



RADIO TEST REPORT

Report No.:STS2112349W02

Issued for

Yantai Iray Technology Co., Ltd

Guiyang Street NO.11, YEDA, Yantai, China

Product Name:	5G Smart phone
Brand Name:	InfiRay
Model Name:	PX1
Series Model:	N/A
FCC ID:	2A35I-PX1
Test Standard:	47 CFR Part 2, 22, 24, 27

Any reproduction of this document must be done in full. No single part of this document may be reproduced without permission from STS, all test data presented in this report is only applicable to presented test sample.

Shenzhen STS Test Services Co., Ltd.
A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,
Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail:sts@stsapp.com



**TEST RESULT CERTIFICATION**

Applicant's Name: Yantai Iray Technology Co., Ltd
Address: Guiyang Street NO.11, YEDA, Yantai, China
Manufacturer's Name: Yantai Iray Technology Co., Ltd
Address: Guiyang Street NO.11, YEDA, Yantai, China

Product Description

Product Name: 5G Smart phone
Brand Name: InfiRay
Model Name: PX1
Series Model: N/A
Test Standards: 47 CFR Part 2, 24(E), 27
Test Procedure: KDB 971168 D01 v03r01, ANSI C63.26 2015

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
This report shall not be reproduced except in full, without the written approval of STS, this document may be altered or revised by STS, personal only, and shall be noted in the revision of the document.

Date of Test:
Date of receipt of test item: 16 Aug. 2021
Date (s) of performance of tests ..: 16 Aug. 2021 ~ 20 Jan. 2022
Date of Issue: 20 Jan. 2022
Test Result: Pass

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

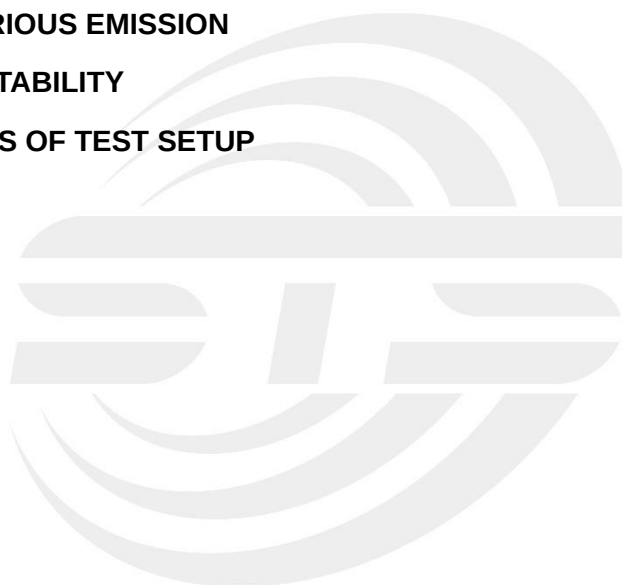
Authorized Signatory :

(Vita Li)





Table of Contents	Page
1. TEST FACTORY & MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
3. CONDUCTED OUTPUT POWER	12
4. PEAK-TO-AVERAGE RATIO	13
5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER	14
6. OCCUPIED BANDWIDTH	30
7. CONDUCTED BAND EDGE	31
8. CONDUCTED SPURIOUS EMISSION	33
9. RADIATED SPURIOUS EMISSION	34
10. FREQUENCY STABILITY	55
APPENDIX-PHOTOS OF TEST SETUP	61



**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	25 Oct. 2021	STS2108075W02	ALL	Initial Issue
01	20 Jan. 2021	STS2112349W02	ALL	Update applicant, manufacturer, brand name, model name, series model, battery and RSE data.





1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.87\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.895\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.09\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.92\text{dB}$
6	All emissions, radiated >6G	$\pm 5.49\text{dB}$
7	Conducted Emission (9KHz-30MHz)	$\pm 2.73\text{dB}$



2. GENERAL INFORMATION

2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Name	5G Smart phone
Trade Name	InfiRay
Model Name	PX1
Series Model	N/A
Model Difference	N/A
Frequency Bands	n2, n5, n7, n41, n66
SIM Card	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.
Antenna	PIFA
Antenna gain	5G NR:1.8dBi
Battery parameter	Rated Voltage: 3.8V Charge Limit Voltage: 4.35V Capacity: 5500mAh
Adapter	Input: AC100-240V 50/60HZ 0.50A; Output: DC5.0V 3.0A 15.0W or 9V 2.0A 18.0W or 12V 1.50A 18.0W
Extreme Vol. Limits	3.33V to 4.07C (Nominal 3.7V)
Extreme Temp. Tolerance	-30°C to +50°C
Operating Temp.	5°C to +45°C
Hardware version number	V1.00
Software version number	N18804.02.01.00US

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sa-mple identified in the report.



2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard	
Tx Frequency	n2: 1850-1910 MHz n5: 824-849 MHz n7: 2500-2570 MHz n41: 2496-2690 MHz n66: 1710-1780 MHz
Rx Frequency	n2: 1930-1990 MHz n5: 869-894 MHz n7: 2620-2690 MHz n41: 2496-2690 MHz n66: 2110-2200 MHz
Bandwidth	n2: 5MHz, 10MHz, 15MHz, 20MHz n5: 5MHz, 10MHz, 15MHz, 20MHz n7: 5MHz, 10MHz, 15MHz, 20MHz n41: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz n66: 5MHz, 10MHz, 15MHz, 20MHz
Subcarrier Spacing	n2: 15KHz n5: 15KHz n7: 15KHz n41: 30KHz n66: 15KHz
Maximum Output Power	n2: 22.05dBm n5: 23.72dBm n7: 23.86dBm n41: 24.68dBm n66: 23.24dBm
Type of Modulation	DFT-s-OFDM, CP-OFDM ($\pi/2$ shift BPSK, QPSK, 16QAM, 64QAM, 256QAM)



2.1.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 22, 24, 27.

2.1.4 SPECIAL ACCESSORIES

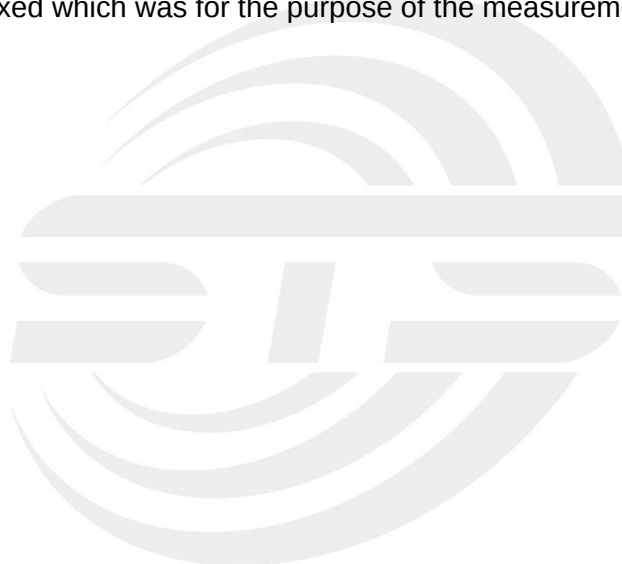
The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.1.5 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.1.6 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.





2.1.7 CONFIGURATION OF EUT SYSTEM

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

E-1
EUT

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Length	Note
N/A	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.1.8 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29
Signal Analyzer	R&S	FSV 40-N	101823	2021.09.30	2022.09.29
Signal Generator	Agilent	83752A	3610A02740	2021.09.30	2022.09.29
UXM 5G Wireless Test Platform	Keysight	E7515B	MY60101078	2021.09.30	2022.09.29
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Bilog Antenna	TESEQ	CBL6111D	45873	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1343	2020.10.12	2022.10.11
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2021.10.08	2022.10.07
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2021.09.30	2022.09.29
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2021.09.28	2022.09.27
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Test SW	BULUN	BL410-E/18.905			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
UXM 5G Wireless Test Platform	Keysight	E7515B	MY60101078	2021.09.30	2022.09.29
Signal Analyzer	Agilent	N9020A	MY52440124	2021.03.04	2022.03.03
Temperature & Humidity test chamber	Safety test	AG80L	171200018	2021.03.04	2022.03.03
Programmable power supply	Agilent	E3642A	MY40002025	2021.10.08	2022.10.07
Temperature & Humidity	SW-108	SuWei	N/A	2021.03.04	2022.03.03
Test SW	FARAD	LZ-RF /LzRf-3A3			



2.1.9 MEASUREMENT RESULTS EXPLANATION EXAMPLE

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF Cable Loss + Attenuator Factor.



3. CONDUCTED OUTPUT POWER

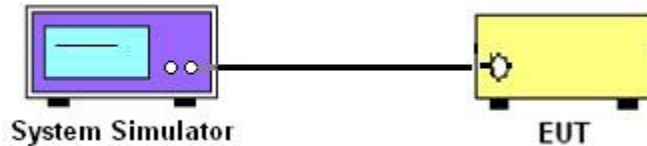
3.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

3.1.1 MEASUREMENT METHOD

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.

Configuration follows KDB 971168 D01 v03r01.

3.1.2 TEST SETUP



3.1.3 TEST PROCEDURES

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

3.1.4 TEST RESULTS

Note: The test data please reference to attachment "STS2108075W02_Appendix SA".

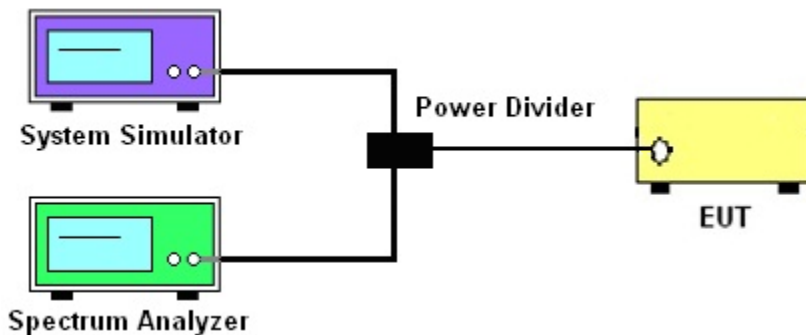
4. PEAK-TO-AVERAGE RATIO

4.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

4.1.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1.3 to measure the total peak power and record as PPK. Use one of the applicable procedures presented 4.1.3 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:
 $PAPR (dB) = PPK (dBm) - PAvg (dBm)$.

4.1.2 TEST SETUP



4.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 and ANSI C63.26 2015 Section 5.2.6.
2. The EUT was connected to spectrum and system simulator via a power divider
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the peak and average power of the spectrum analyzer
5. Record the deviation as Peak to Average Ratio.

4.1.4 TEST RESULTS

Note: The test data please reference to attachment "STS2108075W02_Appendix SA".



5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

5.1 DESCRIPTION OF THE ERP/EIRP MEASUREMENT

5.1.1 MEASUREMENT METHOD

Determining ERP and/or EIRP from conducted RF output power measurements according to ANSI C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the EIRP. Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts). The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$(1) \text{ ERP or EIRP} = P_{\text{Meas}} + GT$$

$$\text{ERP} = \text{EIRP} - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

GT gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

a) $\text{ERP} = \text{EIRP} - 2.15$, where ERP and EIRP are expressed in consistent units.

b) $\text{EIRP} = \text{ERP} + 2.15$, where ERP and EIRP are expressed in consistent units.



5.1.2 TEST RESULTS

Radiated Power (EIRP) for NR n2 / SCS 15KHz										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP(dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	1	DFT_BPSK	21.96	1.8	23.76	2.00	33.00	PASS
		25	0	DFT_QPSK	21.95	1.8	23.75	2.00	33.00	PASS
		12	6		22.05	1.8	23.85	2.00	33.00	PASS
		1	1		21.96	1.8	23.76	2.00	33.00	PASS
		1	23		21.97	1.8	23.77	2.00	33.00	PASS
		1	1	DFT_QAM16	21.66	1.8	23.46	2.00	33.00	PASS
		1	1	DFT_QAM64	20.52	1.8	22.32	2.00	33.00	PASS
		1	1	DFT_QAM256	18.64	1.8	20.44	2.00	33.00	PASS
		1	1	CP_QPSK	21.97	1.8	23.77	2.00	33.00	PASS
	Middle	1	1	DFT_BPSK	20.55	1.8	22.35	2.00	33.00	PASS
		25	0	DFT_QPSK	20.39	1.8	22.19	2.00	33.00	PASS
		12	6		20.43	1.8	22.23	2.00	33.00	PASS
		1	1		20.56	1.8	22.36	2.00	33.00	PASS
		1	23		20.08	1.8	21.88	2.00	33.00	PASS
		1	1	DFT_QAM16	20.43	1.8	22.23	2.00	33.00	PASS
		1	1	DFT_QAM64	19	1.8	20.80	2.00	33.00	PASS
		1	1	DFT_QAM256	17.24	1.8	19.04	2.00	33.00	PASS
		1	1	CP_QPSK	20.56	1.8	22.36	2.00	33.00	PASS
	Highest	1	1	DFT_BPSK	19.7	1.8	21.50	2.00	33.00	PASS
		25	0	DFT_QPSK	19.7	1.8	21.50	2.00	33.00	PASS
		12	6		19.71	1.8	21.51	2.00	33.00	PASS
		1	1		19.72	1.8	21.52	2.00	33.00	PASS
		1	23		19.42	1.8	21.22	2.00	33.00	PASS
		1	1	DFT_QAM16	19.82	1.8	21.62	2.00	33.00	PASS
		1	1	DFT_QAM64	18.19	1.8	19.99	2.00	33.00	PASS
		1	1	DFT_QAM256	16.47	1.8	18.27	2.00	33.00	PASS
		1	1	CP_QPSK	19.72	1.8	21.52	2.00	33.00	PASS
15	Lowest	1	1	DFT_BPSK	21.8	1.8	23.60	2.00	33.00	PASS
		75	0	DFT_QPSK	21.93	1.8	23.73	2.00	33.00	PASS
		36	18		21.92	1.8	23.72	2.00	33.00	PASS
		1	1		21.69	1.8	23.49	2.00	33.00	PASS
		1	77		21.75	1.8	23.55	2.00	33.00	PASS



		1	1	DFT_QAM16	21.74	1.8	23.54	2.00	33.00	PASS
		1	1	DFT_QAM64	20.13	1.8	21.93	2.00	33.00	PASS
		1	1	DFT_QAM256	18.1	1.8	19.90	2.00	33.00	PASS
		1	1	CP_QPSK	21.8	1.8	23.60	2.00	33.00	PASS
	Middle	1	1	DFT_BPSK	20.86	1.8	22.66	2.00	33.00	PASS
		75	0	DFT_QPSK	20.54	1.8	22.34	2.00	33.00	PASS
		36	18		20.41	1.8	22.21	2.00	33.00	PASS
		1	1		20.86	1.8	22.66	2.00	33.00	PASS
		1	77		19.56	1.8	21.36	2.00	33.00	PASS
		1	1	DFT_QAM16	20.65	1.8	22.45	2.00	33.00	PASS
		1	1	DFT_QAM64	19.33	1.8	21.13	2.00	33.00	PASS
		1	1	DFT_QAM256	17.78	1.8	19.58	2.00	33.00	PASS
		1	1	CP_QPSK	20.91	1.8	22.71	2.00	33.00	PASS
	Highest	1	1	DFT_BPSK	19.42	1.8	21.22	2.00	33.00	PASS
		75	0	DFT_QPSK	19.63	1.8	21.43	2.00	33.00	PASS
		36	18		19.64	1.8	21.44	2.00	33.00	PASS
		1	1		19.4	1.8	21.20	2.00	33.00	PASS
		1	77		19.33	1.8	21.13	2.00	33.00	PASS
		1	1	DFT_QAM16	19.47	1.8	21.27	2.00	33.00	PASS
		1	1	DFT_QAM64	17.33	1.8	19.13	2.00	33.00	PASS
		1	1	DFT_QAM256	16.26	1.8	18.06	2.00	33.00	PASS
		1	1	CP_QPSK	19.42	1.8	21.22	2.00	33.00	PASS
20	Lowest	1	1	DFT_BPSK	21.73	1.8	23.53	2.00	33.00	PASS
		100	0	DFT_QPSK	21.9	1.8	23.70	2.00	33.00	PASS
		50	25		21.86	1.8	23.66	2.00	33.00	PASS
		1	1		21.73	1.8	23.53	2.00	33.00	PASS
		1	104		21.5	1.8	23.30	2.00	33.00	PASS
		1	1	DFT_QAM16	21.47	1.8	23.27	2.00	33.00	PASS
		1	1	DFT_QAM64	20.16	1.8	21.96	2.00	33.00	PASS
		1	1	DFT_QAM256	18.09	1.8	19.89	2.00	33.00	PASS
		1	1	CP_QPSK	21.73	1.8	23.53	2.00	33.00	PASS
	Middle	1	1	DFT_BPSK	21.09	1.8	22.89	2.00	33.00	PASS
		100	0	DFT_QPSK	20.52	1.8	22.32	2.00	33.00	PASS
		50	25		20.44	1.8	22.24	2.00	33.00	PASS
		1	1		21.18	1.8	22.98	2.00	33.00	PASS
		1	104		19.45	1.8	21.25	2.00	33.00	PASS
		1	1	DFT_QAM16	20.88	1.8	22.68	2.00	33.00	PASS
		1	1	DFT_QAM64	19.54	1.8	21.34	2.00	33.00	PASS



	Highest	1	1	DFT_QAM256	18.03	1.8	19.83	2.00	33.00	PASS
		1	1	CP_QPSK	21.18	1.8	22.98	2.00	33.00	PASS
		1	1	DFT_BPSK	19.53	1.8	21.33	2.00	33.00	PASS
		100	0	DFT_QPSK	19.62	1.8	21.42	2.00	33.00	PASS
		50	25		19.61	1.8	21.41	2.00	33.00	PASS
		1	1		19.51	1.8	21.31	2.00	33.00	PASS
		1	104		19.38	1.8	21.18	2.00	33.00	PASS
		1	1	DFT_QAM16	18.86	1.8	20.66	2.00	33.00	PASS
		1	1	DFT_QAM64	17.95	1.8	19.75	2.00	33.00	PASS
		1	1	DFT_QAM256	15.87	1.8	17.67	2.00	33.00	PASS
		1	1	CP_QPSK	19.51	1.8	21.31	2.00	33.00	PASS





Radiated Power (EIRP) for NR n5 / SCS 15KHz										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP(dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
5	Lowest	1	1	DFT_BPSK	23.46	1.8	23.11	7.00	38.45	PASS
		25	0	DFT_QPSK	23.47	1.8	23.12	7.00	38.45	PASS
		12	6		23.41	1.8	23.06	7.00	38.45	PASS
		1	1		23.55	1.8	23.20	7.00	38.45	PASS
		1	23		23.54	1.8	23.19	7.00	38.45	PASS
		1	1	DFT_QAM16	23.68	1.8	23.33	7.00	38.45	PASS
		1	1	DFT_QAM64	22.07	1.8	21.72	7.00	38.45	PASS
		1	1	DFT_QAM256	19.9	1.8	19.55	7.00	38.45	PASS
		1	1	CP_QPSK	23	1.8	22.65	7.00	38.45	PASS
	Middle	1	1	DFT_BPSK	23.36	1.8	23.01	7.00	38.45	PASS
		25	0	DFT_QPSK	23.52	1.8	23.17	7.00	38.45	PASS
		12	6		23.4	1.8	23.05	7.00	38.45	PASS
		1	1		23.43	1.8	23.08	7.00	38.45	PASS
		1	23		23.55	1.8	23.20	7.00	38.45	PASS
		1	1	DFT_QAM16	23.51	1.8	23.16	7.00	38.45	PASS
		1	1	DFT_QAM64	21.65	1.8	21.30	7.00	38.45	PASS
		1	1	DFT_QAM256	19.93	1.8	19.58	7.00	38.45	PASS
		1	1	CP_QPSK	22.9	1.8	22.55	7.00	38.45	PASS
	Highest	1	1	DFT_BPSK	23.31	1.8	22.96	7.00	38.45	PASS
		25	0	DFT_QPSK	23.3	1.8	22.95	7.00	38.45	PASS
		12	6		23.26	1.8	22.91	7.00	38.45	PASS
		1	1		23.33	1.8	22.98	7.00	38.45	PASS
		1	23		23.31	1.8	22.96	7.00	38.45	PASS
		1	1	DFT_QAM16	23.32	1.8	22.97	7.00	38.45	PASS
		1	1	DFT_QAM64	21.78	1.8	21.43	7.00	38.45	PASS
		1	1	DFT_QAM256	19.88	1.8	19.53	7.00	38.45	PASS
		1	1	CP_QPSK	22.95	1.8	22.60	7.00	38.45	PASS
15	Lowest	1	1	DFT_BPSK	23.23	1.8	22.88	7.00	38.45	PASS
		75	0	DFT_QPSK	23.38	1.8	23.03	7.00	38.45	PASS
		36	18		23.32	1.8	22.97	7.00	38.45	PASS
		1	1		23.24	1.8	22.89	7.00	38.45	PASS
		1	77		23.25	1.8	22.90	7.00	38.45	PASS
		1	1	DFT_QAM16	23.38	1.8	23.03	7.00	38.45	PASS
		1	1	DFT_QAM64	21.76	1.8	21.41	7.00	38.45	PASS



		1	1	DFT_QAM256	19.85	1.8	19.50	7.00	38.45	PASS
		1	1	CP_QPSK	22.77	1.8	22.42	7.00	38.45	PASS
	Middle	1	1	DFT_BPSK	23.29	1.8	22.94	7.00	38.45	PASS
		75	0	DFT_QPSK	23.27	1.8	22.92	7.00	38.45	PASS
		36	18		23.32	1.8	22.97	7.00	38.45	PASS
		1	1		23.3	1.8	22.95	7.00	38.45	PASS
		1	77		23.26	1.8	22.91	7.00	38.45	PASS
		1	1	DFT_QAM16	23.19	1.8	22.84	7.00	38.45	PASS
		1	1	DFT_QAM64	22.03	1.8	21.68	7.00	38.45	PASS
		1	1	DFT_QAM256	20.07	1.8	19.72	7.00	38.45	PASS
		1	1	CP_QPSK	23.15	1.8	22.80	7.00	38.45	PASS
	Highest	1	1	DFT_BPSK	23.23	1.8	22.88	7.00	38.45	PASS
		75	0	DFT_QPSK	23.38	1.8	23.03	7.00	38.45	PASS
		36	18		23.31	1.8	22.96	7.00	38.45	PASS
		1	1		23.3	1.8	22.95	7.00	38.45	PASS
		1	77		23.11	1.8	22.76	7.00	38.45	PASS
		1	1	DFT_QAM16	23.72	1.8	23.37	7.00	38.45	PASS
		1	1	DFT_QAM64	21.62	1.8	21.27	7.00	38.45	PASS
		1	1	DFT_QAM256	19.45	1.8	19.10	7.00	38.45	PASS
		1	1	CP_QPSK	22.97	1.8	22.62	7.00	38.45	PASS
20	Lowest	1	1	DFT_BPSK	23.24	1.8	22.89	7.00	38.45	PASS
		100	0	DFT_QPSK	23.33	1.8	22.98	7.00	38.45	PASS
		50	25		23.33	1.8	22.98	7.00	38.45	PASS
		1	1		23.36	1.8	23.01	7.00	38.45	PASS
		1	104		23.09	1.8	22.74	7.00	38.45	PASS
		1	1	DFT_QAM16	23.31	1.8	22.96	7.00	38.45	PASS
		1	1	DFT_QAM64	21.85	1.8	21.50	7.00	38.45	PASS
		1	1	DFT_QAM256	19.76	1.8	19.41	7.00	38.45	PASS
		1	1	CP_QPSK	22.8	1.8	22.45	7.00	38.45	PASS
	Middle	1	1	DFT_BPSK	23.34	1.8	22.99	7.00	38.45	PASS
		100	0	DFT_QPSK	23.34	1.8	22.99	7.00	38.45	PASS
		50	25		23.36	1.8	23.01	7.00	38.45	PASS
		1	1		23.35	1.8	23.00	7.00	38.45	PASS
		1	104		23.16	1.8	22.81	7.00	38.45	PASS
		1	1	DFT_QAM16	23.4	1.8	23.05	7.00	38.45	PASS
		1	1	DFT_QAM64	21.86	1.8	21.51	7.00	38.45	PASS
		1	1	DFT_QAM256	19.97	1.8	19.62	7.00	38.45	PASS
		1	1	CP_QPSK	22.83	1.8	22.48	7.00	38.45	PASS



Highest	1	1	DFT_BPSK	23.29	1.8	22.94	7.00	38.45	PASS
	100	0	DFT_QPSK	23.31	1.8	22.96	7.00	38.45	PASS
	50	25		23.39	1.8	23.04	7.00	38.45	PASS
	1	1		23.3	1.8	22.95	7.00	38.45	PASS
	1	104		23.09	1.8	22.74	7.00	38.45	PASS
	1	1	DFT_QAM16	23.38	1.8	23.03	7.00	38.45	PASS
	1	1	DFT_QAM64	21.8	1.8	21.45	7.00	38.45	PASS
	1	1	DFT_QAM256	19.94	1.8	19.59	7.00	38.45	PASS
	1	1	CP_QPSK	22.82	1.8	22.47	7.00	38.45	PASS





Radiated Power (EIRP) for NR n7 / SCS 15KHz										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP(dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	1	DFT_BPSK	23.71	1.8	25.51	2.00	33.00	PASS
		25	0	DFT_QPSK	23.66	1.8	25.46	2.00	33.00	PASS
		12	6		23.71	1.8	25.51	2.00	33.00	PASS
		1	1		23.62	1.8	25.42	2.00	33.00	PASS
		1	23		23.74	1.8	25.54	2.00	33.00	PASS
		1	1	DFT_QAM16	23.5	1.8	25.30	2.00	33.00	PASS
		1	1	DFT_QAM64	22.08	1.8	23.88	2.00	33.00	PASS
		1	1	DFT_QAM256	20.32	1.8	22.12	2.00	33.00	PASS
		1	1	CP_QPSK	23.61	1.8	25.41	2.00	33.00	PASS
	Middle	1	1	DFT_BPSK	23.74	1.8	25.54	2.00	33.00	PASS
		25	0	DFT_QPSK	23.86	1.8	25.66	2.00	33.00	PASS
		12	6		23.81	1.8	25.61	2.00	33.00	PASS
		1	1		23.73	1.8	25.53	2.00	33.00	PASS
		1	23		23.71	1.8	25.51	2.00	33.00	PASS
		1	1	DFT_QAM16	23.64	1.8	25.44	2.00	33.00	PASS
		1	1	DFT_QAM64	22.37	1.8	24.17	2.00	33.00	PASS
		1	1	DFT_QAM256	20.46	1.8	22.26	2.00	33.00	PASS
		1	1	CP_QPSK	23.74	1.8	25.54	2.00	33.00	PASS
	Highest	1	1	DFT_BPSK	23.03	1.8	24.83	2.00	33.00	PASS
		25	0	DFT_QPSK	23.18	1.8	24.98	2.00	33.00	PASS
		12	6		23.14	1.8	24.94	2.00	33.00	PASS
		1	1		23.02	1.8	24.82	2.00	33.00	PASS
		1	23		23	1.8	24.80	2.00	33.00	PASS
		1	1	DFT_QAM16	23.09	1.8	24.89	2.00	33.00	PASS
		1	1	DFT_QAM64	21.33	1.8	23.13	2.00	33.00	PASS
		1	1	DFT_QAM256	19.68	1.8	21.48	2.00	33.00	PASS
		1	1	CP_QPSK	23.05	1.8	24.85	2.00	33.00	PASS
15	Lowest	1	1	DFT_BPSK	23.28	1.8	25.08	2.00	33.00	PASS
		75	0	DFT_QPSK	23.57	1.8	25.37	2.00	33.00	PASS
		36	18		23.42	1.8	25.22	2.00	33.00	PASS
		1	1		23.16	1.8	24.96	2.00	33.00	PASS
		1	77		23.24	1.8	25.04	2.00	33.00	PASS
		1	1	DFT_QAM16	23.31	1.8	25.11	2.00	33.00	PASS
		1	1	DFT_QAM64	21.61	1.8	23.41	2.00	33.00	PASS



		1	1	DFT_QAM256	19.57	1.8	21.37	2.00	33.00	PASS
		1	1	CP_QPSK	23.26	1.8	25.06	2.00	33.00	PASS
	Middle	1	1	DFT_BPSK	23.4	1.8	25.20	2.00	33.00	PASS
		75	0	DFT_QPSK	23.58	1.8	25.38	2.00	33.00	PASS
		36	18		23.54	1.8	25.34	2.00	33.00	PASS
		1	1		23.4	1.8	25.20	2.00	33.00	PASS
		1	77		23.46	1.8	25.26	2.00	33.00	PASS
		1	1	DFT_QAM16	23.44	1.8	25.24	2.00	33.00	PASS
		1	1	DFT_QAM64	21.87	1.8	23.67	2.00	33.00	PASS
		1	1	DFT_QAM256	19.81	1.8	21.61	2.00	33.00	PASS
		1	1	CP_QPSK	23.4	1.8	25.20	2.00	33.00	PASS
	Highest	1	1	DFT_BPSK	22.9	1.8	24.70	2.00	33.00	PASS
		75	0	DFT_QPSK	23.11	1.8	24.91	2.00	33.00	PASS
		36	18		23.11	1.8	24.91	2.00	33.00	PASS
		1	1		22.89	1.8	24.69	2.00	33.00	PASS
		1	77		22.88	1.8	24.68	2.00	33.00	PASS
		1	1	DFT_QAM16	22.92	1.8	24.72	2.00	33.00	PASS
		1	1	DFT_QAM64	21.29	1.8	23.09	2.00	33.00	PASS
		1	1	DFT_QAM256	19.17	1.8	20.97	2.00	33.00	PASS
		1	1	CP_QPSK	22.9	1.8	24.70	2.00	33.00	PASS
20	Lowest	1	1	DFT_BPSK	23.2	1.8	25.00	2.00	33.00	PASS
		100	0	DFT_QPSK	23.43	1.8	25.23	2.00	33.00	PASS
		50	25		23.53	1.8	25.33	2.00	33.00	PASS
		1	1		23.21	1.8	25.01	2.00	33.00	PASS
		1	104		23.22	1.8	25.02	2.00	33.00	PASS
		1	1	DFT_QAM16	23.12	1.8	24.92	2.00	33.00	PASS
		1	1	DFT_QAM64	21.65	1.8	23.45	2.00	33.00	PASS
		1	1	DFT_QAM256	19.66	1.8	21.46	2.00	33.00	PASS
		1	1	CP_QPSK	23.21	1.8	25.01	2.00	33.00	PASS
	Middle	1	1	DFT_BPSK	23.4	1.8	25.20	2.00	33.00	PASS
		100	0	DFT_QPSK	23.53	1.8	25.33	2.00	33.00	PASS
		50	25		23.54	1.8	25.34	2.00	33.00	PASS
		1	1		23.39	1.8	25.19	2.00	33.00	PASS
		1	104		23.48	1.8	25.28	2.00	33.00	PASS
		1	1	DFT_QAM16	23.51	1.8	25.31	2.00	33.00	PASS
		1	1	DFT_QAM64	21.76	1.8	23.56	2.00	33.00	PASS
		1	1	DFT_QAM256	19.7	1.8	21.50	2.00	33.00	PASS
		1	1	CP_QPSK	23.4	1.8	25.20	2.00	33.00	PASS



Highest	1	1	DFT_BPSK	22.85	1.8	24.65	2.00	33.00	PASS
	100	0	DFT_QPSK	23.11	1.8	24.91	2.00	33.00	PASS
	50	25		23.11	1.8	24.91	2.00	33.00	PASS
	1	1		22.8	1.8	24.60	2.00	33.00	PASS
	1	104		22.91	1.8	24.71	2.00	33.00	PASS
	1	1	DFT_QAM16	22.58	1.8	24.38	2.00	33.00	PASS
	1	1	DFT_QAM64	20.86	1.8	22.66	2.00	33.00	PASS
	1	1	DFT_QAM256	19.25	1.8	21.05	2.00	33.00	PASS
	1	1	CP_QPSK	22.76	1.8	24.56	2.00	33.00	PASS





Radiated Power (EIRP) for NR n41 / SCS 30KHz										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP(dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
20	Lowest	1	1	DFT_BPSK	22.85	1.8	24.65	2.00	33.00	PASS
		50	0	DFT_QPSK	22.89	1.8	24.69	2.00	33.00	PASS
		25	12		22.85	1.8	24.65	2.00	33.00	PASS
		1	1		22.85	1.8	24.65	2.00	33.00	PASS
		1	49		22.85	1.8	24.65	2.00	33.00	PASS
		1	1	DFT_QAM16	22.83	1.8	24.63	2.00	33.00	PASS
		1	1	DFT_QAM64	22.54	1.8	24.34	2.00	33.00	PASS
		1	1	DFT_QAM256	22.06	1.8	23.86	2.00	33.00	PASS
		1	1	CP_QPSK	22.84	1.8	24.64	2.00	33.00	PASS
	Middle	1	1	DFT_BPSK	24.52	1.8	26.32	2.00	33.00	PASS
		50	0	DFT_QPSK	24.68	1.8	26.48	2.00	33.00	PASS
		25	12		24.61	1.8	26.41	2.00	33.00	PASS
		1	1		24.53	1.8	26.33	2.00	33.00	PASS
		1	49		24.57	1.8	26.37	2.00	33.00	PASS
		1	1	DFT_QAM16	24.41	1.8	26.21	2.00	33.00	PASS
		1	1	DFT_QAM64	24.38	1.8	26.18	2.00	33.00	PASS
		1	1	DFT_QAM256	23.82	1.8	25.62	2.00	33.00	PASS
		1	1	CP_QPSK	24.53	1.8	26.33	2.00	33.00	PASS
	Highest	1	1	DFT_BPSK	24.46	1.8	26.26	2.00	33.00	PASS
		50	0	DFT_QPSK	24.53	1.8	26.33	2.00	33.00	PASS
		25	12		24.62	1.8	26.42	2.00	33.00	PASS
		1	1		24.46	1.8	26.26	2.00	33.00	PASS
		1	49		24.47	1.8	26.27	2.00	33.00	PASS
		1	1	DFT_QAM16	24.26	1.8	26.06	2.00	33.00	PASS
		1	1	DFT_QAM64	24.42	1.8	26.22	2.00	33.00	PASS
		1	1	DFT_QAM256	23.77	1.8	25.57	2.00	33.00	PASS
		1	1	CP_QPSK	24.47	1.8	26.27	2.00	33.00	PASS
50	Lowest	1	1	DFT_BPSK	23.84	1.8	25.64	2.00	33.00	PASS
		128	0	DFT_QPSK	23.99	1.8	25.79	2.00	33.00	PASS
		64	32		24.02	1.8	25.82	2.00	33.00	PASS
		1	1		23.87	1.8	25.67	2.00	33.00	PASS
		1	131		23.85	1.8	25.65	2.00	33.00	PASS
		1	1	DFT_QAM16	23.64	1.8	25.44	2.00	33.00	PASS
		1	1	DFT_QAM64	23.78	1.8	25.58	2.00	33.00	PASS



		1	1	DFT_QAM256	23.12	1.8	24.92	2.00	33.00	PASS
		1	1	CP_QPSK	23.86	1.8	25.66	2.00	33.00	PASS
	Middle	1	1	DFT_BPSK	24.41	1.8	26.21	2.00	33.00	PASS
		128	0	DFT_QPSK	24.57	1.8	26.37	2.00	33.00	PASS
		64	32		24.61	1.8	26.41	2.00	33.00	PASS
		1	1		24.42	1.8	26.22	2.00	33.00	PASS
		1	131		24.51	1.8	26.31	2.00	33.00	PASS
		1	1	DFT_QAM16	24.2	1.8	26.00	2.00	33.00	PASS
		1	1	DFT_QAM64	24.33	1.8	26.13	2.00	33.00	PASS
		1	1	DFT_QAM256	23.68	1.8	25.48	2.00	33.00	PASS
		1	1	CP_QPSK	24.41	1.8	26.21	2.00	33.00	PASS
	Highest	1	1	DFT_BPSK	24.34	1.8	26.14	2.00	33.00	PASS
		128	0	DFT_QPSK	24.46	1.8	26.26	2.00	33.00	PASS
		64	32		24.45	1.8	26.25	2.00	33.00	PASS
		1	1		24.35	1.8	26.15	2.00	33.00	PASS
		1	131		24.47	1.8	26.27	2.00	33.00	PASS
		1	1	DFT_QAM16	24.15	1.8	25.95	2.00	33.00	PASS
		1	1	DFT_QAM64	24.04	1.8	25.84	2.00	33.00	PASS
		1	1	DFT_QAM256	23.7	1.8	25.50	2.00	33.00	PASS
		1	1	CP_QPSK	24.33	1.8	26.13	2.00	33.00	PASS
100	Lowest	1	1	DFT_BPSK	23.47	1.8	25.27	2.00	33.00	PASS
		270	0	DFT_QPSK	23.47	1.8	25.27	2.00	33.00	PASS
		135	67		23.6	1.8	25.40	2.00	33.00	PASS
		1	1		23.46	1.8	25.26	2.00	33.00	PASS
		1	271		23.3	1.8	25.10	2.00	33.00	PASS
		1	1	DFT_QAM16	23.28	1.8	25.08	2.00	33.00	PASS
		1	1	DFT_QAM64	23.41	1.8	25.21	2.00	33.00	PASS
		1	1	DFT_QAM256	22.87	1.8	24.67	2.00	33.00	PASS
		1	1	CP_QPSK	23.46	1.8	25.26	2.00	33.00	PASS
	Middle	1	1	DFT_BPSK	24.35	1.8	26.15	2.00	33.00	PASS
		270	0	DFT_QPSK	24.44	1.8	26.24	2.00	33.00	PASS
		135	67		24.39	1.8	26.19	2.00	33.00	PASS
		1	1		24.35	1.8	26.15	2.00	33.00	PASS
		1	271		24.17	1.8	25.97	2.00	33.00	PASS
		1	1	DFT_QAM16	24.25	1.8	26.05	2.00	33.00	PASS
		1	1	DFT_QAM64	24.15	1.8	25.95	2.00	33.00	PASS
		1	1	DFT_QAM256	23.61	1.8	25.41	2.00	33.00	PASS
		1	1	CP_QPSK	24.34	1.8	26.14	2.00	33.00	PASS



Highest	1	1	DFT_BPSK	24.19	1.8	25.99	2.00	33.00	PASS
	270	0	DFT_QPSK	24.2	1.8	26.00	2.00	33.00	PASS
	135	67		24.15	1.8	25.95	2.00	33.00	PASS
	1	1		24.2	1.8	26.00	2.00	33.00	PASS
	1	271		24.25	1.8	26.05	2.00	33.00	PASS
	1	1	DFT_QAM16	24.01	1.8	25.81	2.00	33.00	PASS
	1	1	DFT_QAM64	24.1	1.8	25.90	2.00	33.00	PASS
	1	1	DFT_QAM256	23.46	1.8	25.26	2.00	33.00	PASS
	1	1	CP_QPSK	24.21	1.8	26.01	2.00	33.00	PASS





Radiated Power (EIRP) for NR n66 / SCS 15KHz										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP(dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	1	DFT_BPSK	23.22	1.8	25.02	1.00	30.00	PASS
		25	0	DFT_QPSK	23.22	1.8	25.02	1.00	30.00	PASS
		12	6		23.22	1.8	25.02	1.00	30.00	PASS
		1	1		23.19	1.8	24.99	1.00	30.00	PASS
		1	23		23.22	1.8	25.02	1.00	30.00	PASS
		1	1	DFT_QAM16	23.12	1.8	24.92	1.00	30.00	PASS
		1	1	DFT_QAM64	21.51	1.8	23.31	1.00	30.00	PASS
		1	1	DFT_QAM256	19.3	1.8	21.10	1.00	30.00	PASS
		1	1	CP_QPSK	23.21	1.8	25.01	1.00	30.00	PASS
	Middle	1	1	DFT_BPSK	23.06	1.8	24.86	1.00	30.00	PASS
		25	0	DFT_QPSK	23.24	1.8	25.04	1.00	30.00	PASS
		12	6		23.24	1.8	25.04	1.00	30.00	PASS
		1	1		23.15	1.8	24.95	1.00	30.00	PASS
		1	23		23.21	1.8	25.01	1.00	30.00	PASS
		1	1	DFT_QAM16	23.03	1.8	24.83	1.00	30.00	PASS
		1	1	DFT_QAM64	21.51	1.8	23.31	1.00	30.00	PASS
		1	1	DFT_QAM256	19.38	1.8	21.18	1.00	30.00	PASS
		1	1	CP_QPSK	23.16	1.8	24.96	1.00	30.00	PASS
	Highest	1	1	DFT_BPSK	23.07	1.8	24.87	1.00	30.00	PASS
		25	0	DFT_QPSK	23.17	1.8	24.97	1.00	30.00	PASS
		12	6		23.18	1.8	24.98	1.00	30.00	PASS
		1	1		23.07	1.8	24.87	1.00	30.00	PASS
		1	23		23.07	1.8	24.87	1.00	30.00	PASS
		1	1	DFT_QAM16	23.12	1.8	24.92	1.00	30.00	PASS
		1	1	DFT_QAM64	21.55	1.8	23.35	1.00	30.00	PASS
		1	1	DFT_QAM256	19.39	1.8	21.19	1.00	30.00	PASS
		1	1	CP_QPSK	23.06	1.8	24.86	1.00	30.00	PASS
15	Lowest	1	1	DFT_BPSK	22.95	1.8	24.75	1.00	30.00	PASS
		75	0	DFT_QPSK	23.21	1.8	25.01	1.00	30.00	PASS
		36	18		23.15	1.8	24.95	1.00	30.00	PASS
		1	1		22.95	1.8	24.75	1.00	30.00	PASS
		1	77		23.04	1.8	24.84	1.00	30.00	PASS
		1	1	DFT_QAM16	23.18	1.8	24.98	1.00	30.00	PASS
		1	1	DFT_QAM64	21.39	1.8	23.19	1.00	30.00	PASS



		1	1	DFT_QAM256	19.24	1.8	21.04	1.00	30.00	PASS
		1	1	CP_QPSK	22.95	1.8	24.75	1.00	30.00	PASS
	Middle	1	1	DFT_BPSK	22.98	1.8	24.78	1.00	30.00	PASS
		75	0	DFT_QPSK	23.13	1.8	24.93	1.00	30.00	PASS
		36	18		23.05	1.8	24.85	1.00	30.00	PASS
		1	1		22.98	1.8	24.78	1.00	30.00	PASS
		1	77		23.01	1.8	24.81	1.00	30.00	PASS
		1	1	DFT_QAM16	22.8	1.8	24.60	1.00	30.00	PASS
		1	1	DFT_QAM64	21.39	1.8	23.19	1.00	30.00	PASS
		1	1	DFT_QAM256	19.3	1.8	21.10	1.00	30.00	PASS
		1	1	CP_QPSK	22.96	1.8	24.76	1.00	30.00	PASS
	Highest	1	1	DFT_BPSK	22.87	1.8	24.67	1.00	30.00	PASS
		75	0	DFT_QPSK	23.02	1.8	24.82	1.00	30.00	PASS
		36	18		23.02	1.8	24.82	1.00	30.00	PASS
		1	1		22.86	1.8	24.66	1.00	30.00	PASS
		1	77		22.97	1.8	24.77	1.00	30.00	PASS
		1	1	DFT_QAM16	22.71	1.8	24.51	1.00	30.00	PASS
		1	1	DFT_QAM64	21.2	1.8	23.00	1.00	30.00	PASS
		1	1	DFT_QAM256	19.23	1.8	21.03	1.00	30.00	PASS
		1	1	CP_QPSK	22.96	1.8	24.76	1.00	30.00	PASS
20	Lowest	1	1	DFT_BPSK	22.99	1.8	24.79	1.00	30.00	PASS
		100	0	DFT_QPSK	23.2	1.8	25.00	1.00	30.00	PASS
		50	25		23.08	1.8	24.88	1.00	30.00	PASS
		1	1		22.99	1.8	24.79	1.00	30.00	PASS
		1	104		23.15	1.8	24.95	1.00	30.00	PASS
		1	1	DFT_QAM16	22.93	1.8	24.73	1.00	30.00	PASS
		1	1	DFT_QAM64	21.43	1.8	23.23	1.00	30.00	PASS
		1	1	DFT_QAM256	19.38	1.8	21.18	1.00	30.00	PASS
		1	1	CP_QPSK	22.99	1.8	24.79	1.00	30.00	PASS
	Middle	1	1	DFT_BPSK	22.99	1.8	24.79	1.00	30.00	PASS
		100	0	DFT_QPSK	23.08	1.8	24.88	1.00	30.00	PASS
		50	25		23.07	1.8	24.87	1.00	30.00	PASS
		1	1		23	1.8	24.80	1.00	30.00	PASS
		1	104		23.08	1.8	24.88	1.00	30.00	PASS
		1	1	DFT_QAM16	22.81	1.8	24.61	1.00	30.00	PASS
		1	1	DFT_QAM64	21.4	1.8	23.20	1.00	30.00	PASS
		1	1	DFT_QAM256	19.23	1.8	21.03	1.00	30.00	PASS
		1	1	CP_QPSK	22.99	1.8	24.79	1.00	30.00	PASS



Highest	1	1	DFT_BPSK	22.94	1.8	24.74	1.00	30.00	PASS
	100	0	DFT_QPSK	23.03	1.8	24.83	1.00	30.00	PASS
	50	25		23.07	1.8	24.87	1.00	30.00	PASS
	1	1		22.94	1.8	24.74	1.00	30.00	PASS
	1	104		22.98	1.8	24.78	1.00	30.00	PASS
	1	1	DFT_QAM16	22.89	1.8	24.69	1.00	30.00	PASS
	1	1	DFT_QAM64	21.35	1.8	23.15	1.00	30.00	PASS
	1	1	DFT_QAM256	19.22	1.8	21.02	1.00	30.00	PASS
	1	1	CP_QPSK	22.94	1.8	24.74	1.00	30.00	PASS



6. OCCUPIED BANDWIDTH

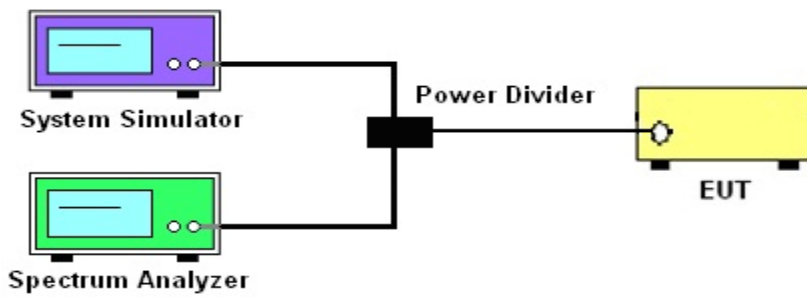
6.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

6.1.1 MEASUREMENT METHOD

1. The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

2. The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

6.1.2 TEST SETUP



6.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2 and 4.3.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer.
5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

6.1.4 MEASUREMENT RESULT

Note: The test data please reference to attachment “STS2108075W02_Appendix SA”.



7. CONDUCTED BAND EDGE

7.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

7.1.1 MEASUREMENT METHOD

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

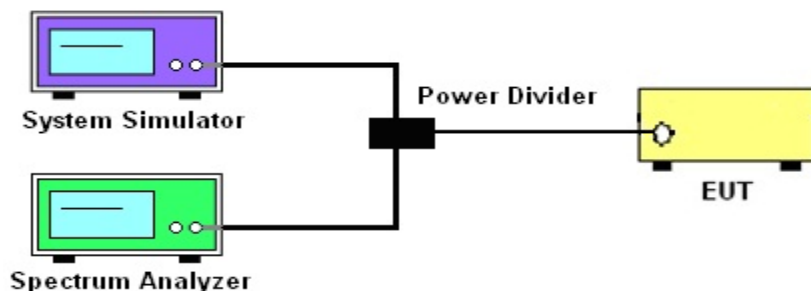
4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

7.1.2 TEST SETUP



7.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS/AVG detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}.$$

7.1.4 MEASUREMENT RESULT

Note: The test data please reference to attachment "STS2108075W02_Appendix SA".

8. CONDUCTED SPURIOUS EMISSION

8.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

8.1.1 MEASUREMENT METHOD

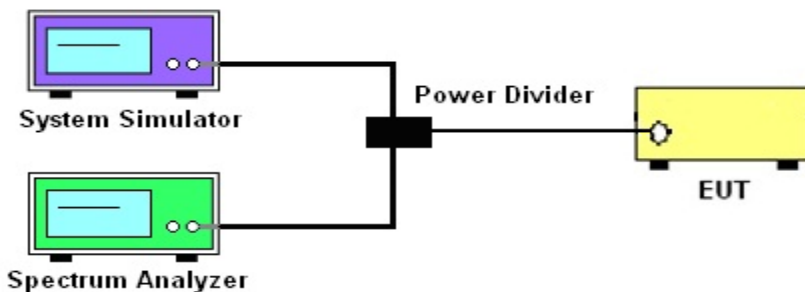
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7:

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

8.1.2 TEST SETUP



8.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$
 For Band 7: $P(W) - [43 + 10\log(P)] \text{ (dB)} = -25\text{dBm}$

8.1.4 TEST RESULTS

Note: The test data please reference to attachment "STS2108075W02_Appendix SA".

9. RADIATED SPURIOUS EMISSION

9.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

9.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. 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 Band 7 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.

9.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = Rx \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + Gain \text{ (dBi)} - 107 \text{ (dBuV to dBm)}$ The SA is calibrated using following setup.

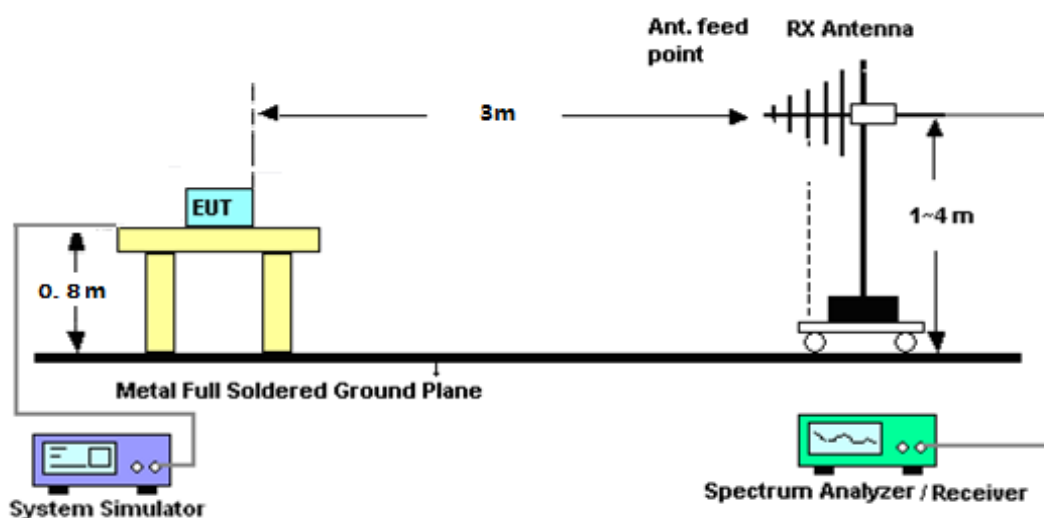
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

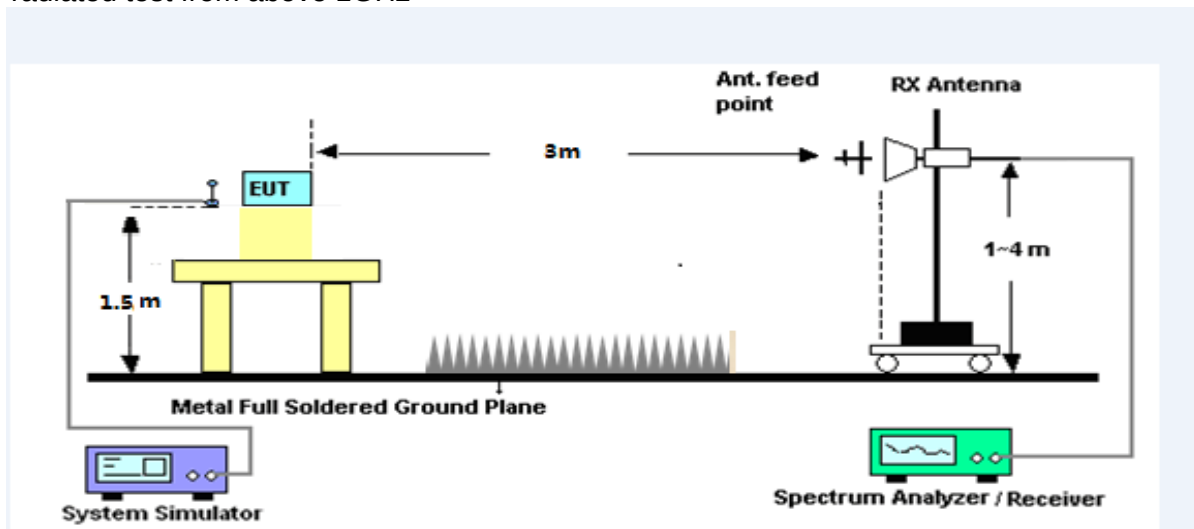
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

Power = P_{Mea} + AR_{pl}

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



9.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 Section 7 and ANSI C63.26 2015 Section 5.5.
2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm

For Band 7:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm

$P_{Mea} = S.G \text{ Level} + \text{Ant-Cable loss}; \text{Margin} = P_{Mea} - \text{Limit}.$



9.1.4 TEST RESULTS

NR n2 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3705.36	-34.06	12.60	12.93	-34.39	-13.00	-21.39	H
5557.23	-34.46	13.10	17.11	-38.47	-13.00	-25.47	H
7409.92	-33.29	11.50	22.20	-43.99	-13.00	-30.99	H
3705.36	-35.77	12.60	12.93	-36.10	-13.00	-23.10	V
5557.23	-34.44	13.10	17.11	-38.45	-13.00	-25.45	V
7409.92	-32.72	11.50	22.20	-43.42	-13.00	-30.42	V
NR n2 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.81	-34.61	12.60	12.93	-34.94	-13.00	-21.94	H
5639.87	-35.39	13.10	17.11	-39.40	-13.00	-26.40	H
7519.87	-33.58	11.50	22.20	-44.28	-13.00	-31.28	H
3759.81	-34.59	12.60	12.93	-34.92	-13.00	-21.92	V
5639.87	-33.92	13.10	17.11	-37.93	-13.00	-24.93	V
7519.87	-32.66	11.50	22.20	-43.36	-13.00	-30.36	V
NR n2 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3815.39	-34.67	12.60	12.93	-35.00	-13.00	-22.00	H
5722.12	-34.42	13.10	17.11	-38.43	-13.00	-25.43	H
7630.32	-33.27	11.50	22.20	-43.97	-13.00	-30.97	H
3815.39	-35.71	12.60	12.93	-36.04	-13.00	-23.04	V
5722.12	-34.47	13.10	17.11	-38.48	-13.00	-25.48	V
7630.32	-31.80	11.50	22.20	-42.50	-13.00	-29.50	V



NR n2 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3710.19	-34.92	12.60	12.93	-35.25	-13.00	-22.25	H
5565.39	-34.02	13.10	17.11	-38.03	-13.00	-25.03	H
7419.78	-33.34	11.50	22.20	-44.04	-13.00	-31.04	H
3710.19	-34.99	12.60	12.93	-35.32	-13.00	-22.32	V
5565.39	-34.25	13.10	17.11	-38.26	-13.00	-25.26	V
7419.78	-32.44	11.50	22.20	-43.14	-13.00	-30.14	V
NR n2 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.87	-34.94	12.60	12.93	-35.27	-13.00	-22.27	H
5639.86	-35.38	13.10	17.11	-39.39	-13.00	-26.39	H
7520.10	-33.49	11.50	22.20	-44.19	-13.00	-31.19	H
3759.87	-35.28	12.60	12.93	-35.61	-13.00	-22.61	V
5639.86	-33.83	13.10	17.11	-37.84	-13.00	-24.84	V
7520.10	-31.75	11.50	22.20	-42.45	-13.00	-29.45	V
NR n2 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3810.32	-34.00	12.60	12.93	-34.33	-13.00	-21.33	H
5714.85	-34.83	13.10	17.11	-38.84	-13.00	-25.84	H
7619.93	-32.97	11.50	22.20	-43.67	-13.00	-30.67	H
3810.32	-35.34	12.60	12.93	-35.67	-13.00	-22.67	V
5714.85	-34.44	13.10	17.11	-38.45	-13.00	-25.45	V
7619.93	-32.82	11.50	22.20	-43.52	-13.00	-30.52	V



NR n2 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3715.07	-33.98	12.60	12.93	-34.31	-13.00	-21.31	H
5572.09	-34.00	13.10	17.11	-38.01	-13.00	-25.01	H
7430.44	-32.36	11.50	22.20	-43.06	-13.00	-30.06	H
3715.07	-35.77	12.60	12.93	-36.10	-13.00	-23.10	V
5572.09	-34.66	13.10	17.11	-38.67	-13.00	-25.67	V
7430.44	-32.20	11.50	22.20	-42.90	-13.00	-29.90	V
NR n2 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.96	-33.67	12.60	12.93	-34.00	-13.00	-21.00	H
5639.86	-35.12	13.10	17.11	-39.13	-13.00	-26.13	H
7519.90	-32.72	11.50	22.20	-43.42	-13.00	-30.42	H
3759.96	-35.28	12.60	12.93	-35.61	-13.00	-22.61	V
5639.86	-34.99	13.10	17.11	-39.00	-13.00	-26.00	V
7519.90	-33.15	11.50	22.20	-43.85	-13.00	-30.85	V
NR n2 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3805.01	-33.91	12.60	12.93	-34.24	-13.00	-21.24	H
5707.53	-34.57	13.10	17.11	-38.58	-13.00	-25.58	H
7609.97	-32.78	11.50	22.20	-43.48	-13.00	-30.48	H
3805.01	-34.63	12.60	12.93	-34.96	-13.00	-21.96	V
5707.53	-34.58	13.10	17.11	-38.59	-13.00	-25.59	V
7609.97	-32.10	11.50	22.20	-42.80	-13.00	-29.80	V



NR n2 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3720.14	-34.73	12.60	12.93	-35.06	-13.00	-22.06	H
5580.34	-34.27	13.10	17.11	-38.28	-13.00	-25.28	H
7439.69	-32.85	11.50	22.20	-43.55	-13.00	-30.55	H
3720.14	-34.77	12.60	12.93	-35.10	-13.00	-22.10	V
5580.34	-35.12	13.10	17.11	-39.13	-13.00	-26.13	V
7439.69	-33.19	11.50	22.20	-43.89	-13.00	-30.89	V
NR n2 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.17	-33.95	12.60	12.93	-34.28	-13.00	-21.28	H
5640.00	-35.40	13.10	17.11	-39.41	-13.00	-26.41	H
7519.85	-33.57	11.50	22.20	-44.27	-13.00	-31.27	H
3760.17	-35.17	12.60	12.93	-35.50	-13.00	-22.50	V
5640.00	-34.07	13.10	17.11	-38.08	-13.00	-25.08	V
7519.85	-33.19	11.50	22.20	-43.89	-13.00	-30.89	V
NR n2 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3800.02	-34.55	12.60	12.93	-34.88	-13.00	-21.88	H
5699.93	-34.11	13.10	17.11	-38.12	-13.00	-25.12	H
7599.97	-33.38	11.50	22.20	-44.08	-13.00	-31.08	H
3800.02	-34.69	12.60	12.93	-35.02	-13.00	-22.02	V
5699.93	-34.33	13.10	17.11	-38.34	-13.00	-25.34	V
7599.97	-33.17	11.50	22.20	-43.87	-13.00	-30.87	V



NR n5 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.29	-34.59	9.56	9.72	-34.75	-13.00	-21.75	H
2478.96	-35.25	10.50	10.86	-35.61	-13.00	-22.61	H
3305.57	-32.87	12.78	11.57	-31.66	-13.00	-18.66	H
1652.29	-35.43	9.56	9.72	-35.59	-13.00	-22.59	V
2478.96	-34.51	10.50	10.86	-34.87	-13.00	-21.87	V
3305.57	-31.82	12.78	11.57	-30.61	-13.00	-17.61	V
LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.58	-34.54	9.56	9.72	-34.70	-13.00	-21.70	H
2508.84	-34.79	10.50	10.86	-35.15	-13.00	-22.15	H
3345.30	-32.60	12.78	11.57	-31.39	-13.00	-18.39	H
1672.58	-35.58	9.56	9.72	-35.74	-13.00	-22.74	V
2508.84	-34.77	10.50	10.86	-35.13	-13.00	-22.13	V
3345.30	-32.32	12.78	11.57	-31.11	-13.00	-18.11	V
NR n5 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1692.19	-34.87	9.56	9.72	-35.03	-13.00	-22.03	H
2538.63	-35.30	10.50	10.86	-35.66	-13.00	-22.66	H
3385.85	-32.57	12.78	11.57	-31.36	-13.00	-18.36	H
1692.19	-35.81	9.56	9.72	-35.97	-13.00	-22.97	V
2538.63	-34.34	10.50	10.86	-34.70	-13.00	-21.70	V
3385.85	-32.49	12.78	11.57	-31.28	-13.00	-18.28	V



NR n5 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1657.89	-33.88	9.56	9.72	-34.04	-13.00	-21.04	H
2486.28	-34.48	10.50	10.86	-34.84	-13.00	-21.84	H
3315.08	-32.37	12.78	11.57	-31.16	-13.00	-18.16	H
1657.89	-35.16	9.56	9.72	-35.32	-13.00	-22.32	V
2486.28	-34.60	10.50	10.86	-34.96	-13.00	-21.96	V
3315.08	-31.96	12.78	11.57	-30.75	-13.00	-17.75	V
NR n5 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.56	-34.12	9.56	9.72	-34.28	-13.00	-21.28	H
2508.86	-35.20	10.50	10.86	-35.56	-13.00	-22.56	H
3345.31	-32.19	12.78	11.57	-30.98	-13.00	-17.98	H
1672.56	-34.56	9.56	9.72	-34.72	-13.00	-21.72	V
2508.86	-34.83	10.50	10.86	-35.19	-13.00	-22.19	V
3345.31	-31.90	12.78	11.57	-30.69	-13.00	-17.69	V
NR n5 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1687.46	-33.48	9.56	9.72	-33.64	-13.00	-20.64	H
2531.39	-34.98	10.50	10.86	-35.34	-13.00	-22.34	H
3375.63	-32.53	12.78	11.57	-31.32	-13.00	-18.32	H
1687.46	-35.48	9.56	9.72	-35.64	-13.00	-22.64	V
2531.39	-34.71	10.50	10.86	-35.07	-13.00	-22.07	V
3375.63	-32.68	12.78	11.57	-31.47	-13.00	-18.47	V



NR n5 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1663.51	-33.90	9.56	9.72	-34.06	-13.00	-21.06	H
2494.63	-34.45	10.50	10.86	-34.81	-13.00	-21.81	H
3326.77	-33.45	12.78	11.57	-32.24	-13.00	-19.24	H
1663.51	-35.18	9.56	9.72	-35.34	-13.00	-22.34	V
2494.63	-33.88	10.50	10.86	-34.24	-13.00	-21.24	V
3326.77	-32.63	12.78	11.57	-31.42	-13.00	-18.42	V
NR n5 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.51	-33.61	9.56	9.72	-33.77	-13.00	-20.77	H
2509.07	-34.50	10.50	10.86	-34.86	-13.00	-21.86	H
3345.77	-32.68	12.78	11.57	-31.47	-13.00	-18.47	H
1672.51	-35.56	9.56	9.72	-35.72	-13.00	-22.72	V
2509.07	-34.61	10.50	10.86	-34.97	-13.00	-21.97	V
3345.77	-32.95	12.78	11.57	-31.74	-13.00	-18.74	V
NR n5 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1682.68	-33.67	9.56	9.72	-33.83	-13.00	-20.83	H
2524.55	-34.54	10.50	10.86	-34.90	-13.00	-21.90	H
3365.86	-33.41	12.78	11.57	-32.20	-13.00	-19.20	H
1682.68	-34.66	9.56	9.72	-34.82	-13.00	-21.82	V
2524.55	-33.79	10.50	10.86	-34.15	-13.00	-21.15	V
3365.86	-31.82	12.78	11.57	-30.61	-13.00	-17.61	V



NR n5 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1667.73	-34.71	9.56	9.72	-34.87	-13.00	-21.87	H
2502.01	-34.93	10.50	10.86	-35.29	-13.00	-22.29	H
3335.79	-32.72	12.78	11.57	-31.51	-13.00	-18.51	H
1667.73	-35.74	9.56	9.72	-35.90	-13.00	-22.90	V
2502.01	-35.13	10.50	10.86	-35.49	-13.00	-22.49	V
3335.79	-32.43	12.78	11.57	-31.22	-13.00	-18.22	V
LTE Band 5 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.17	-34.73	9.56	9.72	-34.89	-13.00	-21.89	H
2508.99	-34.21	10.50	10.86	-34.57	-13.00	-21.57	H
3345.57	-32.22	12.78	11.57	-31.01	-13.00	-18.01	H
1672.17	-35.87	9.56	9.72	-36.03	-13.00	-23.03	V
2508.99	-34.43	10.50	10.86	-34.79	-13.00	-21.79	V
3345.57	-32.39	12.78	11.57	-31.18	-13.00	-18.18	V
NR n5 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1677.75	-34.33	9.56	9.72	-34.49	-13.00	-21.49	H
2517.08	-34.50	10.50	10.86	-34.86	-13.00	-21.86	H
3355.75	-33.41	12.78	11.57	-32.20	-13.00	-19.20	H
1677.75	-35.19	9.56	9.72	-35.35	-13.00	-22.35	V
2517.08	-33.91	10.50	10.86	-34.27	-13.00	-21.27	V
3355.75	-32.65	12.78	11.57	-31.44	-13.00	-18.44	V



NR n7 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5005.05	-34.29	12.66	15.86	-37.49	-25.00	-12.49	H
7507.60	-34.62	11.46	19.28	-42.44	-25.00	-17.44	H
10010.32	-33.40	12.79	23.19	-43.80	-25.00	-18.80	H
5005.05	-35.30	12.66	15.86	-38.50	-25.00	-13.50	V
7507.60	-34.71	11.46	19.28	-42.53	-25.00	-17.53	V
10010.32	-32.87	12.79	23.19	-43.27	-25.00	-18.27	V
NR n7 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.60	-33.83	12.72	15.86	-36.97	-25.00	-11.97	H
7604.77	-34.50	11.46	19.28	-42.32	-25.00	-17.32	H
10139.94	-32.91	12.09	23.19	-44.01	-25.00	-19.01	H
5069.60	-35.44	12.72	15.86	-38.58	-25.00	-13.58	V
7604.77	-35.08	11.46	19.28	-42.90	-25.00	-17.90	V
10139.94	-33.07	12.09	23.19	-44.17	-25.00	-19.17	V
NR n7 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5133.66	-33.56	12.76	15.86	-36.66	-25.00	-11.66	H
7701.13	-34.54	11.45	19.28	-42.37	-25.00	-17.37	H
10268.29	-32.29	12.28	23.19	-43.20	-25.00	-18.20	H
5133.66	-34.55	12.76	15.86	-37.65	-25.00	-12.65	V
7701.13	-35.19	11.45	19.28	-43.02	-25.00	-18.02	V
10268.29	-32.97	12.28	23.19	-43.88	-25.00	-18.88	V



NR n7 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5010.15	-34.05	12.66	15.86	-37.25	-25.00	-12.25	H
7515.39	-34.14	11.46	19.28	-41.96	-25.00	-16.96	H
10020.48	-32.68	12.79	23.19	-43.08	-25.00	-18.08	H
5010.15	-35.36	12.66	15.86	-38.56	-25.00	-13.56	V
7515.39	-34.56	11.46	19.28	-42.38	-25.00	-17.38	V
10020.48	-32.49	12.79	23.19	-42.89	-25.00	-17.89	V
NR n7 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.68	-33.50	12.72	15.86	-36.64	-25.00	-11.64	H
7604.91	-34.19	11.46	19.28	-42.01	-25.00	-17.01	H
10139.84	-33.02	12.09	23.19	-44.12	-25.00	-19.12	H
5069.68	-35.73	12.72	15.86	-38.87	-25.00	-13.87	V
7604.91	-34.81	11.46	19.28	-42.63	-25.00	-17.63	V
10139.84	-32.66	12.09	23.19	-43.76	-25.00	-18.76	V
NR n7 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5128.90	-33.96	12.76	15.86	-37.06	-25.00	-12.06	H
7694.01	-34.22	11.45	19.28	-42.05	-25.00	-17.05	H
10258.78	-33.42	12.28	23.19	-44.33	-25.00	-19.33	H
5128.90	-35.21	12.76	15.86	-38.31	-25.00	-13.31	V
7694.01	-34.01	11.45	19.28	-41.84	-25.00	-16.84	V
10258.78	-32.96	12.28	23.19	-43.87	-25.00	-18.87	V



NR n7 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5015.75	-33.58	12.66	15.86	-36.78	-25.00	-11.78	H
7523.90	-34.30	11.46	19.28	-42.12	-25.00	-17.12	H
10031.65	-33.58	12.79	23.19	-43.98	-25.00	-18.98	H
5015.75	-35.39	12.66	15.86	-38.59	-25.00	-13.59	V
7523.90	-34.65	11.46	19.28	-42.47	-25.00	-17.47	V
10031.65	-32.28	12.79	23.19	-42.68	-25.00	-17.68	V
NR n7 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.84	-34.20	12.72	15.86	-37.34	-25.00	-12.34	H
7605.05	-34.29	11.46	19.28	-42.11	-25.00	-17.11	H
10139.81	-32.89	12.09	23.19	-43.99	-25.00	-18.99	H
5069.84	-35.90	12.72	15.86	-39.04	-25.00	-14.04	V
7605.05	-33.76	11.46	19.28	-41.58	-25.00	-16.58	V
10139.81	-32.12	12.09	23.19	-43.22	-25.00	-18.22	V
NR n7 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5123.46	-33.97	12.76	15.86	-37.07	-25.00	-12.07	H
7524.07	-34.65	11.45	19.28	-42.48	-25.00	-17.48	H
10032.17	-32.92	12.28	23.19	-43.83	-25.00	-18.83	H
5123.46	-35.14	12.76	15.86	-38.24	-25.00	-13.24	V
7524.07	-34.40	11.45	19.28	-42.23	-25.00	-17.23	V
10032.17	-32.72	12.28	23.19	-43.63	-25.00	-18.63	V



NR n7 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5020.81	-33.59	12.66	15.86	-36.79	-25.00	-11.79	H
7530.83	-35.10	11.46	19.28	-42.92	-25.00	-17.92	H
10258.99	-32.71	12.79	23.19	-43.11	-25.00	-18.11	H
5020.81	-35.01	12.66	15.86	-38.21	-25.00	-13.21	V
7530.83	-34.98	11.46	19.28	-42.80	-25.00	-17.80	V
10258.99	-32.66	12.79	23.19	-43.06	-25.00	-18.06	V
NR n7 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.74	-34.55	12.72	15.86	-37.69	-25.00	-12.69	H
7605.10	-34.97	11.46	19.28	-42.79	-25.00	-17.79	H
10139.81	-32.25	12.09	23.19	-43.35	-25.00	-18.35	H
5069.74	-36.01	12.72	15.86	-39.15	-25.00	-14.15	V
7605.10	-35.20	11.46	19.28	-43.02	-25.00	-18.02	V
10139.81	-31.79	12.09	23.19	-42.89	-25.00	-17.89	V
NR n7 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5118.88	-33.87	12.76	15.86	-36.97	-25.00	-11.97	H
7678.37	-35.42	11.45	19.28	-43.25	-25.00	-18.25	H
10238.02	-32.50	12.28	23.19	-43.41	-25.00	-18.41	H
5118.88	-34.90	12.76	15.86	-38.00	-25.00	-13.00	V
7678.37	-34.02	11.45	19.28	-41.85	-25.00	-16.85	V
10238.02	-32.13	12.28	23.19	-43.04	-25.00	-18.04	V



NR n41 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5012.19	-34.46	12.66	15.86	-37.66	-25.00	-12.66	H
7518.46	-34.09	11.46	19.28	-41.91	-25.00	-16.91	H
10023.90	-33.41	12.79	23.19	-43.81	-25.00	-18.81	H
5012.19	-35.02	12.66	15.86	-38.22	-25.00	-13.22	V
7518.46	-34.72	11.46	19.28	-42.54	-25.00	-17.54	V
10023.90	-33.18	12.79	23.19	-43.58	-25.00	-18.58	V
NR n41 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5185.98	-33.76	12.72	15.86	-36.90	-25.00	-11.90	H
7779.30	-34.23	11.46	19.28	-42.05	-25.00	-17.05	H
10372.04	-33.00	12.09	23.19	-44.10	-25.00	-19.10	H
5185.98	-35.24	12.72	15.86	-38.38	-25.00	-13.38	V
7779.30	-34.55	11.46	19.28	-42.37	-25.00	-17.37	V
10372.04	-31.90	12.09	23.19	-43.00	-25.00	-18.00	V
NR n41 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5359.67	-33.47	12.76	15.86	-36.57	-25.00	-11.57	H
8040.07	-34.23	11.45	19.28	-42.06	-25.00	-17.06	H
10719.92	-33.31	12.28	23.19	-44.22	-25.00	-19.22	H
5359.67	-34.80	12.76	15.86	-37.90	-25.00	-12.90	V
8040.07	-33.95	11.45	19.28	-41.78	-25.00	-16.78	V
10719.92	-31.85	12.28	23.19	-42.76	-25.00	-17.76	V



NR n41 / 50MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5041.19	-34.26	12.66	15.86	-37.46	-25.00	-12.46	H
7562.59	-34.75	11.46	19.28	-42.57	-25.00	-17.57	H
10084.25	-33.39	12.79	23.19	-43.79	-25.00	-18.79	H
5041.19	-35.17	12.66	15.86	-38.37	-25.00	-13.37	V
7562.59	-34.06	11.46	19.28	-41.88	-25.00	-16.88	V
10084.25	-31.71	12.79	23.19	-42.11	-25.00	-17.11	V
NR n41 / 50MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5186.74	-34.84	12.72	15.86	-37.98	-25.00	-12.98	H
7779.66	-35.20	11.46	19.28	-43.02	-25.00	-18.02	H
10371.27	-33.06	12.09	23.19	-44.16	-25.00	-19.16	H
5186.74	-35.40	12.72	15.86	-38.54	-25.00	-13.54	V
7779.66	-34.35	11.46	19.28	-42.17	-25.00	-17.17	V
10371.27	-32.42	12.09	23.19	-43.52	-25.00	-18.52	V
NR n41 / 50MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5329.22	-34.57	12.76	15.86	-37.67	-25.00	-12.67	H
7994.60	-34.34	11.45	19.28	-42.17	-25.00	-17.17	H
10371.41	-32.17	12.28	23.19	-43.08	-25.00	-18.08	H
5329.22	-35.55	12.76	15.86	-38.65	-25.00	-13.65	V
7994.60	-34.43	11.45	19.28	-42.26	-25.00	-17.26	V
10371.41	-31.81	12.28	23.19	-42.72	-25.00	-17.72	V



NR n41 / 100MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5091.41	-33.72	12.66	15.86	-36.92	-25.00	-11.92	H
7638.32	-34.99	11.46	19.28	-42.81	-25.00	-17.81	H
10183.91	-33.12	12.79	23.19	-43.52	-25.00	-18.52	H
5091.41	-35.76	12.66	15.86	-38.96	-25.00	-13.96	V
7638.32	-34.47	11.46	19.28	-42.29	-25.00	-17.29	V
10183.91	-33.00	12.79	23.19	-43.40	-25.00	-18.40	V
NR n41 / 100MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5185.82	-34.13	12.72	15.86	-37.27	-25.00	-12.27	H
7778.69	-34.96	11.46	19.28	-42.78	-25.00	-17.78	H
10372.18	-32.85	12.09	23.19	-43.95	-25.00	-18.95	H
5185.82	-35.22	12.72	15.86	-38.36	-25.00	-13.36	V
7778.69	-34.09	11.46	19.28	-41.91	-25.00	-16.91	V
10372.18	-33.00	12.09	23.19	-44.10	-25.00	-19.10	V
NR n41 / 100MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5279.59	-33.79	12.76	15.86	-36.89	-25.00	-11.89	H
7920.12	-35.47	11.45	19.28	-43.30	-25.00	-18.30	H
10560.07	-33.11	12.28	23.19	-44.02	-25.00	-19.02	H
5279.59	-34.93	12.76	15.86	-38.03	-25.00	-13.03	V
7920.12	-34.50	11.45	19.28	-42.33	-25.00	-17.33	V
10560.07	-32.25	12.28	23.19	-43.16	-25.00	-18.16	V



NR n66 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3425.04	-33.55	12.90	12.56	-33.21	-13.00	-20.21	H
5137.29	-35.04	13.10	16.32	-38.26	-13.00	-25.26	H
6850.13	-32.79	12.33	21.13	-41.59	-13.00	-28.59	H
3425.04	-34.67	12.90	12.56	-34.33	-13.00	-21.33	V
5137.29	-34.26	13.10	16.32	-37.48	-13.00	-24.48	V
6850.13	-31.94	12.33	21.13	-40.74	-13.00	-27.74	V
NR n66 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.23	-34.92	12.90	12.56	-34.58	-13.00	-21.58	H
5234.93	-34.40	13.10	16.32	-37.62	-13.00	-24.62	H
6979.95	-33.47	12.33	21.13	-42.27	-13.00	-29.27	H
3490.23	-35.01	12.90	12.56	-34.67	-13.00	-21.67	V
5234.93	-34.37	13.10	16.32	-37.59	-13.00	-24.59	V
6979.95	-33.09	12.33	21.13	-41.89	-13.00	-28.89	V
NR n66 / 5MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3557.83	-33.97	12.90	12.56	-33.63	-13.00	-20.63	H
52353.83	-34.41	13.10	16.32	-37.63	-13.00	-24.63	H
7110.15	-32.89	12.33	21.13	-41.69	-13.00	-28.69	H
3557.83	-35.16	12.90	12.56	-34.82	-13.00	-21.82	V
52353.83	-34.14	13.10	16.32	-37.36	-13.00	-24.36	V
7110.15	-32.99	12.33	21.13	-41.79	-13.00	-28.79	V



NR n66 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3429.82	-34.46	12.90	12.56	-34.12	-13.00	-21.12	H
5145.03	-34.42	13.10	16.32	-37.64	-13.00	-24.64	H
6880.16	-32.24	12.33	21.13	-41.04	-13.00	-28.04	H
3429.82	-35.94	12.90	12.56	-35.60	-13.00	-22.60	V
5145.03	-35.21	13.10	16.32	-38.43	-13.00	-25.43	V
6880.16	-33.15	12.33	21.13	-41.95	-13.00	-28.95	V
NR n66 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3489.79	-33.98	12.90	12.56	-33.64	-13.00	-20.64	H
5235.27	-34.85	13.10	16.32	-38.07	-13.00	-25.07	H
6979.85	-32.34	12.33	21.13	-41.14	-13.00	-28.14	H
3489.79	-35.93	12.90	12.56	-35.59	-13.00	-22.59	V
5235.27	-33.79	13.10	16.32	-37.01	-13.00	-24.01	V
6979.85	-31.71	12.33	21.13	-40.51	-13.00	-27.51	V
NR n66 / 10MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3550.61	-34.19	12.90	12.56	-33.85	-13.00	-20.85	H
5235.47	-35.44	13.10	16.32	-38.66	-13.00	-25.66	H
7100.05	-32.18	12.33	21.13	-40.98	-13.00	-27.98	H
3550.61	-35.73	12.90	12.56	-35.39	-13.00	-22.39	V
5235.47	-34.90	13.10	16.32	-38.12	-13.00	-25.12	V
7100.05	-32.11	12.33	21.13	-40.91	-13.00	-27.91	V



NR n66 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3435.06	-33.61	12.90	12.56	-33.27	-13.00	-20.27	H
5152.23	-34.60	13.10	16.32	-37.82	-13.00	-24.82	H
6870.02	-33.52	12.33	21.13	-42.32	-13.00	-29.32	H
3435.06	-34.75	12.90	12.56	-34.41	-13.00	-21.41	V
5152.23	-35.19	13.10	16.32	-38.41	-13.00	-25.41	V
6870.02	-32.27	12.33	21.13	-41.07	-13.00	-28.07	V
NR n66 /15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.04	-34.38	12.90	12.56	-34.04	-13.00	-21.04	H
5235.05	-34.65	13.10	16.32	-37.87	-13.00	-24.87	H
6979.95	-32.75	12.33	21.13	-41.55	-13.00	-28.55	H
3490.04	-35.16	12.90	12.56	-34.82	-13.00	-21.82	V
5235.05	-34.38	13.10	16.32	-37.60	-13.00	-24.60	V
6979.95	-31.91	12.33	21.13	-40.71	-13.00	-27.71	V
NR n66 / 15MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3544.90	-33.93	12.90	12.56	-33.59	-13.00	-20.59	H
5332.52	-35.45	13.10	16.32	-38.67	-13.00	-25.67	H
7090.18	-32.31	12.33	21.13	-41.11	-13.00	-28.11	H
3544.90	-35.00	12.90	12.56	-34.66	-13.00	-21.66	V
5332.52	-35.20	13.10	16.32	-38.42	-13.00	-25.42	V
7090.18	-32.30	12.33	21.13	-41.10	-13.00	-28.10	V



NR n66 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3440.00	-34.02	12.90	12.56	-33.68	-13.00	-20.68	H
5159.82	-34.64	13.10	16.32	-37.86	-13.00	-24.86	H
6880.06	-33.54	12.33	21.13	-42.34	-13.00	-29.34	H
3440.00	-35.85	12.90	12.56	-35.51	-13.00	-22.51	V
5159.82	-34.14	13.10	16.32	-37.36	-13.00	-24.36	V
6880.06	-32.66	12.33	21.13	-41.46	-13.00	-28.46	V
NR n66 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3489.84	-33.62	12.90	12.56	-33.28	-13.00	-20.28	H
5235.20	-34.51	13.10	16.32	-37.73	-13.00	-24.73	H
6979.87	-33.65	12.33	21.13	-42.45	-13.00	-29.45	H
3489.84	-35.60	12.90	12.56	-35.26	-13.00	-22.26	V
5235.20	-34.04	13.10	16.32	-37.26	-13.00	-24.26	V
6979.87	-32.41	12.33	21.13	-41.21	-13.00	-28.21	V
NR n66 / 20MHz / QPSK / RB Size 1 Offset 1/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3540.09	-34.59	12.90	12.56	-34.25	-13.00	-21.25	H
5310.27	-34.48	13.10	16.32	-37.70	-13.00	-24.70	H
7080.81	-32.83	12.33	21.13	-41.63	-13.00	-28.63	H
3540.09	-36.00	12.90	12.56	-35.66	-13.00	-22.66	V
5310.27	-34.86	13.10	16.32	-38.08	-13.00	-25.08	V
7080.81	-32.80	12.33	21.13	-41.60	-13.00	-28.60	V

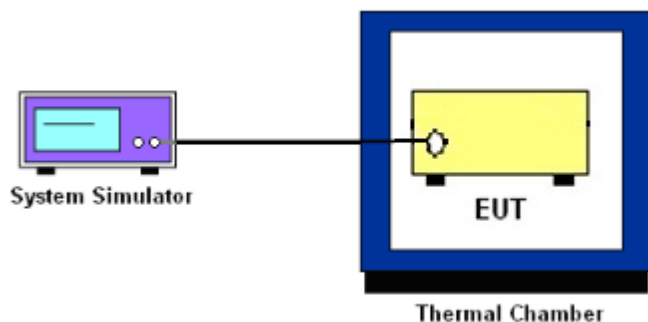
10. FREQUENCY STABILITY

10.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

10.1.2 TEST SETUP



10.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

10.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

1. The testing follows FCC KDB 971168 D01v01r03 Section 9.
2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.



10.1.5 TEST RESULTS

NR n2 (DFT_BPSK) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	21.78	0.012	2.5ppm	PASS
40		32.94	0.018		
30		22.81	0.012		
20		34.13	0.018		
10		15.05	0.008		
0		17.31	0.009		
-10		22.48	0.012		
-20		14.13	0.008		
-30		19.35	0.010		
20	Maximum Voltage	30.70	0.016		
20	BEP	12.02	0.006		

NR n2 (DFT_QPSK) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	27.64	0.015	2.5ppm	PASS
40		16.24	0.009		
30		18.20	0.010		
20		12.52	0.007		
10		23.82	0.013		
0		30.77	0.016		
-10		22.11	0.012		
-20		24.80	0.013		
-30		15.83	0.008		
20	Maximum Voltage	31.48	0.017		
20	BEP	32.56	0.017		



NR n5 (DFT_BPSK) / 836.5MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	36.10	0.051	2.5ppm	PASS
40		18.57	0.026		
30		14.63	0.021		
20		35.94	0.051		
10		32.08	0.045		
0		27.10	0.038		
-10		29.63	0.004		
-20		19.85	0.028		
-30		21.81	0.031		
20	Maximum Voltage	32.85	0.046		
20	BEP	24.57	0.035		

NR n5 (DFT_QPSK) / 836.5MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	25.98	0.037	2.5ppm	PASS
40		25.20	0.035		
30		34.94	0.049		
20		29.76	0.042		
10		32.41	0.046		
0		30.19	0.043		
-10		22.75	0.003		
-20		27.22	0.038		
-30		17.31	0.024		
20	Maximum Voltage	20.32	0.029		
20	BEP	24.97	0.035		



NR n7 (DFT_BPSK) / 2535MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	27.76	0.015	2.5ppm	PASS
40		25.91	0.014		
30		36.04	0.019		
20		31.60	0.017		
10		15.95	0.008		
0		29.09	0.015		
-10		33.62	0.018		
-20		35.81	0.019		
-30		33.51	0.018		
20	Maximum Voltage	14.16	0.008		
20	BEP	24.70	0.013		

NR n7 (DFT_QPSK) / 2535MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	27.87	0.015	2.5ppm	PASS
40		34.59	0.018		
30		21.37	0.011		
20		33.79	0.018		
10		31.98	0.017		
0		28.18	0.015		
-10		24.77	0.013		
-20		29.54	0.016		
-30		16.08	0.009		
20	Maximum Voltage	36.01	0.019		
20	BEP	25.77	0.014		



NR n41 (DFT_BPSK) / 2592.99MHz / BW100M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	25.67	0.014	2.5ppm	PASS
40		31.94	0.017		
30		30.48	0.016		
20		34.21	0.018		
10		30.95	0.016		
0		28.01	0.015		
-10		14.02	0.007		
-20		33.50	0.018		
-30		16.18	0.009		
20	Maximum Voltage	33.06	0.018		
20	BEP	26.58	0.014		

NR n41 (DFT_QPSK) / 2592.99MHz / BW100M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	29.18	0.016	2.5ppm	PASS
40		14.31	0.008		
30		20.49	0.011		
20		18.86	0.010		
10		29.65	0.016		
0		20.97	0.011		
-10		28.46	0.015		
-20		16.41	0.009		
-30		21.01	0.011		
20	Maximum Voltage	27.56	0.015		
20	BEP	23.31	0.012		



NR n66 (DFT_BPSK) / 1745MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	16.91	0.009	2.5ppm	PASS
40		23.52	0.013		
30		15.77	0.008		
20		16.25	0.009		
10		24.62	0.013		
0		22.27	0.012		
-10		35.35	0.019		
-20		12.74	0.007		
-30		26.32	0.014		
20	Maximum Voltage	28.41	0.015		
20	BEP	34.30	0.018		

NR n66 (DFT_QPSK) / 1745MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	31.30	0.017	2.5ppm	PASS
40		29.83	0.016		
30		28.06	0.015		
20		34.23	0.018		
10		27.28	0.015		
0		11.64	0.006		
-10		31.50	0.017		
-20		25.70	0.014		
-30		15.97	0.008		
20	Maximum Voltage	12.15	0.006		
20	BEP	26.16	0.014		



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※

