RF TEST REPORT

Applicant	Smawave Technology Co. ,Ltd
FCC ID	2AU8HSRL620
Product	5G ODU_NA
Brand	Smawave
Model	SRL620
Report No.	R2408A1140-R1V2
Issue Date	November 22, 2024

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2023)/ FCC CFR 47 Part 22H (2023)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	November 21, 2024
Rev.1	Update description.	November 22, 2024
Rev.2	Update information.	November 22, 2024
Note: This revised report (Report No.: R2408A1140-R1V2) supersedes and replaces the previously issued report (Report No.: R2408A1140-R1V1). 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	RF Power Output and Effective Radiated Power	22.913(a)(1)	PASS
2	Radiated Spurious Emission	2.1053 / 22.917 (a)	PASS
3	Occupied Bandwidth	Refer to the Module report (Report No.: 2303RSU050-U2 / 2303RSU050-U7)	
4	Band Edge Compliance		
5	Peak-to-Average Power Ratio		
6	Frequency Stability		
7	Spurious Emissions at Antenna Terminals		
Date of Testing: September 6, 2024 ~ October 14, 2024 Date of Sample Received: August 19, 2024			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. 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.			

Only Radiated Spurious Emission is tested for SRL620 in this report, and because of the change of antenna gain, Effective Radiated Power also re evaluated. Other test items refer to the Module report (Report No.: 2303RSU050-U2 / 2303RSU050-U7, FCC ID: XMR2023RG520NNA, Grant date: 05/07/2023).

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 measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform 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
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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	SRL620		
Lab internal SN	R2408A1140/S01		
Hardware Version	V1.0		
Software Version	SQA2090_V1.1.4-NA		
Power Supply	AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	LTE Band 5 / NR Band n5:	3.00 dBi	
	LTE Band 26 / NR Band n26:	3.00 dBi	
Test Mode(s)	LTE Band 5/26; NR Band n5/n26 CA_5B		
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 Release	16		
Maximum E.R.P	LTE Band 5/26	23.66 dBm	
	NR Band n5/n26	24.76 dBm	
	CA_5B	24.30 dBm	
Rated Power Supply Voltage	52 V		
Operating Voltage	Minimum: 50.5 V Maximum: 53.5 V		
Operating Temperature	Lowest: -30°C Highest: +55°C		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	LTE Band 5	824 ~ 849	869 ~ 894
	LTE Band 26	824 ~ 849	869 ~ 894
	NR Band n5	824 ~ 849	869 ~ 894
	NR Band n26	824 ~ 849	869 ~ 894
EUT Accessory			
POE Adapter 1	Manufacturer: SHENZHEN TOPOW ELECTRONICS CO., LTD Model: TPT15S54A-PSE		

POE Adapter 2	Manufacturer: SHENZHEN TOPOW ELECTRONICS CO., LTD. Model: TPT26S52A-PSE
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. There is more than one POE Adapter, each one should be applied throughout the compliance test respectively, and however, only the worst case (POE Adapter 1) will be recorded in this report.	

3. Applied Standards

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

Test standards:
FCC CFR 47 Part 22H (2023)

FCC CFR47 Part 2 (2023)

Reference standard:
ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4. Test Configuration

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

5. Test Case

5.1. RF Power Output and Effective Radiated Power

Ambient Condition

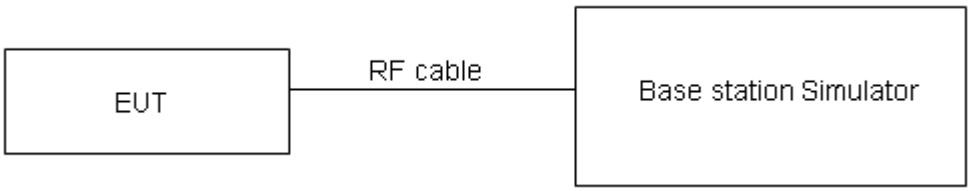
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:
EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)
EIRP (dBm) = ERP (dBm) + 2.15 (dB).

Test Setup



Limits

Rule Part 22.913(a) (1) the ERP of base stations and repeaters must not exceed—

(i) 500 watts per emission; or

(ii) 400 watts/MHz (PSD) per sector.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.4 dB for RF power output, *k* = 2, *U*= 1.19 dB for ERP.

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

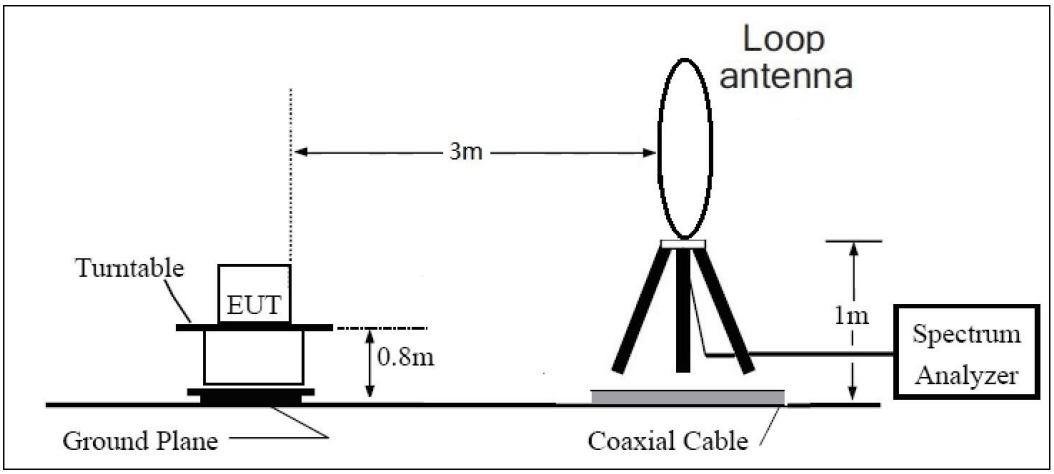
Method of Measurement

1. The testing follows FCC KDB 971168 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=100kHz, VBW=300kHz, 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:
Power (EIRP) = PMea - PAg - Pcl + Ga
The measurement results are amend as described below:
Power (EIRP) = PMea - Pcl + Ga
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dB.

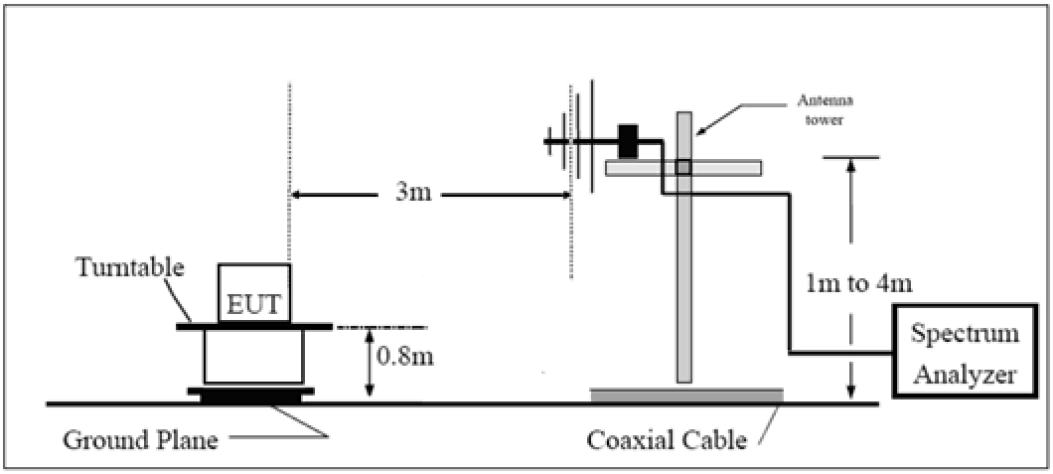
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test Setup

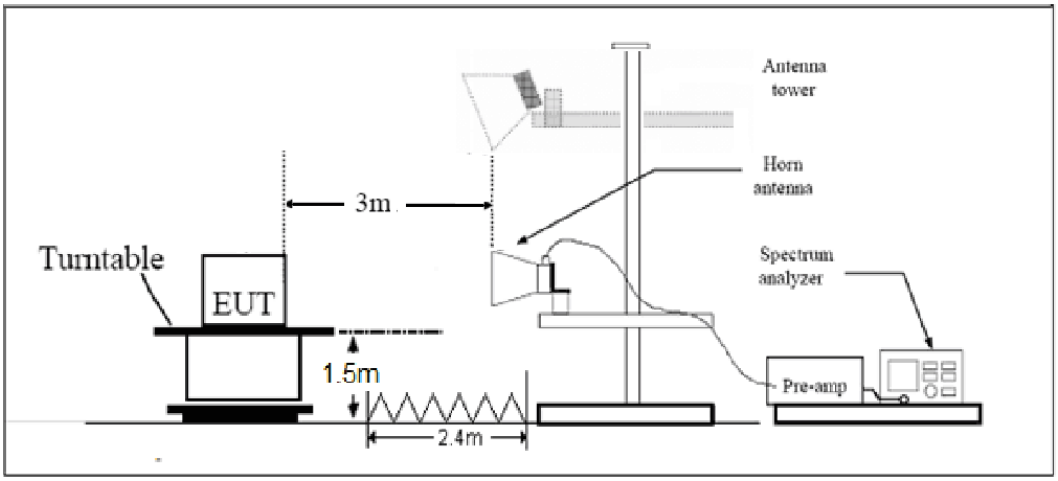
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m

Limits

Rule Part 22.917(a) specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) Db.”

Limit	-13 dBm

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. RF Power Output and Effective Radiated Power

LTE Band 5/26					
Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)
QPSK					
824.70	1.4	1	0	22.78	23.63
836.50				22.81	23.66
848.30				22.68	23.53
824.70	1.4	1	2	22.80	23.65
836.50				22.74	23.59
848.30				22.64	23.49
824.70	1.4	1	6	22.64	23.49
836.50				22.75	23.60
848.30				22.66	23.51
824.70	1.4	6	0	22.20	23.05
836.50				22.23	23.08
848.30				22.21	23.06
825.50	3	1	0	22.69	23.54
836.50				22.72	23.57
846.50				22.69	23.54
825.50	3	1	7	22.80	23.65
836.50				22.73	23.58
846.50				22.75	23.60
825.50	3	1	14	22.66	23.51
836.50				22.73	23.58
846.50				22.77	23.62
825.50	3	15	0	22.21	23.06
836.50				22.23	23.08
846.50				22.17	23.02
826.50	5	1	0	22.69	23.54
836.50				22.77	23.62
846.50				22.76	23.61
826.50	5	1	12	22.75	23.60
836.50				22.68	23.53
846.50				22.81	23.66
826.50	5	1	24	22.64	23.49
836.50				22.79	23.64
846.50				22.81	23.66

826.50	5	25	0	22.21	23.06
836.50				22.31	23.16
846.50				22.28	23.13
829.00	10	1	0	22.61	23.46
836.50				22.68	23.53
844.00				22.78	23.63
829.00	10	1	24	22.57	23.42
836.50				22.78	23.63
844.00				22.73	23.58
829.00	10	1	49	22.57	23.42
836.50				22.68	23.53
844.00				22.70	23.55
829.00	10	50	0	22.12	22.97
836.50				22.31	23.16
844.00				22.31	23.16
821.50	15	1	0	22.36	23.21
836.50				22.48	23.33
841.50				22.45	23.30
821.50	15	1	37	22.35	23.20
836.50				22.55	23.40
841.50				22.45	23.30
821.50	15	1	74	22.52	23.37
836.50				22.31	23.16
841.50				22.36	23.21
821.50	15	75	0	21.91	22.76
836.50				21.95	22.80
841.50				21.99	22.84
16QAM					
824.70	1.4	1	0	22.39	23.24
836.50				22.11	22.96
848.30				22.28	23.13
824.70	1.4	1	2	22.50	23.35
836.50				22.22	23.07
848.30				22.31	23.16
824.70	1.4	1	6	22.23	23.08
836.50				22.48	23.33
848.30				22.35	23.20
824.70	1.4	6	0	21.21	22.06
836.50				21.24	22.09
848.30				21.21	22.06
825.50	3	1	0	22.28	23.13
836.50				22.42	23.27
846.50				22.39	23.24
825.50	3	1	7	22.31	23.16

836.50				22.37	23.22
846.50				22.37	23.22
825.50	3	1	14	22.35	23.20
836.50				22.30	23.15
846.50				22.35	23.20
825.50	3	15	0	21.21	22.06
836.50				21.30	22.15
846.50				21.22	22.07
826.50	5	1	0	22.29	23.14
836.50				22.60	23.45
846.50				22.53	23.38
826.50	5	1	12	22.47	23.32
836.50				22.61	23.46
846.50				22.64	23.49
826.50	5	1	24	22.29	23.14
836.50				22.38	23.23
846.50				22.49	23.34
826.50	5	25	0	21.22	22.07
836.50				21.30	22.15
846.50				21.31	22.16
829.00	10	1	0	22.36	23.21
836.50				22.30	23.15
844.00				22.50	23.35
829.00	10	1	24	22.21	23.06
836.50				22.49	23.34
844.00				22.28	23.13
829.00	10	1	49	22.48	23.33
836.50				22.33	23.18
844.00				22.21	23.06
829.00	10	50	0	21.13	21.98
836.50				21.34	22.19
844.00				21.36	22.21
821.50	15	1	0	22.10	22.95
836.50				22.08	22.93
841.50				22.17	23.02
821.50	15	1	37	22.08	22.93
836.50				21.92	22.77
841.50				22.14	22.99
821.50	15	1	74	22.08	22.93
836.50				21.89	22.74
841.50				21.71	22.56
821.50	15	75	0	20.92	21.77
836.50				20.87	21.72
841.50				20.99	21.84

64QAM					
824.70	1.4	1	0	21.20	22.05
836.50				21.11	21.96
848.30				21.14	21.99
824.70	1.4	1	2	21.38	22.23
836.50				21.23	22.08
848.30				21.45	22.30
824.70	1.4	1	6	21.18	22.03
836.50				21.28	22.13
848.30				21.02	21.87
824.70	1.4	6	0	20.17	21.02
836.50				20.20	21.05
848.30				20.11	20.96
825.50	3	1	0	21.27	22.12
836.50				21.36	22.21
846.50				21.38	22.23
825.50	3	1	7	21.44	22.29
836.50				21.33	22.18
846.50				21.34	22.19
825.50	3	1	14	21.19	22.04
836.50				21.35	22.20
846.50				21.31	22.16
825.50	3	15	0	20.23	21.08
836.50				20.19	21.04
846.50				20.17	21.02
826.50	5	1	0	21.38	22.23
836.50				21.17	22.02
846.50				21.11	21.96
826.50	5	1	12	21.27	22.12
836.50				21.39	22.24
846.50				21.30	22.15
826.50	5	1	24	21.26	22.11
836.50				21.22	22.07
846.50				21.42	22.27
826.50	5	25	0	20.23	21.08
836.50				20.13	20.98
846.50				20.09	20.94
829.00	10	1	0	21.36	22.21
836.50				21.34	22.19
844.00				21.39	22.24
829.00	10	1	24	21.34	22.19
836.50				21.39	22.24
844.00				21.39	22.24
829.00	10	1	49	21.14	21.99

836.50				21.43	22.28
844.00				21.31	22.16
829.00	10	50	0	20.27	21.12
836.50				20.24	21.09
844.00				20.17	21.02
821.50	15	1	0	21.21	22.06
836.50				21.27	22.12
841.50				21.11	21.96
821.50	15	1	37	21.22	22.07
836.50				21.44	22.29
841.50				21.15	22.00
821.50	15	1	74	21.17	22.02
836.50				21.17	22.02
841.50				21.01	21.86
821.50	15	75	0	20.02	20.87
836.50				20.02	20.87
841.50				20.11	20.96
256QAM					
824.70	1.4	1	0	18.17	19.02
836.50				18.42	19.27
848.30				18.23	19.08
824.70	1.4	1	2	18.27	19.12
836.50				18.34	19.19
848.30				18.29	19.14
824.70	1.4	1	6	18.40	19.25
836.50				18.27	19.12
848.30				18.17	19.02
824.70	1.4	6	0	18.11	18.96
836.50				18.17	19.02
848.30				18.14	18.99
825.50	3	1	0	18.26	19.11
836.50				18.28	19.13
846.50				18.30	19.15
825.50	3	1	7	18.36	19.21
836.50				18.61	19.46
846.50				18.51	19.36
825.50	3	1	14	18.40	19.25
836.50				18.16	19.01
846.50				18.32	19.17
825.50	3	15	0	18.25	19.10
836.50				18.17	19.02
846.50				18.18	19.03
826.50	5	1	0	18.34	19.19
836.50				18.53	19.38

846.50				18.13	18.98
826.50	5	1	12	18.26	19.11
836.50				18.30	19.15
846.50				18.21	19.06
826.50	5	1	24	18.40	19.25
836.50				18.31	19.16
846.50				18.35	19.20
826.50	5	25	0	18.16	19.01
836.50				18.23	19.08
846.50				18.13	18.98
829.00	10	1	0	18.25	19.10
836.50				18.13	18.98
844.00				18.32	19.17
829.00	10	1	24	18.38	19.23
836.50				18.39	19.24
844.00				18.33	19.18
829.00	10	1	49	18.30	19.15
836.50				18.28	19.13
844.00				18.32	19.17
829.00	10	50	0	18.37	19.22
836.50				18.28	19.13
844.00				18.13	18.98
821.50	15	1	0	18.37	19.22
836.50				18.32	19.17
841.50				17.97	18.82
821.50	15	1	37	18.28	19.13
836.50				18.24	19.09
841.50				18.34	19.19
821.50	15	1	74	18.18	19.03
836.50				18.19	19.04
841.50				18.27	19.12
821.50	15	75	0	18.07	18.92
836.50				18.08	18.93
841.50				18.14	18.99

Intra-Band CA_5B							
Frequency (MHz)		Channel Bandwidth (MHz)	Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	ERP (dBm)
PCC	SCC						
QPSK							
826.8	834.0	5+10	15	P_1@0	S_0@0	23.23	24.08
831.8	839.0		15			23.24	24.09
836.8	844.0		15			23.40	24.25

826.8	834.0		15	P_1@13	S_0@0	23.24	24.09
831.8	839.0		15			23.26	24.11
836.8	844.0		15			23.41	24.26
826.8	834.0		15	P_1@24	S_0@0	23.19	24.04
831.8	839.0		15			23.26	24.11
836.8	844.0		15			23.27	24.12
826.8	834.0		15	P_25@0	S_50@0	22.08	22.93
831.8	839.0		15			22.07	22.92
836.8	844.0		15			22.11	22.96
829.0	836.2	10+5	15	P_1@0	S_0@0	23.32	24.17
834.0	841.2		15			23.21	24.06
839.0	846.2		15			23.20	24.05
829.0	836.2		15	P_1@25	S_0@0	23.44	24.29
834.0	841.2		15			23.23	24.08
839.0	846.2		15			23.41	24.26
829.0	836.2		15	P_1@49	S_0@0	23.23	24.08
834.0	841.2		15			23.45	24.30
839.0	846.2		15			23.31	24.16
829.0	836.2		15	P_50@0	S_25@0	22.11	22.96
834.0	841.2		15			22.06	22.91
839.0	846.2		15			22.07	22.92
829.0	838.9	10+10	20	P_1@0	S_0@0	23.11	23.96
831.6	841.5		20			23.16	24.01
834.1	844.0		20			23.18	24.03
829.0	838.9		20	P_1@25	S_0@0	23.29	24.14
831.6	841.5		20			23.26	24.11
834.1	844.0		20			23.44	24.29
829.0	838.9		20	P_1@49	S_0@0	23.31	24.16
831.6	841.5		20			23.38	24.23
834.1	844.0		20			23.28	24.13
829.0	838.9		20	P_50@0	S_50@0	22.11	22.96
831.6	841.5		20			22.10	22.95
834.1	844.0		20			22.14	22.99
16QAM							
826.8	834.0	5+10	15	P_1@0	S_0@0	22.44	23.29
831.8	839.0		15			22.38	23.23
836.8	844.0		15			22.55	23.40
826.8	834.0		15	P_1@13	S_0@0	22.53	23.38
831.8	839.0		15			22.55	23.40
836.8	844.0		15			22.53	23.38
826.8	834.0		15	P_1@24	S_0@0	22.56	23.41
831.8	839.0		15			22.48	23.33
836.8	844.0		15			22.51	23.36
826.8	834.0		15	P_25@0	S_50@0	21.11	21.96

831.8	839.0		15			21.11	21.96
836.8	844.0		15			21.08	21.93
829.0	836.2	10+5	15	P_1@0	S_0@0	22.49	23.34
834.0	841.2		15			22.53	23.38
839.0	846.2		15			22.48	23.33
829.0	836.2		15	P_1@25	S_0@0	22.68	23.53
834.0	841.2		15			22.49	23.34
839.0	846.2		15			22.62	23.47
829.0	836.2		15	P_1@49	S_0@0	22.39	23.24
834.0	841.2		15			22.35	23.20
839.0	846.2		15			22.59	23.44
829.0	836.2		15	P_50@0	S_25@0	21.08	21.93
834.0	841.2		15			21.09	21.94
839.0	846.2		15			21.08	21.93
829.0	838.9	10+10	20	P_1@0	S_0@0	22.37	23.22
831.6	841.5		20			22.32	23.17
834.1	844.0		20			22.49	23.34
829.0	838.9		20	P_1@25	S_0@0	22.61	23.46
831.6	841.5		20			22.45	23.30
834.1	844.0		20			22.55	23.40
829.0	838.9		20	P_1@49	S_0@0	22.62	23.47
831.6	841.5		20			22.53	23.38
834.1	844.0		20			22.45	23.30
829.0	838.9		20	P_50@0	S_50@0	21.14	21.99
831.6	841.5		20			21.09	21.94
834.1	844.0		20			21.12	21.97
64QAM							
826.8	834.0	5+10	15	P_1@0	S_0@0	21.47	22.32
831.8	839.0		15			21.52	22.37
836.8	844.0		15			21.90	22.75
826.8	834.0		15	P_1@13	S_0@0	21.69	22.54
831.8	839.0		15			21.38	22.23
836.8	844.0		15			21.54	22.39
826.8	834.0		15	P_1@24	S_0@0	21.46	22.31
831.8	839.0		15			21.47	22.32
836.8	844.0		15			21.56	22.41
826.8	834.0		15	P_25@0	S_50@0	21.04	21.89
831.8	839.0		15			21.10	21.95
836.8	844.0		15			21.10	21.95
829.0	836.2	10+5	15	P_1@0	S_0@0	21.63	22.48
834.0	841.2		15			21.51	22.36
839.0	846.2		15			21.44	22.29
829.0	836.2		15	P_1@25	S_0@0	21.69	22.54
834.0	841.2		15			21.65	22.50

839.0	846.2		15			21.78	22.63
829.0	836.2		15			21.52	22.37
834.0	841.2		15	P_1@49	S_0@0	21.63	22.48
839.0	846.2		15			21.57	22.42
829.0	836.2		15			21.10	21.95
834.0	841.2		15	P_50@0	S_25@0	21.08	21.93
839.0	846.2		15			21.07	21.92
829.0	838.9		20			21.45	22.30
831.6	841.5		20	P_1@0	S_0@0	21.59	22.44
834.1	844.0		20			21.41	22.26
829.0	838.9		20			21.63	22.48
831.6	841.5		20	P_1@25	S_0@0	21.64	22.49
834.1	844.0		20			21.59	22.44
829.0	838.9	10+10	20			21.52	22.37
831.6	841.5		20	P_1@49	S_0@0	21.63	22.48
834.1	844.0		20			21.53	22.38
829.0	838.9		20			21.08	21.93
831.6	841.5		20	P_50@0	S_50@0	21.10	21.95
834.1	844.0		20			21.09	21.94
256QAM							
826.8	834.0		15			18.42	19.27
831.8	839.0		15	P_1@0	S_0@0	18.62	19.47
836.8	844.0		15			18.64	19.49
826.8	834.0		15			18.49	19.34
831.8	839.0		15	P_1@13	S_0@0	18.48	19.33
836.8	844.0		15			18.54	19.39
826.8	834.0	5+10	15			18.43	19.28
831.8	839.0		15	P_1@24	S_0@0	18.55	19.40
836.8	844.0		15			18.49	19.34
826.8	834.0		15			19.09	19.94
831.8	839.0		15	P_25@0	S_50@0	19.12	19.97
836.8	844.0		15			19.16	20.01
829.0	836.2		15			18.48	19.33
834.0	841.2		15	P_1@0	S_0@0	18.78	19.63
839.0	846.2		15			18.57	19.42
829.0	836.2		15			18.42	19.27
834.0	841.2		15	P_1@25	S_0@0	18.66	19.51
839.0	846.2		15			18.72	19.57
829.0	836.2	10+5	15			18.52	19.37
834.0	841.2		15	P_1@49	S_0@0	18.39	19.24
839.0	846.2		15			18.55	19.40
829.0	836.2		15			19.13	19.98
834.0	841.2		15	P_50@0	S_25@0	19.12	19.97
839.0	846.2		15			19.08	19.93

829.0	838.9	10+10	20	P_1@0	S_0@0	18.57	19.42
831.6	841.5		20			18.54	19.39
834.1	844.0		20			18.59	19.44
829.0	838.9		20	P_1@25	S_0@0	18.52	19.37
831.6	841.5		20			18.67	19.52
834.1	844.0		20			18.46	19.31
829.0	838.9		20	P_1@49	S_0@0	18.58	19.43
831.6	841.5		20			18.48	19.33
834.1	844.0		20			18.55	19.40
829.0	838.9		20	P_50@0	S_50@0	19.12	19.97
831.6	841.5		20			19.11	19.96
834.1	844.0		20			19.06	19.91

n5_SA					
Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)
DFT-s OFDM PI/2 BPSK					
826.5	5	12	6	23.35	24.20
		1	1	23.27	24.12
		1	23	23.40	24.25
		25	0	23.36	24.21
		1	24	23.35	24.20
		1	0	23.29	24.14
836.5	5	12	6	23.42	24.27
		1	1	23.31	24.16
		1	23	23.38	24.23
		25	0	23.42	24.27
		1	24	23.32	24.17
		1	0	23.32	24.17
846.5	5	12	6	23.32	24.17
		1	1	23.25	24.10
		1	23	23.24	24.09
		25	0	23.34	24.19
		1	24	23.22	24.07
		1	0	23.29	24.14
829	10	25	12	23.43	24.28
		1	1	23.25	24.10
		1	50	23.28	24.13
		50	0	23.39	24.24
		1	51	23.23	24.08
		1	0	23.20	24.05
DFT-s OFDM PI/2 BPSK					

836.5	10	25	12	23.47	24.32
		1	1	23.32	24.17
		1	50	23.29	24.14
		50	0	23.44	24.29
		1	51	23.26	24.11
		1	0	23.34	24.19
844	10	25	12	23.39	24.24
		1	1	23.31	24.16
		1	50	23.18	24.03
		50	0	23.38	24.23
		1	51	23.17	24.02
		1	0	23.30	24.15
831.5	15	36	18	23.60	24.45
		1	1	23.44	24.29
		1	77	23.35	24.20
		75	0	23.66	24.51
		1	78	23.28	24.13
		1	0	23.45	24.30
836.5	15	36	18	23.55	24.40
		1	1	23.54	24.39
		1	77	23.27	24.12
		75	0	23.53	24.38
		1	78	23.27	24.12
		1	0	23.44	24.29
DFT-s OFDM PI/2 BPSK					
841.5	15	36	18	23.44	24.29
		1	1	23.48	24.33
		1	77	23.25	24.10
		75	0	23.51	24.36
		1	78	23.14	23.99
		1	0	23.45	24.30
834	20	50	25	23.60	24.45
		1	1	23.47	24.32
		1	104	23.31	24.16
		100	0	23.63	24.48
		1	105	23.31	24.16
		1	0	23.52	24.37
836.5	20	50	25	23.59	24.44
		1	1	23.49	24.34
		1	104	23.20	24.05
		100	0	23.56	24.41
		1	105	23.20	24.05

		1	0	23.43	24.28
836	20	50	25	23.49	24.34
		1	1	23.48	24.33
		1	104	23.17	24.02
		100	0	23.53	24.38
		1	105	23.16	24.01
		1	0	23.54	24.39
DFT-s OFDM QPSK					
826.5	5	12	6	23.41	24.26
		1	1	23.51	24.36
		1	23	23.55	24.40
		25	0	23.35	24.20
		1	24	23.45	24.30
		1	0	23.36	24.21
836.5	5	12	6	23.40	24.25
		1	1	23.58	24.43
		1	23	23.56	24.41
		25	0	23.47	24.32
		1	24	23.44	24.29
		1	0	23.45	24.30
846.5	5	12	6	23.32	24.17
		1	1	23.41	24.26
		1	23	23.36	24.21
		25	0	23.23	24.08
		1	24	23.29	24.14
		1	0	23.45	24.30
829	10	25	12	23.38	24.23
		1	1	23.46	24.31
		1	50	23.39	24.24
		50	0	23.43	24.28
		1	51	23.37	24.22
		1	0	23.31	24.16
DFT-s OFDM QPSK					
836.5	10	25	12	23.43	24.28
		1	1	23.50	24.35
		1	50	23.48	24.33
		50	0	23.41	24.26
		1	51	23.39	24.24
		1	0	23.39	24.24
		25	12	23.30	24.15
		1	1	23.50	24.35
		1	50	23.28	24.13

844	10	50	0	23.38	24.23
		1	51	23.17	24.02
		1	0	23.44	24.29
831.5	15	36	18	23.62	24.47
		1	1	23.59	24.44
		1	77	23.35	24.20
		75	0	23.64	24.49
		1	78	23.41	24.26
		1	0	23.51	24.36
836.5	15	36	18	23.47	24.32
		1	1	23.82	24.67
		1	77	23.42	24.27
		75	0	23.58	24.43
		1	78	23.49	24.34
		1	0	23.60	24.45
DFT-s OFDM QPSK					
841.5	15	36	18	23.48	24.33
		1	1	23.68	24.53
		1	77	23.29	24.14
		75	0	23.49	24.34
		1	78	23.27	24.12
		1	0	23.50	24.35
834	20	50	25	23.62	24.47
		1	1	23.65	24.50
		1	104	23.44	24.29
		100	0	23.63	24.48
		1	105	23.42	24.27
		1	0	23.65	24.50
836.5	20	50	25	23.54	24.39
		1	1	23.68	24.53
		1	104	23.40	24.25
		100	0	23.57	24.42
		1	105	23.42	24.27
		1	0	23.78	24.63
836	20	50	25	23.52	24.37
		1	1	23.74	24.59
		1	104	23.38	24.23
		100	0	23.54	24.39
		1	105	23.26	24.11
		1	0	23.76	24.61
DFT-s OFDM 16QAM					
		12	6	23.08	23.93

826.5	5	1	1	23.29	24.14
		1	23	23.40	24.25
		25	0	22.32	23.17
		1	24	22.55	23.40
		1	0	22.48	23.33
836.5	5	12	6	23.31	24.16
		1	1	23.68	24.53
		1	23	23.67	24.52
		25	0	22.43	23.28
		1	24	22.66	23.51
		1	0	22.67	23.52
846.5	5	12	6	23.13	23.98
		1	1	23.33	24.18
		1	23	23.22	24.07
		25	0	22.31	23.16
		1	24	22.43	23.28
		1	0	22.48	23.33
829	10	25	12	23.39	24.24
		1	1	23.64	24.49
		1	50	23.58	24.43
		50	0	22.43	23.28
		1	51	22.45	23.30
		1	0	22.50	23.35
DFT-s OFDM 16QAM					
836.5	10	25	12	23.44	24.29
		1	1	23.56	24.41
		1	50	23.55	24.40
		50	0	22.39	23.24
		1	51	22.56	23.41
		1	0	22.58	23.43
844	10	25	12	23.35	24.20
		1	1	23.55	24.40
		1	50	23.47	24.32
		50	0	22.35	23.20
		1	51	22.43	23.28
		1	0	22.61	23.46
831.5	15	36	18	23.65	24.50
		1	1	23.44	24.29
		1	77	23.27	24.12
		75	0	22.67	23.52
		1	78	22.44	23.29
		1	0	22.64	23.49

836.5	15	36	18	23.54	24.39
		1	1	23.79	24.64
		1	77	23.57	24.42
		75	0	22.56	23.41
		1	78	22.55	23.40
		1	0	22.70	23.55
DFT-s OFDM 16QAM					
841.5	15	36	18	23.49	24.34
		1	1	23.39	24.24
		1	77	23.20	24.05
		75	0	22.47	23.32
		1	78	22.34	23.19
		1	0	22.67	23.52
834	20	50	25	23.55	24.40
		1	1	23.85	24.70
		1	104	23.58	24.43
		100	0	22.62	23.47
		1	105	22.56	23.41
		1	0	22.75	23.60
836.5	20	50	25	23.56	24.41
		1	1	23.74	24.59
		1	104	23.55	24.40
		100	0	22.56	23.41
		1	105	22.48	23.33
		1	0	22.70	23.55
836	20	50	25	23.44	24.29
		1	1	23.91	24.76
		1	104	23.51	24.36
		100	0	22.55	23.40
		1	105	22.44	23.29
		1	0	22.80	23.65
DFT-s OFDM 64QAM					
826.5	5	12	6	21.91	22.76
		1	1	22.04	22.89
		1	23	22.21	23.06
		25	0	21.89	22.74
		1	24	22.10	22.95
		1	0	22.09	22.94
		12	6	21.96	22.81
		1	1	22.11	22.96
		1	23	22.10	22.95
		25	0	22.06	22.91

836.5	5	1	24	22.17	23.02
		1	0	22.08	22.93
846.5	5	12	6	21.77	22.62
		1	1	22.15	23.00
		1	23	21.96	22.81
		25	0	21.90	22.75
		1	24	21.97	22.82
		1	0	22.09	22.94
829	10	25	12	21.98	22.83
		1	1	21.97	22.82
		1	50	22.05	22.90
		50	0	21.93	22.78
		1	51	21.99	22.84
		1	0	22.04	22.89
DFT-s OFDM 64QAM					
836.5	10	25	12	22.04	22.89
		1	1	22.10	22.95
		1	50	22.10	22.95
		50	0	22.02	22.87
		1	51	22.02	22.87
		1	0	22.16	23.01
844	10	25	12	21.93	22.78
		1	1	22.09	22.94
		1	50	22.18	23.03
		50	0	21.86	22.71
		1	51	21.59	22.44
		1	0	22.15	23.00
831.5	15	36	18	22.13	22.98
		1	1	22.24	23.09
		1	77	22.07	22.92
		75	0	22.13	22.98
		1	78	22.15	23.00
		1	0	22.23	23.08
836.5	15	36	18	22.12	22.97
		1	1	22.17	23.02
		1	77	22.14	22.99
		75	0	22.11	22.96
		1	78	22.14	22.99
		1	0	22.25	23.10
DFT-s OFDM 64QAM					
		36	18	22.05	22.90
		1	1	22.31	23.16

841.5	15	1	77	21.96	22.81
		75	0	22.00	22.85
		1	78	22.02	22.87
		1	0	22.32	23.17
834	20	50	25	22.14	22.99
		1	1	22.29	23.14
		1	104	22.06	22.91
		100	0	22.10	22.95
		1	105	22.15	23.00
		1	0	22.28	23.13
836.5	20	50	25	22.11	22.96
		1	1	22.22	23.07
		1	104	22.12	22.97
		100	0	22.05	22.90
		1	105	22.04	22.89
		1	0	22.19	23.04
836	20	50	25	22.10	22.95
		1	1	22.29	23.14
		1	104	22.01	22.86
		100	0	22.02	22.87
		1	105	22.01	22.86
		1	0	22.36	23.21
DFT-s OFDM 256QAM					
826.5	5	12	6	19.79	20.64
		1	1	19.48	20.33
		1	23	19.57	20.42
		25	0	19.91	20.76
		1	24	19.55	20.40
		1	0	19.45	20.30
836.5	5	12	6	19.79	20.64
		1	1	19.54	20.39
		1	23	19.56	20.41
		25	0	19.90	20.75
		1	24	19.62	20.47
		1	0	19.60	20.45
846.5	5	12	6	19.70	20.55
		1	1	19.49	20.34
		1	23	19.42	20.27
		25	0	19.76	20.61
		1	24	19.41	20.26
		1	0	19.46	20.31
		25	12	19.87	20.72

829	10	1	1	19.55	20.40
		1	50	19.42	20.27
		50	0	19.91	20.76
		1	51	19.47	20.32
		1	0	19.55	20.40
DFT-s OFDM 256QAM					
836.5	10	25	12	19.85	20.70
		1	1	19.53	20.38
		1	50	19.50	20.35
		50	0	19.85	20.70
		1	51	19.46	20.31
		1	0	19.59	20.44
844	10	25	12	19.74	20.59
		1	1	19.51	20.36
		1	50	19.36	20.21
		50	0	19.78	20.63
		1	51	19.35	20.20
		1	0	19.53	20.38
831.5	15	36	18	20.06	20.91
		1	1	19.77	20.62
		1	77	19.55	20.40
		75	0	20.08	20.93
		1	78	19.57	20.42
		1	0	19.77	20.62
836.5	15	36	18	19.97	20.82
		1	1	19.84	20.69
		1	77	19.53	20.38
		75	0	19.97	20.82
		1	78	19.47	20.32
		1	0	19.66	20.51
DFT-s OFDM 256QAM					
841.5	15	36	18	19.95	20.80
		1	1	19.66	20.51
		1	77	19.31	20.16
		75	0	20.01	20.86
		1	78	19.29	20.14
		1	0	19.69	20.54
834	20	50	25	20.03	20.88
		1	1	19.75	20.60
		1	104	19.57	20.42
		100	0	20.01	20.86
		1	105	19.60	20.45

		1	0	19.80	20.65
836.5	20	50	25	20.04	20.89
		1	1	19.66	20.51
		1	104	19.52	20.37
		100	0	19.96	20.81
		1	105	19.57	20.42
		1	0	19.71	20.56
836	20	50	25	20.01	20.86
		1	1	19.85	20.70
		1	104	19.52	20.37
		100	0	20.06	20.91
		1	105	19.52	20.37
		1	0	19.85	20.70
CP OFDM QPSK					
826.5	5	13	6	22.78	23.63
		1	1	22.95	23.80
		1	23	22.96	23.81
		25	0	21.38	22.23
		1	24	21.40	22.25
		1	0	21.41	22.26
836.5	5	13	6	22.82	23.67
		1	1	23.14	23.99
		1	23	23.09	23.94
		25	0	21.37	22.22
		1	24	21.43	22.28
		1	0	21.40	22.25
846.5	5	13	6	22.67	23.52
		1	1	22.98	23.83
		1	23	23.00	23.85
		25	0	21.28	22.13
		1	24	21.28	22.13
		1	0	21.35	22.20
829	10	26	13	22.83	23.68
		1	1	23.06	23.91
		1	50	23.06	23.91
		52	0	21.44	22.29
		1	51	21.33	22.18
		1	0	21.42	22.27
CP OFDM QPSK					
		26	13	22.94	23.79
		1	1	23.04	23.89
		1	50	23.03	23.88

836.5	10	52	0	21.42	22.27
		1	51	21.32	22.17
		1	0	21.42	22.27
844	10	26	13	22.78	23.63
		1	1	23.16	24.01
		1	50	22.92	23.77
		52	0	21.30	22.15
		1	51	21.18	22.03
		1	0	21.32	22.17
831.5	15	39	19	23.00	23.85
		1	1	23.21	24.06
		1	77	23.12	23.97
		79	0	21.61	22.46
		1	78	21.39	22.24
		1	0	21.57	22.42
836.5	15	39	19	22.90	23.75
		1	1	23.34	24.19
		1	77	23.03	23.88
		79	0	21.51	22.36
		1	78	21.39	22.24
		1	0	21.64	22.49
CP OFDM QPSK					
841.5	15	39	19	22.86	23.71
		1	1	22.92	23.77
		1	77	22.75	23.60
		79	0	21.50	22.35
		1	78	21.30	22.15
		1	0	21.58	22.43
834	20	53	26	23.02	23.87
		1	1	23.24	24.09
		1	104	23.11	23.96
		106	0	21.63	22.48
		1	105	21.38	22.23
		1	0	21.51	22.36
836.5	20	53	26	23.05	23.90
		1	1	23.29	24.14
		1	104	23.00	23.85
		106	0	21.48	22.33
		1	105	21.38	22.23
		1	0	21.66	22.51
		53	26	23.03	23.88
		1	1	23.35	24.20

836	20	1	104	22.95	23.80
		106	0	21.52	22.37
		1	105	21.30	22.15
		1	0	21.61	22.46
CP OFDM 16QAM					
826.5	5	13	6	22.57	23.42
		1	1	22.53	23.38
		1	23	22.68	23.53
		25	0	21.56	22.41
		1	24	21.60	22.45
		1	0	21.58	22.43
836.5	5	13	6	22.52	23.37
		1	1	22.67	23.52
		1	23	22.30	23.15
		25	0	21.43	22.28
		1	24	21.20	22.05
		1	0	21.11	21.96
846.5	5	13	6	22.49	23.34
		1	1	22.49	23.34
		1	23	22.38	23.23
		25	0	21.36	22.21
		1	24	21.36	22.21
		1	0	21.60	22.45
829	10	26	13	22.50	23.35
		1	1	22.54	23.39
		1	50	22.48	23.33
		52	0	21.36	22.21
		1	51	21.12	21.97
		1	0	21.15	22.00
CP OFDM 16QAM					
836.5	10	26	13	22.44	23.29
		1	1	22.53	23.38
		1	50	22.49	23.34
		52	0	21.42	22.27
		1	51	21.14	21.99
		1	0	21.24	22.09
844	10	26	13	22.37	23.22
		1	1	22.56	23.41
		1	50	22.33	23.18
		52	0	21.31	22.16
		1	51	20.93	21.78
		1	0	21.17	22.02

831.5	15	39	19	22.61	23.46
		1	1	22.67	23.52
		1	77	22.63	23.48
		79	0	21.69	22.54
		1	78	21.51	22.36
		1	0	21.66	22.51
836.5	15	39	19	22.50	23.35
		1	1	22.67	23.52
		1	77	22.51	23.36
		79	0	21.59	22.44
		1	78	21.20	22.05
		1	0	21.33	22.18
CP OFDM 16QAM					
841.5	15	39	19	22.45	23.30
		1	1	22.70	23.55
		1	77	22.50	23.35
		79	0	21.58	22.43
		1	78	21.53	22.38
		1	0	21.65	22.50
834	20	53	26	22.50	23.35
		1	1	22.69	23.54
		1	104	22.57	23.42
		106	0	21.57	22.42
		1	105	21.19	22.04
		1	0	21.42	22.27
836.5	20	53	26	22.49	23.34
		1	1	22.70	23.55
		1	104	22.55	23.40
		106	0	21.53	22.38
		1	105	21.22	22.07
		1	0	21.37	22.22
836	20	53	26	22.41	23.26
		1	1	22.81	23.66
		1	104	22.55	23.40
		106	0	21.55	22.40
		1	105	21.14	21.99
		1	0	21.42	22.27
CP OFDM 64QAM					
		13	6	20.91	21.76
		1	1	21.15	22.00
		1	23	21.32	22.17
		25	0	20.85	21.70

826.5	5	1	24	21.33	22.18
		1	0	21.14	21.99
836.5	5	13	6	20.95	21.80
		1	1	20.91	21.76
		1	23	20.91	21.76
		25	0	20.93	21.78
		1	24	20.93	21.78
		1	0	20.91	21.76
846.5	5	13	6	20.93	21.78
		1	1	21.18	22.03
		1	23	21.11	21.96
		25	0	20.78	21.63
		1	24	21.12	21.97
		1	0	21.18	22.03
829	10	26	13	20.91	21.76
		1	1	20.72	21.57
		1	50	20.82	21.67
		52	0	20.95	21.80
		1	51	20.81	21.66
		1	0	20.83	21.68
CP OFDM 64QAM					
836.5	10	26	13	20.93	21.78
		1	1	20.90	21.75
		1	50	20.81	21.66
		52	0	21.00	21.85
		1	51	20.76	21.61
		1	0	20.83	21.68
844	10	26	13	20.83	21.68
		1	1	20.75	21.60
		1	50	20.65	21.50
		52	0	20.89	21.74
		1	51	20.67	21.52
		1	0	20.81	21.66
831.5	15	39	19	21.13	21.98
		1	1	21.30	22.15
		1	77	21.23	22.08
		79	0	21.09	21.94
		1	78	21.22	22.07
		1	0	21.33	22.18
		39	19	21.05	21.90
		1	1	21.06	21.91
		1	77	20.80	21.65

836.5	15	79	0	21.01	21.86
		1	78	20.88	21.73
		1	0	21.04	21.89
CP OFDM 64QAM					
841.5	15	39	19	21.02	21.87
		1	1	21.30	22.15
		1	77	21.06	21.91
		79	0	20.96	21.81
		1	78	21.12	21.97
		1	0	21.39	22.24
834	20	53	26	21.08	21.93
		1	1	21.00	21.85
		1	104	20.93	21.78
		106	0	21.12	21.97
		1	105	20.88	21.73
		1	0	21.03	21.88
836.5	20	53	26	21.09	21.94
		1	1	21.04	21.89
		1	104	20.84	21.69
		106	0	21.05	21.90
		1	105	20.88	21.73
		1	0	21.13	21.98
836	20	53	26	21.04	21.89
		1	1	21.16	22.01
		1	104	20.81	21.66
		106	0	21.02	21.87
		1	105	20.83	21.68
		1	0	21.14	21.99
CP OFDM 256QAM					
826.5	5	13	6	18.05	18.90
		1	1	17.50	18.35
		1	23	17.66	18.51
		25	0	17.84	18.69
		1	24	17.64	18.49
		1	0	17.52	18.37
836.5	5	13	6	18.04	18.89
		1	1	17.68	18.53
		1	23	17.71	18.56
		25	0	17.88	18.73
		1	24	17.80	18.65
		1	0	17.65	18.50
		13	6	17.91	18.76

846.5	5	1	1	17.50	18.35
		1	23	17.51	18.36
		25	0	17.73	18.58
		1	24	17.42	18.27
		1	0	17.57	18.42
829	10	26	13	17.90	18.75
		1	1	17.67	18.52
		1	50	17.69	18.54
		52	0	17.93	18.78
		1	51	17.72	18.57
		1	0	17.76	18.61
CP OFDM 256QAM					
836.5	10	26	13	17.86	18.71
		1	1	17.75	18.60
		1	50	17.74	18.59
		52	0	17.88	18.73
		1	51	17.70	18.55
		1	0	17.72	18.57
844	10	26	13	17.78	18.63
		1	1	17.76	18.61
		1	50	17.62	18.47
		52	0	17.81	18.66
		1	51	17.60	18.45
		1	0	17.76	18.61
831.5	15	39	19	18.07	18.92
		1	1	17.99	18.84
		1	77	17.75	18.60
		79	0	18.10	18.95
		1	78	17.82	18.67
		1	0	18.01	18.86
836.5	15	39	19	18.01	18.86
		1	1	18.05	18.90
		1	77	17.69	18.54
		79	0	18.10	18.95
		1	78	17.78	18.63
		1	0	18.01	18.86
CP OFDM 256QAM					
841.5	15	39	19	17.96	18.81
		1	1	17.85	18.70
		1	77	17.51	18.36
		79	0	18.03	18.88
		1	78	17.52	18.37

		1	0	17.89	18.74
834	20	53	26	18.03	18.88
		1	1	17.98	18.83
		1	104	17.87	18.72
		106	0	18.14	18.99
		1	105	17.82	18.67
		1	0	18.00	18.85
836.5	20	53	26	18.09	18.94
		1	1	18.00	18.85
		1	104	18.28	19.13
		106	0	18.04	18.89
		1	105	18.31	19.16
		1	0	18.02	18.87
836	20	53	26	17.99	18.84
		1	1	18.09	18.94
		1	104	17.79	18.64
		106	0	17.95	18.80
		1	105	17.75	18.60
		1	0	18.04	18.89

6.2. Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

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

LTE Band 5 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.00	-64.07	1.70	8.70	Horizontal	-59.22	-13.00	46.22	0
3	2509.50	-66.75	2.30	12.00	Horizontal	-59.20	-13.00	46.20	20
4	3346.00	-66.88	2.70	12.70	Horizontal	-59.03	-13.00	46.03	201
5	4182.50	-64.38	3.00	12.50	Horizontal	-57.03	-13.00	44.03	210
6	5019.00	-62.21	3.40	12.50	Horizontal	-55.26	-13.00	42.26	154
7	5855.50	-60.64	3.40	12.80	Horizontal	-53.39	-13.00	40.39	147
8	6692.00	-57.14	4.10	11.50	Horizontal	-51.89	-13.00	38.89	222
9	7528.50	-54.04	4.20	12.20	Horizontal	-48.19	-13.00	35.19	147
10	8365.00	-53.38	4.30	12.50	Horizontal	-47.33	-13.00	34.33	90
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.									

LTE Band 5 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	1668.60	-64.75	1.70	8.70	Horizontal	-59.90	-13.00	46.90	50
3	2503.30	-67.40	2.30	12.00	Horizontal	-59.85	-13.00	46.85	60
4	3337.50	-65.71	2.70	12.70	Horizontal	-57.86	-13.00	44.86	11
5	4171.88	-65.65	3.00	12.50	Horizontal	-58.30	-13.00	45.30	198
6	5006.25	-63.57	3.40	12.50	Horizontal	-56.62	-13.00	43.62	214
7	5840.63	-61.51	3.40	12.80	Horizontal	-54.26	-13.00	41.26	15
8	6675.00	-57.67	4.10	11.50	Horizontal	-52.42	-13.00	39.42	311
9	7509.38	-53.87	4.20	12.20	Horizontal	-48.02	-13.00	35.02	24
10	8343.75	-53.88	4.30	12.50	Horizontal	-47.83	-13.00	34.83	140
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.									

LTE Band 5 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	1664.40	-63.59	1.70	8.70	Horizontal	-58.74	-13.00	45.74	110
3	2496.60	-66.71	2.30	12.00	Horizontal	-59.16	-13.00	46.16	0
4	3326.00	-66.35	2.70	12.70	Horizontal	-58.50	-13.00	45.50	45
5	4157.50	-64.23	3.00	12.50	Horizontal	-56.88	-13.00	43.88	301
6	4989.00	-63.48	3.40	12.50	Horizontal	-56.53	-13.00	43.53	126
7	5820.50	-60.58	3.40	12.80	Horizontal	-53.33	-13.00	40.33	178
8	6652.00	-56.60	4.10	11.50	Horizontal	-51.35	-13.00	38.35	147
9	7483.50	-53.59	4.20	12.20	Horizontal	-47.74	-13.00	34.74	220
10	8315.00	-53.64	4.30	12.50	Horizontal	-47.59	-13.00	34.59	18
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.									

LTE Band 26 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.00	-64.52	1.70	8.70	Horizontal	-59.67	-13.00	46.67	0
3	2509.50	-66.61	2.30	12.00	Horizontal	-59.06	-13.00	46.06	120
4	3346.00	-64.49	2.70	12.70	Horizontal	-56.64	-13.00	43.64	315
5	4182.50	-62.49	3.00	12.50	Horizontal	-55.14	-13.00	42.14	0
6	5019.00	-62.66	3.40	12.50	Horizontal	-55.71	-13.00	42.71	230
7	5855.50	-60.30	3.40	12.80	Horizontal	-53.05	-13.00	40.05	60
8	6692.00	-58.89	4.10	11.50	Horizontal	-53.64	-13.00	40.64	50
9	7528.50	-53.02	4.20	12.20	Horizontal	-47.17	-13.00	34.17	0
10	8365.00	-54.58	4.30	12.50	Horizontal	-48.53	-13.00	35.53	20
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.									

LTE Band 26 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	1668.00	-63.84	1.70	8.70	Horizontal	-58.99	-13.00	45.99	150
3	2502.00	-63.12	2.30	12.00	Horizontal	-55.57	-13.00	42.57	80
4	3336.00	-64.08	2.70	12.70	Horizontal	-56.23	-13.00	43.23	315
5	4170.00	-62.07	3.00	12.50	Horizontal	-54.72	-13.00	41.72	60
6	5004.00	-58.90	3.40	12.50	Horizontal	-51.95	-13.00	38.95	20
7	5838.00	-60.13	3.40	12.80	Horizontal	-52.88	-13.00	39.88	120
8	6672.00	-55.70	4.10	11.50	Horizontal	-50.45	-13.00	37.45	180
9	7506.00	-52.74	4.20	12.20	Horizontal	-46.89	-13.00	33.89	0
10	8340.00	-53.22	4.30	12.50	Horizontal	-47.17	-13.00	34.17	20
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.									

LTE Band 26 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	1658.00	-63.90	1.70	8.70	Horizontal	-59.05	-13.00	46.05	50
3	2487.00	-67.35	2.30	12.00	Horizontal	-59.80	-13.00	46.80	20
4	3316.00	-63.46	2.70	12.70	Horizontal	-55.61	-13.00	42.61	20
5	4145.00	-63.92	3.00	12.50	Horizontal	-56.57	-13.00	43.57	60
6	4974.00	-58.92	3.40	12.50	Horizontal	-51.97	-13.00	38.97	20
7	5803.00	-61.61	3.40	12.80	Horizontal	-54.36	-13.00	41.36	30
8	6632.00	-57.86	4.10	11.50	Horizontal	-52.61	-13.00	39.61	10
9	7461.00	-52.49	4.20	12.20	Horizontal	-46.64	-13.00	33.64	0
10	8290.00	-53.98	4.30	12.50	Horizontal	-47.93	-13.00	34.93	0
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 n5 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	1668.73	-67.51	1.70	8.70	Vertical	-62.66	-13.00	49.66	217
3	2467.60	-60.05	2.30	12.00	Vertical	-52.50	-13.00	39.50	90
4	3346.00	-67.45	2.70	12.70	Vertical	-59.60	-13.00	46.60	7
5	4182.50	-63.48	3.00	12.50	Vertical	-56.13	-13.00	43.13	48
6	5019.00	-62.99	3.40	12.50	Vertical	-56.04	-13.00	43.04	147
7	5855.50	-60.09	3.40	12.80	Vertical	-52.84	-13.00	39.84	186
8	6692.00	-57.96	4.10	11.50	Vertical	-52.71	-13.00	39.71	260
9	7528.50	-54.93	4.20	12.20	Vertical	-49.08	-13.00	36.08	27
10	8365.00	-53.50	4.30	12.50	Vertical	-47.45	-13.00	34.45	188
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.									

NR n5 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	1668.60	-71.03	1.70	8.70	Vertical	-66.18	-13.00	53.18	47
3	2503.30	-67.58	2.30	12.00	Vertical	-60.03	-13.00	47.03	214
4	3337.50	-65.95	2.70	12.70	Vertical	-58.10	-13.00	45.10	0
5	4171.88	-64.60	3.00	12.50	Vertical	-57.25	-13.00	44.25	17
6	5006.25	-61.20	3.40	12.50	Vertical	-54.25	-13.00	41.25	90
7	5840.63	-61.86	3.40	12.80	Vertical	-54.61	-13.00	41.61	196
8	6675.00	-58.57	4.10	11.50	Vertical	-53.32	-13.00	40.32	311
9	7509.38	-54.36	4.20	12.20	Vertical	-48.51	-13.00	35.51	11
10	8343.75	-54.84	4.30	12.50	Vertical	-48.79	-13.00	35.79	295
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.									

NR n5 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1653.93	-67.16	1.70	8.70	Vertical	-62.31	-13.00	49.31	25
3	2472.07	-59.44	2.30	12.00	Vertical	-51.89	-13.00	38.89	46
4	3326.00	-67.74	2.70	12.70	Vertical	-59.89	-13.00	46.89	117
5	4157.50	-64.65	3.00	12.50	Vertical	-57.30	-13.00	44.30	9
6	4989.00	-62.97	3.40	12.50	Vertical	-56.02	-13.00	43.02	98
7	5820.50	-62.07	3.40	12.80	Vertical	-54.82	-13.00	41.82	270
8	6652.00	-58.70	4.10	11.50	Vertical	-53.45	-13.00	40.45	301
9	7483.50	-53.13	4.20	12.20	Vertical	-47.28	-13.00	34.28	47
10	8315.00	-54.69	4.30	12.50	Vertical	-48.64	-13.00	35.64	180
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.									

NR n26 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	1673.00	-69.33	1.70	8.70	Vertical	-64.48	-13.00	51.48	17
3	2509.50	-66.50	2.30	12.00	Vertical	-58.95	-13.00	45.95	45
4	3346.00	-67.28	2.70	12.70	Vertical	-59.43	-13.00	46.43	11
5	4182.50	-64.49	3.00	12.50	Vertical	-57.14	-13.00	44.14	233
6	5019.00	-62.35	3.40	12.50	Vertical	-55.40	-13.00	42.40	27
7	5855.50	-61.10	3.40	12.80	Vertical	-53.85	-13.00	40.85	9
8	6692.00	-57.76	4.10	11.50	Vertical	-52.51	-13.00	39.51	38
9	7528.50	-54.25	4.20	12.20	Vertical	-48.40	-13.00	35.40	287
10	8365.00	-53.84	4.30	12.50	Vertical	-47.79	-13.00	34.79	196
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.									

NR n26 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	1668.00	-68.32	1.70	8.70	Vertical	-63.47	-13.00	50.47	315
3	2502.00	-67.66	2.30	12.00	Vertical	-60.11	-13.00	47.11	0
4	3326.00	-67.40	2.70	12.70	Vertical	-59.55	-13.00	46.55	35
5	4157.50	-64.80	3.00	12.50	Vertical	-57.45	-13.00	44.45	278
6	4989.00	-63.10	3.40	12.50	Vertical	-56.15	-13.00	43.15	16
7	5820.00	-61.14	3.40	12.80	Vertical	-53.89	-13.00	40.89	38
8	6652.00	-58.42	4.10	11.50	Vertical	-53.17	-13.00	40.17	247
9	7483.50	-53.74	4.20	12.20	Vertical	-47.89	-13.00	34.89	163
10	8315.00	-53.47	4.30	12.50	Vertical	-47.42	-13.00	34.42	287
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.									

NR n26 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1658.00	-68.92	1.70	8.70	Vertical	-64.07	-13.00	51.07	180
3	2487.00	-67.83	2.30	12.00	Vertical	-60.28	-13.00	47.28	45
4	3306.00	-66.70	2.70	12.70	Vertical	-58.85	-13.00	45.85	179
5	4132.50	-64.50	3.00	12.50	Vertical	-57.15	-13.00	44.15	254
6	4959.00	-63.38	3.40	12.50	Vertical	-56.43	-13.00	43.43	185
7	5785.50	-61.10	3.40	12.80	Vertical	-53.85	-13.00	40.85	32
8	6612.00	-57.59	4.10	11.50	Vertical	-52.34	-13.00	39.34	47
9	7438.50	-53.73	4.20	12.20	Vertical	-47.88	-13.00	34.88	22
10	8265.00	-53.82	4.30	12.50	Vertical	-47.77	-13.00	34.77	14
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	2023-12-05	2024-12-04
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 is submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos is submitted separately.

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