

FCC Co-Location Test Report

FCC ID : ACQ-VIP5662W
Equipment : WiFi STB
Model No. : VIP5662W
Brand Name : ARRIS
Applicant : ARRIS Group, Inc.
Address : 101 Tournament Drive, Horsham,
Pennsylvania, United States, 19044
Standard : 47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
Received Date : Oct. 02, 2015
Tested Date : Oct. 26 ~ Oct. 27, 2015

We, International Certification Corp., 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 may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:



Gary Chang / Manager



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Release Record

| Report No. | Version | Description | Issued Date |
|------------|---------|---------------|---------------|
| FR5O0204CO | Rev. 01 | Initial issue | Dec. 08, 2015 |

Summary of Test Results

| FCC Rules | Test Items | Measured | Result |
|-----------|--------------------|--|--------|
| 15.247(d) | | | |
| 15.407(b) | Radiated Emissions | [dBuV/m at 3m]: 281.23MHz 43.98 (Margin -2.02dB) – PK | Pass |
| 15.209 | | | |

1 General Description

1.1 Information

1.1.1 Specification of the Wireless Certified Modules

| WLAN | |
|---------------------|--|
| Operating Frequency | 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz, 5745~5825 MHz |
| Modulaton Type | 802.11a/n/ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) |
| BT EDR / LE | |
| Operating Frequency | 2402 MHz ~ 2480 MHz |
| Modulaton Type | Bluetooth 4.0 LE: GFSK Bluetooth BR(1Mbps): GFSK Bluetooth EDR (2Mbps): π/4-DQPSK Bluetooth EDR (3Mbps): 8-DPSK |

1.1.2 Antenna Details

WLAN antenna

The device will be equipped with 2 brands of antennas (TSKY Ant. & Mag.Layers Ant.).

| Ant. No. | Brand | Model | Type | Connector | Operating Frequencies (MHz) / Antenna Gain (dBi) | | | |
|-------------|------------|---------------------------------------|------|-----------|--|-----------|-----------|-----------|
| | | | | | 5150~5250 | 5250~5350 | 5470~5725 | 5725~5850 |
| 1 | TSKY | A8-A006-00261 (180-100-0691R) | PCB | MHF PLUG | 0.5 | 0.5 | 0.5 | 0.6 |
| 2 | TSKY | A8-A006-00262 (180-100-0692R) | PCB | MHF PLUG | 0.5 | 0.5 | 0.5 | 0.6 |
| 3 | TSKY | A8-A006-00262 (180-100-0692R) | PCB | MHF PLUG | 0.5 | 0.5 | 0.5 | 0.6 |
| 4 | TSKY | A8-A006-00295 (180-100-0730R) | PCB | MHF PLUG | 0.5 | 0.5 | 0.5 | 0.6 |
| 1 | Mag.Layers | PCA-2108-5G0C1-A22 (180-101-0691R) | PCB | MHF PLUG | 0.5 | 0.5 | 0.5 | 0.6 |
| 2 | Mag.Layers | PCA-2108-5G0C1-A23 (180-101-0692R) | PCB | MHF PLUG | 0.5 | 0.5 | 0.5 | 0.6 |
| 3 | Mag.Layers | PCA-2108-5G0C1-A23 (180-101-0692R) | PCB | MHF PLUG | 0.5 | 0.5 | 0.5 | 0.6 |
| 4 | Mag.Layers | PCA-2108-5G0C1-A26 (180-100-0739R) | PCB | MHF PLUG | 0.5 | 0.5 | 0.5 | 0.6 |

BT antenna

The device will be equipped with 2 brands of antennas (TSKY Ant. & Mag.Layers Ant.).

| Ant. No. | Brand | Model | Type | Connector | Gain (dBi) | Remarks |
|----------|------------|--------------------------------------|------|-----------|------------|---------|
| 1 | TSKY | A8-A006-00260 (180-100-0694R) | PCB | MHF PLUG | 2 | --- |
| 1 | Mag.Layers | PCA-5510-2G4C1-A3 (180-101-0694R) | PCB | MHF PLUG | 2 | --- |

1.1.3 Power Supply Type of Equipment under Test (EUT)

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

1.1.4 Accessories

| Accessories | | |
|-------------|----------------|---|
| No. | Equipment | Description |
| 1 | AC adapter | Brand Name: APD Model Name: WA-30J12FU Power Rating: I/P: 100-120Vac, 50-60Hz, 0.9A O/P: 12.0Vdc, 2.5A Power line: DC 1.8m non-shielded cable w/o core |
| 2 | AC adapter | Brand Name: Delta Model Name: ADP-30DW B Power Rating: I/P: 100-120Vac, 50-60Hz, 1.0A O/P: 12.0Vdc, 2.5A Power line: DC 1.8m non-shielded cable w/o core |
| 3 | AC adapter | Brand Name: LiteOn Model Name: PB-1300-3AR1 Power Rating: I/P: 100-120Vac, 60Hz, 1.0A O/P: 12.0Vdc, 2.5A Power line: DC 1.8m non-shielded cable w/o core |
| 4 | AC adapter | Brand Name: NetBit Model Name: NBS30E120250VU Power Rating: I/P: 100-120Vac, 60Hz, 0.9A O/P: 12.0Vdc, 2.5A Power line: DC 1.8m non-shielded cable w/o core |
| 5 | HDMI Cable | Brand: WEBB & WELLS; Model: HF1257; 1.83m shielded cable w/o core. |
| 6 | Internal HDD | Brand: TOSHIBA; Model name: MQ01ABD100V; Capacity: 1TB |
| 7 | Remote control | Brand: Ruwido; Model: 2761-529 |

1.2 The Equipment List

| Test Item | Radiated Emission | | | | |
|-------------------------|----------------------------|-------------|------------------|------------------|-------------------|
| Test Site | 966 chamber1 / (03CH01-WS) | | | | |
| Instrument | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Until |
| Spectrum Analyzer | R&S | FSV40 | 101498 | Dec. 09, 2014 | Dec. 08, 2015 |
| Receiver | R&S | ESR3 | 101657 | Jan. 15, 2015 | Jan. 14, 2016 |
| Bilog Antenna | SCHWARZBECK | VULB9168 | VULB9168-522 | Aug. 20, 2015 | Aug. 19, 2016 |
| Horn Antenna 1G-18G | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D 1095 | Oct. 07, 2015 | Oct. 06, 2016 |
| Horn Antenna 18G-40G | SCHWARZBECK | BBHA 9170 | BBHA 9170508 | Jan. 05, 2015 | Jan. 04, 2016 |
| Loop Antenna | TESEQ | HLA6120 | 24155 | Mar. 12, 2015 | Mar. 11, 2016 |
| Preamplifier | Burgeon | BPA-530 | SN:100219 | Sep. 10, 2015 | Sep. 09, 2016 |
| Preamplifier | Agilent | 83017A | MY39501308 | Oct. 02, 2015 | Oct. 01, 2016 |
| Preamplifier | EMC | EMC184045B | 980192 | Sep. 01, 2015 | Aug. 31, 2016 |
| RF Cable | HUBER+SUHNER | SUCOFLEX104 | MY16014/4 | Dec. 15, 2014 | Dec. 14, 2015 |
| RF Cable | HUBER+SUHNER | SUCOFLEX104 | MY16019/4 | Dec. 15, 2014 | Dec. 14, 2015 |
| RF Cable | HUBER+SUHNER | SUCOFLEX104 | MY16139/4 | Dec. 15, 2014 | Dec. 14, 2015 |
| LF cable 3M | Woken | CFD400NL-LW | CFD400NL-001 | Dec. 15, 2014 | Dec. 14, 2015 |
| LF cable 10M | Woken | CFD400NL-LW | CFD400NL-002 | Dec. 15, 2014 | Dec. 14, 2015 |
| Measurement Software | AUDIX | e3 | 6.120210g | NA | NA |

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

1.3 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 558074 D01 DTS Meas Guidance v03r03

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01

FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. 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 ≤ 1GHz | ±3.72 dB |
| Radiated emission > 1GHz | ±5.65 dB |

2 Test Configuration

2.1 Testing Condition

| Test Item | Test Site | Ambient Condition | Tested By |
|--------------------|-----------|-------------------|---------------------------|
| Radiated Emissions | 03CH01-WS | 24°C / 66% | Aska Huang Morgan Chen |

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

| Test item | Modulation Mode | Test Frequency (MHz) | Data Rate | Test Configuration |
|--------------------------|---------------------|----------------------|---------------|--------------------|
| Radiated Emissions ≤1GHz | 5G 11ac VHT40 + BLE | 5230MHz + 2402MHz | MCS 0 + 1Mbps | --- |
| Radiated Emissions >1GHz | | | | |

NOTE:

1. 4 Adapters had been pretested and found that **Adapter 1** was the worst case and was selected for final testing. (Adapter 1: APD; Adapter 2: Delta, Adapter 3: LiteOn Adapter 4: NetBit).
2. The device has two versions for different HDMI port numbers (Version 1: HDMI port *1; Version 2: HDMI port *2). 2 versions had been pretested and found that **Version 2** was the worst case and was selected for final testing.
3. Antenna 1 and Antenna 2 had been pretested and found that **Antenna1** was the worst case and was selected for final testing. (Antenna 1: TSKY; Antenna 2: Mag.Layers).
4. The selected channel is the maximum power channel of each Wi-Fi and BT module.

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:

Quasi-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

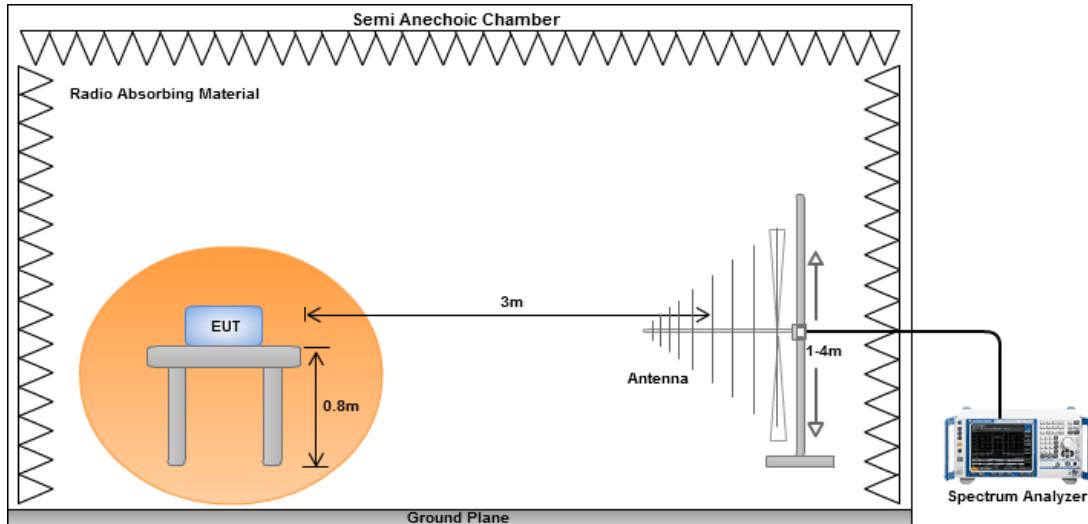
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

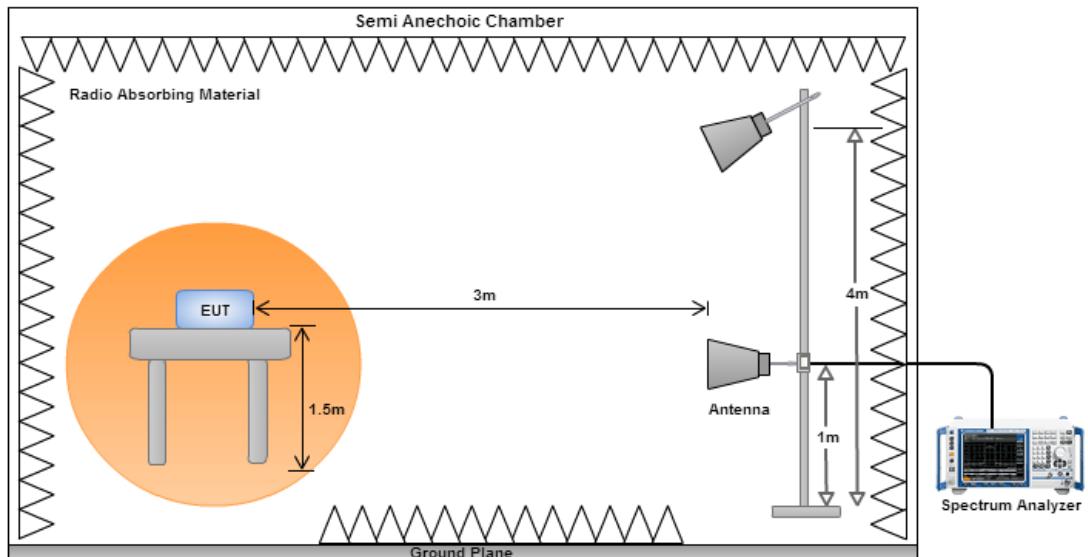
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.1.3 Test Setup

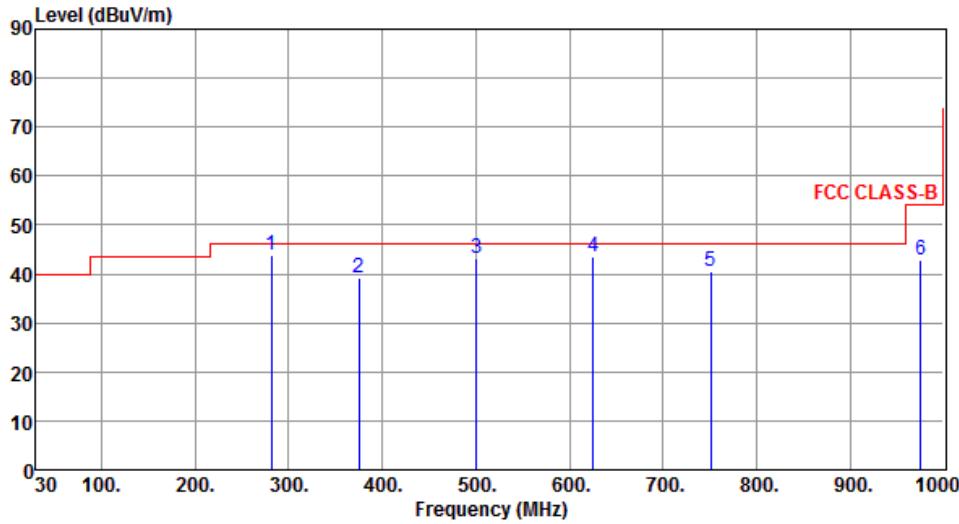
Radiated Emissions below 1 GHz

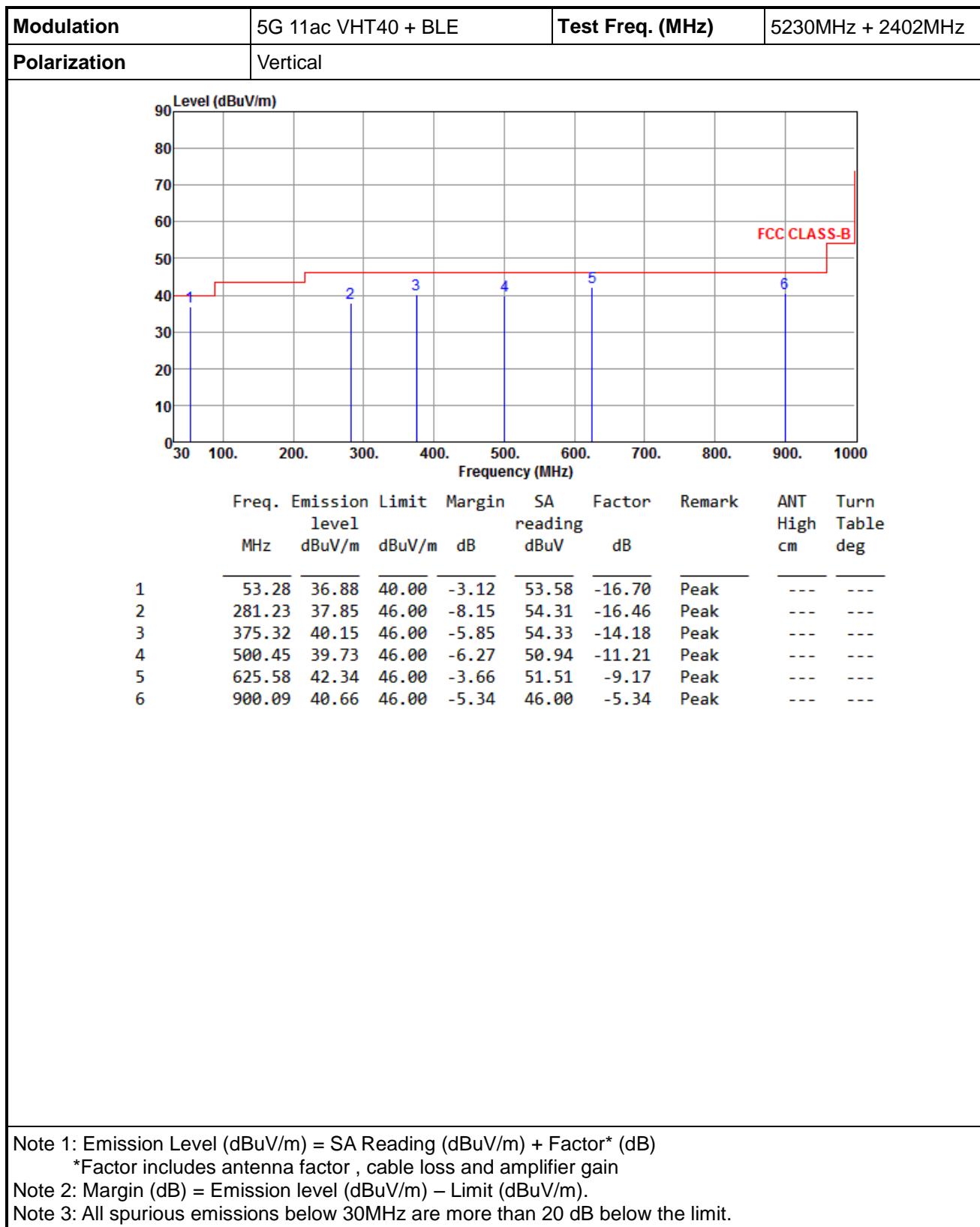


Radiated Emissions above 1 GHz

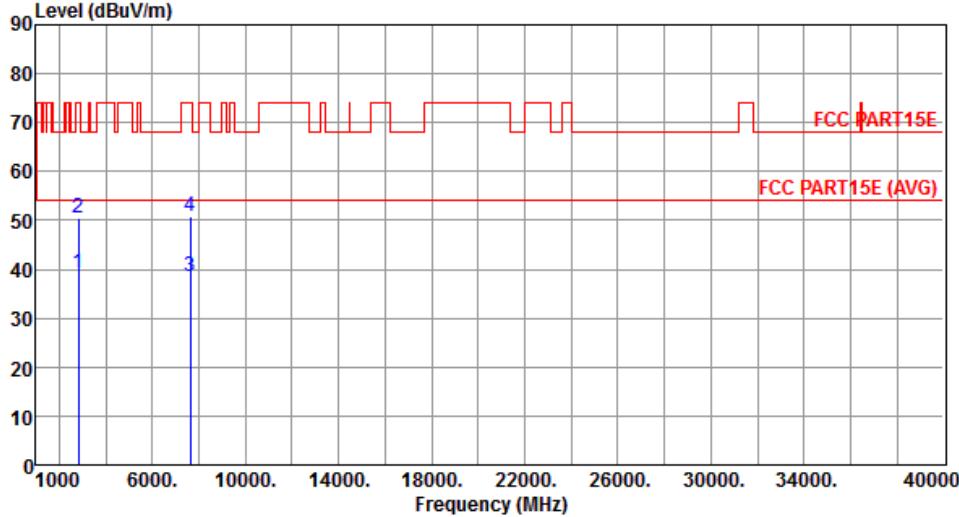


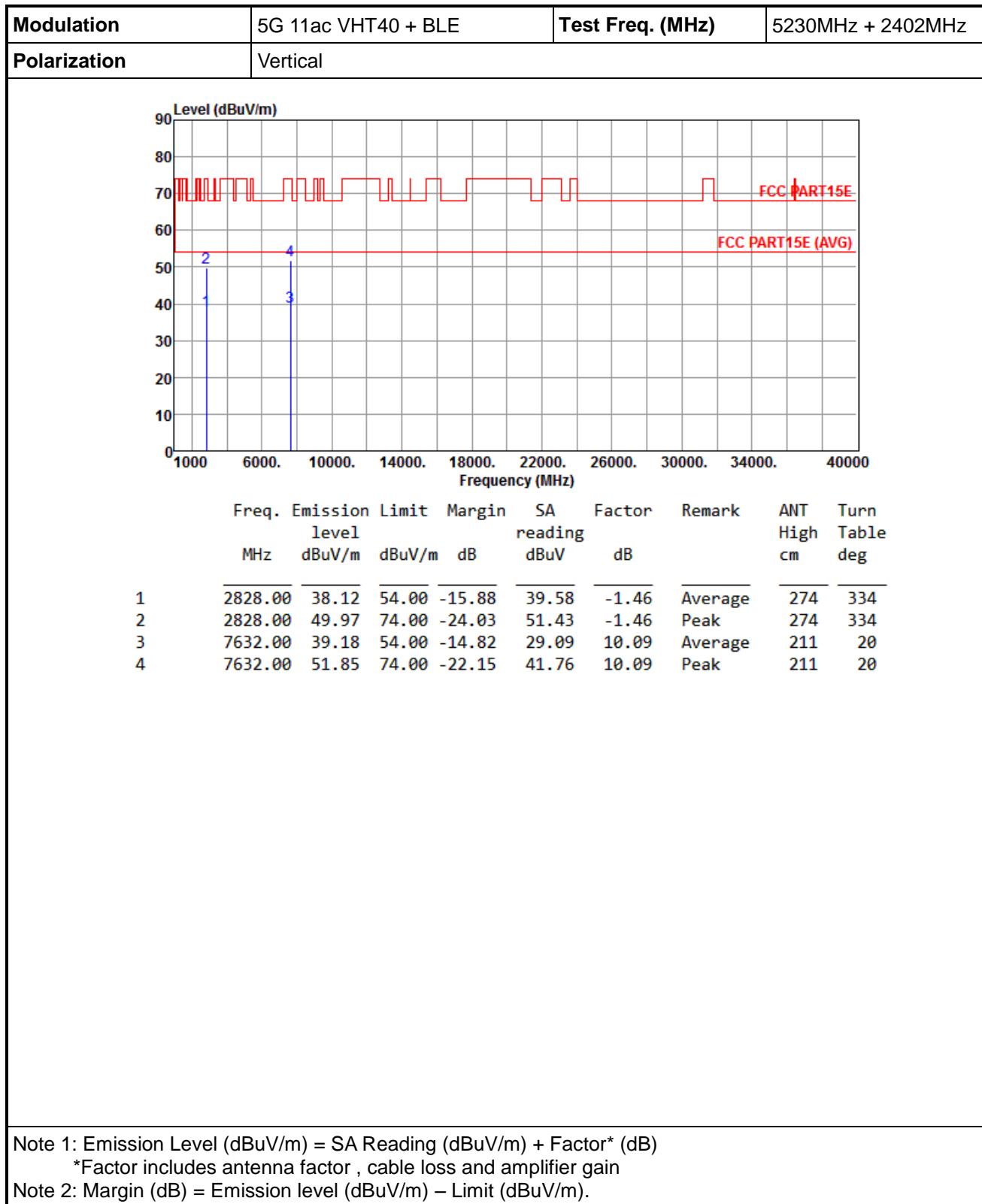
3.1.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

| Modulation | 5G 11ac VHT40 + BLE | Test Freq. (MHz) | 5230MHz + 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|------------------|-------------------|--------|----------|--------|--------|-------|--------|--------|-----|------|-----|-------|--------|--------|----|---------|------|------|-------|---|--------|-------|-------|-------|-------|--------|------|-----|---|--------|-------|-------|-------|-------|--------|------|-----|---|--------|-------|-------|-------|-------|--------|------|-----|---|--------|-------|-------|-------|-------|-------|------|-----|---|--------|-------|-------|-------|-------|-------|------|-----|---|--------|-------|-------|--------|-------|-------|------|-----|
| Polarization | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  FCC CLASS-B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Freq.</th> <th style="text-align: left;">Emission</th> <th style="text-align: left;">Limit</th> <th style="text-align: left;">Margin</th> <th style="text-align: left;">SA</th> <th style="text-align: left;">Factor</th> <th style="text-align: left;">Remark</th> <th style="text-align: left;">ANT</th> <th style="text-align: left;">Turn</th> </tr> <tr> <th style="text-align: left;">MHz</th> <th style="text-align: left;">level</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dB</th> <th style="text-align: left;">reading</th> <th style="text-align: left;">dBiV</th> <th style="text-align: left;">High</th> <th style="text-align: left;">Table</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">1</td> <td style="text-align: left;">281.23</td> <td style="text-align: left;">43.98</td> <td style="text-align: left;">46.00</td> <td style="text-align: left;">-2.02</td> <td style="text-align: left;">60.44</td> <td style="text-align: left;">-16.46</td> <td style="text-align: left;">Peak</td> <td style="text-align: left;">---</td> </tr> <tr> <td style="text-align: left;">2</td> <td style="text-align: left;">375.32</td> <td style="text-align: left;">39.28</td> <td style="text-align: left;">46.00</td> <td style="text-align: left;">-6.72</td> <td style="text-align: left;">53.46</td> <td style="text-align: left;">-14.18</td> <td style="text-align: left;">Peak</td> <td style="text-align: left;">---</td> </tr> <tr> <td style="text-align: left;">3</td> <td style="text-align: left;">500.45</td> <td style="text-align: left;">43.23</td> <td style="text-align: left;">46.00</td> <td style="text-align: left;">-2.77</td> <td style="text-align: left;">54.44</td> <td style="text-align: left;">-11.21</td> <td style="text-align: left;">Peak</td> <td style="text-align: left;">---</td> </tr> <tr> <td style="text-align: left;">4</td> <td style="text-align: left;">625.58</td> <td style="text-align: left;">43.36</td> <td style="text-align: left;">46.00</td> <td style="text-align: left;">-2.64</td> <td style="text-align: left;">52.53</td> <td style="text-align: left;">-9.17</td> <td style="text-align: left;">Peak</td> <td style="text-align: left;">---</td> </tr> <tr> <td style="text-align: left;">5</td> <td style="text-align: left;">750.71</td> <td style="text-align: left;">40.57</td> <td style="text-align: left;">46.00</td> <td style="text-align: left;">-5.43</td> <td style="text-align: left;">47.65</td> <td style="text-align: left;">-7.08</td> <td style="text-align: left;">Peak</td> <td style="text-align: left;">---</td> </tr> <tr> <td style="text-align: left;">6</td> <td style="text-align: left;">975.75</td> <td style="text-align: left;">42.86</td> <td style="text-align: left;">54.00</td> <td style="text-align: left;">-11.14</td> <td style="text-align: left;">47.28</td> <td style="text-align: left;">-4.42</td> <td style="text-align: left;">Peak</td> <td style="text-align: left;">---</td> </tr> </tbody> </table> | | | | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | MHz | level | dBuV/m | dBuV/m | dB | reading | dBiV | High | Table | 1 | 281.23 | 43.98 | 46.00 | -2.02 | 60.44 | -16.46 | Peak | --- | 2 | 375.32 | 39.28 | 46.00 | -6.72 | 53.46 | -14.18 | Peak | --- | 3 | 500.45 | 43.23 | 46.00 | -2.77 | 54.44 | -11.21 | Peak | --- | 4 | 625.58 | 43.36 | 46.00 | -2.64 | 52.53 | -9.17 | Peak | --- | 5 | 750.71 | 40.57 | 46.00 | -5.43 | 47.65 | -7.08 | Peak | --- | 6 | 975.75 | 42.86 | 54.00 | -11.14 | 47.28 | -4.42 | Peak | --- |
| Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | level | dBuV/m | dBuV/m | dB | reading | dBiV | High | Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 281.23 | 43.98 | 46.00 | -2.02 | 60.44 | -16.46 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 375.32 | 39.28 | 46.00 | -6.72 | 53.46 | -14.18 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 500.45 | 43.23 | 46.00 | -2.77 | 54.44 | -11.21 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 625.58 | 43.36 | 46.00 | -2.64 | 52.53 | -9.17 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 750.71 | 40.57 | 46.00 | -5.43 | 47.65 | -7.08 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 975.75 | 42.86 | 54.00 | -11.14 | 47.28 | -4.42 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *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)

| Modulation | 5G 11ac VHT40 + BLE | Test Freq. (MHz) | 5230MHz + 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|------------------|-------------------|---------|--------|----------------|--------|-------|--------|--------|-----|------|--|-------|-------|--------|---------|--------|--|------|-------|--|-----|--------|----|------|----|--|----|-----|---|---------|-------|-------|--------|-------|-------|-----|-----|---|---------|-------|-------|--------|-------|-------|-----|-----|---|---------|-------|-------|--------|-------|-------|-----|---|---|---------|-------|-------|--------|-------|-------|-----|---|
| Polarization | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th></th> <th>Freq.</th> <th>Emission Limit</th> <th>Margin</th> <th>SA</th> <th>Factor</th> <th>Remark</th> <th>ANT</th> <th>Turn</th> </tr> <tr> <th></th> <th>level</th> <th>level</th> <th>Margin</th> <th>reading</th> <th>Factor</th> <th></th> <th>High</th> <th>Table</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2828.00</td> <td>39.06</td> <td>54.00</td> <td>-14.94</td> <td>40.52</td> <td>-1.46</td> <td>129</td> <td>284</td> </tr> <tr> <td>2</td> <td>2828.00</td> <td>50.57</td> <td>74.00</td> <td>-23.43</td> <td>52.03</td> <td>-1.46</td> <td>129</td> <td>284</td> </tr> <tr> <td>3</td> <td>7632.00</td> <td>38.45</td> <td>54.00</td> <td>-15.55</td> <td>28.36</td> <td>10.09</td> <td>211</td> <td>0</td> </tr> <tr> <td>4</td> <td>7632.00</td> <td>50.86</td> <td>74.00</td> <td>-23.14</td> <td>40.77</td> <td>10.09</td> <td>211</td> <td>0</td> </tr> </tbody> </table> | | | | | Freq. | Emission Limit | Margin | SA | Factor | Remark | ANT | Turn | | level | level | Margin | reading | Factor | | High | Table | | MHz | dBuV/m | dB | dBuV | dB | | cm | deg | 1 | 2828.00 | 39.06 | 54.00 | -14.94 | 40.52 | -1.46 | 129 | 284 | 2 | 2828.00 | 50.57 | 74.00 | -23.43 | 52.03 | -1.46 | 129 | 284 | 3 | 7632.00 | 38.45 | 54.00 | -15.55 | 28.36 | 10.09 | 211 | 0 | 4 | 7632.00 | 50.86 | 74.00 | -23.14 | 40.77 | 10.09 | 211 | 0 |
| | Freq. | Emission Limit | Margin | SA | Factor | Remark | ANT | Turn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | level | level | Margin | reading | Factor | | High | Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV | dB | | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2828.00 | 39.06 | 54.00 | -14.94 | 40.52 | -1.46 | 129 | 284 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2828.00 | 50.57 | 74.00 | -23.43 | 52.03 | -1.46 | 129 | 284 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 7632.00 | 38.45 | 54.00 | -15.55 | 28.36 | 10.09 | 211 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 7632.00 | 50.86 | 74.00 | -23.14 | 40.77 | 10.09 | 211 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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 Corp, 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 Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

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R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd
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Hsien 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

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

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Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

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