



FCC RADIO TEST REPORT

FCC ID : A4RG025I
Equipment : Phone
Model Name : G025I, G025H
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2, 22(H)

The product was received on May 13, 2020 and testing was started from May 25, 2020 and completed on Jul. 02, 2020. 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 variant 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

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG022521-04C	01	Initial issue of report	Jul. 09, 2020
FG022521-04C	02	Revising the remark description in summary.	Jul. 23, 2020

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	
-	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Not Required	-
-	§2.1049	Occupied Bandwidth	Not Required	-
-	§2.1051 §22.917 (a)	Conducted Band Edge Measurement (n5)	Not Required	-
-	§2.1051 §22.917 (a)	Conducted Spurious Emission (n5)	Not Required	-
-	§2.1055 §22.355	Frequency Stability Temperature & Voltage	Not Required	-
4.2	§2.1053 §22.917 (a)	Radiated Spurious Emission (n5)	Pass	Under limit 35.25 dB at 3306.000 MHz for Primary Antenna Under limit 34.33 dB at 3306.000 MHz for ASDIV Antenna

Remark:

- Not required means after assessing, test items are not necessary to carry out.
- This is a variant report which can be referred Product Equality Declaration. After spot-checking the tests, the parent test results were worse than variant test results, thus this test report was reuse parent test data, all the test cases were performed on original report which can be referred to Sporton Report Number FG022521-02C.

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: Wii Chang

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
Model Name	G025I, G025H
FCC ID	A4RG025I
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

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

EUT Information List	
S/N	Performed Test Item
04271FQCB00019	Conducted Measurement ERP
04241FQCB00338	Radiated Spurious Emission

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n5: 826.5 MHz ~ 846.5 MHz
Rx Frequency	5G NR n5: 871.5 MHz ~ 891.5 MHz
Bandwidth	5G NR n5: 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna <DFT-s-OFDM>	<Primary Antenna> <Ant. 0> 5G NR n5 : 23.85 dBm <ASDIV Antenna> <Ant. 1> 5G NR n5 : 23.80 dBm
Maximum Output Power to Antenna <CP-OFDM >	<Primary Antenna> <Ant. 0> 5G NR n5 : 22.13 dBm <ASDIV Antenna> <Ant. 1> 5G NR n5 : 22.11 dBm
Antenna Type	<Primary Antenna>: PIFA Antenna type <ASDIV Antenna>: PIFA Antenna type
Type of Modulation	PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

<Primary Antenna>

Radio Tech	Band Number	Antenna name	Gain
5G NR	n5	ANT0	-2.8

<ASDIV Antenna>

Radio Tech	Band Number	Antenna name	Gain
5G NR	n5	ANT1	-3.5

1.3 Modification of EUT

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

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	03CH07-HY
Test Engineer	Peter Liao	Jesse Wang and Ken Wu
Temperature	22~24°C	23~25°C
Relative Humidity	51~55%	53~56%

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

FCC Designation No.: TW1190



1.5 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)
- ♦ 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

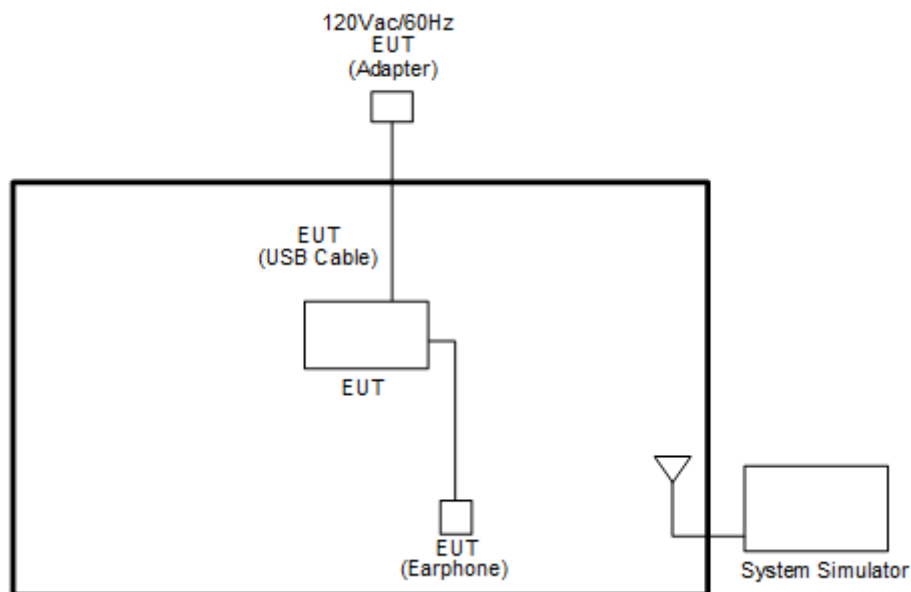
2.1 Test Mode

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, pre-scanned in three orthogonal panels, X, Y, Z and Accessory. The worst cases (Primary Antenna: Z Plane; ASDIV Antenna: Z Plane) were recorded in this report.

Test Items	NR Band	Bandwidth (MHz)						Modulation					RB #			Test Channel			
		5	10	15	20	40	50	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
Max. Output Power	n5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v	
E.R.P	n5	v	v	v	v	-	-	v	v	v	v	v	v			v	v	v	
Radiated Spurious Emission	n5	Worst Case																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. Test combination is EN-DC 7A-n5A. 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. 6. All the radiated test cases were performed with Adapter 1 and USB Cable 1.																		

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Keysight	UXM 7515	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

5G NR Band 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

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

3.2.1 Description of the Conducted Output Power Measurement and ERP 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

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

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.

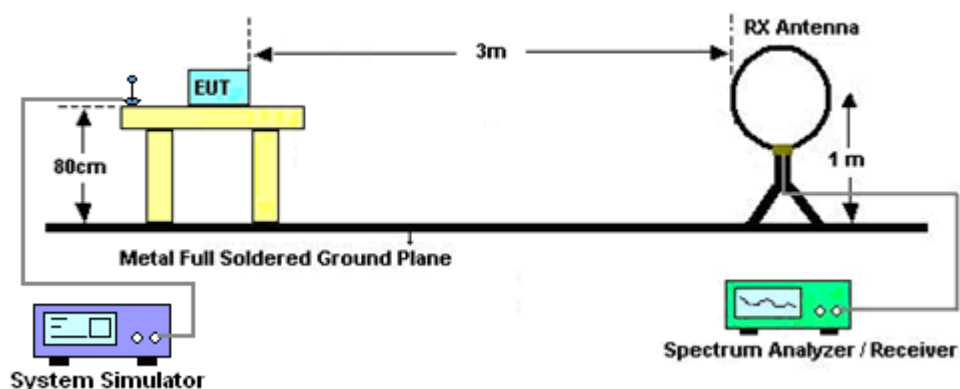
4 Radiated Test Items

4.1 Measuring Instruments

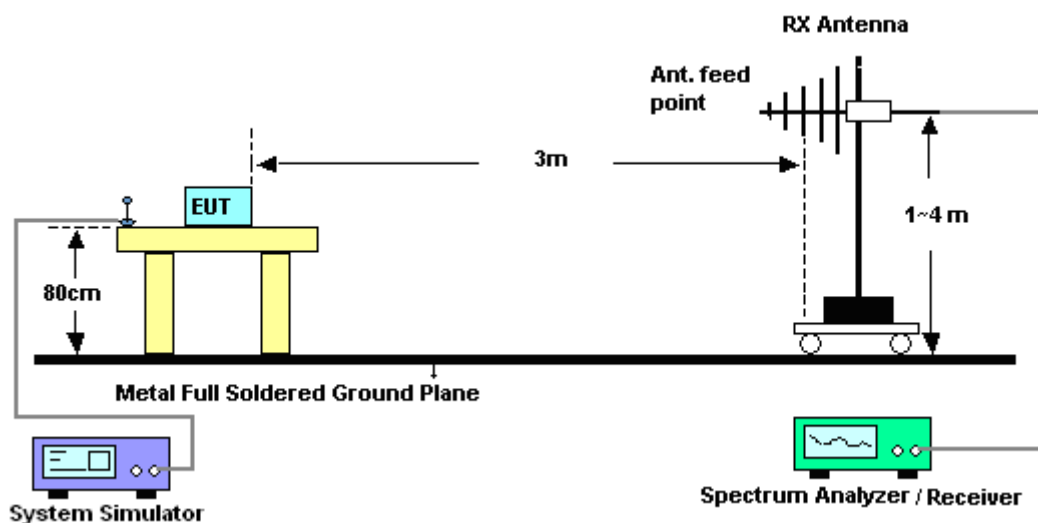
See list of measuring instruments of this test report.

4.1.1 Test Setup

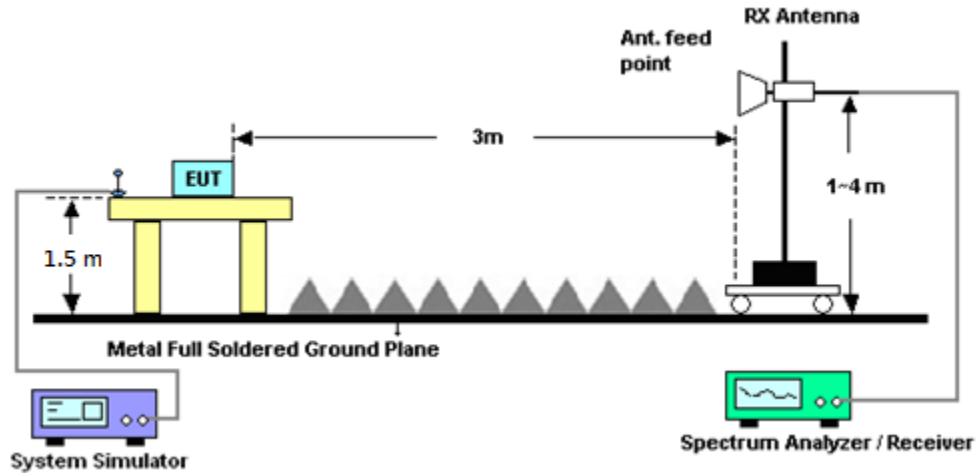
For radiated emissions below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



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 a comparison data 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.

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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$

$ERP \text{ (dBm)} = EIRP - 2.15$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
DC Power Supply	GW Instek	GPE2323	GET910884	0V~64V ; 0A~6A	N/A	May 25, 2020~ Jul. 01, 2020	N/A	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	May 25, 2020~ Jul. 01, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 02, 2019	May 25, 2020~ Jul. 01, 2020	Sep. 01, 2020	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8821C	6262044657	LTE(FDD)	Jan. 16, 2020	May 25, 2020~ Jul. 01, 2020	Jan. 15, 2021	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8000A	6262012917	5GNR	Jan. 20, 2020	May 25, 2020~ Jul. 01, 2020	Jan. 19, 2021	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Jul. 02, 2020	Apr. 28, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Jul. 02, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	May 21, 2020	Jul. 02, 2020	May 20, 2021	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 19, 2020	Jul. 02, 2020	May 18, 2021	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 01, 2019	Jul. 02, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,80 1606/2	18GHz~40GHz	Feb. 25, 2020	Jul. 02, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Jul. 02, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 25, 2020	Jul. 02, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Jul. 02, 2020	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF78020836 8	Control Ant Mast	N/A	Jul. 02, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jul. 02, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jul. 02, 2020	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	N/A	Jul. 02, 2020	N/A	Radiation (03CH07-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Feb. 10, 2020	Jul. 02, 2020	Feb. 09, 2021	Radiation (03CH07-HY)
Horn Antenna	EMCO	3117	00143261	1GHz~18GHz	Jan. 10, 2020	Jul. 02, 2020	Jan. 09, 2021	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 26, 2019	Jul. 02, 2020	Nov. 25, 2020	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Jul. 02, 2020	Dec. 12, 2020	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Jul. 02, 2020	N/A	Radiation (03CH07-HY)
Signal Generator	Anritsu	MG3710A	6261943042	2G / 3G / LTE / 5G FR1	N/A	Jul. 02, 2020	N/A	Radiation (03CH07-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.23
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.63
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.70
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

<Primary Antenna>

<DFT-s-OFDM>

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	23.77	23.76	23.74
5	1	23		23.30	23.52	23.47
5	12	6		23.72	23.69	23.66
5	1	0		22.92	23.14	23.06
5	1	24		23.26	23.16	23.27
5	25	0		22.95	22.74	22.91
5	1	1	QPSK	23.67	23.30	23.45
5	1	23		23.25	23.39	23.34
5	12	6		23.57	23.67	23.45
5	1	0		22.69	22.57	22.66
5	1	24		22.62	22.46	22.53
5	25	0		22.61	22.36	22.83
5	1	1	16-QAM	22.76	22.60	22.67
5	1	1	64-QAM	20.99	20.62	20.80
5	1	1	256-QAM	18.50	18.82	18.63

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	23.79	23.78	23.77
10	1	50		23.56	23.41	23.36
10	25	12		23.58	23.75	23.64
10	1	0		22.97	23.13	22.90
10	1	51		22.96	22.98	23.29
10	50	0		22.80	22.50	22.54
10	1	1	QPSK	23.52	23.65	23.61
10	1	50		23.30	23.52	23.00
10	25	12		23.66	23.65	23.57
10	1	0		22.66	22.82	22.77
10	1	51		22.54	22.43	22.39
10	50	0		22.84	22.73	22.66
10	1	1	16-QAM	22.48	22.73	22.43
10	1	1	64-QAM	21.03	20.85	20.55
10	1	1	256-QAM	18.56	18.99	18.75



NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	23.66	23.77	23.79
15	1	77		23.31	23.49	23.58
15	36	18		23.77	23.79	23.64
15	1	0		22.92	22.96	22.79
15	1	78		23.11	23.16	22.95
15	75	0		22.70	22.44	22.87
15	1	1	QPSK	23.72	23.58	23.52
15	1	77		23.34	23.61	23.14
15	36	18		23.75	23.36	23.71
15	1	0		22.44	22.52	22.72
15	1	78		22.62	22.29	22.56
15	75	0		22.49	22.69	22.67
15	1	1	16-QAM	22.46	22.52	22.56
15	1	1	64-QAM	21.09	20.83	20.49
15	1	1	256-QAM	18.48	18.92	18.44

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	23.84	23.85	23.81
20	1	104		23.50	23.45	23.46
20	50	25		23.75	23.80	23.67
20	1	0		22.94	23.00	22.91
20	1	105		23.13	23.10	23.11
20	100	0		22.75	22.60	22.71
20	1	1	QPSK	23.62	23.50	23.63
20	1	104		23.38	23.49	23.20
20	50	25		23.70	23.55	23.61
20	1	0		22.52	22.67	22.77
20	1	105		22.66	22.41	22.50
20	100	0		22.65	22.55	22.76
20	1	1	16-QAM	22.62	22.56	22.60
20	1	1	64-QAM	20.90	20.76	20.66
20	1	1	256-QAM	18.66	18.96	18.60

**<CP-OFDM>**

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	21.75	22.10	21.99
5	1	1	16-QAM	21.67	21.69	21.63
5	1	1	64-QAM	20.07	21.30	21.18
5	1	1	256-QAM	16.66	16.70	16.54

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	21.80	22.12	21.78
10	1	1	16-QAM	21.52	21.75	21.42
10	1	1	64-QAM	20.11	21.02	21.01
10	1	1	256-QAM	16.50	16.47	16.37

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	22.02	21.94	21.81
15	1	1	16-QAM	21.70	21.96	21.73
15	1	1	64-QAM	19.71	21.24	20.98
15	1	1	256-QAM	16.72	16.66	16.32

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	21.87	22.13	21.98
20	1	1	16-QAM	21.67	21.78	21.57
20	1	1	64-QAM	19.91	21.12	21.13
20	1	1	256-QAM	16.61	16.50	16.41



<ASDIV Antenna>

<DFT-s-OFDM>

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	PI/2 BPSK	23.58	23.62	23.59
5	1	23		23.14	23.20	23.25
5	12	6		23.64	23.61	23.64
5	1	0		22.79	22.84	22.65
5	1	24		22.92	23.02	22.84
5	25	0		22.66	22.40	22.60
5	1	1	QPSK	23.41	23.24	23.39
5	1	23		23.29	23.30	23.05
5	12	6		23.39	23.24	23.38
5	1	0		22.37	22.63	22.65
5	1	24		22.50	22.10	22.41
5	25	0		22.58	22.49	22.45
5	1	1	16-QAM	22.26	22.39	22.37
5	1	1	64-QAM	20.59	20.47	20.44
5	1	1	256-QAM	18.55	18.84	18.41

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	PI/2 BPSK	23.56	23.72	23.71
10	1	50		23.31	23.25	23.31
10	25	12		23.72	23.68	23.59
10	1	0		22.79	22.97	22.72
10	1	51		22.79	22.89	22.83
10	50	0		22.60	22.34	22.60
10	1	1	QPSK	23.61	23.33	23.27
10	1	50		23.13	23.22	22.90
10	25	12		23.46	23.27	23.52
10	1	0		22.23	22.61	22.70
10	1	51		22.46	22.16	22.37
10	50	0		22.49	22.37	22.50
10	1	1	16-QAM	22.36	22.31	22.35
10	1	1	64-QAM	20.58	20.58	20.45
10	1	1	256-QAM	18.48	18.85	18.55



NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	PI/2 BPSK	23.63	23.63	23.77
15	1	77		23.19	23.15	23.39
15	36	18		23.70	23.78	23.61
15	1	0		22.65	23.00	22.64
15	1	78		22.92	22.86	22.84
15	75	0		22.67	22.32	22.49
15	1	1	QPSK	23.50	23.38	23.30
15	1	77		23.16	23.28	22.89
15	36	18		23.51	23.15	23.51
15	1	0		22.38	22.65	22.65
15	1	78		22.58	22.14	22.39
15	75	0		22.54	22.52	22.50
15	1	1	16-QAM	22.36	22.28	22.27
15	1	1	64-QAM	20.71	20.46	20.44
15	1	1	256-QAM	18.53	18.87	18.36

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	PI/2 BPSK	23.75	23.80	23.77
20	1	104		23.32	23.32	23.39
20	50	25		23.75	23.79	23.64
20	1	0		22.79	23.00	22.73
20	1	105		22.99	23.04	22.99
20	100	0		22.69	22.42	22.66
20	1	1	QPSK	23.61	23.39	23.47
20	1	104		23.30	23.36	23.05
20	50	25		23.59	23.35	23.56
20	1	0		22.38	22.67	22.73
20	1	105		22.63	22.27	22.41
20	100	0		22.60	22.52	22.63
20	1	1	16-QAM	22.46	22.39	22.41
20	1	1	64-QAM	20.73	20.59	20.63
20	1	1	256-QAM	18.62	18.93	18.56

**<CP-OFDM>**

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	1	QPSK	21.68	21.97	21.96
5	1	1	16-QAM	21.57	21.55	21.38
5	1	1	64-QAM	19.79	20.94	20.84
5	1	1	256-QAM	16.45	16.33	16.31

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	1	QPSK	21.62	22.02	21.83
10	1	1	16-QAM	21.47	21.61	21.44
10	1	1	64-QAM	19.67	20.94	20.78
10	1	1	256-QAM	16.44	16.35	16.27

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	1	QPSK	21.57	22.02	21.87
15	1	1	16-QAM	21.59	21.64	21.57
15	1	1	64-QAM	19.84	20.98	20.81
15	1	1	256-QAM	16.42	16.42	16.14

NR n5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	1	QPSK	21.71	22.11	21.98
20	1	1	16-QAM	21.67	21.64	21.57
20	1	1	64-QAM	19.87	20.99	20.94
20	1	1	256-QAM	16.57	16.48	16.34



Appendix B. Test Results of ERP and Radiated Test

ERP

<Primary Antenna>

<DFT-s-OFDM>

NR n5 / 5MHz (Average) (GT - LC = -2.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK	1	1	23.77	0.2383	18.82	0.0763
Middle		1	1	23.76	0.2377	18.81	0.0761
Highest		1	1	23.74	0.2366	18.79	0.0757
Lowest	QPSK	1	1	23.67	0.2329	18.72	0.0745
Middle		1	1	23.30	0.2138	18.35	0.0684
Highest		1	1	23.45	0.2214	18.50	0.0708
Lowest	16QAM	1	1	22.76	0.1888	17.81	0.0604
Middle		1	1	22.60	0.1820	17.65	0.0583
Highest		1	1	22.67	0.1850	17.72	0.0592
Lowest	64QAM	1	1	20.99	0.1257	16.04	0.0402
Middle		1	1	20.62	0.1154	15.67	0.0369
Highest		1	1	20.80	0.1203	15.85	0.0385
Lowest	256QAM	1	1	18.50	0.0708	13.55	0.0227
Middle		1	1	18.82	0.0763	13.87	0.0244
Highest		1	1	18.63	0.0730	13.68	0.0234
Limit	ERP < 7W			Result		PASS	

NR n5 / 10MHz (Average) (GT - LC = -2.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK	1	1	23.79	0.2394	18.84	0.0766
Middle		1	1	23.78	0.2388	18.83	0.0764
Highest		1	1	23.77	0.2383	18.82	0.0763
Lowest	QPSK	25	12	23.66	0.2323	18.71	0.0744
Middle		25	12	23.65	0.2318	18.70	0.0742
Highest		25	12	23.57	0.2276	18.62	0.0728
Lowest	16QAM	1	1	22.48	0.1771	17.53	0.0567
Middle		1	1	22.73	0.1875	17.78	0.0600
Highest		1	1	22.43	0.1750	17.48	0.0560
Lowest	64QAM	1	1	21.03	0.1268	16.08	0.0406
Middle		1	1	20.85	0.1217	15.90	0.0390
Highest		1	1	20.55	0.1136	15.60	0.0364
Lowest	256QAM	1	1	18.56	0.0718	13.61	0.0230
Middle		1	1	18.99	0.0793	14.04	0.0254
Highest		1	1	18.75	0.0750	13.80	0.0240
Limit	ERP < 7W			Result		PASS	



NR n5 / 15MHz (Average) (GT - LC = -2.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK	36	18	23.77	0.2383	18.82	0.0763
Middle		36	18	23.79	0.2394	18.84	0.0766
Highest		36	18	23.64	0.2313	18.69	0.0740
Lowest	QPSK	36	18	23.75	0.2372	18.80	0.0759
Middle		36	18	23.36	0.2168	18.41	0.0694
Highest		36	18	23.71	0.2350	18.76	0.0752
Lowest	16QAM	1	1	22.46	0.1762	17.51	0.0564
Middle		1	1	22.52	0.1787	17.57	0.0572
Highest		1	1	22.56	0.1804	17.61	0.0577
Lowest	64QAM	1	1	21.09	0.1286	16.14	0.0412
Middle		1	1	20.83	0.1211	15.88	0.0388
Highest		1	1	20.49	0.1120	15.54	0.0359
Lowest	256QAM	1	1	18.48	0.0705	13.53	0.0226
Middle		1	1	18.92	0.0780	13.97	0.0250
Highest		1	1	18.44	0.0699	13.49	0.0224
Limit	ERP < 7W			Result		PASS	

NR n5 / 20MHz (Average) (GT - LC = -2.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK	1	1	23.84	0.2422	18.89	0.0775
Middle		1	1	23.85	0.2427	18.90	0.0777
Highest		1	1	23.81	0.2405	18.86	0.0770
Lowest	QPSK	50	25	23.70	0.2345	18.75	0.0750
Middle		50	25	23.55	0.2265	18.60	0.0725
Highest		50	25	23.61	0.2297	18.66	0.0735
Lowest	16QAM	1	1	22.62	0.1829	17.67	0.0585
Middle		1	1	22.56	0.1804	17.61	0.0577
Highest		1	1	22.60	0.1820	17.65	0.0583
Lowest	64QAM	1	1	20.90	0.1231	15.95	0.0394
Middle		1	1	20.76	0.1192	15.81	0.0382
Highest		1	1	20.66	0.1165	15.71	0.0373
Lowest	256QAM	1	1	18.66	0.0735	13.71	0.0235
Middle		1	1	18.96	0.0788	14.01	0.0252
Highest		1	1	18.60	0.0725	13.65	0.0232
Limit	ERP < 7W			Result		PASS	

**<CP-OFDM>**

NR n5 / 5MHz (Average) (GT - LC = -2.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	1	21.75	0.1497	16.80	0.0479
Middle		1	1	22.10	0.1622	17.15	0.0519
Highest		1	1	21.99	0.1582	17.04	0.0506
Lowest	16QAM	1	1	21.67	0.1469	16.72	0.0470
Middle		1	1	21.69	0.1476	16.74	0.0473
Highest		1	1	21.63	0.1456	16.68	0.0466
Lowest	64QAM	1	1	20.07	0.1017	15.12	0.0326
Middle		1	1	21.30	0.1349	16.35	0.0432
Highest		1	1	21.18	0.1313	16.23	0.0420
Lowest	256QAM	1	1	16.66	0.0464	11.71	0.0149
Middle		1	1	16.70	0.0468	11.75	0.0150
Highest		1	1	16.54	0.0451	11.59	0.0145
Limit	ERP < 7W			Result		PASS	

NR n5 / 10MHz (Average) (GT - LC = -2.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	1	21.80	0.1514	16.85	0.0485
Middle		1	1	22.12	0.1630	17.17	0.0522
Highest		1	1	21.78	0.1507	16.83	0.0482
Lowest	16QAM	1	1	21.52	0.1420	16.57	0.0454
Middle		1	1	21.75	0.1497	16.80	0.0479
Highest		1	1	21.42	0.1387	16.47	0.0444
Lowest	64QAM	1	1	20.11	0.1026	15.16	0.0329
Middle		1	1	21.02	0.1265	16.07	0.0405
Highest		1	1	21.01	0.1262	16.06	0.0404
Lowest	256QAM	1	1	16.50	0.0447	11.55	0.0143
Middle		1	1	16.47	0.0444	11.52	0.0142
Highest		1	1	16.37	0.0434	11.42	0.0139
Limit	ERP < 7W			Result		PASS	



NR n5 / 15MHz (Average) (GT - LC = -2.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	1	22.02	0.1593	17.07	0.0510
Middle		1	1	21.94	0.1564	16.99	0.0501
Highest		1	1	21.81	0.1518	16.86	0.0486
Lowest	16QAM	1	1	21.70	0.1480	16.75	0.0474
Middle		1	1	21.96	0.1571	17.01	0.0503
Highest		1	1	21.73	0.1490	16.78	0.0477
Lowest	64QAM	1	1	19.71	0.0936	14.76	0.0300
Middle		1	1	21.24	0.1331	16.29	0.0426
Highest		1	1	20.98	0.1254	16.03	0.0401
Lowest	256QAM	1	1	16.72	0.0470	11.77	0.0151
Middle		1	1	16.66	0.0464	11.71	0.0149
Highest		1	1	16.32	0.0429	11.37	0.0138
Limit	ERP < 7W			Result		PASS	

NR n5 / 20MHz (Average) (GT - LC = -2.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	1	21.87	0.1539	16.92	0.0493
Middle		1	1	22.13	0.1634	17.18	0.0523
Highest		1	1	21.98	0.1578	17.03	0.0505
Lowest	16QAM	1	1	21.67	0.1469	16.72	0.0470
Middle		1	1	21.78	0.1507	16.83	0.0482
Highest		1	1	21.57	0.1436	16.62	0.0460
Lowest	64QAM	1	1	19.91	0.0980	14.96	0.0314
Middle		1	1	21.12	0.1295	16.17	0.0414
Highest		1	1	21.13	0.1298	16.18	0.0415
Lowest	256QAM	1	1	16.61	0.0459	11.66	0.0147
Middle		1	1	16.50	0.0447	11.55	0.0143
Highest		1	1	16.41	0.0438	11.46	0.0140
Limit	ERP < 7W			Result		PASS	



<ASDIV Antenna>

<DFT-s-OFDM>

NR n5 / 5MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK	12	6	23.64	0.2313	17.99	0.0630
Middle		12	6	23.61	0.2297	17.96	0.0626
Highest		12	6	23.64	0.2313	17.99	0.0630
Lowest	QPSK	1	1	23.41	0.2193	17.76	0.0598
Middle		1	1	23.24	0.2109	17.59	0.0575
Highest		1	1	23.39	0.2183	17.74	0.0595
Lowest	16QAM	1	1	22.26	0.1683	16.61	0.0459
Middle		1	1	22.39	0.1734	16.74	0.0473
Highest		1	1	22.37	0.1726	16.72	0.0470
Lowest	64QAM	1	1	20.59	0.1146	14.94	0.0312
Middle		1	1	20.47	0.1115	14.82	0.0304
Highest		1	1	20.44	0.1107	14.79	0.0302
Lowest	256QAM	1	1	18.55	0.0717	12.90	0.0195
Middle		1	1	18.84	0.0766	13.19	0.0209
Highest		1	1	18.41	0.0694	12.76	0.0189
Limit	ERP < 7W			Result		PASS	

NR n5 / 10MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK	1	1	23.56	0.2270	17.91	0.0619
Middle		1	1	23.72	0.2356	18.07	0.0642
Highest		1	1	23.71	0.2350	18.06	0.0640
Lowest	QPSK	1	1	23.61	0.2297	17.96	0.0626
Middle		1	1	23.33	0.2153	17.68	0.0587
Highest		1	1	23.27	0.2124	17.62	0.0579
Lowest	16QAM	1	1	22.36	0.1722	16.71	0.0469
Middle		1	1	22.31	0.1703	16.66	0.0464
Highest		1	1	22.35	0.1718	16.70	0.0468
Lowest	64QAM	1	1	20.58	0.1143	14.93	0.0312
Middle		1	1	20.58	0.1143	14.93	0.0312
Highest		1	1	20.45	0.1110	14.80	0.0302
Lowest	256QAM	1	1	18.48	0.0705	12.83	0.0192
Middle		1	1	18.85	0.0768	13.20	0.0209
Highest		1	1	18.55	0.0717	12.90	0.0195
Limit	ERP < 7W			Result		PASS	



NR n5 / 15MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK	36	18	23.70	0.2345	18.05	0.0639
Middle		36	18	23.78	0.2388	18.13	0.0651
Highest		36	18	23.61	0.2297	17.96	0.0626
Lowest	QPSK	36	18	23.51	0.2244	17.86	0.0611
Middle		36	18	23.15	0.2066	17.50	0.0563
Highest		36	18	23.51	0.2244	17.86	0.0611
Lowest	16QAM	1	1	22.36	0.1722	16.71	0.0469
Middle		1	1	22.28	0.1691	16.63	0.0461
Highest		1	1	22.27	0.1687	16.62	0.0460
Lowest	64QAM	1	1	20.71	0.1178	15.06	0.0321
Middle		1	1	20.46	0.1112	14.81	0.0303
Highest		1	1	20.44	0.1107	14.79	0.0302
Lowest	256QAM	1	1	18.53	0.0713	12.88	0.0195
Middle		1	1	18.87	0.0771	13.22	0.0210
Highest		1	1	18.36	0.0686	12.71	0.0187
Limit	ERP < 7W			Result		PASS	

NR n5 / 20MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK	1	1	23.75	0.2372	18.10	0.0646
Middle		1	1	23.80	0.2399	18.15	0.0654
Highest		1	1	23.77	0.2383	18.12	0.0649
Lowest	QPSK	1	1	23.61	0.2297	17.96	0.0626
Middle		1	1	23.39	0.2183	17.74	0.0595
Highest		1	1	23.47	0.2224	17.82	0.0606
Lowest	16QAM	1	1	22.46	0.1762	16.81	0.0480
Middle		1	1	22.39	0.1734	16.74	0.0473
Highest		1	1	22.41	0.1742	16.76	0.0475
Lowest	64QAM	1	1	20.73	0.1184	15.08	0.0323
Middle		1	1	20.59	0.1146	14.94	0.0312
Highest		1	1	20.63	0.1157	14.98	0.0315
Lowest	256QAM	1	1	18.62	0.0728	12.97	0.0199
Middle		1	1	18.93	0.0782	13.28	0.0213
Highest		1	1	18.56	0.0718	12.91	0.0196
Limit	ERP < 7W			Result		PASS	

**<CP-OFDM>**

NR n5 / 5MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	1	21.68	0.1473	16.03	0.0401
Middle		1	1	21.97	0.1574	16.32	0.0429
Highest		1	1	21.96	0.1571	16.31	0.0428
Lowest	16QAM	1	1	21.57	0.1436	15.92	0.0391
Middle		1	1	21.55	0.1429	15.90	0.0390
Highest		1	1	21.38	0.1375	15.73	0.0375
Lowest	64QAM	1	1	19.79	0.0953	14.14	0.0260
Middle		1	1	20.94	0.1242	15.29	0.0339
Highest		1	1	20.84	0.1214	15.19	0.0331
Lowest	256QAM	1	1	16.45	0.0442	10.80	0.0121
Middle		1	1	16.33	0.0430	10.68	0.0117
Highest		1	1	16.31	0.0428	10.66	0.0117
Limit	ERP < 7W			Result		PASS	

NR n5 / 10MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	1	21.62	0.1453	15.97	0.0396
Middle		1	1	22.02	0.1593	16.37	0.0434
Highest		1	1	21.83	0.1525	16.18	0.0415
Lowest	16QAM	1	1	21.47	0.1403	15.82	0.0382
Middle		1	1	21.61	0.1449	15.96	0.0395
Highest		1	1	21.44	0.1394	15.79	0.0380
Lowest	64QAM	1	1	19.67	0.0927	14.02	0.0253
Middle		1	1	20.94	0.1242	15.29	0.0339
Highest		1	1	20.78	0.1197	15.13	0.0326
Lowest	256QAM	1	1	16.44	0.0441	10.79	0.0120
Middle		1	1	16.35	0.0432	10.70	0.0118
Highest		1	1	16.27	0.0424	10.62	0.0116
Limit	ERP < 7W			Result		PASS	



NR n5 / 15MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	1	21.57	0.1436	15.92	0.0391
Middle		1	1	22.02	0.1593	16.37	0.0434
Highest		1	1	21.87	0.1539	16.22	0.0419
Lowest	16QAM	1	1	21.59	0.1443	15.94	0.0393
Middle		1	1	21.64	0.1459	15.99	0.0398
Highest		1	1	21.57	0.1436	15.92	0.0391
Lowest	64QAM	1	1	19.84	0.0964	14.19	0.0263
Middle		1	1	20.98	0.1254	15.33	0.0342
Highest		1	1	20.81	0.1206	15.16	0.0329
Lowest	256QAM	1	1	16.42	0.0439	10.77	0.0120
Middle		1	1	16.42	0.0439	10.77	0.0120
Highest		1	1	16.14	0.0412	10.49	0.0112
Limit	ERP < 7W			Result		PASS	

NR n5 / 20MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	1	21.71	0.1483	16.06	0.0404
Middle		1	1	22.11	0.1626	16.46	0.0443
Highest		1	1	21.98	0.1578	16.33	0.0430
Lowest	16QAM	1	1	21.67	0.1469	16.02	0.0400
Middle		1	1	21.64	0.1459	15.99	0.0398
Highest		1	1	21.57	0.1436	15.92	0.0391
Lowest	64QAM	1	1	19.87	0.0971	14.22	0.0265
Middle		1	1	20.99	0.1257	15.34	0.0342
Highest		1	1	20.94	0.1242	15.29	0.0339
Lowest	256QAM	1	1	16.57	0.0454	10.92	0.0124
Middle		1	1	16.48	0.0445	10.83	0.0122
Highest		1	1	16.34	0.0431	10.69	0.0118
Limit	ERP < 7W			Result		PASS	

**Radiated Spurious Emission**

<Primary Antenna>

<Ant. 0>

EN-DC 7A-n5A

EN-DC 7A-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)
Middle	1653	-53.96	-13	-40.96	-76.04	-55.70	0.98	4.87	H
	2480	-50.49	-13	-37.49	-77.58	-52.4	1.28	5.34	H
	3306	-48.35	-13	-35.35	-77.82	-51.8	1.54	7.15	H
									H
									H
									H
									H
	1653	-53.86	-13	-40.86	-76.29	-55.6	0.98	4.87	V
	2480	-50.19	-13	-37.19	-77.61	-52.1	1.28	5.34	V
	3306	-48.25	-13	-35.25	-77.86	-51.7	1.54	7.15	V
									V
									V
									V
									V

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



<ASDIV Antenna>

<Ant. 1>

EN-DC 7A-n5A

EN-DC 7A-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)
Middle	1653	-53.44	-13	-40.44	-75.63	-55.18	0.98	4.87	H
	2480	-49.61	-13	-36.61	-76.92	-51.52	1.28	5.34	H
	3306	-47.79	-13	-34.79	-77.42	-51.24	1.54	7.15	H
									H
									H
									H
									H
	1653	-52.72	-13	-39.72	-75.38	-54.46	0.98	4.87	V
	2480	-49.05	-13	-36.05	-76.8	-50.96	1.28	5.34	V
	3306	-47.33	-13	-34.33	-77.24	-50.78	1.54	7.15	V
									V
									V
									V
									V

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

—————THE END—————