



TEST REPORT

No. I20D00005-SRD08

For

Client: Micronet

Production: Micronet SmartCam (ENH)

Model Name: Micronet SmartCam

Brand Name: TREQ

FCC ID: U8O-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

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Revision Version

Report Number	Revision	Date	Memo
I20D00005-SRD08	00	2020-07-29	Initial creation of test report

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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℃-35℃
Relative Humidity	20%-75%

1.3. Project Data

Project Leader	Zhou Yan
Testing Start Date	2020-03-22
Testing End Date	2020-03-25

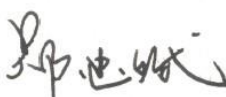
1.4. Signature



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(5G)	802.11 a/n20/n40/ac20/ac40
Frequency Range	ISM Bands: 5725MHz-5850MHz
WLAN type of modulation	OFDM
Extreme Temperature	-20/+70℃
Nominal Voltage	12/24V
Extreme High Voltage	32V
Extreme Low Voltage	8V
Maximum of Antenna Gain	WIFI5.8GHz: 6dBi

Note:

- Photographs of EUT are shown in ANNEX A of this test report.
- 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; Subpart E—Unlicensed National Information Infrastructure Devices	2018-10-01
ANSI 63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
KDB 789033	Information Infrastructure (U-NII) Devices - Part 15, Subpart E	2017
KDB 905462	COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION	2016
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
Band edge compliance	15.407	RSS-247,6.2	P
Transmitter Spurious Emission - Radiated	15.407	RSS-GEN,8.8	P

Note: Please refer to section 6 for detail; please refer to Annex A in this test report for the detailed test results.

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-SRD08-5.8GWLAN, 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
6	Loop Antenna	AL-130R	121083	COM-POWER	2019-12-26	3 years

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	5100MHz-5850MHz	95%	$\pm 1.024\text{dB}$
Peak Power Spectral Density	5100MHz-5850MHz	95%	$\pm 1.024\text{dB}$
Occupied 6dB Bandwidth	5100MHz-5850MHz	95%	$\pm 62.04\text{Hz}$
Frequency Band Edges-Conducted	5100MHz-5850MHz	95%	$\pm 1.024\text{dB}$
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

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC 47 CFR Part 15.407	5725MHz~5850MHz	< -27

The measurement is made according to ANSI C63.10 .

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

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009-0.490	2400/F(kHz)	/
0.490-1.705	24000/F(kHz)	/
1.705-30	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

A.1.1 Transmitter Spurious Emission - Radiated

Modulation type and data rate tested (Only worst case result is given below):

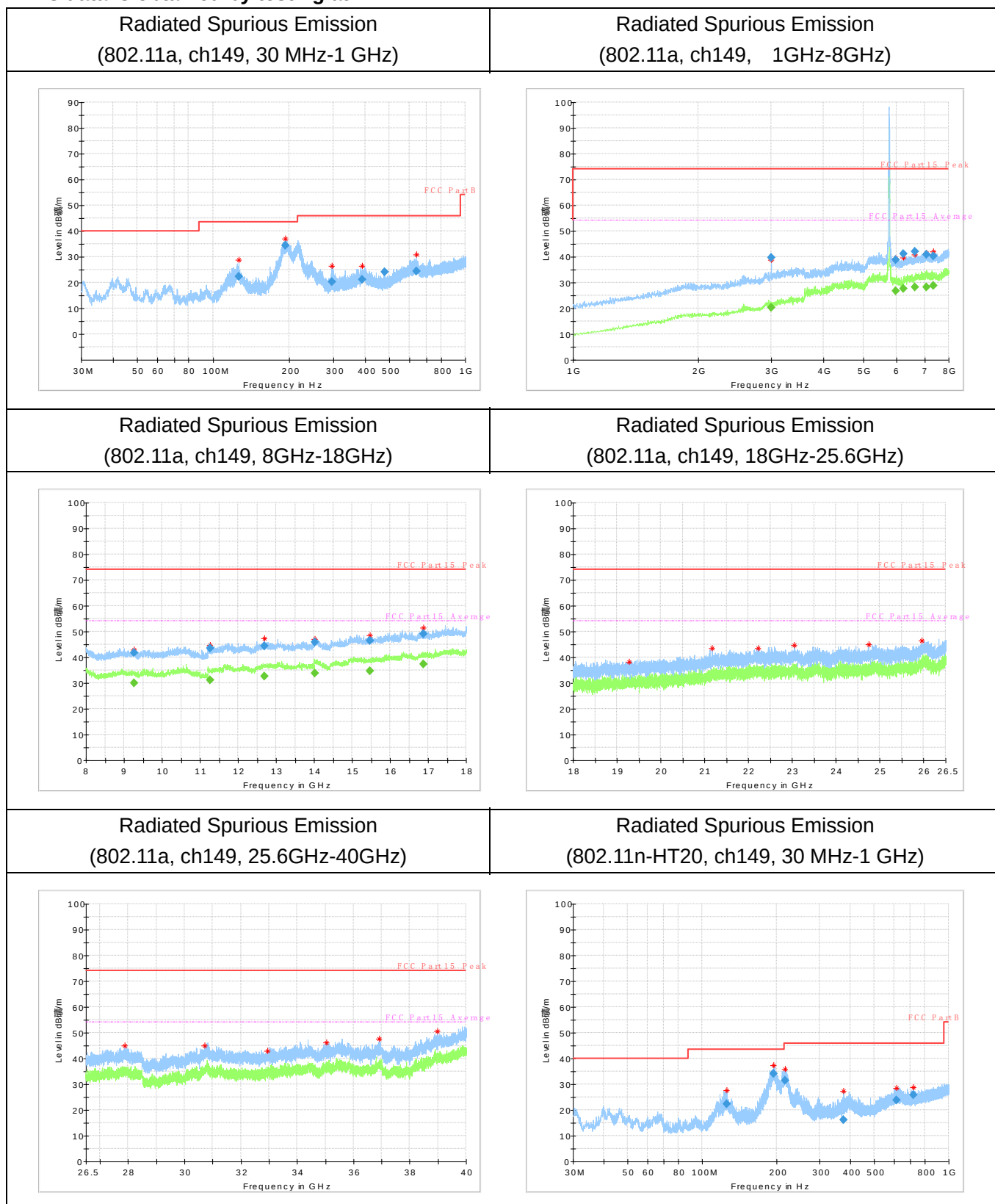
Mode	Data rate	Channel
802.11a	6Mbps	165(5825MHz)
802.11n-HT20	MCS0	157(5785MHz)
802.11n-HT40	MCS0	151(5755MHz)
802.11ac-VHT20	MCS0	165(5825MHz)
802.11ac-VHT40	MCS0	151(5755MHz)

Measurement Uncertainty:

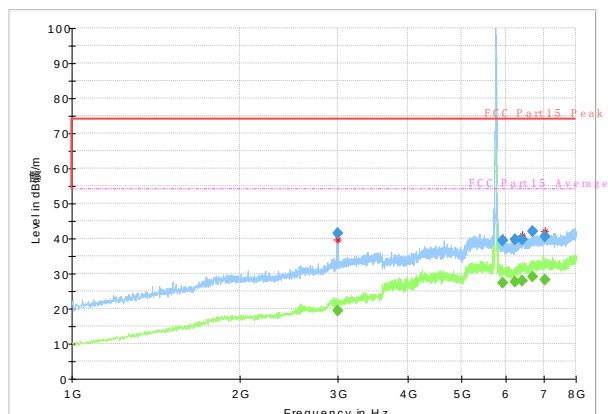
Frequency Range	Uncertainty(dB)
$f \leq 1\text{GHz}$	3.9
$f > 1\text{GHz}$	4.3

Measurement Results:

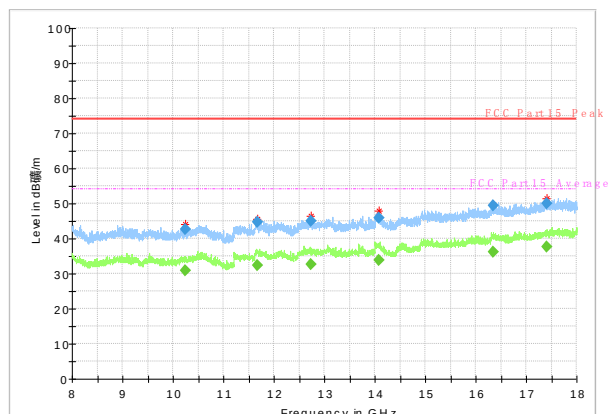
This data is obtained by testing at 12V



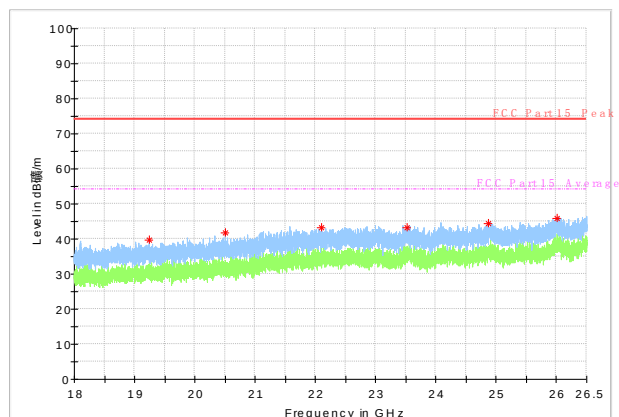
Radiated Spurious Emission
(802.11n-HT20, ch149, 1GHz-8GHz)



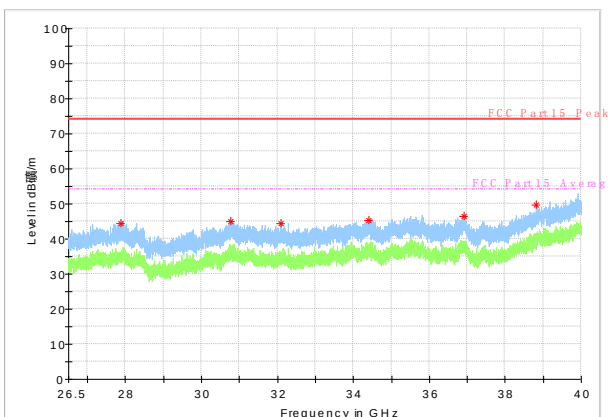
Radiated Spurious Emission
(802.11n-HT20, ch149, 8GHz-18GHz)



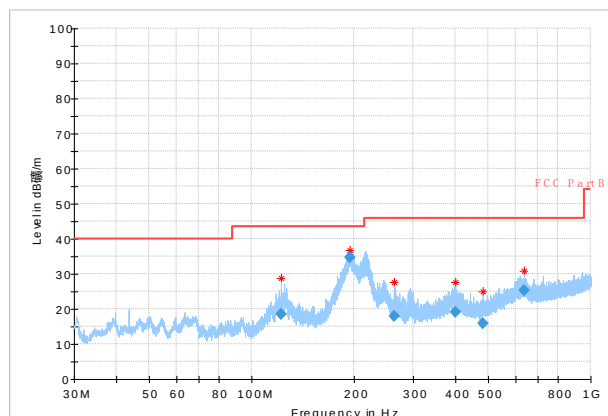
Radiated Spurious Emission
(802.11n-HT20, ch149, 18GHz-25.6GHz)



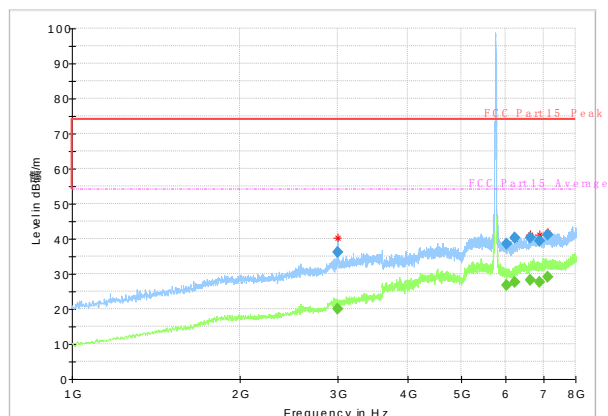
Radiated Spurious Emission
(802.11n-HT20, ch149, 25.6GHz-40GHz)



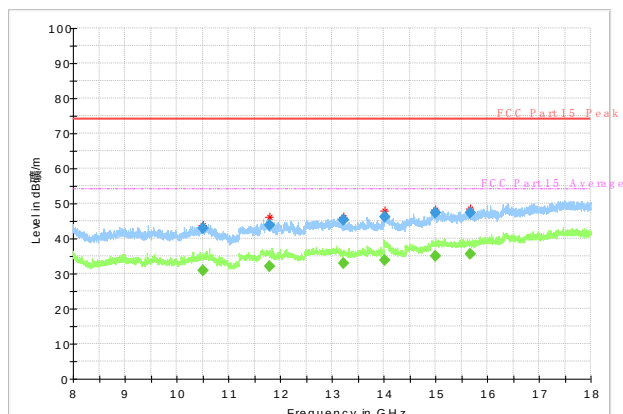
Radiated Spurious Emission
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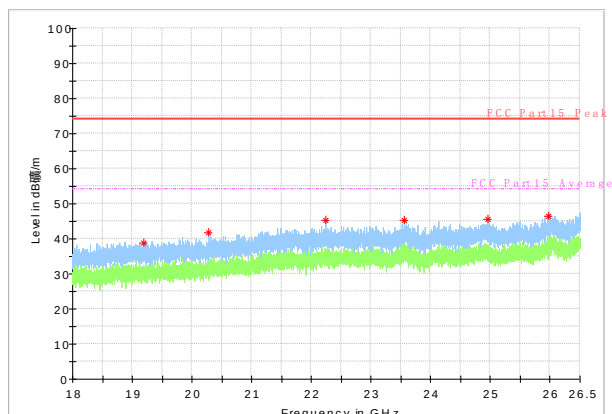
Radiated Spurious Emission
(802.11ac-VHT20, ch149, 1GHz-8GHz)



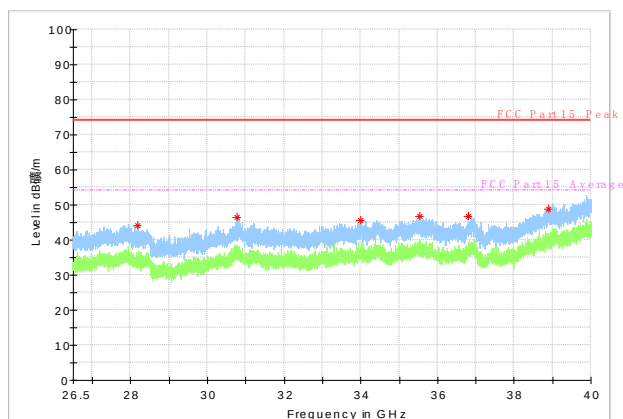
Radiated Spurious Emission
(802.11ac-VHT20, ch149, 8GHz-18GHz)



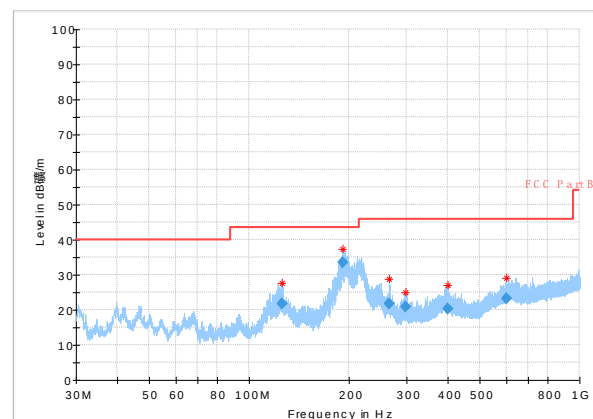
Radiated Spurious Emission
(802.11ac-VHT20, ch149, 18GHz-25.6GHz)



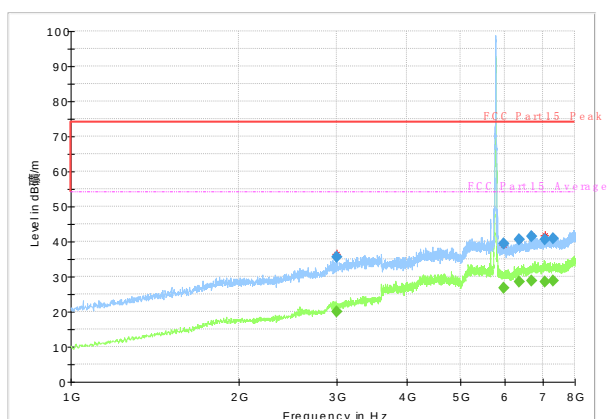
Radiated Spurious Emission
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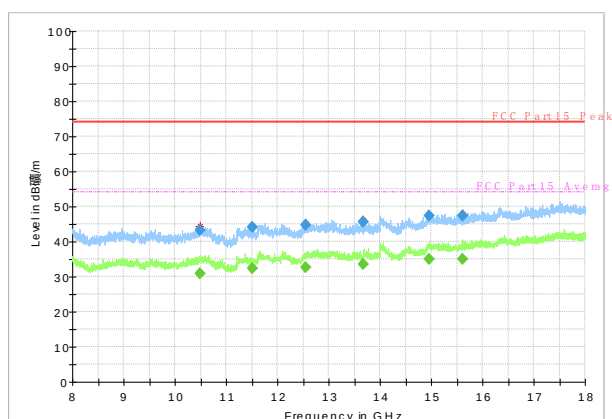
Radiated Spurious Emission
(802.11n-HT40, ch151, 30 MHz-1 GHz)



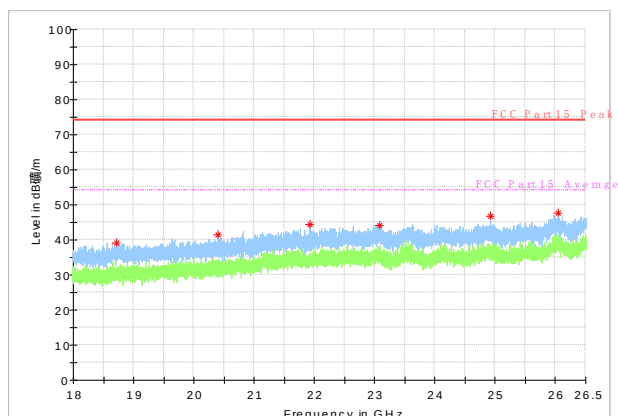
Radiated Spurious Emission
(802.11n-HT40, ch151, 1GHz-8GHz)



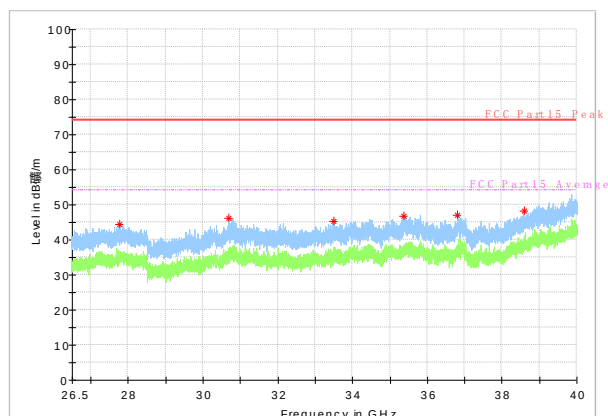
Radiated Spurious Emission
(802.11n-HT40, ch151, 8GHz-18GHz)



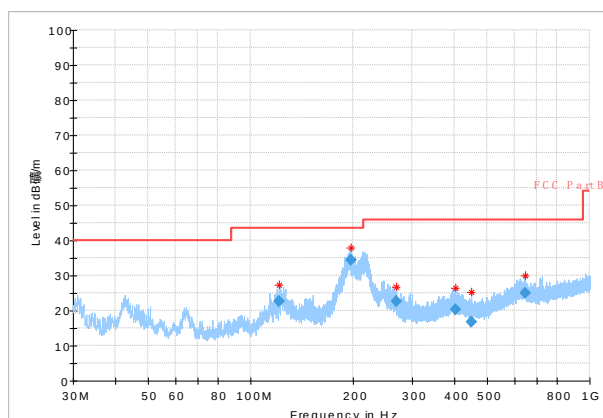
Radiated Spurious Emission
(802.11n-HT40, ch151, 18GHz-25.6GHz)



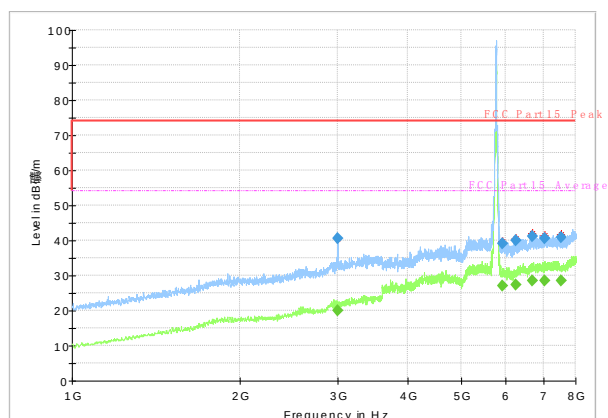
Radiated Spurious Emission
(802.11n-HT40, ch151, 25.6GHz-40GHz)



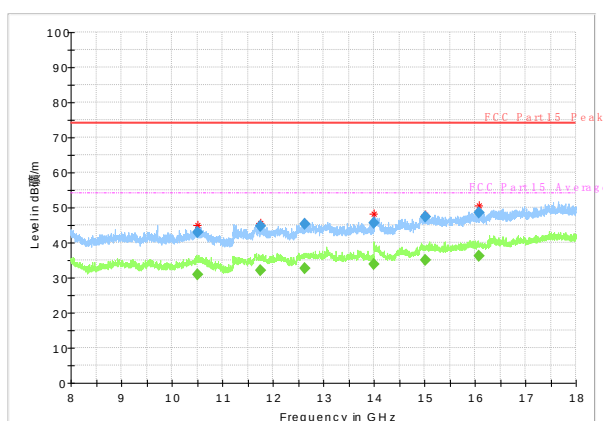
Radiated Spurious Emission
(802.11ac-VHT40, ch151, 30 MHz-1 GHz)



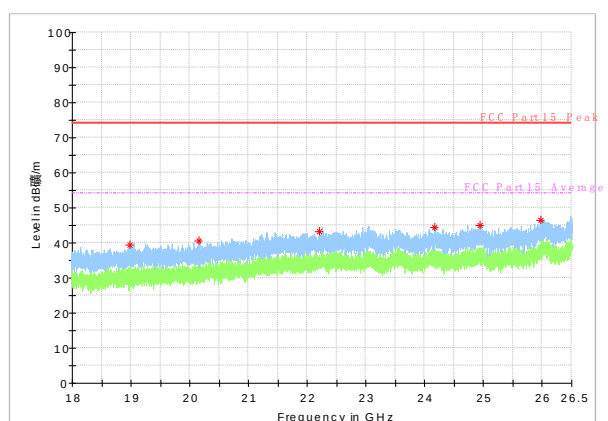
Radiated Spurious Emission
(802.11ac-VHT40, ch151, 1GHz-8GHz)

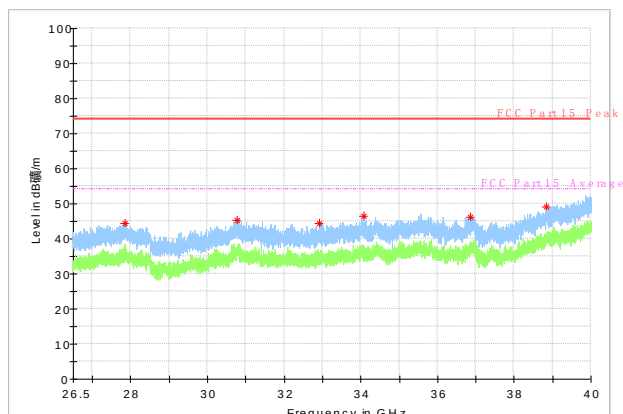


Radiated Spurious Emission
(802.11ac-VHT40, ch151, 8GHz-18GHz)

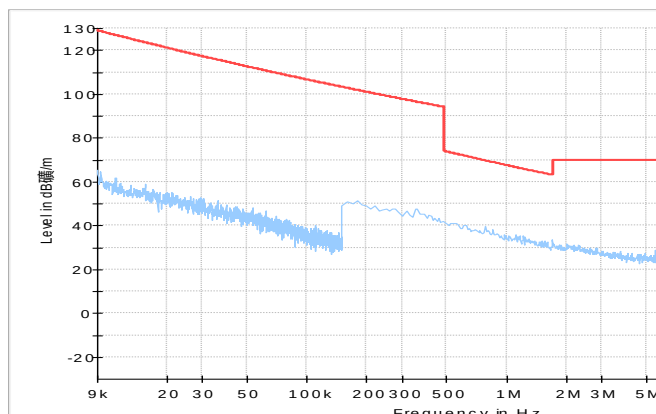


Radiated Spurious Emission
(802.11ac-VHT40, ch151, 18GHz-25.6GHz)



Radiated Spurious Emission
(802.11ac-VHT40, ch151, 25.6GHz-40GHz)


Radiated Spurious Emission (9kHz-30MHz)


Note:

A "reference path loss" is established and the AR_{pl} 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.

802.11a

Channel 149 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
126.2	22.34	-17.2	39.54	H
193.1	34.4	-15.6	50	H
296.3	20.38	-11.6	31.98	H
388.8	21.18	-8.9	30.08	H
480.0	24.03	-7.8	31.83	V
637.8	24.43	-3.4	27.83	H

Channel 149 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2999.4	39.59	-4.4	43.99	H
5965.2	38.88	0.9	37.98	H
6226.8	41.07	1.7	39.37	H
6637.8	42.09	2.7	39.39	H
7063.0	40.79	3	37.79	H
7338.6	40.35	3.4	36.95	H

Channel 149 (8GHz ~ 18GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
9269.0	41.76	4.9	36.86	H
11265.0	43.66	7.4	36.26	H
12699.0	44.5	10.1	34.4	H
14013.0	46.01	12	34.01	H
15469.6	46.39	14.2	32.19	H
16872.8	49.2	16.9	32.3	H

Channel 149 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
19279.2	38.12	-5.8	43.92	H
21172.2	43.52	-4	47.52	V
22222.0	43.64	-3	46.64	V
23052.4	44.81	-3	47.81	V
24748.2	44.87	-2.2	47.07	V
25957.7	46.57	-2	48.57	H

Channel 149 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
27866.2	45.13	-0.4	45.53	H
30710.6	45.13	0	45.13	H
32950.3	43.08	1	42.08	V
35042.8	46.24	-0.2	46.44	V
36919.3	47.57	1.8	45.77	V
38980.8	50.46	4	46.46	V

802.11n-HT20

Channel 149 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
126.1	22.27	-17.2	39.47	H
194.7	34.21	-15.6	49.81	H
217.7	31.36	-14	45.36	H
374.9	16.23	-9.1	25.33	V
613.1	23.7	-2.7	26.4	H
720.6	25.78	-3.1	28.88	H

Channel 149 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2993.2	41.6	-4.4	46	H
5908.8	39.33	0.9	38.43	H
6232.6	39.73	1.7	38.03	H
6414.2	39.71	2	37.71	H
6688.0	42.01	2.8	39.21	H
7041.4	40.58	3	37.58	H

Channel 149 (8GHz ~ 18GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
10246.8	42.63	6.2	36.43	H
11677.4	44.61	8.6	36.01	H
12725.6	44.91	10.2	34.71	H
14073.6	45.81	12.1	33.71	H
16349.0	49.46	16.2	33.26	H
17405.2	50.14	17.7	32.44	H

Channel 149 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
19245.2	39.61	-5.7	45.31	V
20502.4	41.8	-4.3	46.1	H
22093.6	43.33	-3.1	46.43	V
23519.0	43.3	-2.8	46.1	V
24863.8	44.35	-2.3	46.65	V
26003.6	45.84	-2	47.84	H

Channel 149 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
27873.0	44.46	-0.4	44.86	H
30779.5	44.94	0.2	44.74	V
32095.8	44.54	0.4	44.14	H
34415.0	45.32	1.3	44.02	H
36912.6	46.42	1.8	44.62	V
38820.1	49.8	3.5	46.3	H

802.11n-HT40

Channel 151 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
125.8	21.76	-17.1	38.86	H
192.4	33.63	-15.6	49.23	H
266.2	21.64	-12.2	33.84	H
298.2	20.81	-11.5	32.31	H
399.8	20.39	-8.4	28.79	V
599.0	23.29	-3.1	26.39	H

Channel 151 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
2997.8	35.53	-4.4	39.93	H
5966.4	39.33	0.9	38.43	H
6357.4	40.52	1.9	38.62	H
6690.2	41.52	2.8	38.72	H
7075.2	40.63	3	37.63	H
7301.8	40.81	3.4	37.41	H

Channel 151 (8GHz ~ 18GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
10499.4	43.22	6.9	36.32	H
11520.2	44.09	8.4	35.69	H
12556.4	44.81	9.7	35.11	H
13678.6	45.63	10.6	35.03	H
14958.2	47.45	13.6	33.85	H
15602.8	47.28	14.3	32.98	H

Channel 151 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
18720.0	39.19	-5.6	44.79	H
20403.0	41.48	-4.5	45.98	H
21925.3	44.33	-3.4	47.73	V
23079.6	44.25	-3.1	47.35	H
24920.7	46.88	-2.4	49.28	V
26052.9	47.62	-2	49.62	V

Channel 151 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
27760.9	44.36	-0.5	44.86	H
30679.6	46.12	0	46.12	H
33510.6	45.31	1.3	44.01	H
35366.8	46.78	1.6	45.18	H
36816.7	47.13	2.3	44.83	V
38608.2	48.32	2.9	45.42	H

802.11ac-VHT20

Channel 149 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
122.3	18.61	-16.8	35.41	H
194.3	34.83	-15.6	50.43	H
263.4	17.88	-12.4	30.28	H
398.7	19.12	-8.5	27.62	H
479.9	15.92	-7.8	23.72	H
635.9	25.32	-3.3	28.62	H

Channel 149 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2998.6	36.09	-4.4	40.49	H
6008.6	38.4	0.9	37.5	H
6220.2	40.36	1.7	38.66	H
6637.4	40.15	2.7	37.45	H
6903.4	39.42	3	36.42	H
7146.8	41.1	3.1	38	H

Channel 149 (8GHz ~ 18GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
10504.4	43.02	6.9	36.12	H
11789.8	43.97	8.8	35.17	H
13230.0	45.25	10.4	34.85	H
14030.2	46.28	12	34.28	H
14991.8	47.22	13.7	33.52	H
15682.4	47.4	14.6	32.8	H

Channel 149 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
19190.8	38.76	-5.6	44.36	H
20286.5	41.71	-4.8	46.51	V
22246.6	45.26	-3	48.26	H
23550.5	45.24	-2.8	48.04	H
24963.2	45.62	-2.4	48.02	V
25977.2	46.57	-2	48.57	H

Channel 149 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
28191.6	44.21	-0.4	44.61	V
30760.6	46.5	0.1	46.4	H
33989.8	45.48	1.5	43.98	V
35523.4	46.78	1.5	45.28	H
36793.8	46.78	2.3	44.48	H
38889.0	48.85	3.7	45.15	H

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Channel 151 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
121.7	22.72	-16.8	39.52	H
197.8	34.29	-15.5	49.79	H
269.8	22.79	-12	34.79	H
402.1	20.44	-8.4	28.84	H
449.4	16.87	-8.3	25.17	V
643.9	25.08	-3.5	28.58	H

Channel 151 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2998.8	40.57	-4.4	44.97	H
5903.8	39.16	0.9	38.26	H
6250.8	40.09	1.8	38.29	H
6701.2	41.14	2.8	38.34	H
7051.6	40.48	3	37.48	H
7544.2	40.92	3	37.92	H

Channel 151 (8GHz ~ 18GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
10506.6	42.89	6.9	35.99	H
11752.2	44.65	8.7	35.95	H
12637.0	45.31	9.9	35.41	H
14001.0	45.69	12	33.69	H
15027.0	47.47	13.6	33.87	H
16089.0	48.59	15.3	33.29	H

Channel 151 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
18989.4	39.36	-5.4	44.76	H
20149.6	40.61	-4.8	45.41	H
22209.2	43.24	-3	46.24	V
24167.6	44.27	-2.8	47.07	H
24938.6	45.11	-2.4	47.51	H
25980.6	46.33	-2	48.33	V

Channel 151 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
27836.5	44.52	-0.4	44.92	V
30760.6	45.37	0.1	45.27	H
32930.0	44.3	1	43.3	V
34064.0	46.53	1.5	45.03	H
36872.0	46.05	2	44.05	V
38844.4	49.01	3.6	45.41	V

ANNEX A.2. Band Edges Compliance

Band Edges - Radiated

Measurement Limit:

- (1) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (5) In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

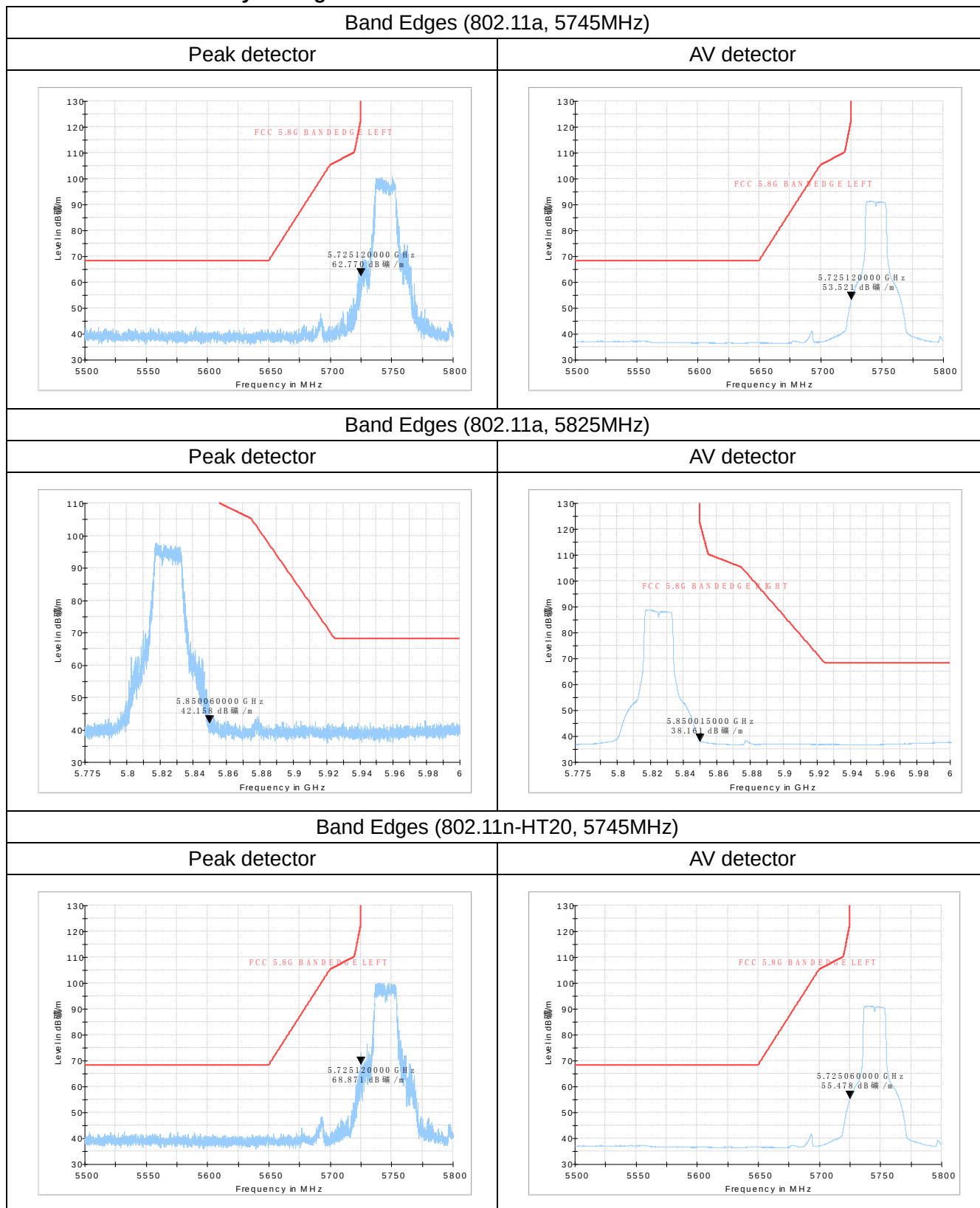
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Set the spectrum analyzer in the following:

- (a) Sweep mode :SweepAnalyzer6db.
- (b) PEAK: RBW=1MHz / VBW=3MHz / Sweep=2.5ms, Sweep point;5001
- (c) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=2.5ms, Sweep point;5001

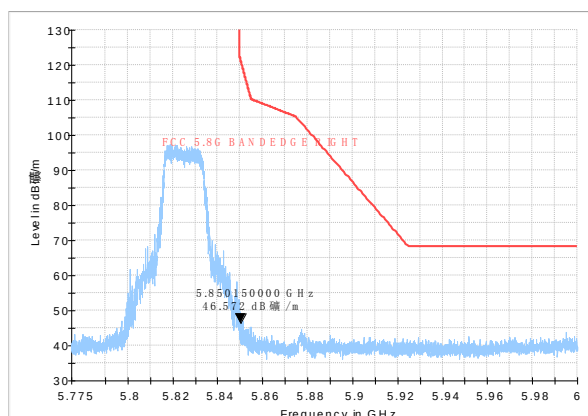
Measurement Result:

This data is obtained by testing at 12V

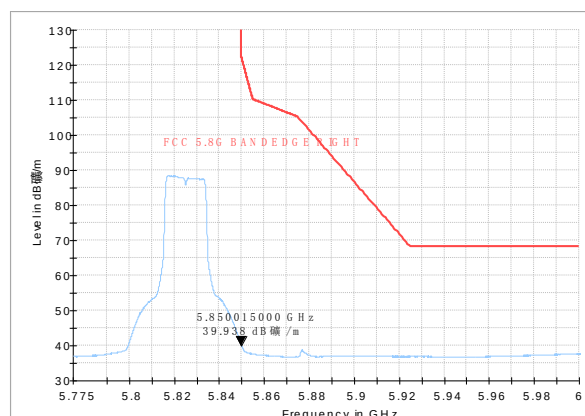


Band Edges (802.11n-HT20, 5825MHz)

Peak detector

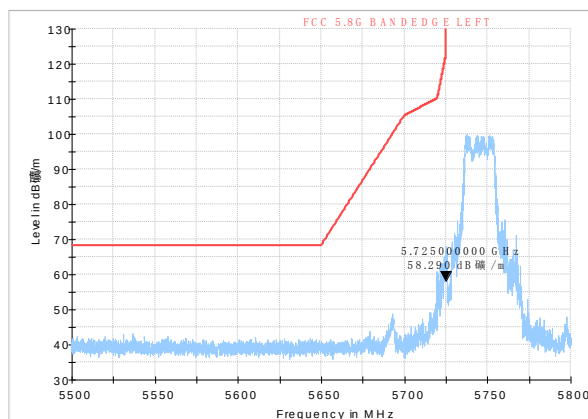


AV detector

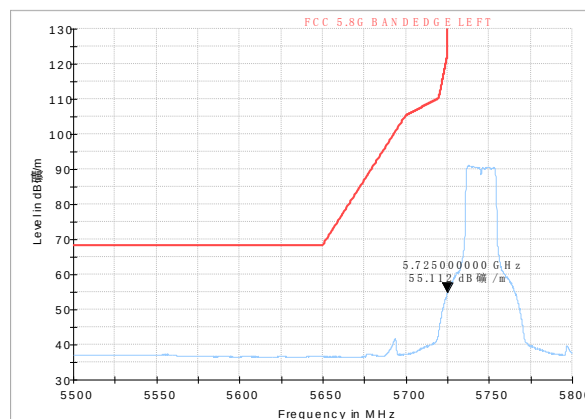


Band Edges (802.11ac-VHT20, 5745MHz)

Peak detector

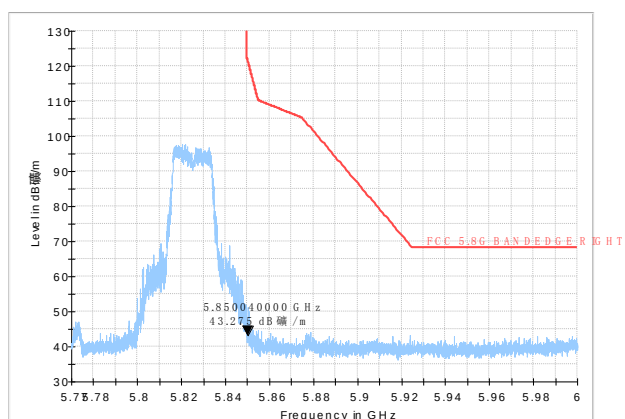


AV detector

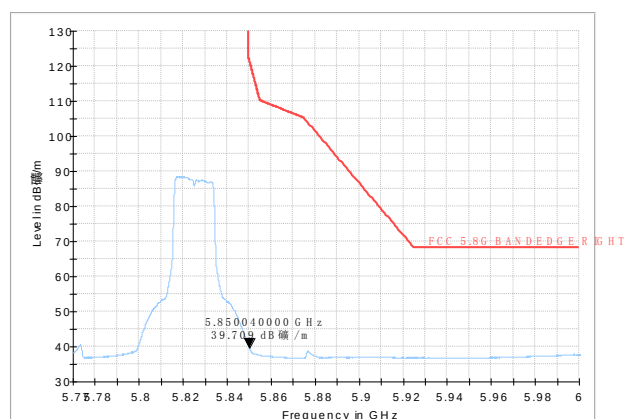


Band Edges (802.11ac-VHT20, 5825MHz)

Peak detector

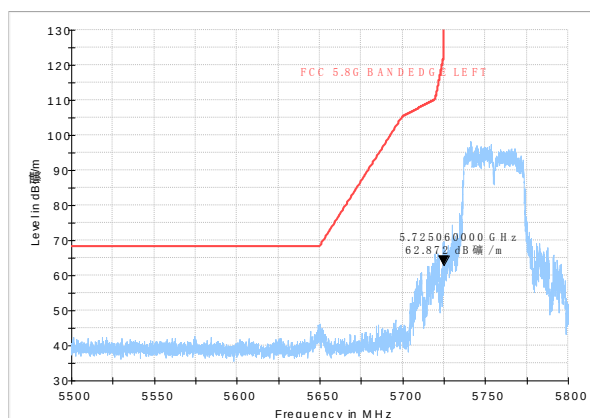


AV detector

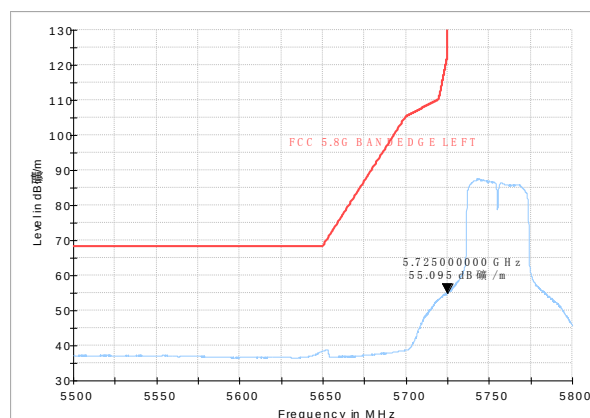


Band Edges (802.11n-HT40, 5755MHz)

Peak detector

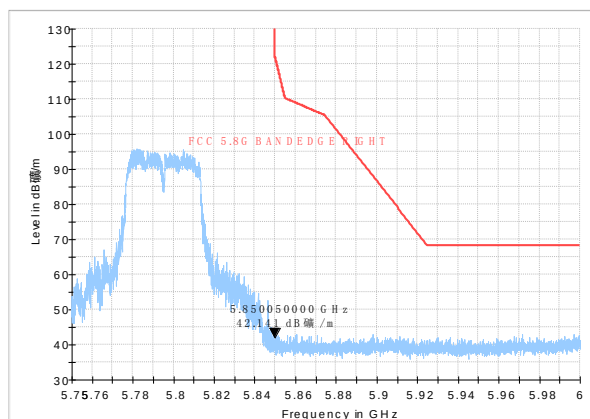


AV detector

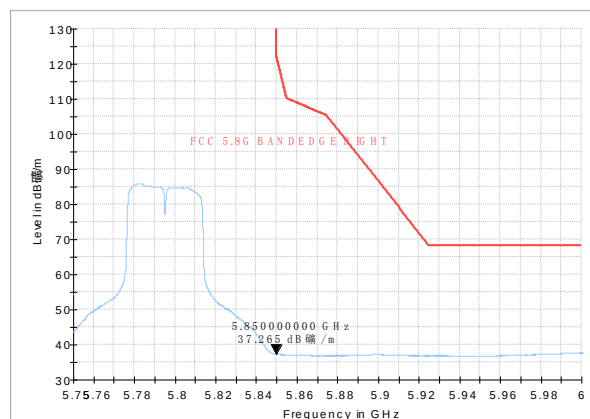


Band Edges (802.11n-HT40, 5795MHz)

Peak detector

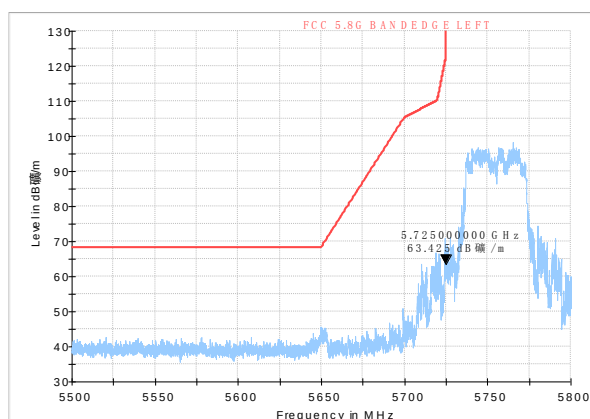


AV detector

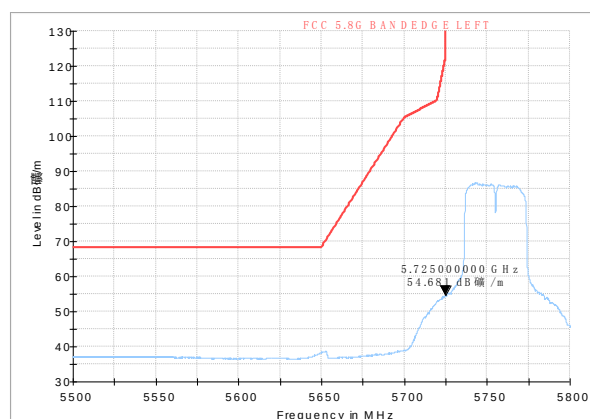


Band Edges (802.11ac-VHT40, 5755MHz)

Peak detector

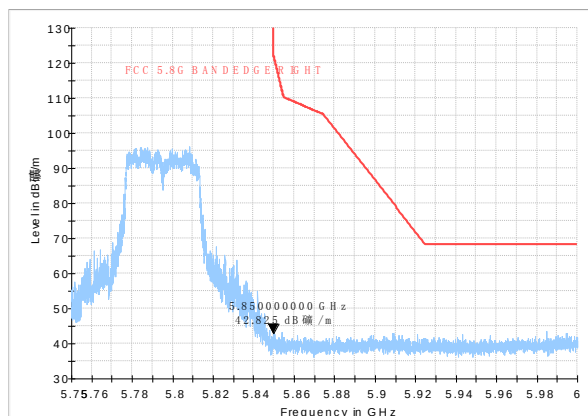


AV detector

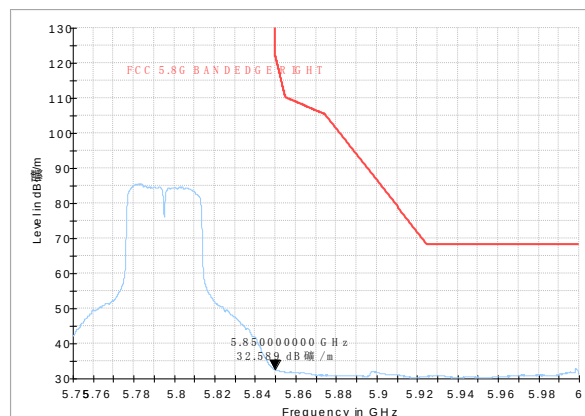


Band Edges (802.11ac-VHT40, 5795MHz)

Peak detector



AV detector



ANNEX B. Accreditation Certificate



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