

# FCC RF Test Report

## (2.4G Wi-Fi)

**Applicant:** TECNO MOBILE LIMITED

**Address of Applicant:** FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT

**Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: CI8n

Trade mark: TECNO

**FCC ID:** 2ADYY-CI8N

**Applicable standards:** FCC CFR Title 47 Part 15C (§15.247)

**Date of sample receipt:** 25 Feb., 2022

**Date of Test:** 26 Feb., to 01 Apr., 2022

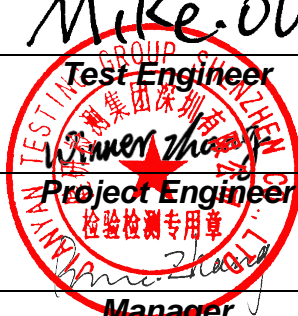
**Date of report issued:** 07 Apr., 2022

**Test Result:** PASS

**Tested by:** Mike Ou **Date:** 07 Apr., 2022  
*Test Engineer*

**Reviewed by:** Wenwen Zhang **Date:** 07 Apr., 2022  
*Project Engineer*

**Approved by:** Wenwen Zhang **Date:** 07 Apr., 2022  
*Manager*



This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

## 2 Version

Version No.	Date	Description
00	02 Apr., 2022	Original
01	07 Apr., 2022	Updated page 11

### 3 Contents

	Page
<b>1 COVER PAGE.....</b>	<b>1</b>
<b>2 VERSION.....</b>	<b>2</b>
<b>3 CONTENTS.....</b>	<b>3</b>
<b>4 GENERAL INFORMATION.....</b>	<b>4</b>
4.1 CLIENT INFORMATION.....	4
4.2 GENERAL DESCRIPTION OF E.U.T.....	4
4.3 TEST MODE AND ENVIRONMENT.....	5
4.4 DESCRIPTION OF SUPPORT UNITS.....	5
4.5 MEASUREMENT UNCERTAINTY.....	5
4.6 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD.....	5
4.7 LABORATORY FACILITY.....	6
4.8 LABORATORY LOCATION.....	6
4.9 TEST INSTRUMENTS LIST.....	6
<b>5 MEASUREMENT SETUP AND PROCEDURE.....</b>	<b>8</b>
5.1 TEST CHANNEL.....	8
5.2 TEST SETUP.....	8
5.3 TEST PROCEDURE.....	10
<b>6 TEST RESULTS.....</b>	<b>11</b>
6.1 SUMMARY.....	11
6.1.1 Clause and data summary.....	11
6.1.2 Test Limit.....	12
6.2 ANTENNA REQUIREMENT.....	13
6.3 CONDUCTED EMISSION.....	14
6.4 EMISSIONS IN RESTRICTED FREQUENCY BANDS.....	16
6.5 EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS.....	40

## 4 General Information

### 4.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Manufacturer:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

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

Product Name:	Mobile Phone
Model No.:	Cl8n
Operation Frequency:	2412 MHz - 2462 MHz (802.11b, g, n-HT20)
Channel numbers:	11 (802.11b, g, n-HT20)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	DSSS-DBPSK, DQPSK, CCK
Modulation technology: (IEEE 802.11g/802.11n)	OFDM-BPSK, QPSK, 16QAM, 64QAM
Antenna Type:	Internal Antenna
Antenna gain:	1.2 dBi (declare by applicant)
Antenna Number:	2
Antenna transmit mode:	SISO
Power supply:	Rechargeable Li-ion polymer Battery DC3.87V, 4900mAh
AC adapter:	Model: U330TSA Input: AC100-240V, 50/60Hz, 1.5A Output: DC 5.0V-3.0A 15.0W, 10.0V-3.3A 33.0W MAX
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

### 4.3 Test Mode and Environment

<b>Test mode:</b>	
Transmitting mode:	Keep the EUT in continuous transmitting with modulation
<b>Per-scan all kind of data rate, the follow list were the worst case:</b>	
<b>Mode</b>	<b>Data rate</b>
802.11b	1Mbps
802.11g	6Mbps
802.11n-VHT20	6.5Mbps
<i>Remark: For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan 802.11b, g, n modulation mode, found 802.11b modulation mode was worse case mode. The report only reflects the test data of worst mode.</i>	
<b>Operating Environment:</b>	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1010 mbar

### 4.4 Description of Support Units

The EUT has been tested as an independent unit.
---

### 4.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB
<i>Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.</i>	

### 4.6 Additions to, Deviations, or Exclusions from the Method

No
----

## 4.7 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

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

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen 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 L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

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

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 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>

## 4.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

## 4.9 Test Instruments list

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-17-2022	02-16-2023
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-17-2022	02-16-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	02-17-2022	02-16-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	02-17-2022	02-16-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	02-17-2022	02-16-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	02-17-2022	02-16-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2021	11-26-2022
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	04-06-2021	04-05-2022
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	02-17-2022	02-16-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	02-17-2022	02-16-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	02-17-2022	02-16-2023
Test Software	Tonscend	TS+	Version: 3.0.0.1		

<b>Conducted Emission:</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Manage No.</b>	<b>Cal.Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
EMI Test Receiver	Rohde & Schwarz	ESCI 3	WXJ003	02-17-2022	02-16-2023
RF Switch	TOP PRECISION	RSU0301	WXG003	02-17-2022	02-16-2023
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	02-17-2022	02-16-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-18-2021	06-17-2022
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-17-2022	02-16-2023
Test Software	AUDIX	E3	Version: 6.110919b		

<b>Conducted Method:</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Manage No.</b>	<b>Cal. Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
Spectrum Analyzer	Keysight	N9010B	WXJ004-3	10-25-2021	10-24-2022
Vector Signal Generator	Keysight	N5182B	WXJ006-6	10-25-2021	10-24-2022
Signal Generator	Keysight	N5173B	WXJ006-4	10-25-2021	10-24-2022
Wireless Connectivity Tester	Rohde & Schwarz	CMW270	WXJ008-7	10-25-2021	10-24-2022
DC Power Supply	Keysight	E3642A	WXJ025-2	10-25-2021	10-24-2022
Temperature Humidity Chamber	HONG ZHI	CZ-A-80D	WXJ032-3	02-19-2022	02-18-2023
Power Detector Box	MWRFTEST	MW100-PSB	WXJ007-4	10-25-2021	10-24-2022
RF Control Unit	MWRFTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTEST	MTS 8310	Version: 2.0.0.0		

## 5 Measurement setup and procedure

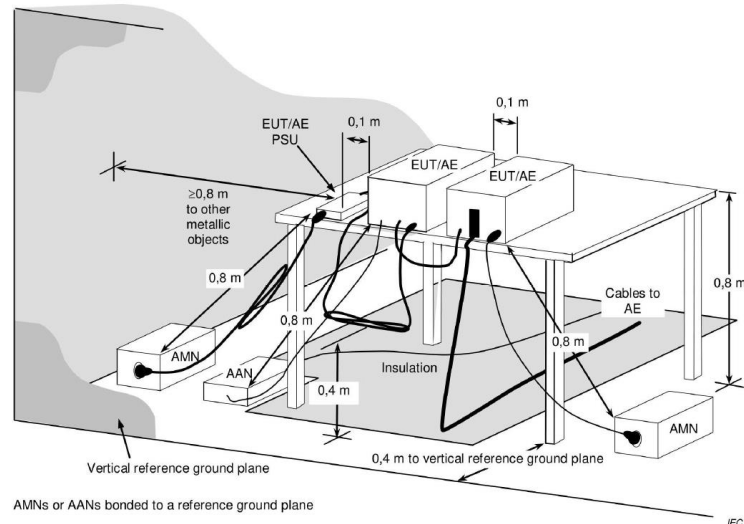
### 5.1 Test channel

According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

802.11b, 802.11g, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462

### 5.2 Test setup

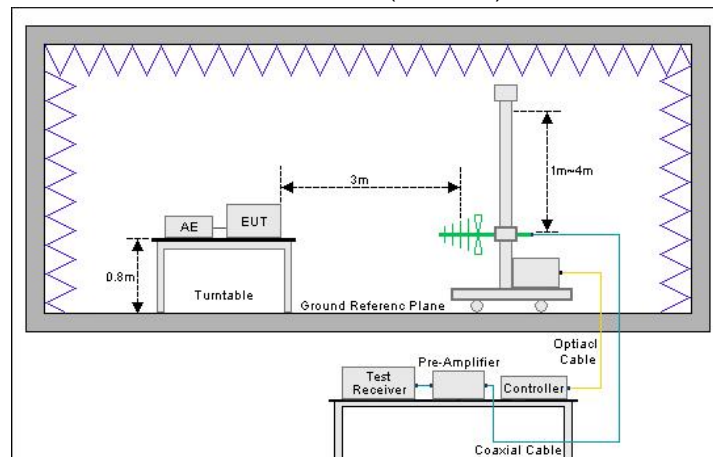
#### 1) Conducted emission measurement:



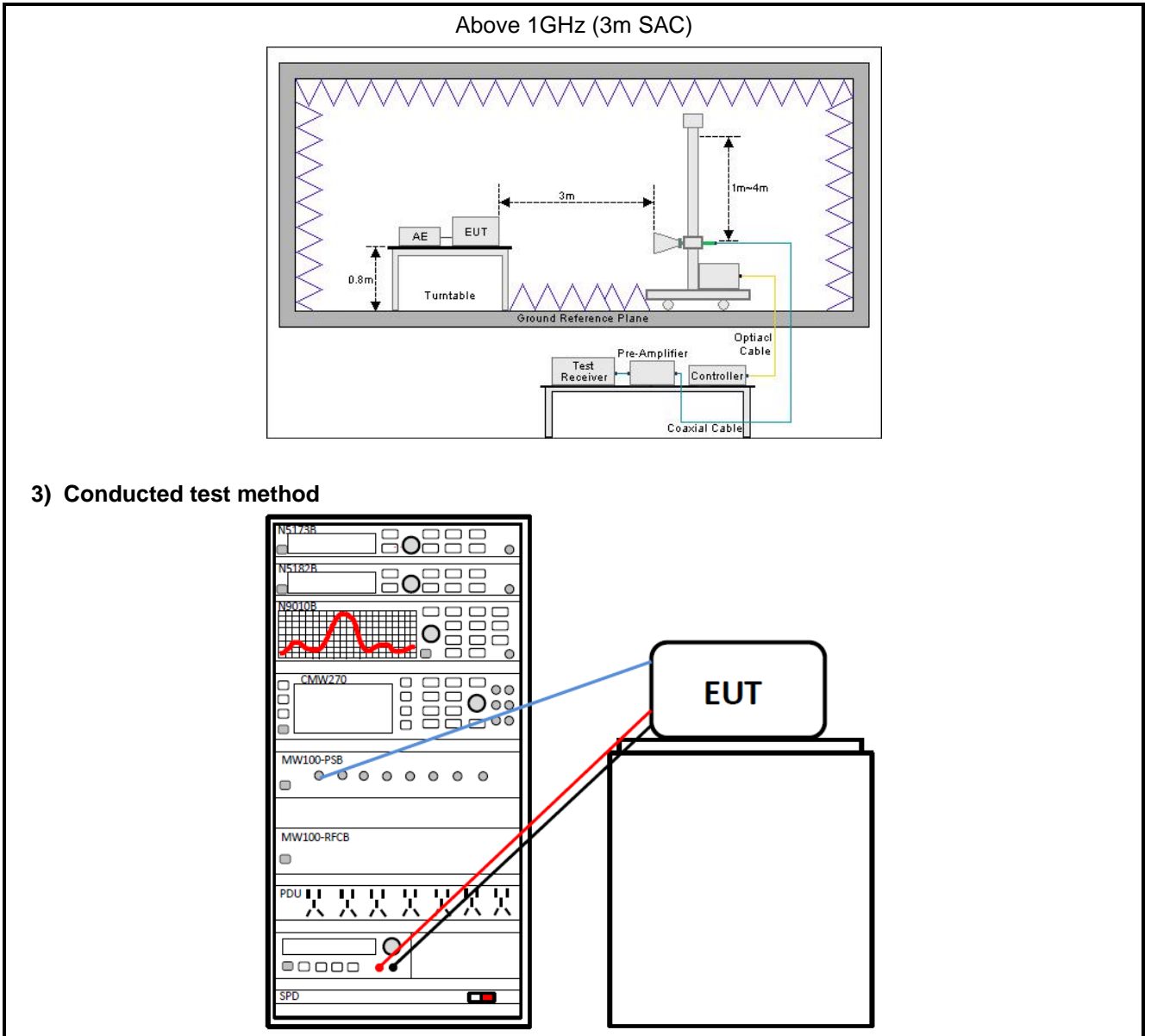
**Note:** The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

#### 2) Radiated emission measurement:

Below 1GHz (3m SAC)







### 5.3 Test procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</li> </ol>
Radiated emission	<p><b>For below 1GHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> <p><b>For above 1GHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol>
Conducted test method	<ol style="list-style-type: none"> <li>1. The Wi-Fi antenna port of EUT was connected to the test port of the test system through an RF cable.</li> <li>2. The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li> <li>3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.</li> </ol>

## 6 Test Results

### 6.1 Summary

#### 6.1.1 Clause and data summary

Test Items	FCC Part Section(s)	Test Data	Result
Antenna Requirement	15.203 15.247 (b)(4)	See Section 6.2	Pass
AC Power Line Conducted Emission	15.207	See Section 6.3	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A– 2.4G Wi-Fi AUX Appendix A– 2.4G Wi-Fi MAIN	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A– 2.4G Wi-Fi AUX Appendix A– 2.4G Wi-Fi MAIN	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A– 2.4G Wi-Fi AUX Appendix A– 2.4G Wi-Fi MAIN	Pass
Power Spectral Density	15.247 (e)	Appendix A– 2.4G Wi-Fi AUX Appendix A– 2.4G Wi-Fi MAIN	Pass
Band-edge Emission Conduction Spurious	15.247 (d)	Appendix A– 2.4G Wi-Fi AUX Appendix A– 2.4G Wi-Fi MAIN	Pass
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	See Section 6.4	Pass
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	See Section 6.5	Pass
<b>Remark:</b> 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 3. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (provided by the customer).			
<b>Test Method:</b>	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02		

### 6.1.2 Test Limit

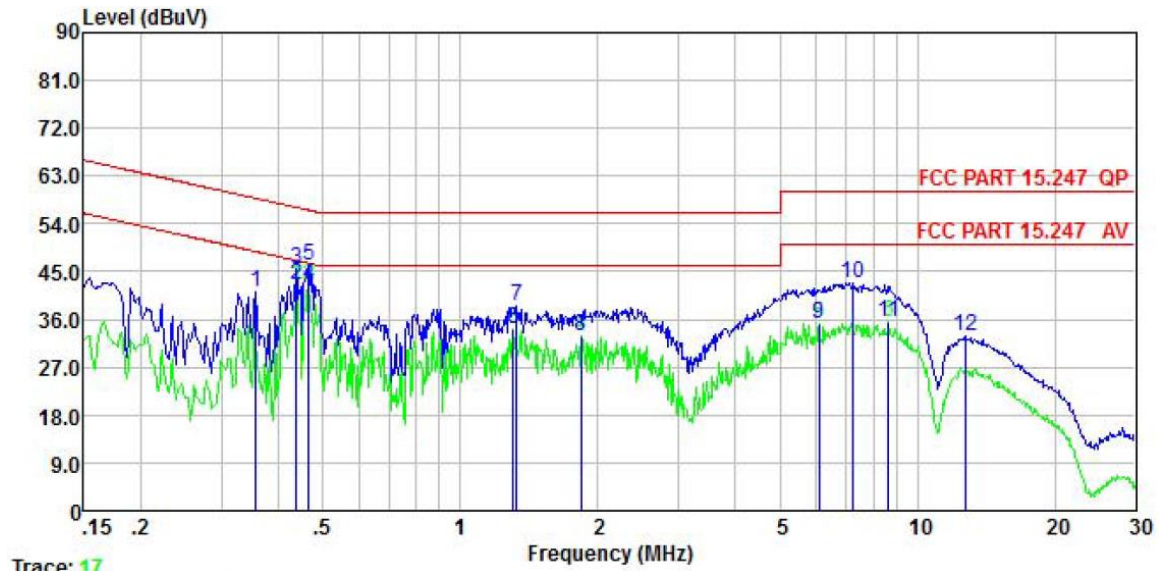
Items	Limit																							
AC Power Line Conducted Emission	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	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									
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																						
Conducted Peak Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.																							
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.																							
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.																							
Band-edge Emission Conduction Spurious	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).																							
Emissions in Restricted Frequency Bands	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>30 MHz – 88 MHz</td> <td>40.0</td> <td>Quasi-peak</td> </tr> <tr> <td>88 MHz – 216 MHz</td> <td>43.5</td> <td>Quasi-peak</td> </tr> <tr> <td>216 MHz – 960 MHz</td> <td>46.0</td> <td>Quasi-peak</td> </tr> <tr> <td>960 MHz – 1000 MHz</td> <td>54.0</td> <td>Quasi-peak</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average value</td> </tr> <tr> <td>74.0</td> <td>Peak value</td> </tr> </tbody> </table>	Frequency	Limit (dBuV/m @3m)	Detector	30 MHz – 88 MHz	40.0	Quasi-peak	88 MHz – 216 MHz	43.5	Quasi-peak	216 MHz – 960 MHz	46.0	Quasi-peak	960 MHz – 1000 MHz	54.0	Quasi-peak	Above 1GHz	54.0	Average value	74.0	Peak value			
Frequency	Limit (dBuV/m @3m)	Detector																						
30 MHz – 88 MHz	40.0	Quasi-peak																						
88 MHz – 216 MHz	43.5	Quasi-peak																						
216 MHz – 960 MHz	46.0	Quasi-peak																						
960 MHz – 1000 MHz	54.0	Quasi-peak																						
Above 1GHz	54.0	Average value																						
	74.0	Peak value																						
Emissions in Non-restricted Frequency Bands	<p><b>Below 1GHz (Measurement distance for 3 m):</b></p> <table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> </tbody> </table> <p><b>Above 1GHz (Measurement distance for 3 m):</b></p> <table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>	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	Frequency	Limit (dBuV/m @3m)	Remark	Above 1GHz	54.0	Average Value	74.0	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																						
30MHz-88MHz	40.0	Quasi-peak Value																						
88MHz-216MHz	43.5	Quasi-peak Value																						
216MHz-960MHz	46.0	Quasi-peak Value																						
960MHz-1GHz	54.0	Quasi-peak Value																						
Frequency	Limit (dBuV/m @3m)	Remark																						
Above 1GHz	54.0	Average Value																						
	74.0	Peak Value																						

## 6.2 Antenna requirement

<b>Standard requirement:</b>	FCC Part 15 C Section 15.203/15.247 (b)(4)
<p><b>15.203 requirement:</b> 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.</p> <p><b>15.247 (b)(4) requirement:</b> The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<b>E.U.T Antenna:</b>	
<p>The Wi-Fi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.2 dBi. See product internal photos for details.</p>	

### 6.3 Conducted Emission

Product name:	Mobile Phone	Product model:	CI8n
Test by:	Mike	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



Trace: 17

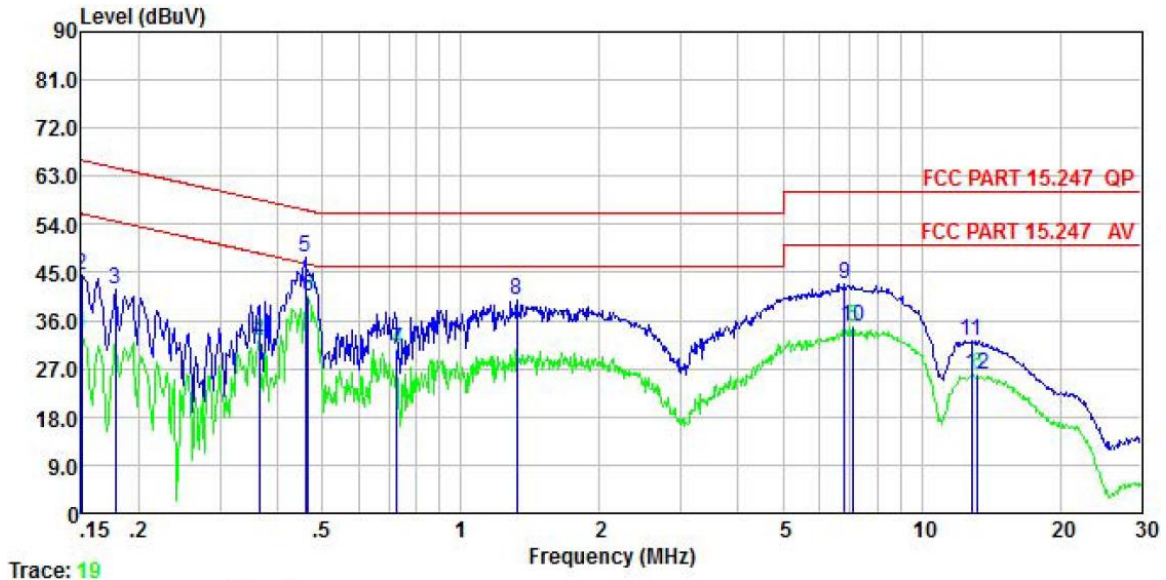
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.358	41.06	0.04	0.02	41.12	58.78	-17.66	QP
2	0.437	42.57	0.04	0.03	42.64	47.11	-4.47	Average
3	0.437	45.57	0.04	0.03	45.64	57.11	-11.47	QP
4	0.466	42.52	0.04	0.03	42.59	46.58	-3.99	Average
5	0.466	46.19	0.04	0.03	46.26	56.58	-10.32	QP
6	1.303	34.10	0.06	0.11	34.27	46.00	-11.73	Average
7	1.331	38.39	0.06	0.12	38.57	56.00	-17.43	QP
8	1.839	32.66	0.07	0.19	32.92	46.00	-13.08	Average
9	6.089	35.11	0.14	0.09	35.34	50.00	-14.66	Average
10	7.252	42.55	0.16	0.10	42.81	60.00	-17.19	QP
11	8.637	35.08	0.19	0.11	35.38	50.00	-14.62	Average
12	12.784	32.47	0.25	0.11	32.83	60.00	-27.17	QP

**Remark:**

1. Level = Read level + LISN Factor + Cable Loss.



<b>Product name:</b>	Mobile Phone	<b>Product model:</b>	C18n
<b>Test by:</b>	Mike	<b>Test mode:</b>	2.4G Wi-Fi mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Neutral
<b>Test voltage:</b>	AC 120 V/60 Hz		



Trace: 19

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	33.62	0.05	0.01	33.68	56.00	-22.32	Average
2	0.150	44.52	0.05	0.01	44.58	66.00	-21.42	QP
3	0.178	41.81	0.04	0.01	41.86	64.59	-22.73	QP
4	0.365	32.19	0.04	0.03	32.26	48.61	-16.35	Average
5	0.459	47.77	0.04	0.03	47.84	56.71	-8.87	QP
6	0.466	40.58	0.04	0.03	40.65	46.58	-5.93	Average
7	0.727	30.65	0.04	0.03	30.72	46.00	-15.28	Average
8	1.324	39.54	0.05	0.11	39.70	56.00	-16.30	QP
9	6.805	42.64	0.14	0.10	42.88	60.00	-17.12	QP
10	7.100	34.64	0.14	0.10	34.88	50.00	-15.12	Average
11	12.852	32.03	0.23	0.11	32.37	60.00	-27.63	QP
12	13.267	25.69	0.23	0.11	26.03	50.00	-23.97	Average

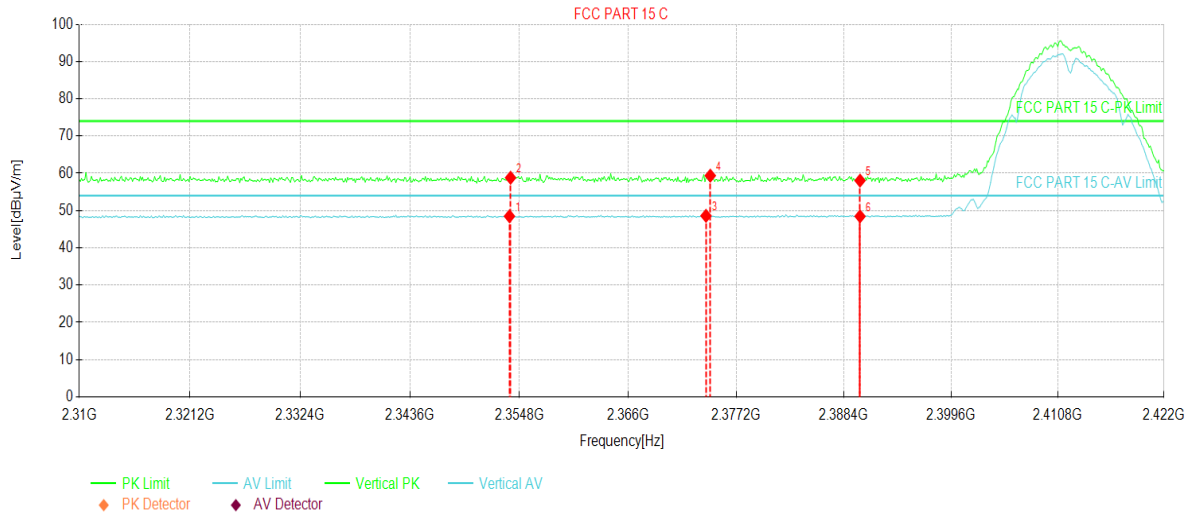
**Remark:**

1. Level = Read level + LISN Factor + Cable Loss.

## 6.4 Emissions in Restricted Frequency Bands

AUX:

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	Cl8n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		



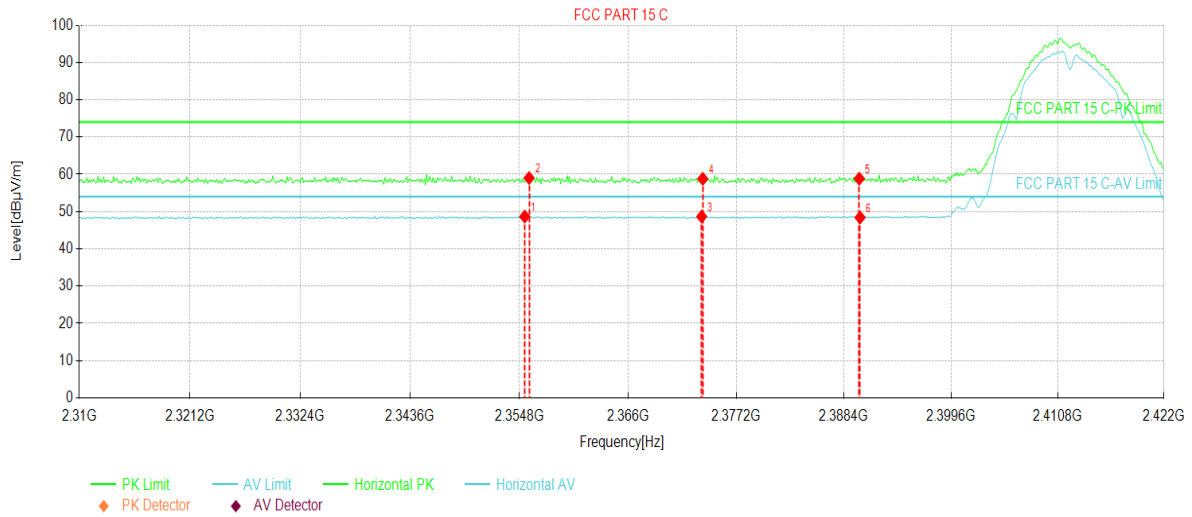
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2353.79	12.90	48.48	35.58	54.00	5.52	AV	Vertical
2	2353.90	23.23	58.81	35.58	74.00	15.19	PK	Vertical
3	2374.06	12.86	48.59	35.73	54.00	5.41	AV	Vertical
4	2374.51	23.64	59.37	35.73	74.00	14.63	PK	Vertical
5	2390.08	22.21	58.05	35.84	74.00	15.95	PK	Vertical
6	2390.08	12.61	48.45	35.84	54.00	5.55	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		

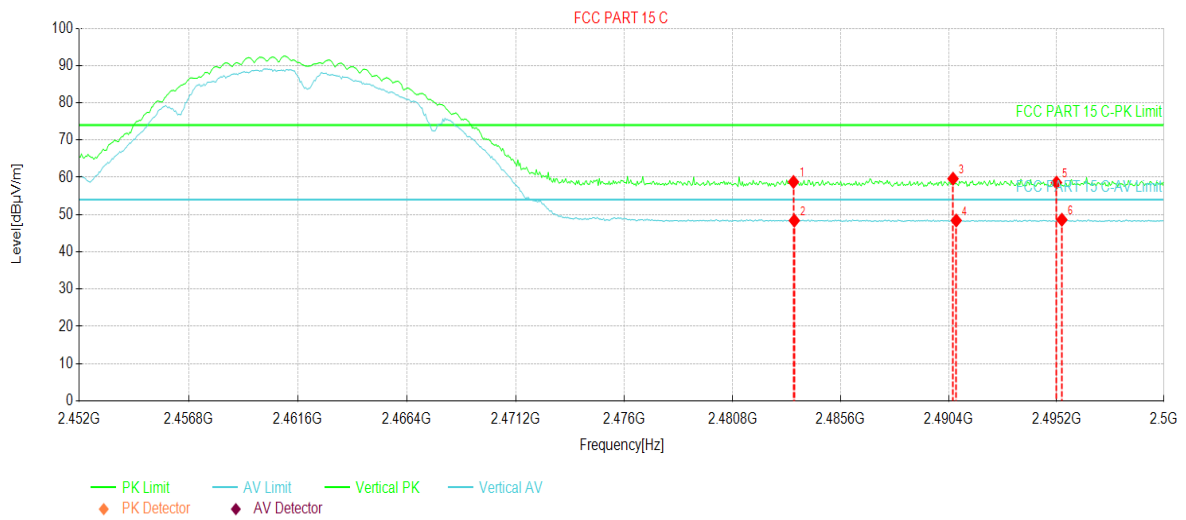


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2355.36	13.06	48.65	35.59	54.00	5.35	AV	Horizontal
2	2355.80	23.41	59.01	35.60	74.00	14.99	PK	Horizontal
3	2373.61	12.94	48.66	35.72	54.00	5.34	AV	Horizontal
4	2373.72	23.06	58.78	35.72	74.00	15.22	PK	Horizontal
5	2390.00	22.98	58.82	35.84	74.00	15.18	PK	Horizontal
6	2390.08	12.56	48.40	35.84	54.00	5.60	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		

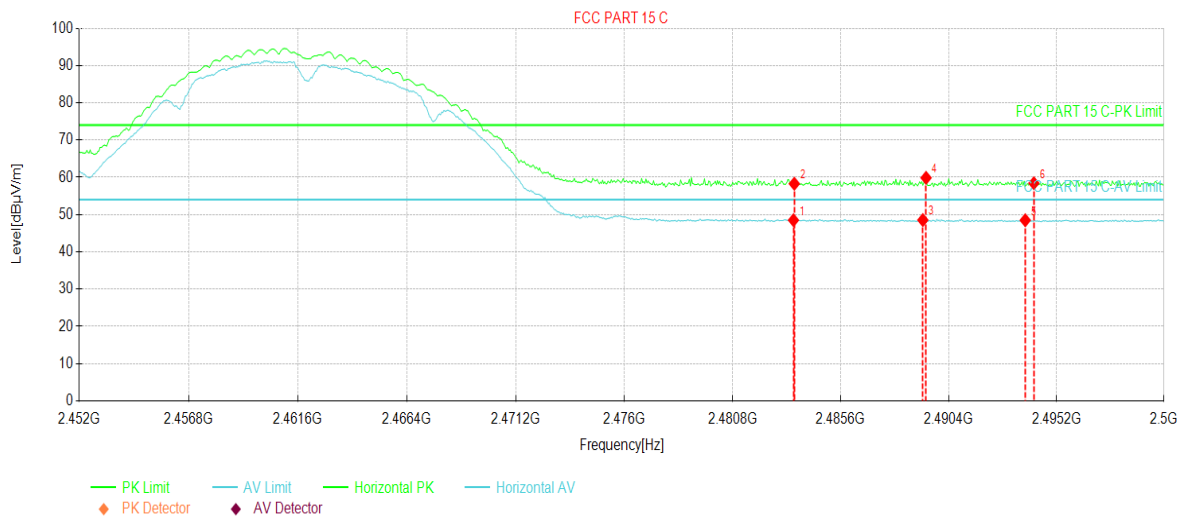


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.04	58.76	35.72	74.00	15.24	PK	Vertical
2	2483.53	12.67	48.39	35.72	54.00	5.61	AV	Vertical
3	2490.59	23.93	59.63	35.70	74.00	14.37	PK	Vertical
4	2490.73	12.72	48.42	35.70	54.00	5.58	AV	Vertical
5	2495.20	22.89	58.58	35.69	74.00	15.42	PK	Vertical
6	2495.44	12.92	48.61	35.69	54.00	5.39	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		

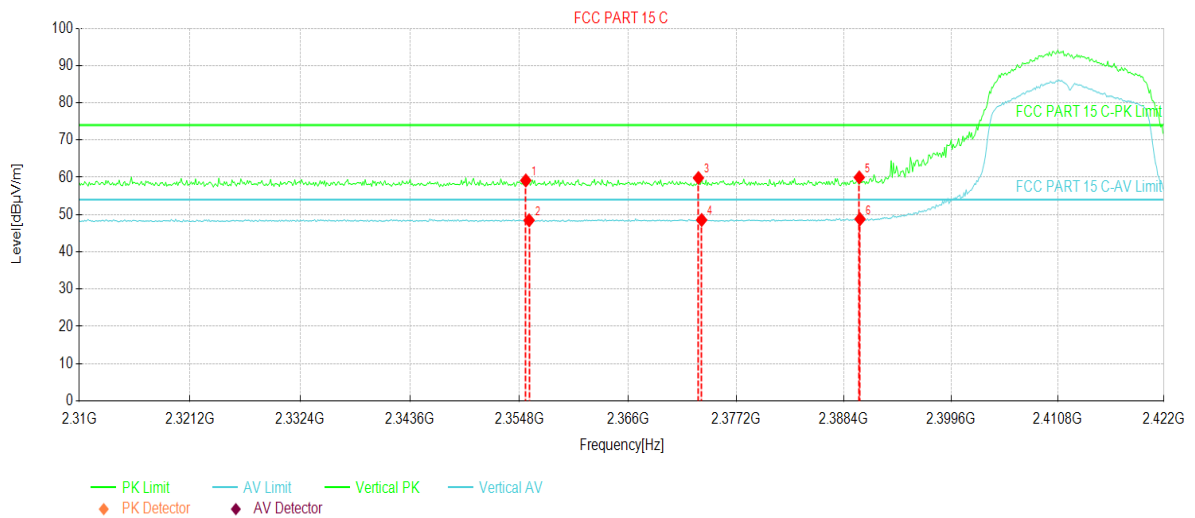


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	12.78	48.50	35.72	54.00	5.50	AV	Horizontal
2	2483.53	22.55	58.27	35.72	74.00	15.73	PK	Horizontal
3	2489.24	12.83	48.53	35.70	54.00	5.47	AV	Horizontal
4	2489.39	24.15	59.85	35.70	74.00	14.15	PK	Horizontal
5	2493.80	12.79	48.48	35.69	54.00	5.52	AV	Horizontal
6	2494.19	22.72	58.41	35.69	74.00	15.59	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		

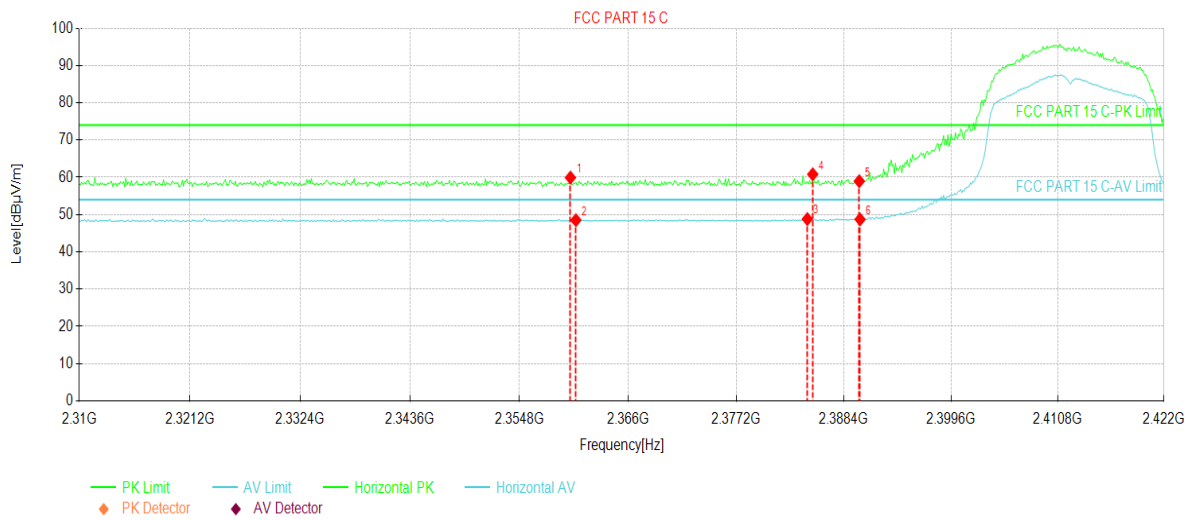


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2355.47	23.56	59.15	35.59	74.00	14.85	PK	Vertical
2	2355.80	12.87	48.47	35.60	54.00	5.53	AV	Vertical
3	2373.28	24.10	59.82	35.72	74.00	14.18	PK	Vertical
4	2373.61	12.82	48.54	35.72	54.00	5.46	AV	Vertical
5	2390.00	24.13	59.97	35.84	74.00	14.03	PK	Vertical
6	2390.08	12.94	48.78	35.84	54.00	5.22	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		

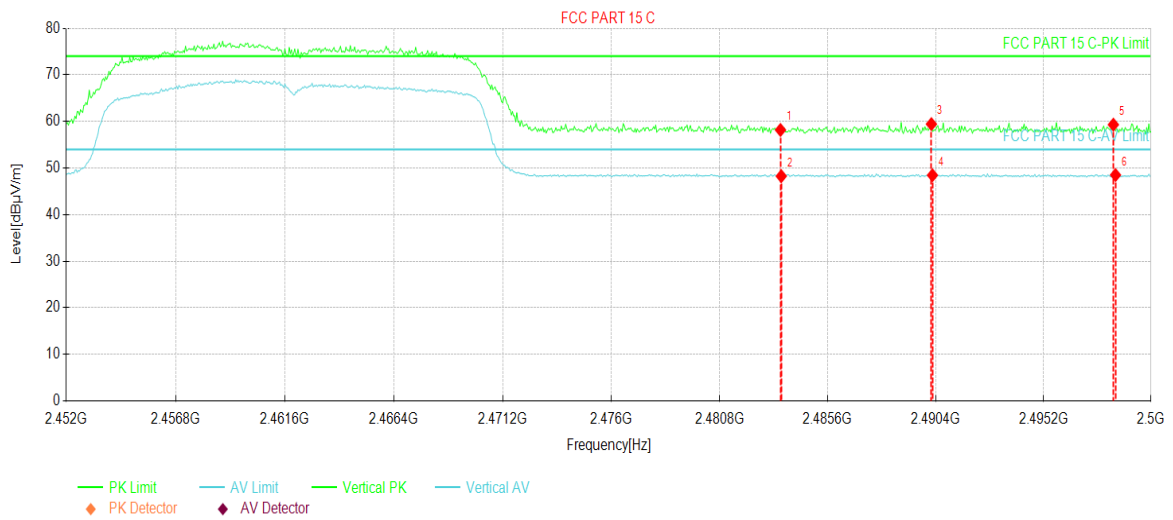


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2360.06	24.29	59.92	35.63	74.00	14.08	PK	Horizontal
2	2360.62	12.87	48.50	35.63	54.00	5.50	AV	Horizontal
3	2384.59	12.99	48.79	35.80	54.00	5.21	AV	Horizontal
4	2385.15	25.01	60.81	35.80	74.00	13.19	PK	Horizontal
5	2390.00	23.12	58.96	35.84	74.00	15.04	PK	Horizontal
6	2390.08	12.87	48.71	35.84	54.00	5.29	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		

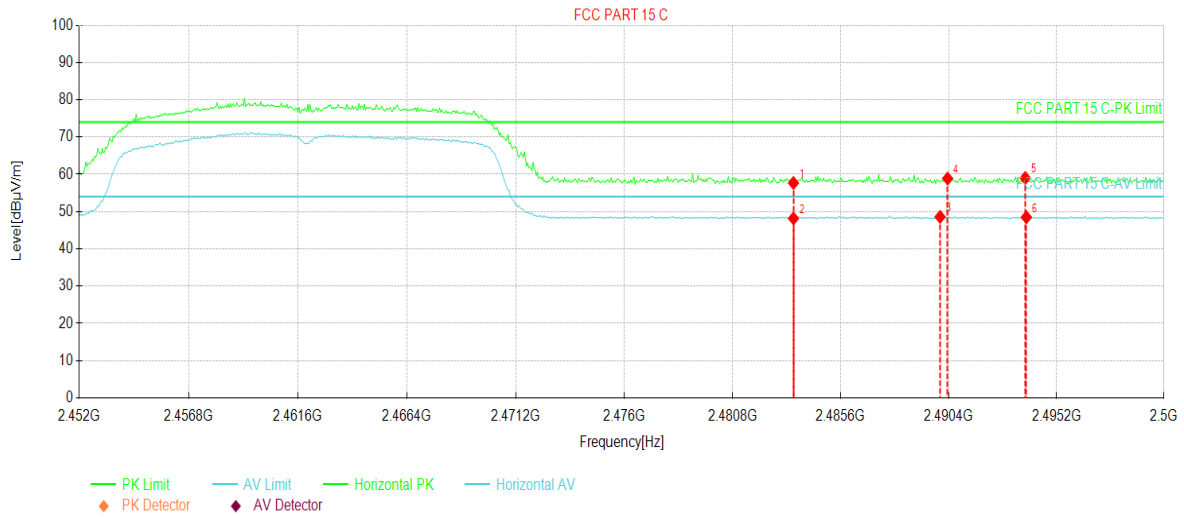


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.44	58.16	35.72	74.00	15.84	PK	Vertical
2	2483.53	12.52	48.24	35.72	54.00	5.76	AV	Vertical
3	2490.20	23.72	59.42	35.70	74.00	14.58	PK	Vertical
4	2490.25	12.75	48.45	35.70	54.00	5.55	AV	Vertical
5	2498.32	23.62	59.30	35.68	74.00	14.70	PK	Vertical
6	2498.41	12.81	48.49	35.68	54.00	5.51	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		

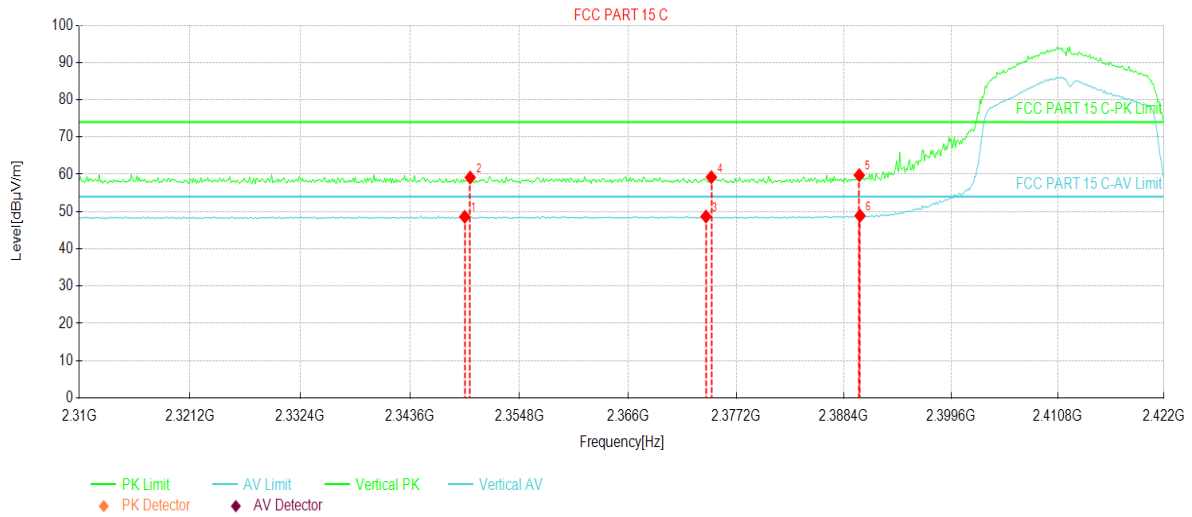


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	21.96	57.68	35.72	74.00	16.32	PK	Horizontal
2	2483.50	12.45	48.17	35.72	54.00	5.83	AV	Horizontal
3	2490.01	12.88	48.58	35.70	54.00	5.42	AV	Horizontal
4	2490.35	23.17	58.87	35.70	74.00	15.13	PK	Horizontal
5	2493.80	23.32	59.01	35.69	74.00	14.99	PK	Horizontal
6	2493.85	12.79	48.48	35.69	54.00	5.52	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11n-HT20 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		



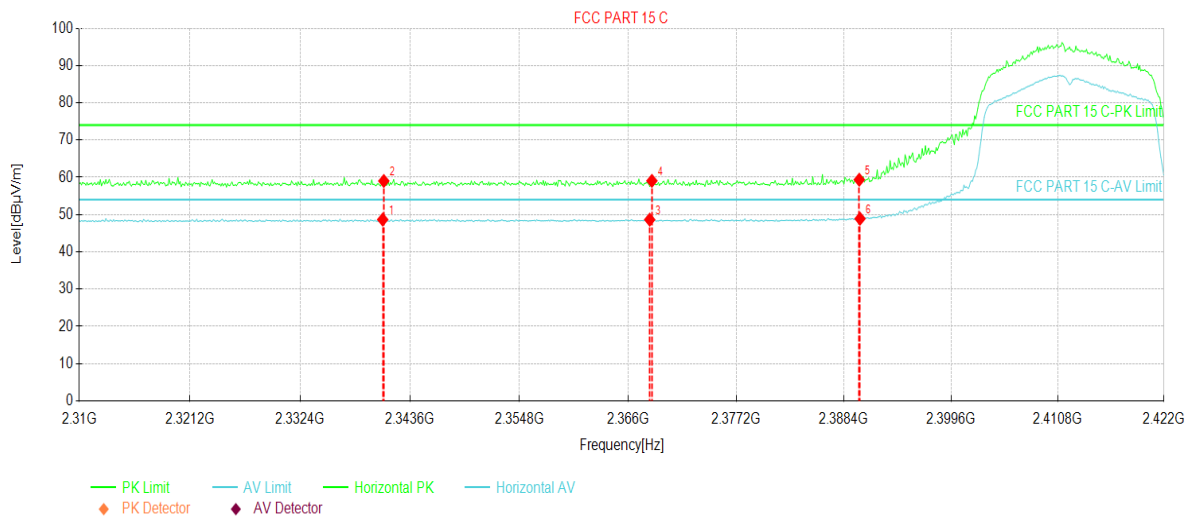
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2349.20	13.05	48.60	35.55	54.00	5.40	AV	Vertical
2	2349.76	23.59	59.14	35.55	74.00	14.86	PK	Vertical
3	2374.06	12.95	48.68	35.73	54.00	5.32	AV	Vertical
4	2374.62	23.49	59.22	35.73	74.00	14.78	PK	Vertical
5	2390.00	23.94	59.78	35.84	74.00	14.22	PK	Vertical
6	2390.08	13.04	48.88	35.84	54.00	5.12	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11n-HT20 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		

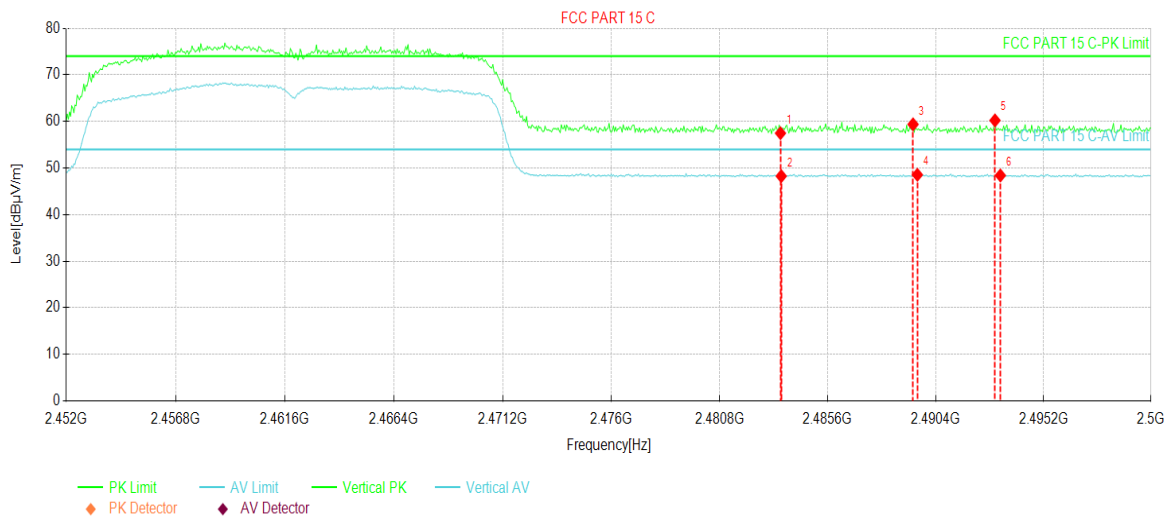


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2340.80	13.17	48.66	35.49	54.00	5.34	AV	Horizontal
2	2340.91	23.52	59.01	35.49	74.00	14.99	PK	Horizontal
3	2368.24	12.95	48.63	35.68	54.00	5.37	AV	Horizontal
4	2368.46	23.36	59.05	35.69	74.00	14.95	PK	Horizontal
5	2390.00	23.51	59.35	35.84	74.00	14.65	PK	Horizontal
6	2390.08	13.06	48.90	35.84	54.00	5.10	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11n-HT20 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		

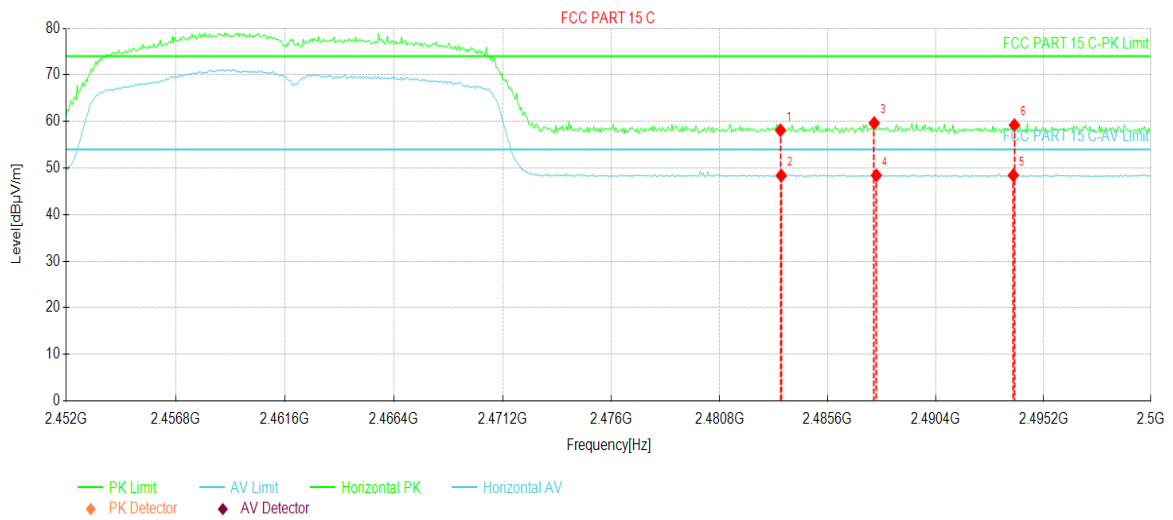


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2483.50	21.75	57.47	35.72	74.00	16.53	PK	Vertical
2	2483.53	12.53	48.25	35.72	54.00	5.75	AV	Vertical
3	2489.39	23.66	59.36	35.70	74.00	14.64	PK	Vertical
4	2489.58	12.84	48.54	35.70	54.00	5.46	AV	Vertical
5	2493.04	24.52	60.22	35.70	74.00	13.78	PK	Vertical
6	2493.28	12.70	48.40	35.70	54.00	5.60	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	Cl8n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11n-HT20 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		



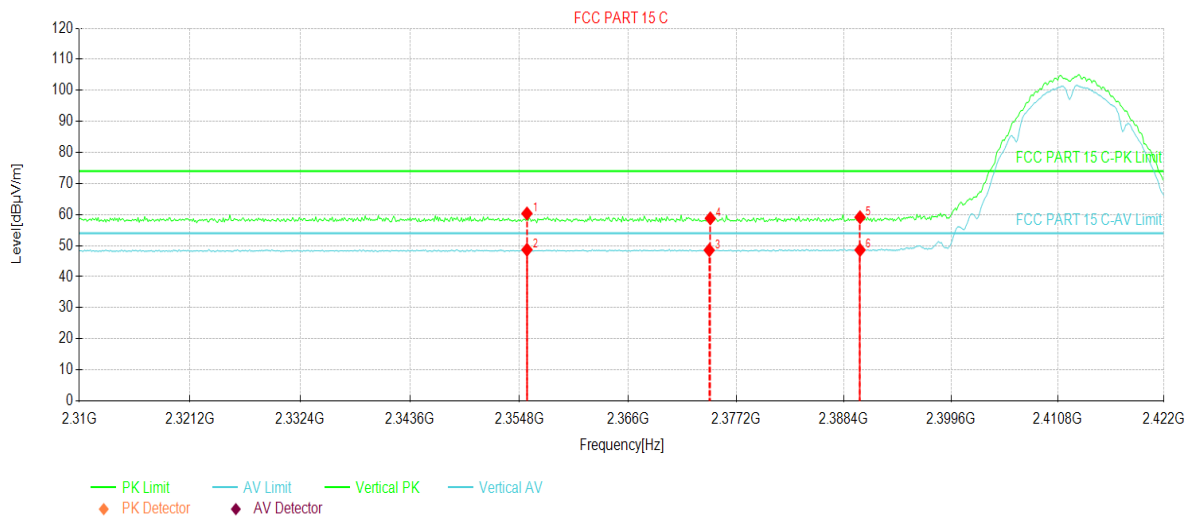
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.38	58.10	35.72	74.00	15.90	PK	Horizontal
2	2483.53	12.65	48.37	35.72	54.00	5.63	AV	Horizontal
3	2487.66	23.94	59.65	35.71	74.00	14.35	PK	Horizontal
4	2487.76	12.71	48.42	35.71	54.00	5.58	AV	Horizontal
5	2493.85	12.75	48.44	35.69	54.00	5.56	AV	Horizontal
6	2493.90	23.51	59.20	35.69	74.00	14.80	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

**MAIN:**

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		

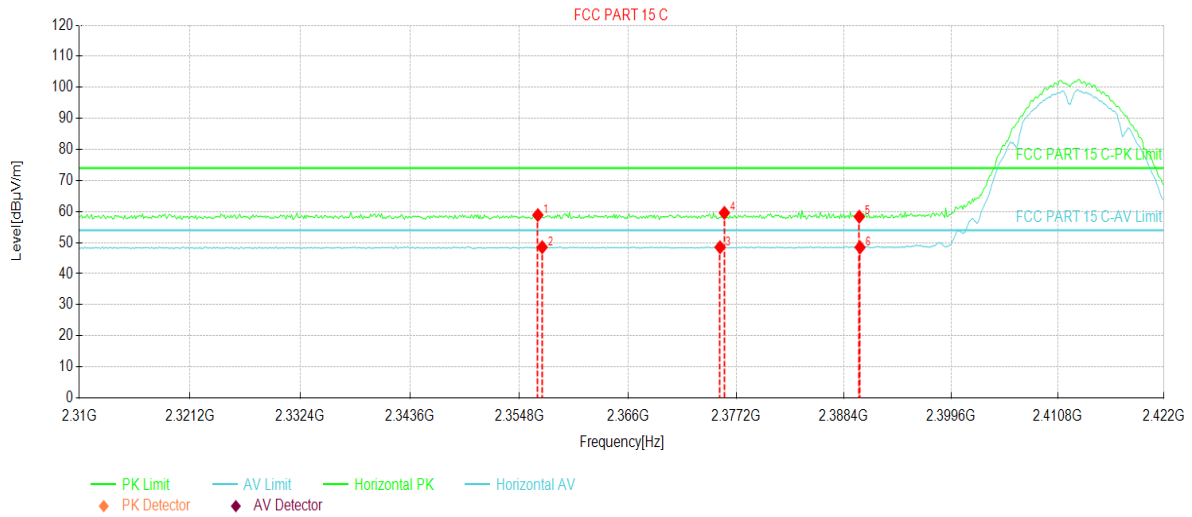


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2355.58	24.75	60.34	35.59	74.00	13.66	PK	Vertical
2	2355.58	13.09	48.68	35.59	54.00	5.32	AV	Vertical
3	2374.40	12.81	48.54	35.73	54.00	5.46	AV	Vertical
4	2374.51	23.06	58.79	35.73	74.00	15.21	PK	Vertical
5	2390.08	23.29	59.13	35.84	74.00	14.87	PK	Vertical
6	2390.08	12.75	48.59	35.84	54.00	5.41	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		

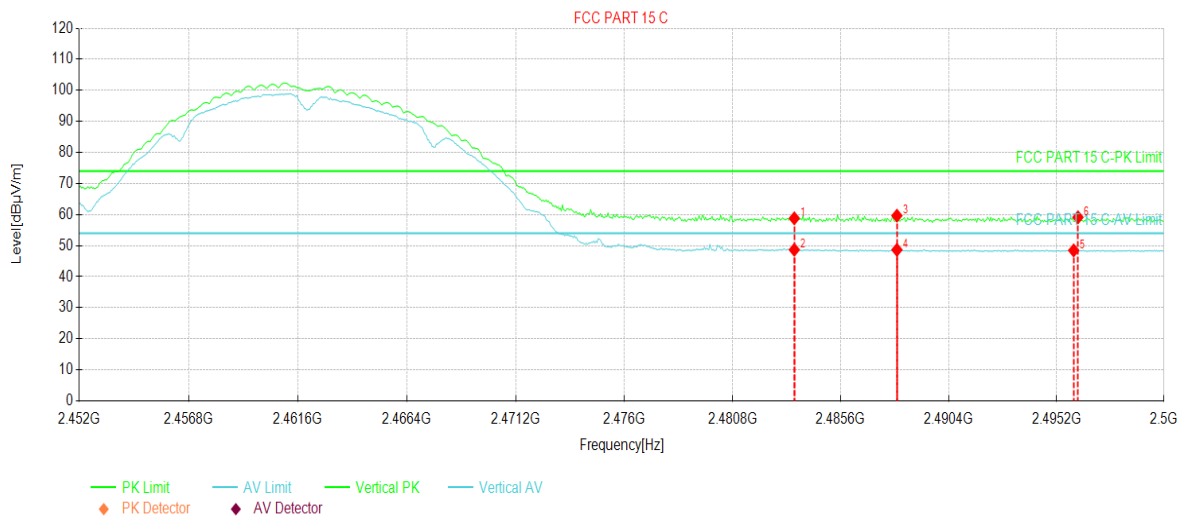


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2356.70	23.27	58.87	35.60	74.00	15.13	PK	Horizontal
2	2357.15	12.92	48.53	35.61	54.00	5.47	AV	Horizontal
3	2375.52	12.77	48.51	35.74	54.00	5.49	AV	Horizontal
4	2375.96	23.84	59.58	35.74	74.00	14.42	PK	Horizontal
5	2390.00	22.51	58.35	35.84	74.00	15.65	PK	Horizontal
6	2390.08	12.65	48.49	35.84	54.00	5.51	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		

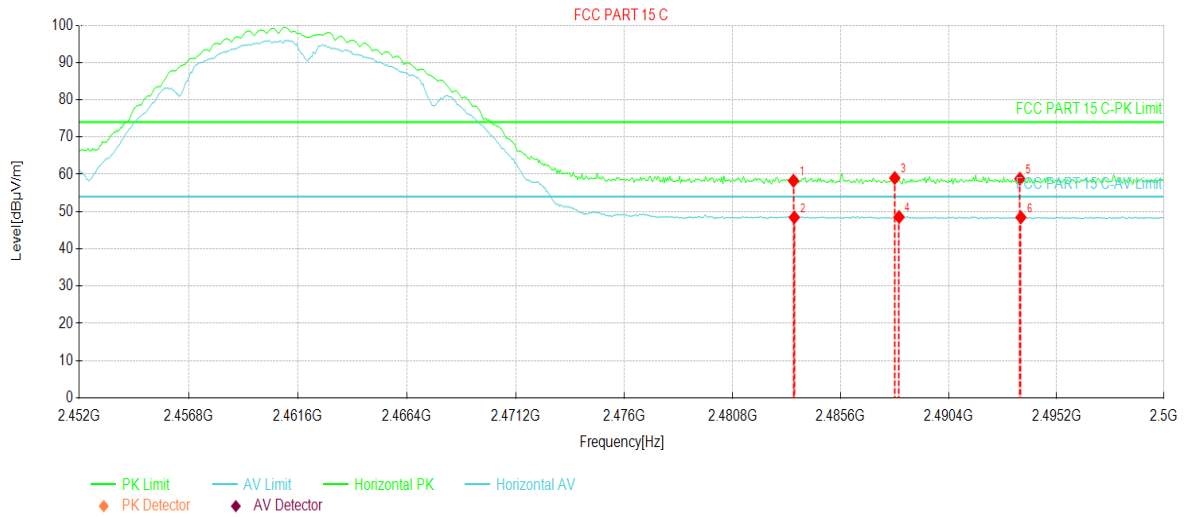


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.53	23.07	58.79	35.72	74.00	15.21	PK	Vertical
2	2483.53	12.95	48.67	35.72	54.00	5.33	AV	Vertical
3	2488.09	23.93	59.64	35.71	74.00	14.36	PK	Vertical
4	2488.09	12.94	48.65	35.71	54.00	5.35	AV	Vertical
5	2495.96	12.77	48.46	35.69	54.00	5.54	AV	Vertical
6	2496.16	23.42	59.11	35.69	74.00	14.89	PK	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		

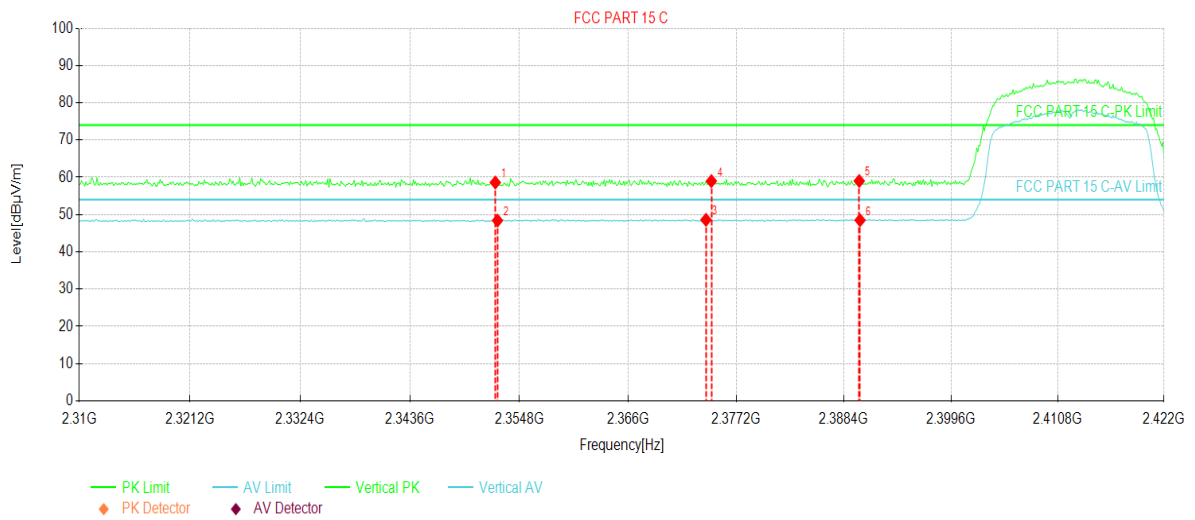


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.54	58.26	35.72	74.00	15.74	PK	Horizontal
2	2483.53	12.72	48.44	35.72	54.00	5.56	AV	Horizontal
3	2488.00	23.29	59.00	35.71	74.00	15.00	PK	Horizontal
4	2488.19	12.83	48.54	35.71	54.00	5.46	AV	Horizontal
5	2493.56	23.13	58.82	35.69	74.00	15.18	PK	Horizontal
6	2493.61	12.75	48.44	35.69	54.00	5.56	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		



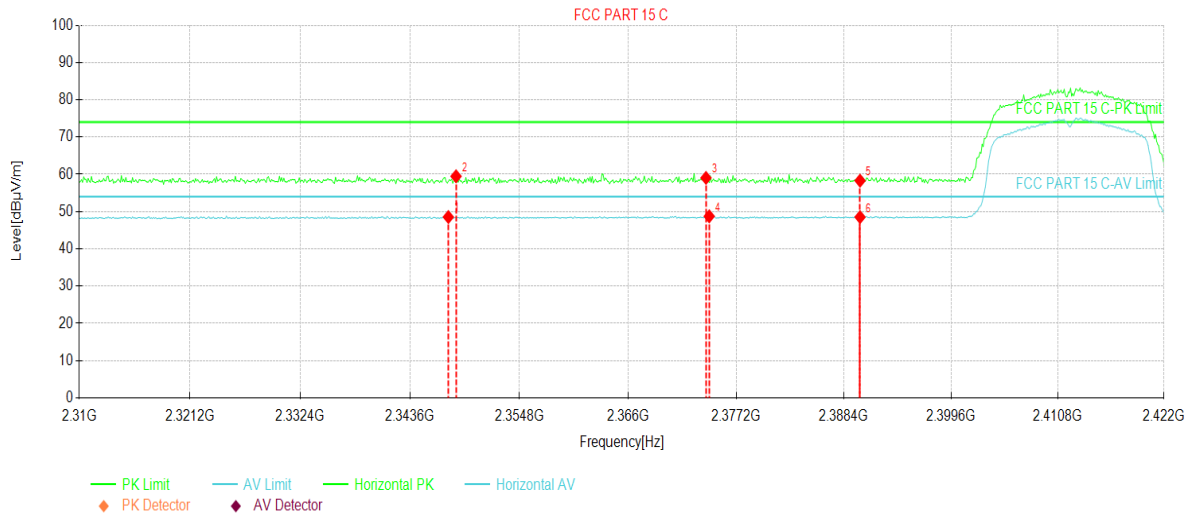
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2352.33	23.03	58.60	35.57	74.00	15.40	PK	Vertical
2	2352.56	12.83	48.40	35.57	54.00	5.60	AV	Vertical
3	2374.06	12.87	48.60	35.73	54.00	5.40	AV	Vertical
4	2374.62	23.25	58.98	35.73	74.00	15.02	PK	Vertical
5	2390.00	23.17	59.01	35.84	74.00	14.99	PK	Vertical
6	2390.08	12.65	48.49	35.84	54.00	5.51	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		

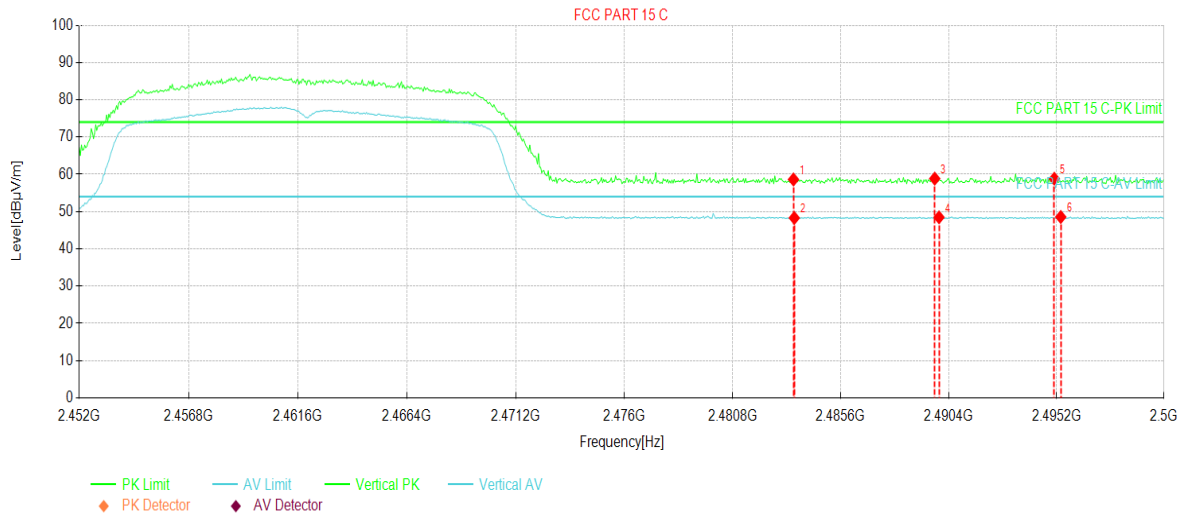


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2347.52	12.99	48.53	35.54	54.00	5.47	AV	Horizontal
2	2348.30	23.92	59.46	35.54	74.00	14.54	PK	Horizontal
3	2374.06	23.31	59.04	35.73	74.00	14.96	PK	Horizontal
4	2374.40	13.00	48.73	35.73	54.00	5.27	AV	Horizontal
5	2390.08	22.45	58.29	35.84	74.00	15.71	PK	Horizontal
6	2390.08	12.68	48.52	35.84	54.00	5.48	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		

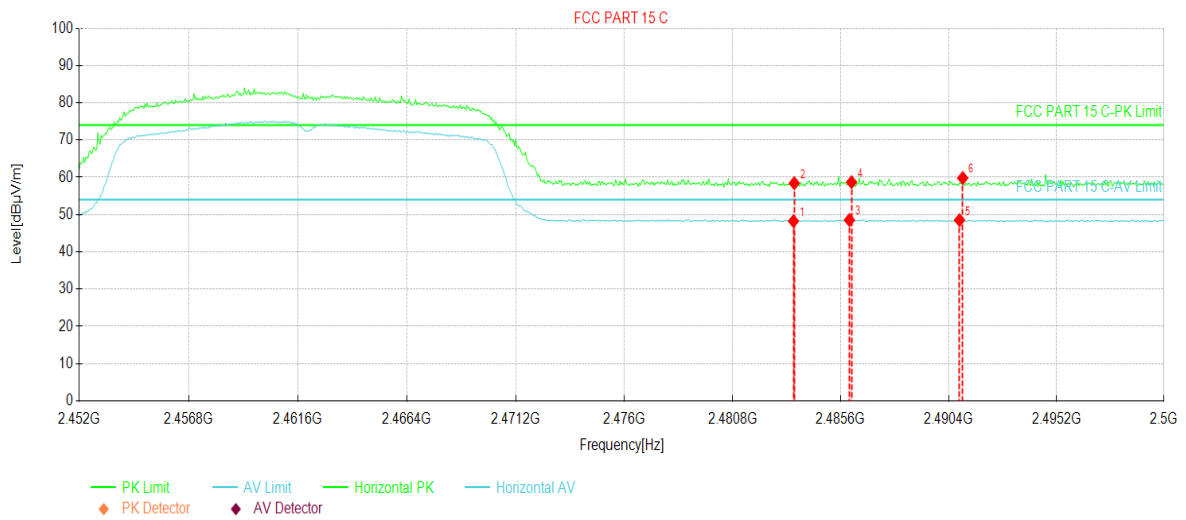


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.90	58.62	35.72	74.00	15.38	PK	Vertical
2	2483.53	12.57	48.29	35.72	54.00	5.71	AV	Vertical
3	2489.77	23.14	58.84	35.70	74.00	15.16	PK	Vertical
4	2489.96	12.77	48.47	35.70	54.00	5.53	AV	Vertical
5	2495.10	23.13	58.82	35.69	74.00	15.18	PK	Vertical
6	2495.39	12.86	48.55	35.69	54.00	5.45	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		

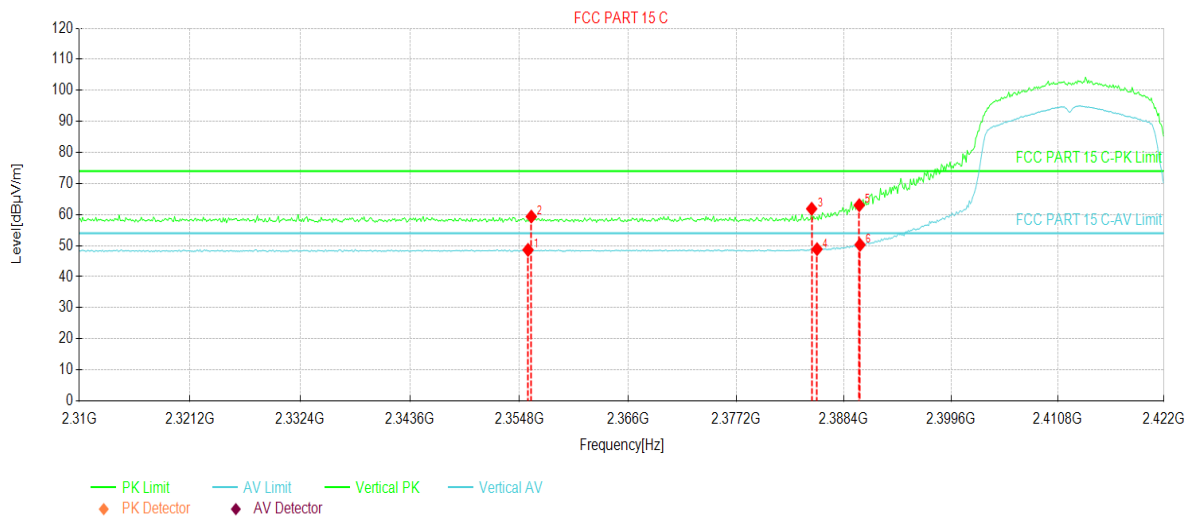


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	12.51	48.23	35.72	54.00	5.77	AV	Horizontal
2	2483.53	22.70	58.42	35.72	74.00	15.58	PK	Horizontal
3	2485.98	12.82	48.53	35.71	54.00	5.47	AV	Horizontal
4	2486.08	22.99	58.70	35.71	74.00	15.30	PK	Horizontal
5	2490.88	12.79	48.49	35.70	54.00	5.51	AV	Horizontal
6	2491.02	24.10	59.80	35.70	74.00	14.20	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11n-HT20 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		

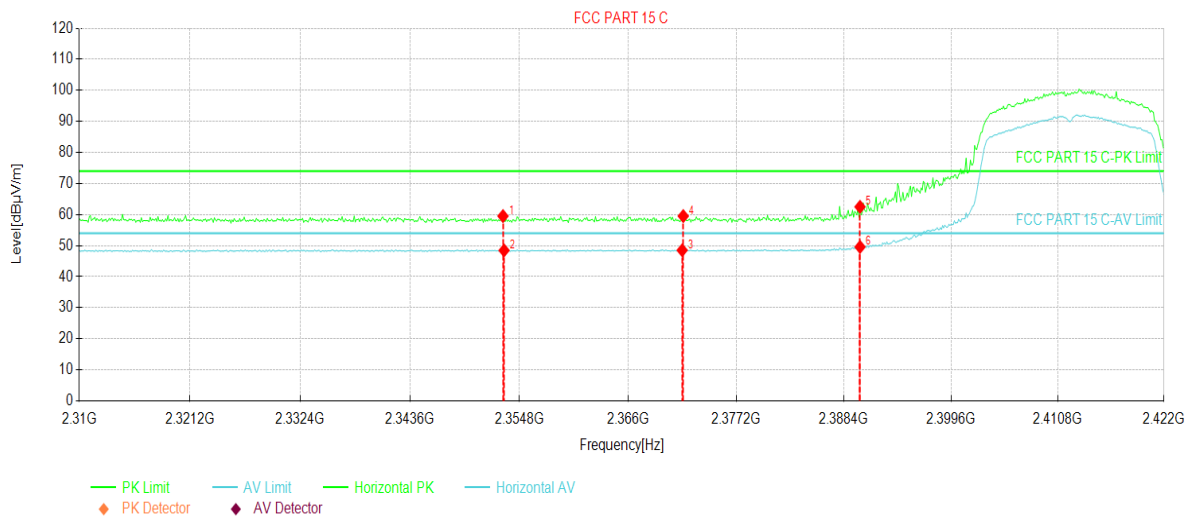


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2355.69	13.02	48.62	35.60	54.00	5.38	AV	Vertical
2	2356.03	23.76	59.36	35.60	74.00	14.64	PK	Vertical
3	2385.04	26.06	61.86	35.80	74.00	12.14	PK	Vertical
4	2385.60	13.04	48.85	35.81	54.00	5.15	AV	Vertical
5	2390.00	27.17	63.01	35.84	74.00	10.99	PK	Vertical
6	2390.08	14.42	50.26	35.84	54.00	3.74	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11n-HT20 Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		

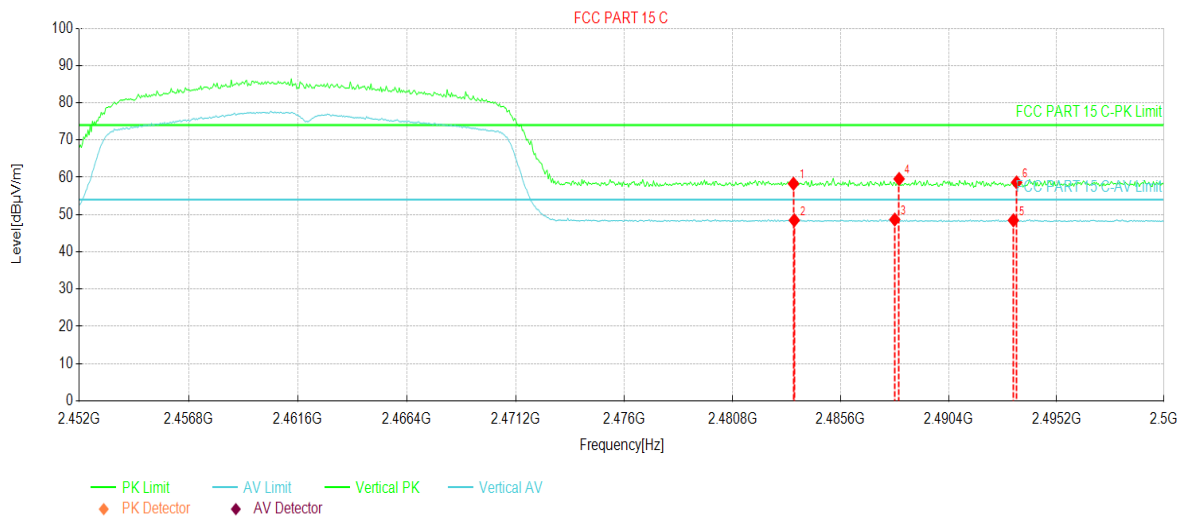


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2353.12	23.93	59.51	35.58	74.00	14.49	PK	Horizontal
2	2353.23	12.88	48.46	35.58	54.00	5.54	AV	Horizontal
3	2371.60	12.81	48.52	35.71	54.00	5.48	AV	Horizontal
4	2371.71	23.80	59.51	35.71	74.00	14.49	PK	Horizontal
5	2390.08	26.65	62.49	35.84	74.00	11.51	PK	Horizontal
6	2390.08	13.73	49.57	35.84	54.00	4.43	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11n-HT20 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		

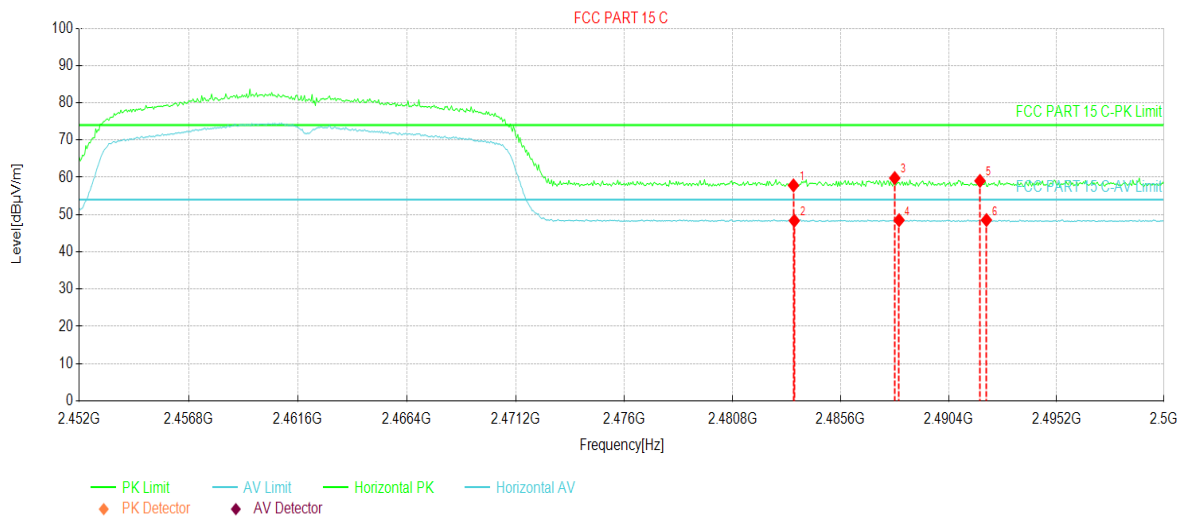


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.57	58.29	35.72	74.00	15.71	PK	Vertical
2	2483.53	12.76	48.48	35.72	54.00	5.52	AV	Vertical
3	2488.00	12.96	48.67	35.71	54.00	5.33	AV	Vertical
4	2488.19	23.85	59.56	35.71	74.00	14.44	PK	Vertical
5	2493.28	12.76	48.46	35.70	54.00	5.54	AV	Vertical
6	2493.42	22.92	58.62	35.70	74.00	15.38	PK	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	C18n
<b>Test By:</b>	Mike	<b>Test mode:</b>	802.11n-HT20 Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.11	57.83	35.72	74.00	16.17	PK	Horizontal
2	2483.53	12.63	48.35	35.72	54.00	5.65	AV	Horizontal
3	2488.00	24.08	59.79	35.71	74.00	14.21	PK	Horizontal
4	2488.19	12.78	48.49	35.71	54.00	5.51	AV	Horizontal
5	2491.79	23.33	59.03	35.70	74.00	14.97	PK	Horizontal
6	2492.08	12.82	48.52	35.70	54.00	5.48	AV	Horizontal

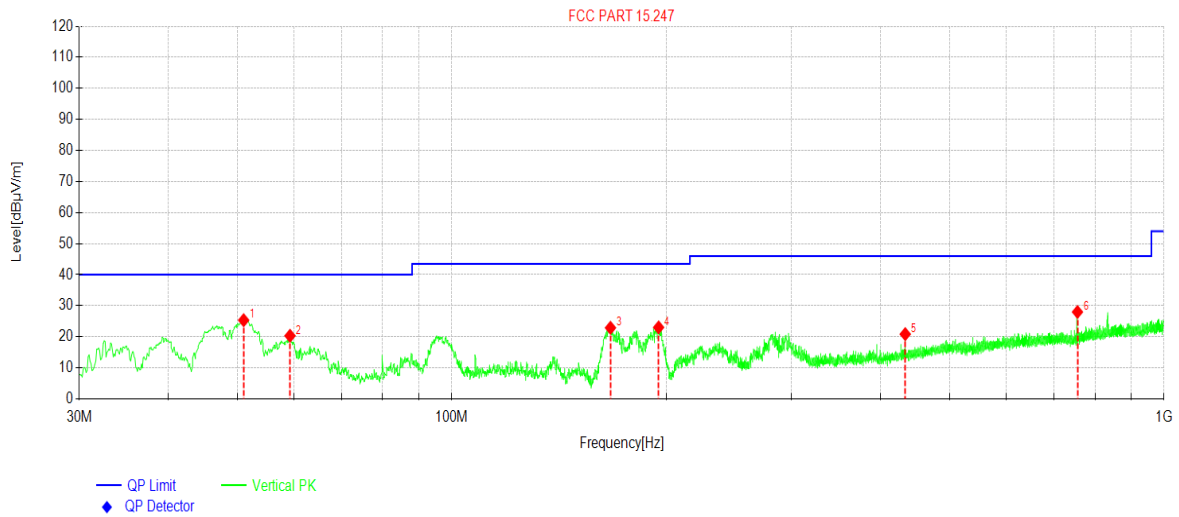
**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

## 6.5 Emissions in Non-restricted Frequency Bands

Below 1GHz:

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	CI8n
<b>Test By:</b>	Mike	<b>Test mode:</b>	2.4G Wi-Fi mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz		



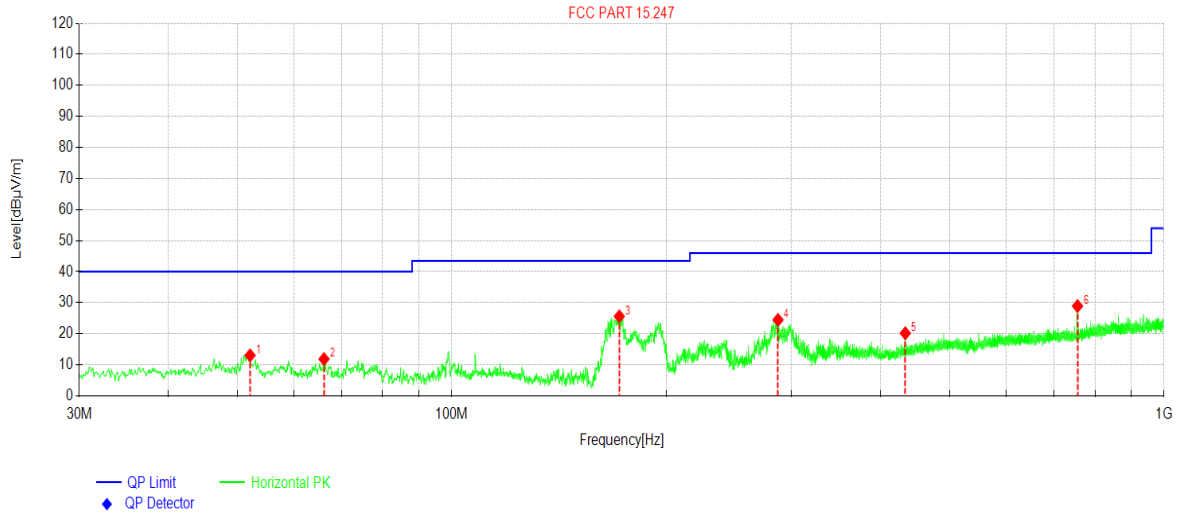
NO.	Freq. [MHz]	Reading[dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	51.0511	40.03	25.34	-14.69	40.00	14.66	PK	Vertical
2	59.2969	35.27	20.31	-14.96	40.00	19.69	PK	Vertical
3	167.074	40.00	22.88	-17.12	43.50	20.62	PK	Vertical
4	195.207	38.72	23.01	-15.71	43.50	20.49	PK	Vertical
5	433.269	30.15	20.85	-9.30	46.00	25.15	PK	Vertical
6	756.020	31.68	27.99	-3.69	46.00	18.01	PK	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	CI8n
<b>Test By:</b>	Mike	<b>Test mode:</b>	2.4G Wi-Fi mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz		



NO.	Freq. [MHz]	Reading[dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	52.1182	27.72	13.05	-14.67	40.00	26.95	PK	Horizontal
2	66.1846	27.79	11.85	-15.94	40.00	28.15	PK	Horizontal
3	171.925	42.60	25.61	-16.99	43.50	17.89	PK	Horizontal
4	287.172	37.45	24.46	-12.99	46.00	21.54	PK	Horizontal
5	433.269	29.46	20.16	-9.30	46.00	25.84	PK	Horizontal
6	756.117	32.60	28.92	-3.68	46.00	17.08	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

**Above 1GHz**

**AUX:**

802.11b						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	55.84	-9.46	46.38	74.00	27.62	Vertical
4824.00	56.46	-9.46	47.00	74.00	27.00	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	48.35	-9.46	38.89	54.00	15.11	Vertical
4824.00	48.96	-9.46	39.50	54.00	14.50	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	55.82	-9.11	46.71	74.00	27.29	Vertical
4874.00	55.99	-9.11	46.88	74.00	27.12	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	48.54	-9.11	39.43	54.00	14.57	Vertical
4874.00	49.04	-9.11	39.93	54.00	14.07	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	56.06	-8.74	47.32	74.00	26.68	Vertical
4924.00	55.64	-8.74	46.90	74.00	27.10	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	48.83	-8.74	40.09	54.00	13.91	Vertical
4924.00	49.00	-8.74	40.26	54.00	13.74	Horizontal
<b>Remark:</b>						
1. Level = Read level + Factor.						

<b>802.11g</b>						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	55.97	-9.46	46.51	74.00	27.49	Vertical
4824.00	56.70	-9.46	47.24	74.00	26.76	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	48.66	-9.46	39.20	54.00	14.80	Vertical
4824.00	48.62	-9.46	39.16	54.00	14.84	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	56.23	-9.11	47.12	74.00	26.88	Vertical
4874.00	56.20	-9.11	47.09	74.00	26.91	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	48.29	-9.11	39.18	54.00	14.82	Vertical
4874.00	48.14	-9.11	39.03	54.00	14.97	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	55.80	-8.74	47.06	74.00	26.94	Vertical
4924.00	56.40	-8.74	47.66	74.00	26.34	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	48.60	-8.74	39.86	54.00	14.14	Vertical
4924.00	48.35	-8.74	39.61	54.00	14.39	Horizontal
<b>Remark:</b>						
1. Level = Read level + Factor.						

<b>802.11n-HT20</b>						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dB $\mu$ V)	Factor (dB)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
4824.00	55.77	-9.46	46.31	74.00	27.69	Vertical
4824.00	56.33	-9.46	46.87	74.00	27.13	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dB $\mu$ V)	Factor (dB)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
4824.00	48.64	-9.46	39.18	54.00	14.82	Vertical
4824.00	48.22	-9.46	38.76	54.00	15.24	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dB $\mu$ V)	Factor (dB)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
4874.00	55.54	-9.11	46.43	74.00	27.57	Vertical
4874.00	56.51	-9.11	47.40	74.00	26.60	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dB $\mu$ V)	Factor (dB)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
4874.00	48.43	-9.11	39.32	54.00	14.68	Vertical
4874.00	48.16	-9.11	39.05	54.00	14.95	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dB $\mu$ V)	Factor (dB)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
4924.00	55.57	-8.74	46.83	74.00	27.17	Vertical
4924.00	56.38	-8.74	47.64	74.00	26.36	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dB $\mu$ V)	Factor (dB)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
4924.00	48.63	-8.74	39.89	54.00	14.11	Vertical
4924.00	48.11	-8.74	39.37	54.00	14.63	Horizontal
<b>Remark:</b>						
1. Level = Read level + Factor.						

**MAIN:**

802.11b						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	56.33	-9.46	46.87	74.00	27.13	Vertical
4824.00	58.94	-9.46	49.48	74.00	24.52	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	51.02	-9.46	41.56	54.00	12.44	Vertical
4824.00	54.06	-9.46	44.60	54.00	9.40	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	56.18	-9.11	47.07	74.00	26.93	Vertical
4874.00	58.97	-9.11	49.86	74.00	24.14	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	50.74	-9.11	41.63	54.00	12.37	Vertical
4874.00	53.84	-9.11	44.73	54.00	9.27	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	56.15	-8.74	47.41	74.00	26.59	Vertical
4924.00	59.13	-8.74	50.39	74.00	23.61	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	50.97	-8.74	42.23	54.00	11.77	Vertical
4924.00	53.93	-8.74	45.19	54.00	8.81	Horizontal
<b>Remark:</b>						
1. Level = Read level + Factor.						

<b>802.11g</b>						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	56.60	-9.46	47.14	74.00	26.86	Vertical
4824.00	58.53	-9.46	49.07	74.00	24.93	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	50.89	-9.46	41.43	54.00	12.57	Vertical
4824.00	53.99	-9.46	44.53	54.00	9.47	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	56.34	-9.11	47.23	74.00	26.77	Vertical
4874.00	59.04	-9.11	49.93	74.00	24.07	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	50.84	-9.11	41.73	54.00	12.27	Vertical
4874.00	54.11	-9.11	45.00	54.00	9.00	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	56.48	-8.74	47.74	74.00	26.26	Vertical
4924.00	58.54	-8.74	49.80	74.00	24.20	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	50.77	-8.74	42.03	54.00	11.97	Vertical
4924.00	54.10	-8.74	45.36	54.00	8.64	Horizontal
<b>Remark:</b>						
1. Level = Read level + Factor.						

<b>802.11n-HT20</b>						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	56.30	-9.46	46.84	74.00	27.16	Vertical
4824.00	59.01	-9.46	49.55	74.00	24.45	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	50.78	-9.46	41.32	54.00	12.68	Vertical
4824.00	53.76	-9.46	44.30	54.00	9.70	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	55.94	-9.11	46.83	74.00	27.17	Vertical
4874.00	58.82	-9.11	49.71	74.00	24.29	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	51.19	-9.11	42.08	54.00	11.92	Vertical
4874.00	53.97	-9.11	44.86	54.00	9.14	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	55.53	-8.74	46.79	74.00	27.21	Vertical
4924.00	59.22	-8.74	50.48	74.00	23.52	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	51.05	-8.74	42.31	54.00	11.69	Vertical
4924.00	53.80	-8.74	45.06	54.00	8.94	Horizontal
<b>Remark:</b>						
1. Level = Read level + Factor.						

-----End of report-----