

RF TEST REPORT

Applicant	Smawave Technology Co. ,Ltd
FCC ID	2AU8HSDC810
Product	Ruggedized Router
Model	SDC810-b
Report No.	R2411A1799-R3V1
Issue Date	March 31, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2/ FCC CFR 47 Part 96E**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Xu Ying

Approved by: Xu Kai

Eurofins TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000

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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	March 14, 2025
Rev.1	Update description.	March 31, 2025
Note: This revised report (Report No.: R2411A1799-R3V1) supersedes and replaces the previously issued report (Report No.: R2411A1799-R3). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

No.	Test Case	Clause in FCC rules	Verdict
1	Maximum Effective Isotropic Radiated Power and Maximum Power Spectral Density	96.41(b)	PASS ^{Note 1}
2	Occupied Bandwidth	Refer to the Module report (Report No.: 2303RSU050-U6; 2303RSU050-U11 FCC ID: XMR2023RG520NNA, Grant date: 05/07/2023)	
3	Band Edge Compliance		
4	Peak-to-Average Power Ratio		
5	Frequency Stability		
6	Spurious Emissions at Antenna Terminals		
7	End User Device Additional Requirements (CBSD Protocol)		
8	Radiated Spurious Emission	2.1051 96.41(e)	PASS
Date of Testing: September 18, 2024 ~ October 31, 2024 Date of Sample Received: September 12, 2024			
Note: 1. Because of the change of antenna gain, ERP/EIRP need to be re-evaluated. 2. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <https://www.eurofins.com/electrical-and-electronics>
E-mail: Kain.Xu@cpt.eurofinscn.com

2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Smawave Technology Co. ,Ltd.
Applicant address	2/F, Building 8, 1001 North Qinzhou Road, Xuhui District, Shanghai, China
Manufacturer	Smawave Technology Co. ,Ltd.
Manufacturer address	2/F, Building 8, 1001 North Qinzhou Road, Xuhui District, Shanghai, China

2.2. General Information

EUT Description				
Model	SDC810-b			
Lab internal SN	R2411A1799/S01			
Hardware Version	V1.0			
Software Version	SQA4040_NA_NDAC_V1.1.5			
Power Supply	AC adapter			
Antenna Type	External Antenna			
Rated Power Supply Voltage	12 VDC			
Operating Voltage	Minimum: 8VDC Maximum: 24VDC			
Operating Temperature	Lowest: -40°C Highest: +70°C			
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)	Gain (dBi)
	LTE Band 48	3550 ~ 3700	3550 ~ 3700	0.59
	NR Band n48	3550 ~ 3700	3550 ~ 3700	0.59
LTE UL CA Band(s)	CA_48C			
UL-MIMO Band(s)	NR n48			
Test Modulation	(LTE) QPSK, 16QAM, 64QAM, 256QAM; (NR) CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM; DFT-s OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM			
LTE Category	16			
Maximum E.I.R.P.	LTE Band 48:		23.42 dBm/10MHz	
	CA_48C		21.60 dBm/10MHz	
	NR Band n48:		22.97 dBm/10MHz	
	NR Band n48 (MIMO):		22.17 dBm/10MHz	
EUT Accessory				
Adapter	Manufacturer: SHENZHEN TOPOW ELECTRONICS CO.,LTD. Model: BY-SKY120200U71L			
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.				

3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC 47 CFR Part 96E (2024)

FCC CFR47 Part 2 (2024)

Reference standard:

ANSI C63.26-2015

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

FCC KDB 940660 D01 Part 96 CBRS Eqpt v03

4. Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (vertical), lie-down position (horizontal). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (LTE: vertical, vertical polarization; NR: horizontal, vertical polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in different Bandwidth is set to detailin the following table:

Test modes are chosen to be reported as the worst case configuration below for LTE Band:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM/ 64QAM/ 256QAM	1	50%	100%	L	M	H
Radiated Spurious Emission	LTE 48	-	-	O	-	-	-	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

Test modes are chosen to be reported as the worst case configuration below for NR Band:

Test items	Mode	Bandwidth (MHz)												Modulation			RB			Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM/ 64QAM/ 256QAM	1	50%	100%	L	M
Radiates Spurious Emission	NR n48	-	O	-	-	-	-	-	-	-	-	-	-	-	O	-	O	-	-	-	O	-

Note: 1. The mark "O" means that this configuration is chosen for testing.

2. The mark "-" means that this configuration is not testing.

3. Sub 6GHz operates using 15kHz Subcarrier Spacing with both CP-OFDM and DFT-s OFDM waveforms. The band supports PI/2 BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulation. The test data provided in this report represents the worst case configurations.

5. Test Case

5.1. Maximum Effective Isotropic Radiated Power and Maximum Power Spectral Density

Ambient Condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

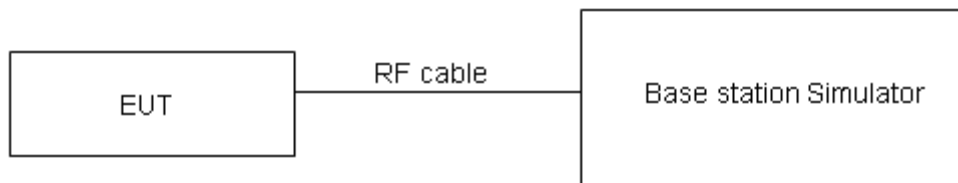
Methods of Measurement

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Section 3.2(b)(2).

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

Test Setup



A transmitter port of EUT is connected to the input of a signal analyzer. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Limits

Rule Part 96.41 (b) *Power limits*. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD ¹	47	37

¹ Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§ 96.15 and 96.67.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 1.19$ dB

Test Results

Refer to the section 6.1 of this report for test data.

5.2. Radiated Spurious Emission

Ambient Condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

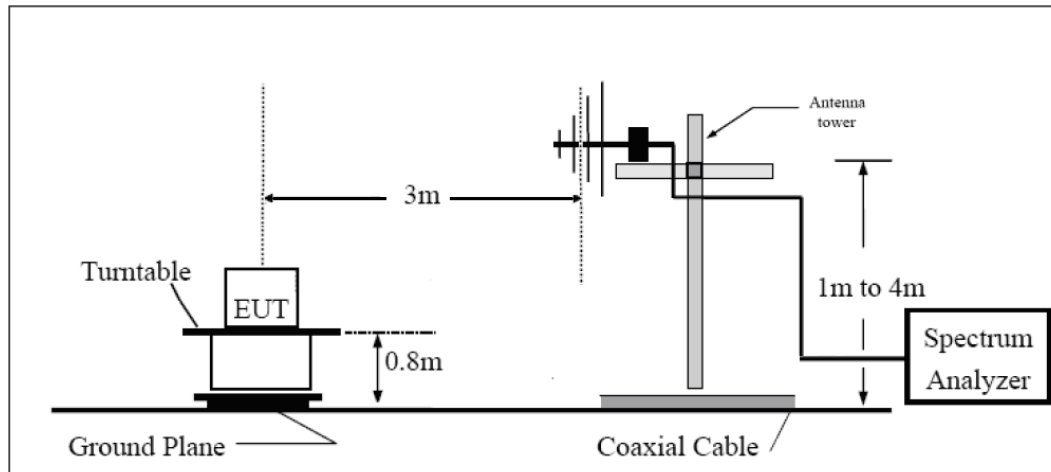
1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$

The measurement results are amend as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.

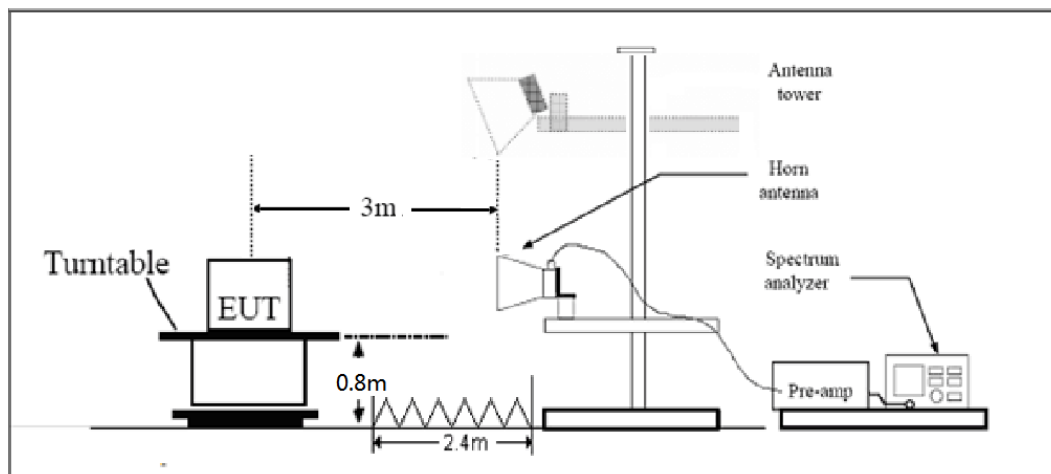
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test Setup

30MHz~~~ 1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m

Limits

Rule Part 96.41(e) (2) specifies that “*Additional protection levels.* Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.”

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 3.55$ dB.

Test Results

Refer to the section 6.2 of this report for test data.

6. Test Result

6.1. Maximum Effective Isotropic Radiated Power and Maximum Power Spectral Density

Band 48						
Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
QPSK						
3552.50	5	25	0	21.53	22.12	<23.00
3625.00				21.16	21.75	<23.00
3697.50				21.14	21.73	<23.00
3555.00	10	50	0	21.52	22.11	<23.00
3625.00				21.11	21.70	<23.00
3695.00				21.06	21.65	<23.00
3557.50	15	75	0	21.70	22.29	<23.00
3625.00				21.30	21.89	<23.00
3692.50				21.36	21.95	<23.00
3560.00	20	100	0	20.31	20.90	<23.00
3625.00				20.29	20.88	<23.00
3690.00				20.13	20.72	<23.00
16QAM						
3552.50	5	25	0	20.55	21.14	<23.00
3625.00				20.00	20.59	<23.00
3697.50				20.14	20.73	<23.00
3555.00	10	50	0	20.67	21.26	<23.00
3625.00				20.13	20.72	<23.00
3695.00				20.13	20.72	<23.00
3557.50	15	75	0	20.71	21.30	<23.00
3625.00				20.39	20.98	<23.00
3692.50				20.34	20.93	<23.00
3560.00	20	100	0	19.24	19.83	<23.00
3625.00				19.27	19.86	<23.00
3690.00				19.15	19.74	<23.00
64QAM						
3552.50	5	25	0	19.57	20.16	<23.00
3625.00				19.06	19.65	<23.00
3697.50				19.10	19.69	<23.00
3555.00	10	50	0	19.67	20.26	<23.00
3625.00				19.15	19.74	<23.00
3695.00				19.19	19.78	<23.00

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3557.50	15	75	0	19.71	20.30	<23.00
3625.00				19.37	19.96	<23.00
3692.50				19.48	20.07	<23.00
3560.00	20	100	0	18.32	18.91	<23.00
3625.00				18.23	18.82	<23.00
3690.00				18.17	18.76	<23.00
256QAM						
3552.50	5	25	0	17.62	18.21	<23.00
3625.00				17.03	17.62	<23.00
3697.50				17.12	17.71	<23.00
3555.00	10	50	0	17.61	18.20	<23.00
3625.00				17.14	17.73	<23.00
3695.00				17.18	17.77	<23.00
3557.50	15	75	0	17.76	18.35	<23.00
3625.00				17.37	17.96	<23.00
3692.50				17.42	18.01	<23.00
3560.00	20	100	0	16.26	16.85	<23.00
3625.00				16.19	16.78	<23.00
3690.00				16.34	16.93	<23.00
QPSK						
3552.50	5	25	0	22.83	23.42	N/A
3625.00				22.79	23.38	N/A
3697.50				22.80	23.39	N/A
3555.00	10	50	0	22.78	23.37	N/A
3625.00				22.81	23.40	N/A
3695.00				22.75	23.34	N/A
3557.50	15	75	0	22.67	23.26	N/A
3625.00				22.66	23.25	N/A
3692.50				22.64	23.23	N/A
3560.00	20	100	0	22.67	23.26	N/A
3625.00				22.68	23.27	N/A
3690.00				22.55	23.14	N/A
16QAM						
3552.50	5	25	0	21.84	22.43	N/A
3625.00				21.76	22.35	N/A
3697.50				21.78	22.37	N/A
3555.00	10	50	0	21.81	22.40	N/A
3625.00				21.83	22.42	N/A
3695.00				21.72	22.31	N/A
3557.50	15	75	0	21.65	22.24	N/A
3625.00				21.68	22.27	N/A
3692.50				21.63	22.22	N/A
3560.00	20	100	0	21.63	22.22	N/A

3625.00				21.68	22.27	N/A
3690.00				21.53	22.12	N/A
64QAM						
3552.50	5	25	0	20.83	21.42	N/A
3625.00				20.76	21.35	N/A
3697.50				20.80	21.39	N/A
3555.00	10	50	0	20.78	21.37	N/A
3625.00				20.82	21.41	N/A
3695.00				20.73	21.32	N/A
3557.50	15	75	0	20.66	21.25	N/A
3625.00				20.64	21.23	N/A
3692.50				20.70	21.29	N/A
3560.00	20	100	0	20.65	21.24	N/A
3625.00				20.67	21.26	N/A
3690.00				20.50	21.09	N/A
256QAM						
3552.50	5	25	0	18.82	19.41	N/A
3625.00				18.74	19.33	N/A
3697.50				18.82	19.41	N/A
3555.00	10	50	0	18.77	19.36	N/A
3625.00				18.81	19.40	N/A
3695.00				18.70	19.29	N/A
3557.50	15	75	0	18.67	19.26	N/A
3625.00				18.69	19.28	N/A
3692.50				18.65	19.24	N/A
3560.00	20	100	0	18.63	19.22	N/A
3625.00				18.66	19.25	N/A
3690.00				18.51	19.10	N/A
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)						

Intra-Band CA_48C							
Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)
PCC	SCC						
QPSK							
3553.3	3565.0	5+20	P_25@0	S_100@0	19.93	20.52	<23.00
3615.8	3627.5				20.13	20.72	<23.00
3678.3	3690.0				20.44	21.03	<23.00
3560.0	3571.7	20+5	P_100@0	S_25@0	17.13	17.72	<23.00
3622.5	3634.2				17.54	18.13	<23.00
3685.0	3696.7				17.73	18.32	<23.00
3555.5	3569.9	10+20	P_50@99	S_100@0	19.78	20.37	<23.00
3615.6	3630.0				20.05	20.64	<23.00

3675.6	3690.0				20.21	20.80	<23.00
3560.0	3574.4	20+10	P_100@0	S_50@0	17.38	17.97	<23.00
3620.1	3634.5				16.88	17.47	<23.00
3680.1	3694.5				17.22	17.81	<23.00
3557.8	3574.9	15+20	P_75@0	S_75@0	18.66	19.25	<23.00
3615.3	3632.4				18.86	19.45	<23.00
3672.9	3690.0				19.20	19.79	<23.00
3560.0	3577.1	20+15	P_100@0	S_100@0	17.39	17.98	<23.00
3617.6	3634.7				17.55	18.14	<23.00
3675.1	3692.2				18.01	18.60	<23.00
3560.0	3579.8	20+20	P_100@0	S_100@0	17.40	17.99	<23.00
3615.1	3634.9				17.56	18.15	<23.00
3670.2	3690.0				17.95	18.54	<23.00
16QAM							
3553.3	3565.0	5+20	P_25@0	S_100@0	20.49	21.08	<23.00
3615.8	3627.5				20.71	21.30	<23.00
3678.3	3690.0				21.01	21.60	<23.00
3560.0	3571.7	20+5	P_100@0	S_25@0	17.56	18.15	<23.00
3622.5	3634.2				18.07	18.66	<23.00
3685.0	3696.7				18.38	18.97	<23.00
3555.5	3569.9	10+20	P_50@99	S_100@0	20.25	20.84	<23.00
3615.6	3630.0				20.45	21.04	<23.00
3675.6	3690.0				20.70	21.29	<23.00
3560.0	3574.4	20+10	P_100@0	S_50@0	17.91	18.50	<23.00
3620.1	3634.5				17.32	17.91	<23.00
3680.1	3694.5				17.79	18.38	<23.00
3557.8	3574.9	15+20	P_75@0	S_75@0	19.04	19.63	<23.00
3615.3	3632.4				19.25	19.84	<23.00
3672.9	3690.0				19.79	20.38	<23.00
3560.0	3577.1	20+15	P_100@0	S_100@0	18.04	18.63	<23.00
3617.6	3634.7				18.07	18.66	<23.00
3675.1	3692.2				18.51	19.10	<23.00
3560.0	3579.8	20+20	P_100@0	S_100@0	17.89	18.48	<23.00
3615.1	3634.9				18.10	18.69	<23.00
3670.2	3690.0				18.58	19.17	<23.00
64QAM							
3553.3	3565.0	5+20	P_25@0	S_100@0	20.48	21.07	<23.00
3615.8	3627.5				20.80	21.39	<23.00
3678.3	3690.0				20.37	20.96	<23.00
3560.0	3571.7	20+5	P_100@0	S_25@0	17.61	18.20	<23.00
3622.5	3634.2				17.82	18.41	<23.00
3685.0	3696.7				17.57	18.16	<23.00
3555.5	3569.9	10+20	P_50@99	S_100@0	20.23	20.82	<23.00

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3615.6	3630.0				20.50	21.09	<23.00
3675.6	3690.0				20.16	20.75	<23.00
3560.0	3574.4	20+10	P_100@0	S_50@0	17.82	18.41	<23.00
3620.1	3634.5				17.23	17.82	<23.00
3680.1	3694.5				17.72	18.31	<23.00
3557.8	3574.9	15+20	P_75@0	S_75@0	19.13	19.72	<23.00
3615.3	3632.4				19.31	19.90	<23.00
3672.9	3690.0				19.22	19.81	<23.00
3560.0	3577.1	20+15	P_100@0	S_100@0	17.83	18.42	<23.00
3617.6	3634.7				18.00	18.59	<23.00
3675.1	3692.2				17.96	18.55	<23.00
3560.0	3579.8	20+20	P_100@0	S_100@0	17.91	18.50	<23.00
3615.1	3634.9				18.01	18.60	<23.00
3670.2	3690.0				17.88	18.47	<23.00
256QAM							
3553.3	3565.0	5+20	P_25@0	S_100@0	18.49	19.08	<23.00
3615.8	3627.5				18.69	19.28	<23.00
3678.3	3690.0				18.85	19.44	<23.00
3560.0	3571.7	20+5	P_100@0	S_25@0	15.66	16.25	<23.00
3622.5	3634.2				16.13	16.72	<23.00
3685.0	3696.7				16.43	17.02	<23.00
3555.5	3569.9	10+20	P_50@99	S_100@0	18.27	18.86	<23.00
3615.6	3630.0				18.50	19.09	<23.00
3675.6	3690.0				18.71	19.30	<23.00
3560.0	3574.4	20+10	P_100@0	S_50@0	15.87	16.46	<23.00
3620.1	3634.5				15.39	15.98	<23.00
3680.1	3694.5				16.23	16.82	<23.00
3557.8	3574.9	15+20	P_75@0	S_75@0	17.13	17.72	<23.00
3615.3	3632.4				17.29	17.88	<23.00
3672.9	3690.0				17.77	18.36	<23.00
3560.0	3577.1	20+15	P_100@0	S_100@0	15.99	16.58	<23.00
3617.6	3634.7				16.10	16.69	<23.00
3675.1	3692.2				16.48	17.07	<23.00
3560.0	3579.8	20+20	P_100@0	S_100@0	15.82	16.41	<23.00
3615.1	3634.9				16.00	16.59	<23.00
3670.2	3690.0				16.45	17.04	<23.00
QPSK							
3553.3	3565.0	5+20	P_25@0	S_100@0	19.89	20.48	N/A
3615.8	3627.5				20.13	20.72	N/A
3678.3	3690.0				20.24	20.83	N/A
3560.0	3571.7	20+5	P_100@0	S_25@0	19.85	20.44	N/A
3622.5	3634.2				20.02	20.61	N/A
3685.0	3696.7				20.41	21.00	N/A

3555.5	3569.9	10+20	P_50@99	S_100@0	19.88	20.47	N/A
3615.6	3630.0				20.08	20.67	N/A
3675.6	3690.0				20.17	20.76	N/A
3560.0	3574.4	20+10	P_100@0	S_50@0	19.99	20.58	N/A
3620.1	3634.5				20.02	20.61	N/A
3680.1	3694.5				20.20	20.79	N/A
3557.8	3574.9	15+20	P_75@0	S_75@0	19.91	20.50	N/A
3615.3	3632.4				20.13	20.72	N/A
3672.9	3690.0				20.46	21.05	N/A
3560.0	3577.1	20+15	P_100@0	S_100@0	19.99	20.58	N/A
3617.6	3634.7				20.11	20.70	N/A
3675.1	3692.2				20.44	21.03	N/A
3560.0	3579.8	20+20	P_100@0	S_100@0	19.96	20.55	N/A
3615.1	3634.9				20.18	20.77	N/A
3670.2	3690.0				20.40	20.99	N/A
16QAM							
3553.3	3565.0	5+20	P_25@0	S_100@0	20.42	21.01	N/A
3615.8	3627.5				20.66	21.25	N/A
3678.3	3690.0				20.77	21.36	N/A
3560.0	3571.7	20+5	P_100@0	S_25@0	20.37	20.96	N/A
3622.5	3634.2				20.65	21.24	N/A
3685.0	3696.7				20.99	21.58	N/A
3555.5	3569.9	10+20	P_50@99	S_100@0	20.39	20.98	N/A
3615.6	3630.0				20.61	21.20	N/A
3675.6	3690.0				20.68	21.27	N/A
3560.0	3574.4	20+10	P_100@0	S_50@0	20.49	21.08	N/A
3620.1	3634.5				20.46	21.05	N/A
3680.1	3694.5				20.62	21.21	N/A
3557.8	3574.9	15+20	P_75@0	S_75@0	20.44	21.03	N/A
3615.3	3632.4				20.64	21.23	N/A
3672.9	3690.0				20.97	21.56	N/A
3560.0	3577.1	20+15	P_100@0	S_100@0	20.45	21.04	N/A
3617.6	3634.7				20.63	21.22	N/A
3675.1	3692.2				20.96	21.55	N/A
3560.0	3579.8	20+20	P_100@0	S_100@0	20.43	21.02	N/A
3615.1	3634.9				20.64	21.23	N/A
3670.2	3690.0				20.93	21.52	N/A
64QAM							
3553.3	3565.0	5+20	P_25@0	S_100@0	20.38	20.97	N/A
3615.8	3627.5				20.60	21.19	N/A
3678.3	3690.0				20.12	20.71	N/A
3560.0	3571.7	20+5	P_100@0	S_25@0	20.38	20.97	N/A
3622.5	3634.2				20.54	21.13	N/A

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3685.0	3696.7				20.12	20.71	N/A
3555.5	3569.9	10+20	P_50@99	S_100@0	20.34	20.93	N/A
3615.6	3630.0				20.59	21.18	N/A
3675.6	3690.0				20.14	20.73	N/A
3560.0	3574.4	20+10	P_100@0	S_50@0	20.50	21.09	N/A
3620.1	3634.5				20.49	21.08	N/A
3680.1	3694.5				20.18	20.77	N/A
3557.8	3574.9	15+20	P_75@0	S_75@0	20.42	21.01	N/A
3615.3	3632.4				20.64	21.23	N/A
3672.9	3690.0				20.43	21.02	N/A
3560.0	3577.1	20+15	P_100@0	S_100@0	20.48	21.07	N/A
3617.6	3634.7				20.64	21.23	N/A
3675.1	3692.2				20.41	21.00	N/A
3560.0	3579.8	20+20	P_100@0	S_100@0	20.42	21.01	N/A
3615.1	3634.9				20.66	21.25	N/A
3670.2	3690.0				20.31	20.90	N/A
256QAM							
3553.3	3565.0	5+20	P_25@0	S_100@0	18.42	19.01	N/A
3615.8	3627.5				18.51	19.10	N/A
3678.3	3690.0				18.75	19.34	N/A
3560.0	3571.7	20+5	P_100@0	S_25@0	18.37	18.96	N/A
3622.5	3634.2				18.69	19.28	N/A
3685.0	3696.7				18.96	19.55	N/A
3555.5	3569.9	10+20	P_50@99	S_100@0	18.35	18.94	N/A
3615.6	3630.0				18.57	19.16	N/A
3675.6	3690.0				18.71	19.30	N/A
3560.0	3574.4	20+10	P_100@0	S_50@0	18.51	19.10	N/A
3620.1	3634.5				18.52	19.11	N/A
3680.1	3694.5				18.71	19.30	N/A
3557.8	3574.9	15+20	P_75@0	S_75@0	18.46	19.05	N/A
3615.3	3632.4				18.67	19.26	N/A
3672.9	3690.0				18.97	19.56	N/A
3560.0	3577.1	20+15	P_100@0	S_100@0	18.43	19.02	N/A
3617.6	3634.7				18.62	19.21	N/A
3675.1	3692.2				18.93	19.52	N/A
3560.0	3579.8	20+20	P_100@0	S_100@0	18.45	19.04	N/A
3615.1	3634.9				18.62	19.21	N/A
3670.2	3690.0				18.94	19.53	N/A

n48_SA						
Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
DFT-s OFDM PI/2 BPSK						
3555	10	12	6	21.13	21.72	<23.00
		1	1	21.56	22.15	<23.00
		1	22	21.63	22.22	<23.00
		24	0	20.73	21.32	<23.00
		1	23	21.09	21.68	<23.00
		1	0	21.13	21.72	<23.00
3624.99	10	12	6	21.14	21.73	<23.00
		1	1	21.59	22.18	<23.00
		1	22	21.55	22.14	<23.00
		24	0	20.74	21.33	<23.00
		1	23	21.01	21.60	<23.00
		1	0	21.05	21.64	<23.00
3694.98	10	12	6	21.18	21.77	<23.00
		1	1	21.55	22.14	<23.00
		1	22	21.57	22.16	<23.00
		24	0	20.76	21.35	<23.00
		1	23	21.02	21.61	<23.00
		1	0	21.09	21.68	<23.00
3560.01	20	25	12	21.45	22.04	<23.00
		1	1	20.95	21.54	<23.00
		1	49	21.00	21.59	<23.00
		50	0	18.20	18.79	<23.00
		1	50	20.50	21.09	<23.00
		1	0	20.41	21.00	<23.00
3624.99	20	25	12	21.39	21.98	<23.00
		1	1	20.94	21.53	<23.00
		1	49	20.86	21.45	<23.00
		50	0	18.17	18.76	<23.00
		1	50	20.37	20.96	<23.00
		1	0	20.44	21.03	<23.00
3690	20	25	12	21.38	21.97	<23.00
		1	1	20.85	21.44	<23.00
		1	49	20.90	21.49	<23.00
		50	0	18.15	18.74	<23.00
		1	50	20.43	21.02	<23.00
		1	0	19.65	20.24	<23.00
3565.02	30	36	18	20.52	21.11	<23.00

		1	1	21.75	22.34	<23.00
		1	76	21.75	22.34	<23.00
		75	0	16.59	17.18	<23.00
		1	77	21.24	21.83	<23.00
		1	0	21.25	21.84	<23.00
3624.99	30	36	18	20.49	21.08	<23.00
		1	1	22.28	22.87	<23.00
		1	76	21.65	22.24	<23.00
		75	0	16.55	17.14	<23.00
		1	77	21.14	21.73	<23.00
		1	0	21.29	21.88	<23.00
3684.99	30	36	18	20.46	21.05	<23.00
		1	1	22.14	22.73	<23.00
		1	76	22.12	22.71	<23.00
		75	0	16.50	17.09	<23.00
		1	77	21.11	21.70	<23.00
		1	0	21.65	22.24	<23.00
3570	40	50	25	19.05	19.64	<23.00
		1	1	22.14	22.73	<23.00
		1	104	21.83	22.42	<23.00
		100	0	15.96	16.55	<23.00
		1	105	21.84	22.43	<23.00
		1	0	21.23	21.82	<23.00
3624.99	40	50	25	18.92	19.51	<23.00
		1	1	22.30	22.89	<23.00
		1	104	21.73	22.32	<23.00
		100	0	15.97	16.56	<23.00
		1	105	21.23	21.82	<23.00
		1	0	21.78	22.37	<23.00
3679.98	40	50	25	18.96	19.55	<23.00
		1	1	22.14	22.73	<23.00
		1	104	21.66	22.25	<23.00
		100	0	16.04	16.63	<23.00
		1	105	21.19	21.78	<23.00
		1	0	21.68	22.27	<23.00
DFT-s OFDM QPSK						
3555	10	12	6	21.22	21.81	<23.00
		1	1	21.45	22.04	<23.00
		1	22	21.48	22.07	<23.00
		24	0	20.31	20.90	<23.00
		1	23	20.41	21.00	<23.00
		1	0	20.60	21.19	<23.00
3624.99	10	12	6	21.07	21.66	<23.00

		1	1	21.47	22.06	<23.00
		1	22	21.65	22.24	<23.00
		24	0	20.24	20.83	<23.00
		1	23	19.76	20.35	<23.00
		1	0	19.80	20.39	<23.00
3694.98	10	12	6	21.17	21.76	<23.00
		1	1	21.47	22.06	<23.00
		1	22	21.52	22.11	<23.00
		24	0	20.27	20.86	<23.00
		1	23	20.41	21.00	<23.00
		1	0	20.64	21.23	<23.00
3560.01	20	25	12	21.40	21.99	<23.00
		1	1	19.43	20.02	<23.00
		1	49	19.47	20.06	<23.00
		50	0	17.53	18.12	<23.00
		1	50	21.80	22.39	<23.00
		1	0	21.73	22.32	<23.00
3624.99	20	25	12	21.38	21.97	<23.00
		1	1	19.43	20.02	<23.00
		1	49	19.49	20.08	<23.00
		50	0	17.79	18.38	<23.00
		1	50	21.61	22.20	<23.00
		1	0	21.71	22.30	<23.00
3690	20	25	12	21.35	21.94	<23.00
		1	1	18.91	19.50	<23.00
		1	49	18.98	19.57	<23.00
		50	0	17.67	18.26	<23.00
		1	50	17.31	17.90	<23.00
		1	0	18.83	19.42	<23.00
3565.02	30	36	18	20.54	21.13	<23.00
		1	1	22.36	22.95	<23.00
		1	76	22.38	22.97	<23.00
		75	0	16.08	16.67	<23.00
		1	77	20.57	21.16	<23.00
		1	0	20.39	20.98	<23.00
3624.99	30	36	18	20.35	20.94	<23.00
		1	1	21.52	22.11	<23.00
		1	76	22.25	22.84	<23.00
		75	0	16.05	16.64	<23.00
		1	77	20.50	21.09	<23.00
		1	0	20.63	21.22	<23.00
3684.99	30	36	18	20.21	20.80	<23.00
		1	1	21.14	21.73	<23.00

		1	76	21.26	21.85	<23.00
		75	0	16.02	16.61	<23.00
		1	77	20.35	20.94	<23.00
		1	0	19.88	20.47	<23.00
3570	40	50	25	18.80	19.39	<23.00
		1	1	20.40	20.99	<23.00
		1	104	21.55	22.14	<23.00
		100	0	14.60	15.19	<23.00
		1	105	18.50	19.09	<23.00
		1	0	19.94	20.53	<23.00
3624.99	40	50	25	18.76	19.35	<23.00
		1	1	20.41	21.00	<23.00
		1	104	21.50	22.09	<23.00
		100	0	14.54	15.13	<23.00
		1	105	19.88	20.47	<23.00
		1	0	18.53	19.12	<23.00
3679.98	40	50	25	18.71	19.30	<23.00
		1	1	20.35	20.94	<23.00
		1	104	21.33	21.92	<23.00
		100	0	14.63	15.22	<23.00
		1	105	19.77	20.36	<23.00
		1	0	18.40	18.99	<23.00
DFT-s OFDM 16QAM						
3555	10	12	6	19.89	20.48	<23.00
		1	1	21.81	22.40	<23.00
		1	22	20.39	20.98	<23.00
		24	0	18.98	19.57	<23.00
		1	23	19.02	19.61	<23.00
		1	0	21.05	21.64	<23.00
3624.99	10	12	6	20.46	21.05	<23.00
		1	1	21.85	22.44	<23.00
		1	22	21.80	22.39	<23.00
		24	0	18.95	19.54	<23.00
		1	23	20.45	21.04	<23.00
		1	0	20.50	21.09	<23.00
3694.98	10	12	6	19.93	20.52	<23.00
		1	1	20.30	20.89	<23.00
		1	22	21.71	22.30	<23.00
		24	0	18.97	19.56	<23.00
		1	23	21.31	21.90	<23.00
		1	0	21.01	21.60	<23.00
3560.01	20	25	12	21.00	21.59	<23.00
		1	1	18.41	19.00	<23.00

		1	49	18.43	19.02	<23.00
		50	0	17.01	17.60	<23.00
		1	50	18.54	19.13	<23.00
		1	0	18.46	19.05	<23.00
3624.99	20	25	12	20.90	21.49	<23.00
		1	1	18.50	19.09	<23.00
		1	49	18.30	18.89	<23.00
		50	0	16.71	17.30	<23.00
		1	50	18.60	19.19	<23.00
		1	0	18.53	19.12	<23.00
3690	20	25	12	20.93	21.52	<23.00
		1	1	18.85	19.44	<23.00
		1	49	20.58	21.17	<23.00
		50	0	16.84	17.43	<23.00
		1	50	18.48	19.07	<23.00
		1	0	19.40	19.99	<23.00
3565.02	30	36	18	19.72	20.31	<23.00
		1	1	21.92	22.51	<23.00
		1	76	20.83	21.42	<23.00
		75	0	15.68	16.27	<23.00
		1	77	21.93	22.52	<23.00
		1	0	22.15	22.74	<23.00
3624.99	30	36	18	19.58	20.17	<23.00
		1	1	21.93	22.52	<23.00
		1	76	20.82	21.41	<23.00
		75	0	15.54	16.13	<23.00
		1	77	21.69	22.28	<23.00
		1	0	21.85	22.44	<23.00
3684.99	30	36	18	19.37	19.96	<23.00
		1	1	21.64	22.23	<23.00
		1	76	21.59	22.18	<23.00
		75	0	15.50	16.09	<23.00
		1	77	21.61	22.20	<23.00
		1	0	22.04	22.63	<23.00
3570	40	50	25	17.65	18.24	<23.00
		1	1	21.15	21.74	<23.00
		1	104	20.76	21.35	<23.00
		100	0	14.27	14.86	<23.00
		1	105	19.84	20.43	<23.00
		1	0	19.80	20.39	<23.00
3624.99	40	50	25	17.56	18.15	<23.00
		1	1	21.21	21.80	<23.00
		1	104	20.63	21.22	<23.00

		100	0	14.17	14.76	<23.00
		1	105	19.90	20.49	<23.00
		1	0	20.06	20.65	<23.00
3679.98	40	50	25	18.18	18.77	<23.00
		1	1	21.09	21.68	<23.00
		1	104	20.67	21.26	<23.00
		100	0	14.23	14.82	<23.00
		1	105	19.96	20.55	<23.00
		1	0	19.63	20.22	<23.00
DFT-s OFDM 64QAM						
3555	10	12	6	18.75	19.34	<23.00
		1	1	18.61	19.20	<23.00
		1	22	17.60	18.19	<23.00
		24	0	18.95	19.54	<23.00
		1	23	18.59	19.18	<23.00
		1	0	18.60	19.19	<23.00
3624.99	10	12	6	18.70	19.29	<23.00
		1	1	18.62	19.21	<23.00
		1	22	18.61	19.20	<23.00
		24	0	19.03	19.62	<23.00
		1	23	18.58	19.17	<23.00
		1	0	18.66	19.25	<23.00
3694.98	10	12	6	18.80	19.39	<23.00
		1	1	17.61	18.20	<23.00
		1	22	18.62	19.21	<23.00
		24	0	18.89	19.48	<23.00
		1	23	17.61	18.20	<23.00
		1	0	18.61	19.20	<23.00
3560.01	20	25	12	18.73	19.32	<23.00
		1	1	14.32	14.91	<23.00
		1	49	14.47	15.06	<23.00
		50	0	16.43	17.02	<23.00
		1	50	14.50	15.09	<23.00
		1	0	14.34	14.93	<23.00
3624.99	20	25	12	18.67	19.26	<23.00
		1	1	14.38	14.97	<23.00
		1	49	14.47	15.06	<23.00
		50	0	16.62	17.21	<23.00
		1	50	14.34	14.93	<23.00
		1	0	14.35	14.94	<23.00
3690	20	25	12	19.06	19.65	<23.00
		1	1	15.71	16.30	<23.00
		1	49	16.26	16.85	<23.00

		50	0	16.53	17.12	<23.00
		1	50	16.29	16.88	<23.00
		1	0	15.73	16.32	<23.00
3565.02	30	36	18	18.23	18.82	<23.00
		1	1	19.58	20.17	<23.00
		1	76	19.90	20.49	<23.00
		75	0	13.79	14.38	<23.00
		1	77	19.84	20.43	<23.00
		1	0	19.55	20.14	<23.00
3624.99	30	36	18	18.14	18.73	<23.00
		1	1	19.48	20.07	<23.00
		1	76	19.70	20.29	<23.00
		75	0	13.75	14.34	<23.00
		1	77	19.74	20.33	<23.00
		1	0	20.59	21.18	<23.00
3684.99	30	36	18	17.98	18.57	<23.00
		1	1	19.70	20.29	<23.00
		1	76	19.36	19.95	<23.00
		75	0	13.71	14.30	<23.00
		1	77	19.82	20.41	<23.00
		1	0	19.50	20.09	<23.00
3570	40	50	25	16.81	17.40	<23.00
		1	1	19.86	20.45	<23.00
		1	104	20.36	20.95	<23.00
		100	0	13.72	14.31	<23.00
		1	105	20.04	20.63	<23.00
		1	0	20.28	20.87	<23.00
3624.99	40	50	25	16.75	17.34	<23.00
		1	1	19.96	20.55	<23.00
		1	104	20.30	20.89	<23.00
		100	0	13.64	14.23	<23.00
		1	105	20.34	20.93	<23.00
		1	0	19.95	20.54	<23.00
3679.98	40	50	25	16.74	17.33	<23.00
		1	1	19.88	20.47	<23.00
		1	104	20.25	20.84	<23.00
		100	0	13.66	14.25	<23.00
		1	105	20.28	20.87	<23.00
		1	0	19.86	20.45	<23.00
DFT-s OFDM 256QAM						
3555	10	12	6	16.35	16.94	<23.00
		1	1	16.40	16.99	<23.00
		1	22	16.47	17.06	<23.00

		24	0	17.11	17.70	<23.00
		1	23	17.76	18.35	<23.00
		1	0	16.43	17.02	<23.00
3624.99	10	12	6	16.58	17.17	<23.00
		1	1	17.21	17.80	<23.00
		1	22	17.05	17.64	<23.00
		24	0	16.97	17.56	<23.00
		1	23	17.15	17.74	<23.00
		1	0	17.21	17.80	<23.00
3694.98	10	12	6	16.35	16.94	<23.00
		1	1	17.73	18.32	<23.00
		1	22	17.77	18.36	<23.00
		24	0	17.08	17.67	<23.00
		1	23	16.42	17.01	<23.00
		1	0	16.44	17.03	<23.00
3560.01	20	25	12	17.01	17.60	<23.00
		1	1	19.56	20.15	<23.00
		1	49	19.70	20.29	<23.00
		50	0	14.10	14.69	<23.00
		1	50	19.60	20.19	<23.00
		1	0	19.53	20.12	<23.00
3624.99	20	25	12	16.79	17.38	<23.00
		1	1	19.56	20.15	<23.00
		1	49	19.43	20.02	<23.00
		50	0	14.36	14.95	<23.00
		1	50	19.46	20.05	<23.00
		1	0	19.52	20.11	<23.00
3690	20	25	12	16.92	17.51	<23.00
		1	1	19.12	19.71	<23.00
		1	49	18.56	19.15	<23.00
		50	0	14.27	14.86	<23.00
		1	50	18.51	19.10	<23.00
		1	0	18.47	19.06	<23.00
3565.02	30	36	18	16.48	17.07	<23.00
		1	1	17.74	18.33	<23.00
		1	76	17.05	17.64	<23.00
		75	0	13.06	13.65	<23.00
		1	77	16.89	17.48	<23.00
		1	0	16.92	17.51	<23.00
3624.99	30	36	18	16.25	16.84	<23.00
		1	1	17.80	18.39	<23.00
		1	76	16.90	17.49	<23.00
		75	0	13.01	13.60	<23.00

		1	77	16.87	17.46	<23.00
		1	0	17.02	17.61	<23.00
3684.99	30	36	18	16.43	17.02	<23.00
		1	1	18.21	18.80	<23.00
		1	76	18.20	18.79	<23.00
		75	0	12.95	13.54	<23.00
		1	77	18.46	19.05	<23.00
		1	0	18.27	18.86	<23.00
3570	40	50	25	14.15	14.74	<23.00
		1	1	19.69	20.28	<23.00
		1	104	19.67	20.26	<23.00
		100	0	11.15	11.74	<23.00
		1	105	19.83	20.42	<23.00
		1	0	19.57	20.16	<23.00
3624.99	40	50	25	14.06	14.65	<23.00
		1	1	19.79	20.38	<23.00
		1	104	19.70	20.29	<23.00
		100	0	11.06	11.65	<23.00
		1	105	19.67	20.26	<23.00
		1	0	19.87	20.46	<23.00
3679.98	40	50	25	14.05	14.64	<23.00
		1	1	19.67	20.26	<23.00
		1	104	19.48	20.07	<23.00
		100	0	11.21	11.80	<23.00
		1	105	19.51	20.10	<23.00
		1	0	19.53	20.12	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)						

n48_UL MIMO								
Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)		Total Power (dBm)	EIRP (dBm)	Limit (dBm)
				Port 0	Port 3			
CP OFDM QPSK								
3555	10	12	6	16.85	16.23	19.56	20.15	<23.00
		1	1	16.96	17.79	20.41	21.00	<23.00
		1	22	17.12	17.45	20.30	20.89	<23.00
		24	0	15.36	14.87	18.13	18.72	<23.00
		1	23	14.57	16.09	18.41	19.00	<23.00
		1	0	15.00	15.88	18.47	19.06	<23.00
3624.99	10	12	6	17.07	16.59	19.85	20.44	<23.00
		1	1	16.57	17.56	20.10	20.69	<23.00
		1	22	17.76	17.23	20.51	21.10	<23.00
		24	0	15.75	15.40	18.59	19.18	<23.00

		1	23	16.15	16.21	19.19	19.78	<23.00
		1	0	14.85	16.14	18.55	19.14	<23.00
3694.98	10	12	6	16.53	16.78	19.67	20.26	<23.00
		1	1	16.76	17.06	19.92	20.51	<23.00
		1	22	18.80	18.33	21.58	22.17	<23.00
		24	0	15.23	15.57	18.41	19.00	<23.00
		1	23	13.83	15.65	17.84	18.43	<23.00
		1	0	14.02	15.28	17.71	18.30	<23.00
3560.01	20	25	12	16.81	16.63	19.73	20.32	<23.00
		1	1	15.75	16.67	19.24	19.83	<23.00
		1	49	16.71	16.61	19.67	20.26	<23.00
		51	0	13.06	12.67	15.88	16.47	<23.00
		1	50	15.69	16.25	18.99	19.58	<23.00
		1	0	15.54	16.59	19.11	19.70	<23.00
3624.99	20	25	12	16.78	15.95	19.40	19.99	<23.00
		1	1	15.18	17.40	19.44	20.03	<23.00
		1	49	17.28	16.95	20.13	20.72	<23.00
		51	0	12.58	12.56	15.58	16.17	<23.00
		1	50	15.36	16.41	18.93	19.52	<23.00
		1	0	15.34	16.12	18.76	19.35	<23.00
3690	20	25	12	16.61	16.32	19.48	20.07	<23.00
		1	1	15.71	17.18	19.52	20.11	<23.00
		1	49	15.92	17.02	19.52	20.11	<23.00
		51	0	12.70	12.84	15.78	16.37	<23.00
		1	50	15.20	16.39	18.85	19.44	<23.00
		1	0	15.68	16.76	19.26	19.85	<23.00
3565.02	30	36	18	15.49	15.51	18.51	19.10	<23.00
		1	1	17.53	17.55	20.55	21.14	<23.00
		1	76	17.51	17.58	20.56	21.15	<23.00
		78	0	11.03	11.41	14.23	14.82	<23.00
		1	77	15.51	16.69	19.15	19.74	<23.00
		1	0	15.57	16.60	19.13	19.72	<23.00
3624.99	30	39	19	15.68	15.77	18.74	19.33	<23.00
		1	1	17.41	17.19	20.31	20.90	<23.00
		1	76	17.34	17.43	20.40	20.99	<23.00
		78	0	10.82	11.48	14.17	14.76	<23.00
		1	77	15.64	16.73	19.23	19.82	<23.00
		1	0	15.72	16.59	19.19	19.78	<23.00
3684.99	30	39	19	15.79	16.07	18.94	19.53	<23.00
		1	1	17.58	17.74	20.67	21.26	<23.00
		1	76	16.65	16.49	19.58	20.17	<23.00
		78	0	10.65	11.61	14.17	14.76	<23.00
		1	77	14.81	17.53	19.39	19.98	<23.00

		1	0	14.95	17.65	19.52	20.11	<23.00
3570	40	53	26	14.74	14.42	17.59	18.18	<23.00
		1	1	15.36	18.94	20.52	21.11	<23.00
		1	104	15.78	19.07	20.74	21.33	<23.00
		106	0	9.57	10.82	13.25	13.84	<23.00
		1	105	15.28	19.09	20.60	21.19	<23.00
		1	0	15.00	18.92	20.40	20.99	<23.00
3624.99	40	53	26	14.59	14.56	17.59	18.18	<23.00
		1	1	11.36	20.15	20.69	21.28	<23.00
		1	104	11.07	20.06	20.58	21.17	<23.00
		106	0	9.51	11.12	13.40	13.99	<23.00
		1	105	12.67	18.35	19.39	19.98	<23.00
		1	0	16.44	18.95	20.88	21.47	<23.00
3679.98	40	53	26	14.56	14.86	17.72	18.31	<23.00
		1	1	14.87	19.57	20.84	21.43	<23.00
		1	104	14.04	19.52	20.60	21.19	<23.00
		106	0	9.07	11.30	13.34	13.93	<23.00
		1	105	14.65	19.18	20.49	21.08	<23.00
		1	0	14.72	19.11	20.46	21.05	<23.00
CP OFDM 16QAM								
3555	10	12	6	16.50	16.36	19.44	20.03	<23.00
		1	1	15.71	17.77	19.87	20.46	<23.00
		1	22	15.36	17.51	19.58	20.17	<23.00
		24	0	15.35	14.80	18.09	18.68	<23.00
		1	23	13.52	17.90	19.25	19.84	<23.00
		1	0	12.80	17.96	19.12	19.71	<23.00
3624.99	10	12	6	16.40	16.32	19.37	19.96	<23.00
		1	1	15.57	17.70	19.77	20.36	<23.00
		1	22	15.86	17.04	19.50	20.09	<23.00
		24	0	15.30	15.01	18.17	18.76	<23.00
		1	23	12.54	17.83	18.96	19.55	<23.00
		1	0	12.65	17.65	18.84	19.43	<23.00
3694.98	10	12	6	16.41	16.85	19.65	20.24	<23.00
		1	1	13.17	16.82	18.38	18.97	<23.00
		1	22	15.11	18.06	19.84	20.43	<23.00
		24	0	15.19	15.26	18.24	18.83	<23.00
		1	23	13.21	17.00	18.52	19.11	<23.00
		1	0	13.24	16.77	18.36	18.95	<23.00
3560.01	20	25	12	16.91	16.77	19.85	20.44	<23.00
		1	1	17.65	16.02	19.92	20.51	<23.00
		1	49	17.46	15.21	19.49	20.08	<23.00
		51	0	12.78	12.94	15.87	16.46	<23.00
		1	50	16.24	14.99	18.67	19.26	<23.00

		1	0	16.16	14.60	18.46	19.05	<23.00
3624.99	20	25	12	15.98	16.12	19.06	19.65	<23.00
		1	1	17.59	15.78	19.79	20.38	<23.00
		1	49	17.69	16.13	19.99	20.58	<23.00
		51	0	12.75	12.51	15.64	16.23	<23.00
		1	50	16.40	15.03	18.78	19.37	<23.00
		1	0	16.10	14.96	18.58	19.17	<23.00
3690	20	25	12	16.08	16.62	19.37	19.96	<23.00
		1	1	17.54	16.39	20.01	20.60	<23.00
		1	49	17.45	15.54	19.61	20.20	<23.00
		51	0	12.67	13.01	15.85	16.44	<23.00
		1	50	16.23	14.36	18.41	19.00	<23.00
		1	0	16.37	14.90	18.71	19.30	<23.00
3565.02	30	36	18	15.34	15.11	18.24	18.83	<23.00
		1	1	16.87	16.32	19.61	20.20	<23.00
		1	76	16.94	16.43	19.70	20.29	<23.00
		78	0	11.76	10.52	14.19	14.78	<23.00
		1	77	15.94	15.74	18.85	19.44	<23.00
		1	0	15.73	15.83	18.79	19.38	<23.00
3624.99	30	39	19	15.24	15.07	18.17	18.76	<23.00
		1	1	16.86	16.12	19.52	20.11	<23.00
		1	76	16.62	15.62	19.16	19.75	<23.00
		78	0	11.64	10.55	14.14	14.73	<23.00
		1	77	15.80	15.97	18.90	19.49	<23.00
		1	0	16.05	15.79	18.93	19.52	<23.00
3684.99	30	39	19	15.16	15.23	18.21	18.80	<23.00
		1	1	16.73	16.70	19.73	20.32	<23.00
		1	76	16.63	16.53	19.59	20.18	<23.00
		78	0	10.90	10.63	13.78	14.37	<23.00
		1	77	15.94	16.42	19.20	19.79	<23.00
		1	0	16.07	16.09	19.09	19.68	<23.00
3570	40	53	26	13.62	13.77	16.71	17.30	<23.00
		1	1	16.57	17.48	20.06	20.65	<23.00
		1	104	16.47	17.97	20.29	20.88	<23.00
		106	0	9.85	10.02	12.95	13.54	<23.00
		1	105	15.43	16.56	19.04	19.63	<23.00
		1	0	15.15	16.51	18.89	19.48	<23.00
3624.99	40	53	26	13.39	13.64	16.53	17.12	<23.00
		1	1	16.34	17.50	19.97	20.56	<23.00
		1	104	16.38	17.91	20.22	20.81	<23.00
		106	0	9.65	10.04	12.86	13.45	<23.00
		1	105	14.76	19.05	20.42	21.01	<23.00
		1	0	14.79	18.61	20.12	20.71	<23.00

3679.98	40	53	26	13.18	14.40	16.84	17.43	<23.00
		1	1	17.39	18.40	20.93	21.52	<23.00
		1	104	17.34	18.45	20.94	21.53	<23.00
		106	0	9.75	10.54	13.17	13.76	<23.00
		1	105	16.15	17.42	19.84	20.43	<23.00
		1	0	15.99	17.52	19.83	20.42	<23.00
CP OFDM 64QAM								
3555	10	12	6	14.90	14.98	17.95	18.54	<23.00
		1	1	14.98	13.53	17.33	17.92	<23.00
		1	22	13.55	14.04	16.81	17.40	<23.00
		24	0	15.15	14.79	17.98	18.57	<23.00
		1	23	14.43	14.63	17.54	18.13	<23.00
		1	0	13.49	14.90	17.26	17.85	<23.00
3624.99	10	12	6	14.88	14.65	17.78	18.37	<23.00
		1	1	14.60	13.51	17.10	17.69	<23.00
		1	22	14.29	13.53	16.94	17.53	<23.00
		24	0	15.17	15.03	18.11	18.70	<23.00
		1	23	13.84	13.63	16.75	17.34	<23.00
		1	0	14.01	13.73	16.88	17.47	<23.00
3694.98	10	12	6	14.48	15.27	17.90	18.49	<23.00
		1	1	14.17	15.16	17.70	18.29	<23.00
		1	22	14.04	13.99	17.03	17.62	<23.00
		24	0	15.15	15.27	18.22	18.81	<23.00
		1	23	13.98	15.56	17.85	18.44	<23.00
		1	0	14.19	14.93	17.59	18.18	<23.00
3560.01	20	25	12	14.66	14.60	17.64	18.23	<23.00
		1	1	16.11	14.37	18.34	18.93	<23.00
		1	49	15.38	14.44	17.95	18.54	<23.00
		51	0	12.90	12.67	15.80	16.39	<23.00
		1	50	16.04	14.32	18.27	18.86	<23.00
		1	0	15.07	14.60	17.85	18.44	<23.00
3624.99	20	25	12	14.55	14.21	17.39	17.98	<23.00
		1	1	14.42	14.46	17.45	18.04	<23.00
		1	49	16.37	14.58	18.58	19.17	<23.00
		51	0	12.30	12.41	15.37	15.96	<23.00
		1	50	15.62	14.36	18.05	18.64	<23.00
		1	0	16.62	14.50	18.70	19.29	<23.00
3690	20	25	12	14.62	14.85	17.75	18.34	<23.00
		1	1	16.21	14.84	18.59	19.18	<23.00
		1	49	15.14	14.47	17.83	18.42	<23.00
		51	0	12.18	12.97	15.60	16.19	<23.00
		1	50	15.00	14.04	17.56	18.15	<23.00
		1	0	14.67	14.66	17.68	18.27	<23.00

3565.02	30	36	18	14.00	13.48	16.76	17.35	<23.00
		1	1	15.24	15.03	18.15	18.74	<23.00
		1	76	14.98	15.18	18.09	18.68	<23.00
		78	0	10.41	10.75	13.59	14.18	<23.00
		1	77	14.93	15.31	18.13	18.72	<23.00
		1	0	14.87	15.12	18.01	18.60	<23.00
3624.99	30	39	19	13.92	13.47	16.71	17.30	<23.00
		1	1	15.26	15.03	18.16	18.75	<23.00
		1	76	14.78	15.24	18.03	18.62	<23.00
		78	0	10.38	10.89	13.65	14.24	<23.00
		1	77	14.90	15.23	18.08	18.67	<23.00
		1	0	14.96	15.04	18.01	18.60	<23.00
3684.99	30	39	19	14.01	13.72	16.88	17.47	<23.00
		1	1	14.76	15.60	18.21	18.80	<23.00
		1	76	14.90	15.44	18.19	18.78	<23.00
		78	0	10.75	11.08	13.93	14.52	<23.00
		1	77	14.83	15.89	18.40	18.99	<23.00
		1	0	14.89	15.42	18.17	18.76	<23.00
3570	40	53	26	12.53	13.14	15.86	16.45	<23.00
		1	1	14.63	13.81	17.25	17.84	<23.00
		1	104	13.87	14.33	17.12	17.71	<23.00
		106	0	8.84	9.35	12.11	12.70	<23.00
		1	105	14.49	14.81	17.66	18.25	<23.00
		1	0	13.63	14.60	17.15	17.74	<23.00
3624.99	40	53	26	12.40	13.00	15.72	16.31	<23.00
		1	1	14.35	13.93	17.16	17.75	<23.00
		1	104	14.06	14.44	17.26	17.85	<23.00
		106	0	8.92	9.32	12.13	12.72	<23.00
		1	105	14.11	12.12	16.24	16.83	<23.00
		1	0	12.18	13.39	15.84	16.43	<23.00
3679.98	40	53	26	12.09	13.30	15.75	16.34	<23.00
		1	1	13.96	15.02	17.53	18.12	<23.00
		1	104	13.92	13.96	16.95	17.54	<23.00
		106	0	8.59	9.64	12.16	12.75	<23.00
		1	105	14.01	15.01	17.55	18.14	<23.00
		1	0	13.90	15.12	17.56	18.15	<23.00
CP OFDM 256QAM								
3555	10	12	6	11.59	12.29	14.96	15.55	<23.00
		1	1	11.48	11.01	14.26	14.85	<23.00
		1	22	11.53	11.02	14.29	14.88	<23.00
		24	0	11.98	12.03	15.02	15.61	<23.00
		1	23	11.02	10.12	13.60	14.19	<23.00
		1	0	10.94	11.16	14.06	14.65	<23.00

3624.99	10	12	6	11.75	12.57	15.19	15.78	<23.00
		1	1	11.41	11.56	14.50	15.09	<23.00
		1	22	12.12	11.48	14.82	15.41	<23.00
		24	0	12.10	11.85	14.99	15.58	<23.00
		1	23	12.22	12.19	15.22	15.81	<23.00
		1	0	11.44	12.05	14.77	15.36	<23.00
3694.98	10	12	6	11.38	12.78	15.15	15.74	<23.00
		1	1	11.39	12.53	15.01	15.60	<23.00
		1	22	11.76	11.10	14.45	15.04	<23.00
		24	0	11.90	12.53	15.24	15.83	<23.00
		1	23	11.40	12.12	14.79	15.38	<23.00
		1	0	11.38	12.49	14.98	15.57	<23.00
3560.01	20	25	12	11.99	11.81	14.91	15.50	<23.00
		1	1	11.41	10.50	13.99	14.58	<23.00
		1	49	11.00	11.29	14.16	14.75	<23.00
		51	0	9.66	9.34	12.51	13.10	<23.00
		1	50	11.62	9.53	13.71	14.30	<23.00
		1	0	11.38	10.77	14.10	14.69	<23.00
3624.99	20	25	12	11.63	11.38	14.52	15.11	<23.00
		1	1	12.22	10.26	14.36	14.95	<23.00
		1	49	11.08	11.02	14.06	14.65	<23.00
		51	0	9.36	9.17	12.28	12.87	<23.00
		1	50	12.01	10.26	14.23	14.82	<23.00
		1	0	12.00	9.91	14.09	14.68	<23.00
3690	20	25	12	11.74	11.84	14.80	15.39	<23.00
		1	1	11.48	10.04	13.83	14.42	<23.00
		1	49	11.37	10.08	13.78	14.37	<23.00
		51	0	9.43	9.59	12.52	13.11	<23.00
		1	50	10.78	10.67	13.74	14.33	<23.00
		1	0	11.37	11.21	14.30	14.89	<23.00
3565.02	30	36	18	10.89	10.88	13.90	14.49	<23.00
		1	1	11.10	12.12	14.65	15.24	<23.00
		1	76	11.08	11.98	14.56	15.15	<23.00
		78	0	7.76	8.01	10.90	11.49	<23.00
		1	77	11.05	11.93	14.52	15.11	<23.00
		1	0	10.80	12.07	14.49	15.08	<23.00
3624.99	30	39	19	10.82	10.95	13.90	14.49	<23.00
		1	1	10.82	12.00	14.46	15.05	<23.00
		1	76	10.71	12.34	14.61	15.20	<23.00
		78	0	7.74	7.91	10.84	11.43	<23.00
		1	77	10.89	11.90	14.43	15.02	<23.00
		1	0	11.03	12.25	14.69	15.28	<23.00
3684.99	30	39	19	10.80	11.19	14.01	14.60	<23.00

		1	1	10.84	12.18	14.57	15.16	<23.00
		1	76	10.55	12.20	14.46	15.05	<23.00
		78	0	7.27	7.50	10.40	10.99	<23.00
		1	77	10.55	12.95	14.92	15.51	<23.00
		1	0	10.94	12.32	14.69	15.28	<23.00
3570	40	53	26	9.56	9.60	12.59	13.18	<23.00
		1	1	10.75	10.70	13.74	14.33	<23.00
		1	104	11.15	10.01	13.63	14.22	<23.00
		106	0	6.09	6.62	9.37	9.96	<23.00
		1	105	10.98	11.66	14.34	14.93	<23.00
		1	0	10.60	10.63	13.63	14.22	<23.00
3624.99	40	53	26	9.29	9.51	12.41	13.00	<23.00
		1	1	10.83	11.39	14.13	14.72	<23.00
		1	104	11.07	11.21	14.15	14.74	<23.00
		106	0	6.07	6.37	9.23	9.82	<23.00
		1	105	10.66	11.25	13.98	14.57	<23.00
		1	0	8.57	8.16	11.38	11.97	<23.00
3679.98	40	53	26	9.58	9.75	12.68	13.27	<23.00
		1	1	10.42	11.28	13.88	14.47	<23.00
		1	104	10.34	11.49	13.96	14.55	<23.00
		106	0	5.75	6.51	9.16	9.75	<23.00
		1	105	10.37	11.38	13.91	14.50	<23.00
		1	0	10.46	11.24	13.88	14.47	<23.00
Note 1: Total Power (dBm) = 10*log{10^(Port 0 Output Power / 10) + 10^(Port 1 Output Power / 10)} Note 2: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)								

6.2. Radiated Spurious Emission

Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

LTE Band 48 5MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7250.00	-59.56	2.50	11.35	Horizontal	-47.29	-13.00	34.29	85
3	10875.00	-53.23	4.20	12.05	Horizontal	-42.12	-13.00	29.12	62
4	14500.00	-53.40	5.50	14.23	Horizontal	-40.92	-13.00	27.92	30
5	18125.00	--	--	--	--	/	-13.00	/	/
6	21750.00	--	--	--	--	/	-13.00	/	/
7	25375.00	--	--	--	--	/	-13.00	/	/
8	29000.00	--	--	--	--	/	-13.00	/	/
9	32625.00	--	--	--	--	/	-13.00	/	/
10	36250.00	--	--	--	--	/	-13.00	/	/

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

NR n48 10MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	7250.00	-60.42	2.50	11.35	Vertical	-47.62	-13.00	34.62	65
3	10875.00	-53.12	4.20	12.05	Vertical	-43.30	-13.00	30.30	20
4	14500.00	-50.94	5.50	14.23	Vertical	-40.73	-13.00	27.73	30
5	18125.00	--	--	--	--	/	-13.00	/	/
6	21750.00	--	--	--	--	/	-13.00	/	/
7	25375.00	--	--	--	--	/	-13.00	/	/
8	29000.00	--	--	--	--	/	-13.00	/	/
9	32625.00	--	--	--	--	/	-13.00	/	/
10	36250.00	--	--	--	--	/	-13.00	/	/

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV30	100815	2024-12-02	2025-12-01
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2022-09-29	2025-09-28
Horn Antenna	SCHWARZBECK	BBHA 9120D	1594	2023-12-05	2026-12-04
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

******* END OF REPORT *******