



# FCC RF Test Report

APPLICANT : Motorola Mobility LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : XT2205-1, XT2205-2  
FCC ID : IHDT56AE7  
STANDARD : 47 CFR Part 2, 22, 24, 27, 96  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)  
TEST DATE(S) : May 27, 2022

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



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**People's Republic of China**



## TABLE OF CONTENTS

|                                                              |           |
|--------------------------------------------------------------|-----------|
| <b>REVISION HISTORY .....</b>                                | <b>3</b>  |
| <b>SUMMARY OF TEST RESULT .....</b>                          | <b>4</b>  |
| <b>1 GENERAL DESCRIPTION .....</b>                           | <b>6</b>  |
| 1.1 Applicant .....                                          | 6         |
| 1.2 Manufacturer .....                                       | 6         |
| 1.3 Product Feature of Equipment Under Test .....            | 6         |
| 1.4 Product Specification of Equipment Under Test .....      | 6         |
| 1.5 Modification of EUT .....                                | 7         |
| 1.6 Testing Location .....                                   | 7         |
| 1.7 Test Software .....                                      | 7         |
| 1.8 Applicable Standards .....                               | 7         |
| 1.9 Applicable Standards .....                               | 8         |
| <b>2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST .....</b>    | <b>9</b>  |
| 2.1 Test Mode .....                                          | 9         |
| 2.2 Connection Diagram of Test System .....                  | 10        |
| 2.3 Support Unit used in test configuration and system ..... | 10        |
| 2.4 Frequency List of Low/Middle/High Channels .....         | 11        |
| <b>3 RADIATED TEST ITEMS .....</b>                           | <b>17</b> |
| 3.1 Measuring Instruments .....                              | 17        |
| 3.2 Test Setup .....                                         | 17        |
| 3.3 Test Result of Radiated Test .....                       | 18        |
| 3.4 Radiated Spurious Emission .....                         | 19        |
| <b>4 LIST OF MEASURING EQUIPMENT .....</b>                   | <b>21</b> |
| <b>5 UNCERTAINTY OF EVALUATION .....</b>                     | <b>22</b> |
| <b>APPENDIX A. TEST RESULTS OF RADIATED TEST</b>             |           |
| <b>APPENDIX B. TEST SETUP PHOTOGRAPHS</b>                    |           |



## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FG240834R  | Rev. 01 | Initial issue of report | Jun. 06, 2022 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                                                                      | Description                                                                                                                  | Limit                               | Result | Remark |
|----------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------|--------|
| -              | §2.1046                                                                       | Conducted Output Power                                                                                                       | Reporting Only                      | PASS   | 1      |
|                | §22.913(a)(5)                                                                 | Effective Radiated Power<br>(5G NR n5, n26)                                                                                  | ERP < 7 Watt                        |        |        |
|                | §27.50(c)(10)                                                                 | Effective Radiated Power<br>(5G NR n71)                                                                                      | ERP < 3 Watt                        |        |        |
|                | §24.232(c)<br>§27.50(h)(2)                                                    | Equivalent Isotropic Radiated Power<br>(5G NR n2, n25)<br>(5G NR n41)                                                        | EIRP < 2Watt                        |        |        |
|                | §27.50(d)(4)                                                                  | Equivalent Isotropic Radiated Power<br>(5G NR n66, n70)                                                                      | EIRP < 1Watt                        |        |        |
|                | §27.50(j)(3)                                                                  | Equivalent Isotropic Radiated Power<br>(5G NR n77, n78)                                                                      | EIRP < 1Watt                        |        |        |
|                | §96.41                                                                        | Maximum E.I.R.P.(5G NR n48)                                                                                                  | EIRP < 23 dBm/10MHz                 |        |        |
| -              | §24.232(d)<br>§27.50(j)(4)                                                    | Peak-to-Average Ratio                                                                                                        | <13 dB                              | PASS   | 1      |
| -              | §2.1049<br>§96.41                                                             | Occupied Bandwidth                                                                                                           | Reporting Only                      | PASS   | 1      |
| -              | §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.53(h)<br>§27.53(g)<br>§27.53(l)(2) | Conducted Band Edge Measurement<br>(5G NR n5, n26)<br>(5G NR n2, n25)<br>(5G NR n66, n70)<br>(5G NR n71)<br>(5G NR n77, n78) | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | 1      |
|                | §27.53(m)(4)                                                                  | Conducted Band Edge Measurement<br>(5G NR n41)                                                                               | §27.53(m)(4)                        |        |        |
|                | §96.41                                                                        | Conducted Band Edge Measurement<br>(5G NR n48)                                                                               | Part 96.41                          |        |        |
| -              | §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.53(h)<br>§27.53(g)<br>§27.53(l)(2) | Conducted Spurious Emission<br>(5G NR n5, n26)<br>(5G NR n2, n25)<br>(5G NR n66, n70)<br>(5G NR n71)<br>(5G NR n77, n78)     | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | 1      |
|                | §2.1051<br>§27.53(m)(4)                                                       | Conducted Spurious Emission<br>(5G NR n41)                                                                                   | < 55+10log <sub>10</sub> (P[Watts]) |        |        |
|                | §96.41                                                                        | Conducted Spurious Emission<br>(5G NR n48)                                                                                   | -40dBm/MHz                          |        |        |
| -              | §2.1055<br>§22.355                                                            | Frequency Stability<br>Temperature & Voltage                                                                                 | < 2.5 ppm for Part 22               | PASS   | 1      |
|                | §24.235<br>§27.54                                                             |                                                                                                                              | Within Authorized Band              |        |        |

| Report Section | FCC Rule                                                                      | Description                                                                                                             | Limit                                  | Result | Remark                                         |
|----------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------|------------------------------------------------|
| 3.4            | §2.1053<br>§22.917(a)<br>§24.238(a)<br>§27.53(h)<br>§27.53(g)<br>§27.53(l)(2) | Radiated Spurious Emission<br>(5G NR n5, n26)<br>(5G NR n2, n25)<br>(5G NR n66, n70)<br>(5G NR n71)<br>(5G NR n77, n78) | $< 43 + 10 \log_{10}(P[\text{Watts}])$ | PASS   | Under limit<br>13.07 dB at<br>14499.960<br>MHz |
|                | §2.1053<br>§27.53(m)(4)                                                       | Radiated Spurious Emission<br>(5G NR n41)                                                                               | $< 55 + 10 \log_{10}(P[\text{Watts}])$ |        |                                                |
|                | §96.41                                                                        | Radiated Spurious Emission<br>(5G NR n48)                                                                               | -40dBm/MHz                             |        |                                                |

**Remark 1 :**

The test items of inter band CA were cover by 5G NR single carrier due to the CA power is reduced according to 3GPP MPR.

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1 General Description

## 1.1 Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

| Product Feature |                             |
|-----------------|-----------------------------|
| Equipment       | Mobile Cellular Phone       |
| Brand Name      | Motorola                    |
| Model Name      | XT2205-1, XT2205-2          |
| FCC ID          | IHDT56AE7                   |
| IMEI Code       | Radiation : 357910940014326 |
| HW Version      | DVT2                        |
| SW Version      | S2ST32.48                   |
| EUT Stage       | Identical Prototype         |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tx Frequency                            | 5G NR n2 : 1850 MHz ~ 1910 MHz<br>5G NR n5 : 824 MHz ~ 849 MHz<br>5G NR n25 : 1850 MHz ~ 1915 MHz<br>5G NR n26 : 814 MHz ~ 849 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz<br>5G NR n48 : 3550 MHz ~ 3700 MHz<br>5G NR n66 : 1710 MHz ~ 1780 MHz<br>5G NR n70 : 1695 MHz ~ 1710 MHz<br>5G NR n71: 663 MHz ~ 698 MHz<br>5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz<br>5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz |
| Rx Frequency                            | 5G NR n2 : 1930 MHz ~ 1990 MHz<br>5G NR n5 : 869 MHz ~ 894 MHz<br>5G NR n25 : 1930 MHz ~ 1995 MHz<br>5G NR n26 : 859 MHz ~ 894 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz<br>5G NR n48 : 3550 MHz ~ 3700 MHz<br>5G NR n66 : 2110 MHz~ 2200 MHz<br>5G NR n70 : 1995 MHz ~ 2020 MHz<br>5G NR n71: 617 MHz ~ 652 MHz<br>5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz<br>5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz  |

|                           |                                                                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Uplink NR CA Bands</b> | CA_n2A-n5A, CA_n2A-n66A, CA_n5A-n66A, CA_n25A-n41A, CA_n26A-n66A, CA_n26A-n70A, CA_n41A-n66A, CA_n41A-n71A, CA_n41A-n77A, CA_n41A-n78A, CA_n48A-n70A, CA_n48A-n77A, CA_n66A-n71A, CA_n66A-n77A, CA_n70A-n71A |
| <b>Uplink NR DC Bands</b> | DC_n2A-n48A, DC_n2A-n77A, DC_n5A-n48A, DC_n5A-n77A, DC_n48A-n66A, DC_n66A-n77A                                                                                                                               |
| <b>Type of Modulation</b> | CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM<br>DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM                                                                                                              |

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

|                           |                                                                                                                                                                                           |                            |                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International Inc. (Shenzhen)                                                                                                                                                     |                            |                                       |
| <b>Test Site Location</b> | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103<br>TEL: +86-755-33202398 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                                                   | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | 03CH01-SZ                                                                                                                                                                                 | CN1256                     | 421272                                |

## 1.7 Test Software

| Item | Site      | Manufacturer | Name | Version     |
|------|-----------|--------------|------|-------------|
| 1.   | 03CH01-SZ | AUDIX        | E3   | 6.2009-8-24 |

## 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22, 24, 27
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

### Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.



## 1.9 Applicable Standards

| Specification of Accessory |            |                     |            |            |
|----------------------------|------------|---------------------|------------|------------|
| AC Adapter 1               | Brand Name | Motorola (Salom)    | Model Name | MC-301     |
| AC Adapter 2               | Brand Name | Motorola (Achel)    | Model Name | MC-301     |
| Battery                    | Brand Name | Motorola (ATL)      | Model Name | NF50       |
| USB Cable 1                | Brand Name | Motorola(Saibao)    | Model Name | SC18D13215 |
| USB Cable 2                | Brand Name | Motorola(Cabletech) | Model Name | SC18D13216 |
| USB Cable 3                | Brand Name | Motorola(Luxshare)  | Model Name | SC18D13217 |

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases were recorded in this report.

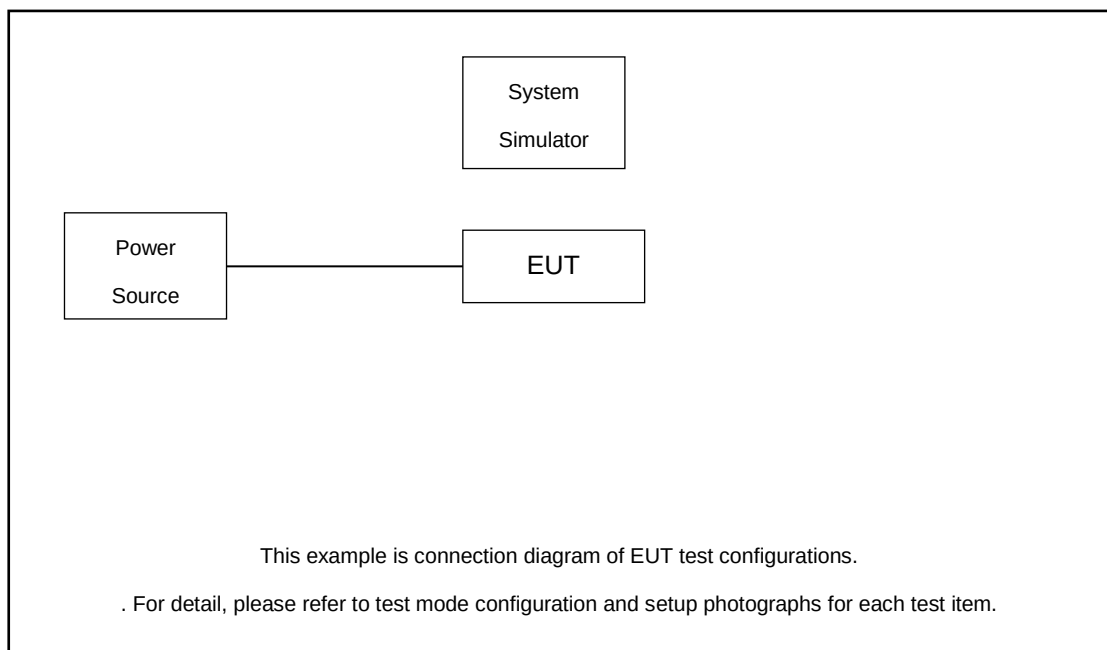
The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

| Orthogonal<br>Planes of EUT | X Plane                                                                           | Y Plane                                                                           | Z Plane                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                             |  |  |  |

| Test Items                 | Band         | Bandwidth (MHz) |    |    |    |       |     | Modulation |      |       |       |        | RB # |      | Test Channel |   |   |
|----------------------------|--------------|-----------------|----|----|----|-------|-----|------------|------|-------|-------|--------|------|------|--------------|---|---|
|                            |              | 5               | 10 | 15 | 20 | 50-90 | 100 | PI/2 BPSK  | QPSK | 16QAM | 64QAM | 256QAM | 1    | Full | L            | M | H |
| Radiated Spurious Emission | CA_n2A-n5A   | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n2A-n66A  | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n5A-n66A  | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n25A-n41A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n26A-n66A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n26A-n70A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n41A-n66A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n41A-n71A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n41A-n77A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n41A-n78A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n48A-n70A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n48A-n77A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n66A-n71A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n66A-n77A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | CA_n70A-n71A | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | DC_n2A-n48A  | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | DC_n2A-n77A  | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |
|                            | DC_n5A-n48A  | Worst Case      |    |    |    |       |     | Worst Case |      |       |       |        |      |      |              | v |   |

| Test Items | Band         | Bandwidth (MHz)                                                                                                                                                                                                                                                                                                                                                                    |    |    |    |       |     | Modulation |      |       |       |        |   | RB # |   | Test Channel |   |  |
|------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|-------|-----|------------|------|-------|-------|--------|---|------|---|--------------|---|--|
|            |              | 5                                                                                                                                                                                                                                                                                                                                                                                  | 10 | 15 | 20 | 50-90 | 100 | PI/2 BPSK  | QPSK | 16QAM | 64QAM | 256QAM | 1 | Full | L | M            | H |  |
|            | DC_n5A-n77A  | Worst Case                                                                                                                                                                                                                                                                                                                                                                         |    |    |    |       |     |            |      |       |       |        |   |      |   |              | v |  |
|            | DC_n48A-n66A | Worst Case                                                                                                                                                                                                                                                                                                                                                                         |    |    |    |       |     |            |      |       |       |        |   |      |   |              | v |  |
|            | DC_n66A-n77A | Worst Case                                                                                                                                                                                                                                                                                                                                                                         |    |    |    |       |     |            |      |       |       |        |   |      |   |              | v |  |
|            | Note         | 1. The mark “v” means that this configuration is chosen for testing<br>2. The mark “-” means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. |    |    |    |       |     |            |      |       |       |        |   |      |   |              |   |  |

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | DC Power Supply  | GW         | GPS-3030D | N/A    | N/A        | Unshielded, 1.8 m |
| 2.   | LTE Base Station | Anritsu    | MT8821C   | N/A    | N/A        | Unshielded, 1.8 m |
| 3.   | NR Base Station  | Anritsu    | MT8000A   | N/A    | N/A        | Unshielded, 1.8 m |

## 2.4 Frequency List of Low/Middle/High Channels

| 5G NR n2 Channel and Frequency List |                        |        |        |         |
|-------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                            | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                  | Channel                | 388000 | 392000 | 396000  |
|                                     | Frequency              | 1860   | 1880   | 1900    |
| 15                                  | Channel                | 387500 | 392000 | 396500  |
|                                     | Frequency              | 1857.5 | 1880   | 1902.5  |
| 10                                  | Channel                | 387000 | 392000 | 397000  |
|                                     | Frequency              | 1855   | 1880   | 1905    |
| 5                                   | Channel                | 386500 | 392000 | 397500  |
|                                     | Frequency              | 1852.5 | 1880   | 1907.5  |

| 5G NR n5 Channel and Frequency List |                        |        |        |         |
|-------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                            | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                  | Channel                | 175800 | 176300 | 176800  |
|                                     | Frequency              | 834    | 836.5  | 839     |
| 15                                  | Channel                | 175300 | 176300 | 177300  |
|                                     | Frequency              | 831.5  | 836.5  | 841.5   |
| 10                                  | Channel                | 174800 | 176300 | 177800  |
|                                     | Frequency              | 829    | 836.5  | 844     |
| 5                                   | Channel                | 174300 | 176300 | 178300  |
|                                     | Frequency              | 826.5  | 836.5  | 846.5   |



| 5G NR n25 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 40                                   | Channel                | 390000 | 392500 | 395000  |
|                                      | Frequency              | 1870   | 1882.5 | 1895    |
| 30                                   | Channel                | 389000 | 392500 | 396000  |
|                                      | Frequency              | 1865   | 1882.5 | 1900    |
| 25                                   | Channel                | 388500 | 392500 | 396500  |
|                                      | Frequency              | 1862.5 | 1882.5 | 1902.5  |
| 20                                   | Channel                | 388000 | 392500 | 397000  |
|                                      | Frequency              | 1860   | 1882.5 | 1905    |
| 15                                   | Channel                | 387500 | 392500 | 397500  |
|                                      | Frequency              | 1857.5 | 1882.5 | 1907.5  |
| 10                                   | Channel                | 387000 | 392500 | 398000  |
|                                      | Frequency              | 1855   | 1882.5 | 1910    |
| 5                                    | Channel                | 386500 | 392500 | 398500  |
|                                      | Frequency              | 1852.5 | 1882.5 | 1912.5  |

| 5G NR n26 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                   | Channel                | 175800 | 176300 | 176800  |
|                                      | Frequency              | 834    | 836.5  | 839     |
| 15                                   | Channel                | 175300 | 176300 | 177300  |
|                                      | Frequency              | 831.5  | 836.5  | 841.5   |
| 10                                   | Channel                | 174800 | 176300 | 177800  |
|                                      | Frequency              | 829    | 836.5  | 844     |
| 5                                    | Channel                | 174300 | 176300 | 178300  |
|                                      | Frequency              | 826.5  | 836.5  | 846.5   |



| 5G NR n41 Channel and Frequency List |                        |         |         |         |
|--------------------------------------|------------------------|---------|---------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest  | Middle  | Highest |
| 100                                  | Channel                | 509202  | 518598  | 528000  |
|                                      | Frequency              | 2546.01 | 2592.99 | 2640    |
| 80                                   | Channel                | 507204  | 518598  | 529998  |
|                                      | Frequency              | 2536.02 | 2592.99 | 2649.99 |
| 70                                   | Channel                | 506202  | 518598  | 531000  |
|                                      | Frequency              | 2531.01 | 2592.99 | 2655    |
| 60                                   | Channel                | 505200  | 518598  | 531996  |
|                                      | Frequency              | 2526    | 2592.99 | 2659.98 |
| 50                                   | Channel                | 504204  | 518598  | 532998  |
|                                      | Frequency              | 2521.02 | 2592.99 | 2664.99 |
| 40                                   | Channel                | 503202  | 518598  | 534000  |
|                                      | Frequency              | 2516.01 | 2592.99 | 2670    |
| 30                                   | Channel                | 502200  | 518598  | 534996  |
|                                      | Frequency              | 2511.0  | 2592.99 | 2674.98 |
| 20                                   | Channel                | 501204  | 518598  | 535998  |
|                                      | Frequency              | 2506.02 | 2592.99 | 2679.99 |
| 15                                   | Channel                | 500700  | 518598  | 536496  |
|                                      | Frequency              | 2503.5  | 2592.99 | 2682.48 |
| 10                                   | Channel                | 500202  | 518598  | 537000  |
|                                      | Frequency              | 2501.01 | 2592.99 | 2685    |

| 5G NR n48 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                   | Channel                | 55340  | 55990  | 56640   |
|                                      | Frequency              | 3560.0 | 3625.0 | 3690.0  |
| 15                                   | Channel                | 55315  | 55990  | 56665   |
|                                      | Frequency              | 3557.5 | 3625.0 | 3692.5  |
| 10                                   | Channel                | 55290  | 55990  | 56690   |
|                                      | Frequency              | 3555.0 | 3625.0 | 3695.0  |
| 5                                    | Channel                | 55265  | 55990  | 56715   |
|                                      | Frequency              | 3552.5 | 3625.0 | 3697.5  |



| 5G NR n66 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 40                                   | Channel                | 426000 | 429000 | 432000  |
|                                      | Frequency              | 1730   | 1745   | 1760    |
| 30                                   | Channel                | 425000 | 429000 | 433000  |
|                                      | Frequency              | 1725   | 1745   | 1765    |
| 20                                   | Channel                | 424000 | 429000 | 434000  |
|                                      | Frequency              | 1720   | 1745   | 1770    |
| 15                                   | Channel                | 423500 | 429000 | 434500  |
|                                      | Frequency              | 1717.5 | 1745   | 1772.5  |
| 10                                   | Channel                | 423000 | 429000 | 435000  |
|                                      | Frequency              | 1715   | 1745   | 1775    |
| 5                                    | Channel                | 422500 | 429000 | 435500  |
|                                      | Frequency              | 1712.5 | 1745   | 1777.5  |

| 5G NR n70 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15                                   | Channel                | 400500 |        |         |
|                                      | Frequency              | 1702.5 |        |         |
| 10                                   | Channel                | 400000 | 400500 | 401000  |
|                                      | Frequency              | 1700   | 1702.5 | 1705    |
| 5                                    | Channel                | 399500 | 400500 | 401500  |
|                                      | Frequency              | 1697.5 | 1702.5 | 1707.5  |

| 5G NR n71 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                   | Channel                | 125400 | 126900 | 128400  |
|                                      | Frequency              | 673    | 680.5  | 688     |
| 15                                   | Channel                | 124900 | 126900 | 128900  |
|                                      | Frequency              | 670.5  | 680.5  | 690.5   |
| 10                                   | Channel                | 124400 | 126900 | 129400  |
|                                      | Frequency              | 668    | 680.5  | 693     |
| 5                                    | Channel                | 123900 | 126900 | 129900  |
|                                      | Frequency              | 665.5  | 680.5  | 695.5   |



| 5G NR n77 Channel and Frequency List |                        |         |        |         |
|--------------------------------------|------------------------|---------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest  | Middle | Highest |
| 100                                  | Channel                | 650000  | 656000 | 662000  |
|                                      | Frequency              | 3750    | 3840   | 3930    |
| 90                                   | Channel                | 649668  | 656000 | 662332  |
|                                      | Frequency              | 3745.02 | 3840   | 3934.98 |
| 80                                   | Channel                | 649334  | 656000 | 662666  |
|                                      | Frequency              | 3740.01 | 3840   | 3939.99 |
| 60                                   | Channel                | 648668  | 656000 | 663332  |
|                                      | Frequency              | 3730.02 | 3840   | 3949.98 |
| 50                                   | Channel                | 648334  | 656000 | 663666  |
|                                      | Frequency              | 3725.01 | 3840   | 3954.99 |
| 40                                   | Channel                | 648000  | 656000 | 664000  |
|                                      | Frequency              | 3720    | 3840   | 3960    |
| 20                                   | Channel                | 647334  | 656000 | 664666  |
|                                      | Frequency              | 3710.01 | 3840   | 3969.99 |
| 15                                   | Channel                | 647168  | 656000 | 664832  |
|                                      | Frequency              | 3707.52 | 3840   | 3972.48 |
| 10                                   | Channel                | 647000  | 656000 | 665000  |
|                                      | Frequency              | 3705    | 3840   | 3975    |



| 5G NR n78 Channel and Frequency List |                        |         |        |         |
|--------------------------------------|------------------------|---------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest  | Middle | Highest |
| 100                                  | Channel                | 650000  |        |         |
|                                      | Frequency              | 3750    |        |         |
| 90                                   | Channel                | 649668  | 650000 | 650332  |
|                                      | Frequency              | 3745.02 | 3750   | 3754.98 |
| 80                                   | Channel                | 649334  | 650000 | 650666  |
|                                      | Frequency              | 3740.01 | 3750   | 3759.99 |
| 70                                   | Channel                | 649000  | 650000 | 651000  |
|                                      | Frequency              | 3735    | 3750   | 3765    |
| 60                                   | Channel                | 648668  | 650000 | 651332  |
|                                      | Frequency              | 3730.02 | 3750   | 3769.98 |
| 50                                   | Channel                | 648334  | 650000 | 651666  |
|                                      | Frequency              | 3725.01 | 3750   | 3774.99 |
| 40                                   | Channel                | 648000  | 650000 | 652000  |
|                                      | Frequency              | 3720    | 3750   | 3780    |
| 30                                   | Channel                | 647668  | 650000 | 652332  |
|                                      | Frequency              | 3715.02 | 3750   | 3784.98 |
| 20                                   | Channel                | 647334  | 650000 | 652666  |
|                                      | Frequency              | 3710.01 | 3750   | 3789.99 |
| 15                                   | Channel                | 647168  | 650000 | 652832  |
|                                      | Frequency              | 3707.52 | 3750   | 3792.48 |
| 10                                   | Channel                | 647000  | 650000 | 653000  |
|                                      | Frequency              | 3705    | 3750   | 3795    |

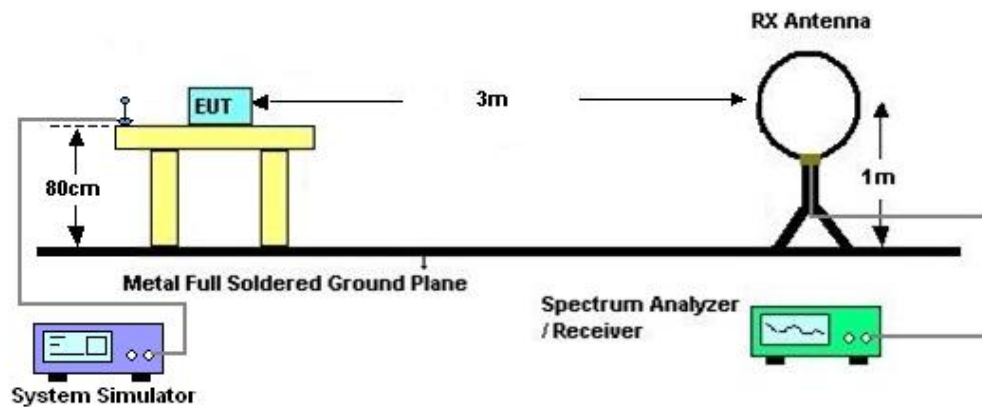
### 3 Radiated Test Items

#### 3.1 Measuring Instruments

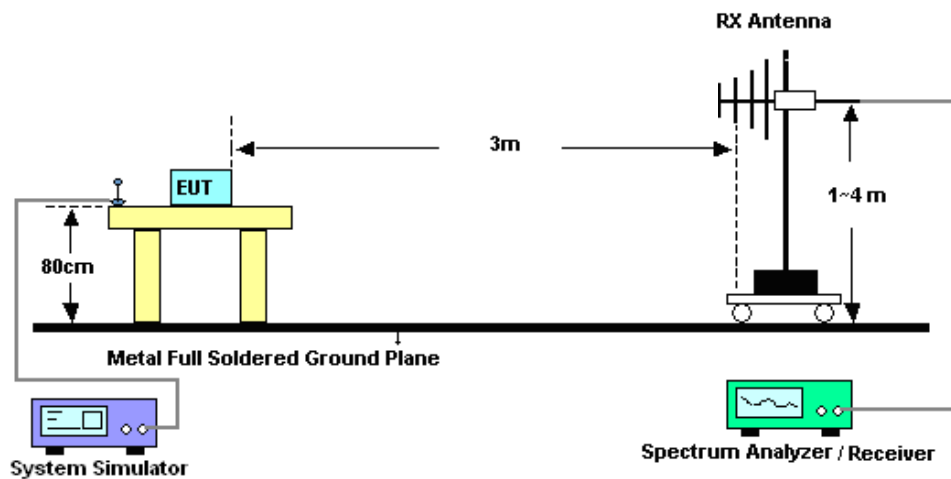
See list of measuring instruments of this test report.

#### 3.2 Test Setup

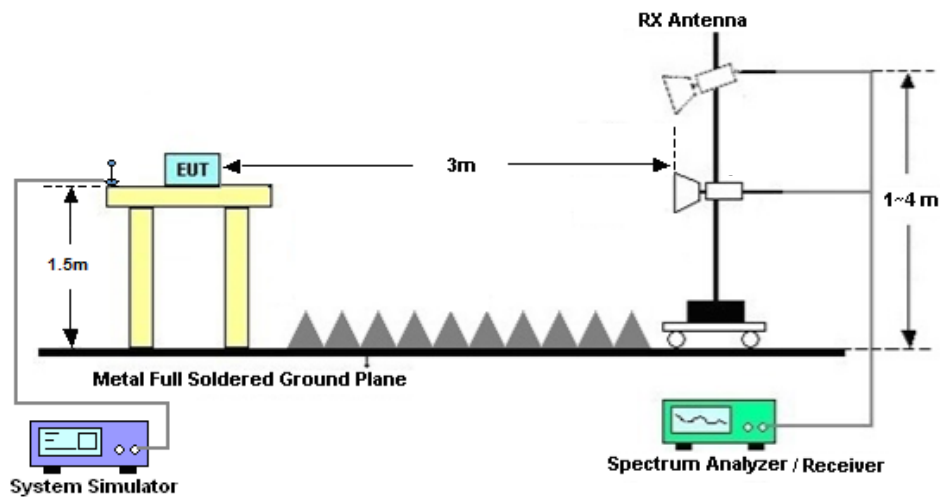
##### 3.2.1 For radiated test below 30MHz



##### 3.2.2 For radiated test from 30MHz to 1GHz



### 3.2.3 For radiated test above 1GHz



### 3.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

### 3.4 Radiated Spurious Emission

#### 3.4.1 Description of Radiated Spurious Emission

For 5G NR n2, n5, n25, n26, n66, n70, n71, n77, n78

The radiated spurious emission was measured by substitution method according to ANSI C63.26.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For 5G NR n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

For 5G NR n48

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP\ (dBm) = S.G.\ Power - Tx\ Cable\ Loss + Tx\ Antenna\ Gain$
11.  $ERP\ (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.  
The limit line is derived from  $43 + 10\log(P)dB$  below the transmitter power  $P(Watts)$   
 $= P(W) - [43 + 10\log(P)]\ (dB)$   
 $= [30 + 10\log(P)]\ (dBm) - [43 + 10\log(P)]\ (dB)$   
 $= -13dBm.$
13. For 5G NR n41:  
The limit line is derived from  $55 + 10\log(P)dB$  below the transmitter power  $P(Watts)$ The limit line is derived from  $55 + 10\log(P)dB$  below the transmitter power  $P(Watts)$
14. For 5G NR n48:  
The RF fundamental frequency should be excluded against the limit line in the operating frequency band.  
The limit line is  $-40dBm/MHz$



## 4 List of Measuring Equipment

| Instrument                | Manufacturer | Model No.                        | Serial No.   | Characteristics | Calibration Date | Test Date    | Due Date      | Remark                |
|---------------------------|--------------|----------------------------------|--------------|-----------------|------------------|--------------|---------------|-----------------------|
| EMI Test Receiver&SA      | Agilent      | N9038A                           | MY52260185   | 20Hz~26.5GHz    | Dec. 27, 2021    | May 27, 2022 | Dec. 26, 2022 | Radiation (03CH01-SZ) |
| Loop Antenna              | R&S          | HFH2-Z2                          | 100354       | 9kHz~30MHz      | Jun. 22, 2020    | May 27, 2022 | Jun. 21, 2022 | Radiation (03CH01-SZ) |
| HF Amplifier              | KEYSIGHT     | 83017A                           | MY53270105   | 0.5GHz~26.5Ghz  | Oct. 22, 2021    | May 27, 2022 | Oct. 21, 2022 | Radiation (03CH01-SZ) |
| Bilog Antenna             | TeseQ        | CBL6112D                         | 35407        | 30MHz-2GHz      | Sep. 28, 2021    | May 27, 2022 | Sep. 27, 2022 | Radiation (03CH01-SZ) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117                             | 00119436     | 1GHz~18GHz      | Jul. 18, 2021    | May 27, 2022 | Jul. 17, 2022 | Radiation (03CH01-SZ) |
| SHF-EHF Horn              | com-power    | AH-840                           | 101071       | 18Ghz-40GHz     | Apr. 10, 2022    | May 27, 2022 | Apr. 09, 2023 | Radiation (03CH01-SZ) |
| LF Amplifier              | Burgeon      | BPA-530                          | 102209       | 0.01~3000Mhz    | Apr. 06, 2022    | May 27, 2022 | Apr. 05, 2023 | Radiation (03CH01-SZ) |
| HF Amplifier              | MITEQ        | AMF-7D-00<br>101800-30-1<br>0P-R | 1943528      | 1GHz~18GHz      | Oct. 22, 2021    | May 27, 2022 | Oct. 21, 2022 | Radiation (03CH01-SZ) |
| HF Amplifier              | MITEQ        | TTA1840-35<br>-HG                | 1871923      | 18GHz~40GHz     | Jul. 13, 2021    | May 27, 2022 | Jul. 12, 2022 | Radiation (03CH01-SZ) |
| AC Power Source           | Chroma       | 61601                            | 616010001985 | N/A             | NCR              | May 27, 2022 | NCR           | Radiation (03CH01-SZ) |
| Turn Table                | EM           | EM1000                           | N/A          | 0~360 degree    | NCR              | May 27, 2022 | NCR           | Radiation (03CH01-SZ) |
| Antenna Mast              | EM           | EM1000                           | N/A          | 1 m~4 m         | NCR              | May 27, 2022 | NCR           | Radiation (03CH01-SZ) |

NCR: No Calibration Required



## 5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. 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.

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.48dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.53dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.02dB |
|-------------------------------------------------------------------------|--------|

----- THE END -----



## Appendix A. Test Results of Radiated Test

### Radiated Spurious Emission

|                 |               |                     |         |
|-----------------|---------------|---------------------|---------|
| Test Engineer : | Zhaohui Liang | Temperature :       | 22~25°C |
|                 |               | Relative Humidity : | 48~52%  |

| EN-CA_n2A_n5A / NR 20MHz + NR 20MHz / QPSK / ANT1+1 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-----------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                             | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n2 Middle                                        | 3741.5            | -60.36       | -13           | -47.36            | -76.99            | -67.11             | 5.85                 | 12.60                 | H                  |
|                                                     | 5612.25           | -59.26       | -13           | -46.26            | -78.75            | -65.06             | 7.30                 | 13.10                 | H                  |
|                                                     | 7483              | -54.91       | -13           | -41.91            | -78.66            | -58.06             | 8.35                 | 11.50                 | H                  |
|                                                     | 3741.5            | -60.84       | -13           | -47.84            | -77.09            | -67.59             | 5.85                 | 12.60                 | V                  |
|                                                     | 5612.25           | -60.22       | -13           | -47.22            | -79.22            | -66.02             | 7.30                 | 13.10                 | V                  |
|                                                     | 7483              | -54.05       | -13           | -41.05            | -78.19            | -57.20             | 8.35                 | 11.50                 | V                  |
| NR n5 Middle                                        | 1654.5            | -66.50       | -13           | -53.50            | -73.73            | -69.75             | 4.00                 | 9.40                  | H                  |
|                                                     | 2481.75           | -54.21       | -13           | -41.21            | -65.83            | -57.78             | 4.88                 | 10.60                 | H                  |
|                                                     | 3309              | -62.33       | -13           | -49.33            | -77.26            | -67.26             | 5.52                 | 12.60                 | H                  |
|                                                     | 1654.5            | -67.04       | -13           | -54.04            | -74.35            | -70.29             | 4.00                 | 9.40                  | V                  |
|                                                     | 2481.75           | -56.06       | -13           | -43.06            | -67.74            | -59.63             | 4.88                 | 10.60                 | V                  |
|                                                     | 3309              | -62.36       | -13           | -49.36            | -77.23            | -67.29             | 5.52                 | 12.60                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-CA_n2A_n66A / NR 20MHz + NR 40MHz / QPSK / ANT1+1 |                   |              |               |                   |                   |                    |                      |                       |                    |
|------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                              | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n2 Middle                                         | 3741.5            | -60.56       | -13           | -47.56            | -77.19            | -67.31             | 5.85                 | 12.60                 | H                  |
|                                                      | 5612.25           | -59.15       | -13           | -46.15            | -78.64            | -64.95             | 7.30                 | 13.10                 | H                  |
|                                                      | 7483              | -55.03       | -13           | -42.03            | -78.78            | -58.18             | 8.35                 | 11.50                 | H                  |
|                                                      | 3741.5            | -61.12       | -13           | -48.12            | -77.37            | -67.87             | 5.85                 | 12.60                 | V                  |
|                                                      | 5612.25           | -60.31       | -13           | -47.31            | -79.31            | -66.11             | 7.30                 | 13.10                 | V                  |
|                                                      | 7483              | -54.73       | -13           | -41.73            | -78.87            | -57.88             | 8.35                 | 11.50                 | V                  |
| NR n66 Middle                                        | 3490              | -62.51       | -13           | -49.51            | -77.87            | -69.36             | 5.65                 | 12.50                 | H                  |
|                                                      | 5235              | -60.42       | -13           | -47.42            | -79.71            | -66.09             | 7.13                 | 12.80                 | H                  |
|                                                      | 6980              | -57.09       | -13           | -44.09            | -79.33            | -60.49             | 8.40                 | 11.80                 | H                  |
|                                                      | 3490              | -62.58       | -13           | -49.58            | -77.98            | -69.43             | 5.65                 | 12.50                 | V                  |
|                                                      | 5235              | -60.68       | -13           | -47.68            | -79.54            | -66.35             | 7.13                 | 12.80                 | V                  |
|                                                      | 6980              | -56.61       | -13           | -43.61            | -79.06            | -60.01             | 8.40                 | 11.80                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-CA_n5A_n66A / NR 20MHz + NR 40MHz / QPSK / ANT1+1 |                   |              |               |                   |                   |                    |                      |                       |                    |
|------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                              | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n5 Middle                                         | 1654.5            | -66.88       | -13           | -53.88            | -74.11            | -70.13             | 4.00                 | 9.40                  | H                  |
|                                                      | 2481.75           | -58.57       | -13           | -45.57            | -70.19            | -62.14             | 4.88                 | 10.60                 | H                  |
|                                                      | 3309              | -61.86       | -13           | -48.86            | -76.79            | -66.79             | 5.52                 | 12.60                 | H                  |
|                                                      | 1654.5            | -66.87       | -13           | -53.87            | -74.18            | -70.12             | 4.00                 | 9.40                  | V                  |
|                                                      | 2481.75           | -57.56       | -13           | -44.56            | -69.24            | -61.13             | 4.88                 | 10.60                 | V                  |
|                                                      | 3309              | -62.02       | -13           | -49.02            | -76.89            | -66.95             | 5.52                 | 12.60                 | V                  |
| NR n66 Middle                                        | 3490              | -62.46       | -13           | -49.46            | -77.82            | -69.31             | 5.65                 | 12.50                 | H                  |
|                                                      | 5235              | -60.50       | -13           | -47.50            | -79.79            | -66.17             | 7.13                 | 12.80                 | H                  |
|                                                      | 6980              | -57.24       | -13           | -44.24            | -79.48            | -60.64             | 8.40                 | 11.80                 | H                  |
|                                                      | 3490              | -62.28       | -13           | -49.28            | -77.68            | -69.13             | 5.65                 | 12.50                 | V                  |
|                                                      | 5235              | -60.98       | -13           | -47.98            | -79.84            | -66.65             | 7.13                 | 12.80                 | V                  |
|                                                      | 6980              | -56.72       | -13           | -43.72            | -79.17            | -60.12             | 8.40                 | 11.80                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-CA_n25A_n41A / NR 40MHz + NR 100MHz / QPSK / ANT1+6 |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                                | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n25 Middle                                          | 3726              | -59.01       | -13           | -46.01            | -75.60            | -65.76             | 5.85                 | 12.60                 | H                  |
|                                                        | 5592              | -60.11       | -13           | -47.11            | -79.35            | -65.91             | 7.30                 | 13.10                 | H                  |
|                                                        | 7456              | -54.48       | -13           | -41.48            | -78.29            | -57.63             | 8.35                 | 11.50                 | H                  |
|                                                        | 3726              | -58.57       | -13           | -45.57            | -74.83            | -65.32             | 5.85                 | 12.60                 | V                  |
|                                                        | 5592              | -59.94       | -13           | -46.94            | -79.01            | -65.74             | 7.30                 | 13.10                 | V                  |
|                                                        | 7456              | -54.23       | -13           | -41.23            | -78.41            | -57.38             | 8.35                 | 11.50                 | V                  |
| NR n41 Middle                                          | 5089.00           | -58.82       | -25           | -33.82            | -78.47            | -64.38             | 7.14                 | 12.70                 | H                  |
|                                                        | 7633.00           | -54.80       | -25           | -29.80            | -78.31            | -58.10             | 8.30                 | 11.60                 | H                  |
|                                                        | 10178.00          | -52.07       | -25           | -27.07            | -79.00            | -53.59             | 10.48                | 12.00                 | H                  |
|                                                        | 5089.00           | -59.32       | -25           | -34.32            | -78.8             | -64.88             | 7.14                 | 12.70                 | V                  |
|                                                        | 7633.00           | -54.85       | -25           | -29.85            | -78.89            | -58.15             | 8.30                 | 11.60                 | V                  |
|                                                        | 10178.00          | -53.60       | -25           | -28.60            | -79.3             | -55.12             | 10.48                | 12.00                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-CA_n26A_n66A / NR 20MHz + NR 40MHz / QPSK / ANT1+1 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                               | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n26 Middle                                         | 1663              | -67.73       | -13           | -54.73            | -74.76            | -70.98             | 4.00                 | 9.40                  | H                  |
|                                                       | 2494              | -64.00       | -13           | -51.00            | -75.67            | -67.57             | 4.88                 | 10.60                 | H                  |
|                                                       | 3325              | -62.42       | -13           | -49.42            | -77.30            | -67.35             | 5.52                 | 12.60                 | H                  |
|                                                       | 1663              | -67.59       | -13           | -54.59            | -74.75            | -70.84             | 4.00                 | 9.40                  | V                  |
|                                                       | 2494              | -63.82       | -13           | -50.82            | -75.58            | -67.39             | 4.88                 | 10.60                 | V                  |
|                                                       | 3325              | -62.11       | -13           | -49.11            | -76.96            | -67.04             | 5.52                 | 12.60                 | V                  |
| NR n66 Middle                                         | 3490              | -62.23       | -13           | -49.23            | -77.59            | -69.08             | 5.65                 | 12.50                 | H                  |
|                                                       | 5235              | -60.06       | -13           | -47.06            | -79.35            | -65.73             | 7.13                 | 12.80                 | H                  |
|                                                       | 6980              | -56.74       | -13           | -43.74            | -78.98            | -60.14             | 8.40                 | 11.80                 | H                  |
|                                                       | 3490              | -62.18       | -13           | -49.18            | -77.58            | -69.03             | 5.65                 | 12.50                 | V                  |
|                                                       | 5235              | -60.57       | -13           | -47.57            | -79.43            | -66.24             | 7.13                 | 12.80                 | V                  |
|                                                       | 6980              | -56.79       | -13           | -43.79            | -79.24            | -60.19             | 8.40                 | 11.80                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-CA_n26A_n70A / NR 20MHz + NR 15MHz / QPSK / ANT1+1 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                               | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n26 Middle                                         | 1663              | -68.02       | -13           | -55.02            | -75.05            | -71.27             | 4.00                 | 9.40                  | H                  |
|                                                       | 2494              | -64.33       | -13           | -51.33            | -76.00            | -67.90             | 4.88                 | 10.60                 | H                  |
|                                                       | 3326              | -62.69       | -13           | -49.69            | -77.56            | -67.62             | 5.52                 | 12.60                 | H                  |
|                                                       | 1663              | -67.72       | -13           | -54.72            | -74.88            | -70.97             | 4.00                 | 9.40                  | V                  |
|                                                       | 2494              | -64.20       | -13           | -51.20            | -75.96            | -67.77             | 4.88                 | 10.60                 | V                  |
|                                                       | 3326              | -62.55       | -13           | -49.55            | -77.40            | -67.48             | 5.52                 | 12.60                 | V                  |
| NR n70 Middle                                         | 3405              | -63.36       | -13           | -50.36            | -78.31            | -70.21             | 5.65                 | 12.50                 | H                  |
|                                                       | 5107.5            | -60.34       | -13           | -47.34            | -80.01            | -66.01             | 7.13                 | 12.80                 | H                  |
|                                                       | 6810              | -58.39       | -13           | -45.39            | -80.46            | -61.79             | 8.40                 | 11.80                 | H                  |
|                                                       | 3405              | -63.17       | -13           | -50.17            | -78.14            | -70.02             | 5.65                 | 12.50                 | V                  |
|                                                       | 5107.5            | -60.26       | -13           | -47.26            | -79.72            | -65.93             | 7.13                 | 12.80                 | V                  |
|                                                       | 6810              | -58.13       | -13           | -45.13            | -80.68            | -61.53             | 8.40                 | 11.80                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-CA_n41A_n66A / NR 100MHz + NR 40MHz / QPSK / ANT6+1 |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                                | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n41 Middle                                          | 5177.76           | -59.99       | -25           | -34.99            | -79.62            | -65.55             | 7.14                 | 12.70                 | H                  |
|                                                        | 7633.50           | -55.68       | -25           | -30.68            | -79.19            | -58.98             | 8.30                 | 11.60                 | H                  |
|                                                        | 10178.00          | -52.73       | -25           | -27.73            | -79.66            | -54.25             | 10.48                | 12.00                 | H                  |
|                                                        | 5177.76           | -60.70       | -25           | -35.70            | -79.99            | -66.26             | 7.14                 | 12.70                 | V                  |
|                                                        | 7633.50           | -55.23       | -25           | -30.23            | -79.27            | -58.53             | 8.30                 | 11.60                 | V                  |
|                                                        | 10178.00          | -54.25       | -25           | -29.25            | -79.95            | -55.77             | 10.48                | 12.00                 | V                  |
| NR n66 Middle                                          | 3534              | -61.89       | -13           | -48.89            | -77.50            | -68.74             | 5.65                 | 12.50                 | H                  |
|                                                        | 5089              | -59.56       | -13           | -46.56            | -79.21            | -65.23             | 7.13                 | 12.80                 | H                  |
|                                                        | 6903.68           | -57.72       | -13           | -44.72            | -79.84            | -61.12             | 8.40                 | 11.80                 | H                  |
|                                                        | 3534              | -62.13       | -13           | -49.13            | -77.79            | -68.98             | 5.65                 | 12.50                 | V                  |
|                                                        | 5089              | -59.61       | -13           | -46.61            | -79.09            | -65.28             | 7.13                 | 12.80                 | V                  |
|                                                        | 6903.68           | -57.16       | -13           | -44.16            | -79.61            | -60.56             | 8.40                 | 11.80                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-CA_n41A_n71A / NR 100MHz + NR 20MHz / QPSK / ANT6+0 |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                                | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n41 Middle                                          | 5089.00           | -59.57       | -25           | -34.57            | -79.22            | -65.13             | 7.14                 | 12.70                 | H                  |
|                                                        | 7633.50           | -55.58       | -25           | -30.58            | -79.09            | -58.88             | 8.30                 | 11.60                 | H                  |
|                                                        | 10178.00          | -52.55       | -25           | -27.55            | -79.48            | -54.07             | 10.48                | 12.00                 | H                  |
|                                                        | 5089.00           | -59.62       | -25           | -34.62            | -79.1             | -65.18             | 7.14                 | 12.70                 | V                  |
|                                                        | 7633.50           | -54.64       | -25           | -29.64            | -78.68            | -57.94             | 8.30                 | 11.60                 | V                  |
|                                                        | 10178.00          | -54.18       | -25           | -29.18            | -79.88            | -55.70             | 10.48                | 12.00                 | V                  |
| NR n71 Middle                                          | 1360              | -65.63       | -13           | -52.63            | -73.44            | -68.88             | 4.00                 | 9.40                  | H                  |
|                                                        | 2041              | -65.93       | -13           | -52.93            | -75.62            | -69.50             | 4.88                 | 10.60                 | H                  |
|                                                        | 2722              | -63.37       | -13           | -50.37            | -76.50            | -68.30             | 5.52                 | 12.60                 | H                  |
|                                                        | 1360              | -65.81       | -13           | -52.81            | -73.54            | -69.06             | 4.00                 | 9.40                  | V                  |
|                                                        | 2041              | -65.98       | -13           | -52.98            | -75.82            | -69.55             | 4.88                 | 10.60                 | V                  |
|                                                        | 2722              | -63.63       | -13           | -50.63            | -76.66            | -68.56             | 5.52                 | 12.60                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-CA n41A n77A / NR 100MHz + NR 100MHz / QPSK / ANT6+3 |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                                 | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n41 Middle                                           | 5089.00           | -59.30       | -25           | -34.30            | -78.95            | -64.86             | 7.14                 | 12.70                 | H                  |
|                                                         | 7633.50           | -55.27       | -25           | -30.27            | -78.78            | -58.57             | 8.30                 | 11.60                 | H                  |
|                                                         | 10178.00          | -52.66       | -25           | -27.66            | -79.59            | -54.18             | 10.48                | 12.00                 | H                  |
|                                                         | 5089.00           | -59.54       | -25           | -34.54            | -79.02            | -65.10             | 7.14                 | 12.70                 | V                  |
|                                                         | 7633.50           | -54.74       | -25           | -29.74            | -78.78            | -58.04             | 8.30                 | 11.60                 | V                  |
|                                                         | 10178.00          | -53.70       | -25           | -28.70            | -79.4             | -55.22             | 10.48                | 12.00                 | V                  |
| NR n77 Middle                                           | 7680              | -55.40       | -13           | -42.40            | -78.86            | -58.70             | 8.30                 | 11.60                 | H                  |
|                                                         | 11520             | -49.73       | -13           | -36.73            | -80.17            | -51.25             | 10.48                | 12.00                 | H                  |
|                                                         | 15360             | -47.38       | -13           | -34.38            | -81.36            | -49.08             | 11.80                | 13.50                 | H                  |
|                                                         | 7680              | -54.64       | -13           | -41.64            | -78.67            | -57.94             | 8.30                 | 11.60                 | V                  |
|                                                         | 11520             | -49.53       | -13           | -36.53            | -80.01            | -51.05             | 10.48                | 12.00                 | V                  |
|                                                         | 15360             | -47.04       | -13           | -34.04            | -81.53            | -48.74             | 11.80                | 13.50                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-CA n41A n78A / NR 100MHz + NR 100MHz / QPSK / ANT6+3 |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                                 | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n41 Middle                                           | 5089.00           | -59.56       | -25           | -34.56            | -79.21            | -65.12             | 7.14                 | 12.70                 | H                  |
|                                                         | 7633.50           | -55.46       | -25           | -30.46            | -78.97            | -58.76             | 8.30                 | 11.60                 | H                  |
|                                                         | 10178.00          | -52.49       | -25           | -27.49            | -79.42            | -54.01             | 10.48                | 12.00                 | H                  |
|                                                         | 5089.00           | -59.23       | -25           | -34.23            | -78.71            | -64.79             | 7.14                 | 12.70                 | V                  |
|                                                         | 7633.50           | -54.71       | -25           | -29.71            | -78.75            | -58.01             | 8.30                 | 11.60                 | V                  |
|                                                         | 10178.00          | -53.94       | -25           | -28.94            | -79.64            | -55.46             | 10.48                | 12.00                 | V                  |
| NR n78 Middle                                           | 7500              | -55.39       | -13           | -42.39            | -79.10            | -56.91             | 11.98                | 13.50                 | H                  |
|                                                         | 11250             | -50.87       | -13           | -37.87            | -80.09            | -50.87             | 13.60                | 13.60                 | H                  |
|                                                         | 15000             | -47.37       | -13           | -34.37            | -80.75            | -46.97             | 15.50                | 15.10                 | H                  |
|                                                         | 7500              | -55.43       | -13           | -42.43            | -79.55            | -56.95             | 11.98                | 13.50                 | V                  |
|                                                         | 11250             | -51.28       | -13           | -38.28            | -80.36            | -51.28             | 13.60                | 13.60                 | V                  |
|                                                         | 15000             | -44.72       | -13           | -31.72            | -80.57            | -44.32             | 15.50                | 15.10                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-CA_n48A_n70A / NR 20MHz + NR 15MHz / QPSK / ANT8+1 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                               | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n48 Middle                                         | 7249.98           | -57.32       | -40           | -17.32            | -80.51            | -60.62             | 8.30                 | 11.60                 | H                  |
|                                                       | 10874.97          | -58.15       | -40           | -18.15            | -85.87            | -59.67             | 10.48                | 12.00                 | H                  |
|                                                       | 14499.96          | -55.49       | -40           | -15.49            | -86.51            | -57.19             | 11.80                | 13.50                 | H                  |
|                                                       | 7249.98           | -57.05       | -40           | -17.05            | -80.96            | -60.35             | 8.30                 | 11.60                 | V                  |
|                                                       | 10874.97          | -58.65       | -40           | -18.65            | -85.92            | -60.17             | 10.48                | 12.00                 | V                  |
|                                                       | 14499.96          | -53.58       | -40           | -13.58            | -86.31            | -55.28             | 11.80                | 13.50                 | V                  |
| NR n70 Middle                                         | 3405              | -65.24       | -13           | -52.24            | -80.19            | -72.09             | 5.65                 | 12.50                 | H                  |
|                                                       | 5107.5            | -61.67       | -13           | -48.67            | -81.34            | -67.34             | 7.13                 | 12.80                 | H                  |
|                                                       | 6810              | -60.35       | -13           | -47.35            | -82.42            | -63.75             | 8.40                 | 11.80                 | H                  |
|                                                       | 3405              | -65.06       | -13           | -52.06            | -80.03            | -71.91             | 5.65                 | 12.50                 | V                  |
|                                                       | 5107.5            | -62.64       | -13           | -49.64            | -82.1             | -68.31             | 7.13                 | 12.80                 | V                  |
|                                                       | 6810              | -60.05       | -13           | -47.05            | -82.6             | -63.45             | 8.40                 | 11.80                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-CA_n48A_n77A / NR 20MHz + NR 100MHz / QPSK / ANT3+5 |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                                | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n48 Middle                                          | 7249.98           | -57.44       | -40           | -17.44            | -80.63            | -60.74             | 8.30                 | 11.60                 | H                  |
|                                                        | 10874.97          | -57.46       | -40           | -17.46            | -85.18            | -58.98             | 10.48                | 12.00                 | H                  |
|                                                        | 14499.96          | -55.31       | -40           | -15.31            | -86.33            | -57.01             | 11.80                | 13.50                 | H                  |
|                                                        | 7249.98           | -56.50       | -40           | -16.50            | -80.41            | -59.80             | 8.30                 | 11.60                 | V                  |
|                                                        | 10874.97          | -58.04       | -40           | -18.04            | -85.31            | -59.56             | 10.48                | 12.00                 | V                  |
|                                                        | 14499.96          | -53.88       | -40           | -13.88            | -86.61            | -55.58             | 11.80                | 13.50                 | V                  |
| NR n77 Middle                                          | 7680              | -57.05       | -13           | -44.05            | -80.51            | -60.35             | 8.30                 | 11.60                 | H                  |
|                                                        | 11520             | -55.67       | -13           | -42.67            | -86.11            | -57.19             | 10.48                | 12.00                 | H                  |
|                                                        | 15360             | -53.35       | -13           | -40.35            | -87.33            | -55.05             | 11.80                | 13.50                 | H                  |
|                                                        | 7680              | -56.05       | -13           | -43.05            | -80.08            | -59.35             | 8.30                 | 11.60                 | V                  |
|                                                        | 11520             | -55.40       | -13           | -42.40            | -85.88            | -56.92             | 10.48                | 12.00                 | V                  |
|                                                        | 15360             | -52.92       | -13           | -39.92            | -87.41            | -54.62             | 11.80                | 13.50                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-CA_n66A_n71A / NR 40MHz + NR 20MHz / QPSK / ANT1+0 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                               | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n66 Middle                                         | 3490              | -62.03       | -13           | -49.03            | -77.39            | -68.88             | 5.65                 | 12.50                 | H                  |
|                                                       | 5235              | -60.06       | -13           | -47.06            | -79.35            | -65.73             | 7.13                 | 12.80                 | H                  |
|                                                       | 6980              | -56.89       | -13           | -43.89            | -79.13            | -60.29             | 8.40                 | 11.80                 | H                  |
|                                                       | 3490              | -62.19       | -13           | -49.19            | -77.59            | -69.04             | 5.65                 | 12.50                 | V                  |
|                                                       | 5235              | -60.51       | -13           | -47.51            | -79.37            | -66.18             | 7.13                 | 12.80                 | V                  |
|                                                       | 6980              | -56.97       | -13           | -43.97            | -79.42            | -60.37             | 8.40                 | 11.80                 | V                  |
| NR n71 Middle                                         | 1360              | -65.24       | -13           | -52.24            | -73.05            | -68.49             | 4.00                 | 9.40                  | H                  |
|                                                       | 2041              | -65.47       | -13           | -52.47            | -75.16            | -69.04             | 4.88                 | 10.60                 | H                  |
|                                                       | 2722              | -63.22       | -13           | -50.22            | -76.35            | -68.15             | 5.52                 | 12.60                 | H                  |
|                                                       | 1360              | -65.34       | -13           | -52.34            | -73.07            | -68.59             | 4.00                 | 9.40                  | V                  |
|                                                       | 2041              | -65.11       | -13           | -52.11            | -74.95            | -68.68             | 4.88                 | 10.60                 | V                  |
|                                                       | 2722              | -63.00       | -13           | -50.00            | -76.03            | -67.93             | 5.52                 | 12.60                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-CA_n66A_n77A / NR 40MHz + NR 100MHz / QPSK / ANT1+3 |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                                | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n66 Middle                                          | 3490              | -62.09       | -13           | -49.09            | -77.45            | -68.94             | 5.65                 | 12.50                 | H                  |
|                                                        | 5235              | -59.87       | -13           | -46.87            | -79.16            | -65.54             | 7.13                 | 12.80                 | H                  |
|                                                        | 6980              | -56.68       | -13           | -43.68            | -78.92            | -60.08             | 8.40                 | 11.80                 | H                  |
|                                                        | 3490              | -62.20       | -13           | -49.20            | -77.6             | -69.05             | 5.65                 | 12.50                 | V                  |
|                                                        | 5235              | -60.61       | -13           | -47.61            | -79.47            | -66.28             | 7.13                 | 12.80                 | V                  |
|                                                        | 6980              | -56.54       | -13           | -43.54            | -78.99            | -59.94             | 8.40                 | 11.80                 | V                  |
| NR n77 Middle                                          | 7680              | -54.78       | -13           | -41.78            | -78.24            | -58.08             | 8.30                 | 11.60                 | H                  |
|                                                        | 11520             | -49.16       | -13           | -36.16            | -79.60            | -50.68             | 10.48                | 12.00                 | H                  |
|                                                        | 15360             | -47.23       | -13           | -34.23            | -81.21            | -48.93             | 11.80                | 13.50                 | H                  |
|                                                        | 7680              | -54.14       | -13           | -41.14            | -78.17            | -57.44             | 8.30                 | 11.60                 | V                  |
|                                                        | 11520             | -49.35       | -13           | -36.35            | -79.83            | -50.87             | 10.48                | 12.00                 | V                  |
|                                                        | 15360             | -46.49       | -13           | -33.49            | -80.98            | -48.19             | 11.80                | 13.50                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-CA_n70A_n71A / NR 15MHz + NR 20MHz / QPSK / ANT1+0 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                               | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n70<br>Middle                                      | 3405              | -63.04       | -13           | -50.04            | -77.99            | -69.89             | 5.65                 | 12.50                 | H                  |
|                                                       | 5107.5            | -60.25       | -13           | -47.25            | -79.92            | -65.92             | 7.13                 | 12.80                 | H                  |
|                                                       | 6810              | -58.09       | -13           | -45.09            | -80.16            | -61.49             | 8.40                 | 11.80                 | H                  |
|                                                       | 3405              | -62.87       | -13           | -49.87            | -77.84            | -69.72             | 5.65                 | 12.50                 | V                  |
|                                                       | 5107.5            | -60.30       | -13           | -47.30            | -79.76            | -65.97             | 7.13                 | 12.80                 | V                  |
|                                                       | 6810              | -57.65       | -13           | -44.65            | -80.2             | -61.05             | 8.40                 | 11.80                 | V                  |
| NR n71<br>Middle                                      | 1360              | -65.33       | -13           | -52.33            | -73.14            | -68.58             | 4.00                 | 9.40                  | H                  |
|                                                       | 2041              | -65.20       | -13           | -52.20            | -74.89            | -68.77             | 4.88                 | 10.60                 | H                  |
|                                                       | 2722              | -62.99       | -13           | -49.99            | -76.12            | -67.92             | 5.52                 | 12.60                 | H                  |
|                                                       | 1360              | -65.48       | -13           | -52.48            | -73.21            | -68.73             | 4.00                 | 9.40                  | V                  |
|                                                       | 2041              | -65.65       | -13           | -52.65            | -75.49            | -69.22             | 4.88                 | 10.60                 | V                  |
|                                                       | 2722              | -63.03       | -13           | -50.03            | -76.06            | -67.96             | 5.52                 | 12.60                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_n2A_n48A / NR 20MHz + NR 20MHz / QPSK / ANT1+8 |                   |              |               |                   |                   |                    |                      |                       |                    |
|------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                              | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n2<br>Middle                                      | 3741.5            | -63.02       | -13           | -50.02            | -60.13            | -69.77             | 5.85                 | 12.60                 | H                  |
|                                                      | 5612.25           | -58.72       | -13           | -45.72            | -61.43            | -64.52             | 7.30                 | 13.10                 | H                  |
|                                                      | 7483              | -57.38       | -13           | -44.38            | -63.60            | -60.53             | 8.35                 | 11.50                 | H                  |
|                                                      | 3741.5            | -64.43       | -13           | -51.43            | -61.16            | -71.18             | 5.85                 | 12.60                 | V                  |
|                                                      | 5612.25           | -59.79       | -13           | -46.79            | -62.01            | -65.59             | 7.30                 | 13.10                 | V                  |
|                                                      | 7483              | -57.10       | -13           | -44.10            | -63.71            | -60.25             | 8.35                 | 11.50                 | V                  |
| NR n48<br>Middle                                     | 7249.98           | -57.74       | -40           | -17.74            | -63.57            | -61.04             | 8.30                 | 11.60                 | H                  |
|                                                      | 10874.97          | -55.91       | -40           | -15.91            | -66.34            | -57.43             | 10.48                | 12.00                 | H                  |
|                                                      | 14499.96          | -55.16       | -40           | -15.16            | -66.98            | -56.86             | 11.80                | 13.50                 | H                  |
|                                                      | 7249.98           | -57.33       | -40           | -17.33            | -63.88            | -60.63             | 8.30                 | 11.60                 | V                  |
|                                                      | 10874.97          | -56.54       | -40           | -16.54            | -66.52            | -58.06             | 10.48                | 12.00                 | V                  |
|                                                      | 14499.96          | -53.07       | -40           | -13.07            | -66.60            | -54.77             | 11.80                | 13.50                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-DC_n2A_n77A / NR 20MHz + NR 100MHz / QPSK / ANT1+3 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                               | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n2 Middle                                          | 3741.5            | -58.77       | -13           | -45.77            | -75.40            | -65.52             | 5.85                 | 12.60                 | H                  |
|                                                       | 5612.25           | -58.86       | -13           | -45.86            | -78.35            | -64.66             | 7.30                 | 13.10                 | H                  |
|                                                       | 7483              | -54.38       | -13           | -41.38            | -78.13            | -57.53             | 8.35                 | 11.50                 | H                  |
|                                                       | 3741.5            | -59.65       | -13           | -46.65            | -75.9             | -66.40             | 5.85                 | 12.60                 | V                  |
|                                                       | 5612.25           | -59.69       | -13           | -46.69            | -78.69            | -65.49             | 7.30                 | 13.10                 | V                  |
|                                                       | 7483              | -54.34       | -13           | -41.34            | -78.48            | -57.49             | 8.35                 | 11.50                 | V                  |
| NR n77 Middle                                         | 7680              | -54.60       | -13           | -41.60            | -78.06            | -57.90             | 8.30                 | 11.60                 | H                  |
|                                                       | 11520             | -48.92       | -13           | -35.92            | -79.36            | -50.44             | 10.48                | 12.00                 | H                  |
|                                                       | 15360             | -47.17       | -13           | -34.17            | -81.15            | -48.87             | 11.80                | 13.50                 | H                  |
|                                                       | 7680              | -54.24       | -13           | -41.24            | -78.27            | -57.54             | 8.30                 | 11.60                 | V                  |
|                                                       | 11520             | -48.92       | -13           | -35.92            | -79.4             | -50.44             | 10.48                | 12.00                 | V                  |
|                                                       | 15360             | -46.73       | -13           | -33.73            | -81.22            | -48.43             | 11.80                | 13.50                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_n5A_n48A / NR 20MHz + NR 20MHz / QPSK / ANT1+3 |                   |              |               |                   |                   |                    |                      |                       |                    |
|------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                              | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n5 Middle                                         | 1654.5            | -70.68       | -13           | -57.68            | -60.01            | -73.93             | 4.00                 | 9.40                  | H                  |
|                                                      | 2481.75           | -53.01       | -13           | -40.01            | -45.65            | -56.58             | 4.88                 | 10.60                 | H                  |
|                                                      | 3309              | -65.07       | -13           | -52.07            | -60.65            | -70.00             | 5.52                 | 12.60                 | H                  |
|                                                      | 1654.5            | -71.11       | -13           | -58.11            | -60.52            | -74.36             | 4.00                 | 9.40                  | V                  |
|                                                      | 2481.75           | -55.30       | -13           | -42.30            | -48.00            | -58.87             | 4.88                 | 10.60                 | V                  |
|                                                      | 3309              | -64.72       | -13           | -51.72            | -60.24            | -69.65             | 5.52                 | 12.60                 | V                  |
| NR n48 Middle                                        | 7249.98           | -57.99       | -40           | -17.99            | -63.82            | -61.29             | 8.30                 | 11.60                 | H                  |
|                                                      | 10874.97          | -56.14       | -40           | -16.14            | -66.57            | -57.66             | 10.48                | 12.00                 | H                  |
|                                                      | 14499.96          | -55.37       | -40           | -15.37            | -67.19            | -57.07             | 11.80                | 13.50                 | H                  |
|                                                      | 7249.98           | -57.43       | -40           | -17.43            | -63.98            | -60.73             | 8.30                 | 11.60                 | V                  |
|                                                      | 10874.97          | -56.71       | -40           | -16.71            | -66.69            | -58.23             | 10.48                | 12.00                 | V                  |
|                                                      | 14499.96          | -53.44       | -40           | -13.44            | -66.97            | -55.14             | 11.80                | 13.50                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-DC_n5A_n77A / NR 20MHz + NR 100MHz / QPSK / ANT1+3 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                               | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n5 Middle                                          | 1654.5            | -71.02       | -13           | -58.02            | -60.35            | -74.27             | 4.00                 | 9.40                  | H                  |
|                                                       | 2481.75           | -59.94       | -13           | -46.94            | -52.58            | -63.51             | 4.88                 | 10.60                 | H                  |
|                                                       | 3309              | -62.08       | -13           | -49.08            | -57.66            | -67.01             | 5.52                 | 12.60                 | H                  |
|                                                       | 1654.5            | -71.19       | -13           | -58.19            | -60.60            | -74.44             | 4.00                 | 9.40                  | V                  |
|                                                       | 2481.75           | -61.19       | -13           | -48.19            | -53.89            | -64.76             | 4.88                 | 10.60                 | V                  |
|                                                       | 3309              | -59.05       | -13           | -46.05            | -54.57            | -63.98             | 5.52                 | 12.60                 | V                  |
| NR n77 Middle                                         | 7680              | -58.32       | -13           | -45.32            | -64.04            | -61.62             | 8.30                 | 11.60                 | H                  |
|                                                       | 11520             | -55.69       | -13           | -42.69            | -67.80            | -57.21             | 10.48                | 12.00                 | H                  |
|                                                       | 15360             | -53.39       | -13           | -40.39            | -68.30            | -55.09             | 11.80                | 13.50                 | H                  |
|                                                       | 7680              | -57.56       | -13           | -44.56            | -63.85            | -60.86             | 8.30                 | 11.60                 | V                  |
|                                                       | 11520             | -53.92       | -13           | -40.92            | -84.4             | -55.44             | 10.48                | 12.00                 | V                  |
|                                                       | 15360             | -51.73       | -13           | -38.73            | -86.22            | -53.43             | 11.80                | 13.50                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_n48A_n66A / NR 20MHz + NR 40MHz / QPSK / ANT8+1 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                               | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n48 Middle                                         | 7212.80           | -57.97       | -40           | -17.97            | -65.83            | -61.27             | 8.30                 | 11.60                 | H                  |
|                                                       | 10819.20          | -56.37       | -40           | -16.37            | -69.50            | -57.89             | 10.48                | 12.00                 | H                  |
|                                                       | 14425.60          | -54.85       | -40           | -14.85            | -69.21            | -56.55             | 11.80                | 13.50                 | H                  |
|                                                       | 7212.80           | -57.24       | -40           | -17.24            | -67.23            | -60.54             | 8.30                 | 11.60                 | V                  |
|                                                       | 10819.20          | -56.69       | -40           | -16.69            | -71.43            | -58.21             | 10.48                | 12.00                 | V                  |
|                                                       | 14425.60          | -53.20       | -40           | -13.20            | -67.12            | -54.90             | 11.80                | 13.50                 | V                  |
| NR n66 Middle                                         | 3490              | -65.07       | -13           | -52.07            | -66.91            | -71.92             | 5.65                 | 12.50                 | H                  |
|                                                       | 5235              | -59.12       | -13           | -46.12            | -63.66            | -64.79             | 7.13                 | 12.80                 | H                  |
|                                                       | 6980              | -59.03       | -13           | -46.03            | -65.77            | -62.43             | 8.40                 | 11.80                 | H                  |
|                                                       | 3490              | -65.16       | -13           | -52.16            | -67.67            | -72.01             | 5.65                 | 12.50                 | V                  |
|                                                       | 5235              | -59.54       | -13           | -46.54            | -64.15            | -65.21             | 7.13                 | 12.80                 | V                  |
|                                                       | 6980              | -58.83       | -13           | -45.83            | -65.94            | -62.23             | 8.40                 | 11.80                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| EN-DC_n66A_n77A / NR 40MHz + NR 100MHz / QPSK / ANT1+3 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                                | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| NR n66<br>Middle                                       | 3451.33              | -63.32          | -13              | -50.32                  | -64.59                  | -70.17                   | 5.65                       | 12.50                       | H                     |
|                                                        | 5177                 | -52.43          | -13              | -39.43                  | -56.79                  | -58.10                   | 7.13                       | 12.80                       | H                     |
|                                                        | 6902.66              | -59.05          | -13              | -46.05                  | -65.65                  | -62.45                   | 8.40                       | 11.80                       | H                     |
|                                                        | 3451.33              | -63.49          | -13              | -50.49                  | -65.7                   | -70.34                   | 5.65                       | 12.50                       | V                     |
|                                                        | 5177                 | -56.08          | -13              | -43.08                  | -60.83                  | -61.75                   | 7.13                       | 12.80                       | V                     |
|                                                        | 6902.66              | -57.94          | -13              | -44.94                  | -65.82                  | -61.34                   | 8.40                       | 11.80                       | V                     |
| NR n77<br>Middle                                       | 7402.6               | -57.07          | -13              | -44.07                  | -65.48                  | -60.37                   | 8.30                       | 11.60                       | H                     |
|                                                        | 11103.9              | -54.69          | -13              | -41.69                  | -68.53                  | -56.21                   | 10.48                      | 12.00                       | H                     |
|                                                        | 14805.2              | -53.56          | -13              | -40.56                  | -69.18                  | -55.26                   | 11.80                      | 13.50                       | H                     |
|                                                        | 7402.6               | -57.14          | -13              | -44.14                  | -65.52                  | -60.44                   | 8.30                       | 11.60                       | V                     |
|                                                        | 11103.9              | -52.81          | -13              | -39.81                  | -68.58                  | -54.33                   | 10.48                      | 12.00                       | V                     |
|                                                        | 14805.2              | -53.66          | -13              | -40.66                  | -69.56                  | -55.36                   | 11.80                      | 13.50                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.