

FCC REPORT

(Bluetooth)

Applicant: Sun Cupid Technology (HK) Ltd.

Address of Applicant: 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.

Equipment Under Test (EUT)

Product Name: LTE mobile phone

Model No.: N5701L, G1

Trade mark: NUU

FCC ID: 2ADINN5701L

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

Date of sample receipt: 11 Oct., 2017

Date of Test: 11 Oct., to 31 Oct., 2017

Date of report issued: 01 Nov., 2017

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	01 Nov., 2017	Original

Tested by:**Date:**

01 Nov., 2017

Test Engineer**Reviewed by:****Date:**

01 Nov., 2017

Project Engineer

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4 Test Summary

Test Items	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
Spurious 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:	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer:	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.
Factory:	SUNCUPID (ShenZhen) Electronic Ltd
Address:	Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A7, China.

5.2 General Description of E.U.T.

Product Name:	LTE mobile phone
Model No.:	N5701L, G1
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:	1.4 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2800mAh
AC adapter :	Model: TPA-46050150UU Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1500mA
Remark:	Model No.: N5701L, G1 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.

Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK							
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
...
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, π/4-DQPSK and 8DPSK.

5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Modes:	
Non-hopping mode:	Keep the EUT in continuous transmitting mode with worst case data rate.
Hopping mode:	Keep the EUT in hopping mode.
Remark	GFSK (1 Mbps) is the worst case mode.
The sample was placed 0.8m (below 1GHz)/1.5m (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 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5.6 Laboratory Facility

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

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **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.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.7 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
Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

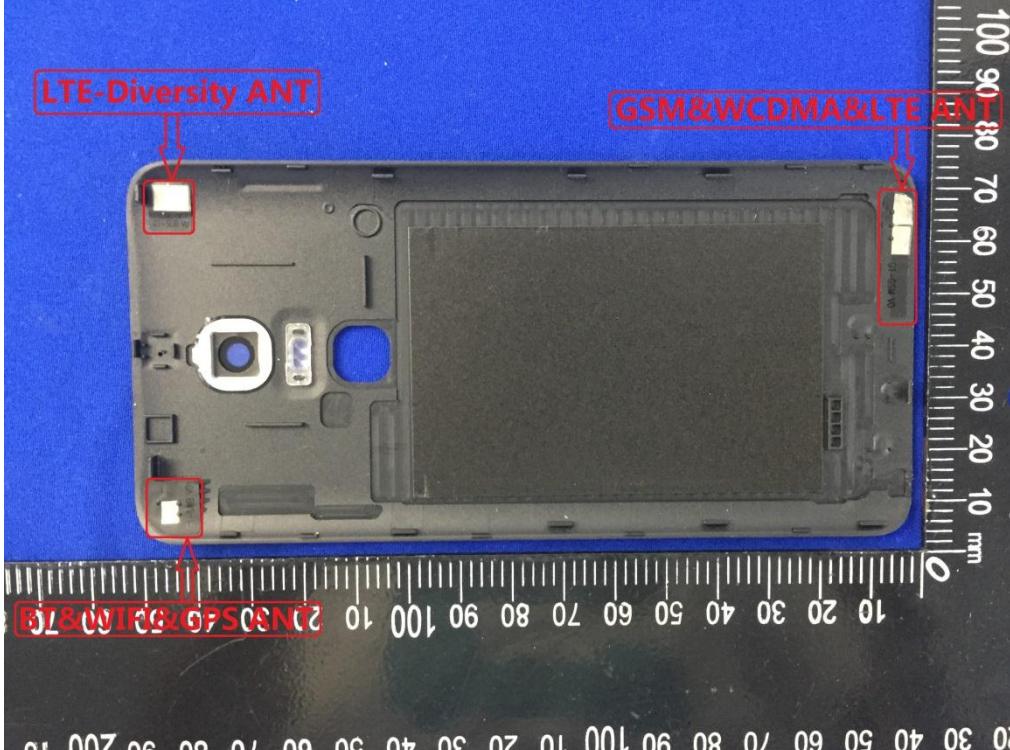
5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	02-25-2017	02-24-2018
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	02-25-2017	02-24-2018
Horn Antenna	SCHWARZBECK	BBHA9120D	916	02-25-2017	02-24-2018
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	02-25-2017	02-24-2018
Pre-amplifier	CD	PAP-1G18	11804	02-25-2017	02-24-2018
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	02-25-2017	02-24-2018
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	02-25-2017	02-24-2018
Cable	ZDECL	Z108-NJ-NJ-81	1608458	02-25-2017	02-24-2018
Cable	MICRO-COAX	MFR64639	K10742-5	02-25-2017	02-24-2018
Cable	SUHNER	SUCOFLEX100	58193/4PE	02-25-2017	02-24-2018

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	02-25-2017	02-24-2018
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	02-25-2017	02-24-2018
LISN	CHASE	MN2050D	1447	02-25-2017	02-24-2018
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2018
Cable	HP	10503A	N/A	02-25-2017	02-24-2018
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A

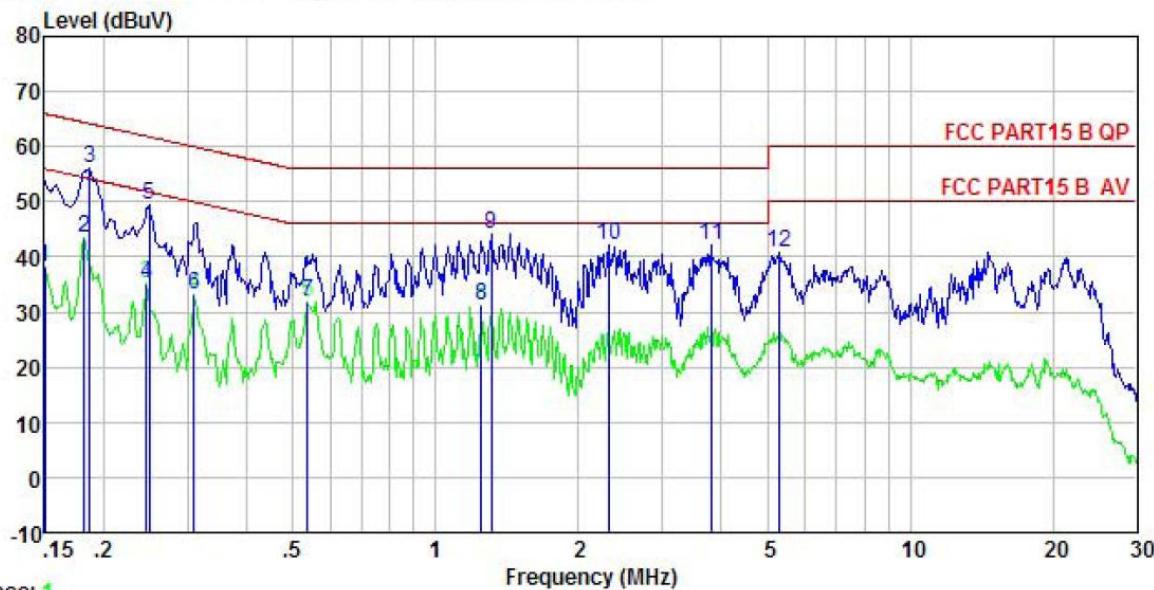
6 Test results and measurement data

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 Internal antenna which permanently attached, and the best case gain of the antenna is 1.4 dBi.
	

6.2 Conducted Emissions

Test Requirement:	FCC Part 15 C Section 15.207		
Test Method:	ANSI C63.4:2014		
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>Reference Plane</p> <p>LISN</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>Test table/Insulation plane</p> <p>40cm</p> <p>80cm</p> <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"> 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: 2014 on conducted measurement. 		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Hopping mode		
Test results:	Pass		

Measurement Data:**Line:**

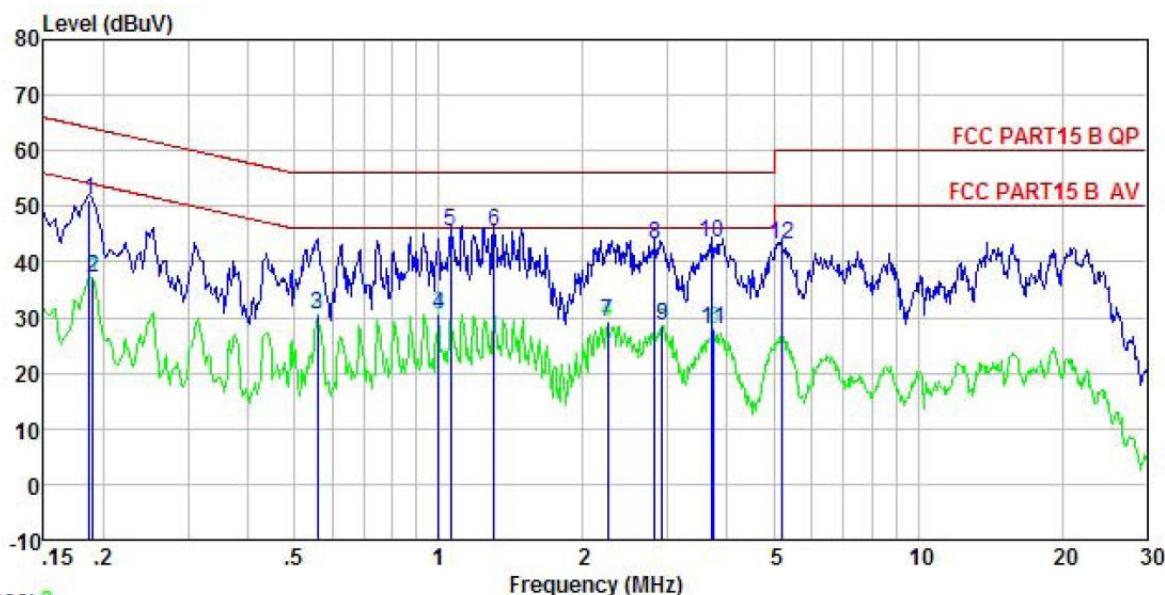
Trace: 1

Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN LINE
 EUT : LTE Mobil Phone
 Model : N5701L
 Test Mode : BT mode
 Power Rating : AC 120/60Hz
 Environment : Temp: 23 °C Huni:56% Atmos:101KPa
 Test Engineer: Carey
 Remark :

Freq	Read	LISN	Cable	Limit	Over	Remark
	Level	Factor	Loss	Level	Line	
MHz	dBuV	dB	dB	dBuV	dBuV	dB
1	0.150	28.03	-0.56	10.78	38.25	56.00 -17.75 Average
2	0.182	33.29	-0.53	10.77	43.53	54.42 -10.89 Average
3	0.186	45.73	-0.53	10.76	55.96	64.20 -8.24 QP
4	0.246	25.01	-0.51	10.75	35.25	51.91 -16.66 Average
5	0.249	39.20	-0.51	10.75	49.44	61.78 -12.34 QP
6	0.310	23.08	-0.51	10.74	33.31	49.97 -16.66 Average
7	0.538	21.54	-0.49	10.76	31.81	46.00 -14.19 Average
8	1.249	20.62	-0.47	10.90	31.05	46.00 -14.95 Average
9	1.310	33.75	-0.47	10.90	44.18	56.00 -11.82 QP
10	2.309	31.77	-0.43	10.95	42.29	56.00 -13.71 QP
11	3.799	31.53	-0.32	10.90	42.11	56.00 -13.89 QP
12	5.305	30.26	-0.16	10.84	40.94	60.00 -19.06 QP

Notes:

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

Neutral:

Trace: 3

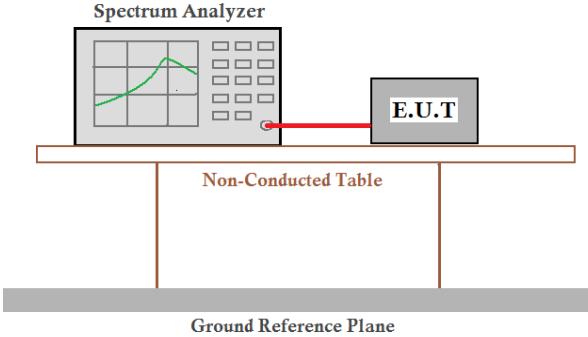
Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN NEUTRAL
 EUT : LTE Mobil Phone
 Model : N5701L
 Test Mode : BT mode
 Power Rating : AC 120/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Carey
 Remark :

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.186	40.69	-0.35	10.76	51.10	64.20	-13.10	QP
2	0.190	26.71	-0.35	10.76	37.12	54.02	-16.90	Average
3	0.558	19.91	-0.30	10.76	30.37	46.00	-15.63	Average
4	1.000	20.06	-0.29	10.87	30.64	46.00	-15.36	Average
5	1.060	34.86	-0.29	10.88	45.45	56.00	-10.55	QP
6	1.303	34.95	-0.28	10.90	45.57	56.00	-10.43	QP
7	2.249	18.49	-0.24	10.95	29.20	46.00	-16.80	Average
8	2.824	32.35	-0.21	10.93	43.07	56.00	-12.93	QP
9	2.931	17.87	-0.20	10.92	28.59	46.00	-17.41	Average
10	3.700	32.76	-0.20	10.90	43.46	56.00	-12.54	QP
11	3.759	17.05	-0.20	10.90	27.75	46.00	-18.25	Average
12	5.194	32.37	-0.16	10.84	43.05	60.00	-16.95	QP

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

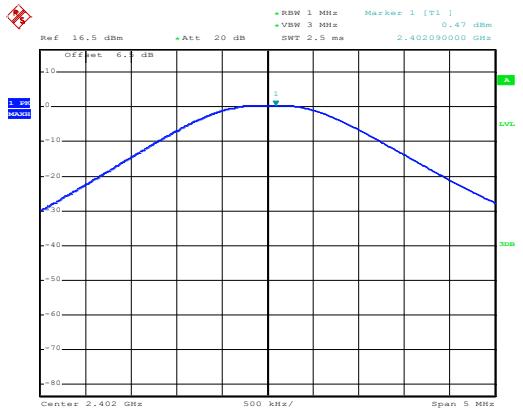
Test Requirement:	FCC Part 15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013 and DA00-705
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤ 1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)
Limit:	125 mW(21 dBm)
Test setup:	 <p>The diagram illustrates the test setup for conducted output power. A Spectrum Analyzer is positioned above a Non-Conducted Table. An Equipment Under Test (E.U.T) is placed on the table, connected to the analyzer by a red line. The entire setup rests on a grey ground reference plane.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Non-hopping mode
Test results:	Pass

Measurement Data:

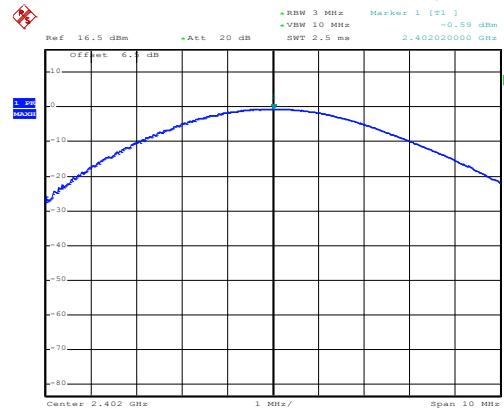
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK mode			
Lowest	0.47	21.00	Pass
Middle	0.69	21.00	Pass
Highest	0.05	21.00	Pass
π/4-DQPSK mode			
Lowest	-0.59	21.00	Pass
Middle	-0.10	21.00	Pass
Highest	-0.80	21.00	Pass
8DPSK mode			
Lowest	-0.44	21.00	Pass
Middle	-0.10	21.00	Pass
Highest	-0.74	21.00	Pass

Test plot as follows:

Modulation mode: GFSK

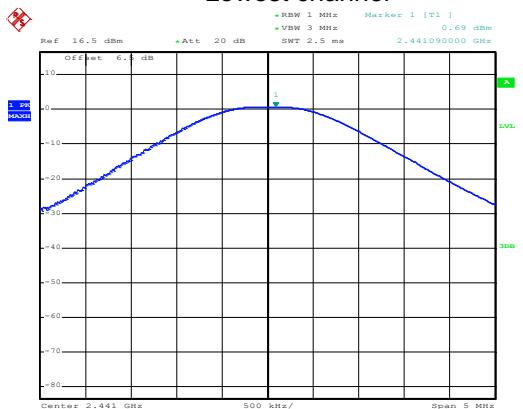


Modulation mode: $\pi/4$ -DQPSK

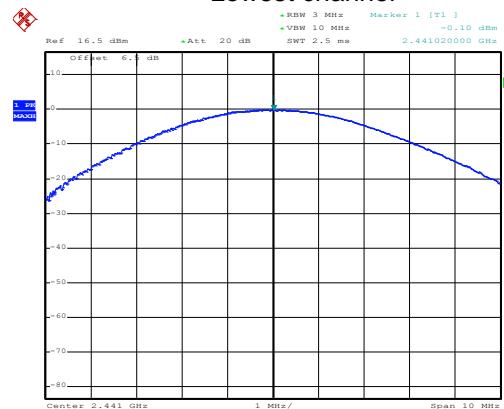


Date: 16.OCT.2017 15:25:28

Lowest channel

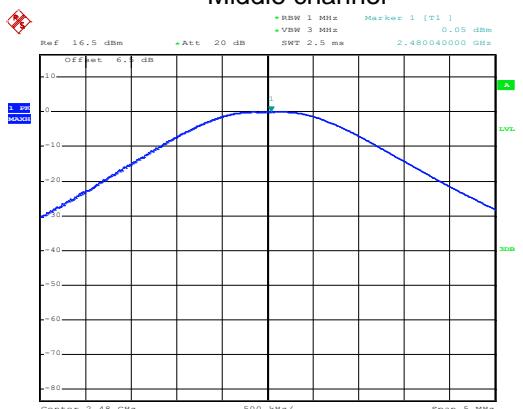


Lowest channel

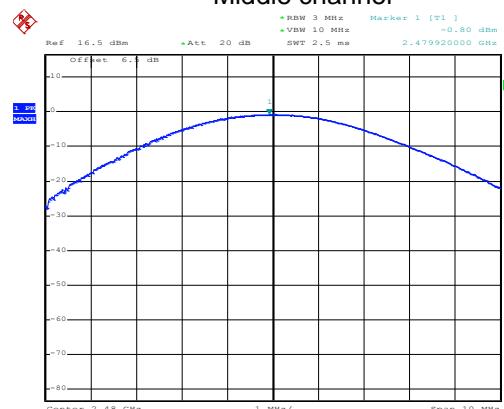


Date: 16.OCT.2017 15:25:45

Middle channel



Middle channel



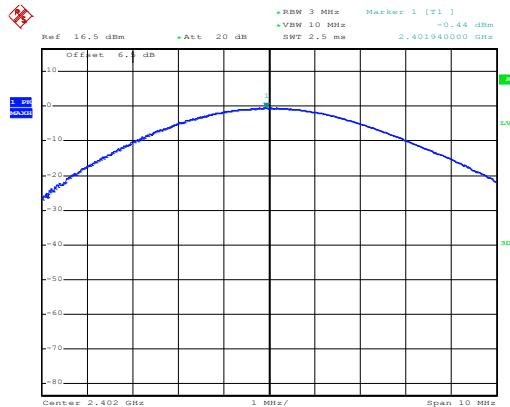
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Highest channel

Date: 16.OCT.2017 15:26:20

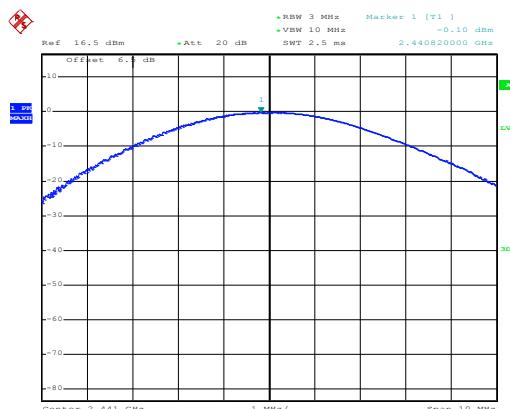
Highest channel

Modulation mode: 8DPSK



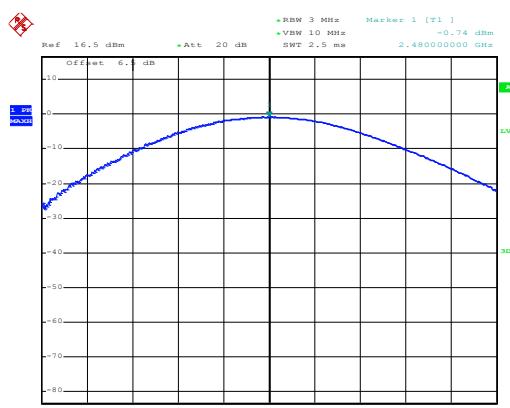
Date: 16.OCT.2017 15:27:04

Lowest channel



Date: 16.OCT.2017 15:27:15

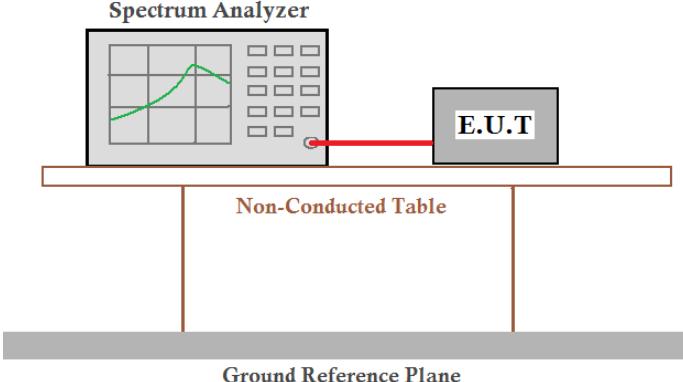
Middle channel



Date: 16.OCT.2017 15:27:25

Highest channel

6.4 20dB Occupy Bandwidth

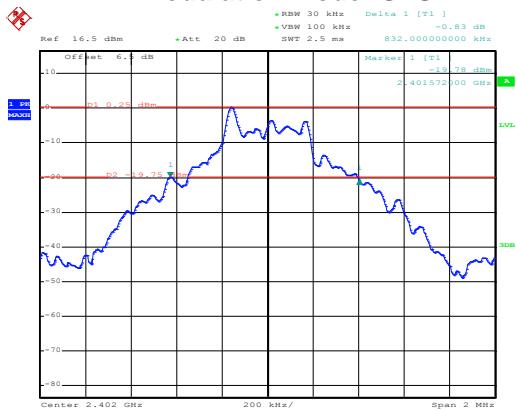
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 and DA00-705
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak
Limit:	NA
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a coaxial 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 5.8 for details
Test mode:	Non-hopping mode
Test results:	Pass

Measurement Data:

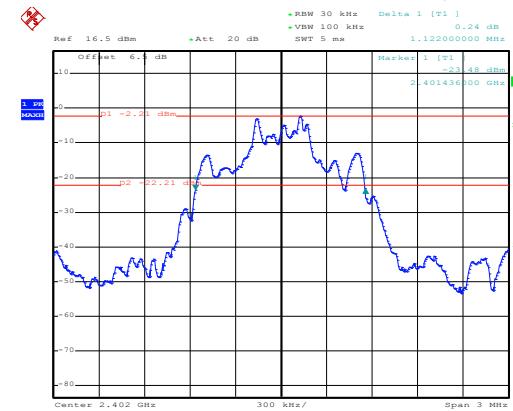
Test channel	20dB Occupy Bandwidth (kHz)		
	GFSK	$\pi/4$ -DQPSK	8DPSK
Lowest	832	1122	1164
Middle	828	1122	1170
Highest	826	1122	1170

Test plot as follows:

Modulation mode: GFSK

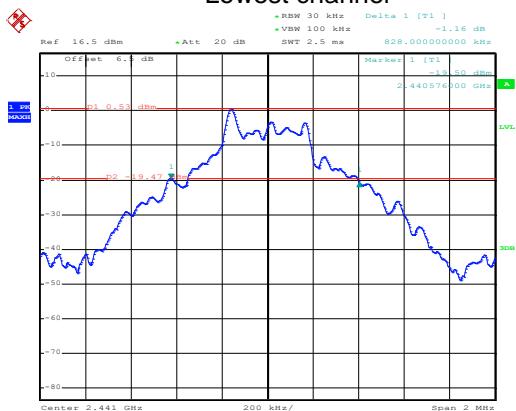


Modulation mode: $\pi/4$ -DQPSK



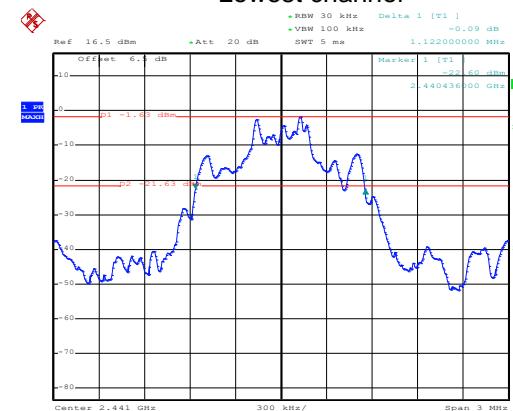
Date: 16.OCT.2017 17:00:52

Lowest channel



Date: 16.OCT.2017 16:57:19

Lowest channel



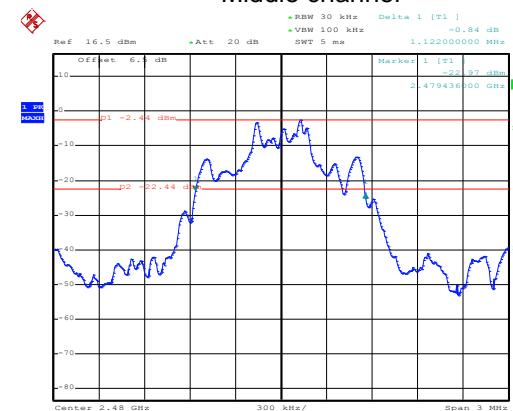
Date: 16.OCT.2017 17:00:19

Middle channel



Date: 16.OCT.2017 16:57:53

Middle channel



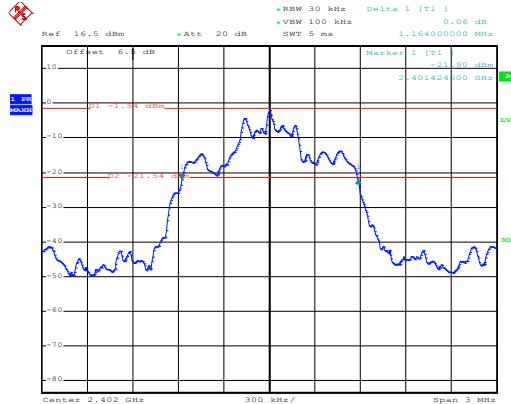
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Highest channel

Date: 16.OCT.2017 16:58:33

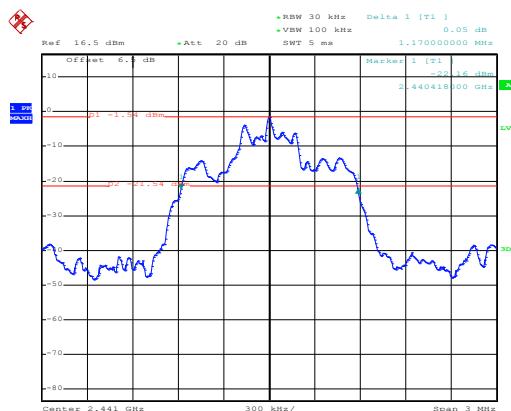
Highest channel

Modulation mode: 8DPSK



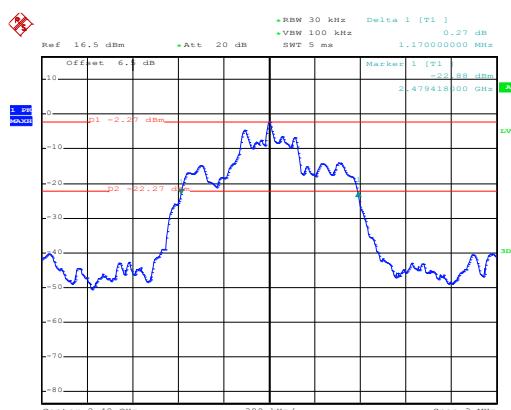
Date: 16.OCT.2017 16:56:02

Lowest channel



Date: 16.OCT.2017 15:28:36

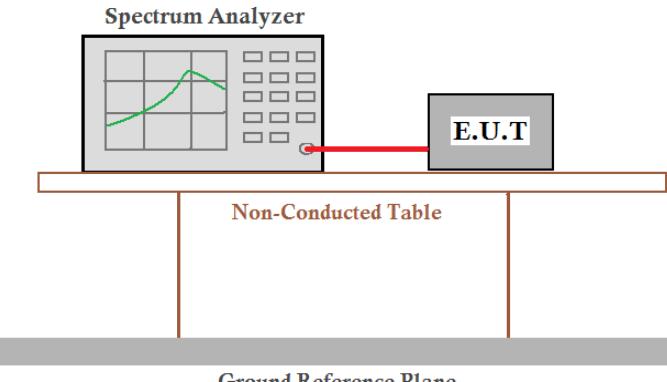
Middle channel



Date: 16.OCT.2017 15:28:06

Highest channel

6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 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 5.8 for details
Test mode:	Hopping mode
Test results:	Pass

Measurement Data:

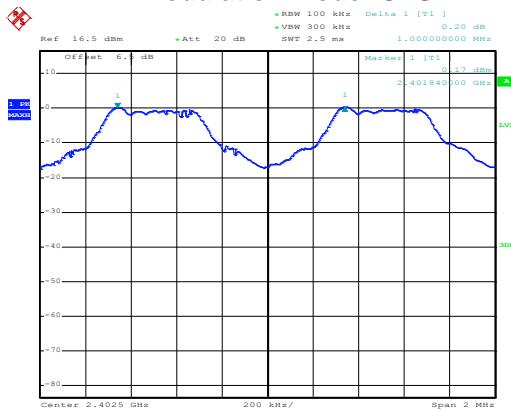
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
GFSK			
Lowest	1000	832.00	Pass
Middle	1000	832.00	Pass
Highest	1000	832.00	Pass
$\pi/4$ -DQPSK mode			
Lowest	1000	748.00	Pass
Middle	1000	748.00	Pass
Highest	1000	748.00	Pass
8DPSK mode			
Lowest	1000	780.00	Pass
Middle	1008	780.00	Pass
Highest	1004	780.00	Pass

Note: According to section 6.4

Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	832	832.00
$\pi/4$ -DQPSK	1122	748.00
8DPSK	1170	780.00

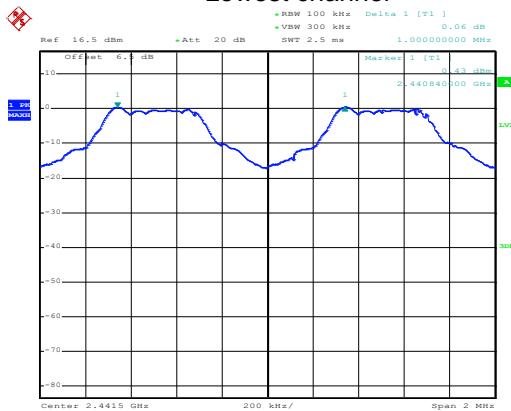
Test plot as follows:

Modulation mode: GFSK



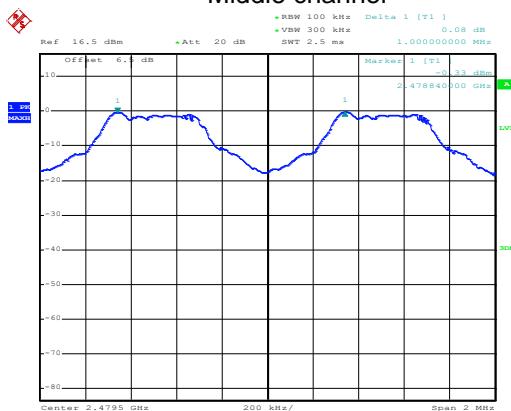
Date: 16.OCT.2017 17:04:46

Lowest channel



Date: 16.OCT.2017 17:05:22

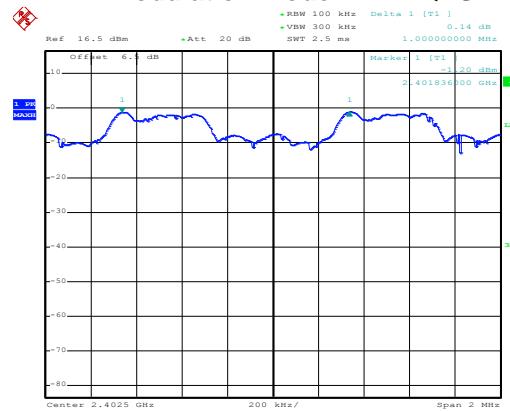
Middle channel



Date: 16.OCT.2017 17:05:53

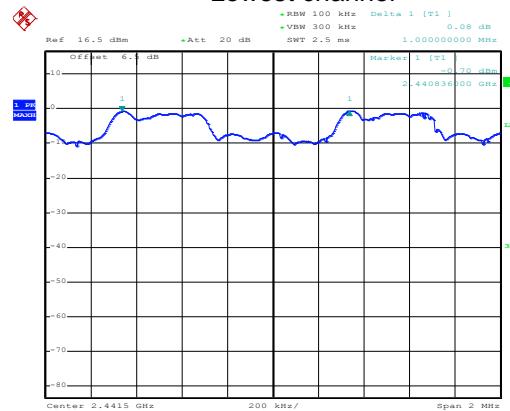
Highest channel

Modulation mode: $\pi/4$ -DQPSK



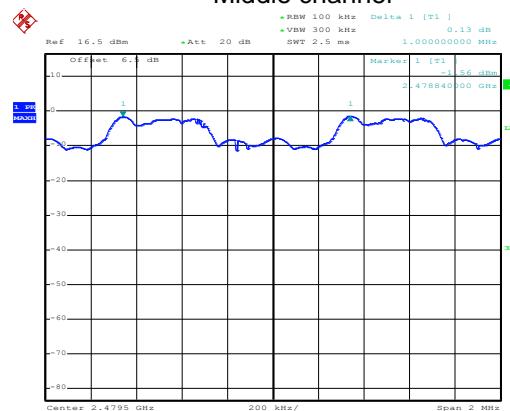
Date: 16.OCT.2017 17:07:52

Lowest channel



Date: 16.OCT.2017 17:07:17

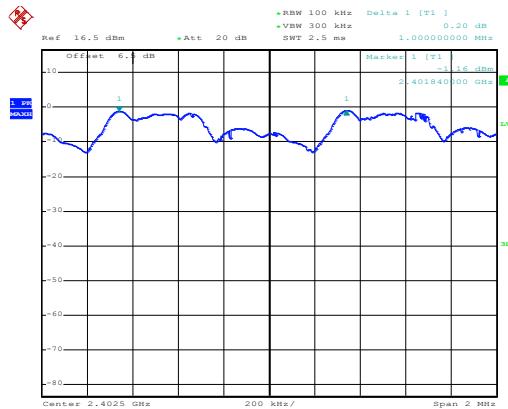
Middle channel



Date: 16.OCT.2017 17:06:38

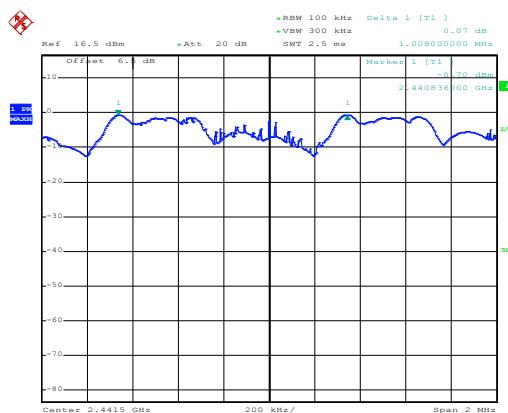
Highest channel

Modulation mode: 8DPSK



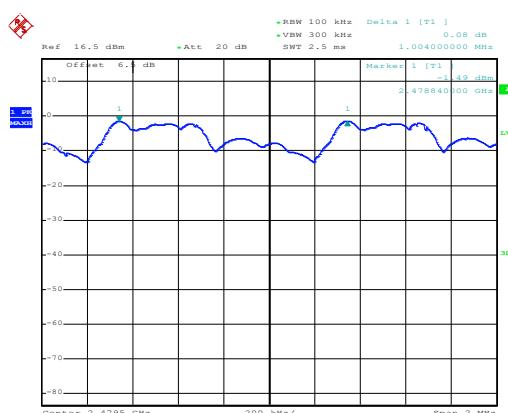
Date: 16.OCT.2017 17:08:36

Lowest channel



Date: 16.OCT.2017 17:09:45

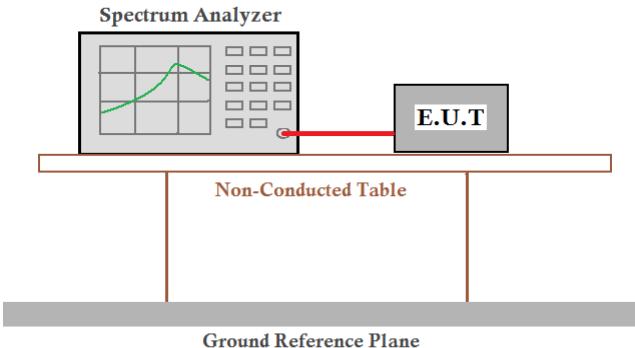
Middle channel



Date: 16.OCT.2017 17:10:43

Highest channel

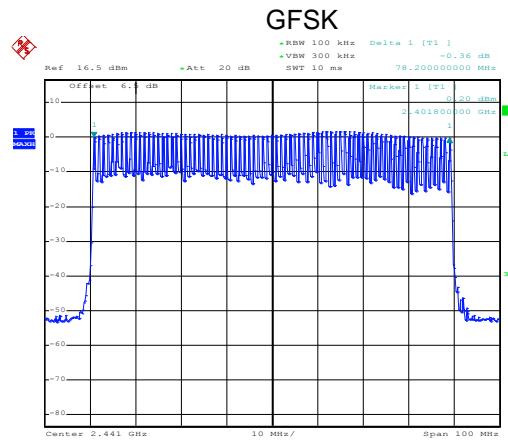
6.6 Hopping Channel Number

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 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 positioned at the top left, showing a green waveform on its screen. A red line connects it to a black rectangular box labeled "E.U.T". This "E.U.T" box rests on a light-colored 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 5.8 for details
Test mode:	Hopping mode
Test results:	Pass

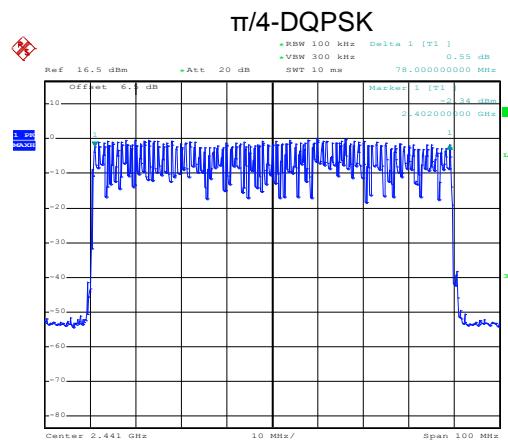
Measurement Data:

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

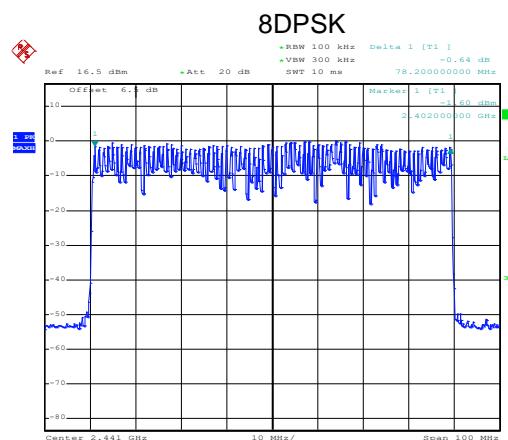
Test plot as follows:



Date: 16.OCT.2017 17:27:12

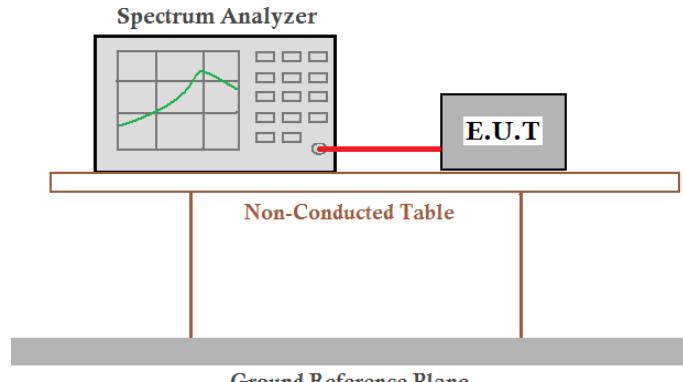


Date: 16.OCT.2017 17:16:32



Date: 16.OCT.2017 17:14:35

6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 and KDB DA00-705
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	
Test Instruments:	Refer to section 5.8 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	0.26688		
	DH5	0.31275		
$\pi/4$ -DQPSK	2-DH1	0.12672	0.4	Pass
	2-DH3	0.26592		
	2-DH5	0.31296		
8DPSK	3-DH1	0.12800	0.4	Pass
	3-DH3	0.26656		
	3-DH5	0.31168		

Note:

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

Calculation Formula: Dwell time = Ton time per hop * Hopping numbers * Period

For example:

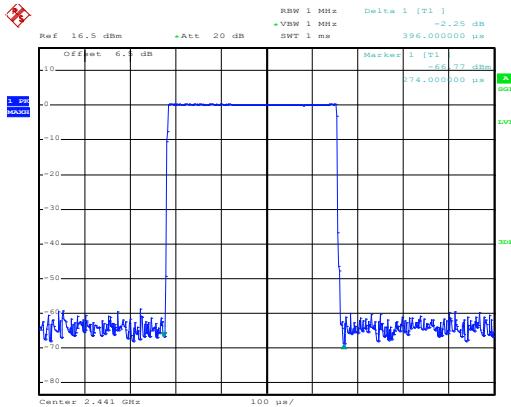
DH1 time slot=0.396*(1600/ (2*79)) * 31.6=126.72ms

DH3 time slot=1.668*(1600/ (4*79)) * 31.6=266.88ms

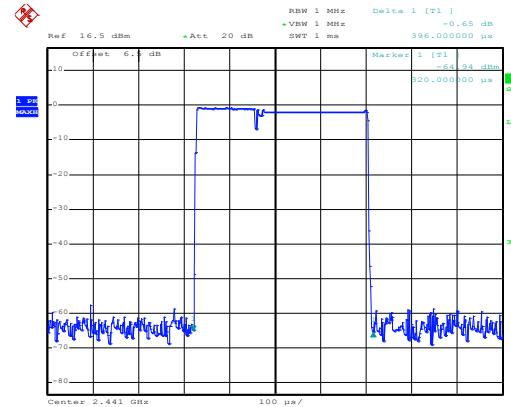
DH5 time slot=2.932*(1600/ (6*79)) * 31.6=312.75ms

Test plot as follows:

Modulation mode: GFSK

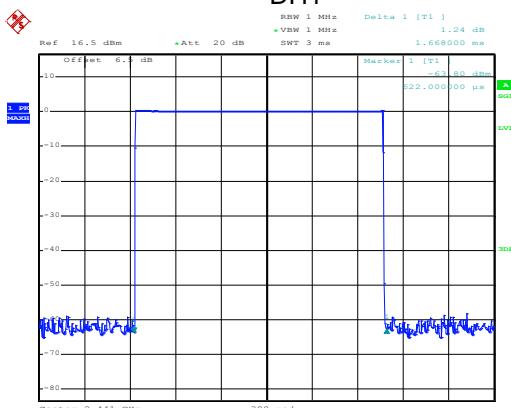


Modulation mode: $\pi/4$ -DQPSK

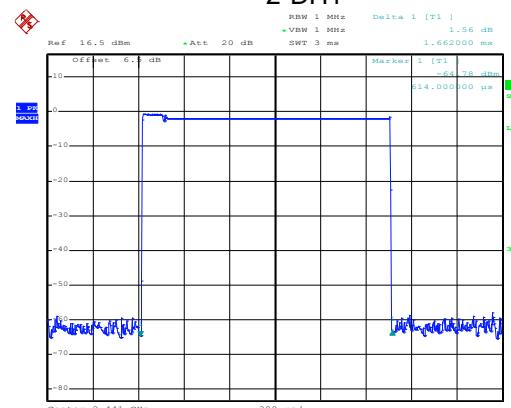


Date: 16.OCT.2017 17:41:02

DH1

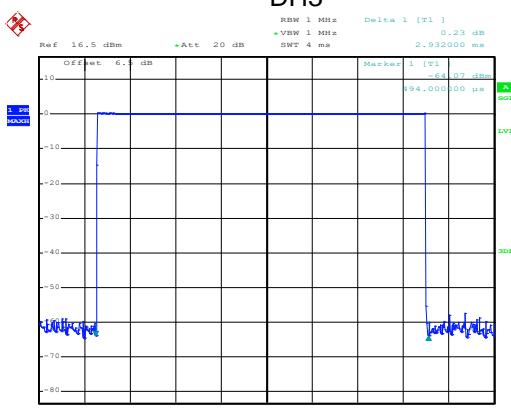


2-DH1

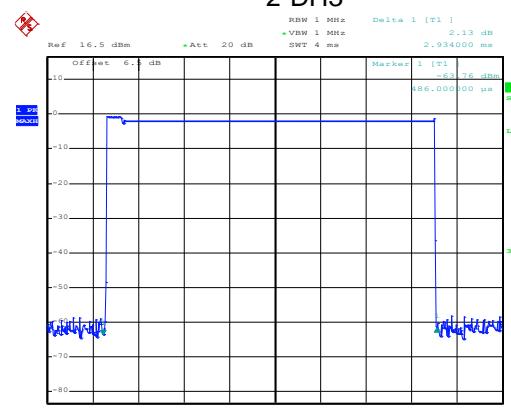


Date: 16.OCT.2017 17:42:55

DH3



2-DH3



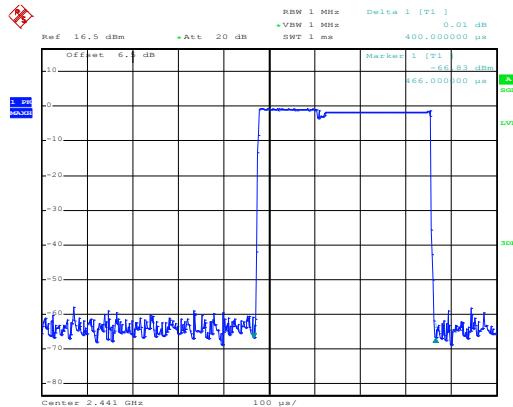
Date: 16.OCT.2017 17:43:18

DH5

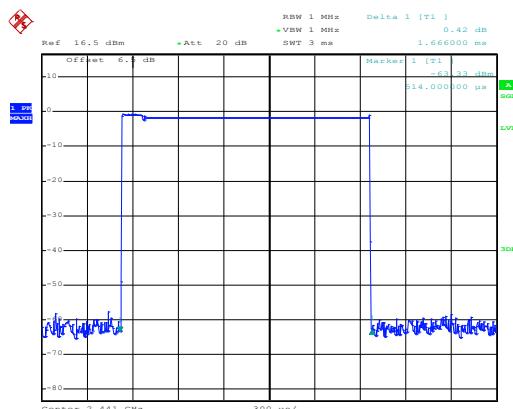
Date: 16.OCT.2017 17:45:07

2-DH5

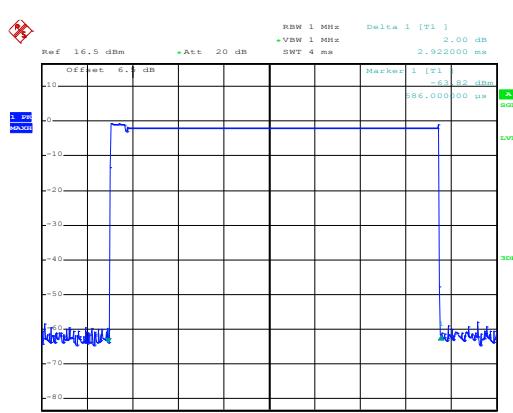
Modulation mode: 8DPSK



3-DH1



3-DH3



3-DH5

6.8 Pseudorandom Frequency Hopping Sequence

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

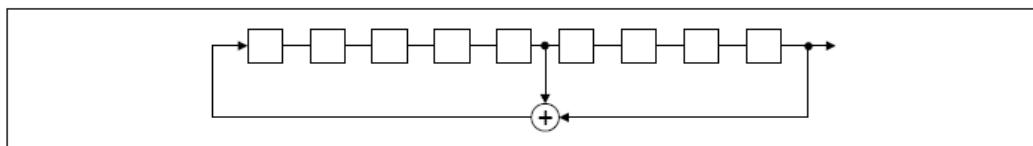
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

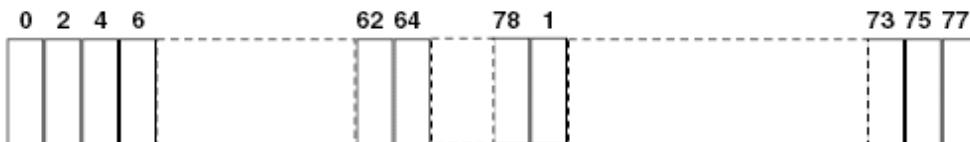
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

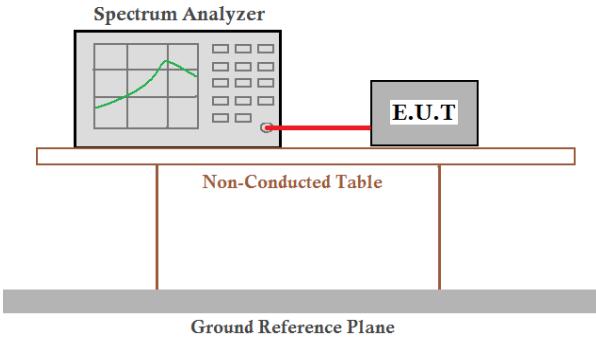


Each frequency used equally on the average by each transmitter.

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

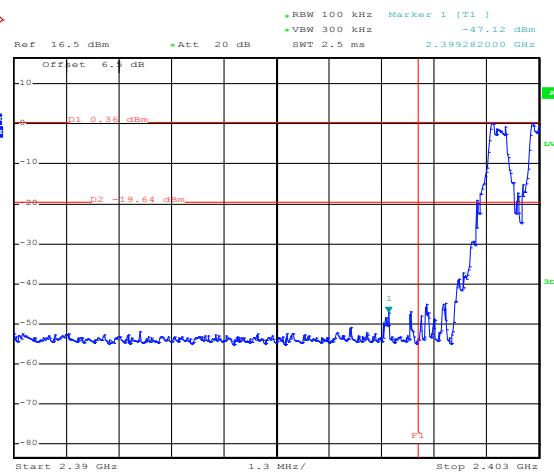
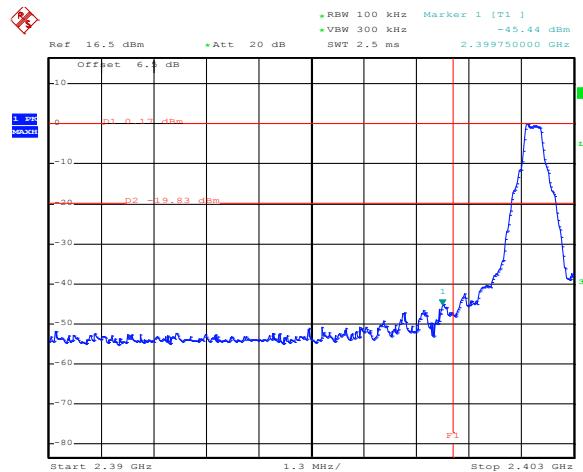
6.9.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 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>The diagram illustrates the test setup for conducted emission. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a cable. The E.U.T is placed on a Non-Conducted Table. The entire setup is positioned above a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass

Test plot as follows:

GFSK

Lowest Channel



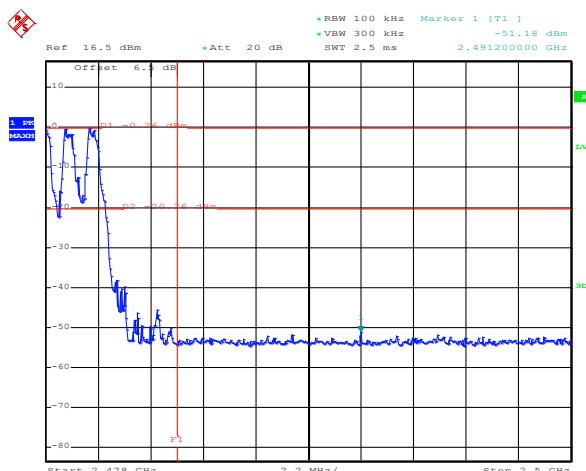
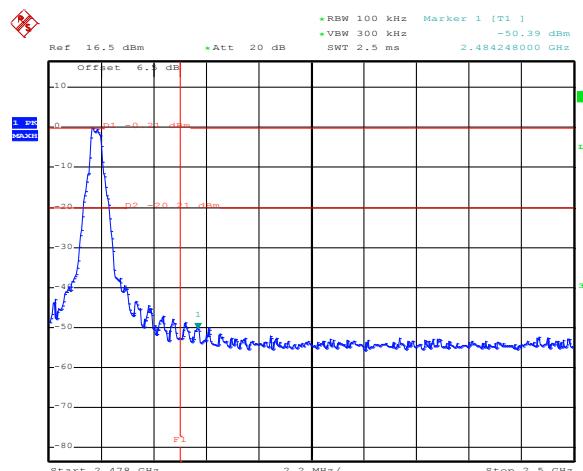
Date: 16.OCT.2017 17:28:57

No-hopping mode

Date: 16.OCT.2017 17:28:13

Hopping mode

Highest Channel



Date: 16.OCT.2017 17:36:18

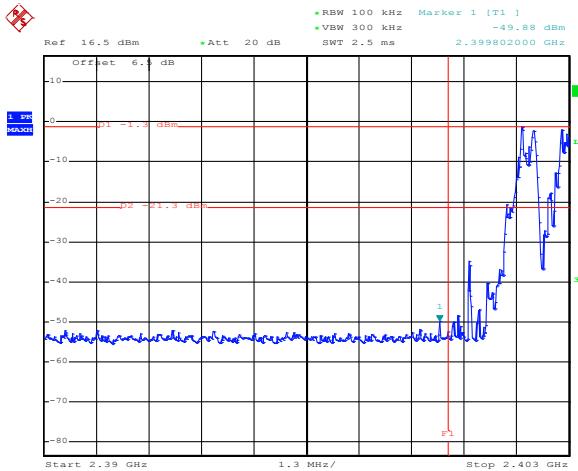
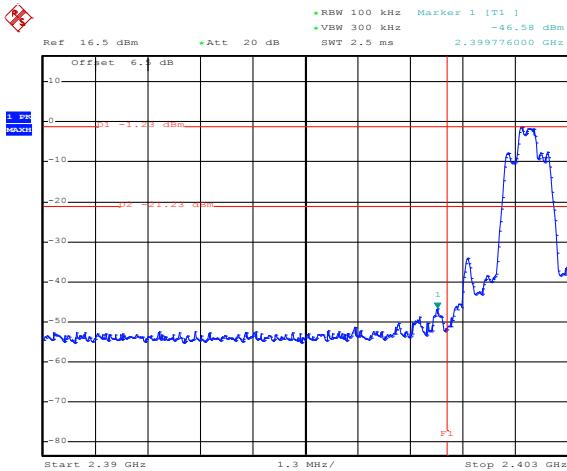
No-hopping mode

Date: 16.OCT.2017 17:37:48

Hopping mode

$\pi/4$ -DQPSK

Lowest Channel



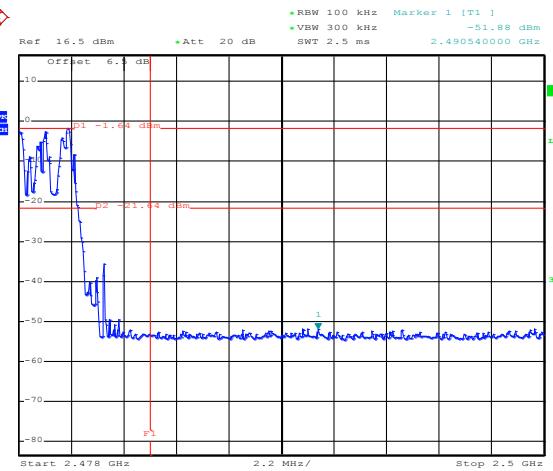
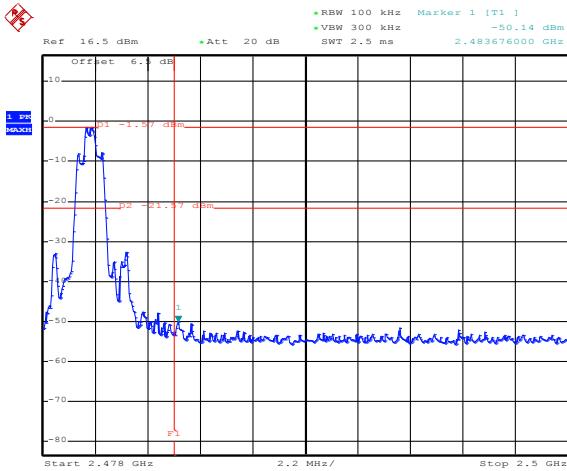
Date: 16.OCT.2017 17:29:50

No-hopping mode

Date: 16.OCT.2017 17:30:21

Hopping mode

Highest Channel



Date: 16.OCT.2017 17:35:47

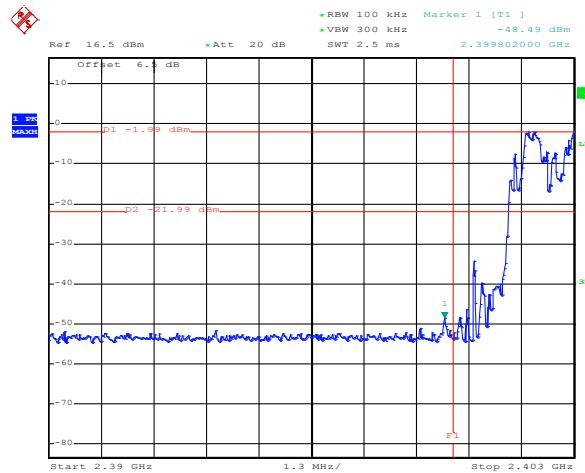
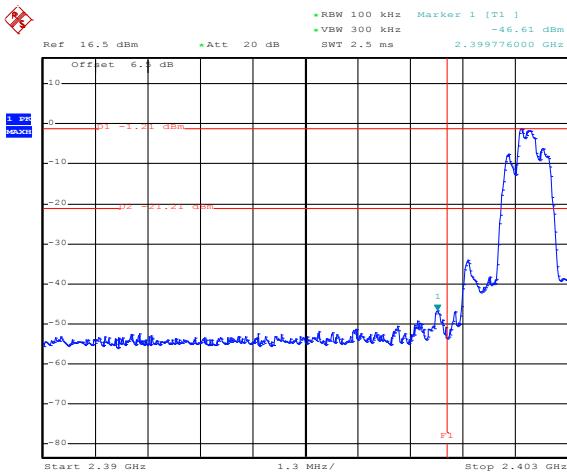
No-hopping mode

Date: 16.OCT.2017 17:35:20

Hopping mode

8DPSK

Lowest Channel



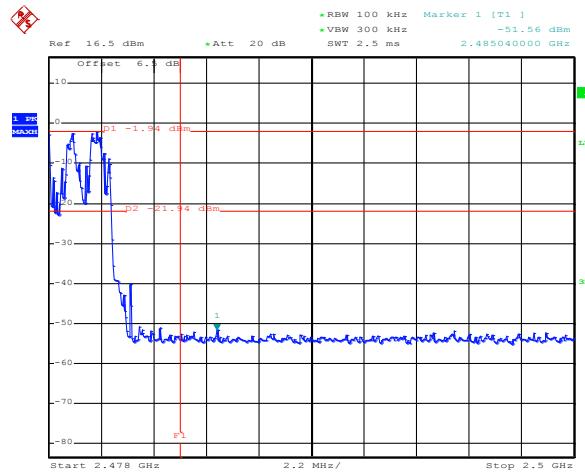
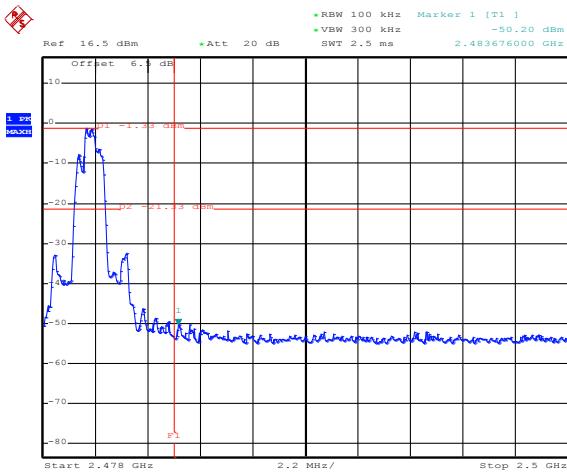
Date: 16.OCT.2017 17:32:11

No-hopping mode

Date: 16.OCT.2017 17:31:49

Hopping mode

Highest Channel



Date: 16.OCT.2017 17:33:03

No-hopping mode

Date: 16.OCT.2017 17:33:58

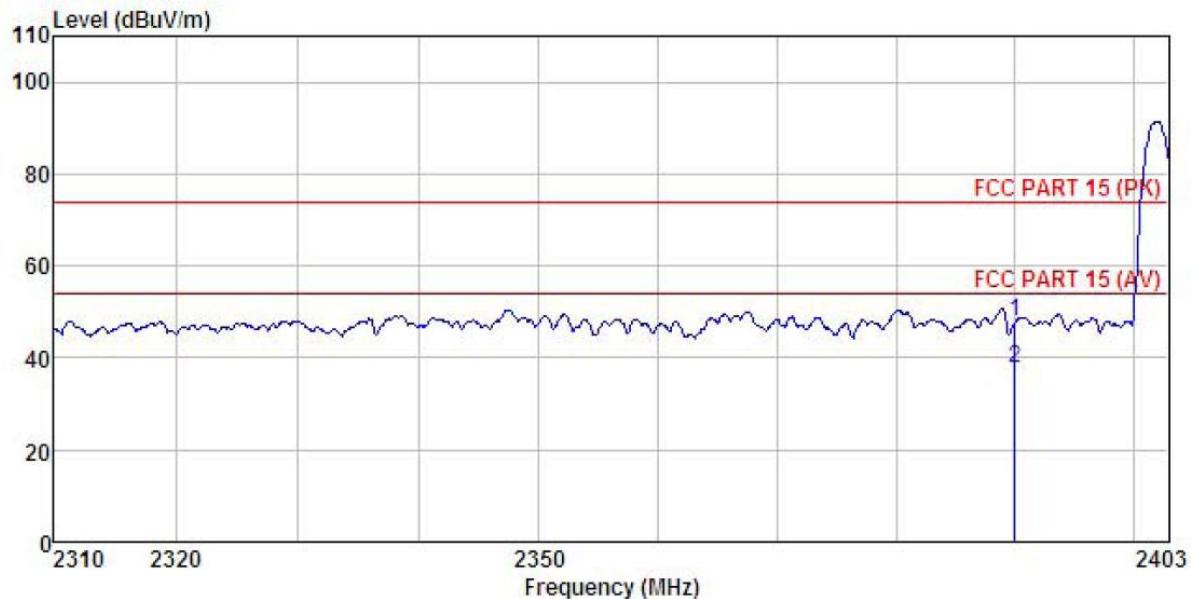
Hopping mode

6.9.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205										
Test Method:	ANSI C63.10: 2013										
Test Frequency Range:	2.3GHz to 2.5GHz										
Test Distance:	3m										
Receiver setup:	Frequency	Detector	RBW	VBW	Remark						
	Above 1GHz	Peak	1MHz	3MHz	Peak Value						
Limit:	Frequency	Limit (dBuV/m @3m)		Remark							
	Above 1GHz	54.00		Average Value							
Test setup:											
Test Procedure:	<ol style="list-style-type: none"> 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 										
Test Instruments:	Refer to section 5.8 for details										
Test mode:	Non-hopping mode										
Test results:	Passed										

GFSK mode**Test channel: Lowest**

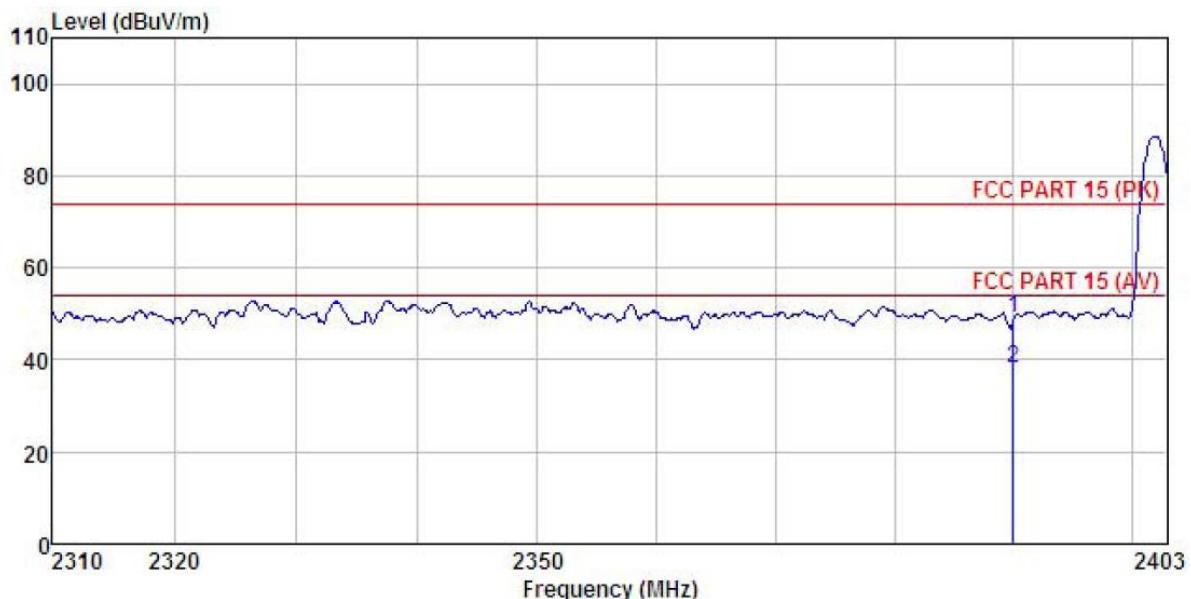
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : LTE mobile phone
Model : N5701L
Test mode : DH1 - L Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
					Level	Factor		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2390.000	17.67	25.45	4.69	0.00	47.81	74.00	-26.19	Peak
2 2390.000	7.75	25.45	4.69	0.00	37.89	54.00	-16.11	Average

Vertical:

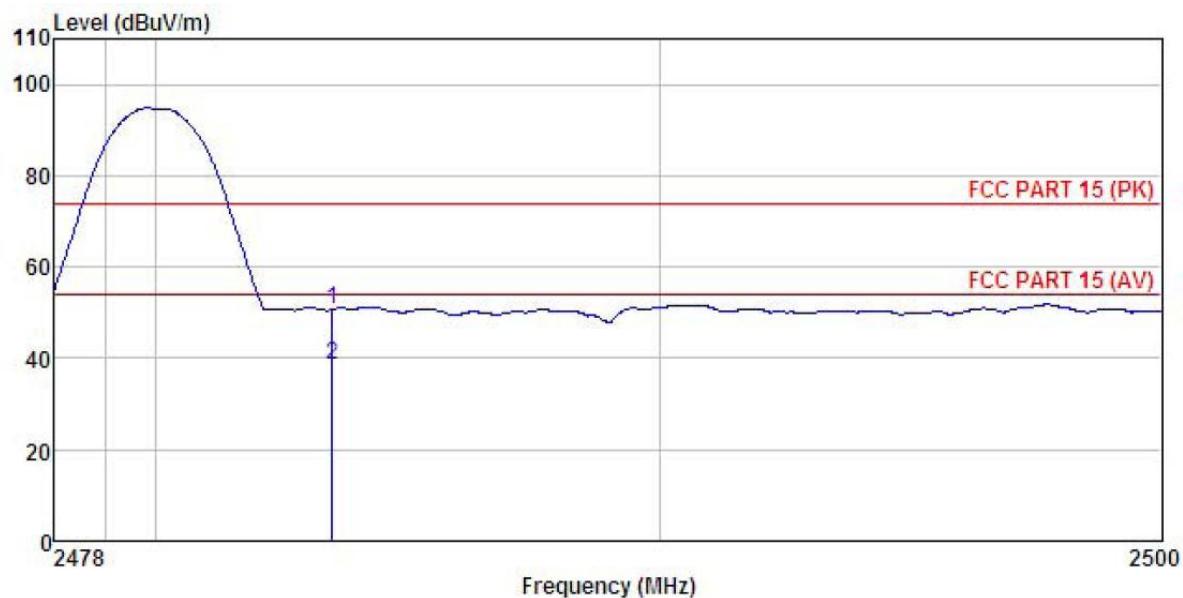


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5701L
Test mode : DH1 - L Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
REMARK :

	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	18.88	25.45	4.69	0.00	49.02	74.00 -24.98 Peak
2	2390.000	7.84	25.45	4.69	0.00	37.98	54.00 -16.02 Average

Test channel: Highest

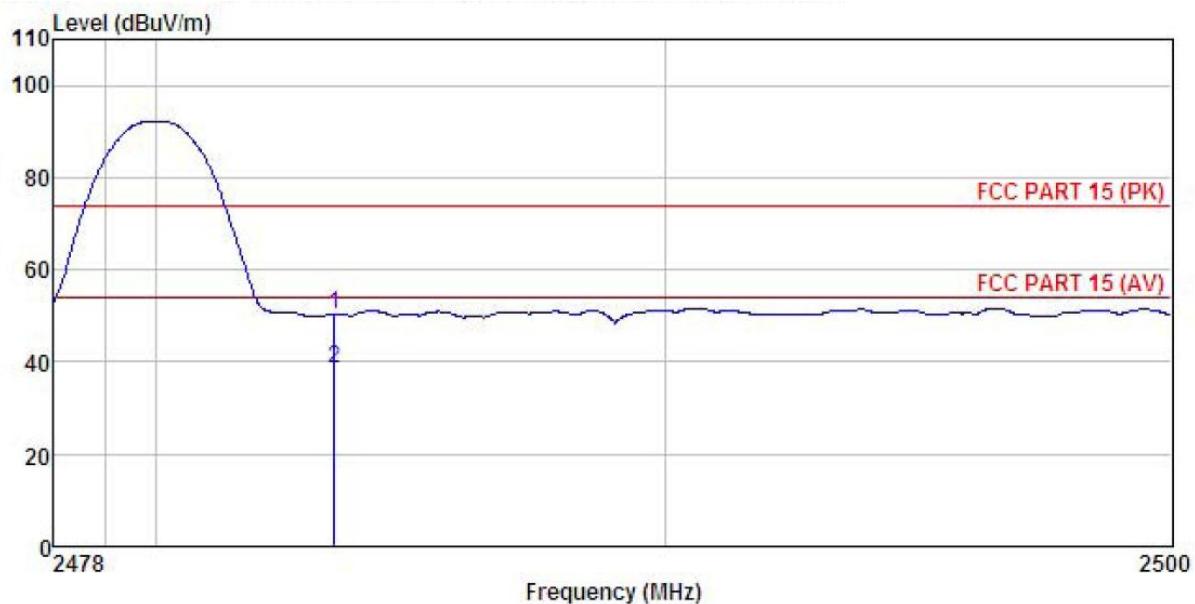
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : LTE mobile phone
Model : N5701L
Test mode : DH1 - H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: Carey
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	2483.500	20.33	25.66	4.81	0.00	50.80 74.00 -23.20 Peak
2	2483.500	8.02	25.66	4.81	0.00	38.49 54.00 -15.51 Average

Vertical:



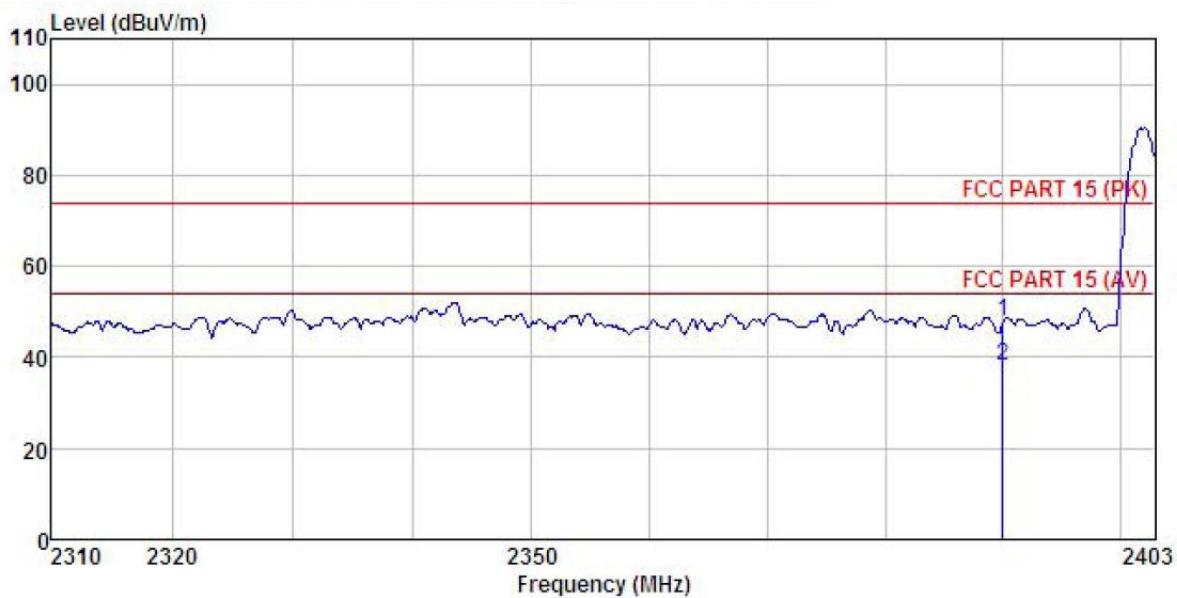
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5701L
Test mode : DH1 - H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2483.500	19.95	25.66	4.81	0.00	50.42	74.00 -23.58 Peak
2	2483.500	8.05	25.66	4.81	0.00	38.52	54.00 -15.48 Average

$\pi/4$ -DQPSK mode

Test channel: Lowest

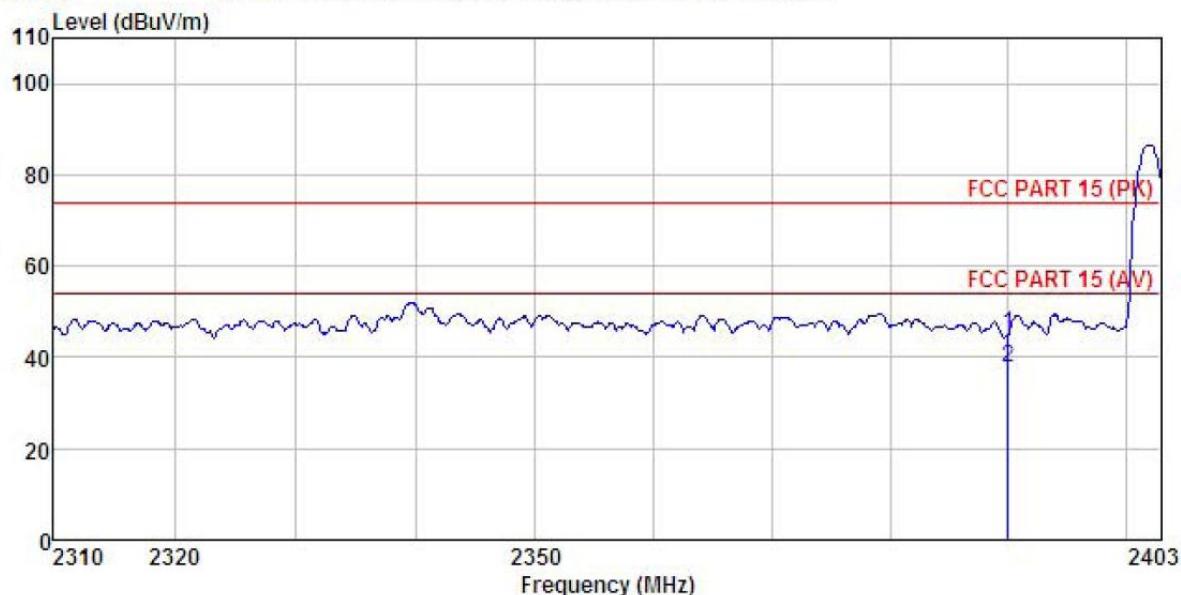
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : LTE mobile phone
Model : N5701L
Test mode : 2DH1 - L Mode
Power Rating : AC 120W/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
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	2390.000	17.59	25.45	4.69	0.00	47.73	74.00 -26.27 Peak
2	2390.000	7.82	25.45	4.69	0.00	37.96	54.00 -16.04 Average

Vertical:

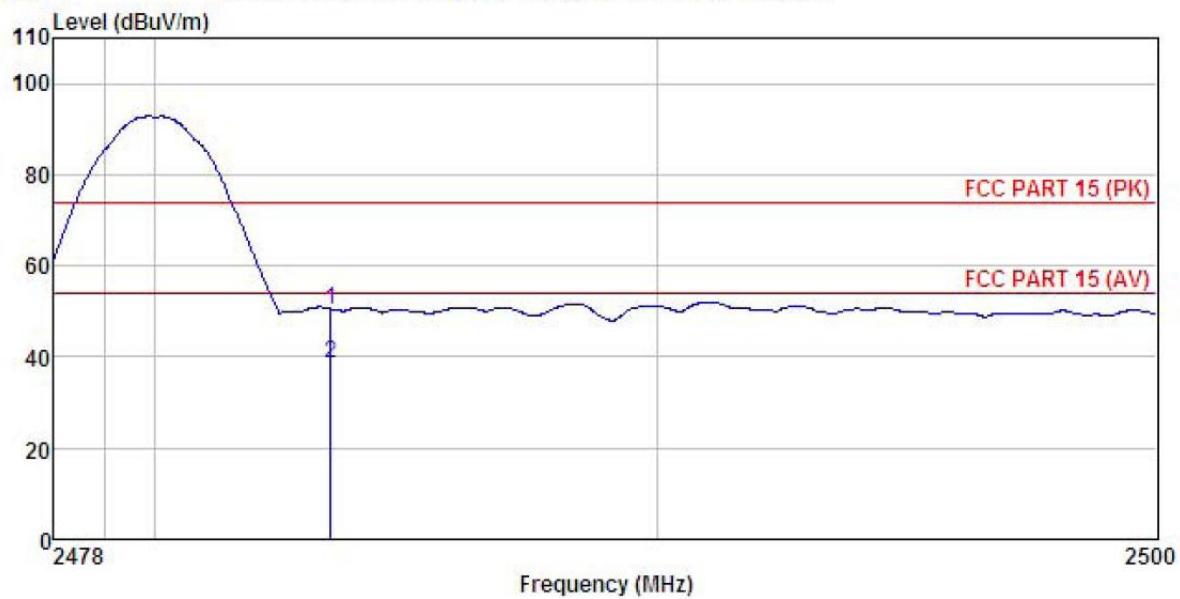


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5701L
Test mode : 2DH1 - L Mode
Power Rating : AC 120W/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
REMARK :

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line Limit	Over Remark
	MHz	Level Factor	Loss Factor	dB	dBuV/m	dBuV/m	dB
1	2390.000	15.09	25.45	4.69	0.00	45.23	74.00 -28.77 Peak
2	2390.000	7.80	25.45	4.69	0.00	37.94	54.00 -16.06 Average

Test channel: Highest

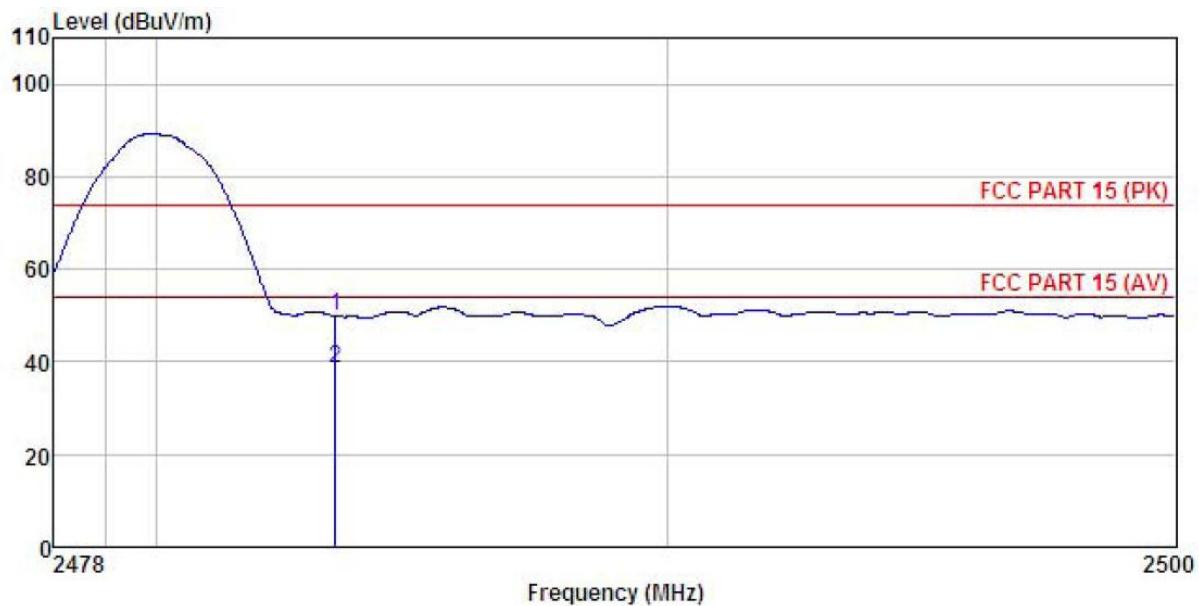
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : LTE mobile phone
Model : N5701L
Test mode : 2DH1 - H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
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	20.00	25.66	4.81	0.00	50.47
2	2483.500	8.08	25.66	4.81	0.00	38.55
					54.00	-23.53 Peak
					54.00	-15.45 Average

Vertical:

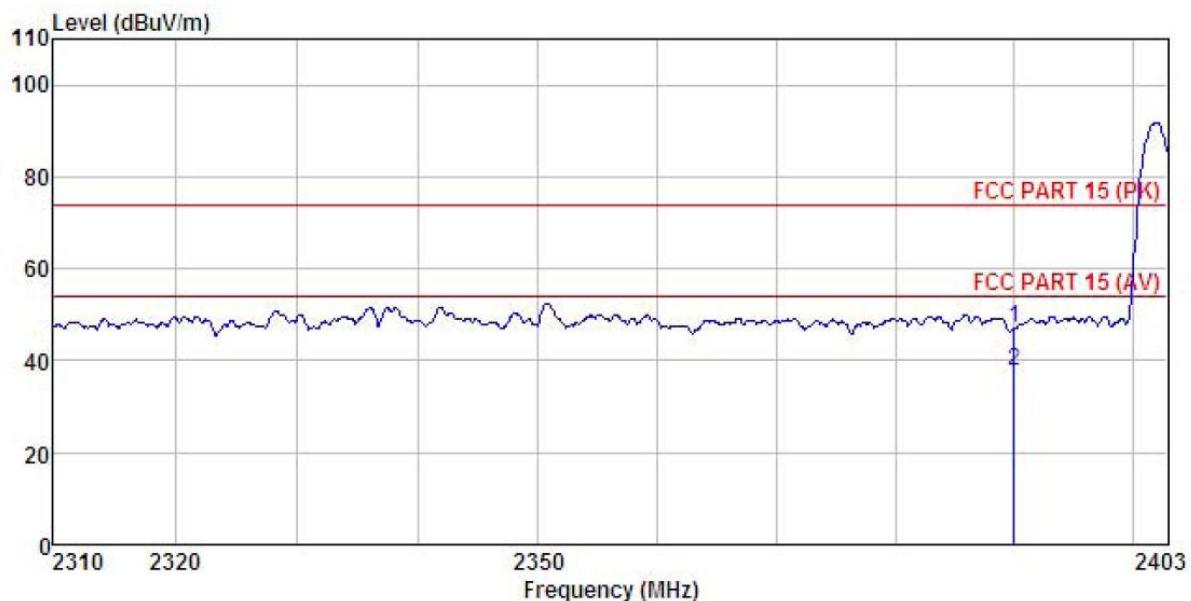


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5701L
Test mode : 2DH1 - H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: Carey
REMARK :

	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	19.36	25.66	4.81	0.00	49.83	74.00 -24.17 Peak
2	2483.500	8.13	25.66	4.81	0.00	38.60	54.00 -15.40 Average

8DPSK mode**Test channel: Lowest**

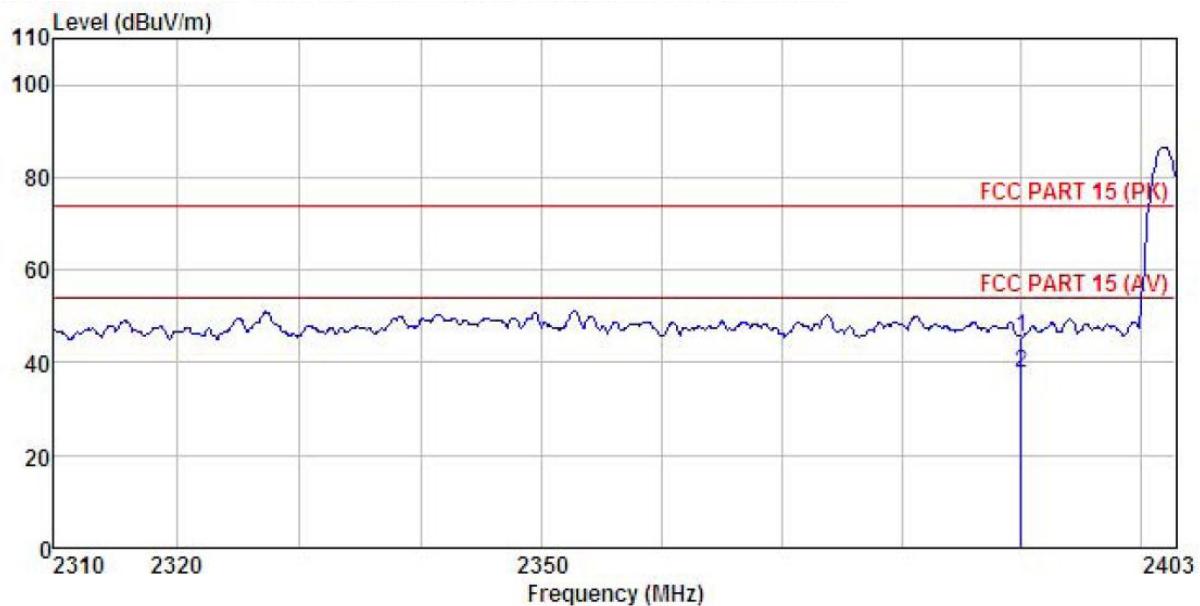
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : LTE mobile phone
Model : N5701L
Test mode : 3DH1 - L Mode
Power Rating : AC 120W/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	16.80	25.45	4.69	0.00	46.94	74.00 -27.06 Peak
2	2390.000	7.78	25.45	4.69	0.00	37.92	54.00 -16.08 Average

Vertical:

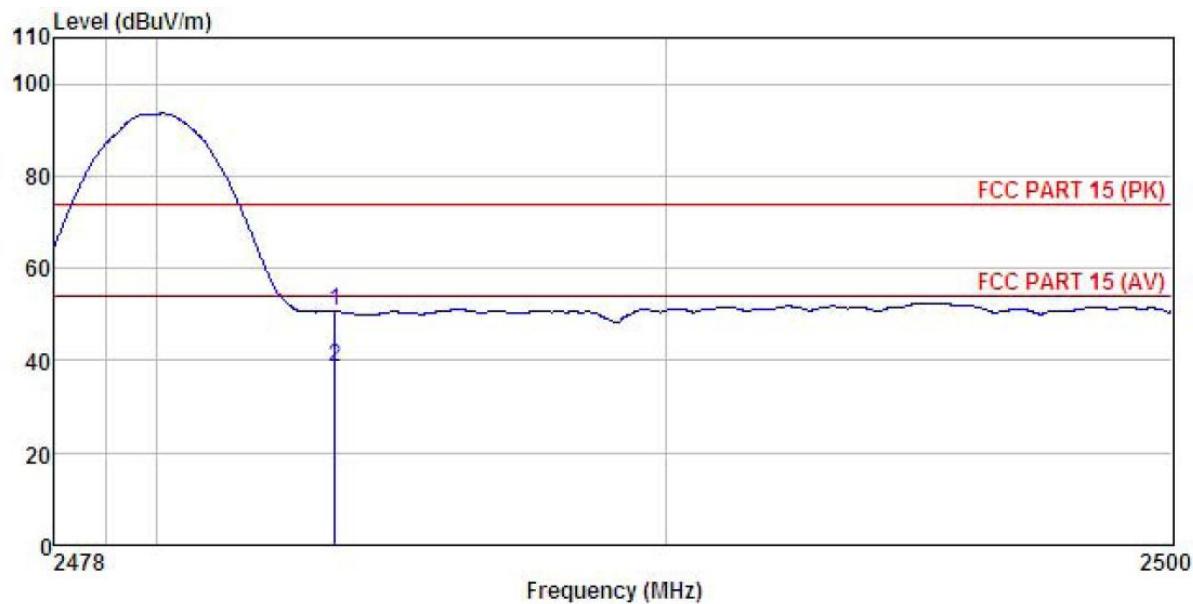


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5701L
Test mode : 3DH1 - L Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: Carey
REMARK :

	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	2390.000	15.43	25.45	4.69	0.00	45.57	74.00 -28.43 Peak
2	2390.000	7.76	25.45	4.69	0.00	37.90	54.00 -16.10 Average

Test channel: Highest

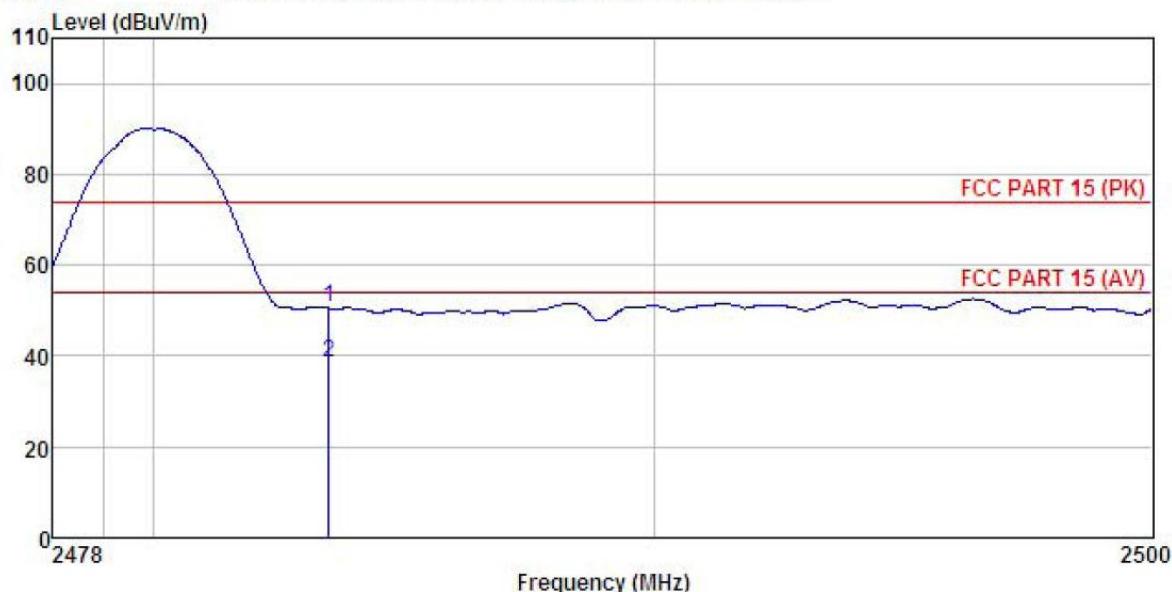
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : LTE mobile phone
Model : N5701L
Test mode : 3DH1 - H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
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	20.28	25.66	4.81	0.00	50.75	74.00 -23.25 Peak
2	2483.500	8.17	25.66	4.81	0.00	38.64	54.00 -15.36 Average

Vertical:



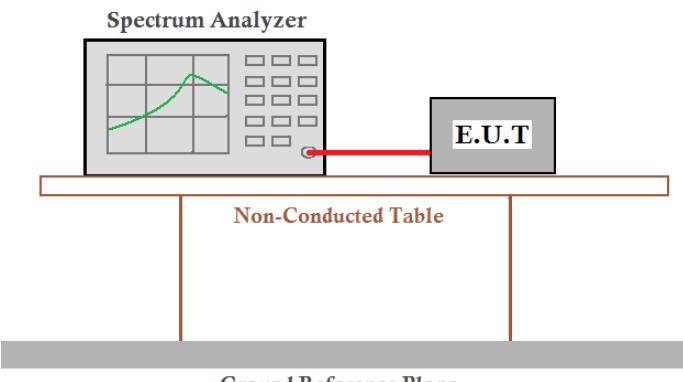
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5701L
Test mode : 3DH1 - H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: Carey

REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level Factor	Loss Factor	Level	Line	Line	Remark
-----	MHz	dBuV	dB/m	dB	dB	dBuV/m
1	2483.500	20.10	25.66	4.81	0.00	50.57 74.00 -23.43 Peak
2	2483.500	8.17	25.66	4.81	0.00	38.64 54.00 -15.36 Average

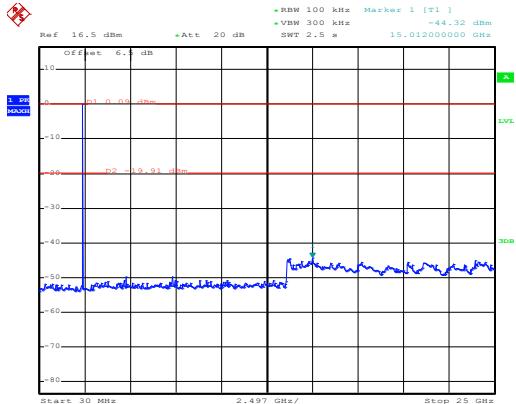
6.10 Spurious Emission

6.10.1 Conducted Emission Method

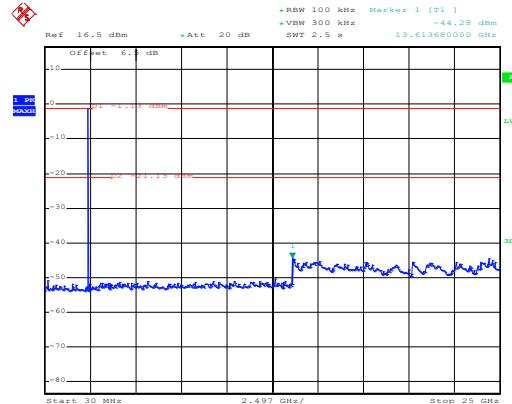
Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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 5.8 for details
Test mode:	Non-hopping mode
Test results:	Pass

Test plot as follows:

GFSK Lowest channel

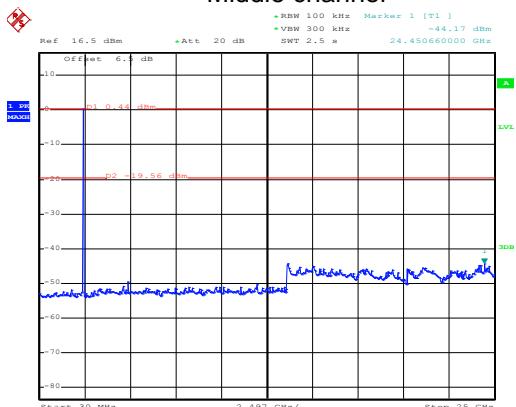


$\pi/4$ -DQPSK Lowest channel

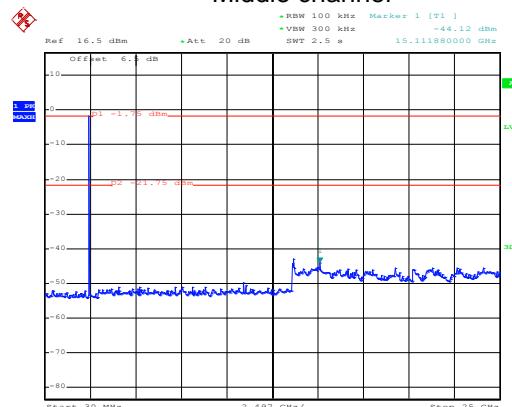


Date: 16.OCT.2017 17:48:15

30MHz~25GHz Middle channel

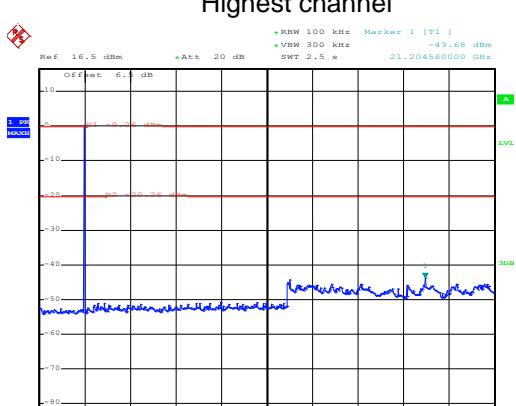


30MHz~25GHz Middle channel

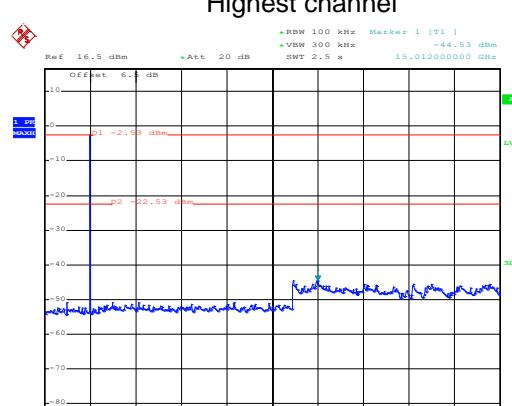


Date: 16.OCT.2017 17:49:25

30MHz~25GHz Highest channel



30MHz~25GHz Highest channel



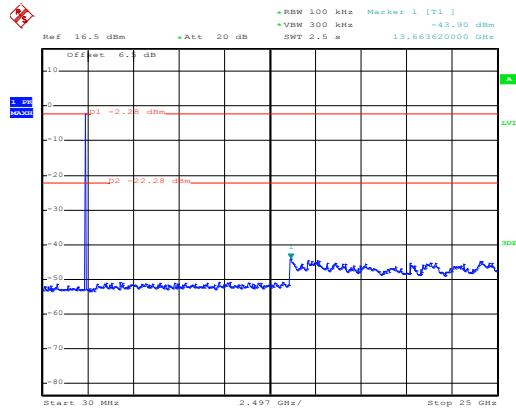
Date: 16.OCT.2017 17:50:22

Date: 16.OCT.2017 17:51:15

30MHz~25GHz

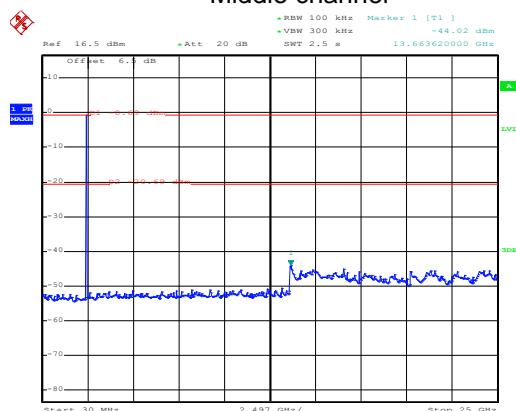
30MHz~25GHz

8DPSK Lowest channel



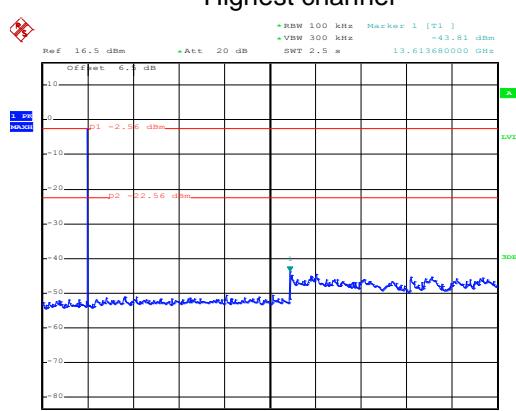
Date: 16.OCT.2017 17:56:20

30MHz~25GHz Middle channel



Date: 16.OCT.2017 17:57:09

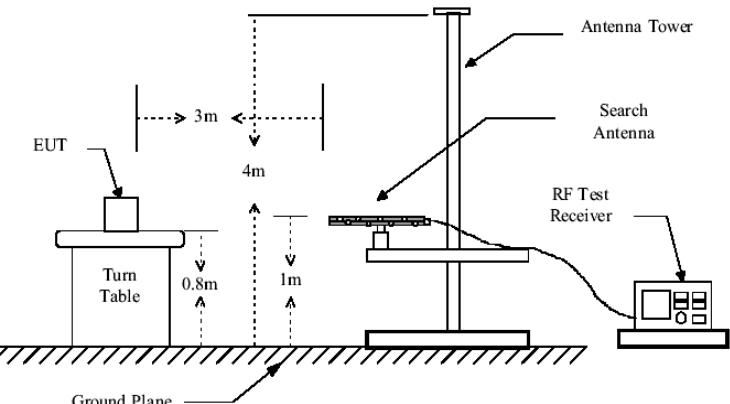
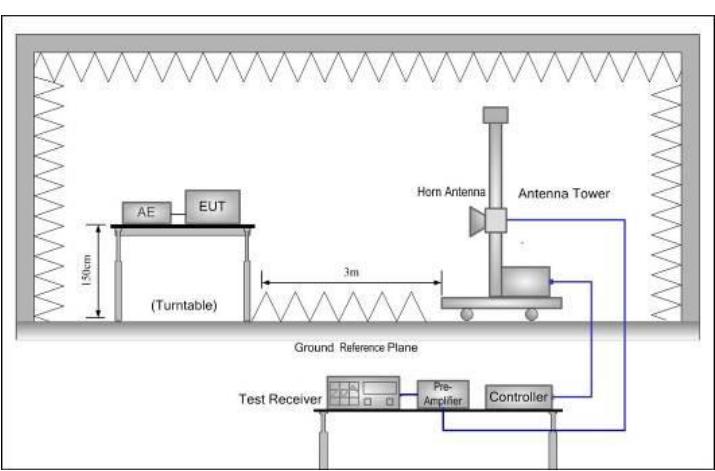
30MHz~25GHz Highest channel



Date: 16.OCT.2017 17:58:51

30MHz~25GHz

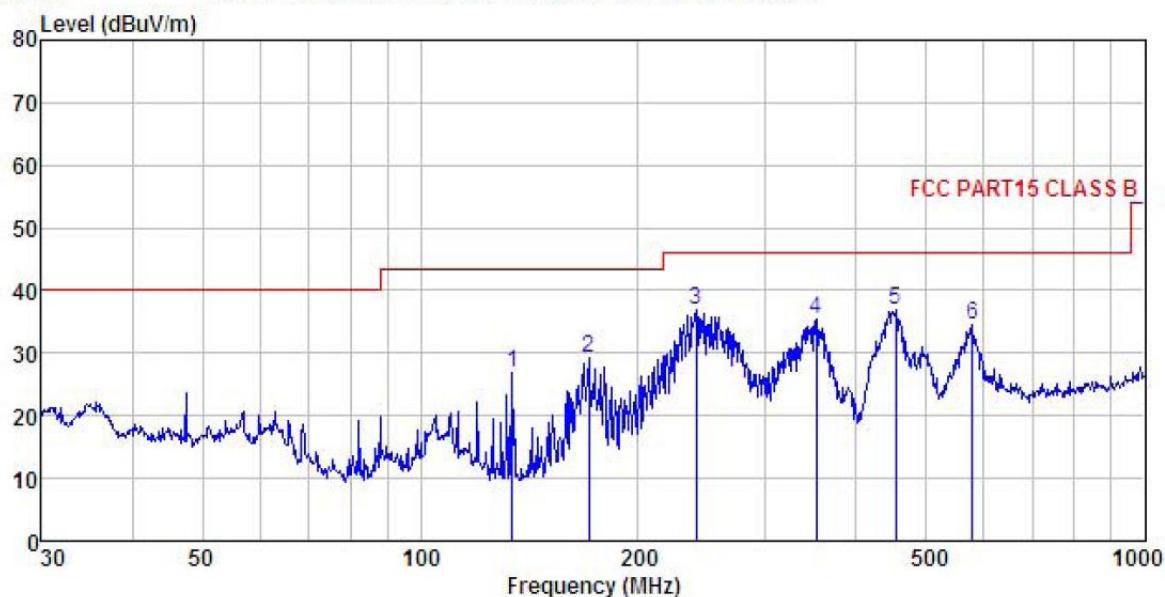
6.10.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	9 kHz to 25 GHz				
Test 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
		RMS	1MHz	3MHz	Average Value
Limit:	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	
		74.0		Peak Value	
Test setup:	Below 1GHz  Above 1GHz 				

Test Procedure:	<ol style="list-style-type: none">1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Non-hopping mode
Test results:	Pass
Remark:	<ol style="list-style-type: none">1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.2. 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.

Measurement data:**Below 1GHz**

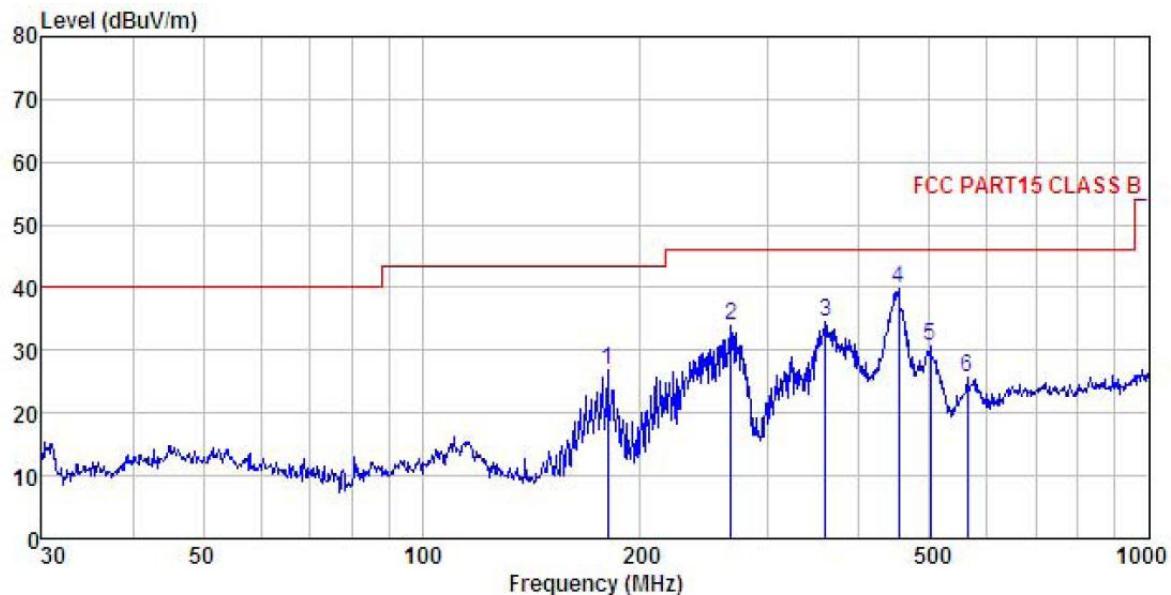
Vertical:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) VERTICAL
EUT : LTE mobile phone
Model : N5701L
Test mode : BT Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit Line	Over Limit	Remark
	Level	Factor	Loss	Factor			
	MHz	dBuV	dB	dB	dBuV/m	dBuV/m	dB
1	134.088	45.26	8.48	2.33	29.31	26.76	43.50 -16.74 QP
2	170.793	46.53	9.00	2.66	29.04	29.15	43.50 -14.35 QP
3	239.987	50.77	11.85	2.82	28.59	36.85	46.00 -9.15 QP
4	351.708	46.11	14.77	3.10	28.57	35.41	46.00 -10.59 QP
5	452.720	46.96	15.58	3.22	28.88	36.88	46.00 -9.12 QP
6	578.670	41.58	18.08	3.92	29.01	34.57	46.00 -11.43 QP

Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) HORIZONTAL
EUT : LTE mobile phone
Model : N5701L
Test mode : BT Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	MHz	Level	Factor	Loss	Level	Line	Limit
1	180.017	43.48	9.50	2.73	28.97	26.74	43.50 -16.76 QP
2	266.609	47.02	12.47	2.85	28.51	33.83	46.00 -12.17 QP
3	359.186	45.34	14.66	3.10	28.60	34.50	46.00 -11.50 QP
4	452.720	49.90	15.58	3.22	28.88	39.82	46.00 -6.18 QP
5	501.179	39.29	16.70	3.63	28.96	30.66	46.00 -15.34 QP
6	562.662	33.22	17.52	3.90	29.06	25.58	46.00 -20.42 QP

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	46.58	30.85	6.80	41.81	42.42	74.00	-31.58	Vertical
4804.00	47.05	30.85	6.80	41.81	42.89	74.00	-31.11	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	36.08	30.85	6.80	41.81	31.92	54.00	-22.08	Vertical
4804.00	37.15	30.85	6.80	41.81	32.99	54.00	-21.01	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	31.20	6.86	41.84	42.97	74.00	-31.03	Vertical
4882.00	46.00	31.20	6.86	41.84	42.22	74.00	-31.78	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	36.97	31.20	6.86	41.84	33.19	54.00	-20.81	Vertical
4882.00	36.22	31.20	6.86	41.84	32.44	54.00	-21.56	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	46.45	31.63	6.91	41.87	43.12	74.00	-30.88	Vertical
4960.00	46.83	31.63	6.91	41.87	43.50	74.00	-30.50	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	36.43	31.63	6.91	41.87	33.10	54.00	-20.90	Vertical
4960.00	36.74	31.63	6.91	41.87	33.41	54.00	-20.59	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.