RF TEST REPORT

Report No.: DDT-B24042312-1E04

Applicant	**:**	Rhino Sp. z o o
Applicant Address	**:**	Strzegomska 140A，54-429 Wrocław，Poland
Equipment Under Test	**:**	Smart Metering Gateway
Model No.	**:**	Rhino AP GSM
Trade Mark	**:**	N/A
Contains FCC ID	**:**	XMR201906EG21G
Manufacturer	**:**	Rhino Sp. z o o
Manufacturer Address	**:**	Strzegomska 140A，54-429 Wrocław，Poland

Issued By: Tianjin Dongdian Testing Service Co., Ltd.

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REPORT

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Test Report Declare

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Address	:	Strzegomska 140A，54-429 Wrocław，Poland

Test Standard Used:
FCC Rules and Regulations: 47 CFR Part2, Part22, Part24, Part27, Part90
Test Procedure Used:
ANSI C63.26:2015, KDB 971168 D01, KDB 996369 D04

We Declare:
The equipment described above is tested by Tianjin Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Tianjin Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-B24042312-1E04		
Date of Receipt:	May. 14, 2024	**Date of Test:**	May. 14, 2024~ Jun. 26, 2024

Prepared By: ***Approved By:***

Novak Wei Aaron Zhang

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Novak Wei/Engineer ***Aaron Zhang/Manager***

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jun. 27, 2024	

1. Summary of Test Results

1.1. LTE Band2

Summary of Test Results			
Test Item	**Standard**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power	FCC §2.1046, §24.232	EIRP: ≤2W	Pass
Peak-to-Average Ratio	FCC §2.1046, §24.232	Limit: ≤13dB	Pass[1]
Modulation Characteristics	FCC §2.1047	Digital modulation	Pass[1]
Occupied Bandwidth	§2.1049	No limit	Pass[1]
Band Edges Compliance	FCC §2.1051, §24.238	Limit: ≤ P(dBm)- [43 + 10 log(P (w))] dBm/1Mhz	Pass[1]
Spurious Emission at Antenna Terminals	FCC §2.1051, §24.238	Limit: ≤ P(dBm)- [43 + 10 log(P (w))] dBm/1Mhz	Pass[1]
Field Strength of Spurious Radiation	FCC §2.1053, §24.238	Limit: ≤ P(dBm)- [43 + 10 log(P (w))] dBm/1Mhz	Pass
Frequency Stability	FCC §2.1055, §24.235	Emission must remain in band	Pass[1]
Note 1: The above “pass[1]” items data are refer from the module original report.			

1.2. LTE Band4

Summary of Test Results			
Test Item	**Standard**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power	FCC §2.1046, §27.50	EIRP: ≤1W	Pass
Peak-to-Average Ratio	FCC §2.1046, §27.50	Limit: ≤13dB	Pass[1]
Modulation Characteristics	FCC §2.1047	Digital modulation	Pass[1]
Occupied Bandwidth	FCC §2.1049	No limit	Pass[1]
Band Edges Compliance	FCC §2.1051, §27.53	Limit: ≤ P(dBm)- [43 + 10 log(P (w))] dBm/1MHz	Pass[1]
Spurious Emission at Antenna Terminals	FCC §2.1051, §27.53	Limit: ≤ P(dBm)- [43 + 10 log(P (w))] dBm/1MHz	Pass[1]
Field Strength of Spurious Radiation	FCC §2.1053, §27.53	Limit: ≤ P(dBm)- [43 + 10 log(P (w))] dBm/1MHz	Pass
Frequency Stability	FCC §2.1055, §27.54	Emission must remain in band	Pass[1]
Note 1: The above “pass[1]” items data are refer from the module original report.			

1.3. LTE Band12

Summary of Test Results			
Test Item	**Standard**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power	FCC §2.1046, §27.50	ERP: ≤3W	Pass
Peak-to-Average Ratio	FCC §2.1046, §27.50	Limit: ≤13dB	Pass[1]
Modulation Characteristics	FCC §2.1047	Digital modulation	Pass[1]
Occupied Bandwidth	FCC §2.1049	No limit	Pass[1]
Band Edges Compliance	FCC §2.1051, §27.53	Limit: ≤ P(dBm)- [43 + 10 log(P (w))] dBm/100KHz	Pass[1]
Spurious Emission at Antenna Terminals	FCC §2.1051, §27.53	Limit: ≤ P(dBm)- [43 + 10 log(P (w))] dBm/100KHz	Pass[1]
Field Strength of Spurious Radiation	FCC §2.1053, §27.53	Limit: ≤ P(dBm)- [43 + 10 log(P (w))] dBm/100KHz	Pass
Frequency Stability	FCC §2.1055, §27.54	Emission must remain in band	Pass[1]
Note 1: The above "pass[1]" items data are refer from the module original report.			

1.4. LTE Band13

Summary of Test Results			
Test Item	**Standard**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power	FCC §2.1046, §27.50	ERP: ≤3W	Pass
Peak-to-Average Ratio	FCC §2.1046, §27.50	Limit: ≤13dB	Pass[1]
Modulation Characteristics	FCC §2.1047	Digital modulation	Pass[1]
Occupied Bandwidth	FCC §2.1049	No limit	Pass[1]
Band Edges Compliance	FCC§2.1051, §27.53	Limit: 1)≤ P(dBm)- [43 + 10 log(P (w))] dBm/100kHz on any frequency outside the 776-788 MHz band. 2)≤ P(dBm)- [65 + 10 log(P (w))] dBm/6.25kHz on all frequencies between 763-775 MHz and 793-805 MHz 3)EIRP: ≤-70dBW/MHz (wideband) on1559-1610MHz. 4)EIRP:≤-80dBW(narrowband <700Hz) on1559-1610MHz.	Pass[1]
Spurious Emission at Antenna Terminals	FCC §2.1051, §27.53	Limit: 1)≤ P(dBm)- [43 + 10 log(P (w))] dBm/100kHz on any frequency outside the 776-788 MHz band. 2)≤ P(dBm)- [65 + 10 log(P (w))] dBm/6.25kHz on all frequencies between 763-775 MHz and	Pass[1]

		793-805 MHz 3)EIRP: ≤-70dBW/MHz (wideband) on1559-1610MHz. 4)EIRP:≤-80dBW(narrowband <700Hz) on1559-1610MHz.	
Field Strength of Spurious Radiation	FCC §2.1053, §27.53	Limit: 1)≤ P(dBm)- [43 + 10 log(P (w))] dBm/100kHz on any frequency outside the 776-788 MHz band. 2)≤ P(dBm)- [65 + 10 log(P (w))] dBm/6.25kHz on all frequencies between 763-775 MHz and 793-805 MHz 3)EIRP: ≤-70dBW/MHz (wideband) on1559-1610MHz. 4)EIRP:≤-80dBW(narrowband <700Hz) on1559-1610MHz.	Pass
Frequency Stability	FCC §2.1055, §27.54	Emission must remain in band	Pass[1]
Note 1: The above “pass[1]” items data are refer from the module original report.			

2. General Test Information

2.1. Description of EUT

EUT Description	:	Smart Metering Gateway									
Model Number	:	Rhino AP GSM									
Trade Mark	:	N/A									
Serial Number	:	N/A									
Hardware Version	:	2.1									
Software Version	:	0.1.211									
Sample Type	:	mobile Device									
Frequency band	:	E-UTRA LTE	Duplex Mode	Tx (MHz)	Rx (MHz)	Supported Channel Bandwidth					
						1.4	3	5	10	15	20
		Band 2	FDD	1850-1910	1930-1990	☒	☒	☒	☒	☒	☒
		Band 4	FDD	1710-1755	2110-2155	☒	☒	☒	☒	☒	☒
		Band 12	FDD	699-716	729-746	☒	☒	☒	☒	---	---
		Band 13	FDD	777-787	746-756	---	---	☒	☒	---	---
Target Power & Power Class	:	LTE Band 2(PC3): 25dBm LTE Band 4(PC3): 25dBm LTE Band 12(PC3): 25dBm LTE Band 13(PC3): 25dBm									
Type of modulation	:	E-UTRA	LTE: QPSK, 16QAM								
Antenna Gain	:	Peak Gain 2.0 dBi									
Power Supply	:	DC 5V-12V									

Note: EUT is the abbreviation of equipment under test.

2.2. RF Channel Information

E-UTRA Band	Transmitter/ Receiver	Channel Bandwidth	Frequencies Under Test		
			Lowest range(L)	Middle range(M)	Highest range(H)
Band 2	Transmitter	1.4MHz	Channel 18607 (1850.7MHz)	Channel 18900 (1880MHz)	Channel 19193 (1909.3MHz)
		3MHz	Channel 18615 (1851.5MHz)	Channel 18900 (1880MHz)	Channel 19185 (1908.5MHz)
		5MHz	Channel 18625 (1852.5MHz)	Channel 18900 (1880MHz)	Channel 19175 (1907.5MHz)
		10MHz	Channel 18650 (1855MHz)	Channel 18900 (1880MHz)	Channel 19150 (1905MHz)
		15MHz	Channel 18675 (1857.5MHz)	Channel 18900 (1880MHz)	Channel 19125 (1902.5MHz)
		20MHz	Channel 18700 (1860MHz)	Channel 18900 (1880MHz)	Channel 19100 (1900MHz)
	Receiver	1.4MHz	Channel 607 (1930.7MHz)	Channel 900 (1960MHz)	Channel 1193 (1989.3MHz)
		3MHz	Channel 615 (1931.5MHz)	Channel 900 (1960MHz)	Channel 1185 (1988.5MHz)
		5MHz	Channel 625 (1932.5MHz)	Channel 900 (1960MHz)	Channel 1175 (1987.5MHz)
		10MHz	Channel 650 (1935MHz)	Channel 900 (1960MHz)	Channel 1150 (1985MHz)
		15MHz	Channel 675 (1937.5MHz)	Channel 900 (1960MHz)	Channel 1125 (1982.5MHz)
		20MHz	Channel 700 (1940MHz)	Channel 900 (1960MHz)	Channel 1100 (1980MHz)
Band 4	Transmitter	1.4MHz	Channel 19957 (1710.7MHz)	Channel 20175 (1732.5MHz)	Channel 20393 (1754.3MHz)
		3MHz	Channel 19965 (1711.5MHz)	Channel 20175 (1732.5MHz)	Channel 20385 (1753.5MHz)
		5MHz	Channel 19975 (1712.5MHz)	Channel 20175 (1732.5MHz)	Channel 20375 (1752.5MHz)
		10MHz	Channel 20000 (1715MHz)	Channel 20175 (1732.5MHz)	Channel 20350 (1750MHz)
		15MHz	Channel 20025 (1717.5 MHz)	Channel 20175 (1732.5MHz)	Channel 20325 (1747.5MHz)
		20MHz	Channel 20050 (1720 MHz)	Channel 20175 (1732.5MHz)	Channel 20300 (1745MHz)
	Receiver	1.4MHz	Channel 1957 (2110.7MHz)	Channel 2175 (2132.5MHz)	Channel 2393 (2154.3MHz)
		3MHz	Channel 1965 (2111.5MHz)	Channel 2175 (2132.5MHz)	Channel 2385 (2153.5MHz)
		5MHz	Channel 1975 (2112.5MHz)	Channel 2175 (2132.5MHz)	Channel 2375 (2152.5MHz)
		10MHz	Channel 2000 (2115MHz)	Channel 2175 (2132.5MHz)	Channel 2350 (2150MHz)
		15MHz	Channel 2025 (2117.5MHz)	Channel 2175 (2132.5MHz)	Channel 2325 (2147.5MHz)

		20MHz	Channel 2050 (2120MHz)	Channel 2175 (2132.5MHz)	Channel 2300 (2145MHz)
Band 12	Transmitter	1.4MHz	Channel 23017 (699.7MHz)	Channel 23095 (707.5MHz)	Channel 23173 (715.3MHz)
		3MHz	Channel 23025 (700.5MHz)	Channel 23095 (707.5MHz)	Channel 23165 (714.5MHz)
		5MHz	Channel 23035 (701.5MHz)	Channel 23095 (707.5MHz)	Channel 23155 (713.5MHz)
		10MHz	Channel 23060 (704MHz)	Channel 23095 (707.5MHz)	Channel 23130 (711MHz)
	Receiver	1.4MHz	Channel 5017 (729.7MHz)	Channel 5095 (737.5MHz)	Channel 5173 (745.3MHz)
		3MHz	Channel 5025 (730.5MHz)	Channel 5095 (737.5MHz)	Channel 5165 (744.5MHz)
		5MHz	Channel 5035 (731.5MHz)	Channel 5095 (737.5MHz)	Channel 5155 (743.5MHz)
		10MHz	Channel 5060 (734MHz)	Channel 5095 (737.5MHz)	Channel 5130 (741MHz)
Band 13	Transmitter	5MHz	Channel 23205 (779.5MHz)	Channel 23230 (782MHz)	Channel 23255 (784.5MHz)
		10MHz	Channel 23230 (782MHz)	Channel 23230 (782MHz)	Channel 23230 (782MHz)
	Receiver	5MHz	Channel 5205 (748.5MHz)	Channel 5230 (751MHz)	Channel 5255 (753.5MHz)
		10MHz	Channel 5230 (751MHz)	Channel 5230 (751MHz)	Channel 5230 (751MHz)

2.3. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

2.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Notebook	Lenovo Beijing Co. Ltd.	ThinkPad T450	FCC/CE	SL10H72009

2.5. Block diagram of EUT configuration for test

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Condition	Normal Condition	Extreme Condition
Pressure range	86-106KPa	N/A
Relative Humidity	30-75%	N/A
Temperature(℃)	NT: 25℃	N/A
Voltage(V)	NV: 5-12V	N/A

Note: N/A: Not Applicable
NV: Normal Voltage NT: Normal Temperature
LV: Low Extreme Test Voltage LT: Low Extreme Test Temperature
HV: High Extreme Test Voltage HT: High Extreme Test Temperature

2.7. Worst-case Configuration and Test Mode

2.7.1. Worst-case Radiated test

-The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.

-All modes of operation were investigated and the worst-case configuration results are reports. In the case of radiated spurious emissions, only result that confirmed the maximum radiated power was reported

-The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.

-All modes of operation were tested and the worst case results are reported.

-Below table show the test details:

Test Item	Test Mode	Band	Channel	Modulation	Bandwidth
Field Strength of Spurious Radiation	Mode1	LTE Band 2	M	QPSK/16QAM	1.4/3/5/10/15/20MHz
	Mode2	LTE Band 4	M	QPSK/16QAM	1.4/3/5/10/15/20MHz
	Mode3	LTE Band 12	M	QPSK/16QAM	1.4/3/5/10MHz
	Mode4	LTE Band 13	M	QPSK/16QAM	5/10MHz
	Mode5	LTE Band 2+ISM 1+ISM 2	M	QPSK/16QAM+ 2GFSK	1.4/3/5/10/15/20MHz
	Mode6	LTE Band 4+ISM 1+ISM 2	M	QPSK/16QAM+ 2GFSK	1.4/3/5/10/15/20MHz
	Mode7	LTE Band 12+ISM 1+ISM 2	M	QPSK/16QAM	1.4/3/5/10MHz
	Mode8	LTE Band 13+ISM 1+ISM 2	M	QPSK/16QAM	5/10MHz

2.8. Test laboratory

Tianjin Dongdian Testing Service Co., Ltd.

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Tel: +86-22-58038033, http://www.ddttest.com, Email: ddt@dgddt.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

3. Description of Tests

3.1. Radiated Power (ERP/EIRP)

Test Procedure: FCC KDB 971168 D01 V03r01.

Note: Refer test setup 1.

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

a) The transmitter antenna port was connected to a Base Station Simulator through the calibrated coaxial cable.

b) Setup the Base Station Simulator to force the transmitter to the maximum power setting.

3) The tests were performed at three channels (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP (dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB

3.2. Field Strength of Spurious Radiation

Test Procedure: FCC KDB 971168 D01 V03r01.

Note: Refer test setup 2.

a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.

b) Each emission under consideration shall be evaluated:

1) Raise and lower the measurement antenna, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.

2) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.

3) Return the turntable to the azimuth where the highest emission amplitude level was observed.

4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.

c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum

emissions amplitude.

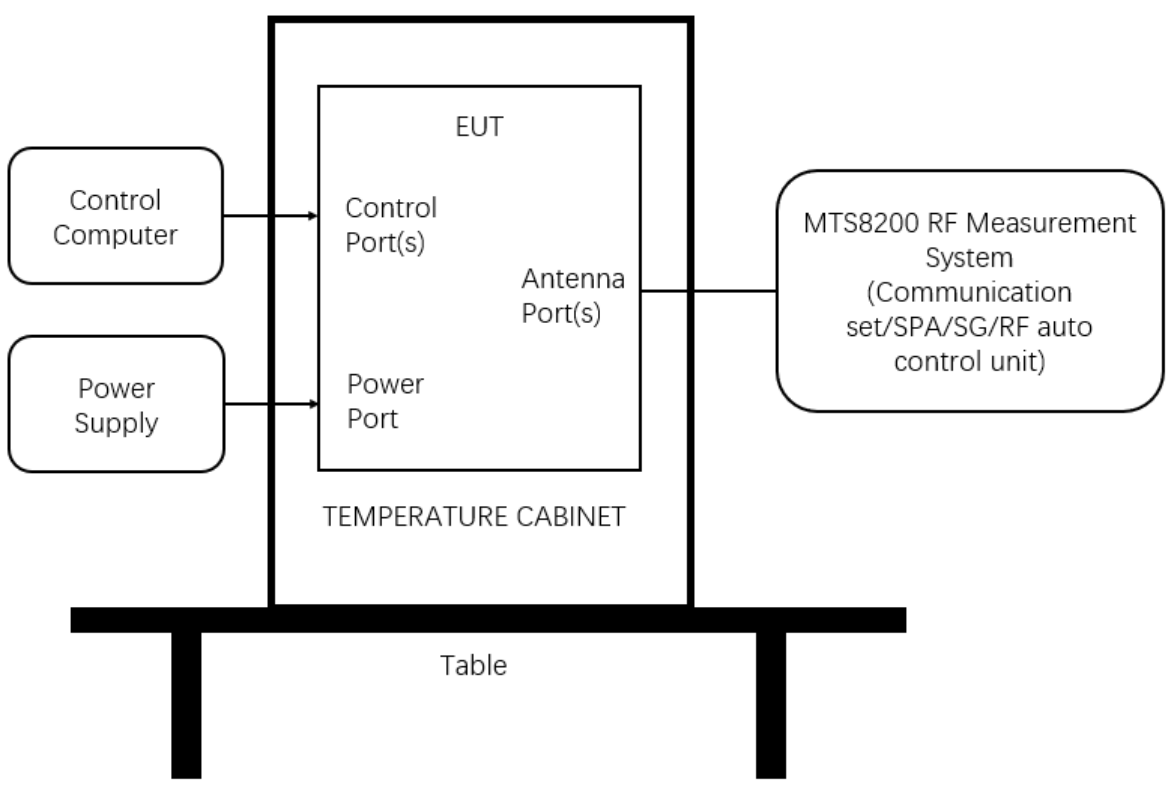
d) EIRP (dBm) = E (dBμV/m) + 20 log D − 104.8; where D is the measurement distance in meters.

e) Test the EUT in the lowest channel, the middle channel the Highest channel

f) The radiation measurements are performed in X, Y, Z axis positioning. Only the test worst case mode is recorded in the report.

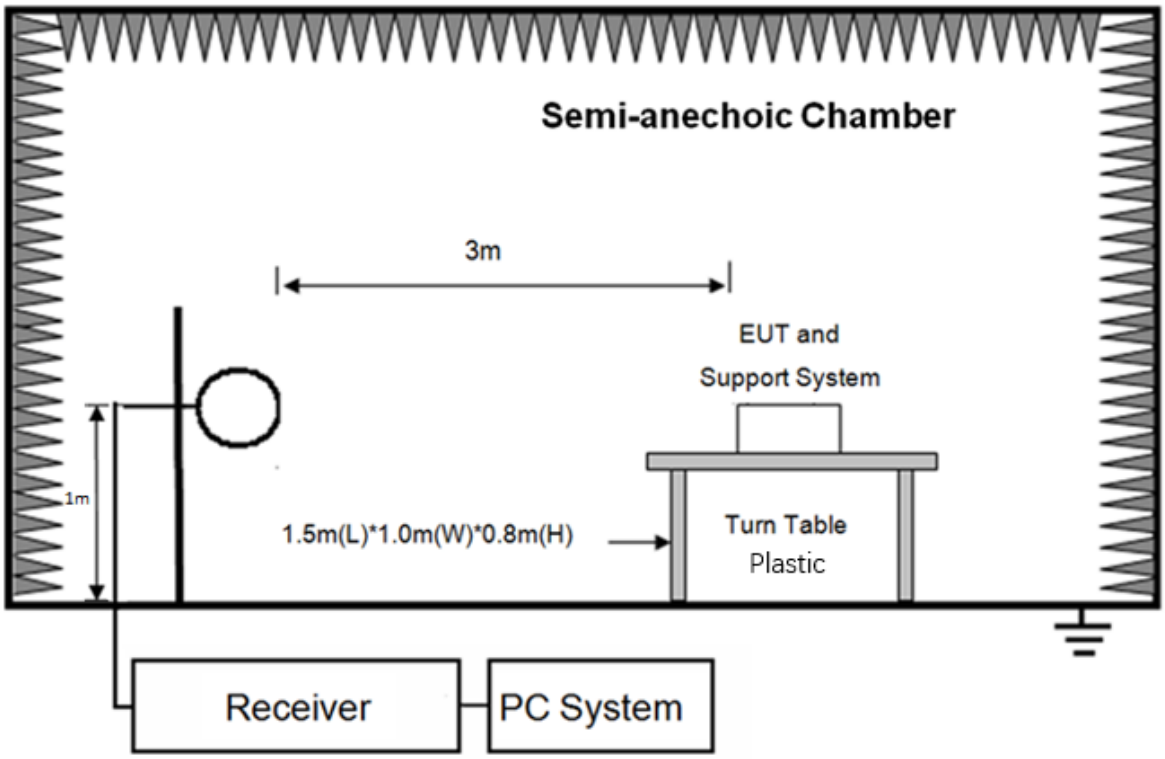
3.3. Test Setups

3.3.1. Test Setup 1

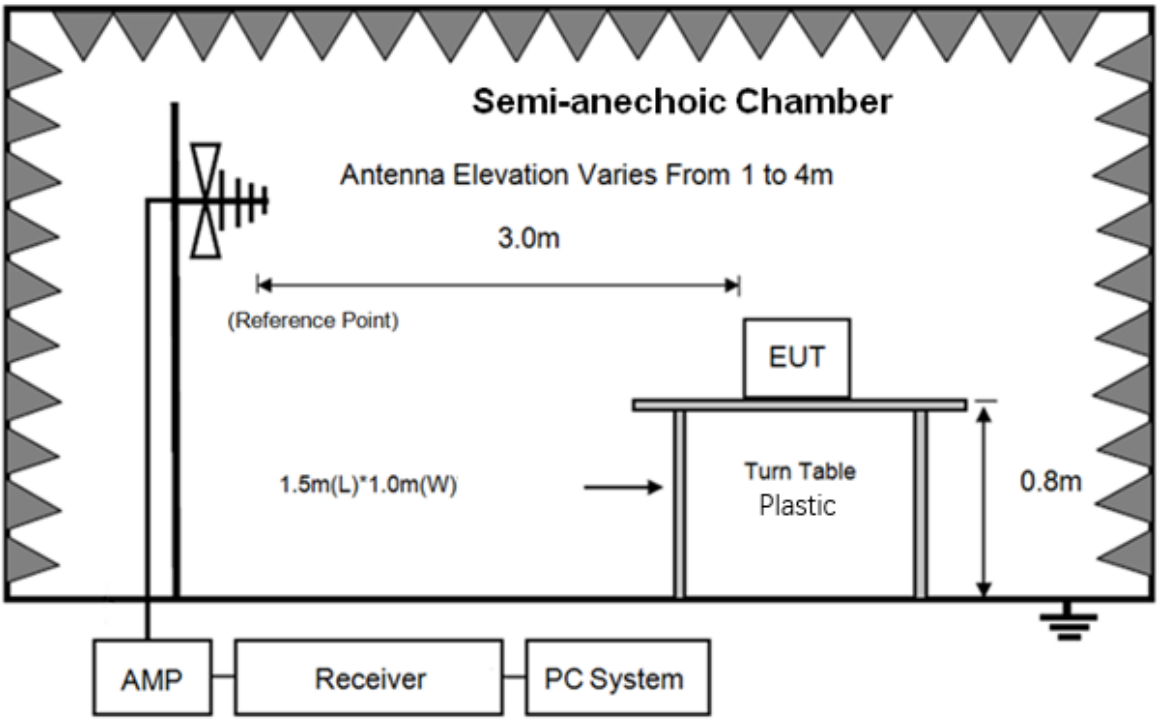


3.3.2. Test Setup 2

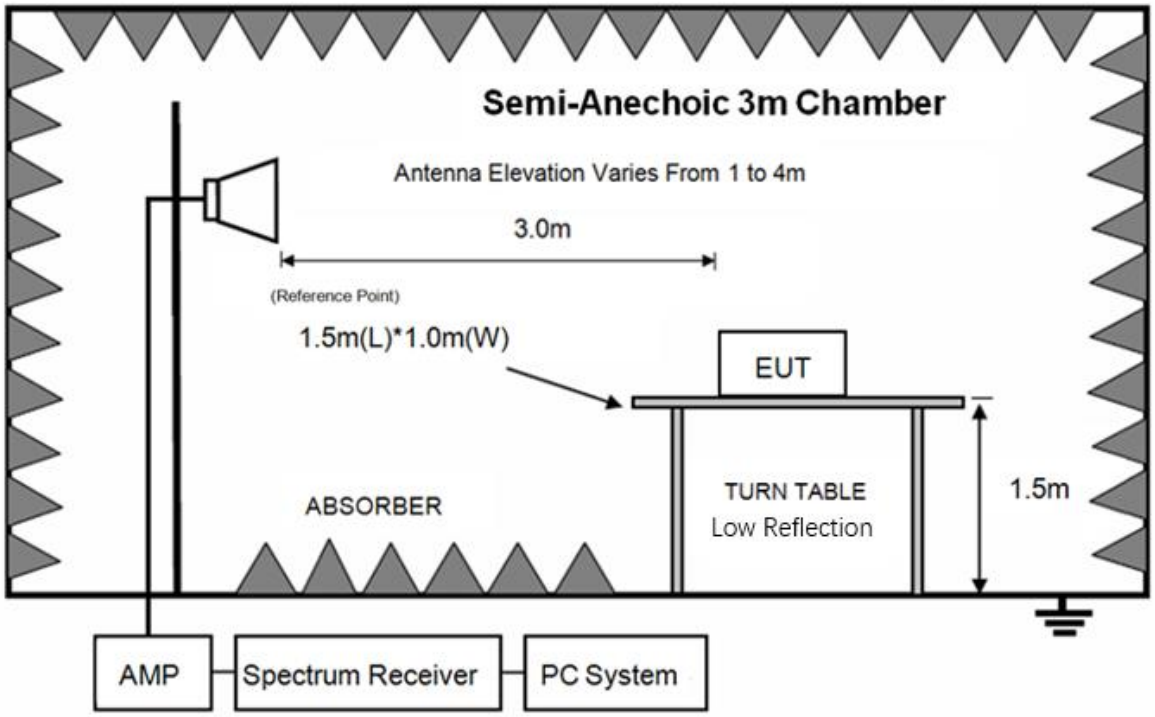
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz – 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



4. Measurement uncertainty

No.	Test Item	Uncertainty
1	Transmitter maximum output power	±0,7dB
2	Radiated spurious emissions / Radiated emissions	±2.72 dB (30MHz-1GHz) ±2.74 dB (1 - 6 GHz) ±2.72 dB (6 GHz - 18 GHz) ±3.54 dB (18 GHz - 26 GHz) ±4.30 dB (26 GHz - 40 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

5. Equipment Used During Test

Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EXA Signal Analyzer	Keysight	N9010A	MY53281492	2024/02/21	1 Year
Test software	TOYO	EP5/RSE	Ver 1.9.1	N/A	N/A
Test software	Audix	E3	V 6.11111b	N/A	N/A
Active Loop Antenna	R&S	HFH2-Z2	100269	2022/07/11	2 Year
Broadband Horn Antenna	TESEQ	BHA 9118	31754	2023/10/11	2 Year
EMI Test Receiver	R&S	ESCI	101024	2024/02/18	1 Year
EMI Test Receiver	R&S	ESCI	101030	2024/02/18	1 Year
Bilog Antenna	TESEQ	CBL6112D	29068	2022/10/10	2 Year
Bilog Antenna	TESEQ	CBL6112D	29069	2022/10/10	2 Year
Amplifier	Sonoma	310N	300913	2024/02/18	1 Year
Amplifier	Sonoma	310N	334532	2024/02/18	1 Year
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector1	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector2	N/A	N/A
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	158800	2024/02/21	1 Year
Coupler-Antenna	European Antenna	PSA-7501R/170	406310-0001	N/A	N/A
tunable notch-filter 820/860Mhz	Wainwright	WRCT 820/860-0.4/40-5SSK	SN8	N/A	N/A
tunable notch-filter 840/920Mhz	Wainwright	WRCT 840/920-0.4/40-5SSK	SN9	N/A	N/A
tunable notch-filter 1700/1800Mhz	Wainwright	WRCD 1700/1800-0.2/40-5SSK	SN41	N/A	N/A
tunable notch-filter 1800/2000Mhz	Wainwright	WRCD 1800/2000-0.2/40-5SSK	SN31	N/A	N/A
band reject filter 1870/1890Mhz	Wainwright	WRCG 1877/1883-1870/1890-40/6EE	SN20	N/A	N/A
band reject filter 1940/1960Mhz	Wainwright	WRCG 1947/1953-1940/1960-40/6SS	SN28	N/A	N/A
band reject filter 2400/2483.5Mhz	Wainwright	WRCTF 2402/2480-2400/2483.5-35/12+9SS	SN42	N/A	N/A
Low pass filter	Wainwright	WLK1.5/18G-10SS	SN5	N/A	N/A

1.5Ghz					
High pass filter 1.5G	Wainwright	WHKX1.5/15G-10SS	SN50	N/A	N/A
High pass filter 2.5G	Wainwright	WHKX 2.5/18G-12SS	SN5	N/A	N/A
High pass filter 3G	Kangmaiwei	ZHPF6-M3000-18000-996	03210746	N/A	N/A
High pass filter 6.5G	Kangmaiwei	ZHPF6-M6500-18000-547	03210747	N/A	N/A
High pass filter 1.0G	Kangmaiwei	ZHPF6-C1000-3000-548	11210354	N/A	N/A

6. Details Test Result

6.1. Radiated Power and Effective Isotropic Radiated Power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band2	1.4	18607	1	#0	QPSK	21.31	2	23.31	33	PASS
Band2	1.4	18607	1	#Mid	QPSK	21.43	2	23.43	33	PASS
Band2	1.4	18607	1	#Max	QPSK	21.38	2	23.38	33	PASS
Band2	1.4	18607	3	#0	QPSK	21.41	2	23.41	33	PASS
Band2	1.4	18607	3	#Mid	QPSK	21.64	2	23.64	33	PASS
Band2	1.4	18607	3	#Max	QPSK	21.52	2	23.52	33	PASS
Band2	1.4	18607	6	#0	QPSK	20.5	2	22.5	33	PASS
Band2	1.4	18607	1	#0	QAM16	20.19	2	22.19	33	PASS
Band2	1.4	18607	1	#Mid	QAM16	20.18	2	22.18	33	PASS
Band2	1.4	18607	1	#Max	QAM16	20.2	2	22.2	33	PASS
Band2	1.4	18607	3	#0	QAM16	20.03	2	22.03	33	PASS
Band2	1.4	18607	3	#Mid	QAM16	20.1	2	22.1	33	PASS
Band2	1.4	18607	3	#Max	QAM16	20.23	2	22.23	33	PASS
Band2	1.4	18607	6	#0	QAM16	19.53	2	21.53	33	PASS
Band2	1.4	18900	1	#0	QPSK	22.27	2	24.27	33	PASS
Band2	1.4	18900	1	#Mid	QPSK	22.2	2	24.2	33	PASS
Band2	1.4	18900	1	#Max	QPSK	22.16	2	24.16	33	PASS
Band2	1.4	18900	3	#0	QPSK	22.27	2	24.27	33	PASS
Band2	1.4	18900	3	#Mid	QPSK	22.4	2	24.4	33	PASS
Band2	1.4	18900	3	#Max	QPSK	22.34	2	24.34	33	PASS
Band2	1.4	18900	6	#0	QPSK	21.35	2	23.35	33	PASS
Band2	1.4	18900	1	#0	QAM16	21.13	2	23.13	33	PASS
Band2	1.4	18900	1	#Mid	QAM16	21.36	2	23.36	33	PASS
Band2	1.4	18900	1	#Max	QAM16	21.26	2	23.26	33	PASS
Band2	1.4	18900	3	#0	QAM16	21.54	2	23.54	33	PASS
Band2	1.4	18900	3	#Mid	QAM16	21.48	2	23.48	33	PASS
Band2	1.4	18900	3	#Max	QAM16	21.42	2	23.42	33	PASS
Band2	1.4	18900	6	#0	QAM16	20.42	2	22.42	33	PASS
Band2	1.4	19193	1	#0	QPSK	21.96	2	23.96	33	PASS
Band2	1.4	19193	1	#Mid	QPSK	22.13	2	24.13	33	PASS
Band2	1.4	19193	1	#Max	QPSK	22.02	2	24.02	33	PASS
Band2	1.4	19193	3	#0	QPSK	21.74	2	23.74	33	PASS
Band2	1.4	19193	3	#Mid	QPSK	21.87	2	23.87	33	PASS
Band2	1.4	19193	3	#Max	QPSK	21.83	2	23.83	33	PASS
Band2	1.4	19193	6	#0	QPSK	20.78	2	22.78	33	PASS
Band2	1.4	19193	1	#0	QAM16	20.82	2	22.82	33	PASS
Band2	1.4	19193	1	#Mid	QAM16	20.78	2	22.78	33	PASS
Band2	1.4	19193	1	#Max	QAM16	20.8	2	22.8	33	PASS
Band2	1.4	19193	3	#0	QAM16	20.7	2	22.7	33	PASS
Band2	1.4	19193	3	#Mid	QAM16	20.74	2	22.74	33	PASS
Band2	1.4	19193	3	#Max	QAM16	20.77	2	22.77	33	PASS
Band2	1.4	19193	6	#0	QAM16	19.57	2	21.57	33	PASS
Band2	3	18615	1	#0	QPSK	21.53	2	23.53	33	PASS
Band2	3	18615	1	#Mid	QPSK	21.73	2	23.73	33	PASS

Band2	3	18615	1	#Max	QPSK	21.67	2	23.67	33	PASS
Band2	3	18615	8	#0	QPSK	20.63	2	22.63	33	PASS
Band2	3	18615	8	#Mid	QPSK	20.73	2	22.73	33	PASS
Band2	3	18615	8	#Max	QPSK	20.78	2	22.78	33	PASS
Band2	3	18615	15	#0	QPSK	20.66	2	22.66	33	PASS
Band2	3	18615	1	#0	QAM16	21.07	2	23.07	33	PASS
Band2	3	18615	1	#Mid	QAM16	21.18	2	23.18	33	PASS
Band2	3	18615	1	#Max	QAM16	21.25	2	23.25	33	PASS
Band2	3	18615	8	#0	QAM16	19.57	2	21.57	33	PASS
Band2	3	18615	8	#Mid	QAM16	19.69	2	21.69	33	PASS
Band2	3	18615	8	#Max	QAM16	19.72	2	21.72	33	PASS
Band2	3	18615	15	#0	QAM16	19.67	2	21.67	33	PASS
Band2	3	18900	1	#0	QPSK	22.27	2	24.27	33	PASS
Band2	3	18900	1	#Mid	QPSK	22.55	2	24.55	33	PASS
Band2	3	18900	1	#Max	QPSK	22.47	2	24.47	33	PASS
Band2	3	18900	8	#0	QPSK	21.45	2	23.45	33	PASS
Band2	3	18900	8	#Mid	QPSK	21.46	2	23.46	33	PASS
Band2	3	18900	8	#Max	QPSK	21.39	2	23.39	33	PASS
Band2	3	18900	15	#0	QPSK	21.41	2	23.41	33	PASS
Band2	3	18900	1	#0	QAM16	21.06	2	23.06	33	PASS
Band2	3	18900	1	#Mid	QAM16	21.31	2	23.31	33	PASS
Band2	3	18900	1	#Max	QAM16	20.98	2	22.98	33	PASS
Band2	3	18900	8	#0	QAM16	20.3	2	22.3	33	PASS
Band2	3	18900	8	#Mid	QAM16	20.21	2	22.21	33	PASS
Band2	3	18900	8	#Max	QAM16	20.14	2	22.14	33	PASS
Band2	3	18900	15	#0	QAM16	20.3	2	22.3	33	PASS
Band2	3	19185	1	#0	QPSK	21.76	2	23.76	33	PASS
Band2	3	19185	1	#Mid	QPSK	21.77	2	23.77	33	PASS
Band2	3	19185	1	#Max	QPSK	21.78	2	23.78	33	PASS
Band2	3	19185	8	#0	QPSK	20.77	2	22.77	33	PASS
Band2	3	19185	8	#Mid	QPSK	20.85	2	22.85	33	PASS
Band2	3	19185	8	#Max	QPSK	20.9	2	22.9	33	PASS
Band2	3	19185	15	#0	QPSK	20.83	2	22.83	33	PASS
Band2	3	19185	1	#0	QAM16	20.77	2	22.77	33	PASS
Band2	3	19185	1	#Mid	QAM16	20.74	2	22.74	33	PASS
Band2	3	19185	1	#Max	QAM16	20.8	2	22.8	33	PASS
Band2	3	19185	8	#0	QAM16	19.79	2	21.79	33	PASS
Band2	3	19185	8	#Mid	QAM16	19.79	2	21.79	33	PASS
Band2	3	19185	8	#Max	QAM16	19.83	2	21.83	33	PASS
Band2	3	19185	15	#0	QAM16	19.69	2	21.69	33	PASS
Band2	5	18625	1	#0	QPSK	21.46	2	23.46	33	PASS
Band2	5	18625	1	#Mid	QPSK	22.14	2	24.14	33	PASS
Band2	5	18625	1	#Max	QPSK	21.82	2	23.82	33	PASS
Band2	5	18625	12	#0	QPSK	20.57	2	22.57	33	PASS
Band2	5	18625	12	#Mid	QPSK	20.72	2	22.72	33	PASS
Band2	5	18625	12	#Max	QPSK	20.81	2	22.81	33	PASS
Band2	5	18625	25	#0	QPSK	20.77	2	22.77	33	PASS
Band2	5	18625	1	#0	QAM16	20.65	2	22.65	33	PASS
Band2	5	18625	1	#Mid	QAM16	20.91	2	22.91	33	PASS
Band2	5	18625	1	#Max	QAM16	20.89	2	22.89	33	PASS
Band2	5	18625	12	#0	QAM16	19.45	2	21.45	33	PASS
Band2	5	18625	12	#Mid	QAM16	19.62	2	21.62	33	PASS

Band2	5	18625	12	#Max	QAM16	19.58	2	21.58	33	PASS
Band2	5	18625	25	#0	QAM16	19.79	2	21.79	33	PASS
Band2	5	18900	1	#0	QPSK	22.14	2	24.14	33	PASS
Band2	5	18900	1	#Mid	QPSK	22.28	2	24.28	33	PASS
Band2	5	18900	1	#Max	QPSK	22.19	2	24.19	33	PASS
Band2	5	18900	12	#0	QPSK	21.38	2	23.38	33	PASS
Band2	5	18900	12	#Mid	QPSK	21.37	2	23.37	33	PASS
Band2	5	18900	12	#Max	QPSK	21.37	2	23.37	33	PASS
Band2	5	18900	25	#0	QPSK	21.44	2	23.44	33	PASS
Band2	5	18900	1	#0	QAM16	21.15	2	23.15	33	PASS
Band2	5	18900	1	#Mid	QAM16	21.3	2	23.3	33	PASS
Band2	5	18900	1	#Max	QAM16	21.22	2	23.22	33	PASS
Band2	5	18900	12	#0	QAM16	20.18	2	22.18	33	PASS
Band2	5	18900	12	#Mid	QAM16	20.17	2	22.17	33	PASS
Band2	5	18900	12	#Max	QAM16	20.15	2	22.15	33	PASS
Band2	5	18900	25	#0	QAM16	20.34	2	22.34	33	PASS
Band2	5	19175	1	#0	QPSK	21.65	2	23.65	33	PASS
Band2	5	19175	1	#Mid	QPSK	21.95	2	23.95	33	PASS
Band2	5	19175	1	#Max	QPSK	21.85	2	23.85	33	PASS
Band2	5	19175	12	#0	QPSK	20.92	2	22.92	33	PASS
Band2	5	19175	12	#Mid	QPSK	20.94	2	22.94	33	PASS
Band2	5	19175	12	#Max	QPSK	20.93	2	22.93	33	PASS
Band2	5	19175	25	#0	QPSK	20.89	2	22.89	33	PASS
Band2	5	19175	1	#0	QAM16	20.98	2	22.98	33	PASS
Band2	5	19175	1	#Mid	QAM16	21.01	2	23.01	33	PASS
Band2	5	19175	1	#Max	QAM16	20.86	2	22.86	33	PASS
Band2	5	19175	12	#0	QAM16	19.78	2	21.78	33	PASS
Band2	5	19175	12	#Mid	QAM16	19.82	2	21.82	33	PASS
Band2	5	19175	12	#Max	QAM16	19.8	2	21.8	33	PASS
Band2	5	19175	25	#0	QAM16	19.89	2	21.89	33	PASS
Band2	10	18650	1	#0	QPSK	21.54	2	23.54	33	PASS
Band2	10	18650	1	#Mid	QPSK	22.05	2	24.05	33	PASS
Band2	10	18650	1	#Max	QPSK	21.9	2	23.9	33	PASS
Band2	10	18650	25	#0	QPSK	20.86	2	22.86	33	PASS
Band2	10	18650	25	#Mid	QPSK	20.99	2	22.99	33	PASS
Band2	10	18650	25	#Max	QPSK	20.97	2	22.97	33	PASS
Band2	10	18650	50	#0	QPSK	20.88	2	22.88	33	PASS
Band2	10	18650	1	#0	QAM16	21.11	2	23.11	33	PASS
Band2	10	18650	1	#Mid	QAM16	22.01	2	24.01	33	PASS
Band2	10	18650	1	#Max	QAM16	21.48	2	23.48	33	PASS
Band2	10	18650	25	#0	QAM16	19.79	2	21.79	33	PASS
Band2	10	18650	25	#Mid	QAM16	20.03	2	22.03	33	PASS
Band2	10	18650	25	#Max	QAM16	19.9	2	21.9	33	PASS
Band2	10	18900	1	#0	QPSK	22.32	2	24.32	33	PASS
Band2	10	18900	1	#Mid	QPSK	22.72	2	24.72	33	PASS
Band2	10	18900	1	#Max	QPSK	22.36	2	24.36	33	PASS
Band2	10	18900	25	#0	QPSK	21.48	2	23.48	33	PASS
Band2	10	18900	25	#Mid	QPSK	21.52	2	23.52	33	PASS
Band2	10	18900	25	#Max	QPSK	21.38	2	23.38	33	PASS
Band2	10	18900	50	#0	QPSK	21.38	2	23.38	33	PASS
Band2	10	18900	1	#0	QAM16	21.16	2	23.16	33	PASS
Band2	10	18900	1	#Mid	QAM16	21.19	2	23.19	33	PASS

Band2	10	18900	1	#Max	QAM16	20.97	2	22.97	33	PASS
Band2	10	18900	25	#0	QAM16	20.5	2	22.5	33	PASS
Band2	10	18900	25	#Mid	QAM16	20.54	2	22.54	33	PASS
Band2	10	18900	25	#Max	QAM16	20.4	2	22.4	33	PASS
Band2	10	19150	1	#0	QPSK	22.15	2	24.15	33	PASS
Band2	10	19150	1	#Mid	QPSK	22.45	2	24.45	33	PASS
Band2	10	19150	1	#Max	QPSK	21.82	2	23.82	33	PASS
Band2	10	19150	25	#0	QPSK	21.07	2	23.07	33	PASS
Band2	10	19150	25	#Mid	QPSK	21.13	2	23.13	33	PASS
Band2	10	19150	25	#Max	QPSK	21	2	23	33	PASS
Band2	10	19150	50	#0	QPSK	21	2	23	33	PASS
Band2	10	19150	1	#0	QAM16	20.93	2	22.93	33	PASS
Band2	10	19150	1	#Mid	QAM16	21.1	2	23.1	33	PASS
Band2	10	19150	1	#Max	QAM16	20.39	2	22.39	33	PASS
Band2	10	19150	25	#0	QAM16	20.09	2	22.09	33	PASS
Band2	10	19150	25	#Mid	QAM16	20.27	2	22.27	33	PASS
Band2	10	19150	25	#Max	QAM16	20.05	2	22.05	33	PASS
Band2	15	18675	1	#0	QPSK	21.54	2	23.54	33	PASS
Band2	15	18675	1	#Mid	QPSK	22.15	2	24.15	33	PASS
Band2	15	18675	1	#Max	QPSK	22.1	2	24.1	33	PASS
Band2	15	18675	36	#0	QPSK	20.78	2	22.78	33	PASS
Band2	15	18675	36	#Mid	QPSK	21.08	2	23.08	33	PASS
Band2	15	18675	36	#Max	QPSK	21.09	2	23.09	33	PASS
Band2	15	18675	1	#0	QAM16	21.07	2	23.07	33	PASS
Band2	15	18675	1	#Mid	QAM16	22.06	2	24.06	33	PASS
Band2	15	18675	1	#Max	QAM16	21.7	2	23.7	33	PASS
Band2	15	18675	36	#0	QAM16	21.02	2	23.02	33	PASS
Band2	15	18675	36	#Mid	QAM16	20.98	2	22.98	33	PASS
Band2	15	18675	36	#Max	QAM16	20.97	2	22.97	33	PASS
Band2	15	18900	1	#0	QPSK	22.07	2	24.07	33	PASS
Band2	15	18900	1	#Mid	QPSK	22.71	2	24.71	33	PASS
Band2	15	18900	1	#Max	QPSK	22.18	2	24.18	33	PASS
Band2	15	18900	36	#0	QPSK	21.5	2	23.5	33	PASS
Band2	15	18900	36	#Mid	QPSK	21.48	2	23.48	33	PASS
Band2	15	18900	36	#Max	QPSK	21.28	2	23.28	33	PASS
Band2	15	18900	1	#0	QAM16	21	2	23	33	PASS
Band2	15	18900	1	#Mid	QAM16	21.43	2	23.43	33	PASS
Band2	15	18900	1	#Max	QAM16	20.69	2	22.69	33	PASS
Band2	15	18900	36	#0	QAM16	21.05	2	23.05	33	PASS
Band2	15	18900	36	#Mid	QAM16	21.06	2	23.06	33	PASS
Band2	15	18900	36	#Max	QAM16	20.96	2	22.96	33	PASS
Band2	15	19125	1	#0	QPSK	22.01	2	24.01	33	PASS
Band2	15	19125	1	#Mid	QPSK	22.23	2	24.23	33	PASS
Band2	15	19125	1	#Max	QPSK	21.71	2	23.71	33	PASS
Band2	15	19125	36	#0	QPSK	21.19	2	23.19	33	PASS
Band2	15	19125	36	#Mid	QPSK	21.02	2	23.02	33	PASS
Band2	15	19125	36	#Max	QPSK	20.87	2	22.87	33	PASS
Band2	15	19125	1	#0	QAM16	20.88	2	22.88	33	PASS
Band2	15	19125	1	#Mid	QAM16	21.01	2	23.01	33	PASS
Band2	15	19125	1	#Max	QAM16	20.59	2	22.59	33	PASS
Band2	15	19125	36	#0	QAM16	21.02	2	23.02	33	PASS
Band2	15	19125	36	#Mid	QAM16	21.07	2	23.07	33	PASS

Band2	15	19125	36	#Max	QAM16	20.86	2	22.86	33	PASS
Band2	20	18700	1	#0	QPSK	21.39	2	23.39	33	PASS
Band2	20	18700	1	#Mid	QPSK	22.33	2	24.33	33	PASS
Band2	20	18700	1	#Max	QPSK	22.44	2	24.44	33	PASS
Band2	20	18700	50	#0	QPSK	20.82	2	22.82	33	PASS
Band2	20	18700	50	#Mid	QPSK	21.13	2	23.13	33	PASS
Band2	20	18700	50	#Max	QPSK	21.12	2	23.12	33	PASS
Band2	20	18700	1	#0	QAM16	20.2	2	22.2	33	PASS
Band2	20	18700	1	#Mid	QAM16	20.97	2	22.97	33	PASS
Band2	20	18700	1	#Max	QAM16	20.71	2	22.71	33	PASS
Band2	20	18700	50	#0	QAM16	20.86	2	22.86	33	PASS
Band2	20	18700	50	#Mid	QAM16	20.88	2	22.88	33	PASS
Band2	20	18700	50	#Max	QAM16	20.82	2	22.82	33	PASS
Band2	20	18900	1	#0	QPSK	22.08	2	24.08	33	PASS
Band2	20	18900	1	#Mid	QPSK	22.84	2	24.84	33	PASS
Band2	20	18900	1	#Max	QPSK	22.07	2	24.07	33	PASS
Band2	20	18900	50	#0	QPSK	21.36	2	23.36	33	PASS
Band2	20	18900	50	#Mid	QPSK	21.42	2	23.42	33	PASS
Band2	20	18900	50	#Max	QPSK	21.25	2	23.25	33	PASS
Band2	20	18900	1	#0	QAM16	20.78	2	22.78	33	PASS
Band2	20	18900	1	#Mid	QAM16	21.26	2	23.26	33	PASS
Band2	20	18900	1	#Max	QAM16	20.59	2	22.59	33	PASS
Band2	20	18900	50	#0	QAM16	20.43	2	22.43	33	PASS
Band2	20	18900	50	#Mid	QAM16	20.26	2	22.26	33	PASS
Band2	20	18900	50	#Max	QAM16	20.18	2	22.18	33	PASS
Band2	20	19100	1	#0	QPSK	21.83	2	23.83	33	PASS
Band2	20	19100	1	#Mid	QPSK	22.31	2	24.31	33	PASS
Band2	20	19100	1	#Max	QPSK	21.79	2	23.79	33	PASS
Band2	20	19100	50	#0	QPSK	21.26	2	23.26	33	PASS
Band2	20	19100	50	#Mid	QPSK	21.14	2	23.14	33	PASS
Band2	20	19100	50	#Max	QPSK	20.93	2	22.93	33	PASS
Band2	20	19100	1	#0	QAM16	20.74	2	22.74	33	PASS
Band2	20	19100	1	#Mid	QAM16	21.55	2	23.55	33	PASS
Band2	20	19100	1	#Max	QAM16	20.26	2	22.26	33	PASS
Band2	20	19100	50	#0	QAM16	20.44	2	22.44	33	PASS
Band2	20	19100	50	#Mid	QAM16	20.83	2	22.83	33	PASS
Band2	20	19100	50	#Max	QAM16	20.56	2	22.56	33	PASS
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band4	1.4	19957	1	#0	QPSK	21.84	2	23.84	30	PASS
Band4	1.4	19957	1	#Mid	QPSK	21.89	2	23.89	30	PASS
Band4	1.4	19957	1	#Max	QPSK	21.76	2	23.76	30	PASS
Band4	1.4	19957	3	#0	QPSK	21.7	2	23.7	30	PASS
Band4	1.4	19957	3	#Mid	QPSK	21.72	2	23.72	30	PASS
Band4	1.4	19957	3	#Max	QPSK	21.66	2	23.66	30	PASS
Band4	1.4	19957	6	#0	QPSK	20.75	2	22.75	30	PASS
Band4	1.4	19957	1	#0	QAM16	21.01	2	23.01	30	PASS
Band4	1.4	19957	1	#Mid	QAM16	21.13	2	23.13	30	PASS
Band4	1.4	19957	1	#Max	QAM16	21.05	2	23.05	30	PASS
Band4	1.4	19957	3	#0	QAM16	21.06	2	23.06	30	PASS
Band4	1.4	19957	3	#Mid	QAM16	21.09	2	23.09	30	PASS

Band4	1.4	19957	3	#Max	QAM16	20.93	2	22.93	30	PASS
Band4	1.4	19957	6	#0	QAM16	19.9	2	21.9	30	PASS
Band4	1.4	20175	1	#0	QPSK	21.86	2	23.86	30	PASS
Band4	1.4	20175	1	#Mid	QPSK	21.66	2	23.66	30	PASS
Band4	1.4	20175	1	#Max	QPSK	21.75	2	23.75	30	PASS
Band4	1.4	20175	3	#0	QPSK	21.85	2	23.85	30	PASS
Band4	1.4	20175	3	#Mid	QPSK	21.89	2	23.89	30	PASS
Band4	1.4	20175	3	#Max	QPSK	21.88	2	23.88	30	PASS
Band4	1.4	20175	6	#0	QPSK	20.97	2	22.97	30	PASS
Band4	1.4	20175	1	#0	QAM16	20.76	2	22.76	30	PASS
Band4	1.4	20175	1	#Mid	QAM16	20.85	2	22.85	30	PASS
Band4	1.4	20175	1	#Max	QAM16	20.74	2	22.74	30	PASS
Band4	1.4	20175	3	#0	QAM16	20.91	2	22.91	30	PASS
Band4	1.4	20175	3	#Mid	QAM16	20.97	2	22.97	30	PASS
Band4	1.4	20175	3	#Max	QAM16	20.96	2	22.96	30	PASS
Band4	1.4	20175	6	#0	QAM16	19.95	2	21.95	30	PASS
Band4	1.4	20393	1	#0	QPSK	21.77	2	23.77	30	PASS
Band4	1.4	20393	1	#Mid	QPSK	21.55	2	23.55	30	PASS
Band4	1.4	20393	1	#Max	QPSK	21.85	2	23.85	30	PASS
Band4	1.4	20393	3	#0	QPSK	21.81	2	23.81	30	PASS
Band4	1.4	20393	3	#Mid	QPSK	21.83	2	23.83	30	PASS
Band4	1.4	20393	3	#Max	QPSK	21.8	2	23.8	30	PASS
Band4	1.4	20393	6	#0	QPSK	21	2	23	30	PASS
Band4	1.4	20393	1	#0	QAM16	20.59	2	22.59	30	PASS
Band4	1.4	20393	1	#Mid	QAM16	20.99	2	22.99	30	PASS
Band4	1.4	20393	1	#Max	QAM16	20.83	2	22.83	30	PASS
Band4	1.4	20393	3	#0	QAM16	20.96	2	22.96	30	PASS
Band4	1.4	20393	3	#Mid	QAM16	21	2	23	30	PASS
Band4	1.4	20393	3	#Max	QAM16	20.97	2	22.97	30	PASS
Band4	1.4	20393	6	#0	QAM16	19.88	2	21.88	30	PASS
Band4	3	19965	1	#0	QPSK	21.68	2	23.68	30	PASS
Band4	3	19965	1	#Mid	QPSK	21.68	2	23.68	30	PASS
Band4	3	19965	1	#Max	QPSK	21.5	2	23.5	30	PASS
Band4	3	19965	8	#0	QPSK	20.76	2	22.76	30	PASS
Band4	3	19965	8	#Mid	QPSK	20.76	2	22.76	30	PASS
Band4	3	19965	8	#Max	QPSK	20.68	2	22.68	30	PASS
Band4	3	19965	15	#0	QPSK	20.59	2	22.59	30	PASS
Band4	3	19965	1	#0	QAM16	21.1	2	23.1	30	PASS
Band4	3	19965	1	#Mid	QAM16	21.3	2	23.3	30	PASS
Band4	3	19965	1	#Max	QAM16	21.14	2	23.14	30	PASS
Band4	3	19965	8	#0	QAM16	19.68	2	21.68	30	PASS
Band4	3	19965	8	#Mid	QAM16	19.59	2	21.59	30	PASS
Band4	3	19965	8	#Max	QAM16	19.61	2	21.61	30	PASS
Band4	3	19965	15	#0	QAM16	19.74	2	21.74	30	PASS
Band4	3	20175	1	#0	QPSK	21.81	2	23.81	30	PASS
Band4	3	20175	1	#Mid	QPSK	21.63	2	23.63	30	PASS
Band4	3	20175	1	#Max	QPSK	21.95	2	23.95	30	PASS
Band4	3	20175	8	#0	QPSK	20.88	2	22.88	30	PASS
Band4	3	20175	8	#Mid	QPSK	20.95	2	22.95	30	PASS
Band4	3	20175	8	#Max	QPSK	20.87	2	22.87	30	PASS
Band4	3	20175	15	#0	QPSK	20.91	2	22.91	30	PASS
Band4	3	20175	1	#0	QAM16	20.6	2	22.6	30	PASS

Band4	3	20175	1	#Mid	QAM16	20.77	2	22.77	30	PASS
Band4	3	20175	1	#Max	QAM16	20.29	2	22.29	30	PASS
Band4	3	20175	8	#0	QAM16	19.68	2	21.68	30	PASS
Band4	3	20175	8	#Mid	QAM16	19.65	2	21.65	30	PASS
Band4	3	20175	8	#Max	QAM16	19.56	2	21.56	30	PASS
Band4	3	20175	15	#0	QAM16	19.65	2	21.65	30	PASS
Band4	3	20385	1	#0	QPSK	21.59	2	23.59	30	PASS
Band4	3	20385	1	#Mid	QPSK	21.81	2	23.81	30	PASS
Band4	3	20385	1	#Max	QPSK	21.75	2	23.75	30	PASS
Band4	3	20385	8	#0	QPSK	20.81	2	22.81	30	PASS
Band4	3	20385	8	#Mid	QPSK	20.84	2	22.84	30	PASS
Band4	3	20385	8	#Max	QPSK	20.82	2	22.82	30	PASS
Band4	3	20385	15	#0	QPSK	20.82	2	22.82	30	PASS
Band4	3	20385	1	#0	QAM16	20.72	2	22.72	30	PASS
Band4	3	20385	1	#Mid	QAM16	20.79	2	22.79	30	PASS
Band4	3	20385	1	#Max	QAM16	20.74	2	22.74	30	PASS
Band4	3	20385	8	#0	QAM16	19.83	2	21.83	30	PASS
Band4	3	20385	8	#Mid	QAM16	19.87	2	21.87	30	PASS
Band4	3	20385	8	#Max	QAM16	19.85	2	21.85	30	PASS
Band4	3	20385	15	#0	QAM16	19.98	2	21.98	30	PASS
Band4	5	19975	1	#0	QPSK	21.64	2	23.64	30	PASS
Band4	5	19975	1	#Mid	QPSK	21.65	2	23.65	30	PASS
Band4	5	19975	1	#Max	QPSK	21.69	2	23.69	30	PASS
Band4	5	19975	12	#0	QPSK	20.66	2	22.66	30	PASS
Band4	5	19975	12	#Mid	QPSK	20.71	2	22.71	30	PASS
Band4	5	19975	12	#Max	QPSK	20.71	2	22.71	30	PASS
Band4	5	19975	25	#0	QPSK	20.65	2	22.65	30	PASS
Band4	5	19975	1	#0	QAM16	21.12	2	23.12	30	PASS
Band4	5	19975	1	#Mid	QAM16	21.1	2	23.1	30	PASS
Band4	5	19975	1	#Max	QAM16	21.04	2	23.04	30	PASS
Band4	5	19975	12	#0	QAM16	19.48	2	21.48	30	PASS
Band4	5	19975	12	#Mid	QAM16	19.56	2	21.56	30	PASS
Band4	5	19975	12	#Max	QAM16	19.53	2	21.53	30	PASS
Band4	5	19975	25	#0	QAM16	19.54	2	21.54	30	PASS
Band4	5	20175	1	#0	QPSK	21.71	2	23.71	30	PASS
Band4	5	20175	1	#Mid	QPSK	21.65	2	23.65	30	PASS
Band4	5	20175	1	#Max	QPSK	21.79	2	23.79	30	PASS
Band4	5	20175	12	#0	QPSK	20.91	2	22.91	30	PASS
Band4	5	20175	12	#Mid	QPSK	20.91	2	22.91	30	PASS
Band4	5	20175	12	#Max	QPSK	20.87	2	22.87	30	PASS
Band4	5	20175	25	#0	QPSK	20.88	2	22.88	30	PASS
Band4	5	20175	1	#0	QAM16	20.76	2	22.76	30	PASS
Band4	5	20175	1	#Mid	QAM16	20.84	2	22.84	30	PASS
Band4	5	20175	1	#Max	QAM16	20.56	2	22.56	30	PASS
Band4	5	20175	12	#0	QAM16	19.47	2	21.47	30	PASS
Band4	5	20175	12	#Mid	QAM16	19.48	2	21.48	30	PASS
Band4	5	20175	12	#Max	QAM16	19.64	2	21.64	30	PASS
Band4	5	20175	25	#0	QAM16	19.79	2	21.79	30	PASS
Band4	5	20375	1	#0	QPSK	21.71	2	23.71	30	PASS
Band4	5	20375	1	#Mid	QPSK	21.85	2	23.85	30	PASS
Band4	5	20375	1	#Max	QPSK	21.99	2	23.99	30	PASS
Band4	5	20375	12	#0	QPSK	20.95	2	22.95	30	PASS