

FCC REPORT

(WIFI)

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.: N5501L, A5L

Trade mark: NUU

FCC ID: 2ADINN5501L

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

Date of sample receipt: 20 Jun., 2018

Date of Test: 20 Jun., to 16 Jul., 2018

Date of report issued: 25 Jul., 2018

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	25 Jul., 2018	Original

Tested by:

YT Yang
Test Engineer

Date:

25 Jul., 2018

Reviewed by:

Wimer Zhang
Project Engineer

Date:

25 Jul., 2018

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY.....	4
5 GENERAL INFORMATION.....	5
5.1 CLIENT INFORMATION.....	5
5.2 GENERAL DESCRIPTION OF E.U.T.....	5
5.3 TEST ENVIRONMENT AND TEST MODE	6
5.4 DESCRIPTION OF SUPPORT UNITS.....	6
5.5 MEASUREMENT UNCERTAINTY.....	6
5.6 LABORATORY FACILITY.....	7
5.7 LABORATORY LOCATION	7
5.8 TEST INSTRUMENTS LIST.....	7
6 TEST RESULTS AND MEASUREMENT DATA.....	9
6.1 ANTENNA REQUIREMENT	9
6.2 CONDUCTED EMISSION	10
6.3 CONDUCTED OUTPUT POWER	17
6.4 OCCUPY BANDWIDTH	20
6.5 POWER SPECTRAL DENSITY	25
6.6 BAND EDGE	28
6.6.1 Conducted Emission Method.....	28
6.6.2 Radiated Emission Method.....	31
6.7 SPURIOUS EMISSION.....	48
6.7.1 Conducted Emission Method.....	48
6.7.2 Radiated Emission Method.....	51
7 TEST SETUP PHOTO	63
8 EUT CONSTRUCTIONAL DETAILS	64

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)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247 (d)	Pass
Spurious Emission	15.205 & 15.209	Pass
<i>Pass: The EUT complies with the essential requirements in the standard.</i> <i>N/A: Not Applicable.</i>		

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, A 7, China.

5.2 General Description of E.U.T.

Product Name:	LTE mobile phone
Model No.:	N5501L, A5L
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	-1.74dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2650mAh
AC adapter:	Adapter(1) Model: HNBL050100UX Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A Adapter(2) Model: HJ-0501000E1-US Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A Adapter(3) Model: HJ-0501000B3-EU Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A
Remark:	1. The No.: N5501L, A5L were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference

being model name and trademark.

2. adapter (1) have different pins and the internal structure is the same, so there is no need to do the difference test.

Operation Frequency each of channel for 802.11b/g/n(H20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

- For 802.11n-HT40 mode, the channel number is from 3 to 9;
- Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel, Channel; 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel, Channel.

5.3 Test environment and test mode

Operating Environment:

Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar

Test mode:

Transmitting mode	Keep the EUT in continuous transmitting with modulation
-------------------	---

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, 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.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate, the follow list were the worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

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)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 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	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

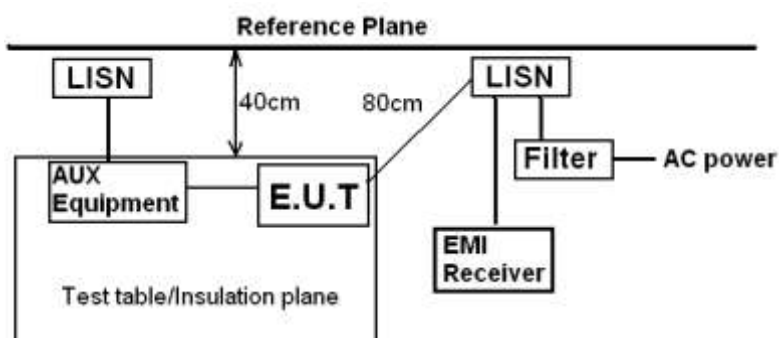
Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
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 WiFi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is -1.74 dBi. 	

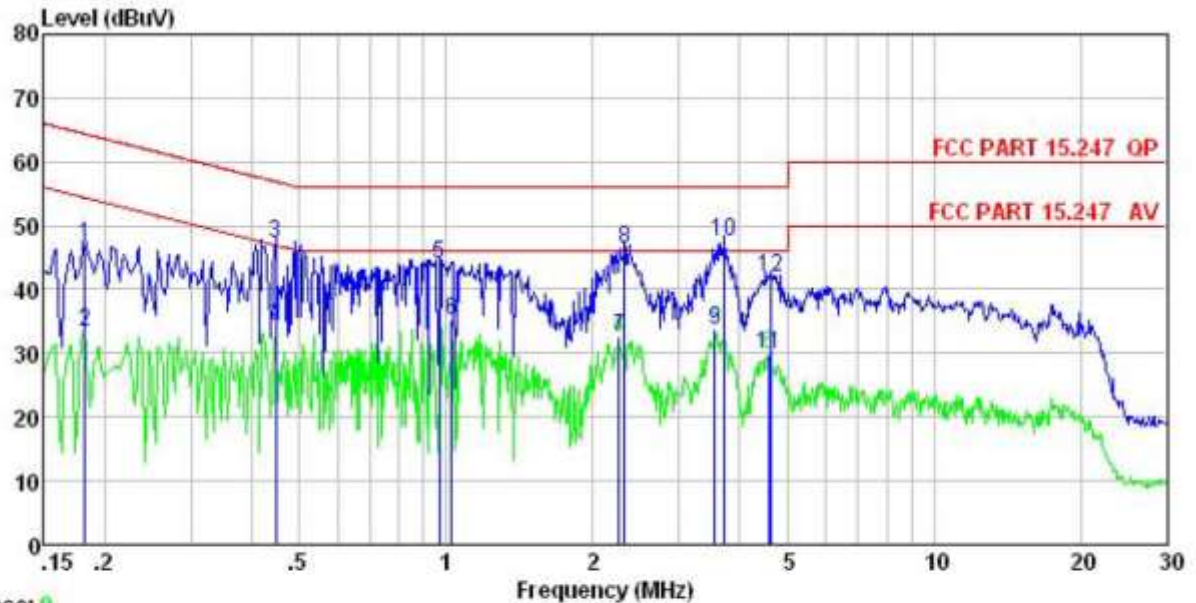
6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz		
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 procedure	- The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which 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 setup:	 Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Adapter (1)

Measurement Data:

Test Phase: Neutral



Trace: 9

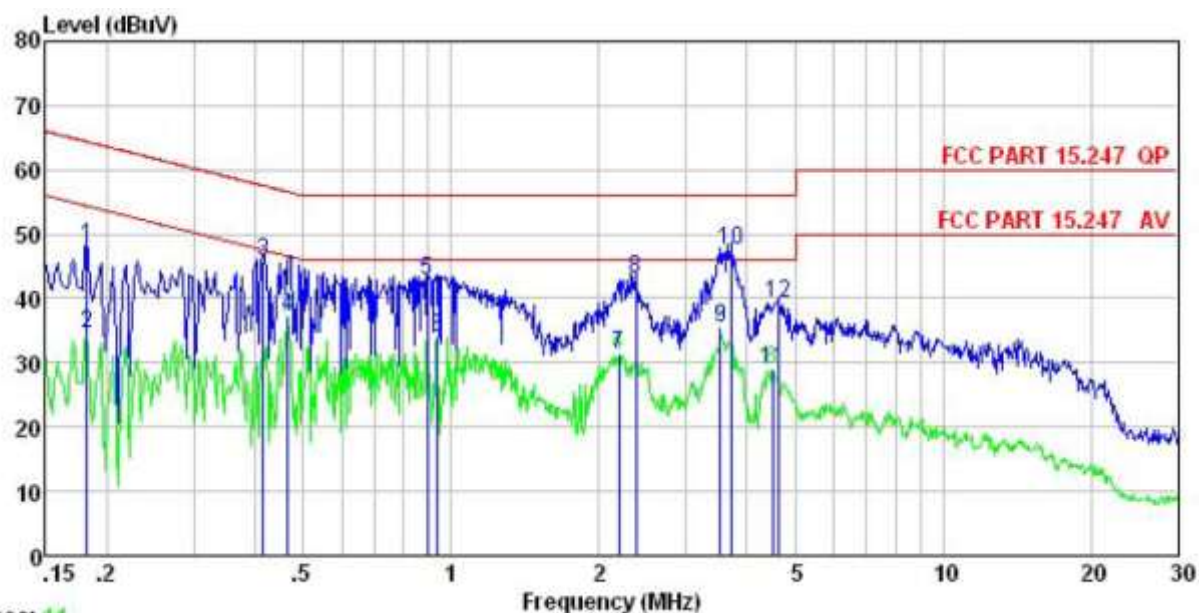
Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN NEUTRAL
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : WIFI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark :

	Freq	Read	LISN	Cable	Level	Limit	Over	
	MHz	dBuV	Factor	Loss	dBuV	dBuV	Limit	Remark
			dB	dB			dB	
1	0.182	35.36	0.94	10.77	47.07	64.42	-17.35	QP
2	0.182	21.66	0.94	10.77	33.37	64.42	-31.05	Average
3	0.447	35.60	0.97	10.74	47.31	56.93	-9.62	QP
4	0.447	22.45	0.97	10.74	34.16	56.93	-22.77	Average
5	0.968	32.15	0.97	10.86	43.98	56.00	-12.02	QP
6	1.027	23.19	0.97	10.87	35.03	56.00	-20.97	Average
7	2.261	20.60	0.98	10.95	32.53	56.00	-23.47	Average
8	2.321	34.35	0.98	10.94	46.27	56.00	-9.73	QP
9	3.565	21.75	1.00	10.90	33.65	56.00	-22.35	Average
10	3.720	35.50	1.00	10.90	47.40	56.00	-8.60	QP
11	4.574	18.03	1.00	10.87	29.90	56.00	-26.10	Average
12	4.647	30.00	1.01	10.86	41.87	56.00	-14.13	QP

Notes:

1. An initial pre-scan was performed on the live 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.

Test Phase: Line



Trace: 11

Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN LINE
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : WIFI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark :

	Read	LISN	Cable	Level	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.182	37.12	0.16	10.77	48.05	64.42	-16.37 QP
2	0.182	23.64	0.16	10.77	34.57	64.42	-29.85 Average
3	0.415	35.01	0.12	10.73	45.86	57.55	-11.69 QP
4	0.466	26.43	0.12	10.75	37.30	58.58	-19.28 Average
5	0.894	31.85	0.13	10.84	42.82	56.00	-13.18 QP
6	0.938	23.02	0.13	10.85	34.00	56.00	-22.00 Average
7	2.190	20.15	0.15	10.95	31.25	56.00	-24.75 Average
8	2.371	31.97	0.15	10.94	43.06	56.00	-12.94 QP
9	3.528	24.34	0.17	10.90	35.41	56.00	-20.59 Average
10	3.720	36.53	0.18	10.90	47.61	56.00	-8.39 QP
11	4.501	17.78	0.19	10.87	28.84	56.00	-27.16 Average
12	4.647	28.12	0.20	10.86	39.18	56.00	-16.82 QP

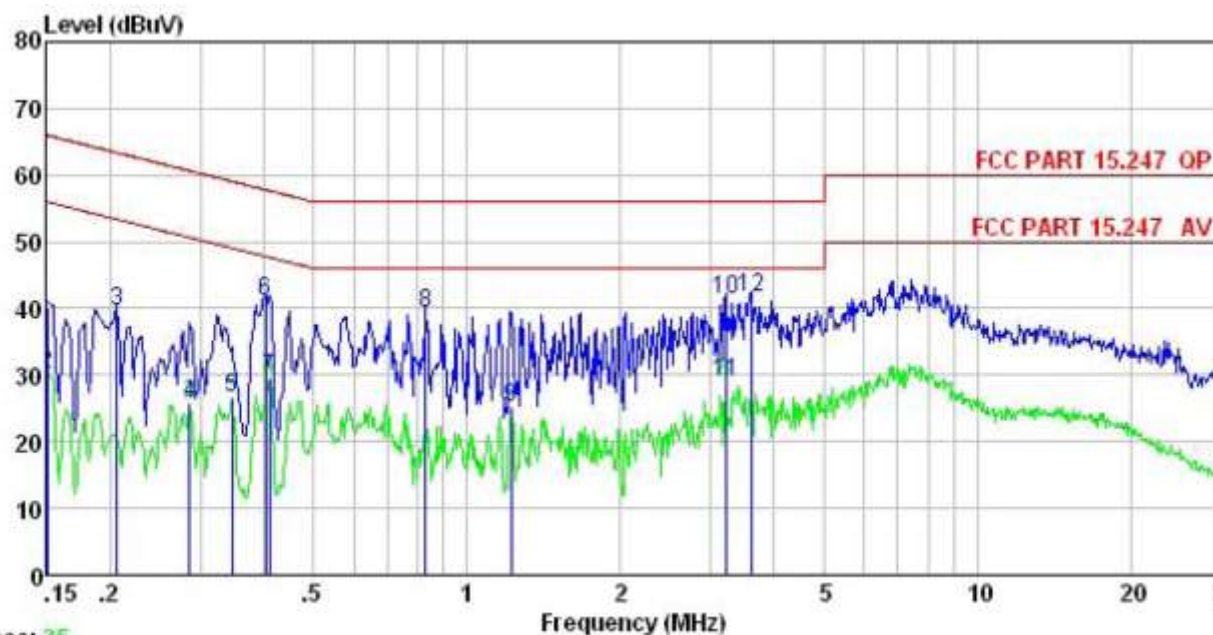
Notes:

1. An initial pre-scan was performed on the live 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.

Adapter (2)

Measurement Data:

Test Phase: Neutral



Trace: 35

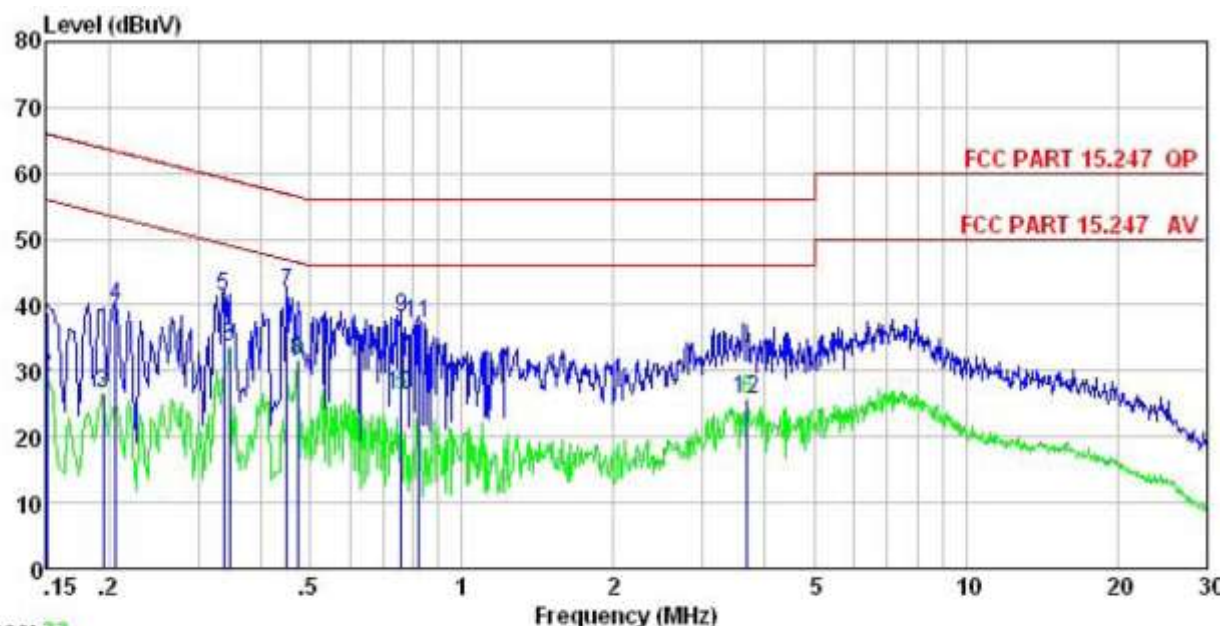
Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN NEUTRAL
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : 2.4GWIFI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark : HJ-0501000E1-US

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	28.37	0.99	10.78	40.14	66.00	-25.86	QP
2	0.150	18.35	0.99	10.78	30.12	66.00	-35.88	Average
3	0.206	27.86	0.92	10.76	39.54	63.36	-23.82	QP
4	0.286	14.05	0.97	10.74	25.76	60.63	-34.87	Average
5	0.346	14.86	0.97	10.73	26.56	59.05	-32.49	Average
6	0.402	29.32	0.97	10.72	41.01	57.81	-16.80	QP
7	0.410	17.71	0.97	10.72	29.40	57.64	-28.24	Average
8	0.830	27.42	0.97	10.82	39.21	56.00	-16.79	QP
9	1.223	13.14	0.97	10.90	25.01	56.00	-30.99	Average
10	3.207	29.39	0.99	10.91	41.29	56.00	-14.71	QP
11	3.207	17.16	0.99	10.91	29.06	56.00	-26.94	Average
12	3.603	29.73	1.00	10.90	41.63	56.00	-14.37	QP

Notes:

1. An initial pre-scan was performed on the live 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.

Test Phase: Line



Trace: 33

Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN LINE
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : 2.4GWIFI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YI
 Remark : HJ-0501000E1-US

	Freq	Read	LISN	Cable	Level	Limit	Over	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	28.06	0.18	10.78	39.02	66.00	-26.98	QP
2	0.150	18.27	0.18	10.78	29.23	66.00	-36.77	Average
3	0.194	15.64	0.15	10.76	26.55	63.84	-37.29	Average
4	0.206	28.94	0.15	10.76	39.85	63.36	-23.51	QP
5	0.337	30.56	0.13	10.73	41.42	59.27	-17.85	QP
6	0.346	22.78	0.12	10.73	33.63	59.05	-25.42	Average
7	0.449	30.94	0.12	10.74	41.80	56.89	-15.09	QP
8	0.471	20.64	0.12	10.75	31.51	56.49	-24.98	Average
9	0.759	27.25	0.13	10.80	38.18	56.00	-17.82	QP
10	0.759	15.32	0.13	10.80	26.25	56.00	-29.75	Average
11	0.822	26.38	0.13	10.82	37.33	56.00	-18.67	QP
12	3.681	14.47	0.17	10.90	25.54	56.00	-30.46	Average

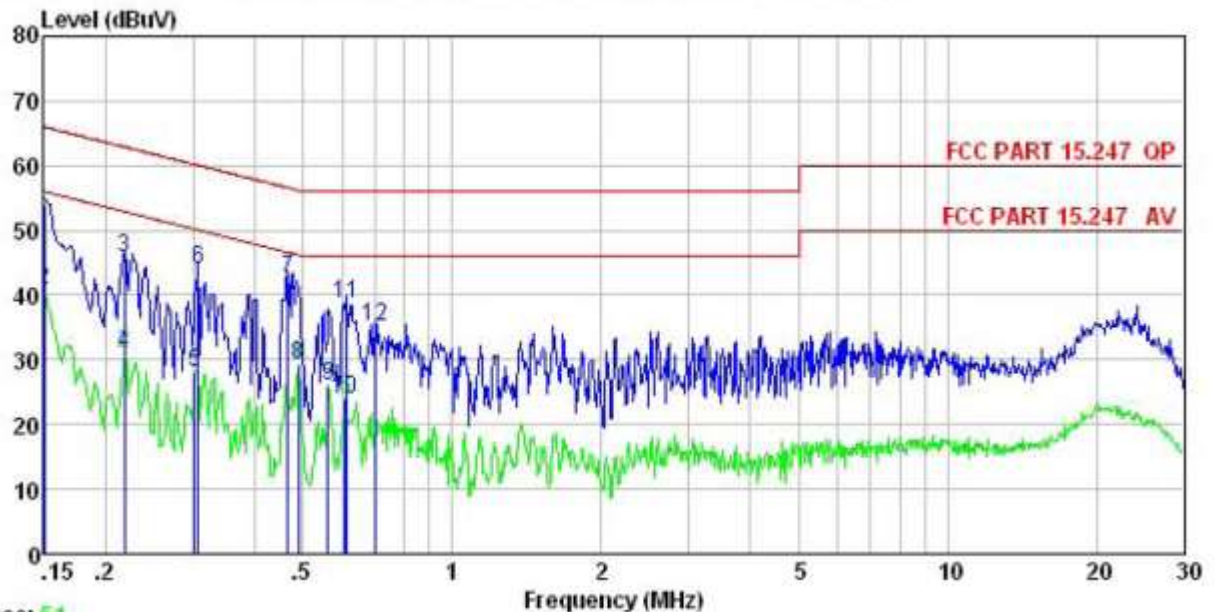
Notes:

1. An initial pre-scan was performed on the live 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.

Adapter (3)

Measurement Data:

Test Phase: Neutral



Trace: 51

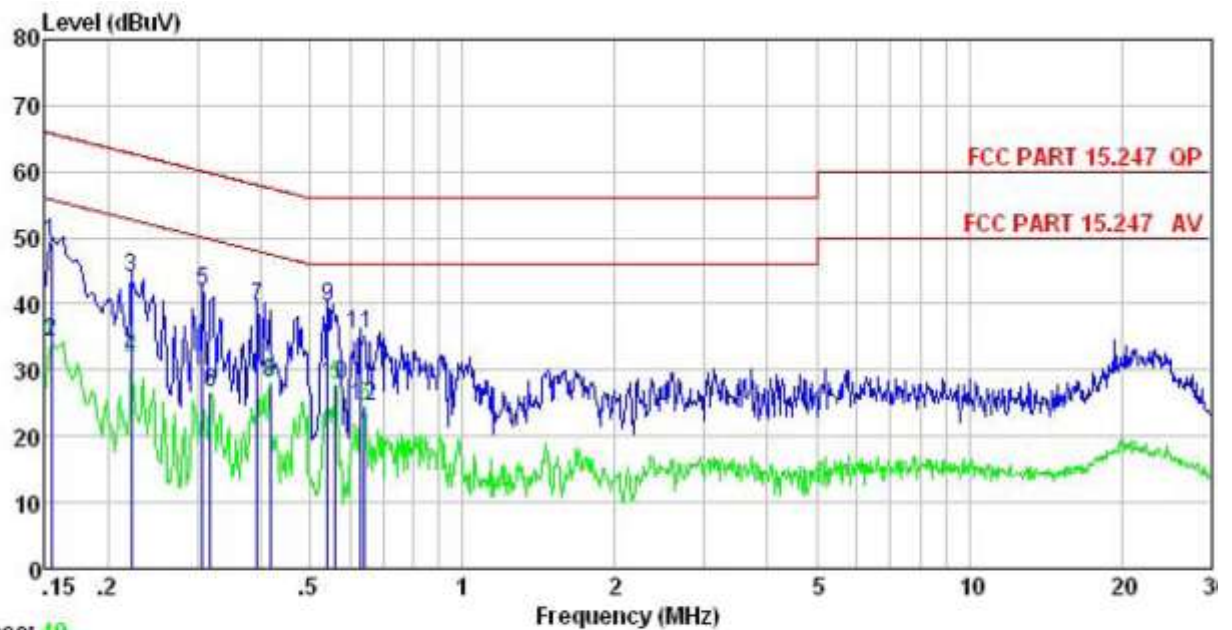
Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN NEUTRAL
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : 2.4GWIFI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark : HJ-0501000B3-EU

	Freq	Read	LISN	Cable	Level	Limit	Over	
	MHz	Level	Factor	Loss	dBuV	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	42.23	0.99	10.78	54.00	66.00	-12.00	QP
2	0.150	28.96	0.99	10.78	40.73	66.00	-25.27	Average
3	0.219	33.94	0.93	10.76	45.63	62.88	-17.25	QP
4	0.219	19.27	0.93	10.76	30.96	62.88	-31.92	Average
5	0.302	16.42	0.97	10.74	28.13	60.19	-32.06	Average
6	0.307	32.23	0.97	10.74	43.94	60.06	-16.12	QP
7	0.466	30.88	0.97	10.75	42.60	56.58	-13.98	QP
8	0.489	17.53	0.97	10.76	29.26	56.19	-26.93	Average
9	0.561	14.19	0.97	10.76	25.92	56.00	-30.08	Average
10	0.608	12.22	0.97	10.77	23.96	56.00	-32.04	Average
11	0.611	27.04	0.97	10.77	38.78	56.00	-17.22	QP
12	0.697	23.34	0.97	10.77	35.08	56.00	-20.92	QP

Notes:

1. An initial pre-scan was performed on the live 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.

Test Phase: Line



Trace: 49

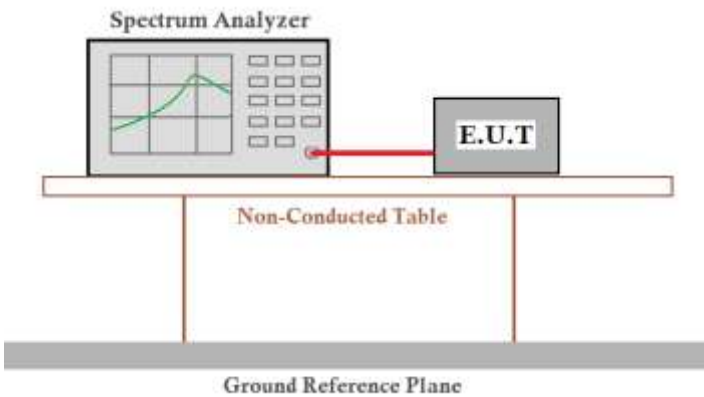
Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN LINE
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : 2.4GWIFI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark : HJ-0501000B3-EU

	Freq	Read	LISN	Cable	Limit	Over	
	MHz	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dB	
1	0.154	38.37	0.18	10.78	49.33	65.78	-16.45 QP
2	0.154	23.32	0.18	10.78	34.28	65.78	-31.50 Average
3	0.222	32.99	0.14	10.76	43.89	62.74	-18.85 QP
4	0.222	20.96	0.14	10.76	31.86	62.74	-30.88 Average
5	0.307	30.96	0.13	10.74	41.83	60.06	-18.23 QP
6	0.318	15.72	0.13	10.74	26.59	59.75	-33.16 Average
7	0.393	28.82	0.12	10.72	39.66	57.99	-18.33 QP
8	0.417	17.30	0.12	10.73	28.15	57.51	-29.36 Average
9	0.541	28.55	0.12	10.76	39.43	56.00	-16.57 QP
10	0.561	16.74	0.12	10.76	27.62	56.00	-28.38 Average
11	0.627	24.51	0.13	10.77	35.41	56.00	-20.59 QP
12	0.641	13.62	0.13	10.77	24.52	56.00	-31.48 Average

Notes:

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

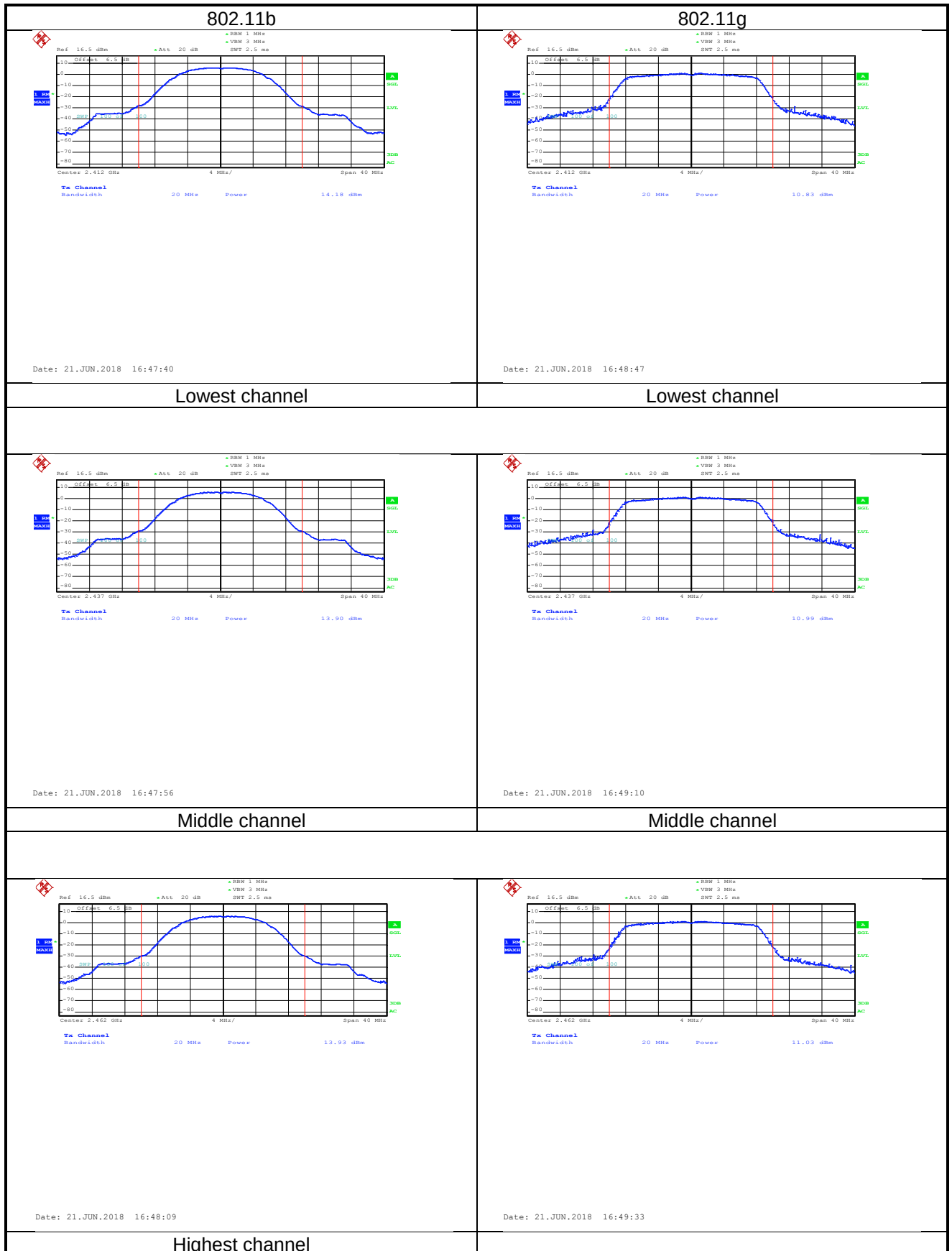
6.3 Conducted Output Power

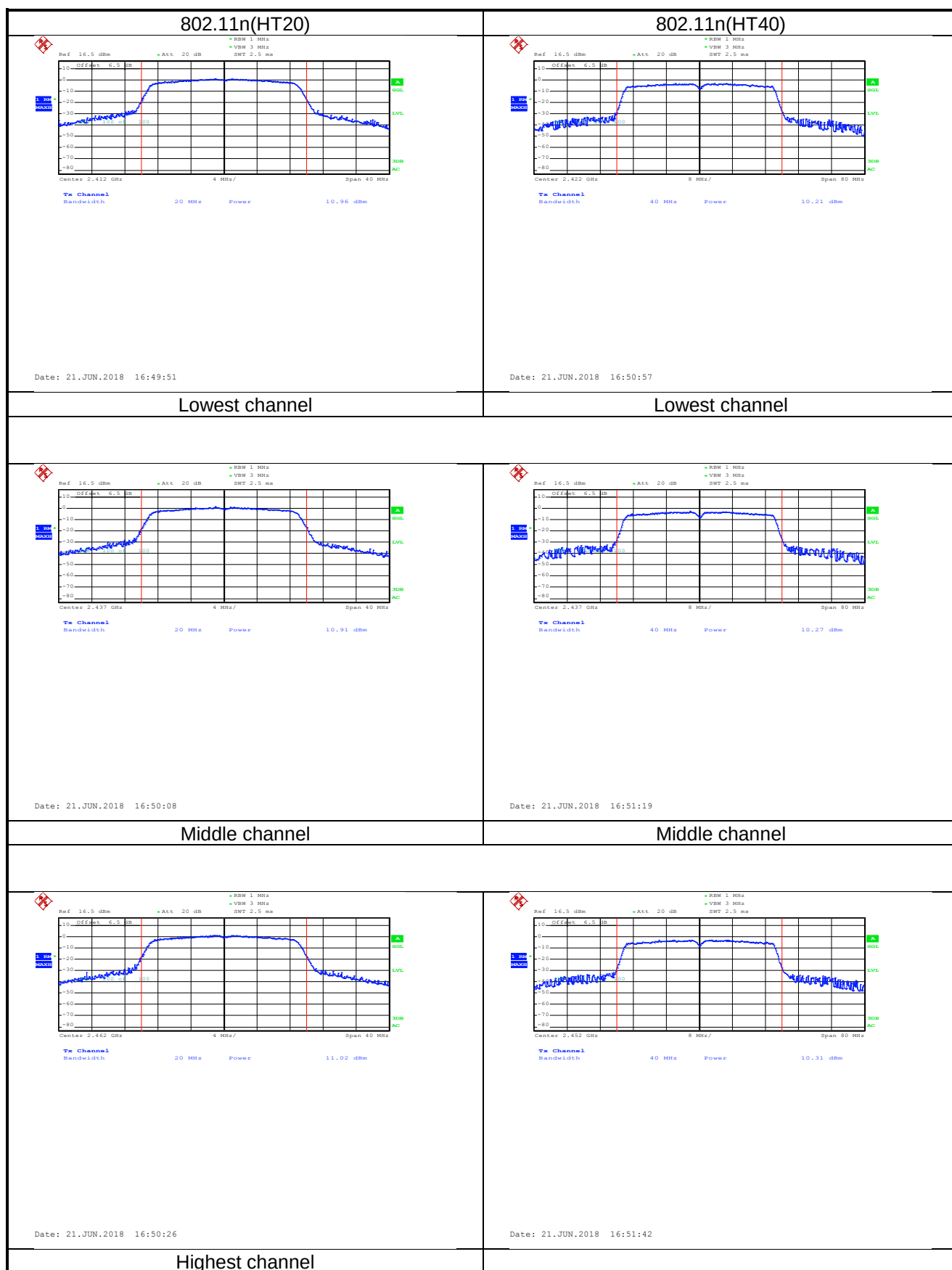
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

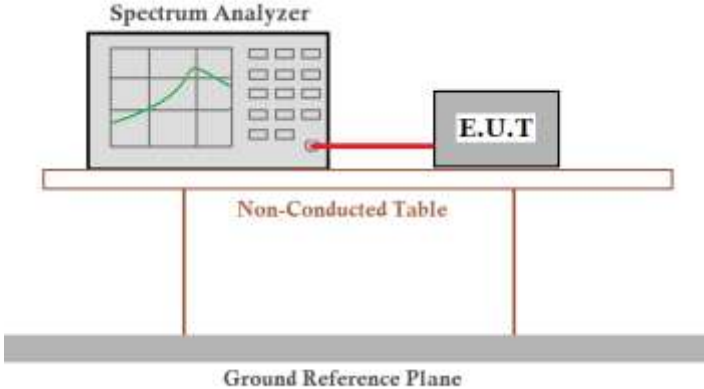
Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	14.18	10.83	10.96	10.21	30.00	Pass
Middle	13.90	10.99	10.91	10.27		
Highest	13.93	11.03	11.02	10.31		

Test plot as follows:





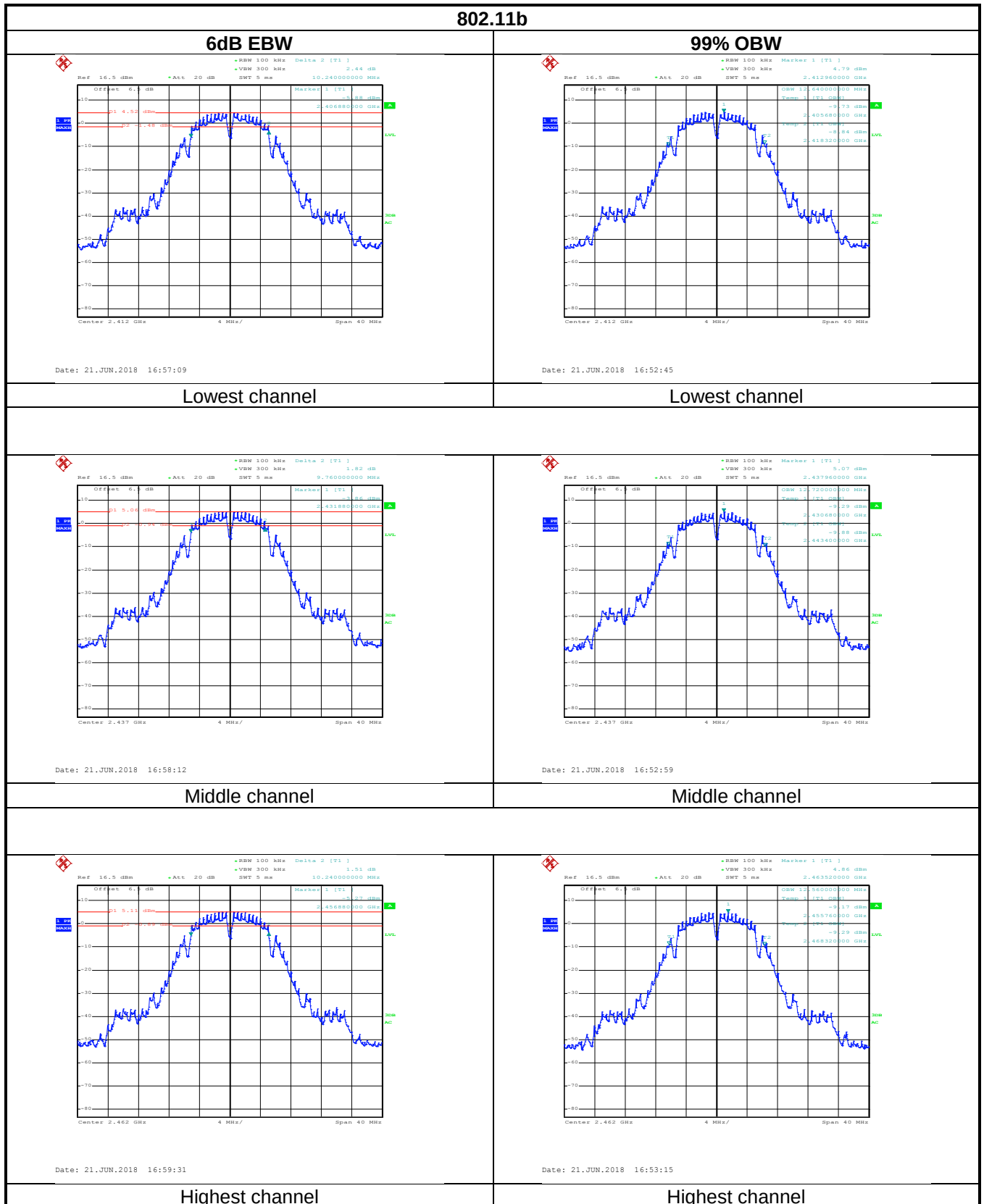
6.4 Occupy Bandwidth

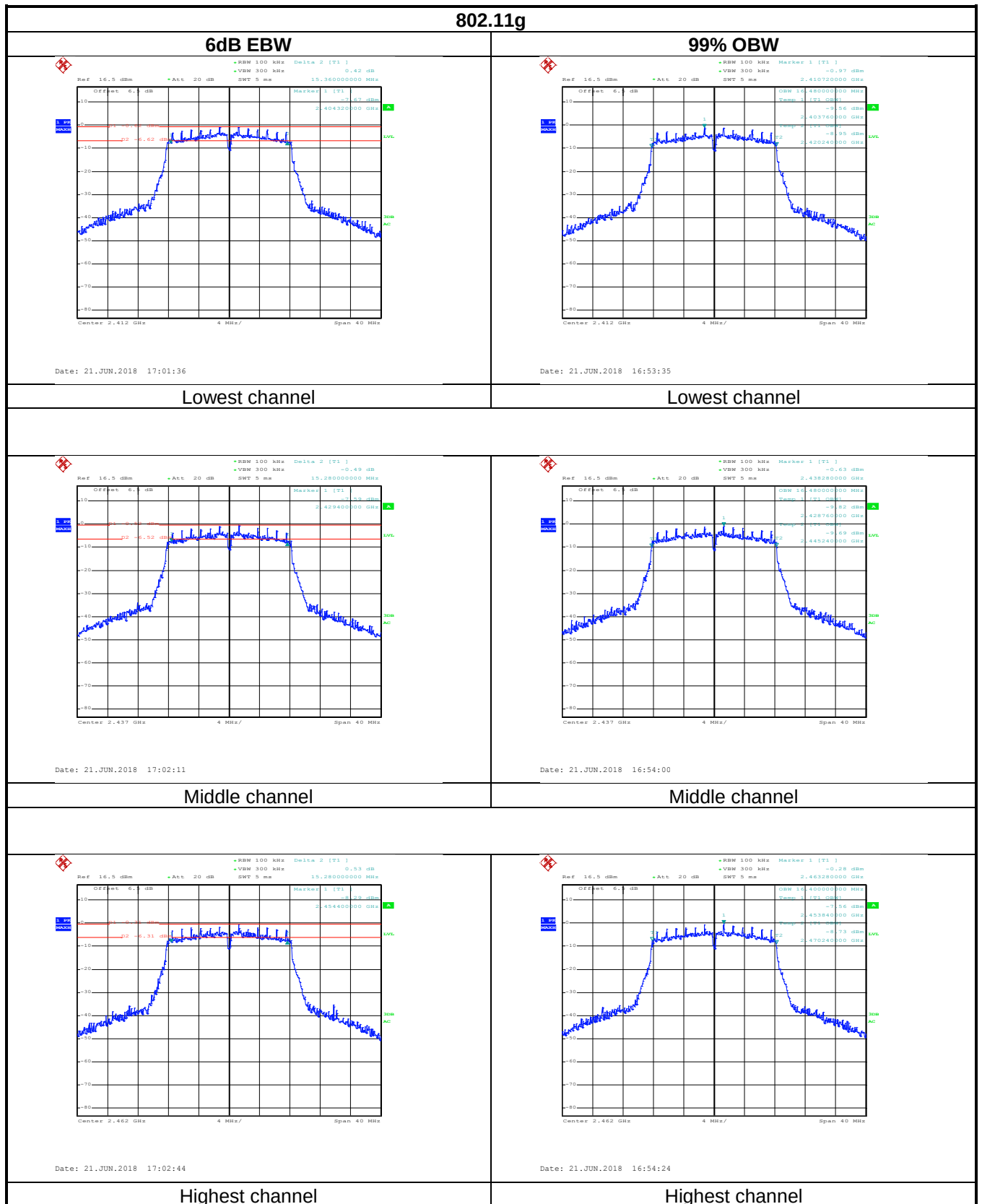
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

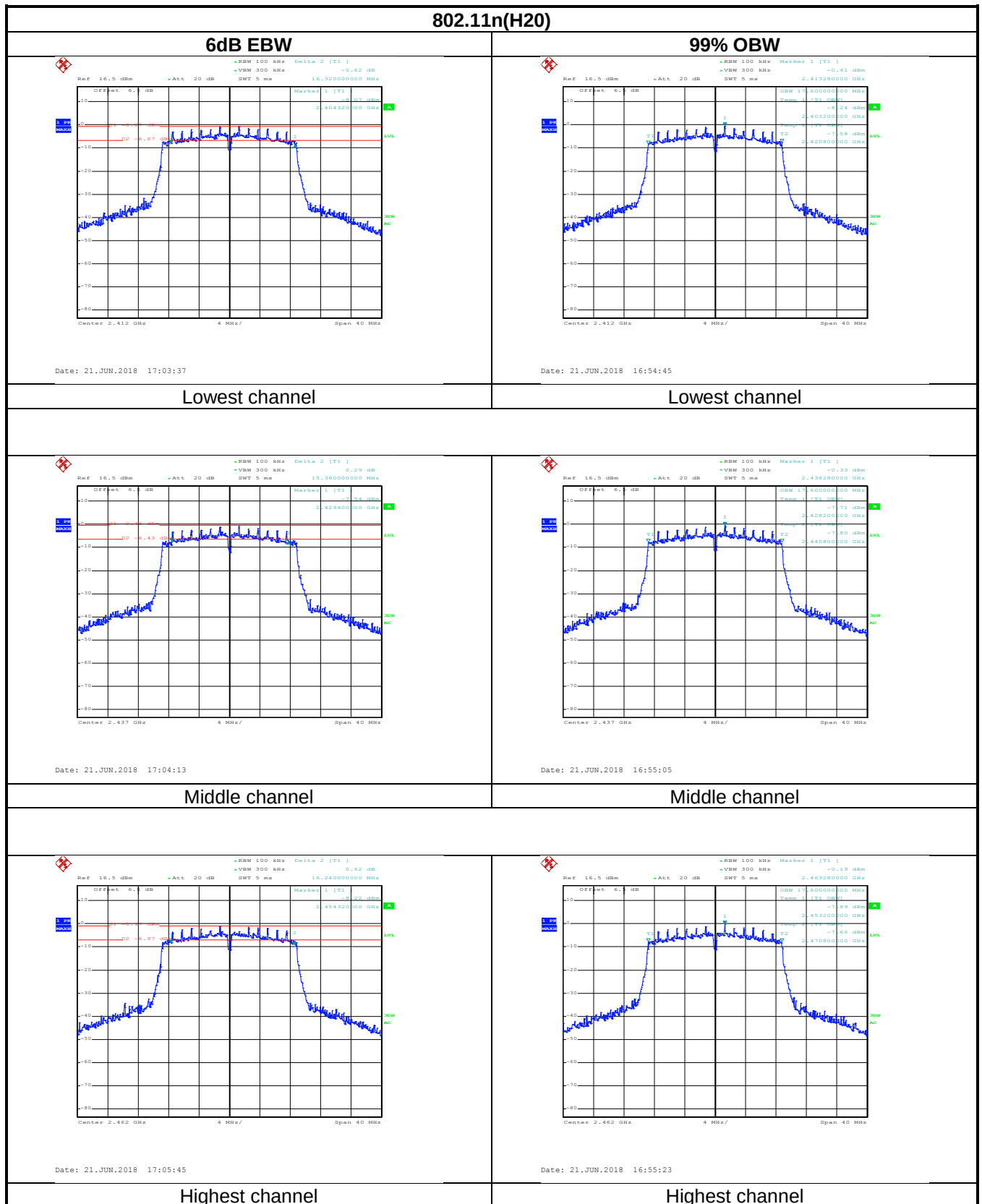
Measurement Data:

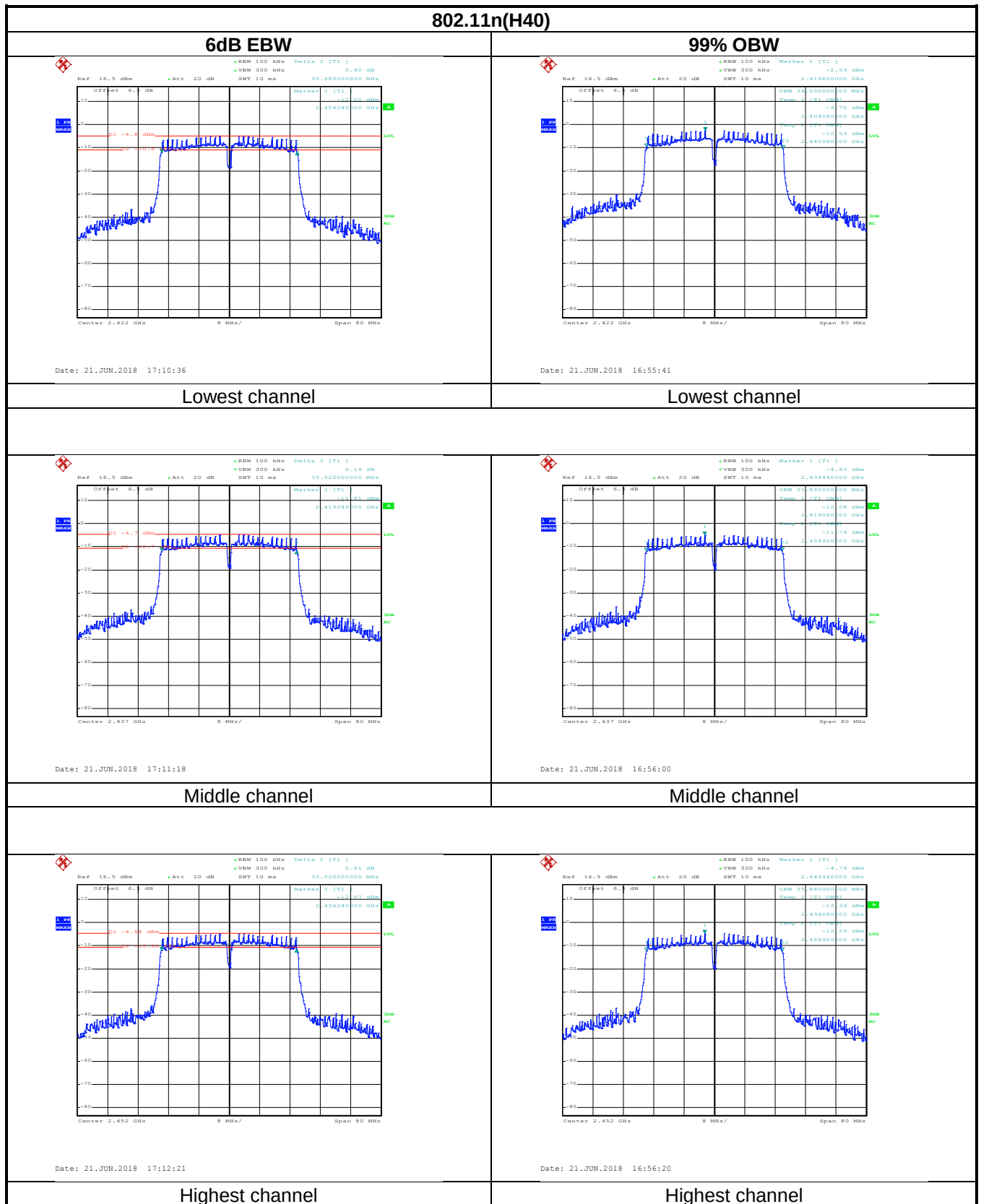
Test CH	6dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	10.24	15.36	16.32	35.68	>500	Pass
Middle	9.76	15.28	15.36	35.52		
Highest	10.24	15.28	16.24	35.52		
Test CH	99% Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	12.64	16.48	17.60	36.00	N/A	N/A
Middle	12.72	16.48	17.60	35.84		
Highest	12.56	16.40	17.60	35.84		

Test plot as follows:

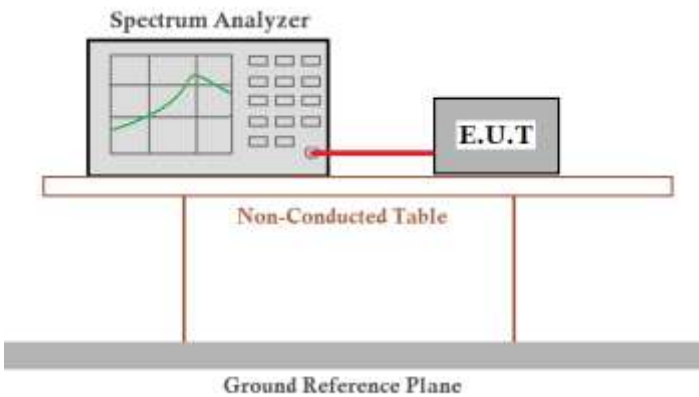








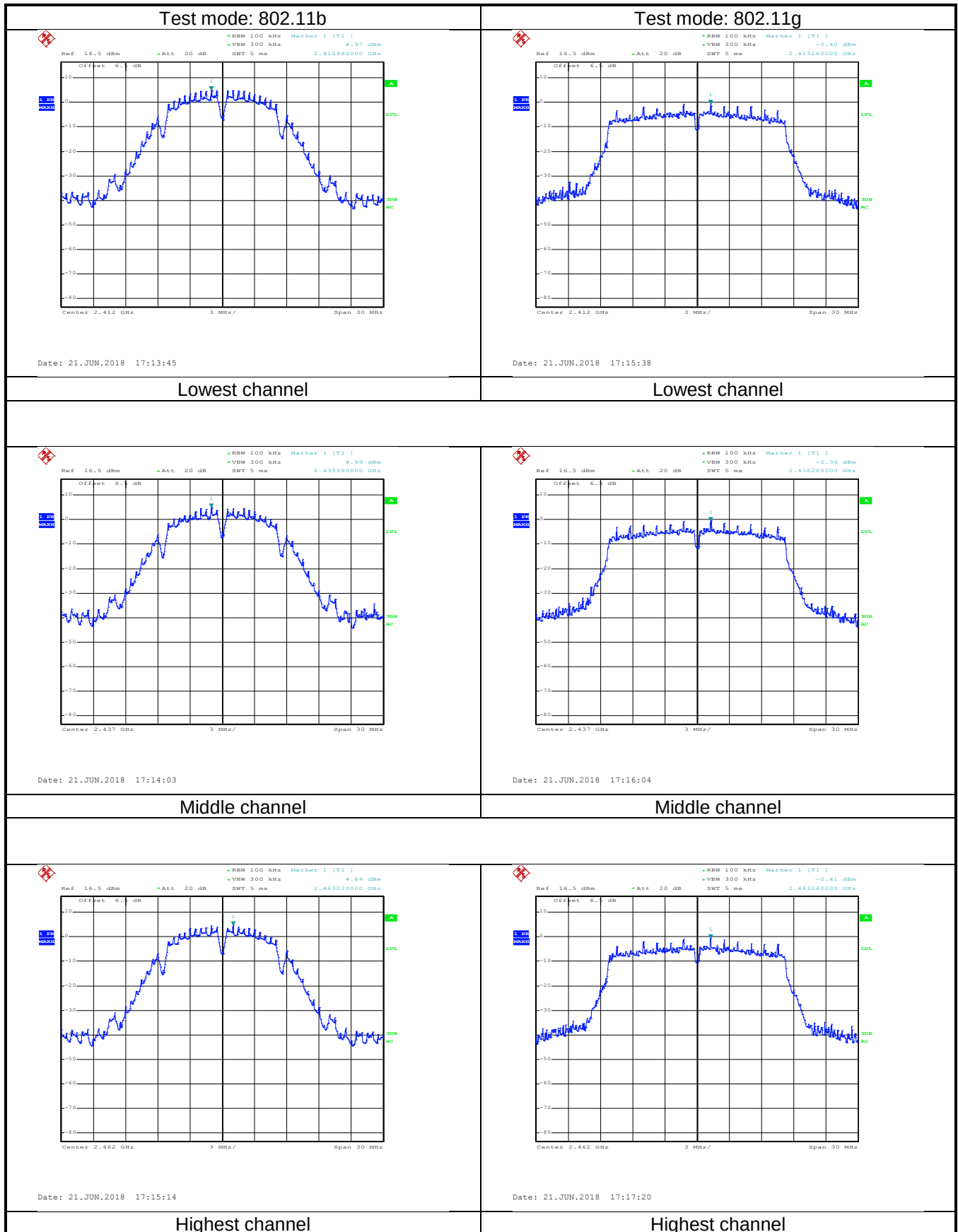
6.5 Power Spectral Density

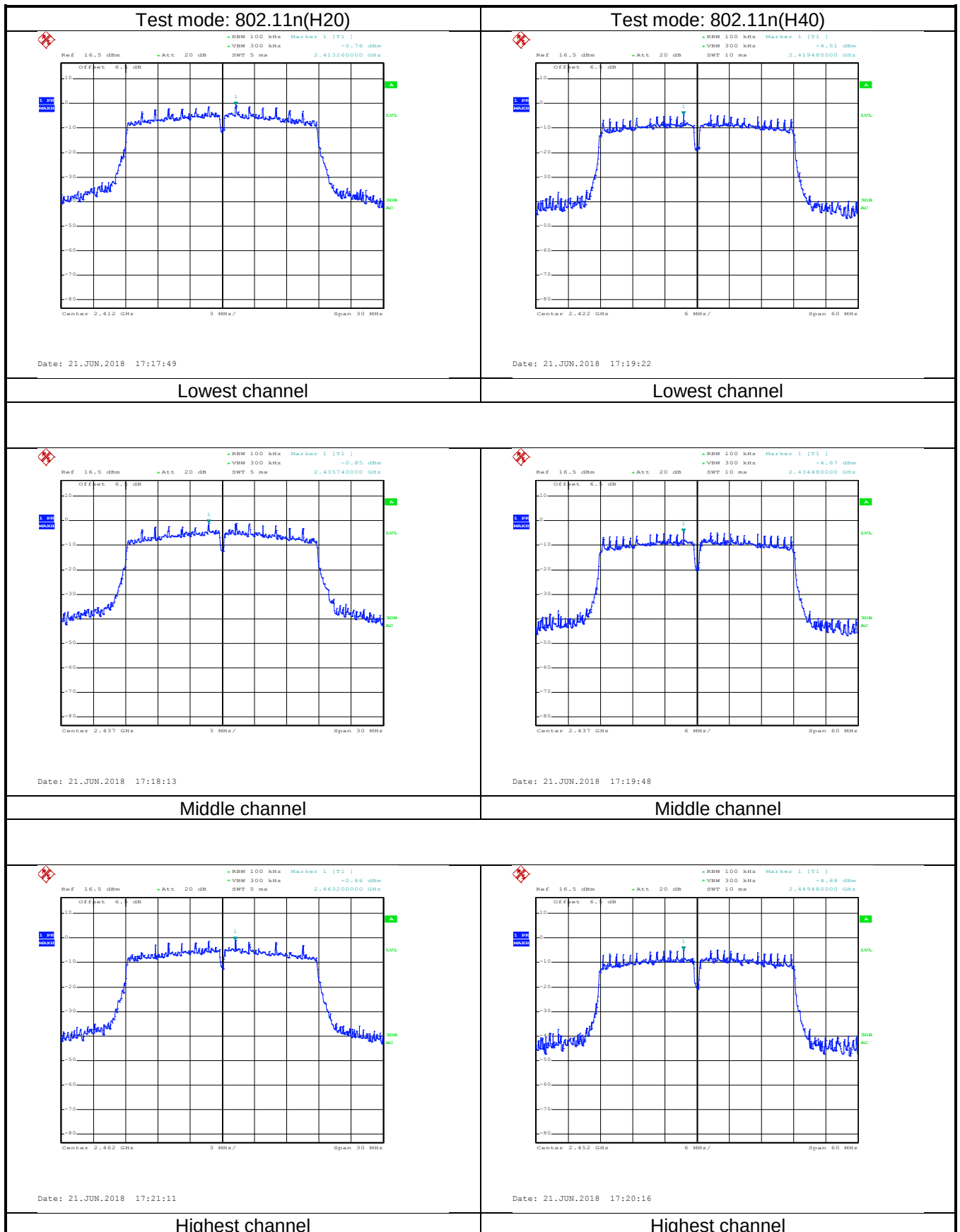
Test Requirement:	FCC Part 15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	4.97	-0.40	-0.76	-4.51	8.00	Pass
Middle	4.99	-0.36	-0.85	-4.67		
Highest	4.84	-0.41	-0.86	-4.88		

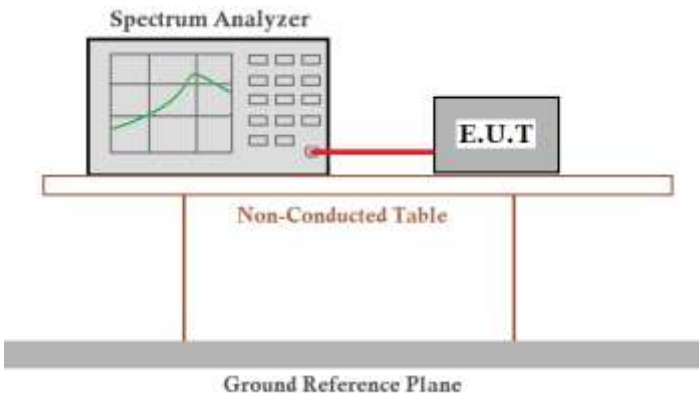
Test plot as follows:



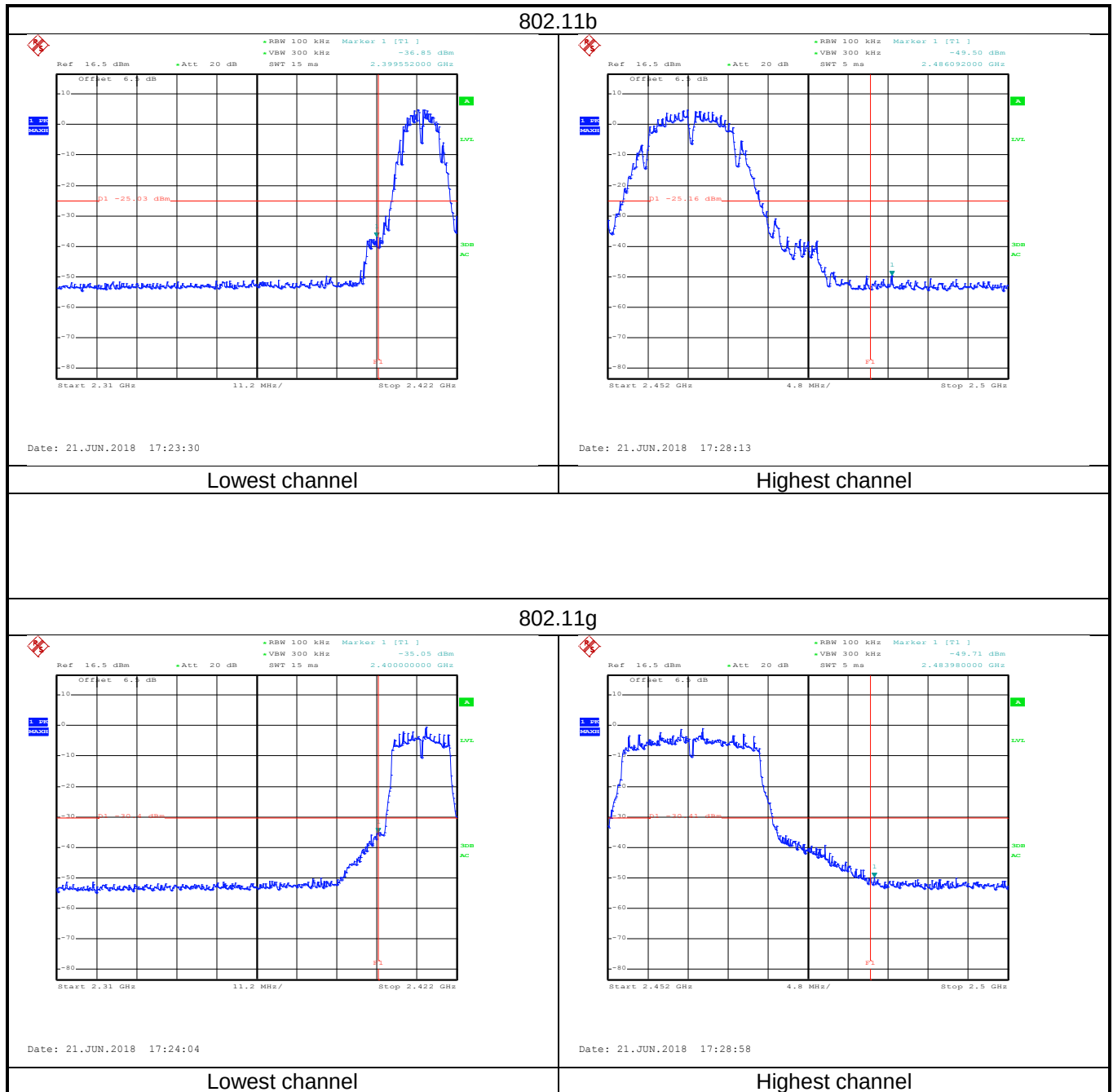


6.6 Band Edge

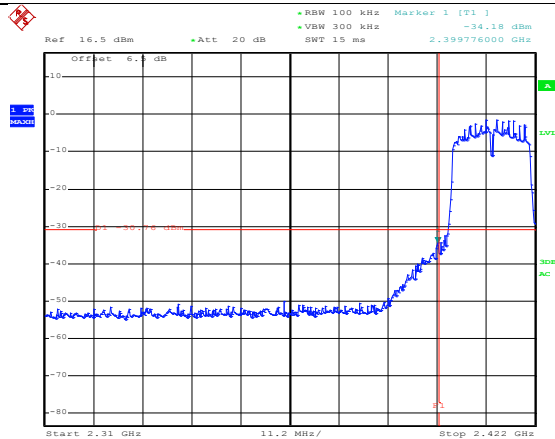
6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB 558074
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 30 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:	 The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

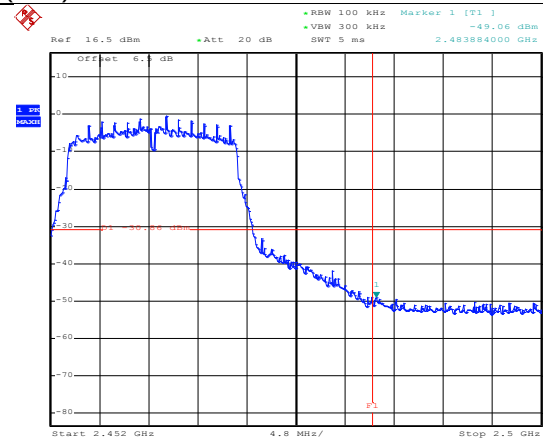


802.11n(H20)



Date: 21.JUN.2018 17:24:35

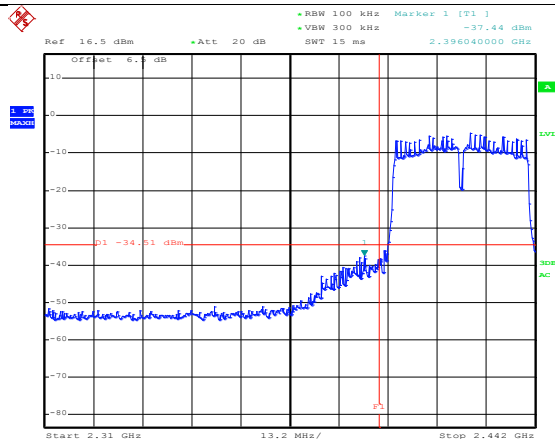
Lowest channel



Date: 21.JUN.2018 17:29:33

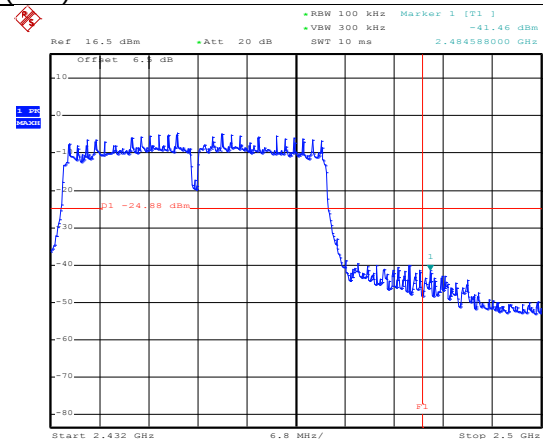
Highest channel

802.11n(H40)



Date: 21.JUN.2018 17:25:23

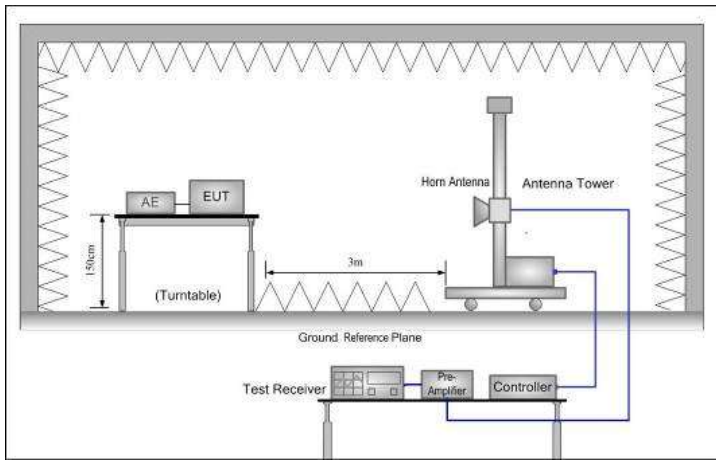
Lowest channel



Date: 21.JUN.2018 17:26:24

Highest channel

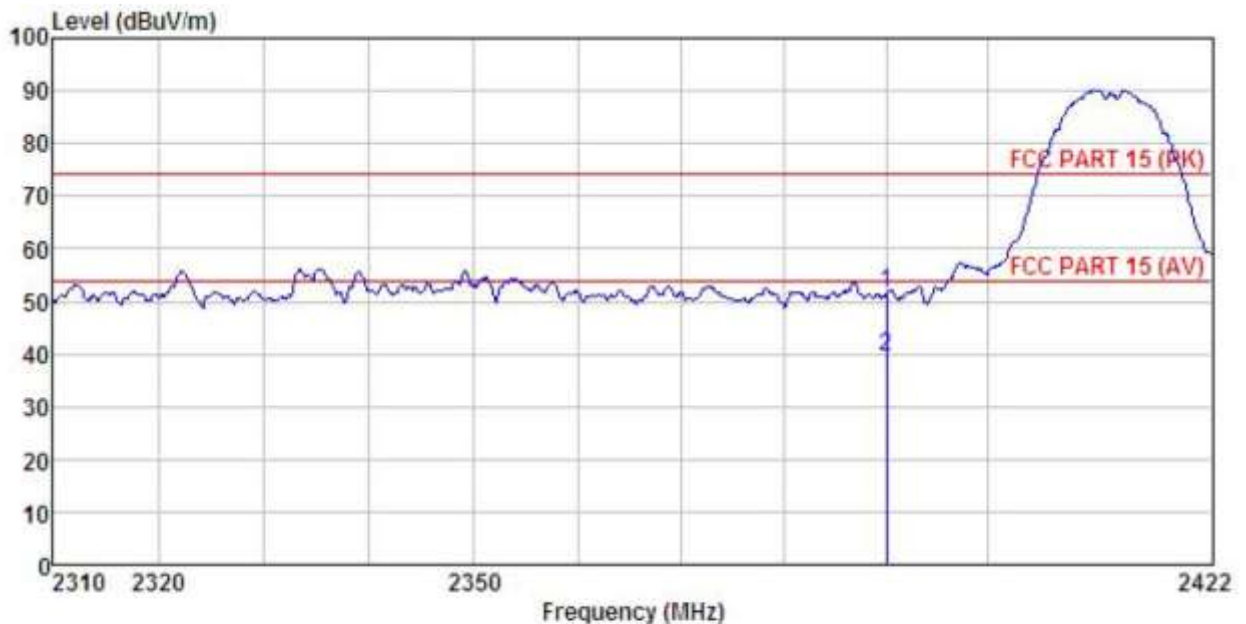
6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013 and KDB 558074				
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
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)			Remark
	Above 1GHz	54.00			Average Value
		74.00			Peak Value
Test Procedure:	1. 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. 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 setup:					
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

802.11b

Test channel: Lowest channel

Test Polarization: Horizontal



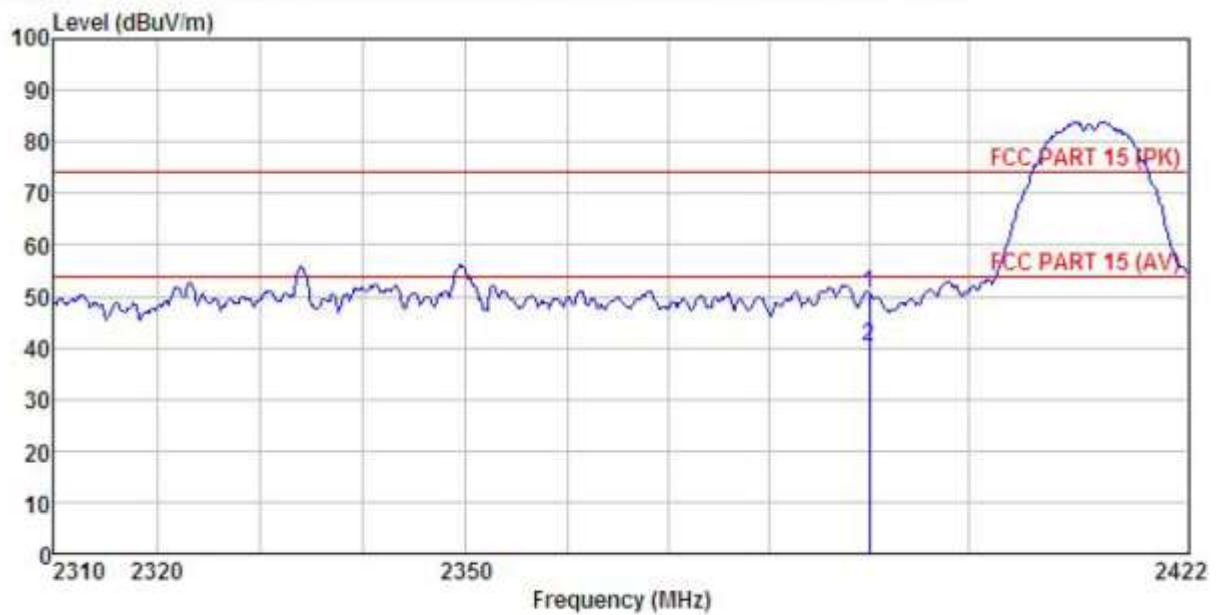
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11b-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
		Level Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	2390.000	19.78	27.37	4.69	0.00	51.84	74.00 -22.16 Peak
2	2390.000	7.40	27.37	4.69	0.00	39.46	54.00 -14.54 Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11b-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

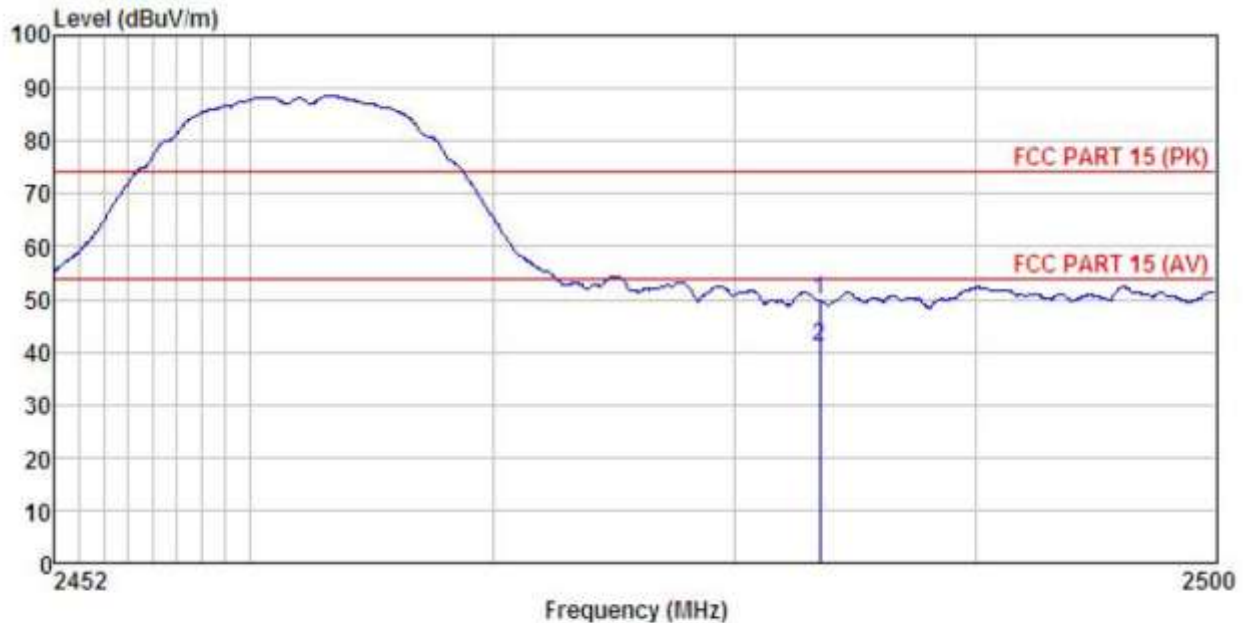
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	18.47	27.37	4.69	0.00	50.53	74.00	-23.47 Peak
2	2390.000	8.33	27.37	4.69	0.00	40.39	54.00	-13.61 Average

Remark:

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

Test channel: Highest channel

Test Polarization: Horizontal



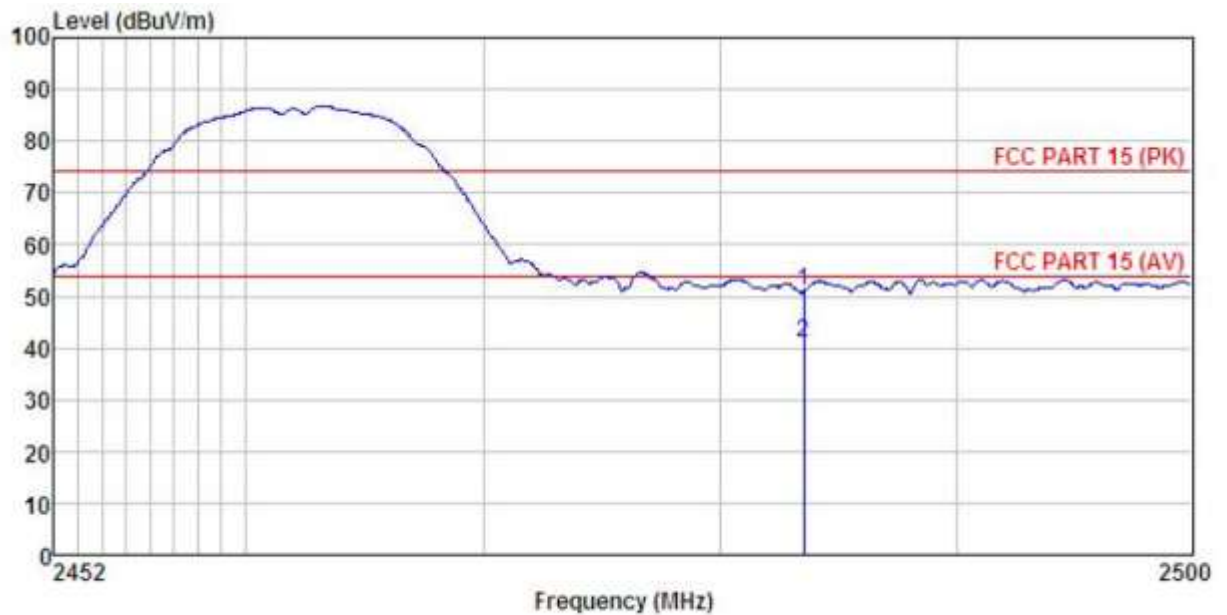
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11b-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	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	dB	
1 2483.500	17.37	27.57	4.81	0.00	49.75	74.00	-24.25	Peak
2 2483.500	8.47	27.57	4.81	0.00	40.85	54.00	-13.15	Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11b-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	18.64	27.57	4.81	0.00	51.02	74.00	-22.98	Peak
2	2483.500	8.56	27.57	4.81	0.00	40.94	54.00	-13.06	Average

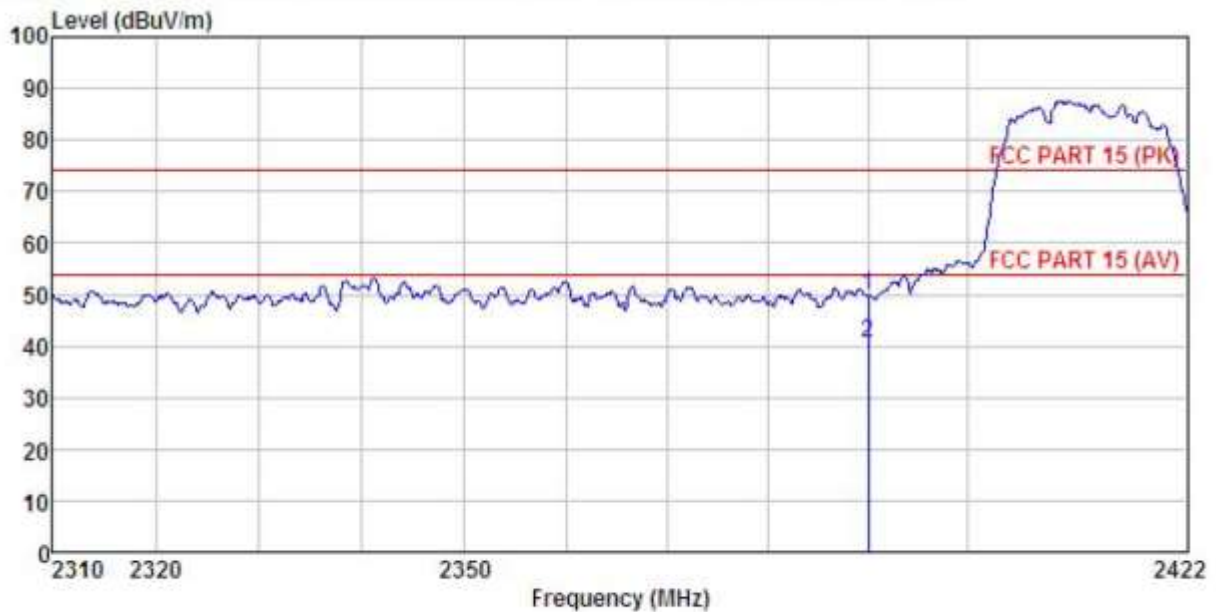
Remark:

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

802.11g

Test channel: Lowest channel

Test Polarization: Horizontal



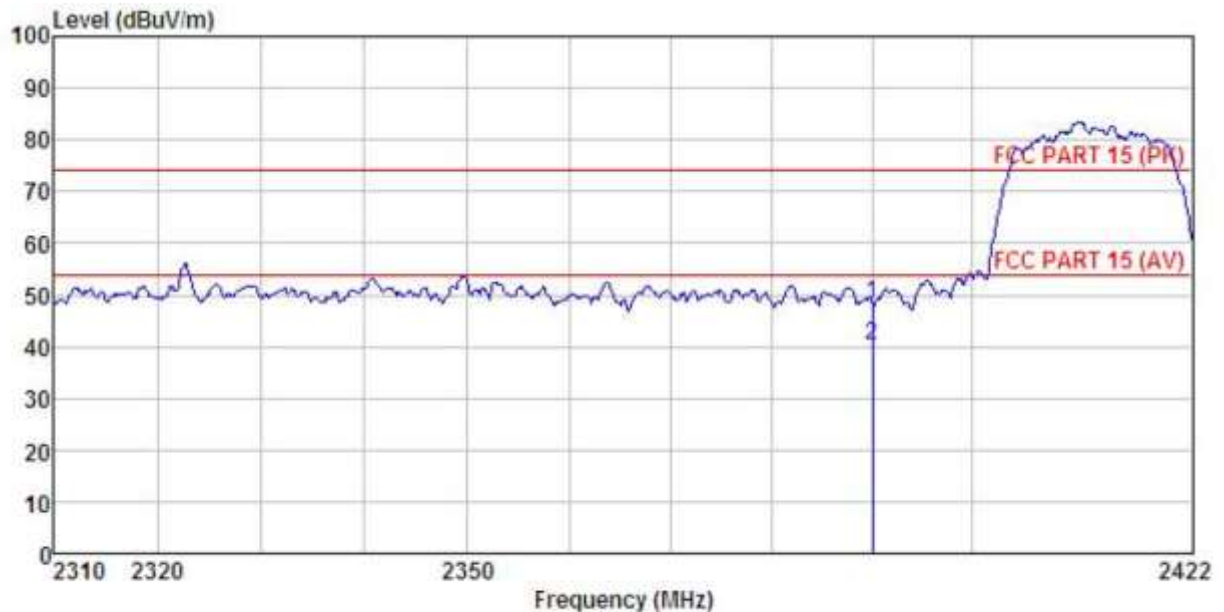
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11g-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	17.85	27.37	4.69	0.00	49.91	74.00	-24.09	Peak
2	2390.000	8.49	27.37	4.69	0.00	40.55	54.00	-13.45	Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11g-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

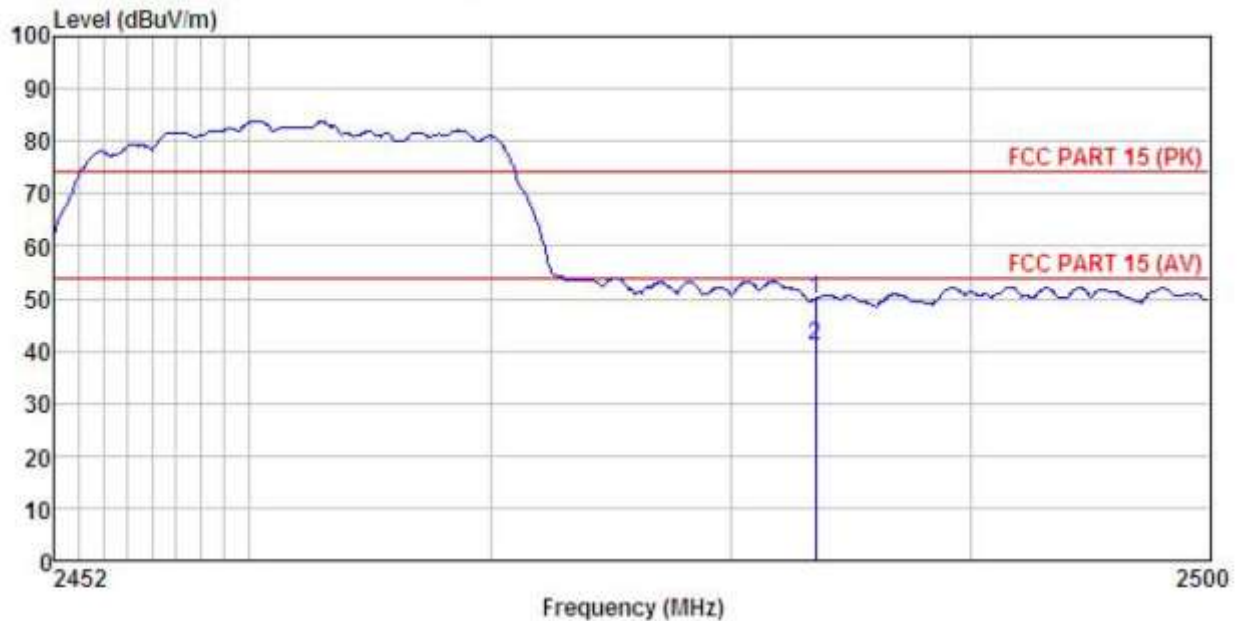
	ReadAntenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	16.17	27.37	4.69	0.00	48.23	74.00
2	2390.000	8.14	27.37	4.69	0.00	40.20	54.00

Remark:

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

Test channel: Highest channel

Test Polarization: Horizontal



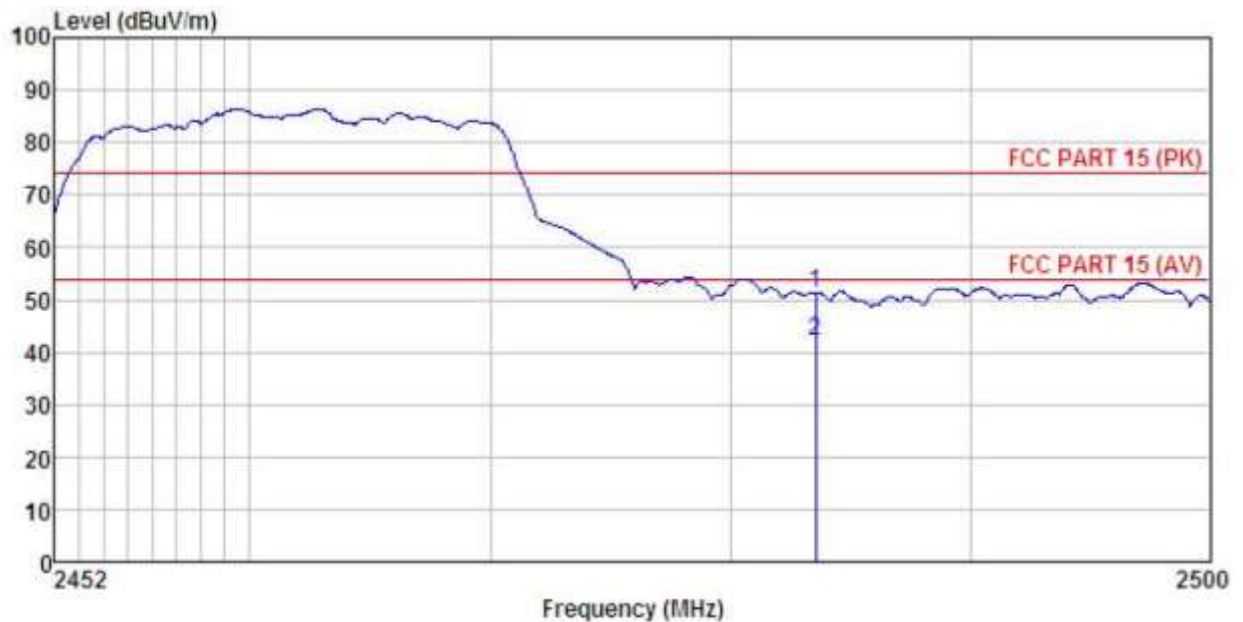
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11g-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	17.56	27.57	4.81	0.00	49.94	74.00	-24.06	Peak
2	2483.500	8.56	27.57	4.81	0.00	40.94	54.00	-13.06	Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11g-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
	Level	Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	2483.500	19.03	27.57	4.81	0.00	51.41	74.00 -22.59 Peak
2	2483.500	9.85	27.57	4.81	0.00	42.23	54.00 -11.77 Average

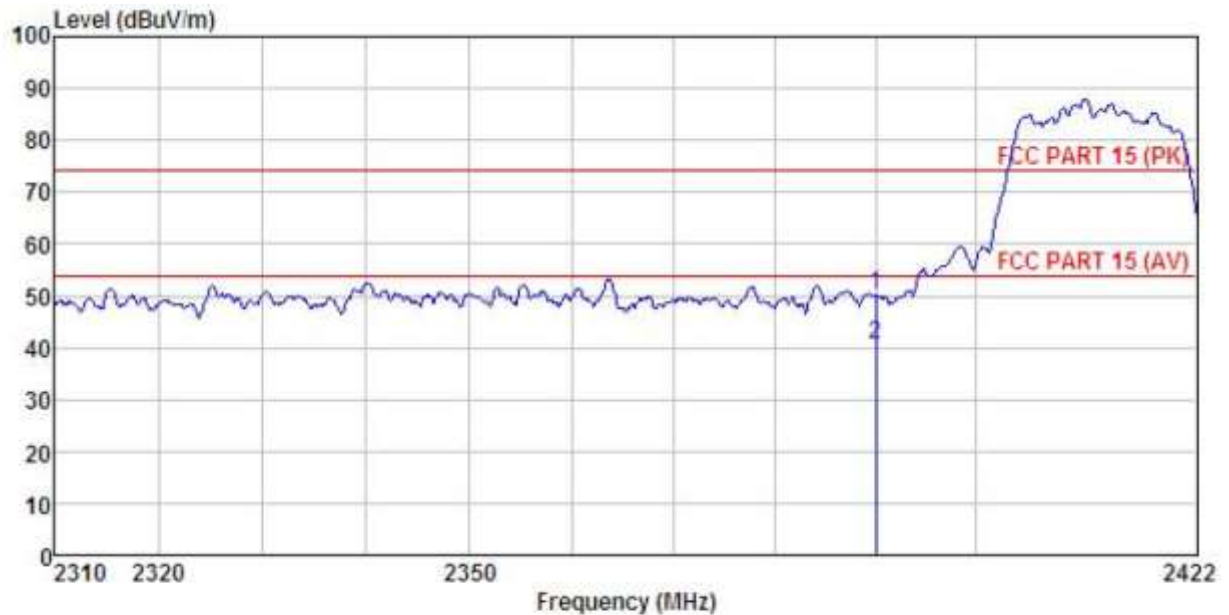
Remark:

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

802.11n (H20)

Test channel: Lowest channel

Test Polarization: Horizontal



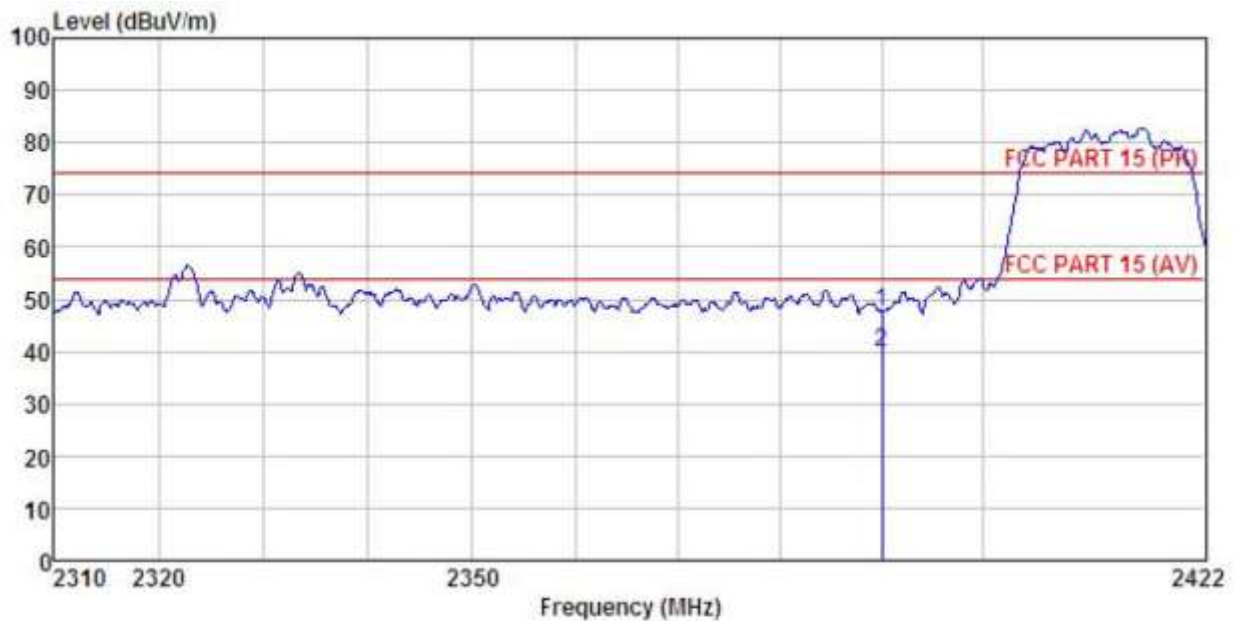
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11n20-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	18.12	27.37	4.69	0.00	50.18	74.00	-23.82 Peak
2	2390.000	8.55	27.37	4.69	0.00	40.61	54.00	-13.39 Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11n20-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

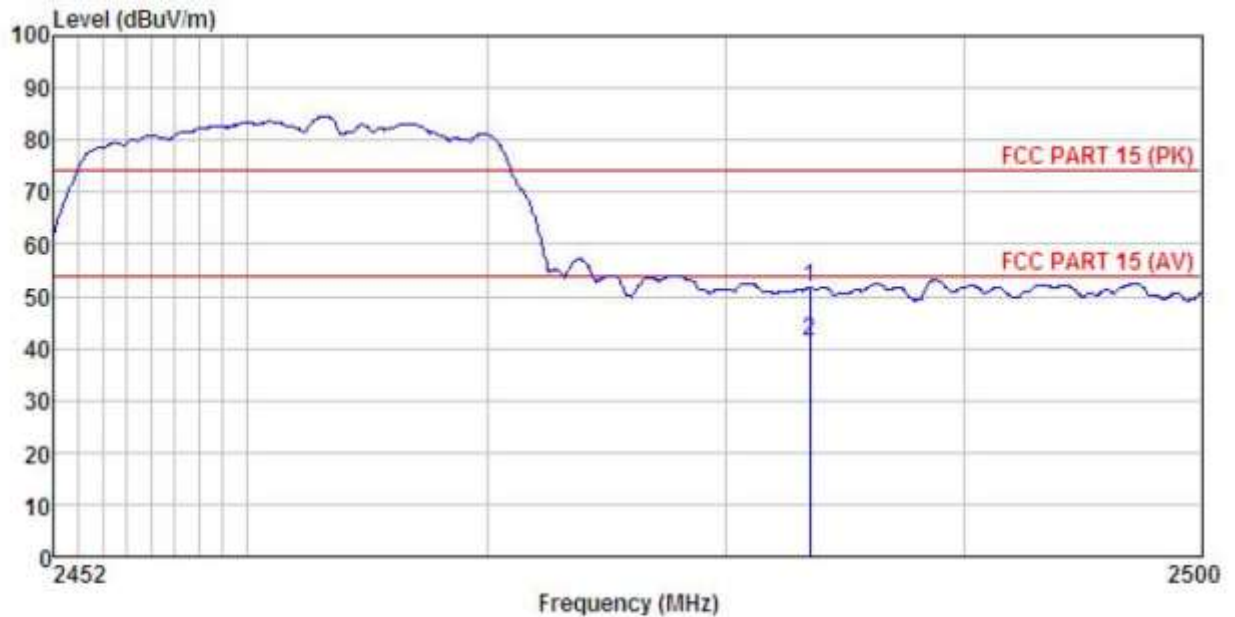
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	15.50	27.37	4.69	0.00	47.56	74.00	-26.44 Peak
2	2390.000	7.84	27.37	4.69	0.00	39.90	54.00	-14.10 Average

Remark:

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

Test channel: Highest channel

Test Polarization: Horizontal



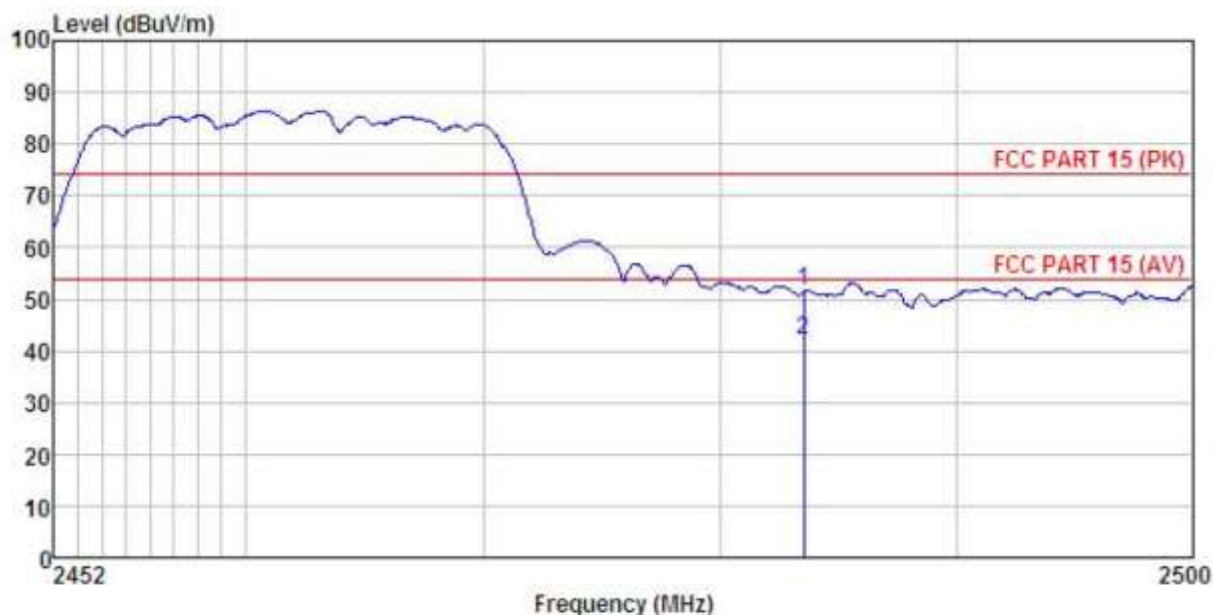
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11n20-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	19.18	27.57	4.81	0.00	51.56	74.00	-22.44 Peak
2	2483.500	8.97	27.57	4.81	0.00	41.35	54.00	-12.65 Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11n20-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YI
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	19.11	27.57	4.81	0.00	51.49	74.00	-22.51	Peak
2	2483.500	9.85	27.57	4.81	0.00	42.23	54.00	-11.77	Average

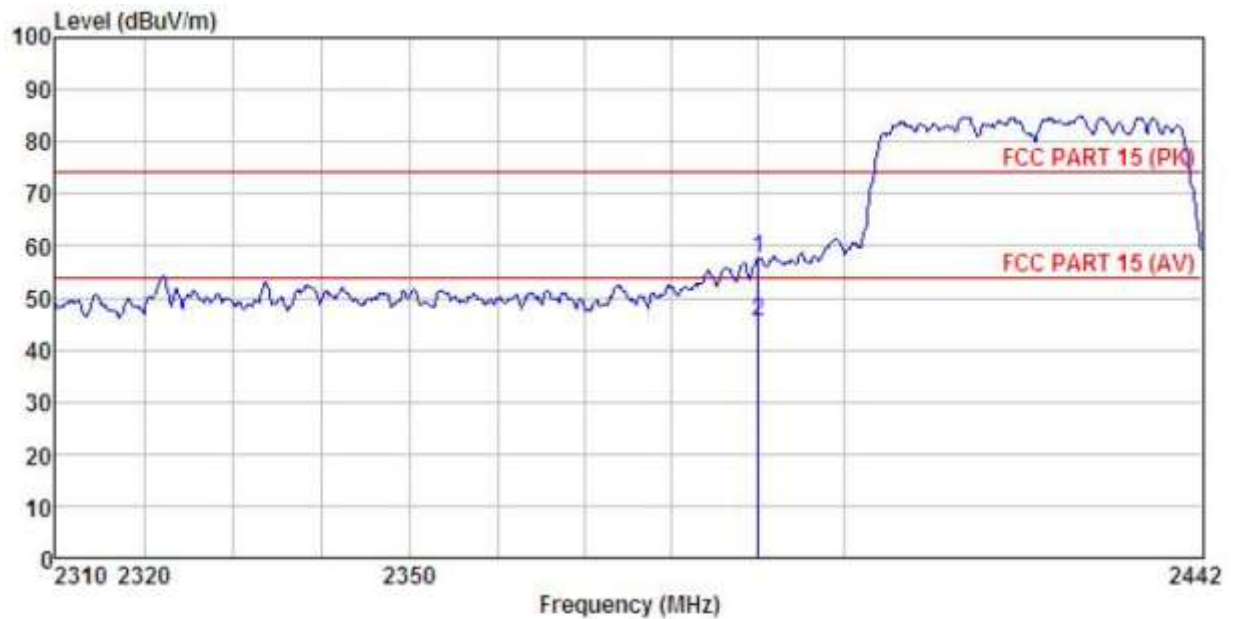
Remark:

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

802.11n (H40)

Test channel: Lowest channel

Test Polarization: Horizontal



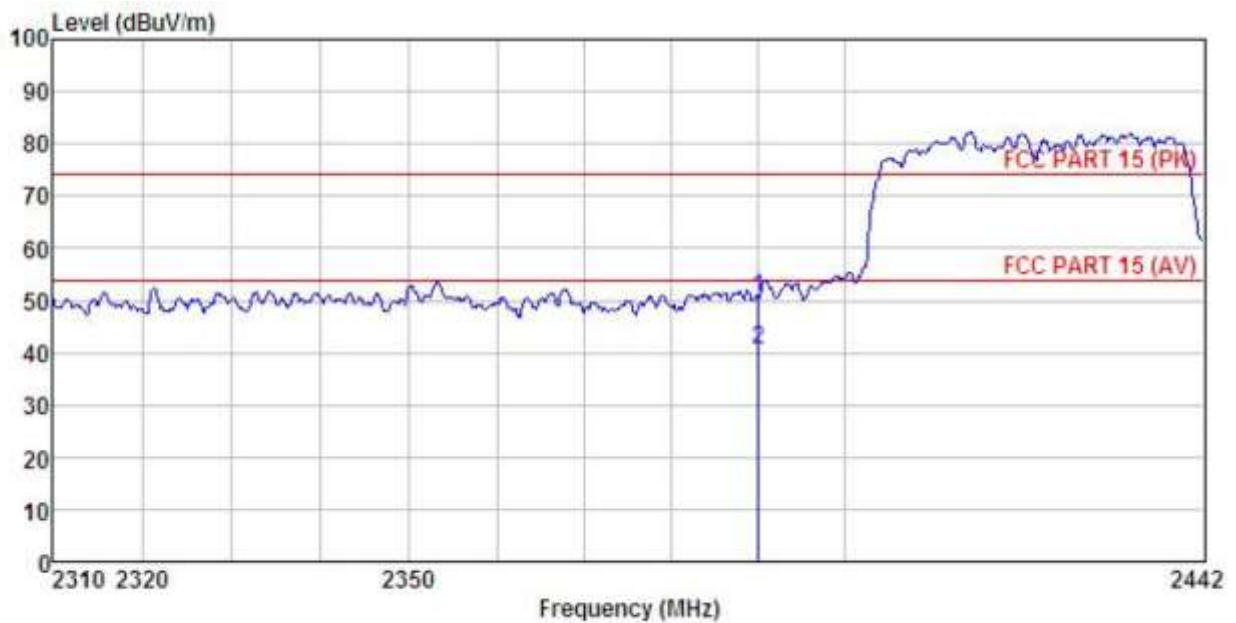
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11n40-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YI
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	25.67	27.37	4.69	0.00	57.73	74.00	-16.27 Peak
2	2390.000	13.33	27.37	4.69	0.00	45.39	54.00	-8.61 Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11n40-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

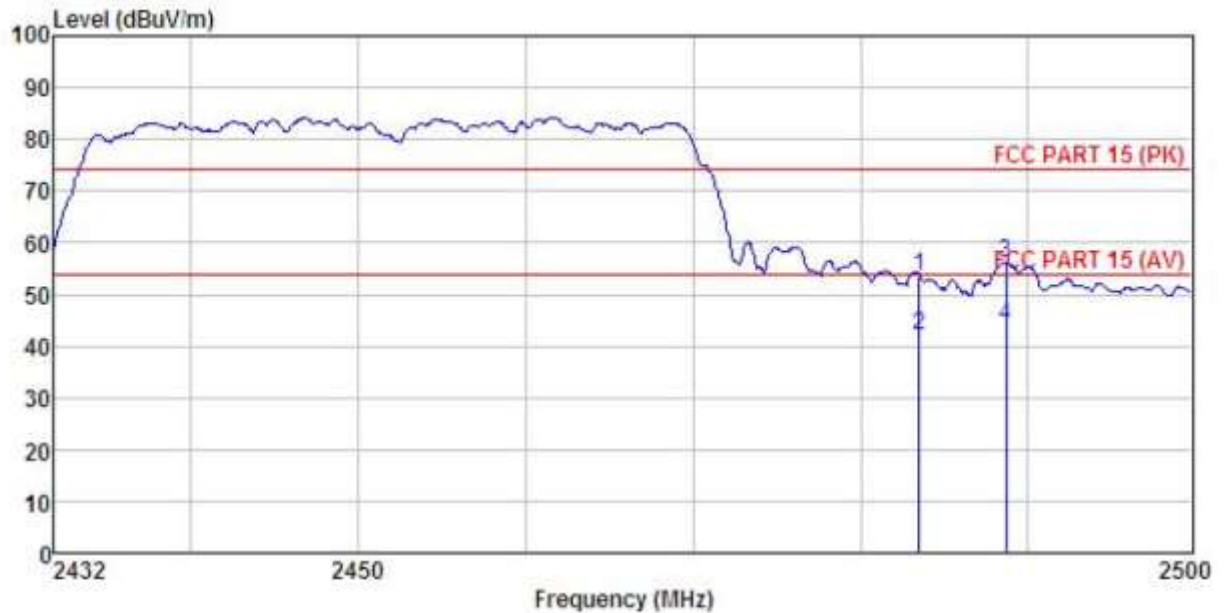
	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	18.47	27.37	4.69	0.00	50.53	74.00	-23.47	Peak
2	2390.000	8.55	27.37	4.69	0.00	40.61	54.00	-13.39	Average

Remark:

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

Test channel: Highest channel

Test Polarization: Horizontal



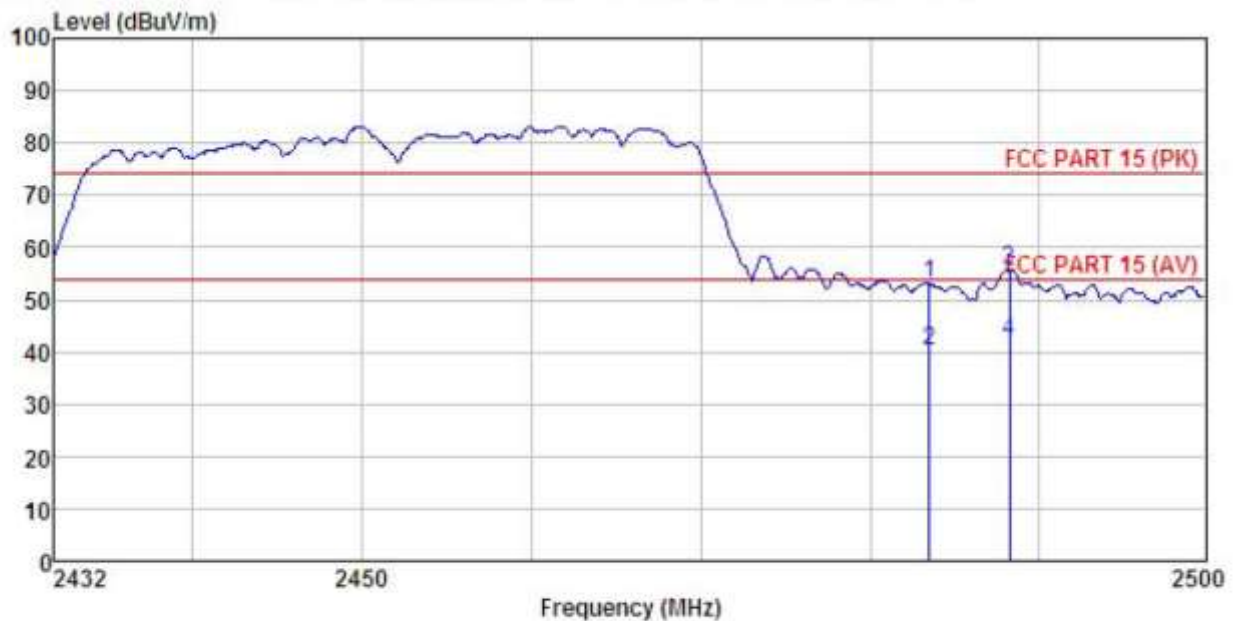
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11n40-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	21.25	27.57	4.81	0.00	53.63	74.00	-20.37	Peak
2	2483.500	9.86	27.57	4.81	0.00	42.24	54.00	-11.76	Average
3	2488.719	23.83	27.59	4.81	0.00	56.23	74.00	-17.77	Peak
4	2488.719	11.46	27.59	4.81	0.00	43.86	54.00	-10.14	Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 802.11n40-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

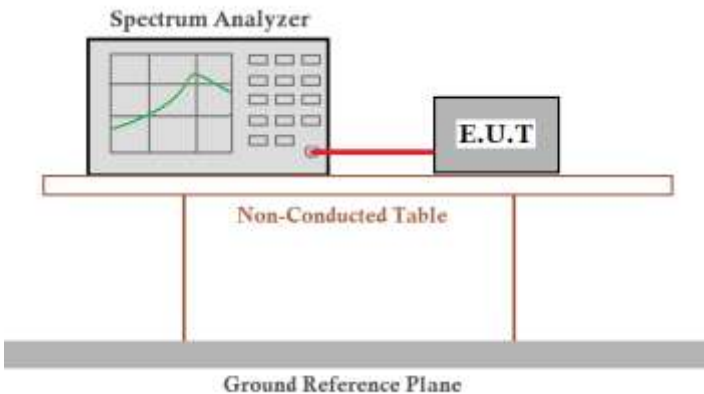
	Freq	ReadAntenna	Cable Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	2483.500	20.66	27.57	4.81	0.00	53.04	74.00 -20.96 Peak
2	2483.500	7.85	27.57	4.81	0.00	40.23	54.00 -13.77 Average
3	2488.307	23.46	27.59	4.81	0.00	55.86	74.00 -18.14 Peak
4	2488.307	9.62	27.59	4.81	0.00	42.02	54.00 -11.98 Average

Remark:

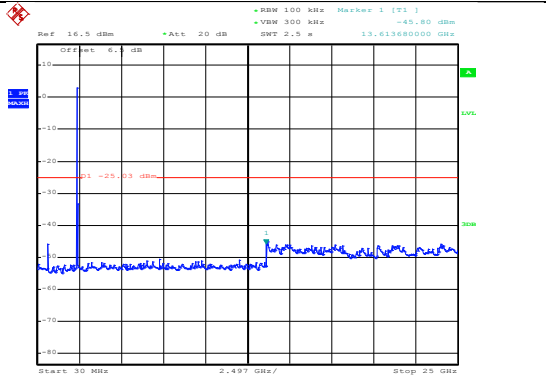
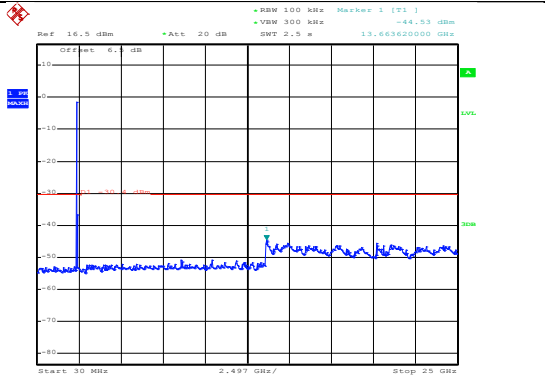
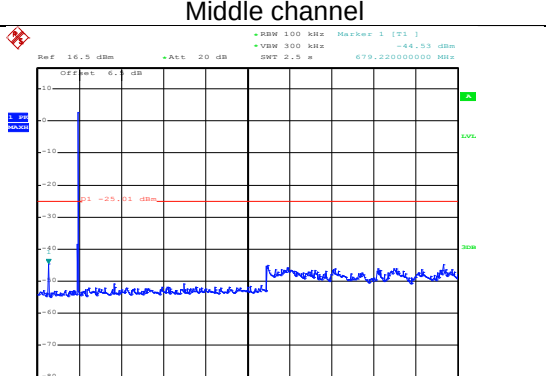
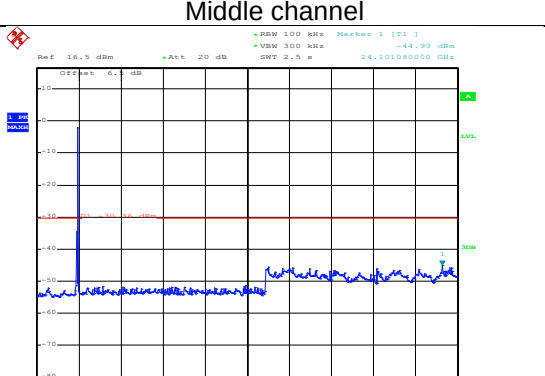
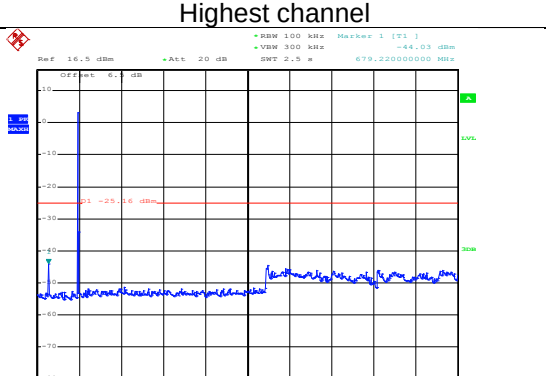
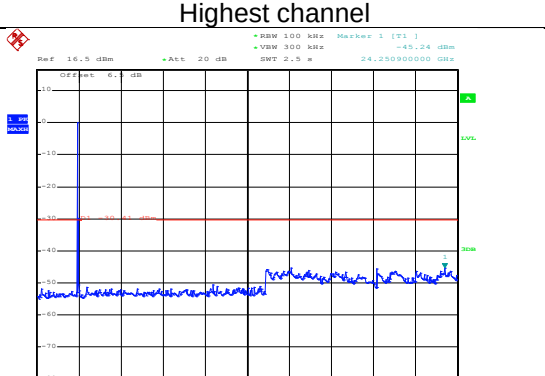
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

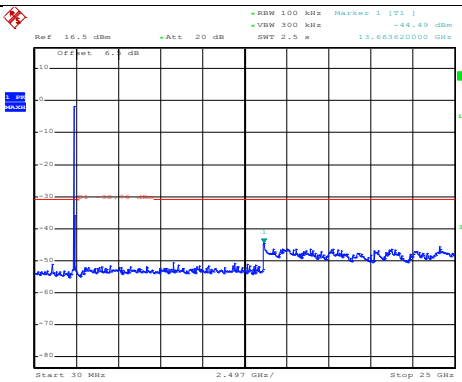
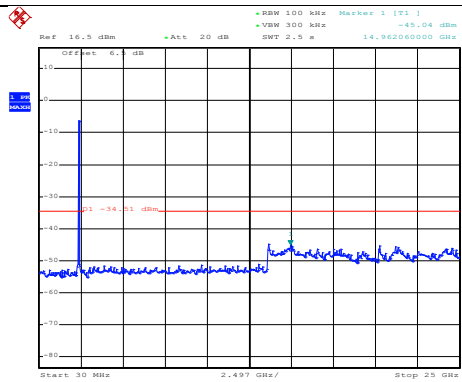
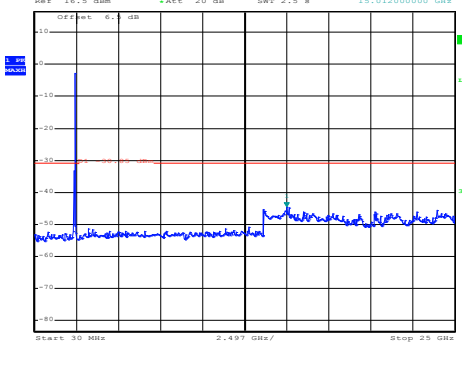
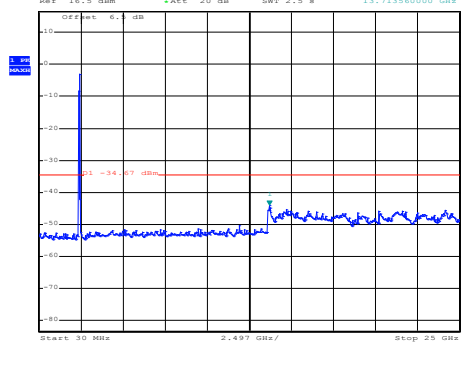
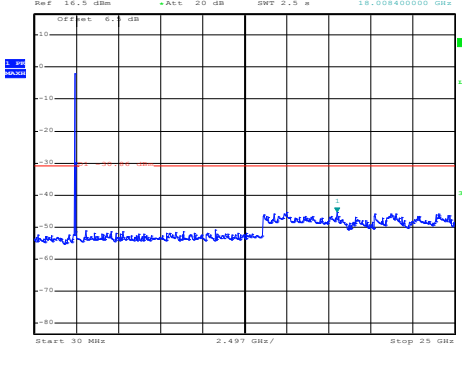
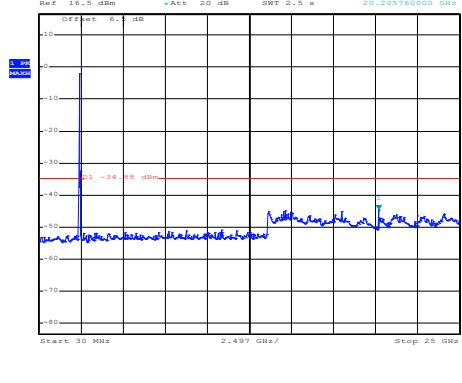
6.7 Spurious Emission

6.7.1 Conducted Emission Method

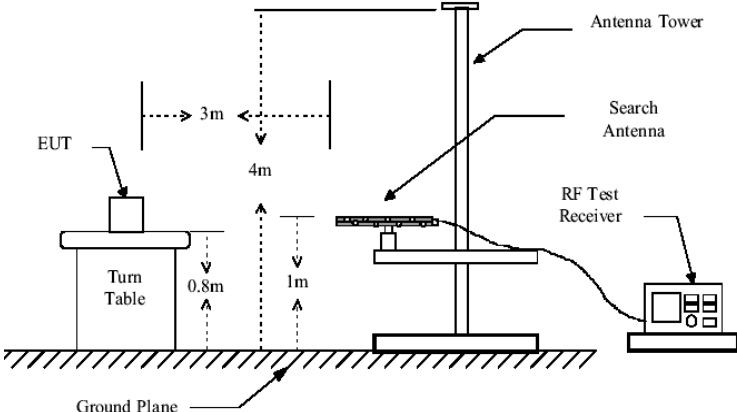
Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	 The diagram illustrates the test setup for conducted emissions. A Spectrum Analyzer is connected to an Equipment Under Test (E.U.T.) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

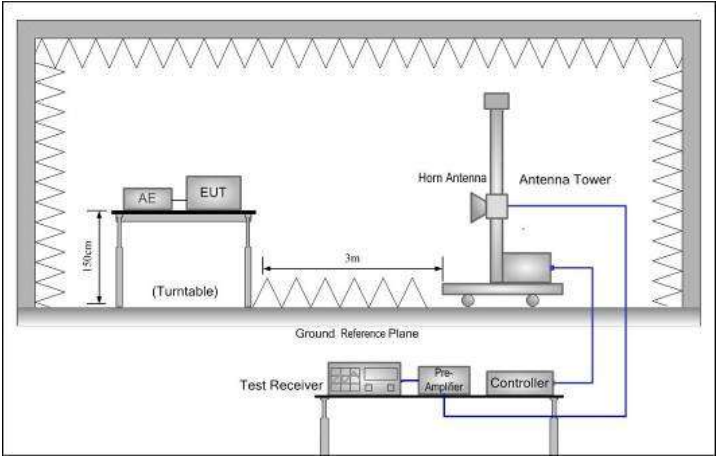
Test plot as follows:

Test mode: 802.11b Lowest channel  Date: 21 JUN 2018 18:45:52	Test mode: 802.11g Lowest channel  Date: 21 JUN 2018 18:46:54
30MHz~25GHz	30MHz~25GHz
Middle channel  Date: 21 JUN 2018 18:46:12	Middle channel  Date: 21 JUN 2018 18:47:10
30MHz~25GHz	30MHz~25GHz
Highest channel  Date: 21 JUN 2018 18:46:31	Highest channel  Date: 21 JUN 2018 18:47:26
30MHz~25GHz	30MHz~25GHz

Test mode: 802.11n(H20) Lowest channel  Date: 21.JUN.2018 18:47:48	Test mode: 802.11n(H40) Lowest channel  Date: 21.JUN.2018 18:48:43
30MHz~25GHz	30MHz~25GHz
Middle channel  Date: 21.JUN.2018 18:48:06	Middle channel  Date: 21.JUN.2018 18:49:08
30MHz~25GHz	30MHz~25GHz
Highest channel  Date: 21.JUN.2018 18:48:27	Highest channel  Date: 21.JUN.2018 18:49:31
30MHz~25GHz	30MHz~25GHz

6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
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 Procedure:	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 setup:	Below 1GHz 				

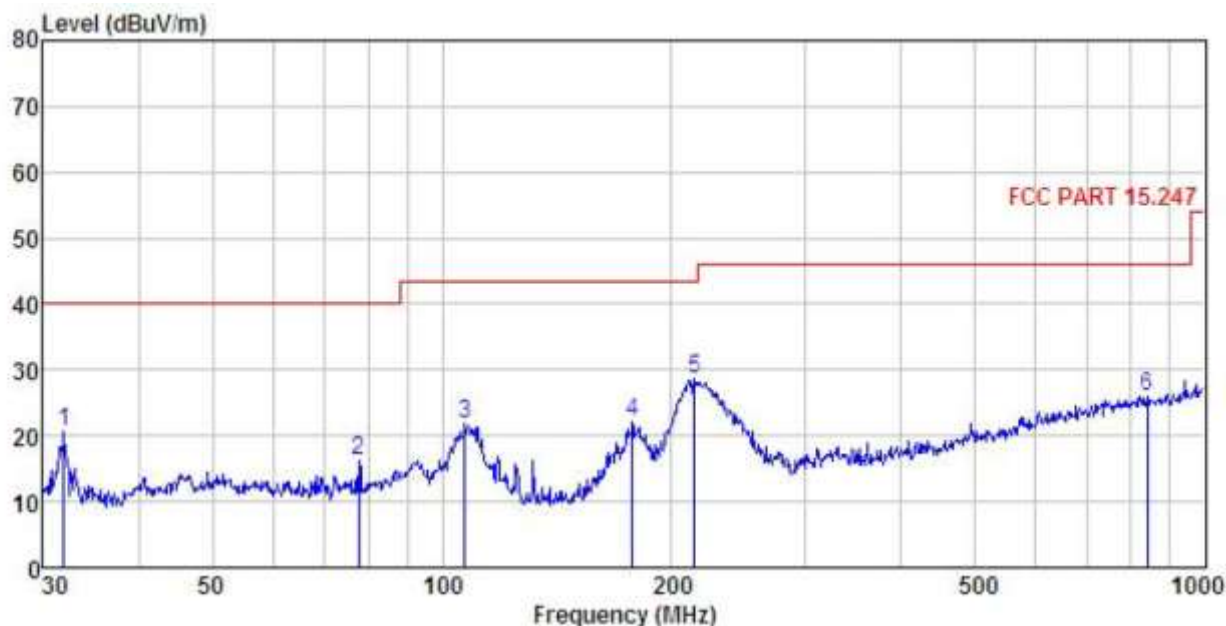
	Above 1GHz 
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.

Adapter(1)

Measurement Data (worst case):

Below 1GHz:

Test Polarization: Horizontal



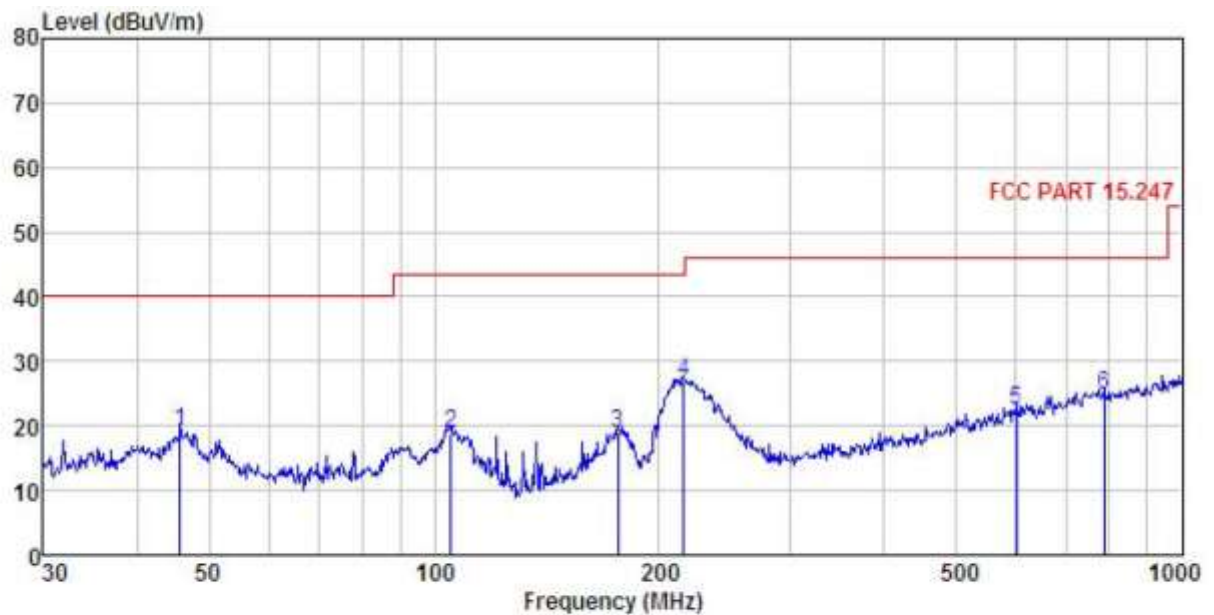
Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 2.4GWIFI Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
	MHz	Level	Factor	Loss Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	31.955	38.59	11.05	0.85	29.97	20.52	40.00 -19.48 QP
2	77.865	35.99	8.30	1.64	29.66	16.27	40.00 -23.73 QP
3	107.134	37.04	12.13	2.02	29.48	21.71	43.50 -21.79 QP
4	177.509	38.63	9.70	2.71	28.99	22.05	43.50 -21.45 QP
5	214.514	42.34	12.07	2.85	28.74	28.52	43.50 -14.98 QP
6	839.182	28.64	21.24	4.22	28.04	26.06	46.00 -19.94 QP

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 2.4GWIFI Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	45.695	34.03	13.76	1.29	29.85	19.23	40.00	-20.77	QP
2	105.272	34.41	12.02	2.00	29.49	18.94	43.50	-24.56	QP
3	176.269	35.58	9.65	2.70	29.00	18.93	43.50	-24.57	QP
4	215.268	40.54	12.09	2.85	28.73	26.75	43.50	-16.75	QP
5	601.427	28.08	19.22	3.94	28.93	22.31	46.00	-23.69	QP
6	787.851	27.75	21.00	4.35	28.26	24.84	46.00	-21.16	QP

Remark:

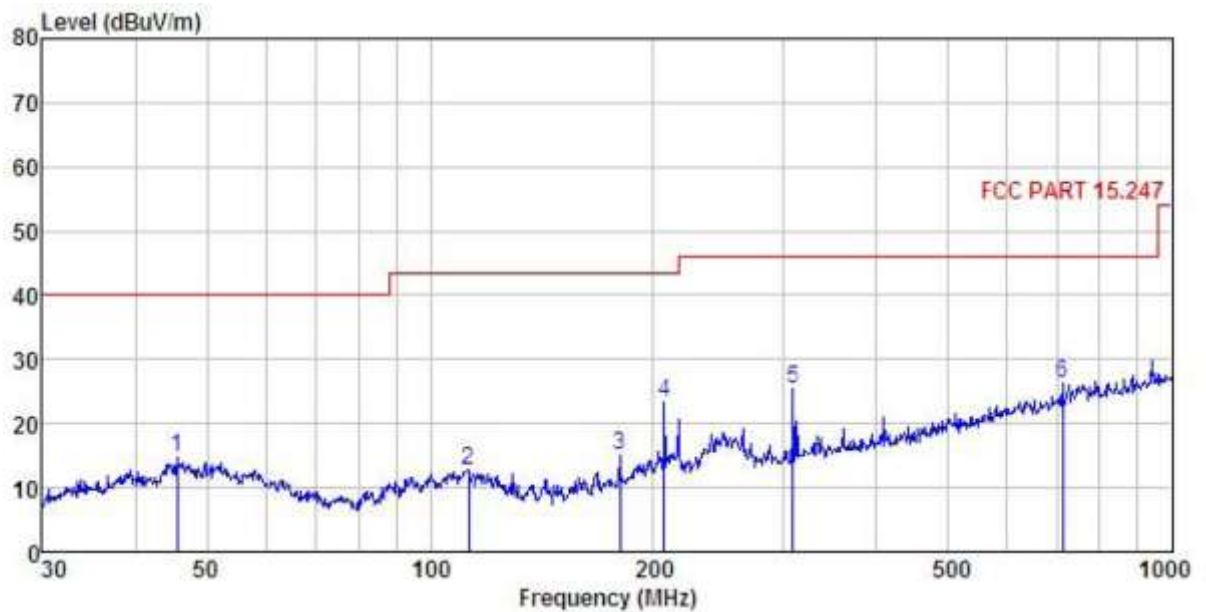
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Adapter (2)

Measurement Data (worst case):

Below 1GHz:

Test Polarization: Horizontal



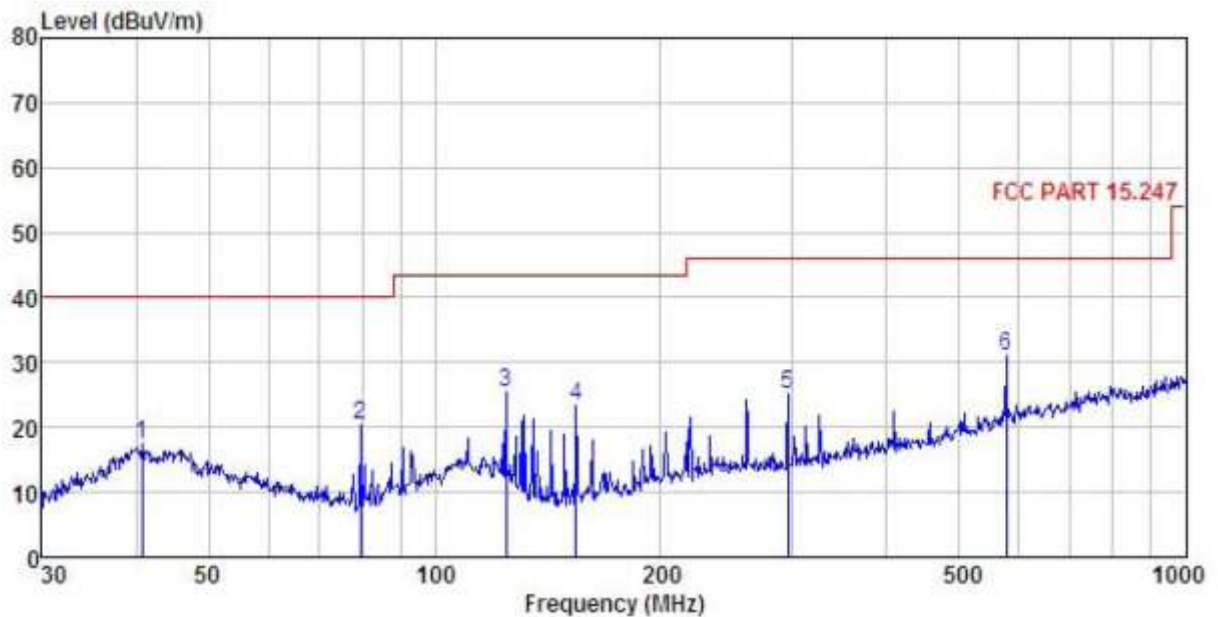
Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 2.4GWIFI Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK : HJ-0501000E1-US

	Read	Antenna	Cable	Preamp	Level	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	45.535	29.54	13.74	1.29	29.86	14.71	40.00	-25.29 QP
2	112.524	28.39	11.75	2.08	29.44	12.78	43.50	-30.72 QP
3	180.017	31.60	9.80	2.73	28.97	15.16	43.50	-28.34 QP
4	207.123	37.38	11.78	2.86	28.78	23.24	43.50	-20.26 QP
5	308.913	37.16	13.79	2.97	28.47	25.45	46.00	-20.55 QP
6	711.674	30.56	20.09	4.22	28.62	26.25	46.00	-19.75 QP

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 2.4GWIFI Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YI
 REMARK : HJ-0501000E1-US

	Freq	Read	Antenna	Cable	Preamp		Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	40.702	33.06	12.93	1.22	29.89	17.32	40.00	-22.68	
2	79.521	40.29	8.14	1.65	29.64	20.44	40.00	-19.56	
3	124.569	43.08	9.50	2.22	29.36	25.44	43.50	-18.06	
4	154.279	41.20	8.82	2.55	29.18	23.39	43.50	-20.11	
5	295.147	37.10	13.57	2.93	28.46	25.14	46.00	-20.86	
6	576.644	37.42	18.65	3.92	29.01	30.98	46.00	-15.02	

Remark:

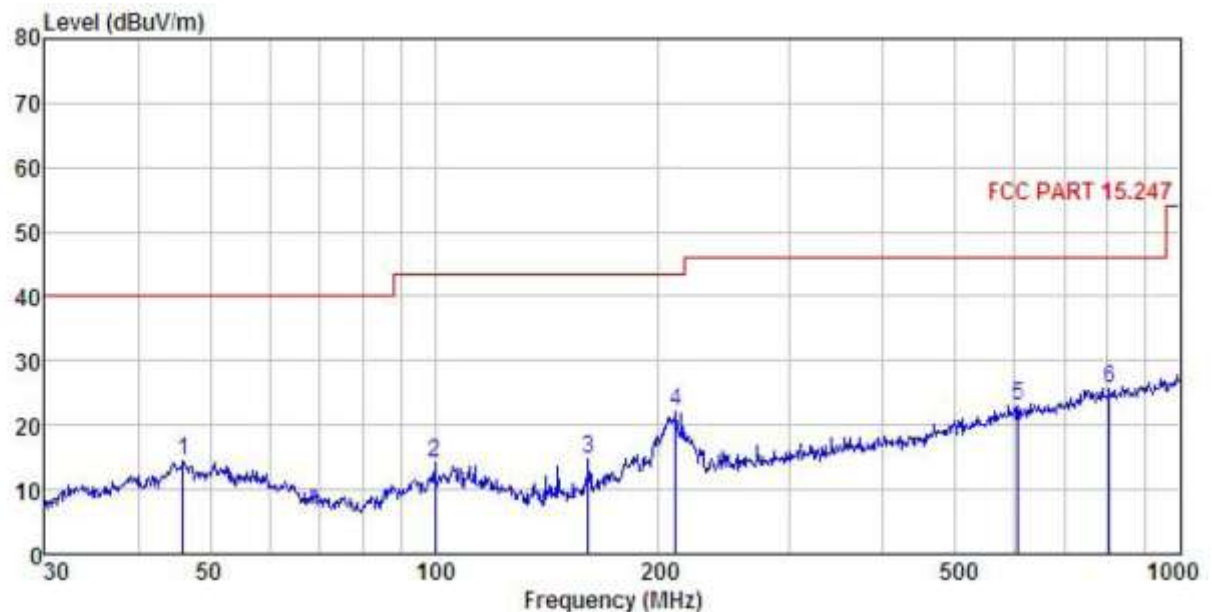
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Adapter (3)

Measurement Data (worst case):

Below 1GHz:

Test Polarization: Horizontal



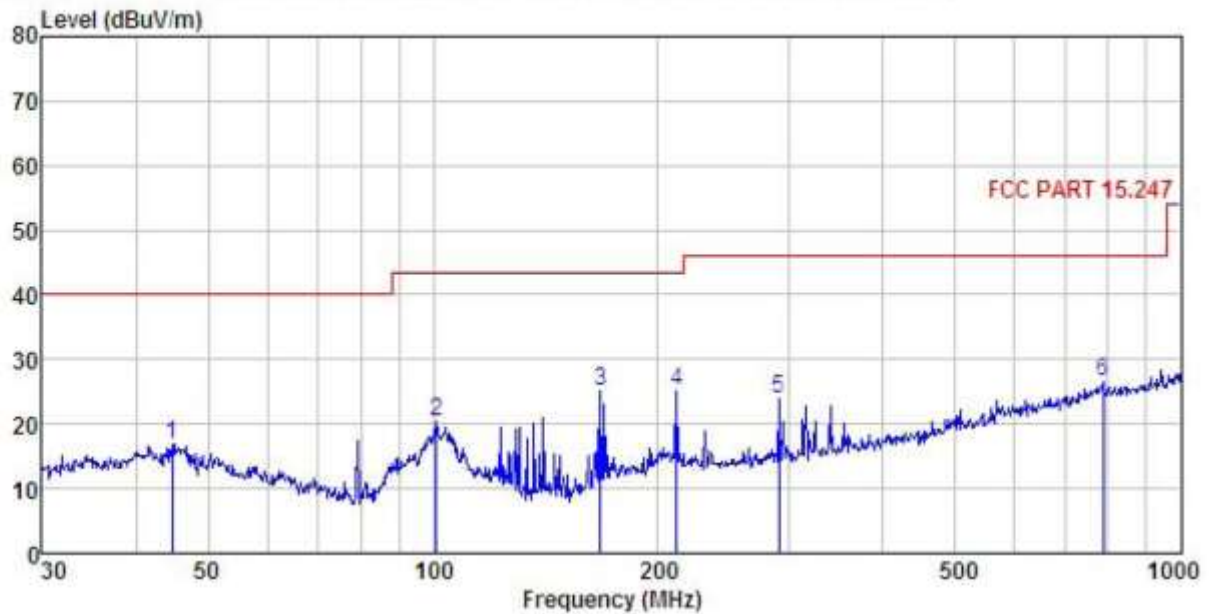
Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 2.4GWIFI Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK : HJ-0501000B3-EU

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	46.016	29.38	13.78	1.28	29.85	14.59	40.00	-25.41	QP
2	100.229	29.92	11.71	1.94	29.53	14.04	43.50	-29.46	QP
3	160.909	32.19	9.13	2.60	29.12	14.80	43.50	-28.70	QP
4	210.786	36.15	11.92	2.86	28.76	22.17	43.50	-21.33	QP
5	605.659	28.82	19.27	3.93	28.92	23.10	46.00	-22.90	QP
6	804.603	28.56	21.03	4.33	28.18	25.74	46.00	-20.26	QP

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 2.4GWIFI Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK : HJ-0501000B3-EU

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	Limit	Remark
		dBuV	dB/m	dB	dB			dB	
1	44.743	31.89	13.66	1.28	29.86	16.97	40.00	-23.03	QP
2	100.934	36.20	11.76	1.95	29.52	20.39	43.50	-23.11	QP
3	167.237	42.25	9.32	2.64	29.07	25.14	43.50	-18.36	QP
4	211.527	38.98	11.95	2.86	28.76	25.03	43.50	-18.47	QP
5	290.017	35.83	13.54	2.91	28.47	23.81	46.00	-22.19	QP
6	787.851	29.50	21.00	4.35	28.26	26.59	46.00	-19.41	QP

Remark:

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

Above 1GHz

802.11b								
Test channel: Lowest channel								
Detector: Peak Value								
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
4824.00	46.25	30.94	6.81	41.82	42.18	74.00	-31.82	Vertical
4824.00	45.26	30.94	6.81	41.82	41.19	74.00	-32.81	Horizontal
Detector: Average Value								
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
4824.00	36.64	30.94	6.81	41.82	32.57	54.00	-21.43	Vertical
4824.00	37.77	30.94	6.81	41.82	33.70	54.00	-20.30	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
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
4874.00	47.61	31.20	6.85	41.84	43.82	74.00	-30.18	Vertical
4874.00	49.62	31.20	6.85	41.84	45.83	74.00	-28.17	Horizontal
Detector: Average Value								
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
4874.00	36.25	31.20	6.85	41.84	32.46	54.00	-21.54	Vertical
4874.00	38.46	31.20	6.85	41.84	34.67	54.00	-19.33	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
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
4924.00	46.10	31.46	6.89	41.86	42.59	74.00	-31.41	Vertical
4924.00	47.70	31.46	6.89	41.86	44.19	74.00	-29.81	Horizontal
Detector: Average Value								
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
4924.00	35.61	31.46	6.89	41.86	32.10	54.00	-21.90	Vertical
4924.00	37.49	31.46	6.89	41.86	33.98	54.00	-20.02	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

802.11g								
Test channel: Lowest channel								
Detector: Peak Value								
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
4824.00	48.62	30.94	6.81	41.82	44.55	74.00	-29.45	Vertical
4824.00	49.22	30.94	6.81	41.82	45.15	74.00	-28.85	Horizontal
Detector: Average Value								
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
4824.00	39.62	30.94	6.81	41.82	35.55	54.00	-18.45	Vertical
4824.00	40.10	30.94	6.81	41.82	36.03	54.00	-17.97	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
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
4874.00	47.64	31.20	6.85	41.84	43.85	74.00	-30.15	Vertical
4874.00	49.13	31.20	6.85	41.84	45.34	74.00	-28.66	Horizontal
Detector: Average Value								
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
4874.00	38.62	31.20	6.85	41.84	34.83	54.00	-19.17	Vertical
4874.00	39.14	31.20	6.85	41.84	35.35	54.00	-18.65	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
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
4924.00	48.62	31.46	6.89	41.86	45.11	74.00	-28.89	Vertical
4924.00	49.51	31.46	6.89	41.86	46.00	74.00	-28.00	Horizontal
Detector: Average Value								
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
4924.00	39.62	31.46	6.89	41.86	36.11	54.00	-17.89	Vertical
4924.00	40.19	31.46	6.89	41.86	36.68	54.00	-17.32	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
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
4824.00	48.92	36.06	6.81	41.82	49.97	74.00	-24.03	Vertical
4824.00	49.55	36.06	6.81	41.82	50.60	74.00	-23.40	Horizontal
Detector: Average Value								
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
4824.00	39.62	36.06	6.81	41.82	40.67	54.00	-13.33	Vertical
4824.00	38.77	36.06	6.81	41.82	39.82	54.00	-14.18	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
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
4874.00	49.21	36.32	6.85	41.84	50.54	74.00	-23.46	Vertical
4874.00	48.15	36.32	6.85	41.84	49.48	74.00	-24.52	Horizontal
Detector: Average Value								
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
4874.00	39.62	36.32	6.85	41.84	40.95	54.00	-13.05	Vertical
4874.00	40.12	36.32	6.85	41.84	41.45	54.00	-12.55	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
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
4924.00	49.62	36.58	6.89	41.86	51.23	74.00	-22.77	Vertical
4924.00	48.15	36.58	6.89	41.86	49.76	74.00	-24.24	Horizontal
Detector: Average Value								
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
4924.00	39.62	36.58	6.89	41.86	41.23	54.00	-12.77	Vertical
4924.00	40.23	36.58	6.89	41.86	41.84	54.00	-12.16	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
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
4844.00	48.59	36.06	6.81	41.82	49.64	74.00	-24.36	Vertical
4844.00	49.22	36.06	6.81	41.82	50.27	74.00	-23.73	Horizontal
Detector: Average Value								
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
4844.00	39.62	36.06	6.81	41.82	40.67	54.00	-13.33	Vertical
4844.00	38.52	36.06	6.81	41.82	39.57	54.00	-14.43	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
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
4874.00	49.61	36.32	6.85	41.84	50.94	74.00	-23.06	Vertical
4874.00	48.74	36.32	6.85	41.84	50.07	74.00	-23.93	Horizontal
Detector: Average Value								
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
4874.00	39.62	36.32	6.85	41.84	40.95	54.00	-13.05	Vertical
4874.00	38.29	36.32	6.85	41.84	39.62	54.00	-14.38	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
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
4904.00	49.62	36.45	6.87	41.85	51.09	74.00	-22.91	Vertical
4904.00	48.29	36.45	6.87	41.85	49.76	74.00	-24.24	Horizontal
Detector: Average Value								
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
4904.00	39.62	36.45	6.87	41.85	41.09	54.00	-12.91	Vertical
4904.00	38.25	36.45	6.87	41.85	39.72	54.00	-14.28	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								