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

ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG240834R	Rev. 01	Initial issue of report	Jun. 06, 2022

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 (5G NR n5, n26)	ERP < 7 Watt		
	§27.50(c)(10)	Effective Radiated Power (5G NR n71)	ERP < 3 Watt		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n2, n25) (5G NR n41)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66, n70)	EIRP < 1Watt		
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77, n78)	EIRP < 1Watt		
	§96.41	Maximum E.I.R.P(5G NR n48)	EIRP < 23 dBm/10MHz		
-	§24.232(d) §27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	1
-	§2.1049 §96.41	Occupied Bandwidth	Reporting Only	PASS	1
-	§2.1051 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n5, n26) (5G NR n2, n25) (5G NR n66, n70) (5G NR n71) (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	1
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n41)	§27.53(m)(4)		
	§96.41	Conducted Band Edge Measurement (5G NR n48)	Part 96.41		
-	§2.1051 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2)	Conducted Spurious Emission (5G NR n5, n26) (5G NR n2, n25) (5G NR n66, n70) (5G NR n71) (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	1
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n41)	< $55+10\log_{10}$(P[Watts])		
	§96.41	Conducted Spurious Emission (5G NR n48)	−40dBm/MHz		
-	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	1
	§24.235 §27.54		Within Authorized Band		

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1053 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2)	Radiated Spurious Emission (5G NR n5, n26) (5G NR n2, n25) (5G NR n66, n70) (5G NR n71) (5G NR n77, n78)	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 13.07 dB at 14499.960 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n41)	< $55+10\log_{10}$(P[Watts])		
	§96.41	Radiated Spurious Emission (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 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz
Rx Frequency	5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n25 : 1930 MHz ~ 1995 MHz 5G NR n26 : 859 MHz ~ 894 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 2110 MHz~ 2200 MHz 5G NR n70 : 1995 MHz ~ 2020 MHz 5G NR n71: 617 MHz ~ 652 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz

Uplink NR CA Bands	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
Uplink NR DC Bands	DC_n2A-n48A, DC_n2A-n77A, DC_n5A-n48A, DC_n5A-n77A, DC_n48A-n66A, DC_n66A-n77A
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM 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.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	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 (Acbel)	**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.

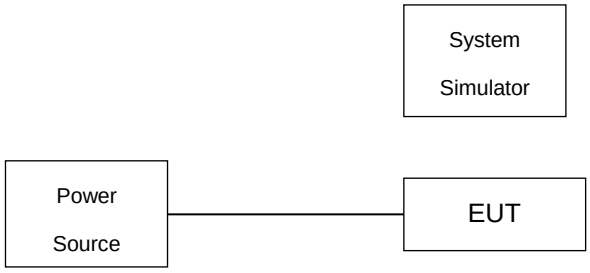
The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

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														v	
	CA_n2A-n66A	Worst Case														v	
	CA_n5A-n66A	Worst Case														v	
	CA_n25A-n41A	Worst Case														v	
	CA_n26A-n66A	Worst Case														v	
	CA_n26A-n70A	Worst Case														v	
	CA_n41A-n66A	Worst Case														v	
	CA_n41A-n71A	Worst Case														v	
	CA_n41A-n77A	Worst Case														v	
	CA_n41A-n78A	Worst Case														v	
	CA_n48A-n70A	Worst Case														v	
	CA_n48A-n77A	Worst Case														v	
	CA_n66A-n71A	Worst Case														v	
	CA_n66A-n77A	Worst Case														v	
	CA_n70A-n71A	Worst Case														v	
	DC_n2A-n48A	Worst Case														v	
	DC_n2A-n77A	Worst Case														v	
	DC_n5A-n48A	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 2. The mark "-" means that this bandwidth is not supported. 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



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

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

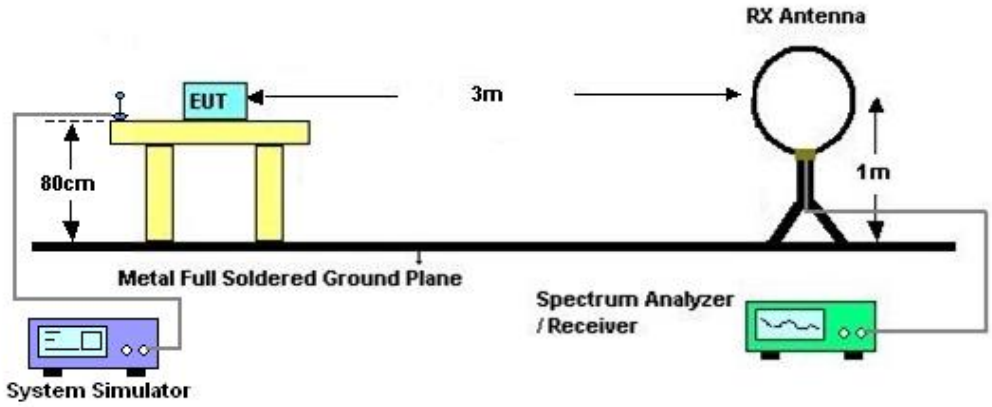
3 Radiated Test Items

3.1 Measuring Instruments

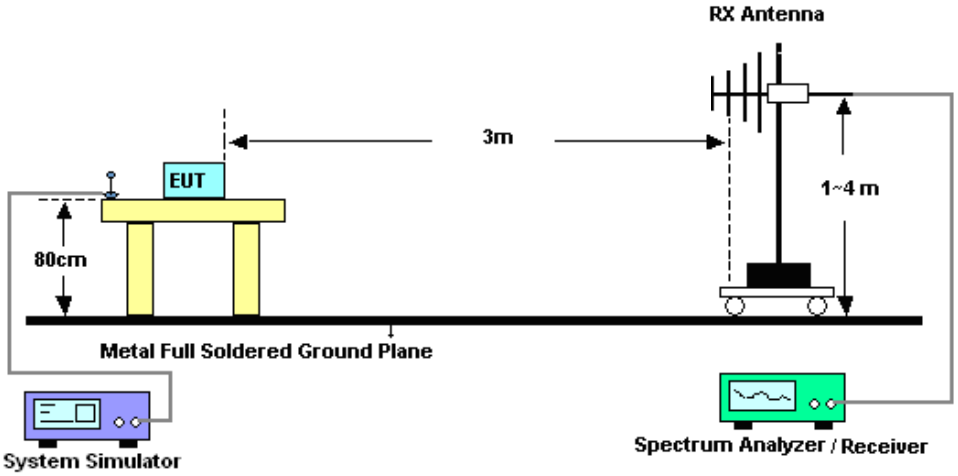
See list of measuring instruments of this test report.

3.2 Test Setup

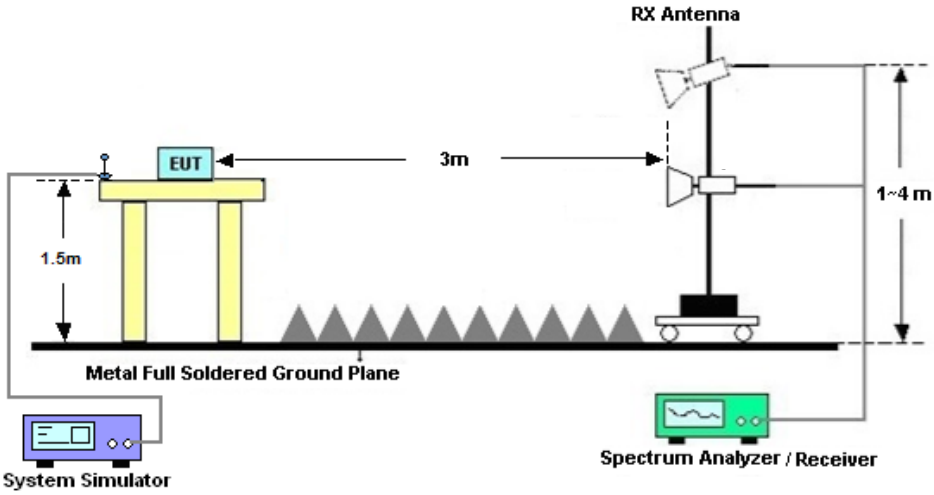
3.2.1 For radiated test below 30MHz



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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For 5G NR n41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)The limit line is derived from 55 + 10log(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-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 22, 2021	May 27, 2022	Oct. 21, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-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℃
		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 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 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 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 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 (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	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 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.