

# TEST REPORT

**Applicant:** ELPRO Technologies Pty Ltd

**Address of Applicant:** 29 Lathe Street Virginia, Queensland 4014, Australia

**Manufacturer/Factory:** ELPRO Technologies Pty Ltd

**Address of Manufacturer/Factory:** 29 Lathe Street Virginia, Queensland 4014, Australia

**Equipment Under Test (EUT)**

Product Name: Industrial Cellular 4G-LTE Router

Model No.: EL-641M-4

Trade Mark: 

**FCC ID:** O9PEL641M4

**Applicable standards:** FCC CFR Title 47 Part 2  
FCC CFR Title 47 Part 22  
FCC CFR Title 47 Part 24  
FCC CFR Title 47 Part 27  
FCC CFR Title 47 Part 90

**Date of sample receipt:** November 23, 2022

**Date of Test:** November 24, 2022-December 12, 2022

**Date of report issued:** December 12, 2022

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



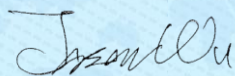
**Robinson Luo**  
**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## 2 Version

Version No.	Date	Description
00	December 12, 2022	Original

Prepared By:

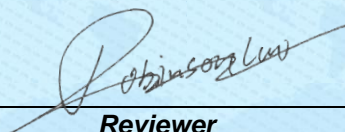


Date:

December 12, 2022

Project Engineer

Check By:



Date:

December 12, 2022

Reviewer

## 3 Contents

	Page
1 COVER PAGE .....	1
2 VERSION .....	2
3 CONTENTS .....	3
4 TEST SUMMARY .....	4
5 GENERAL INFORMATION .....	5
5.1 GENERAL DESCRIPTION OF EUT .....	5
5.2 RELATED SUBMITTAL(S) / GRANT (S) .....	8
5.3 TEST METHODOLOGY .....	8
5.4 TEST FACILITY .....	8
5.5 TEST LOCATION .....	8
6 TEST INSTRUMENTS LIST .....	9
7 SYSTEM TEST CONFIGURATION .....	10
7.1 TEST MODE .....	10
7.2 CONFIGURATION OF TESTED SYSTEM .....	10
7.3 E.R.P. & E.I.R.P. ....	11
7.4 SPURIOUS RADIATION EMISSIONS .....	35
8 TEST SETUP PHOTO .....	46
9 EUT CONSTRUCTIONAL DETAILS .....	46

## 4 Test Summary

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 22.913 (a) Part 24.232 (c) Part 27.50(h) Part 90.635(b)	Pass*
ERP & EIRP	Part 2.1046 Part 22.913 (a) Part 24.232 (c) Part 27.50(h) Part 90.635(b)	Pass
Peak-to-Average Ratio	Part 22.913 FCC part24.232 FCC Part 27.50	Pass*
Modulation Characteristics	Part 2.1047	N/A
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238 Part 27.53(h) Part 90.209	Pass*
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 Part 24.238 (a) Part 27.53(m) Part 90.691	Pass*
Spurious Radiation Emissions	Part 2.1053 Part 22.917 Part 24.238 (a) Part 27.53(m) Part 90.691	Pass
Out of band emission, Band Edge	Part 22.917 Part 24.238 (a) Part 27.53(m) Part 90.691/543	Pass*
Frequency stability vs. temperature	Part 2.1055(a)(1)(b) Part 90.213	Pass*
Frequency stability vs. voltage	Part 2.1055(d)(1)(2) Part 90.213	Pass*

Remarks:

1. Pass\*: This device has installed a certified modular which FCC ID: XMR201903EG25G, so these conducted test data directly reference the modular's data..
2. N/A: Not applicable.



## 5 General Information

### 5.1 General Description of EUT

Product Name:	Industrial Cellular 4G-LTE Router
Model No.:	EL-641M-4
Serial No.:	21105144330004
Hardware Version:	V1.0.0
Software Version:	3.0.0
Tested Sample(s) ID:	GTS202211000234-1
Sample(s) Status:	Engineer sample
Support Networks:	LTE
Support Bands:	LTE Band 2/4/5/7/12/13/25/26/38/41
Channel Bandwidth:	LTE Band 2: 1.4MHz; 3MHz; 5MHz; 10MHz; 15MHz; 20MHz LTE Band 4: 1.4MHz; 3MHz; 5MHz; 10MHz; 15MHz; 20MHz LTE Band 5: 1.4MHz; 3MHz; 5MHz; 10MHz LTE Band 7: 5MHz; 10MHz; 15MHz; 20MHz LTE Band 12: 1.4MHz; 3MHz; 5MHz; 10MHz LTE Band 13: 5MHz; 10MHz LTE Band 25: 1.4MHz; 3MHz; 5MHz; 10MHz; 15MHz; 20MHz LTE Band 26(814-824): 1.4MHz, 3MHz, 5MHz; 10MHz LTE Band 26(824-849): 1.4MHz, 3MHz, 5MHz; 10MHz, 15MHz LTE Band 38: 5MHz; 10MHz, 15MHz; 20MHz LTE Band 41: 5MHz; 10MHz, 15MHz; 20MHz
TX Frequency:	LTE band 2: 1850~1910MHz LTE band 4: 1710~1755MHz LTE band 5: 824~849MHz LTE band 7: 2500~2570MHz LTE band 12: 699~716MHz LTE band 13: 777~787MHz LTE band 25: 1850~1915MHz LTE Band 26(814-824): 814~824MHz LTE Band 26(824-849): 824~849MHz LTE Band 38: 2570~2620MHz LTE Band 41: 2496~2690.0MHz
Modulation type:	QPSK, 16QAM
Antenna type:	ANT 1: Terminal Antenna ANT 2: Mobile Antenna
Antenna gain:	ANT 1: 3dBi*2 ANT 2: 2dBi*2
Power supply:	AC/DC ADAPTER Model: SK02T-1200150U Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 12V, 1.5A

## Test Frequency

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 2	1.4M	1850.7 MHz	1880 MHz	1909.3 MHz
	3M	1851.5 MHz	1880 MHz	1908.5 MHz
	5M	1852.5 MHz	1880 MHz	1907.5 MHz
	10M	1855 MHz	1880 MHz	1905 MHz
	15M	1857.5 MHz	1880 MHz	1902.5 MHz
	20M	1860 MHz	1880 MHz	1900 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 4	1.4M	1710.7 MHz	1732.5 MHz	1754.3 MHz
	3M	1711.5 MHz	1732.5 MHz	1753.5 MHz
	5M	1712.5 MHz	1732.5 MHz	1752.5 MHz
	10M	1715 MHz	1732.5 MHz	1750 MHz
	15M	1717.5 MHz	1732.5 MHz	1747.5 MHz
	20M	1720 MHz	1732.5 MHz	1745 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 5	1.4M	824.7 MHz	836.5 MHz	848.3 MHz
	3M	825.5 MHz	836.5 MHz	847.5 MHz
	5M	826.5 MHz	836.5 MHz	846.5 MHz
	10M	829.0 MHz	836.5 MHz	844.0 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 7	5M	2502.5 MHz	2535.0 MHz	2567.5 MHz
	10M	2505.0 MHz	2535.0 MHz	2565.0 MHz
	15M	2507.5 MHz	2535.0 MHz	2562.5 MHz
	20M	2510.0 MHz	2535.0 MHz	2560.0 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 12	1.4M	699.7 MHz	707.5 MHz	715.3 MHz
	3M	700.5 MHz	707.5 MHz	714.5 MHz
	5M	701.5 MHz	707.5 MHz	713.5 MHz
	10M	704.0 MHz	707.5 MHz	711.0MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 13	5M	779.5 MHz	782 MHz	784.5 MHz
	10M	782 MHz	782 MHz	782 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 25	1.4M	1850.7 MHz	1882.5 MHz	1914.3 MHz
	3M	1851.5 MHz	1882.5 MHz	1913.5 MHz
	5M	1852.5 MHz	1882.5 MHz	1912.5 MHz
	10M	1855.0 MHz	1882.5 MHz	1910.0 MHz
	15M	1857.5 MHz	1882.5 MHz	1907.5 MHz
	20M	1860.0 MHz	1882.5 MHz	1905 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 26(814-824)	1.4M	814.7 MHz	819 MHz	823.3 MHz
	3M	815.5 MHz	819 MHz	822.5 MHz
	5M	816.5 MHz	819 MHz	821.5 MHz
	10M	819.0 MHz	819 MHz	819.0 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 26(824-849)	1.4M	824.7 MHz	836.5 MHz	848.3 MHz
	3M	825.5 MHz	836.5 MHz	847.5 MHz
	5M	826.5 MHz	836.5 MHz	846.5 MHz
	10M	829 MHz	836.5 MHz	844 MHz
	15M	831.5 MHz	836.5 MHz	841.5 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 38	5M	2572.5 MHz	2595.0 MHz	2617.5 MHz
	10M	2575.0 MHz	2595.0 MHz	2615.0 MHz
	15M	2577.5 MHz	2595.0 MHz	2612.5 MHz
	20M	2580 MHz	2595.0 MHz	2610.0 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 41	5M	2498.5 MHz	2593.0 MHz	2687.5 MHz
	10M	2501.0 MHz	2593.0 MHz	2685.0 MHz
	15M	2503.5 MHz	2593.0 MHz	2682.5 MHz
	20M	2506.0 MHz	2593.0 MHz	2680.0 MHz



## 5.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22/24/27/90 of the FCC CFR 47 Rules.

## 5.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on ANSI C63.26:2015 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

## 5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

- **IC —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A.

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

## 5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960



## 6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 02, 2020	July 01, 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 22, 2022	April 21, 2023
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 21, 2022	March 20, 2023
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June 12, 2022	June 11, 2023
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 23, 2022	June 22, 2023
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	April 22, 2022	April 21, 2023
9	Coaxial Cable	GTS	N/A	GTS211	April 22, 2022	April 21, 2023
10	Coaxial cable	GTS	N/A	GTS210	April 22, 2022	April 21, 2023
11	Coaxial Cable	GTS	N/A	GTS212	April 22, 2022	April 21, 2023
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	April 22, 2022	April 21, 2023
13	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 23, 2022	June 22, 2023
14	Band filter	Amindeon	82346	GTS219	June 23, 2022	June 22, 2023
15	Power Meter	Anritsu	ML2495A	GTS540	June 23, 2022	June 22, 2023
16	Power Sensor	Anritsu	MA2411B	GTS541	June 23, 2022	June 22, 2023
17	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 22, 2022	April 21, 2023
18	Splitter	Agilent	11636B	GTS237	June 23, 2022	June 22, 2023
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 29, 2022	Nov. 28, 2023
20	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 22, 2022	April 21, 2023
21	Breitband hornantenna	SCHWARZBECK	BBHA 9170	GTS579	Oct. 16, 2022	Oct. 15, 2023
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 16, 2022	Oct. 15, 2023
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 16, 2022	Oct. 15, 2023
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June 23, 2022	June 22, 2023
25	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 22, 2022	April 21, 2023

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	April 25, 2022	April 24, 2023
2	Barometer	KUMAO	SF132	GTS647	July 26, 2022	July 25, 2023

## 7 System test configuration

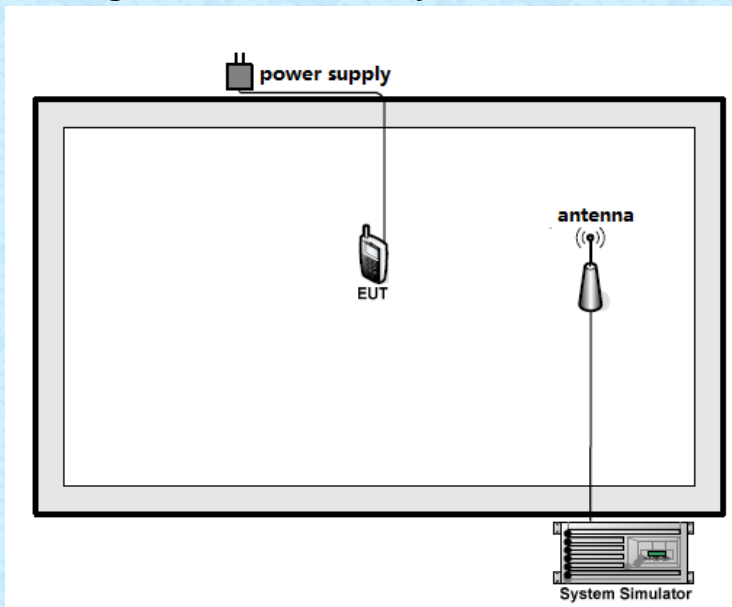
### 7.1 Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

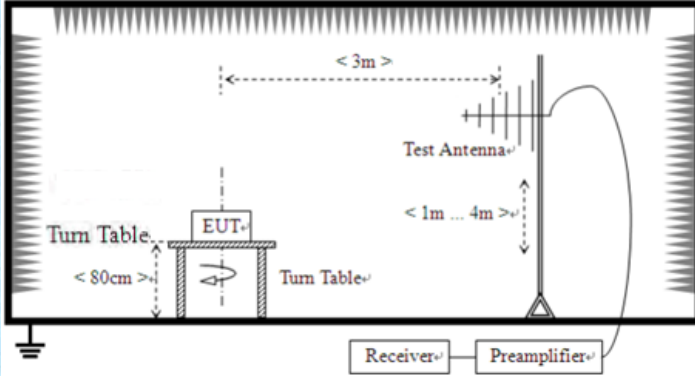
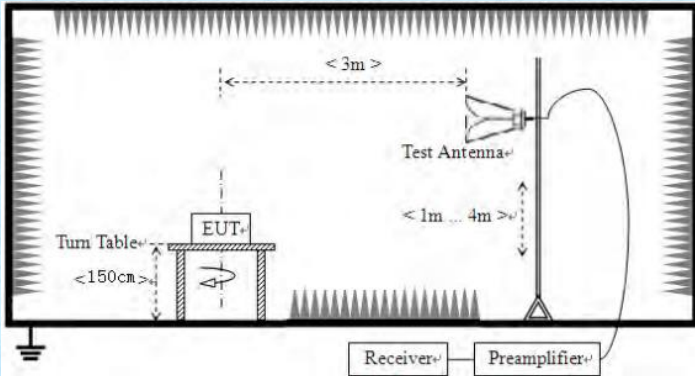
Test modes are chosen to be reported as the worst case configuration below:

Band	Test Mode
LTE Band 2	QPSK @20M, Middle channel
LTE Band 4	QPSK @20M, Middle channel
LTE Band 5	QPSK @10M, Middle channel
LTE Band 7	QPSK @20M, Middle channel
LTE Band 12	QPSK @10M, Middle channel
LTE Band 13	QPSK @10M, Middle channel
LTE Band 25	QPSK @20M, Middle channel
LTE Band 26(814-824)	QPSK @10M, Middle channel
LTE Band 26(824-849)	QPSK @10M, Middle channel
LTE Band 38	QPSK @20M, Middle channel
LTE Band 41	QPSK @20M, Middle channel

### 7.2 Configuration of Tested System



## 7.3 E.R.P. & E.I.R.P.

Test Requirement:	FCC part 22.913; Part 24.232; Part 27.50; Part 90.635
Test Method:	FCC part2.1046
Limit:	<p>LTE Band 2: 2W                  LTE Band 4: 1W                  LTE Band 5: 7W                  LTE Band 7: 2W                  LTE Band 12: 3W                  LTE Band 13: 3W                  LTE Band 25: 2W                  LTE Band 26(814-824): 7W                  LTE Band 26(824-849): 7W                  LTE Band 38: 2W                  LTE Band 41: 2W</p>
Test setup:	<p>For radiated emissions from 30MHz to1GHz</p>  <p>For radiated emissions above 1GHz</p> 
Test Procedure:	<p><b>Below 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>1.The EUT was powered ON and placed on a 0.8m high table in the chamber. The antenna of the transmitter was extended to its maximum length.</li> <li>2.The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.</li> <li>3.Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.</li> <li>4.The transmitter was then removed and replaced with another antenna.</li> </ol>



	<p>The center of the antenna was approximately at the same location as the center of the transmitter.</p> <p>5.A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.</p> <p>6.The output power into the substitution antenna was then measured.</p> <p>7.Steps 5) and 6) were repeated with both antennas polarized.</p> <p>8.Calculate power in dBm by the following formula:  <math>ERP (dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBd)}</math> Where:  Pg is the generator output power into the substitution antenna.</p> <p><b>Above 1GHz test procedure as below:</b></p> <p>1.Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber</p> <p>2.Calculate power in dBm by the following formula:  <math>EIRP(dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBi)}</math>  <math>EIRP=ERP+2.15dB</math></p> <p>Where:  Pg is the generator output power into the substitution antenna.</p> <p>3.Test the EUT in the lowest channel, the middle channel the Highest channel</p> <p>4.The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.</p> <p>5.Repeat above procedures until all frequencies measured was complete.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

## Measurement Data

### ANT 1:

Band 2					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
1.4 MHz (QPSK)	18607	Horizontal	23.39	33.00	Pass
	18900	Horizontal	23.50	33.00	Pass
	19193	Horizontal	23.15	33.00	Pass
3 MHz (QPSK)	18615	Horizontal	23.13	33.00	Pass
	18900	Horizontal	22.74	33.00	Pass
	19185	Horizontal	23.46	33.00	Pass
5 MHz (QPSK)	18625	Horizontal	23.16	33.00	Pass
	18625	Horizontal	23.33	33.00	Pass
	18900	Horizontal	23.02	33.00	Pass
10 MHz (QPSK)	19175	Horizontal	23.22	33.00	Pass
	18650	Horizontal	23.49	33.00	Pass
	18900	Horizontal	23.23	33.00	Pass
15 MHz (QPSK)	19150	Horizontal	23.13	33.00	Pass
	18675	Horizontal	22.88	33.00	Pass
	18900	Horizontal	23.36	33.00	Pass
20 MHz (QPSK)	19125	Horizontal	22.95	33.00	Pass
	18700	Horizontal	23.20	33.00	Pass
	18900	Horizontal	23.08	33.00	Pass
1.4 MHz (16QAM)	18607	Horizontal	22.21	33.00	Pass
	18900	Horizontal	22.35	33.00	Pass
	19193	Horizontal	22.01	33.00	Pass
3 MHz (16QAM)	18615	Horizontal	21.89	33.00	Pass
	18900	Horizontal	21.39	33.00	Pass
	19185	Horizontal	22.25	33.00	Pass
5 MHz (16QAM)	18625	Horizontal	21.75	33.00	Pass
	18900	Horizontal	21.90	33.00	Pass
	19175	Horizontal	21.85	33.00	Pass
10 MHz (16QAM)	18650	Horizontal	22.19	33.00	Pass
	18900	Horizontal	22.56	33.00	Pass
	19150	Horizontal	21.99	33.00	Pass
15 MHz (16QAM)	18675	Horizontal	21.87	33.00	Pass
	18900	Horizontal	21.86	33.00	Pass
	19125	Horizontal	22.08	33.00	Pass
20 MHz (16QAM)	18700	Horizontal	21.97	33.00	Pass
	18900	Horizontal	22.08	33.00	Pass
	19100	Horizontal	21.95	33.00	Pass

Band 4					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
1.4MHz(QPSK)	19957	Horizontal	22.11	30.00	Pass
	20175	Horizontal	22.44	30.00	Pass
	20393	Horizontal	21.76	30.00	Pass
3MHz(QPSK)	19965	Horizontal	21.69	30.00	Pass
	20175	Horizontal	21.11	30.00	Pass
	20385	Horizontal	22.28	30.00	Pass
5MHz(QPSK)	19975	Horizontal	21.73	30.00	Pass
	20175	Horizontal	21.94	30.00	Pass
	20375	Horizontal	21.54	30.00	Pass
10MHz(QPSK)	20000	Horizontal	21.94	30.00	Pass
	20175	Horizontal	22.43	30.00	Pass
	20350	Horizontal	21.84	30.00	Pass
15MHz(QPSK)	20025	Horizontal	21.69	30.00	Pass
	20175	Horizontal	21.25	30.00	Pass
	20325	Horizontal	22.18	30.00	Pass
20MHz(QPSK)	20050	Horizontal	21.52	30.00	Pass
	20175	Horizontal	21.81	30.00	Pass
	20300	Horizontal	21.60	30.00	Pass
1.4MHz(16QAM)	19957	Horizontal	20.93	30.00	Pass
	20175	Horizontal	21.29	30.00	Pass
	20393	Horizontal	20.62	30.00	Pass
3MHz(16QAM)	19965	Horizontal	20.45	30.00	Pass
	20175	Horizontal	19.76	30.00	Pass
	20385	Horizontal	21.07	30.00	Pass
5MHz(16QAM)	19975	Horizontal	20.32	30.00	Pass
	20175	Horizontal	20.51	30.00	Pass
	20375	Horizontal	20.37	30.00	Pass
10MHz(16QAM)	20000	Horizontal	20.91	30.00	Pass
	20175	Horizontal	21.50	30.00	Pass
	20350	Horizontal	20.60	30.00	Pass
15MHz (16QAM)	20025	Horizontal	20.43	30.00	Pass
	20175	Horizontal	20.23	30.00	Pass
	20325	Horizontal	20.90	30.00	Pass
20MHz (16QAM)	20050	Horizontal	20.54	30.00	Pass
	20175	Horizontal	20.69	30.00	Pass
	20300	Horizontal	20.47	30.00	Pass



Band 5					
Bandwidth	Channel	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
1.4 MHz (QPSK)	20407	Horizontal	21.87	38.45	Pass
	20525	Horizontal	22.33	38.45	Pass
	20643	Horizontal	22.04	38.45	Pass
3 MHz (QPSK)	20415	Horizontal	22.17	38.45	Pass
	20525	Horizontal	21.91	38.45	Pass
	20635	Horizontal	22.43	38.45	Pass
5 MHz (QPSK)	20425	Horizontal	22.12	38.45	Pass
	20525	Horizontal	21.86	38.45	Pass
	20625	Horizontal	21.79	38.45	Pass
10 MHz (QPSK)	20450	Horizontal	22.37	38.45	Pass
	20525	Horizontal	22.30	38.45	Pass
	20600	Horizontal	22.05	38.45	Pass
1.4 MHz (16QAM)	20407	Horizontal	20.69	38.45	Pass
	20525	Horizontal	20.62	38.45	Pass
	20643	Horizontal	20.98	38.45	Pass
3 MHz (16QAM)	20415	Horizontal	20.80	38.45	Pass
	20525	Horizontal	20.92	38.45	Pass
	20635	Horizontal	20.80	38.45	Pass
5 MHz (16QAM)	20425	Horizontal	20.73	38.45	Pass
	20525	Horizontal	20.93	38.45	Pass
	20625	Horizontal	20.70	38.45	Pass
10 MHz (16QAM)	20450	Horizontal	20.82	38.45	Pass
	20525	Horizontal	20.57	38.45	Pass
	20600	Horizontal	21.13	38.45	Pass

Band 7					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
5MHz(QPSK)	20775	Horizontal	24.52	33.00	Pass
	21100	Horizontal	24.83	33.00	Pass
	21425	Horizontal	24.50	33.00	Pass
10MHz(QPSK)	20800	Horizontal	24.47	33.00	Pass
	20800	Horizontal	23.54	33.00	Pass
	21100	Horizontal	24.89	33.00	Pass
15MHz(QPSK)	21400	Horizontal	24.61	33.00	Pass
	20825	Horizontal	24.63	33.00	Pass
	21100	Horizontal	24.56	33.00	Pass
20MHz(QPSK)	21375	Horizontal	24.77	33.00	Pass
	20850	Horizontal	24.82	33.00	Pass
	21100	Horizontal	24.66	33.00	Pass
5MHz(16QAM)	20775	Horizontal	23.18	33.00	Pass
	21100	Horizontal	23.08	33.00	Pass
	21425	Horizontal	23.42	33.00	Pass
10MHz(16QAM)	20800	Horizontal	23.19	33.00	Pass
	21100	Horizontal	23.47	33.00	Pass
	21400	Horizontal	23.29	33.00	Pass
15MHz (16QAM)	20825	Horizontal	23.49	33.00	Pass
	21100	Horizontal	23.66	33.00	Pass
	21375	Horizontal	23.51	33.00	Pass
20MHz (16QAM)	20850	Horizontal	23.29	33.00	Pass
	21100	Horizontal	23.24	33.00	Pass
	21350	Horizontal	23.67	33.00	Pass

Band 12					
Bandwidth	Channel	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
1.4MHz(QPSK)	23017	Horizontal	23.05	34.77	Pass
	23095	Horizontal	23.47	34.77	Pass
	23173	Horizontal	22.94	34.77	Pass
3MHz(QPSK)	23025	Horizontal	23.24	34.77	Pass
	23095	Horizontal	22.95	34.77	Pass
	23165	Horizontal	23.31	34.77	Pass
5MHz(QPSK)	23035	Horizontal	23.05	34.77	Pass
	23095	Horizontal	22.96	34.77	Pass
	23155	Horizontal	22.95	34.77	Pass
10MHz(QPSK)	23060	Horizontal	23.02	34.77	Pass
	23095	Horizontal	23.30	34.77	Pass
	23130	Horizontal	23.08	34.77	Pass
1.4MHz(16QAM)	23017	Horizontal	21.87	34.77	Pass
	23095	Horizontal	21.44	34.77	Pass
	23173	Horizontal	22.00	34.77	Pass
3MHz(16QAM)	23025	Horizontal	21.75	34.77	Pass
	23095	Horizontal	21.78	34.77	Pass
	23165	Horizontal	21.51	34.77	Pass
5MHz(16QAM)	23035	Horizontal	21.85	34.77	Pass
	23095	Horizontal	22.05	34.77	Pass
	23155	Horizontal	21.77	34.77	Pass
10MHz(16QAM)	23060	Horizontal	21.71	34.77	Pass
	23095	Horizontal	21.54	34.77	Pass
	23130	Horizontal	22.16	34.77	Pass



Band 13					
Bandwidth	Channel	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
5MHz(QPSK)	23205	Horizontal	24.70	34.77	Pass
	23230	Horizontal	24.91	34.77	Pass
	23255	Horizontal	24.53	34.77	Pass
10MHz (QPSK)	23230	Horizontal	23.05	34.77	Pass
5MHz(16QAM)	23205	Horizontal	22.78	34.77	Pass
	23230	Horizontal	23.35	34.77	Pass
	23255	Horizontal	24.47	34.77	Pass
10MHz (16QAM)	23230	Horizontal	23.21	34.77	Pass

Band25					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
1.4MHz(QPSK)	26047	Horizontal	21.70	33.00	Pass
	26365	Horizontal	22.03	33.00	Pass
	26683	Horizontal	21.67	33.00	Pass
3MHz(QPSK)	26055	Horizontal	21.99	33.00	Pass
	26365	Horizontal	21.56	33.00	Pass
	26675	Horizontal	22.42	33.00	Pass
5MHz(QPSK)	26065	Horizontal	21.92	33.00	Pass
	26365	Horizontal	22.00	33.00	Pass
	26665	Horizontal	21.99	33.00	Pass
10MHz(QPSK)	26090	Horizontal	22.27	33.00	Pass
	26365	Horizontal	22.26	33.00	Pass
	26640	Horizontal	21.47	33.00	Pass
15MHz(QPSK)	26115	Horizontal	22.15	33.00	Pass
	26365	Horizontal	21.63	33.00	Pass
	26615	Horizontal	21.88	33.00	Pass
20MHz(QPSK)	26140	Horizontal	22.07	33.00	Pass
	26365	Horizontal	21.69	33.00	Pass
	26590	Horizontal	21.98	33.00	Pass
1.4MHz(16QAM)	26047	Horizontal	22.24	33.00	Pass
	26365	Horizontal	22.48	33.00	Pass
	26683	Horizontal	22.14	33.00	Pass
3MHz(16QAM)	26055	Horizontal	22.29	33.00	Pass
	26365	Horizontal	22.10	33.00	Pass
	26675	Horizontal	22.59	33.00	Pass
5MHz(16QAM)	26065	Horizontal	22.18	33.00	Pass
	26365	Horizontal	21.95	33.00	Pass
	26665	Horizontal	22.24	33.00	Pass
10MHz(16QAM)	26090	Horizontal	22.62	33.00	Pass
	26365	Horizontal	22.65	33.00	Pass
	26640	Horizontal	22.36	33.00	Pass
15MHz (16QAM)	26115	Horizontal	22.52	33.00	Pass
	26365	Horizontal	22.08	33.00	Pass
	26615	Horizontal	22.82	33.00	Pass
20MHz (16QAM)	26140	Horizontal	22.43	33.00	Pass
	26365	Horizontal	22.50	33.00	Pass
	26590	Horizontal	22.36	33.00	Pass

Band 26(814-824)					
Bandwidth	Channel	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
1.4 MHz (QPSK)	26697	Horizontal	22.12	38.45	Pass
	26740	Horizontal	22.51	38.45	Pass
	26783	Horizontal	22.05	38.45	Pass
3 MHz (QPSK)	26705	Horizontal	22.10	38.45	Pass
	26740	Horizontal	21.95	38.45	Pass
	26775	Horizontal	22.44	38.45	Pass
5 MHz (QPSK)	26715	Horizontal	22.00	38.45	Pass
	26740	Horizontal	22.03	38.45	Pass
	26765	Horizontal	21.82	38.45	Pass
10 MHz (QPSK)	26740	Horizontal	22.14	38.45	Pass
1.4 MHz (16QAM)	20407	Horizontal	21.13	38.45	Pass
	20525	Horizontal	20.82	38.45	Pass
	20643	Horizontal	20.84	38.45	Pass
3 MHz (16QAM)	20415	Horizontal	20.55	38.45	Pass
	20525	Horizontal	21.18	38.45	Pass
	20635	Horizontal	20.67	38.45	Pass
5 MHz (16QAM)	20425	Horizontal	20.72	38.45	Pass
	20525	Horizontal	20.77	38.45	Pass
	20625	Horizontal	20.85	38.45	Pass
10 MHz (16QAM)	20450	Horizontal	21.28	38.45	Pass



Band 26 (824-849)					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
1.4MHz(QPSK)	26797	Horizontal	22.21	38.45	Pass
	26915	Horizontal	22.75	38.45	Pass
	27033	Horizontal	22.17	38.45	Pass
3MHz(QPSK)	26805	Horizontal	22.26	38.45	Pass
	26915	Horizontal	22.10	38.45	Pass
	27025	Horizontal	22.62	38.45	Pass
5MHz(QPSK)	26815	Horizontal	22.09	38.45	Pass
	26915	Horizontal	22.24	38.45	Pass
	27015	Horizontal	22.17	38.45	Pass
10MHz(QPSK)	26840	Horizontal	22.36	38.45	Pass
	26915	Horizontal	22.49	38.45	Pass
	26990	Horizontal	22.28	38.45	Pass
15MHz(QPSK)	26865	Horizontal	22.33	38.45	Pass
	26915	Horizontal	21.95	38.45	Pass
	26965	Horizontal	22.46	38.45	Pass
1.4MHz(16QAM)	26797	Horizontal	21.03	38.45	Pass
	26915	Horizontal	21.21	38.45	Pass
	27033	Horizontal	20.98	38.45	Pass
3MHz(16QAM)	26805	Horizontal	21.14	38.45	Pass
	26915	Horizontal	21.36	38.45	Pass
	27025	Horizontal	21.02	38.45	Pass
5MHz(16QAM)	26815	Horizontal	20.97	38.45	Pass
	26915	Horizontal	20.61	38.45	Pass
	27015	Horizontal	21.22	38.45	Pass
10MHz(16QAM)	26840	Horizontal	20.99	38.45	Pass
	26915	Horizontal	21.31	38.45	Pass
	26990	Horizontal	21.05	38.45	Pass
15MHz (16QAM)	26865	Horizontal	21.05	38.45	Pass
	26915	Horizontal	21.49	38.45	Pass
	26965	Horizontal	21.06	38.45	Pass

Band 38					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
5MHz(QPSK)	37775	Horizontal	24.17	33.00	Pass
	38000	Horizontal	24.35	33.00	Pass
	38225	Horizontal	23.99	33.00	Pass
10MHz(QPSK)	37800	Horizontal	24.24	33.00	Pass
	38000	Horizontal	23.81	33.00	Pass
	38200	Horizontal	24.14	33.00	Pass
15MHz(QPSK)	37825	Horizontal	24.17	33.00	Pass
	38000	Horizontal	24.08	33.00	Pass
	38175	Horizontal	23.94	33.00	Pass
20MHz(QPSK)	37850	Horizontal	24.26	33.00	Pass
	38000	Horizontal	24.32	33.00	Pass
	38150	Horizontal	24.11	33.00	Pass
5MHz(16QAM)	37775	Horizontal	22.65	33.00	Pass
	38000	Horizontal	22.37	33.00	Pass
	38225	Horizontal	22.83	33.00	Pass
10MHz(16QAM)	37800	Horizontal	22.75	33.00	Pass
	38000	Horizontal	22.76	33.00	Pass
	38200	Horizontal	22.52	33.00	Pass
15MHz (16QAM)	37825	Horizontal	22.99	33.00	Pass
	38000	Horizontal	23.10	33.00	Pass
	38175	Horizontal	22.94	33.00	Pass
20MHz (16QAM)	37850	Horizontal	22.82	33.00	Pass
	38000	Horizontal	22.35	33.00	Pass
	38150	Horizontal	23.05	33.00	Pass

Band 41					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
5MHz(QPSK)	39675	Horizontal	25.14	33.00	Pass
	40620	Horizontal	25.40	33.00	Pass
	41565	Horizontal	25.03	33.00	Pass
10MHz(QPSK)	39700	Horizontal	25.17	33.00	Pass
	40620	Horizontal	24.85	33.00	Pass
	41540	Horizontal	25.39	33.00	Pass
15MHz(QPSK)	39725	Horizontal	24.97	33.00	Pass
	40620	Horizontal	25.10	33.00	Pass
	41515	Horizontal	25.00	33.00	Pass
20MHz(QPSK)	39750	Horizontal	25.05	33.00	Pass
	40620	Horizontal	25.33	33.00	Pass
	41490	Horizontal	25.09	33.00	Pass
5MHz(16QAM)	39675	Horizontal	23.67	33.00	Pass
	40620	Horizontal	23.40	33.00	Pass
	41565	Horizontal	23.96	33.00	Pass
10MHz(16QAM)	39700	Horizontal	23.73	33.00	Pass
	40620	Horizontal	23.85	33.00	Pass
	41540	Horizontal	23.69	33.00	Pass
15MHz (16QAM)	39725	Horizontal	23.87	33.00	Pass
	40620	Horizontal	24.25	33.00	Pass
	41515	Horizontal	23.73	33.00	Pass
20MHz (16QAM)	39750	Horizontal	23.52	33.00	Pass
	40620	Horizontal	23.57	33.00	Pass
	41490	Horizontal	23.95	33.00	Pass



**ANT 2:**

Band 2					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
1.4 MHz (QPSK)	18607	Horizontal	22.50	33.00	Pass
	18900	Horizontal	22.48	33.00	Pass
	19193	Horizontal	22.18	33.00	Pass
3 MHz (QPSK)	18615	Horizontal	22.27	33.00	Pass
	18900	Horizontal	21.83	33.00	Pass
	19185	Horizontal	22.47	33.00	Pass
5 MHz (QPSK)	18625	Horizontal	22.27	33.00	Pass
	18625	Horizontal	22.31	33.00	Pass
	18900	Horizontal	22.13	33.00	Pass
10 MHz (QPSK)	19175	Horizontal	22.33	33.00	Pass
	18650	Horizontal	22.47	33.00	Pass
	18900	Horizontal	22.26	33.00	Pass
15 MHz (QPSK)	19150	Horizontal	22.27	33.00	Pass
	18675	Horizontal	21.97	33.00	Pass
	18900	Horizontal	22.37	33.00	Pass
20 MHz (QPSK)	19125	Horizontal	22.06	33.00	Pass
	18700	Horizontal	22.18	33.00	Pass
	18900	Horizontal	22.19	33.00	Pass
1.4 MHz (16QAM)	18607	Horizontal	21.32	33.00	Pass
	18900	Horizontal	21.33	33.00	Pass
	19193	Horizontal	21.04	33.00	Pass
3 MHz (16QAM)	18615	Horizontal	21.03	33.00	Pass
	18900	Horizontal	20.48	33.00	Pass
	19185	Horizontal	21.26	33.00	Pass
5 MHz (16QAM)	18625	Horizontal	20.86	33.00	Pass
	18900	Horizontal	20.88	33.00	Pass
	19175	Horizontal	20.96	33.00	Pass
10 MHz (16QAM)	18650	Horizontal	21.30	33.00	Pass
	18900	Horizontal	21.54	33.00	Pass
	19150	Horizontal	21.02	33.00	Pass
15 MHz (16QAM)	18675	Horizontal	21.01	33.00	Pass
	18900	Horizontal	20.95	33.00	Pass
	19125	Horizontal	21.09	33.00	Pass
20 MHz (16QAM)	18700	Horizontal	21.08	33.00	Pass
	18900	Horizontal	21.06	33.00	Pass
	19100	Horizontal	21.06	33.00	Pass

Band 4					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
1.4MHz(QPSK)	19957	Horizontal	21.22	30.00	Pass
	20175	Horizontal	21.42	30.00	Pass
	20393	Horizontal	20.79	30.00	Pass
3MHz(QPSK)	19965	Horizontal	20.83	30.00	Pass
	20175	Horizontal	20.20	30.00	Pass
	20385	Horizontal	21.29	30.00	Pass
5MHz(QPSK)	19975	Horizontal	20.84	30.00	Pass
	20175	Horizontal	20.92	30.00	Pass
	20375	Horizontal	20.65	30.00	Pass
10MHz(QPSK)	20000	Horizontal	21.05	30.00	Pass
	20175	Horizontal	21.41	30.00	Pass
	20350	Horizontal	20.87	30.00	Pass
15MHz(QPSK)	20025	Horizontal	20.83	30.00	Pass
	20175	Horizontal	20.34	30.00	Pass
	20325	Horizontal	21.19	30.00	Pass
20MHz(QPSK)	20050	Horizontal	20.63	30.00	Pass
	20175	Horizontal	20.79	30.00	Pass
	20300	Horizontal	20.71	30.00	Pass
1.4MHz(16QAM)	19957	Horizontal	20.04	30.00	Pass
	20175	Horizontal	20.27	30.00	Pass
	20393	Horizontal	19.65	30.00	Pass
3MHz(16QAM)	19965	Horizontal	19.59	30.00	Pass
	20175	Horizontal	18.85	30.00	Pass
	20385	Horizontal	20.08	30.00	Pass
5MHz(16QAM)	19975	Horizontal	19.43	30.00	Pass
	20175	Horizontal	19.49	30.00	Pass
	20375	Horizontal	19.48	30.00	Pass
10MHz(16QAM)	20000	Horizontal	20.02	30.00	Pass
	20175	Horizontal	20.48	30.00	Pass
	20350	Horizontal	19.63	30.00	Pass
15MHz (16QAM)	20025	Horizontal	19.57	30.00	Pass
	20175	Horizontal	19.32	30.00	Pass
	20325	Horizontal	19.91	30.00	Pass
20MHz (16QAM)	20050	Horizontal	19.65	30.00	Pass
	20175	Horizontal	19.67	30.00	Pass
	20300	Horizontal	19.58	30.00	Pass

Band 5					
Bandwidth	Channel	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
1.4 MHz (QPSK)	20407	Horizontal	20.98	38.45	Pass
	20525	Horizontal	21.31	38.45	Pass
	20643	Horizontal	21.07	38.45	Pass
3 MHz (QPSK)	20415	Horizontal	21.31	38.45	Pass
	20525	Horizontal	21.00	38.45	Pass
	20635	Horizontal	21.44	38.45	Pass
5 MHz (QPSK)	20425	Horizontal	21.23	38.45	Pass
	20525	Horizontal	20.84	38.45	Pass
	20625	Horizontal	20.90	38.45	Pass
10 MHz (QPSK)	20450	Horizontal	21.48	38.45	Pass
	20525	Horizontal	21.28	38.45	Pass
	20600	Horizontal	21.08	38.45	Pass
1.4 MHz (16QAM)	20407	Horizontal	19.83	38.45	Pass
	20525	Horizontal	19.71	38.45	Pass
	20643	Horizontal	19.99	38.45	Pass
3 MHz (16QAM)	20415	Horizontal	19.91	38.45	Pass
	20525	Horizontal	19.90	38.45	Pass
	20635	Horizontal	19.91	38.45	Pass
5 MHz (16QAM)	20425	Horizontal	19.84	38.45	Pass
	20525	Horizontal	19.91	38.45	Pass
	20625	Horizontal	19.73	38.45	Pass
10 MHz (16QAM)	20450	Horizontal	19.96	38.45	Pass
	20525	Horizontal	19.66	38.45	Pass
	20600	Horizontal	20.14	38.45	Pass



Band 7					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
5MHz(QPSK)	20775	Horizontal	23.63	33.00	Pass
	21100	Horizontal	23.81	33.00	Pass
	21425	Horizontal	23.53	33.00	Pass
10MHz(QPSK)	20800	Horizontal	23.61	33.00	Pass
	20800	Horizontal	22.63	33.00	Pass
	21100	Horizontal	23.90	33.00	Pass
15MHz(QPSK)	21400	Horizontal	23.72	33.00	Pass
	20825	Horizontal	23.61	33.00	Pass
	21100	Horizontal	23.67	33.00	Pass
20MHz(QPSK)	21375	Horizontal	23.88	33.00	Pass
	20850	Horizontal	23.80	33.00	Pass
	21100	Horizontal	23.69	33.00	Pass
5MHz(16QAM)	20775	Horizontal	22.32	33.00	Pass
	21100	Horizontal	22.17	33.00	Pass
	21425	Horizontal	22.43	33.00	Pass
10MHz(16QAM)	20800	Horizontal	22.30	33.00	Pass
	21100	Horizontal	22.45	33.00	Pass
	21400	Horizontal	22.40	33.00	Pass
15MHz (16QAM)	20825	Horizontal	22.60	33.00	Pass
	21100	Horizontal	22.64	33.00	Pass
	21375	Horizontal	22.54	33.00	Pass
20MHz (16QAM)	20850	Horizontal	22.43	33.00	Pass
	21100	Horizontal	22.33	33.00	Pass
	21350	Horizontal	22.68	33.00	Pass

Band 12					
Bandwidth	Channel	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
1.4MHz(QPSK)	23017	Horizontal	22.16	34.77	Pass
	23095	Horizontal	22.45	34.77	Pass
	23173	Horizontal	21.97	34.77	Pass
3MHz(QPSK)	23025	Horizontal	22.38	34.77	Pass
	23095	Horizontal	22.04	34.77	Pass
	23165	Horizontal	22.32	34.77	Pass
5MHz(QPSK)	23035	Horizontal	22.16	34.77	Pass
	23095	Horizontal	21.94	34.77	Pass
	23155	Horizontal	22.06	34.77	Pass
10MHz(QPSK)	23060	Horizontal	22.13	34.77	Pass
	23095	Horizontal	22.28	34.77	Pass
	23130	Horizontal	22.11	34.77	Pass
1.4MHz(16QAM)	23017	Horizontal	21.01	34.77	Pass
	23095	Horizontal	20.53	34.77	Pass
	23173	Horizontal	21.01	34.77	Pass
3MHz(16QAM)	23025	Horizontal	20.86	34.77	Pass
	23095	Horizontal	20.76	34.77	Pass
	23165	Horizontal	20.62	34.77	Pass
5MHz(16QAM)	23035	Horizontal	20.96	34.77	Pass
	23095	Horizontal	21.03	34.77	Pass
	23155	Horizontal	20.80	34.77	Pass
10MHz(16QAM)	23060	Horizontal	20.85	34.77	Pass
	23095	Horizontal	20.63	34.77	Pass
	23130	Horizontal	21.17	34.77	Pass

Band 13					
Bandwidth	Channel	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
5MHz(QPSK)	23205	Horizontal	23.81	34.77	Pass
	23230	Horizontal	23.89	34.77	Pass
	23255	Horizontal	23.56	34.77	Pass
10MHz (QPSK)	23230	Horizontal	22.19	34.77	Pass
5MHz(16QAM)	23205	Horizontal	21.87	34.77	Pass
	23230	Horizontal	22.36	34.77	Pass
	23255	Horizontal	23.58	34.77	Pass
10MHz (16QAM)	23230	Horizontal	22.19	34.77	Pass



Band25					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
1.4MHz(QPSK)	26047	Horizontal	20.81	33.00	Pass
	26365	Horizontal	21.01	33.00	Pass
	26683	Horizontal	20.70	33.00	Pass
3MHz(QPSK)	26055	Horizontal	21.13	33.00	Pass
	26365	Horizontal	20.65	33.00	Pass
	26675	Horizontal	21.43	33.00	Pass
5MHz(QPSK)	26065	Horizontal	21.03	33.00	Pass
	26365	Horizontal	20.98	33.00	Pass
	26665	Horizontal	21.10	33.00	Pass
10MHz(QPSK)	26090	Horizontal	21.38	33.00	Pass
	26365	Horizontal	21.24	33.00	Pass
	26640	Horizontal	20.50	33.00	Pass
15MHz(QPSK)	26115	Horizontal	21.29	33.00	Pass
	26365	Horizontal	20.72	33.00	Pass
	26615	Horizontal	20.89	33.00	Pass
20MHz(QPSK)	26140	Horizontal	21.18	33.00	Pass
	26365	Horizontal	20.67	33.00	Pass
	26590	Horizontal	21.09	33.00	Pass
1.4MHz(16QAM)	26047	Horizontal	21.35	33.00	Pass
	26365	Horizontal	21.46	33.00	Pass
	26683	Horizontal	21.17	33.00	Pass
3MHz(16QAM)	26055	Horizontal	21.43	33.00	Pass
	26365	Horizontal	21.19	33.00	Pass
	26675	Horizontal	21.60	33.00	Pass
5MHz(16QAM)	26065	Horizontal	21.29	33.00	Pass
	26365	Horizontal	20.93	33.00	Pass
	26665	Horizontal	21.35	33.00	Pass
10MHz(16QAM)	26090	Horizontal	21.73	33.00	Pass
	26365	Horizontal	21.63	33.00	Pass
	26640	Horizontal	21.39	33.00	Pass
15MHz (16QAM)	26115	Horizontal	21.66	33.00	Pass
	26365	Horizontal	21.17	33.00	Pass
	26615	Horizontal	21.83	33.00	Pass
20MHz (16QAM)	26140	Horizontal	21.54	33.00	Pass
	26365	Horizontal	21.48	33.00	Pass
	26590	Horizontal	21.47	33.00	Pass

Band 26(814-824)					
Bandwidth	Channel	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
1.4 MHz (QPSK)	26697	Horizontal	21.23	38.45	Pass
	26740	Horizontal	21.49	38.45	Pass
	26783	Horizontal	21.08	38.45	Pass
3 MHz (QPSK)	26705	Horizontal	21.24	38.45	Pass
	26740	Horizontal	21.04	38.45	Pass
	26775	Horizontal	21.45	38.45	Pass
5 MHz (QPSK)	26715	Horizontal	21.11	38.45	Pass
	26740	Horizontal	21.01	38.45	Pass
	26765	Horizontal	20.93	38.45	Pass
10 MHz (QPSK)	26740	Horizontal	21.25	38.45	Pass
1.4 MHz (16QAM)	20407	Horizontal	20.11	38.45	Pass
	20525	Horizontal	19.85	38.45	Pass
	20643	Horizontal	19.98	38.45	Pass
3 MHz (16QAM)	20415	Horizontal	19.64	38.45	Pass
	20525	Horizontal	20.19	38.45	Pass
	20635	Horizontal	19.78	38.45	Pass
5 MHz (16QAM)	20425	Horizontal	19.70	38.45	Pass
	20525	Horizontal	19.88	38.45	Pass
	20625	Horizontal	19.96	38.45	Pass
10 MHz (16QAM)	20450	Horizontal	20.26	38.45	Pass

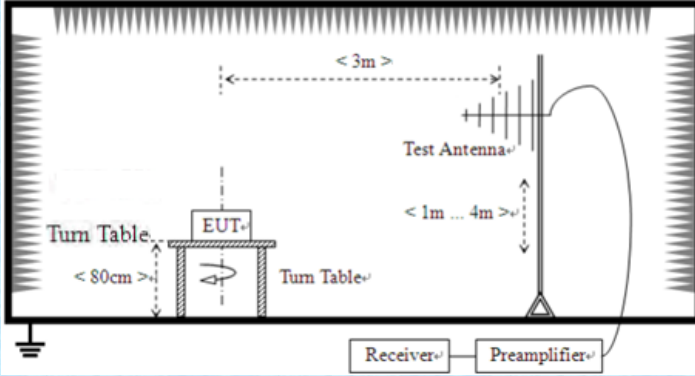
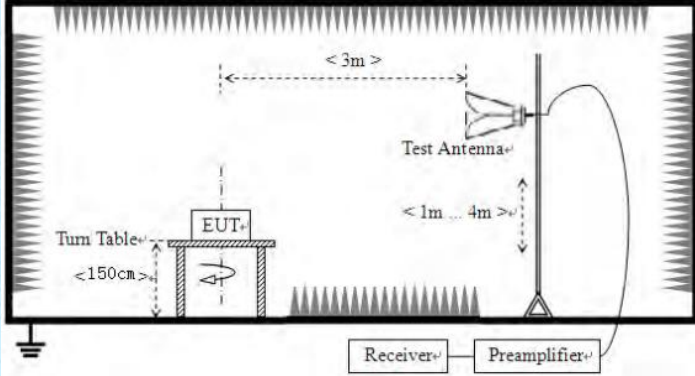
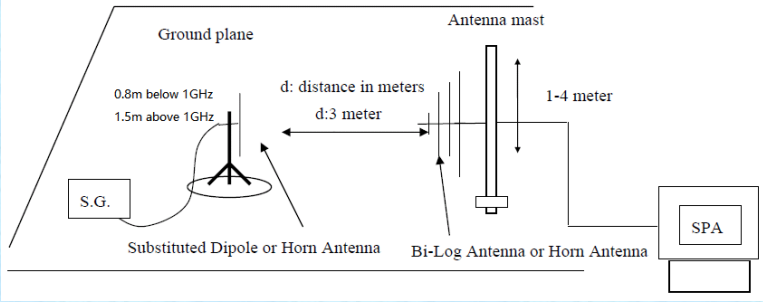
Band 26 (824-849)					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
1.4MHz(QPSK)	26797	Horizontal	21.32	38.45	Pass
	26915	Horizontal	21.73	38.45	Pass
	27033	Horizontal	21.20	38.45	Pass
3MHz(QPSK)	26805	Horizontal	21.40	38.45	Pass
	26915	Horizontal	21.19	38.45	Pass
	27025	Horizontal	21.63	38.45	Pass
5MHz(QPSK)	26815	Horizontal	21.20	38.45	Pass
	26915	Horizontal	21.22	38.45	Pass
	27015	Horizontal	21.28	38.45	Pass
10MHz(QPSK)	26840	Horizontal	21.47	38.45	Pass
	26915	Horizontal	21.47	38.45	Pass
	26990	Horizontal	21.31	38.45	Pass
15MHz(QPSK)	26865	Horizontal	21.47	38.45	Pass
	26915	Horizontal	21.04	38.45	Pass
	26965	Horizontal	21.47	38.45	Pass
1.4MHz(16QAM)	26797	Horizontal	20.14	38.45	Pass
	26915	Horizontal	20.19	38.45	Pass
	27033	Horizontal	20.09	38.45	Pass
3MHz(16QAM)	26805	Horizontal	20.25	38.45	Pass
	26915	Horizontal	20.34	38.45	Pass
	27025	Horizontal	20.05	38.45	Pass
5MHz(16QAM)	26815	Horizontal	20.11	38.45	Pass
	26915	Horizontal	19.70	38.45	Pass
	27015	Horizontal	20.23	38.45	Pass
10MHz(16QAM)	26840	Horizontal	20.10	38.45	Pass
	26915	Horizontal	20.29	38.45	Pass
	26990	Horizontal	20.16	38.45	Pass
15MHz (16QAM)	26865	Horizontal	20.16	38.45	Pass
	26915	Horizontal	20.47	38.45	Pass
	26965	Horizontal	20.09	38.45	Pass



Band 38					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
5MHz(QPSK)	37775	Horizontal	23.28	33.00	Pass
	38000	Horizontal	23.33	33.00	Pass
	38225	Horizontal	23.02	33.00	Pass
10MHz(QPSK)	37800	Horizontal	23.38	33.00	Pass
	38000	Horizontal	22.90	33.00	Pass
	38200	Horizontal	23.15	33.00	Pass
15MHz(QPSK)	37825	Horizontal	23.28	33.00	Pass
	38000	Horizontal	23.06	33.00	Pass
	38175	Horizontal	23.05	33.00	Pass
20MHz(QPSK)	37850	Horizontal	23.37	33.00	Pass
	38000	Horizontal	23.30	33.00	Pass
	38150	Horizontal	23.14	33.00	Pass
5MHz(16QAM)	37775	Horizontal	21.79	33.00	Pass
	38000	Horizontal	21.46	33.00	Pass
	38225	Horizontal	21.84	33.00	Pass
10MHz(16QAM)	37800	Horizontal	21.86	33.00	Pass
	38000	Horizontal	21.74	33.00	Pass
	38200	Horizontal	21.63	33.00	Pass
15MHz (16QAM)	37825	Horizontal	22.10	33.00	Pass
	38000	Horizontal	22.08	33.00	Pass
	38175	Horizontal	21.97	33.00	Pass
20MHz (16QAM)	37850	Horizontal	21.96	33.00	Pass
	38000	Horizontal	21.44	33.00	Pass
	38150	Horizontal	22.06	33.00	Pass

Band 41					
Bandwidth	Channel	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
5MHz(QPSK)	39675	Horizontal	24.25	33.00	Pass
	40620	Horizontal	24.38	33.00	Pass
	41565	Horizontal	24.06	33.00	Pass
10MHz(QPSK)	39700	Horizontal	24.31	33.00	Pass
	40620	Horizontal	23.94	33.00	Pass
	41540	Horizontal	24.40	33.00	Pass
15MHz(QPSK)	39725	Horizontal	24.08	33.00	Pass
	40620	Horizontal	24.08	33.00	Pass
	41515	Horizontal	24.11	33.00	Pass
20MHz(QPSK)	39750	Horizontal	24.16	33.00	Pass
	40620	Horizontal	24.31	33.00	Pass
	41490	Horizontal	24.12	33.00	Pass
5MHz(16QAM)	39675	Horizontal	22.81	33.00	Pass
	40620	Horizontal	22.49	33.00	Pass
	41565	Horizontal	22.97	33.00	Pass
10MHz(16QAM)	39700	Horizontal	22.84	33.00	Pass
	40620	Horizontal	22.83	33.00	Pass
	41540	Horizontal	22.80	33.00	Pass
15MHz (16QAM)	39725	Horizontal	22.98	33.00	Pass
	40620	Horizontal	23.23	33.00	Pass
	41515	Horizontal	22.76	33.00	Pass
20MHz (16QAM)	39750	Horizontal	22.66	33.00	Pass
	40620	Horizontal	22.66	33.00	Pass
	41490	Horizontal	22.96	33.00	Pass

## 7.4 Spurious Radiation Emissions

Test Requirement:	Part 22.917; Part 24.238; Part 27.53; Part 90.691/543
Test Method:	FCC part 2.1053 and ANSI C63.26:2015
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass



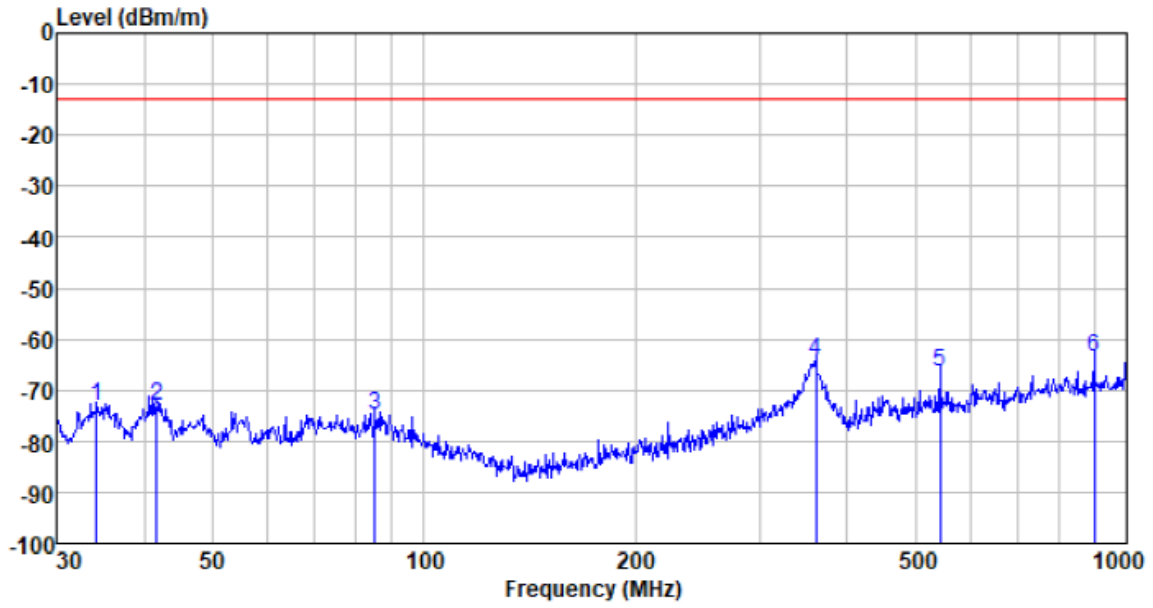
**Measurement Data:**

**Below 1GHz**

Pre-scan all test modes, found worst case at Band 2, and so only show the test result of it

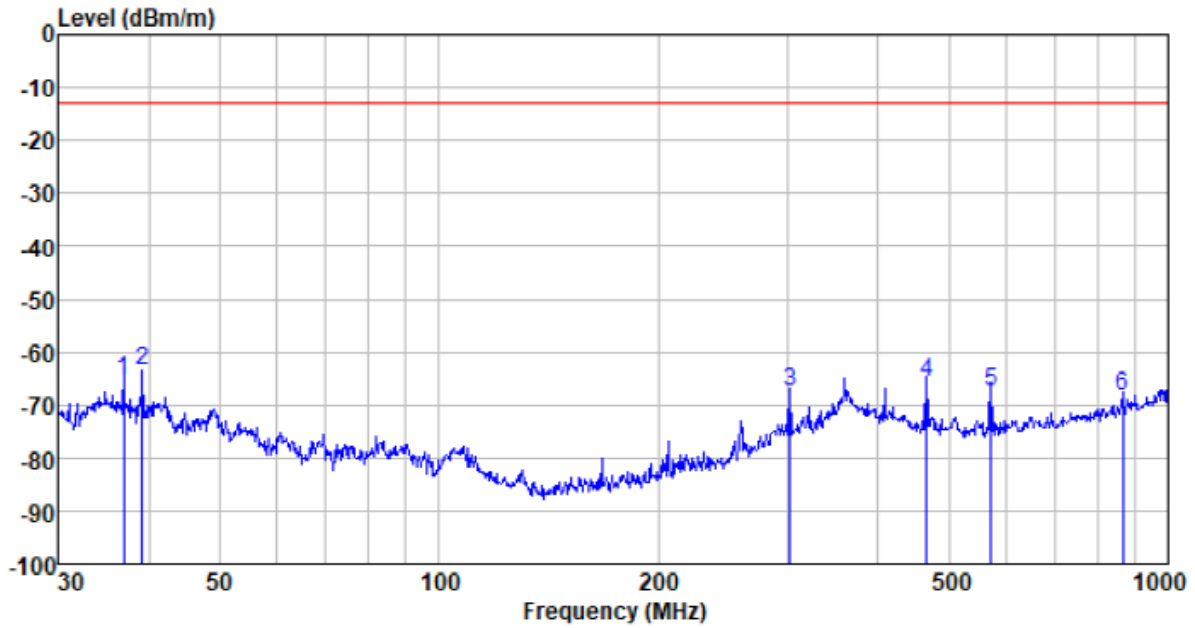
**ANT 1:**

**Horizontal:**



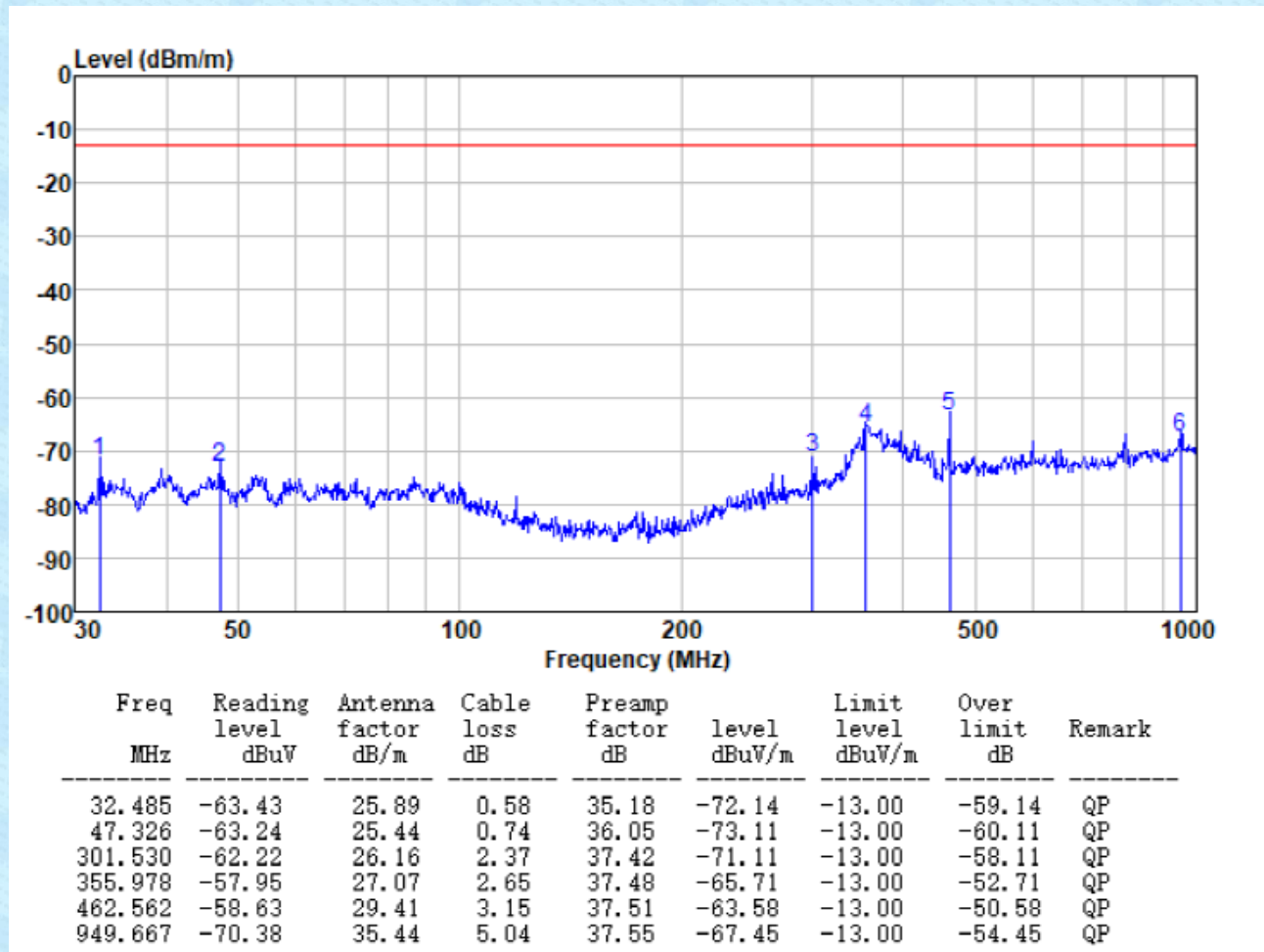
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
34.207	-64.42	25.89	0.60	35.30	-73.23	-13.00	-60.23	QP
41.593	-63.35	25.44	0.68	35.75	-72.98	-13.00	-59.98	QP
85.079	-60.91	21.65	1.07	36.59	-74.78	-13.00	-61.78	QP
361.270	-56.36	27.07	2.68	37.48	-64.09	-13.00	-51.09	QP
542.073	-63.03	30.70	3.49	37.52	-66.36	-13.00	-53.36	QP
898.546	-64.95	34.26	4.85	37.60	-63.44	-13.00	-50.44	QP

Vertical:



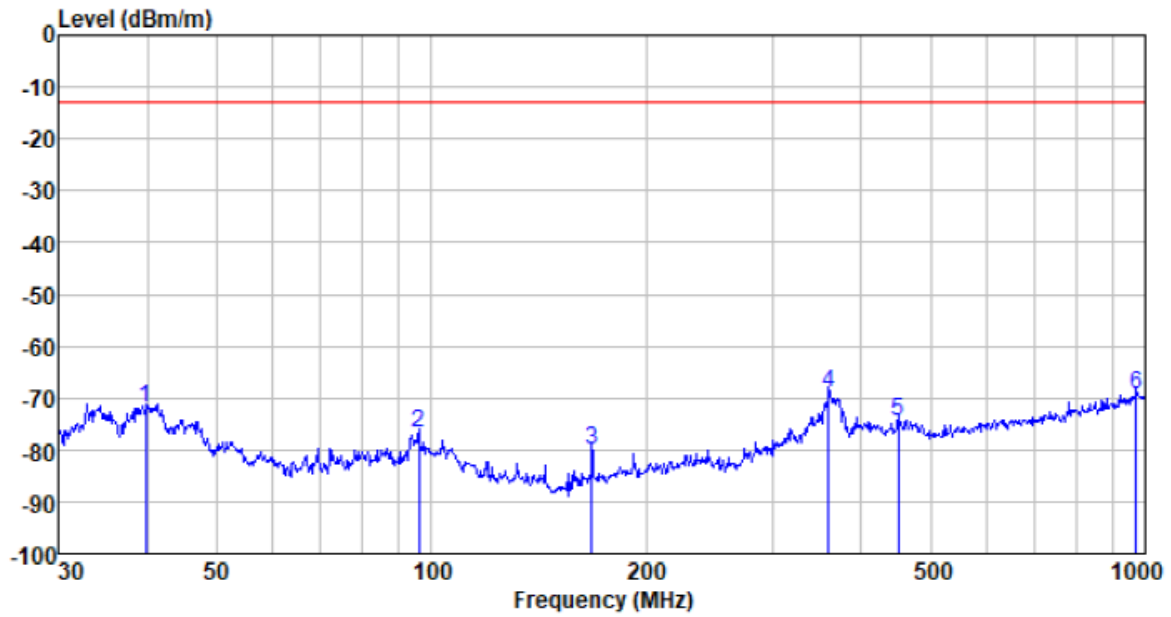
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
36.962	-56.19	25.89	0.63	35.48	-65.15	-13.00	-52.15	QP
39.210	-54.09	25.44	0.65	35.62	-63.62	-13.00	-50.62	QP
302.644	-58.75	26.16	2.37	37.42	-67.64	-13.00	-54.64	QP
465.987	-60.64	29.41	3.16	37.51	-65.58	-13.00	-52.58	QP
570.804	-64.70	31.11	3.60	37.53	-67.52	-13.00	-54.52	QP
866.004	-69.52	34.05	4.73	37.61	-68.35	-13.00	-55.35	QP

**ANT 2:**  
Horizontal:





Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.792	-62.49	25.44	0.66	35.65	-72.04	-13.00	-59.04	QP
96.093	-66.47	25.13	1.16	36.69	-76.87	-13.00	-63.87	QP
167.727	-66.92	22.36	1.67	37.18	-80.07	-13.00	-67.07	QP
359.939	-61.15	27.07	2.67	37.48	-68.89	-13.00	-55.89	QP
450.770	-69.12	28.93	3.09	37.51	-74.61	-13.00	-61.61	QP
970.920	-72.71	35.81	5.12	37.54	-69.32	-13.00	-56.32	QP

Above 1GHz

ANT 1:

LTE Band 2 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	EIRP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	3760	H	-46.05	13.13	3.9	-36.82	-13	-23.82
	5640	H	-51.29	11.62	5.33	-45	-13	-32.00
	7520	H	-47.06	10.22	6.82	-43.66	-13	-30.66
	3760	V	-48.12	13.13	3.9	-38.89	-13	-25.89
	5640	V	-48.62	11.62	5.33	-42.33	-13	-29.33
	7520	V	-47.9	10.22	6.82	-44.5	-13	-31.50

LTE Band 4 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	EIRP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	3465	H	-47.91	8.96	3.71	-42.66	-13	-29.66
	5197.5	H	-44.44	10.11	4.99	-39.32	-13	-26.32
	6930	H	-50.41	10.37	6.18	-46.22	-13	-33.22
	3465	V	-50.3	8.96	3.71	-45.05	-13	-32.05
	5197.5	V	-51.99	10.11	4.99	-46.87	-13	-33.87
	6930	V	-47.26	10.37	6.18	-43.07	-13	-30.07

LTE Band 5 @10MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	1673	H	-49.38	6.74	2.39	-47.18	-13	-34.18
	2509.5	H	-45.08	8.94	3.03	-41.32	-13	-28.32
	3346	H	-51.23	10.62	3.63	-46.39	-13	-33.39
	1673	V	-49.17	6.74	2.39	-46.97	-13	-33.97
	2509.5	V	-49.51	8.94	3.03	-45.75	-13	-32.75
	3346	V	-44.04	10.62	3.63	-39.2	-13	-26.20

LTE Band 7 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	EIRP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	2535	H	-48.07	8.65	3.69	-43.11	-25	-18.11
	5070	H	-42.87	10.51	5.01	-37.37	-25	-12.37
	7605	H	-51.53	10.32	6.05	-47.26	-25	-22.26
	2535	V	-51.57	9.85	3.69	-45.41	-25	-20.41
	5070	V	-52.11	10.35	4.86	-46.62	-25	-21.62
	7605	V	-54.87	10.38	6.15	-50.64	-25	-25.64

LTE Band 12 @10MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	1415	H	-49.49	6.81	2.4	-45.08	-13	-32.08
	2122.5	H	-45.19	8.99	3.08	-39.28	-13	-26.28
	2830	H	-51.34	10.68	3.65	-44.31	-13	-31.31
	1415	V	-49.28	6.79	2.43	-44.92	-13	-31.92
	2122.5	V	-49.62	9.01	3.1	-43.71	-13	-30.71
	2830	V	-44.15	10.65	3.68	-37.18	-13	-24.18

LTE Band 13 @10MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	1564	H	-49.60	6.91	2.41	-45.1	-13	-32.10
	2346	H	-45.30	8.99	3.09	-39.4	-13	-26.40
	3128	H	-51.45	10.69	3.65	-44.41	-13	-31.41
	1564	V	-49.39	6.81	2.44	-45.02	-13	-32.02
	2346	V	-49.73	9.06	3.1	-43.77	-13	-30.77
	3128	V	-44.26	10.66	3.68	-37.28	-13	-24.28

LTE Band 25 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	3765	H	-47.95	8.91	3.71	-42.75	-13	-29.75
	5647.5	H	-42.52	10.12	4.99	-37.39	-13	-24.39
	7530	H	-51.29	10.38	6.18	-47.09	-13	-34.09
	3765	V	-51.36	8.96	3.71	-46.11	-13	-33.11
	5647.5	V	-52.09	10.12	4.91	-46.88	-13	-33.88
	7530	V	-47.46	10.37	6.18	-43.27	-13	-30.27

LTE Band 26(814-824) @10MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	1638	H	-49.73	6.89	2.35	-45.19	-13	-32.19
	2457	H	-44.41	8.91	3.1	-38.60	-13	-25.6
	3276	H	-50.26	10.68	3.66	-43.24	-13	-30.24
	1638	V	-48.69	6.98	2.45	-44.16	-13	-31.16
	2457	V	-49.09	9.15	3.12	-43.06	-13	-30.06
	3276	V	-43.69	10.65	3.69	-36.73	-13	-23.73



LTE Band 26(824-849) @10MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	1673	H	-49.84	6.9	2.36	-45.3	-13	-32.3
	2509.5	H	-44.52	8.92	3.1	-38.70	-13	-25.7
	3346	H	-50.37	10.68	3.66	-43.35	-13	-30.35
	1673	V	-48.80	6.98	2.46	-44.28	-13	-31.28
	2509.5	V	-49.20	9.14	3.12	-43.18	-13	-30.18
	3346	V	-43.80	10.65	3.7	-36.85	-13	-23.85

LTE Band 38 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	2595	H	-45.07	8.86	3.69	-39.9	-13	-26.9
	5190	H	-44.79	10.15	5.01	-39.65	-13	-26.65
	7785	H	-46.53	10.35	6.21	-42.39	-13	-29.39
	2595	V	-45.76	9.84	3.73	-39.65	-13	-26.65
	5190	V	-44.79	10.35	4.9	-39.34	-13	-26.34
	7785	V	-43.26	10.38	6.15	-39.03	-13	-26.03

LTE Band 41 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	5186	H	-46.13	8.96	3.78	-40.95	-13	-27.95
	7779	H	-42.66	10.05	5.02	-37.63	-13	-24.63
	10372	H	-48.36	10.21	6.25	-44.4	-13	-31.4
	5186	V	-48.46	8.9	3.81	-43.37	-13	-30.37
	7779	V	-50.22	10.15	5.03	-45.1	-13	-32.1
	10372	V	-45.48	10.35	6.19	-41.32	-13	-28.32

**ANT 2:**

LTE Band 2 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	EIRP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	3760	H	-47.51	13.13	3.9	-38.28	-13	-25.28
	5640	H	-53.94	11.62	5.33	-47.65	-13	-34.65
	7520	H	-43.6	10.22	6.82	-40.2	-13	-27.2
	3760	V	-52.38	13.13	3.9	-43.15	-13	-30.15
	5640	V	-43.07	11.62	5.33	-36.78	-13	-23.78
	7520	V	-45.45	10.22	6.82	-42.05	-13	-29.05

LTE Band 4 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	EIRP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	3465	H	-49.37	8.96	3.71	-44.12	-13	-31.12
	5197.5	H	-47.09	10.11	4.99	-41.97	-13	-28.97
	6930	H	-46.95	10.37	6.18	-42.76	-13	-29.76
	3465	V	-54.56	8.96	3.71	-49.31	-13	-36.31
	5197.5	V	-46.44	10.11	4.99	-41.32	-13	-28.32
	6930	V	-44.81	10.37	6.18	-40.62	-13	-27.62

LTE Band 5 @10MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	1673	H	-50.84	6.74	2.39	-46.49	-13	-33.49
	2509.5	H	-47.73	8.94	3.03	-41.82	-13	-28.82
	3346	H	-47.77	10.62	3.63	-40.78	-13	-27.78
	1673	V	-53.43	6.74	2.39	-49.08	-13	-36.08
	2509.5	V	-43.96	8.94	3.03	-38.05	-13	-25.05
	3346	V	-41.59	10.62	3.63	-34.6	-13	-21.6

LTE Band 7 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	EIRP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	2535	H	-49.53	8.65	3.69	-44.57	-13	-31.57
	5070	H	-45.52	10.51	5.01	-40.02	-13	-27.02
	7605	H	-48.07	10.32	6.05	-43.8	-13	-30.8
	2535	V	-55.83	9.85	3.69	-49.67	-13	-36.67
	5070	V	-46.56	10.35	4.86	-41.07	-13	-28.07
	7605	V	-52.42	10.38	6.15	-48.19	-13	-35.19

LTE Band 12 @10MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	1415	H	-50.95	6.81	2.4	-46.54	-13	-33.54
	2122.5	H	-47.84	8.99	3.08	-41.93	-13	-28.93
	2830	H	-47.88	10.68	3.65	-40.85	-13	-27.85
	1415	V	-53.54	6.79	2.43	-49.18	-13	-36.18
	2122.5	V	-44.07	9.01	3.1	-38.16	-13	-25.16
	2830	V	-41.7	10.65	3.68	-34.73	-13	-21.73

LTE Band 13 @10MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	1564	H	-51.06	6.91	2.41	-46.56	-13	-33.56
	2346	H	-47.95	8.99	3.09	-42.05	-13	-29.05
	3128	H	-47.99	10.69	3.65	-40.95	-13	-27.95
	1564	V	-53.65	6.81	2.44	-49.28	-13	-36.28
	2346	V	-44.18	9.06	3.1	-38.22	-13	-25.22
	3128	V	-41.81	10.66	3.68	-34.83	-13	-21.83

LTE Band 25 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	3765	H	-49.41	8.91	3.71	-44.21	-13	-31.21
	5647.5	H	-45.17	10.12	4.99	-40.04	-13	-27.04
	7530	H	-47.83	10.38	6.18	-43.63	-13	-30.63
	3765	V	-55.62	8.96	3.71	-50.37	-13	-37.37
	5647.5	V	-46.54	10.12	4.91	-41.33	-13	-28.33
	7530	V	-45.01	10.37	6.18	-40.82	-13	-27.82

LTE Band 26(814-824) @10MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	1638	H	-51.19	6.89	2.35	-46.65	-13	-33.65
	2457	H	-47.06	8.91	3.1	-41.25	-13	-28.25
	3276	H	-46.8	10.68	3.66	-39.78	-13	-26.78
	1638	V	-52.95	6.98	2.45	-48.42	-13	-35.42
	2457	V	-43.54	9.15	3.12	-37.51	-13	-24.51
	3276	V	-41.24	10.65	3.69	-34.28	-13	-21.28



LTE Band 26(824-849) @10MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	1673	H	-51.3	6.9	2.36	-46.76	-13	-33.76
	2509.5	H	-47.17	8.92	3.1	-41.35	-13	-28.35
	3346	H	-46.91	10.68	3.66	-39.89	-13	-26.89
	1673	V	-53.06	6.98	2.46	-48.54	-13	-35.54
	2509.5	V	-43.65	9.14	3.12	-37.63	-13	-24.63
	3346	V	-41.35	10.65	3.7	-34.4	-13	-21.4

LTE Band 38 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	2595	H	-46.53	8.86	3.69	-41.36	-13	-28.36
	5190	H	-47.44	10.15	5.01	-42.3	-13	-29.3
	7785	H	-43.07	10.35	6.21	-38.93	-13	-25.93
	2595	V	-50.02	9.84	3.73	-43.91	-13	-30.91
	5190	V	-39.24	10.35	4.9	-33.79	-13	-20.79
	7785	V	-40.81	10.38	6.15	-36.58	-13	-23.58

LTE Band 41 @20MHz								
Channel	Frequency (MHz)	Polarization	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	ERP (dBm)	Limit (dBm)	Over Limit (dBm)
Middle	5186	H	-47.59	8.96	3.78	-42.41	-13	-29.41
	7779	H	-45.31	10.05	5.02	-40.28	-13	-27.28
	10372	H	-44.9	10.21	6.25	-40.94	-13	-27.94
	5186	V	-52.72	8.9	3.81	-47.63	-13	-34.63
	7779	V	-44.67	10.15	5.03	-39.55	-13	-26.55
	10372	V	-43.03	10.35	6.19	-38.87	-13	-25.87

## **8 Test Setup Photo**

Reference to the **appendix I** for details.

## **9 EUT Constructional Details**

Reference to the **appendix II** for details.

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