FCC RADIO TEST REPORT

FCC ID	:	VUIMD100
Equipment	:	Module
Brand Name	:	PEGATRON
Model Name	:	MD100-Q62
Applicant	:	PEGATRON CORPORATION 5F., NO. 76, LIGONG ST., BEITOU DISTRICT,TAIPEI CITY,Taiwan
Manufacturer	:	PEGATRON CORPORATION 5F., NO. 76, LIGONG ST., BEITOU DISTRICT,TAIPEI CITY,Taiwan
Standard	:	FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Mar. 16, 2023 and testing was performed from Mar. 28, 2023 to May 05, 2023. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

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History of this test report

Report No.	Version	Description	Issue Date
FG2O0623-01B	01	Initial issue of report	May 24, 2023

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(5)	Effective Radiated Power (n5)	Pass	
	§27.50 (c)(10)	Effective Radiated Power (n12) (n71)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (n2) (n25) (n41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (n66) (n70)		
-	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (n2) (n5) (n12) (n25) (n66) (n70) (n71)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (n41)		
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (n2) (n5) (n12) (n25) (n66) (n70) (n71)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (n41)		
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (n2) (n5) (n12) (n25) (n66) (n70) (n71)	Pass	22.89 dB under the limit at 7494.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (n41)		

Note:
1. The certified module (model: VUIMD100).
2. The conducted power has been verified to be consistent with the original modular certification, therefore, the conducted signal test will be re-used.
3. To perform a spot check on the radiated spurious emission of the host.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sheng Kuo

Report Producer: Michelle Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs LTE/5G NR. **Antenna Type** WWAN: PIFA Antenna	
Installed into Host	Equipment Name: 5G Dongle Brand Name: PEGATRON Model Name: MD100-Q62
Antenna Gain	**<Ant. 0>** 5G NR n2 :-0.08 dBi 5G NR n5 :-6.12 dBi 5G NR n25 :0.11 dBi 5G NR n41 :2.12 dBi 5G NR n66 :-0.41 dBi 5G NR n70 :-0.50 dBi **<Ant. 3>** 5G NR n2 :2.62 dBi 5G NR n5 :-2.35 dBi 5G NR n12 :-2.29 dBi 5G NR n25 :2.62 dBi 5G NR n41 :0.65 dBi 5G NR n66 :2.75 dBi 5G NR n71 :-2.05 dBi

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH03-HY	03CH07-HY
Test Engineer	Luffy Lin	Jesse Wang, Stan Hsieh and Ken Wu
Temperature (℃)	23.5~24.1	22.6~25.8
Relative Humidity (%)	48~52	53.2~63.4

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190

1.4 Applicable Standards

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

- ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 22(H), 24(E), 27
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

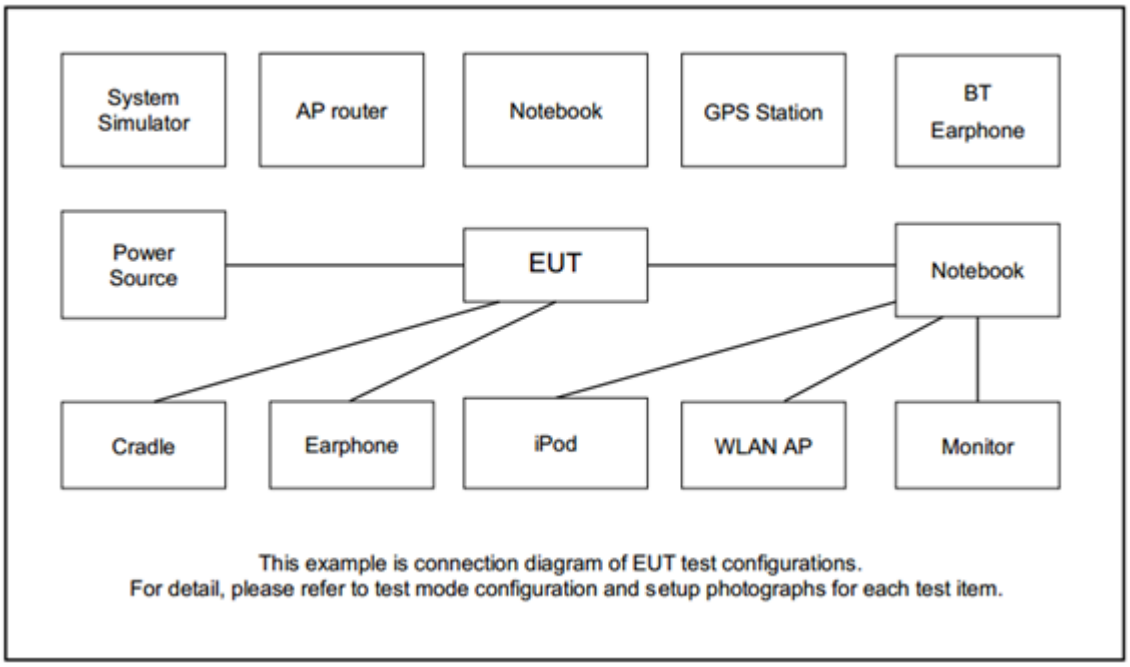
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Test Items	NR Band	Bandwidth (MHz)												Modulation					RB #			Test Channel		
		5	10	15	20	25	30	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n2	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n5	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n25	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n41	-	-	-	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	-	-	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n70	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v

Test Items	NR Band	Bandwidth (MHz)												Modulation					RB #			Test Channel		
		5	10	15	20	25	30	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	n2	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	Max Power					
	n5	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v						
	n12	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v						
	n25	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v						
	n41	-	-	-	v	-	v	v	v	v	v	v	v	v	v	v	v	v						
	n66	v	v	v	v	-	-	v	-	-	-	-	-	v	v	v	v	v						
	n70	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v						
	n71	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v						
Radiated Spurious Emission	n2				v		-	-	-	-	-	-	-	v					v			v	v	v
	n5				v		-	-	-	-	-	-	-	v					v			v	v	v
	n12			v	-		-	-	-	-	-	-	-	v					v			v	v	v
	n25							v	-	-	-	-	-	v					v			v	v	v
	n66							v	-	-	-	-	-	v					v			v	v	v
	n70		v	v	-		-	-	-	-	-	-	-	v					v			v	v	v
	n71				v		-	-	-	-	-	-	-	v					v			v	v	v
Remark	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. 4. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report, and the worst modes of FR1 and LTE for simultaneous transmission were verified and compliant. 5. Test combination are EN-DC 13A-n5A, EN-DC 30A-n2A, EN-DC 48A-n25A, EN-DC 2A-n66A and EN-DC 2A-n41A. 6. 5G NR n2, n25, n41, n66 support Ant. 0, Ant.3, after verified, the worst case is Ant. 0. Therefore, Conducted only performed the Ant. 0 test results in this report. 7. 5G NR n5 support Ant. 0, Ant.3, after verified, the worst case is Ant. 3. Therefore, Conducted only performed the Ant. 3 test results in this report.																							

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	5G Wireless Test Platform	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	Adapter	PHILIPS	DLP6341C	N/A	N/A	N/A

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	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n12 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
15	Channel	141300	141500	141700
	Frequency	706.5	707.5	708.5
10	Channel	140800	141500	142200
	Frequency	704	707.5	711
5	Channel	140300	141500	142700
	Frequency	701.5	707.5	713.5

5G NR n25 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
40	Channel	374000	376500	379000
	Frequency	1870	1882.5	1895
30	Channel	373000	376500	380000
	Frequency	1865	1882.5	1900
25	Channel	372500	376500	380500
	Frequency	1862.5	1882.5	1902.5
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5

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
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
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	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99

5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

5G NR n70 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
15	Channel	-	340500	-
	Frequency	-	1702.5	-
10	Channel	340000	340500	341000
	Frequency	1700	1702.5	1705
5	Channel	339500	340500	341500
	Frequency	1697.5	1702.5	1707.5

5G NR n71 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

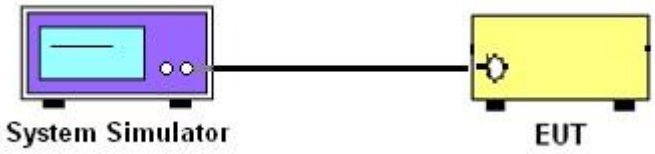
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n12 and n71

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2 and n25 and n41

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66 and n70

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T – L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

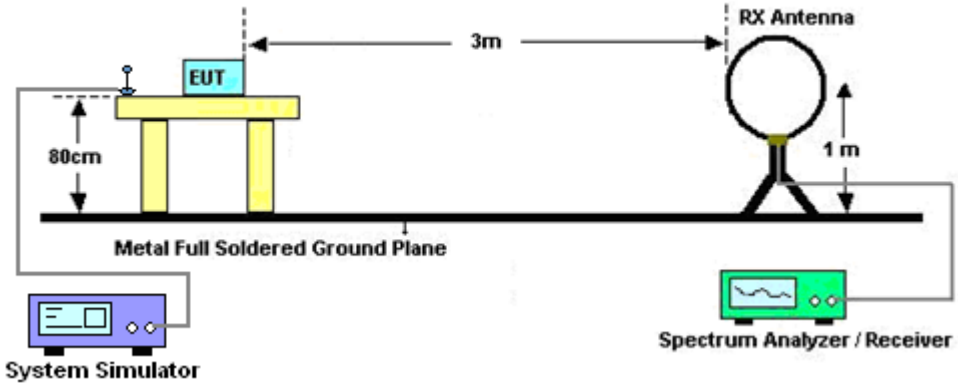
4 Radiated Test Items

4.1 Measuring Instruments

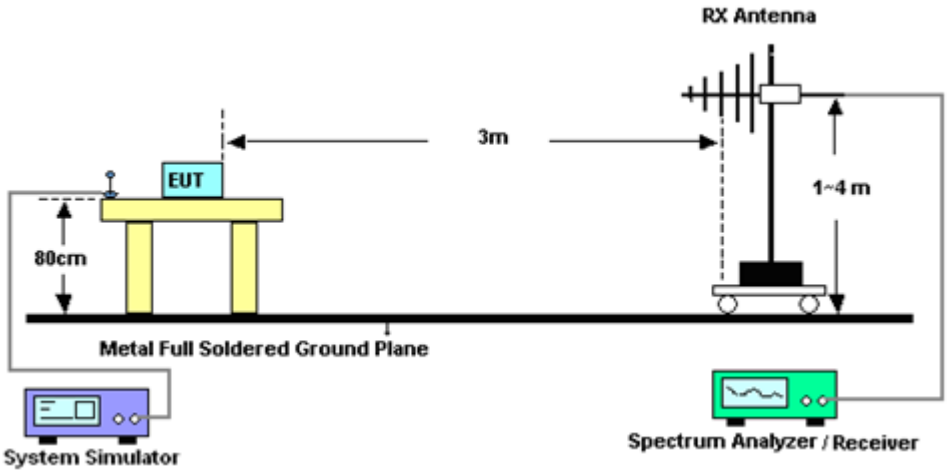
See list of measuring instruments of this test report.

4.1.1 Test Setup

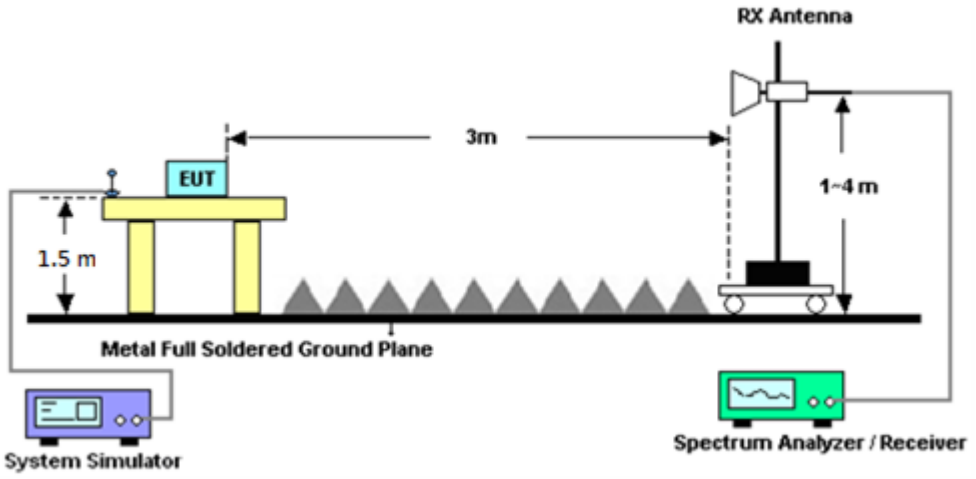
For radiated test below 30MHz



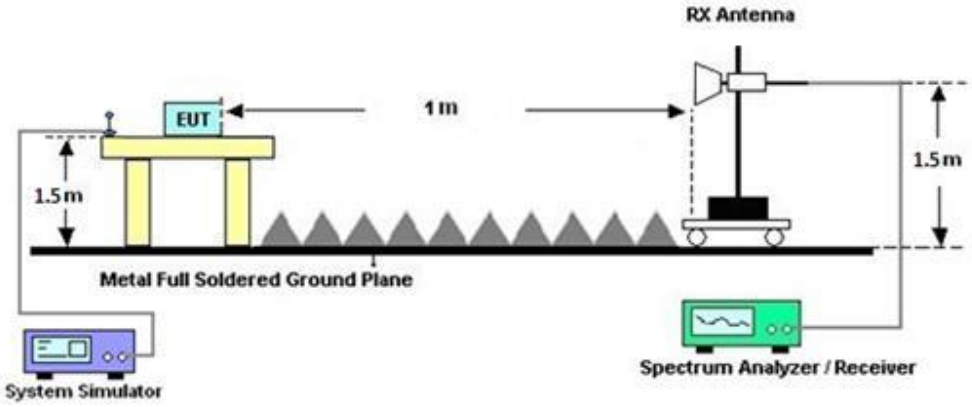
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

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 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.

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

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. 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)

    For 5G NR n41

    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

    EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

    ERP (dBm) = EIRP - 2.15

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	NA	Nov. 17, 2022	Mar. 28, 2023~ Apr.13, 2023	Nov. 16, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116730	LTE	Jun. 15, 2022	Mar. 28, 2023~ Apr.13, 2023	Jun. 14, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262134933	FR1	Jun. 13, 2022	Mar. 28, 2023~ Apr.13, 2023	Jun. 12, 2023	Conducted (TH03-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Apr. 25, 2023~ May 05, 2023	Sep. 19, 2023	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 23, 2023	Apr. 25, 2023~ May 05, 2023	Apr. 22, 2024	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2022	Apr. 25, 2023~ May 05, 2023	Nov. 30, 2023	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 20, 2023	Apr. 25, 2023~ May 05, 2023	Apr. 19, 2024	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 03, 2022	Apr. 25, 2023~ May 05, 2023	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 24, 2023	Apr. 25, 2023~ May 05, 2023	Mar. 23, 2024	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 21, 2022	Apr. 25, 2023~ May 05, 2023	Jul. 20, 2023	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2023	Apr. 25, 2023~ May 05, 2023	Mar. 27, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 22, 2023	Apr. 25, 2023 ~ May 05, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 22, 2023	Apr. 25, 2023~ May 05, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 22, 2023	Apr. 25, 2023~ May 05, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 22, 2023	Apr. 25, 2023~ May 05, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 20, 2023	Apr. 25, 2023~ May 05, 2023	Apr. 19, 2024	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Apr. 25, 2023~ May 05, 2023	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Apr. 25, 2023~ May 05, 2023	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Apr. 25, 2023~ May 05, 2023	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Apr. 25, 2023~ May 05, 2023	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Apr. 25, 2023~ May 05, 2023	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 14, 2023	Apr. 25, 2023~ May 05, 2023	Mar. 13, 2024	Radiation (03CH07-HY)
Horn Antenna	ETS-Lindgren	3117	00143261	1GHz~18GHz	Feb. 24, 2023	Apr. 25, 2023~ May 05, 2023	Feb. 23, 2024	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 24, 2022	Apr. 25, 2023~ May 05, 2023	Nov. 23, 2023	Radiation (03CH07-HY)
Signal Generator	Anritsu	MG3710A	6261943042	2G / 3G / LTE / 5G FR1	May 23, 2022	Apr. 25, 2023~ May 05, 2023	May 22, 2023	Radiation (03CH07-HY)

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.25 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.50 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.08 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and ERP/EIRP

<SISO Mode>

NR n2 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	23.31	23.15	23.07	23.24	0.2109
5	1	23		23.22	23.10	22.69		
5	12	6		23.25	23.12	22.97		
5	1	0		22.69	22.59	22.50		
5	1	24		22.70	22.55	22.14		
5	25	0		22.80	22.62	22.48		
5	1	1	QPSK	23.32	23.16	22.71		
5	1	23		23.25	23.03	21.65		
5	12	6		23.29	23.07	21.97		
5	1	0		22.27	22.11	21.63		
5	1	24		22.15	22.09	20.55		
5	25	0		22.28	22.11	21.06		
5	1	1	16-QAM	22.21	22.12	21.71	22.13	0.1633
5	1	1	64-QAM	20.94	20.82	20.37		
5	1	1	256-QAM	18.25	18.15	18.01		
Limit	EIRP < 2W			Result			Pass	

NR n2 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.35	23.12	23.01	23.30	0.2138
10	1	50		23.30	22.95	22.54		
10	25	12		23.34	23.10	23.06		
10	1	0		22.89	22.63	22.54		
10	1	51		22.73	22.42	22.11		
10	50	0		22.80	22.61	22.57		
10	1	1	QPSK	23.33	23.18	23.02		
10	1	50		23.18	22.87	21.49		
10	25	12		23.38	23.14	22.78		
10	1	0		22.31	22.19	22.09		
10	1	51		22.23	21.89	20.41		
10	50	0		22.31	22.09	21.99		
10	1	1	16-QAM	22.41	22.10	22.02	22.33	0.1710
10	1	1	64-QAM	21.08	20.84	20.76		
10	1	1	256-QAM	18.34	18.12	18.03		
Limit	EIRP < 2W			Result			Pass	

NR n2 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.46	23.21	23.12	23.39	0.2183
15	1	77		23.28	23.23	22.44		
15	36	18		23.35	23.16	23.15		
15	1	0		22.46	22.67	22.61		
15	1	78		22.24	22.68	21.86		
15	75	0		22.43	22.71	22.66		
15	1	1	QPSK	23.47	23.22	23.05		
15	1	77		23.22	22.31	21.42		
15	36	18		23.41	23.22	23.21		
15	1	0		22.32	22.21	22.04		
15	1	78		22.14	21.36	20.41		
15	75	0		22.42	22.15	22.04		
15	1	1	16-QAM	22.43	22.18	22.07	22.35	0.1718
15	1	1	64-QAM	21.09	20.84	20.81		
15	1	1	256-QAM	18.38	18.24	18.09		
Limit	EIRP < 2W			Result			Pass	

NR n2 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.35	23.10	23.20	23.36	0.2168
20	1	104		23.21	23.08	22.41		
20	50	25		23.35	23.19	23.16		
20	1	0		22.91	22.55	22.71		
20	1	105		22.68	22.57	21.89		
20	100	0		22.82	22.58	22.65		
20	1	1	QPSK	23.44	23.22	22.52		
20	1	104		23.19	22.47	21.59		
20	50	25		23.37	23.18	23.11		
20	1	0		22.39	22.21	21.53		
20	1	105		22.19	21.16	20.54		
20	100	0		22.35	22.25	22.07		
20	1	1	16-QAM	22.37	22.14	21.54	22.29	0.1694
20	1	1	64-QAM	21.11	20.91	20.17		
20	1	1	256-QAM	18.41	18.18	18.17		
Limit	EIRP < 2W			Result			Pass	

NR n5 Maximum Average Power [dBm] (GT - LC = -2.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	23.19	23.21	23.26	18.79	0.0757
5	1	23		23.18	23.17	23.24		
5	12	6		23.21	23.23	23.15		
5	1	0		22.67	22.79	22.72		
5	1	24		22.71	22.66	22.69		
5	25	0		22.69	22.71	22.73		
5	1	1	QPSK	23.14	23.24	23.27		
5	1	23		23.29	23.26	23.21		
5	12	6		23.24	23.27	23.16		
5	1	0		22.15	22.29	22.25		
5	1	24		22.25	22.21	22.30		
5	25	0		22.21	22.24	22.21		
5	1	1	16-QAM	22.32	22.26	22.16	18.39	0.069
5	1	1	64-QAM	20.90	20.93	22.89		
5	1	1	256-QAM	18.28	18.26	18.21		
Limit	ERP < 7W			Result			Pass	

NR n5 Maximum Average Power [dBm] (GT - LC = -2.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	23.25	23.11	23.19	18.76	0.0752
10	1	50		23.12	23.20	23.11		
10	25	12		23.19	23.26	23.24		
10	1	0		22.65	22.62	22.62		
10	1	51		22.60	22.65	22.54		
10	50	0		22.65	22.76	22.65		
10	1	1	QPSK	23.06	23.21	23.19		
10	1	50		23.12	23.24	23.12		
10	25	12		23.25	23.25	23.21		
10	1	0		22.13	22.19	22.21		
10	1	51		22.13	22.12	22.16		
10	50	0		22.17	22.25	22.17		
10	1	1	16-QAM	22.15	22.14	22.13	17.65	0.0582
10	1	1	64-QAM	20.76	20.81	20.83		
10	1	1	256-QAM	18.09	18.17	18.15		
Limit	ERP < 7W			Result			Pass	

NR n5 Maximum Average Power [dBm] (GT - LC = -2.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
15	1	1	PI/2 BPSK	23.25	23.31	23.25	18.85	0.0767
15	1	77		23.19	23.21	23.17		
15	36	18		23.34	23.35	23.24		
15	1	0		22.63	22.85	22.75		
15	1	78		22.64	22.65	22.66		
15	75	0		22.84	22.81	22.75		
15	1	1	QPSK	23.30	23.34	23.24		
15	1	77		23.23	23.21	23.32		
15	36	18		23.31	23.34	23.31		
15	1	0		23.29	22.35	22.25		
15	1	78		22.15	22.19	22.11		
15	75	0		22.28	22.32	22.25		
15	1	1	16-QAM	22.26	22.32	22.23	17.82	0.0605
15	1	1	64-QAM	20.84	21.02	20.97		
15	1	1	256-QAM	18.29	18.42	18.35		
Limit	ERP < 7W			Result			Pass	

NR n5 Maximum Average Power [dBm] (GT - LC = -2.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
20	1	1	PI/2 BPSK	23.24	23.27	23.32	18.87	0.0771
20	1	104		23.14	23.19	23.11		
20	50	25		23.33	23.36	23.37		
20	1	0		22.68	22.74	22.77		
20	1	105		22.59	22.66	22.56		
20	100	0		22.78	22.87	22.86		
20	1	1	QPSK	23.24	23.29	23.31		
20	1	104		23.16	23.33	23.16		
20	50	25		23.28	23.35	23.32		
20	1	0		22.23	22.18	22.31		
20	1	105		22.18	22.27	22.17		
20	100	0		22.27	22.31	22.32		
20	1	1	16-QAM	22.17	22.24	22.28	17.78	0.0600
20	1	1	64-QAM	20.78	20.90	20.96		
20	1	1	256-QAM	18.18	18.35	18.36		
Limit	ERP < 7W			Result			Pass	

NR n12 Maximum Average Power [dBm] (GT - LC = -2.29 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	23.57	23.57	23.38	19.24	0.0839
5	1	23		23.54	23.54	23.26		
5	12	6		23.52	23.51	23.35		
5	1	0		22.95	23.04	22.84		
5	1	24		22.98	23.02	22.83		
5	25	0		23.04	23.02	22.87		
5	1	1	QPSK	23.68	23.55	23.34		
5	1	23		23.48	23.52	23.47		
5	12	6		23.55	23.51	23.38		
5	1	0		22.57	22.59	22.39		
5	1	24		22.52	22.53	22.42		
5	25	0		22.50	22.49	22.39		
5	1	1	16-QAM	22.51	22.56	22.39	18.12	0.0649
5	1	1	64-QAM	21.24	21.24	21.07		
5	1	1	256-QAM	18.56	18.54	18.44		
Limit	ERP < 3W			Result			Pass	

NR n12 Maximum Average Power [dBm] (GT - LC = -2.29 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	23.62	23.54	23.59	19.18	0.0828
10	1	50		23.42	23.35	23.35		
10	25	12		23.45	23.52	23.46		
10	1	0		23.05	23.08	22.99		
10	1	51		22.95	22.98	22.89		
10	50	0		23.02	23.04	23.02		
10	1	1	QPSK	23.60	23.58	23.49		
10	1	50		23.44	23.35	23.35		
10	25	12		23.52	23.45	23.47		
10	1	0		22.56	22.54	22.35		
10	1	51		22.43	22.36	22.30		
10	50	0		22.47	22.48	22.47		
10	1	1	16-QAM	22.52	22.54	22.45	18.10	0.0646
10	1	1	64-QAM	21.33	21.26	21.17		
10	1	1	256-QAM	18.52	18.54	18.45		
Limit	ERP < 3W			Result			Pass	

NR n12 Maximum Average Power [dBm] (GT - LC = -2.29 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
15	1	1	PI/2 BPSK	23.76	23.75	23.75	19.32	0.0855
15	1	77		23.43	23.45	23.40		
15	36	18		23.63	23.64	23.65		
15	1	0		23.24	23.22	23.18		
15	1	78		22.90	22.86	22.90		
15	75	0		23.14	23.12	23.10		
15	1	1	QPSK	23.75	23.72	23.75		
15	1	77		23.48	23.45	23.40		
15	36	18		23.65	23.62	23.58		
15	1	0		22.77	22.72	22.79		
15	1	78		22.48	22.47	22.26		
15	75	0		22.65	22.66	22.61		
15	1	1	16-QAM	22.66	22.69	22.64	18.25	0.0668
15	1	1	64-QAM	21.44	21.40	21.42		
15	1	1	256-QAM	18.80	18.82	18.80		
Limit	ERP < 3W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 0.11 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	23.35	23.15	22.96	23.46	0.2218
5	1	23		23.23	23.17	22.83		
5	12	6		23.24	23.13	23.05		
5	1	0		22.82	22.65	22.46		
5	1	24		22.86	22.62	22.38		
5	25	0		22.77	22.64	22.48		
5	1	1	QPSK	23.31	23.19	22.54		
5	1	23		23.27	23.16	22.97		
5	12	6		23.33	23.15	22.76		
5	1	0		22.32	22.15	21.48		
5	1	24		22.31	22.12	21.90		
5	25	0		22.24	22.07	22.01		
5	1	1	16-QAM	22.37	22.21	21.50	22.48	0.1770
5	1	1	64-QAM	21.03	20.82	20.14		
5	1	1	256-QAM	18.36	18.10	18.02		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 0.11 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.34	23.09	23.05	23.53	0.2254
10	1	50		23.26	23.02	23.06		
10	25	12		23.36	23.16	23.03		
10	1	0		22.82	22.65	22.46		
10	1	51		22.69	22.49	23.04		
10	50	0		22.84	22.64	22.55		
10	1	1	QPSK	23.37	23.13	22.99		
10	1	50		23.31	22.98	22.96		
10	25	12		23.42	23.09	22.68		
10	1	0		22.35	22.08	22.05		
10	1	51		22.23	22.01	22.98		
10	50	0		22.35	22.11	21.95		
10	1	1	16-QAM	22.39	22.12	21.96	22.50	0.1778
10	1	1	64-QAM	21.06	20.70	20.63		
10	1	1	256-QAM	18.35	18.06	17.95		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 0.11 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.52	23.27	23.18	23.63	0.2307
15	1	77		23.17	23.26	23.14		
15	36	18		23.38	23.24	23.23		
15	1	0		22.92	22.81	22.65		
15	1	78		22.71	22.79	22.62		
15	75	0		22.79	22.78	22.76		
15	1	1	QPSK	23.45	23.29	23.28		
15	1	77		23.37	23.28	23.07		
15	36	18		23.42	23.24	23.27		
15	1	0		22.52	22.28	22.26		
15	1	78		22.29	22.28	22.08		
15	75	0		22.35	22.24	22.24		
15	1	1	16-QAM	22.47	22.35	22.17	22.58	0.1811
15	1	1	64-QAM	21.24	20.97	20.84		
15	1	1	256-QAM	18.42	18.26	18.15		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 0.11 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.34	23.12	23.15	23.45	0.2213
20	1	104		23.25	23.19	23.07		
20	50	25		23.32	23.27	23.31		
20	1	0		22.35	22.68	22.64		
20	1	105		22.24	22.72	22.59		
20	100	0		22.76	22.68	22.76		
20	1	1	QPSK	23.30	23.24	23.17		
20	1	104		23.22	23.27	23.05		
20	50	25		23.30	23.18	23.24		
20	1	0		22.31	22.24	22.19		
20	1	105		22.19	22.10	22.15		
20	100	0		22.28	22.26	22.28		
20	1	1	16-QAM	22.38	22.27	22.27	22.49	0.1774
20	1	1	64-QAM	21.05	20.82	20.94		
20	1	1	256-QAM	18.35	18.19	18.26		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 0.11 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
25	1	1	PI/2 BPSK	23.32	23.31	23.34	23.53	0.2254
25	1	131		23.25	23.29	23.10		
25	64	32		23.39	23.41	23.25		
25	1	0		22.85	22.81	22.79		
25	1	132		22.76	22.79	22.63		
25	128	0		22.83	22.85	22.66		
25	1	1	QPSK	23.33	23.41	23.28		
25	1	131		23.42	23.36	22.43		
25	64	32		23.38	23.37	23.24		
25	1	0		22.45	22.42	22.12		
25	1	132		22.35	22.35	21.37		
25	128	0		22.35	22.41	22.16		
25	1	1	16-QAM	22.44	22.25	22.26	22.55	0.1799
25	1	1	64-QAM	21.14	21.08	20.98		
25	1	1	256-QAM	18.42	18.45	18.32		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 0.11 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	23.57	23.18	23.24	23.68	0.2333
30	1	158		23.34	23.21	23.09		
30	80	40		23.42	23.38	23.37		
30	1	0		23.07	22.67	22.77		
30	1	159		22.80	22.69	22.73		
30	160	0		22.89	22.82	22.86		
30	1	1	QPSK	23.52	23.32	22.88		
30	1	158		23.34	23.31	22.07		
30	80	40		23.45	23.37	23.32		
30	1	0		22.63	22.37	21.78		
30	1	159		22.35	22.19	21.12		
30	160	0		22.41	22.38	21.93		
30	1	1	16-QAM	22.52	22.26	21.84	22.63	0.1832
30	1	1	64-QAM	21.25	21.02	20.42		
30	1	1	256-QAM	18.62	18.35	18.33		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 0.11 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	23.52	23.46	23.45	23.69	0.2339
40	1	214		23.28	23.18	23.16		
40	108	54		23.35	23.31	23.36		
40	1	0		22.90	22.92	22.90		
40	1	215		22.78	22.75	22.65		
40	216	0		22.82	22.78	22.89		
40	1	1	QPSK	23.58	23.45	23.40		
40	1	214		22.95	23.21	22.49		
40	108	54		23.42	23.35	23.37		
40	1	0		22.41	22.46	22.32		
40	1	215		21.83	22.16	21.42		
40	216	0		22.40	22.41	22.34		
40	1	1	16-QAM	22.53	22.21	22.37	22.64	0.1837
40	1	1	64-QAM	21.19	21.14	21.09		
40	1	1	256-QAM	18.52	18.56	18.48		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	25.72	25.97	25.98	28.17	0.6561
20	1	49		25.73	25.98	25.83		
20	25	12		25.73	26.02	25.97		
20	1	0		22.18	22.54	22.43		
20	1	50		22.21	22.41	22.54		
20	50	0		24.76	25.04	24.95		
20	1	1	QPSK	25.65	25.93	25.87		
20	1	49		25.73	25.94	25.91		
20	25	12		25.73	26.05	25.94		
20	1	0		22.15	22.45	22.26		
20	1	50		22.14	22.46	22.43		
20	50	0		24.25	24.51	24.54		
20	1	1	16-QAM	24.45	24.78	24.75	26.90	0.4898
20	1	1	64-QAM	23.14	23.45	23.36		
20	1	1	256-QAM	21.16	21.54	21.45		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	25.67	25.95	25.93	28.28	0.673
30	1	76		25.95	26.08	26.16		
30	36	18		25.75	25.84	26.08		
30	1	0		22.15	22.42	22.54		
30	1	77		22.32	22.68	22.64		
30	75	0		25.26	25.54	25.65		
30	1	1	QPSK	25.58	25.87	25.84		
30	1	76		25.85	26.05	26.12		
30	36	18		25.78	25.89	26.07		
30	1	0		22.13	22.42	22.38		
30	1	77		22.31	22.63	22.56		
30	75	0		24.71	25.04	25.02		
30	1	1	16-QAM	24.52	24.81	24.91	27.03	0.5047
30	1	1	64-QAM	23.24	23.37	23.45		
30	1	1	256-QAM	21.25	21.44	21.45		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	25.69	25.97	26.05	28.27	0.6714
40	1	104		25.82	26.10	26.10		
40	50	25		25.68	26.02	25.95		
40	1	0		22.25	22.35	22.54		
40	1	105		22.23	22.66	22.58		
40	100	0		25.26	25.53	25.41		
40	1	1	QPSK	25.75	25.99	26.08		
40	1	104		25.74	26.15	26.09		
40	50	25		25.72	25.99	25.95		
40	1	0		22.09	22.49	22.48		
40	1	105		22.25	22.61	22.55		
40	100	0		24.74	25.06	25.04		
40	1	1	16-QAM	24.57	24.81	24.91	27.03	0.5047
40	1	1	64-QAM	23.25	23.47	23.48		
40	1	1	256-QAM	21.32	21.56	21.62		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	25.68	25.87	26.08	28.20	0.6607
50	1	131		25.81	25.97	26.04		
50	64	32		25.74	26.06	25.95		
50	1	0		22.16	22.36	22.45		
50	1	132		22.35	22.64	22.54		
50	128	0		25.25	25.54	25.45		
50	1	1	QPSK	25.67	25.86	25.87		
50	1	131		25.86	25.95	26.07		
50	64	32		25.75	26.02	25.98		
50	1	0		22.14	22.41	22.45		
50	1	132		22.35	22.54	22.43		
50	128	0		24.77	25.05	25.02		
50	1	1	16-QAM	24.60	24.73	24.87	26.99	0.5000
50	1	1	64-QAM	23.10	23.42	23.45		
50	1	1	256-QAM	21.18	21.46	21.52		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
60	1	1	PI/2 BPSK	25.65	25.79	25.82	28.14	0.6516
60	1	160		25.75	25.95	25.86		
60	81	40		25.72	26.02	25.81		
60	1	0		22.03	22.32	22.36		
60	1	161		22.26	22.39	22.35		
60	162	0		25.24	25.44	25.32		
60	1	1	QPSK	25.54	25.85	25.84		
60	1	160		25.75	25.86	25.88		
60	81	40		25.76	25.93	25.79		
60	1	0		22.03	22.29	22.39		
60	1	161		22.27	22.36	22.27		
60	162	0		24.72	24.98	24.87		
60	1	1	16-QAM	24.34	24.65	24.73	26.85	0.4842
60	1	1	64-QAM	23.02	23.35	23.46		
60	1	1	256-QAM	21.06	21.36	21.45		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
70	1	1	PI/2 BPSK	25.45	25.69	25.84	27.96	0.6252
70	1	187		25.59	25.75	25.59		
70	90	45		25.63	25.78	25.69		
70	1	0		21.98	22.14	22.32		
70	1	188		22.12	22.35	22.12		
70	180	0		25.12	25.35	25.28		
70	1	1	QPSK	25.42	25.63	25.78		
70	1	187		25.62	25.69	25.54		
70	90	45		25.63	25.79	25.67		
70	1	0		21.92	22.16	22.35		
70	1	188		22.06	22.23	22.09		
70	180	0		24.64	24.81	24.76		
70	1	1	16-QAM	24.35	24.54	24.64	26.76	0.4742
70	1	1	64-QAM	22.92	23.25	23.32		
70	1	1	256-QAM	20.95	21.23	21.35		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
80	1	1	PI/2 BPSK	25.47	25.62	25.76	28.10	0.6457
80	1	215		25.63	25.98	25.71		
80	108	54		25.62	25.86	25.83		
80	1	0		21.95	22.11	22.28		
80	1	216		22.12	22.32	22.21		
80	216	0		25.12	25.32	25.26		
80	1	1	QPSK	25.47	25.59	25.87		
80	1	215		25.60	25.77	25.59		
80	108	54		25.59	25.83	25.73		
80	1	0		21.93	22.11	22.25		
80	1	216		22.13	22.35	22.13		
80	216	0		24.63	24.83	24.78		
80	1	1	16-QAM	24.22	24.45	24.64	26.76	0.4742
80	1	1	64-QAM	22.95	23.09	23.25		
80	1	1	256-QAM	21.04	21.17	21.36		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
90	1	1	PI/2 BPSK	25.38	25.67	25.77	28.01	0.6324
90	1	243		25.81	25.79	25.71		
90	120	60		25.68	25.89	25.86		
90	1	0		21.89	22.06	22.29		
90	1	244		22.29	22.28	22.25		
90	243	0		25.18	25.24	25.35		
90	1	1	QPSK	25.35	25.61	25.72		
90	1	243		25.82	25.75	25.72		
90	120	60		25.57	25.88	25.86		
90	1	0		21.90	22.05	22.26		
90	1	244		22.32	22.35	22.17		
90	243	0		24.69	24.75	24.83		
90	1	1	16-QAM	24.23	24.53	24.57	26.69	0.4667
90	1	1	64-QAM	22.89	23.17	23.25		
90	1	1	256-QAM	20.86	21.23	21.31		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1	PI/2 BPSK	25.42	25.54	25.85	27.98	0.6281
100	1	271		25.73	25.82	25.72		
100	135	67		25.51	25.81	25.83		
100	1	0		21.92	22.04	22.32		
100	1	272		22.35	22.35	22.23		
100	270	0		24.66	24.73	24.87		
100	1	1	QPSK	25.39	25.58	25.79		
100	1	271		25.68	25.76	25.69		
100	135	67		25.54	25.78	25.86		
100	1	0		21.95	22.02	22.21		
100	1	272		22.35	22.35	22.23		
100	270	0		24.16	24.23	24.39		
100	1	1	16-QAM	24.21	24.58	24.67	26.79	0.4775
100	1	1	64-QAM	22.90	23.02	23.35		
100	1	1	256-QAM	20.95	21.15	21.40		
Limit	EIRP < 2W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	22.96	23.12	23.17	22.81	0.1910
5	1	23		22.98	23.05	23.22		
5	12	6		22.99	23.09	23.18		
5	1	0		22.43	22.54	22.66		
5	1	24		22.49	22.52	22.73		
5	25	0		22.54	22.61	22.74		
5	1	1	QPSK	23.02	23.05	23.21		
5	1	23		23.05	23.07	23.21		
5	12	6		22.97	23.05	23.20		
5	1	0		21.94	21.99	22.21		
5	1	24		21.98	21.93	22.17		
5	25	0		21.91	22.05	22.16		
5	1	1	16-QAM	21.96	22.06	22.10	21.69	0.1476
5	1	1	64-QAM	20.54	20.75	20.92		
5	1	1	256-QAM	17.92	18.02	18.11		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.09	23.14	23.18	22.86	0.1932
10	1	50		23.11	23.10	23.24		
10	25	12		23.12	23.09	23.21		
10	1	0		22.54	22.57	22.72		
10	1	51		22.60	22.58	22.75		
10	50	0		22.64	22.62	22.72		
10	1	1	QPSK	23.14	23.24	23.05		
10	1	50		23.09	23.25	23.22		
10	25	12		23.10	23.12	23.27		
10	1	0		22.11	22.09	22.18		
10	1	51		22.08	22.16	22.21		
10	50	0		22.07	22.09	22.24		
10	1	1	16-QAM	22.09	22.12	22.12	21.71	0.1483
10	1	1	64-QAM	20.66	20.75	20.75		
10	1	1	256-QAM	18.05	18.07	18.24		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.17	23.20	23.16	22.85	0.1928
15	1	77		23.20	23.12	23.26		
15	36	18		23.20	23.18	23.22		
15	1	0		22.64	22.59	22.58		
15	1	78		22.68	22.64	22.66		
15	75	0		22.65	22.70	22.65		
15	1	1	QPSK	23.20	23.18	22.26		
15	1	77		23.16	23.24	23.25		
15	36	18		23.16	23.16	23.01		
15	1	0		22.13	22.16	21.09		
15	1	78		21.99	22.18	22.28		
15	75	0		22.13	22.14	22.15		
15	1	1	16-QAM	22.15	22.13	21.08	21.74	0.1493
15	1	1	64-QAM	20.81	20.86	19.38		
15	1	1	256-QAM	18.04	18.13	17.65		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.14	23.27	23.13	22.86	0.1932
20	1	104		23.16	23.07	23.14		
20	50	25		23.17	23.25	23.22		
20	1	0		22.65	22.22	22.28		
20	1	105		22.65	22.02	22.69		
20	100	0		22.74	22.75	22.78		
20	1	1	QPSK	23.15	23.24	23.26		
20	1	104		23.26	22.97	23.21		
20	50	25		22.75	23.24	22.64		
20	1	0		22.16	22.21	20.86		
20	1	105		21.89	22.02	22.32		
20	100	0		21.95	22.24	21.82		
20	1	1	16-QAM	22.12	22.23	22.17	21.82	0.1521
20	1	1	64-QAM	20.76	20.99	20.89		
20	1	1	256-QAM	18.08	18.25	18.17		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	23.24	23.21	23.10	22.86	0.1932
30	1	158		23.14	23.17	23.16		
30	80	40		23.21	23.19	23.25		
30	1	0		22.78	22.69	22.65		
30	1	159		22.65	22.71	22.75		
30	160	0		22.75	22.78	22.84		
30	1	1	QPSK	23.26	23.03	23.24		
30	1	158		23.18	22.25	23.27		
30	80	40		22.56	23.26	22.56		
30	1	0		22.35	22.06	22.17		
30	1	159		22.13	21.20	22.32		
30	160	0		21.79	22.17	21.92		
30	1	1	16-QAM	22.32	21.96	22.12	21.91	0.1552
30	1	1	64-QAM	20.87	20.64	20.87		
30	1	1	256-QAM	18.32	18.18	18.17		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	23.17	23.26	23.04	22.87	0.1936
40	1	214		23.10	22.88	23.14		
40	108	54		23.14	23.21	23.21		
40	1	0		22.70	22.50	22.55		
40	1	215		22.64	22.74	22.57		
40	216	0		22.68	22.76	22.75		
40	1	1	QPSK	23.28	22.54	23.12		
40	1	214		23.11	22.02	23.18		
40	108	54		22.89	23.22	22.78		
40	1	0		22.26	21.63	22.12		
40	1	215		22.09	21.09	22.25		
40	216	0		22.19	22.23	22.25		
40	1	1	16-QAM	22.16	21.49	22.12	21.75	0.1496
40	1	1	64-QAM	20.95	20.16	20.87		
40	1	1	256-QAM	18.24	17.88	18.02		
Limit	EIRP < 1W			Result			Pass	

NR n70 Maximum Average Power [dBm] (GT - LC = -0.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	23.02	22.93	22.94	22.56	0.1803
5	1	23		22.97	22.91	22.99		
5	12	6		22.99	22.85	22.90		
5	1	0		22.48	22.45	22.45		
5	1	24		22.49	22.47	22.44		
5	25	0		22.45	22.45	22.50		
5	1	1	QPSK	23.06	22.94	22.98		
5	1	23		23.01	22.94	22.85		
5	12	6		23.02	22.91	22.94		
5	1	0		22.02	21.98	21.98		
5	1	24		22.01	21.90	21.89		
5	25	0		21.95	21.93	21.95		
5	1	1	16-QAM	22.06	21.95	21.97	21.56	0.1432
5	1	1	64-QAM	20.66	20.64	20.59		
5	1	1	256-QAM	17.95	17.89	17.95		
Limit	EIRP < 1W			Result			Pass	

NR n70 Maximum Average Power [dBm] (GT - LC = -0.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	22.94	23.01	22.99	22.52	0.1786
10	1	50		22.95	22.85	22.79		
10	25	12		22.93	22.95	23.02		
10	1	0		22.38	22.37	22.52		
10	1	51		22.42	22.32	22.29		
10	50	0		22.42	22.48	22.48		
10	1	1	QPSK	22.85	22.95	22.96		
10	1	50		22.94	22.85	22.84		
10	25	12		22.98	22.97	22.98		
10	1	0		21.92	21.95	22.02		
10	1	51		21.84	21.85	21.78		
10	50	0		21.87	21.92	21.99		
10	1	1	16-QAM	21.92	21.85	22.02	21.52	0.1419
10	1	1	64-QAM	20.60	20.53	20.68		
10	1	1	256-QAM	17.87	17.85	17.96		
Limit	EIRP < 1W			Result			Pass	

NR n70 Maximum Average Power [dBm] (GT - LC = -0.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	ERP(W)
15	1	1	PI/2 BPSK	-	23.14	-	22.66	0.1845
15	1	77		-	23.02	-		
15	36	18		-	23.08	-		
15	1	0		-	22.63	-		
15	1	78		-	22.45	-		
15	75	0		-	22.62	-		
15	1	1	QPSK	-	23.16	-		
15	1	77		-	23.06	-		
15	36	18		-	23.11	-		
15	1	0		-	22.11	-		
15	1	78		-	21.98	-		
15	75	0		-	22.19	-		
15	1	1	16-QAM	-	22.29	-	21.79	0.1510
15	1	1	64-QAM	-	20.26	-		
15	1	1	256-QAM	-	18.06	-		
Limit	EIRP < 1W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = -2.05 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	23.29	23.11	23.14	19.09	0.0811
5	1	23		23.22	23.13	23.12		
5	12	6		23.26	23.16	23.20		
5	1	0		22.65	22.59	22.59		
5	1	24		22.73	22.54	22.61		
5	25	0		22.74	22.72	22.65		
5	1	1	QPSK	23.26	23.19	23.14		
5	1	23		23.18	23.11	22.95		
5	12	6		23.18	23.20	23.12		
5	1	0		22.16	22.16	22.03		
5	1	24		22.34	22.14	22.13		
5	25	0		22.16	22.17	22.12		
5	1	1	16-QAM	22.10	22.15	22.18	17.98	0.0628
5	1	1	64-QAM	20.75	20.85	20.87		
5	1	1	256-QAM	18.10	18.18	18.15		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = -2.05 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	23.07	23.09	22.86	18.90	0.0776
10	1	50		23.10	22.87	22.84		
10	25	12		23.02	23.02	22.93		
10	1	0		22.02	22.54	22.38		
10	1	51		22.10	22.38	22.35		
10	50	0		22.59	22.54	22.45		
10	1	1	QPSK	22.98	23.06	22.85		
10	1	50		23.07	22.91	22.92		
10	25	12		23.05	22.94	22.99		
10	1	0		22.05	22.07	22.02		
10	1	51		22.12	21.95	21.84		
10	50	0		22.06	22.01	21.95		
10	1	1	16-QAM	21.97	22.07	21.92	17.87	0.0612
10	1	1	64-QAM	20.66	20.73	20.63		
10	1	1	256-QAM	17.98	18.04	17.95		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = -2.05 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
15	1	1	PI/2 BPSK	23.05	23.13	22.92	18.95	0.0785
15	1	77		23.02	23.04	22.97		
15	36	18		23.12	23.06	22.98		
15	1	0		22.47	22.69	22.48		
15	1	78		22.53	22.45	22.41		
15	75	0		22.65	22.57	22.47		
15	1	1	QPSK	23.08	23.12	23.02		
15	1	77		23.06	23.02	22.87		
15	36	18		23.15	23.11	23.01		
15	1	0		22.05	22.18	21.96		
15	1	78		22.04	22.07	21.98		
15	75	0		22.17	22.05	21.97		
15	1	1	16-QAM	22.09	22.16	21.95	17.96	0.0625
15	1	1	64-QAM	20.78	20.87	20.68		
15	1	1	256-QAM	18.05	18.16	18.01		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = -2.05 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
20	1	1	PI/2 BPSK	23.21	23.32	23.20	19.13	0.0818
20	1	104		23.18	23.16	23.14		
20	50	25		23.24	23.27	23.18		
20	1	0		22.68	22.88	22.75		
20	1	105		22.70	22.68	22.62		
20	100	0		22.79	22.84	22.76		
20	1	1	QPSK	23.24	23.33	23.25		
20	1	104		23.13	23.12	23.11		
20	50	25		23.28	23.26	23.27		
20	1	0		22.25	22.39	22.27		
20	1	105		22.16	22.24	22.16		
20	100	0		22.36	22.28	22.26		
20	1	1	16-QAM	22.16	22.38	22.24	18.18	0.0658
20	1	1	64-QAM	20.84	21.04	20.93		
20	1	1	256-QAM	18.16	18.35	18.24		
Limit	ERP < 3W			Result			Pass	

<MIMO Mode>

NR n41 Maximum Average Power [dBm], DG = 2.12 dBi														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	21.24	21.65	21.43	21.45	21.45	21.60	24.36	24.56	24.53	26.68	0.4656
20	1	49		21.21	21.54	21.35	21.43	21.39	21.53	24.33	24.48	24.45		
20	25	12		21.17	21.54	21.35	21.38	21.35	21.38	24.29	24.46	24.38		
20	1	0		19.07	19.52	19.39	19.41	19.42	19.49	22.25	22.48	22.45		
20	1	50		19.14	19.59	19.47	19.35	19.41	19.56	22.26	22.51	22.53		
20	51	0		19.13	19.53	19.37	19.35	19.45	19.44	22.25	22.50	22.42		
20	1	1	16-QAM	20.68	21.14	20.98	21.10	21.08	21.19	23.91	24.12	24.10	26.24	0.4207
20	1	1	64-QAM	19.02	19.42	19.30	19.17	19.19	19.25	22.11	22.32	22.29		
20	1	1	256-QAM	16.16	16.58	16.40	19.34	16.39	16.52	21.05	19.50	19.47		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 2.12 dBi														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	21.32	21.62	21.57	21.52	21.42	21.74	24.43	24.53	24.67	26.98	0.4989
30	1	76		21.51	21.75	21.73	21.82	21.63	21.96	24.68	24.70	24.86		
30	39	19		21.21	21.53	21.52	21.37	21.33	21.48	24.30	24.44	24.51		
30	1	0		19.15	19.53	19.43	19.44	19.40	19.53	22.31	22.48	22.49		
30	1	77		19.44	19.68	19.72	19.54	19.53	19.77	22.50	22.62	22.76		
30	78	0		19.82	20.06	20.08	19.91	19.78	20.03	22.88	22.93	23.07		
30	1	1	16-QAM	20.74	21.02	20.96	21.06	21.10	21.23	23.91	24.07	24.11	26.23	0.4198
30	1	1	64-QAM	19.04	19.39	19.38	19.25	19.15	19.37	22.16	22.28	22.39		
30	1	1	256-QAM	16.26	16.54	16.52	16.52	16.45	16.65	19.40	19.51	19.60		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 2.12 dBi														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	21.29	21.56	21.57	21.52	21.48	21.62	24.42	24.53	24.61	26.85	0.4842
40	1	104		21.48	21.76	21.67	21.50	21.55	21.76	24.50	24.67	24.73		
40	53	26		21.12	21.54	21.33	21.32	21.32	21.43	24.23	24.44	24.39		
40	1	0		19.23	19.45	19.46	19.51	19.47	19.59	22.38	22.47	22.54		
40	1	105		19.32	19.58	19.57	19.52	19.49	19.62	22.43	22.55	22.61		
40	106	0		19.68	20.07	19.90	19.85	19.88	19.94	22.78	22.99	22.93		
40	1	1	16-QAM	20.65	20.99	20.99	21.05	21.08	21.16	23.86	24.05	24.09	26.21	0.4178
40	1	1	64-QAM	19.06	19.36	19.42	19.19	19.30	19.30	22.14	22.34	22.37		
40	1	1	256-QAM	16.29	16.49	16.57	16.62	16.50	16.53	19.47	19.51	19.56		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 2.12 dBi														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	21.19	21.38	21.37	21.42	21.43	21.53	24.32	24.42	24.46	26.73	0.471
50	1	131		21.46	21.57	21.56	21.57	21.48	21.63	24.53	24.54	24.61		
50	67	33		21.26	21.52	21.35	21.37	21.31	21.45	24.33	24.43	24.41		
50	1	0		19.18	19.33	19.41	19.43	19.43	19.44	22.32	22.39	22.44		
50	1	132		19.36	19.50	19.52	19.53	19.45	19.65	22.46	22.49	22.60		
50	133	0		19.84	20.01	19.92	19.91	19.86	19.91	22.89	22.95	22.93		
50	1	1	16-QAM	20.67	20.02	20.96	21.06	19.79	21.05	23.88	22.92	24.02	26.14	0.4111
50	1	1	64-QAM	19.02	19.51	19.25	19.19	19.39	19.24	22.12	22.46	22.26		
50	1	1	256-QAM	16.18	16.48	16.56	16.54	16.34	16.52	19.37	19.42	19.55		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 2.12 dBi															
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	21.03	21.29	21.43	21.41	21.44	21.23	24.23	24.38	24.34	26.60	0.4571
60	1	160		21.16	21.43	21.32	21.36	21.39	21.62	24.27	24.42	24.48		
60	81	40		21.25	21.52	21.31	21.22	21.29	21.34	24.25	24.42	24.34		
60	1	0		19.07	19.30	19.35	19.31	19.36	19.22	22.20	22.34	22.30		
60	1	161		19.23	19.43	19.35	19.35	19.33	19.42	22.30	22.39	22.40		
60	162	0		19.71	20.03	19.87	19.77	19.78	19.82	22.75	22.92	22.86		
60	1	1	16-QAM	20.65	20.92	20.98	21.06	21.07	20.92	23.87	24.01	23.96	26.13	0.4102
60	1	1	64-QAM	18.97	19.29	19.26	19.16	19.13	19.05	22.08	22.22	22.17		
60	1	1	256-QAM	16.21	16.35	16.47	16.40	16.40	16.31	19.32	19.39	19.40		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 2.12 dBi															
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	21.04	21.15	21.35	21.23	21.25	21.02	24.15	24.21	24.20	26.45	0.4416
70	1	187		21.18	21.38	21.15	21.35	21.25	21.27	24.28	24.33	24.22		
70	95	47		21.17	21.30	21.11	21.16	21.12	21.07	24.18	24.22	24.10		
70	1	0		18.97	19.10	19.24	19.19	19.23	19.10	22.09	22.18	22.18		
70	1	188		19.08	19.35	19.07	19.19	19.13	19.26	22.15	22.25	22.18		
70	189	0		19.64	19.81	19.71	19.72	19.67	19.55	22.69	22.75	22.64		
70	1	1	16-QAM	20.62	20.65	20.88	20.92	20.95	20.75	23.78	23.81	23.83	25.95	0.3936
70	1	1	64-QAM	18.85	19.05	19.18	18.98	19.02	18.85	21.93	22.05	22.03		
70	1	1	256-QAM	16.06	16.21	16.34	16.36	16.20	16.12	19.22	19.22	19.24		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 2.12 dBi														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	20.98	21.05	21.25	21.18	21.28	21.20	24.09	24.18	24.24	26.39	0.4355
80	1	215		21.09	21.32	21.16	21.15	21.20	21.34	24.13	24.27	24.26		
80	109	54		21.10	21.29	21.25	21.08	21.13	21.17	24.10	24.22	24.22		
80	1	0		18.94	19.09	19.21	19.12	19.18	19.15	22.04	22.15	22.19		
80	1	216		19.14	19.27	19.18	19.12	19.18	19.32	22.14	22.24	22.26		
80	217	0		19.56	19.77	19.81	19.57	19.58	19.67	22.58	22.69	22.75		
80	1	1	16-QAM	20.48	20.65	20.76	20.87	20.90	20.69	23.69	23.79	23.74	25.91	0.3899
80	1	1	64-QAM	18.81	19.03	19.13	18.97	18.93	18.85	21.90	21.99	22.00		
80	1	1	256-QAM	16.02	16.15	16.37	16.22	16.21	16.11	19.13	19.19	19.25		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 2.12 dBi														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	21.00	21.12	21.42	21.19	21.13	21.21	24.11	24.14	24.33	26.52	0.4487
90	1	243		21.29	21.40	21.28	21.28	21.34	21.49	24.30	24.38	24.40		
90	123	61		21.16	21.34	21.37	21.16	21.12	21.29	24.17	24.24	24.34		
90	1	0		18.98	19.12	19.27	19.15	19.22	19.09	22.08	22.18	22.19		
90	1	244		19.34	19.35	19.25	19.12	19.31	19.36	22.24	22.34	22.32		
90	245	0		19.62	19.78	19.76	19.67	19.70	19.78	22.66	22.75	22.78		
90	1	1	16-QAM	20.42	20.55	20.86	20.81	20.91	20.80	23.63	23.74	23.84	25.96	0.3945
90	1	1	64-QAM	18.82	19.02	19.21	18.98	18.98	18.84	21.91	22.01	22.04		
90	1	1	256-QAM	16.08	16.16	16.30	16.33	16.31	16.12	19.21	19.25	19.22		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 2.12 dBi														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	20.92	21.14	21.27	21.28	21.16	21.12	24.11	24.16	24.21	26.47	0.4436
100	1	271		21.35	21.38	21.17	21.19	21.30	21.46	24.28	24.35	24.33		
100	137	68		21.09	21.35	21.35	21.07	21.10	21.09	24.09	24.24	24.23		
100	1	0		18.90	19.12	19.18	19.18	19.25	19.11	22.05	22.19	22.16		
100	1	272		19.28	19.32	19.22	19.12	19.30	19.39	22.21	22.32	22.32		
100	273	0		19.18	19.32	19.32	19.08	19.19	19.16	22.14	22.27	22.25		
100	1	1	16-QAM	20.54	20.64	20.87	20.80	20.92	20.83	23.68	23.79	23.86	25.98	0.3963
100	1	1	64-QAM	18.84	19.04	19.25	18.93	19.01	18.86	21.90	22.04	22.07		
100	1	1	256-QAM	16.03	16.08	16.32	16.24	16.21	16.08	19.15	19.16	19.21		
Limit	EIRP < 2W			Result									Pass	

Appendix B. Test Results of Radiated Test

<Ant. 0>

5G NR n2

5G NR n2/ 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-47.75	-13	-34.75	-69.92	-54.32	1.67	8.24	H
	5550	-48.16	-13	-35.16	-74.82	-55.23	2.65	9.72	H
	7404	-47.20	-13	-34.20	-75.61	-56.35	2.46	11.61	H
									H
									H
									H
									H
	3702	-46.58	-13	-33.58	-68.68	-53.15	1.67	8.24	V
	5550	-47.95	-13	-34.95	-74.56	-55.02	2.65	9.72	V
	7404	-47.72	-13	-34.72	-76.44	-56.87	2.46	11.61	V
									V
									V
									V
									V
Middle	3744	-49.07	-13	-36.07	-71.28	-55.68	1.68	8.29	H
	5610	-46.09	-13	-33.09	-72.96	-53.15	2.69	9.74	H
	7482	-46.13	-13	-33.13	-74.75	-55.46	2.44	11.76	H
									H
									H
									H
									H
	3744	-47.91	-13	-34.91	-70.1	-54.52	1.68	8.29	V
	5610	-48.88	-13	-35.88	-75.6	-55.94	2.69	9.74	V
	7482	-43.06	-13	-30.06	-71.87	-52.39	2.44	11.76	V
									V
									V
									V
									V

Highest	3780	-48.51	-13	-35.51	-70.65	-55.15	1.69	8.34	H
	5670	-47.16	-13	-34.16	-74.03	-54.21	2.72	9.77	H
	7560	-47.62	-13	-34.62	-76.4	-57.05	2.41	11.84	H
									H
									H
									H
									H
	3780	-45.61	-13	-32.61	-67.84	-52.25	1.69	8.34	V
	5670	-45.89	-13	-32.89	-72.7	-52.94	2.72	9.77	V
	7560	-46.61	-13	-33.61	-75.56	-56.04	2.41	11.84	V
									V
									V
									V
									V

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

5G NR n25

5GNR n25/ 40MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-51.73	-13	-38.73	-73.74	-58.3	1.67	8.24	H
	5550	-47.03	-13	-34.03	-73.35	-54.1	2.65	9.72	H
	7404	-48.05	-13	-35.05	-76.34	-57.2	2.46	11.61	H
									H
									H
									H
									H
	3702	-52.03	-13	-39.03	-73.88	-58.6	1.67	8.24	V
	5550	-47.43	-13	-34.43	-73.7	-54.5	2.65	9.72	V
	7404	-47.75	-13	-34.75	-75.99	-56.9	2.46	11.61	V
									V
									V
									V
									V
Middle	3726	-53.00	-13	-40.00	-74.89	-59.6	1.68	8.27	H
	5592	-45.14	-13	-32.14	-71.65	-52.2	2.68	9.74	H
	7452	-48.84	-13	-35.84	-77.36	-58.1	2.44	11.70	H
									H
									H
									H
									H
	3726	-52.70	-13	-39.70	-74.7	-59.3	1.68	8.27	V
	5592	-46.54	-13	-33.54	-73.11	-53.6	2.68	9.74	V
	7452	-47.34	-13	-34.34	-75.83	-56.6	2.44	11.70	V
									V
									V
									V
									V

Highest	3750	-51.08	-13	-38.08	-72.98	-57.7	1.68	8.30	H
	5628	-47.45	-13	-34.45	-74.13	-54.5	2.70	9.75	H
	7506	-48.02	-13	-35.02	-76.5	-57.4	2.43	11.80	H
	9399	-48.53	-13	-35.53	-81.41	-58.5	2.57	12.54	H
									H
									H
									H
	3750	-51.78	-13	-38.78	-73.81	-58.4	1.68	8.30	V
	5628	-47.65	-13	-34.65	-74.18	-54.7	2.70	9.75	V
	7506	-47.52	-13	-34.52	-76.07	-56.9	2.43	11.80	V
	9399	-43.83	-13	-30.83	-76.99	-53.8	2.57	12.54	V
									V
									V
									V

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

5G NR n66

5G NR n66/ 40MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-49.63	-13	-36.63	-71.14	-55.7	1.58	7.65	H
	5130	-54.81	-13	-41.81	-79.76	-62.1	2.41	9.70	H
	6840	-51.33	-13	-38.33	-79.56	-59.3	2.64	10.61	H
									H
									H
									H
									H
	3420	-49.13	-13	-36.13	-71.67	-55.2	1.58	7.65	V
	5130	-54.81	-13	-41.81	-79.54	-62.1	2.41	9.70	V
	6840	-47.93	-13	-34.93	-76.45	-55.9	2.64	10.61	V
									V
									V
									V
									V
Middle	3450	-48.71	-13	-35.71	-70.88	-54.9	1.59	7.78	H
	5178	-54.84	-13	-41.84	-79.79	-62.1	2.44	9.70	H
	6906	-50.03	-13	-37.03	-78.24	-58.1	2.62	10.69	H
									H
									H
									H
									H
	3450	-52.11	-13	-39.11	-74	-58.3	1.59	7.78	V
	5178	-54.24	-13	-41.24	-79.51	-61.5	2.44	9.70	V
	6906	-46.63	-13	-33.63	-74.38	-54.7	2.62	10.69	V
									V
									V
									V
									V

Highest	3480	-49.02	-13	-36.02	-71.27	-55.33	1.60	7.91	H
	5220	-51.14	-13	-38.14	-76.74	-58.38	2.46	9.70	H
	6966	-47.45	-13	-34.45	-75.61	-55.61	2.60	10.76	H
									H
									H
									H
									H
	3480	-51.81	-13	-38.81	-74.02	-58.12	1.60	7.91	V
	5220	-51.31	-13	-38.31	-76.87	-58.55	2.46	9.70	V
	6960	-44.19	-13	-31.19	-72.34	-52.34	2.60	10.75	V
									V
									V
									V
									V

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

5G NR n70

5G NR n70/ 10MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3390	-49.61	-13	-36.61	-71.48	-55.56	1.57	7.52	H
	5088	-52.72	-13	-39.72	-78.18	-60.03	2.39	9.70	H
	6780	-50.28	-13	-37.28	-78.83	-58.15	2.66	10.54	H
									H
									H
									H
									H
	3390	-50.81	-13	-37.81	-72.69	-56.76	1.57	7.52	V
	5088	-53.02	-13	-40.02	-78.45	-60.33	2.39	9.70	V
	6780	-44.54	-13	-31.54	-72.88	-52.41	2.66	10.54	V
									V
									V
									V
									V
Middle	3396	-49.68	-13	-36.68	-71.5	-55.65	1.57	7.54	H
	5094	-52.94	-13	-39.94	-78.45	-60.25	2.39	9.70	H
	6792	-49.79	-13	-36.79	-78.39	-57.68	2.66	10.55	H
									H
									H
									H
									H
	3396	-51.04	-13	-38.04	-72.96	-57.01	1.57	7.54	V
	5094	-52.11	-13	-39.11	-77.58	-59.42	2.39	9.70	V
	6792	-44.95	-13	-31.95	-73.36	-52.84	2.66	10.55	V
									V
									V
									V
									V

Highest	3402	-50.02	-13	-37.02	-71.87	-56.02	1.57	7.57	H
	5100	-53.24	-13	-40.24	-78.77	-60.55	2.39	9.70	H
	6804	-49.62	-13	-36.62	-78.1	-57.53	2.65	10.56	H
									H
									H
									H
									H
	3402	-51.09	-13	-38.09	-73.03	-57.09	1.57	7.57	V
	5100	-51.71	-13	-38.71	-77.01	-59.02	2.39	9.70	V
	6804	-44.85	-13	-31.85	-73.23	-52.76	2.65	10.56	V
									V
									V
									V
									V

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

5G NR n70/ 15MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3390	-49.47	-13	-36.47	-71.26	-55.42	1.57	7.52	H
	5088	-53.64	-13	-40.64	-79.02	-60.95	2.39	9.70	H
	6780	-49.76	-13	-36.76	-78.21	-57.63	2.66	10.54	H
									H
									H
									H
									H
	3390	-49.76	-13	-36.76	-71.63	-55.71	1.57	7.52	V
	5088	-52.28	-13	-39.28	-77.37	-59.59	2.39	9.70	V
	6780	-45.65	-13	-32.65	-73.89	-53.52	2.66	10.54	V
									V
									V
									V
									V

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

<Ant. 3>

5G NR n5

5G NR n5/ 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-55.74	-13	-42.74	-68.52	-57.5	0.98	4.89	H
	2472	-53.62	-13	-40.62	-71.78	-55.5	1.28	5.32	H
	3296	-57.59	-13	-44.59	-77.71	-61	1.54	7.10	H
									H
									H
									H
									H
	1648	-58.94	-13	-45.94	-72.27	-60.7	0.98	4.89	V
	2472	-56.62	-13	-43.62	-75.18	-58.5	1.28	5.32	V
	3296	-56.59	-13	-43.59	-77.35	-60	1.54	7.10	V
									V
									V
									V
									V
Middle	1656	-56.37	-13	-43.37	-69.34	-58.1	0.98	4.86	H
	2480	-53.99	-13	-40.99	-72.27	-55.9	1.28	5.34	H
	3306	-57.05	-13	-44.05	-77.61	-60.5	1.54	7.15	H
									H
									H
									H
									H
	1656	-58.77	-13	-45.77	-72.16	-60.5	0.98	4.86	V
	2480	-56.19	-13	-43.19	-74.85	-58.1	1.28	5.34	V
	3306	-57.25	-13	-44.25	-77.83	-60.7	1.54	7.15	V
									V
									V
									V
									V

Highest	1656	-57.17	-13	-44.17	-70.34	-58.9	0.98	4.86	H
	2487	-54.68	-13	-41.68	-72.69	-56.6	1.29	5.36	H
	3316	-56.91	-13	-43.91	-77.16	-60.4	1.55	7.19	H
									H
									H
									H
									H
	1656	-59.77	-13	-46.77	-73	-61.5	0.98	4.86	V
	2487	-57.18	-13	-44.18	-75.61	-59.1	1.29	5.36	V
	3316	-56.91	-13	-43.91	-77.43	-60.4	1.55	7.19	V
									V
									V
									V
									V

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

5G NR n12

5G NR n12 / 15MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1398	-57.45	-13	-44.45	-68.37	-59.10	0.87	4.67	H
	2097	-60.22	-13	-47.22	-76.66	-61.10	1.16	4.19	H
	2796	-58.10	-13	-45.10	-76.92	-60.20	1.38	5.64	H
									H
									H
									H
									H
	1398	-58.55	-13	-45.55	-69.98	-60.20	0.87	4.67	V
	2097	-59.92	-13	-46.92	-76.55	-60.80	1.16	4.19	V
	2796	-57.20	-13	-44.20	-76.75	-59.30	1.38	5.64	V
									V
									V
									V
									V
Middle	1400	-57.64	-13	-44.64	-68.97	-59.30	0.87	4.68	H
	2100	-59.82	-13	-46.82	-76.41	-60.70	1.17	4.20	H
	2800	-58.19	-13	-45.19	-76.60	-60.30	1.38	5.64	H
									H
									H
									H
									H
	1400	-58.84	-13	-45.84	-70.74	-60.50	0.87	4.68	V
	2100	-59.52	-13	-46.52	-76.19	-60.40	1.17	4.20	V
	2800	-57.49	-13	-44.49	-76.88	-59.60	1.38	5.64	V
									V
									V
									V
									V

Highest	1402	-57.13	-13	-44.13	-68.28	-58.80	0.87	4.69	H
	2103	-60.01	-13	-47.01	-76.35	-60.90	1.17	4.21	H
	2804	-58.49	-13	-45.49	-77.16	-60.60	1.39	5.64	H
									H
									H
									H
									H
	1402	-58.03	-13	-45.03	-69.55	-59.70	0.87	4.69	V
	2103	-59.61	-13	-46.61	-76.47	-60.50	1.17	4.21	V
	2804	-57.79	-13	-44.79	-77.08	-59.90	1.39	5.64	V
									V
									V
									V
									V

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

5G NR n71

5G NR n71/ 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-51.51	-13	-38.51	-62.69	-52.76	0.84	4.23	H
	1992	-60.41	-13	-47.41	-76.48	-61.05	1.13	3.92	H
	2648	-59.16	-13	-46.16	-77.76	-61.19	1.34	5.52	H
									H
									H
									H
									H
	1328	-50.76	-13	-37.76	-62.3	-52.01	0.84	4.23	V
	1992	-59.91	-13	-46.91	-76.26	-60.55	1.13	3.92	V
	2648	-58.56	-13	-45.56	-77.79	-60.59	1.34	5.52	V
									V
									V
									V
									V
Middle	1344	-51.91	-13	-38.91	-63.06	-53.25	0.84	4.33	H
	2008	-60.24	-13	-47.24	-76.41	-60.88	1.14	3.92	H
	2680	-58.61	-13	-45.61	-77.34	-60.66	1.35	5.54	H
									H
									H
									H
									H
	1344	-55.14	-13	-42.14	-66.69	-56.48	0.84	4.33	V
	2008	-59.87	-13	-46.87	-76.32	-60.51	1.14	3.92	V
	2680	-57.97	-13	-44.97	-77.3	-60.02	1.35	5.54	V
									V
									V
									V
									V

Highest	1360	-54.32	-13	-41.32	-65.69	-55.75	0.85	4.43	H
	2032	-60.31	-13	-47.31	-76.65	-61.01	1.14	4.00	H
	2712	-59.43	-13	-46.43	-78.18	-61.49	1.36	5.57	H
									H
									H
									H
									H
	1360	-53.39	-13	-40.39	-65.09	-54.82	0.85	4.43	V
	2032	-60.03	-13	-47.03	-76.77	-60.73	1.14	4.00	V
	2712	-58.57	-13	-45.57	-77.99	-60.63	1.36	5.57	V
									V
									V
									V
									V

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

<Ant. 3+Ant. 0>

EN-DC 13A-n5A

EN-DC 13A-n5A / 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-53.65	-13	-40.65	-66.8	-55.41	0.98	4.89	H
	2472	-52.13	-13	-39.13	-70.6	-54.01	1.28	5.32	H
	3296	-55.41	-13	-42.41	-75.97	-58.82	1.54	7.10	H
									H
									H
									H
									H
	1648	-58.25	-13	-45.25	-71.86	-60.01	0.98	4.89	V
	2472	-51.75	-13	-38.75	-70.69	-53.63	1.28	5.32	V
	3296	-54.62	-13	-41.62	-75.5	-58.03	1.54	7.10	V
									V
									V
									V
									V
Middle	1656	-55.54	-13	-42.54	-68.78	-57.27	0.98	4.86	H
	2480	-53.76	-13	-40.76	-72.12	-55.67	1.28	5.34	H
	3312	-56.14	-13	-43.14	-76.89	-59.62	1.55	7.17	H
									H
									H
									H
									H
	1656	-59.85	-13	-46.85	-73.72	-61.58	0.98	4.86	V
	2480	-53.11	-13	-40.11	-71.94	-55.02	1.28	5.34	V
	3312	-54.65	-13	-41.65	-75.7	-58.13	1.55	7.17	V
									V
									V
									V
									V
									V

Highest	1656	-54.08	-13	-41.08	-67.41	-55.81	0.98	4.86	H
	2488	-55.12	-13	-42.12	-73.65	-57.05	1.29	5.36	H
	3320	-56.87	-13	-43.87	-77.71	-60.38	1.55	7.21	H
									H
									H
									H
									H
	1656	-58.16	-13	-45.16	-71.81	-59.89	0.98	4.86	V
	2488	-54.84	-13	-41.84	-73.76	-56.77	1.29	5.36	V
	3320	-54.73	-13	-41.73	-75.85	-58.24	1.55	7.21	V
									V
									V
									V
									V

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

<Ant. 0+Ant. 3>

EN-DC 30A-n2A

EN-DC 30A-n2A / 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-56.13	-13	-43.13	-78.26	-62.7	1.67	8.24	H
	5550	-54.53	-13	-41.53	-80.78	-61.6	2.65	9.72	H
	7400	-53.76	-13	-40.76	-81.94	-62.9	2.46	11.60	H
									H
									H
									H
									H
	3700	-56.53	-13	-43.53	-78.44	-63.1	1.67	8.24	V
	5550	-54.73	-13	-41.73	-80.98	-61.8	2.65	9.72	V
	7400	-53.36	-13	-40.36	-81.95	-62.5	2.46	11.60	V
									V
									V
									V
									V
Middle	3740	-56.69	-13	-43.69	-78.44	-63.3	1.68	8.29	H
	5610	-54.04	-13	-41.04	-80.36	-61.1	2.69	9.74	H
	7480	-53.78	-13	-40.78	-81.85	-63.1	2.44	11.76	H
									H
									H
									H
									H
	3740	-56.09	-13	-43.09	-78.28	-62.7	1.68	8.29	V
	5610	-54.34	-13	-41.34	-80.78	-61.4	2.69	9.74	V
	7480	-53.18	-13	-40.18	-81.82	-62.5	2.44	11.76	V
									V
									V
									V
									V

Highest	3780	-56.13	-13	-43.13	-78.28	-62.77	1.69	8.34	H
	5670	-53.38	-13	-40.38	-80.26	-60.43	2.72	9.77	H
	7560	-53.01	-13	-40.01	-81.81	-62.44	2.41	11.84	H
									H
									H
									H
									H
	3780	-56.10	-13	-43.10	-78.29	-62.74	1.69	8.34	V
	5610	-53.80	-13	-40.80	-80.67	-60.86	2.69	9.74	V
	7480	-52.79	-13	-39.79	-81.85	-62.11	2.44	11.76	V
									V
									V
									V
									V

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

EN-DC 48A-n25A

EN-DC 48A-n25A / 40MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-56.53	-13	-43.53	-78.29	-63.1	1.67	8.24	H
	5550	-54.83	-13	-41.83	-81.02	-61.9	2.65	9.72	H
	7400	-53.96	-13	-40.96	-81.98	-63.1	2.46	11.60	H
									H
									H
									H
									H
	3700	-56.73	-13	-43.73	-78.57	-63.3	1.67	8.24	V
	5550	-54.63	-13	-41.63	-81.17	-61.7	2.65	9.72	V
	7400	-53.36	-13	-40.36	-81.89	-62.5	2.46	11.60	V
									V
									V
									V
									V
Middle	3725	-56.20	-13	-43.20	-78.22	-62.8	1.67	8.27	H
	5588	-54.04	-13	-41.04	-80.54	-61.1	2.68	9.74	H
	7450	-53.75	-13	-40.75	-82.07	-63	2.45	11.70	H
									H
									H
									H
									H
	3725	-56.50	-13	-43.50	-78.36	-63.1	1.67	8.27	V
	5588	-54.14	-13	-41.14	-80.53	-61.2	2.68	9.74	V
	7450	-53.15	-13	-40.15	-81.52	-62.4	2.45	11.70	V
									V
									V
									V
									V

Highest	3750	-56.48	-13	-43.48	-78.39	-63.1	1.68	8.30	H
	5625	-53.75	-13	-40.75	-80.51	-60.8	2.70	9.75	H
	7500	-53.03	-13	-40.03	-81.5	-62.4	2.43	11.80	H
									H
									H
									H
									H
	3750	-56.58	-13	-43.58	-78.55	-63.2	1.68	8.30	V
	5625	-53.65	-13	-40.65	-80.33	-60.7	2.70	9.75	V
	7500	-53.33	-13	-40.33	-81.78	-62.7	2.43	11.80	V
									V
									V
									V
									V

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

EN-DC 2A-n66A

EN-DC 2A-n66A / 40MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-57.03	-13	-44.03	-78.78	-63.1	1.58	7.65	H
	5130	-55.21	-13	-42.21	-80.71	-62.5	2.41	9.70	H
	6840	-53.53	-13	-40.53	-82.09	-61.5	2.64	10.61	H
									H
									H
									H
									H
	3420	-56.83	-13	-43.83	-78.69	-62.9	1.58	7.65	V
	5130	-55.41	-13	-42.41	-80.83	-62.7	2.41	9.70	V
	6840	-54.13	-13	-41.13	-81.85	-62.1	2.64	10.61	V
									V
									V
									V
									V
Middle	3450	-57.11	-13	-44.11	-78.74	-63.3	1.59	7.78	H
	5175	-55.24	-13	-42.24	-80.81	-62.5	2.44	9.70	H
	6900	-53.34	-13	-40.34	-81.48	-61.4	2.62	10.68	H
									H
									H
									H
									H
	3450	-56.71	-13	-43.71	-78.59	-62.9	1.59	7.78	V
	5175	-55.54	-13	-42.54	-80.91	-62.8	2.44	9.70	V
	6900	-54.04	-13	-41.04	-81.82	-62.1	2.62	10.68	V
									V
									V
									V
									V

Highest	3480	-56.89	-13	-43.89	-78.59	-63.2	1.60	7.91	H
	5220	-55.16	-13	-42.16	-81.13	-62.4	2.46	9.70	H
	6960	-53.45	-13	-40.45	-81.5	-61.6	2.60	10.75	H
									H
									H
									H
									H
	3480	-56.99	-13	-43.99	-78.59	-63.3	1.60	7.91	V
	5220	-55.86	-13	-42.86	-81.13	-63.1	2.46	9.70	V
	6960	-53.75	-13	-40.75	-81.5	-61.9	2.60	10.75	V
									V
									V
									V
									V

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

EN-DC 2A-n41A

EN-DC 2A-n41A / 100MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4992	-54.88	-25	-29.88	-80.3	-62.23	2.33	9.68	H
	7494	-47.89	-25	-22.89	-76.52	-57.25	2.43	11.79	H
	9990	-48.65	-25	-23.65	-82.32	-58.16	2.69	12.21	H
									H
									H
									H
									H
	4992	-55.67	-25	-30.67	-80.84	-63.02	2.33	9.68	V
	7494	-53.32	-25	-28.32	-82.04	-62.68	2.43	11.79	V
	9990	-49.31	-25	-24.31	-82.88	-58.82	2.69	12.21	V
									V
									V
									V
									V
Middle	5088	-55.12	-25	-30.12	-80.66	-62.43	2.39	9.70	H
	7632	-52.18	-25	-27.18	-81.26	-61.67	2.39	11.88	H
	10170	-48.29	-25	-23.29	-82.39	-57.86	2.70	12.27	H
									H
									H
									H
									H
	5088	-55.45	-25	-30.45	-80.67	-62.76	2.39	9.70	V
	7632	-52.25	-25	-27.25	-81.56	-61.74	2.39	11.88	V
	10170	-48.59	-25	-23.59	-82.49	-58.16	2.70	12.27	V
									V
									V
									V
									V

Highest	5178	-54.48	-25	-29.48	-80.12	-61.74	2.44	9.70	H
	7770	-52.54	-25	-27.54	-81.91	-62.16	2.34	11.96	H
	10368	-48.16	-25	-23.16	-82.75	-57.81	2.69	12.35	H
									H
									H
									H
									H
	5178	-55.37	-25	-30.37	-80.89	-62.63	2.44	9.70	V
	7770	-52.22	-25	-27.22	-81.86	-61.84	2.34	11.96	V
	10368	-48.32	-25	-23.32	-82.65	-57.97	2.69	12.35	V
									V
									V
									V
									V

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