

TEST REPORT



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Tel : 031-321-2664, Fax : 031-321-1664

1. Report No : DRTFCC2603-0026

2. Customer

• Name (FCC) : AUTOIT CO LTD

• Address (FCC) : 117, Alphacity 1-ro, Suseong-gu, Daegu, South Korea, 42251

3. Use of Report : FCC Original Certification

4. Product Name / Model Name : AutoIT IMSF CCU / RV-C1000

FCC ID : 2BTCSR-V-C1000V10

5. FCC Regulation(s) : Part 22, 24, 27, 90

Test Method Used : KDB971168 D01v03r01, ANSI C63.26-2015

6. Date of Test : 2025.11.17 ~ 2026.01.13

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

8. Testing Environment : See appended test report.

9. Test Result : Refer to the attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test report is not related to KOLAS accreditation.

Affirmation	Tested by	Technical Manager
	Name : SeungMin Gil 	Name : JaeJin Lee 

2026 . 03 . 09 .

Dt&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2603-0026	Mar. 09, 2026	Initial issue	SeungMin Gil	JaeJin Lee

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1. GENERAL INFORMATION

Equipment Class	PCS Licensed Transmitter(PCB)
Product Name	AutoIT IMSF CCU
Model Name(s)	RV-C1000
Add Model Name	-
FVIN(Firmware Version Identification Number)	v0.0.1
EUT Serial Number	20D8CD70639
Power Supply	DC: 12V, 24V
Antenna type	5G Screw Mount 5 IN 1 Antenna

Antenna Information (LTE)

Band	Antenna gain(dBi)
12	-1.08
13	1.18
26	1.18
5	1.18
4	4.08
25	3.90
2	3.90
7	3.95
38	3.48
41	3.95

Note: The antenna gain was corrected for the cable loss from the conducted feed point to the antenna terminal.

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		ERP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 12	704 ~ 711	10	QPSK	22.87	0.194	19.64	0.092
LTE Band 12	704 ~ 711	10	16QAM	21.96	0.157	18.73	0.075
LTE Band 12	701.5 ~ 713.5	5	QPSK	22.89	0.195	19.66	0.092
LTE Band 12	701.5 ~ 713.5	5	16QAM	21.93	0.156	18.70	0.074
LTE Band 12	700.5 ~ 714.5	3	QPSK	22.83	0.192	19.60	0.091
LTE Band 12	700.5 ~ 714.5	3	16QAM	21.99	0.158	18.76	0.075
LTE Band 12	699.7 ~ 715.3	1.4	QPSK	22.92	0.196	19.69	0.093
LTE Band 12	699.7 ~ 715.3	1.4	16QAM	22.00	0.158	18.77	0.075
LTE Band 13	782	10	QPSK	22.91	0.195	21.94	0.156
LTE Band 13	782	10	16QAM	22.01	0.159	21.04	0.127
LTE Band 13	779.5 ~ 784.5	5	QPSK	22.91	0.195	21.94	0.156
LTE Band 13	779.5 ~ 784.5	5	16QAM	22.01	0.159	21.04	0.127
LTE Band 26(P90)	819	10	QPSK	22.94	0.197	21.97	0.157
LTE Band 26(P90)	819	10	16QAM	22.11	0.163	21.14	0.130
LTE Band 26(P90)	816.5 ~ 821.5	5	QPSK	22.82	0.191	21.85	0.153
LTE Band 26(P90)	816.5 ~ 821.5	5	16QAM	21.95	0.157	20.98	0.125
LTE Band 26(P90)	815.5 ~ 822.5	3	QPSK	22.81	0.191	21.84	0.153
LTE Band 26(P90)	815.5 ~ 822.5	3	16QAM	21.94	0.156	20.97	0.125
LTE Band 26(P90)	814.7 ~ 823.3	1.4	QPSK	22.85	0.193	21.88	0.154
LTE Band 26(P90)	814.7 ~ 823.3	1.4	16QAM	21.95	0.157	20.98	0.125
LTE Band 26(P22)	831.5 ~ 841.5	15	QPSK	22.97	0.198	22.00	0.158
LTE Band 26(P22)	831.5 ~ 841.5	15	16QAM	22.09	0.162	21.12	0.129
LTE Band 26(P22)	829 ~ 844	10	QPSK	22.98	0.199	22.01	0.159
LTE Band 26(P22)	829 ~ 844	10	16QAM	22.00	0.158	21.03	0.127
LTE Band 26(P22)	826.5 ~ 846.5	5	QPSK	22.93	0.196	21.96	0.157
LTE Band 26(P22)	826.5 ~ 846.5	5	16QAM	22.00	0.158	21.03	0.127
LTE Band 26(P22)	825.5 ~ 847.5	3	QPSK	22.94	0.197	21.97	0.157
LTE Band 26(P22)	825.5 ~ 847.5	3	16QAM	22.12	0.163	21.15	0.130
LTE Band 26(P22)	824.7 ~ 848.3	1.4	QPSK	22.90	0.195	21.93	0.156
LTE Band 26(P22)	824.7 ~ 848.3	1.4	16QAM	21.97	0.157	21.00	0.126
LTE Band 5	829 ~ 844	10	QPSK	23.14	0.206	22.17	0.165
LTE Band 5	829 ~ 844	10	16QAM	22.29	0.169	21.32	0.136
LTE Band 5	826.5 ~ 846.5	5	QPSK	23.01	0.200	22.04	0.160
LTE Band 5	826.5 ~ 846.5	5	16QAM	22.09	0.162	21.12	0.129
LTE Band 5	825.5 ~ 847.5	3	QPSK	23.14	0.206	22.17	0.165
LTE Band 5	825.5 ~ 847.5	3	16QAM	22.27	0.169	21.30	0.135
LTE Band 5	824.7 ~ 848.3	1.4	QPSK	23.08	0.203	22.11	0.163
LTE Band 5	824.7 ~ 848.3	1.4	16QAM	22.21	0.166	21.24	0.133

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 4	1720 ~ 1745	20	QPSK	22.44	0.175	26.52	0.449
LTE Band 4	1720 ~ 1745	20	16QAM	21.47	0.140	25.55	0.359
LTE Band 4	1717.5 ~ 1747.5	15	QPSK	22.34	0.171	26.42	0.439
LTE Band 4	1717.5 ~ 1747.5	15	16QAM	21.43	0.139	25.51	0.356
LTE Band 4	1715 ~ 1750	10	QPSK	22.34	0.171	26.42	0.439
LTE Band 4	1715 ~ 1750	10	16QAM	21.48	0.141	25.56	0.360
LTE Band 4	1712.5 ~ 1752.5	5	QPSK	22.25	0.168	26.33	0.430
LTE Band 4	1712.5 ~ 1752.5	5	16QAM	21.38	0.137	25.46	0.352
LTE Band 4	1711.5 ~ 1753.5	3	QPSK	22.46	0.176	26.54	0.451
LTE Band 4	1711.5 ~ 1753.5	3	16QAM	21.49	0.141	25.57	0.361
LTE Band 4	1710.7 ~ 1754.3	1.4	QPSK	22.24	0.167	26.32	0.429
LTE Band 4	1710.7 ~ 1754.3	1.4	16QAM	21.39	0.138	25.47	0.352
LTE Band 25	1860 ~ 1905	20	QPSK	22.19	0.166	26.09	0.406
LTE Band 25	1860 ~ 1905	20	16QAM	21.23	0.133	25.13	0.326
LTE Band 25	1857.5 ~ 1907.5	15	QPSK	22.22	0.167	26.12	0.409
LTE Band 25	1857.5 ~ 1907.5	15	16QAM	21.39	0.138	25.29	0.338
LTE Band 25	1855 ~ 1910	10	QPSK	22.16	0.164	26.06	0.404
LTE Band 25	1855 ~ 1910	10	16QAM	21.26	0.134	25.16	0.328
LTE Band 25	1852.5 ~ 1912.5	5	QPSK	22.17	0.165	26.07	0.405
LTE Band 25	1852.5 ~ 1912.5	5	16QAM	21.34	0.136	25.24	0.334
LTE Band 25	1851.5 ~ 1913.5	3	QPSK	22.17	0.165	26.07	0.405
LTE Band 25	1851.5 ~ 1913.5	3	16QAM	21.26	0.134	25.16	0.328
LTE Band 25	1850.7 ~ 1914.3	1.4	QPSK	21.98	0.158	25.88	0.387
LTE Band 25	1850.7 ~ 1914.3	1.4	16QAM	21.13	0.130	25.03	0.318
LTE Band 2	1860 ~ 1900	20	QPSK	22.10	0.162	26.00	0.398
LTE Band 2	1860 ~ 1900	20	16QAM	21.13	0.130	25.03	0.318
LTE Band 2	1857.5 ~ 1902.5	15	QPSK	22.15	0.164	26.05	0.403
LTE Band 2	1857.5 ~ 1902.5	15	16QAM	21.31	0.135	25.21	0.332
LTE Band 2	1855 ~ 1905	10	QPSK	22.08	0.161	25.98	0.396
LTE Band 2	1855 ~ 1905	10	16QAM	21.21	0.132	25.11	0.324
LTE Band 2	1852.5 ~ 1907.5	5	QPSK	22.12	0.163	26.02	0.400
LTE Band 2	1852.5 ~ 1907.5	5	16QAM	21.25	0.133	25.15	0.327
LTE Band 2	1851.5 ~ 1908.5	3	QPSK	22.11	0.163	26.01	0.399
LTE Band 2	1851.5 ~ 1908.5	3	16QAM	21.18	0.131	25.08	0.322
LTE Band 2	1850.7 ~ 1909.3	1.4	QPSK	21.93	0.156	25.83	0.383
LTE Band 2	1850.7 ~ 1909.3	1.4	16QAM	21.07	0.128	24.97	0.314

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 38	2580 ~ 2610	20	QPSK	22.02	0.159	25.50	0.355
LTE Band 38	2580 ~ 2610	20	16QAM	21.00	0.126	24.48	0.281
LTE Band 38	2577.5 ~ 2612.5	15	QPSK	21.95	0.157	25.43	0.349
LTE Band 38	2577.5 ~ 2612.5	15	16QAM	21.15	0.130	24.63	0.290
LTE Band 38	2575 ~ 2615	10	QPSK	22.06	0.161	25.54	0.358
LTE Band 38	2575 ~ 2615	10	16QAM	21.18	0.131	24.66	0.292
LTE Band 38	2572.5 ~ 2617.5	5	QPSK	22.00	0.158	25.48	0.353
LTE Band 38	2572.5 ~ 2617.5	5	16QAM	21.00	0.126	24.48	0.281
LTE Band 41	2506 ~ 2680	20	QPSK	22.01	0.159	25.96	0.394
LTE Band 41	2506 ~ 2680	20	16QAM	21.01	0.126	24.96	0.313
LTE Band 41	2503.5 ~ 2682.5	15	QPSK	21.91	0.155	25.86	0.385
LTE Band 41	2503.5 ~ 2682.5	15	16QAM	20.94	0.124	24.89	0.308
LTE Band 41	2501 ~ 2685	10	QPSK	21.87	0.154	25.82	0.382
LTE Band 41	2501 ~ 2685	10	16QAM	21.10	0.129	25.05	0.320
LTE Band 41	2498.5 ~ 2687.5	5	QPSK	21.87	0.154	25.82	0.382
LTE Band 41	2498.5 ~ 2687.5	5	16QAM	21.03	0.127	24.98	0.315
LTE Band 7	2510 ~ 2560	20	QPSK	21.65	0.146	25.60	0.363
LTE Band 7	2510 ~ 2560	20	16QAM	20.70	0.117	24.65	0.292
LTE Band 7	2507.5 ~ 2562.5	15	QPSK	21.61	0.145	25.56	0.360
LTE Band 7	2507.5 ~ 2562.5	15	16QAM	20.68	0.117	24.63	0.290
LTE Band 7	2505 ~ 2565	10	QPSK	21.53	0.142	25.48	0.353
LTE Band 7	2505 ~ 2565	10	16QAM	20.63	0.116	24.58	0.287
LTE Band 7	2502.5 ~ 2567.5	5	QPSK	21.37	0.137	25.32	0.340
LTE Band 7	2502.5 ~ 2567.5	5	16QAM	20.45	0.111	24.40	0.275

2. INTRODUCTION

2.1. EUT DESCRIPTION

The Equipment Under Test (EUT) supports 850/1900 GSM, 850/1700/1900 WCDMA, Multi-band LTE, 802.11b/g/n WLAN(2.4GHz), 802.11ac WLAN(5GHz).

2.2. TESTING ENVIRONMENT

Ambient Condition	
▪ Temperature	+22 °C ~ +25 °C
▪ Relative Humidity	40 % ~ 46 %

2.3. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.4. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C63.26-2015. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
Radiated Disturbance (Below 1 GHz)	4.9 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	4.9 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (Above 18 GHz)	5.8 dB (The confidence level is about 95 %, $k = 2$)

2.5. TEST FACILITY

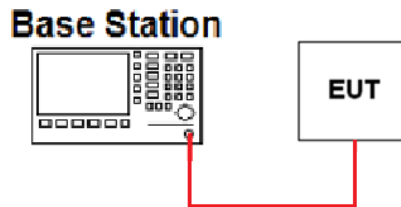
Dt&C Co., Ltd.		
The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.		
The test site complies with the requirements of Part 2.948.		
- FCC Designation No.: KR0034		
- FCC Test Firm Registration No.: 704742		
- ISSED CAB identifier: KR0034		
- ISSED#: 5740A		
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3. DESCRIPTION OF TESTS

3.1. MAXIMUM OUTPUT POWER

Conducted Output Power

Test Set-up



Test Procedure

- KDB971168 D01v03r01 - Section 5.2.4
- ANSI C63.26-2015 – Section 5.2.4.2

When an average power meter is used to perform RF output power measurements, the fundamental condition that measurements be performed only over durations of active transmissions at maximum output power level applies. Thus, an average power meter can always be used to perform the measurement when the EUT can be configured to transmit continuously.

If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle < 98%), then the following options can be implemented to facilitate measurement of the average power with an average power meter:

- a) A gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only during active transmission bursts at maximum output power levels.
- b) A conventional average power meter with no signal gating capability can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than or equal to $\pm 2\%$) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to $[10 \log (1/\text{duty cycle})]$.

- ERP & EIRP (Effective Radiated Power & Equivalent Isotropic Radiated Power)

Test Procedure

- KDB971168 D01v03r01 - Section 5.6
- ANSI C63.26-2015 – Section 5.2.5.5

Determining ERP and EIRP from conducted RF output power measurement results

$$\text{ERP or EIRP} = \text{PMeas} + \text{GT}$$

where:

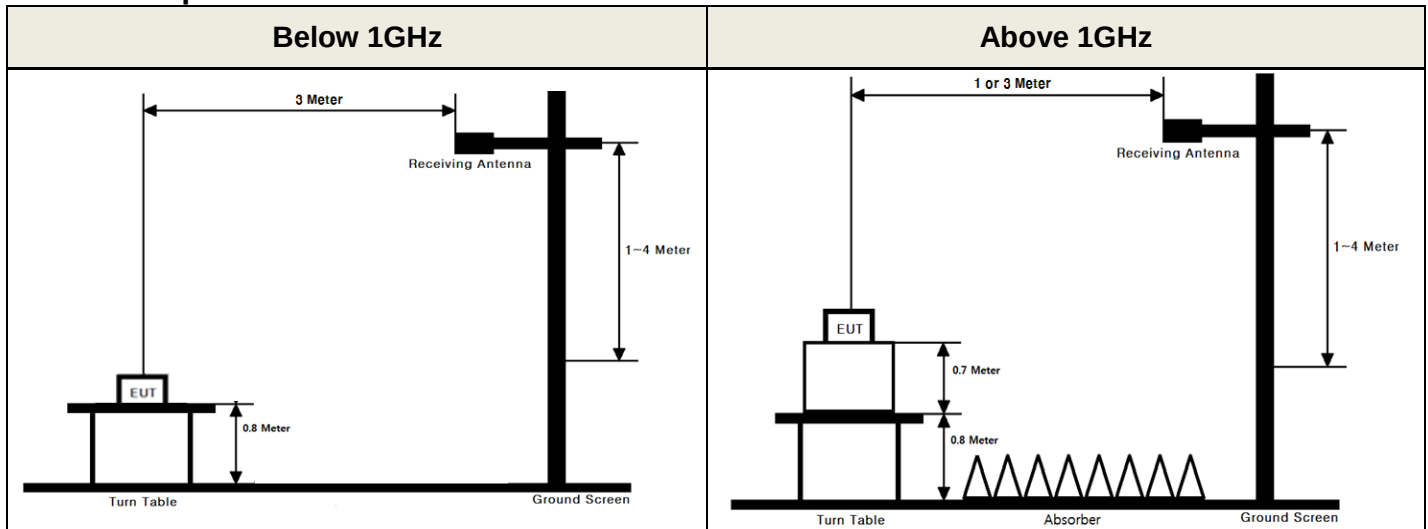
ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

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

3.2. UNDESIRABLE EMISSIONS

Test Set-up



These measurements were performed at 3 test site. The equipment under test is placed on a non-conductive table 0.8 or 1.5 meters above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Test Procedure

- KDB971168 D01v03r01 - Section 7
- ANSI C63.26-2015 – Section 5.5

Test setting

1. RBW = 100 kHz for below 1 GHz and 1 MHz for above 1 GHz / VBW $\geq 3 \times$ RBW
2. Detector = RMS & Trace mode = Max hold
3. Sweep time = Auto couple
4. Number of sweep point $\geq 2 \times$ span / RBW
5. The trace was allowed to stabilize

The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. For radiated spurious emission measurements below 1 GHz, a half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading.

For radiated spurious emission measurements above 1 GHz, a Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. The difference between the gain of the horn and an isotropic antenna are taken into consideration.

4. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal. Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	25/11/18	26/11/18	MY50410399
DC Power Supply	SM techno	SDP30-5D	25/05/29	26/05/29	305DMG304
DC Power Supply	DIGITAL	DPR-303D	25/05/29	26/05/29	2090097
Multimeter	FLUKE	17B	25/11/21	26/11/21	26030065WS
Radio Communication Analyzer	Anritsu	MT8820C	25/11/19	26/11/19	6201274516
Thermohygrometer	BODYCOM	BJ5478	25/11/24	26/11/24	120612-1
Thermohygrometer	BODYCOM	BJ5478	25/11/24	26/11/24	120612-2
Signal Generator	Rohde Schwarz	SMBV100A	25/11/20	26/11/20	255571
Signal Generator	ANRITSU	MG3695C	25/11/18	26/11/18	173501
Loop Antenna	ETS-Lindgren	6502	25/11/06	27/11/06	00060496
Hybrid Antenna	Schwarzbeck	VULB9163	25/05/27	27/05/27	9163-572
HORN ANT	ETS	3117	25/11/27	26/11/27	00140394
HORN ANT	A.H.Systems	SAS-574	25/06/11	26/06/11	155
PreAmplifier	H.P	8447D	25/11/17	26/11/17	2944A07774
PreAmplifier	Agilent	8449B	25/11/17	26/11/17	3008A02108
PreAmplifier	A.H.Systems Inc.	PAM-1840VH	25/05/29	26/05/29	163
High-pass filter	Wainwright	WHKX12-935-1000-15000-40SS	25/11/18	26/11/18	7
High-pass filter	Wainwright	WHKX10-2838-3300-18000-60SS	25/11/18	26/11/18	2
High-pass filter	Wainwright	WHKX6-6320-8000-26500-40CC	25/11/18	26/11/18	2
Cable	HUBER+SUHNER	SUCOFLEX100	26/01/02	27/01/02	M-1
Cable	HUBER+SUHNER	SUCOFLEX100	26/01/02	27/01/02	M-2
Cable	JUNKOSHA	MWX241/B	26/01/02	27/01/02	M-3
Cable	JUNKOSHA	MWX221	26/01/02	27/01/02	M-4
Cable	JUNKOSHA	MWX221	26/01/02	27/01/02	M-5
Cable	JUNFLON	J12J101757-00	26/01/02	27/01/02	M-7
Cable	HUBER+SUHNER	SUCOFLEX104	26/01/02	27/01/02	M-8
Cable	HUBER+SUHNER	SUCOFLEX106	26/01/02	27/01/02	M-9
Cable	JUNKOSHA	MWX315	26/01/02	27/01/02	M-10
Cable	Junkosha	MWX241	26/01/02	27/01/02	mmW-1
Cable	Junkosha	MWX241	26/01/02	27/01/02	mmW-4
Cable	Radiall	TESTPRO3	26/01/02	27/01/02	RFC-70
3m Semi Anechoic Chamber	SYC	3m-SAC	25/06/13(NSA) 25/06/19(VSWR)	26/06/13(NSA) 26/06/19(VSWR)	3m-SAC-1

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.

Note2: The cable is not a regular calibration item, so it has been calibrated by Dt&C itself.

5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Status Note 1
2.1046	Conducted Output Power	N/A	C
2.1046 90.635(b)	Conducted Output Power (B26: 814 ~ 824 MHz)	< 100 Watts	C
27.50(b)(9) 27.50(c)(9)	Effective Radiated Power (B12, 13)	< 30 Watts max. ERP (mobile station)	C
22.913(a)(5)	Effective Radiated Power (B26, 5: 824 ~ 849 MHz)	< 7 Watts max. ERP	C
27.50(d)(4)	Equivalent Isotropic Radiated Power (B4)	< 1 Watts max. EIRP	C
24.232(c) 27.50(h.2)	Equivalent Isotropic Radiated Power (B2, 7, 25, 41, 38)	< 2 Watts max. EIRP	C
2.1053 22.917(a) 24.238(a) 27.53(h) 27.53(g) 90.691(a)(2)	Undesirable Emissions (B26, 5, 2, 25, 4, 12, 13)	> 43 + 10log ₁₀ (P) dB for all out-of-band emissions	C Note2, 4
27.53(f)	Undesirable Emissions in 1559 ~ 1610 MHz (B13)	< -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions of less than 700 Hz bandwidth)	C Note2, 4
27.53(m)(4)	Undesirable Emissions (B7, 41, 38)	> 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge where X is the greater of 6 megahertz or the actual emission bandwidth	C Note2, 4

Note 1: **C**=Comply **NC**=Not Comply **NT**=Not Tested **NA**=Not Applicable

Note 2: This test item was performed in three orthogonal EUT positions and the worst case data was reported.

Note 3: This device uses the certified module. (FCC ID: XMR201906EG21G)

Please refer to the module test for conducted signal test items.

Note 4: The radiated test items were performed at DC 12 V and DC 24 V. And the worst case data are reported.

6. SAMPLE CALCULATION

A. For substitution method

Unwanted emissions

- 1) The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1 GHz respectively above ground.
- 2) The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 3) Vary the measurement antenna height through 1 m to 4 m and the rotate EUT through 360° in order to determine the maximum emission level.
- 4) Record the measured emission level and frequency using the available test method.
If required by the test method, add $10 \log(1/\text{duty cycle})$ to measured emission level.
- 5) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 6) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude. And adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the previously emission level[Measured level + $10 \log(1/\text{duty cycle})$].
- 7) The conducted power at the terminal of the substitute antenna is measured.
- 8) Record the level at substituted antenna terminal.
- 9) The result is calculated as below;

Result: EIRP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBi)

Result: ERP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBd)

Where, TX Antenna Gain (dBd) = TX Antenna Gain (dBi) - 2.15 dB

7. TEST DATA

7.1. MAXIMUM OUTPUT POWER

- Test Notes

- 1) $EIRP(dBm) = \text{Conducted Output power}(dBm) + \text{Antenna Gain}(dBi)$
 $ERP = EIRP - 2.15(dB)$

7.1.1. LTE Band 12

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)	ERP Limit (dBm)
10	704	QPSK	1/25	22.82	-1.08	21.74	19.59	44.77
		16QAM	1/25	21.90	-1.08	20.82	18.67	44.77
	707.5	QPSK	1/25	22.87	-1.08	21.79	19.64	44.77
		16QAM	1/25	21.96	-1.08	20.88	18.73	44.77
	711	QPSK	1/0	22.86	-1.08	21.78	19.63	44.77
		16QAM	1/25	21.92	-1.08	20.84	18.69	44.77
5	701.5	QPSK	1/12	22.73	-1.08	21.65	19.50	44.77
		16QAM	1/24	21.86	-1.08	20.78	18.63	44.77
	707.5	QPSK	1/12	22.89	-1.08	21.81	19.66	44.77
		16QAM	1/12	21.93	-1.08	20.85	18.70	44.77
	713.5	QPSK	1/12	22.63	-1.08	21.55	19.40	44.77
		16QAM	1/12	21.67	-1.08	20.59	18.44	44.77
3	700.5	QPSK	1/14	22.69	-1.08	21.61	19.46	44.77
		16QAM	1/7	21.76	-1.08	20.68	18.53	44.77
	707.5	QPSK	1/7	22.83	-1.08	21.75	19.60	44.77
		16QAM	1/7	21.99	-1.08	20.91	18.76	44.77
	714.5	QPSK	1/0	22.72	-1.08	21.64	19.49	44.77
		16QAM	1/0	21.80	-1.08	20.72	18.57	44.77
1.4	699.7	QPSK	1/2	22.55	-1.08	21.47	19.32	44.77
		16QAM	1/5	21.71	-1.08	20.63	18.48	44.77
	707.5	QPSK	1/2	22.92	-1.08	21.84	19.69	44.77
		16QAM	1/5	22.00	-1.08	20.92	18.77	44.77
	715.3	QPSK	1/2	22.60	-1.08	21.52	19.37	44.77
		16QAM	1/2	21.72	-1.08	20.64	18.49	44.77

7.1.2. LTE Band 13

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)	ERP Limit (dBm)
10	782	QPSK	1/49	22.91	1.18	24.09	21.94	44.77
		16QAM	1/49	22.01	1.18	23.19	21.04	44.77
5	779.5	QPSK	1/0	22.91	1.18	24.09	21.94	44.77
		16QAM	1/0	22.01	1.18	23.19	21.04	44.77
	784.5	QPSK	1/24	22.85	1.18	24.03	21.88	44.77
		16QAM	1/0	21.92	1.18	23.10	20.95	44.77

7.1.3. LTE Band 26 (814 ~ 824 MHz)

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)	Conducted Power Limit (dBm)
10	819	QPSK	1/25	22.94	1.18	24.12	21.97	50.00
		16QAM	1/25	22.11	1.18	23.29	21.14	50.00
5	816.5	QPSK	1/12	22.82	1.18	24.00	21.85	50.00
		16QAM	1/0	21.95	1.18	23.13	20.98	50.00
	821.5	QPSK	1/24	22.73	1.18	23.91	21.76	50.00
		16QAM	1/12	21.84	1.18	23.02	20.87	50.00
3	815.5	QPSK	1/14	22.81	1.18	23.99	21.84	50.00
		16QAM	1/7	21.94	1.18	23.12	20.97	50.00
	819	QPSK	1/7	22.70	1.18	23.88	21.73	50.00
		16QAM	1/0	21.82	1.18	23.00	20.85	50.00
	822.5	QPSK	1/7	22.68	1.18	23.86	21.71	50.00
		16QAM	1/7	21.84	1.18	23.02	20.87	50.00
1.4	814.7	QPSK	1/5	22.85	1.18	24.03	21.88	50.00
		16QAM	1/2	21.95	1.18	23.13	20.98	50.00
	819	QPSK	1/0	22.75	1.18	23.93	21.78	50.00
		16QAM	1/2	21.91	1.18	23.09	20.94	50.00
	823.3	QPSK	1/0	22.62	1.18	23.80	21.65	50.00
		16QAM	1/2	21.75	1.18	22.93	20.78	50.00

7.1.4. LTE Band 26 (824 ~ 849 MHz)

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)	ERP Limit (dBm)
15	831.5	QPSK	1/74	22.95	1.18	24.13	21.98	38.45
		16QAM	1/74	22.08	1.18	23.26	21.11	38.45
	836.5	QPSK	1/36	22.94	1.18	24.12	21.97	38.45
		16QAM	1/36	22.09	1.18	23.27	21.12	38.45
	841.5	QPSK	1/0	22.97	1.18	24.15	22.00	38.45
		16QAM	1/0	22.00	1.18	23.18	21.03	38.45
10	829	QPSK	1/49	22.96	1.18	24.14	21.99	38.45
		16QAM	1/0	21.99	1.18	23.17	21.02	38.45
	836.5	QPSK	1/0	22.98	1.18	24.16	22.01	38.45
		16QAM	1/25	22.00	1.18	23.18	21.03	38.45
	844	QPSK	1/0	22.89	1.18	24.07	21.92	38.45
		16QAM	1/0	21.95	1.18	23.13	20.98	38.45
5	826.5	QPSK	1/12	22.72	1.18	23.90	21.75	38.45
		16QAM	1/24	21.87	1.18	23.05	20.90	38.45
	836.5	QPSK	1/24	22.93	1.18	24.11	21.96	38.45
		16QAM	1/24	22.00	1.18	23.18	21.03	38.45
	846.5	QPSK	1/12	22.69	1.18	23.87	21.72	38.45
		16QAM	1/12	21.69	1.18	22.87	20.72	38.45
3	825.5	QPSK	1/0	22.77	1.18	23.95	21.80	38.45
		16QAM	1/0	21.96	1.18	23.14	20.99	38.45
	836.5	QPSK	1/0	22.94	1.18	24.12	21.97	38.45
		16QAM	1/0	22.12	1.18	23.30	21.15	38.45
	847.5	QPSK	1/14	22.71	1.18	23.89	21.74	38.45
		16QAM	1/7	21.74	1.18	22.92	20.77	38.45
1.4	824.7	QPSK	1/2	22.90	1.18	24.08	21.93	38.45
		16QAM	1/2	21.90	1.18	23.08	20.93	38.45
	836.5	QPSK	1/2	22.79	1.18	23.97	21.82	38.45
		16QAM	1/2	21.97	1.18	23.15	21.00	38.45
	848.3	QPSK	1/2	22.58	1.18	23.76	21.61	38.45
		16QAM	1/5	21.64	1.18	22.82	20.67	38.45

7.1.5. LTE Band 5

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)	ERP Limit (dBm)
10	829	QPSK	1/49	23.14	1.18	24.32	22.17	38.45
		16QAM	1/49	22.29	1.18	23.47	21.32	38.45
	836.5	QPSK	1/0	23.03	1.18	24.21	22.06	38.45
		16QAM	1/0	22.23	1.18	23.41	21.26	38.45
	844	QPSK	1/25	23.14	1.18	24.32	22.17	38.45
		16QAM	1/25	22.26	1.18	23.44	21.29	38.45
5	826.5	QPSK	1/12	22.91	1.18	24.09	21.94	38.45
		16QAM	1/12	22.07	1.18	23.25	21.10	38.45
	836.5	QPSK	1/0	23.01	1.18	24.19	22.04	38.45
		16QAM	1/0	22.09	1.18	23.27	21.12	38.45
	846.5	QPSK	1/0	22.91	1.18	24.09	21.94	38.45
		16QAM	1/0	22.06	1.18	23.24	21.09	38.45
3	825.5	QPSK	1/0	23.06	1.18	24.24	22.09	38.45
		16QAM	1/0	22.15	1.18	23.33	21.18	38.45
	836.5	QPSK	1/0	23.14	1.18	24.32	22.17	38.45
		16QAM	1/0	22.27	1.18	23.45	21.30	38.45
	847.5	QPSK	1/0	22.89	1.18	24.07	21.92	38.45
		16QAM	1/7	22.00	1.18	23.18	21.03	38.45
1.4	824.7	QPSK	1/2	23.04	1.18	24.22	22.07	38.45
		16QAM	1/2	22.21	1.18	23.39	21.24	38.45
	836.5	QPSK	1/2	23.08	1.18	24.26	22.11	38.45
		16QAM	1/2	22.18	1.18	23.36	21.21	38.45
	848.3	QPSK	1/2	22.97	1.18	24.15	22.00	38.45
		16QAM	1/2	22.06	1.18	23.24	21.09	38.45

7.1.6. LTE Band 4

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power(dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	EIRP Limit (dBm)
20	1720	QPSK	1/99	22.27	4.08	26.35	30.00
		16QAM	1/99	21.47	4.08	25.55	30.00
	1732.5	QPSK	1/0	22.35	4.08	26.43	30.00
		16QAM	1/0	21.46	4.08	25.54	30.00
	1745	QPSK	1/0	22.44	4.08	26.52	30.00
		16QAM	1/0	21.47	4.08	25.55	30.00
15	1717.5	QPSK	1/74	22.27	4.08	26.35	30.00
		16QAM	1/0	21.38	4.08	25.46	30.00
	1732.5	QPSK	1/74	22.26	4.08	26.34	30.00
		16QAM	1/36	21.34	4.08	25.42	30.00
	1747.5	QPSK	1/0	22.34	4.08	26.42	30.00
		16QAM	1/0	21.43	4.08	25.51	30.00
10	1715	QPSK	1/25	22.29	4.08	26.37	30.00
		16QAM	1/25	21.38	4.08	25.46	30.00
	1732.5	QPSK	1/0	22.31	4.08	26.39	30.00
		16QAM	1/25	21.44	4.08	25.52	30.00
	1750	QPSK	1/0	22.34	4.08	26.42	30.00
		16QAM	1/0	21.48	4.08	25.56	30.00
5	1712.5	QPSK	1/24	22.19	4.08	26.27	30.00
		16QAM	1/24	21.26	4.08	25.34	30.00
	1732.5	QPSK	1/12	22.23	4.08	26.31	30.00
		16QAM	1/0	21.35	4.08	25.43	30.00
	1752.5	QPSK	1/24	22.25	4.08	26.33	30.00
		16QAM	1/0	21.38	4.08	25.46	30.00
3	1711.5	QPSK	1/14	22.16	4.08	26.24	30.00
		16QAM	1/7	21.27	4.08	25.35	30.00
	1732.5	QPSK	1/0	22.46	4.08	26.54	30.00
		16QAM	1/0	21.49	4.08	25.57	30.00
	1753.5	QPSK	1/14	22.09	4.08	26.17	30.00
		16QAM	1/14	21.23	4.08	25.31	30.00
1.4	1710.7	QPSK	1/2	22.15	4.08	26.23	30.00
		16QAM	1/0	21.30	4.08	25.38	30.00
	1732.5	QPSK	1/2	22.24	4.08	26.32	30.00
		16QAM	1/2	21.39	4.08	25.47	30.00
	1754.3	QPSK	1/2	22.07	4.08	26.15	30.00
		16QAM	1/0	21.17	4.08	25.25	30.00

7.1.7. LTE Band 25

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power(dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	EIRP Limit (dBm)
20	1860	QPSK	1/50	21.93	3.90	25.83	33.01
		16QAM	1/99	21.10	3.90	25.00	33.01
	1882.5	QPSK	1/50	22.19	3.90	26.09	33.01
		16QAM	1/99	21.23	3.90	25.13	33.01
	1905	QPSK	1/0	22.04	3.90	25.94	33.01
		16QAM	1/99	21.10	3.90	25.00	33.01
15	1857.5	QPSK	1/74	21.89	3.90	25.79	33.01
		16QAM	1/74	21.07	3.90	24.97	33.01
	1882.5	QPSK	1/36	22.22	3.90	26.12	33.01
		16QAM	1/36	21.39	3.90	25.29	33.01
	1907.5	QPSK	1/74	21.94	3.90	25.84	33.01
		16QAM	1/74	21.07	3.90	24.97	33.01
10	1855	QPSK	1/0	21.92	3.90	25.82	33.01
		16QAM	1/0	21.10	3.90	25.00	33.01
	1882.5	QPSK	1/25	22.16	3.90	26.06	33.01
		16QAM	1/49	21.26	3.90	25.16	33.01
	1910	QPSK	1/0	21.99	3.90	25.89	33.01
		16QAM	1/25	21.09	3.90	24.99	33.01
5	1852.5	QPSK	1/12	21.75	3.90	25.65	33.01
		16QAM	1/24	20.93	3.90	24.83	33.01
	1882.5	QPSK	1/24	22.17	3.90	26.07	33.01
		16QAM	1/24	21.34	3.90	25.24	33.01
	1912.5	QPSK	1/24	21.87	3.90	25.77	33.01
		16QAM	1/0	20.94	3.90	24.84	33.01
3	1851.5	QPSK	1/0	21.87	3.90	25.77	33.01
		16QAM	1/0	21.01	3.90	24.91	33.01
	1882.5	QPSK	1/14	22.17	3.90	26.07	33.01
		16QAM	1/0	21.26	3.90	25.16	33.01
	1913.5	QPSK	1/7	21.88	3.90	25.78	33.01
		16QAM	1/0	21.05	3.90	24.95	33.01
1.4	1850.7	QPSK	1/2	21.84	3.90	25.74	33.01
		16QAM	1/2	21.02	3.90	24.92	33.01
	1882.5	QPSK	1/0	21.98	3.90	25.88	33.01
		16QAM	1/5	21.13	3.90	25.03	33.01
	1914.3	QPSK	1/2	21.93	3.90	25.83	33.01
		16QAM	1/2	21.09	3.90	24.99	33.01

7.1.8. LTE Band 2

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	EIRP Limit (dBm)
20	1860	QPSK	1/99	21.84	3.90	25.74	33.01
		16QAM	1/99	21.05	3.90	24.95	33.01
	1880	QPSK	1/50	22.10	3.90	26.00	33.01
		16QAM	1/99	21.13	3.90	25.03	33.01
	1900	QPSK	1/0	21.94	3.90	25.84	33.01
		16QAM	1/99	21.05	3.90	24.95	33.01
15	1857.5	QPSK	1/74	21.82	3.90	25.72	33.01
		16QAM	1/74	20.99	3.90	24.89	33.01
	1880	QPSK	1/36	22.15	3.90	26.05	33.01
		16QAM	1/36	21.31	3.90	25.21	33.01
	1902.5	QPSK	1/74	21.91	3.90	25.81	33.01
		16QAM	1/74	20.99	3.90	24.89	33.01
10	1855	QPSK	1/0	21.88	3.90	25.78	33.01
		16QAM	1/0	21.06	3.90	24.96	33.01
	1880	QPSK	1/25	22.08	3.90	25.98	33.01
		16QAM	1/49	21.21	3.90	25.11	33.01
	1905.0	QPSK	1/0	21.91	3.90	25.81	33.01
		16QAM	1/49	21.05	3.90	24.95	33.01
5	1852.5	QPSK	1/12	21.69	3.90	25.59	33.01
		16QAM	1/12	20.85	3.90	24.75	33.01
	1880.0	QPSK	1/24	22.12	3.90	26.02	33.01
		16QAM	1/24	21.25	3.90	25.15	33.01
	1907.5	QPSK	1/24	21.80	3.90	25.70	33.01
		16QAM	1/24	20.88	3.90	24.78	33.01
3	1851.5	QPSK	1/0	21.78	3.90	25.68	33.01
		16QAM	1/0	20.95	3.90	24.85	33.01
	1880	QPSK	1/14	22.11	3.90	26.01	33.01
		16QAM	1/14	21.18	3.90	25.08	33.01
	1908.5	QPSK	1/0	21.82	3.90	25.72	33.01
		16QAM	1/0	21.01	3.90	24.91	33.01
1.4	1850.7	QPSK	1/2	21.79	3.90	25.69	33.01
		16QAM	1/2	20.93	3.90	24.83	33.01
	1882.5	QPSK	1/5	21.93	3.90	25.83	33.01
		16QAM	1/5	21.07	3.90	24.97	33.01
	1909.3	QPSK	1/2	21.90	3.90	25.80	33.01
		16QAM	1/2	21.00	3.90	24.90	33.01

7.1.9. LTE Band 38

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	EIRP Limit (dBm)
20	2580	QPSK	1/99	21.85	3.48	25.33	33.01
		16QAM	1/50	20.86	3.48	24.34	33.01
	2595	QPSK	1/50	22.02	3.48	25.50	33.01
		16QAM	1/99	21.00	3.48	24.48	33.01
	2610	QPSK	1/0	21.72	3.48	25.20	33.01
		16QAM	1/0	20.92	3.48	24.40	33.01
15	2577.5	QPSK	1/74	21.69	3.48	25.17	33.01
		16QAM	1/36	20.84	3.48	24.32	33.01
	2595	QPSK	1/36	21.95	3.48	25.43	33.01
		16QAM	1/36	21.15	3.48	24.63	33.01
	2612.5	QPSK	1/0	21.81	3.48	25.29	33.01
		16QAM	1/0	20.97	3.48	24.45	33.01
10	2575	QPSK	1/49	21.74	3.48	25.22	33.01
		16QAM	1/49	20.86	3.48	24.34	33.01
	2595	QPSK	1/25	22.06	3.48	25.54	33.01
		16QAM	1/25	21.18	3.48	24.66	33.01
	2615	QPSK	1/25	21.94	3.48	25.42	33.01
		16QAM	1/25	21.07	3.48	24.55	33.01
5	2572.5	QPSK	1/0	21.54	3.48	25.02	33.01
		16QAM	1/12	20.63	3.48	24.11	33.01
	2595	QPSK	1/12	22.00	3.48	25.48	33.01
		16QAM	1/24	21.00	3.48	24.48	33.01
	2617.5	QPSK	1/12	21.90	3.48	25.38	33.01
		16QAM	1/12	21.00	3.48	24.48	33.01

7.1.10. LTE Band 41

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	EIRP Limit (dBm)
20	2506	QPSK	1/50	22.01	3.95	25.96	33.01
		16QAM	1/50	21.01	3.95	24.96	33.01
	2593	QPSK	1/50	21.81	3.95	25.76	33.01
		16QAM	1/99	20.89	3.95	24.84	33.01
	2680	QPSK	1/50	21.53	3.95	25.48	33.01
		16QAM	1/50	20.57	3.95	24.52	33.01
15	2503.5	QPSK	1/36	21.91	3.95	25.86	33.01
		16QAM	1/36	20.94	3.95	24.89	33.01
	2593	QPSK	1/74	21.75	3.95	25.70	33.01
		16QAM	1/74	20.86	3.95	24.81	33.01
	2682.5	QPSK	1/36	21.34	3.95	25.29	33.01
		16QAM	1/36	20.47	3.95	24.42	33.01
10	2501	QPSK	1/25	21.87	3.95	25.82	33.01
		16QAM	1/25	21.10	3.95	25.05	33.01
	2593	QPSK	1/25	21.83	3.95	25.78	33.01
		16QAM	1/0	20.87	3.95	24.82	33.01
	2685	QPSK	1/0	21.42	3.95	25.37	33.01
		16QAM	1/25	20.58	3.95	24.53	33.01
5	2498.5	QPSK	1/12	21.87	3.95	25.82	33.01
		16QAM	1/12	21.03	3.95	24.98	33.01
	2593	QPSK	1/24	21.84	3.95	25.79	33.01
		16QAM	1/0	20.96	3.95	24.91	33.01
	2687.5	QPSK	1/12	21.45	3.95	25.40	33.01
		16QAM	1/12	20.58	3.95	24.53	33.01

7.1.11. LTE Band 7

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	EIRP Limit (dBm)
20	2510	QPSK	1/0	21.65	3.95	25.60	33.01
		16QAM	1/0	20.70	3.95	24.65	33.01
	2535	QPSK	1/99	21.38	3.95	25.33	33.01
		16QAM	1/99	20.46	3.95	24.41	33.01
	2560	QPSK	1/50	21.55	3.95	25.50	33.01
		16QAM	1/50	20.68	3.95	24.63	33.01
15	2507.5	QPSK	1/0	21.51	3.95	25.46	33.01
		16QAM	1/0	20.63	3.95	24.58	33.01
	2535	QPSK	1/74	21.21	3.95	25.16	33.01
		16QAM	1/0	20.37	3.95	24.32	33.01
	2562.5	QPSK	1/0	21.61	3.95	25.56	33.01
		16QAM	1/0	20.68	3.95	24.63	33.01
10	2505	QPSK	1/0	21.53	3.95	25.48	33.01
		16QAM	1/0	20.60	3.95	24.55	33.01
	2535	QPSK	1/0	21.24	3.95	25.19	33.01
		16QAM	1/0	20.42	3.95	24.37	33.01
	2565	QPSK	1/25	21.48	3.95	25.43	33.01
		16QAM	1/0	20.63	3.95	24.58	33.01
5	2502.5	QPSK	1/24	21.37	3.95	25.32	33.01
		16QAM	1/12	20.45	3.95	24.40	33.01
	2535	QPSK	1/12	21.06	3.95	25.01	33.01
		16QAM	1/12	20.16	3.95	24.11	33.01
	2567.5	QPSK	1/0	21.31	3.95	25.26	33.01
		16QAM	1/12	20.39	3.95	24.34	33.01

7.2. UNDESIRABLE EMISSIONS (Radiated)

- Test Notes

- 1) The frequency spectrum is examined from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions.
- 2) For Band below 1GHz:
Result(dBm) = Level at Substitute antenna terminal(dBm) + Substitute Antenna Gain (dBd)
For Band above 1GHz:
Result(dBm) = Level at Substitute antenna terminal(dBm) + Substitute Antenna Gain (dBi)
- 3) Limit for Band 2/4/5/12/13/25/26/66 = -13dBm
Limit for Band 7/41/38 = -25dBm
Limit for 1559 MHz ~ 1610 MHz in Band 13 = -40dBm/MHz (equivalent isotropically radiated power for wideband signals)

7.2.1. LTE Band 12

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	704	1/25	QPSK	1408.15	V	-49.77	3.04	-46.73	-13.00	33.73
				2816.65	V	-55.93	4.82	-51.11	-13.00	38.11
				3520.43	V	-55.65	6.34	-49.31	-13.00	36.31
				4224.54	V	-57.26	7.30	-49.96	-13.00	36.96
	707.5	1/25	QPSK	1415.28	V	-55.29	3.11	-52.18	-13.00	39.18
				2830.39	V	-55.29	4.88	-50.41	-13.00	37.41
				3537.61	V	-54.19	6.35	-47.84	-13.00	34.84
				4245.38	V	-56.20	7.32	-48.88	-13.00	35.88
	711	1/0	QPSK	1413.20	V	-50.46	3.09	-47.37	-13.00	34.37
				2826.87	V	-55.98	4.87	-51.11	-13.00	38.11
				3532.91	V	-55.33	6.35	-48.98	-13.00	35.98
				4239.42	V	-57.75	7.31	-50.44	-13.00	37.44

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	704	1/25	QPSK	1408.21	V	-50.02	3.04	-46.98	-13.00	33.98
				2815.97	V	-55.82	4.82	-51.00	-13.00	38.00
				3520.33	V	-55.14	6.34	-48.80	-13.00	35.80
				4224.76	V	-57.45	7.30	-50.15	-13.00	37.15

7.2.2. LTE Band 13

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	782	1/25	QPSK	3128.50	V	-55.03	5.25	-49.78	-13.00	36.78
				3910.57	V	-66.85	7.12	-59.73	-13.00	46.73
				4692.55	V	-65.07	7.72	-57.35	-13.00	44.35
5	779.5	1/24	QPSK	3126.64	V	-56.02	5.25	-50.77	-13.00	37.77
				3908.45	V	-66.28	7.12	-59.16	-13.00	46.16
				4689.86	V	-65.52	7.72	-57.80	-13.00	44.80
	784.5	1/0	QPSK	3129.35	V	-56.44	5.25	-51.19	-13.00	38.19
				3911.57	V	-66.65	7.12	-59.53	-13.00	46.53
				4694.09	V	-65.48	7.73	-57.75	-13.00	44.75

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz (LTE Band 13)

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	782	1/25	QPSK	1564.18	V	-58.41	6.04	-52.37	-40.00	12.37
5	779.5	1/24	QPSK	1563.36	V	-59.57	6.03	-53.54	-40.00	13.54
5	784.5	1/0	QPSK	1564.61	V	-59.75	6.04	-53.71	-40.00	13.71

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	782	1/25	QPSK	3128.27	V	-55.24	5.25	-49.99	-13.00	36.99
				3910.37	V	-66.86	7.12	-59.74	-13.00	46.74
				4692.41	V	-64.75	7.72	-57.03	-13.00	44.03

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz (LTE Band 13)

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	782	1/25	QPSK	1564.17	V	-58.74	6.04	-52.70	-40.00	12.70

7.2.3. LTE Band 26 (814 ~ 824 MHz)

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	819	1/25	QPSK	1638.19	V	-48.40	4.05	-44.35	-13.00	31.35
				2457.33	H	-51.85	3.98	-47.87	-13.00	34.87
				3276.40	H	-41.31	5.64	-35.67	-13.00	22.67
				4095.49	H	-53.33	7.23	-46.10	-13.00	33.10
5	816.5	1/12	QPSK	1632.98	V	-47.96	4.05	-43.91	-13.00	30.91
				2449.60	H	-54.13	4.00	-50.13	-13.00	37.13
				3266.05	H	-42.89	5.59	-37.30	-13.00	24.30
				4082.29	H	-53.88	7.21	-46.67	-13.00	33.67
	821.5	1/12	QPSK	1643.04	V	-49.56	4.06	-45.50	-13.00	32.50
				2464.88	H	-52.61	3.95	-48.66	-13.00	35.66
				3286.10	H	-41.90	5.68	-36.22	-13.00	23.22
				4107.57	H	-54.18	7.24	-46.94	-13.00	33.94

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	819	1/25	QPSK	1638.09	V	-47.91	4.05	-43.86	-13.00	30.86
				2457.33	H	-52.65	3.98	-48.67	-13.00	35.67
				3276.47	H	-41.65	5.64	-36.01	-13.00	23.01
				4095.56	H	-54.11	7.23	-46.88	-13.00	33.88

7.2.4. LTE Band 26 (824 ~ 849 MHz)

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
15	831.5	1/0	QPSK	1649.65	V	-50.95	4.06	-46.89	-13.00	33.89
				2474.78	H	-52.98	3.92	-49.06	-13.00	36.06
				3299.29	H	-44.87	5.75	-39.12	-13.00	26.12
				4124.13	H	-54.84	7.23	-47.61	-13.00	34.61
	836.5	1/36	QPSK	1672.50	V	-52.98	4.08	-48.90	-13.00	35.90
				2509.08	H	-52.46	3.83	-48.63	-13.00	35.63
				3345.29	H	-47.35	5.87	-41.48	-13.00	28.48
				4181.65	H	-54.18	7.26	-46.92	-13.00	33.92
	841.5	1/36	QPSK	1682.68	V	-52.54	4.09	-48.45	-13.00	35.45
				2523.90	H	-49.19	3.83	-45.36	-13.00	32.36
				3365.36	H	-44.91	5.95	-38.96	-13.00	25.96
				4206.45	H	-51.55	7.29	-44.26	-13.00	31.26

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
15	841.5	1/36	QPSK	1682.59	V	-53.05	4.09	-48.96	-13.00	35.96
				2524.18	H	-49.57	3.83	-45.74	-13.00	32.74
				3365.21	H	-44.96	5.95	-39.01	-13.00	26.01
				4206.53	H	-52.78	7.29	-45.49	-13.00	32.49

7.2.5. LTE Band 5

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	829	1/0	QPSK	1649.43	V	-47.87	4.06	-43.81	-13.00	30.81
				2473.80	H	-53.30	3.92	-49.38	-13.00	36.38
				3298.35	H	-43.56	5.74	-37.82	-13.00	24.82
				4122.77	H	-53.06	7.23	-45.83	-13.00	32.83
	836.5	1/49	QPSK	1682.20	V	-52.39	4.09	-48.30	-13.00	35.30
				2522.79	H	-51.36	3.83	-47.53	-13.00	34.53
				3363.70	H	-45.11	5.94	-39.17	-13.00	26.17
				4204.45	H	-52.97	7.28	-45.69	-13.00	32.69
	844	1/49	QPSK	1696.83	V	-49.23	4.10	-45.13	-13.00	32.13
				2545.11	H	-49.00	3.82	-45.18	-13.00	32.18
				3393.76	H	-44.20	6.07	-38.13	-13.00	25.13
				4241.94	H	-50.12	7.31	-42.81	-13.00	29.81

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	829	1/0	QPSK	1649.19	V	-47.99	4.06	-43.93	-13.00	30.93
				2473.85	H	-52.83	3.92	-48.91	-13.00	35.91
				3298.38	H	-43.28	5.74	-37.54	-13.00	24.54
				4122.89	H	-53.00	7.23	-45.77	-13.00	32.77

7.2.6. LTE Band 4

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1 720	1/99	QPSK	3457.73	V	-49.08	8.49	-40.59	-13.00	27.59
				5186.74	V	-44.53	10.18	-34.35	-13.00	21.35
				6915.89	V	-56.02	11.56	-44.46	-13.00	31.46
				8644.51	V	-55.60	12.93	-42.67	-13.00	29.67
	1 732.5	1/0	QPSK	3447.09	V	-47.57	8.48	-39.09	-13.00	26.09
				5170.90	V	-43.68	10.19	-33.49	-13.00	20.49
				6894.33	V	-54.79	11.54	-43.25	-13.00	30.25
				8617.92	V	-54.56	12.94	-41.62	-13.00	28.62
	1 745	1/0	QPSK	3472.23	V	-49.29	8.49	-40.80	-13.00	27.80
				5208.22	V	-45.02	10.17	-34.85	-13.00	21.85
				6944.74	V	-56.11	11.58	-44.53	-13.00	31.53
				8680.33	V	-55.72	12.94	-42.78	-13.00	29.78

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1 732.5	1/0	QPSK	3447.07	V	-46.93	8.48	-38.45	-13.00	25.45
				5170.77	V	-43.50	10.19	-33.31	-13.00	20.31
				6894.18	V	-55.02	11.54	-43.48	-13.00	30.48
				8617.73	V	-55.42	12.94	-42.48	-13.00	29.48

7.2.7. LTE Band 25

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1 860	1/50	QPSK	3720.02	H	-54.32	8.29	-46.03	-13.00	33.03
				5580.21	V	-52.72	10.60	-42.12	-13.00	29.12
				7440.42	V	-51.23	12.14	-39.09	-13.00	26.09
				9300.26	V	-52.68	13.13	-39.55	-13.00	26.55
	1 882.5	1/99	QPSK	3782.97	H	-54.84	8.42	-46.42	-13.00	33.42
				5674.44	V	-52.22	10.73	-41.49	-13.00	28.49
				7565.57	V	-51.75	12.16	-39.59	-13.00	26.59
				9456.79	V	-52.89	13.06	-39.83	-13.00	26.83
	1 905	1/0	QPSK	3792.24	H	-54.64	8.44	-46.20	-13.00	33.20
				5688.34	V	-53.05	10.76	-42.29	-13.00	29.29
				7584.15	V	-51.82	12.15	-39.67	-13.00	26.67
				9480.02	V	-52.20	13.05	-39.15	-13.00	26.15

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1 860	1/50	QPSK	3719.97	H	-54.60	8.29	-46.31	-13.00	33.31
				5580.16	V	-53.27	10.60	-42.67	-13.00	29.67
				7440.37	V	-51.65	12.14	-39.51	-13.00	26.51
				9300.71	V	-52.50	13.13	-39.37	-13.00	26.37

7.2.8. LTE Band 2

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1 860	1/50	QPSK	3720.44	H	-54.68	8.29	-46.39	-13.00	33.39
				5580.31	V	-53.51	10.60	-42.91	-13.00	29.91
				7440.53	V	-51.70	12.14	-39.56	-13.00	26.56
				9300.11	V	-53.72	13.13	-40.59	-13.00	27.59
	1 880	1/0	QPSK	3742.31	H	-54.01	8.34	-45.67	-13.00	32.67
				5613.28	V	-52.29	10.64	-41.65	-13.00	28.65
				7484.30	V	-52.02	12.17	-39.85	-13.00	26.85
				9355.33	V	-52.11	13.10	-39.01	-13.00	26.01
	1 900	1/99	QPSK	3817.75	H	-54.19	8.58	-45.61	-13.00	32.61
				5726.57	V	-53.56	10.78	-42.78	-13.00	29.78
				7635.69	V	-50.73	12.18	-38.55	-13.00	25.55
				9544.76	V	-51.70	13.13	-38.57	-13.00	25.57

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1 900	1/99	QPSK	3817.72	H	-53.59	8.58	-45.01	-13.00	32.01
				5726.73	V	-53.74	10.78	-42.96	-13.00	29.96
				7635.56	V	-50.65	12.18	-38.47	-13.00	25.47
				9544.00	V	-50.93	13.13	-37.80	-13.00	24.80

7.2.9. LTE Band 38

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	2 580	1/50	QPSK	5160.03	H	-56.45	10.19	-46.26	-25.00	21.26
				7740.32	V	-54.98	12.24	-42.74	-25.00	17.74
				10320.36	V	-48.29	13.06	-35.23	-25.00	10.23
				12900.01	V	-53.35	13.52	-39.83	-25.00	14.83
	2 595	1/50	QPSK	5172.09	H	-57.76	10.19	-47.57	-25.00	22.57
				7758.37	V	-53.52	12.28	-41.24	-25.00	16.24
				10344.36	V	-47.71	13.05	-34.66	-25.00	9.66
				12930.48	V	-53.15	13.62	-39.53	-25.00	14.53
	2 610	1/50	QPSK	5237.66	H	-57.58	10.18	-47.40	-25.00	22.40
				7856.72	V	-52.42	12.42	-40.00	-25.00	15.00
				10475.54	V	-45.76	13.11	-32.65	-25.00	7.65
				13093.93	V	-52.72	13.98	-38.74	-25.00	13.74

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	2 610	1/99	QPSK	5237.81	H	-56.04	10.18	-45.86	-25.00	20.86
				7856.65	V	-52.52	12.42	-40.10	-25.00	15.10
				10475.66	V	-46.07	13.11	-32.96	-25.00	7.96
				13094.86	V	-52.38	13.98	-38.40	-25.00	13.40

7.2.10. LTE Band 41

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	2 506	1/50	QPSK	5012.44	H	-57.32	9.95	-47.37	-25.00	22.37
				7518.19	V	-55.36	12.18	-43.18	-25.00	18.18
				10024.54	V	-48.18	12.86	-35.32	-25.00	10.32
				12530.77	V	-53.47	13.55	-39.92	-25.00	14.92
	2 593	1/50	QPSK	5186.20	H	-56.40	10.18	-46.22	-25.00	21.22
				7779.11	V	-54.04	12.31	-41.73	-25.00	16.73
				10372.30	V	-45.60	13.10	-32.50	-25.00	7.50
				12965.43	V	-52.88	13.69	-39.19	-25.00	14.19
	2 680	1/50	QPSK	5359.94	H	-56.64	10.22	-46.42	-25.00	21.42
				8040.26	V	-52.38	12.61	-39.77	-25.00	14.77
				10720.46	V	-41.40	13.22	-28.18	-25.00	3.18
				13399.32	V	-52.77	14.16	-38.61	-25.00	13.61

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	2 680	1/50	QPSK	5360.11	H	-55.88	10.22	-45.66	-25.00	20.66
				8040.03	V	-53.33	12.61	-40.72	-25.00	15.72
				10720.40	V	-41.65	13.22	-28.43	-25.00	3.43
				13399.32	V	-52.77	14.16	-38.61	-25.00	13.61

7.2.11. LTE Band 7

- DC 24 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	2 510	1/50	QPSK	5020.36	H	-57.63	9.96	-47.67	-25.00	22.67
				7530.19	V	-53.27	12.17	-41.10	-25.00	16.10
				10040.26	V	-50.50	12.85	-37.65	-25.00	12.65
				12549.57	V	-53.68	13.56	-40.12	-25.00	15.12
	2 535	1/50	QPSK	5069.92	H	-56.14	10.07	-46.07	-25.00	21.07
				7605.25	V	-54.98	12.15	-42.83	-25.00	17.83
				10140.31	V	-51.37	12.92	-38.45	-25.00	13.45
				12675.98	V	-53.35	13.50	-39.85	-25.00	14.85
	2 560	1/50	QPSK	5120.02	H	-57.52	10.16	-47.36	-25.00	22.36
				7680.19	V	-54.32	12.16	-42.16	-25.00	17.16
				10240.59	V	-52.57	13.01	-39.56	-25.00	14.56
				12799.76	V	-52.93	13.52	-39.41	-25.00	14.41

- DC 12 V

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	2510	1/50	QPSK	5019.80	H	-56.91	9.96	-46.95	-25.00	21.95
				7530.36	V	-53.09	12.17	-40.92	-25.00	15.92
				10040.49	V	-50.41	12.85	-37.56	-25.00	12.56
				12548.31	V	-53.40	13.56	-39.84	-25.00	14.84

- End of test report -