

# IC Reassessment Test Report

**IC** : 3147A-WB45NBT  
**Equipment** : 45 Series WB module with Bluetooth  
**Model No.** : WB45NBT  
**Brand Name** : Laird Technologies  
**Applicant** : Laird Technologies  
**Address** : 11160 Thompson Ave. / Lenexa, Kansas /  
66219 / USA  
**Standard** : RSS-247 Issue 1 May 2015  
**Received Date** : Jul. 29, 2015  
**Tested Date** : Aug. 12 ~ Aug. 24, 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   |
|---------------|---------|---------------|---------------|
| CR350301-01AI | Rev. 01 | Initial issue | Sep. 15, 2015 |

## Summary of Test Results

| IC Rules            | Test Items                  | Measured  | Result |
|---------------------|-----------------------------|---|--------|
| 8.8 of RSS-Gen      | Conducted Emissions         | [dBuV]: 0.159MHz<br>49.69 (Margin -15.83dB) - QP          | Pass   |
| 6.2.4(2) of RSS-247 | Radiated Emissions          | [dBuV/m at 3m]: 5725.00MHz<br>77.19 (Margin -1.01dB) - PK | Pass   |
| ---                 | Emission Bandwidth          | Meet the requirement of limit                             | Pass   |
| 6.2.4(1) of RSS-247 | 6dB bandwidth               | Meet the requirement of limit                             | Pass   |
| 6.2.4(1) of RSS-247 | RF Output Power             | Max Conducted Power [dBm]:18.71                           | Pass   |
| 6.2.4(1) of RSS-247 | Peak Power Spectral Density | Meet the requirement of limit                             | Pass   |
| ---                 | Frequency Stability         | Meet the requirement of limit                             | Pass   |
| ---                 | Antenna Requirement         | Meet the requirement of limit                             | Pass   |

# 1 General Description

## 1.1 Information

This report is prepared for IC reassessment.

This report is issued as a supplementary report to original ICC report no. CR350301AI. The modification is concerned with following:

- ✧ Additional Dipole antennas.
- ✧ Remove components to cancel BT / Wi-Fi diversity function and replace components for NAND flash.

Therefore, all tests had been re-tested and presented in the following sections.

### 1.1.1 Specification of the Equipment under Test (EUT)

| RF General Information   |                  |                 |                |                                    |                 |
|--|------------------|-----------------|----------------|------------------------------------|-----------------|
| Frequency Range (MHz)  | IEEE Std. 802.11 | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N <sub>TX</sub> ) | Data Rate / MCS |
| 5725-5850  | a                | 5745-5825       | 149-165 [5]    | 1                                  | 6-54 Mbps       |
| 5725-5850  | n (HT20)         | 5745-5825       | 149-165 [5]    | 1                                  | MCS 0-7         |
| Note 1: RF output power specifies that Maximum Conducted Output Power.<br>Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.<br>Note 3: 802.11n supports HT20 only. |                  |                 |                |                                    |                 |

### 1.1.2 Antenna Details (The additional antennas were marked in boldface.)

| Ant. No. | Brand /Model                             | Type          | Connector           | Operating Frequencies (MHz) / Antenna Gain (dBi) |             |            |             |             |
|----------|--|---------------|---------------------|--|-------------|------------|-------------|-------------|
|          |  |               |                     | 2400~2483.5                                      | 5150~5250   | 5250~5350  | 5470~5725   | 5725~5850   |
| 1        | MAG.LAYERS<br>EDA-1513-25GR2-B2-CY       | Dipole        | SMA Jack<br>Reverse | 2  | 2           | 2          | 2           | 2           |
| 2        | MAG.LAYERS<br>PCA-4606-2G4C1-A13-CY      | PCB<br>Dipole | UFL                 | 2.21   | 2.21        | 2.21       | 2.21        | 2.21        |
| 3        | Larid<br>NanoBlade-IP04                  | PCB<br>Dipole | UFL                 | 2  | 3.9         | 3.9        | 4           | 4           |
| 4        | Larid<br>MAF95310 Mini NanoBlade<br>Flex | PCB<br>Dipole | UFL                 | 2.79   | 3.38        | 3.38       | 3.38        | 3.38        |
| 5        | Larid<br>NanoBlue-IP04                   | PCB<br>Dipole | UFL                 | 2  | ---         | ---        | ---         | ---         |
| 6        | Ethertronics<br>WLAN_1000146             | PIFA          | UFL                 | 2.5  | 3.5         | 3.5        | 3.5         | 3.5         |
| 7        | <b>SAA<br/>MG7018-41-000-R</b>           | <b>Dipole</b> | <b>UFL</b>          | <b>1.87</b>                                      | <b>0.85</b> | <b>0.6</b> | <b>0.94</b> | <b>0.92</b> |
| 8        | <b>SAA<br/>MG7324-41-000-R</b>           | <b>Dipole</b> | <b>UFL</b>          | <b>1.32</b>                                      | <b>1.04</b> | <b>1.6</b> | <b>2.75</b> | <b>2.24</b> |

### 1.1.3 Power Supply Type of Equipment under Test (EUT)

|                          |                             |
|--------------------------|-----------------------------|
| <b>Power Supply Type</b> | 3.3Vdc or 1.8Vdc from host. |
|--------------------------|-----------------------------|

### 1.1.4 Accessories

N/A

### 1.1.5 Channel List

| For Frequency band 5725~5850 MHz |                |
|----------------------------------|----------------|
| 802.11 a / HT20                  |                |
| Channel                          | Frequency(MHz) |
| 149                              | 5745           |
| 153                              | 5765           |
| 157                              | 5785           |
| 161                              | 5805           |
| 165                              | 5825           |

### 1.1.6 Test Tool and Duty Cycle

|                                   |                               |                       |                         |
|-----------------------------------|-------------------------------|-----------------------|-------------------------|
| <b>Test Tool</b>                  | VC_Example_windows_forms V1.3 |                       |                         |
| <b>Duty Cycle and Duty Factor</b> | <b>Mode</b>                   | <b>Duty cycle (%)</b> | <b>Duty factor (dB)</b> |
|                                   | 11a                           | 99.59%                | 0.02                    |
|                                   | HT20                          | 99.56%                | 0.02                    |

### 1.1.7 Power Setting

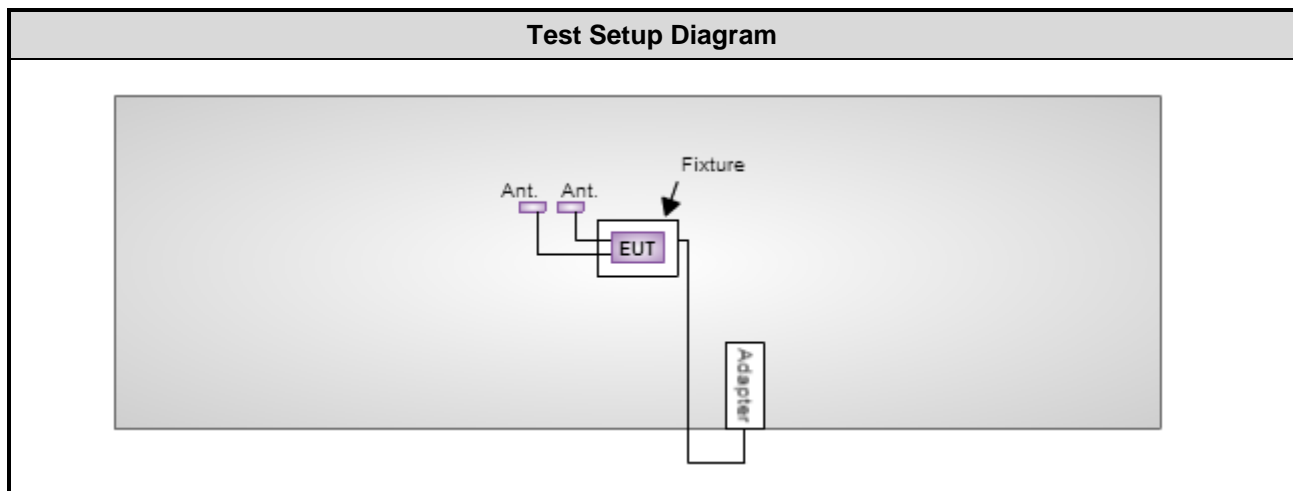
| Modulation Mode | Test Frequency (MHz) | Power Set |
|-----------------|----------------------|-----------|
| 11a             | 5745                 | 18        |
| 11a             | 5785                 | 20        |
| 11a             | 5825                 | 20        |
| HT20            | 5745                 | 17.5      |
| HT20            | 5785                 | 20        |
| HT20            | 5825                 | 20        |

## 1.2 Local Support Equipment List

| Support Equipment List |           |       |       |        |                           |
|------------------------|-----------|-------|-------|--------|---------------------------|
| No.                    | Equipment | Brand | Model | FCC ID | Signal cable / Length (m) |
| 1                      | Fixture   | ---   | ---   | ---    | ---                       |

Note: No.1 was provided by applicant

## 1.3 Test Setup Chart



## 1.4 The Equipment List

|   |                               |                  |                   |                         |                          |
|---|-------------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>  | Conducted Emission            |                  |                   |                         |                          |
| <b>Test Site</b>  | Conduction room 1 / (CO01-WS) |                  |                   |                         |                          |
| <b>Instrument</b>   | <b>Manufacturer</b>           | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| EMC Receiver  | R&S                           | ESCS 30          | 100169            | Oct. 17, 2014           | Oct. 16, 2015            |
| LISN  | SCHWARZBECK                   | Schwarzbeck 8127 | 8127-667          | Nov. 17, 2014           | Nov. 16, 2015            |
| RF Cable-CON  | Woken                         | CFD200-NL        | CFD200-NL-001     | Dec. 31, 2014           | Dec. 30, 2015            |
| Measurement Software  | AUDIX                         | e3               | 6.120210k         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                               |                  |                   |                         |                          |

|   |                             |                  |                   |                         |                          |
|---|-----------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>  | Radiated Emission           |                  |                   |                         |                          |
| <b>Test Site</b>  | 966 chamber 2 / (03CH02-WS) |                  |                   |                         |                          |
| <b>Instrument</b>   | <b>Manufacturer</b>         | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer   | R&S                         | FSV40            | 101499            | Dec. 31, 2014           | Dec. 30, 2015            |
| Receiver  | R&S                         | ESR3             | 101657            | Jan. 15, 2015           | Jan. 14, 2016            |
| Bilog Antenna   | SCHWARZBECK                 | VULB9168         | VULB9168-524      | Oct. 16, 2014           | Oct. 15, 2015            |
| Horn Antenna 1G-18G   | SCHWARZBECK                 | BBHA 9120 D      | BBHA 9120 D 1095  | Oct. 14, 2014           | Oct. 13, 2015            |
| Horn Antenna 18G-40G  | SCHWARZBECK                 | BBHA 9170        | BBHA 9170517      | Nov. 10, 2014           | Nov. 09, 2015            |
| Loop Antenna  | R&S                         | HFH2-Z2          | 11900             | Nov. 10, 2014           | Nov. 09, 2015            |
| Preamplifier  | Burgeon                     | BPA-530          | 100218            | Nov. 10, 2014           | Nov. 09, 2015            |
| Preamplifier  | Agilent                     | 83017A           | MY39501309        | Sep. 29, 2014           | Sep. 28, 2015            |
| Preamplifier  | EMC                         | EMC184045B       | 980192            | Aug. 26, 2014           | Aug. 25, 2015            |
| RF Cable  | HUBER+SUHNER                | SUCOFLEX104      | MY16140/4         | Dec. 16, 2014           | Dec. 15, 2015            |
| RF Cable  | HUBER+SUHNER                | SUCOFLEX104      | MY16018/4         | Dec. 16, 2014           | Dec. 15, 2015            |
| RF Cable  | HUBER+SUHNER                | SUCOFLEX104      | MY16015/4         | Dec. 16, 2014           | Dec. 15, 2015            |
| LF cable 3M   | Woken                       | CFD400NL-LW      | CFD400NL-003      | Dec. 16, 2014           | Dec. 15, 2015            |
| LF cable 10M  | Woken                       | CFD400NL-LW      | CFD400NL-004      | Dec. 16, 2014           | Dec. 15, 2015            |
| Measurement Software  | AUDIX                       | e3               | 6.120210g         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                             |                  |                   |                         |                          |

|   |                     |                  |                   |                         |                          |
|---|---------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>  | RF Conducted        |                  |                   |                         |                          |
| <b>Test Site</b>  | (TH01-WS)           |                  |                   |                         |                          |
| <b>Instrument</b>   | <b>Manufacturer</b> | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer   | R&S                 | FSV40            | 101063            | Feb. 03, 2015           | Feb. 02, 2016            |
| TEMP&HUMIDITY CHAMBER   | GIANT FORCE         | GCT-225-40-SP-SD | MAF1212-002       | Dec. 03, 2014           | Dec. 02, 2015            |
| Power Meter   | Anritsu             | ML2495A          | 1241002           | Sep. 29, 2014           | Sep. 28, 2015            |
| Power Sensor  | Anritsu             | MA2411B          | 1207366           | Sep. 29, 2014           | Sep. 28, 2015            |
| Measurement Software  | Sporton             | Sporton_1        | 1.3.30            | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                     |                  |                   |                         |                          |



## 1.5 Testing Applied Standards

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

RSS-247 Issue 1 May 2015

RSS-Gen Issue 4 November 2014

ANSI C63.10-2013

ANSI C63.4-2009

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

## 1.6 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    |
| Conducted emission             | $\pm 2.670$ dB |
| AC conducted emission          | $\pm 2.92$ dB  |
| Radiated emission $\leq 1$ GHz | $\pm 3.62$ dB  |
| Radiated emission $> 1$ GHz    | $\pm 5.60$ dB  |

## 2 Test Configuration

### 2.1 Testing Condition

| Test Item          | Test Site | Ambient Condition | Tested By                   |
|--------------------|-----------|-------------------|-----------------------------|
| AC Conduction      | CO01-WS   | 22°C / 59%        | Kevin Ma                    |
| Radiated Emissions | 03CH02-WS | 21-23°C / 61-63%  | Anderson Hung<br>Felix Sung |
| RF Conducted       | TH01-WS   | 23°C / 62%        | Felix Sung                  |

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-2

### 2.2 The Worst Test Modes and Channel Details

| Test item  | Modulation Mode | Test Frequency (MHz) | Data Rate (Mbps) / MCS | Test Configuration |
|--|-----------------|----------------------|------------------------|--------------------|
| Conducted Emissions  | 11a             | 5825                 | 6 Mbps                 | 4                  |
| Radiated Emissions ≤1GHz   | 11a             | 5825                 | 6 Mbps                 | 1, 2, 3, 4         |
| RF Output Power  | 11a             | 5745 / 5785 / 5825   | 6 Mbps                 | 1, 2, 3, 4         |
|  | HT20            | 5745 / 5785 / 5825   | MCS 0                  |                    |
| Radiated Emissions >1GHz<br>Emission Bandwidth<br>6dB bandwidth<br>Peak Power Spectral Density | 11a             | 5745 / 5785 / 5825   | 6 Mbps                 | 4                  |
|  | HT20            | 5745 / 5785 / 5825   | MCS 0                  |                    |
| Frequency Stability  | Un-modulation   | 5785                 | ---                    | 4                  |

**NOTE:**

- 3 types antenna are used for this device.
- For original antennas, the highest gain antenna of each type is selected to perform related test item as below test configuration.
- For additional antennas, the highest gain antenna is selected to perform all test items as configuration 4.
- Test configurations are listed as below:
  - Configuration 1: Dipole antenna (Antenna No.1), Y-plane.
  - Configuration 2 : PCB Dipole antenna (Antenna No.3) , Y-plane
  - Configuration 3 : PIFA antenna (Antenna No.6) , Y-plane
  - Configuration 4 : Dipole antenna (Antenna No.8) , Y-plane
- The EUT supports two DC voltage options, 3.3Vdc and 1.8Vdc. Both options were assessed and 3.3Vdc was found to be the worst case and was selected for the final test.

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

| Conducted Emissions Limit |            |           |
|---------------------------|------------|-----------|
| Frequency Emission (MHz)  | Quasi-Peak | Average   |
| 0.15-0.5                  | 66 - 56 *  | 56 - 46 * |
| 0.5-5                     | 56         | 46        |
| 5-30                      | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

##### 3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

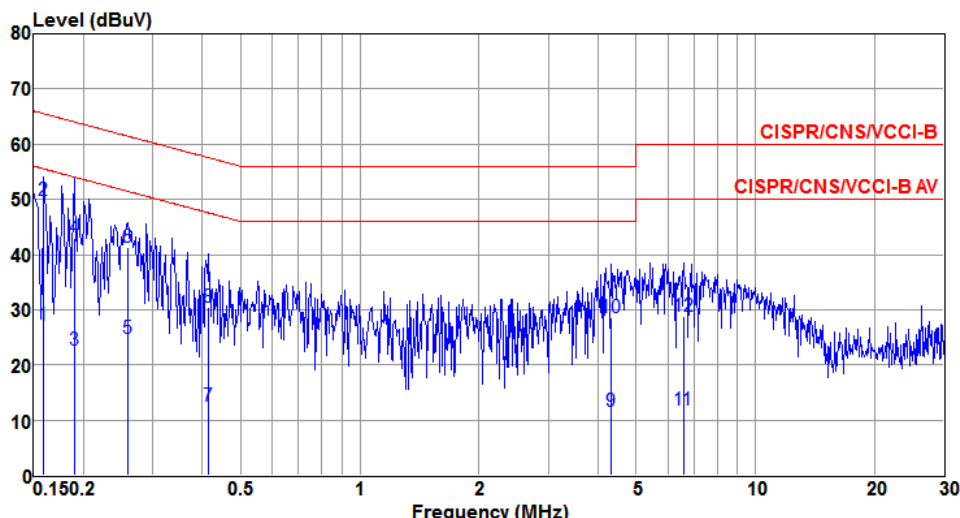
##### 3.1.3 Test Setup



- Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

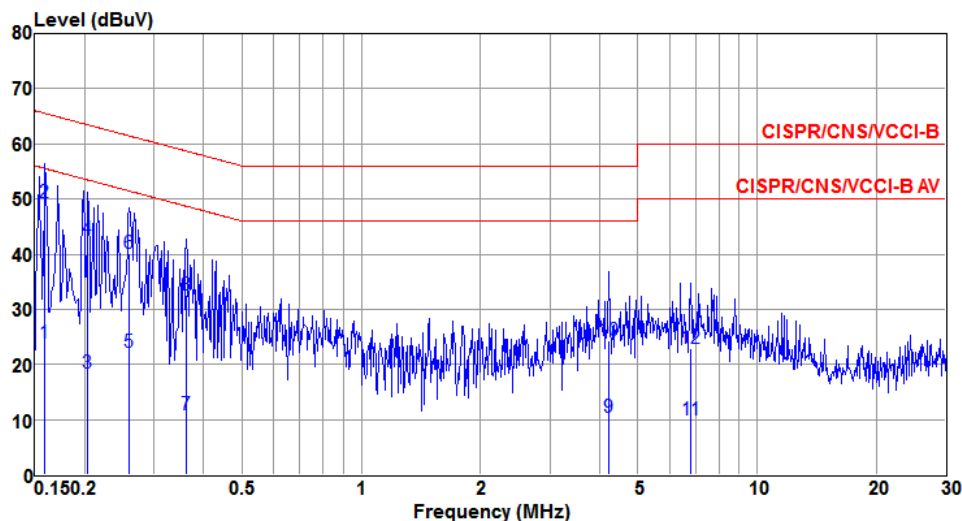
|             |      |                    |      |
|-------------|------|--------------------|------|
| Modulation  | 11a  | Test Freq. (MHz)   | 5825 |
| Power Phase | Line | Test Configuration | 4    |

|    | Freq  | Level | Limit | Over   | Read  | LISN   | cable |         |
|----|-------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz   | dBuV  | dBuV  | Limit  | Level | factor | loss  | Remark  |
|    |       |       |       | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.159 | 27.10 | 55.52 | -28.42 | 26.23 | 0.79   | 0.08  | Average |
| 2* | 0.159 | 49.69 | 65.52 | -15.83 | 48.82 | 0.79   | 0.08  | QP      |
| 3  | 0.189 | 22.74 | 54.06 | -31.32 | 22.29 | 0.36   | 0.09  | Average |
| 4  | 0.189 | 42.93 | 64.06 | -21.13 | 42.48 | 0.36   | 0.09  | QP      |
| 5  | 0.259 | 24.77 | 51.47 | -26.70 | 24.45 | 0.22   | 0.10  | Average |
| 6  | 0.259 | 41.41 | 61.47 | -20.06 | 41.09 | 0.22   | 0.10  | QP      |
| 7  | 0.415 | 12.51 | 47.55 | -35.04 | 12.22 | 0.18   | 0.11  | Average |
| 8  | 0.415 | 30.52 | 57.55 | -27.03 | 30.23 | 0.18   | 0.11  | QP      |
| 9  | 4.315 | 11.65 | 46.00 | -34.35 | 11.05 | 0.29   | 0.31  | Average |
| 10 | 4.315 | 28.68 | 56.00 | -27.32 | 28.08 | 0.29   | 0.31  | QP      |
| 11 | 6.592 | 11.84 | 50.00 | -38.16 | 11.06 | 0.48   | 0.30  | Average |
| 12 | 6.592 | 28.83 | 60.00 | -31.17 | 28.05 | 0.48   | 0.30  | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|             |         |                    |      |
|-------------|---------|--------------------|------|
| Modulation  | 11a     | Test Freq. (MHz)   | 5825 |
| Power Phase | Neutral | Test Configuration | 4    |



|    | Freq  | Level | Limit | Over   | Read  | LISN   | cable |         |
|----|-------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz   | dBuV  | Line  | Limit  | Level | factor | loss  | Remark  |
|    |       |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.159 | 23.95 | 55.52 | -31.57 | 23.14 | 0.73   | 0.08  | Average |
| 2* | 0.159 | 49.28 | 65.52 | -16.24 | 48.47 | 0.73   | 0.08  | QP      |
| 3  | 0.204 | 18.37 | 53.45 | -35.08 | 18.04 | 0.24   | 0.09  | Average |
| 4  | 0.204 | 42.71 | 63.45 | -20.74 | 42.38 | 0.24   | 0.09  | QP      |
| 5  | 0.259 | 22.18 | 51.47 | -29.29 | 21.88 | 0.20   | 0.10  | Average |
| 6  | 0.259 | 40.08 | 61.47 | -21.39 | 39.78 | 0.20   | 0.10  | QP      |
| 7  | 0.361 | 10.91 | 48.69 | -37.78 | 10.65 | 0.15   | 0.11  | Average |
| 8  | 0.361 | 32.51 | 58.69 | -26.18 | 32.25 | 0.15   | 0.11  | QP      |
| 9  | 4.224 | 10.41 | 46.00 | -35.59 | 9.37  | 0.73   | 0.31  | Average |
| 10 | 4.224 | 24.31 | 56.00 | -31.69 | 23.27 | 0.73   | 0.31  | QP      |
| 11 | 6.805 | 9.81  | 50.00 | -40.19 | 8.90  | 0.61   | 0.30  | Average |
| 12 | 6.805 | 22.99 | 60.00 | -37.01 | 22.08 | 0.61   | 0.30  | QP      |

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

## 3.2 Emission Bandwidth

### 3.2.1 Limit of Emission bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 3.2.2 Test Procedures

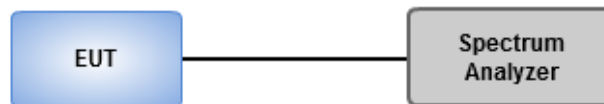
#### Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW
2. Set VBW  $\geq$  3 RBW
3. Sample detection and single sweep mode shall be used
4. Use the 99 % power bandwidth function of the instrument

#### 6dB Bandwidth

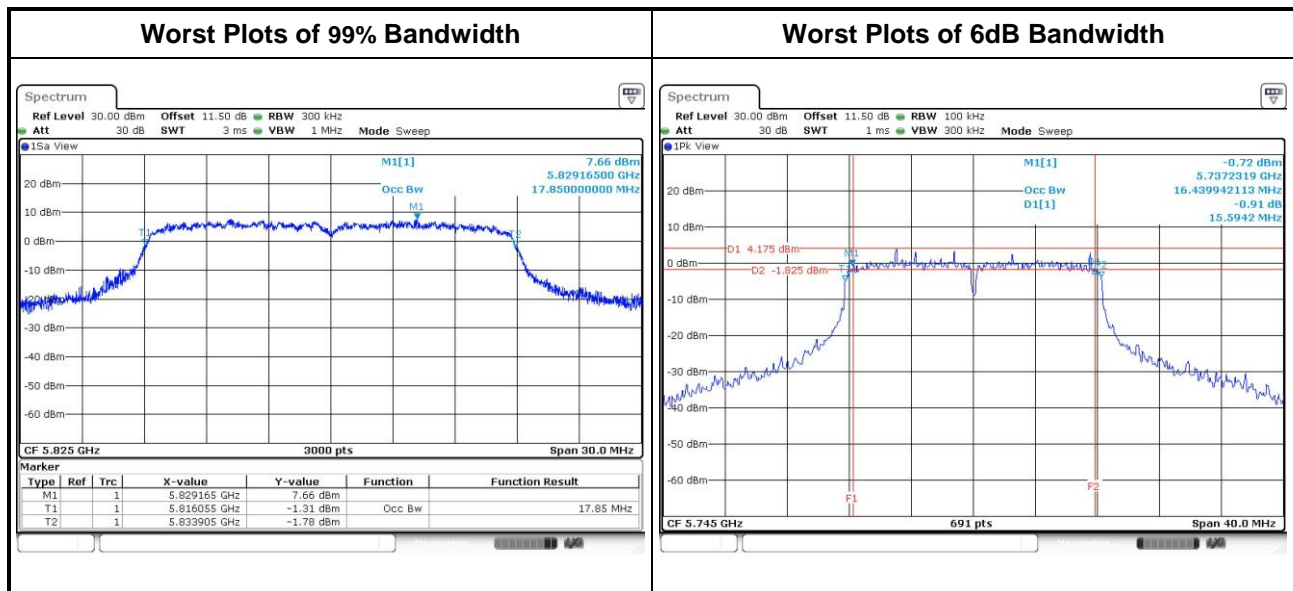
1. Set RBW = 100kHz, VBW = 300kHz
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

### 3.2.3 Test Setup



### 3.2.4 Test Result of Emission Bandwidth

| Emission Bandwidth |                 |             |                     |         |         |         |                     |         |         |         |                    |
|--------------------|-----------------|-------------|---------------------|---------|---------|---------|---------------------|---------|---------|---------|--------------------|
| Mode               | N <sub>TX</sub> | Freq. (MHz) | OBW Bandwidth (MHz) |         |         |         | 6dB Bandwidth (MHz) |         |         |         |                    |
|                    |                 |             | Chain 0             | Chain 1 | Chain 2 | Chain 3 | Chain 0             | Chain 1 | Chain 2 | Chain 3 | 6dB BW Limit (MHz) |
| 11a                | 1               | 5745        | 16.64               | ---     | ---     | ---     | 15.59               | ---     | ---     | ---     | 0.5                |
| 11a                | 1               | 5785        | 16.76               | ---     | ---     | ---     | 15.77               | ---     | ---     | ---     | 0.5                |
| 11a                | 1               | 5825        | 16.72               | ---     | ---     | ---     | 15.65               | ---     | ---     | ---     | 0.5                |
| HT20               | 1               | 5745        | 17.76               | ---     | ---     | ---     | 16.81               | ---     | ---     | ---     | 0.5                |
| HT20               | 1               | 5785        | 17.84               | ---     | ---     | ---     | 16.75               | ---     | ---     | ---     | 0.5                |
| HT20               | 1               | 5825        | 17.85               | ---     | ---     | ---     | 16.81               | ---     | ---     | ---     | 0.5                |



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

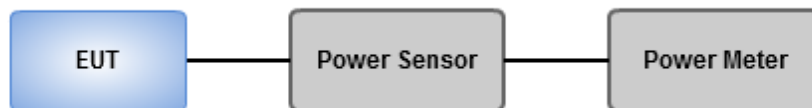
| Frequency Band (MHz)                |                             | Limit                         |                         |
|-------------------------------------|-----------------------------|-------------------------------|-------------------------|
| <input type="checkbox"/>            | 5150 ~ 5250                 | EIRP: 200mW or 10dBm+10 log B |                         |
| <input type="checkbox"/>            | 5250 ~ 5350                 | Conducted Power               | 250mW or 11dBm+10 log B |
|                                     |                             | EIRP                          | 1W or 17dBm+10 log B    |
| <input type="checkbox"/>            | 5470 ~ 5600 and 5650 ~ 5725 | Conducted Power               | 250mW or 11dBm+10 log B |
|                                     |                             | EIRP                          | 1W or 17dBm+10 log B    |
| <input checked="" type="checkbox"/> | 5725 ~ 5850                 | Conducted Power: 1 W          |                         |

Note: "B" is the 99% Occupied Bandwidth in MHz.

#### 3.3.2 Test Procedures

- ☒ **Method PM-G ( Measurement using a gated RF average power meter )**
  - ☒ Measurements may is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

#### 3.3.3 Test Setup



#### 3.3.4 Test Result of Maximum Conducted Output Power

| For Frequency band 5725-5850 MHz |                 |             |                       |         |         |         |                  |                   |             |
|----------------------------------|-----------------|-------------|-----------------------|---------|---------|---------|------------------|-------------------|-------------|
| Mode                             | N <sub>TX</sub> | Freq. (MHz) | Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
|                                  |                 |             | Chain 0               | Chain 1 | Chain 2 | Chain 3 |                  |                   |             |
| 11a                              | 1               | 5745        | 15.62                 | ---     | ---     | ---     | 36.475           | 15.62             | 30.00       |
| 11a                              | 1               | 5785        | 18.43                 | ---     | ---     | ---     | 69.663           | 18.43             | 30.00       |
| 11a                              | 1               | 5825        | 18.71                 | ---     | ---     | ---     | 74.302           | <b>18.71</b>      | 30.00       |
| HT20                             | 1               | 5745        | 15.16                 | ---     | ---     | ---     | 32.810           | 15.16             | 30.00       |
| HT20                             | 1               | 5785        | 18.39                 | ---     | ---     | ---     | 69.024           | 18.39             | 30.00       |
| HT20                             | 1               | 5825        | 18.69                 | ---     | ---     | ---     | 73.961           | 18.69             | 30.00       |



### 3.4 Peak Power Spectral Density

#### 3.4.1 Limit of Peak Power Spectral Density

| Frequency Band (MHz)                |                                | Limit  |
|-------------------------------------|--------------------------------|--|
| <input type="checkbox"/>            | 5150 ~ 5250                    | The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band. |
| <input type="checkbox"/>            | 5250 ~ 5350                    | The power spectral density shall not exceed 11 dBm in any 1.0 MHz band     |
| <input type="checkbox"/>            | 5470 ~ 5600 and<br>5650 ~ 5725 | The power spectral density shall not exceed 11 dBm in any 1.0 MHz band     |
| <input checked="" type="checkbox"/> | 5725 ~ 5850                    | The power spectral density shall not exceed 30 dBm in any 500 kHz band.    |

#### 3.4.2 Test Procedures

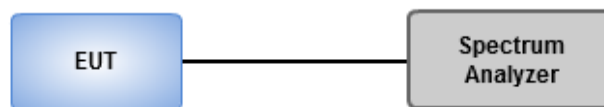
☒ Method SA-1

1. Set RBW = 500 kHz, VBW = 2 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

☐ Method SA-2 Alternative

1. Set RBW = 500 kHz, VBW = 2 MHz, Detector = RMS.
2. Set sweep time  $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$ .
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add  $10 \log(1/x)$ , where x is the duty cycle.

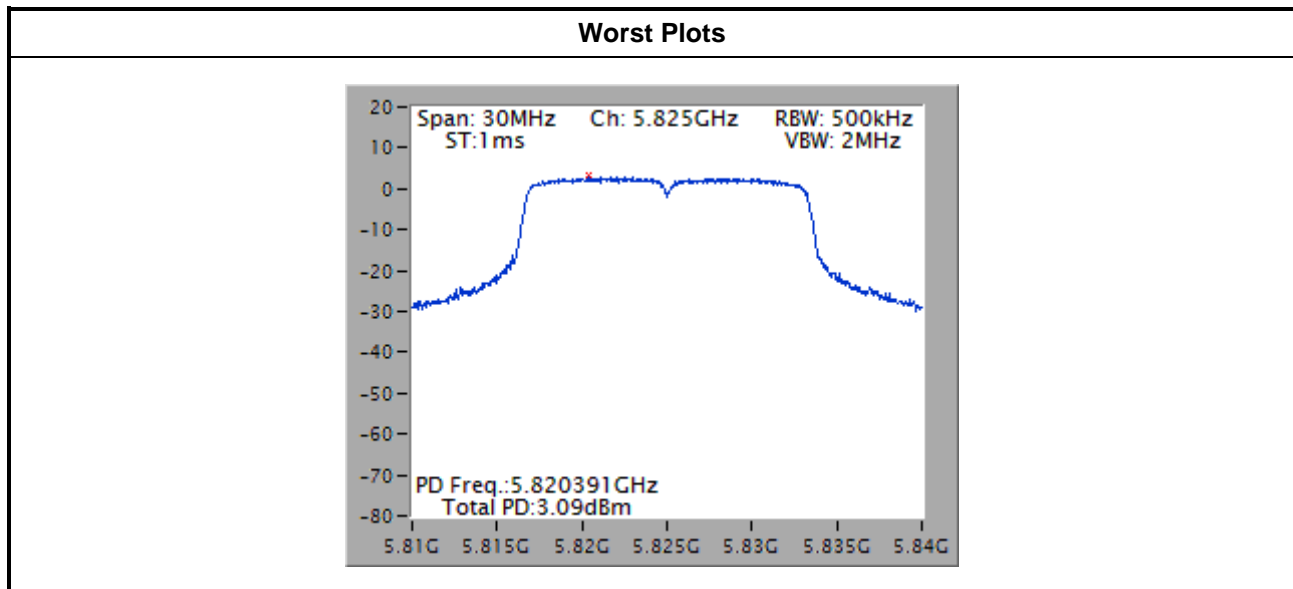
#### 3.4.3 Test Setup



### 3.4.4 Test Result of Peak Power Spectral Density

| Condition       |                 |             | Peak Power Spectral Density (dBm/500kHz) |                         |
|-----------------|-----------------|-------------|--|-------------------------|
| Modulation Mode | N <sub>TX</sub> | Freq. (MHz) | PPSD w/o D.F (dBm/500kHz)                | PPSD Limit (dBm/500kHz) |
| 11a             | 1               | 5745        | 1.26                                     | 30.00                   |
| 11a             | 1               | 5785        | 2.98                                     | 30.00                   |
| 11a             | 1               | 5825        | 3.09                                     | 30.00                   |
| HT20            | 1               | 5745        | 0.28                                     | 30.00                   |
| HT20            | 1               | 5785        | 2.72                                     | 30.00                   |
| HT20            | 1               | 5825        | 2.83                                     | 30.00                   |

**Note:** D.F is duty factor.



### 3.5 Transmitter Radiated and Band Edge Emissions

#### 3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

| 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.

| Un-restricted band emissions above 1GHz Limit |  |
|---|--|
| Operating Band                                | E.I.R.P Limit  |
| 5.15 - 5.25 GHz                               | -27 dBm/MHz [68.2 dBuV/m@3m]   |
| 5.725 - 5.850 GHz                             | 5.715 5.725 GHz: -17 dBm/MHz [78.2 dBuV/m@3m]<br>5.850 5.860 GHz: -17 dBm/MHz [78.2 dBuV/m@3m]<br>Other un-restricted band: -27 dBm/MHz [68.2 dBuV/m@3m] |

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

### 3.5.2 Test Procedures

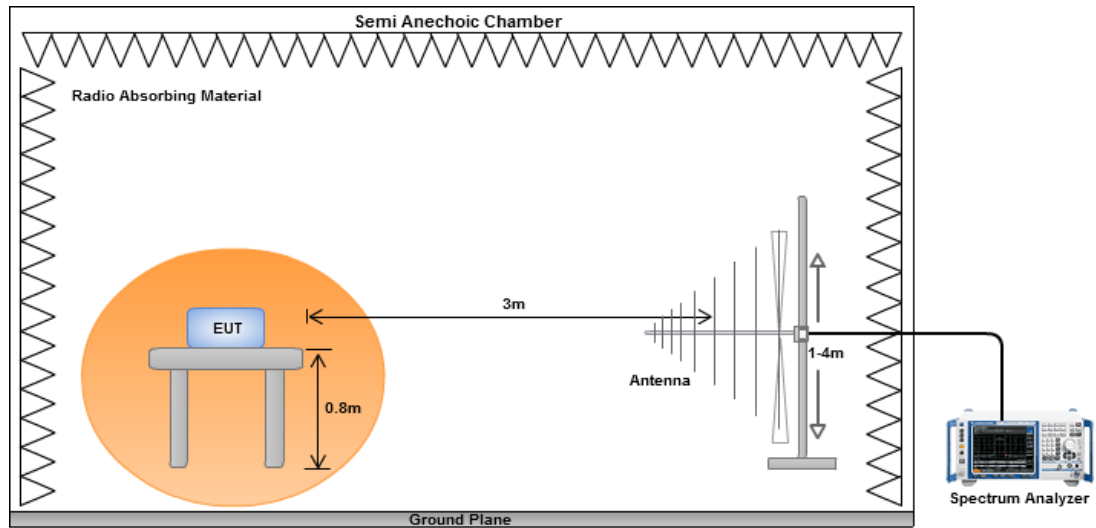
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of  $360^{\circ}$ . A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each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

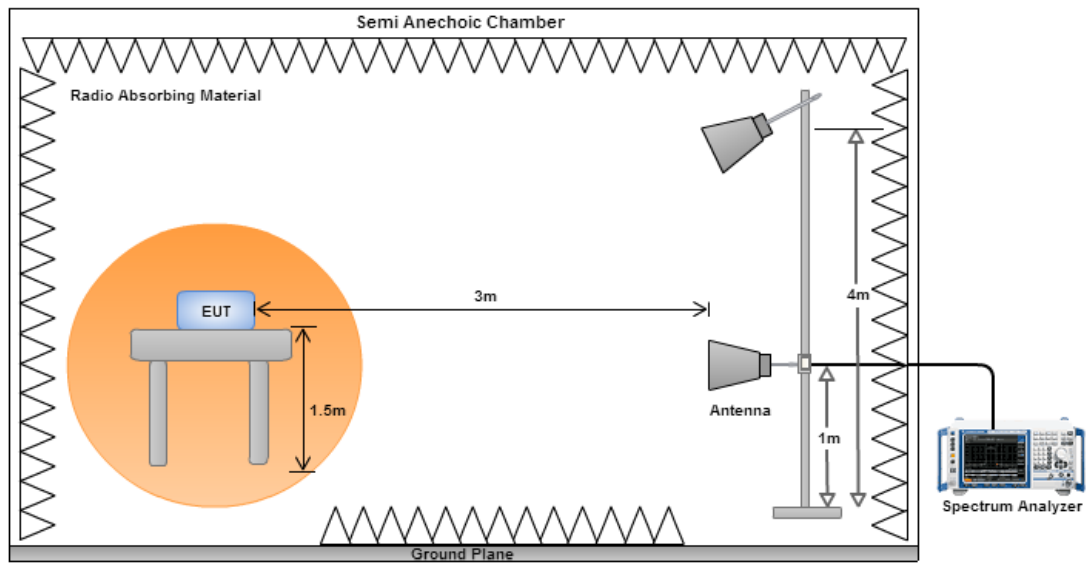
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

### 3.5.3 Test Setup

#### Radiated Emissions below 1 GHz

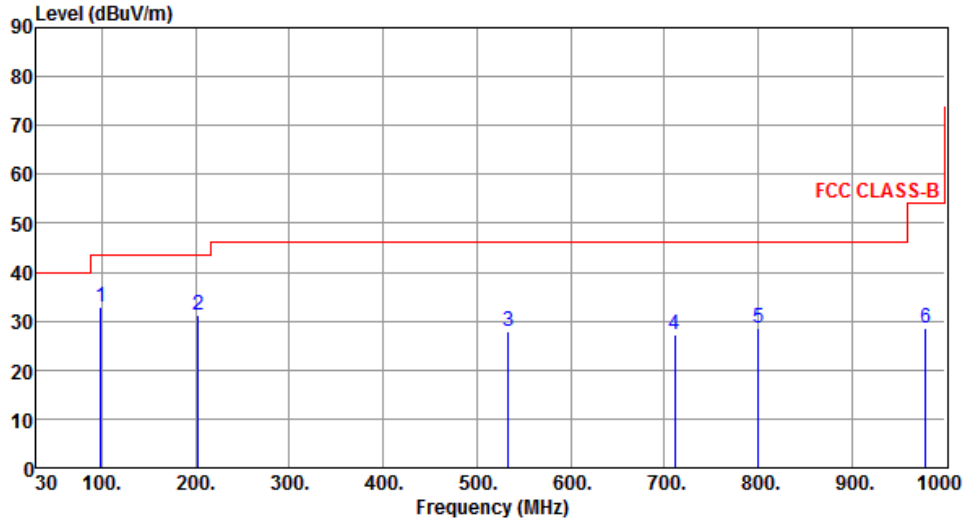


#### Radiated Emissions above 1 GHz



### 3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 1    |

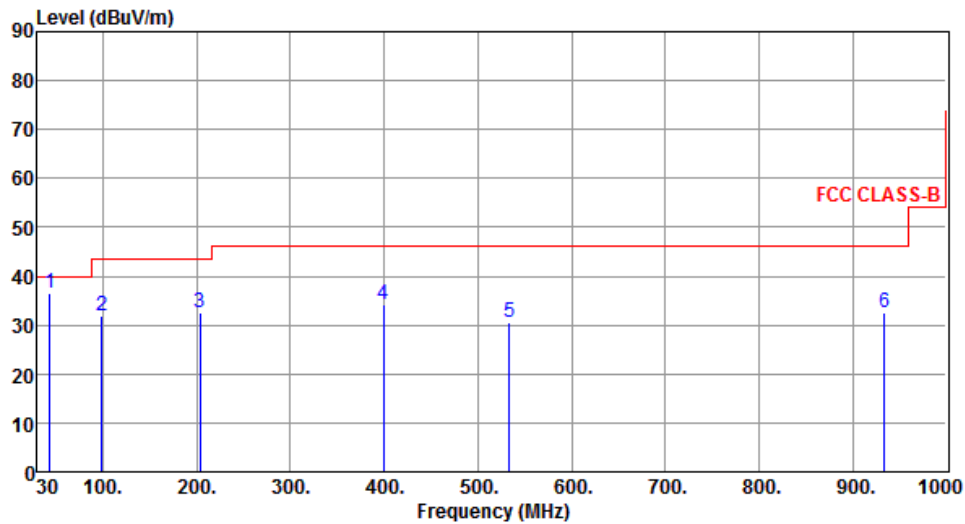
  


The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the Level in dBuV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 to 100 MHz, 45 dBuV/m from 100 to 200 MHz, and 55 dBuV/m from 200 to 1000 MHz. Six measured peaks are shown as blue vertical lines, labeled 1 through 6. The peak levels are approximately 33, 31, 28, 27, 28, and 29 dBuV/m respectively.

|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 98.87        | 32.99                       | 43.50           | -10.51       | 55.06                 | -22.07       | Peak   | ---               | ---                  |
| 2 | 202.66       | 31.27                       | 43.50           | -12.23       | 50.93                 | -19.66       | Peak   | ---               | ---                  |
| 3 | 533.43       | 27.92                       | 46.00           | -18.08       | 38.93                 | -11.01       | Peak   | ---               | ---                  |
| 4 | 710.94       | 27.07                       | 46.00           | -18.93       | 35.10                 | -8.03        | Peak   | ---               | ---                  |
| 5 | 800.18       | 28.48                       | 46.00           | -17.52       | 35.40                 | -6.92        | Peak   | ---               | ---                  |
| 6 | 978.66       | 28.60                       | 54.00           | -25.40       | 33.23                 | -4.63        | 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.

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 1    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 43.58        | 36.56                       | 40.00           | -3.44        | 53.46                 | -16.90       | QP     | ---               | ---                  |
| 2 | 98.87        | 31.76                       | 43.50           | -11.74       | 53.83                 | -22.07       | Peak   | ---               | ---                  |
| 3 | 203.63       | 32.70                       | 43.50           | -10.80       | 52.31                 | -19.61       | Peak   | ---               | ---                  |
| 4 | 399.57       | 34.29                       | 46.00           | -11.71       | 47.96                 | -13.67       | Peak   | ---               | ---                  |
| 5 | 533.43       | 30.64                       | 46.00           | -15.36       | 41.65                 | -11.01       | Peak   | ---               | ---                  |
| 6 | 934.04       | 32.67                       | 46.00           | -13.33       | 37.58                 | -4.91        | Peak   | ---               | ---                  |

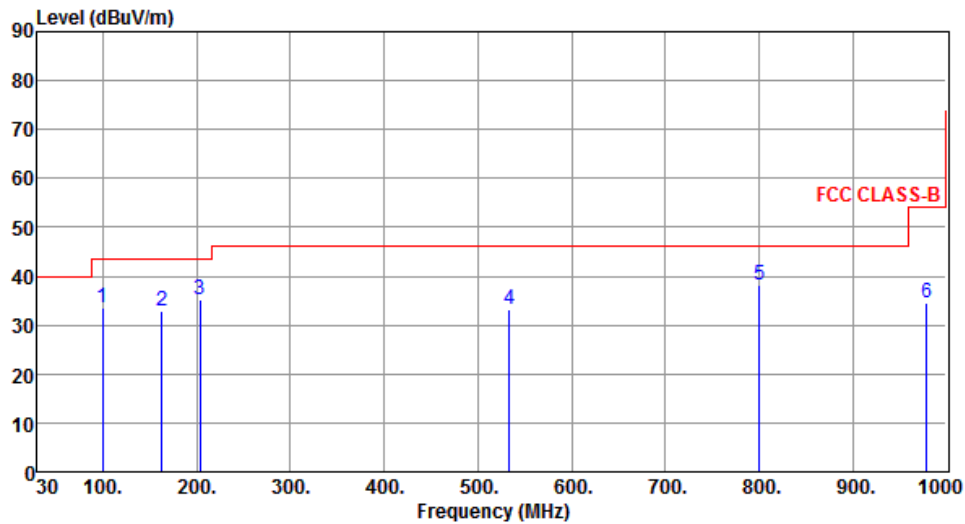
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 2    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 99.84        | 33.57                       | 43.50           | -9.93        | 55.51                 | -21.94       | Peak   | ---               | ---                  |
| 2 | 162.89       | 32.99                       | 43.50           | -10.51       | 50.09                 | -17.10       | Peak   | ---               | ---                  |
| 3 | 203.63       | 35.16                       | 43.50           | -8.34        | 54.77                 | -19.61       | Peak   | ---               | ---                  |
| 4 | 533.43       | 33.28                       | 46.00           | -12.72       | 44.29                 | -11.01       | Peak   | ---               | ---                  |
| 5 | 800.18       | 38.33                       | 46.00           | -7.67        | 45.25                 | -6.92        | Peak   | ---               | ---                  |
| 6 | 978.66       | 34.38                       | 54.00           | -19.62       | 39.01                 | -4.63        | Peak   | ---               | ---                  |

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

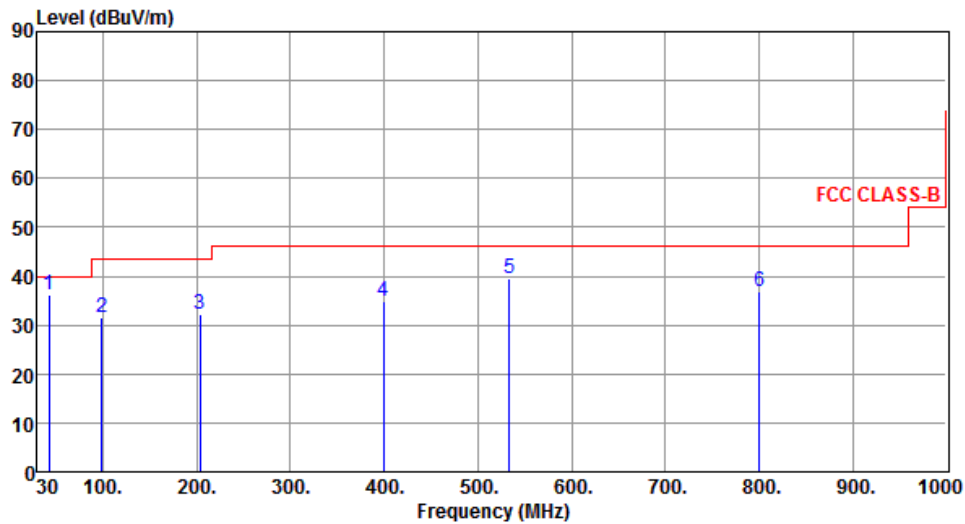
\*Factor includes antenna factor , cable loss and amplifier gain

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.



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 2    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 42.61        | 36.28                       | 40.00           | -3.72        | 53.27                 | -16.99       | QP     | ---               | ---                  |
| 2 | 98.87        | 31.71                       | 43.50           | -11.79       | 53.78                 | -22.07       | Peak   | ---               | ---                  |
| 3 | 203.63       | 32.07                       | 43.50           | -11.43       | 51.68                 | -19.61       | Peak   | ---               | ---                  |
| 4 | 399.57       | 34.75                       | 46.00           | -11.25       | 48.42                 | -13.67       | Peak   | ---               | ---                  |
| 5 | 533.43       | 39.63                       | 46.00           | -6.37        | 50.64                 | -11.01       | Peak   | ---               | ---                  |
| 6 | 800.18       | 36.80                       | 46.00           | -9.20        | 43.72                 | -6.92        | Peak   | ---               | ---                  |

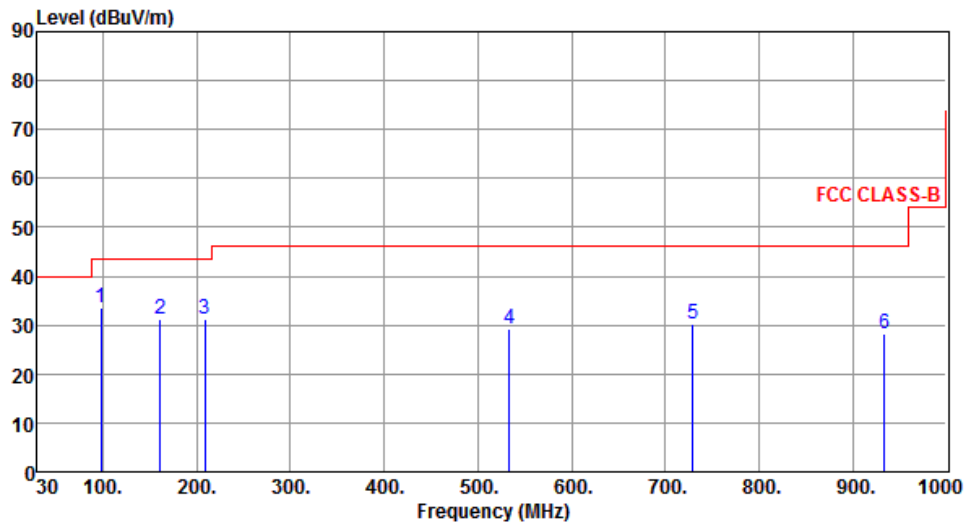
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 3    |



|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 97.90        | 33.53                       | 43.50           | -9.97        | 55.74                 | -22.21       | Peak   | ---               | ---                  |
| 2 | 160.95       | 31.38                       | 43.50           | -12.12       | 48.39                 | -17.01       | Peak   | ---               | ---                  |
| 3 | 208.48       | 31.31                       | 43.50           | -12.19       | 50.76                 | -19.45       | Peak   | ---               | ---                  |
| 4 | 533.43       | 29.35                       | 46.00           | -16.65       | 40.36                 | -11.01       | Peak   | ---               | ---                  |
| 5 | 729.37       | 30.16                       | 46.00           | -15.84       | 37.84                 | -7.68        | Peak   | ---               | ---                  |
| 6 | 934.04       | 28.35                       | 46.00           | -17.65       | 33.26                 | -4.91        | Peak   | ---               | ---                  |

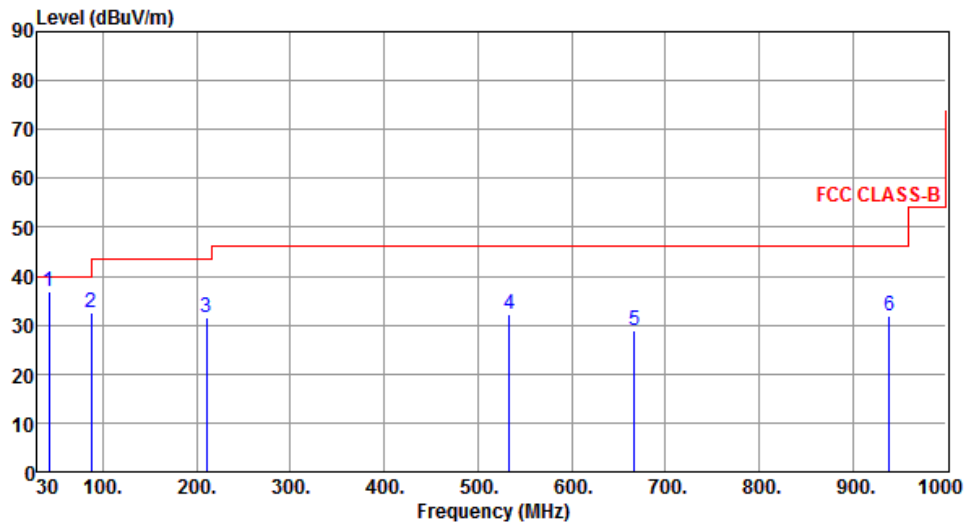
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*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.

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 3    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 42.61        | 36.77                       | 40.00           | -3.23        | 53.76                 | -16.99       | QP     | ---               | ---                  |
| 2 | 87.23        | 32.69                       | 40.00           | -7.31        | 55.60                 | -22.91       | Peak   | ---               | ---                  |
| 3 | 210.42       | 31.41                       | 43.50           | -12.09       | 50.81                 | -19.40       | Peak   | ---               | ---                  |
| 4 | 533.43       | 32.29                       | 46.00           | -13.71       | 43.30                 | -11.01       | Peak   | ---               | ---                  |
| 5 | 667.29       | 28.96                       | 46.00           | -17.04       | 37.72                 | -8.76        | Peak   | ---               | ---                  |
| 6 | 938.89       | 31.95                       | 46.00           | -14.05       | 36.81                 | -4.86        | Peak   | ---               | ---                  |

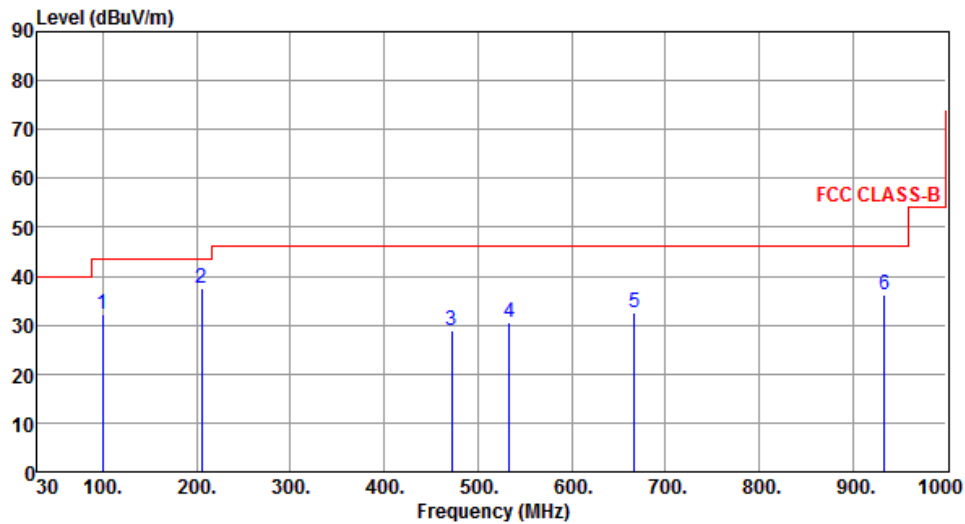
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 4    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 99.84        | 32.32                       | 43.50           | -11.18       | 54.26                 | -21.94       | Peak   | ---               | ---                  |
| 2 | 205.57       | 37.47                       | 43.50           | -6.03        | 57.02                 | -19.55       | Peak   | ---               | ---                  |
| 3 | 472.32       | 28.89                       | 46.00           | -17.11       | 41.05                 | -12.16       | Peak   | ---               | ---                  |
| 4 | 533.43       | 30.67                       | 46.00           | -15.33       | 41.68                 | -11.01       | Peak   | ---               | ---                  |
| 5 | 667.29       | 32.52                       | 46.00           | -13.48       | 41.28                 | -8.76        | Peak   | ---               | ---                  |
| 6 | 934.04       | 36.33                       | 46.00           | -9.67        | 41.24                 | -4.91        | Peak   | ---               | ---                  |

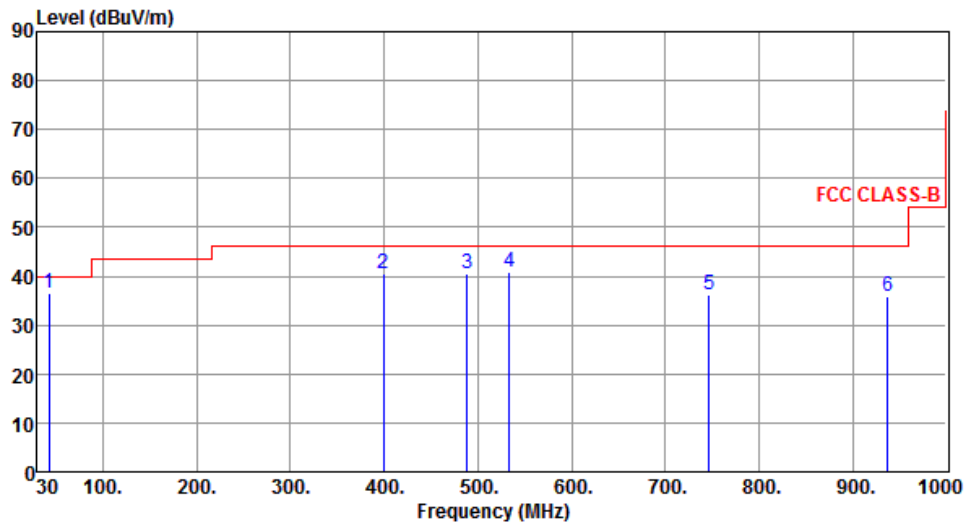
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 4    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 42.61        | 36.67                       | 40.00           | -3.33        | 53.66                 | -16.99       | QP     | ---               | ---                  |
| 2 | 399.57       | 40.38                       | 46.00           | -5.62        | 54.05                 | -13.67       | Peak   | ---               | ---                  |
| 3 | 488.81       | 40.68                       | 46.00           | -5.32        | 52.58                 | -11.90       | Peak   | ---               | ---                  |
| 4 | 533.43       | 40.97                       | 46.00           | -5.03        | 51.98                 | -11.01       | Peak   | ---               | ---                  |
| 5 | 746.83       | 36.17                       | 46.00           | -9.83        | 43.52                 | -7.35        | Peak   | ---               | ---                  |
| 6 | 936.95       | 35.95                       | 46.00           | -10.05       | 40.83                 | -4.88        | Peak   | ---               | ---                  |

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

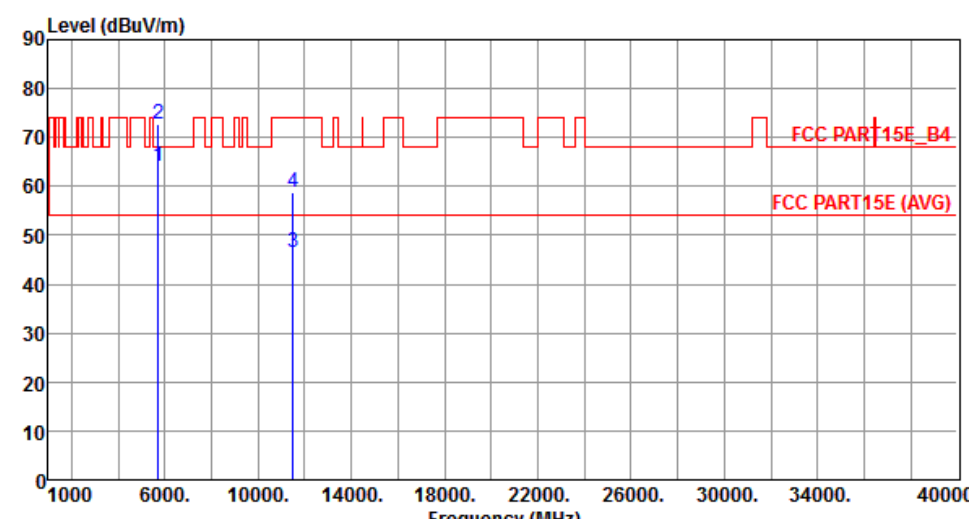
\*Factor includes antenna factor , cable loss and amplifier gain

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.

### 3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

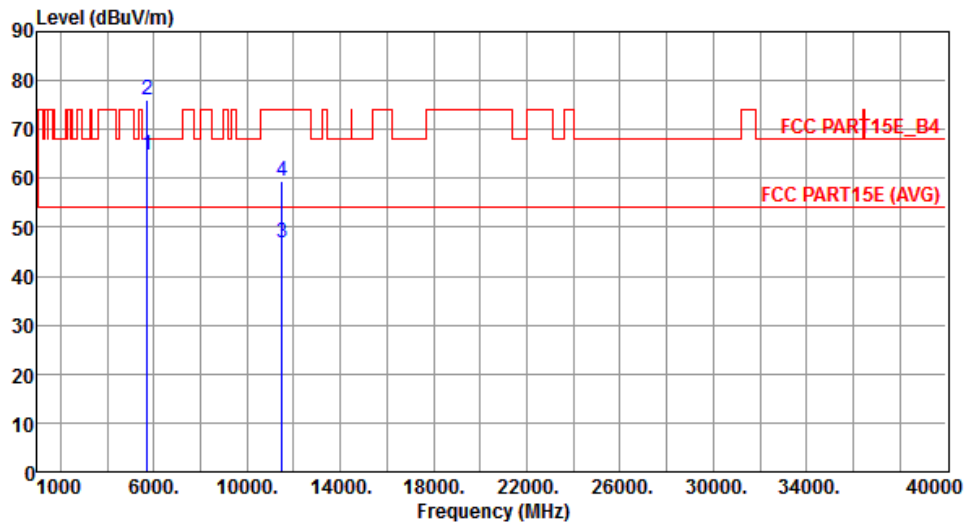
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 63.97                       | 68.20           | -4.23        | 57.27                 | 6.70         | Peak    | 228               | 48                   |
| 2 | 5725.00      | 72.64                       | 78.20           | -5.56        | 65.93                 | 6.71         | Peak    | 228               | 48                   |
| 3 | 11490.00     | 46.37                       | 54.00           | -7.63        | 30.15                 | 16.22        | Average | 120               | 326                  |
| 4 | 11490.00     | 58.62                       | 74.00           | -15.38       | 42.40                 | 16.22        | Peak    | 120               | 326                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 1    |



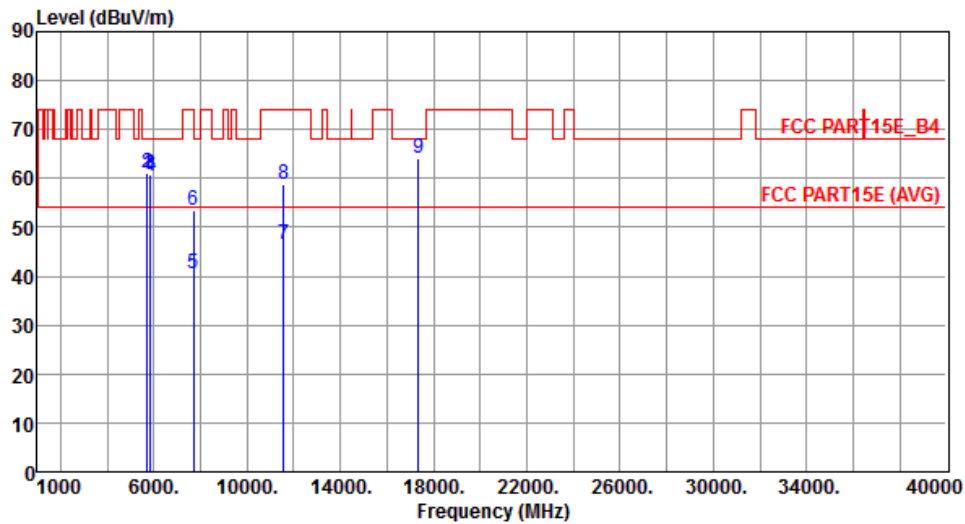
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 64.91                       | 68.20           | -3.29        | 58.21                 | 6.70         | Peak    | 387               | 17                   |
| 2 | 5725.00      | 76.14                       | 78.20           | -2.06        | 69.43                 | 6.71         | Peak    | 387               | 17                   |
| 3 | 11490.00     | 46.82                       | 54.00           | -7.18        | 30.60                 | 16.22        | Average | 248               | 152                  |
| 4 | 11490.00     | 59.54                       | 74.00           | -14.46       | 43.32                 | 16.22        | Peak    | 248               | 152                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 1    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 60.81                       | 68.20           | -7.39        | 54.11                 | 6.70         | Peak    | 223               | 47                   |
| 2 | 5725.00      | 61.15                       | 78.20           | -17.05       | 54.44                 | 6.71         | Peak    | 223               | 47                   |
| 3 | 5850.00      | 60.67                       | 78.20           | -17.53       | 53.72                 | 6.95         | Peak    | 223               | 47                   |
| 4 | 5860.00      | 60.51                       | 68.20           | -7.69        | 53.56                 | 6.95         | Peak    | 223               | 47                   |
| 5 | 7713.30      | 40.51                       | 54.00           | -13.49       | 29.75                 | 10.76        | Average | 100               | 51                   |
| 6 | 7713.30      | 53.44                       | 74.00           | -20.56       | 42.68                 | 10.76        | Peak    | 100               | 51                   |
| 7 | 11570.00     | 46.49                       | 54.00           | -7.51        | 30.37                 | 16.12        | Average | 126               | 329                  |
| 8 | 11570.00     | 58.78                       | 74.00           | -15.22       | 42.66                 | 16.12        | Peak    | 126               | 329                  |
| 9 | 17355.00     | 64.09                       | 68.20           | -4.11        | 42.46                 | 21.63        | Peak    | 217               | 30                   |

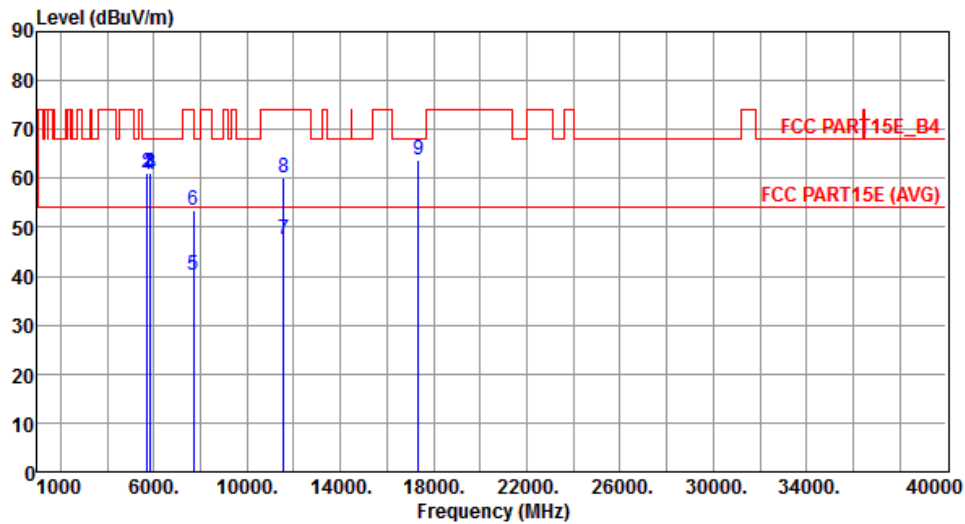
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

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



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 1    |



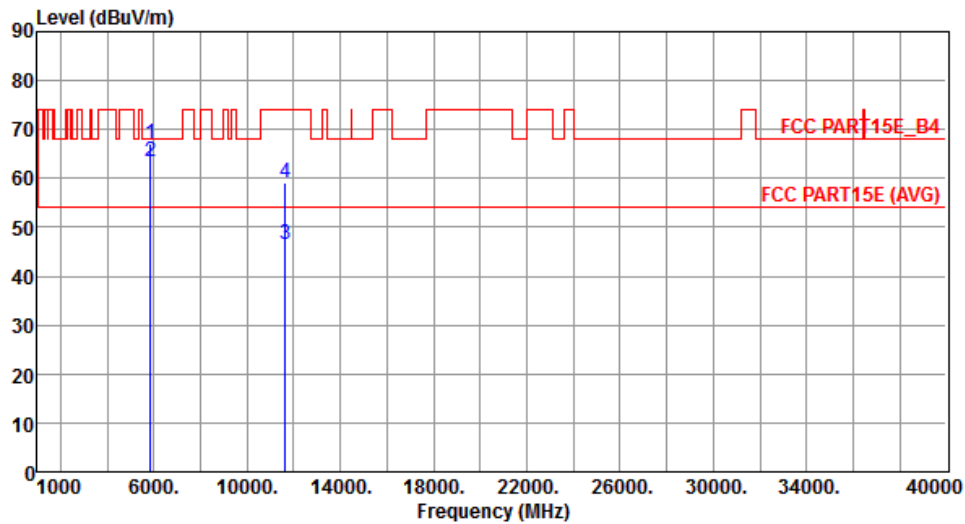
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 60.72                       | 68.20           | -7.48        | 54.02                 | 6.70         | Peak    | 400               | 25                   |
| 2 | 5725.00      | 61.18                       | 78.20           | -17.02       | 54.47                 | 6.71         | Peak    | 400               | 25                   |
| 3 | 5850.00      | 61.25                       | 78.20           | -16.95       | 54.30                 | 6.95         | Peak    | 400               | 25                   |
| 4 | 5860.00      | 60.89                       | 68.20           | -7.31        | 53.94                 | 6.95         | Peak    | 400               | 25                   |
| 5 | 7713.30      | 40.35                       | 54.00           | -13.65       | 29.59                 | 10.76        | Average | 173               | 319                  |
| 6 | 7713.30      | 53.61                       | 74.00           | -20.39       | 42.85                 | 10.76        | Peak    | 173               | 319                  |
| 7 | 11570.00     | 47.37                       | 54.00           | -6.63        | 31.25                 | 16.12        | Average | 252               | 163                  |
| 8 | 11570.00     | 60.01                       | 74.00           | -13.99       | 43.89                 | 16.12        | Peak    | 252               | 163                  |
| 9 | 17355.00     | 63.76                       | 68.20           | -4.44        | 42.13                 | 21.63        | Peak    | 182               | 34                   |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 1    |



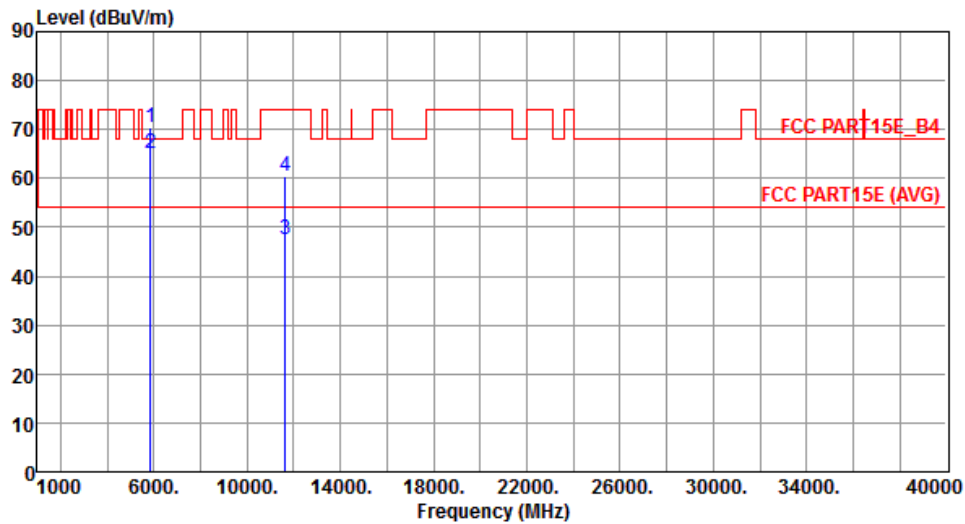
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 67.21                       | 78.20           | -10.99       | 60.26                 | 6.95         | Peak    | 234               | 47                   |
| 2 | 5860.00      | 63.49                       | 68.20           | -4.71        | 56.54                 | 6.95         | Peak    | 234               | 47                   |
| 3 | 11650.00     | 46.62                       | 54.00           | -7.38        | 30.60                 | 16.02        | Average | 135               | 330                  |
| 4 | 11650.00     | 59.02                       | 74.00           | -14.98       | 43.00                 | 16.02        | Peak    | 135               | 330                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 1    |



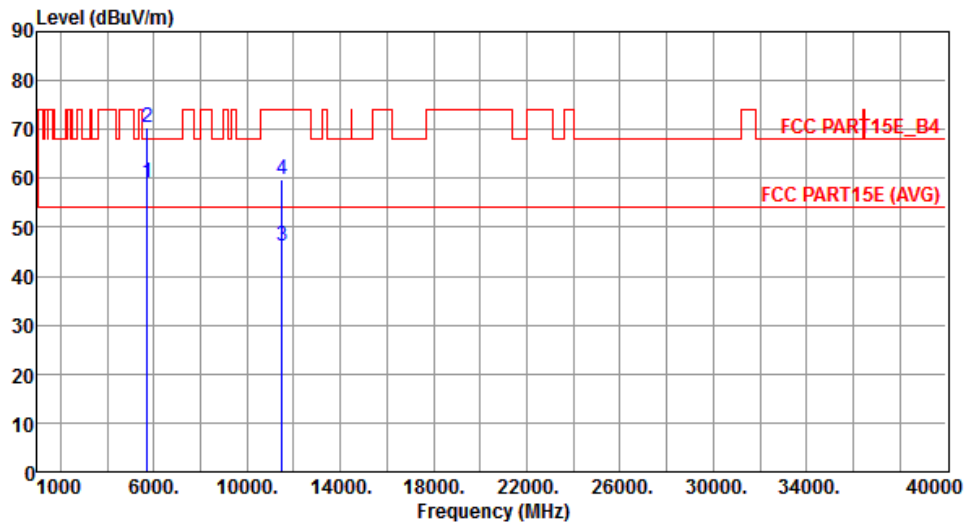
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 70.37                       | 78.20           | -7.83        | 63.42                 | 6.95         | Peak    | 310               | 285                  |
| 2 | 5860.00      | 65.06                       | 68.20           | -3.14        | 58.11                 | 6.95         | Peak    | 310               | 285                  |
| 3 | 11650.00     | 47.44                       | 54.00           | -6.56        | 31.42                 | 16.02        | Average | 259               | 166                  |
| 4 | 11650.00     | 60.37                       | 74.00           | -13.63       | 44.35                 | 16.02        | Peak    | 259               | 166                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 2    |



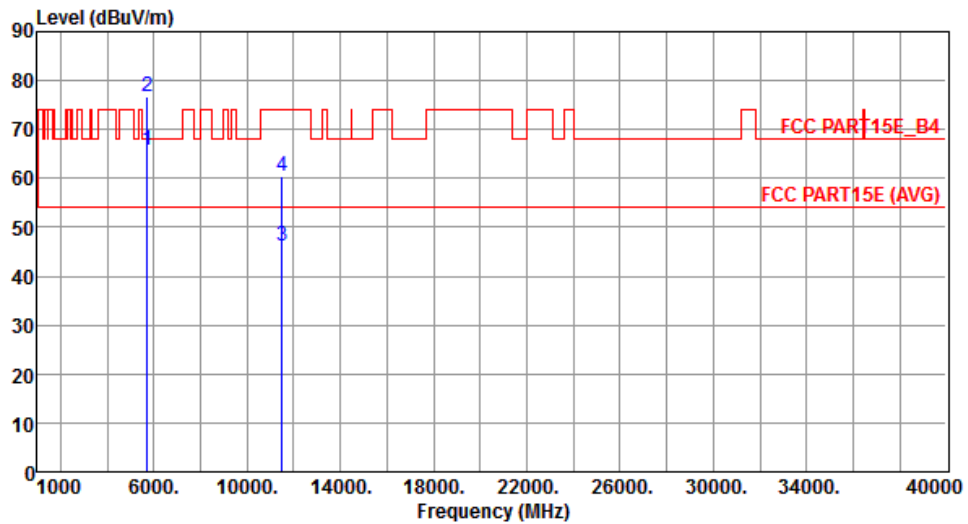
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 59.12                       | 68.20           | -9.08        | 52.42                 | 6.70         | Peak    | 100               | 199                  |
| 2 | 5725.00      | 70.30                       | 78.20           | -7.90        | 63.59                 | 6.71         | Peak    | 100               | 199                  |
| 3 | 11490.00     | 46.05                       | 54.00           | -7.95        | 29.83                 | 16.22        | Average | 150               | 316                  |
| 4 | 11490.00     | 59.85                       | 74.00           | -14.15       | 43.63                 | 16.22        | Peak    | 150               | 316                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 2    |



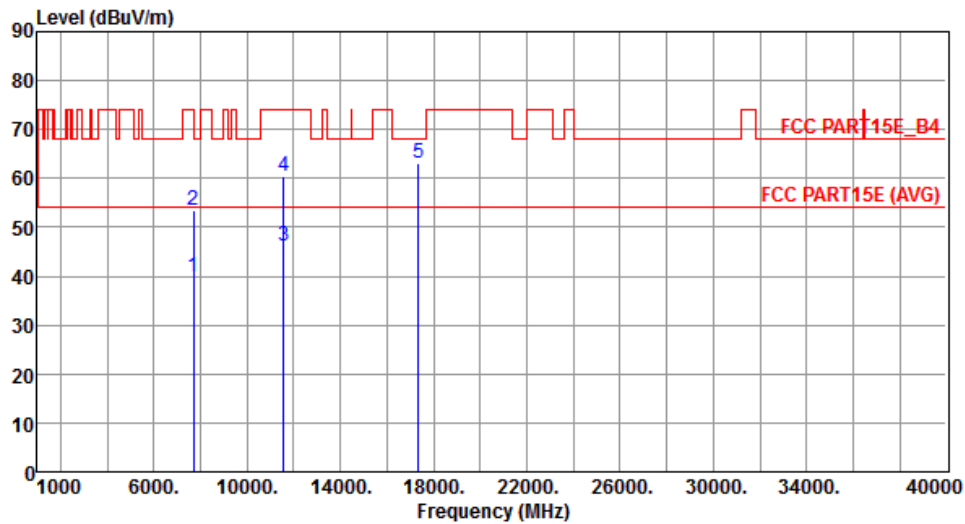
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 65.63                       | 68.20           | -2.57        | 58.93                 | 6.70         | Peak    | 117               | 21                   |
| 2 | 5725.00      | 76.63                       | 78.20           | -1.57        | 69.92                 | 6.71         | Peak    | 117               | 21                   |
| 3 | 11490.00     | 46.33                       | 54.00           | -7.67        | 30.11                 | 16.22        | Average | 243               | 165                  |
| 4 | 11490.00     | 60.48                       | 74.00           | -13.52       | 44.26                 | 16.22        | Peak    | 243               | 165                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 2    |



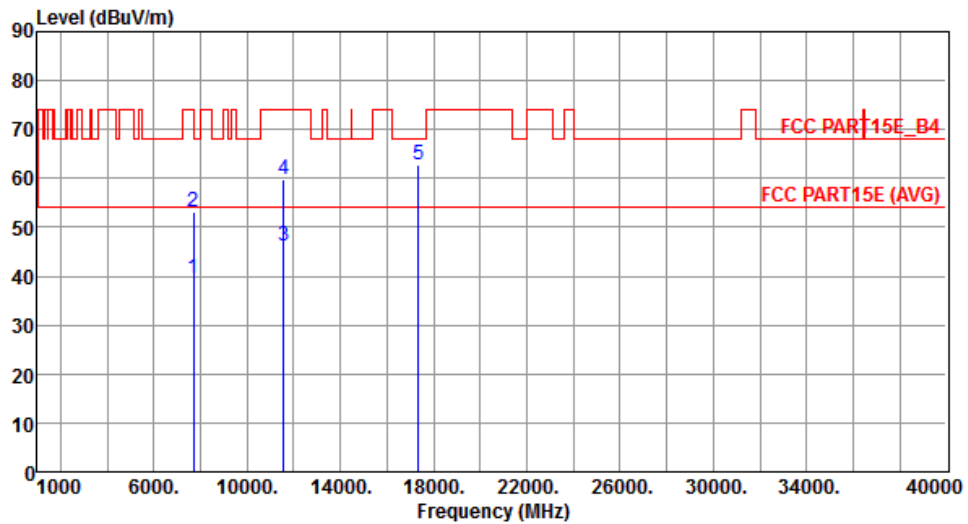
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 7713.00      | 39.72                       | 54.00           | -14.28       | 28.96                 | 10.76        | Average | 150               | 137                  |
| 2 | 7713.00      | 53.45                       | 74.00           | -20.55       | 42.69                 | 10.76        | Peak    | 150               | 137                  |
| 3 | 11570.00     | 46.28                       | 54.00           | -7.72        | 30.16                 | 16.12        | Average | 259               | 176                  |
| 4 | 11570.00     | 60.46                       | 74.00           | -13.54       | 44.34                 | 16.12        | Peak    | 259               | 176                  |
| 5 | 17355.00     | 63.03                       | 68.20           | -5.17        | 41.40                 | 21.63        | Peak    | 100               | 166                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 2    |



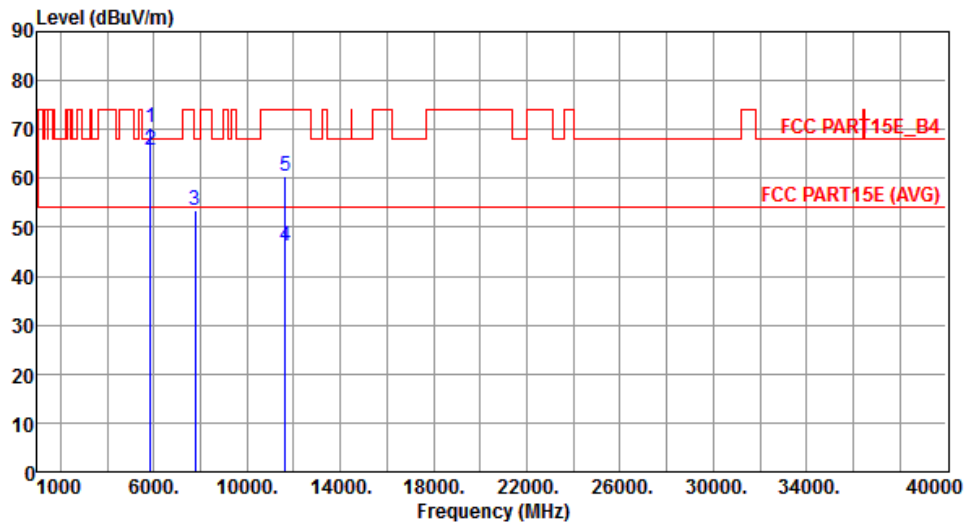
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 7713.00      | 39.62                       | 54.00           | -14.38       | 28.86                 | 10.76        | Average | 150               | 111                  |
| 2 | 7713.00      | 52.98                       | 74.00           | -21.02       | 42.22                 | 10.76        | Peak    | 150               | 111                  |
| 3 | 11570.00     | 46.11                       | 54.00           | -7.89        | 29.99                 | 16.12        | Average | 150               | 329                  |
| 4 | 11570.00     | 59.62                       | 74.00           | -14.38       | 43.50                 | 16.12        | Peak    | 150               | 329                  |
| 5 | 17355.00     | 62.86                       | 68.20           | -5.34        | 41.23                 | 21.63        | Peak    | 100               | 129                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 2    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 70.34                       | 78.20           | -7.86        | 63.39                 | 6.95         | Peak    | 105               | 26                   |
| 2 | 5860.00      | 65.71                       | 68.20           | -2.49        | 58.76                 | 6.95         | Peak    | 110               | 32                   |
| 3 | 7766.60      | 53.39                       | 68.20           | -14.81       | 42.55                 | 10.84        | Peak    | 111               | 163                  |
| 4 | 11650.00     | 46.18                       | 54.00           | -7.82        | 30.16                 | 16.02        | Average | 255               | 163                  |
| 5 | 11650.00     | 60.31                       | 74.00           | -13.69       | 44.29                 | 16.02        | Peak    | 255               | 163                  |

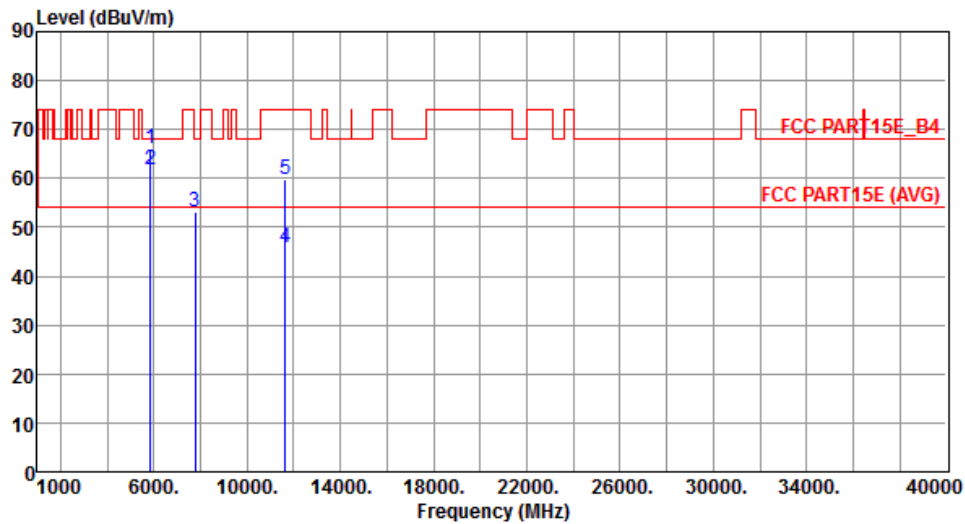
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

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



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 2    |



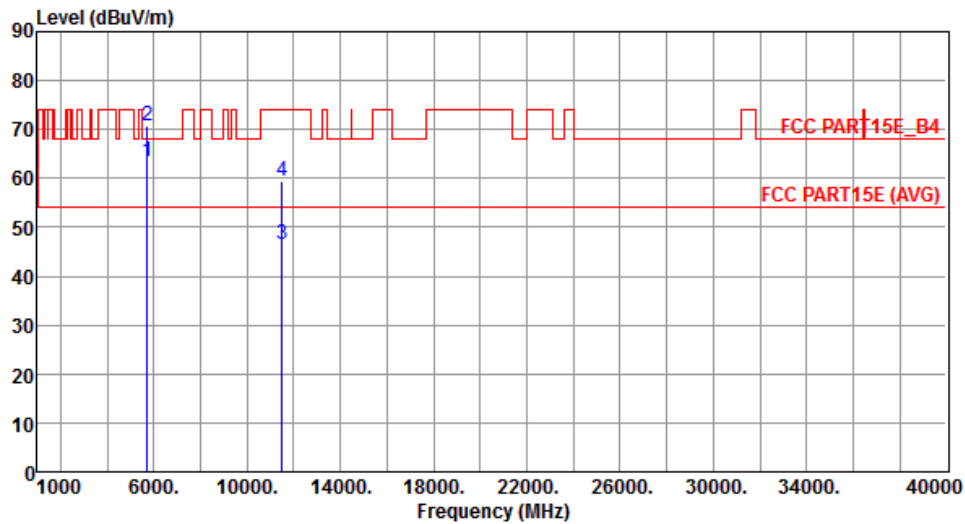
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 66.14                       | 78.20           | -12.06       | 59.19                 | 6.95         | Peak    | 100               | 206                  |
| 2 | 5860.00      | 61.70                       | 68.20           | -6.50        | 54.75                 | 6.95         | Peak    | 100               | 209                  |
| 3 | 7766.60      | 53.21                       | 68.20           | -14.99       | 42.37                 | 10.84        | Peak    | 100               | 116                  |
| 4 | 11650.00     | 45.90                       | 54.00           | -8.10        | 29.88                 | 16.02        | Average | 155               | 321                  |
| 5 | 11650.00     | 59.89                       | 74.00           | -14.11       | 43.87                 | 16.02        | Peak    | 155               | 321                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 3    |



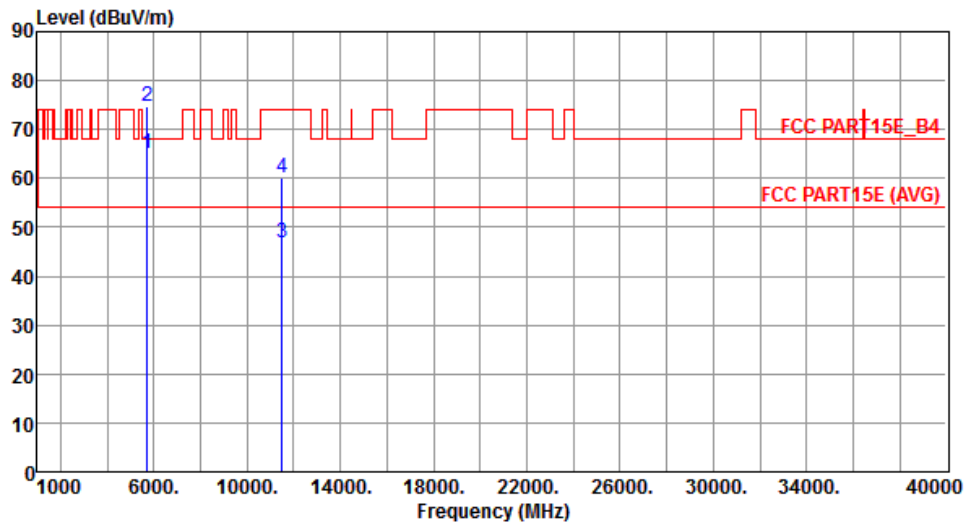
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 63.59                       | 68.20           | -4.61        | 56.89                 | 6.70         | Peak    | 100               | 6                    |
| 2 | 5725.00      | 70.84                       | 78.20           | -7.36        | 64.13                 | 6.71         | Peak    | 100               | 6                    |
| 3 | 11490.00     | 46.35                       | 54.00           | -7.65        | 30.13                 | 16.22        | Average | 166               | 4                    |
| 4 | 11490.00     | 59.55                       | 74.00           | -14.45       | 43.33                 | 16.22        | Peak    | 166               | 4                    |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 3    |



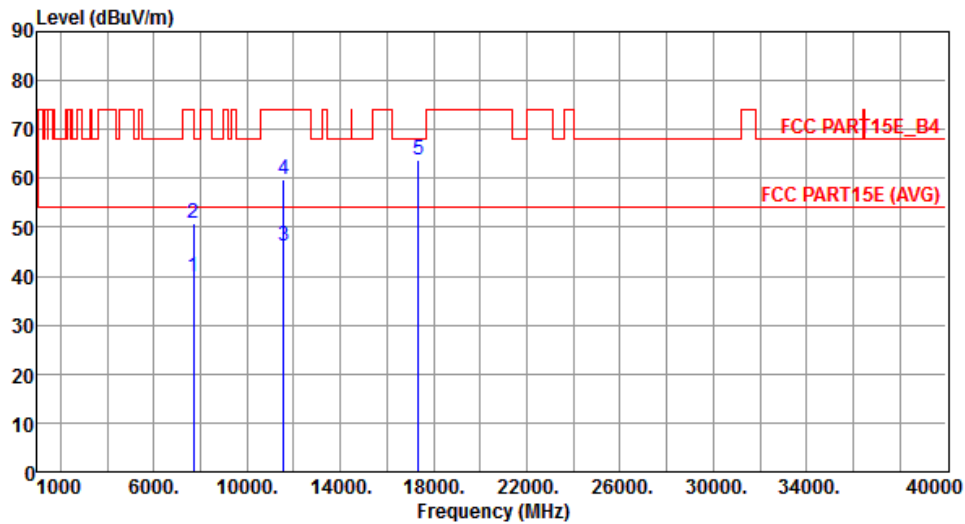
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 64.99                       | 68.20           | -3.21        | 58.29                 | 6.70         | Peak    | 136               | 247                  |
| 2 | 5725.00      | 74.89                       | 78.20           | -3.31        | 68.18                 | 6.71         | Peak    | 136               | 247                  |
| 3 | 11490.00     | 46.79                       | 54.00           | -7.21        | 30.57                 | 16.22        | Average | 288               | 158                  |
| 4 | 11490.00     | 60.22                       | 74.00           | -13.78       | 44.00                 | 16.22        | Peak    | 288               | 158                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 3    |



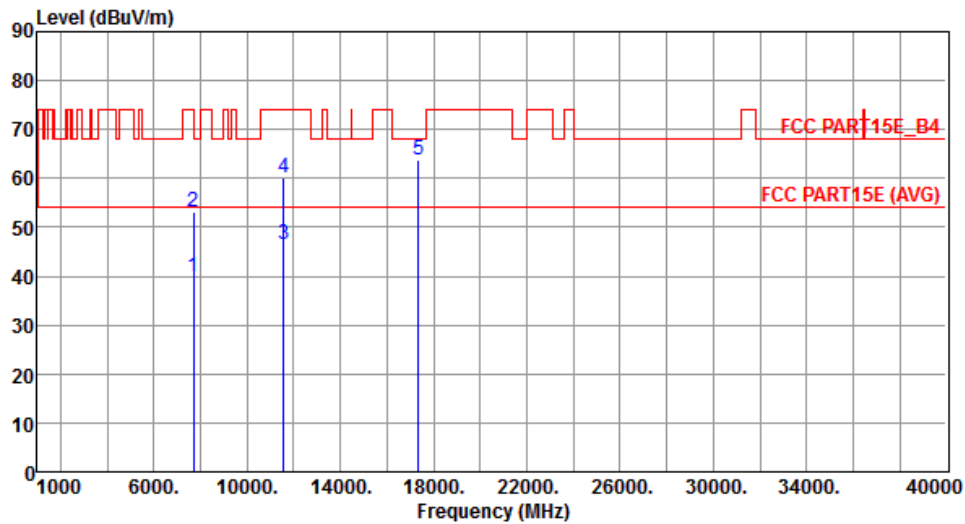
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 7713.00      | 39.87                       | 54.00           | -14.13       | 29.11                 | 10.76        | Average | 100               | 111                  |
| 2 | 7713.00      | 50.94                       | 74.00           | -23.06       | 40.18                 | 10.76        | Peak    | 100               | 111                  |
| 3 | 11570.00     | 46.23                       | 54.00           | -7.77        | 30.11                 | 16.12        | Average | 162               | 5                    |
| 4 | 11570.00     | 59.64                       | 74.00           | -14.36       | 43.52                 | 16.12        | Peak    | 162               | 5                    |
| 5 | 17355.00     | 63.90                       | 68.20           | -4.30        | 42.27                 | 21.63        | Peak    | 123               | 166                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 3    |



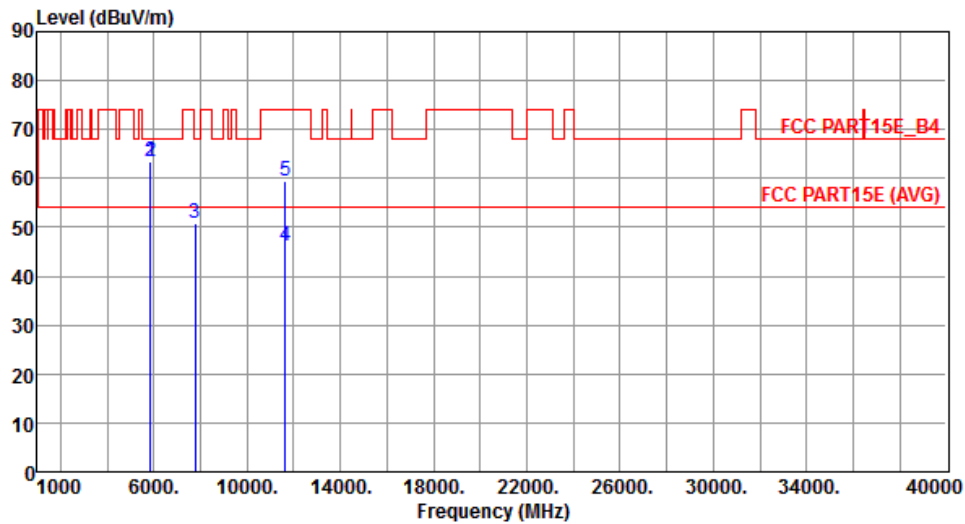
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 7713.00      | 39.89                       | 54.00           | -14.11       | 29.13                 | 10.76        | Average | 100               | 160                  |
| 2 | 7713.00      | 53.15                       | 74.00           | -20.85       | 42.39                 | 10.76        | Peak    | 100               | 160                  |
| 3 | 11570.00     | 46.63                       | 54.00           | -7.37        | 30.51                 | 16.12        | Average | 289               | 160                  |
| 4 | 11570.00     | 60.19                       | 74.00           | -13.81       | 44.07                 | 16.12        | Peak    | 289               | 160                  |
| 5 | 17355.00     | 63.80                       | 68.20           | -4.40        | 42.17                 | 21.63        | Peak    | 100               | 162                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 3    |



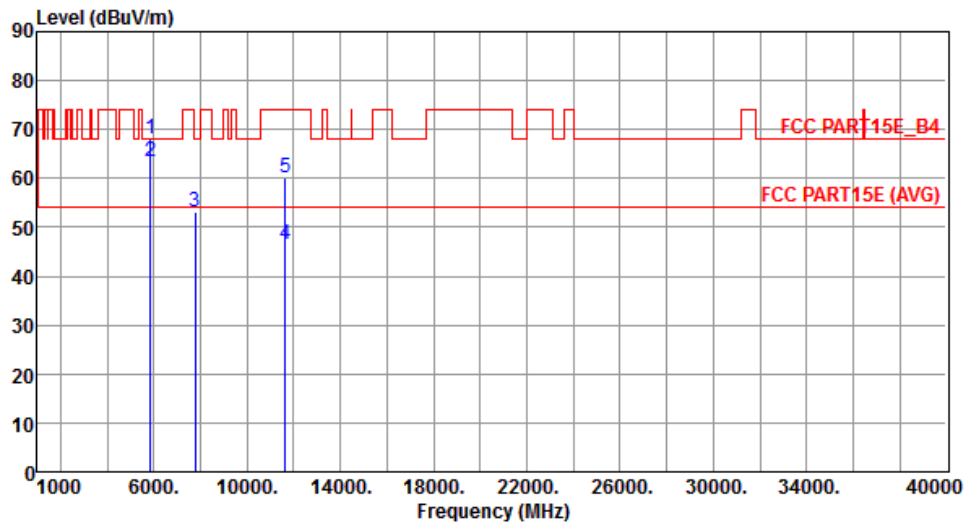
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 63.42                       | 78.20           | -14.78       | 56.47                 | 6.95         | Peak    | 100               | 3                    |
| 2 | 5860.00      | 63.44                       | 68.20           | -4.76        | 56.49                 | 6.95         | Peak    | 100               | 3                    |
| 3 | 7766.60      | 50.91                       | 68.20           | -17.29       | 40.07                 | 10.84        | Peak    | 100               | 116                  |
| 4 | 11650.00     | 46.16                       | 54.00           | -7.84        | 30.14                 | 16.02        | Average | 162               | 3                    |
| 5 | 11650.00     | 59.55                       | 74.00           | -14.45       | 43.53                 | 16.02        | Peak    | 162               | 3                    |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 3    |



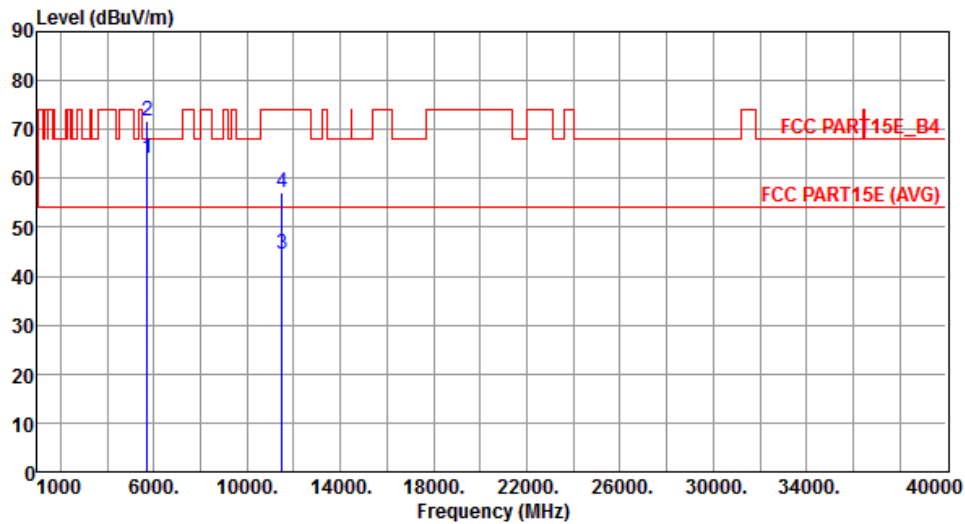
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 68.20                       | 78.20           | -10.00       | 61.25                 | 6.95         | Peak    | 100               | 3                    |
| 2 | 5860.00      | 63.32                       | 68.20           | -4.88        | 56.37                 | 6.95         | Peak    | 100               | 3                    |
| 3 | 7766.60      | 53.26                       | 68.20           | -14.94       | 42.42                 | 10.84        | Peak    | 100               | 165                  |
| 4 | 11650.00     | 46.66                       | 54.00           | -7.34        | 30.64                 | 16.02        | Average | 289               | 166                  |
| 5 | 11650.00     | 60.22                       | 74.00           | -13.78       | 44.20                 | 16.02        | Peak    | 289               | 166                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 4    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 64.03                       | 68.20           | -4.17        | 57.33                 | 6.70         | Peak    | 131               | 244                  |
| 2 | 5725.00      | 71.68                       | 78.20           | -6.52        | 64.97                 | 6.71         | Peak    | 131               | 244                  |
| 3 | 11490.00     | 44.57                       | 54.00           | -9.43        | 28.35                 | 16.22        | Average | 159               | 112                  |
| 4 | 11490.00     | 57.19                       | 74.00           | -16.81       | 40.97                 | 16.22        | Peak    | 159               | 112                  |

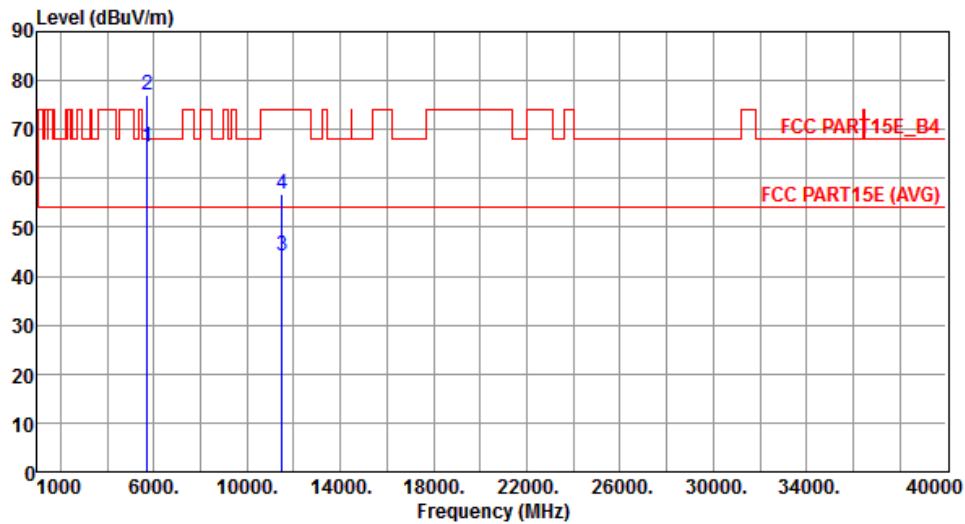
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

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



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 4    |



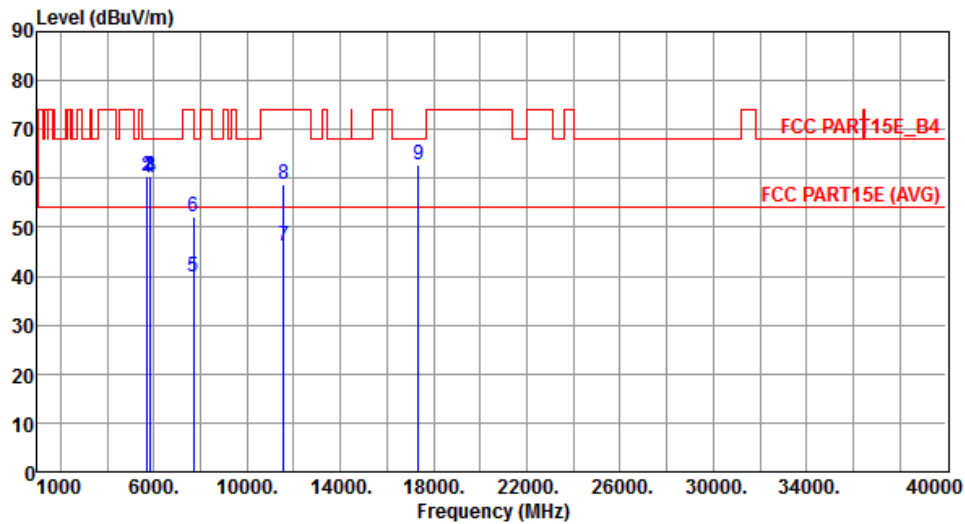
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 66.46                       | 68.20           | -1.74        | 59.76                 | 6.70         | Peak    | 229               | 179                  |
| 2 | 5725.00      | 77.07                       | 78.20           | -1.13        | 70.36                 | 6.71         | Peak    | 229               | 179                  |
| 3 | 11490.00     | 44.06                       | 54.00           | -9.94        | 27.84                 | 16.22        | Average | 258               | 133                  |
| 4 | 11490.00     | 56.75                       | 74.00           | -17.25       | 40.53                 | 16.22        | Peak    | 258               | 133                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 4    |



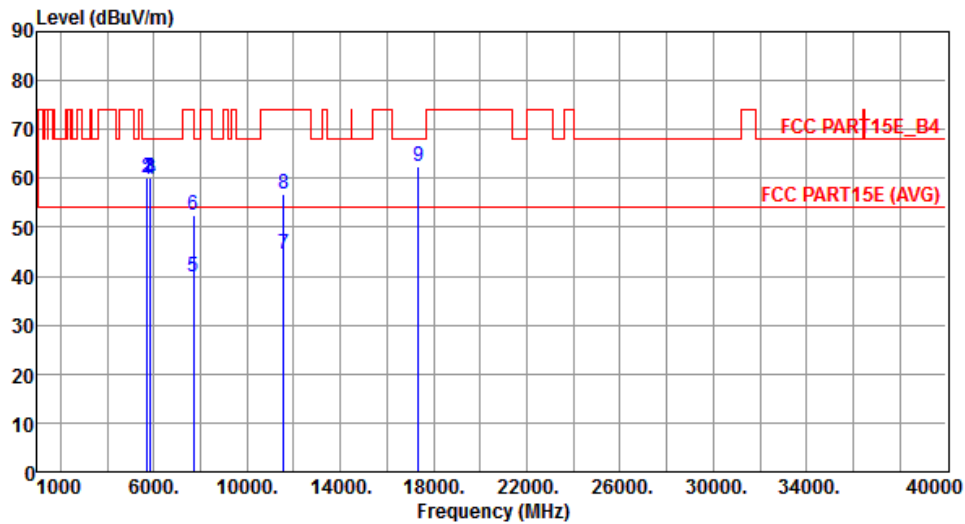
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 60.02                       | 68.20           | -8.18        | 53.32                 | 6.70         | Peak    | 138               | 229                  |
| 2 | 5725.00      | 60.44                       | 78.20           | -17.76       | 53.73                 | 6.71         | Peak    | 138               | 229                  |
| 3 | 5850.00      | 60.40                       | 78.20           | -17.80       | 53.45                 | 6.95         | Peak    | 138               | 229                  |
| 4 | 5860.00      | 60.07                       | 68.20           | -8.13        | 53.12                 | 6.95         | Peak    | 138               | 229                  |
| 5 | 7713.30      | 39.71                       | 54.00           | -14.29       | 28.95                 | 10.76        | Average | 173               | 308                  |
| 6 | 7713.30      | 52.06                       | 74.00           | -21.94       | 41.30                 | 10.76        | Peak    | 173               | 308                  |
| 7 | 11570.00     | 46.04                       | 54.00           | -7.96        | 29.92                 | 16.12        | Average | 150               | 112                  |
| 8 | 11570.00     | 58.81                       | 74.00           | -15.19       | 42.69                 | 16.12        | Peak    | 150               | 112                  |
| 9 | 17355.00     | 62.66                       | 68.20           | -5.54        | 41.03                 | 21.63        | Peak    | 255               | 76                   |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 4    |



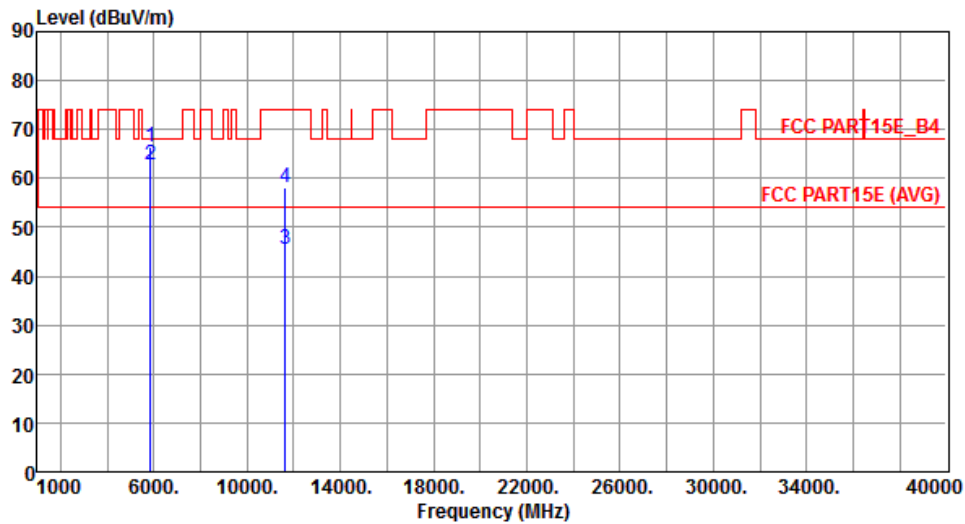
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 59.72                       | 68.20           | -8.48        | 53.02                 | 6.70         | Peak    | 221               | 202                  |
| 2 | 5725.00      | 60.20                       | 78.20           | -18.00       | 53.49                 | 6.71         | Peak    | 221               | 202                  |
| 3 | 5850.00      | 60.03                       | 78.20           | -18.17       | 53.08                 | 6.95         | Peak    | 221               | 202                  |
| 4 | 5860.00      | 59.94                       | 68.20           | -8.26        | 52.99                 | 6.95         | Peak    | 221               | 202                  |
| 5 | 7713.30      | 39.72                       | 54.00           | -14.28       | 28.96                 | 10.76        | Average | 219               | 48                   |
| 6 | 7713.30      | 52.31                       | 74.00           | -21.69       | 41.55                 | 10.76        | Peak    | 219               | 48                   |
| 7 | 11570.00     | 44.41                       | 54.00           | -9.59        | 28.29                 | 16.12        | Average | 266               | 123                  |
| 8 | 11570.00     | 56.92                       | 74.00           | -17.08       | 40.80                 | 16.12        | Peak    | 266               | 123                  |
| 9 | 17355.00     | 62.56                       | 68.20           | -5.64        | 40.93                 | 21.63        | Peak    | 324               | 303                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | 11a        | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 4    |



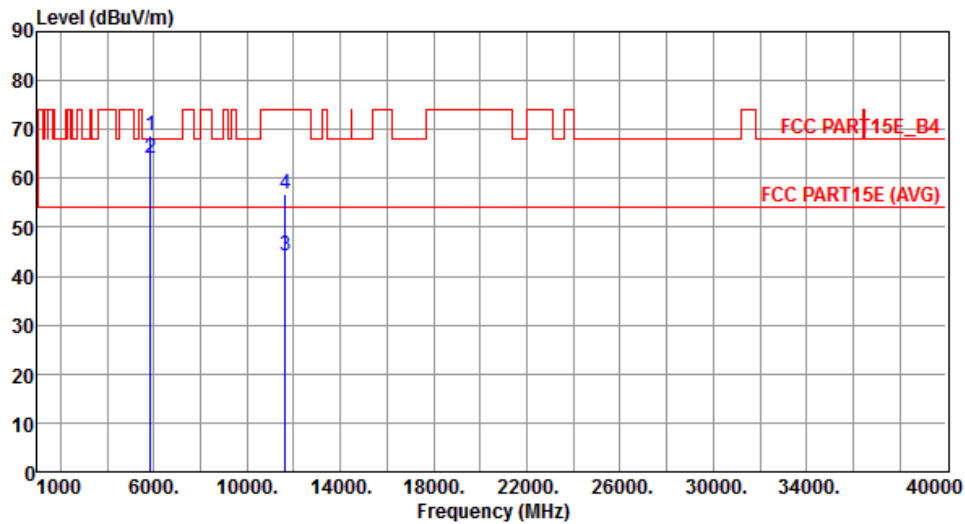
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 66.47                       | 78.20           | -11.73       | 59.52                 | 6.95         | Peak    | 137               | 242                  |
| 2 | 5860.00      | 62.66                       | 68.20           | -5.54        | 55.71                 | 6.95         | Peak    | 137               | 242                  |
| 3 | 11650.00     | 45.53                       | 54.00           | -8.47        | 29.51                 | 16.02        | Average | 153               | 117                  |
| 4 | 11650.00     | 58.26                       | 74.00           | -15.74       | 42.24                 | 16.02        | Peak    | 153               | 117                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | 11a      | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 4    |



|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 68.81                       | 78.20           | -9.39        | 61.86                 | 6.95         | Peak    | 222               | 185                  |
| 2 | 5860.00      | 63.99                       | 68.20           | -4.21        | 57.04                 | 6.95         | Peak    | 222               | 185                  |
| 3 | 11650.00     | 44.15                       | 54.00           | -9.85        | 28.13                 | 16.02        | Average | 261               | 128                  |
| 4 | 11650.00     | 56.83                       | 74.00           | -17.17       | 40.81                 | 16.02        | Peak    | 261               | 128                  |

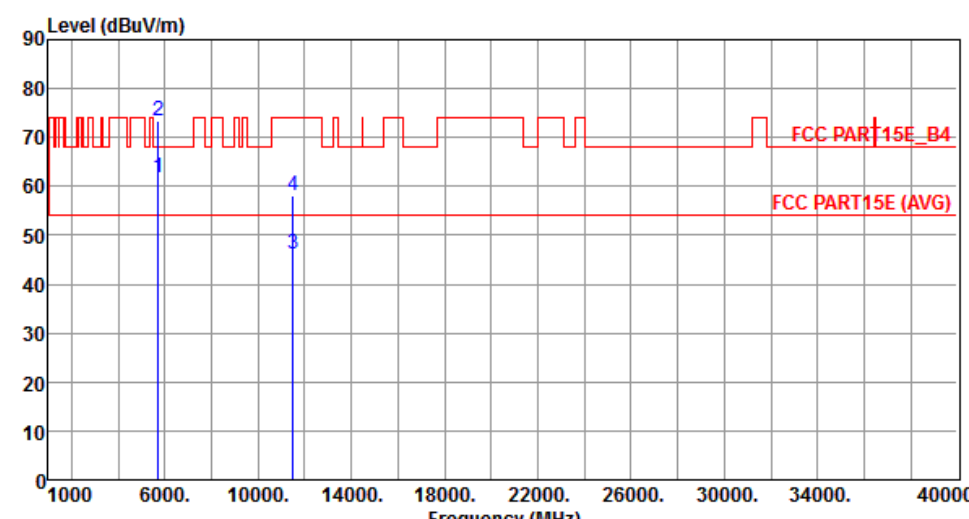
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

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

### 3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

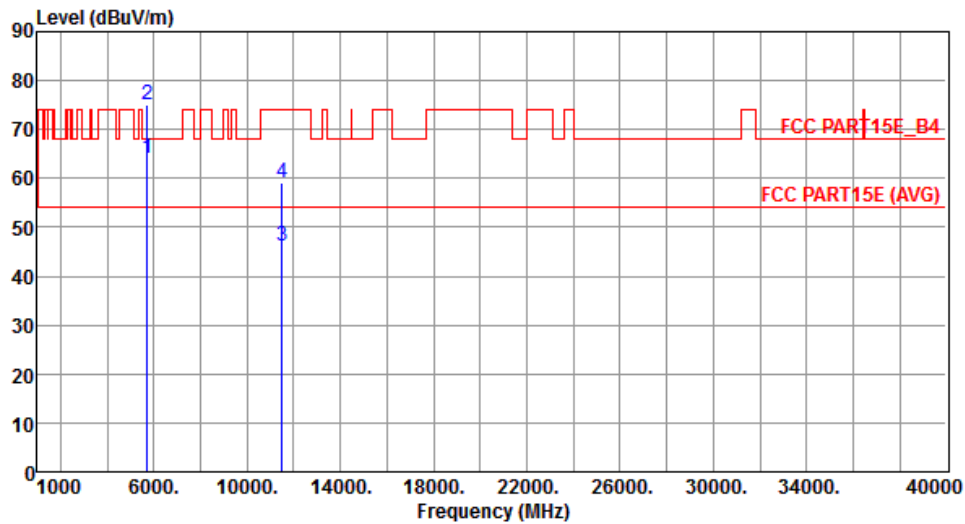
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 61.65                       | 68.20           | -6.55        | 54.95                 | 6.70         | Peak    | 238               | 47                   |
| 2 | 5725.00      | 73.47                       | 78.20           | -4.73        | 66.76                 | 6.71         | Peak    | 238               | 47                   |
| 3 | 11490.00     | 46.02                       | 54.00           | -7.98        | 29.80                 | 16.22        | Average | 123               | 324                  |
| 4 | 11490.00     | 58.22                       | 74.00           | -15.78       | 42.00                 | 16.22        | Peak    | 123               | 324                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 1    |



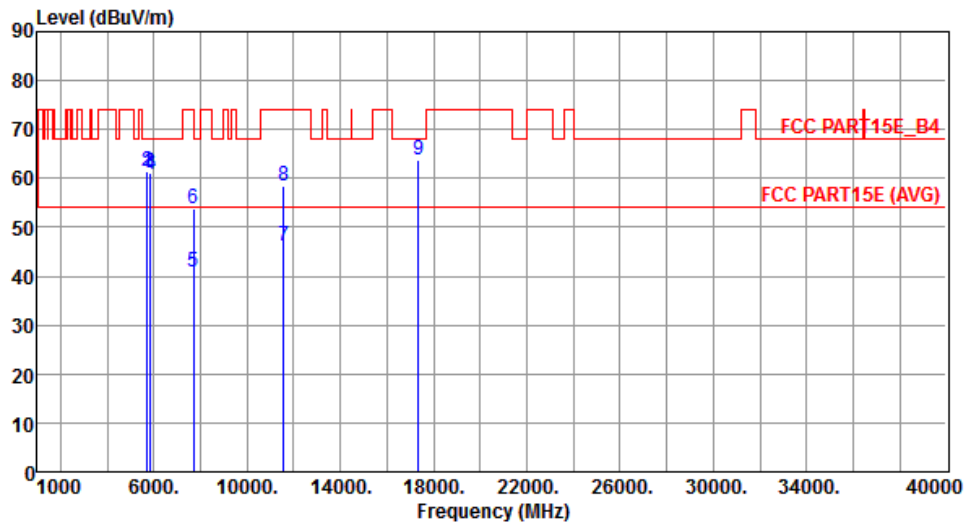
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 64.14                       | 68.20           | -4.06        | 57.44                 | 6.70         | Peak    | 391               | 26                   |
| 2 | 5725.00      | 75.03                       | 78.20           | -3.17        | 68.32                 | 6.71         | Peak    | 391               | 26                   |
| 3 | 11490.00     | 46.21                       | 54.00           | -7.79        | 29.99                 | 16.22        | Average | 242               | 157                  |
| 4 | 11490.00     | 59.13                       | 74.00           | -14.87       | 42.91                 | 16.22        | Peak    | 242               | 157                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 1    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 61.13                       | 68.20           | -7.07        | 54.43                 | 6.70         | Peak    | 221               | 52                   |
| 2 | 5725.00      | 61.48                       | 78.20           | -16.72       | 54.77                 | 6.71         | Peak    | 221               | 52                   |
| 3 | 5850.00      | 60.96                       | 78.20           | -17.24       | 54.01                 | 6.95         | Peak    | 221               | 52                   |
| 4 | 5860.00      | 60.63                       | 68.20           | -7.57        | 53.68                 | 6.95         | Peak    | 221               | 52                   |
| 5 | 7713.30      | 40.87                       | 54.00           | -13.13       | 30.11                 | 10.76        | Average | 100               | 56                   |
| 6 | 7713.30      | 53.79                       | 74.00           | -20.21       | 43.03                 | 10.76        | Peak    | 100               | 56                   |
| 7 | 11570.00     | 46.11                       | 54.00           | -7.89        | 29.99                 | 16.12        | Average | 123               | 324                  |
| 8 | 11570.00     | 58.47                       | 74.00           | -15.53       | 42.35                 | 16.12        | Peak    | 123               | 324                  |
| 9 | 17355.00     | 63.78                       | 68.20           | -4.42        | 42.15                 | 21.63        | Peak    | 210               | 38                   |

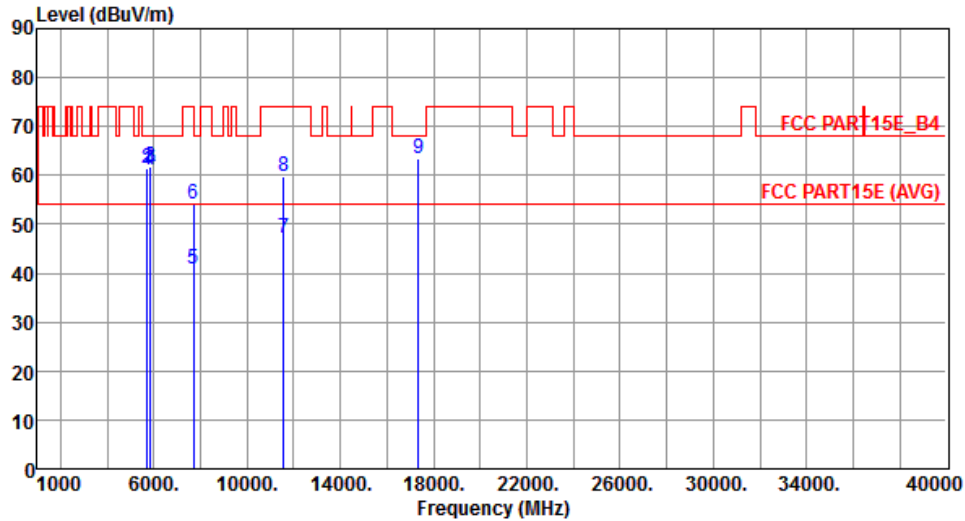
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

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



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 1    |



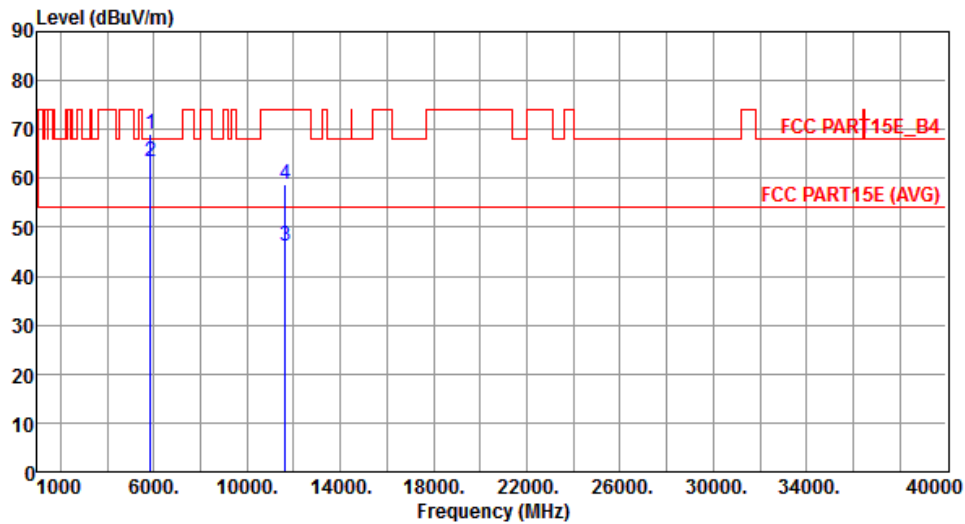
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 61.25                       | 68.20           | -6.95        | 54.55                 | 6.70         | Peak    | 395               | 26                   |
| 2 | 5725.00      | 61.57                       | 78.20           | -16.63       | 54.86                 | 6.71         | Peak    | 395               | 26                   |
| 3 | 5850.00      | 61.72                       | 78.20           | -16.48       | 54.77                 | 6.95         | Peak    | 395               | 26                   |
| 4 | 5860.00      | 61.10                       | 68.20           | -7.10        | 54.15                 | 6.95         | Peak    | 395               | 26                   |
| 5 | 7713.30      | 40.84                       | 54.00           | -13.16       | 30.08                 | 10.76        | Average | 178               | 311                  |
| 6 | 7713.30      | 54.12                       | 74.00           | -19.88       | 43.36                 | 10.76        | Peak    | 178               | 311                  |
| 7 | 11570.00     | 47.02                       | 54.00           | -6.98        | 30.90                 | 16.12        | Average | 250               | 169                  |
| 8 | 11570.00     | 59.89                       | 74.00           | -14.11       | 43.77                 | 16.12        | Peak    | 250               | 169                  |
| 9 | 17355.00     | 63.42                       | 68.20           | -4.78        | 41.79                 | 21.63        | Peak    | 186               | 42                   |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 1    |



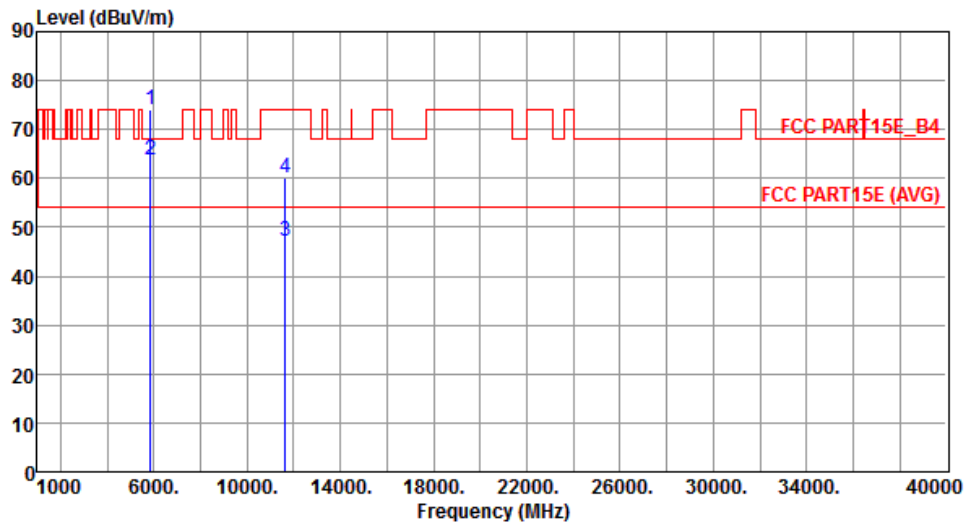
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 69.04                       | 78.20           | -9.16        | 62.09                 | 6.95         | Peak    | 239               | 47                   |
| 2 | 5860.00      | 63.42                       | 68.20           | -4.78        | 56.47                 | 6.95         | Peak    | 239               | 47                   |
| 3 | 11650.00     | 46.26                       | 54.00           | -7.74        | 30.24                 | 16.02        | Average | 139               | 324                  |
| 4 | 11650.00     | 58.78                       | 74.00           | -15.22       | 42.76                 | 16.02        | Peak    | 139               | 324                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 1    |



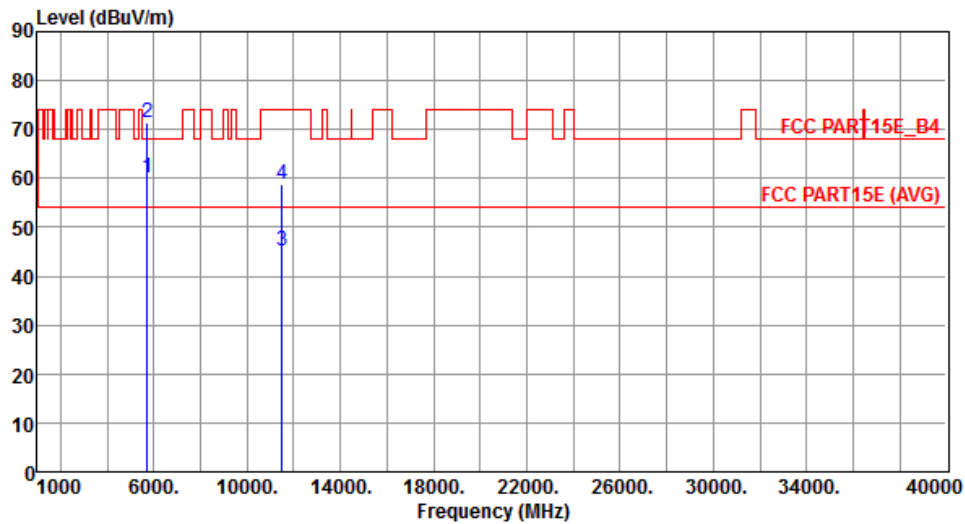
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 74.22                       | 78.20           | -3.98        | 67.27                 | 6.95         | Peak    | 393               | 29                   |
| 2 | 5860.00      | 63.82                       | 68.20           | -4.38        | 56.87                 | 6.95         | Peak    | 393               | 29                   |
| 3 | 11650.00     | 47.12                       | 54.00           | -6.88        | 31.10                 | 16.02        | Average | 252               | 160                  |
| 4 | 11650.00     | 60.03                       | 74.00           | -13.97       | 44.01                 | 16.02        | Peak    | 252               | 160                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 2    |



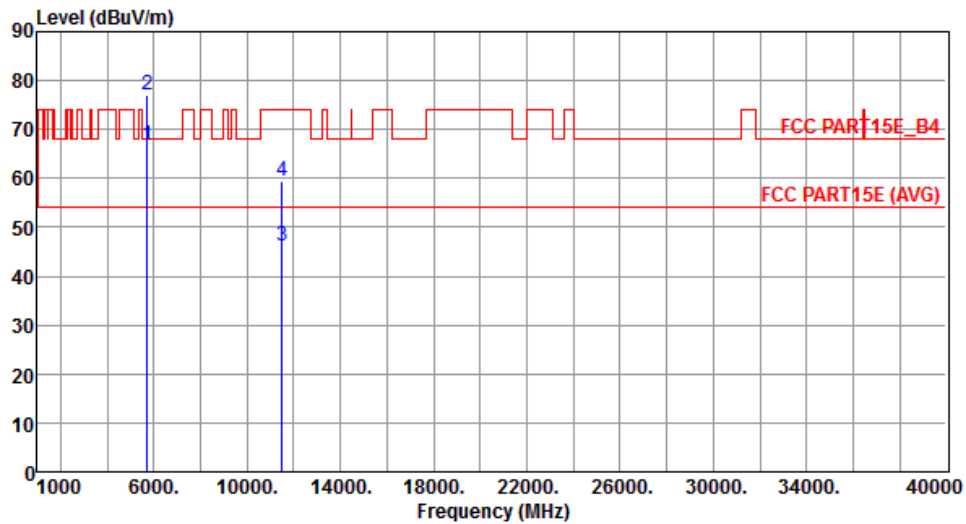
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 60.03                       | 68.20           | -8.17        | 53.33                 | 6.70         | Peak    | 111               | 198                  |
| 2 | 5725.00      | 71.27                       | 78.20           | -6.93        | 64.56                 | 6.71         | Peak    | 111               | 198                  |
| 3 | 11490.00     | 45.18                       | 54.00           | -8.82        | 28.96                 | 16.22        | Average | 116               | 326                  |
| 4 | 11490.00     | 58.71                       | 74.00           | -15.29       | 42.49                 | 16.22        | Peak    | 116               | 326                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 2    |



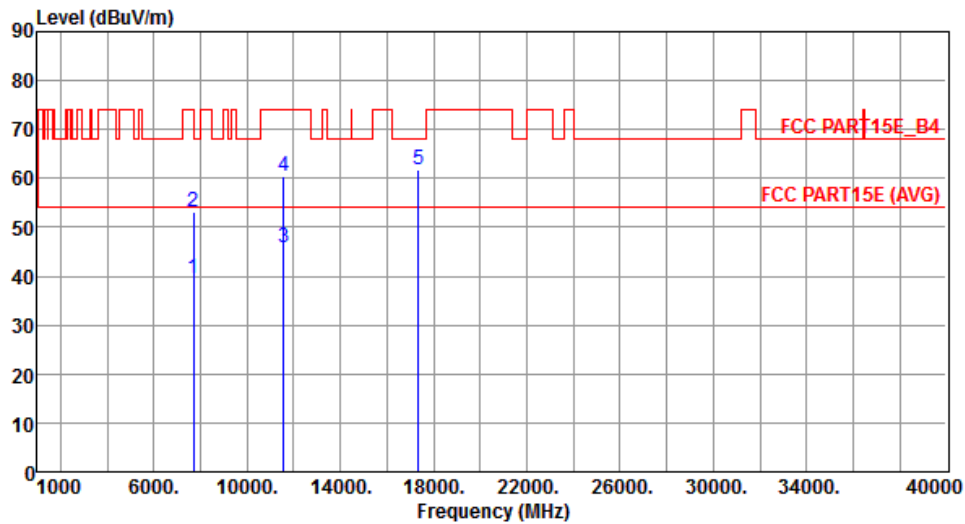
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 66.88                       | 68.20           | -1.32        | 60.18                 | 6.70         | Peak    | 127               | 195                  |
| 2 | 5725.00      | 77.19                       | 78.20           | -1.01        | 70.48                 | 6.71         | Peak    | 127               | 195                  |
| 3 | 11490.00     | 46.08                       | 54.00           | -7.92        | 29.86                 | 16.22        | Average | 255               | 173                  |
| 4 | 11490.00     | 59.51                       | 74.00           | -14.49       | 43.29                 | 16.22        | Peak    | 255               | 173                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 2    |



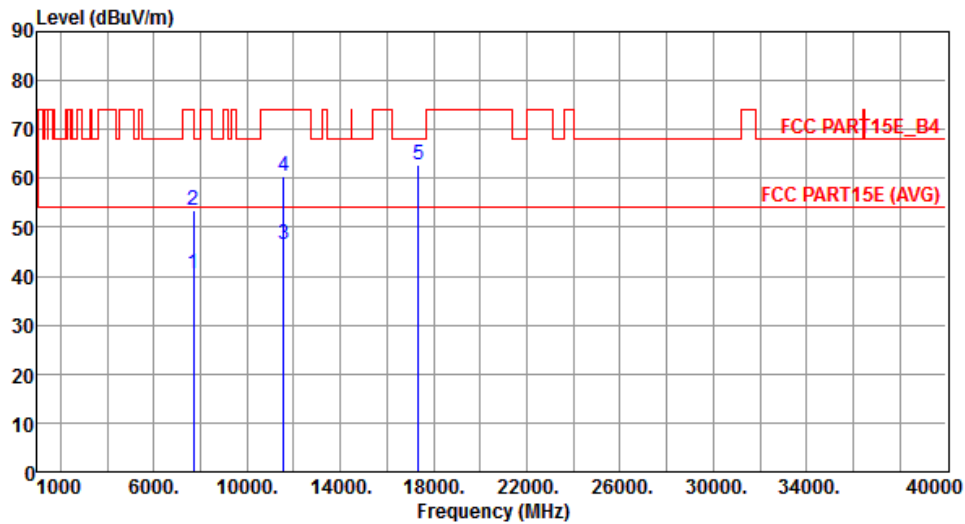
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 7713.00      | 39.65                       | 54.00           | -14.35       | 28.89                 | 10.76        | Average | 100               | 132                  |
| 2 | 7713.00      | 53.06                       | 74.00           | -20.94       | 42.30                 | 10.76        | Peak    | 100               | 132                  |
| 3 | 11570.00     | 45.88                       | 54.00           | -8.12        | 29.76                 | 16.12        | Average | 143               | 132                  |
| 4 | 11570.00     | 60.51                       | 74.00           | -13.49       | 44.39                 | 16.12        | Peak    | 143               | 132                  |
| 5 | 17355.00     | 61.83                       | 68.20           | -6.37        | 40.20                 | 21.63        | Peak    | 123               | 166                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 2    |



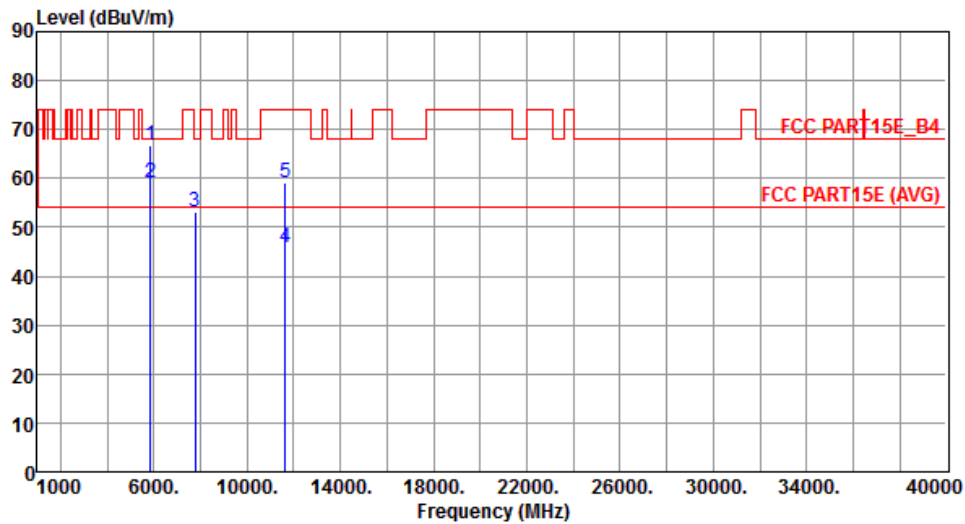
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 7713.00      | 40.64                       | 54.00           | -13.36       | 29.88                 | 10.76        | Average | 117               | 120                  |
| 2 | 7713.00      | 53.35                       | 74.00           | -20.65       | 42.59                 | 10.76        | Peak    | 117               | 120                  |
| 3 | 11570.00     | 46.45                       | 54.00           | -7.55        | 30.33                 | 16.12        | Average | 250               | 170                  |
| 4 | 11570.00     | 60.28                       | 74.00           | -13.72       | 44.16                 | 16.12        | Peak    | 250               | 170                  |
| 5 | 17355.00     | 62.78                       | 68.20           | -5.42        | 41.15                 | 21.63        | Peak    | 100               | 123                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 2    |



|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 66.86                       | 78.20           | -11.34       | 59.91                 | 6.95         | Peak    | 100               | 199                  |
| 2 | 5860.00      | 59.18                       | 68.20           | -9.02        | 52.23                 | 6.95         | Peak    | 100               | 199                  |
| 3 | 7766.60      | 52.99                       | 68.20           | -15.21       | 42.15                 | 10.84        | Peak    | 100               | 129                  |
| 4 | 11650.00     | 45.90                       | 54.00           | -8.10        | 29.88                 | 16.02        | Average | 143               | 133                  |
| 5 | 11650.00     | 59.28                       | 74.00           | -14.72       | 43.26                 | 16.02        | Peak    | 143               | 133                  |

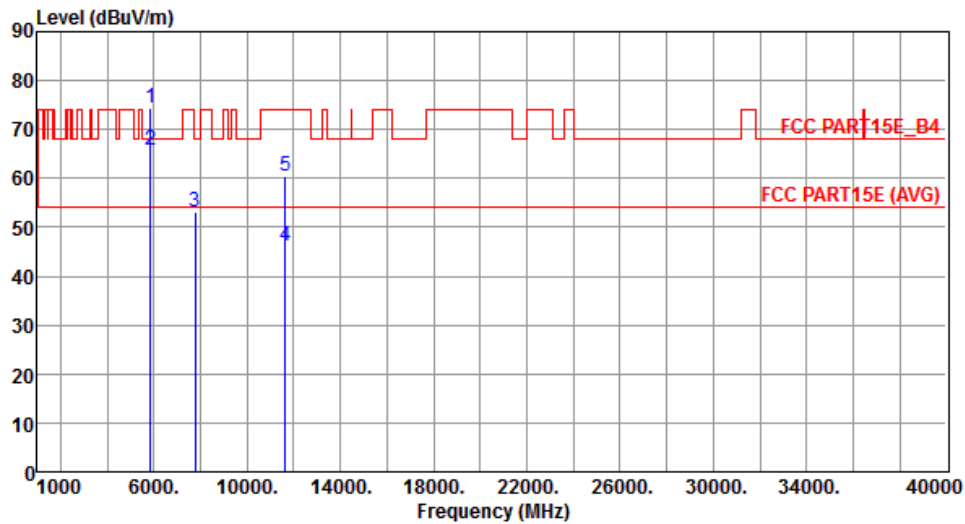
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

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



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 2    |



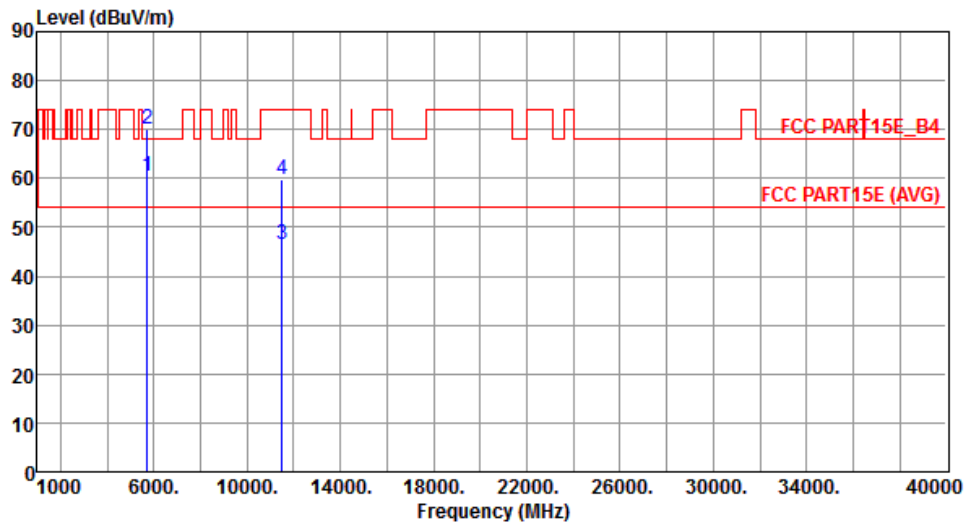
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 74.27                       | 78.20           | -3.93        | 67.32                 | 6.95         | Peak    | 120               | 353                  |
| 2 | 5860.00      | 65.69                       | 68.20           | -2.51        | 58.74                 | 6.95         | Peak    | 120               | 353                  |
| 3 | 7766.60      | 53.22                       | 68.20           | -14.98       | 42.38                 | 10.84        | Peak    | 116               | 123                  |
| 4 | 11650.00     | 46.18                       | 54.00           | -7.82        | 30.16                 | 16.02        | Average | 253               | 170                  |
| 5 | 11650.00     | 60.31                       | 74.00           | -13.69       | 44.29                 | 16.02        | Peak    | 253               | 170                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 3    |



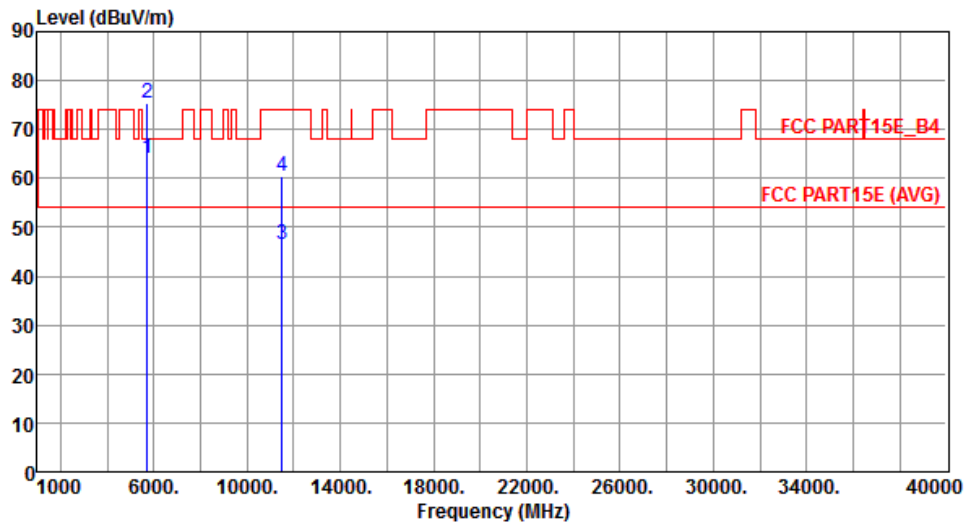
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 60.46                       | 68.20           | -7.74        | 53.76                 | 6.70         | Peak    | 100               | 6                    |
| 2 | 5725.00      | 70.16                       | 78.20           | -8.04        | 63.45                 | 6.71         | Peak    | 100               | 6                    |
| 3 | 11490.00     | 46.36                       | 54.00           | -7.64        | 30.14                 | 16.22        | Average | 166               | 7                    |
| 4 | 11490.00     | 59.73                       | 74.00           | -14.27       | 43.51                 | 16.22        | Peak    | 166               | 7                    |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 3    |



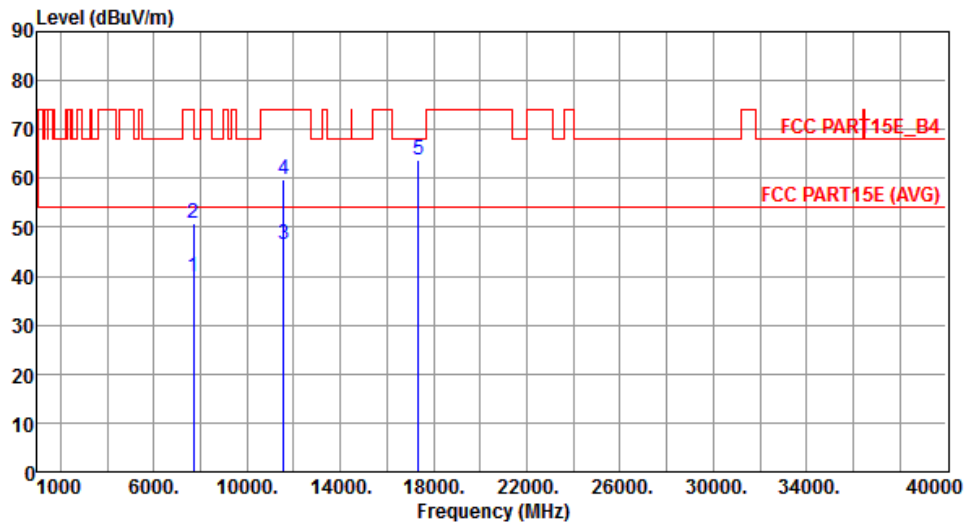
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 64.25                       | 68.20           | -3.95        | 57.55                 | 6.70         | Peak    | 106               | 246                  |
| 2 | 5725.00      | 75.28                       | 78.20           | -2.92        | 68.57                 | 6.71         | Peak    | 106               | 246                  |
| 3 | 11490.00     | 46.53                       | 54.00           | -7.47        | 30.31                 | 16.22        | Average | 281               | 163                  |
| 4 | 11490.00     | 60.35                       | 74.00           | -13.65       | 44.13                 | 16.22        | Peak    | 281               | 163                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 3    |



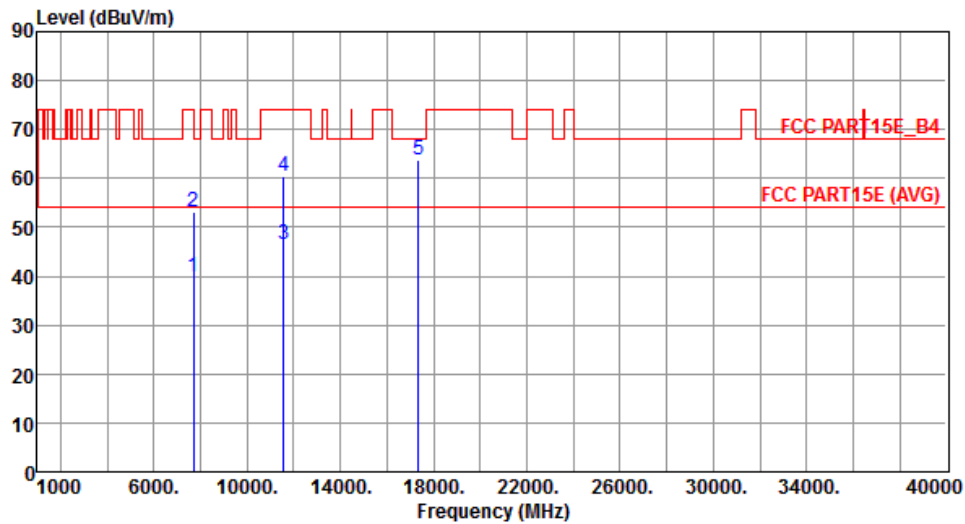
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 7713.00      | 39.76                       | 54.00           | -14.24       | 29.00                 | 10.76        | Average | 100               | 123                  |
| 2 | 7713.00      | 50.85                       | 74.00           | -23.15       | 40.09                 | 10.76        | Peak    | 100               | 123                  |
| 3 | 11570.00     | 46.44                       | 54.00           | -7.56        | 30.32                 | 16.12        | Average | 162               | 9                    |
| 4 | 11570.00     | 59.73                       | 74.00           | -14.27       | 43.61                 | 16.12        | Peak    | 162               | 9                    |
| 5 | 17355.00     | 63.79                       | 68.20           | -4.41        | 42.16                 | 21.63        | Peak    | 123               | 158                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 3    |



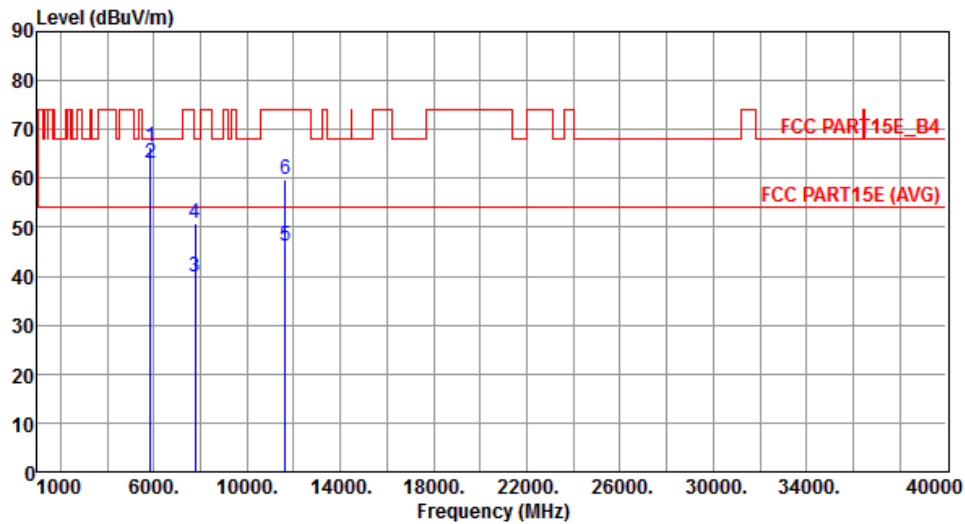
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 7713.00      | 39.78                       | 54.00           | -14.22       | 29.02                 | 10.76        | Average | 100               | 166                  |
| 2 | 7713.00      | 53.26                       | 74.00           | -20.74       | 42.50                 | 10.76        | Peak    | 100               | 166                  |
| 3 | 11570.00     | 46.55                       | 54.00           | -7.45        | 30.43                 | 16.12        | Average | 289               | 162                  |
| 4 | 11570.00     | 60.31                       | 74.00           | -13.69       | 44.19                 | 16.12        | Peak    | 289               | 162                  |
| 5 | 17355.00     | 63.85                       | 68.20           | -4.35        | 42.22                 | 21.63        | Peak    | 100               | 167                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 3    |



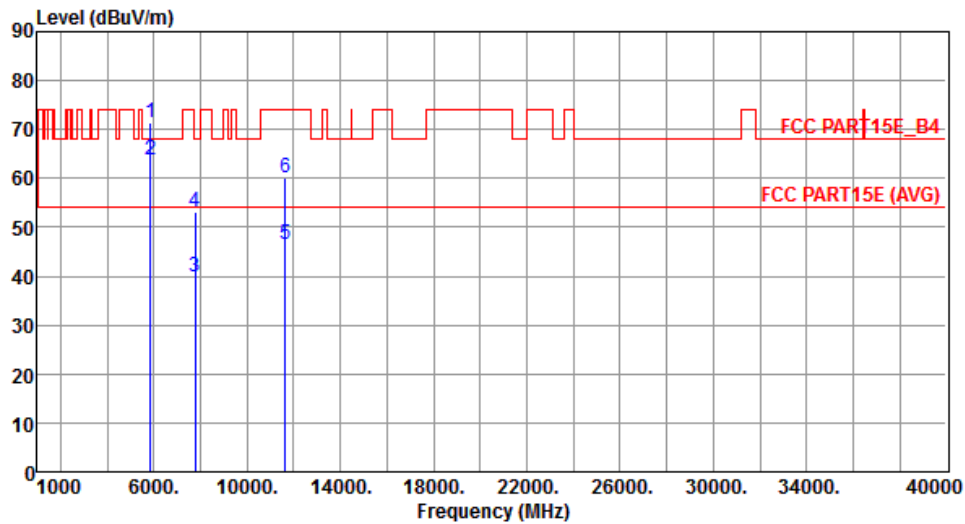
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 66.27                       | 78.20           | -11.93       | 59.32                 | 6.95         | Peak    | 171               | 3                    |
| 2 | 5860.00      | 63.18                       | 68.20           | -5.02        | 56.23                 | 6.95         | Peak    | 171               | 3                    |
| 3 | 7766.60      | 39.96                       | 54.00           | -14.04       | 29.12                 | 10.84        | Average | 100               | 123                  |
| 4 | 7766.60      | 50.83                       | 68.20           | -17.37       | 39.99                 | 10.84        | Peak    | 100               | 123                  |
| 5 | 11650.00     | 46.29                       | 54.00           | -7.71        | 30.27                 | 16.02        | Average | 166               | 4                    |
| 6 | 11650.00     | 59.73                       | 74.00           | -14.27       | 43.71                 | 16.02        | Peak    | 166               | 4                    |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 3    |



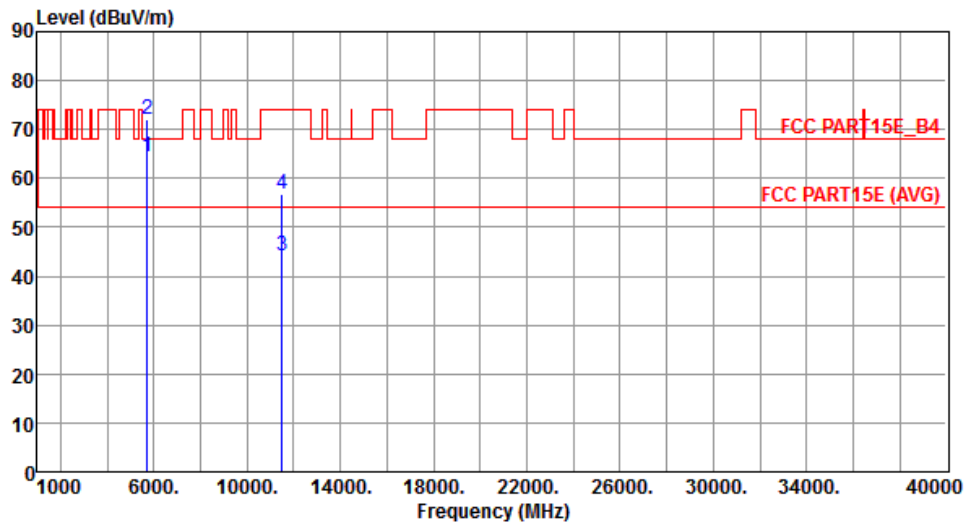
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 71.36                       | 78.20           | -6.84        | 64.41                 | 6.95         | Peak    | 113               | 359                  |
| 2 | 5860.00      | 63.83                       | 68.20           | -4.37        | 56.88                 | 6.95         | Peak    | 113               | 359                  |
| 3 | 7766.60      | 39.96                       | 54.00           | -14.04       | 29.12                 | 10.84        | Average | 100               | 166                  |
| 4 | 7766.60      | 53.26                       | 68.20           | -14.94       | 42.42                 | 10.84        | Peak    | 100               | 166                  |
| 5 | 11650.00     | 46.59                       | 54.00           | -7.41        | 30.57                 | 16.02        | Average | 276               | 166                  |
| 6 | 11650.00     | 60.25                       | 74.00           | -13.75       | 44.23                 | 16.02        | Peak    | 276               | 166                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5745 |
| Polarization | Horizontal | Test Configuration | 4    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 64.28                       | 68.20           | -3.92        | 57.58                 | 6.70         | Peak    | 135               | 249                  |
| 2 | 5725.00      | 72.03                       | 78.20           | -6.17        | 65.32                 | 6.71         | Peak    | 135               | 249                  |
| 3 | 11490.00     | 44.23                       | 54.00           | -9.77        | 28.01                 | 16.22        | Average | 155               | 113                  |
| 4 | 11490.00     | 56.89                       | 74.00           | -17.11       | 40.67                 | 16.22        | Peak    | 155               | 113                  |

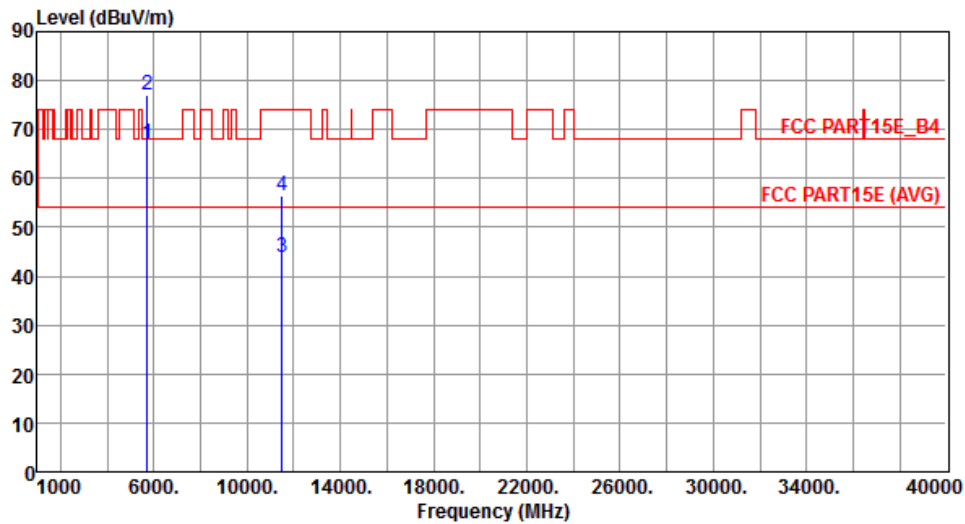
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

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



|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5745 |
| Polarization | Vertical | Test Configuration | 4    |



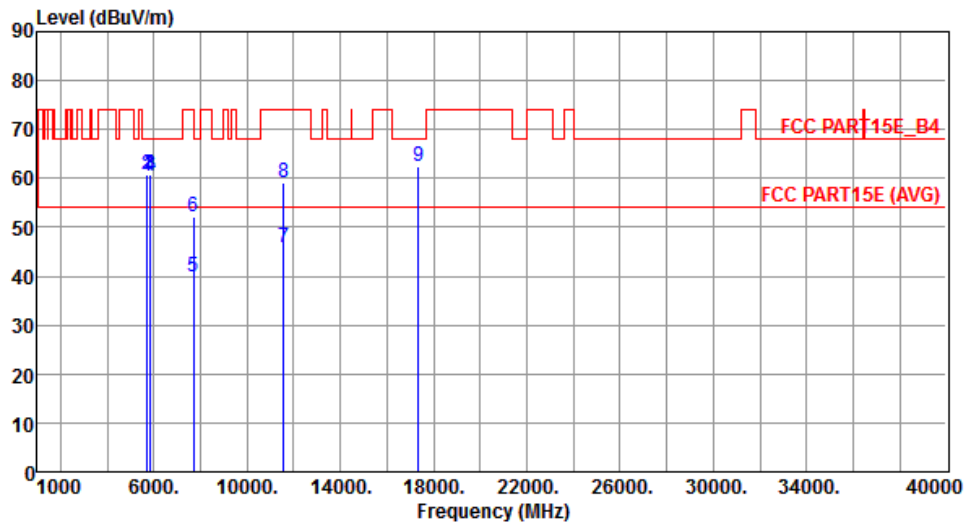
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 67.04                       | 68.20           | -1.16        | 60.34                 | 6.70         | Peak    | 242               | 209                  |
| 2 | 5725.00      | 76.94                       | 78.20           | -1.26        | 70.23                 | 6.71         | Peak    | 242               | 209                  |
| 3 | 11490.00     | 43.78                       | 54.00           | -10.22       | 27.56                 | 16.22        | Average | 253               | 140                  |
| 4 | 11490.00     | 56.35                       | 74.00           | -17.65       | 40.13                 | 16.22        | Peak    | 253               | 140                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5785 |
| Polarization | Horizontal | Test Configuration | 4    |



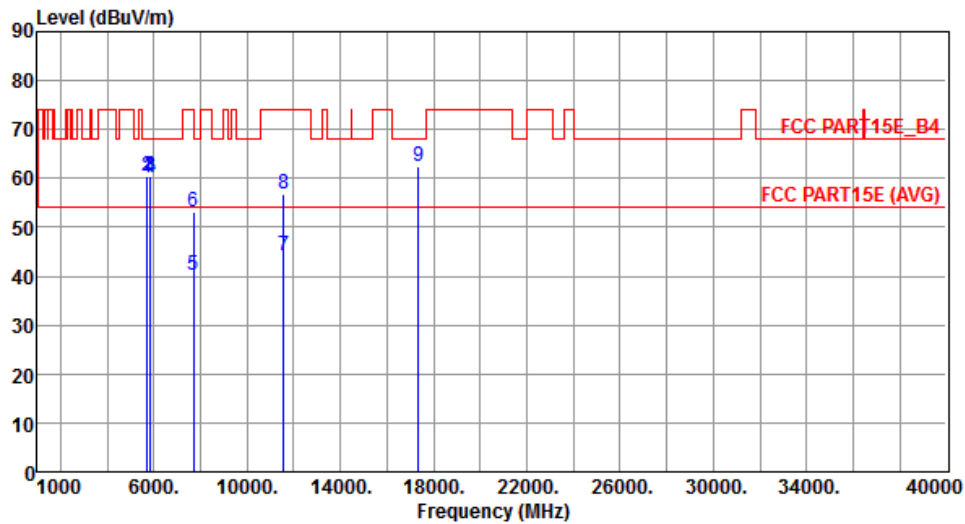
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 60.48                       | 68.20           | -7.72        | 53.78                 | 6.70         | Peak    | 136               | 224                  |
| 2 | 5725.00      | 60.79                       | 78.20           | -17.41       | 54.08                 | 6.71         | Peak    | 136               | 224                  |
| 3 | 5850.00      | 60.78                       | 78.20           | -17.42       | 53.83                 | 6.95         | Peak    | 136               | 224                  |
| 4 | 5860.00      | 60.37                       | 68.20           | -7.83        | 53.42                 | 6.95         | Peak    | 136               | 224                  |
| 5 | 7713.30      | 39.88                       | 54.00           | -14.12       | 29.12                 | 10.76        | Average | 171               | 315                  |
| 6 | 7713.30      | 52.29                       | 74.00           | -21.71       | 41.53                 | 10.76        | Peak    | 171               | 315                  |
| 7 | 11570.00     | 45.85                       | 54.00           | -8.15        | 29.73                 | 16.12        | Average | 153               | 119                  |
| 8 | 11570.00     | 59.02                       | 74.00           | -14.98       | 42.90                 | 16.12        | Peak    | 153               | 119                  |
| 9 | 17355.00     | 62.27                       | 68.20           | -5.93        | 40.64                 | 21.63        | Peak    | 251               | 82                   |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5785 |
| Polarization | Vertical | Test Configuration | 4    |



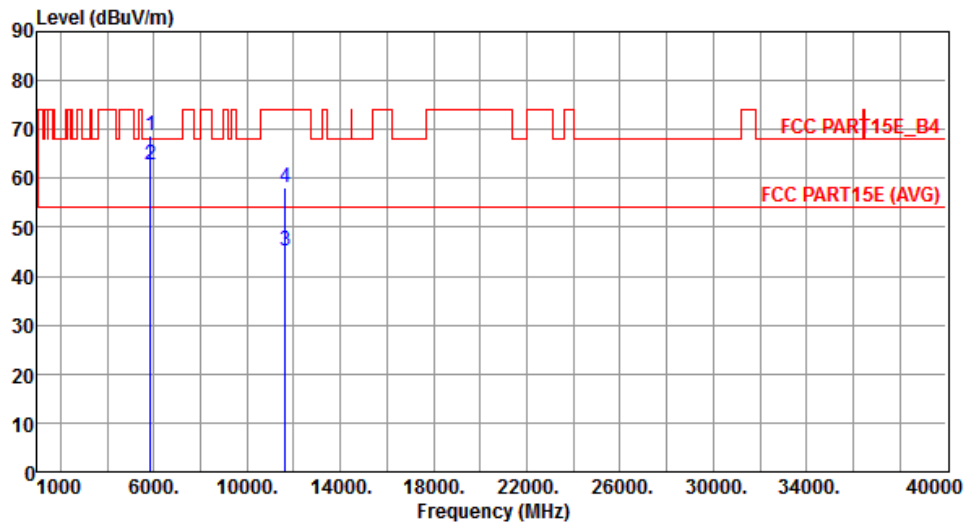
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5715.00      | 60.23                       | 68.20           | -7.97        | 53.53                 | 6.70         | Peak    | 223               | 208                  |
| 2 | 5725.00      | 60.58                       | 78.20           | -17.62       | 53.87                 | 6.71         | Peak    | 223               | 208                  |
| 3 | 5850.00      | 60.45                       | 78.20           | -17.75       | 53.50                 | 6.95         | Peak    | 223               | 208                  |
| 4 | 5860.00      | 60.27                       | 68.20           | -7.93        | 53.32                 | 6.95         | Peak    | 223               | 208                  |
| 5 | 7713.30      | 40.12                       | 54.00           | -13.88       | 29.36                 | 10.76        | Average | 215               | 43                   |
| 6 | 7713.30      | 53.00                       | 74.00           | -21.00       | 42.24                 | 10.76        | Peak    | 215               | 43                   |
| 7 | 11570.00     | 44.16                       | 54.00           | -9.84        | 28.04                 | 16.12        | Average | 262               | 124                  |
| 8 | 11570.00     | 56.63                       | 74.00           | -17.37       | 40.51                 | 16.12        | Peak    | 262               | 124                  |
| 9 | 17355.00     | 62.33                       | 68.20           | -5.87        | 40.70                 | 21.63        | Peak    | 324               | 308                  |

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).

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | HT20       | Test Freq. (MHz)   | 5825 |
| Polarization | Horizontal | Test Configuration | 4    |



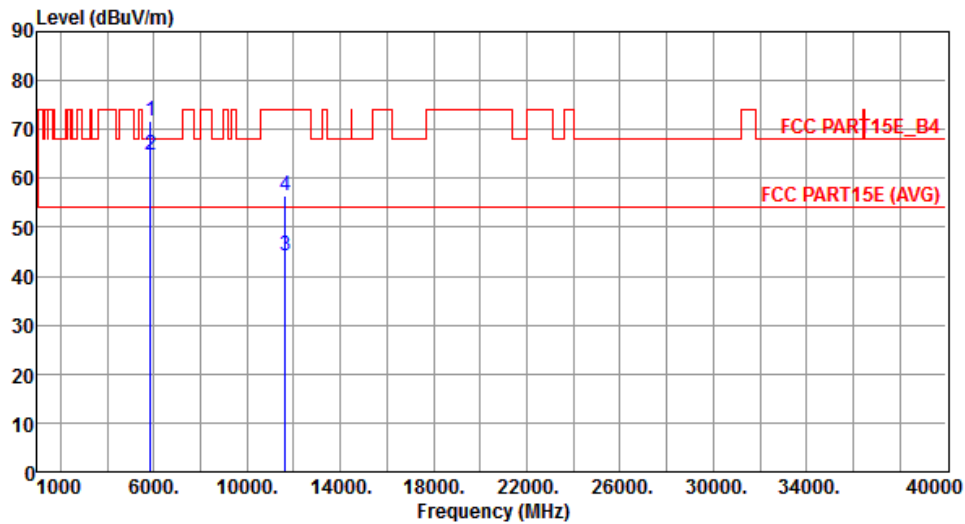
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 68.81                       | 78.20           | -9.39        | 61.86                 | 6.95         | Peak    | 133               | 248                  |
| 2 | 5860.00      | 62.72                       | 68.20           | -5.48        | 55.77                 | 6.95         | Peak    | 133               | 248                  |
| 3 | 11650.00     | 45.12                       | 54.00           | -8.88        | 29.10                 | 16.02        | Average | 159               | 110                  |
| 4 | 11650.00     | 58.02                       | 74.00           | -15.98       | 42.00                 | 16.02        | Peak    | 159               | 110                  |

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).

|              |          |                    |      |
|--------------|----------|--------------------|------|
| Modulation   | HT20     | Test Freq. (MHz)   | 5825 |
| Polarization | Vertical | Test Configuration | 4    |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5850.00      | 71.75                       | 78.20           | -6.45        | 64.80                 | 6.95         | Peak    | 232               | 182                  |
| 2 | 5860.00      | 64.92                       | 68.20           | -3.28        | 57.97                 | 6.95         | Peak    | 232               | 182                  |
| 3 | 11650.00     | 44.02                       | 54.00           | -9.98        | 28.00                 | 16.02        | Average | 265               | 122                  |
| 4 | 11650.00     | 56.42                       | 74.00           | -17.58       | 40.40                 | 16.02        | Peak    | 265               | 122                  |

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

\*Factor includes antenna factor , cable loss and amplifier gain

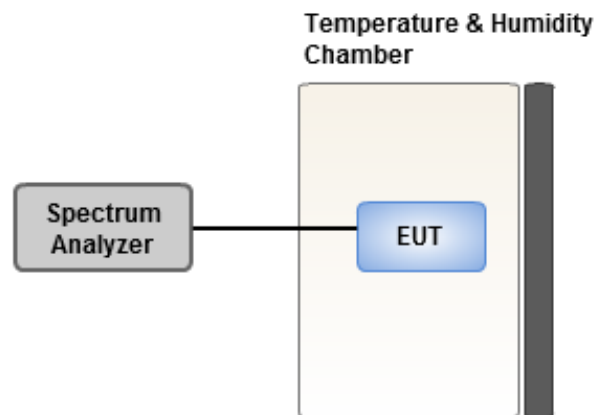
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

### 3.6 Frequency Stability (Reference only)

#### 3.6.1 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under -30 to 70 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

#### 3.6.2 Test Setup



### 3.6.3 Test Result of Frequency Stability

| Frequency:<br>5785 MHz | Frequency Drift (ppm) |           |                 |            |
|------------------------|-----------------------|-----------|-----------------|------------|
| Temperature (°C)       | 0 minute              | 2 minutes | 5 minutes       | 10 minutes |
| T20°C Vmax             | 6.87                  | 6.83      | 6.78            | 6.68       |
| T20°C Vmin             | 8.71                  | 9.02      | 9.04            | 9.44       |
| T70°C Vnom             | 7.60                  | 7.64      | 7.76            | 7.53       |
| T60°C Vnom             | 7.09                  | 6.87      | 6.88            | 7.50       |
| T50°C Vnom             | 8.83                  | 8.87      | 8.38            | 8.31       |
| T40°C Vnom             | 8.36                  | 8.83      | 8.59            | 8.56       |
| T30°C Vnom             | 7.55                  | 7.61      | 7.86            | 8.04       |
| T20°C Vnom             | 6.96                  | 7.07      | 7.45            | 7.18       |
| T10°C Vnom             | 6.75                  | 7.37      | 6.70            | 7.02       |
| T0°C Vnom              | 7.73                  | 7.91      | 7.83            | 8.26       |
| T-10°C Vnom            | 6.75                  | 6.92      | 7.02            | 6.95       |
| T-20°C Vnom            | 6.98                  | 7.14      | 6.91            | 7.41       |
| T-30°C Vnom            | 7.86                  | 8.07      | 7.70            | 8.04       |
| Vnom [Vac]: 120        | Vmax [Vac]: 138       |           | Vmin [Vac]: 102 |            |
| Tnom [°C]: 20          | Tmax [°C]: 70         |           | Tmin [°C]: -30  |            |

## 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>.

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