



# TEST REPORT

REPORT NUMBER: I23W00045-WIFI 2.4G RF

ON

<b>Type of Equipment:</b>	4G Smart Phone
<b>Type of Designation:</b>	MobiWire H6322, Altice S35
<b>Brand Name:</b>	MobiWire, Altice
<b>Manufacturer:</b>	MobiWire SAS
<b>FCC ID:</b>	QPN-H6322

ACCORDING TO

FCC Part 15

**Chongqing Academy of Information and Communications Technology**

*Month date, year*

*Sep 20, 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.: I23W00045-WIFI 2.4G RF

Revision Version

Report Number	Revision	Date	Memo
I23W00045-WIFI 2.4G RF	00	2023-09-20	Initial creation of test report

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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:	25-75%

### 1.3. Project data

Testing Start Date:	2023-08-18
Testing End Date:	2023-09-20

### 1.4. Signature

2023-09-20

---

**(Prepared this test report)****Date**

2023-09-20

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**(Reviewed this test report)****Date**

2023-09-20

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**Director of the laboratory  
(Approved this test report)****Date****Chongqing Academy of Information and Communication Technology**Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336  
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## 2. Client Information

### 2.1. Applicant Information

Company Name:	MobiWire SAS
Address /Post:	107 Boulevard de la Mission Marchand 92400 Courbevoie,France
City:	Courbevoie
Country:	France
Telephone:	+33625028368
Fax:	N/A
Email:	olivier.tiennault@mobiwire.com
Contact Person:	Olivier Tiennault

### 2.2. Manufacturer Information

Company Name:	MobiWire SAS
Address /Post:	107 Boulevard de la Mission Marchand 92400 Courbevoie,France
City:	Courbevoie
Country:	France
Telephone:	+33625028368
Fax:	N/A
Email:	olivier.tiennault@mobiwire.com
Contact Person:	Olivier Tiennault

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

#### 3.1. About EUT

EUT Description	4G Smart Phone
Model name	MobiWire H6322, Altice S35
Brand name	MobiWire, Altice
GSM Frequency Band	GSM:850/ 900/ 1800/1900
WCDMA Frequency Band	WCDMA:B1/B2/B5/B8
LTE Frequency Band	LTE: B1/2/3/4/5/7/8/20/28/38/41
BLUETOOTH Frequency Band	2402MHz-2480MHz
WLAN Frequency Band	Wi-Fi 2.4G:802.11b/g/n, Wi-Fi 5G U-NII-1/ U-NII-2a/U-NII-2c/U-NII-3:802.11a/n/ac
Type of modulation	CCK OFDM
Extreme Temperature	-10-55°C
Nominal Voltage	3.85V
Extreme High Voltage	4.4V
Extreme Low Voltage	3.6V

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
S4	354365420300385 354365420300393	V01	Mobiwire_H6322_V01	2023-08-18
S6	354365420300641 354365420300658	V01	Mobiwire_H6322_V01	2023-08-18

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

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)
WLAN	2.4G	2412MHz-2472MHz	

Note1: This device only supports full RU transmission.

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**3.3. Outline of Equipment under Test**

**3.4. Internal Identification of AE used during the test**

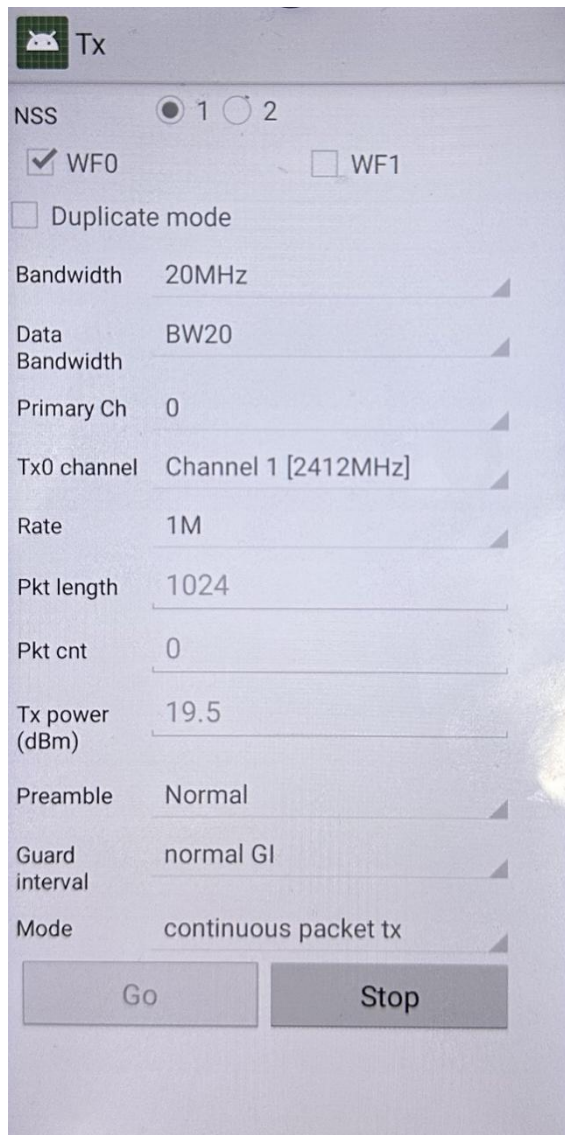
AE ID*	Description	dB*
AE1	RF cable	1dB

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

dB\*: is provided customer.

**3.5. EUT Test RF Confagle Configuration**

EUT uses MTK working control emission measurement, Change power level, channel, rate and HT .



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## 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 Part 15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz	--
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB 558074	Guidance for Performing Compliance Measurements on Frequency Hopping Spread Spectrum systems (DSS) Operating Under §15.247	2019

Note: KDB 558074 is not A2LA certified.

## 5. Test Equipments Utilized

### 5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	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	62015L-60-6	L02000001587	--	--	Chroma	1 Year	2024-06-28

### 5.2. RSE and CE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	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
								2024-10-28
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
8	2-Line V-Network	ENV216	102368	--	--	R&S	1 Year	2024-05-27
9	Test Receiver	ESR 3	101382	03	3.48 SP2	R&S	1 Year	2024-01-28
10	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	1 Year	2024-06-28

### 5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
--	--	--	--	--	--

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**5.4. Anechoic chamber Vibration table**

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Fully-Anechoic Chamber	FAC5	--	TDK	2024-09-22
2	Anechoic Chamber	SAC 10	--	TDK	2026-08-26

**5.5. Test software**

No.	Name	version	SN	Manufacture
1	EMC32 (Transmitter Spurious Emission-Radiated Above 1GHz)	V 10.20.01	--	R&S
2	EMC32 (Transmitter Spurious Emission-Radiated Below 1GHz)	V9.26.01	--	R&S
3	EMC32 (AC Powerline Conducted Emission)	V 10.40.10	--	R&S

## 6. Test Results

### 6.1. Summary of Test Results

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

IC Rules	Name of Test	Result
15.247(b)	Duty cycle	Pass (NOTE2)
15.247(b)	Maximum Peak Output Power	Pass (NOTE2)
15.247(e)	Peak Power Spectral Density	Pass (NOTE2)
15.247(a)	Occupied Bandwidth	Pass (NOTE2)
15.247(d)	Band Edges Compliance	Pass (NOTE2)
15.247(d)	Transmitter Spurious Emission-Conducted	Pass (NOTE2)
15.247/15.205/15.209	Transmitter Spurious Emission-Radiated	Pass
15.207	AC Powerline Conducted Emission	Pass (NOTE2)

**NOTE:**

The MobiWire H6322, Altice 535, manufactured by MobiWire SAS is a variant product for testing. This project is a variant project based on the original report 123IW30020-WIFI 2.4G RF, We tested the worst mode of radiated spurious emission in the original report, and the test data of the worst mode was recorded in the report.

**NOTE2:**

The test verdict of this item come form the original report.

The differences between S1 (Mainly Supply) & S2 (Secondary Supply) are shown in the table below:

Difference	Config 1: S1 (Mainly Supply)	Config 2: S2 (Secondary Supply)
CPU	MT8766V	MT6761V
Memory- ROM	HSEMSDS6S2B32G	KSI EMMC32G-PJ30
Memory- RAM	CXDB4ABAM-MK	micron FLXC2002G-N2
G-sensor	slan SC7A20ETR	sensortek STK8BA58
P-sensor	MN78912	Liteon LTR-569ALS-02

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## 6.2. Transmitter Spurious Emission-Radiated

<b>Specifications:</b>	FCC 47 Part 15.247/15.205/15.209
<b>DUT Serial Number:</b>	S4 S6
<b>Test conditions:</b>	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

### Limit Level Construction:

Standard	Limit
FCC 47 Part 15.247/15.205/15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in 25.205(a), must also comply with the radiated emission limits specified in 15.209(a)(see 15.205(c)).

The measurement is according to ANSI C63.10 clause 11.11 and 11.12.

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009~0.49	2400/F (kHz)	129-94
0.49~1.705	24000/F (kHz)	74-63
1.705~30	30	70
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

### Measurement Uncertainty:

Measurement Uncertainty	<p>30MHz-150MHz: 3.79 dB (k=2).</p> <p>150MHz-1000MHz: 3.51dB (k=2).</p> <p>1000MHz-6000MHz: 4.84 dB (k=2).</p> <p>6000MHz-18000MHz: 4.52 dB (k=2).</p>
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### Test procedures:

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a nonconducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be

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**Report No.: I23W00045-WIFI 2.4G RF**

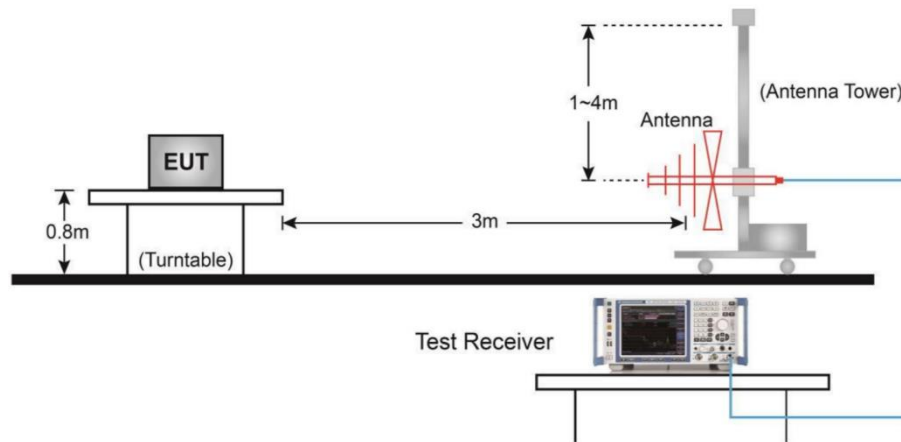
larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.4-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During testing, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emission from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission	RBW/VBW	Sweep Time (s)
0.009~30	9KHz/30KHz	Auto
30~1000	100KHz/300KHz	5
1000~4000	1MHz/3MHz	15
4000~18000	1MHz/3MHz	40
18000~26500	1MHz/3MHz	20

**Test Setup:**

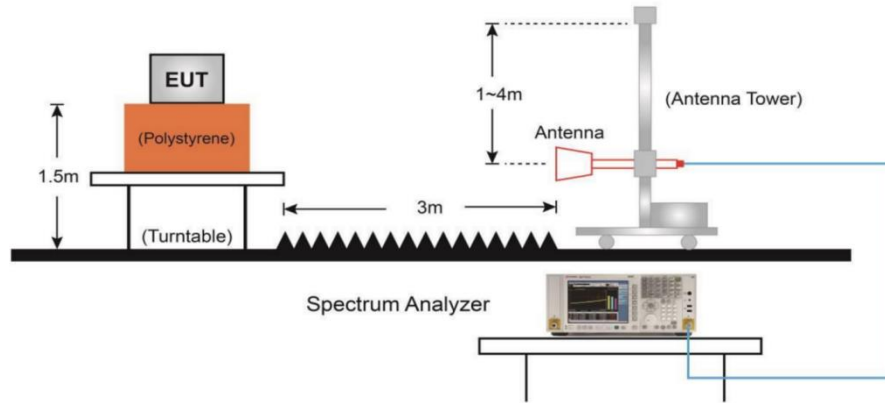
Below 1GHz Test Setup



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Above 1GHz Test Setup



Frequency of emission (MHz)	RBW/VBW	Sweep Times (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/3MHz	15
4000~18000	1MHz/3MHz	40
18000~26500	1MHz/3MHz	20

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**Measurement Results:**

A "reference path loss" is established and  $A_{Rpi}$  is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

$P_{Mea}$  is the field strength recorded from the instrument.

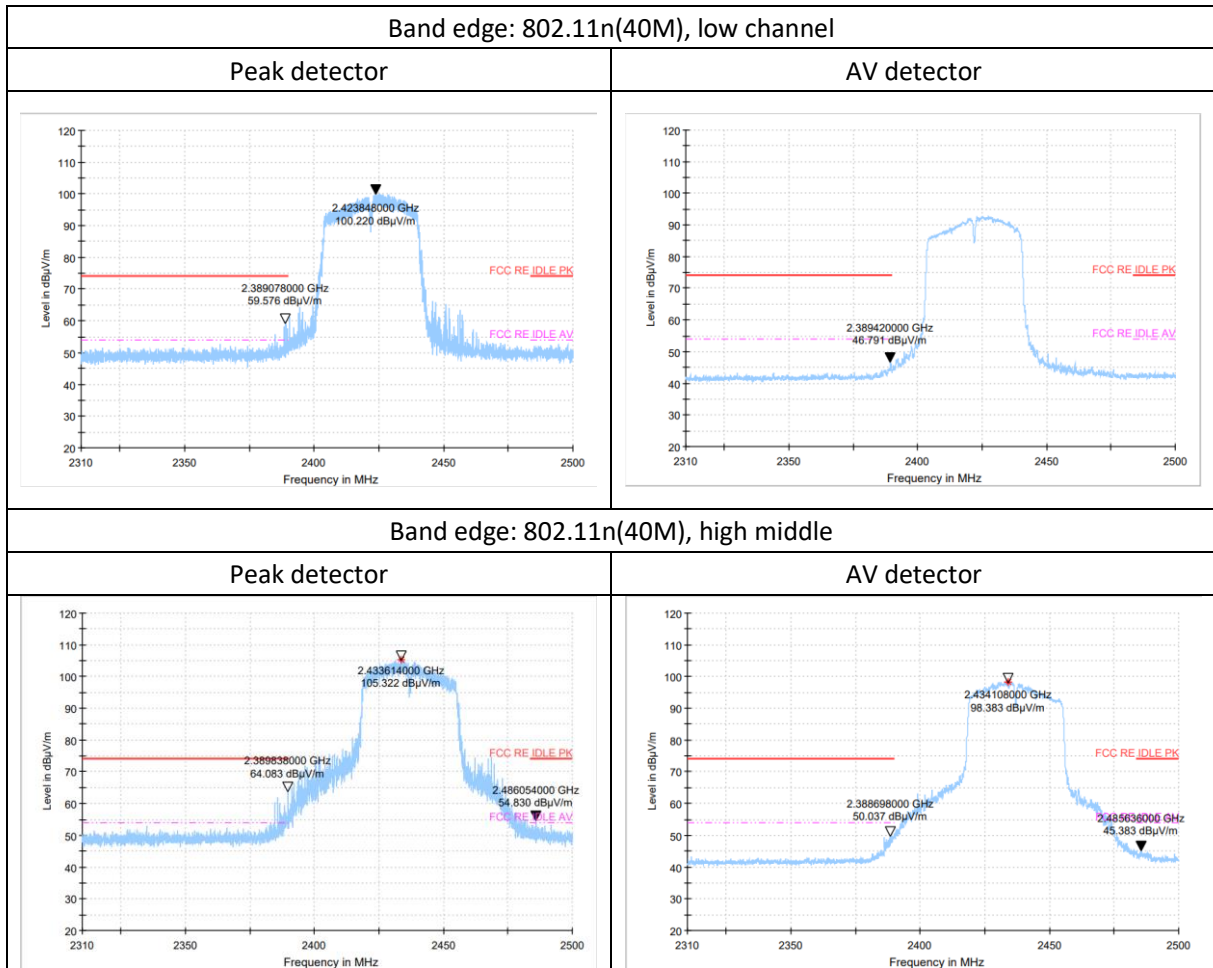
The measurement results are obtained as described below:

$$A_{Rpi} = \text{Cable loss} + \text{Antenna Factor} - \text{Preamplifier gain}$$

$$\text{Result} = P_{Mea} + \text{Cable loss} + \text{Antenna Factor} - \text{Preamplifier gain} = P_{Mea} + A_{Rpi}$$

The test data below 30MHz is more than 20dB lower than the limit value, so it is not provided in the report.

Mainly Supply

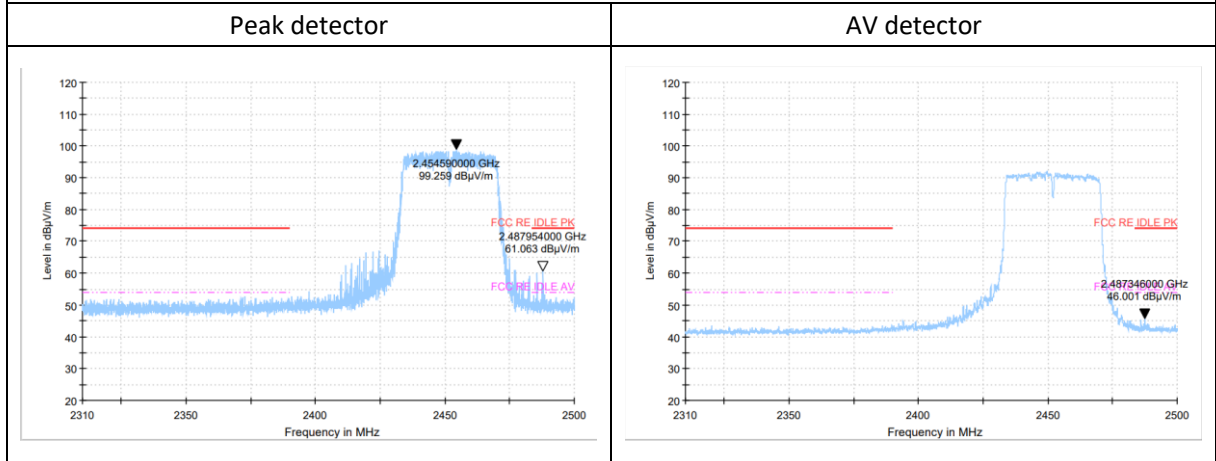


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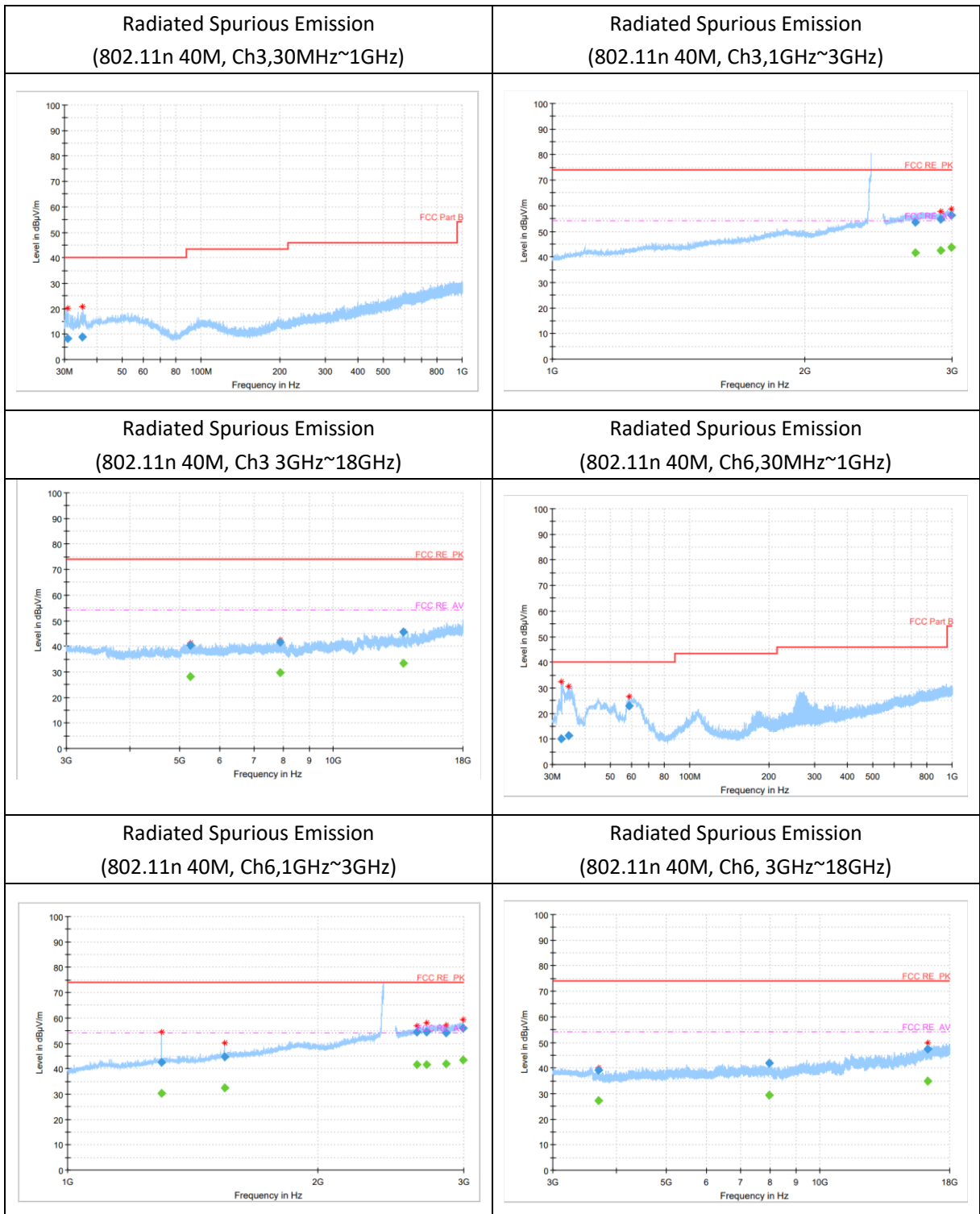


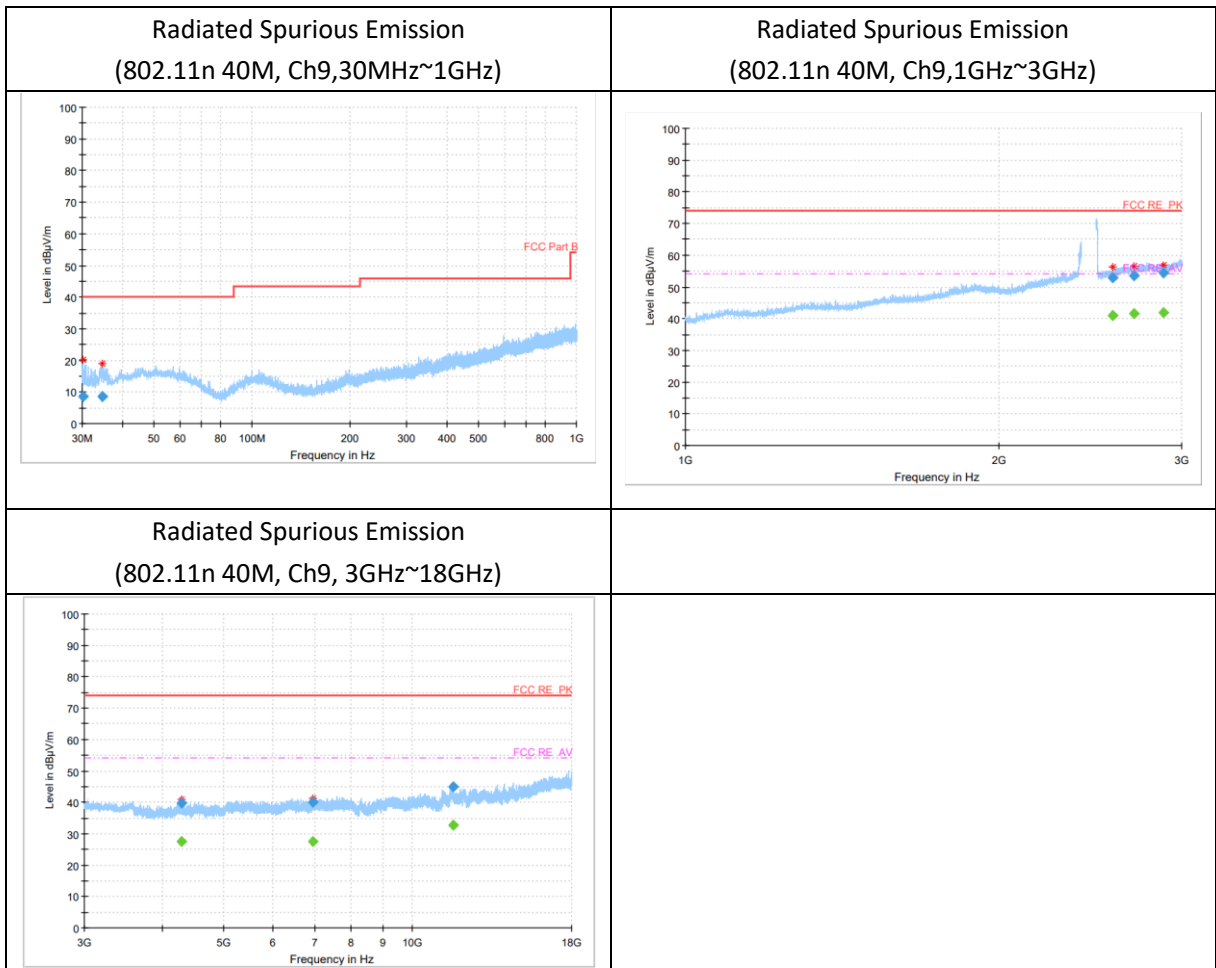
Band edge: 802.11n(40M), high channel



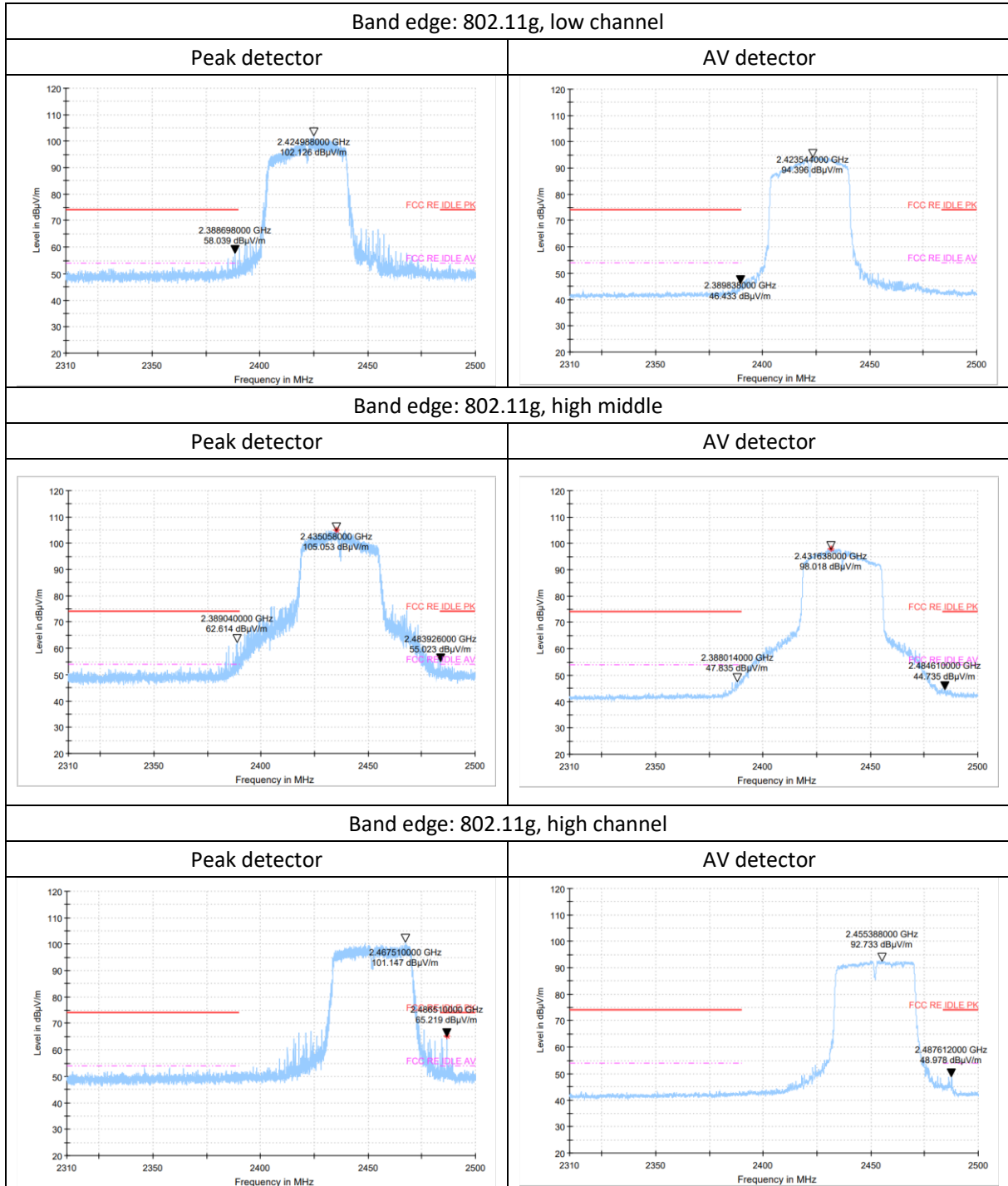
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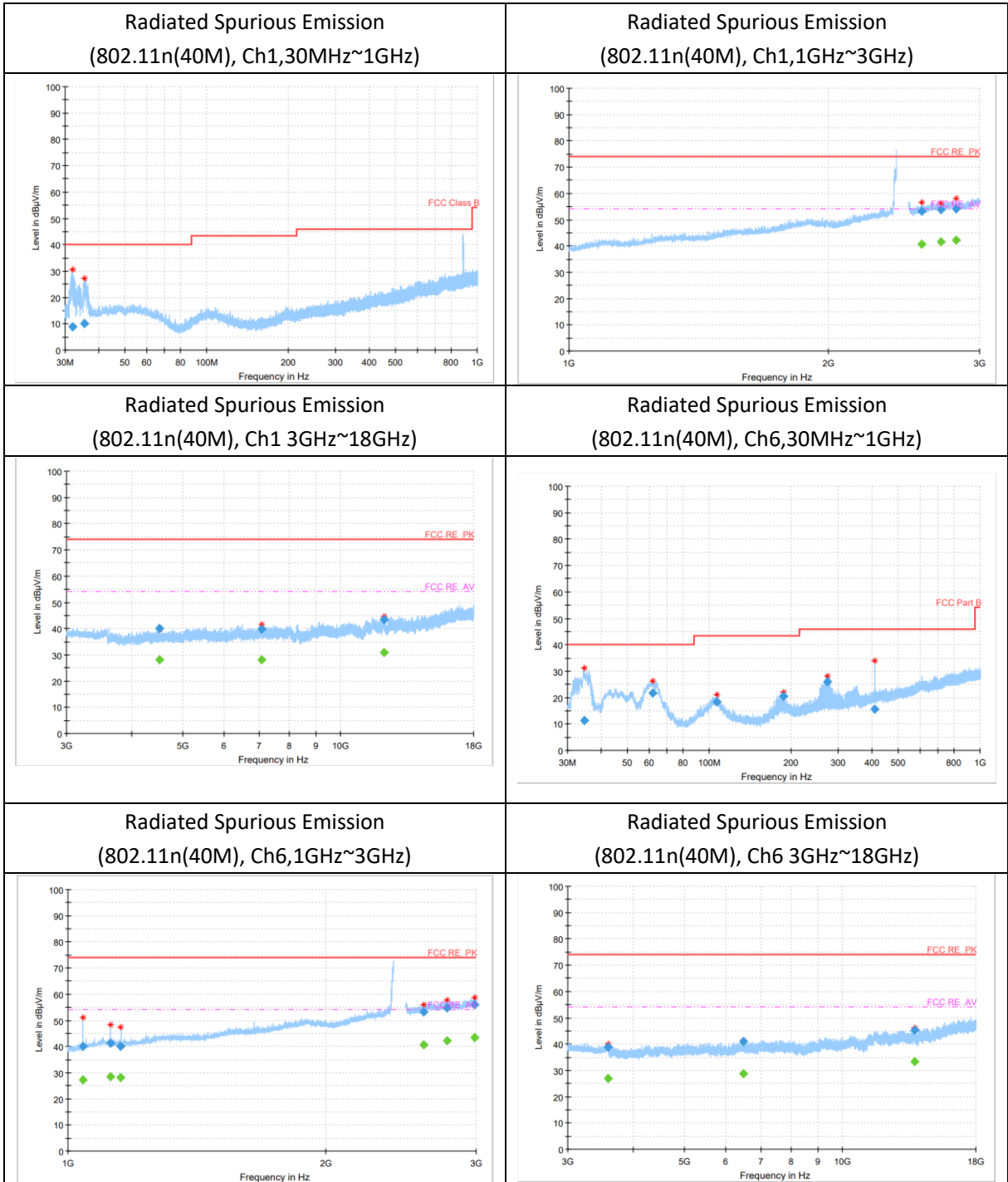


Second supply



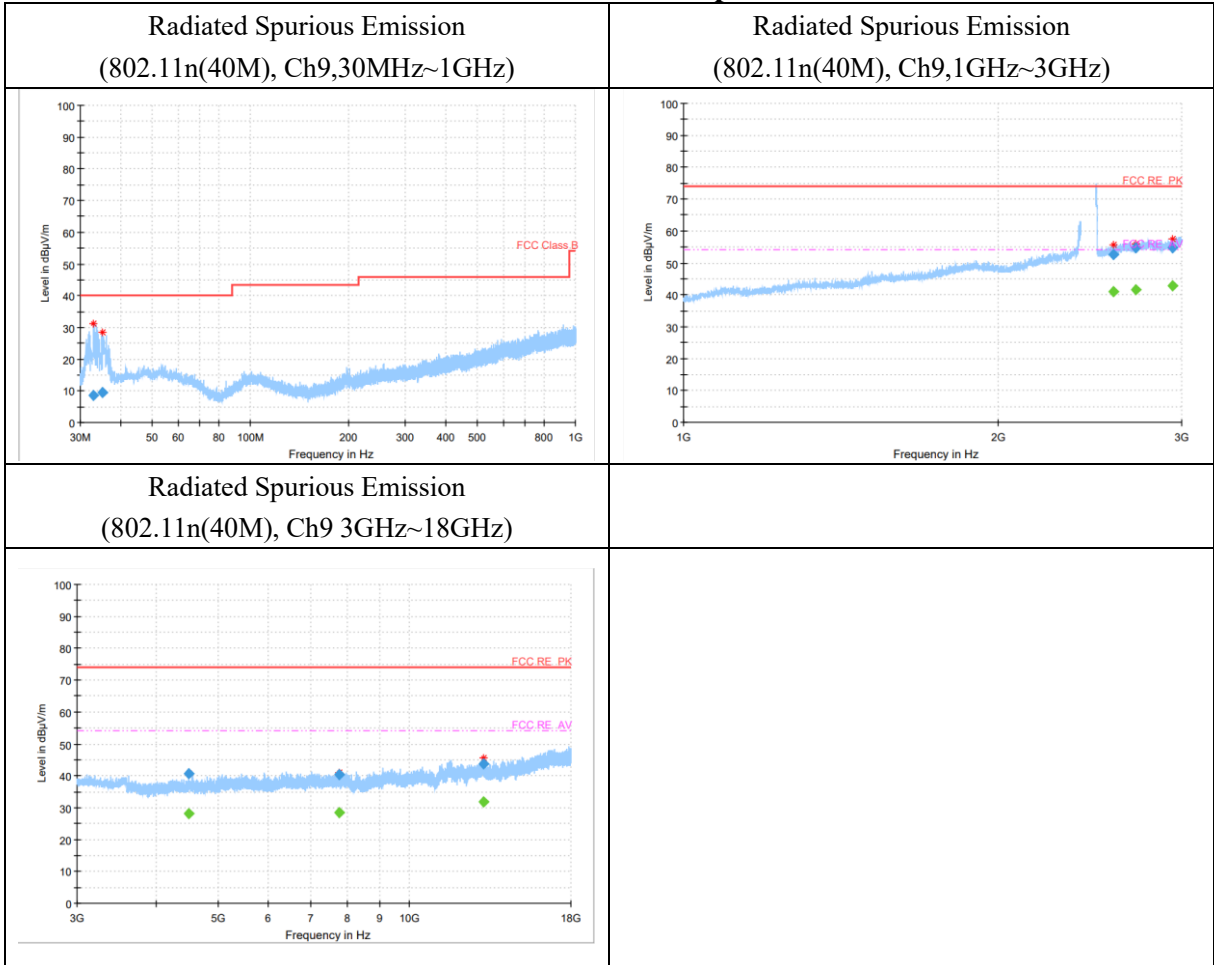
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Mainly Supply

**RSE-11N(40M)-CH3-30M-1G**

Frequency (MHz)	Result (dB $\mu$ V/m)	ARpl (dB)	PMea (dB $\mu$ V/m)	Polarity
30.9	8.2	-16	24.2	H
35.2	8.75	-15	23.75	H

**RSE-11N(40M)-CH3-1G-3G**

Frequency (MHz)	Result (dB $\mu$ V/m)	ARpl (dB)	PMea (dB $\mu$ V/m)	Polarity
2709.8	53.66	17	36.66	H
2909.4	54.6	18	36.6	H
2992.1	56.18	19	37.18	H

**RSE-11N(40M)-CH3-1G-3G (Average)**

Frequency (MHz)	Result (dB $\mu$ V/m)	ARpl (dB)	PMea (dB $\mu$ V/m)	Polarity
2909.4	42.57	18	24.57	H
2992.1	43.59	19	24.59	H

**RSE-11N(40M)-CH3-3G-18G**

Frequency (MHz)	Result (dB $\mu$ V/m)	ARpl (dB)	PMea (dB $\mu$ V/m)	Polarity
5258.0	40.47	-2	42.47	V
7883.0	41.7	-2	43.7	H
13728.5	45.64	4	41.64	H

**RSE-11N(40M)-CH6-30M-1G**

Frequency (MHz)	Result (dB $\mu$ V/m)	ARpl (dB)	PMea (dB $\mu$ V/m)	Polarity
32.5	10.23	-16	26.23	V
34.6	11.35	-15	26.35	V
58.7	23	-12	35	V

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**RSE-11N(40M)-CH6-1G-3G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
1297.1	42.65	6	36.65	V
1546.4	44.5	8	36.5	V
2630.7	54.46	17	37.46	H
2706.2	54.4	17	37.4	H
2857.6	54.13	18	36.13	H
2995.4	56	19	37	H

**RSE-11N(40M)-CH6-1G-3G(Average)**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2630.7	41.56	17	24.56	H
2706.2	41.53	17	24.53	H
2857.6	42	18	24	H
2995.4	43.57	19	24.57	H

**RSE-11N(40M)-CH6-3G-18G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
3681.7	39.06	-6	45.06	H
7959.6	41.82	-1	42.82	H
16301.6	47.48	9	38.48	H

**RSE-11N(40M)-CH9-30M-1G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
30.2	8.44	-15	23.44	H
34.6	8.54	-15	23.54	H

**RSE-11N(40M)-CH9-1G-3G**

Frequency	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
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(MHz)				
2575.7	52.78	16	36.78	V
2701.6	53.46	17	36.46	V
2879.6	54.34	18	36.34	V

**RSE-11N(40M)-CH9-1G-3G (Average)**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2879.6	41.82	18	23.82	V

**RSE-11N(40M)-CH9-3G-18G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
4294.6	39.83	-5	44.83	H
6941.5	39.97	-2	41.97	H
11651.8	44.98	3	41.98	H

## Secondary Supply

**RSE-11N(40M)-CH3-30M-1G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
32.0	8.93	-16	24.93	V
35.5	9.98	-15	24.98	V

**RSE-11N(40M)-CH3-1G-3G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2568.9	53.16	16	37.16	H
2706.2	53.95	17	36.95	H
2814.6	54.06	18	36.06	H

**RSE-11N(40M)-CH3-1G-3G (Average)**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
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2814.6	42.34	18	24.34	H
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**RSE-11N(40M)-CH3-3G-18G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
4514.1	40.2	-4	44.2	H
7076.6	39.91	-2	41.91	H
12127.6	43.29	3	40.29	H

**RSE-11N(40M)-CH6-30M-1G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
34.5	11.33	-15	26.33	V
61.9	21.76	-13	34.76	V
107.0	18.29	-13	31.29	H
188.1	20.47	-14	34.47	H
272.2	25.88	-11	36.88	H
407.4	15.6	-7	22.6	V

**RSE-11N(40M)-CH6-1G-3G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
1040.9	39.93	2	37.93	V
1120.4	41.16	4	37.16	V
1152.9	39.91	3	36.91	V
2606.1	53.19	16	37.19	V
2771.7	54.76	18	36.76	H
2983.3	55.93	19	36.93	H

**RSE-11N(40M)-CH6-1G-3G (Average)**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2771.7	42.16	18	24.16	H

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2983.3	43.57	19	24.57	H
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**RSE-11N(40M)-CH6-3G-18G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
3581.1	38.98	-6	44.98	V
6493.0	40.96	-2	42.96	H
13728.3	45.3	4	41.3	H

**RSE-11N(40M)-CH9-30M-1G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
33.0	8.69	-16	24.69	V
35.1	9.38	-15	24.38	V

**RSE-11N(40M)-CH9-1G-3G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2581.2	52.62	16	36.62	V
2713.7	54.73	17	37.73	V
2938.2	54.6	19	35.6	V

**RSE-11N(40M)-CH9-1G-3G (Average)**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2713.7	41.69	17	24.69	V
2938.2	42.84	19	23.84	V

**RSE-11N(40M)-CH9-3G-18G**

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
4503.0	40.58	-4	44.58	H
7761.4	40.42	-2	42.42	H

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13094.1	43.72	4	39.72	H
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Note1: The out-of- limit signal in the picture is the main frequency signal.

Note2: Only data in worst mode is provided.

Note3: Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier, the Emissions in the frequency band 18GHz-40GHz is more than 20dB below the limit are not report.

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**6.3. ANNEX A EUT Photos**

See the document” I23W00045-External Photos”.

See the document” I23W00045-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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