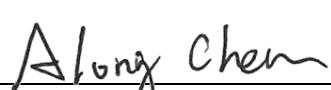


FCC Co-Location Test Report

FCC ID : 2AAS9-MI10
Equipment : Wi-Fi 6 AX6600 Tri-Radio Indoor Mesh Router
Model No. : MI10
Brand Name : PRISM
Applicant : Browan Communications Incorporation.
Address : No.15-1, Zhonghua Rd., Hsinchu Industrial Park, Hukou Hsinchu Hsien Taiwan 303
Standard : 47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
Received Date : Dec. 30, 2021
Tested Date : Feb. 11 ~ Feb. 14, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager

Table of Contents

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Release Record

Report No.	Version	Description	Issued Date
FR1D3002CO	Rev. 01	Initial issue	Feb. 23, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d)			
15.407(b)	Radiated Emissions	[dBuV/m at 3m]: 51.94MHz 38.88 (Margin -1.12dB) - QP	Pass
15.209			

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

FCC ID	2AAS9-MI10
Operating Frequency	802.11b/g/n/ax: 2412 MHz ~ 2462 MHz 802.11a/n/ac/ax: 5180 MHz ~ 5240 MHz, 5745 ~ 5825 MHz
Modulation Type	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac/ax: OFDM/OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
				2400~2483.5MHz	5150~5250 MHz	5725~5850 MHz
1	ANT0	PIFA	UFL	---	---	5.3
2	ANT1	PIFA	UFL	---	---	5.92
3	ANT2	PIFA	UFL	---	---	4.72
4	ANT3	PIFA	UFL	---	---	5.25
5	ANT5	PIFA	UFL	4.48	3.95	---
6	ANT6	PIFA	UFL	2.94	6.6	---

1.1.3 Radio Details

Radio	Function
1	2.4 GHz, 2T2R
2	5.15 GHz ~ 5.25 GHz, 2T2R
3	5.725 GHz ~ 5.85 GHz, 4T4R

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter
-------------------	--------------------

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: MOSO Model: MSS-V3000WR120-042A0-US Power Rating: I/P: 100-240Vac, 50/60Hz, 1.2A max. O/P: 12Vdc, 3.0A Line: 1.2m non-shielded w/o core.
2	AC adapter	Brand: Focom Model: F36L7-120300SPAU Power Rating: I/P: 100-240Vac, 50/60Hz, 0.9A O/P: 12Vdc, 3.0A, 36.0W Line: 1.2m non-shielded w/o core.
3	RJ45 (cat. 6)	Brand: EKSONG Line: 1.9m non-shielded w/o core.
4	MOUNTING-BRACKET	---

1.2 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Feb. 11 ~ Feb. 14, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Feb. 11, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022

Note: Calibration Interval of instruments listed above is one year.

1.3 Test Standards

47 CFR FCC Part 15.247

47 CFR FCC Part 15.407

ANSI C63.10-2013

1.4 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.5 Deviation from Test Standard and Measurement Procedure

None

1.6 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Radiated emission \leq 1GHz	± 3.41 dB
Radiated emission $>$ 1GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Test Mode
Radiated Emissions	2.4G 11G CH6 (Radio 1) + 5G 11ax 40 CH46 (Radio 2) + 5G 11a ch 157 (Radio 3)
Conducted Emissions	

NOTE:

1. The selected channel is the maximum power channel of each Wi-Fi module.
2. Two adapters (MOSO and Fecom) had been covered during the pretest, and found that Fecom was the worst case and was selected for final test.

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

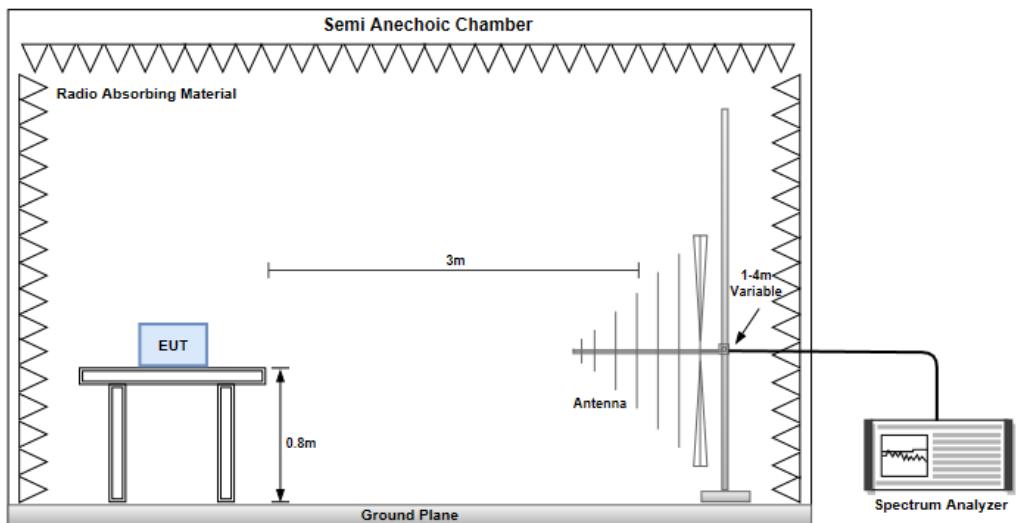
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

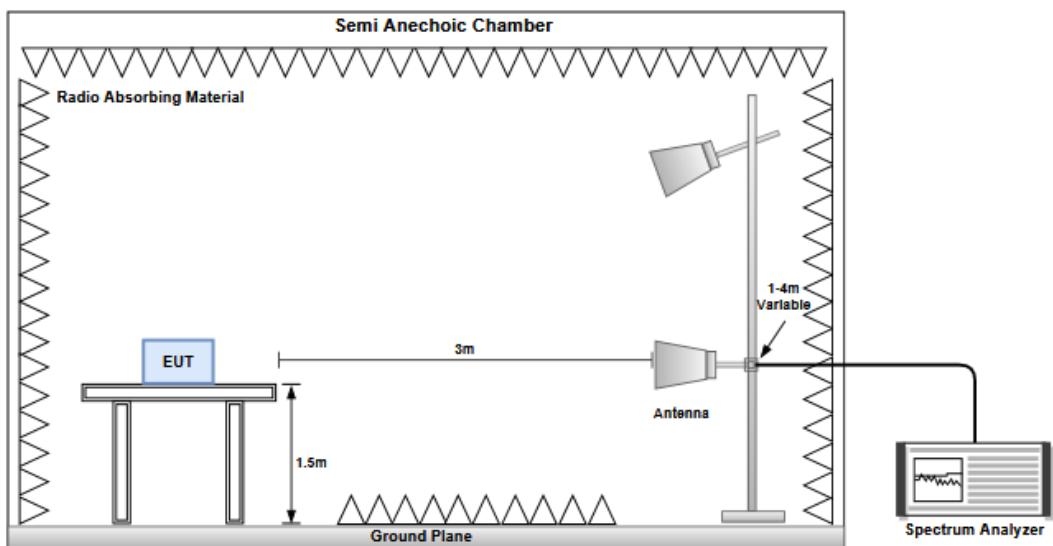
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.1.3 Test Setup

Radiated Emissions below 1 GHz



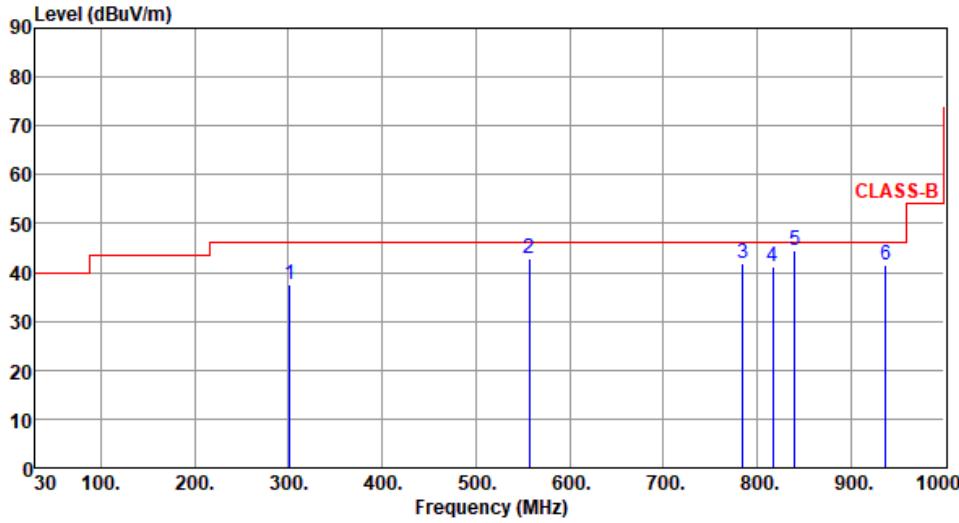
Radiated Emissions above 1 GHz

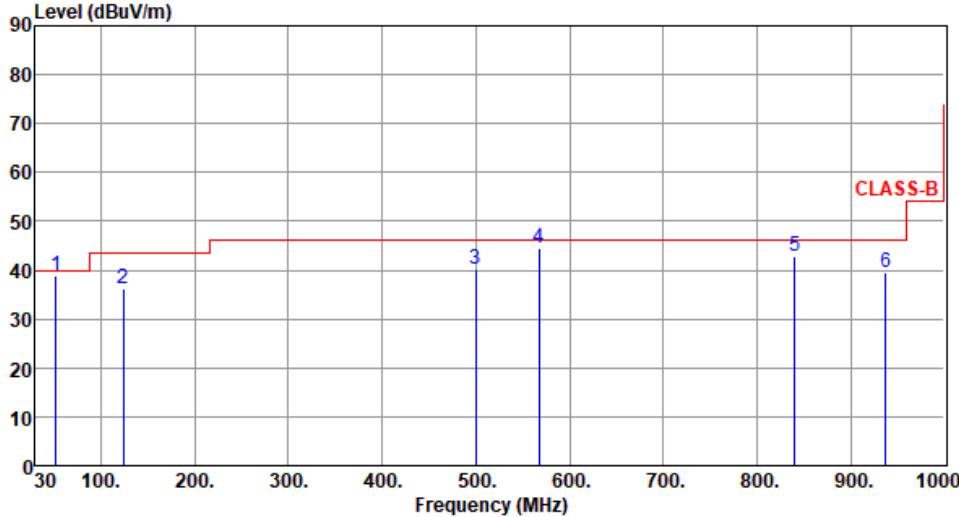


Transmitter Conducted Unwanted Emissions (30MHz~40GHz)



3.1.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Test Mode	2.4G 11G CH6 (Radio 1) + 5G 11ax 40 CH46 (Radio 2) + 5G 11a ch 157 (Radio 3)																																																																													
Polarization	Horizontal																																																																													
Test By	:Roger Lu				Temperature(°C):22	Humidity(%):68																																																																								
																																																																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Freq. MHz</th> <th style="text-align: center;">Emission level dBuV/m</th> <th style="text-align: center;">Limit dBuV/m</th> <th style="text-align: center;">Margin dB</th> <th style="text-align: center;">SA reading dBuV</th> <th style="text-align: center;">Factor dB/m</th> <th style="text-align: center;">Remark</th> <th style="text-align: center;">ANT High cm</th> <th style="text-align: center;">Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td style="text-align: center;">301.60</td> <td style="text-align: center;">37.38</td> <td style="text-align: center;">46.00</td> <td style="text-align: center;">-8.62</td> <td style="text-align: center;">45.47</td> <td style="text-align: center;">-8.09</td> <td style="text-align: center;">Peak</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> <tr> <td>2</td> <td style="text-align: center;">556.71</td> <td style="text-align: center;">42.69</td> <td style="text-align: center;">46.00</td> <td style="text-align: center;">-3.31</td> <td style="text-align: center;">44.96</td> <td style="text-align: center;">-2.27</td> <td style="text-align: center;">Peak</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> <tr> <td>3</td> <td style="text-align: center;">784.86</td> <td style="text-align: center;">41.79</td> <td style="text-align: center;">46.00</td> <td style="text-align: center;">-4.21</td> <td style="text-align: center;">39.95</td> <td style="text-align: center;">1.84</td> <td style="text-align: center;">QP</td> <td style="text-align: center;">100</td> <td style="text-align: center;">212</td> </tr> <tr> <td>4</td> <td style="text-align: center;">817.15</td> <td style="text-align: center;">41.16</td> <td style="text-align: center;">46.00</td> <td style="text-align: center;">-4.84</td> <td style="text-align: center;">38.79</td> <td style="text-align: center;">2.37</td> <td style="text-align: center;">QP</td> <td style="text-align: center;">105</td> <td style="text-align: center;">210</td> </tr> <tr> <td>5</td> <td style="text-align: center;">840.03</td> <td style="text-align: center;">44.34</td> <td style="text-align: center;">46.00</td> <td style="text-align: center;">-1.66</td> <td style="text-align: center;">41.85</td> <td style="text-align: center;">2.49</td> <td style="text-align: center;">QP</td> <td style="text-align: center;">100</td> <td style="text-align: center;">215</td> </tr> <tr> <td>6</td> <td style="text-align: center;">936.95</td> <td style="text-align: center;">41.60</td> <td style="text-align: center;">46.00</td> <td style="text-align: center;">-4.40</td> <td style="text-align: center;">37.36</td> <td style="text-align: center;">4.24</td> <td style="text-align: center;">Peak</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> </tbody> </table>										Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	301.60	37.38	46.00	-8.62	45.47	-8.09	Peak	---	---	2	556.71	42.69	46.00	-3.31	44.96	-2.27	Peak	---	---	3	784.86	41.79	46.00	-4.21	39.95	1.84	QP	100	212	4	817.15	41.16	46.00	-4.84	38.79	2.37	QP	105	210	5	840.03	44.34	46.00	-1.66	41.85	2.49	QP	100	215	6	936.95	41.60	46.00	-4.40	37.36	4.24	Peak	---	---
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																														

Test Mode	2.4G 11G CH6 (Radio 1) + 5G 11ax 40 CH46 (Radio 2) + 5G 11a ch 157 (Radio 3)																																																																																								
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Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	Table	MHz	level	dBuV/m	dB	reading	dBuV	Factor	High	cm	deg	1	51.94	38.88	40.00	-1.12	47.67	-8.79	QP	100	350	2	124.09	36.17	43.50	-7.33	46.46	-10.29	Peak	---	---	3	499.44	40.30	46.00	-5.70	43.60	-3.30	QP	116	346	4	567.26	44.35	46.00	-1.65	46.30	-1.95	QP	100	175	5	839.95	42.94	46.00	-3.06	40.45	2.49	Peak	---	---	6	936.95	39.57	46.00	-6.43	35.33	4.24	Peak	---	---
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6	936.95	39.57	46.00	-6.43	35.33	4.24	Peak	---	---																																																																																

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

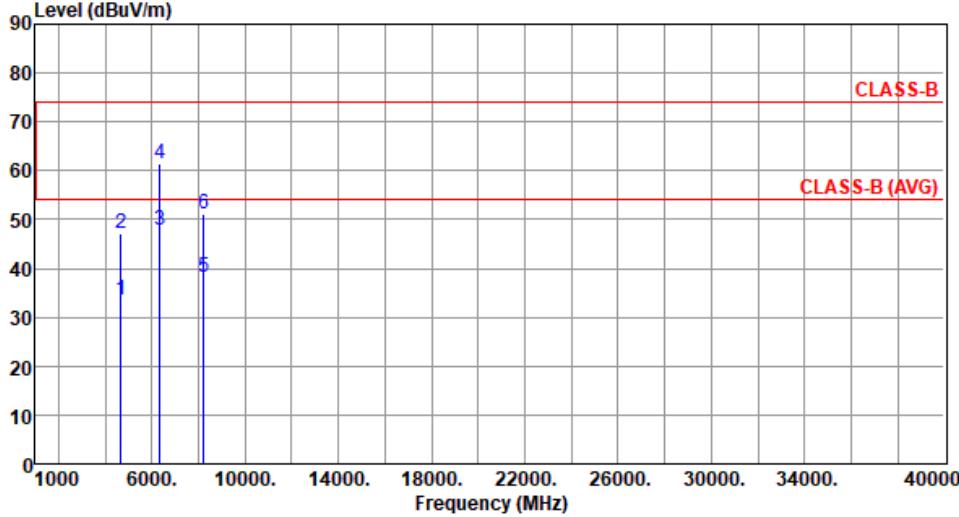
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.1.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Test Mode	2.4G 11G CH6 (Radio 1) + 5G 11ax 40 CH46 (Radio 2) + 5G 11a ch 157 (Radio 3)																																																																															
Polarization	Horizontal																																																																															
Test By	: Roger Lu			Temperature (°C): 23			Humidity (%): 65																																																																									
<p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>CLASS-B</p> <p>CLASS-B (AVG)</p>																																																																																
<table border="1"> <thead> <tr> <th></th> <th>Freq. MHz</th> <th>Emission level dBuV/m</th> <th>Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB/m</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4675.00</td> <td>32.07</td> <td>54.00</td> <td>-21.93</td> <td>28.25</td> <td>3.82</td> <td>Average</td> <td>100</td> <td>342</td> </tr> <tr> <td>2</td> <td>4675.00</td> <td>47.37</td> <td>74.00</td> <td>-26.63</td> <td>43.55</td> <td>3.82</td> <td>Peak</td> <td>100</td> <td>342</td> </tr> <tr> <td>3</td> <td>6340.00</td> <td>46.08</td> <td>54.00</td> <td>-7.92</td> <td>39.55</td> <td>6.53</td> <td>Average</td> <td>100</td> <td>55</td> </tr> <tr> <td>4</td> <td>6340.00</td> <td>59.80</td> <td>74.00</td> <td>-14.20</td> <td>53.27</td> <td>6.53</td> <td>Peak</td> <td>100</td> <td>55</td> </tr> <tr> <td>5</td> <td>8222.00</td> <td>38.27</td> <td>54.00</td> <td>-15.73</td> <td>28.46</td> <td>9.81</td> <td>Average</td> <td>100</td> <td>100</td> </tr> <tr> <td>6</td> <td>8222.00</td> <td>50.92</td> <td>74.00</td> <td>-23.08</td> <td>41.11</td> <td>9.81</td> <td>Peak</td> <td>100</td> <td>100</td> </tr> </tbody> </table>												Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	4675.00	32.07	54.00	-21.93	28.25	3.82	Average	100	342	2	4675.00	47.37	74.00	-26.63	43.55	3.82	Peak	100	342	3	6340.00	46.08	54.00	-7.92	39.55	6.53	Average	100	55	4	6340.00	59.80	74.00	-14.20	53.27	6.53	Peak	100	55	5	8222.00	38.27	54.00	-15.73	28.46	9.81	Average	100	100	6	8222.00	50.92	74.00	-23.08	41.11	9.81	Peak	100	100
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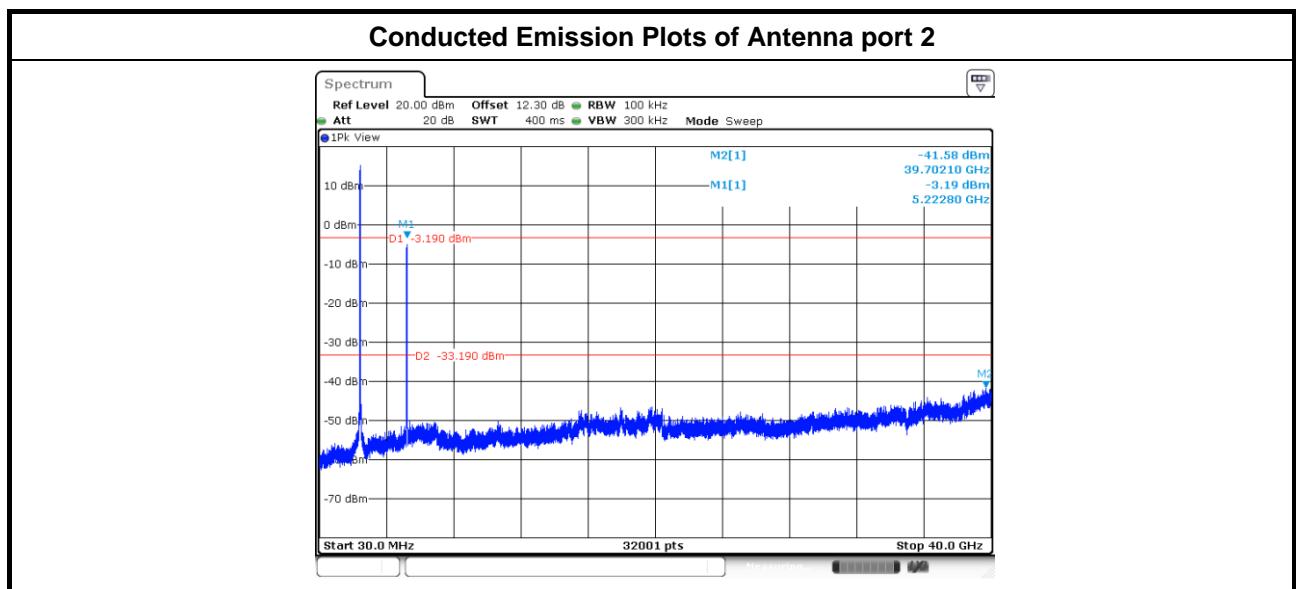
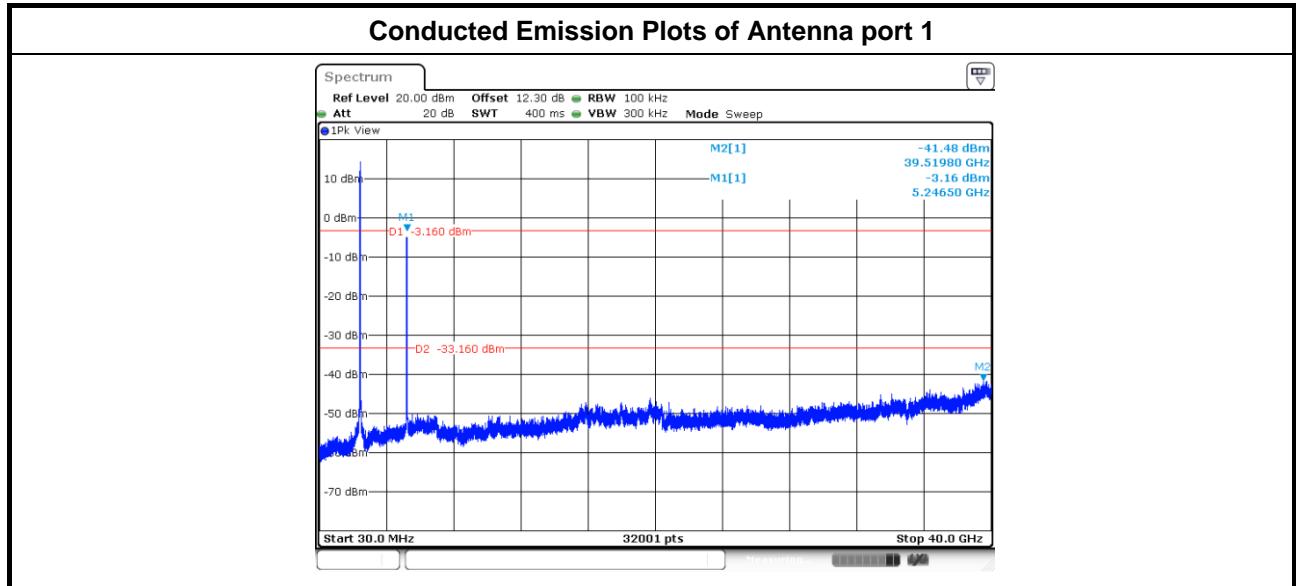
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.1.6 Conducted Emissions (30MHz~40GHz)

Ambient Condition	22°C / 63%	Tested By	Brad Wu
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4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640
No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666
No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640
No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

—END—