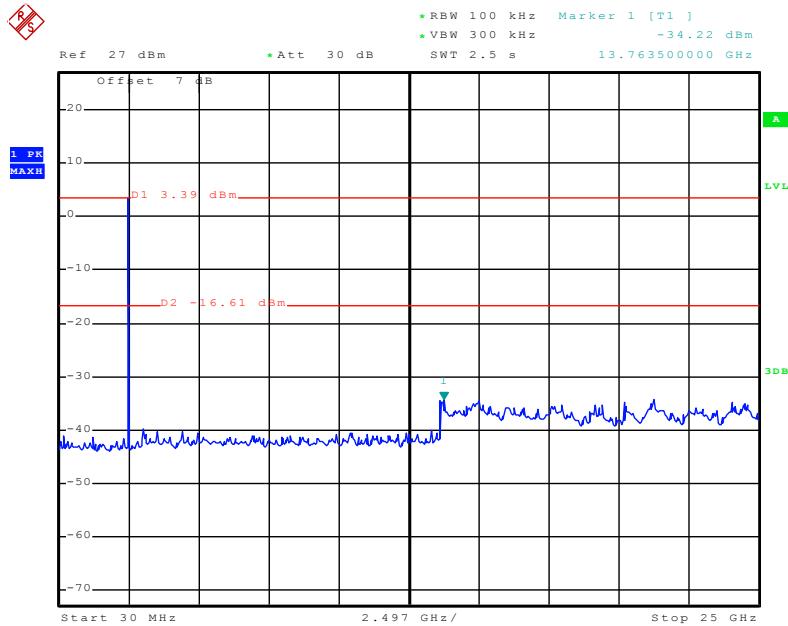
Middle channel



Date: 12.MAR.2015 11:26:34

30MHz~25GHz

## Highest channel



30MHz~25GHz

### 6.10.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209						
Test Method:	ANSI C63.4: 2009						
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		
Limit:	Peak	1MHz	10Hz	Average Value			
	Frequency	Limit (dBuV/m @3m)		Remark			
	30MHz-88MHz	40.0		Quasi-peak Value			
	88MHz-216MHz	43.5		Quasi-peak Value			
	216MHz-960MHz	46.0		Quasi-peak Value			
	960MHz-1GHz	54.0		Quasi-peak Value			
	Above 1GHz	54.0		Average Value			
Test setup:	74.0						
	Peak Value						
Below 1GHz							
Above 1GHz							

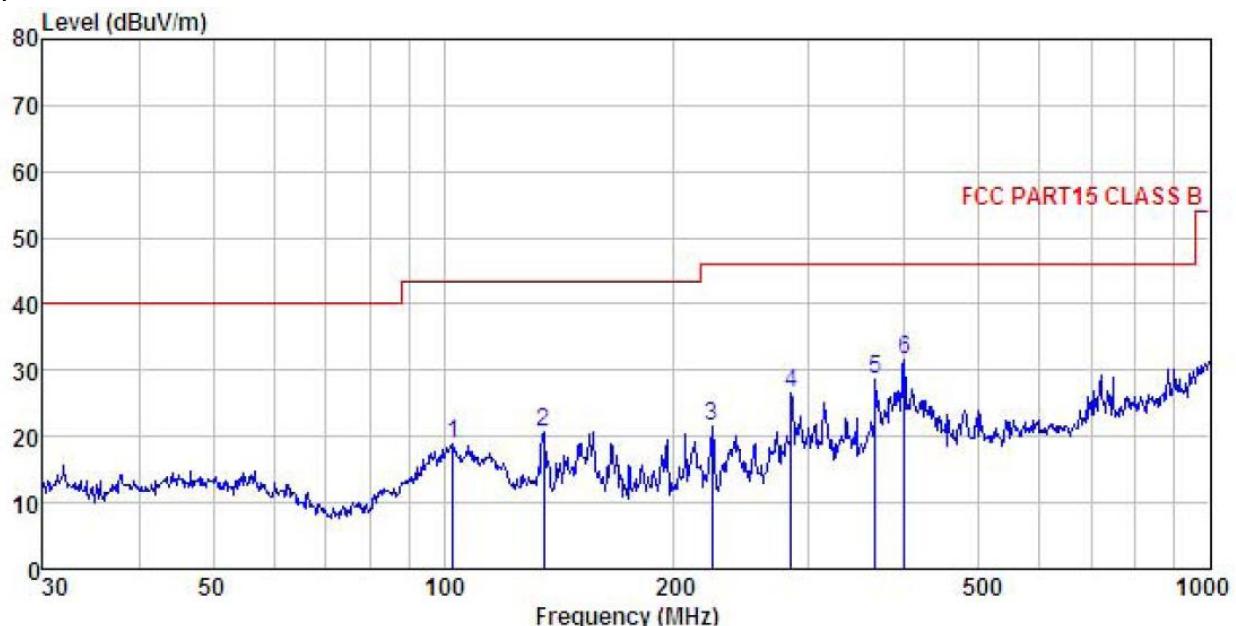
Test Procedure:	<ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table 0.8 meters for below 1GHz, 1.5 meters for above 1GHz above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>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.</li><li>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.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>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.</li></ol>
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**

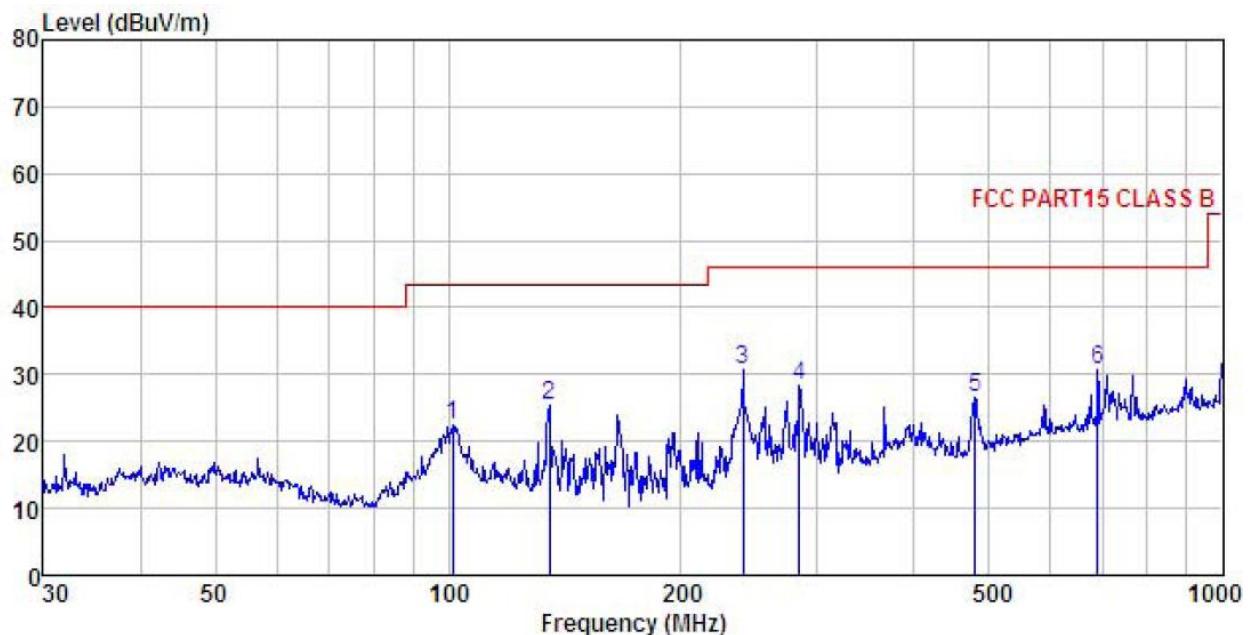
Vertical:



Site : 3m chamber  
Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT Mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Huni:55%  
Test Engineer: MT  
REMARK :

Freq	ReadAntenna		Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	102.719	34.62	12.92	0.98	29.51	19.01	43.50 -24.49 QP
2	135.032	40.19	8.56	1.23	29.30	20.68	43.50 -22.82 QP
3	223.733	37.34	11.36	1.50	28.69	21.51	46.00 -24.49 QP
4	283.979	40.68	12.75	1.72	28.48	26.67	46.00 -19.33 QP
5	365.539	40.75	14.48	2.00	28.63	28.60	46.00 -17.40 QP
6	399.030	43.22	15.06	2.12	28.77	31.63	46.00 -14.37 QP

Horizontal:



Site : 3m chamber  
Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL  
EUT : Mobile Phone  
Model : A35  
Test mode : BT Mode  
Power Rating : AC 120W/60Hz  
Environment : Temp:25.5°C Humi:55%  
Test Engineer: MT  
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	101.289	38.04	13.02	0.97	29.52	22.51
2	135.032	44.92	8.56	1.23	29.30	25.41
3	239.987	45.49	12.09	1.58	28.59	30.57
4	283.979	42.44	12.75	1.72	28.48	28.43
5	478.846	37.14	16.07	2.34	28.92	26.63
6	689.565	37.85	18.78	2.89	28.69	30.83

**Above 1GHz:**

Test channel:			Lowest		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
4804.00	48.56	31.53	8.90	40.24	48.75	74.00	-25.25	Vertical
4804.00	48.03	31.53	8.90	40.24	48.22	74.00	-25.78	Horizontal
Test channel:			Lowest		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	39.02	31.53	8.90	40.24	39.21	54.00	-14.79	Vertical
4804.00	37.15	31.53	8.90	40.24	37.34	54.00	-16.66	Horizontal

Test channel:			Middle		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	46.75	31.58	8.98	40.15	47.16	74.00	-26.84	Vertical
4882.00	47.55	31.58	8.98	40.15	47.96	74.00	-26.04	Horizontal
Test 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	36.62	31.58	8.98	40.15	37.03	54.00	-16.97	Vertical
4882.00	37.95	31.58	8.98	40.15	38.36	54.00	-15.64	Horizontal

Test channel:			Highest		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	45.73	31.69	9.08	40.03	46.47	74.00	-27.53	Vertical
4960.00	47.15	31.69	9.08	40.03	47.89	74.00	-26.11	Horizontal
Test 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	35.63	31.69	9.08	40.03	36.37	54.00	-17.63	Vertical
4960.00	37.63	31.69	9.08	40.03	38.37	54.00	-15.63	Horizontal

**Remark:**

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