

TEST REPORT

REPORT NUMBER:I23W00054-WCDMA RF

ON

Type of Equipment: 5G CPE
Type of Designation: PW550, PW571,PW512,JW515, PW550-NA
Brand Name: ATEL
Manufacturer: Asiatelco Technologies Co.
FCC ID: XYO-PW550

ACCORDING TO
FCC 47 CFR Part 22;FCC 47 CFR Part 2; FCC 47 CFR Part 24; FCC 47 CFR
Part 27

Chongqing Academy of Information and Communications Technology

Month date, year
October 13, 2023

Signature



Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Report No.: I23W00054-WCDMA RF

Revision Version

Report Number	Revision	Date
I23W00054-WCDMA RF	00	2023-09-26
I23W00054-WCDMA RF	01	2023-10-13

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
Identifier Number:	CN0044
Designation Number:	CN1239
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

1.3. Project data

Testing Start Date:	2023-09-05
Testing End Date:	2023-09-26

1.4. Signature



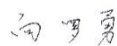
2023-10-13

Dong Junxin
(Prepared this test report)

Date

2023-10-13

Wang Lili
(Reviewed this test report)

Date

2023-10-13

Xiang Luoyong
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	Asiatelco Technologies Co.
Address /Post:	#289 Bisheng Road, Building-8, 3F, Zhang jiang Hi-Tech Park, Pudong, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	N/A
Fax:	N/A
Email:	kwchen@asiatelco.com
Contact Person:	Ella Chen

2.2. Manufacturer Information

Company Name:	Asiatelco Technologies Co.
Address /Post:	#289 Bisheng Road, Building-8, 3F, Zhang jiang Hi-Tech Park, Pudong, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	N/A
Fax:	N/A
Email:	kwchen@asiatelco.com
Contact Person:	Ella Chen

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3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	5G CPE
Model name	PW550, PW571,PW512,JW515, PW550-NA
Brand name	ATEL
WCDMA Frequency Band	WCDMA:B2/B4/B5
LTE Frequency Band	LTE:B2/4/5/7/12/13/14/17/25/26/30/41/48/66/71
Type of WCDMA modulation	QPSK/16QAM
Power Class 2	N/A
Power Class 3	WCDMA: B2/B4/B5
Extreme Temperature	-20/+60°C
Nominal Voltage	24V
Extreme High Voltage	25.2V
Extreme Low Voltage	22.8V

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
S1	862424050114643	PW55-P1	CPE5_PW550_N0_00_v1.0.2	2023-09-11
S2	862424050062271	PW55-P1	CPE5_PW550_N0_00_v1.0.2	2023-09-05

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
WCDMA	II	1850-1910	1930-1990	--
WCDMA	IV	1710-1755	2110-2155	--

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Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
WCDMA	V	824-849	869-894	--

3.4. Internal Identification of AE used during the test

AE ID*	Description	dB*
AE1	RF cable	0.5

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC 47 CFR Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	2021-10-01
FCC 47 CFR Part 22	PUBLIC MOBILE SERVICES	2022-10-01
FCC 47 CFR Part 24	PERSONAL COMMUNICATIONS SERVICES	2022-10-01
FCC 47 CFR Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	2022-10-01

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacturer	Cal. Interval	Cal.Due Date
1	Spectrum analyzer	FSQ 26	201137/026	--	--	R&S	1 Year	2024-06-28
2	Spectrum analyzer	FSW26	104280	--	--	R&S	1 Year	2024-06-28
3	DC Power Supply	3303D	801128	--	--	Topward	1 Year	2024-06-28
4	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	1 Year	2024-06-28

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacturer	Cal. Interval	Cal.Due Date
1	EMI Test Receiver	ESU40	100307	--	--	R&S	1 Year	2024-06-28
2	TRILOG Broadband Antenna	VULB9163	9163-586	--	--	Schwarzbeck	1 Year	2023-10-29
3	Horn antenna	9120D	1083	--	--	Schwarzbeck	2 Year	2024-12-14
4	Horn antenna	DATE 1152	LM7127	--	--	ETS	2 Year	2024-09-06
5	Horn antenna	DATE 1012	LM5945	--	--	ETS	2 Year	2024-09-06
6	Amplifier1	SCU-08F1	8320027	--	--	R&S	1 Year	2024-06-28
7	Amplifier2	SCU-18F	180093	--	--	R&S	1 Year	2024-06-28

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5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal. Interval	Cal.Due Date
1	Climate chamber	SH-241	92010759	--	1 Year	2024-06-28

5.4. Anechoic chamber Vibration table

No.	Name	Type	SN	Manufacture	Cal. Interval	Cal.Due Date
1	Fully-Anechoic Chamber	FAC 5	--	TDK	3 Year	2024-09-22
2	Anechoic Chamber	SAC 10	--	TDK	3 Year	2024-08-26

5.5. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V 10.20.01	--	R&S

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6. Test Results

6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
2.1046/22.913(a)/24.232(c)/27.50(d)(4)	Output Power/EIPR/ERP	PASS
2.1051/22.917(a)/24.238/27.53(h)	Emission Limit	PASS
22.913(d)/ 24.232(d)/ 27.50(d)(5)	Peak-to-Average Ratio	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)
2.1049	99%Occupied Bandwidth	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)
22.917(b)/24.238/ 27.53(h)	-26dB Emission Bandwidth	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)
22.917(b)/24.238(a)/ 27.53(h)	Band Edge at antenna terminals	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)
2.1055/22.235/24.235/27.54	Frequency stability	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)
2.1057/2.1051/22.917(a)/24.238/27.53(h)	Conducted Spurious mission	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)

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Note: The PW550, PW571, PW512, JW515, PW550-NA, manufactured by Asiatelco Technologies Co. is a new product for testing.

The RF module inside the product have been certified, FCC ID: ZMOFG360NA. certified on 2021-12-13, Only RF output power, Radiated Spurious Emission is tested for 5G CPE model PW550, PW571, PW512, JW515, PW550-NA in this report, and because of the change of antenna gain, Effective Isotropic Radiated Power/ERP also re-evaluated. Other test items refer to the FG360-NA Module report (Report No.: SAR/2021/4000901 and SUZR/2021/7002001, FCC ID: ZMOFG360NA).

6.2. Output Power

Specifications:	2.1046/22.913(a)/24.232(c)/27.50(d)(4)
DUT Serial Number:	S1
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

During the process of testing, the EUT was controlled Rhode & Schwarz Digital Radio.

Communication tester to ensure max power transmission and proper modulation.

This result contains peak output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

6.2.1. Method of Measurements

Method of measurements please refer to KDB971168 D01 v03 clause 5.

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Rhode & Schwarz Spectrum Analyzer FSQ(peak).

These measurements were done at 3 frequencies, 826.4MHz, 836.6MHz and 846.6MHz for WCDMA Band . (bottom, middle and top of operational frequency range).

6.2.2. Test procedures

The transmitter output port was connected to base station.

Set the EUT at maximum power through base station.

Select lowest, middle, and highest channels for each band and different modulation.

Measure maximum average power for other modulation signal.

6.2.3. Limit

22.913(a) Mobile stations are limited to 7 watts.

24.232(c) Mobile and portable stations are limited to 2 watts.

27.50(d)(4):Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695–1710 MHz and 1755–1780 MHz bands are limited to 1 watt EIRP.

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.62dB (k=2)

6.2.4. Test Procedure

The transmitter output power was connected to calibrated attenuator, the other end of which was connected

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to signal analyzer. Transmitter output power was read off the power in dBm. The power outputs at the transmitter antenna port was determined by adding the value of attenuator to the signal analyzer reading.

6.2.5. Test Condition

RBW	VBW	Sweep time	Span
3MHz	10MHz	Auto	50MHz

6.2.6. Test Setup



6.2.7. Measurement results

WCDMA BAND II	
Channel	Peak power (dBm)
9663/1852.6	23.41
9800/1880	23.36
9937/1907.4	23.14

WCDMA BAND IV	
Channel	Peak power (dBm)
1538/1712.6	23.49
1675/1740.4	23.38
1737/1752.4	23.39

WCDMA BAND V	
Channel	Peak power (dBm)
4358/826.6	23.61
4400/835	23.59
4457/846.4	23.66

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6.2.8. EIRP

6.2.9. Measurement result

Maximum of Antenna Gain:

No.	Item(s)	Antenna	Data(dBi)
1	WCDMA II	ANT8	1.70
2	WCDMA IV	ANT8	1.82
3	WCDMA V	ANT8	1.56

Note1: The data of antenna gain is based on PW550-NA2 Technical Operation Description and PW550-NA2 Antenna datasheet provided by the manufacturer.

Note2: The EIRP is calculated based on the maximum antenna gain.

WCDMA Band II

Frequency (MHz)	Peak EIRP (dBm)	Polarization
9663/1852.6	25.11	V
9800/1880	25.06	H
9937/1907.4	24.84	V

WCDMA Band IV

Frequency (MHz)	Peak EIRP (dBm)	Polarization
1538/1712.6	25.31	V
1675/1740.4	25.2	H
1737/1752.4	25.21	V

WCDMA Band V

Frequency(MHz)	Peak EIRP (dBm)	Peak ERP (dBm)	Polarization
4358/826.6	25.17	23.02	H
4400/835	25.15	23	H
4457/846.4	25.22	23.07	H

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6.3. EMISSION LIMIT

Specifications:	FCC Part 2.1051/22.917(a)/24.238/27.53(h)
DUT Serial Number:	S2
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

6.3.1. Measurement Method

The measurements procedures in TIA-603E-2016 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in CFR2.1051/22.917(b)/24.238/27.53(h)

The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of wcdma.

6.3.2. The procedure of radiated spurious emissions is as follows

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10thharmonic were measured with peak detector.

2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).

3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (Ppl) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (Ga) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (Ppl) is the summation of the cable loss .

The measurement results are obtained as described below:

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Power(EIRP)=P_{Mea}- P_{pl}+ G_a

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi

6.3.3. Measurement Limit

22.917 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Part 24.238(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

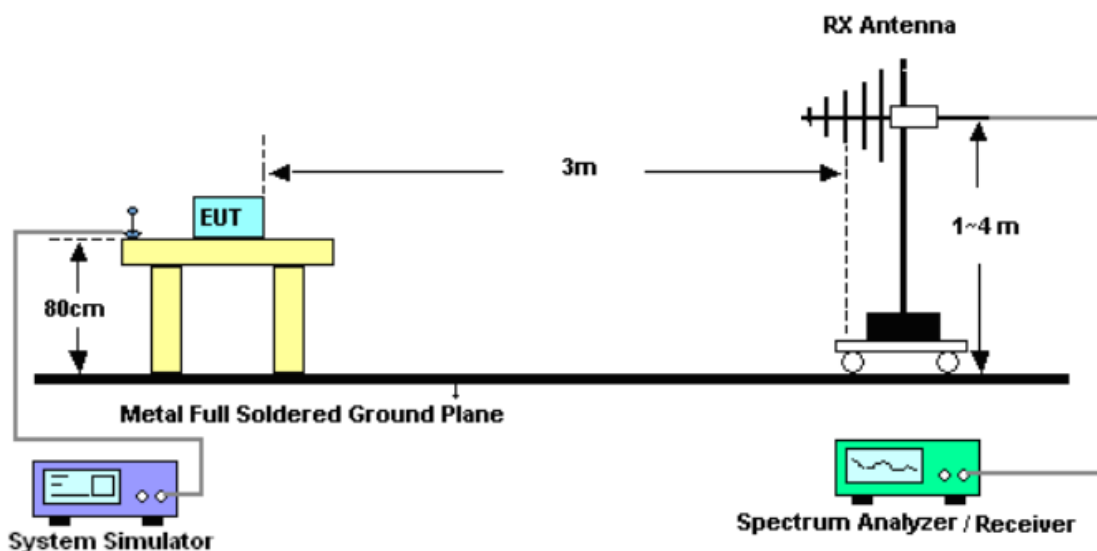
Part 24.238(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

27.53(h)(1) General protection levels. Except as otherwise specified below, for operations in the 1710–1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to KDB 971168 6, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.

6.3.4. Test Setup

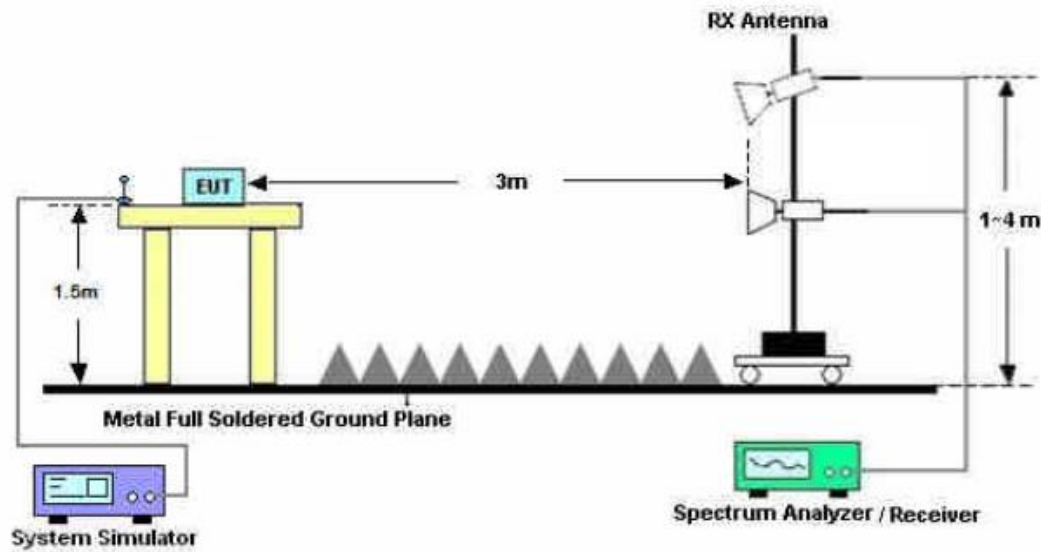
For radiated test from 30MHz to 1GHz



For radiated test above 1GHz

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Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	30MHz-150MHz 3.82 dB (k=2) 150MHz-1000MHz 3.97 dB (k=2) 1000MHz-3000MHz 3.09 dB (k=2) 3000MHz-6000MHz 3.29 dB (k=2) 6000MHz-18000MHz 3.91 dB (k=2) 18000MHz-26000MHz 4.60 dB (k=2) 26000MHz-40000MHz 4.77 dB (k=2)

6.3.5. Measurement Results

Frequency	Channel	Frequency Range	Result
WCDMA Band II	Low	30MHz~20GHz	Pass
	Middle	30MHz~20GHz	Pass
	High	30MHz~20GHz	Pass
WCDMA Band IV	Low	30MHz~20GHz	Pass
	Middle	30MHz~20GHz	Pass
	High	30MHz~20GHz	Pass
WCDMA Band V	Low	30MHz~20GHz	Pass
	Middle	30MHz~20GHz	Pass

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	High	30MHz~20GHz	Pass
--	------	-------------	------

RSE-W2-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
3669.6	-60.37	6.6	7.9	-59.07	-13	H
5093.2	-60.13	7.9	9.6	-58.43	-13	V
7436.4	-60.76	9.7	11.6	-58.86	-13	H
10182.8	-57.59	11.3	12.5	-56.39	-13	V
12751.0	-53.43	12.5	12.3	-53.63	-13	H
16733.7	-49.03	15.1	12.3	-51.83	-13	H

RSE-W2-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
3774.0	-60.87	6.6	7.9	-59.57	-13	H
5183.6	-60.98	8.0	9.4	-59.58	-13	H
6464.4	-59.49	8.9	10.6	-57.79	-13	V
9136.0	-58.03	10.5	12.6	-55.93	-13	V
12234.4	-53.51	12.6	12.3	-53.81	-13	H
16807.2	-47.97	15.8	12.3	-51.47	-13	H

RSE-W2-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
3712.8	-61.4	6.6	7.9	-60.1	-13	V
5107.2	-60.26	7.9	9.6	-58.56	-13	H
7057.2	-59.34	9.4	11.1	-57.64	-13	H
9207.2	-57.95	10.5	12.6	-55.85	-13	H
12248.1	-54.67	12.6	12.3	-54.97	-13	H
16302.2	-49.03	14.7	12.3	-51.43	-13	H

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RSE-W4-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
4899.2	-60.84	7.7	9.6	-58.94	-13	H
7458.4	-59.61	9.7	11.6	-57.71	-13	H
10044.8	-57.68	11.2	12.5	-56.38	-13	H
12629.2	-55.11	12.8	12.3	-55.61	-13	H
15454.8	-52.71	14.5	12.3	-54.91	-13	H
17652.4	-49.5	15.8	12.3	-53	-13	V

RSE-W4-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
5443.2	-60.18	8.1	9.8	-58.48	-13	H
7318.4	-60.01	9.6	11.4	-58.21	-13	V
8999.2	-58.96	10.4	12.6	-56.76	-13	H
12204.7	-55.02	12.6	12.3	-55.32	-13	V
14526.6	-54.49	14.2	12.3	-56.39	-13	V
16303.2	-49.18	14.7	12.3	-51.58	-13	H

RSE-W4-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
5832.0	-60.38	8.4	10.2	-58.58	-13	H
8427.6	-60.11	10.2	12.6	-57.71	-13	H
11163.8	-55.77	12.1	12.3	-55.57	-13	V
12739.5	-55.28	12.7	12.3	-55.68	-13	H
14500.4	-55.01	14.2	12.3	-56.91	-13	V
16761.0	-48.42	15.8	12.3	-51.92	-13	H

RSE-W5-H
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Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
1888.6	-60.26	4.6	4.5	-60.36	-13	V
2895.4	-53.92	5.8	6.7	-53.02	-13	V
3655.6	-60.84	6.6	7.9	-59.54	-13	H
5100.4	-60.18	7.9	9.6	-58.48	-13	V
6575.2	-59.6	9.1	10.6	-58.1	-13	V
9286.0	-59.37	10.7	12.7	-57.37	-13	V

RSE-W5-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
1890.4	-60.49	4.6	4.5	-60.59	-13	H
2893.5	-53.88	5.8	6.7	-52.98	-13	H
3957.6	-61.73	6.8	8.6	-59.93	-13	V
5092.0	-60.66	7.9	9.6	-58.96	-13	V
6520.0	-60.3	9.0	10.6	-58.7	-13	H
9298.6	-59.01	10.7	12.7	-57.01	-13	V

RSE-W5-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
2215.8	-57.89	5.0	5.1	-57.79	-13	V
2723.1	-54.46	5.6	6.1	-53.96	-13	V
3650.0	-61.44	6.6	7.9	-60.14	-13	H
5103.6	-59.22	7.9	9.6	-57.52	-13	H
7530.4	-58.76	9.7	11.6	-56.86	-13	V
9522.4	-58.78	10.7	12.7	-56.78	-13	H

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Annex A EUT Photos

See the document "I23W00054-External Photos".

See the document "I23W00054-Internal Photos".

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Annex B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

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

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