

RF TEST REPORT

Applicant PHILLIPS CONNECT TECHNOLOGIES LLC
FCC ID 2ASKH-MB01
Product SolarNet
Brand Phillips Connect
Model 77-8000; 77-8001; 77-8002; 77-8003
Report No. EFTA25022177-IE-02-R1V1
Issue Date July 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 22H / FCC CFR 47 Part 24E / FCC CFR47 Part 27C**. 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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TABLE OF CONTENT

1	Test Laboratory	5
1.1	Notes of the Test Report	5
1.2.	Test facility	5
1.3	Testing Location	5
2	General Description of Equipment under Test	6
2.1	Applicant and Manufacturer Information	6
2.2	General information	6
3	Applied Standards	8
4	Test Configuration	9
5	Test Case	10
5.1	RF Power Output and Effective Isotropic Radiated Power	10
5.2	Radiated Spurious Emission	11
6	Test Results	14
6.1	RF Power Output and Effective (Isotropic) Radiated Power	14
6.2	Radiated Spurious Emission	23
7	Main Test Instruments	31
ANNEX A: The EUT Appearance		32
ANNEX B: Test Setup Photos		33

Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	July 4, 2025
Rev.1	Update data and description.	July 31, 2025
Note: This revised report (Report No.: EFTA25022177-IE-02-R1V1) supersedes and replaces the previously issued report (Report No.: EFTA25022177-IE-02-R1). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Test Case	Clause in FCC rules	Limits	Verdict
WCDMA Band 5			
RF Power Output and Effective Radiated Power	2.1046 22.913(a)(5)	$\leq 3 \text{ W (34.77 dBm)}$	PASS
Radiated Spurious Emission	2.1053 22.917 (a)	$\leq -13 \text{ dBm}$	PASS
WCDMA Band 2; LTE Band 2			
RF Power Output and Effective Isotropic Radiated Power	2.1046 24.232(c)	$\leq 2 \text{ W (33 dBm)}$	PASS
Radiated Spurious Emission	2.1053 24.238(a)	$\leq -13 \text{ dBm}$	PASS
WCDMA Band 4; LTE Band 4			
RF Power Output and Effective Isotropic Radiated Power	2.1046 27.50(d)(4)	$\leq 1 \text{ W (30 dBm)}$	PASS
Radiated Spurious Emission	2.1053 27.53(h)	$\leq -13 \text{ dBm}$	PASS
LTE Band 12			
RF Power Output and Effective Radiated Power	2.1046 27.50(c)(10)	$\leq 3 \text{ W (34.77 dBm)}$	PASS
Radiated Spurious Emission	2.1053 27.53(g)	$\leq -13 \text{ dBm}$	PASS
Date of Testing: March 3, 2025 ~ March 13, 2025 and July 30, 2025			
Date of Sample Received: February 24, 2025			
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 77-8000; 77-8001; 77-8002; 77-8003 in this report, and because of the change of antenna gain, ERP/EIRP need to be re-evaluated. Other test items refer to the Module report (Report No.: R1805A0226-R1V3, R1805A0226-R2V3, R1805A0226-R3V2, FCC ID: XMR201606EC21A, Grant date: 06/15/2018).

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.
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	PHILLIPS CONNECT TECHNOLOGIES LLC
Applicant address	5231 California Avenue, Suite 110, Irvine, CA 92617
Manufacturer	PHILLIPS CONNECT TECHNOLOGIES LLC
Manufacturer address	5231 California Avenue, Suite 110, Irvine, CA 92617

2.2 General information

EUT Description				
Model	77-8000; 77-8001; 77-8002; 77-8003			
Lab internal SN	EFTA25022177-IE-01/S01			
HW Version	Megatron Board			
SW Version	Trailer 24A			
Power Supply	Battery / External power supply			
Antenna Type	Internal Antenna			
Rated Power Supply Voltage	12 V			
Operating Voltage	Minimum: 8V Maximum: 32V			
Operating Temperature	Lowest: -20°C Highest: +75°C			
Testing Temperature	Lowest: -30°C Highest: +50°C			
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)	Gain (dBi)
	WCDMA Band II	1850 ~ 1910	1930 ~ 1990	4.72
	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155	4.00
	WCDMA Band V	824 ~ 849	869 ~ 894	-3.00
	LTE Band 2	1850 ~ 1910	1930 ~ 1990	4.72
	LTE Band 4	1710 ~ 1755	2110 ~ 2155	4.00
	LTE Band 12	699 ~ 716	729 ~ 746	0.19
Test Modulation	(WCDMA) BPSK, QPSK; (LTE) QPSK, 16QAM;			
HSDPA UE Category	24			
HSUPA UE Category	6			
DC-HSDPA UE Category	24			
HSPA+ UE Category	6			
LTE Category	1			
Maximum E.I.R.P./ E.R.P.	WCDMA Band II	28.08 dBm		
	WCDMA Band IV	27.27 dBm		
	WCDMA Band V	18.22 dBm		

RF Test Report		Report No.: ET-1A200221774E-02-RFV1
	LTE Band 2	28.09 dBm
	LTE Band 4	27.22 dBm
	LTE Band 12	21.36 dBm
EUT Accessory		
Battery	Manufacturer: Huizhou Julang (EVE Cell) Model: JL003	
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.		

Model	Separately	The others
77-8000	Base Model	All the same
77-8001	Model with TPMS	
77-8002	Model with Camera	
77-8003	Model with TPMS & Camera	
This report test mode 77-8001 Radiated Spurious Emission, other mode (Mode:77-8000; 77-8002; 77-8003) test worst case, and recorded in the 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 2 (2024)

FCC CFR 47 Part 22H (2024)

FCC CFR 47 Part 24E (2024)

FCC CFR 47 Part 27C (2024)

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 (Y axis, horizontal 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 WCDMA/LTE is set based on the maximum RF Output Power.

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

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

Test items	Modes/Modulation
	WCDMA Band 2/4/5
Radiated Spurious Emission	RMC

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	1	50%	100%	L	M	H
Radiated Spurious Emission	LTE 2	O	-	O	-	-	O	O	O	-	-	O	O	O	O
	LTE 4	O	-	O	-	-	O	O	O	-	-	O	O	O	O
	LTE 12	O	-	O	O	-	-	O	O	-	-	O	O	O	O

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

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

Methods of Measurement

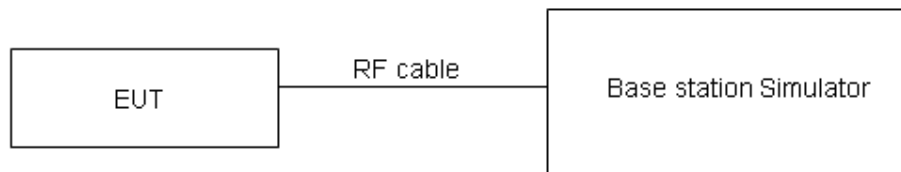
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

$EIRP \text{ (dBm)} = \text{Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$EIRP \text{ (dBm)} = ERP \text{ (dBm)} + 2.15 \text{ (dB.)}$

Test Setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4 \text{ dB}$ for RF power output, $k = 2$, $U= 1.19 \text{ dB}$ for ERP/EIRP.

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=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, 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:

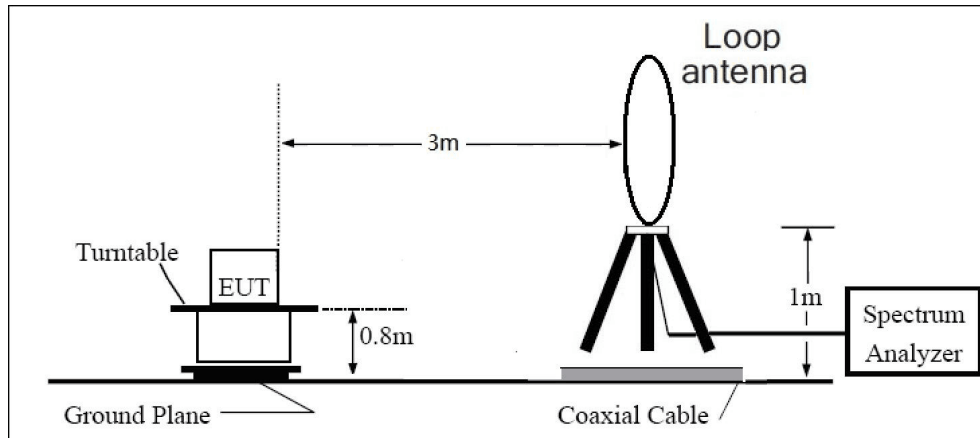
$$\text{Power(EIRP)} = \text{PMea} - \text{PAG} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:

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

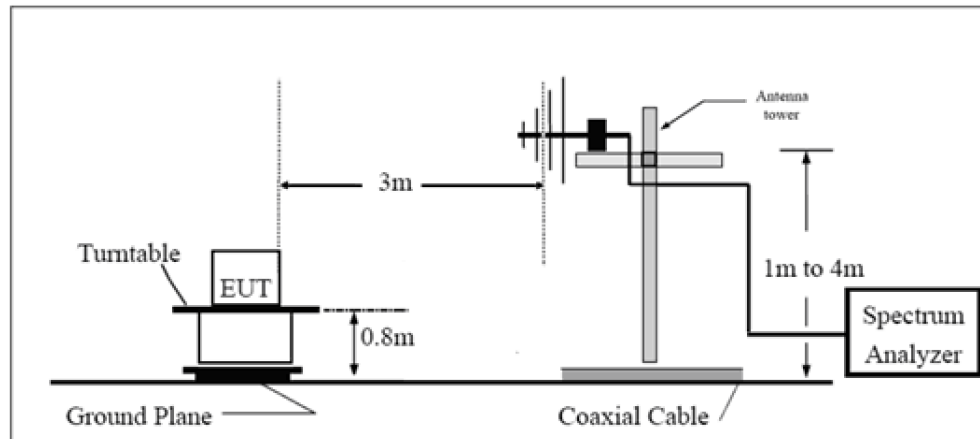
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

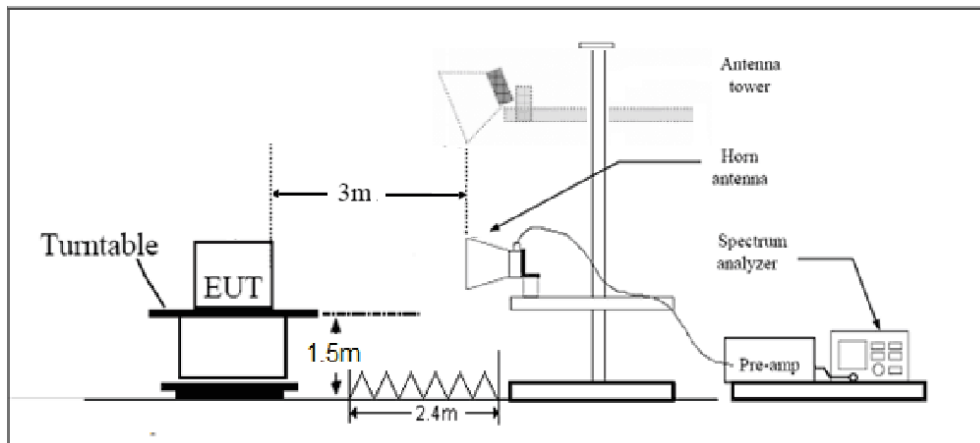
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Measurement Uncertainty

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

Test Results

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

6 Test Results

6.1 RF Power Output and Effective (Isotropic) Radiated Power

WCDMA Band II		Maximum Output Power (dBm)			EIRP (dBm)		
		Channel 9262	Channel 9400	Channel 9538	Channel 9262	Channel 9400	Channel 9538
		1852.4 (MHz)	1880 (MHz)	1907.6 (MHz)	1852.4 (MHz)	1880 (MHz)	1907.6 (MHz)
RMC		23.36	23.33	23.23	28.08	28.05	27.95
HSDPA	Sub - Test 1	22.46	22.53	22.34	27.18	27.25	27.06
	Sub - Test 2	22.40	22.42	22.24	27.12	27.14	26.96
	Sub - Test 3	21.89	21.93	21.76	26.61	26.65	26.48
	Sub - Test 4	21.85	21.89	21.73	26.57	26.61	26.45
HSUPA	Sub - Test 1	22.45	22.46	22.25	27.17	27.18	26.97
	Sub - Test 2	21.83	21.85	21.69	26.55	26.57	26.41
	Sub - Test 3	22.39	22.43	22.24	27.11	27.15	26.96
	Sub - Test 4	22.32	22.33	22.16	27.04	27.05	26.88
	Sub - Test 5	22.46	22.49	22.56	27.18	27.21	27.28
DC-HSDPA	Sub - Test 1	23.20	23.19	23.07	27.92	27.91	27.79
	Sub - Test 2	23.19	23.18	23.06	27.91	27.90	27.78
	Sub - Test 3	22.77	22.67	22.57	27.49	27.39	27.29
	Sub - Test 4	22.76	22.66	22.56	27.48	27.38	27.28

WCDMA Band IV		Maximum Output Power (dBm)			EIRP (dBm)		
		Channel 1312	Channel 1413	Channel 1513	Channel 1312	Channel 1413	Channel 1513
		1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)	1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)
RMC		23.16	23.22	23.27	27.16	27.22	27.27
HSDPA	Sub - Test 1	22.20	22.25	22.23	26.20	26.25	26.23
	Sub - Test 2	22.09	22.25	22.29	26.09	26.25	26.29
	Sub - Test 3	21.56	21.72	21.63	25.56	25.72	25.63
	Sub - Test 4	21.56	21.69	21.73	25.56	25.69	25.73
HSUPA	Sub - Test 1	22.16	22.17	22.13	26.16	26.17	26.13
	Sub - Test 2	21.56	21.69	21.70	25.56	25.69	25.70
	Sub - Test 3	22.02	22.11	22.16	26.02	26.11	26.16
	Sub - Test 4	22.12	22.30	22.22	26.12	26.30	26.22
	Sub - Test 5	22.11	22.23	22.18	26.11	26.23	26.18
DC-HSDPA	Sub - Test 1	23.09	23.11	23.16	27.09	27.11	27.16
	Sub - Test 2	23.08	23.10	23.15	27.08	27.10	27.15
	Sub - Test 3	22.57	22.59	22.64	26.57	26.59	26.64
	Sub - Test 4	22.56	22.68	22.62	26.56	26.68	26.62

WCDMA Band V		Maximum Output Power (dBm)			ERP (dBm)		
		Channel 4132	Channel 4183	Channel 4233	Channel 4132	Channel 4183	Channel 4233
		826.4 (MHz)	836.6 (MHz)	846.6 (MHz)	826.4 (MHz)	836.6 (MHz)	846.6 (MHz)
RMC		23.35	23.37	23.35	18.20	18.22	18.20
HSDPA	Sub - Test 1	22.38	22.37	22.34	17.23	17.22	17.19
	Sub - Test 2	22.43	22.48	22.41	17.28	17.33	17.26
	Sub - Test 3	21.86	21.81	21.85	16.71	16.66	16.70
	Sub - Test 4	21.94	21.97	21.94	16.79	16.82	16.79
HSUPA	Sub - Test 1	22.31	22.26	22.40	17.16	17.11	17.25
	Sub - Test 2	21.88	21.86	21.94	16.73	16.71	16.79
	Sub - Test 3	22.32	22.30	22.42	17.17	17.15	17.27
	Sub - Test 4	22.39	22.49	22.48	17.24	17.34	17.33
	Sub - Test 5	22.36	22.39	22.34	17.21	17.24	17.19
DC-HSDPA	Sub - Test 1	23.22	23.24	23.22	18.07	18.09	18.07
	Sub - Test 2	23.20	23.23	23.21	18.05	18.08	18.06
	Sub - Test 3	22.69	22.72	22.70	17.54	17.57	17.55
	Sub - Test 4	22.68	22.71	22.69	17.53	17.56	17.54

LTE Band 2				Conducted Power(dBm)			EIRP(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				18607/ 1850.7	18900/ 1880	19193/ 1909.3	18607/ 1850.7	18900 /1880	19193/ 1909.3
1.4MHz	QPSK	1	0	23.07	23.10	22.80	27.79	27.82	27.52
		1	2	23.33	22.92	23.11	28.05	27.64	27.83
		1	5	23.20	22.73	22.84	27.92	27.45	27.56
		3	0	22.81	22.84	22.64	27.53	27.56	27.36
		3	2	22.80	22.77	22.68	27.52	27.49	27.40
		3	3	22.90	22.69	22.64	27.62	27.41	27.36
		6	0	21.88	21.90	21.77	26.60	26.62	26.49
	16QAM	1	0	22.07	22.49	22.12	26.79	27.21	26.84
		1	2	22.14	22.32	22.59	26.86	27.04	27.31
		1	5	22.04	22.15	21.93	26.76	26.87	26.65
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				18615/ 1851.5	18900/ 1880	19185/ 1908.5	18615/ 1851.5	18900 /1880	19185/ 1908.5
3MHz	QPSK	1	0	23.09	23.14	22.83	27.81	27.86	27.55
		1	7	23.36	22.97	23.15	28.08	27.69	27.87
		1	14	23.23	22.78	22.88	27.95	27.50	27.60
		8	0	21.91	21.96	21.77	26.63	26.68	26.49
		8	4	21.92	21.87	21.80	26.64	26.59	26.52
		8	7	22.00	21.80	21.74	26.72	26.52	26.46
		15	0	21.91	21.94	21.80	26.63	26.66	26.52
	16QAM	1	0	22.10	22.51	22.15	26.82	27.23	26.87
		1	7	22.17	22.37	22.63	26.89	27.09	27.35
		1	14	22.06	22.19	21.96	26.78	26.91	26.68
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				18625/ 1852.5	18900/ 1880	19175/ 1907.5	18625/ 1852.5	18900 /1880	19175/ 1907.5
5MHz	QPSK	1	0	23.06	23.12	22.79	27.78	27.84	27.51
		1	13	23.34	22.93	23.12	28.06	27.65	27.84
		1	24	23.20	22.73	22.84	27.92	27.45	27.56
		12	0	21.88	21.91	21.73	26.60	26.63	26.45
		12	6	21.90	21.83	21.75	26.62	26.55	26.47
		12	13	21.98	21.78	21.70	26.70	26.50	26.42
		25	0	21.89	21.93	21.78	26.61	26.65	26.50
	16QAM	1	0	22.07	22.47	22.12	26.79	27.19	26.84
		1	13	22.14	22.35	22.60	26.86	27.07	27.32
		1	24	22.03	22.17	21.92	26.75	26.89	26.64

Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				18650/ 1855	18900/ 1880	19150/ 1905	18650/ 1855	18900/ 1880	19150/ 1905
10MHz	QPSK	1	0	23.08	23.13	22.82	27.80	27.85	27.54
		1	25	23.37	22.98	23.16	28.09	27.70	27.88
		1	49	23.22	22.77	22.87	27.94	27.49	27.59
		25	0	21.91	21.96	21.77	26.63	26.68	26.49
		25	13	21.93	21.88	21.79	26.65	26.60	26.51
		25	25	22.00	21.82	21.75	26.72	26.54	26.47
		50	0	21.97	21.95	21.82	26.69	26.67	26.54
	16QAM	1	0	22.09	22.50	22.14	26.81	27.22	26.86
		1	25	22.17	22.39	22.63	26.89	27.11	27.35
		1	49	22.06	22.19	21.95	26.78	26.91	26.67
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				18675/ 1857.5	18900/ 1880	19125/ 1902.5	18675/ 1857.5	18900/ 1880	19125/ 1902.5
15MHz	QPSK	1	0	23.07	23.09	22.80	27.79	27.81	27.52
		1	38	23.35	22.97	23.13	28.07	27.69	27.85
		1	74	23.19	22.72	22.83	27.91	27.44	27.55
		36	0	21.89	21.92	21.74	26.61	26.64	26.46
		36	18	21.90	21.83	21.75	26.62	26.55	26.47
		36	39	21.97	21.79	21.71	26.69	26.51	26.43
		75	0	21.95	21.91	21.77	26.67	26.63	26.49
	16QAM	1	0	22.04	22.48	22.12	26.76	27.20	26.84
		1	38	22.15	22.36	22.61	26.87	27.08	27.33
		1	74	22.03	22.15	21.92	26.75	26.87	26.64
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				18700/ 1860	18900/ 1880	19100/ 1900	18700/ 1860	18900/ 1880	19100/ 1900
20MHz	QPSK	1	0	23.04	23.05	22.77	27.76	27.77	27.49
		1	50	23.34	22.93	23.11	28.06	27.65	27.83
		1	99	23.17	22.71	22.80	27.89	27.43	27.52
		50	0	21.86	21.87	21.70	26.58	26.59	26.42
		50	25	21.88	21.79	21.72	26.60	26.51	26.44
		50	50	21.94	21.74	21.67	26.66	26.46	26.39
		100	0	21.92	21.86	21.73	26.64	26.58	26.45
	16QAM	1	0	22.02	22.44	22.07	26.74	27.16	26.79
		1	50	22.11	22.34	22.57	26.83	27.06	27.29
		1	99	22.01	22.12	21.90	26.73	26.84	26.62

LTE Band 4				AV Conducted Power(dBm)			EIRP(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				19957/1710.7	20175/1732.5	20393/1754.3	19957/1710.7	20175/1732.5	20393/1754.3
1.4MHz	QPSK	1	0	22.76	22.81	22.87	26.76	26.81	26.87
		1	2	22.92	22.94	22.99	26.92	26.94	26.99
		1	5	22.70	22.97	22.83	26.70	26.97	26.83
		3	0	22.54	22.79	22.71	26.54	26.79	26.71
		3	2	22.63	22.83	22.54	26.63	26.83	26.54
		3	3	22.55	22.73	22.69	26.55	26.73	26.69
		6	0	21.69	21.97	21.76	25.69	25.97	25.76
	16QAM	1	0	21.94	22.18	22.13	25.94	26.18	26.13
		1	2	21.93	22.19	22.21	25.93	26.19	26.21
		1	5	21.82	21.92	22.97	25.82	25.92	26.97
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				19965/1711.5	20175/1732.5	20385/1753.5	19965/1711.5	20175/1732.5	20385/1753.5
3MHz	QPSK	1	0	23.03	23.14	23.16	27.03	27.14	27.16
		1	7	23.17	23.05	22.98	27.17	27.05	26.98
		1	14	23.22	23.03	23.09	27.22	27.03	27.09
		8	0	21.86	21.87	21.99	25.86	25.87	25.99
		8	4	21.88	21.89	21.95	25.88	25.89	25.95
		8	7	22.04	21.90	21.72	26.04	25.90	25.72
		15	0	21.83	21.75	21.93	25.83	25.75	25.93
	16QAM	1	0	21.70	21.83	21.91	25.70	25.83	25.91
		1	7	21.83	21.78	21.90	25.83	25.78	25.90
		1	14	21.96	21.85	21.96	25.96	25.85	25.96
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				19975/1712.5	20175/1732.5	20375/1752.5	19975/1712.5	20175/1732.5	20375/1752.5
5MHz	QPSK	1	0	23.00	23.12	23.12	27.00	27.12	27.12
		1	13	23.15	23.01	22.95	27.15	27.01	26.95
		1	24	23.19	22.98	23.05	27.19	26.98	27.05
		12	0	21.83	21.82	21.95	25.83	25.82	25.95
		12	6	21.86	21.85	21.90	25.86	25.85	25.90
		12	13	22.02	21.88	21.68	26.02	25.88	25.68
		25	0	21.81	21.74	21.91	25.81	25.74	25.91
	16QAM	1	0	21.67	21.79	21.88	25.67	25.79	25.88
		1	13	21.80	21.76	21.87	25.80	25.76	25.87
		1	24	21.93	21.83	21.92	25.93	25.83	25.92
Bandwidth	Modulation	RB	RB	Channel/Frequency (MHz)			Channel/Frequency (MHz)		

		size	offset	20000/ 1715	20175/ 1732.5	20350/ 1750	20000/ 1715	20175/ 1732.5	20350/ 1750
10MHz	QPSK	1	0	23.02	23.13	23.15	27.02	27.13	27.15
		1	25	23.18	23.06	22.99	27.18	27.06	26.99
		1	49	23.21	23.02	23.08	27.21	27.02	27.08
		25	0	21.86	21.87	21.99	25.86	25.87	25.99
		25	13	21.89	21.90	21.94	25.89	25.90	25.94
		25	25	22.04	21.92	21.73	26.04	25.92	25.73
		50	0	21.89	21.76	21.95	25.89	25.76	25.95
	16QAM	1	0	21.69	21.82	21.90	25.69	25.82	25.90
		1	25	21.83	21.80	21.90	25.83	25.80	25.90
		1	49	21.96	21.85	21.95	25.96	25.85	25.95
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				20025/ 1717.5	20175/ 1732.5	20325/ 1747.5	20025/ 1717.5	20175/ 1732.5	20325/ 1747.5
15MHz	QPSK	1	0	23.01	23.09	23.13	27.01	27.09	27.13
		1	38	23.16	23.05	22.96	27.16	27.05	26.96
		1	74	23.18	22.97	23.04	27.18	26.97	27.04
		36	0	21.84	21.83	21.96	25.84	25.83	25.96
		36	18	21.86	21.85	21.90	25.86	25.85	25.90
		36	39	22.01	21.89	21.69	26.01	25.89	25.69
		75	0	21.87	21.72	21.90	25.87	25.72	25.90
	16QAM	1	0	21.64	21.80	21.88	25.64	25.80	25.88
		1	38	21.81	21.77	21.88	25.81	25.77	25.88
		1	74	21.93	21.81	21.92	25.93	25.81	25.92
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				20050/ 1720	20175/ 1732.5	20300/ 1745	20050/ 1720	20175/ 1732.5	20300/ 1745
20MHz	QPSK	1	0	22.98	23.05	23.10	26.98	27.05	27.10
		1	50	23.15	23.01	22.94	27.15	27.01	26.94
		1	99	23.16	22.96	23.01	27.16	26.96	27.01
		50	0	21.81	21.78	21.92	25.81	25.78	25.92
		50	25	21.84	21.81	21.87	25.84	25.81	25.87
		50	50	21.98	21.84	21.65	25.98	25.84	25.65
		100	0	21.84	21.67	21.86	25.84	25.67	25.86
	16QAM	1	0	21.62	21.76	21.83	25.62	25.76	25.83
		1	50	21.77	21.75	21.84	25.77	25.75	25.84
		1	99	21.91	21.78	21.90	25.91	25.78	25.90

LTE Band 12				AV Conducted Power(dBm)			ERP (dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				23017/ 699.7	23095/ 707.5	23173/ 715.3	23017/ 699.7	23095/ 707.5	23173/ 715.3
1.4MHz	QPSK	1	0	23.13	23.14	23.02	21.17	21.18	21.06
		1	2	23.11	23.27	23.04	21.15	21.31	21.08
		1	5	23.07	23.30	23.06	21.11	21.34	21.10
		3	0	22.87	22.91	22.85	20.91	20.95	20.89
		3	2	22.93	23.03	22.91	20.97	21.07	20.95
		3	3	22.82	23.08	22.84	20.86	21.12	20.88
		6	0	22.20	22.41	22.24	20.24	20.45	20.28
	16QAM	1	0	22.18	22.78	22.16	20.22	20.82	20.20
		1	2	22.70	22.89	22.01	20.74	20.93	20.05
		1	5	22.52	22.66	22.44	20.56	20.70	20.48
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				23025/ 700.5	23095/ 707.5	23165/ 714.5	23025/ 700.5	23095/ 707.5	23165/ 714.5
3MHz	QPSK	1	0	22.99	22.99	22.92	21.03	21.03	20.96
		1	7	23.13	23.32	22.90	21.17	21.36	20.94
		1	14	22.90	22.88	22.90	20.94	20.92	20.94
		8	0	22.30	22.38	22.46	20.34	20.42	20.50
		8	4	22.39	22.26	22.43	20.43	20.30	20.47
		8	7	22.49	22.36	22.39	20.53	20.40	20.43
		15	0	22.29	22.38	22.40	20.33	20.42	20.44
	16QAM	1	0	22.37	22.76	22.49	20.41	20.80	20.53
		1	7	22.61	23.07	22.36	20.65	21.11	20.40
		1	14	22.45	22.72	22.03	20.49	20.76	20.07
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				23035/ 701.5	23095/ 707.5	23155/ 713.5	23035/ 701.5	23095/ 707.5	23155/ 713.5
5MHz	QPSK	1	0	22.98	22.95	22.90	21.02	20.99	20.94
		1	13	23.11	23.31	22.87	21.15	21.35	20.91
		1	24	22.87	22.83	22.86	20.91	20.87	20.90
		12	0	22.28	22.34	22.43	20.32	20.38	20.47
		12	6	22.36	22.21	22.39	20.40	20.25	20.43
		12	13	22.46	22.33	22.35	20.50	20.37	20.39
		25	0	22.27	22.34	22.35	20.31	20.38	20.39
	16QAM	1	0	22.32	22.74	22.47	20.36	20.78	20.51
		1	13	22.59	23.04	22.34	20.63	21.08	20.38
		1	24	22.42	22.68	22.00	20.46	20.72	20.04
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)		
				23060/	23095/	23130/	23060/	23095/	23130/

				704	707.5	711	704	707.5	711
10MHz	QPSK	1	0	22.95	22.91	22.87	20.99	20.95	20.91
		1	25	23.10	23.27	22.85	21.14	21.31	20.89
		1	49	22.85	22.82	22.83	20.89	20.86	20.87
		25	0	22.25	22.29	22.39	20.29	20.33	20.43
		25	13	22.34	22.17	22.36	20.38	20.21	20.40
		25	25	22.43	22.28	22.31	20.47	20.32	20.35
		50	0	22.24	22.29	22.31	20.28	20.33	20.35
	16QAM	1	0	22.30	22.70	22.42	20.34	20.74	20.46
		1	25	22.55	23.02	22.30	20.59	21.06	20.34
		1	49	22.40	22.65	21.98	20.44	20.69	20.02

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.

77-8001:

WCDMA Band II CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-63.66	2.60	12.50	Horizontal	-53.76	-13.00	40.76	11
3	5640.00	-45.52	3.30	12.50	Horizontal	-36.32	-13.00	23.32	54
4	7520.00	-52.36	4.20	12.20	Horizontal	-44.36	-13.00	31.36	58
5	9400.00	-53.77	4.30	11.10	Horizontal	-46.97	-13.00	33.97	67
6	11280.00	-50.33	5.90	11.90	Horizontal	-44.33	-13.00	31.33	45
7	13160.00	-51.60	5.70	14.00	Horizontal	-43.30	-13.00	30.30	76
8	15040.00	-51.83	5.80	13.10	Horizontal	-44.53	-13.00	31.53	45
9	16920.00	-51.42	6.10	14.60	Horizontal	-42.92	-13.00	29.92	76
10	18800.00	/	/	/	/	/	/	/	/

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.

WCDMA Band IV CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.20	-58.32	2.70	12.70	Horizontal	-48.32	-13.00	35.32	49
3	5197.80	-57.66	3.20	12.50	Horizontal	-48.36	-13.00	35.36	32
4	6930.40	-65.75	4.20	11.80	Horizontal	-58.15	-13.00	45.15	23
5	8663.00	-59.23	4.40	12.50	Horizontal	-51.13	-13.00	38.13	32
6	10395.60	-60.23	4.70	11.30	Horizontal	-53.63	-13.00	40.63	44
7	12128.20	-60.50	5.20	13.80	Horizontal	-51.90	-13.00	38.90	53
8	13860.80	-55.26	5.70	11.30	Horizontal	-49.66	-13.00	36.66	45
9	15593.40	-64.85	6.10	16.80	Horizontal	-54.15	-13.00	41.15	27
10	17326.00	-58.94	6.10	14.20	Horizontal	-50.84	-13.00	37.84	25

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.

WCDMA Band V CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1671.20	-47.48	1.70	8.70	Horizontal	-42.63	-13.00	29.63	12
3	2510.40	-53.59	2.30	12.00	Horizontal	-46.04	-13.00	33.04	345
4	3346.40	-61.98	2.70	12.70	Horizontal	-54.13	-13.00	41.13	32
5	4183.00	-63.31	3.00	12.50	Horizontal	-55.96	-13.00	42.96	23
6	5019.60	-61.55	3.40	12.50	Horizontal	-54.60	-13.00	41.60	32
7	5856.20	-60.49	3.40	12.80	Horizontal	-53.24	-13.00	40.24	44
8	6692.80	-55.37	4.10	11.50	Horizontal	-50.12	-13.00	37.12	53
9	7529.40	-53.75	4.20	12.20	Horizontal	-47.90	-13.00	34.90	24
10	8366.00	-54.87	4.30	12.50	Horizontal	-48.82	-13.00	35.82	75

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 2 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	3759.00	-59.53	2.60	12.50	Horizontal	-49.63	-13.00	36.63	53
3	5638.40	-40.74	3.30	12.50	Horizontal	-31.54	-13.00	18.54	21
4	7520.00	-55.80	4.20	12.20	Horizontal	-47.80	-13.00	34.80	23
5	9400.00	-53.94	4.30	11.10	Horizontal	-47.14	-13.00	34.14	53
6	11280.00	-50.81	5.90	11.90	Horizontal	-44.81	-13.00	31.81	23
7	13160.00	-52.22	5.70	14.00	Horizontal	-43.92	-13.00	30.92	32
8	15040.00	-51.91	5.80	13.10	Horizontal	-44.61	-13.00	31.61	44
9	16920.00	-50.60	6.10	14.60	Horizontal	-42.10	-13.00	29.10	67
10	18800.00	/	/	/	/	/	/	/	/

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.

LTE Band 2 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	3755.63	-58.13	2.60	12.50	Horizontal	-48.23	-13.00	35.23	12
3	5633.63	-43.34	3.30	12.50	Horizontal	-34.14	-13.00	21.14	23
4	7510.00	-53.65	4.20	12.20	Horizontal	-45.65	-13.00	32.65	21
5	9387.50	-53.04	4.30	11.10	Horizontal	-46.24	-13.00	33.24	76
6	11265.00	-51.91	5.90	11.90	Horizontal	-45.91	-13.00	32.91	67
7	13142.00	-52.14	5.70	14.00	Horizontal	-43.84	-13.00	30.84	32
8	15020.00	-51.98	5.80	13.10	Horizontal	-44.68	-13.00	31.68	23
9	16897.50	-52.38	6.10	14.60	Horizontal	-43.88	-13.00	30.88	21
10	18800.00	/	/	/	/	/	/	/	/

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.

LTE Band 2 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	3742.13	-61.96	2.60	12.50	Horizontal	-52.06	-13.00	39.06	147
3	5613.38	-43.55	3.30	12.50	Horizontal	-34.35	-13.00	21.35	67
4	7484.63	-53.65	4.20	12.20	Horizontal	-45.65	-13.00	32.65	32
5	9355.33	-52.08	4.30	11.10	Horizontal	-45.28	-13.00	32.28	23
6	11226.39	-52.19	5.90	11.90	Horizontal	-46.19	-13.00	33.19	21
7	13097.46	-53.09	5.70	14.00	Horizontal	-44.79	-13.00	31.79	67
8	14968.52	-50.83	5.80	13.10	Horizontal	-43.53	-13.00	30.53	35
9	16938.59	-52.23	6.10	14.60	Horizontal	-43.73	-13.00	30.73	32
10	18800.00	/	/	/	/	/	/	/	/

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.

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3464.25	-58.53	2.70	12.70	Horizontal	-48.53	-13.00	35.53	67
3	5197.50	-55.39	3.20	12.50	Horizontal	-46.09	-13.00	33.09	45
4	6930.00	-64.11	4.20	11.80	Horizontal	-56.51	-13.00	43.51	76
5	8662.50	-64.41	4.40	12.50	Horizontal	-56.31	-13.00	43.31	58
6	10395.00	-58.87	4.70	11.30	Horizontal	-52.27	-13.00	39.27	67
7	12127.50	-62.65	5.20	13.80	Horizontal	-54.05	-13.00	41.05	35
8	13860.00	-55.24	5.70	11.30	Horizontal	-49.64	-13.00	36.64	67
9	15592.50	-65.35	6.10	16.80	Horizontal	-54.65	-13.00	41.65	45
10	17325.00	-59.52	6.10	14.20	Horizontal	-51.42	-13.00	38.42	76
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 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.50	-58.74	2.70	12.70	Horizontal	-48.74	-13.00	35.74	58
3	5191.50	-55.68	3.20	12.50	Horizontal	-46.38	-13.00	33.38	67
4	6930.00	-65.90	4.20	11.80	Horizontal	-58.30	-13.00	45.30	35
5	8662.50	-63.97	4.40	12.50	Horizontal	-55.87	-13.00	42.87	89
6	10380.00	-58.50	4.70	11.30	Horizontal	-51.90	-13.00	38.90	147
7	12110.00	-62.66	5.20	13.80	Horizontal	-54.06	-13.00	41.06	67
8	13840.00	-56.44	5.70	11.30	Horizontal	-50.84	-13.00	37.84	32
9	15570.00	-56.29	6.10	16.80	Horizontal	-45.59	-13.00	32.59	23
10	17300.00	-59.14	6.10	14.20	Horizontal	-51.04	-13.00	38.04	21
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 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.75	-60.01	2.70	12.70	Horizontal	-50.01	-13.00	37.01	76
3	5170.88	-53.37	3.20	12.50	Horizontal	-44.07	-13.00	31.07	67
4	6930.00	-66.47	4.20	11.80	Horizontal	-58.87	-13.00	45.87	32
5	8662.50	-65.24	4.40	12.50	Horizontal	-57.14	-13.00	44.14	23
6	10395.00	-60.00	4.70	11.30	Horizontal	-53.40	-13.00	40.40	32
7	12127.50	-61.69	5.20	13.80	Horizontal	-53.09	-13.00	40.09	44
8	13860.00	-56.68	5.70	11.30	Horizontal	-51.08	-13.00	38.08	53
9	15592.50	-64.68	6.10	16.80	Horizontal	-53.98	-13.00	40.98	35
10	17325.00	-60.22	6.10	14.20	Horizontal	-52.12	-13.00	39.12	89
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 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1413.60	-63.05	1.70	8.70	Horizontal	-58.20	-13.00	45.20	134
3	2120.40	-65.39	2.10	11.10	Horizontal	-58.54	-13.00	45.54	76
4	2827.20	-68.30	2.30	13.10	Horizontal	-59.65	-13.00	46.65	35
5	3537.50	-62.39	2.60	12.70	Horizontal	-54.44	-13.00	41.44	76
6	4245.00	-61.96	3.30	12.50	Horizontal	-54.91	-13.00	41.91	67
7	4952.50	-62.59	3.40	12.50	Horizontal	-55.64	-13.00	42.64	32
8	5660.00	-62.69	3.30	12.50	Horizontal	-55.64	-13.00	42.64	23
9	6367.50	-57.59	3.80	11.50	Horizontal	-52.04	-13.00	39.04	32
10	7075.00	-52.20	4.20	11.80	Horizontal	-46.75	-13.00	33.75	44
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 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.60	-63.52	1.70	8.70	Horizontal	-58.67	-13.00	45.67	89
3	2115.90	-66.12	2.10	11.10	Horizontal	-59.27	-13.00	46.27	147
4	2820.00	-66.56	2.30	13.10	Horizontal	-57.91	-13.00	44.91	67
5	3525.00	-61.72	2.60	12.70	Horizontal	-53.77	-13.00	40.77	53
6	4230.00	-63.13	3.30	12.50	Horizontal	-56.08	-13.00	43.08	21
7	4935.00	-60.79	3.40	12.50	Horizontal	-53.84	-13.00	40.84	23
8	5640.00	-61.86	3.30	12.50	Horizontal	-54.81	-13.00	41.81	53
9	6345.00	-57.60	3.80	11.50	Horizontal	-52.05	-13.00	39.05	45
10	7050.00	-52.00	4.20	11.80	Horizontal	-46.55	-13.00	33.55	64
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 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1405.00	-63.23	1.70	8.70	Horizontal	-58.38	-13.00	45.38	32
3	2107.50	-65.89	2.10	11.10	Horizontal	-59.04	-13.00	46.04	23
4	2810.00	-67.67	2.30	13.10	Horizontal	-59.02	-13.00	46.02	21
5	3512.50	-65.31	2.60	12.70	Horizontal	-57.36	-13.00	44.36	134
6	4215.00	-62.60	3.30	12.50	Horizontal	-55.55	-13.00	42.55	76
7	4917.50	-63.03	3.40	12.50	Horizontal	-56.08	-13.00	43.08	35
8	5620.00	-61.55	3.30	12.50	Horizontal	-54.50	-13.00	41.50	89
9	6322.50	-57.29	3.80	11.50	Horizontal	-51.74	-13.00	38.74	147
10	7025.00	-51.77	4.20	11.80	Horizontal	-46.32	-13.00	33.32	108
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.									

77-8000:

LTE Band 2 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	3759.00	-63.86	2.60	12.50	Horizontal	-53.96	-13.00	40.96	158
3	5638.40	-62.47	3.30	12.50	Horizontal	-53.27	-13.00	40.27	45
4	7520.00	-55.41	4.20	12.20	Horizontal	-47.41	-13.00	34.41	34
5	9400.00	-54.04	4.30	11.10	Horizontal	-47.24	-13.00	34.24	45
6	11280.00	-51.84	5.90	11.90	Horizontal	-45.84	-13.00	32.84	23
7	13160.00	-51.59	5.70	14.00	Horizontal	-43.29	-13.00	30.29	0
8	15040.00	-54.43	5.80	13.10	Horizontal	-47.13	-13.00	34.13	78
9	16920.00	-50.22	6.10	14.60	Horizontal	-41.72	-13.00	28.72	16
10	18800.00	/	/	/	/	/	/	/	/

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.

77-8002:

LTE Band 2 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	3759.00	-64.70	2.60	12.50	Horizontal	-54.80	-13.00	41.80	76
3	5638.40	-62.03	3.30	12.50	Horizontal	-52.83	-13.00	39.83	12
4	7520.00	-56.14	4.20	12.20	Horizontal	-48.14	-13.00	35.14	45
5	9400.00	-52.61	4.30	11.10	Horizontal	-45.81	-13.00	32.81	88
6	11280.00	-52.13	5.90	11.90	Horizontal	-46.13	-13.00	33.13	45
7	13160.00	-51.31	5.70	14.00	Horizontal	-43.01	-13.00	30.01	0
8	15040.00	-55.72	5.80	13.10	Horizontal	-48.42	-13.00	35.42	9
9	16920.00	-49.56	6.10	14.60	Horizontal	-41.06	-13.00	28.06	45
10	18800.00	/	/	/	/	/	/	/	/

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.

77-8003:

LTE Band 2 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	3759.00	-65.32	2.60	12.50	Horizontal	-55.42	-13.00	42.42	88
3	5638.40	-61.43	3.30	12.50	Horizontal	-52.23	-13.00	39.23	21
4	7520.00	-56.31	4.20	12.20	Horizontal	-48.31	-13.00	35.31	23
5	9400.00	-53.83	4.30	11.10	Horizontal	-47.03	-13.00	34.03	34
6	11280.00	-51.49	5.90	11.90	Horizontal	-45.49	-13.00	32.49	45
7	13160.00	-51.67	5.70	14.00	Horizontal	-43.37	-13.00	30.37	55
8	15040.00	-54.92	5.80	13.10	Horizontal	-47.62	-13.00	34.62	22
9	16920.00	-50.92	6.10	14.60	Horizontal	-42.42	-13.00	29.42	98
10	18800.00	/	/	/	/	/	/	/	/

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.

7 Main Test Instruments

Date of Testing: March 3, 2025 ~ March 13, 2025 and July 30, 2025

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
EMI Test Receiver	R&S	ESCI3	100948	2024-05-07	2025-05-06
Signal Analyzer	R&S	FSV40	101186	2024-05-07	2025-05-06
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	MWPA.CN	MWLA-010200 G40	YQ2103039B0 1	2024-05-07	2025-05-06
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Software	R&S	EMC32	9.26.01	/	/

Date of Testing: July 30, 2025

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV30	100815	2024-12-02	2025-12-01
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 *****