FCC RADIO TEST REPORT

FCC ID	**:**	**UZ7-ET85C**
Equipment	**:**	**2 in 1 Tablet PC with Windows OS**
Brand Name	**:**	**Zebra**
Model Name	**:**	**ET85C**
Applicant	**:**	**Zebra Technologies Corporation 1 Zebra Plaza, Holtsville, NY 11742**
Manufacturer	**:**	**Zebra Technologies Corporation 1 Zebra Plaza, Holtsville, NY 11742**
Standard	**:**	**FCC 47 CFR Part 2, 22(H), 24(E), 27**

The product was received on Sep. 07, 2021 and testing was performed from Sep. 24, 2021 to Dec. 15, 2021. 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 of 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	Issued Date
FG162602C	01	Initial issue of report	Dec. 28, 2021

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)(2)	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) (n7) (n41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (n66)		
-	§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) (n71)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (n7) (n41)		
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (n2) (n5) (n12) (n25) (n66) (n71)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (n7) (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) (n71)	Pass	Under limit 25.63 dB at 2490.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (n7) (n41)		

Note: The module (Model: RM505Q-AE) makes no difference after verifying output power, this report reuses test data from the module report.

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.

Reviewed by: Wei Chen

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	2 in 1 Tablet PC with Windows OS
Brand Name	Zebra
Model Name	ET85C
FCC ID	UZ7-ET85C
Sample 1	140mm for the tablet with none passthrough
Sample 2	212mm for the tablet with passthrough
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	DV
SW Version	Windows 10 Pro
MFD	2021/Feb.
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
Adaptor with CLA cable	**Brand Name**	Zebra	**Model Number**	ADP-45XE B
Battery	**Brand Name**	ZEBRA	**Model Number**	BT-000433
Power cord	**Brand Name**	Zebra	**Model Number**	450040

Supported Unit Used in Test Configuration and System				
CAC Reader	**Brand Name**	Zebra	**Model Number**	ZBK-ET8X-SMARTCARD-01
Keyboard	**Brand Name**	Zebra	**Model Number**	KBD-ET8X

1.2 Product Specification of Equipment Under Test

Product Specification is subjective to this standard	
Tx Frequency	5G NR n2: 1852.5 MHz ~ 1907.5 MHz 5G NR n5: 826.5 MHz ~ 846.5 MHz 5G NR n7: 2502.5 MHz ~ 2567.5 MHz 5G NR n12: 701.5 MHz ~ 713.5 MHz 5G NR n25: 1852.5 MHz ~ 1912.5 MHz 5G NR n41: 2506.02 MHz ~ 2679.99 MHz 5G NR n66: 1712.5 MHz ~ 1777.5 MHz 5G NR n71: 665.5 MHz ~ 695.5 MHz
Rx Frequency	5G NR n2: 1932.5 MHz ~ 1987.5 MHz 5G NR n5: 871.5 MHz ~ 891.5 MHz 5G NR n7: 2622.5 MHz ~ 2687.5 MHz 5G NR n12: 731.5 MHz ~ 743.5 MHz 5G NR n25: 1932.5 MHz ~ 1992.5 MHz 5G NR n41: 2506.02 MHz ~ 2679.99 MHz 5G NR n66: 2112.5 MHz ~ 2197.5 MHz 5G NR n71: 619.5 MHz ~ 649.5 MHz
Bandwidth	5G NR n2: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n5: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n7: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n12: 5MHz / 10MHz / 15MHz 5G NR n25: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n41: 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 80MHz / 100MHz 5G NR n66: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n71: 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	**<SISO Mode>** 5G NR n2: 24.27 dBm 5G NR n5: 24.18 dBm 5G NR n7: 24.00 dBm 5G NR n12: 24.07 dBm 5G NR n25: 24.31 dBm 5G NR n41: 26.33 dBm 5G NR n41: 23.68 dBm for HPUE 5G NR n66: 24.17 dBm 5G NR n71: 24.17 dBm **<MIMO Mode>** 5G NR n41: 25.03 dBm
Antenna Type	Fixed Internal Antenna

Product Specification is subjective to this standard	
Antenna Gain	**<Main>:** 5G NR n5: 0.91 dBi 5G NR n12: 0.10 dBi 5G NR n71: 0.40 dBi **<Aux.>:** 5G NR n41: 0.78 dBi **<MIMO1>** 5G NR n2: -0.79 dBi 5G NR n7: 2.39 dBi 5G NR n25: -0.51 dBi 5G NR n41: 2.39 dBi 5G NR n66: 0.85 dBi
Type of Modulation	PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

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

1.4 Maximum ERP/EIRP Power

5G NR n2		PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
5	1852.5 ~ 1907.5	0.2158	0.2158	0.1799	0.1799	0.1799
10	1855.0 ~ 1905.0	0.2188	0.2188	0.1698	0.1698	0.1698
15	1857.5 ~ 1902.5	0.2228	0.2228	0.1849	0.1849	0.1849
20	1860.0 ~ 1900.0	0.2213	0.2213	0.1854	0.1854	0.1854
5G NR n5		PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)
5	826.5 ~ 846.5	0.1968	0.1968	0.1578	0.1578	0.1578
10	829.0 ~ 844.0	0.1932	0.1932	0.1614	0.1614	0.1614
15	831.5 ~ 841.5	0.1950	0.1950	0.1622	0.1622	0.1622
20	834.0~839.0	0.1928	0.1928	0.1611	0.1611	0.1611
5G NR n7		PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum ERP(W)
5	2502.5 ~ 2567.5	0.4150	0.4150	0.3491	0.3491	0.3491
10	2505.0 ~ 2565.0	0.4130	0.4130	0.3475	0.3475	0.3475
15	2507.5 ~ 2562.5	0.4295	0.4295	0.3622	0.3622	0.3622
20	2510.0 ~ 2560.0	0.4355	0.4355	0.3556	0.3556	0.3556
5G NR n12		PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)
5	701.5 ~ 713.5	0.1549	0.1549	0.1300	0.1300	0.1300
10	704.0 ~ 711.0	0.1500	0.1500	0.1274	0.1274	0.1274
15	706.5 ~ 708.5	0.1592	0.1592	0.1352	0.1352	0.1352
5G NR n25		PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
5	1852.5 ~ 1912.5	0.2344	0.2344	0.1963	0.1963	0.1963
10	1855.0 ~ 1910.0	0.2393	0.2393	0.1837	0.1837	0.1837
15	1857.5 ~ 1907.5	0.2399	0.2399	0.1972	0.1972	0.1972
20	1860.0 ~ 1905.0	0.2371	0.2371	0.2023	0.2023	0.2023

5G NR n41		PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	0.6918	0.6918	0.5200	0.5200	0.5200
30	2511.00 ~ 2674.98	0.7261	0.7261	0.5321	0.5321	0.5321
40	2516.01 ~ 2670.00	0.7447	0.7447	0.5689	0.5689	0.5689
50	2521.02 ~ 2664.99	0.7129	0.7129	0.5346	0.5346	0.5346
60	2526.00 ~ 2659.98	0.6982	0.6982	0.5188	0.5188	0.5188
80	2536.02 ~ 2649.99	0.6427	0.6427	0.4853	0.4853	0.4853
100	2546.01 ~ 2640.00	0.6808	0.6808	0.6442	0.6442	0.6442
5G NR n41_HPUE		PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	0.3597	0.3597	0.3589	0.3589	0.3589
30	2511.00 ~ 2674.98	0.3793	0.3793	0.3750	0.3750	0.3750
40	2516.01 ~ 2670.00	0.4046	0.4046	0.3990	0.3990	0.3990
50	2521.02 ~ 2664.99	0.3741	0.3741	0.3917	0.3917	0.3917
60	2526.00 ~ 2659.98	0.3715	0.3715	0.3733	0.3733	0.3733
80	2536.02 ~ 2649.99	0.3499	0.3499	0.3581	0.3581	0.3581
100	2546.01 ~ 2640.00	0.3540	0.3540	0.3548	0.3548	0.3548
5G NR n41_MIMO		PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	-	0.6397	0.6653	0.6653	0.6653
30	2511.00 ~ 2674.98	-	0.6871	0.6887	0.6887	0.6887
40	2516.01 ~ 2670.00	-	0.7063	0.6950	0.6950	0.6950
50	2521.02 ~ 2664.99	-	0.9183	0.8110	0.8110	0.8110
60	2526.00 ~ 2659.98	-	0.9247	0.8128	0.8128	0.8128
80	2536.02 ~ 2649.99	-	0.8375	0.7691	0.7691	0.7691
100	2546.01 ~ 2640.00	-	0.8017	0.7244	0.7244	0.7244

5G NR n66		PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
5	1712.5 ~ 1777.5	0.3034	0.3034	0.2529	0.2529	0.2529
10	1715.0 ~ 1775.0	0.3105	0.3105	0.2438	0.2438	0.2438
15	1717.5 ~ 1772.5	0.3177	0.3177	0.2661	0.2661	0.2661
20	1720.0 ~ 1770.0	0.3083	0.3083	0.2541	0.2541	0.2541
5G NR n71		PI/2 BPSK	QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)
5	665.5 ~ 695.5	0.1718	0.1718	0.1377	0.1377	0.1377
10	668.0 ~ 693.0	0.1706	0.1706	0.1462	0.1462	0.1462
15	670.5 ~ 690.5	0.1746	0.1746	0.1422	0.1422	0.1422
20	673.0 ~ 688.0	0.1734	0.1734	0.1472	0.1472	0.1472

1.5 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
Test Engineer	Sherry Wu
Temperature	22.2~25.5℃
Relative Humidity	45.8~61.2%

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu
Temperature	22.3~26.4℃
Relative Humidity	58~66%
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW3786

1.6 Applicable Standards

According to the specifications of 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 test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

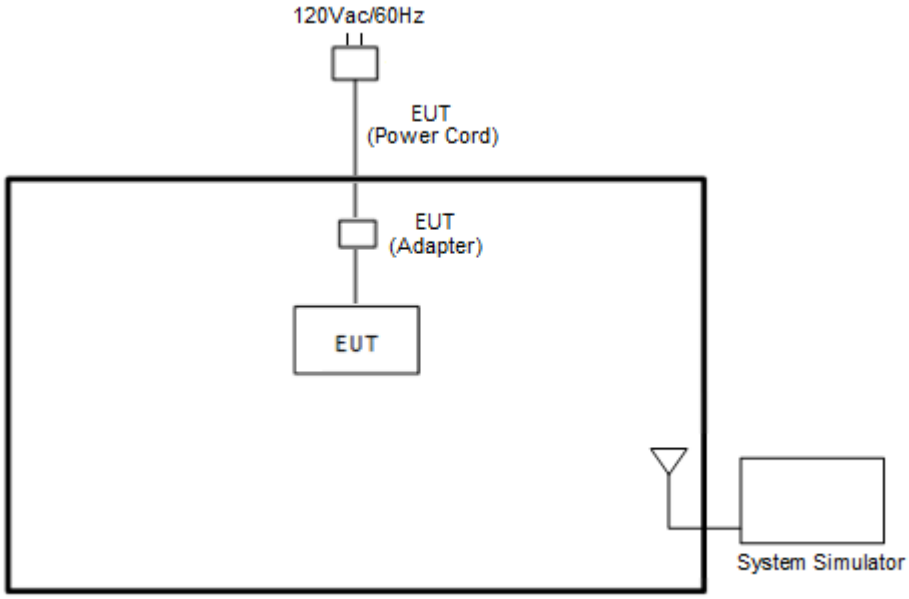
2.1 Test Mode

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 find X Plane with Adapter for 5G NR n7, n41, and n71; Y Plane with Adapter for 5G NR n2, n25, and n66; Z Plane with Adapter for 5G NR n5 and n12 as worst plane.

Test Items	NR Band	Bandwidth (MHz)										Modulation					RB #			Test Channel		
		5	10	15	20	30	40	50	60	80	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
	n7	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
	n41	-	-	-	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
	n71	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
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						
	n7	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						
	n41	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v						
	n66	v	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
	n7				v	-	-	-	-	-	-	v					v			v	v	v
	n12			v	-				-	-	-	v					v			v	v	v
	n25				v	-	-	-	-	-	-	v					v			v	v	v
	n41	-	-	-	v							v					v			v	v	v
	n66				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. All the radiated test cases were performed with Sample 1. 5. 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.																					

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	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	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 Band n7 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5

5G NR Band 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 Band n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
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 Band 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
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
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 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

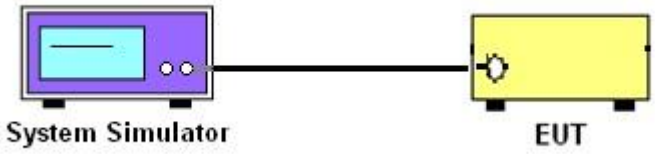
3 Conducted Test Items

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 n7 and n41

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

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

Note: For MIMO mode, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The directional gain “DG” is calculated as following table.

5G NR n41	MIMO 1 (dBi)	Aux. (dBi)	Directional gain (dBi)
	2.39	0.78	4.63

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.

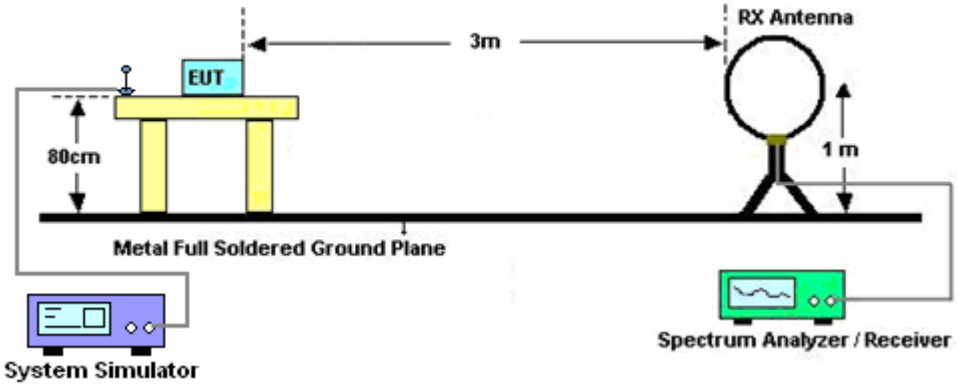
4 Radiated Test Items

4.1 Measuring Instruments

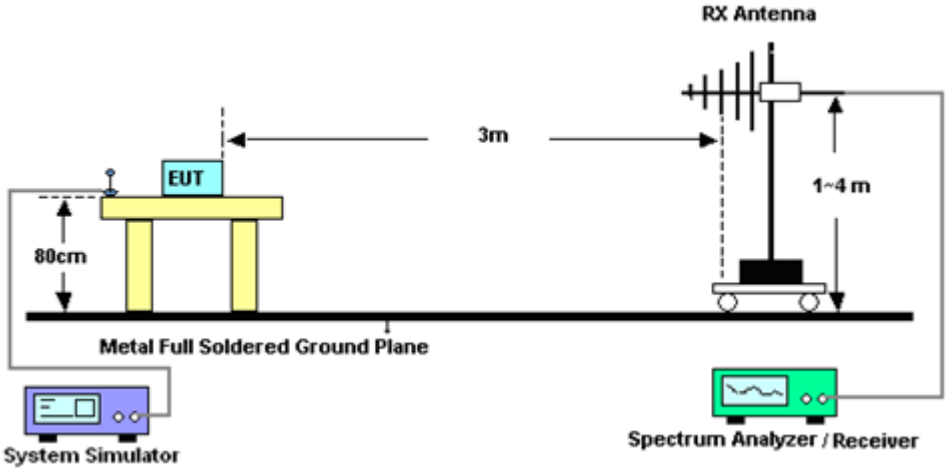
See list of measuring instruments of this test report.

4.1.1 Test Setup

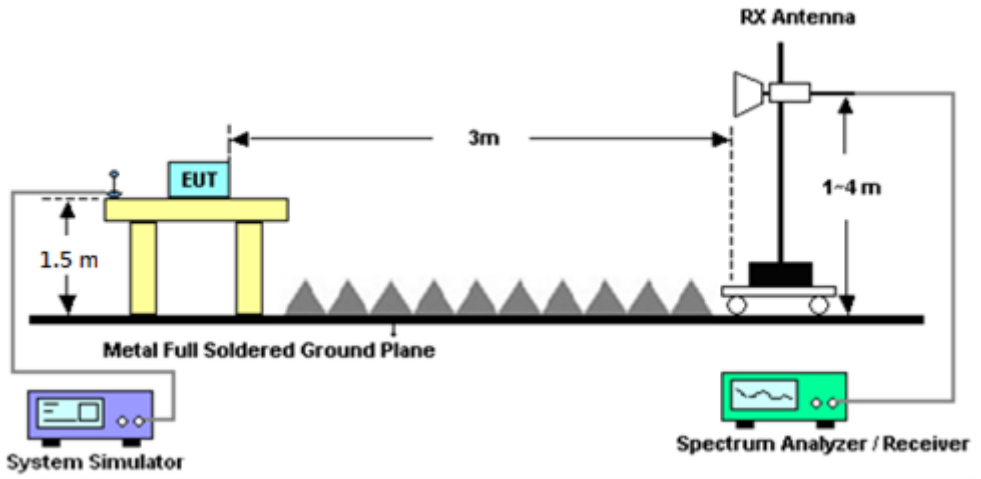
For radiated test below 30MHz



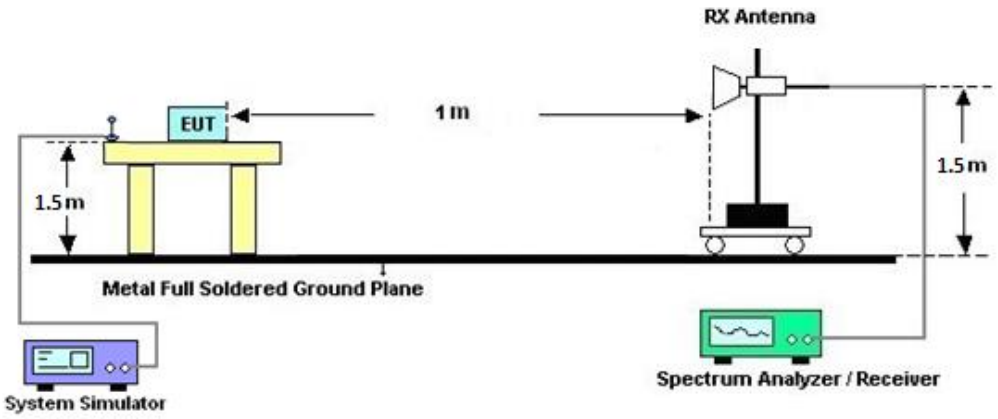
For radiated test from 30MHz to 1GHz



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 n7, 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 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 n7, 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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Sep. 24, 2021~ Oct. 26, 2021	Jan. 03, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 28, 2021	Sep. 24, 2021~ Oct. 26, 2021	Apr. 27, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	41912 & 05	30MHz~1GHz	Feb. 08, 2021	Sep. 24, 2021~ Oct. 26, 2021	Feb. 07, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Nov. 23, 2020	Sep. 24, 2021~ Oct. 26, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 18, 2021	Sep. 24, 2021~ Oct. 26, 2021	May 17, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz~40GHz	Nov. 19, 2020	Sep. 24, 2021~ Oct. 26, 2021	Nov. 18, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 21, 2021	Sep. 24, 2021~ Oct. 26, 2021	May 20, 2022	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	Sep. 24, 2021~ Oct. 26, 2021	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 25, 2021	Sep. 24, 2021~ Oct. 26, 2021	May 24, 2022	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz~18GHz	Dec. 05, 2020	Sep. 24, 2021~ Oct. 26, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Sep. 24, 2021~ Oct. 26, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Sep. 24, 2021~ Oct. 26, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMB100A	101107	100kHz~40GHz	Dec. 04, 2020	Sep. 24, 2021~ Oct. 26, 2021	Dec. 03, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Sep. 24, 2021~ Oct. 26, 2021	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Sep. 24, 2021~ Oct. 26, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Sep. 24, 2021~ Oct. 26, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Sep. 24, 2021~ Oct. 26, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	Sep. 24, 2021~ Oct. 26, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-1080-1200-15000-60SS	SN1	1.2GHz High Pass Filter	Mar. 17, 2021	Sep. 24, 2021~ Oct. 26, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	3GHz High Pass Filter	Jul. 12, 2021	Sep. 24, 2021~ Oct. 26, 2021	Jul. 11, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 24, 2021~ Oct. 26, 2021	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Sep. 24, 2021~ Oct. 26, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 24, 2021~ Oct. 26, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Sep. 24, 2021~ Oct. 26, 2021	N/A	Radiation (03CH12-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H11	3489324	NA	Mar. 01, 2021	Sep. 30, 2021~ Dec. 15, 2021	Feb. 28, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262044657	LTE	Jan. 07, 2021	Sep. 30, 2021~ Dec. 15, 2021	Jan. 06, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262012917	FR1	Jan. 07, 2021	Sep. 30, 2021~ Dec. 15, 2021	Jan. 06, 2022	Conducted (TH03-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.10 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.39 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.34 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 = -0.79 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	23.97	24.08	24.03	23.34	0.2158
5	1	23		24.04	24.06	24.03		
5	12	6		24.10	24.08	24.04		
5	1	0		23.50	23.55	23.52		
5	1	24		23.56	23.54	23.51		
5	25	0		23.52	23.58	23.55		
5	1	1	QPSK	24.00	23.95	24.00		
5	1	23		24.10	24.13	24.05		
5	12	6		24.06	24.06	24.01		
5	1	0		23.00	22.97	23.04		
5	1	24		23.10	23.07	23.05		
5	25	0		23.06	23.09	23.07		
5	1	1	16-QAM	22.93	23.33	23.34	22.55	0.1799
5	1	1	64-QAM	21.75	21.19	21.13		
5	1	1	256-QAM	18.93	18.94	18.95		
Limit	EIRP < 2W			Result			Pass	

NR n2 Maximum Average Power [dBm] (GT - LC = -0.79 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.81	23.98	24.05	23.40	0.2188
10	1	50		23.99	24.11	24.04		
10	25	12		24.19	24.01	24.09		
10	1	0		23.25	23.52	23.57		
10	1	51		23.33	23.56	23.48		
10	50	0		23.70	23.52	23.60		
10	1	1	QPSK	24.13	24.02	24.07		
10	1	50		24.14	24.11	24.06		
10	25	12		24.16	24.01	24.07		
10	1	0		23.11	23.00	23.10		
10	1	51		23.05	23.08	23.06		
10	50	0		23.16	23.01	23.05		
10	1	1	16-QAM	23.01	22.99	23.09	22.30	0.1698
10	1	1	64-QAM	21.39	21.18	21.80		
10	1	1	256-QAM	19.18	18.99	19.02		
Limit	EIRP < 2W			Result			Pass	

NR n2 Maximum Average Power [dBm] (GT - LC = -0.79 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	24.24	24.11	24.07	23.48	0.2228
15	1	77		24.27	24.19	24.04		
15	36	18		24.26	24.10	24.02		
15	1	0		23.73	23.55	23.48		
15	1	78		23.73	23.67	23.54		
15	75	0		23.78	23.71	23.53		
15	1	1	QPSK	24.25	24.17	24.11		
15	1	77		24.27	24.20	24.05		
15	36	18		24.26	24.11	24..07		
15	1	0		23.25	23.15	23.05		
15	1	78		23.25	23.25	23.09		
15	75	0		23.22	23.14	23.08		
15	1	1	16-QAM	23.46	23.18	23.02	22.67	0.1849
15	1	1	64-QAM	21.32	21.82	21.77		
15	1	1	256-QAM	19.06	19.01	18.97		
Limit	EIRP < 2W			Result			Pass	

NR n2 Maximum Average Power [dBm] (GT - LC = -0.79 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	24.21	24.10	24.12	23.45	0.2213
20	1	104		24.12	24.21	24.01		
20	50	25		24.23	24.14	24.11		
20	1	0		23.76	23.66	23.63		
20	1	105		23.68	23.70	23.51		
20	100	0		23.72	23.60	23.57		
20	1	1	QPSK	24.10	24.12	24.11		
20	1	104		24.20	24.17	23.97		
20	50	25		24.24	24.17	24.12		
20	1	0		23.11	23.15	21.16		
20	1	105		23.22	23.20	23.00		
20	100	0		23.21	23.14	23.13		
20	1	1	16-QAM	23.19	23.40	23.47	22.68	0.1854
20	1	1	64-QAM	21.86	21.21	21.24		
20	1	1	256-QAM	19.04	18.97	19.01		
Limit	EIRP < 2W			Result			Pass	

NR n5 Maximum Average Power [dBm] (GT - LC = 0.91 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	24.14	24.05	23.96	22.94	0.1968
5	1	23		23.94	23.96	23.40		
5	12	6		24.03	24.03	23.83		
5	1	0		23.56	23.47	23.35		
5	1	24		23.36	23.35	22.81		
5	25	0		23.47	23.47	23.31		
5	1	1	QPSK	24.18	24.16	23.97		
5	1	23		23.94	24.07	23.84		
5	12	6		23.97	23.99	23.82		
5	1	0		23.10	23.11	22.90		
5	1	24		22.95	23.04	22.90		
5	25	0		22.97	22.99	22.79		
5	1	1	16-QAM	23.04	22.87	23.22	21.98	0.1578
5	1	1	64-QAM	21.70	21.29	21.09		
5	1	1	256-QAM	19.15	19.07	18.91		
Limit	ERP < 7W			Result			Pass	

NR n5 Maximum Average Power [dBm] (GT - LC = 0.91 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	23.98	23.86	23.82	22.86	0.1932
10	1	50		23.86	23.29	23.45		
10	25	12		24.09	24.10	23.88		
10	1	0		23.55	23.35	23.34		
10	1	51		23.42	22.67	22.85		
10	50	0		23.55	23.52	23.01		
10	1	1	QPSK	24.10	23.98	23.87		
10	1	50		23.94	23.95	23.41		
10	25	12		24.01	24.03	23.83		
10	1	0		23.11	22.94	22.88		
10	1	51		22.97	22.89	22.70		
10	50	0		23.03	22.90	22.80		
10	1	1	16-QAM	23.32	22.77	22.77	22.08	0.1614
10	1	1	64-QAM	21.24	21.51	21.53		
10	1	1	256-QAM	19.06	18.97	18.79		
Limit	ERP < 7W			Result			Pass	

NR n5 Maximum Average Power [dBm] (GT - LC = 0.91 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
15	1	1	PI/2 BPSK	24.12	24.02	23.91	22.90	0.1950
15	1	77		24.07	24.05	23.79		
15	36	18		24.00	24.02	24.04		
15	1	0		23.55	23.48	23.34		
15	1	78		23.57	23.50	23.27		
15	75	0		23.45	23.54	23.43		
15	1	1	QPSK	24.13	24.10	24.00		
15	1	77		24.14	23.94	23.31		
15	36	18		24.01	24.08	23.97		
15	1	0		23.11	23.04	22.92		
15	1	78		23.10	23.01	22.78		
15	75	0		22.98	23.03	22.92		
15	1	1	16-QAM	23.06	23.34	23.34	22.10	0.1622
15	1	1	64-QAM	21.70	21.18	21.14		
15	1	1	256-QAM	19.05	19.01	18.98		
Limit	ERP < 7W			Result			Pass	

NR n5 Maximum Average Power [dBm] (GT - LC = 0.91 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
20	1	1	PI/2 BPSK	24.02	24.05	24.01	22.85	0.1928
20	1	104		23.76	23.59	23.19		
20	50	25		24.08	24.05	24.04		
20	1	0		23.52	23.61	23.50		
20	1	105		23.18	23.05	22.59		
20	100	0		23.52	23.52	23.47		
20	1	1	QPSK	24.08	24.09	24.03		
20	1	104		23.24	23.80	23.38		
20	50	25		24.06	24.04	24.01		
20	1	0		23.04	23.06	22.99		
20	1	105		22.94	22.93	22.83		
20	100	0		23.02	23.05	23.04		
20	1	1	16-QAM	23.31	23.01	22.90	22.07	0.1611
20	1	1	64-QAM	21.16	21.75	21.61		
20	1	1	256-QAM	18.98	19.01	18.96		
Limit	ERP < 7W			Result			Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	23.76	23.60	23.61	26.18	0.4150
5	1	23		23.71	23.59	23.54		
5	12	6		23.74	23.64	23.63		
5	1	0		23.28	23.07	23.14		
5	1	24		23.19	23.00	23.07		
5	25	0		23.34	23.12	23.16		
5	1	1	QPSK	23.75	23.63	23.56		
5	1	23		23.79	23.58	23.33		
5	12	6		23.70	23.59	23.54		
5	1	0		22.78	22.59	22.68		
5	1	24		22.74	22.55	22.41		
5	25	0		22.82	22.62	22.64		
5	1	1	16-QAM	23.04	22.56	22.58	25.43	0.3491
5	1	1	64-QAM	20.90	21.28	21.32		
5	1	1	256-QAM	18.73	18.58	18.91		
Limit	EIRP < 2W			Result			Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.65	23.60	23.58	26.16	0.4130
10	1	50		23.55	23.70	23.55		
10	25	12		23.77	23.66	23.71		
10	1	0		23.10	23.14	23.17		
10	1	51		23.10	23.11	23.13		
10	50	0		23.22	23.19	23.21		
10	1	1	QPSK	23.69	23.66	23.65		
10	1	50		23.66	23.71	23.12		
10	25	12		23.71	23.69	23.71		
10	1	0		22.71	22.68	22.74		
10	1	51		22.70	22.76	22.63		
10	50	0		22.76	22.63	22.70		
10	1	1	16-QAM	22.66	22.97	23.02	25.41	0.3475
10	1	1	64-QAM	21.34	20.77	20.81		
10	1	1	256-QAM	18.70	18.60	18.67		
Limit	EIRP < 2W			Result			Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.94	23.73	23.80	26.33	0.4295
15	1	77		23.82	23.72	23.72		
15	36	18		23.88	23.80	23.78		
15	1	0		23.38	23.26	23.30		
15	1	78		23.34	23.20	23.17		
15	75	0		23.32	23.26	23.28		
15	1	1	QPSK	23.80	23.72	23.91		
15	1	77		23.92	23.80	23.77		
15	36	18		23.92	23.83	23.82		
15	1	0		22.94	22.76	22.90		
15	1	78		22.89	22.73	22.72		
15	75	0		22.92	22.78	22.78		
15	1	1	16-QAM	23.20	22.70	22.79	25.59	0.3622
15	1	1	64-QAM	21.02	21.43	21.52		
15	1	1	256-QAM	18.81	18.84	18.71		
Limit	EIRP < 2W			Result			Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.84	23.78	23.74	26.39	0.4355
20	1	104		23.90	23.73	23.69		
20	50	25		23.94	23.77	23.75		
20	1	0		23.42	23.24	23.21		
20	1	105		23.32	23.25	23.13		
20	100	0		23.40	23.27	23.27		
20	1	1	QPSK	24.00	23.85	23.71		
20	1	104		23.87	23.71	23.70		
20	50	25		23.95	23.83	23.75		
20	1	0		23.01	22.92	22.77		
20	1	105		22.91	22.76	22.72		
20	100	0		22.95	22.77	22.73		
20	1	1	16-QAM	22.91	23.12	23.04	25.51	0.3556
20	1	1	64-QAM	21.70	20.96	2.85		
20	1	1	256-QAM	18.85	18.71	18.57		
Limit	EIRP < 2W			Result			Pass	

NR n12 Maximum Average Power [dBm] (GT - LC = 0.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	23.88	23.79	23.67	21.90	0.1549
5	1	23		23.66	23.63	23.10		
5	12	6		23.79	23.80	23.58		
5	1	0		23.41	23.23	23.17		
5	1	24		23.15	23.14	22.95		
5	25	0		23.28	23.19	23.07		
5	1	1	QPSK	23.95	23.75	23.66		
5	1	23		23.77	23.70	23.52		
5	12	6		23.76	23.73	23.50		
5	1	0		22.93	22.78	22.70		
5	1	24		22.70	22.66	22.51		
5	25	0		22.79	22.66	22.59		
5	1	1	16-QAM	23.19	22.68	22.54	21.14	0.1300
5	1	1	64-QAM	21.06	21.38	21.35		
5	1	1	256-QAM	19.00	18.93	18.82		
Limit	ERP < 3W			Result			Pass	

NR n12 Maximum Average Power [dBm] (GT - LC = 0.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	23.81	23.78	23.66	21.76	0.1500
10	1	50		23.67	23.65	23.53		
10	25	12		23.75	23.81	23.70		
10	1	0		23.30	23.23	23.11		
10	1	51		23.13	23.11	22.97		
10	50	0		23.20	23.33	23.20		
10	1	1	QPSK	23.79	23.81	23.68		
10	1	50		23.67	23.74	23.54		
10	25	12		23.74	23.76	23.69		
10	1	0		22.78	22.86	22.75		
10	1	51		22.63	22.79	22.61		
10	50	0		22.68	22.70	22.65		
10	1	1	16-QAM	23.10	22.54	22.42	21.05	0.1274
10	1	1	64-QAM	20.97	21.09	21.00		
10	1	1	256-QAM	18.92	19.00	18.92		
Limit	ERP < 3W			Result			Pass	

NR n12 Maximum Average Power [dBm] (GT - LC = 0.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
15	1	1	PI/2 BPSK	24.02	23.96	23.91	22.02	0.1592
15	1	77		23.67	23.63	23.65		
15	36	18		23.84	23.83	23.78		
15	1	0		23.51	23.43	23.37		
15	1	78		23.16	23.09	23.07		
15	75	0		23.35	23.31	23.25		
15	1	1	QPSK	24.07	24.01	23.92		
15	1	77		23.70	23.66	23.63		
15	36	18		23.91	23.85	23.78		
15	1	0		23.05	22.96	22.91		
15	1	78		22.69	22.63	22.61		
15	75	0		22.87	22.85	22.80		
15	1	1	16-QAM	23.36	22.90	22.85	21.31	0.1352
15	1	1	64-QAM	21.19	21.62	21.61		
15	1	1	256-QAM	19.09	19.04	19.07		
Limit	ERP < 3W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = -0.51 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	24.07	24.10	24.10	23.70	0.2344
5	1	23		24.20	24.15	23.87		
5	12	6		24.21	24.19	24.12		
5	1	0		23.53	23.58	23.64		
5	1	24		23.70	23.60	23.33		
5	25	0		23.66	23.66	23.61		
5	1	1	QPSK	24.07	24.17	23.99		
5	1	23		24.20	24.17	23.91		
5	12	6		24.19	24.11	24.10		
5	1	0		23.03	23.13	23.04		
5	1	24		23.23	23.15	22.89		
5	25	0		23.21	23.14	23.11		
5	1	1	16-QAM	23.03	23.43	23.44	22.93	0.1963
5	1	1	64-QAM	21.87	21.26	21.30		
5	1	1	256-QAM	19.00	19.00	19.03		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = -0.51 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	24.15	24.12	23.00	23.79	0.2393
10	1	50		24.19	24.04	23.10		
10	25	12		24.20	24.16	24.21		
10	1	0		23.65	23.57	22.48		
10	1	51		23.67	23.61	22.52		
10	50	0		23.70	23.66	23.55		
10	1	1	QPSK	24.27	24.07	24.22		
10	1	50		24.30	24.17	24.02		
10	25	12		24.23	24.14	24.19		
10	1	0		23.38	23.19	23.18		
10	1	51		23.38	24.12	23.12		
10	50	0		23.20	23.14	23.14		
10	1	1	16-QAM	22.93	23.08	23.15	22.64	0.1837
10	1	1	64-QAM	21.59	21.77	21.94		
10	1	1	256-QAM	19.23	19.03	19.21		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = -0.51 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	24.27	24.14	24.12	23.80	0.2399
15	1	77		24.29	24.23	23.99		
15	36	18		24.29	24.09	24.21		
15	1	0		23.66	23.65	23.69		
15	1	78		23.74	23.74	23.47		
15	75	0		23.81	23.72	23.71		
15	1	1	QPSK	24.26	24.28	24.20		
15	1	77		24.30	24.30	24.16		
15	36	18		24.31	24.15	24.25		
15	1	0		23.18	23.28	23.10		
15	1	78		23.30	23.32	23.12		
15	75	0		23.28	23.29	23.24		
15	1	1	16-QAM	23.18	22.99	23.46	22.95	0.1972
15	1	1	64-QAM	21.99	21.37	21.27		
15	1	1	256-QAM	19.11	19.12	19.01		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = -0.51 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	24.19	24.12	24.18	23.75	0.2371
20	1	104		24.12	24.09	24.05		
20	50	25		24.23	24.23	24.17		
20	1	0		23.64	23.65	23.73		
20	1	105		23.63	23.55	23.59		
20	100	0		23.72	23.66	23.62		
20	1	1	QPSK	24.26	24.15	24.18		
20	1	104		24.12	24.11	24.16		
20	50	25		24.26	24.18	24.17		
20	1	0		23.17	23.20	23.24		
20	1	105		23.20	23.15	23.14		
20	100	0		23.25	23.23	23.18		
20	1	1	16-QAM	23.57	23.24	23.07	23.06	0.2023
20	1	1	64-QAM	21.47	21.97	21.99		
20	1	1	256-QAM	19.12	19.00	19.09		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	25.81	25.80	25.44	28.40	0.6918
20	1	49		25.74	26.01	25.02		
20	25	12		25.81	25.86	25.06		
20	1	0		22.37	22.34	22.21		
20	1	50		22.27	22.54	22.07		
20	50	0		25.28	25.27	24.87		
20	1	1	QPSK	25.88	25.95	25.22		
20	1	49		25.71	26.00	24.76		
20	25	12		25.78	25.94	24.95		
20	1	0		22.39	22.34	22.34		
20	1	50		22.25	22.45	22.24		
20	50	0		24.78	24.86	24.21		
20	1	1	16-QAM	24.77	24.56	24.06	27.16	0.5200
20	1	1	64-QAM	23.43	23.51	23.29		
20	1	1	256-QAM	21.32	21.33	21.15		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	26.11	26.22	25.56	28.61	0.7261
30	1	76		25.87	26.14	24.62		
30	36	18		26.01	26.17	25.17		
30	1	0		22.71	22.70	22.77		
30	1	77		22.57	22.72	22.68		
30	75	0		25.50	25.67	25.00		
30	1	1	QPSK	26.11	25.96	25.66		
30	1	76		25.97	25.92	24.71		
30	36	18		25.99	25.98	25.11		
30	1	0		22.60	22.77	22.73		
30	1	77		22.50	22.78	22.65		
30	75	0		25.00	25.19	24.17		
30	1	1	16-QAM	24.87	24.70	24.50	27.26	0.5321
30	1	1	64-QAM	23.65	23.19	23.29		
30	1	1	256-QAM	21.26	21.80	21.59		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	26.08	26.23	26.15	28.72	0.7447
40	1	104		25.96	26.33	24.90		
40	50	25		25.93	26.16	25.24		
40	1	0		22.64	22.83	22.77		
40	1	105		22.57	22.88	22.63		
40	100	0		25.55	25.75	25.22		
40	1	1	QPSK	26.06	26.07	25.87		
40	1	104		26.01	26.03	24.37		
40	50	25		25.95	26.03	25.38		
40	1	0		22.63	22.61	22.63		
40	1	105		22.60	22.71	22.48		
40	100	0		25.06	25.14	24.63		
40	1	1	16-QAM	24.96	25.16	24.76	27.55	0.5689
40	1	1	64-QAM	23.52	23.70	23.70		
40	1	1	256-QAM	21.30	21.62	21.55		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	25.75	26.01	25.88	28.53	0.7129
50	1	131		25.80	26.09	24.85		
50	64	32		25.75	26.14	25.82		
50	1	0		22.31	22.59	22.38		
50	1	132		22.39	22.66	22.36		
50	128	0		25.27	25.60	25.20		
50	1	1	QPSK	25.79	26.05	25.89		
50	1	131		25.87	26.08	24.87		
50	64	32		25.74	26.09	25.63		
50	1	0		22.31	22.61	22.49		
50	1	132		22.33	22.71	22.41		
50	128	0		24.77	25.12	24.86		
50	1	1	16-QAM	24.66	24.89	24.72	27.28	0.5346
50	1	1	64-QAM	23.38	23.50	23.41		
50	1	1	256-QAM	21.03	21.55	21.51		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
60	1	1	PI/2 BPSK	25.76	25.87	25.90	28.44	0.6982
60	1	160		25.73	26.05	24.85		
60	81	40		25.75	26.01	25.77		
60	1	0		22.28	22.37	22.36		
60	1	161		22.40	22.60	22.25		
60	162	0		25.33	25.56	25.29		
60	1	1	QPSK	25.67	25.91	25.82		
60	1	160		25.72	26.02	24.66		
60	81	40		25.68	26.03	25.64		
60	1	0		22.29	22.38	22.40		
60	1	161		22.27	22.59	22.37		
60	162	0		24.82	25.00	24.80		
60	1	1	16-QAM	24.55	24.76	24.73	27.15	0.5188
60	1	1	64-QAM	23.29	23.31	23.26		
60	1	1	256-QAM	20.68	21.66	21.66		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
80	1	1	PI/2 BPSK	25.53	25.66	25.66	28.08	0.6427
80	1	215		25.27	25.63	24.82		
80	108	54		25.45	25.66	25.57		
80	1	0		22.11	22.25	22.17		
80	1	216		21.85	22.11	22.05		
80	216	0		24.97	25.18	25.16		
80	1	1	QPSK	25.59	25.48	25.58		
80	1	215		25.35	25.45	24.55		
80	108	54		25.41	25.67	25.69		
80	1	0		22.16	22.06	22.08		
80	1	216		21.87	21.95	21.96		
80	216	0		24.47	24.59	24.67		
80	1	1	16-QAM	24.47	24.40	24.36	26.86	0.4853
80	1	1	64-QAM	23.04	23.17	23.21		
80	1	1	256-QAM	20.99	21.20	21.14		
Limit	EIRP < 2W			Result			Pass	

NR n41 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1	PI/2 BPSK	25.45	25.85	25.68	28.33	0.6808
100	1	271		25.13	25.70	24.65		
100	135	67		25.38	25.82	25.70		
100	1	0		22.01	22.36	22.25		
100	1	272		21.64	22.25	22.14		
100	270	0		24.98	25.25	25.20		
100	1	1	QPSK	25.43	25.94	25.75		
100	1	271		25.12	25.73	24.70		
100	135	67		25.46	25.80	25.67		
100	1	0		21.96	22.38	22.31		
100	1	272		21.61	22.16	22.17		
100	270	0		24.52	24.80	24.70		
100	1	1	16-QAM	24.25	24.82	25.70	28.09	0.6442
100	1	1	64-QAM	23.07	23.48	23.32		
100	1	1	256-QAM	20.94	21.29	21.20		
Limit	EIRP < 2W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 0.85 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	23.71	23.84	23.72	24.82	0.3034
5	1	23		23.77	23.97	23.68		
5	12	6		23.87	23.90	23.74		
5	1	0		23.20	23.36	23.20		
5	1	24		23.18	23.33	23.19		
5	25	0		23.37	23.32	23.26		
5	1	1	QPSK	23.94	23.91	23.62		
5	1	23		23.81	22.83	23.74		
5	12	6		23.75	23.81	23.71		
5	1	0		22.80	22.89	22.61		
5	1	24		22.79	22.87	22.66		
5	25	0		22.80	22.86	22.72		
5	1	1	16-QAM	23.18	22.88	22.40	24.03	0.2529
5	1	1	64-QAM	20.97	21.51	21.33		
5	1	1	256-QAM	18.83	18.88	18.65		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 0.85 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.97	23.94	23.81	24.92	0.3105
10	1	50		23.84	23.91	23.73		
10	25	12		23.89	23.91	23.84		
10	1	0		23.44	23.38	23.37		
10	1	51		23.38	23.37	23.24		
10	50	0		23.43	23.40	23.36		
10	1	1	QPSK	24.07	23.92	23.74		
10	1	50		24.01	23.85	23.65		
10	25	12		23.94	23.86	23.79		
10	1	0		23.15	22.93	22.85		
10	1	51		23.05	22.83	22.67		
10	50	0		22.93	22.90	22.79		
10	1	1	16-QAM	23.02	22.91	22.72	23.87	0.2438
10	1	1	64-QAM	21.28	21.64	21.40		
10	1	1	256-QAM	19.09	18.80	18.74		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 0.85 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.92	24.01	23.80	25.02	0.3177
15	1	77		23.91	24.07	23.73		
15	36	18		23.74	23.99	23.70		
15	1	0		23.35	23.51	23.29		
15	1	78		23.39	23.48	23.22		
15	75	0		23.27	23.52	23.25		
15	1	1	QPSK	23.87	24.09	23.93		
15	1	77		23.88	24.17	23.90		
15	36	18		23.74	24.07	23.77		
15	1	0		22.84	23.05	22.80		
15	1	78		22.85	23.07	22.75		
15	75	0		22.84	23.11	22.81		
15	1	1	16-QAM	22.83	23.40	23.21	24.25	0.2661
15	1	1	64-QAM	21.49	21.22	21.04		
15	1	1	256-QAM	18.85	19.01	18.79		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 0.85 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.87	24.00	23.88	24.89	0.3083
20	1	104		23.87	23.97	23.72		
20	50	25		23.84	24.00	23.79		
20	1	0		23.44	23.47	23.40		
20	1	105		23.39	23.51	23.26		
20	100	0		23.31	23.51	23.28		
20	1	1	QPSK	23.94	24.04	23.92		
20	1	104		24.02	23.91	23.82		
20	50	25		23.87	23.96	23.79		
20	1	0		22.99	23.06	22.96		
20	1	105		22.93	22.94	22.78		
20	100	0		22.87	23.02	22.85		
20	1	1	16-QAM	23.20	22.78	22.75	24.05	0.2541
20	1	1	64-QAM	21.00	21.21	21.54		
20	1	1	256-QAM	18.90	19.10	18.85		
Limit	EIRP < 1W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = 0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	24.10	23.83	23.73	22.35	0.1718
5	1	23		23.96	23.68	23.55		
5	12	6		24.06	23.79	23.64		
5	1	0		23.54	23.26	23.28		
5	1	24		23.40	23.15	23.02		
5	25	0		23.50	23.27	23.13		
5	1	1	QPSK	24.06	23.88	23.77		
5	1	23		23.93	23.77	23.55		
5	12	6		23.98	23.76	23.63		
5	1	0		23.11	22.85	22.82		
5	1	24		22.93	22.75	22.56		
5	25	0		23.04	22.79	22.64		
5	1	1	16-QAM	23.03	23.14	23.11	21.39	0.1377
5	1	1	64-QAM	21.72	20.96	20.87		
5	1	1	256-QAM	19.32	18.92	18.83		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = 0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	24.01	23.78	23.73	22.32	0.1706
10	1	50		23.79	22.88	23.49		
10	25	12		23.80	23.84	23.70		
10	1	0		23.52	23.22	23.24		
10	1	51		23.26	22.37	23.03		
10	50	0		23.47	23.30	23.21		
10	1	1	QPSK	24.07	23.82	23.78		
10	1	50		23.81	23.75	23.53		
10	25	12		23.95	23.78	23.64		
10	1	0		23.13	22.73	22.78		
10	1	51		22.81	22.75	22.55		
10	50	0		22.95	22.81	22.65		
10	1	1	16-QAM	23.40	22.68	22.71	21.65	0.1462
10	1	1	64-QAM	21.20	21.43	21.38		
10	1	1	256-QAM	19.16	18.81	18.79		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = 0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
15	1	1	PI/2 BPSK	24.17	23.78	23.81	22.42	0.1746
15	1	77		23.86	23.76	23.55		
15	36	18		23.84	23.88	23.74		
15	1	0		23.67	23.29	23.32		
15	1	78		23.37	23.16	23.07		
15	75	0		23.43	23.32	23.13		
15	1	1	QPSK	24.11	23.96	23.87		
15	1	77		23.89	23.73	23.57		
15	36	18		23.88	23.84	23.69		
15	1	0		23.06	22.95	22.86		
15	1	78		22.89	22.72	22.61		
15	75	0		22.98	22.81	22.69		
15	1	1	16-QAM	23.03	23.28	23.17	21.53	0.1422
15	1	1	64-QAM	21.74	20.99	20.98		
15	1	1	256-QAM	19.15	19.00	18.94		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = 0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
20	1	1	PI/2 BPSK	24.03	23.81	23.89	22.39	0.1734
20	1	104		23.81	23.73	22.96		
20	50	25		23.85	23.81	23.69		
20	1	0		23.60	23.43	23.36		
20	1	105		23.31	23.21	22.37		
20	100	0		23.36	23.43	23.22		
20	1	1	QPSK	24.14	23.84	23.89		
20	1	104		23.86	23.66	23.49		
20	50	25		23.91	23.86	23.76		
20	1	0		23.08	22.84	22.87		
20	1	105		22.84	22.65	22.54		
20	100	0		22.90	22.84	22.76		
20	1	1	16-QAM	23.43	22.64	22.81	21.68	0.1472
20	1	1	64-QAM	21.36	21.47	21.51		
20	1	1	256-QAM	19.80	18.93	18.89		
Limit	ERP < 3W			Result			Pass	

NR n41_HPUE Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	22.82	23.08	22.83	25.56	0.3597
20	1	49		22.64	23.10	22.81		
20	25	12		22.78	23.15	22.91		
20	1	0		22.35	22.57	22.47		
20	1	50		22.23	22.58	22.25		
20	50	0		22.77	23.17	22.89		
20	1	1	QPSK	22.84	23.06	22.92		
20	1	49		22.64	23.14	22.82		
20	25	12		22.75	23.16	22.85		
20	1	0		22.31	22.54	22.48		
20	1	50		22.31	22.60	22.30		
20	50	0		22.76	23.00	22.92		
20	1	1	16-QAM	22.46	22.83	22.98	25.55	0.3589
20	1	1	64-QAM	22.89	23.16	22.88		
20	1	1	256-QAM	21.30	21.51	21.30		
Limit	EIRP < 2W			Result			Pass	

NR n41_HPUE Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	23.24	23.40	23.36	25.79	0.3793
30	1	76		23.16	23.36	23.35		
30	36	18		23.21	23.22	23.34		
30	1	0		22.81	22.84	22.89		
30	1	77		22.72	22.87	22.85		
30	75	0		23.21	23.29	23.38		
30	1	1	QPSK	23.33	23.32	23.37		
30	1	76		23.19	23.40	23.30		
30	36	18		23.17	23.24	23.37		
30	1	0		22.80	22.63	22.87		
30	1	77		22.69	22.89	22.79		
30	75	0		23.17	23.24	23.37		
30	1	1	16-QAM	23.06	22.90	23.35	25.74	0.3750
30	1	1	64-QAM	23.22	23.34	23.23		
30	1	1	256-QAM	21.71	21.71	21.61		
Limit	EIRP < 2W			Result			Pass	

NR n41_HPUE Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	23.15	23.51	23.39	26.07	0.4046
40	1	104		23.17	23.62	23.25		
40	50	25		23.21	23.48	23.31		
40	1	0		22.59	23.06	22.91		
40	1	105		22.64	23.12	22.79		
40	100	0		23.08	23.52	23.21		
40	1	1	QPSK	23.11	23.61	23.38		
40	1	104		23.09	23.68	23.32		
40	50	25		23.13	23.48	23.27		
40	1	0		22.57	23.03	22.93		
40	1	105		22.72	23.15	22.72		
40	100	0		23.07	23.49	23.37		
40	1	1	16-QAM	23.13	23.41	23.48	26.01	0.3990
40	1	1	64-QAM	23.18	23.62	23.51		
40	1	1	256-QAM	21.62	22.03	21.87		
Limit	EIRP < 2W			Result			Pass	

NR n41_HPUE Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	22.84	23.28	23.19	25.73	0.3741
50	1	131		23.04	23.33	23.01		
50	64	32		22.94	23.33	23.07		
50	1	0		22.36	22.79	22.69		
50	1	132		22.54	22.86	22.55		
50	128	0		22.95	23.32	23.07		
50	1	1	QPSK	22.90	23.23	23.28		
50	1	131		23.07	23.31	22.98		
50	64	32		22.88	23.34	23.31		
50	1	0		22.41	22.68	22.76		
50	1	132		22.58	22.84	22.52		
50	128	0		22.97	23.31	23.25		
50	1	1	16-QAM	22.81	23.02	23.12	25.93	0.3917
50	1	1	64-QAM	22.94	23.34	23.54		
50	1	1	256-QAM	21.46	21.68	21.84		
Limit	EIRP < 2W			Result			Pass	

NR n41_HPUE Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
60	1	1	PI/2 BPSK	22.74	23.19	23.22	25.70	0.3715
60	1	160		23.07	23.27	22.96		
60	81	40		22.80	23.28	23.04		
60	1	0		22.32	22.65	22.67		
60	1	161		22.57	22.71	22.39		
60	162	0		22.92	23.28	23.06		
60	1	1	QPSK	22.80	23.15	23.18		
60	1	160		23.07	23.31	22.96		
60	81	40		22.83	23.25	23.02		
60	1	0		22.27	22.67	22.67		
60	1	161		22.54	22.71	22.48		
60	162	0		22.91	23.28	23.04		
60	1	1	16-QAM	22.65	23.06	23.21	25.72	0.3733
60	1	1	64-QAM	22.88	23.33	23.06		
60	1	1	256-QAM	21.37	21.72	21.63		
Limit	EIRP < 2W			Result			Pass	

NR n41_HPUE Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
80	1	1	PI/2 BPSK	22.60	23.04	22.89	25.44	0.3499
80	1	215		22.67	22.91	22.61		
80	108	54		22.63	22.97	22.83		
80	1	0		22.02	22.52	22.42		
80	1	216		22.06	22.38	22.15		
80	216	0		22.60	23.03	22.87		
80	1	1	QPSK	21.97	22.99	22.95		
80	1	215		22.55	22.91	22.67		
80	108	54		22.62	23.05	22.84		
80	1	0		22.10	22.47	22.43		
80	1	216		22.05	22.39	22.13		
80	216	0		22.64	23.02	22.85		
80	1	1	16-QAM	22.48	22.75	22.73	25.54	0.3581
80	1	1	64-QAM	22.69	23.15	22.98		
80	1	1	256-QAM	21.88	21.48	21.56		
Limit	EIRP < 2W			Result			Pass	

NR n41_HPUE Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1	PI/2 BPSK	22.58	23.05	22.87	25.49	0.3540
100	1	271		22.38	22.95	22.57		
100	135	67		22.62	23.01	22.91		
100	1	0		22.08	22.55	22.34		
100	1	272		21.79	22.38	22.12		
100	270	0		22.45	22.96	22.85		
100	1	1	QPSK	22.53	23.10	22.89		
100	1	271		22.29	22.93	22.63		
100	135	67		22.61	23.07	22.92		
100	1	0		21.96	22.65	22.38		
100	1	272		21.81	22.44	22.15		
100	270	0		22.64	22.96	22.89		
100	1	1	16-QAM	22.38	22.94	22.85	25.50	0.3548
100	1	1	64-QAM	22.71	23.11	22.87		
100	1	1	256-QAM	20.99	21.61	21.40		
Limit	EIRP < 2W			Result			Pass	

<MIMO Mode>

NR n41 Maximum Average Power [dBm], DG = 4.63 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	19.84	20.61	20.47	20.17	20.22	20.03	23.02	23.43	23.27	28.06	0.6397
20	1	49		19.77	20.57	20.24	20.16	20.23	20.06	22.98	23.41	23.16		
20	25	12		19.67	20.60	20.31	20.19	20.16	20.03	22.95	23.40	23.18		
20	1	0		19.35	20.04	20.04	19.86	19.61	19.57	22.62	22.84	22.82		
20	1	50		19.22	20.30	19.93	19.67	19.57	19.70	22.46	22.96	22.83		
20	51	0		19.82	20.57	20.29	20.14	20.16	19.93	22.99	23.38	23.12		
20	1	1	16-QAM	20.06	20.65	20.46	20.24	20.53	20.21	23.16	23.60	23.35	28.23	0.6653
20	1	1	64-QAM	19.19	19.83	19.78	19.78	19.72	19.56	22.51	22.79	22.68		
20	1	1	256-QAM	16.56	17.16	16.88	16.64	16.52	16.40	19.61	19.86	19.66		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 4.63 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	20.48	20.93	20.93	20.68	20.52	20.43	23.59	23.74	23.70	28.37	0.6871
30	1	76		20.36	20.44	20.62	20.60	20.53	20.68	23.49	23.50	23.66		
30	39	19		20.19	20.47	20.81	20.59	20.54	20.52	23.40	23.52	23.68		
30	1	0		19.94	20.43	20.47	20.22	20.05	20.05	23.09	23.25	23.28		
30	1	77		19.87	20.59	20.50	20.17	20.01	20.22	23.03	23.32	23.37		
30	78	0		20.11	20.82	20.82	20.53	20.51	20.58	23.34	23.68	23.71		
30	1	1	16-QAM	20.34	20.86	20.94	20.76	20.62	20.48	23.57	23.75	23.73	28.38	0.6887
30	1	1	64-QAM	19.51	20.05	20.20	20.06	19.97	19.88	22.80	23.02	23.05		
30	1	1	256-QAM	16.78	17.47	17.43	17.07	16.82	16.83	19.94	20.17	20.15		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 4.63 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	20.00	20.92	20.96	20.46	20.59	20.45	23.25	23.77	23.72	28.49	0.7063
40	1	104		20.26	21.20	20.15	20.56	20.46	20.62	23.42	23.86	23.40		
40	53	26		20.13	20.87	20.67	20.37	20.43	20.30	23.26	23.67	23.50		
40	1	0		19.67	20.20	20.49	20.10	20.05	19.92	22.90	23.14	23.22		
40	1	105		19.65	20.55	20.33	19.90	19.92	19.95	22.79	23.26	23.15		
40	106	0		20.13	20.89	20.79	20.48	20.56	20.46	23.32	23.74	23.64		
40	1	1	16-QAM	20.10	20.85	21.08	20.78	20.71	20.40	23.46	23.79	23.76	28.42	0.6950
40	1	1	64-QAM	19.45	20.06	20.22	20.03	19.98	19.83	22.76	23.03	23.04		
40	1	1	256-QAM	16.81	17.35	17.46	17.01	16.95	16.84	19.92	20.16	20.17		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 4.63 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	21.52	22.06	22.20	21.71	21.63	21.54	24.63	24.86	24.89	29.63	0.9183
50	1	131		21.70	22.40	22.10	21.64	21.54	20.94	24.68	25.00	24.57		
50	67	33		21.43	22.13	22.07	21.77	21.56	21.62	24.61	24.86	24.86		
50	1	0		19.42	19.99	20.25	19.87	19.67	19.56	22.66	22.84	22.93		
50	1	132		19.66	20.26	20.02	19.78	19.60	19.78	22.73	22.95	22.91		
50	133	0		19.96	20.61	20.53	20.24	20.15	20.15	23.11	23.40	23.35		
50	1	1	16-QAM	21.00	21.62	21.76	21.20	21.14	21.12	24.11	24.40	24.46	29.09	0.8110
50	1	1	64-QAM	19.19	19.80	19.97	19.61	19.62	19.48	22.42	22.72	22.74		
50	1	1	256-QAM	16.44	17.11	17.17	16.58	16.63	16.44	19.52	19.89	19.83		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 4.63 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	21.54	21.97	22.23	21.73	21.58	21.47	24.65	24.79	24.88	29.66	0.9247
60	1	160		21.88	22.39	22.09	21.68	21.61	21.08	24.79	25.03	24.62		
60	81	40		21.52	22.14	21.99	21.79	21.62	21.52	24.67	24.90	24.77		
60	1	0		19.53	19.91	20.17	19.93	19.68	19.40	22.74	22.81	22.81		
60	1	161		19.85	20.23	20.08	19.78	19.60	19.64	22.83	22.94	22.88		
60	162	0		20.06	20.66	20.61	20.24	20.20	20.05	23.16	23.45	23.35		
60	1	1	16-QAM	21.05	21.32	21.84	21.27	21.13	21.04	24.17	24.24	24.47	29.10	0.8128
60	1	1	64-QAM	19.29	19.63	20.00	19.63	19.57	19.37	22.47	22.61	22.71		
60	1	1	256-QAM	16.58	16.92	17.33	16.69	16.50	16.33	19.65	19.73	19.87		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 4.63 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	21.42	21.40	21.53	21.76	21.09	20.67	24.60	24.26	24.13	29.23	0.8375
80	1	215		21.58	21.33	21.16	21.46	20.77	20.94	24.53	24.07	24.06		
80	109	54		21.29	21.50	21.41	21.62	20.96	20.82	24.47	24.25	24.14		
80	1	0		19.74	19.28	19.41	19.76	19.06	18.66	22.76	22.18	22.06		
80	1	216		19.75	19.45	19.16	19.49	18.80	18.91	22.63	22.15	22.05		
80	217	0		19.84	19.97	19.90	20.95	19.46	19.37	23.44	22.73	22.65		
80	1	1	16-QAM	21.06	20.65	21.04	21.37	20.62	20.46	24.23	23.65	23.77	28.86	0.7691
80	1	1	64-QAM	19.19	19.16	19.21	19.52	18.94	18.71	22.37	22.06	21.98		
80	1	1	256-QAM	16.74	16.38	16.50	16.55	15.93	15.70	19.66	19.17	19.13		
Limit	EIRP < 2W			Result									Pass	

NR n41 Maximum Average Power [dBm], DG = 4.63 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	21.19	21.36	21.43	21.38	21.12	20.73	24.30	24.25	24.10	29.04	0.8017
100	1	271		21.17	21.55	19.24	21.13	20.85	18.91	24.16	24.22	22.09		
100	137	68		21.32	21.55	21.47	21.48	20.99	20.83	24.41	24.29	24.17		
100	1	0		19.16	19.27	19.55	19.55	19.20	18.87	22.37	22.25	22.23		
100	1	272		16.42	19.67	19.43	19.40	18.75	18.94	21.17	22.24	22.20		
100	273	0		19.71	19.99	19.97	19.99	19.51	19.39	22.86	22.77	22.70		
100	1	1	16-QAM	20.89	20.54	20.87	21.02	20.78	20.30	23.97	23.67	23.60	28.60	0.7244
100	1	1	64-QAM	19.19	19.18	19.13	19.51	18.95	18.74	22.36	22.08	21.95		
100	1	1	256-QAM	16.42	16.43	16.44	16.42	15.96	15.74	19.43	19.21	19.11		
Limit	EIRP < 2W			Result									Pass	

Appendix B. Test Results of Radiated Test

5G NR n5A

5G NR n5A / 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1650	-54.44	-13	-41.44	-64.1	-60.04	0.92	8.67	H
	2475	-38.72	-13	-25.72	-52.66	-46.09	1.14	10.67	H
	3300	-55.88	-13	-42.88	-71.94	-64.43	1.32	12.02	H
									H
									H
									H
	1650	-53.56	-13	-40.56	-62.68	-59.16	0.92	8.67	V
	2475	-44.29	-13	-31.29	-58.39	-51.66	1.14	10.67	V
	3300	-55.08	-13	-42.08	-71.6	-63.63	1.32	12.02	V
									V
									V
									V
Middle	1655	-56.24	-13	-43.24	-65.9	-61.86	0.92	8.69	H
	2483	-47.49	-13	-34.49	-61.44	-54.87	1.15	10.68	H
	3311	-54.93	-13	-41.93	-70.97	-63.50	1.33	12.05	H
									H
									H
									H
	1655	-55.08	-13	-42.08	-64.18	-60.70	0.92	8.69	V
	2483	-52.86	-13	-39.86	-66.99	-60.24	1.15	10.68	V
	3311	-54.56	-13	-41.56	-71.07	-63.13	1.33	12.05	V
									V
									V
									V

Highest	1660	-52.46	-13	-39.46	-62.14	-58.09	0.92	8.71	H
	2490	-38.63	-13	-25.63	-52.59	-46.02	1.15	10.69	H
	3320	-55.41	-13	-42.41	-71.43	-64.00	1.33	12.07	H
									H
									H
									H
	1660	-52.18	-13	-39.18	-61.28	-57.81	0.92	8.71	V
	2490	-39.39	-13	-26.39	-53.54	-46.78	1.15	10.69	V
	3320	-54.68	-13	-41.68	-71.16	-63.27	1.33	12.07	V
									V
									V
									V

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

5G NR n2A

5G NR n2A / 20MHz / PI/2 BPSK									
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)
Lowest	3702	-51.60	-13	-38.60	-70.16	-62.81	1.41	12.62	H
	5554	-49.22	-13	-36.22	-72.11	-60.78	1.74	13.30	H
	7404	-44.88	-13	-31.88	-71.86	-54.20	1.94	11.25	H
									H
									H
									H
	3702	-50.45	-13	-37.45	-69.16	-61.66	1.41	12.62	V
	5554	-49.43	-13	-36.43	-71.86	-60.99	1.74	13.30	V
	7404	-44.76	-13	-31.76	-71.59	-54.08	1.94	11.25	V
									V
									V
									V
Middle	3744	-52.12	-13	-39.12	-70.78	-63.34	1.42	12.65	H
	5610	-44.91	-13	-31.91	-67.72	-56.47	1.74	13.30	H
	7488	-45.27	-13	-32.27	-71.89	-54.41	1.98	11.12	H
									H
									H
									H
	3744	-52.19	-13	-39.19	-71.05	-63.41	1.42	12.65	V
	5610	-43.12	-13	-30.12	-65.61	-54.68	1.74	13.30	V
	7488	-45.23	-13	-32.23	-71.81	-54.37	1.98	11.12	V
									V
									V
									V

Highest	3783	-50.77	-13	-37.77	-69.5	-62.01	1.43	12.67	H
	5674	-48.53	-13	-35.53	-71.66	-60.10	1.73	13.30	H
	7566	-45.34	-13	-32.34	-71.58	-54.45	2.00	11.11	H
									H
									H
									H
	3780	-49.62	-13	-36.62	-68.6	-60.86	1.43	12.67	V
	5674	-49.09	-13	-36.09	-71.71	-60.66	1.73	13.30	V
	7566	-45.86	-13	-32.86	-72.05	-54.97	2.00	11.11	V
									V
									V
									V

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

5G NR n25A

5G NR n25A / 20MHz / PI/2 BPSK									
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)
Lowest	3702	-51.32	-13	-38.32	-69.88	-62.53	1.41	12.62	H
	5553	-49.23	-13	-36.23	-72.12	-60.79	1.74	13.30	H
	7405	-44.81	-13	-31.81	-71.79	-54.12	1.94	11.25	H
									H
									H
									H
	3702	-50.29	-13	-37.29	-69	-61.50	1.41	12.62	V
	5553	-49.53	-13	-36.53	-71.96	-61.09	1.74	13.30	V
	7405	-45.07	-13	-32.07	-71.9	-54.38	1.94	11.25	V
									V
									V
									V
Middle	3744	-52.48	-13	-39.48	-71.14	-63.70	1.42	12.65	H
	5621	-47.48	-13	-34.48	-70.35	-59.04	1.74	13.30	H
	7494	-45.07	-13	-32.07	-71.66	-54.19	1.99	11.11	H
									H
									H
									H
	3744	-51.58	-13	-38.58	-70.44	-62.80	1.42	12.65	V
	5621	-47.61	-13	-34.61	-70.11	-59.17	1.74	13.30	V
	7494	-45.43	-13	-32.43	-71.99	-54.55	1.99	11.11	V
									V
									V
									V

Highest	3792	-51.42	-13	-38.42	-70.19	-61.62	2.02	12.22	H
	5688	-46.67	-13	-33.67	-69.85	-57.02	2.11	12.46	H
	7585	-45.72	-13	-32.72	-71.86	-53.91	2.11	10.31	H
									H
									H
									H
	3792	-50.41	-13	-37.41	-69.44	-60.61	2.02	12.22	V
	5688	-46.75	-13	-33.75	-69.4	-57.10	2.11	12.46	V
	7585	-46.28	-13	-33.28	-72.38	-54.47	2.11	10.31	V
									V
									V
									V

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

5G NR n66A

5G NR n66A / 20MHz / PI/2 BPSK									
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)
Lowest	3420	-50.30	-13	-37.30	-67.11	-61.26	1.35	12.31	H
	5135	-49.92	-13	-36.92	-71.49	-61.06	1.65	12.79	H
	6850	-46.66	-13	-33.66	-72.11	-57.03	1.74	12.11	H
									H
									H
									H
	3420	-48.52	-13	-35.52	-65.75	-59.48	1.35	12.31	V
	5135	-47.60	-13	-34.60	-68.92	-58.74	1.65	12.79	V
	6850	-47.16	-13	-34.16	-72.21	-57.53	1.74	12.11	V
									V
									V
									V
Middle	3455	-49.23	-13	-36.23	-66.4	-60.27	1.35	12.39	H
	5182	-50.47	-13	-37.47	-72.06	-61.67	1.66	12.85	H
	6909	-46.23	-13	-33.23	-71.98	-56.52	1.73	12.03	H
									H
									H
									H
	3455	-49.84	-13	-36.84	-67.4	-60.88	1.35	12.39	V
	5182	-50.47	-13	-37.47	-71.88	-61.67	1.66	12.85	V
	6909	-46.72	-13	-33.72	-72.02	-57.01	1.73	12.03	V
									V
									V
									V

Highest	3483	-50.13	-13	-37.13	-67.6	-61.23	1.36	12.46	H
	5227	-50.22	-13	-37.22	-71.93	-61.47	1.67	12.92	H
	6969	-45.98	-13	-32.98	-72.05	-56.20	1.72	11.94	H
									H
									H
									H
	3483	-49.78	-13	-36.78	-67.62	-60.89	1.36	12.46	V
	5227	-48.60	-13	-35.60	-70.12	-59.85	1.67	12.92	V
	6969	-46.31	-13	-33.31	-71.9	-56.53	1.72	11.94	V
									V
									V
									V

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

5G NR n12A

5G NR n12A / 15MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-54.12	-13.00	-41.12	-65.05	-58.77	0.84	7.64	H
	2100	-56.60	-13.00	-43.60	-70.14	-63.53	1.06	10.14	H
	2800	-55.86	-13.00	-42.86	-70.68	-63.55	1.22	11.06	H
									H
									H
									H
	1400	-53.17	-13.00	-40.17	-62.87	-57.82	0.84	7.64	V
	2100	-57.94	-13.00	-44.94	-70.44	-64.87	1.06	10.14	V
	2800	-55.82	-13.00	-42.82	-70.58	-63.51	1.22	11.06	V
									V
									V
									V
Middle	1402	-54.18	-13.00	-41.18	-65.10	-58.83	0.84	7.65	H
	2103	-55.70	-13.00	-42.70	-69.29	-62.63	1.06	10.14	H
	2808	-55.79	-13.00	-42.79	-70.65	-63.49	1.22	11.07	H
									H
									H
									H
	1402	-53.96	-13.00	-40.96	-63.66	-58.61	0.84	7.65	V
	2103	-57.84	-13.00	-44.84	-70.32	-64.77	1.06	10.14	V
	2808	-55.67	-13.00	-42.67	-70.48	-63.37	1.22	11.07	V
									V
									V
									V

Highest	1404	-52.72	-13.00	-39.72	-63.63	-57.38	0.85	7.66	H
	2106	-54.97	-13.00	-41.97	-68.58	-61.91	1.06	10.15	H
	2808	-55.55	-13.00	-42.55	-70.41	-63.25	1.22	11.07	H
									H
									H
									H
	1404	-53.30	-13.00	-40.30	-62.99	-57.96	0.85	7.66	V
	2106	-57.33	-13.00	-44.33	-69.86	-64.27	1.06	10.15	V
	2808	-55.72	-13.00	-42.72	-70.53	-63.42	1.22	11.07	V
									V
									V
									V

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

5G NR n7A

5G NR n7A / 20MHz / PI/2 BPSK									
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)
Lowest	5004	-49.95	-13	-36.95	-71.46	-60.94	1.61	12.61	H
	7500	-45.49	-13	-32.49	-72.06	-54.60	1.99	11.10	H
	10008	-42.35	-13	-29.35	-71.31	-51.24	2.40	11.29	H
									H
									H
									H
	5002	-49.96	-13	-36.96	-71.03	-60.95	1.61	12.60	V
	7500	-45.13	-13	-32.13	-71.67	-54.24	1.99	11.10	V
	10008	-41.67	-13	-28.67	-71.41	-50.56	2.40	11.29	V
									V
									V
									V
Middle	5052	-49.73	-13	-36.73	-71.27	-60.78	1.62	12.67	H
	7578	-45.93	-13	-32.93	-72.1	-55.04	2.00	11.12	H
	10107	-42.19	-13	-29.19	-71.46	-51.01	2.40	11.21	H
									H
									H
									H
	5052	-50.26	-13	-37.26	-71.42	-61.31	1.62	12.67	V
	7578	-45.56	-13	-32.56	-71.69	-54.67	2.00	11.12	V
	10107	-41.60	-13	-28.60	-71.44	-50.42	2.40	11.21	V
									V
									V
									V

Highest	5100	-49.92	-13	-36.92	-71.48	-61.02	1.64	12.74	H
	7653	-45.78	-13	-32.78	-71.86	-54.90	2.01	11.13	H
	10206	-42.16	-13	-29.16	-71.74	-50.90	2.40	11.14	H
									H
									H
									H
	5100	-50.33	-13	-37.33	-71.59	-61.43	1.64	12.74	V
	7653	-46.02	-13	-33.02	-71.98	-55.14	2.01	11.13	V
	10206	-41.96	-13	-28.96	-71.89	-50.70	2.40	11.14	V
									V
									V
									V

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

5G NR n41A

5G NR n41A / 20MHz / PI/2 BPSK									
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)
Lowest	4992	-49.65	-13	-36.65	-71.14	-60.64	1.61	12.60	H
	7488	-45.53	-13	-32.53	-72.15	-54.67	1.98	11.12	H
	9990	-42.04	-13	-29.04	-71.02	-50.95	2.40	11.30	H
									H
									H
									H
	4992	-49.80	-13	-36.80	-70.83	-60.79	1.61	12.60	V
	7488	-45.41	-13	-32.41	-71.99	-54.55	1.98	11.12	V
	9990	-41.36	-13	-28.36	-71.11	-50.27	2.40	11.30	V
									V
									V
									V
Middle	5166	-50.32	-13	-37.32	-71.91	-61.50	1.65	12.83	H
	7752	-45.75	-13	-32.75	-71.85	-54.88	2.03	11.15	H
	10341	-41.24	-13	-28.24	-71.25	-49.87	2.39	11.03	H
									H
									H
									H
	5166	-50.47	-13	-37.47	-71.85	-61.65	1.65	12.83	V
	7752	-45.76	-13	-32.76	-71.62	-54.89	2.03	11.15	V
	10341	-41.42	-13	-28.42	-71.48	-50.05	2.39	11.03	V
									V
									V
									V
									V

Highest	5340	-49.80	-13	-36.80	-71.95	-61.18	1.70	13.08	H
	8013	-44.03	-13	-31.03	-71.49	-53.20	2.06	11.23	H
	10683	-40.62	-13	-27.62	-71.46	-49.03	2.49	10.90	H
									H
									H
									H
	5340	-50.58	-13	-37.58	-72.39	-61.96	1.70	13.08	V
	8013	-44.17	-13	-31.17	-71.53	-53.34	2.06	11.23	V
	10683	-41.18	-13	-28.18	-71.78	-49.59	2.49	10.90	V
									V
									V
									V

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

5G NR n71A

5G NR n71A / 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-53.09	-13	-40.09	-63.72	-59.57	0.83	7.31	H
	1992	-51.50	-13	-38.50	-63.32	-60.43	1.04	9.97	H
	2656	-56.07	-13	-43.07	-70.29	-65.77	1.19	10.89	H
									H
									H
									H
	1328	-54.85	-13	-41.85	-64.64	-61.33	0.83	7.31	V
	1992	-51.21	-13	-38.21	-62.06	-60.14	1.04	9.97	V
	2656	-56.59	-13	-43.59	-70.78	-66.29	1.19	10.89	V
									V
									V
									V
Middle	1344	-56.30	-13	-43.30	-67	-62.85	0.83	7.38	H
	2016	-53.09	-13	-40.09	-65.26	-62.07	1.04	10.02	H
	2688	-55.50	-13	-42.50	-69.85	-65.23	1.20	10.93	H
									H
									H
									H
	1344	-59.33	-13	-46.33	-69.1	-65.88	0.83	7.38	V
	2016	-53.28	-13	-40.28	-64.45	-62.26	1.04	10.02	V
	2688	-56.21	-13	-43.21	-70.52	-65.94	1.20	10.93	V
									V
									V
									V

Highest	1360	-51.77	-13	-38.77	-62.53	-58.39	0.83	7.46	H
	2040	-56.57	-13	-43.57	-69.13	-65.58	1.05	10.06	H
	2720	-56.55	-13	-43.55	-71.03	-66.31	1.20	10.96	H
									H
									H
									H
	1360	-55.30	-13	-42.30	-65.05	-61.92	0.83	7.46	V
	2040	-58.79	-13	-45.79	-70.32	-67.80	1.05	10.06	V
	2720	-56.58	-13	-43.58	-71.01	-66.34	1.20	10.96	V
									V
									V
									V

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