



TEST REPORT

No. I20D00005-SRD03

For

Client: Micronet

Production: Micronet SmartCam (ENH)

Model Name: Micronet SmartCam

Brand Name: TREQ

FCC ID: U80-A9

IC ID: 12186A-A9

Hardware Version: 1.01

Software Version: OS SW: ver_9.10.x

Issued date: 2020-07-29

NOTE

1. The test results in this test report relate only to the devices specified in this report.
2. This report shall not be reproduced except in full without the written approval of East China Institute of Telecommunications.
3. For the test results, the uncertainty of measurement is not taken into account when judging the compliance with specification, and the results of measurement or the average value of measurement results are taken as the criterion of the compliance with specification directly.

Test Laboratory:

East China Institute of Telecommunications

Add: Block No.4, No.766, Jingang Road, Pudong District, Shanghai, P. R. China

Tel: +86 21 63843300

E-Mail: welcome@ecit.org.cn

Revision Version

Report Number	Revision	Date	Memo
I20D00005-SRD03	00	2020-07-29	Initial creation of test report

CONTENTS

1. TEST LABORATORY	5
1.1. TESTING LOCATION	5
1.2. TESTING ENVIRONMENT	5
1.3. PROJECT DATA	5
1.4. SIGNATURE	5
2. CLIENT INFORMATION	6
2.1. APPLICANT INFORMATION	6
2.2. MANUFACTURER INFORMATION	6
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	7
3.1. ABOUT EUT	7
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	7
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	7
4. REFERENCE DOCUMENTS	8
4.1. DOCUMENTS SUPPLIED BY APPLICANT	8
4.2. REFERENCE DOCUMENTS FOR TESTING	8
5. TEST RESULTS	9
5.1. SUMMARY OF TEST RESULTS	9
5.2. STATEMENTS	10
6. TEST EQUIPMENTS UTILIZED	11
6.1. RADIATED EMISSION TEST SYSTEM	11
7. MEASUREMENT UNCERTAINTY	12
8. TEST ENVIRONMENT	13
ANNEX A. DETAILED TEST RESULTS	14
ANNEX A.1. TRANSMITTER SPURIOUS EMISSION-RADIATED	14
ANNEX B. ACCREDITATION CERTIFICATE	28

1. Test Laboratory

1.1. Testing Location

Company Name	East China Institute of Telecommunications
Address	Block No.4, No.766, Jingang Road, Pudong District, Shanghai, P. R. China
Postal Code	201206
Telephone	+86 21 63843300
FCC registration No	CN1177

1.2. Testing Environment

Normal Temperature	15°C-35°C
Relative Humidity	20%-75%

1.3. Project Data

Project Leader	Zhou Yan
Testing Start Date	2020-03-21
Testing End Date	2020-04-22

1.4. Signature



Liu Yan
 (Prepared this test report)



Fan Songyan
 (Reviewed this test report)



Zheng Zhongbin
 (Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name	Micronet
Address	1865 West 2100 South, Suite 2 Salt Lake City, Utah 84119 United States
Telephone	+1-801-990-8700
Postcode	84119

2.2. Manufacturer Information

Company Name	Micronet
Address	1865 West 2100 South, Suite 2 Salt Lake City, Utah 84119 United States
Telephone	+1-801-990-8700
Postcode	84119

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

3.1. About EUT

Production	Micronet SmartCam (ENH)
Model name	Micronet SmartCam
WLAN Frequency(2.4G)	2412MHz-2462MHz
WLAN Channel(2.4G)	Channel1-Channel11
WLAN type of modulation	802.11b:DSSS 802.11g/n: OFDM
Additional Communication Function	BT/BLE/2.4G WLAN 802.11 b/g/n20/n40/5G WLAN 802.11 a/n20/n40/ac20/ac40
Extreme Temperature	-20/+70°C
Nominal Voltage	12/24V
Extreme High Voltage	32V
Extreme Low Voltage	8V
Maximum of Antenna Gain	WIFI2.4GHz: 6dBi

Note:

- a. Photographs of EUT are shown in ANNEX A of this test report.
- b. The value of the antenna gain is provided by the customer. For specific antenna information, please check the antenna specifications of the customer.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N01	/	1.01	OS SW: ver_9.10.x	2020-01-08

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	Manufacturer
AE1	RF cable	---	AE1

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

4. Reference Documents

4.1. Documents supplied by applicant

All technical documents are 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 Part15	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.	2018-10-01
ANSI 63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB558074	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247	v05r02
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	2017
RSS-Gen	General Requirements for Compliance of Radio Apparatus	2018

5. Test Results

5.1. Summary of Test Results

Measurement Items	Sub-clause of Part15	Sub-clause of IC	Verdict
Transmitter Spurious Emission-Radiated	15.247,15.209,	RSS-GEN,8.8	P

Note: please refer to Annex A in this test report for the detailed test results.

Please refer to part 5 for detail.

The measurements are according to Public notice KDB558074 and ANSI C63.10.

Terms used in Verdict column

The following terms are used in the above table.

P	Pass, the EUT complies with the essential requirements in the standard.
NP	Not Perform, the test was not performed by ECIT.
NA	Not Applicable, the test was not applicable.
F	Fail, the EUT does not comply with the essential requirements in the standard.

Test Conditions

Tnom	Normal Temperature
Tmin	Low Temperature
Tmax	High Temperature
Vnom	Normal Voltage
Vmin	Low Voltage
Vmax	High Voltage
Hnom	Norm Humidity
Anom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	Tnom	25°C
Voltage	Vnom	3.8V
Humidity	Hnom	48%
Air Pressure	Anom	1010hPa

5.2. Statements

The Micronet SmartCam is a new product for testing.

ECIT only performed test cases which identified with P/NP/NA/F results in Annex A.

In this report, we only retest the radiation emission, and report the worst data at 12V. And the conduct test results please refer to report No: I19D00117-SRD03-2.4GWLAN, which was prepared by East China Institute of Telecommunications.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

6. Test Equipments Utilized

6.1. Radiated Emission Test System

Item	Instrument Name	Type	SN	Manufacturer	Cal. Date	Cal. interval
1	Universal Radio Communication Tester	CMU200	123123	R&S	2019-05-10	1 year
2	EMI Test Receiver	ESU40	100307	R&S	2019-05-10	1 year
3	TRILOG Broadband Antenna	VULB9163	VULB9163-515	Schwarzbeck	2020-02-28	2 years
4	Double- ridged Waveguide Antenna	ETS-3117	00135890	ETS	2020-02-28	2 years
5	2-Line V-Network	ENV216	101380	R&S	2019-05-10	1 year

Anechoic chamber

Fully anechoic chamber by ETS

7. Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in ECIT documents . The detailed measurement uncertainty is defined in ECIT documents.

Measurement Items	Range	Confidence Level	Calculated Uncertainty
Peak Output Power-Conducted	2412MHz-2462MHz	95%	$\pm 0.544\text{dB}$
Peak Power Spectral Density	2412MHz-2462MHz	95%	$\pm 0.544\text{dB}$
Occupied 6dB Bandwidth	2412MHz-2462MHz	95%	$\pm 62.04\text{Hz}$
Frequency Band Edges-Conducted	2412MHz-2462MHz	95%	$\pm 0.544\text{dB}$
Conducted Emission	30MHz-2GHz	95%	$\pm 0.90\text{dB}$
Conducted Emission	2GHz-3.6GHz	95%	$\pm 0.88\text{dB}$
Conducted Emission	3.6GHz-8GHz	95%	$\pm 0.96\text{dB}$
Conducted Emission	8GHz-20GHz	95%	$\pm 0.94\text{dB}$
Conducted Emission	20GHz-22GHz	95%	$\pm 0.88\text{dB}$
Conducted Emission	22GHz-26GHz	95%	$\pm 0.86\text{dB}$
Transmitter Spurious Emission-Radiated	9KHz-30MHz	95%	$\pm 5.66\text{dB}$
Transmitter Spurious Emission-Radiated	30MHz-1000MHz	95%	$\pm 4.98\text{dB}$
Transmitter Spurious Emission-Radiated	1000MHz -18000MHz	95%	$\pm 5.06\text{dB}$
Transmitter Spurious Emission-Radiated	18000MHz -40000MHz	95%	$\pm 5.20\text{dB}$
AC Power line Conducted Emission	0.15MHz-30MHz	95%	$\pm 3.66\text{ dB}$

8. Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5 Ω

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

ANNEX A. Detailed Test Results

ANNEX A.1. Transmitter Spurious Emission-Radiated

A.1.1 Measurement Limit:

Standard	Limit
FCC 47 CFR 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.

A.1.2 Limit in restricted band:

Frequency of emission(MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

A.1.3 Test procedures

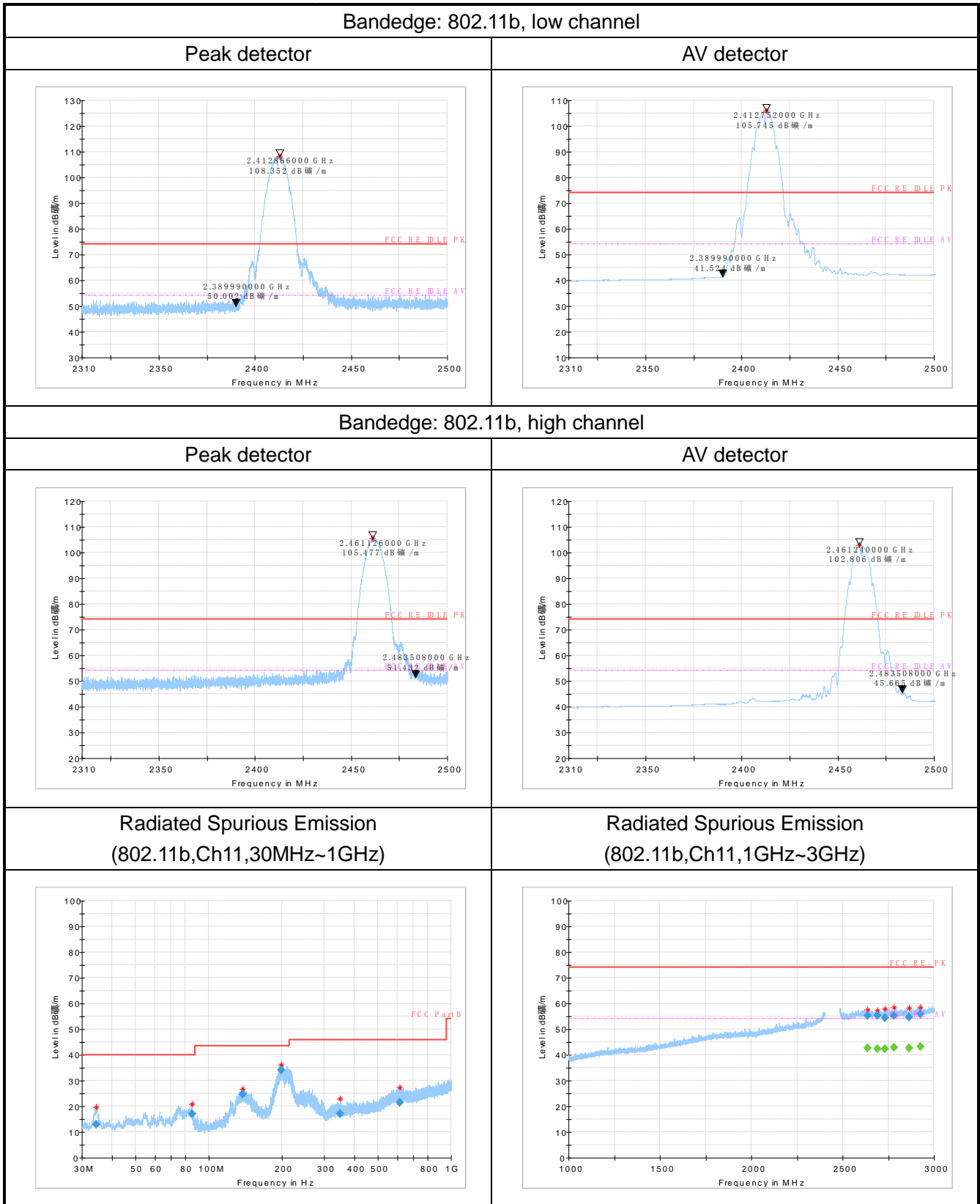
Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a nonconducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5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

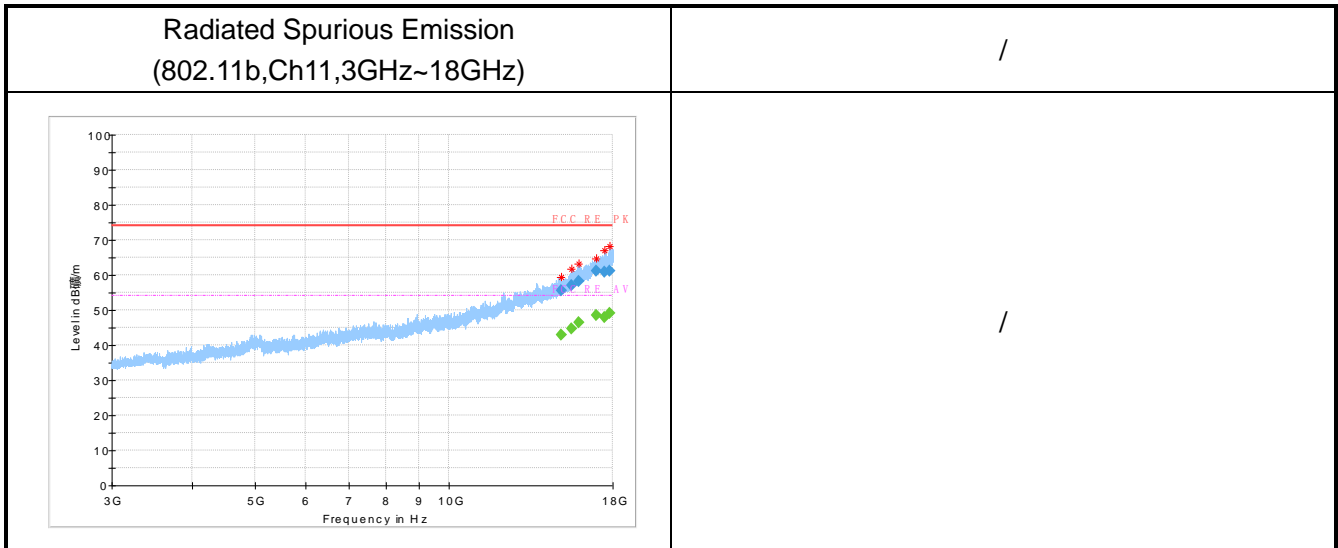
The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During testing, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emission from the EUT. This maximization process was repeated with the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

Frequency of emission (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

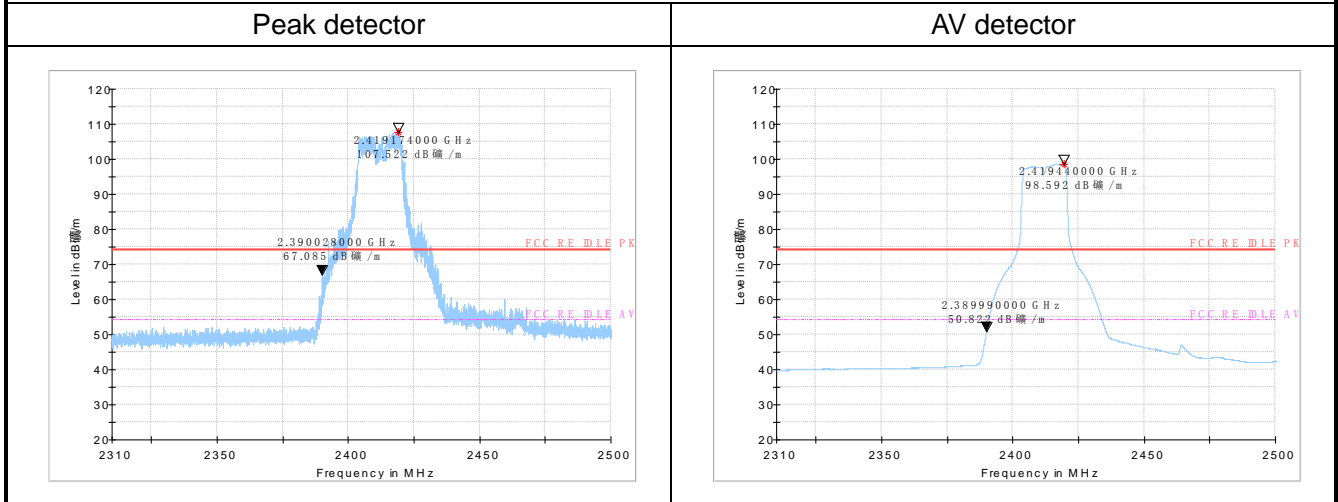
Measurement Results:

This data is obtained by testing at 12V

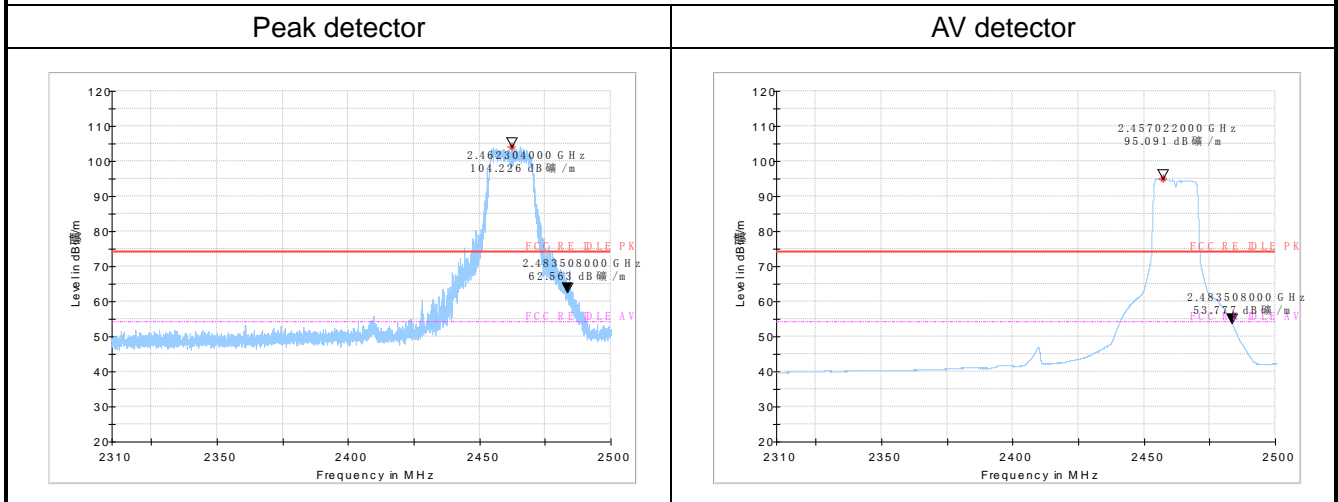




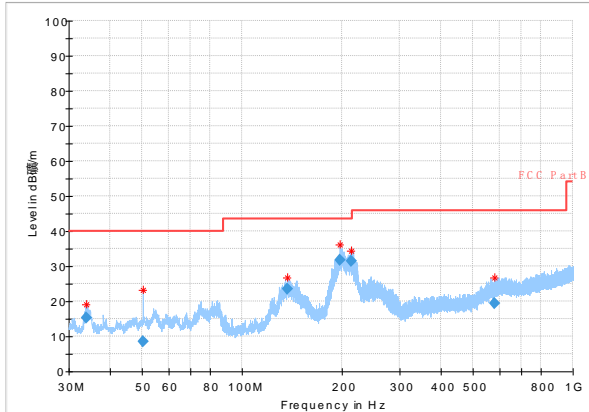
Bandedge: 802.11g, low channel



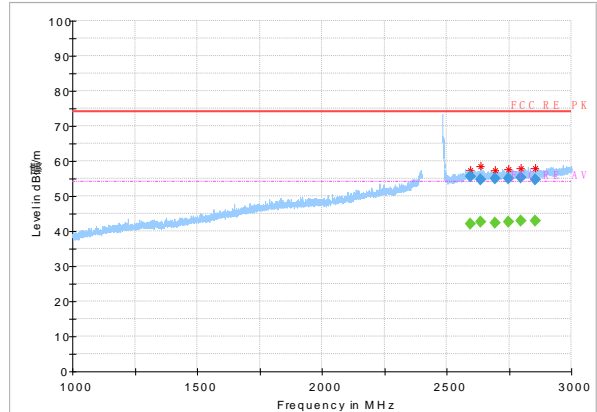
Bandedge: 802.11g, high channel



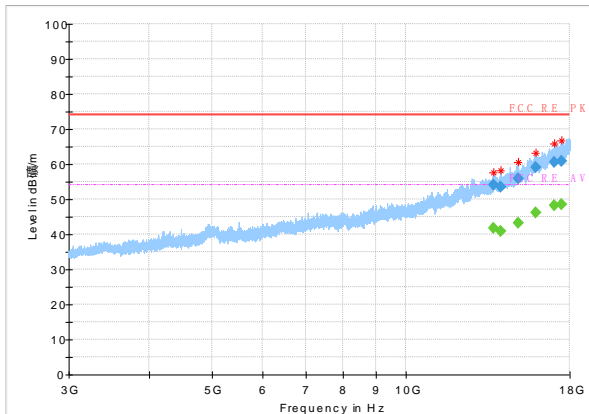
Radiated Spurious Emission
(802.11g, Ch11, 30MHz~1GHz)



Radiated Spurious Emission
(802.11g, Ch11, 1GHz~3GHz)



Radiated Spurious Emission
(802.11g, Ch11, 3GHz~18GHz)

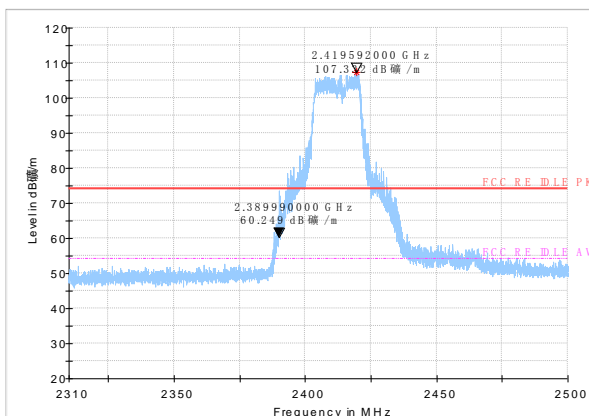


/

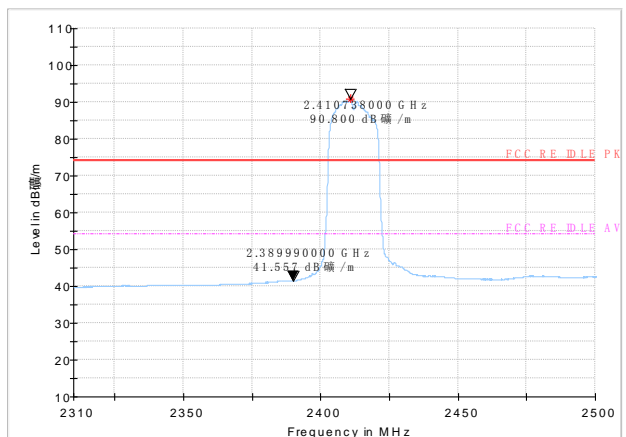
/

Bandedge: 802.11n-20MHz, low channel

Peak detector

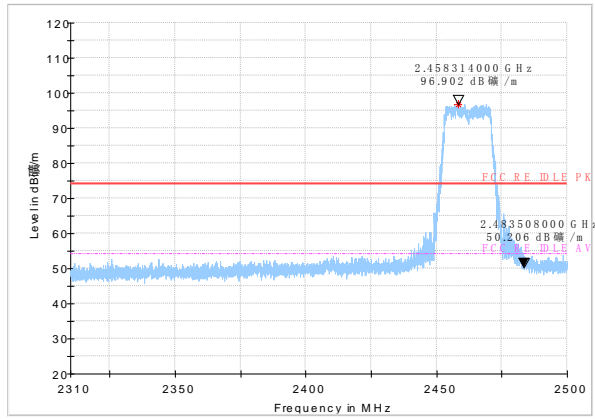


AV detector

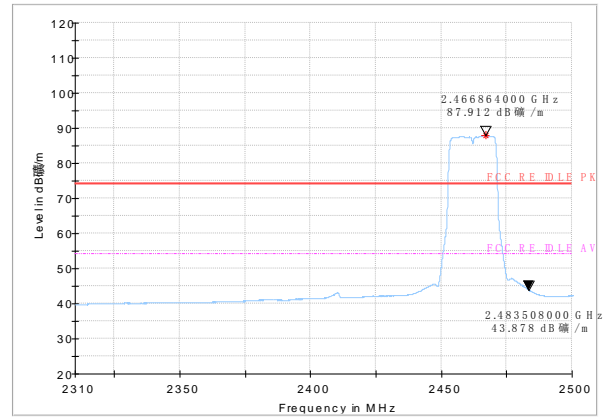
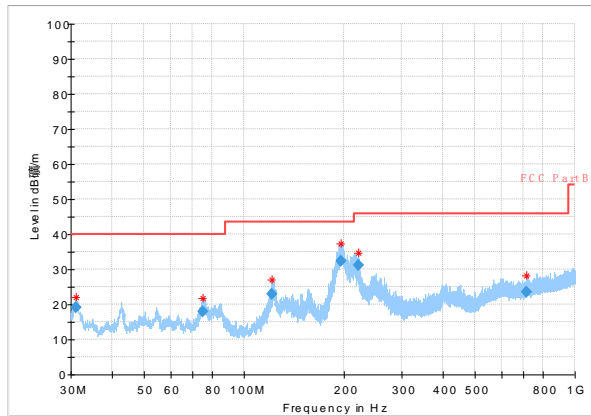
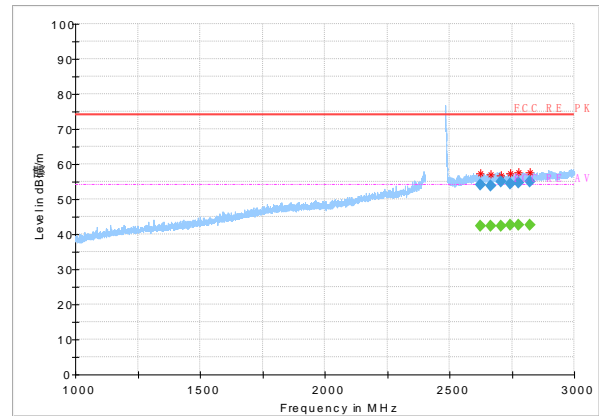
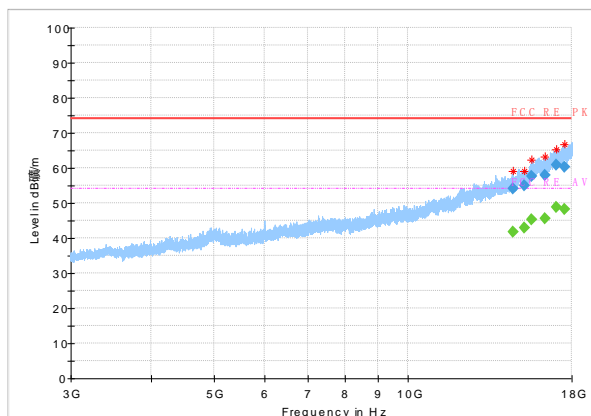


Bandedge: 802.11n-20MHz, high channel

Peak detector

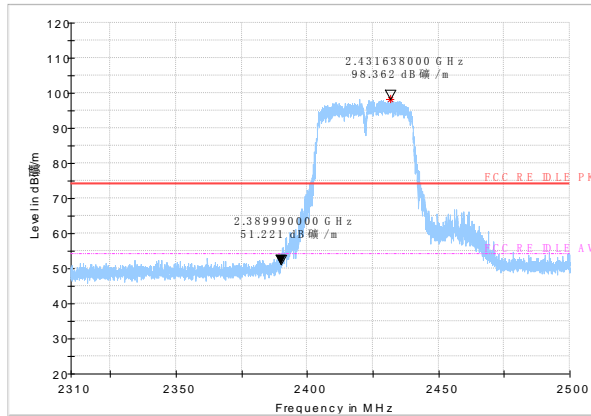
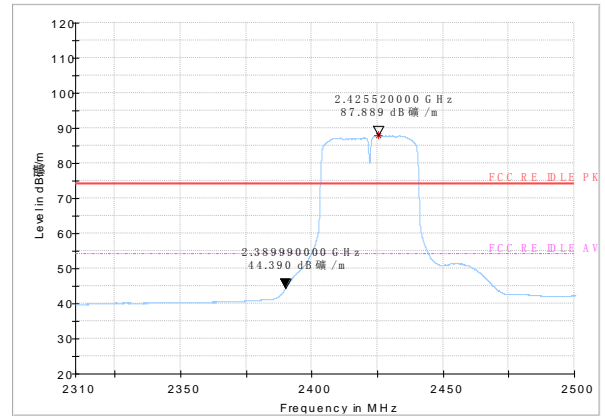
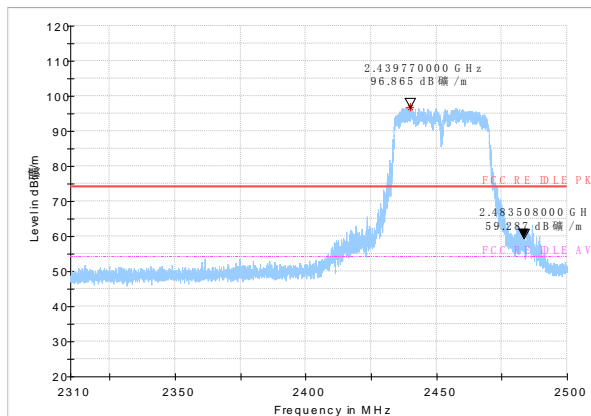
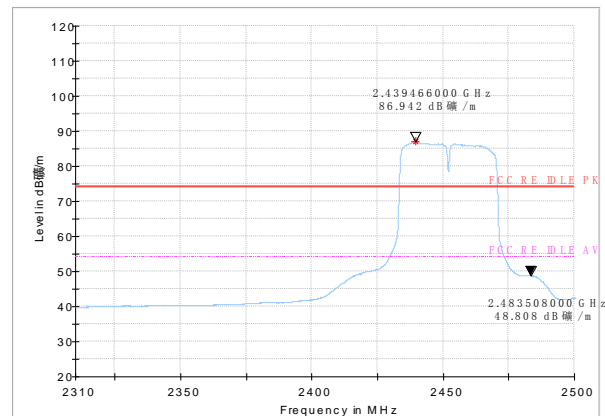
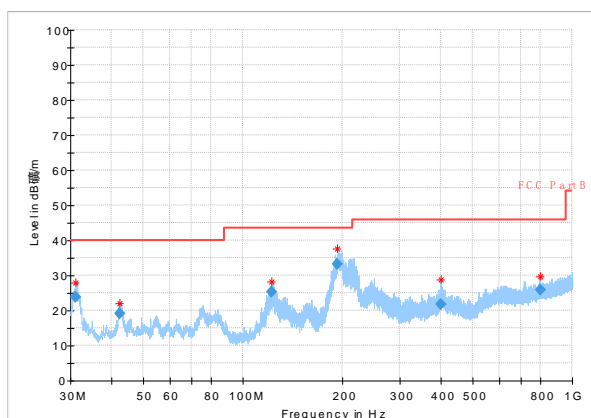
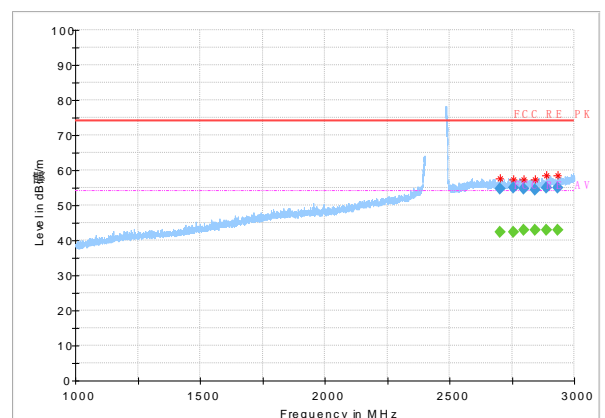


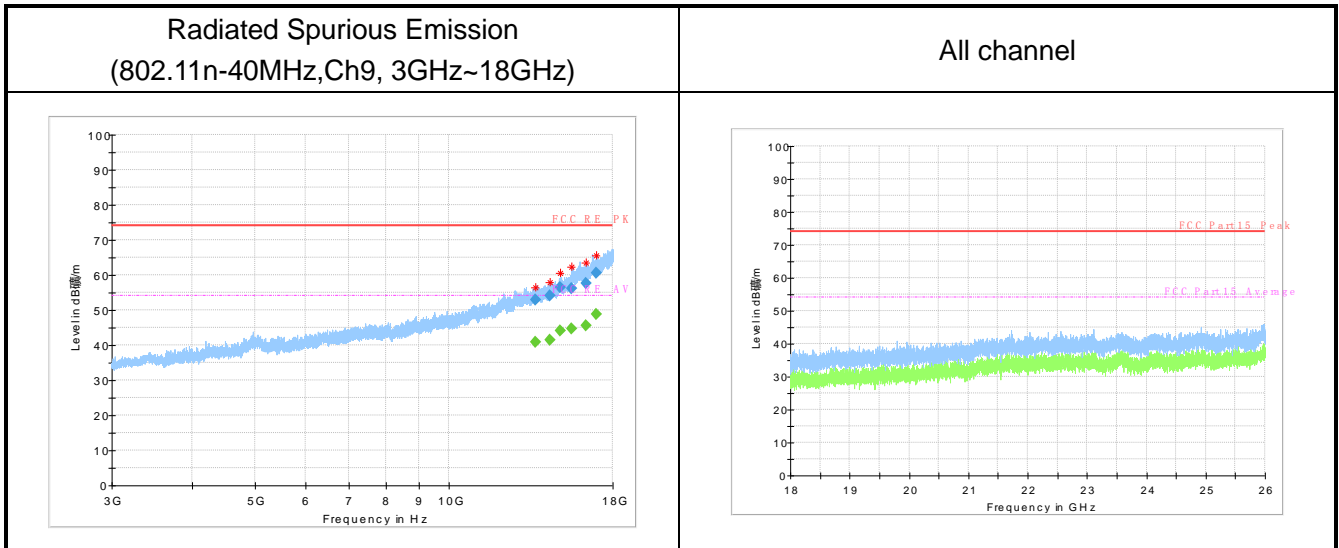
AV detector


 Radiated Spurious Emission
 (802.11n-20MHz, Ch11, 30MHz~1GHz)

 Radiated Spurious Emission
 (802.11n-20MHz, Ch11, 1GHz~3GHz)

 Radiated Spurious Emission
 (802.11n-20MHz, Ch11, 3GHz~18GHz)


/

/

Bandedge: 802.11n-40MHz, low channel
Peak detector

AV detector

Bandedge: 802.11n-40MHz, high channel
Peak detector

AV detector

Radiated Spurious Emission (802.11n-40MHz, Ch9, 30MHz~1GHz)

Radiated Spurious Emission (802.11n-40MHz, Ch9, 1GHz~3GHz)




Note:

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:

$AR_{pi} = \text{Cable loss} + \text{Antenna Gain} - \text{Preamplifier gain}$

$\text{Result} = P_{Mea} + \text{Cable loss} + \text{Antenna Gain} - \text{Preamplifier gain} = P_{Mea} + AR_{pi}$

802.11b mode
Ch11 30MHz~1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
34.5	12.91	-16.7	29.61	V
85.2	16.92	-18	34.92	H
138.3	24.59	-18	42.59	H
198.7	34.12	-15.5	49.62	H
347.7	17.03	-10	27.03	H
612.5	21.4	-2.7	24.1	H

Ch11 1GHz~3GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2638.2	55.28	17.8	37.48	H
2689.1	55.22	17.8	37.42	H
2729.4	54.54	17.9	36.64	H
2782.1	55.32	18.1	37.22	V
2864.3	54.85	18.5	36.35	V
2925.1	55.79	18.7	37.09	V

Ch11 1GHz~3GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2638.2	42.66	17.8	24.86	H
2689.1	42.36	17.8	24.56	H
2729.4	42.39	17.9	24.49	H
2782.1	42.82	18.1	24.72	V
2864.3	42.79	18.5	24.29	V
2925.1	43.11	18.7	24.41	V

Ch11 3GHz~18GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14973.0	55.71	21.6	34.11	H
15556.7	56.94	24.2	32.74	H
15956.7	58.32	25.3	33.02	H
16992.4	61.17	28.3	32.87	H
17469.0	60.87	28.7	32.17	V
17789.3	61.27	29.7	31.57	H

Ch11 3GHz~18GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14973.0	43.03	21.6	21.43	H
15556.7	44.78	24.2	20.58	H
15956.7	46.34	25.3	21.04	H
16992.4	48.66	28.3	20.36	H
17469.0	47.97	28.7	19.27	V
17789.3	49.14	29.7	19.44	H

802.11g mode
Ch11 30MHz~1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
33.8	15.38	-16.8	32.18	V
50.3	8.61	-15.5	24.11	H
137.7	23.67	-18	41.67	H
197.3	31.62	-15.5	47.12	H
213.8	31.58	-14.2	45.78	H
577.9	19.41	-3.9	23.31	H

Ch11 1GHz~3GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2594.5	55.48	17.7	37.78	V
2637.3	54.74	17.8	36.94	V
2695.1	55.1	17.8	37.3	V
2749.1	54.89	18	36.89	H
2796.2	55.21	18.2	37.01	H
2854.6	54.85	18.4	36.45	H

Ch11 1GHz~3GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2594.5	42.17	17.7	24.47	V
2637.3	42.68	17.8	24.88	V
2695.1	42.42	17.8	24.62	V
2749.1	42.71	18	24.71	H
2796.2	42.87	18.2	24.67	H
2854.6	42.84	18.4	24.44	H

Ch11 3GHz~18GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
13708.0	54.2	18.5	35.7	H
14075.4	53.66	19	34.66	H
14955.8	56.02	21.8	34.22	H
15925.5	59.05	25.4	33.65	H
17037.2	60.52	27.8	32.72	V
17504.2	60.83	28.8	32.03	H

Ch11 3GHz~18GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
13708.0	41.73	18.5	23.23	H
14955.8	43.33	21.8	21.53	H
15925.5	46.32	25.4	20.92	H
17037.2	48.23	27.8	20.43	V
17504.2	48.48	28.8	19.68	H

802.11n-20MHz
Ch11 30MHz~1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
31.1	19.03	-16.9	35.93	V
75.4	18.04	-18.7	36.74	V
121.1	23.04	-16.7	39.74	H
195.7	32.36	-15.5	47.86	H
221.2	31.23	-13.8	45.03	H
713.6	23.48	-3.2	26.68	H

Ch11 1GHz~3GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2623.4	54.15	17.8	36.35	H
2663.3	53.85	17.8	36.05	H
2704.6	54.96	17.8	37.16	V
2745.5	54.3	18	36.3	V
2778.5	54.78	18.1	36.68	V
2820.4	54.86	18.3	36.56	H

Ch11 1GHz~3GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2623.4	42.47	17.8	24.67	H
2704.6	42.34	17.8	24.54	V
2745.5	42.72	18	24.72	V
2778.5	42.79	18.1	24.69	V
2820.4	42.75	18.3	24.45	H

Ch11 3GHz~18GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14599.4	54.04	20.1	33.94	H
15191.2	55.07	21.7	33.37	V
15588.0	57.64	24.5	33.14	V
16336.6	57.99	25.3	32.69	H
17004.4	60.83	28.3	32.53	V
17539.9	60.4	28.6	31.8	H

Ch11 3GHz~18GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14599.4	41.76	20.1	21.66	H
15191.2	43.05	21.7	21.35	V
15588.0	45.22	24.5	20.72	V
16336.6	45.47	25.3	20.17	H
17004.4	48.79	28.3	20.49	V
17539.9	48.26	28.6	19.66	H

802.11n-40MHz
Ch9 30MHz~1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
31.2	23.82	-16.9	40.72	V
42.2	18.99	-16	34.99	V
122.5	25.19	-16.9	42.09	H
194.1	33.35	-15.6	48.95	H
399.9	21.89	-8.4	30.29	V
799.8	25.91	-1.7	27.61	V

Ch9 1GHz~3GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2704.2	54.8	17.8	37	H
2756.1	55.13	18	37.13	H
2797.2	54.85	18.2	36.65	V
2841.1	54.45	18.3	36.15	V
2887.0	54.88	18.6	36.28	H
2934.6	55.02	18.8	36.22	V

Ch9 1GHz~3GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2704.2	42.31	17.8	24.51	H
2756.1	42.46	18	24.46	H
2797.2	42.89	18.2	24.69	V
2841.1	42.9	18.3	24.6	V
2887.0	42.95	18.6	24.35	H
2934.6	42.96	18.8	24.16	V

Ch9 3GHz~18GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
13650.4	52.91	18.2	34.71	H
14385.9	54.22	19.4	34.82	H
14906.5	56.42	22.3	34.12	H
15553.3	56.11	24.1	32.01	H
16333.7	57.64	25.3	32.34	H
16999.5	60.64	28.4	32.24	V

Ch9 3GHz~18GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14385.9	41.39	19.4	21.99	H
14906.5	44.12	22.3	21.82	H
15553.3	44.68	24.1	20.58	H
16333.7	45.45	25.3	20.15	H
16999.5	48.79	28.4	20.39	V

Note: Only the worst case is written in the report.

ANNEX B. Accreditation Certificate

Accredited Laboratory

A2LA has accredited

EAST CHINA INSTITUTE OF TELECOMMUNICATIONS
Shanghai, People's Republic of China

for technical competence in the field of
Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-JAF Communiqué dated April 2017).



Presented this 6th day of May 2019.



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3682.01
Valid to February 28, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

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