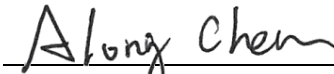


FCC C2PC Test Report

FCC ID : I88NWA5123-ACHD
Equipment : 802.11ac Wave2 Dual-Radio Unified Access Point
Model No. : NWA5123-AC HD
Multiple Listing : Refer to item 1.1.1 for more details
Brand Name : ZYXEL
Applicant : Zyxel Communications Corporation
Address : No.2 Industry East RD. IX, Hsinchu Science Park, Hsinchu 30075, Taiwan, R.O.C.
Standard : 47 CFR FCC Part 15.407
Received Date : Jun. 22, 2017
Tested Date : Jul. 18 ~ Sep. 08, 2017

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.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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Release Record

| Report No. | Version | Description | Issued Date |
|-------------|---------|---------------|---------------|
| FR762202-03 | Rev. 01 | Initial issue | Oct. 17, 2017 |

Summary of Test Results

| FCC Rules | Test Items | Measured | Result |
|---------------------|-----------------------------|--|--------|
| 15.207 | Conducted Emissions | [dBuV]: 0.561MHz 39.96 (Margin -6.04dB) - AV | Pass |
| 15.407(b) 15.209 | Radiated Emissions | [dBuV/m at 3m]: 5430.00MHz 53.87 (Margin -0.13dB) - AV | Pass |
| 15.407(a) | Emission Bandwidth | Meet the requirement of limit | Pass |
| 15.407(a) | RF Output Power | Max Power [dBm]: Non-beamforming mode 5250~5350MHz: 22.45 5470~5725MHz: 23.31 Beamforming mode 5250~5350MHz: 21.08 5470~5725MHz: 21.12 | Pass |
| 15.407(a) | Peak Power Spectral Density | Meet the requirement of limit | Pass |
| 15.407(g) | Frequency Stability | Meet the requirement of limit | Pass |
| 15.203 | Antenna Requirement | Meet the requirement of limit | Pass |

1 General Description

1.1 Information

This report is issued as a FCC Class II Permissive Change. The modification is only concerned with adding 5250~5350MHz and 5470~5725 MHz band by software setting.

1.1.1 Product Details

The following models are provided to this EUT.

| Brand Name | Model Name | Product Name |
|--|---------------|--|
| ZXYEL | NWA5123-AC HD | 802.11 ac Wave2 Dual-Radio Unified Access Point |
| | NWA1123-AC HD | 802.11 ac Wave2 Dual-Radio Access Point |
| | NAP113 | 802.11 ac Wave2 Dual-Radio Nebula Cloud Managed Access Point |
| <ul style="list-style-type: none"> ✦ All models are electrically identical, different model names are for marketing purpose. ✦ The above models, model NWA5123-AC HD was selected as a representative one for the final test and only its data was recorded in this report. | | |

1.1.2 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 _{TX}) | Data Rate / MCS |
| 5250-5350 5470-5725 | a | 5260-5320 5500-5720 | 52-64 [4] 100-144 [12] | 3 | 6-54 Mbps |
| 5250-5350 5470-5725 | n (HT20) | 5260-5320 5500-5720 | 52-64 [4] 100-144 [12] | 3 | MCS 0-23 |
| 5250-5350 5470-5725 | n (HT40) | 5270-5310 5510-5710 | 54-62 [2] 102-142 [6] | 3 | MCS 0-23 |
| 5250-5350 5470-5725 | ac (VHT20) | 5260-5320 5500-5720 | 52-64 [4] 100-144 [12] | 3 | MCS 0-9 |
| 5250-5350 5470-5725 | ac (VHT40) | 5270-5310 5510-5710 | 54-62 [2] 102-142 [6] | 3 | MCS 0-9 |
| 5250-5350 5470-5725 | ac (VHT80) | 5290 5530-5690 | 58 [1] 106-138 [3] | 3 | MCS 0-9 |

Note 1: RF output power specifies that Maximum Conducted Output Power.

Note 2: 802.11 a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

Note 3: 802.11 n/ac supports beamforming mode.

1.1.3 Antenna Details

| Type | Connector | Gain (dBi) | Remarks |
|----------|-----------|------------|---------|
| Monopole | I-PEX | 4 | --- |
| Monopole | I-PEX | 4 | --- |
| Monopole | I-PEX | 4 | --- |

1.1.4 Power Supply Type of Equipment under Test (EUT)

| | |
|--------------------------|---|
| Power Supply Type | From AC adapter: 12Vdc From PoE: 54Vdc |
|--------------------------|---|

1.1.5 Accessories

| Accessories | | |
|-------------|------------|--|
| No. | Equipment | Description |
| 1 | AC adapter | Brand: APD Model: WA-24Q12R Power Rating: I/P: 100-240Vac, 50-60Hz, 0.7A Max. O/P: 12Vdc, 2A Power Line: 1.4m non-shielded without core |

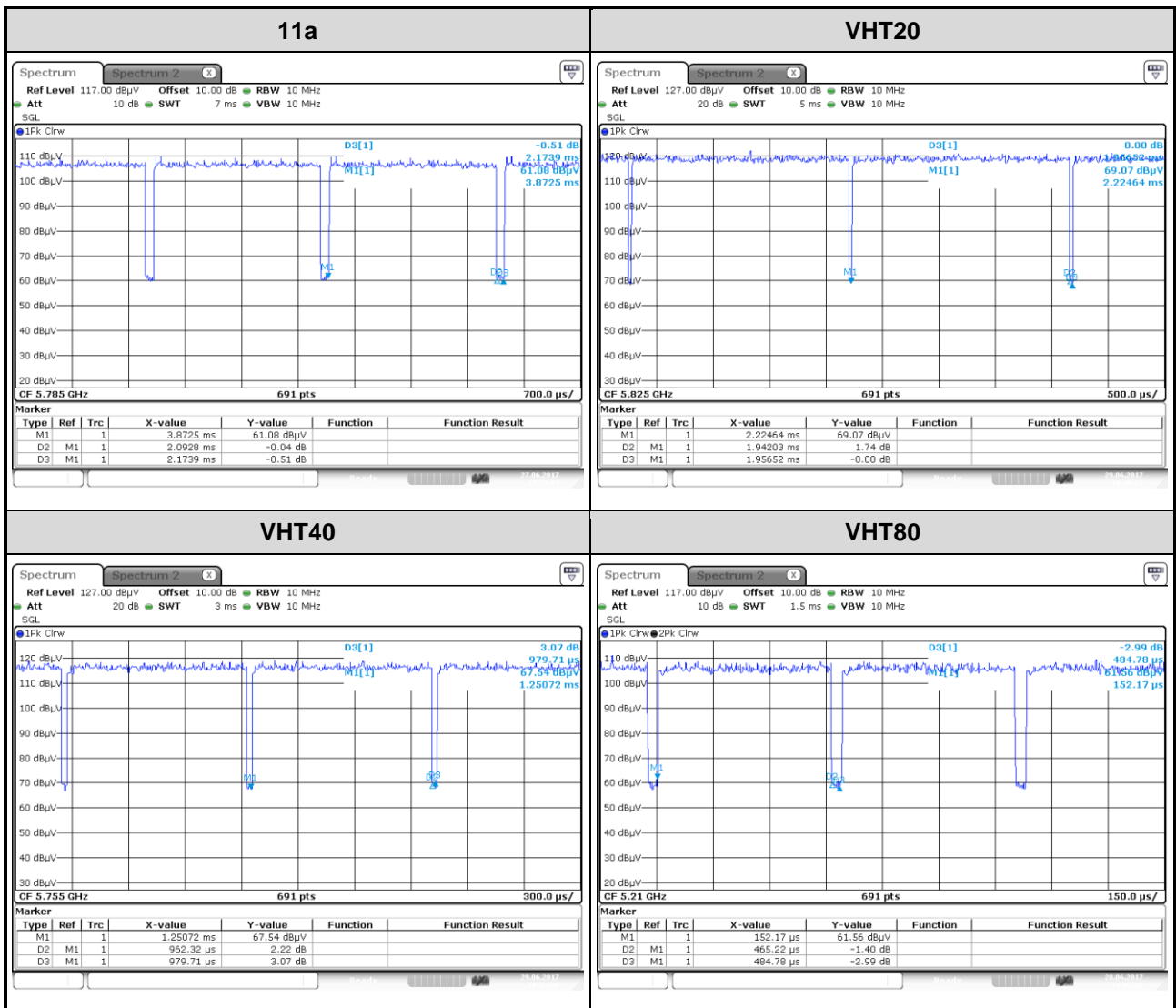
1.1.6 Channel List

| 802.11 a / HT20 / VHT20 | | HT40 / VHT40 | |
|-------------------------|----------------|--------------|----------------|
| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
| 52 | 5260 | 54 | 5270 |
| 56 | 5280 | 62 | 5310 |
| 60 | 5300 | 102 | 5510 |
| 64 | 5320 | 110 | 5550 |
| 100 | 5500 | 118 | 5590 |
| 104 | 5520 | 126 | 5630 |
| 108 | 5540 | 134 | 5670 |
| 112 | 5560 | 142 | 5710 |
| 116 | 5580 | VHT80 | |
| 120 | 5600 | 58 | 5290 |
| 124 | 5620 | 106 | 5530 |
| 128 | 5640 | 122 | 5610 |
| 132 | 5660 | 138 | 5690 |
| 136 | 5680 | --- | --- |
| 140 | 5700 | --- | --- |
| 144 | 5720 | --- | --- |

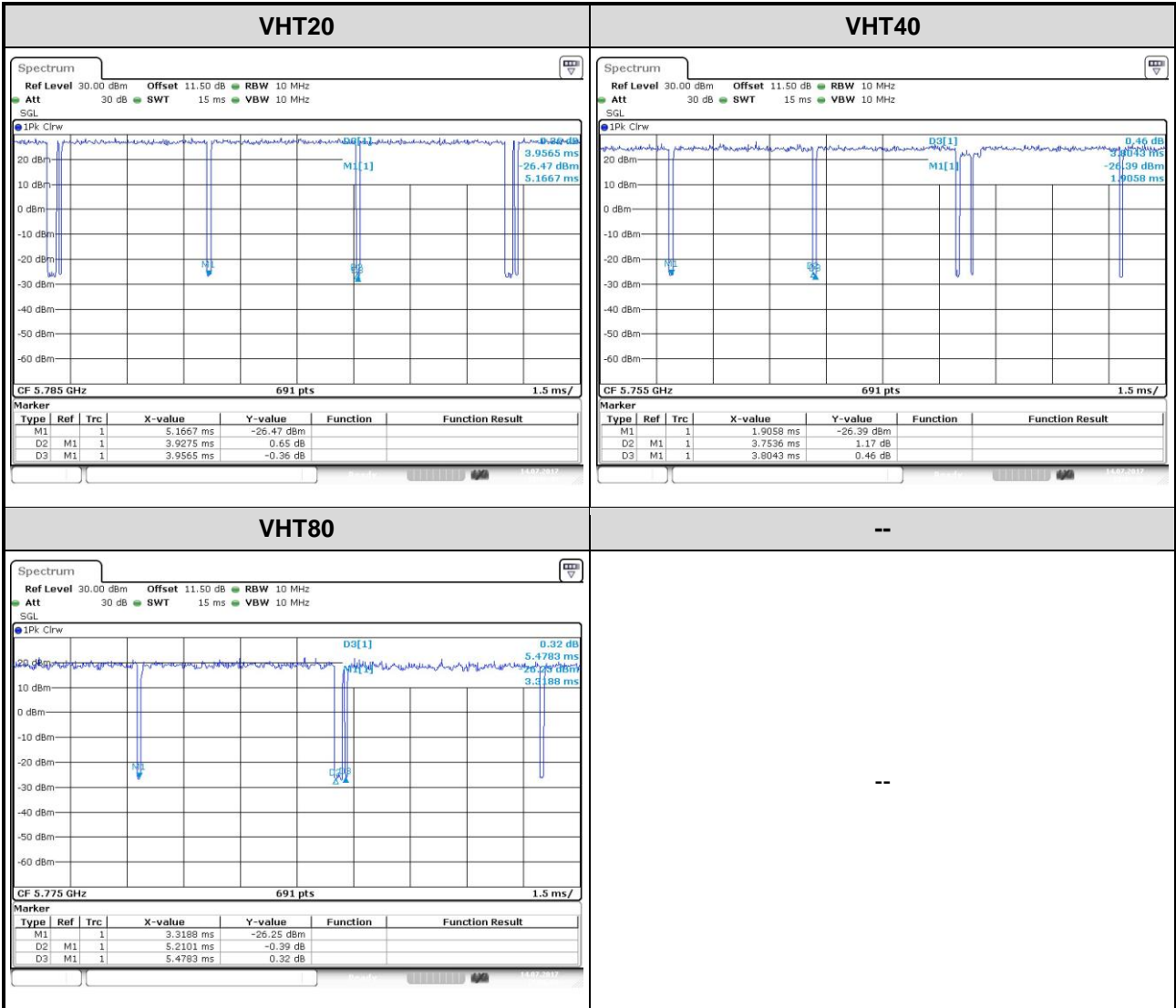
1.1.7 Test Tool and Duty Cycle

| Test Tool | putty, V0.6 | | | | |
|----------------------------|-------------|-----------------|------------------|----------------|------------------|
| Duty Cycle and Duty Factor | Mode | Non-beamforming | | Beamforming | |
| | | Duty cycle (%) | Duty factor (dB) | Duty cycle (%) | Duty factor (dB) |
| | 11a | 96.27% | 0.17 | --- | --- |
| | VHT20 | 99.26% | 0.03 | 99.27% | 0.03 |
| | VHT40 | 98.22% | 0.08 | 98.67% | 0.06 |
| VHT80 | 95.97% | 0.18 | 95.10% | 0.22 | |

Non-beamforming mode



Beamforming mode



1.1.8 Power Setting

| For Frequency band 5250~5350 MHz | | | |
|----------------------------------|----------------------|-----------------|-------------|
| Modulation Mode | Test Frequency (MHz) | Power Set | |
| | | Non-Beamforming | Beamforming |
| 11a | 5260 | 64 | --- |
| 11a | 5300 | 64 | --- |
| 11a | 5320 | 64 | --- |
| HT20 | 5260 | 64 | 62 |
| HT20 | 5300 | 64 | 62 |
| HT20 | 5320 | 64 | 62 |
| HT40 | 5270 | 70 | 62 |
| HT40 | 5310 | 67 | 56 |
| VHT20 | 5260 | 64 | 62 |
| VHT20 | 5300 | 64 | 62 |
| VHT20 | 5320 | 64 | 62 |
| VHT40 | 5270 | 70 | 62 |
| VHT40 | 5310 | 67 | 56 |
| VHT80 | 5290 | 56 | 50 |

| For Frequency band 5470~5725 MHz | | | |
|----------------------------------|----------------------|-----------------|-------------|
| Modulation Mode | Test Frequency (MHz) | Power Set | |
| | | Non-Beamforming | Beamforming |
| 11a | 5500 | 68 | --- |
| 11a | 5580 | 64 | --- |
| 11a | 5700 | 68 | --- |
| HT20 | 5500 | 68 | 64 |
| HT20 | 5580 | 64 | 60 |
| HT20 | 5700 | 64 | 62 |
| HT40 | 5510 | 70 | 64 |
| HT40 | 5590 | 76 | 66 |
| HT40 | 5670 | 72 | 66 |
| VHT20 | 5500 | 68 | 64 |
| VHT20 | 5580 | 64 | 60 |
| VHT20 | 5700 | 64 | 62 |
| VHT40 | 5510 | 70 | 64 |
| VHT40 | 5590 | 76 | 66 |
| VHT40 | 5670 | 72 | 66 |
| VHT80 | 5530 | 58 | 54 |
| VHT80 | 5610 | 70 | 66 |

Channel that extends across the 5.725 GHz boundary

| For Frequency band 5470~5725 MHz | | | |
|----------------------------------|----------------------|-----------------|-------------|
| Modulation Mode | Test Frequency (MHz) | Power Set | |
| | | Non-Beamforming | Beamforming |
| 11a | 5720 | 68 | --- |
| HT20 | 5720 | 68 | 62 |
| HT40 | 5710 | 74 | 66 |
| VHT20 | 5720 | 68 | 62 |
| VHT40 | 5710 | 74 | 66 |
| VHT80 | 5690 | 80 | 66 |

1.2 Local Support Equipment List

Non-beamforming mode

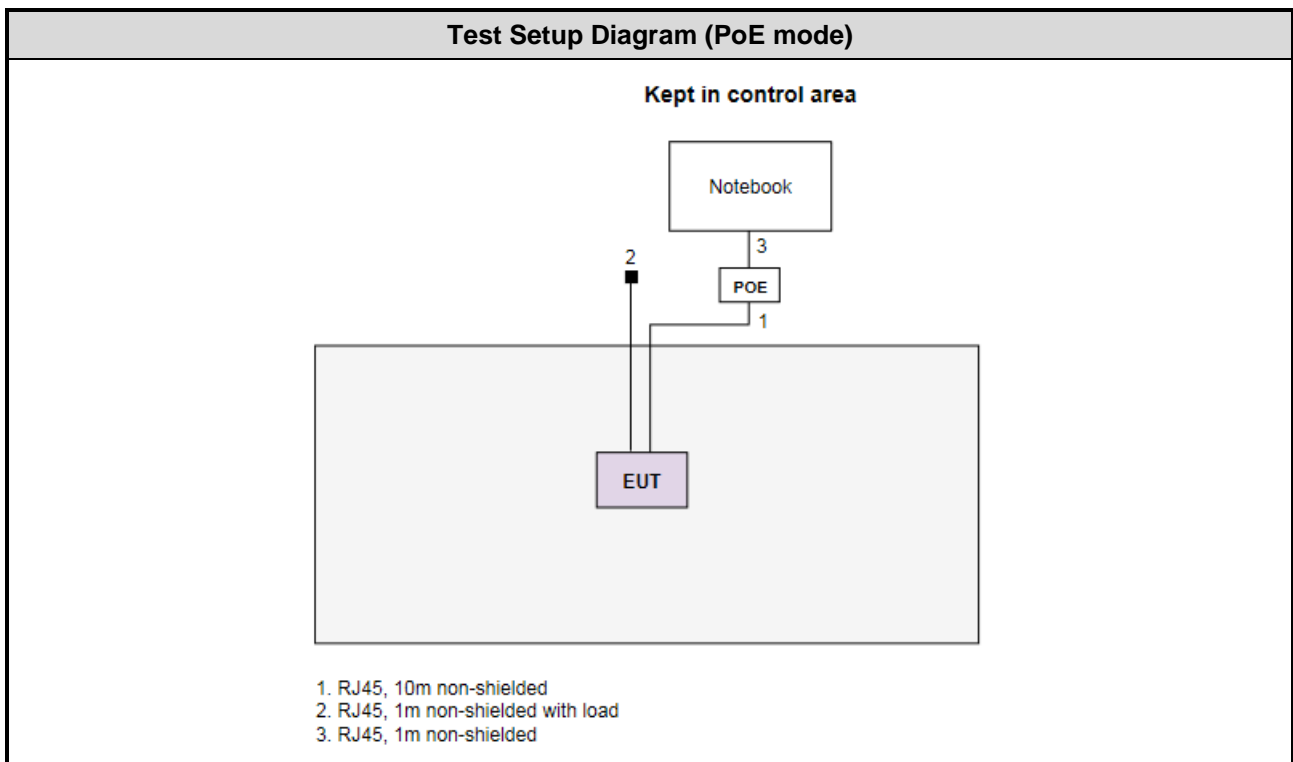
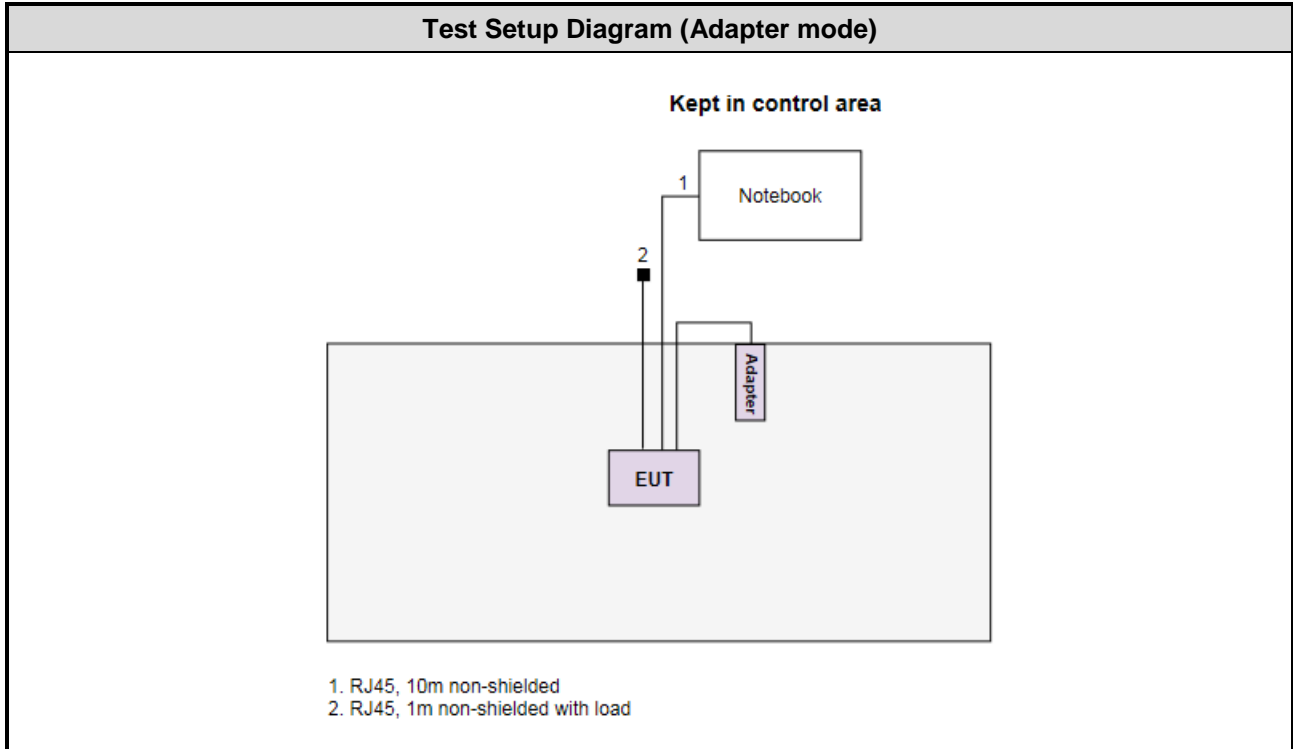
| Support Equipment List | | | | | |
|------------------------|-----------|-------|----------------|---------|---------------------------|
| No. | Equipment | Brand | Model | S/N | Signal cable / Length (m) |
| 1 | Notebook | DELL | Latitude E6430 | 9ZFB4X1 | RJ45, 10m non-shielded. |
| 2 | POE | ZYXEL | GS1900-8HP | --- | --- |

Beamforming mode

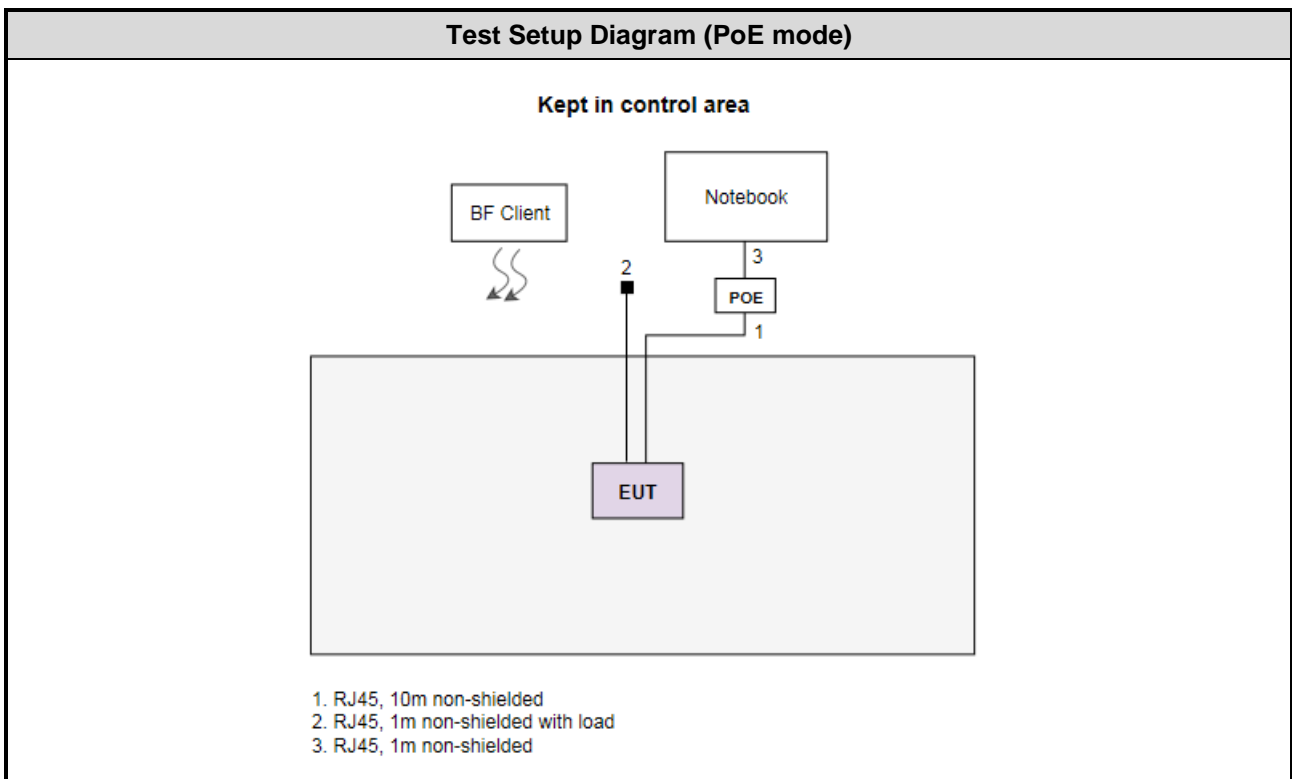
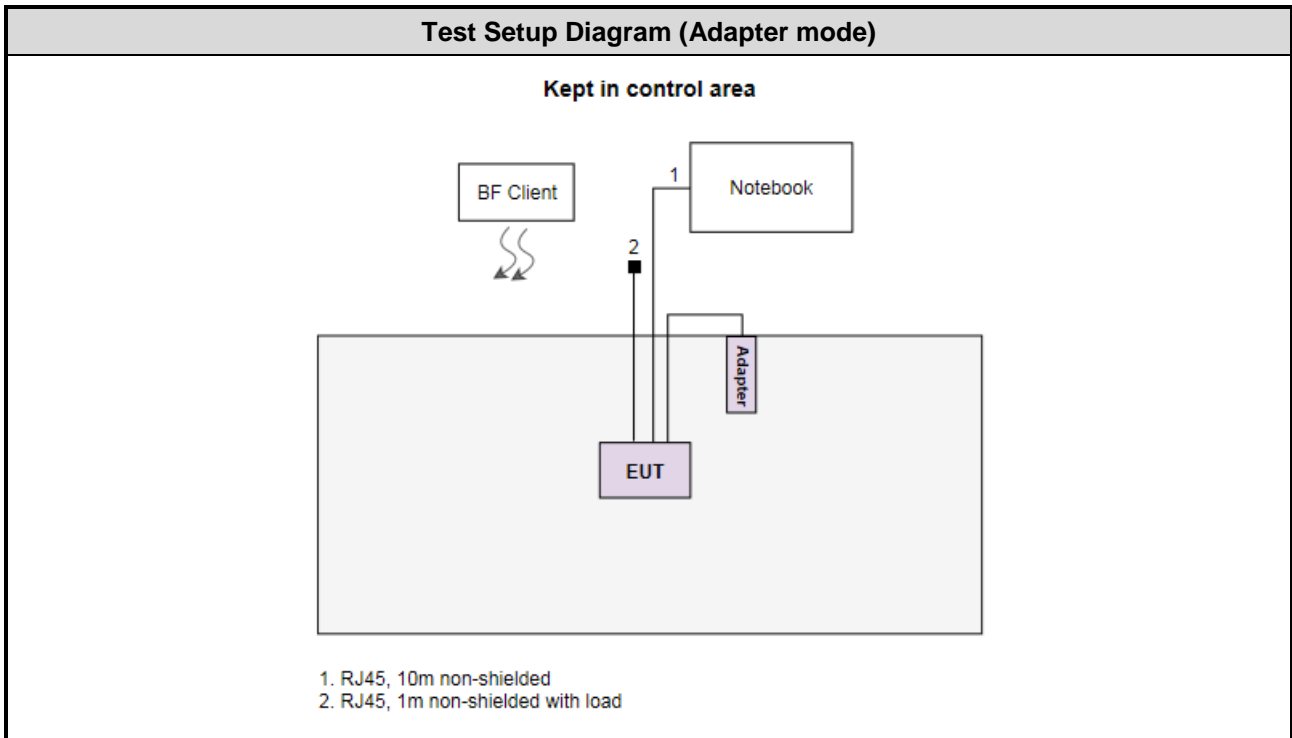
| Support Equipment List | | | | | |
|------------------------|-----------|-------|----------------|---------|---------------------------|
| No. | Equipment | Brand | Model | S/N | Signal cable / Length (m) |
| 1 | Notebook | DELL | Latitude E6430 | 9ZFB4X1 | RJ45, 10m non-shielded. |
| 2 | Client | ASUS | PCE-AC68 | --- | --- |
| 3 | POE | ZYXEL | GS1900-8HP | --- | --- |

1.3 Test Setup Chart

Non-beamforming mode



Beamforming mode



1.4 The Equipment List

| | | | | | |
|---|-------------------------------|----------------------|-------------------|-------------------------|--------------------------|
| Test Item | Conducted Emission | | | | |
| Test Site | Conduction room 1 / (CO01-WS) | | | | |
| Tested Date | Jul. 18, 2017 | | | | |
| Instrument | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Until |
| Receiver | R&S | ESR3 | 101657 | Dec. 21, 2016 | Dec. 20, 2017 |
| LISN | R&S | ENV216 | 101579 | Jan. 19, 2017 | Jan. 18, 2018 |
| RF Cable-CON | EMC | EMCCFD300-BM-BM-6000 | 50821 | Dec. 20, 2016 | Dec. 19, 2017 |
| Measurement Software | AUDIX | e3 | 6.120210k | NA | NA |
| Note: Calibration Interval of instruments listed above is one year. | | | | | |

| | | | | | |
|---|-----------------------------|-------------------|---------------------|-------------------------|--------------------------|
| Test Item | Radiated Emission | | | | |
| Test Site | 966 chamber 3 / (03CH03-WS) | | | | |
| Tested Date | Aug. 22, 2017 | | | | |
| Instrument | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Until |
| Spectrum Analyzer | Agilent | N9010A | MY53400091 | Sep. 09, 2016 | Sep. 08, 2017 |
| Receiver | Agilent | N9038A | MY53290044 | Oct. 06, 2016 | Oct. 05, 2017 |
| Bilog Antenna | SCHWARZBECK | VULB9168 | VULB9168-685 | Apr. 28, 2017 | Apr. 27, 2018 |
| Horn Antenna 1G-18G | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D 1206 | Feb. 09, 2017 | Feb. 08, 2018 |
| Horn Antenna 18G-40G | SCHWARZBECK | BBHA 9170 | BBHA 9170517 | Oct. 25, 2016 | Oct. 24, 2017 |
| Loop Antenna | R&S | HFH2-Z2 | 100330 | Nov. 10, 2016 | Nov. 09, 2017 |
| Loop Antenna Cable | KOAX KABEL | 101354-BW | 101354-BW | Dec. 09, 2016 | Dec. 08, 2017 |
| Preamplifier | EMC | EMC02325 | 980187 | Sep. 08, 2016 | Sep. 07, 2017 |
| Preamplifier | Agilent | 83017A | MY53270014 | Aug. 21, 2017 | Aug. 20, 2018 |
| Preamplifier | EMC | EMC184045B | 980192 | Aug. 24, 2016 | Aug. 23, 2017 |
| RF cable-3M | HUBER+SUHNER | SUCOFLEX104 | MY22620/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| RF cable-8M | HUBER+SUHNER | SUCOFLEX104 | MY22600/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| RF cable-1M | HUBER+SUHNER | SUCOFLEX104 | MY22624/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-0.8M | EMC | EMC8D-NM-NM-800 | EMC8D-NM-NM-800-001 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-3M | EMC | EMC8D-NM-NM-3000 | 131103 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-13M | EMC | EMC8D-NM-NM-13000 | 131104 | Feb. 04, 2017 | Feb. 03, 2018 |
| Measurement Software | AUDIX | e3 | 6.120210g | NA | NA |
| Note: Calibration Interval of instruments listed above is one year. | | | | | |

| | | | | | |
|---|-----------------------------|-------------------|---------------------|-------------------------|--------------------------|
| Test Item | Radiated Emission | | | | |
| Test Site | 966 chamber 3 / (03CH03-WS) | | | | |
| Tested Date | Aug. 31, 2017 | | | | |
| Instrument | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Until |
| Spectrum Analyzer | Agilent | N9010A | MY53400091 | Sep. 09, 2016 | Sep. 08, 2017 |
| Receiver | Agilent | N9038A | MY53290044 | Oct. 06, 2016 | Oct. 05, 2017 |
| Bilog Antenna | SCHWARZBECK | VULB9168 | VULB9168-685 | Apr. 28, 2017 | Apr. 27, 2018 |
| Horn Antenna 1G-18G | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D 1206 | Feb. 09, 2017 | Feb. 08, 2018 |
| Horn Antenna 18G-40G | SCHWARZBECK | BBHA 9170 | BBHA 9170517 | Oct. 25, 2016 | Oct. 24, 2017 |
| Loop Antenna | R&S | HFH2-Z2 | 100330 | Nov. 10, 2016 | Nov. 09, 2017 |
| Loop Antenna Cable | KOAX KABEL | 101354-BW | 101354-BW | Dec. 09, 2016 | Dec. 08, 2017 |
| Preamplifier | EMC | EMC02325 | 980187 | Sep. 08, 2016 | Sep. 07, 2017 |
| Preamplifier | Agilent | 83017A | MY53270014 | Aug. 21, 2017 | Aug. 20, 2018 |
| Preamplifier | EMC | EMC184045B | 980192 | Aug. 22, 2017 | Aug. 21, 2018 |
| RF cable-3M | HUBER+SUHNER | SUCOFLEX104 | MY22620/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| RF cable-8M | HUBER+SUHNER | SUCOFLEX104 | MY22600/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| RF cable-1M | HUBER+SUHNER | SUCOFLEX104 | MY22624/4 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-0.8M | EMC | EMC8D-NM-NM-800 | EMC8D-NM-NM-800-001 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-3M | EMC | EMC8D-NM-NM-3000 | 131103 | Feb. 04, 2017 | Feb. 03, 2018 |
| LF cable-13M | EMC | EMC8D-NM-NM-13000 | 131104 | Feb. 04, 2017 | Feb. 03, 2018 |
| Measurement Software | AUDIX | e3 | 6.120210g | NA | NA |
| Note: Calibration Interval of instruments listed above is one year. | | | | | |

| | | | | | |
|---|-------------------------|------------------|-------------------|-------------------------|--------------------------|
| Test Item | RF Conducted | | | | |
| Test Site | (TH01-WS) | | | | |
| Tested Date | Sep. 05 ~ Sep. 08, 2017 | | | | |
| Instrument | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Until |
| Spectrum Analyzer | R&S | FSV40 | 101063 | Mar. 15, 2017 | Mar. 14, 2018 |
| TEMP&HUMIDITY CHAMBER | GIANT FORCE | GCT-225-40-SP-SD | MAF1212-002 | Nov. 21, 2016 | Nov. 20, 2017 |
| Power Meter | Anritsu | ML2495A | 1241002 | Oct. 06, 2016 | Oct. 05, 2017 |
| Power Sensor | Anritsu | MA2411B | 1207366 | Oct. 06, 2016 | Oct. 05, 2017 |
| AC POWER SOURCE | APC | AFC-500W | F312060012 | Oct. 28, 2016 | Oct. 27, 2017 |
| 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.

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04

FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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 |
| Bandwidth | ± 34.134 Hz |
| Conducted power | ± 0.808 dB |
| Frequency error | ± 34.134 Hz |
| Power density | ± 0.463 dB |
| Conducted emission | ± 2.670 dB |
| AC conducted emission | ± 2.90 dB |
| Radiated emission ≤ 1 GHz | ± 3.66 dB |
| Radiated emission > 1 GHz | ± 5.37 dB |
| Time | $\pm 0.1\%$ |
| Temperature | ± 0.6 °C |

2 Test Configuration

2.1 Testing Condition

| Test Item | Test Site | Ambient Condition | Tested By |
|--------------------|-----------|-------------------|------------|
| AC Conduction | CO01-WS | 24°C / 57% | Alex Tsai |
| Radiated Emissions | 03CH03-WS | 24°C / 66% | Brad Wu |
| RF Conducted | TH01-WS | 22°C / 63% | Felix Sung |

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- IC site registration No.: 10807C-2

2.2 The Worst Test Modes and Channel Details

Non-beamforming mode

| For Frequency band 5250-5350 MHz, 5470-5725 MHz | | | | |
|---|-----------------|---|-----------|--------------------|
| Test item | Modulation Mode | Test Frequency (MHz) | Data Rate | Test Configuration |
| Conducted Emissions | VHT80 | 5690 | MCS 0 | 1, 2 |
| Radiated Emissions ≤1GHz | VHT80 | 5690 | MCS 0 | 1, 2 |
| RF Output Power | 11a | 5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720 | 6 Mbps | 1 |
| | HT20 / VHT20 | 5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720 | MCS 0 | |
| | HT40 / VHT40 | 5270 / 5310 5510 / 5590 / 5670 / 5710 | MCS 0 | |
| | VHT80 | 5290 / 5530 / 5610 / 5690 | MCS 0 | |
| Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density | 11a | 5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720 | 6 Mbps | 1 |
| | VHT20 | 5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720 | MCS 0 | |
| | VHT40 | 5270 / 5310 5510 / 5590 / 5670 / 5710 | MCS 0 | |
| | VHT80 | 5290 / 5530 / 5610 / 5690 | MCS 0 | |
| Frequency Stability | Un-modulation | 5580 | --- | 1 |

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.
2. This device can be powered by **AC adapter** or **POE**. Each power supply was selected for final testing as below configuration.
 - 1) Test configuration 1: POE mode
 - 2) Test configuration 2: Adapter mode

Beamforming mode

| For Frequency band 5250-5350 MHz, 5470-5725 MHz | | | | |
|--|-----------------|---|-----------|--------------------|
| Test item | Modulation Mode | Test Frequency (MHz) | Data Rate | Test Configuration |
| Conducted Emissions | VHT40 | 5670 | MCS 0 | 1, 2 |
| Radiated Emissions ≤1GHz | VHT40 | 5670 | MCS 0 | 1, 2 |
| RF Output Power | HT20 / VHT20 | 5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720 | MCS 0 | 1 |
| | HT40 / VHT40 | 5270 / 5310 5510 / 5590 / 5670 / 5710 | MCS 0 | |
| | VHT80 | 5290 / 5530 / 5610 / 5690 | MCS 0 | |
| Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density | VHT20 | 5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720 | MCS 0 | 1 |
| | VHT40 | 5270 / 5310 5510 / 5590 / 5670 / 5710 | MCS 0 | |
| | VHT80 | 5290 / 5530 / 5610 / 5690 | MCS 0 | |
| NOTE: | | | | |
| 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report. | | | | |
| 2. This device can be powered by AC adapter or POE . Each power supply was selected for final testing as below configuration. | | | | |
| 1) Test configuration 1: POE mode | | | | |
| 2) Test configuration 2: Adapter mode | | | | |

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 Ω 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



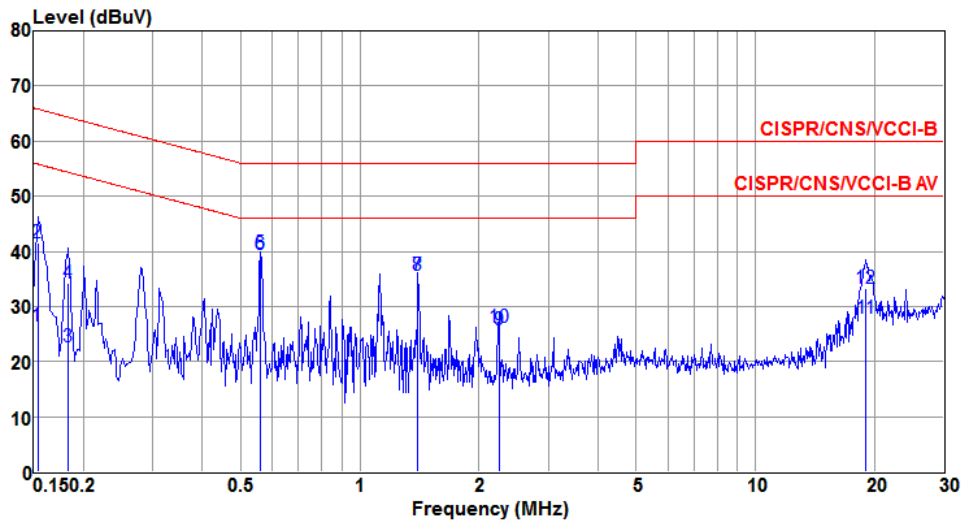
Note: 1. Support units were connected to second LISN.

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

Non- beamforming mode

| | | | |
|-------------|-------|--------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5690 |
| Power Phase | Line | Test configuration | 1 |

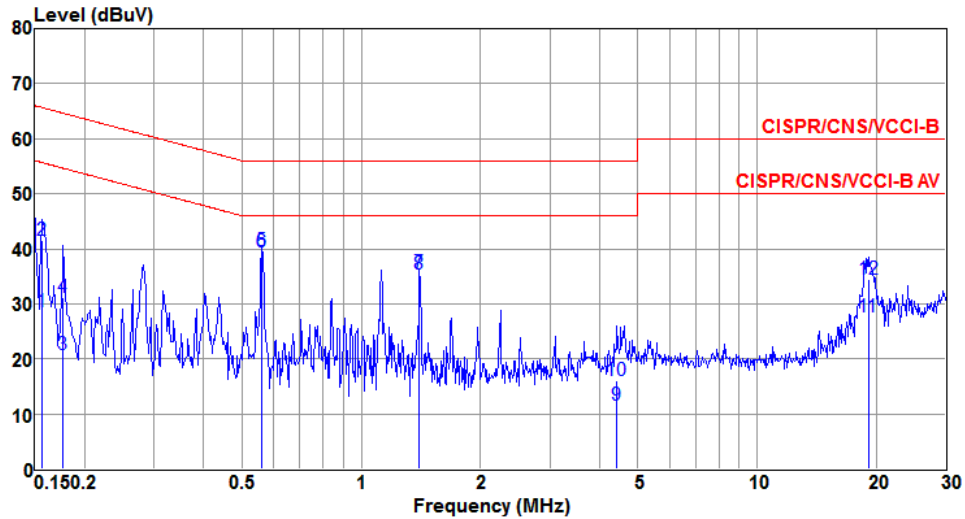


| | Freq MHz | Level dBUV | Limit Line dBUV | Over Limit dB | Read Level dBUV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.153 | 26.55 | 55.82 | -29.27 | 17.01 | 9.50 | 0.04 | Average |
| 2 | 0.153 | 41.48 | 65.82 | -24.34 | 31.94 | 9.50 | 0.04 | QP |
| 3 | 0.183 | 22.78 | 54.33 | -31.55 | 13.24 | 9.50 | 0.04 | Average |
| 4 | 0.183 | 34.31 | 64.33 | -30.02 | 24.77 | 9.50 | 0.04 | QP |
| 5@ | 0.561 | 39.59 | 46.00 | -6.41 | 30.00 | 9.55 | 0.04 | Average |
| 6 | 0.561 | 39.32 | 56.00 | -16.68 | 29.73 | 9.55 | 0.04 | QP |
| 7 | 1.403 | 35.59 | 46.00 | -10.41 | 26.00 | 9.55 | 0.04 | Average |
| 8 | 1.403 | 35.57 | 56.00 | -20.43 | 25.98 | 9.55 | 0.04 | QP |
| 9 | 2.249 | 25.69 | 46.00 | -20.31 | 16.02 | 9.61 | 0.06 | Average |
| 10 | 2.249 | 26.17 | 56.00 | -29.83 | 16.50 | 9.61 | 0.06 | QP |
| 11 | 19.021 | 27.90 | 50.00 | -22.10 | 17.94 | 9.71 | 0.25 | Average |
| 12 | 19.021 | 33.24 | 60.00 | -26.76 | 23.28 | 9.71 | 0.25 | QP |

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

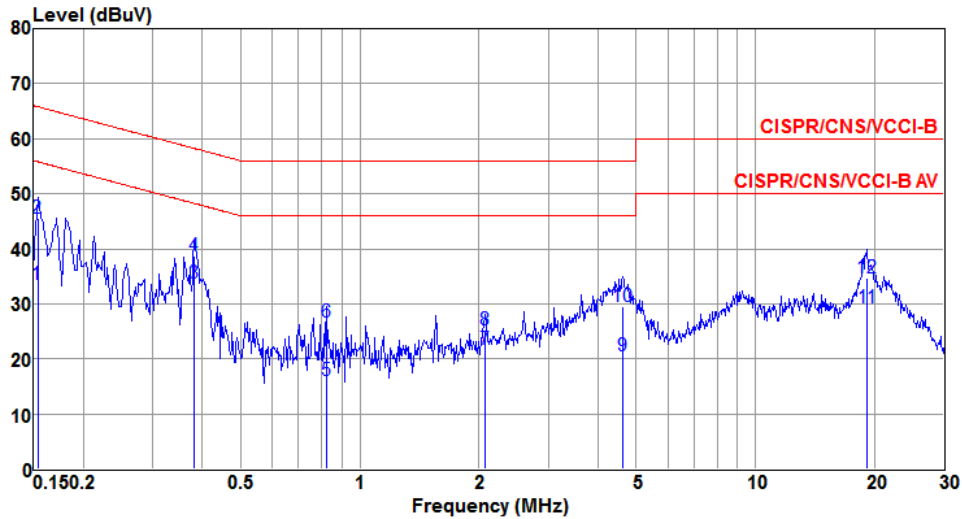
| | | | |
|--------------------|---------|---------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5690 |
| Power Phase | Neutral | Test configuration | 1 |



| | Freq | Level | Limit | Over | Read | LISN | cable | |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
| | MHz | dBuV | Line | Limit | Level | factor | loss | Remark |
| | | | dBuV | dB | dBuV | dB | dB | |
| 1 | 0.156 | 28.46 | 55.69 | -27.23 | 18.84 | 9.58 | 0.04 | Average |
| 2 | 0.156 | 41.54 | 65.69 | -24.15 | 31.92 | 9.58 | 0.04 | QP |
| 3 | 0.177 | 20.69 | 54.64 | -33.95 | 11.06 | 9.59 | 0.04 | Average |
| 4 | 0.177 | 31.12 | 64.64 | -33.52 | 21.49 | 9.59 | 0.04 | QP |
| 5@ | 0.561 | 39.61 | 46.00 | -6.39 | 29.98 | 9.59 | 0.04 | Average |
| 6 | 0.561 | 39.37 | 56.00 | -16.63 | 29.74 | 9.59 | 0.04 | QP |
| 7 | 1.403 | 35.56 | 46.00 | -10.44 | 25.92 | 9.60 | 0.04 | Average |
| 8 | 1.403 | 35.50 | 56.00 | -20.50 | 25.86 | 9.60 | 0.04 | QP |
| 9 | 4.430 | 11.66 | 46.00 | -34.34 | 1.78 | 9.71 | 0.17 | Average |
| 10 | 4.430 | 16.11 | 56.00 | -39.89 | 6.23 | 9.71 | 0.17 | QP |
| 11 | 19.122 | 27.74 | 50.00 | -22.26 | 17.77 | 9.72 | 0.25 | Average |
| 12 | 19.122 | 34.36 | 60.00 | -25.64 | 24.39 | 9.72 | 0.25 | QP |

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

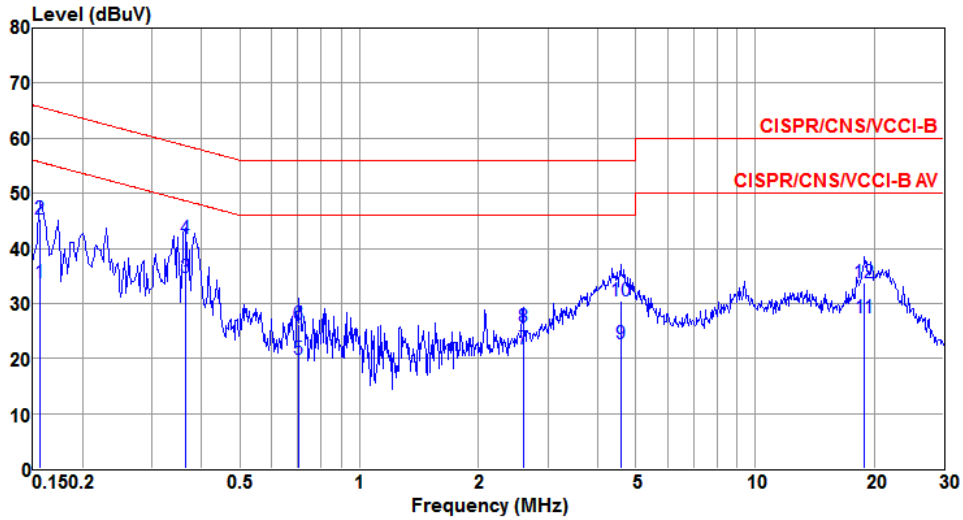
| | | | |
|--------------------|-------|---------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5690 |
| Power Phase | Line | Test configuration | 2 |



| | Freq MHz | Level dBuV | Limit Line dBuV | Over Limit dB | Read Level dBuV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.153 | 33.57 | 55.82 | -22.25 | 24.03 | 9.50 | 0.04 | Average |
| 2 | 0.153 | 45.51 | 65.82 | -20.31 | 35.97 | 9.50 | 0.04 | QP |
| 3 | 0.381 | 33.75 | 48.25 | -14.50 | 24.12 | 9.59 | 0.04 | Average |
| 4 | 0.381 | 38.65 | 58.25 | -19.60 | 29.02 | 9.59 | 0.04 | QP |
| 5 | 0.822 | 16.03 | 46.00 | -29.97 | 6.50 | 9.49 | 0.04 | Average |
| 6 | 0.822 | 26.74 | 56.00 | -29.26 | 17.21 | 9.49 | 0.04 | QP |
| 7 | 2.077 | 21.72 | 46.00 | -24.28 | 12.04 | 9.63 | 0.05 | Average |
| 8 | 2.077 | 25.37 | 56.00 | -30.63 | 15.69 | 9.63 | 0.05 | QP |
| 9 | 4.622 | 20.47 | 46.00 | -25.53 | 10.79 | 9.51 | 0.17 | Average |
| 10 | 4.622 | 29.48 | 56.00 | -26.52 | 19.80 | 9.51 | 0.17 | QP |
| 11 | 19.224 | 29.32 | 50.00 | -20.68 | 19.35 | 9.71 | 0.26 | Average |
| 12 | 19.224 | 34.60 | 60.00 | -25.40 | 24.63 | 9.71 | 0.26 | QP |

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

| | | | |
|--------------------|---------|---------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5690 |
| Power Phase | Neutral | Test configuration | 2 |

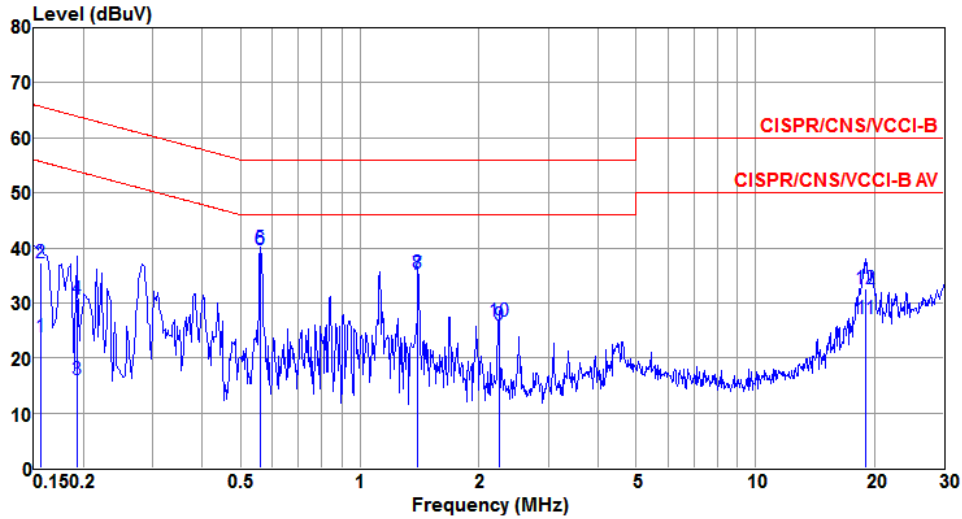


| | Freq MHz | Level dBuV | Limit Line dBuV | Over Limit dB | Read Level dBuV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.156 | 33.78 | 55.69 | -21.91 | 24.16 | 9.58 | 0.04 | Average |
| 2 | 0.156 | 45.32 | 65.69 | -20.37 | 35.70 | 9.58 | 0.04 | QP |
| 3@ | 0.363 | 34.63 | 48.65 | -14.02 | 25.04 | 9.55 | 0.04 | Average |
| 4 | 0.363 | 41.77 | 58.65 | -16.88 | 32.18 | 9.55 | 0.04 | QP |
| 5 | 0.705 | 19.91 | 46.00 | -26.09 | 10.25 | 9.62 | 0.04 | Average |
| 6 | 0.705 | 26.12 | 56.00 | -29.88 | 16.46 | 9.62 | 0.04 | QP |
| 7 | 2.594 | 21.69 | 46.00 | -24.31 | 12.02 | 9.59 | 0.08 | Average |
| 8 | 2.594 | 25.76 | 56.00 | -30.24 | 16.09 | 9.59 | 0.08 | QP |
| 9 | 4.574 | 22.61 | 46.00 | -23.39 | 12.73 | 9.71 | 0.17 | Average |
| 10 | 4.574 | 30.47 | 56.00 | -25.53 | 20.59 | 9.71 | 0.17 | QP |
| 11 | 18.920 | 27.36 | 50.00 | -22.64 | 17.40 | 9.71 | 0.25 | Average |
| 12 | 18.920 | 33.82 | 60.00 | -26.18 | 23.86 | 9.71 | 0.25 | QP |

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

Beamforming mode

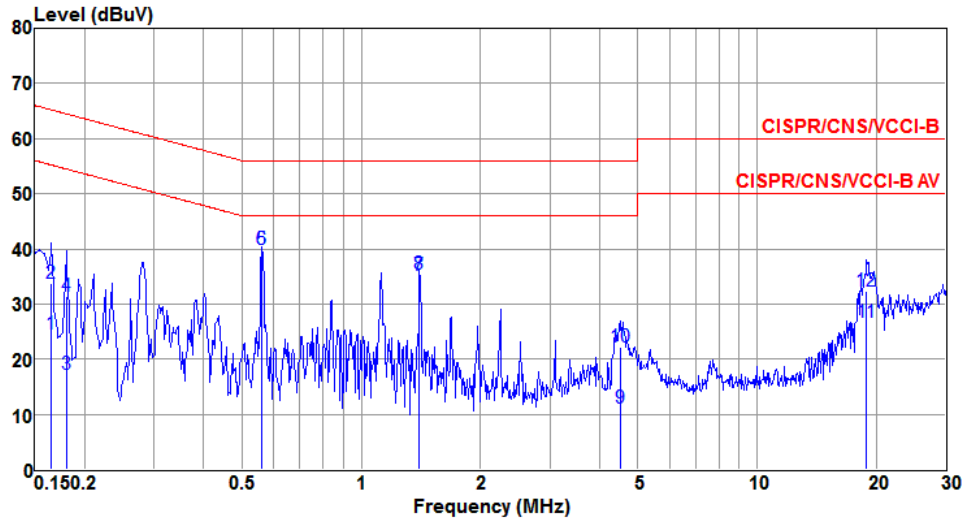
| | | | |
|-------------|-------|--------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5670 |
| Power Phase | Line | Test configuration | 1 |



| | Freq MHz | Level dBuV | Limit Line dBuV | Over Limit dB | Read Level dBuV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.156 | 23.86 | 55.69 | -31.83 | 14.32 | 9.50 | 0.04 | Average |
| 2 | 0.156 | 37.29 | 65.69 | -28.40 | 27.75 | 9.50 | 0.04 | QP |
| 3 | 0.192 | 16.07 | 53.93 | -37.86 | 6.53 | 9.50 | 0.04 | Average |
| 4 | 0.192 | 30.58 | 63.93 | -33.35 | 21.04 | 9.50 | 0.04 | QP |
| 5 | 0.561 | 39.93 | 46.00 | -6.07 | 30.34 | 9.55 | 0.04 | Average |
| 6 | 0.561 | 39.76 | 56.00 | -16.24 | 30.17 | 9.55 | 0.04 | QP |
| 7 | 1.403 | 35.25 | 46.00 | -10.75 | 25.66 | 9.55 | 0.04 | Average |
| 8 | 1.403 | 35.38 | 56.00 | -20.62 | 25.79 | 9.55 | 0.04 | QP |
| 9 | 2.249 | 25.85 | 46.00 | -20.15 | 16.18 | 9.61 | 0.06 | Average |
| 10 | 2.249 | 26.78 | 56.00 | -29.22 | 17.11 | 9.61 | 0.06 | QP |
| 11 | 19.021 | 27.07 | 50.00 | -22.93 | 17.11 | 9.71 | 0.25 | Average |
| 12 | 19.021 | 32.48 | 60.00 | -27.52 | 22.52 | 9.71 | 0.25 | QP |

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

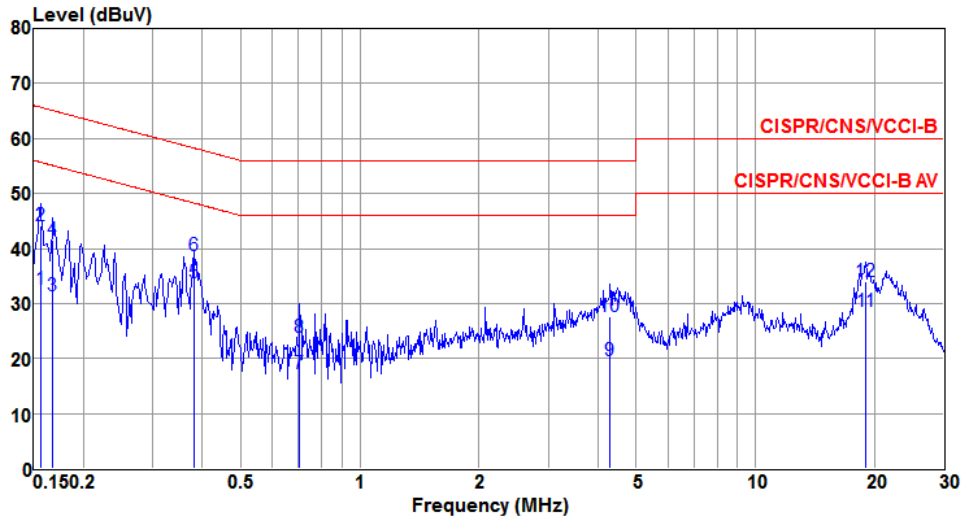
| | | | |
|--------------------|---------|---------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5670 |
| Power Phase | Neutral | Test configuration | 1 |



| | Freq MHz | Level dBuV | Limit Line dBuV | Over Limit dB | Read Level dBuV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.165 | 24.51 | 55.21 | -30.70 | 14.88 | 9.59 | 0.04 | Average |
| 2 | 0.165 | 33.81 | 65.21 | -31.40 | 24.18 | 9.59 | 0.04 | QP |
| 3 | 0.180 | 17.30 | 54.50 | -37.20 | 7.67 | 9.59 | 0.04 | Average |
| 4 | 0.180 | 31.33 | 64.50 | -33.17 | 21.70 | 9.59 | 0.04 | QP |
| 5 | 0.561 | 39.96 | 46.00 | -6.04 | 30.33 | 9.59 | 0.04 | Average |
| 6 | 0.561 | 39.83 | 56.00 | -16.17 | 30.20 | 9.59 | 0.04 | QP |
| 7 | 1.403 | 35.26 | 46.00 | -10.74 | 25.62 | 9.60 | 0.04 | Average |
| 8 | 1.403 | 35.34 | 56.00 | -20.66 | 25.70 | 9.60 | 0.04 | QP |
| 9 | 4.501 | 11.00 | 46.00 | -35.00 | 1.12 | 9.71 | 0.17 | Average |
| 10 | 4.501 | 22.10 | 56.00 | -33.90 | 12.22 | 9.71 | 0.17 | QP |
| 11 | 18.920 | 26.71 | 50.00 | -23.29 | 16.75 | 9.71 | 0.25 | Average |
| 12 | 18.920 | 32.33 | 60.00 | -27.67 | 22.37 | 9.71 | 0.25 | QP |

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

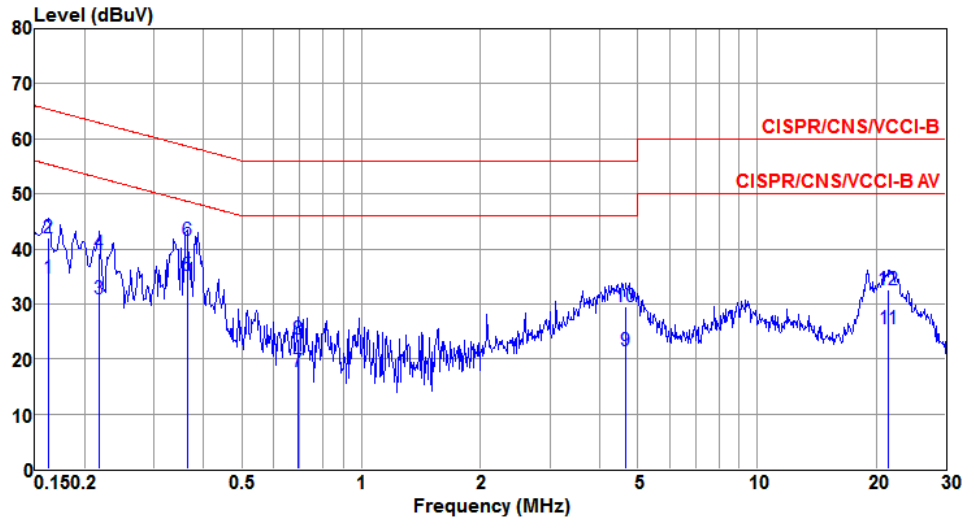
| | | | |
|--------------------|-------|---------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5670 |
| Power Phase | Line | Test configuration | 2 |



| | Freq MHz | Level dBUV | Limit Line dBUV | Over Limit dB | Read Level dBUV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.156 | 32.53 | 55.69 | -23.16 | 22.99 | 9.50 | 0.04 | Average |
| 2 | 0.156 | 44.03 | 65.69 | -21.66 | 34.49 | 9.50 | 0.04 | QP |
| 3 | 0.168 | 31.50 | 55.08 | -23.58 | 21.96 | 9.50 | 0.04 | Average |
| 4 | 0.168 | 41.66 | 65.08 | -23.42 | 32.12 | 9.50 | 0.04 | QP |
| 5@ | 0.381 | 33.75 | 48.25 | -14.50 | 24.12 | 9.59 | 0.04 | Average |
| 6 | 0.381 | 38.65 | 58.25 | -19.60 | 29.02 | 9.59 | 0.04 | QP |
| 7 | 0.705 | 17.29 | 46.00 | -28.71 | 7.74 | 9.51 | 0.04 | Average |
| 8 | 0.705 | 23.94 | 56.00 | -32.06 | 14.39 | 9.51 | 0.04 | QP |
| 9 | 4.292 | 19.57 | 46.00 | -26.43 | 9.92 | 9.49 | 0.16 | Average |
| 10 | 4.292 | 27.62 | 56.00 | -28.38 | 17.97 | 9.49 | 0.16 | QP |
| 11 | 19.021 | 28.47 | 50.00 | -21.53 | 18.51 | 9.71 | 0.25 | Average |
| 12 | 19.021 | 34.06 | 60.00 | -25.94 | 24.10 | 9.71 | 0.25 | QP |

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

| | | | |
|--------------------|---------|---------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5670 |
| Power Phase | Neutral | Test configuration | 2 |



| | Freq MHz | Level dBUV | Limit Line dBUV | Over Limit dB | Read Level dBUV | LISN factor dB | cable loss dB | Remark |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1 | 0.162 | 34.73 | 55.34 | -20.61 | 25.10 | 9.59 | 0.04 | Average |
| 2 | 0.162 | 42.04 | 65.34 | -23.30 | 32.41 | 9.59 | 0.04 | QP |
| 3 | 0.219 | 30.89 | 52.88 | -21.99 | 21.26 | 9.59 | 0.04 | Average |
| 4 | 0.219 | 39.29 | 62.88 | -23.59 | 29.66 | 9.59 | 0.04 | QP |
| 5 | 0.363 | 35.24 | 48.65 | -13.41 | 25.65 | 9.55 | 0.04 | Average |
| 6 | 0.363 | 41.65 | 58.65 | -17.00 | 32.06 | 9.55 | 0.04 | QP |
| 7 | 0.690 | 17.64 | 46.00 | -28.36 | 7.98 | 9.62 | 0.04 | Average |
| 8 | 0.690 | 23.63 | 56.00 | -32.37 | 13.97 | 9.62 | 0.04 | QP |
| 9 | 4.647 | 21.53 | 46.00 | -24.47 | 11.65 | 9.71 | 0.17 | Average |
| 10 | 4.647 | 29.58 | 56.00 | -26.42 | 19.70 | 9.71 | 0.17 | QP |
| 11 | 21.486 | 25.43 | 50.00 | -24.57 | 15.42 | 9.74 | 0.27 | Average |
| 12 | 21.486 | 32.47 | 60.00 | -27.53 | 22.46 | 9.74 | 0.27 | QP |

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

3.2 Emission Bandwidth

3.2.1 Test Procedures

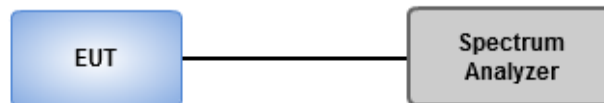
26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

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

3.2.2 Test Setup

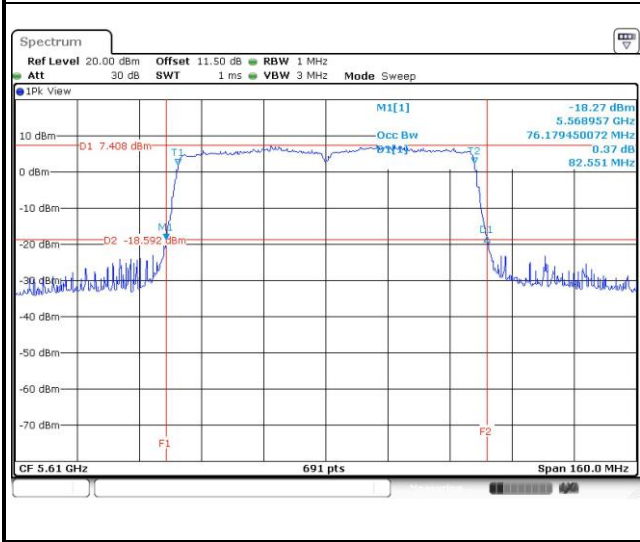


3.2.3 Test Result of Emission Bandwidth

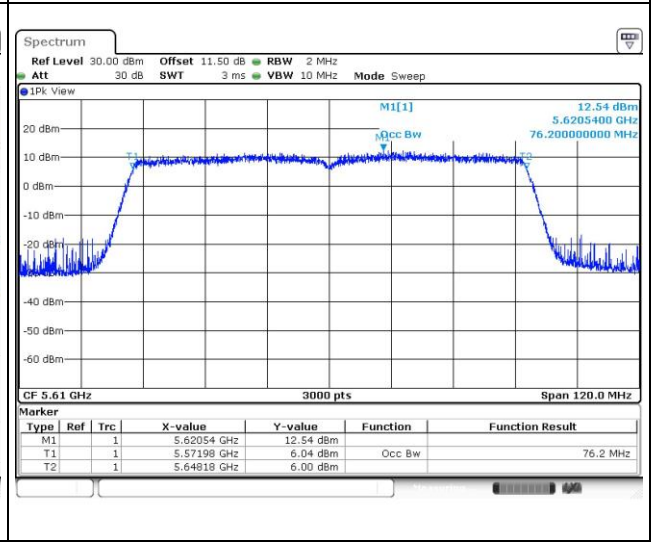
Non-beamforming mode

| Emission Bandwidth | | | | | | | | | | | |
|--------------------|-----------------|-------------|----------------------|---------|---------|---------|---------------------|---------|---------|---------|-------------------|
| Mode | N _{TX} | Freq. (MHz) | 26dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | Power Limit (dBm) |
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Chain 0 | Chain 1 | Chain 2 | Chain 3 | |
| 11a | 3 | 5260 | 21.57 | 21.57 | 21.51 | --- | 17.03 | 16.91 | 16.93 | --- | 24.00 |
| 11a | 3 | 5300 | 21.62 | 21.51 | 21.51 | --- | 16.90 | 16.92 | 17.06 | --- | 24.00 |
| 11a | 3 | 5320 | 21.57 | 21.51 | 21.51 | --- | 17.01 | 16.91 | 16.95 | --- | 24.00 |
| VHT20 | 3 | 5260 | 21.97 | 21.68 | 21.74 | --- | 18.12 | 17.93 | 17.98 | --- | 24.00 |
| VHT20 | 3 | 5300 | 21.86 | 21.45 | 21.62 | --- | 18.15 | 17.94 | 17.95 | --- | 24.00 |
| VHT20 | 3 | 5320 | 21.86 | 21.68 | 21.68 | --- | 18.14 | 17.92 | 17.98 | --- | 24.00 |
| VHT40 | 3 | 5270 | 40.93 | 40.70 | 40.58 | --- | 36.68 | 36.60 | 36.58 | --- | 24.00 |
| VHT40 | 3 | 5310 | 40.93 | 40.58 | 40.46 | --- | 36.68 | 36.60 | 36.64 | --- | 24.00 |
| VHT80 | 3 | 5290 | 82.32 | 81.86 | 81.62 | --- | 76.20 | 76.00 | 76.04 | --- | 24.00 |
| 11a | 3 | 5500 | 21.57 | 21.45 | 21.45 | --- | 17.04 | 16.89 | 16.89 | --- | 24.00 |
| 11a | 3 | 5580 | 21.57 | 21.57 | 21.51 | --- | 17.05 | 16.93 | 16.92 | --- | 24.00 |
| 11a | 3 | 5700 | 21.57 | 21.39 | 21.45 | --- | 17.04 | 16.89 | 16.89 | --- | 24.00 |
| VHT20 | 3 | 5500 | 21.91 | 21.62 | 21.57 | --- | 18.14 | 17.92 | 17.96 | --- | 24.00 |
| VHT20 | 3 | 5580 | 21.97 | 21.68 | 21.68 | --- | 18.14 | 17.92 | 17.96 | --- | 24.00 |
| VHT20 | 3 | 5700 | 22.03 | 21.74 | 21.51 | --- | 18.14 | 17.93 | 17.99 | --- | 24.00 |
| VHT40 | 3 | 5510 | 40.93 | 40.81 | 40.58 | --- | 36.70 | 36.64 | 36.60 | --- | 24.00 |
| VHT40 | 3 | 5590 | 55.65 | 60.41 | 41.62 | --- | 36.80 | 36.66 | 36.62 | --- | 24.00 |
| VHT40 | 3 | 5670 | 60.64 | 58.20 | 40.70 | --- | 36.70 | 36.62 | 36.54 | --- | 24.00 |
| VHT80 | 3 | 5530 | 82.09 | 82.09 | 81.39 | --- | 76.12 | 76.00 | 76.08 | --- | 24.00 |
| VHT80 | 3 | 5610 | 82.55 | 81.86 | 81.62 | --- | 76.20 | 76.04 | 76.04 | --- | 24.00 |

Worst Plot of 26dB Bandwidth



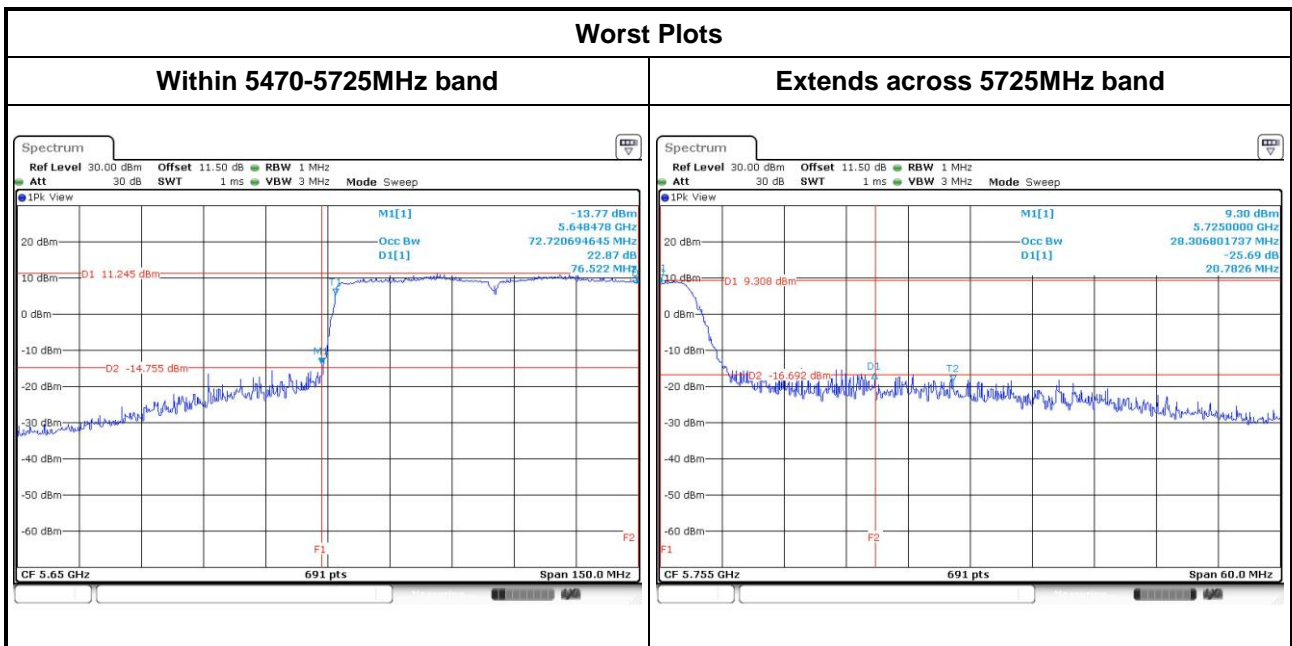
Worst Plot of 99% Bandwidth



Channel that extends across the 5.725 GHz boundary

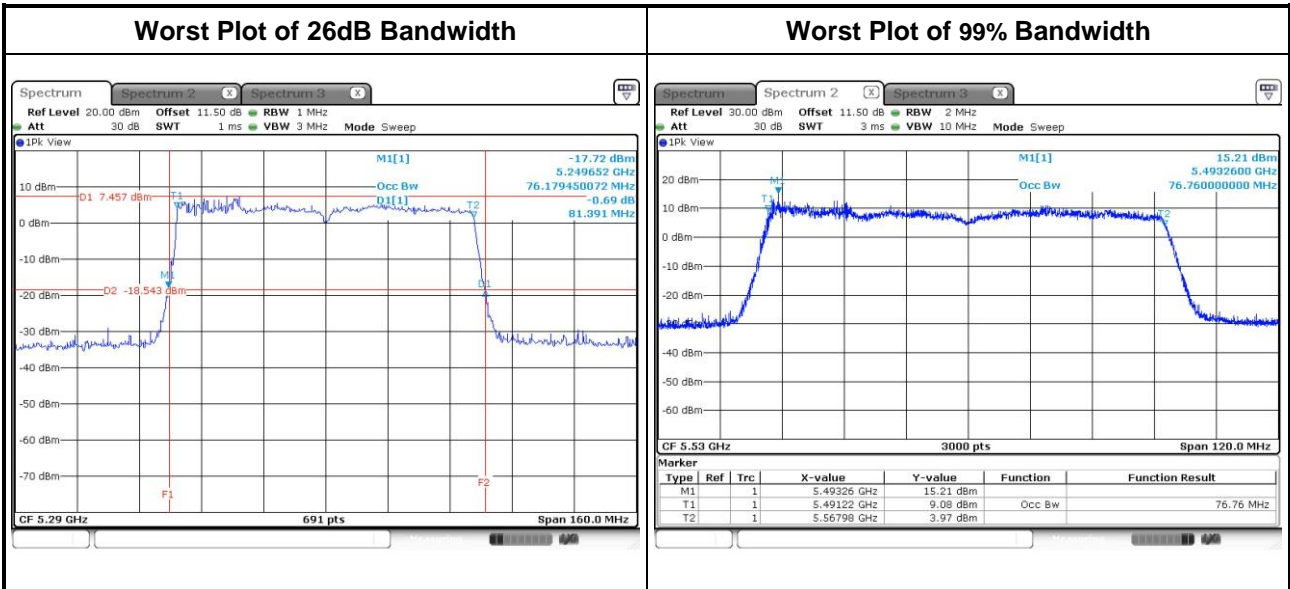
| UNII Emission Bandwidth Result (Within 5470-5725MHz band) | | | | | | | | | | | |
|---|-----------------|-------------|----------------------|---------|---------|---------|---------------------|---------|---------|---------|-------------------|
| Mode | N _{TX} | Freq. (MHz) | 26dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | Power Limit (dBm) |
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Chain 0 | Chain 1 | Chain 2 | Chain 3 | |
| 11a | 3 | 5720 | 15.77 | 15.71 | 15.64 | --- | 13.60 | 13.47 | 13.45 | --- | 22.94 |
| VHT20 | 3 | 5720 | 15.89 | 15.83 | 15.83 | --- | 14.15 | 14.01 | 14.04 | --- | 22.99 |
| VHT40 | 3 | 5710 | 47.38 | 45.04 | 35.30 | --- | 33.39 | 33.35 | 33.35 | --- | 24.00 |
| VHT80 | 3 | 5690 | 76.52 | 75.87 | 75.65 | --- | 73.06 | 73.06 | 73.06 | --- | 24.00 |

| UNII Emission Bandwidth Result (Extends across 5725MHz band) | | | | | | | | | | | |
|--|-----------------|-------------|----------------------|---------|---------|---------|---------------------|---------|---------|---------|-------------------|
| Mode | N _{TX} | Freq. (MHz) | 26dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | Power Limit (dBm) |
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Chain 0 | Chain 1 | Chain 2 | Chain 3 | |
| 11a | 3 | 5720 | 5.78 | 5.91 | 5.89 | --- | 3.47 | 3.44 | 3.45 | --- | 22.94 |
| VHT20 | 3 | 5720 | 6.02 | 5.67 | 5.85 | --- | 4.04 | 3.92 | 3.92 | --- | 22.99 |
| VHT40 | 3 | 5710 | 19.30 | 19.07 | 8.29 | --- | 3.33 | 3.27 | 3.25 | --- | 24.00 |
| VHT80 | 3 | 5690 | 20.78 | 16.09 | 6.52 | --- | 3.10 | 3.06 | 3.02 | --- | 24.00 |



Beamforming mode

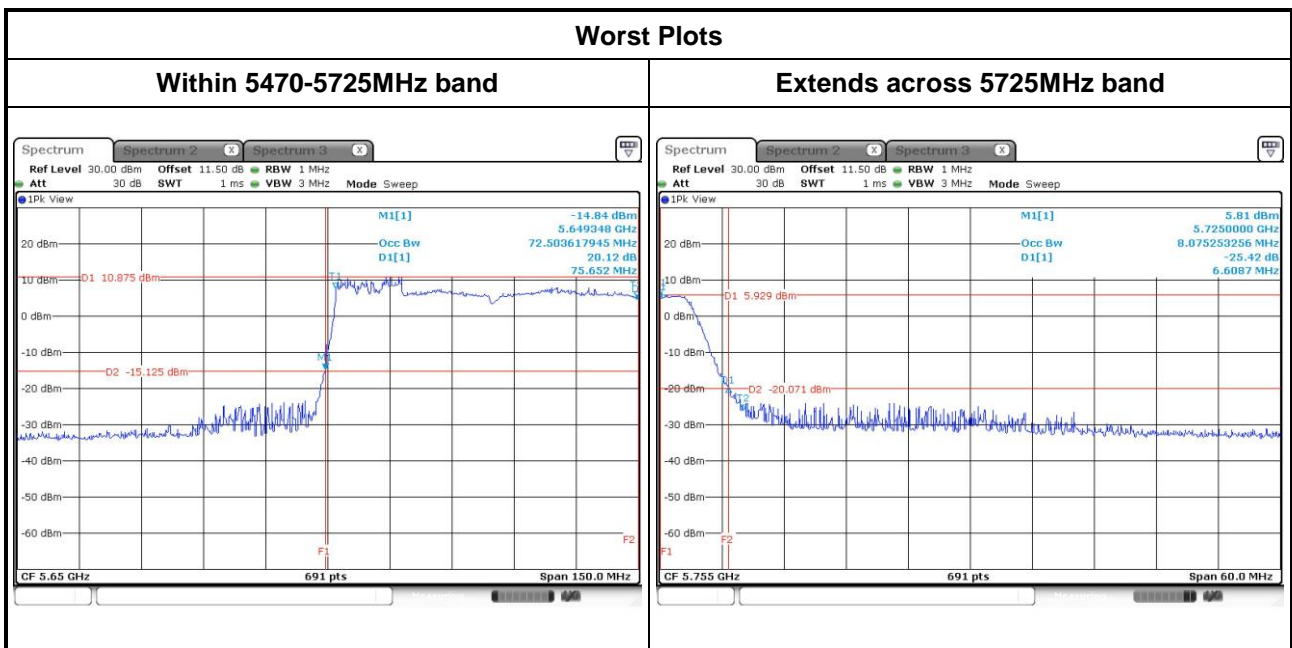
| Emission Bandwidth | | | | | | | | | | | |
|--------------------|-----------------|-------------|----------------------|---------|---------|---------|---------------------|---------|---------|---------|-------------------|
| Mode | N _{Tx} | Freq. (MHz) | 26dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | Power Limit (dBm) |
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Chain 0 | Chain 1 | Chain 2 | Chain 3 | |
| VHT20 | 3 | 5260 | 21.97 | 21.68 | 21.57 | --- | 18.11 | 17.86 | 17.92 | --- | 24.00 |
| VHT20 | 3 | 5300 | 21.68 | 21.57 | 21.68 | --- | 18.11 | 17.87 | 17.92 | --- | 24.00 |
| VHT20 | 3 | 5320 | 21.74 | 21.51 | 21.51 | --- | 18.12 | 17.88 | 17.92 | --- | 24.00 |
| VHT40 | 3 | 5270 | 41.16 | 40.35 | 40.81 | --- | 36.56 | 36.58 | 36.58 | --- | 24.00 |
| VHT40 | 3 | 5310 | 41.28 | 40.93 | 40.70 | --- | 36.66 | 36.56 | 36.60 | --- | 24.00 |
| VHT80 | 3 | 5290 | 81.16 | 81.39 | 80.46 | --- | 76.44 | 76.08 | 76.32 | --- | 24.00 |
| VHT20 | 3 | 5500 | 21.68 | 21.39 | 21.51 | --- | 18.09 | 17.87 | 17.90 | --- | 24.00 |
| VHT20 | 3 | 5580 | 21.80 | 21.62 | 21.45 | --- | 18.10 | 17.88 | 17.90 | --- | 24.00 |
| VHT20 | 3 | 5700 | 21.91 | 21.51 | 21.51 | --- | 18.13 | 17.87 | 17.90 | --- | 24.00 |
| VHT40 | 3 | 5510 | 41.16 | 41.04 | 41.28 | --- | 36.60 | 36.56 | 36.58 | --- | 24.00 |
| VHT40 | 3 | 5590 | 41.28 | 40.81 | 40.81 | --- | 36.70 | 36.56 | 36.58 | --- | 24.00 |
| VHT40 | 3 | 5670 | 41.16 | 40.93 | 40.81 | --- | 36.72 | 36.52 | 36.56 | --- | 24.00 |
| VHT80 | 3 | 5530 | 80.93 | 80.93 | 80.93 | --- | 76.76 | 75.96 | 75.96 | --- | 24.00 |
| VHT80 | 3 | 5610 | 81.16 | 81.16 | 80.93 | --- | 76.12 | 76.40 | 75.92 | --- | 24.00 |



Channel that extends across the 5.725 GHz boundary

| UNII Emission Bandwidth Result (Within 5470-5725MHz band) | | | | | | | | | | | |
|---|-----------------|-------------|----------------------|---------|---------|---------|---------------------|---------|---------|---------|-------------------|
| Mode | N _{TX} | Freq. (MHz) | 26dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | Power Limit (dBm) |
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Chain 0 | Chain 1 | Chain 2 | Chain 3 | |
| VHT20 | 3 | 5720 | 15.89 | 15.83 | 15.34 | --- | 14.11 | 14.00 | 14.00 | --- | 22.86 |
| VHT40 | 3 | 5710 | 36.71 | 35.51 | 35.30 | --- | 33.37 | 33.33 | 33.29 | --- | 24.00 |
| VHT80 | 3 | 5690 | 75.65 | 75.44 | 75.22 | --- | 73.38 | 72.90 | 73.42 | --- | 24.00 |

| UNII Emission Bandwidth Result (Extends across 5725MHz band) | | | | | | | | | | | |
|--|-----------------|-------------|----------------------|---------|---------|---------|---------------------|---------|---------|---------|--|
| Mode | N _{TX} | Freq. (MHz) | 26dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | |
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Chain 0 | Chain 1 | Chain 2 | Chain 3 | |
| VHT20 | 3 | 5720 | 6.02 | 6.00 | 5.80 | --- | 4.01 | 3.89 | 3.92 | --- | |
| VHT40 | 3 | 5710 | 5.68 | 5.57 | 5.51 | --- | 3.27 | 3.23 | 3.23 | --- | |
| VHT80 | 3 | 5690 | 6.61 | 6.43 | 6.17 | --- | 2.94 | 2.86 | 2.86 | --- | |



3.3 RF Output Power

3.3.1 Limit of RF Output Power

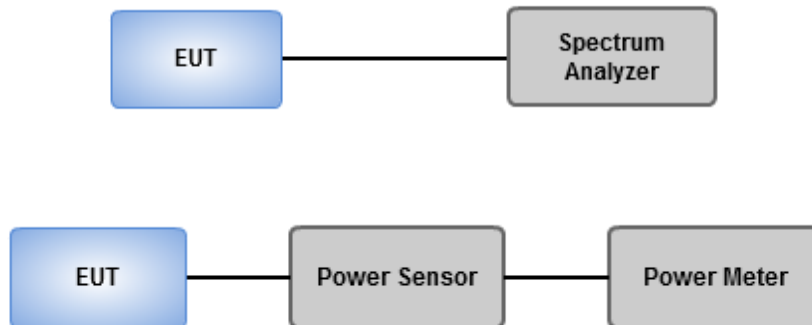
| Frequency Band (MHz) | Limit |
|---|-------------------------|
| <input checked="" type="checkbox"/> 5250 ~ 5350 | 250mW or 11dBm+10 log B |
| <input checked="" type="checkbox"/> 5470 ~ 5725 | 250mW or 11dBm+10 log B |

Note: "B" is the 26dB emission bandwidth in MHz.

3.3.2 Test Procedures

- Power meter (For channel that does not extends across the 5.725 GHz boundary)
 - Measurements 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
- Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)
 1. Set RBW=1MHz, VBW=3MHz , Sweep time= Auto, Detector = RMS
 2. Trace average at least 100 traces in power averaging mode
 3. Compute power by integrating the spectrum across the 26 dB EBW
 4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

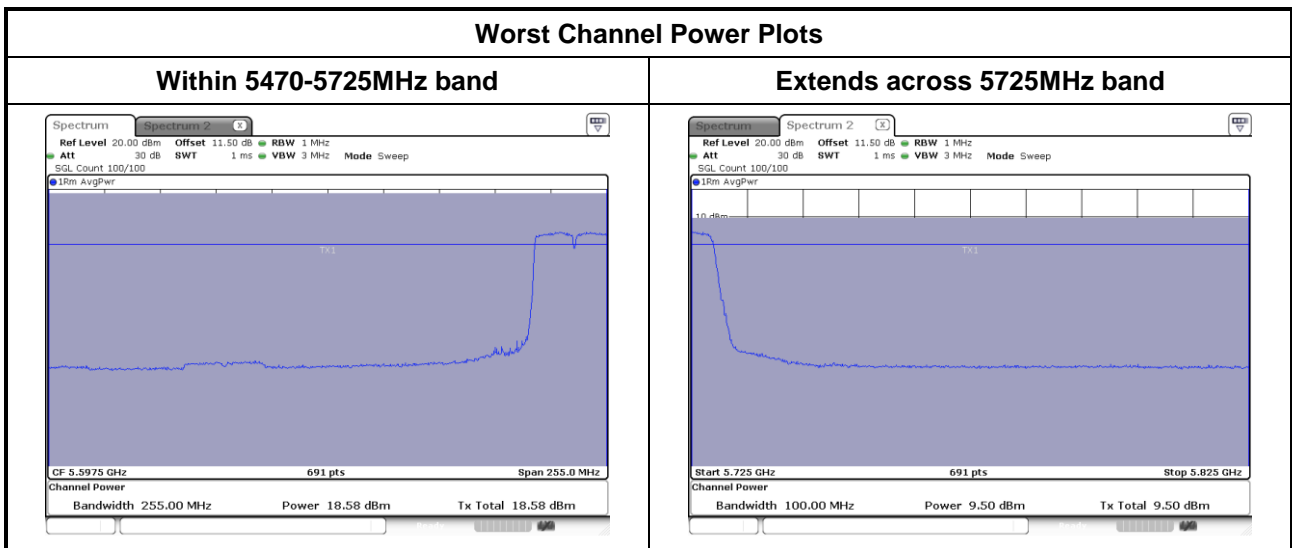
Non-beamforming mode

| Mode | N _{TX} | Freq. (MHz) | Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
|-------|-----------------|-------------|-----------------------|---------|---------|---------|------------------|-------------------|-------------|
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | |
| 11a | 3 | 5260 | 16.24 | 15.89 | 15.55 | --- | 116.780 | 20.67 | 24.00 |
| 11a | 3 | 5300 | 16.11 | 15.81 | 15.59 | --- | 115.163 | 20.61 | 24.00 |
| 11a | 3 | 5320 | 16.22 | 15.92 | 15.62 | --- | 117.439 | 20.70 | 24.00 |
| HT20 | 3 | 5260 | 16.39 | 15.99 | 16.06 | --- | 123.635 | 20.92 | 24.00 |
| HT20 | 3 | 5300 | 16.19 | 15.88 | 15.69 | --- | 117.385 | 20.70 | 24.00 |
| HT20 | 3 | 5320 | 16.54 | 16.03 | 16.19 | --- | 126.759 | 21.03 | 24.00 |
| HT40 | 3 | 5270 | 17.59 | 17.35 | 17.72 | --- | 170.893 | 22.33 | 24.00 |
| HT40 | 3 | 5310 | 16.15 | 16.66 | 16.83 | --- | 135.749 | 21.33 | 24.00 |
| VHT20 | 3 | 5260 | 16.45 | 16.03 | 16.12 | --- | 125.170 | 20.97 | 24.00 |
| VHT20 | 3 | 5300 | 16.25 | 15.92 | 15.78 | --- | 119.098 | 20.76 | 24.00 |
| VHT20 | 3 | 5320 | 16.61 | 16.15 | 16.24 | --- | 129.097 | 21.11 | 24.00 |
| VHT40 | 3 | 5270 | 17.68 | 17.49 | 17.85 | --- | 175.672 | 22.45 | 24.00 |
| VHT40 | 3 | 5310 | 16.20 | 16.73 | 16.99 | --- | 138.788 | 21.42 | 24.00 |
| VHT80 | 3 | 5290 | 13.36 | 13.56 | 13.62 | --- | 67.390 | 18.29 | 24.00 |
| 11a | 3 | 5500 | 16.52 | 15.76 | 15.89 | --- | 121.360 | 20.84 | 24.00 |
| 11a | 3 | 5580 | 15.53 | 14.68 | 15.04 | --- | 97.019 | 19.87 | 24.00 |
| 11a | 3 | 5700 | 16.41 | 16.51 | 16.18 | --- | 130.019 | 21.14 | 24.00 |
| HT20 | 3 | 5500 | 16.35 | 15.87 | 16.03 | --- | 121.875 | 20.86 | 24.00 |
| HT20 | 3 | 5580 | 15.22 | 15.03 | 15.19 | --- | 98.145 | 19.92 | 24.00 |
| HT20 | 3 | 5700 | 15.76 | 15.58 | 15.42 | --- | 108.645 | 20.36 | 24.00 |
| HT40 | 3 | 5510 | 17.19 | 17.11 | 17.25 | --- | 156.853 | 21.95 | 24.00 |
| HT40 | 3 | 5590 | 18.54 | 18.26 | 18.06 | --- | 202.412 | 23.06 | 24.00 |
| HT40 | 3 | 5670 | 17.98 | 17.92 | 18.11 | --- | 189.464 | 22.78 | 24.00 |
| VHT20 | 3 | 5500 | 16.42 | 15.98 | 16.11 | --- | 124.313 | 20.95 | 24.00 |
| VHT20 | 3 | 5580 | 15.31 | 15.08 | 15.24 | --- | 99.593 | 19.98 | 24.00 |
| VHT20 | 3 | 5700 | 15.81 | 15.65 | 15.54 | --- | 110.644 | 20.44 | 24.00 |
| VHT40 | 3 | 5510 | 17.25 | 17.19 | 17.38 | --- | 160.150 | 22.05 | 24.00 |
| VHT40 | 3 | 5590 | 18.56 | 18.31 | 18.11 | --- | 204.258 | 23.10 | 24.00 |
| VHT40 | 3 | 5670 | 18.02 | 17.96 | 18.25 | --- | 192.739 | 22.85 | 24.00 |
| VHT80 | 3 | 5530 | 13.73 | 13.86 | 14.12 | --- | 73.749 | 18.68 | 24.00 |
| VHT80 | 3 | 5610 | 16.28 | 16.27 | 16.52 | --- | 129.701 | 21.13 | 24.00 |

Channel that extends across the 5.725 GHz boundary

| Maximum Conducted Output Power (Within 5470-5725MHz band) | | | | | | | | | | | |
|---|-----------------|-------------|-------------------------------------|---------|---------|---------|-------------------|------------------|------------------|-------------------|-------------|
| Mode | N _{Tx} | Freq. (MHz) | Conducted Power without duty factor | | | | | Duty factor (dB) | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Total Power (dBm) | | | | |
| 11a | 3 | 5720 | 14.66 | 15.23 | 14.62 | --- | 19.62 | 0.17 | 95.213 | 19.79 | 22.94 |
| HT20 | 3 | 5720 | 15.00 | 15.17 | 15.01 | --- | 19.83 | 0.00 | 96.204 | 19.83 | 22.99 |
| HT40 | 3 | 5710 | 17.75 | 17.75 | 17.59 | --- | 22.47 | 0.00 | 176.544 | 22.47 | 24.00 |
| VHT20 | 3 | 5720 | 15.06 | 15.27 | 15.23 | --- | 19.96 | 0.00 | 99.056 | 19.96 | 22.99 |
| VHT40 | 3 | 5710 | 17.66 | 18.53 | 18.58 | --- | 23.05 | 0.00 | 201.741 | 23.05 | 24.00 |
| VHT80 | 3 | 5690 | 18.52 | 18.13 | 18.42 | --- | 23.13 | 0.18 | 214.339 | 23.31 | 24.00 |

| Maximum Conducted Output Power (Extends across 5725MHz band) | | | | | | | | | | | |
|--|-----------------|-------------|-------------------------------------|---------|---------|---------|-------------------|------------------|------------------|-------------------|-------------|
| Mode | N _{Tx} | Freq. (MHz) | Conducted Power without duty factor | | | | | Duty factor (dB) | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Total Power (dBm) | | | | |
| 11a | 3 | 5720 | 8.38 | 8.89 | 8.21 | --- | 13.27 | 0.17 | 22.102 | 13.44 | 30.00 |
| HT20 | 3 | 5720 | 9.20 | 9.42 | 9.19 | --- | 14.04 | 0.00 | 25.366 | 14.04 | 30.00 |
| HT40 | 3 | 5710 | 7.39 | 7.39 | 7.95 | --- | 12.36 | 0.00 | 17.203 | 12.36 | 30.00 |
| VHT20 | 3 | 5720 | 9.45 | 9.50 | 9.31 | --- | 14.19 | 0.00 | 26.254 | 14.19 | 30.00 |
| VHT40 | 3 | 5710 | 7.02 | 8.03 | 8.03 | --- | 12.49 | 0.00 | 17.742 | 12.49 | 30.00 |
| VHT80 | 3 | 5690 | 4.44 | 4.13 | 4.47 | --- | 9.12 | 0.18 | 8.513 | 9.30 | 30.00 |



Beamforming mode

| Mode | N _{TX} | Freq. (MHz) | Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
|-------|-----------------|-------------|-----------------------|---------|---------|---------|------------------|-------------------|-------------|
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | |
| HT20 | 3 | 5260 | 16.16 | 16.02 | 16.03 | --- | 121.386 | 20.84 | 21.23 |
| HT20 | 3 | 5300 | 16.05 | 16.00 | 15.55 | --- | 115.975 | 20.64 | 21.23 |
| HT20 | 3 | 5320 | 16.24 | 16.29 | 16.01 | --- | 124.535 | 20.95 | 21.23 |
| HT40 | 3 | 5270 | 16.09 | 16.04 | 16.58 | --- | 126.322 | 21.01 | 21.23 |
| HT40 | 3 | 5310 | 14.32 | 14.87 | 15.29 | --- | 91.536 | 19.62 | 21.23 |
| VHT20 | 3 | 5260 | 16.22 | 16.03 | 16.09 | --- | 122.610 | 20.89 | 21.23 |
| VHT20 | 3 | 5300 | 16.11 | 16.08 | 15.63 | --- | 117.942 | 20.72 | 21.23 |
| VHT20 | 3 | 5320 | 16.33 | 16.35 | 16.05 | --- | 126.377 | 21.02 | 21.23 |
| VHT40 | 3 | 5270 | 16.14 | 16.11 | 16.65 | --- | 128.185 | 21.08 | 21.23 |
| VHT40 | 3 | 5310 | 14.52 | 14.94 | 15.38 | --- | 94.017 | 19.73 | 21.23 |
| VHT80 | 3 | 5290 | 12.58 | 12.75 | 12.63 | --- | 55.273 | 17.43 | 21.23 |
| HT20 | 3 | 5500 | 15.73 | 15.26 | 15.21 | --- | 104.174 | 20.18 | 21.23 |
| HT20 | 3 | 5580 | 14.88 | 14.65 | 14.59 | --- | 88.709 | 19.48 | 21.23 |
| HT20 | 3 | 5700 | 15.32 | 15.37 | 15.06 | --- | 100.539 | 20.02 | 21.23 |
| HT40 | 3 | 5510 | 16.29 | 15.87 | 15.80 | --- | 119.215 | 20.76 | 21.23 |
| HT40 | 3 | 5590 | 16.28 | 16.11 | 16.09 | --- | 123.938 | 20.93 | 21.23 |
| HT40 | 3 | 5670 | 16.43 | 16.27 | 16.18 | --- | 127.814 | 21.07 | 21.23 |
| VHT20 | 3 | 5500 | 15.76 | 15.35 | 15.29 | --- | 105.754 | 20.24 | 21.23 |
| VHT20 | 3 | 5580 | 14.93 | 14.72 | 14.65 | --- | 89.940 | 19.54 | 21.23 |
| VHT20 | 3 | 5700 | 15.4 | 15.49 | 15.15 | --- | 102.807 | 20.12 | 21.23 |
| VHT40 | 3 | 5510 | 16.38 | 15.95 | 15.89 | --- | 121.621 | 20.85 | 21.23 |
| VHT40 | 3 | 5590 | 16.31 | 16.25 | 16.19 | --- | 126.517 | 21.02 | 21.23 |
| VHT40 | 3 | 5670 | 16.51 | 16.32 | 16.22 | --- | 129.506 | 21.12 | 21.23 |
| VHT80 | 3 | 5530 | 13.14 | 13.35 | 13.55 | --- | 64.880 | 18.12 | 21.23 |
| VHT80 | 3 | 5610 | 16.03 | 15.98 | 16.32 | --- | 122.569 | 20.88 | 21.23 |

Note:

- Directional gain = $4 + 10 \cdot \log(3/1) = 8.77 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $24 \text{ dBm} - (8.77 \text{ dBi} - 6 \text{ dBi}) = 21.23 \text{ dBm}$

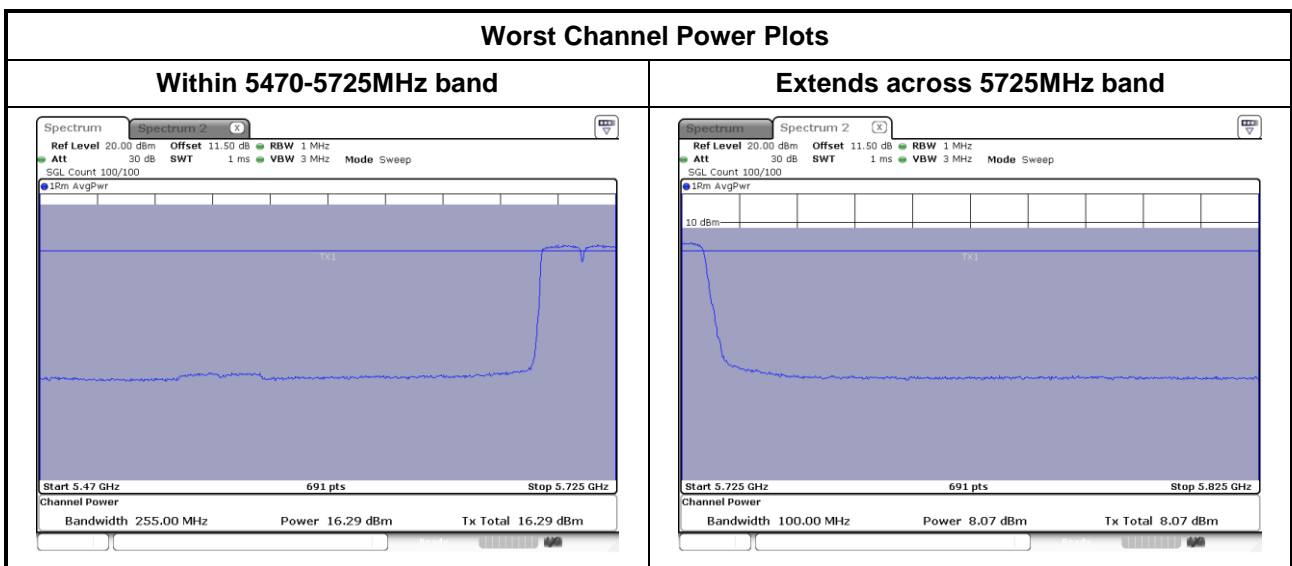
Channel that extends across the 5.725 GHz boundary

| Maximum Conducted Output Power (Within 5470-5725MHz band) | | | | | | | | | | | |
|---|-----------------|-------------|-------------------------------------|---------|---------|---------|-------------------|------------------|------------------|-------------------|-------------|
| Mode | N _{TX} | Freq. (MHz) | Conducted Power without duty factor | | | | | Duty factor (dB) | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Total Power (dBm) | | | | |
| HT20 | 3 | 5720 | 13.40 | 13.73 | 13.42 | --- | 18.29 | 0.00 | 67.461 | 18.29 | 20.09 |
| HT40 | 3 | 5710 | 15.49 | 15.43 | 15.23 | --- | 20.16 | 0.00 | 103.656 | 20.16 | 21.23 |
| VHT20 | 3 | 5720 | 13.47 | 13.75 | 13.44 | --- | 18.33 | 0.00 | 68.027 | 18.33 | 20.09 |
| VHT40 | 3 | 5710 | 16.29 | 16.06 | 15.72 | --- | 20.80 | 0.00 | 120.249 | 20.80 | 21.23 |
| VHT80 | 3 | 5690 | 15.32 | 14.90 | 15.18 | --- | 19.91 | 0.22 | 102.992 | 20.13 | 21.23 |

Note: Directional gain = $4+10 \cdot \log(3/1) = 8.77 \text{ dBi} > 6 \text{ dBi}$. Limit shall be reduced 2.77 dB – (8.77 dBi – 6 dBi)

| Maximum Conducted Output Power (Extends across 5725MHz band) | | | | | | | | | | | |
|--|-----------------|-------------|-------------------------------------|---------|---------|---------|-------------------|------------------|------------------|-------------------|-------------|
| Mode | N _{TX} | Freq. (MHz) | Conducted Power without duty factor | | | | | Duty factor (dB) | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
| | | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Total Power (dBm) | | | | |
| HT20 | 3 | 5720 | 7.56 | 7.95 | 7.68 | --- | 12.50 | 0.00 | 17.800 | 12.50 | 27.23 |
| HT40 | 3 | 5710 | 5.26 | 5.01 | 4.68 | --- | 9.76 | 0.00 | 9.465 | 9.76 | 27.23 |
| VHT20 | 3 | 5720 | 7.63 | 8.07 | 7.83 | --- | 12.62 | 0.00 | 18.274 | 12.62 | 27.23 |
| VHT40 | 3 | 5710 | 5.49 | 5.84 | 5.19 | --- | 10.29 | 0.00 | 10.681 | 10.29 | 27.23 |
| VHT80 | 3 | 5690 | 1.19 | 0.87 | 1.09 | --- | 5.82 | 0.22 | 4.021 | 6.04 | 27.23 |

Note: Directional gain = $4+10 \cdot \log(3/1) = 8.77 \text{ dBi} > 6 \text{ dBi}$. Limit shall be reduced to 30 dBm – (8.77 dBi – 6 dBi) = 27.23 dBm.



3.4 Peak Power Spectral Density

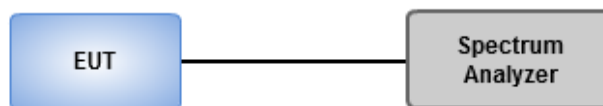
3.4.1 Limit of Peak Power Spectral Density

| Frequency Band (MHz) | | Limit |
|-------------------------------------|-------------|--------------|
| <input checked="" type="checkbox"/> | 5250 ~ 5350 | 11 dBm / MHz |
| <input checked="" type="checkbox"/> | 5470 ~ 5725 | 11 dBm / MHz |

3.4.2 Test Procedures

- Method SA-1 (Non- Beamforming: VHT20/VHT40 / Beamforming: VHT20/VHT40)
 1. Set RBW = 1 MHz, VBW = 3 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 (Non- Beamforming: 11a/VHT80 / Beamforming: VHT80)
 1. Set RBW = 1 MHz, VBW = 3 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 if duty cycle < 98%

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

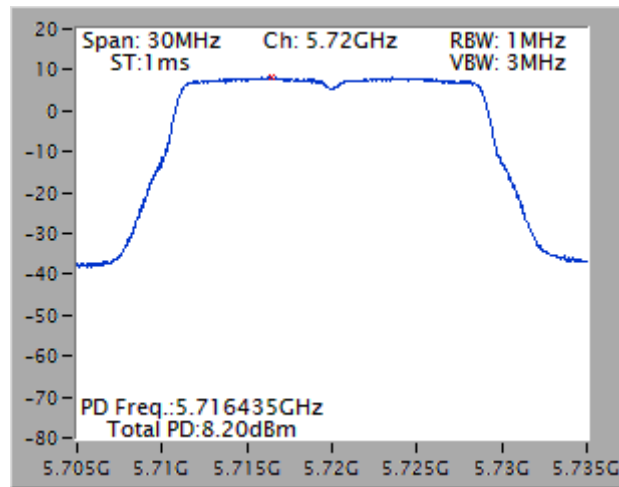
Non-beamforming mode

| Condition | | | Peak Power Spectral Density (dBm/MHz) | | | |
|-----------|-----------------|-------------|---------------------------------------|------------------|-------------------------|----------------------|
| Mode | N _{TX} | Freq. (MHz) | PPSD w/o D.F (dBm/MHz) | Duty Factor (dB) | PPSD with D.F (dBm/MHz) | PPSD Limit (dBm/MHz) |
| 11a | 3 | 5260 | 7.50 | 0.17 | 7.67 | 8.23 |
| 11a | 3 | 5300 | 7.57 | 0.17 | 7.74 | 8.23 |
| 11a | 3 | 5320 | 7.30 | 0.17 | 7.47 | 8.23 |
| VHT20 | 3 | 5260 | 7.39 | 0.00 | 7.39 | 8.23 |
| VHT20 | 3 | 5300 | 7.96 | 0.00 | 7.96 | 8.23 |
| VHT20 | 3 | 5320 | 7.62 | 0.00 | 7.62 | 8.23 |
| VHT40 | 3 | 5270 | 7.85 | 0.00 | 7.85 | 8.23 |
| VHT40 | 3 | 5310 | 5.50 | 0.00 | 5.50 | 8.23 |
| VHT80 | 3 | 5290 | -0.56 | 0.18 | -0.38 | 8.23 |
| 11a | 3 | 5500 | 6.93 | 0.17 | 7.10 | 8.23 |
| 11a | 3 | 5580 | 5.79 | 0.17 | 5.96 | 8.23 |
| 11a | 3 | 5700 | 7.51 | 0.17 | 7.68 | 8.23 |
| 11a | 3 | 5720 | 7.87 | 0.17 | 8.04 | 8.23 |
| VHT20 | 3 | 5500 | 7.16 | 0.00 | 7.16 | 8.23 |
| VHT20 | 3 | 5580 | 6.19 | 0.00 | 6.19 | 8.23 |
| VHT20 | 3 | 5700 | 6.84 | 0.00 | 6.84 | 8.23 |
| VHT20 | 3 | 5720 | 8.20 | 0.00 | 8.20 | 8.23 |
| VHT40 | 3 | 5510 | 4.95 | 0.00 | 4.95 | 8.23 |
| VHT40 | 3 | 5590 | 7.31 | 0.00 | 7.31 | 8.23 |
| VHT40 | 3 | 5670 | 6.73 | 0.00 | 6.73 | 8.23 |
| VHT40 | 3 | 5710 | 7.38 | 0.00 | 7.38 | 8.23 |
| VHT80 | 3 | 5530 | -0.85 | 0.18 | -0.67 | 8.23 |
| VHT80 | 3 | 5610 | 1.88 | 0.18 | 2.06 | 8.23 |
| VHT80 | 3 | 5690 | 4.56 | 0.18 | 4.74 | 8.23 |

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $4+10 \cdot \log(3/1) = 8.77 \text{ dBi} > 6\text{dBi}$.
Limit shall be reduced to $11 \text{ dBm} - (8.77 \text{ dBi} - 6 \text{ dBi}) = 8.23 \text{ dBm}$.

Worst Plot

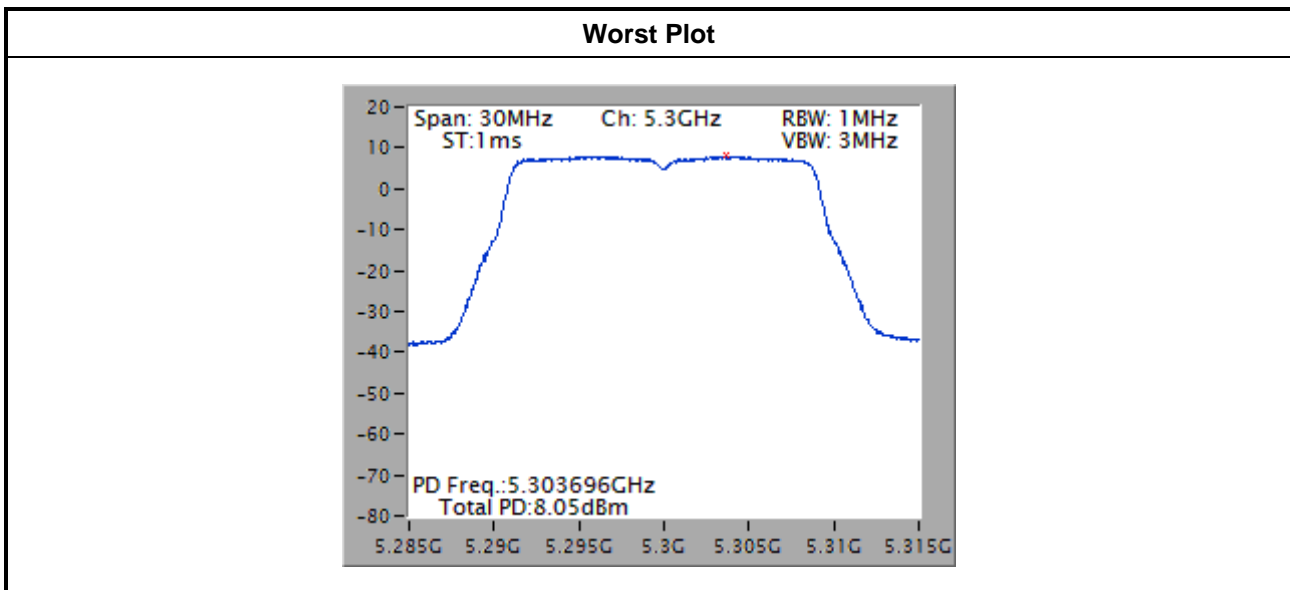


Beamforming mode

| Condition | | | Peak Power Spectral Density (dBm/MHz) | | | |
|-----------|-----------------|-------------|---------------------------------------|------------------|-------------------------|----------------------|
| Mode | N _{TX} | Freq. (MHz) | PPSD w/o D.F (dBm/MHz) | Duty Factor (dB) | PPSD with D.F (dBm/MHz) | PPSD Limit (dBm/MHz) |
| VHT20 | 3 | 5260 | 7.83 | 0.00 | 7.83 | 8.23 |
| VHT20 | 3 | 5300 | 8.05 | 0.00 | 8.05 | 8.23 |
| VHT20 | 3 | 5320 | 7.79 | 0.00 | 7.79 | 8.23 |
| VHT40 | 3 | 5270 | 4.78 | 0.00 | 4.78 | 8.23 |
| VHT40 | 3 | 5310 | 3.39 | 0.00 | 3.39 | 8.23 |
| VHT80 | 3 | 5290 | -1.76 | 0.22 | -1.54 | 8.23 |
| VHT20 | 3 | 5500 | 6.87 | 0.00 | 6.87 | 8.23 |
| VHT20 | 3 | 5580 | 5.90 | 0.00 | 5.90 | 8.23 |
| VHT20 | 3 | 5700 | 7.05 | 0.00 | 7.05 | 8.23 |
| VHT20 | 3 | 5720 | 7.20 | 0.00 | 7.20 | 8.23 |
| VHT40 | 3 | 5510 | 4.01 | 0.00 | 4.01 | 8.23 |
| VHT40 | 3 | 5590 | 4.62 | 0.00 | 4.62 | 8.23 |
| VHT40 | 3 | 5670 | 5.75 | 0.00 | 5.75 | 8.23 |
| VHT40 | 3 | 5710 | 5.77 | 0.00 | 5.77 | 8.23 |
| VHT80 | 3 | 5530 | -1.49 | 0.22 | -1.27 | 8.23 |
| VHT80 | 3 | 5610 | 1.08 | 0.22 | 1.30 | 8.23 |
| VHT80 | 3 | 5690 | 1.21 | 0.22 | 1.43 | 8.23 |

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $4 + 10 \cdot \log(3/1) = 8.77 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $11 \text{ dBm} - (8.77 \text{ dBi} - 6 \text{ dBi}) = 8.23 \text{ dBm}$.



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 | Limit |
| 5.25 - 5.35 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| 5.47 - 5.725 GHz | e.i.r.p. -27 dBm [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).

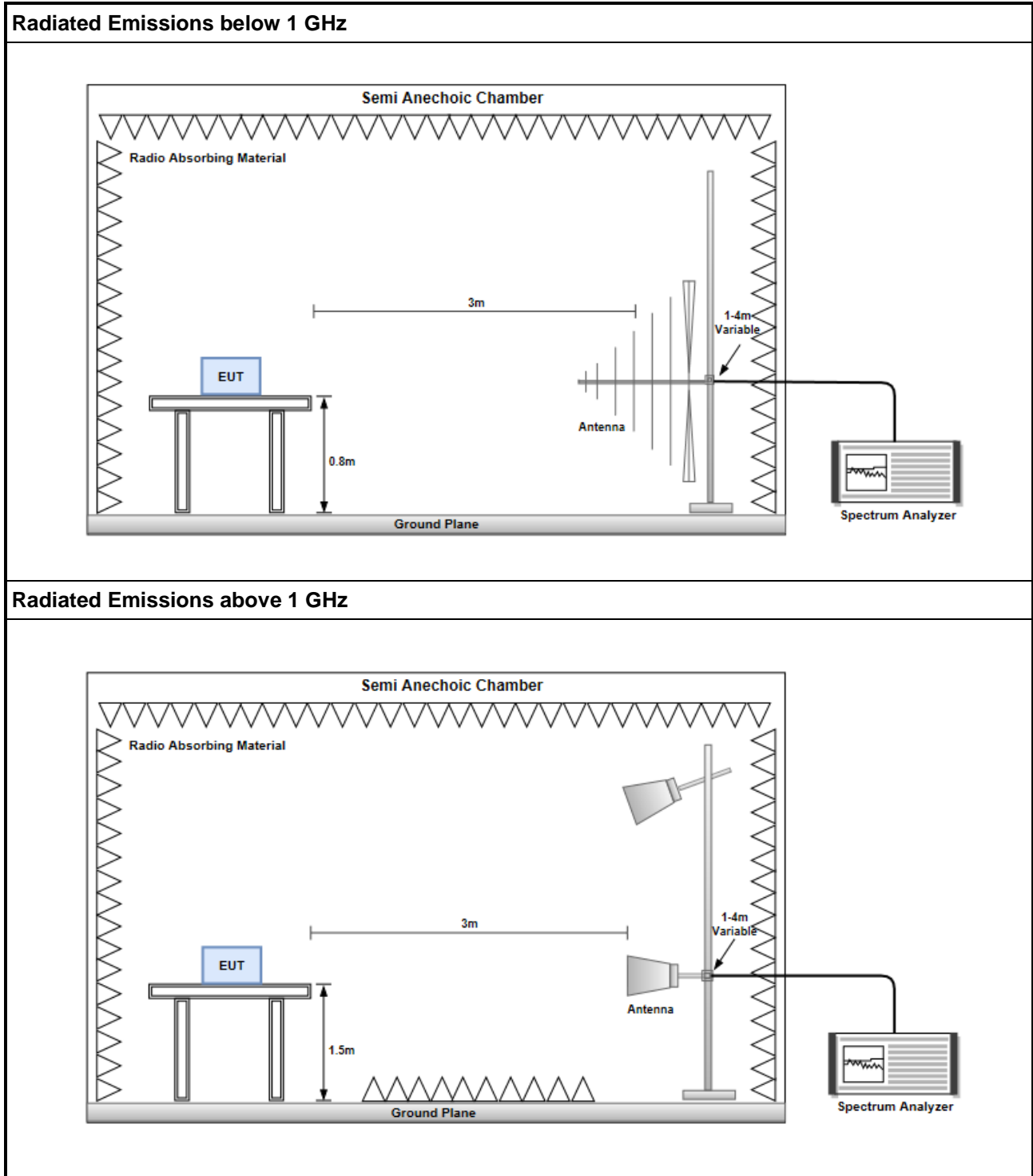
3.5.2 Test Procedures

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

Note:

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

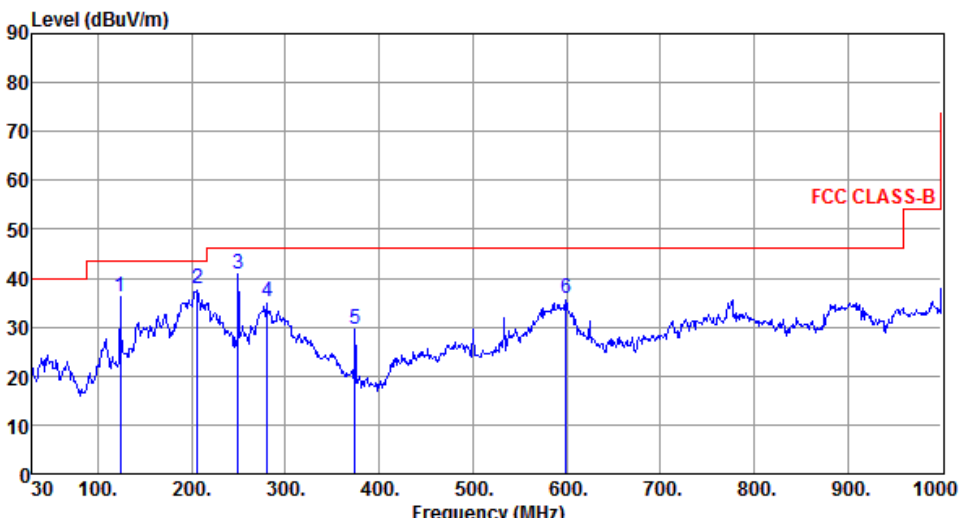
3.5.3 Test Setup



Non- beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

| | | | |
|---------------------|------------|---------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5690 |
| Polarization | Horizontal | Test Configuration | 1 |

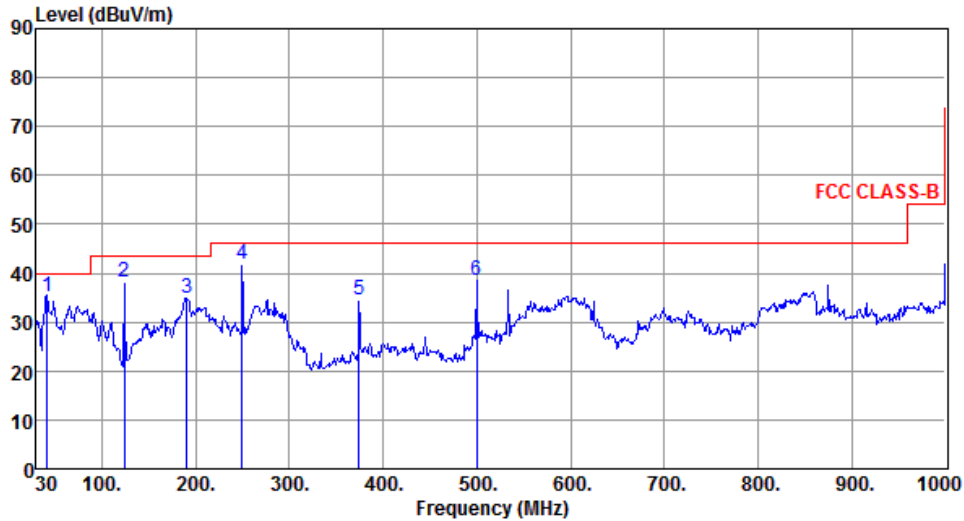


The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (30 to 1000). A red line represents the FCC CLASS-B limit, which is constant at 40 dBuV/m from 30 MHz to 100 MHz, then steps up to 45 dBuV/m from 100 MHz to 1000 MHz. A blue line shows the measured emission level, with six peaks labeled 1 through 6. Peak 1 is at 124.11 MHz, peak 2 at 206.55 MHz, peak 3 at 249.35 MHz, peak 4 at 280.31 MHz, peak 5 at 374.52 MHz, and peak 6 at 599.52 MHz. All peaks are below the 45 dBuV/m limit.

| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 124.11 | 36.28 | 43.50 | -7.22 | 46.89 | -10.61 | Peak | --- | --- |
| 2 | 206.55 | 37.99 | 43.50 | -5.51 | 49.12 | -11.13 | Peak | --- | --- |
| 3 | 249.35 | 40.78 | 46.00 | -5.22 | 50.20 | -9.42 | Peak | --- | --- |
| 4 | 280.31 | 35.35 | 46.00 | -10.65 | 43.65 | -8.30 | Peak | --- | --- |
| 5 | 374.52 | 29.71 | 46.00 | -16.29 | 35.68 | -5.97 | Peak | --- | --- |
| 6 | 599.52 | 35.74 | 46.00 | -10.26 | 36.67 | -0.93 | 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 | VHT80 | Test Freq. (MHz) | 5690 |
| Polarization | Vertical | Test Configuration | 1 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 41.79 | 35.16 | 40.00 | -4.84 | 43.74 | -8.58 | Peak | --- | --- |
| 2 | 124.16 | 38.04 | 43.50 | -5.46 | 48.65 | -10.61 | Peak | --- | --- |
| 3 | 190.17 | 35.03 | 43.50 | -8.47 | 45.87 | -10.84 | Peak | --- | --- |
| 4 | 249.33 | 41.92 | 46.00 | -4.08 | 51.34 | -9.42 | Peak | --- | --- |
| 5 | 374.56 | 34.61 | 46.00 | -11.39 | 40.58 | -5.97 | Peak | --- | --- |
| 6 | 499.62 | 38.67 | 46.00 | -7.33 | 41.91 | -3.24 | Peak | --- | --- |

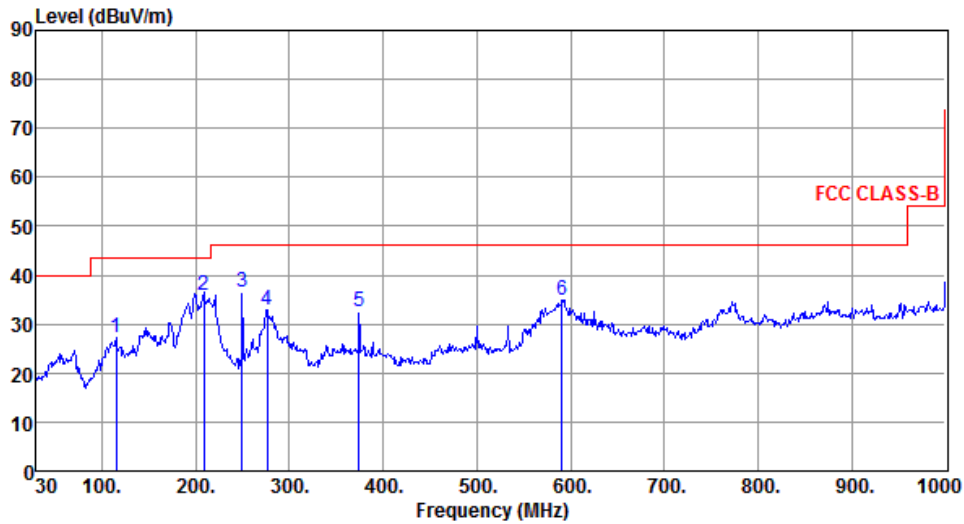
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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 | VHT80 | Test Freq. (MHz) | 5690 |
| Polarization | Horizontal | Test Configuration | 2 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 114.96 | 27.35 | 43.50 | -16.15 | 38.76 | -11.41 | Peak | --- | --- |
| 2 | 208.95 | 35.82 | 43.50 | -7.68 | 46.92 | -11.10 | Peak | --- | --- |
| 3 | 249.65 | 36.56 | 46.00 | -9.44 | 45.98 | -9.42 | Peak | --- | --- |
| 4 | 276.53 | 32.77 | 46.00 | -13.23 | 41.23 | -8.46 | Peak | --- | --- |
| 5 | 374.52 | 32.47 | 46.00 | -13.53 | 38.44 | -5.97 | Peak | --- | --- |
| 6 | 590.54 | 35.02 | 46.00 | -10.98 | 36.19 | -1.17 | Peak | --- | --- |

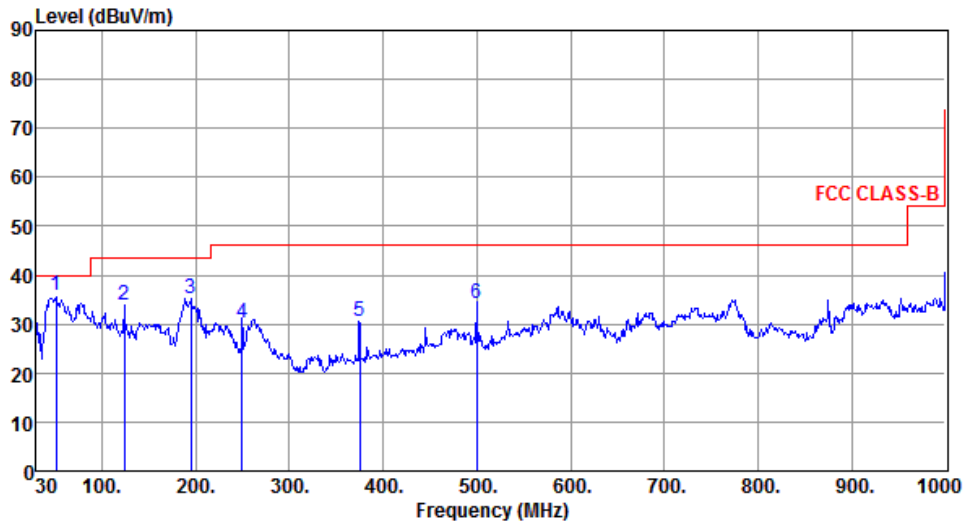
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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 | VHT80 | Test Freq. (MHz) | 5690 |
| Polarization | Vertical | Test Configuration | 2 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 51.33 | 35.74 | 40.00 | -4.26 | 43.98 | -8.24 | Peak | --- | --- |
| 2 | 124.11 | 33.82 | 43.50 | -9.68 | 44.43 | -10.61 | Peak | --- | --- |
| 3 | 194.90 | 35.20 | 43.50 | -8.30 | 46.24 | -11.04 | Peak | --- | --- |
| 4 | 249.35 | 30.25 | 46.00 | -15.75 | 39.67 | -9.42 | Peak | --- | --- |
| 5 | 374.87 | 30.64 | 46.00 | -15.36 | 36.60 | -5.96 | Peak | --- | --- |
| 6 | 499.58 | 34.33 | 46.00 | -11.67 | 37.57 | -3.24 | Peak | --- | --- |

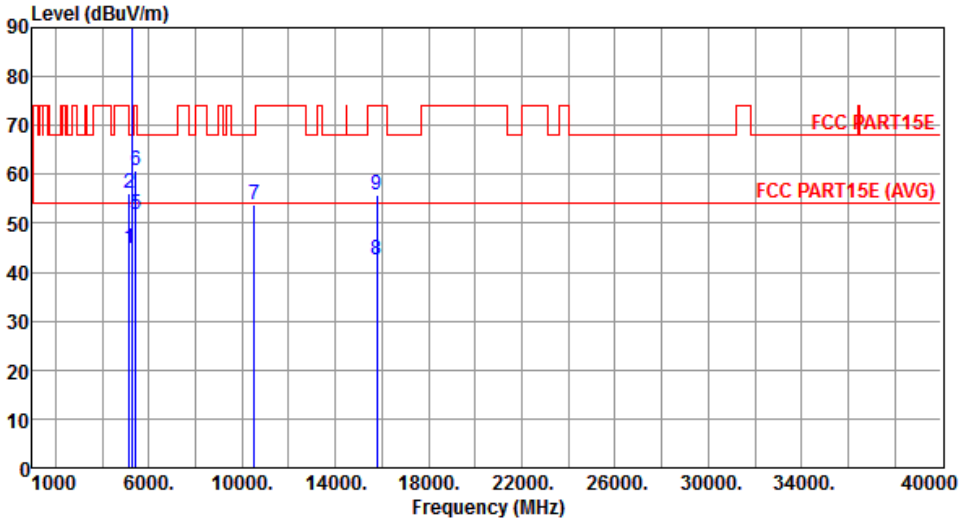
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

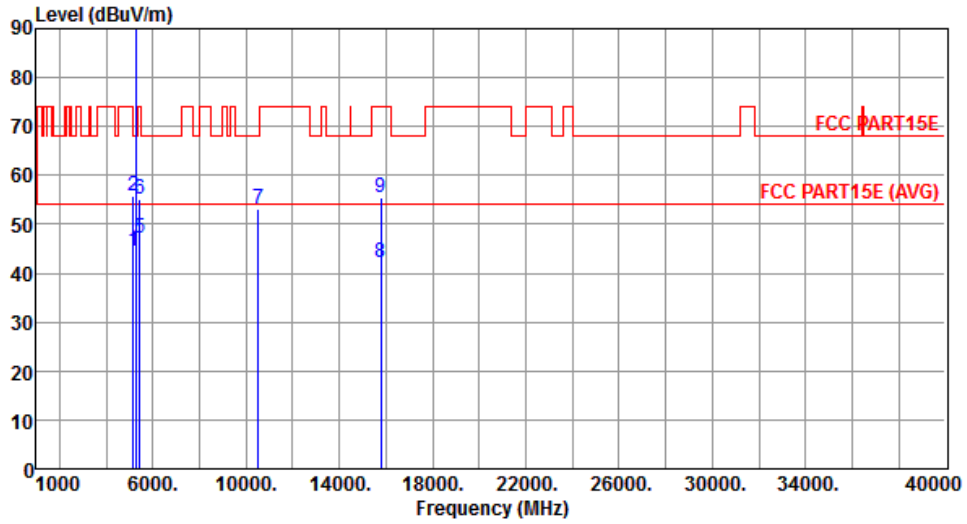
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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

| Modulation | 11a | Test Freq. (MHz) | 5260 | | | | | | |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| Polarization | Horizontal | | | | | | | | |
|  | | | | | | | | | |
| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
| 1 | 5150.00 | 44.91 | 54.00 | -9.09 | 43.56 | 1.35 | Average | 212 | 291 |
| 2 | 5150.00 | 56.17 | 74.00 | -17.83 | 54.82 | 1.35 | Peak | 212 | 291 |
| 3 * | 5260.00 | 106.21 | | | 104.67 | 1.54 | Average | 212 | 291 |
| 4 * | 5260.00 | 115.51 | | | 113.97 | 1.54 | Peak | 212 | 291 |
| 5 | 5420.00 | 51.85 | 54.00 | -2.15 | 50.03 | 1.82 | Average | 212 | 291 |
| 6 | 5420.00 | 60.75 | 74.00 | -13.25 | 58.93 | 1.82 | Peak | 212 | 291 |
| 7 | 10520.00 | 53.85 | 68.20 | -14.35 | 41.10 | 12.75 | Peak | 118 | 109 |
| 8 | 15780.00 | 42.59 | 54.00 | -11.41 | 28.20 | 14.39 | Average | 108 | 101 |
| 9 | 15780.00 | 55.65 | 74.00 | -18.35 | 41.26 | 14.39 | Peak | 108 | 101 |

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: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5260 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00 | 44.62 | 54.00 | -9.38 | 43.27 | 1.35 | Average | 201 | 5 |
| 2 | 5150.00 | 55.93 | 74.00 | -18.07 | 54.58 | 1.35 | Peak | 201 | 5 |
| 3 * | 5260.00 | 100.62 | | | 99.08 | 1.54 | Average | 201 | 5 |
| 4 * | 5260.00 | 109.83 | | | 108.29 | 1.54 | Peak | 201 | 5 |
| 5 | 5420.00 | 47.12 | 54.00 | -6.88 | 45.30 | 1.82 | Average | 201 | 5 |
| 6 | 5420.00 | 55.06 | 74.00 | -18.94 | 53.24 | 1.82 | Peak | 201 | 5 |
| 7 | 10520.00 | 53.11 | 68.20 | -15.09 | 40.36 | 12.75 | Peak | 128 | 16 |
| 8 | 15780.00 | 42.31 | 54.00 | -11.69 | 27.92 | 14.39 | Average | 135 | 22 |
| 9 | 15780.00 | 55.44 | 74.00 | -18.56 | 41.05 | 14.39 | Peak | 135 | 22 |

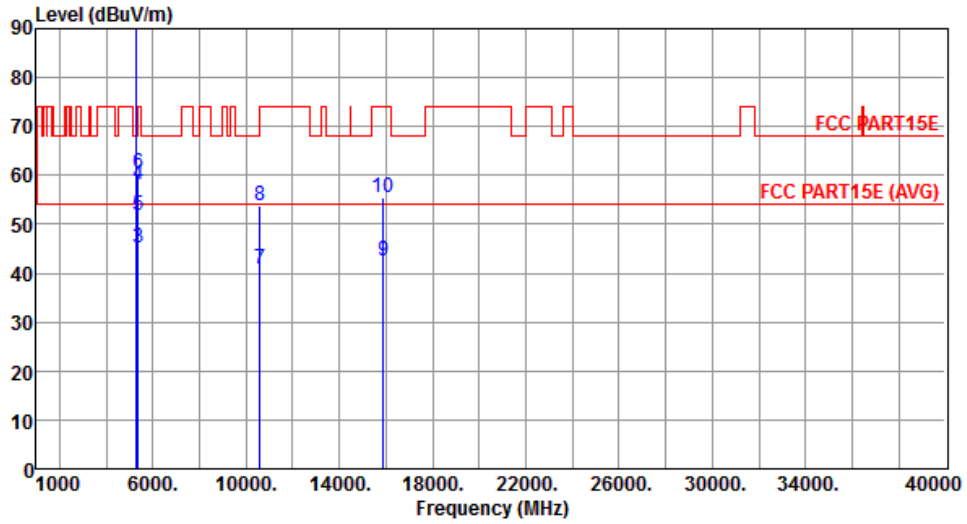
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5300 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5300.00 | 106.18 | | | 104.58 | 1.60 | Average | 208 | 289 |
| 2 | * | 5300.00 | 115.42 | | | 113.82 | 1.60 | Peak | 208 | 289 |
| 3 | | 5350.00 | 45.20 | 54.00 | -8.80 | 43.51 | 1.69 | Average | 208 | 289 |
| 4 | | 5350.00 | 58.11 | 74.00 | -15.89 | 56.42 | 1.69 | Peak | 208 | 289 |
| 5 | | 5380.00 | 51.96 | 54.00 | -2.04 | 50.21 | 1.75 | Average | 114 | 103 |
| 6 | | 5380.00 | 60.48 | 74.00 | -13.52 | 58.73 | 1.75 | Peak | 114 | 103 |
| 7 | | 10600.00 | 40.96 | 54.00 | -13.04 | 28.03 | 12.93 | Average | 118 | 131 |
| 8 | | 10600.00 | 53.69 | 74.00 | -20.31 | 40.76 | 12.93 | Peak | 118 | 131 |
| 9 | | 15900.00 | 42.59 | 54.00 | -11.41 | 28.29 | 14.30 | Average | 114 | 103 |
| 10 | | 15900.00 | 55.61 | 74.00 | -18.39 | 41.31 | 14.30 | Peak | 114 | 103 |

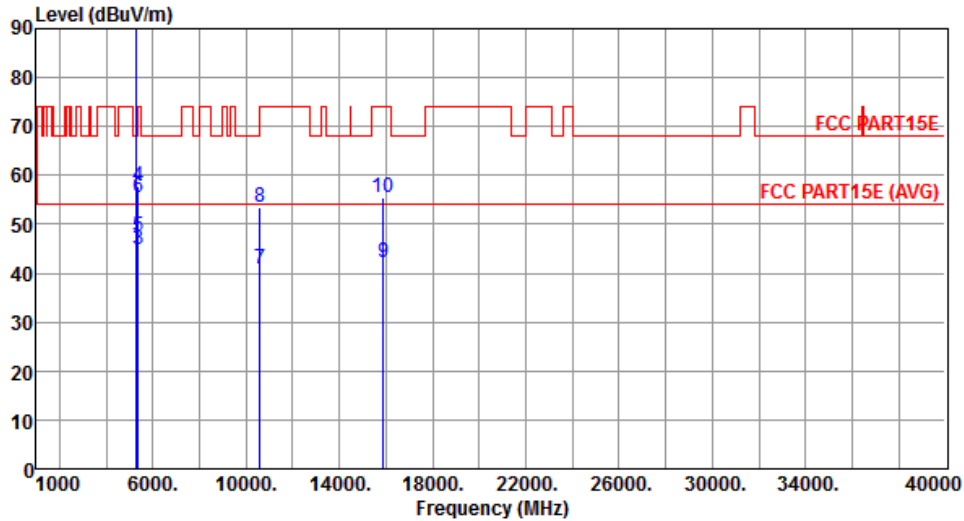
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5300 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5300.00 | 100.42 | | | 98.82 | 1.60 | Average | 209 | 15 |
| 2 | * | 5300.00 | 109.61 | | | 108.01 | 1.60 | Peak | 209 | 15 |
| 3 | | 5350.00 | 44.98 | 54.00 | -9.02 | 43.29 | 1.69 | Average | 209 | 15 |
| 4 | | 5350.00 | 57.86 | 74.00 | -16.14 | 56.17 | 1.69 | Peak | 209 | 15 |
| 5 | | 5380.00 | 47.41 | 54.00 | -6.59 | 45.66 | 1.75 | Average | 129 | 19 |
| 6 | | 5380.00 | 55.53 | 74.00 | -18.47 | 53.78 | 1.75 | Peak | 129 | 19 |
| 7 | | 10600.00 | 40.82 | 54.00 | -13.18 | 27.89 | 12.93 | Average | 129 | 19 |
| 8 | | 10600.00 | 53.45 | 74.00 | -20.55 | 40.52 | 12.93 | Peak | 129 | 19 |
| 9 | | 15900.00 | 42.34 | 54.00 | -11.66 | 28.04 | 14.30 | Average | 125 | 26 |
| 10 | | 15900.00 | 55.41 | 74.00 | -18.59 | 41.11 | 14.30 | Peak | 125 | 26 |

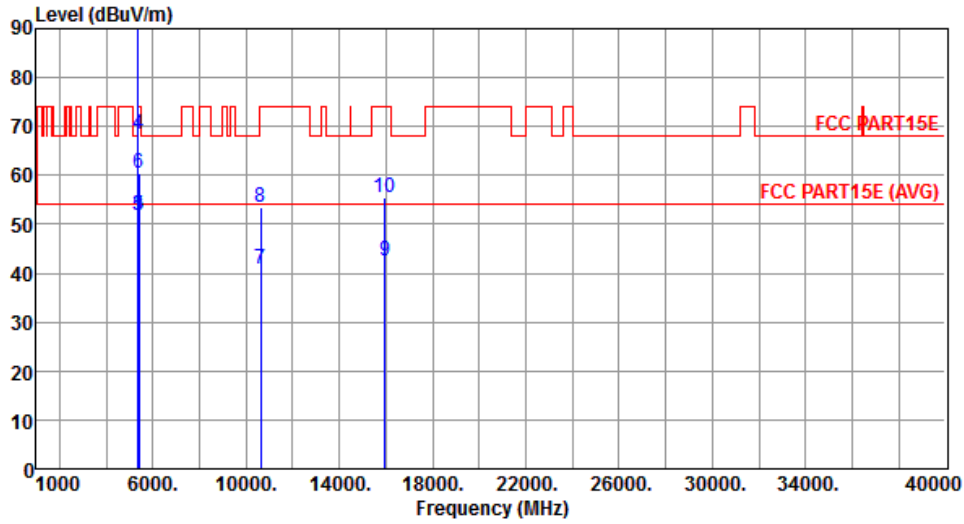
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5320 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5320.00 | 106.44 | | | 104.80 | 1.64 | Average | 211 | 291 |
| 2 | * | 5320.00 | 115.74 | | | 114.10 | 1.64 | Peak | 211 | 291 |
| 3 | | 5350.00 | 51.90 | 54.00 | -2.10 | 50.21 | 1.69 | Average | 211 | 291 |
| 4 | | 5350.00 | 68.31 | 74.00 | -5.69 | 66.62 | 1.69 | Peak | 211 | 291 |
| 5 | | 5400.00 | 51.82 | 54.00 | -2.18 | 50.04 | 1.78 | Average | 211 | 291 |
| 6 | | 5400.00 | 60.51 | 74.00 | -13.49 | 58.73 | 1.78 | Peak | 211 | 291 |
| 7 | | 10640.00 | 40.83 | 54.00 | -13.17 | 27.81 | 13.02 | Average | 120 | 134 |
| 8 | | 10640.00 | 53.53 | 74.00 | -20.47 | 40.51 | 13.02 | Peak | 120 | 134 |
| 9 | | 15960.00 | 42.40 | 54.00 | -11.60 | 28.15 | 14.25 | Average | 110 | 95 |
| 10 | | 15960.00 | 55.46 | 74.00 | -18.54 | 41.21 | 14.25 | Peak | 110 | 95 |

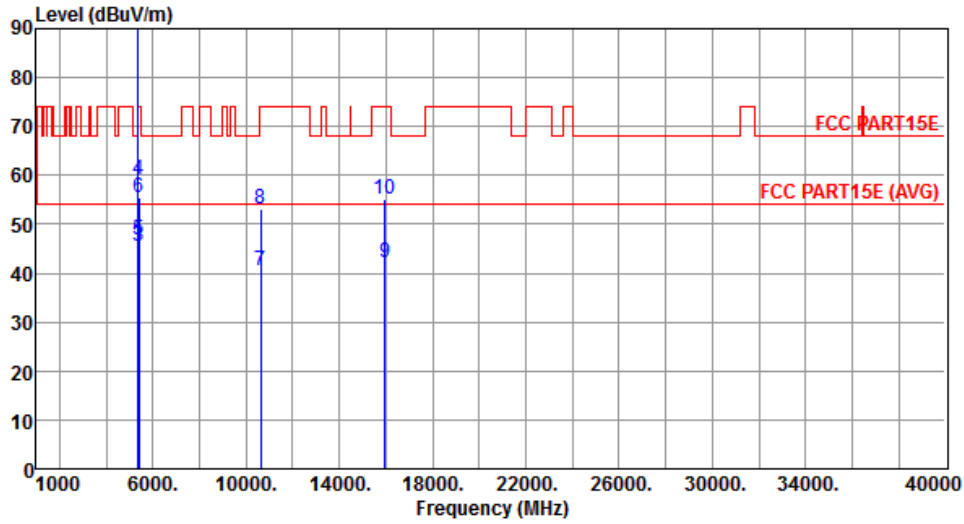
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5320 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5320.00 | 100.89 | | | 99.25 | 1.64 | Average | 203 | 2 |
| 2 | * | 5320.00 | 110.09 | | | 108.45 | 1.64 | Peak | 203 | 2 |
| 3 | | 5350.00 | 45.50 | 54.00 | -8.50 | 43.81 | 1.69 | Average | 203 | 2 |
| 4 | | 5350.00 | 58.95 | 74.00 | -15.05 | 57.26 | 1.69 | Peak | 203 | 2 |
| 5 | | 5400.00 | 46.94 | 54.00 | -7.06 | 45.16 | 1.78 | Average | 203 | 2 |
| 6 | | 5400.00 | 55.55 | 74.00 | -18.45 | 53.77 | 1.78 | Peak | 203 | 2 |
| 7 | | 10640.00 | 40.65 | 54.00 | -13.35 | 27.63 | 13.02 | Average | 125 | 14 |
| 8 | | 10640.00 | 53.22 | 74.00 | -20.78 | 40.20 | 13.02 | Peak | 125 | 14 |
| 9 | | 15960.00 | 42.15 | 54.00 | -11.85 | 27.90 | 14.25 | Average | 131 | 19 |
| 10 | | 15960.00 | 55.28 | 74.00 | -18.72 | 41.03 | 14.25 | Peak | 131 | 19 |

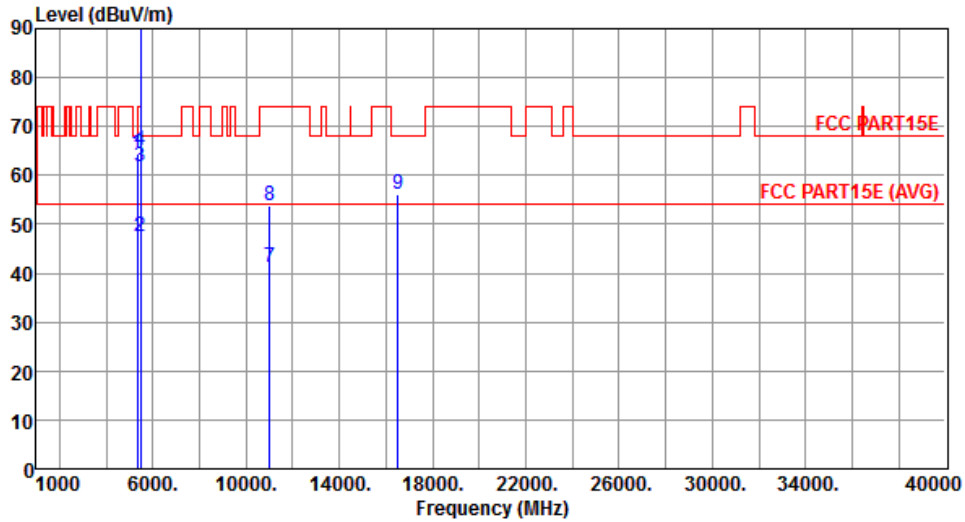
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5500 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5340.00 | 64.33 | 68.20 | -3.87 | 62.66 | 1.67 | Peak | 189 | 294 |
| 2 | 5460.00 | 47.49 | 54.00 | -6.51 | 45.62 | 1.87 | Average | 189 | 294 |
| 3 | 5460.00 | 61.83 | 74.00 | -12.17 | 59.96 | 1.87 | Peak | 189 | 294 |
| 4 | 5470.00 | 65.12 | 68.20 | -3.08 | 63.24 | 1.88 | Peak | 189 | 294 |
| 5 * | 5500.00 | 106.25 | | | 104.32 | 1.93 | Average | 189 | 294 |
| 6 * | 5500.00 | 115.44 | | | 113.51 | 1.93 | Peak | 189 | 294 |
| 7 | 11000.00 | 41.25 | 54.00 | -12.75 | 27.44 | 13.81 | Average | 125 | 108 |
| 8 | 11000.00 | 53.94 | 74.00 | -20.06 | 40.13 | 13.81 | Peak | 125 | 108 |
| 9 | 16500.00 | 56.01 | 68.20 | -12.19 | 40.35 | 15.66 | Peak | 116 | 91 |

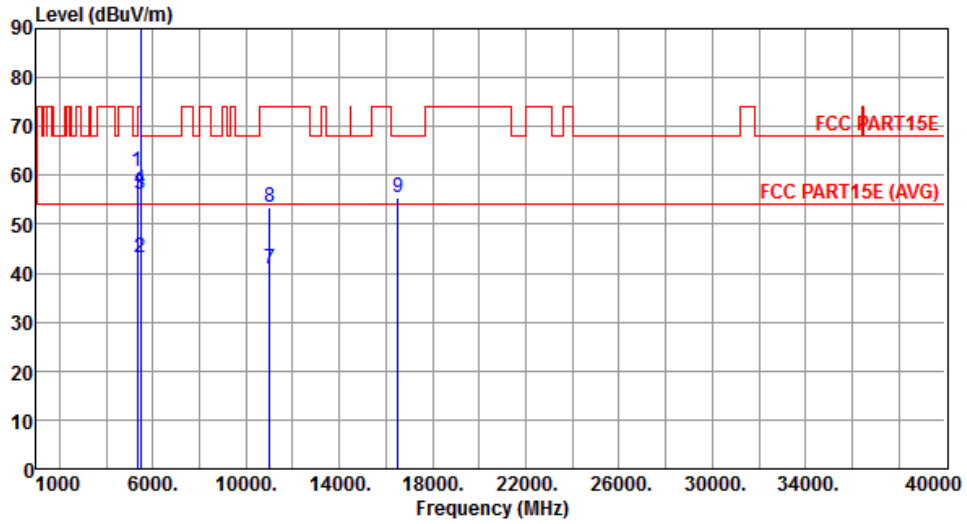
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5500 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5340.00 | 60.64 | 68.20 | -7.56 | 58.97 | 1.67 | Peak | 206 | 8 |
| 2 | 5460.00 | 43.03 | 54.00 | -10.97 | 41.16 | 1.87 | Average | 206 | 8 |
| 3 | 5460.00 | 56.08 | 74.00 | -17.92 | 54.21 | 1.87 | Peak | 206 | 8 |
| 4 | 5470.00 | 57.01 | 68.20 | -11.19 | 55.13 | 1.88 | Peak | 206 | 8 |
| 5 * | 5500.00 | 100.41 | | | 98.48 | 1.93 | Average | 206 | 8 |
| 6 * | 5500.00 | 109.65 | | | 107.72 | 1.93 | Peak | 206 | 8 |
| 7 | 11000.00 | 40.93 | 54.00 | -13.07 | 27.12 | 13.81 | Average | 123 | 25 |
| 8 | 11000.00 | 53.45 | 74.00 | -20.55 | 39.64 | 13.81 | Peak | 123 | 25 |
| 9 | 16500.00 | 55.61 | 68.20 | -12.59 | 39.95 | 15.66 | Peak | 129 | 24 |

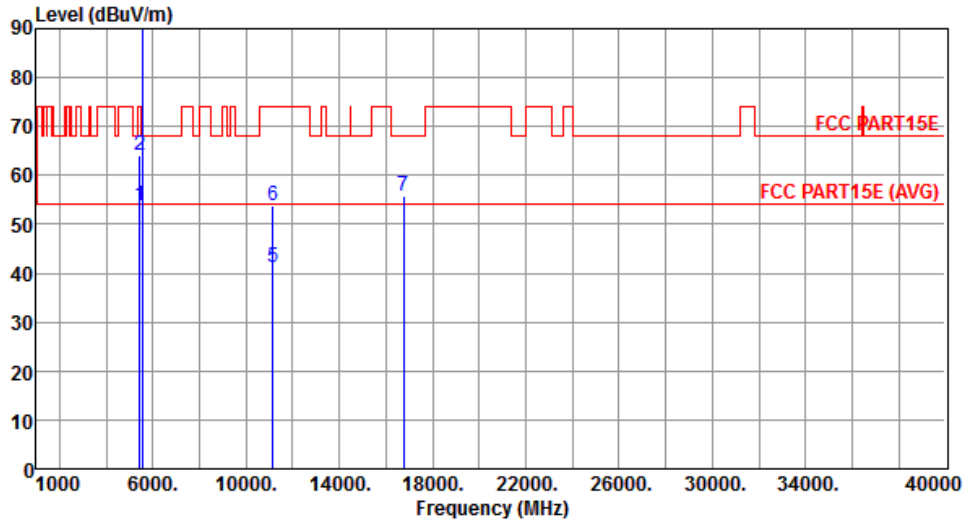
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5580 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5420.00 | 53.65 | 54.00 | -0.35 | 51.83 | 1.82 | Average | 190 | 293 |
| 2 | 5420.00 | 63.97 | 74.00 | -10.03 | 62.15 | 1.82 | Peak | 190 | 293 |
| 3 * | 5580.00 | 106.01 | | | 103.94 | 2.07 | Average | 190 | 293 |
| 4 * | 5580.00 | 115.30 | | | 113.23 | 2.07 | Peak | 190 | 293 |
| 5 | 11160.00 | 41.02 | 54.00 | -12.98 | 27.03 | 13.99 | Average | 129 | 113 |
| 6 | 11160.00 | 53.68 | 74.00 | -20.32 | 39.69 | 13.99 | Peak | 129 | 113 |
| 7 | 16740.00 | 55.89 | 68.20 | -12.31 | 40.14 | 15.75 | Peak | 113 | 98 |

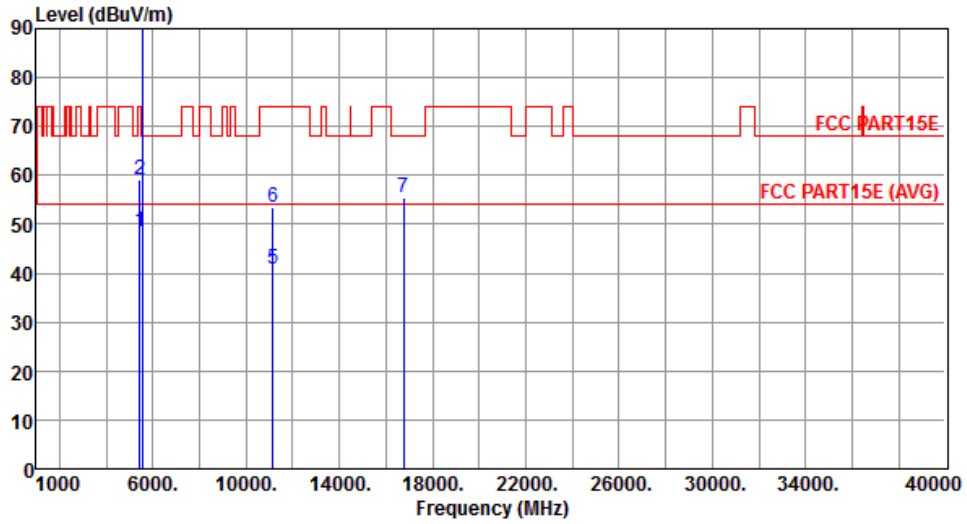
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5580 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5420.00 | 48.36 | 54.00 | -5.64 | 46.54 | 1.82 | Average | 202 | 13 |
| 2 | 5420.00 | 59.25 | 74.00 | -14.75 | 57.43 | 1.82 | Peak | 202 | 13 |
| 3 * | 5580.00 | 99.35 | | | 97.28 | 2.07 | Average | 202 | 13 |
| 4 * | 5580.00 | 108.52 | | | 106.45 | 2.07 | Peak | 202 | 13 |
| 5 | 11160.00 | 40.81 | 54.00 | -13.19 | 26.82 | 13.99 | Average | 121 | 29 |
| 6 | 11160.00 | 53.35 | 74.00 | -20.65 | 39.36 | 13.99 | Peak | 121 | 29 |
| 7 | 16740.00 | 55.36 | 68.20 | -12.84 | 39.61 | 15.75 | Peak | 122 | 24 |

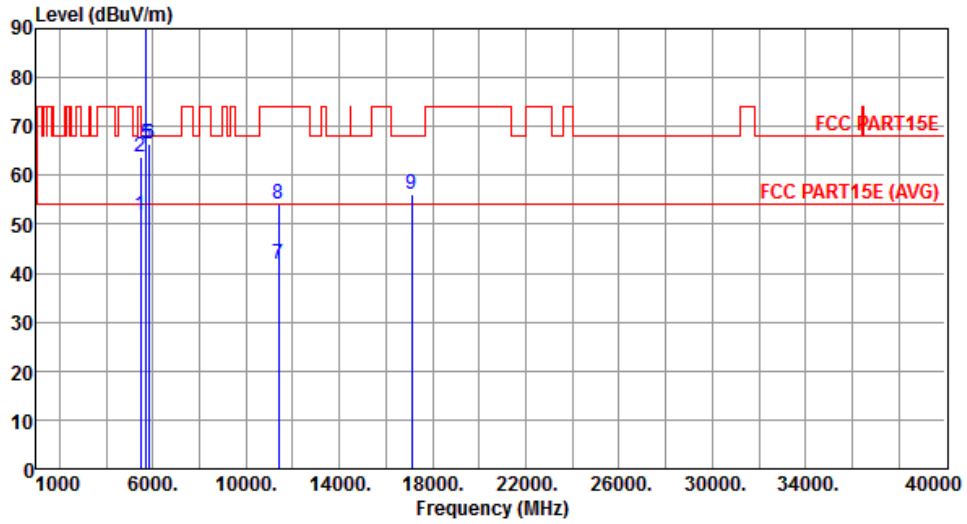
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5700 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 51.95 | 54.00 | -2.05 | 50.08 | 1.87 | Average | 194 | 290 |
| 2 | 5460.00 | 63.85 | 74.00 | -10.15 | 61.98 | 1.87 | Peak | 194 | 290 |
| 3 * | 5700.00 | 106.54 | | | 104.17 | 2.37 | Average | 191 | 299 |
| 4 * | 5700.00 | 115.74 | | | 113.37 | 2.37 | Peak | 191 | 299 |
| 5 | 5725.00 | 66.46 | 68.20 | -1.74 | 64.03 | 2.43 | Peak | 191 | 299 |
| 6 | 5860.00 | 66.40 | 68.20 | -1.80 | 63.66 | 2.74 | Peak | 191 | 299 |
| 7 | 11400.00 | 41.68 | 54.00 | -12.32 | 27.43 | 14.25 | Average | 121 | 116 |
| 8 | 11400.00 | 54.19 | 74.00 | -19.81 | 39.94 | 14.25 | Peak | 121 | 116 |
| 9 | 17100.00 | 56.21 | 68.20 | -11.99 | 40.02 | 16.19 | Peak | 115 | 103 |

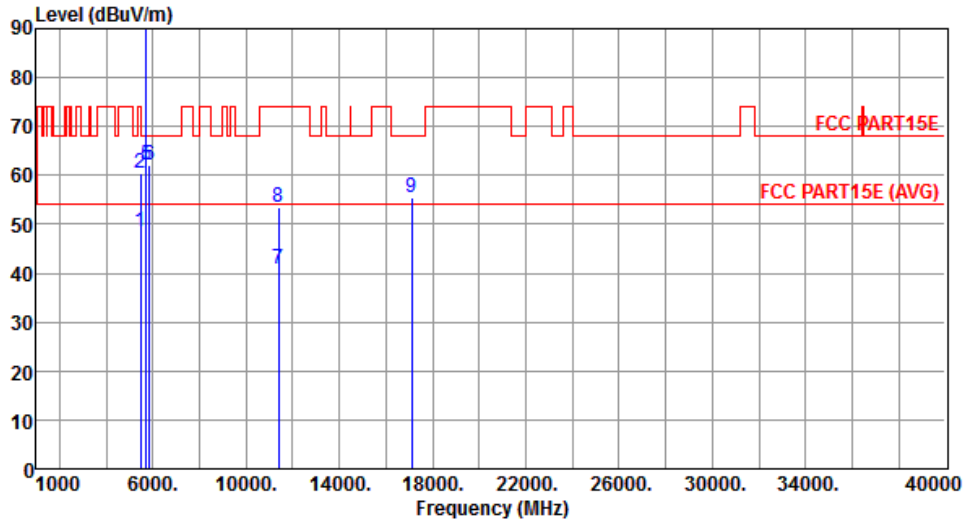
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5700 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 48.62 | 54.00 | -5.38 | 46.75 | 1.87 | Average | 203 | 15 |
| 2 | 5460.00 | 60.59 | 74.00 | -13.41 | 58.72 | 1.87 | Peak | 203 | 15 |
| 3 * | 5700.00 | 99.84 | | | 97.47 | 2.37 | Average | 203 | 15 |
| 4 * | 5700.00 | 109.12 | | | 106.75 | 2.37 | Peak | 203 | 15 |
| 5 | 5725.00 | 62.21 | 68.20 | -5.99 | 59.78 | 2.43 | Peak | 203 | 15 |
| 6 | 5860.00 | 62.08 | 68.20 | -6.12 | 59.34 | 2.74 | Peak | 203 | 15 |
| 7 | 11400.00 | 40.95 | 54.00 | -13.05 | 26.70 | 14.25 | Average | 123 | 44 |
| 8 | 11400.00 | 53.46 | 74.00 | -20.54 | 39.21 | 14.25 | Peak | 123 | 44 |
| 9 | 17100.00 | 55.48 | 68.20 | -12.72 | 39.29 | 16.19 | Peak | 125 | 31 |

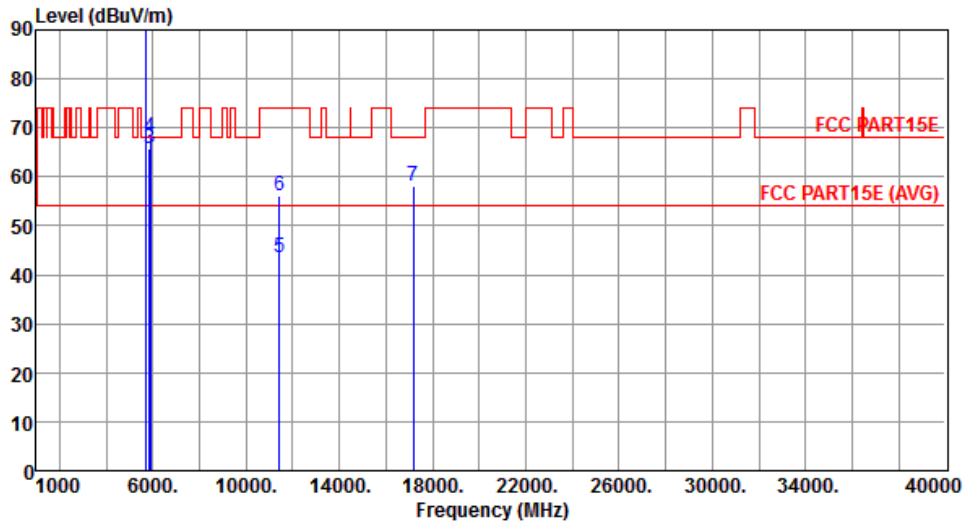
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5720 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 * | 5720.00 | 106.66 | | | 104.26 | 2.40 | Average | 196 | 47 |
| 2 * | 5720.00 | 116.40 | | | 114.00 | 2.40 | Peak | 196 | 47 |
| 3 | 5850.00 | 65.80 | 68.20 | -2.40 | 63.09 | 2.71 | Peak | 196 | 47 |
| 4 | 5880.00 | 67.92 | 68.20 | -0.28 | 65.14 | 2.78 | Peak | 199 | 50 |
| 5 | 11440.00 | 43.52 | 54.00 | -10.48 | 29.23 | 14.29 | Average | 124 | 119 |
| 6 | 11440.00 | 56.08 | 74.00 | -17.92 | 41.79 | 14.29 | Peak | 124 | 119 |
| 7 | 17160.00 | 58.14 | 68.20 | -10.06 | 41.74 | 16.40 | Peak | 116 | 108 |

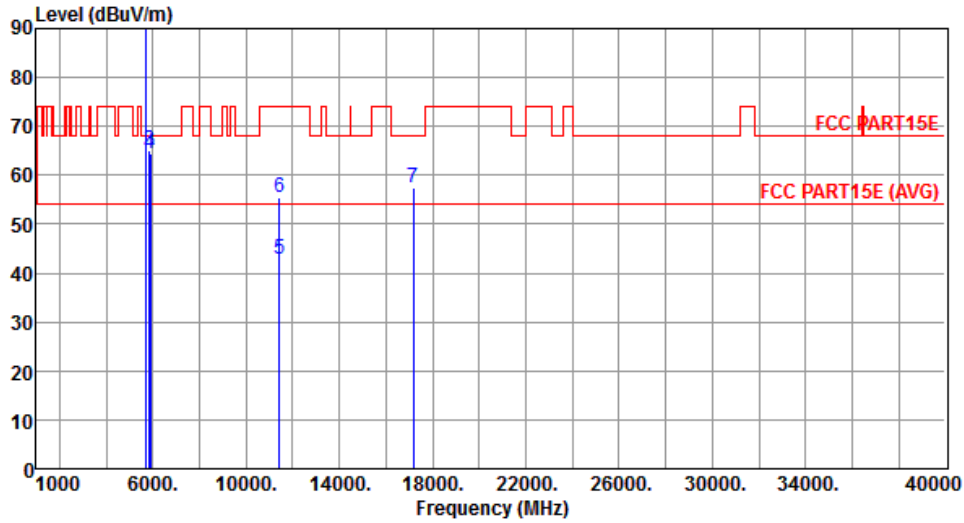
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | 11a | Test Freq. (MHz) | 5720 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5720.00 | 99.85 | | | 97.45 | 2.40 | Average | 201 | 16 |
| 2 | * | 5720.00 | 109.46 | | | 107.06 | 2.40 | Peak | 201 | 16 |
| 3 | | 5850.00 | 65.25 | 68.20 | -2.95 | 62.54 | 2.71 | Peak | 201 | 16 |
| 4 | | 5880.00 | 64.28 | 68.20 | -3.92 | 61.50 | 2.78 | Peak | 201 | 16 |
| 5 | | 11440.00 | 42.82 | 54.00 | -11.18 | 28.53 | 14.29 | Average | 125 | 31 |
| 6 | | 11440.00 | 55.36 | 74.00 | -18.64 | 41.07 | 14.29 | Peak | 125 | 31 |
| 7 | | 17160.00 | 57.41 | 68.20 | -10.79 | 41.01 | 16.40 | Peak | 126 | 38 |

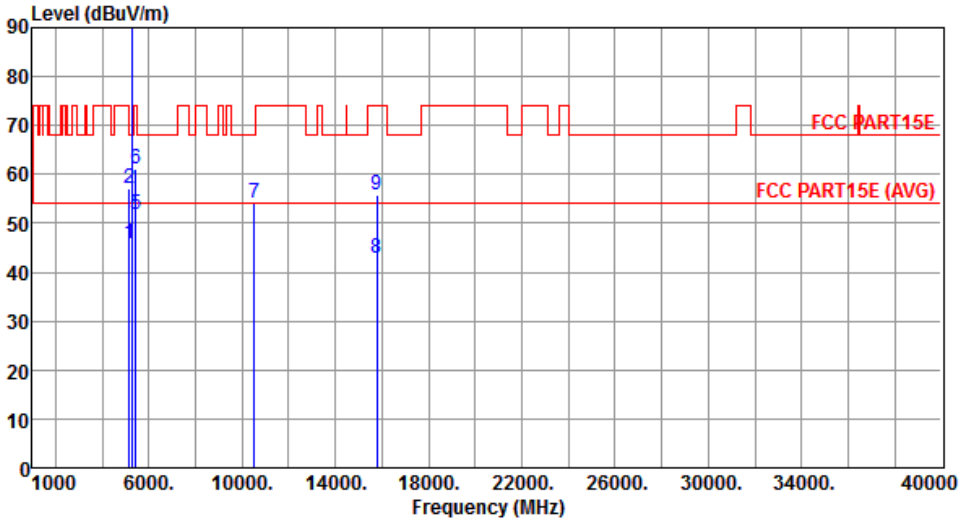
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

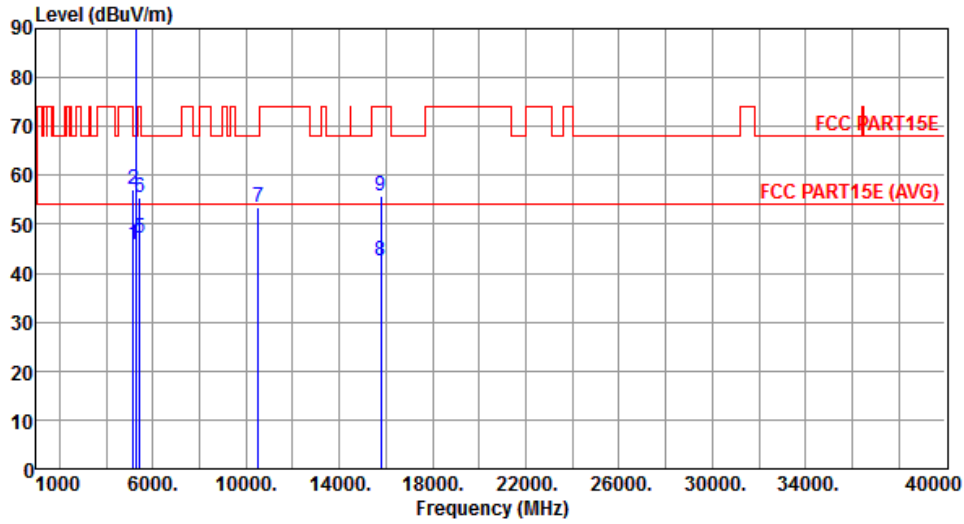
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

| Modulation | VHT20 | Test Freq. (MHz) | 5260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|------------------|----------------|------------|--------|------------|----------|------------|----------|------------|-----|--------|--------|----|------|----|--|----|-----|---|---------|-------|-------|-------|-------|------|---------|-----|-----|---|---------|-------|-------|--------|-------|------|------|-----|-----|-----|---------|--------|--|--|--------|------|---------|-----|-----|-----|---------|--------|--|--|--------|------|------|-----|-----|---|---------|-------|-------|-------|-------|------|---------|-----|-----|---|---------|-------|-------|--------|-------|------|------|-----|-----|---|----------|-------|-------|--------|-------|-------|------|-----|-----|---|----------|-------|-------|--------|-------|-------|---------|-----|-----|---|----------|-------|-------|--------|-------|-------|------|-----|-----|
| Polarization | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High</th> <th>Turn Table</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>45.96</td> <td>54.00</td> <td>-8.04</td> <td>44.61</td> <td>1.35</td> <td>Average</td> <td>213</td> <td>292</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>57.24</td> <td>74.00</td> <td>-16.76</td> <td>55.89</td> <td>1.35</td> <td>Peak</td> <td>213</td> <td>292</td> </tr> <tr> <td>3 *</td> <td>5260.00</td> <td>106.32</td> <td></td> <td></td> <td>104.78</td> <td>1.54</td> <td>Average</td> <td>213</td> <td>292</td> </tr> <tr> <td>4 *</td> <td>5260.00</td> <td>117.64</td> <td></td> <td></td> <td>116.10</td> <td>1.54</td> <td>Peak</td> <td>213</td> <td>292</td> </tr> <tr> <td>5</td> <td>5420.00</td> <td>51.93</td> <td>54.00</td> <td>-2.07</td> <td>50.11</td> <td>1.82</td> <td>Average</td> <td>213</td> <td>292</td> </tr> <tr> <td>6</td> <td>5420.00</td> <td>61.06</td> <td>74.00</td> <td>-12.94</td> <td>59.24</td> <td>1.82</td> <td>Peak</td> <td>213</td> <td>292</td> </tr> <tr> <td>7</td> <td>10520.00</td> <td>53.98</td> <td>68.20</td> <td>-14.22</td> <td>41.23</td> <td>12.75</td> <td>Peak</td> <td>119</td> <td>109</td> </tr> <tr> <td>8</td> <td>15780.00</td> <td>42.74</td> <td>54.00</td> <td>-11.26</td> <td>28.35</td> <td>14.39</td> <td>Average</td> <td>109</td> <td>101</td> </tr> <tr> <td>9</td> <td>15780.00</td> <td>55.81</td> <td>74.00</td> <td>-18.19</td> <td>41.42</td> <td>14.39</td> <td>Peak</td> <td>109</td> <td>101</td> </tr> </tbody> </table> | Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | | cm | deg | 1 | 5150.00 | 45.96 | 54.00 | -8.04 | 44.61 | 1.35 | Average | 213 | 292 | 2 | 5150.00 | 57.24 | 74.00 | -16.76 | 55.89 | 1.35 | Peak | 213 | 292 | 3 * | 5260.00 | 106.32 | | | 104.78 | 1.54 | Average | 213 | 292 | 4 * | 5260.00 | 117.64 | | | 116.10 | 1.54 | Peak | 213 | 292 | 5 | 5420.00 | 51.93 | 54.00 | -2.07 | 50.11 | 1.82 | Average | 213 | 292 | 6 | 5420.00 | 61.06 | 74.00 | -12.94 | 59.24 | 1.82 | Peak | 213 | 292 | 7 | 10520.00 | 53.98 | 68.20 | -14.22 | 41.23 | 12.75 | Peak | 119 | 109 | 8 | 15780.00 | 42.74 | 54.00 | -11.26 | 28.35 | 14.39 | Average | 109 | 101 | 9 | 15780.00 | 55.81 | 74.00 | -18.19 | 41.42 | 14.39 | Peak | 109 | 101 |
| Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB | | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5150.00 | 45.96 | 54.00 | -8.04 | 44.61 | 1.35 | Average | 213 | 292 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5150.00 | 57.24 | 74.00 | -16.76 | 55.89 | 1.35 | Peak | 213 | 292 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 * | 5260.00 | 106.32 | | | 104.78 | 1.54 | Average | 213 | 292 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 * | 5260.00 | 117.64 | | | 116.10 | 1.54 | Peak | 213 | 292 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5420.00 | 51.93 | 54.00 | -2.07 | 50.11 | 1.82 | Average | 213 | 292 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5420.00 | 61.06 | 74.00 | -12.94 | 59.24 | 1.82 | Peak | 213 | 292 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 10520.00 | 53.98 | 68.20 | -14.22 | 41.23 | 12.75 | Peak | 119 | 109 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 15780.00 | 42.74 | 54.00 | -11.26 | 28.35 | 14.39 | Average | 109 | 101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 15780.00 | 55.81 | 74.00 | -18.19 | 41.42 | 14.39 | Peak | 109 | 101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>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: "*" is Peak / Average value of fundamental frequency</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5260 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00 | 45.81 | 54.00 | -8.19 | 44.46 | 1.35 | Average | 201 | 9 |
| 2 | 5150.00 | 57.08 | 74.00 | -16.92 | 55.73 | 1.35 | Peak | 201 | 9 |
| 3 * | 5260.00 | 100.78 | | | 99.24 | 1.54 | Average | 201 | 9 |
| 4 * | 5260.00 | 111.96 | | | 110.42 | 1.54 | Peak | 201 | 9 |
| 5 | 5420.00 | 47.25 | 54.00 | -6.75 | 45.43 | 1.82 | Average | 201 | 9 |
| 6 | 5420.00 | 55.49 | 74.00 | -18.51 | 53.67 | 1.82 | Peak | 201 | 9 |
| 7 | 10520.00 | 53.42 | 68.20 | -14.78 | 40.67 | 12.75 | Peak | 129 | 18 |
| 8 | 15780.00 | 42.56 | 54.00 | -11.44 | 28.17 | 14.39 | Average | 132 | 25 |
| 9 | 15780.00 | 55.63 | 74.00 | -18.37 | 41.24 | 14.39 | Peak | 132 | 25 |

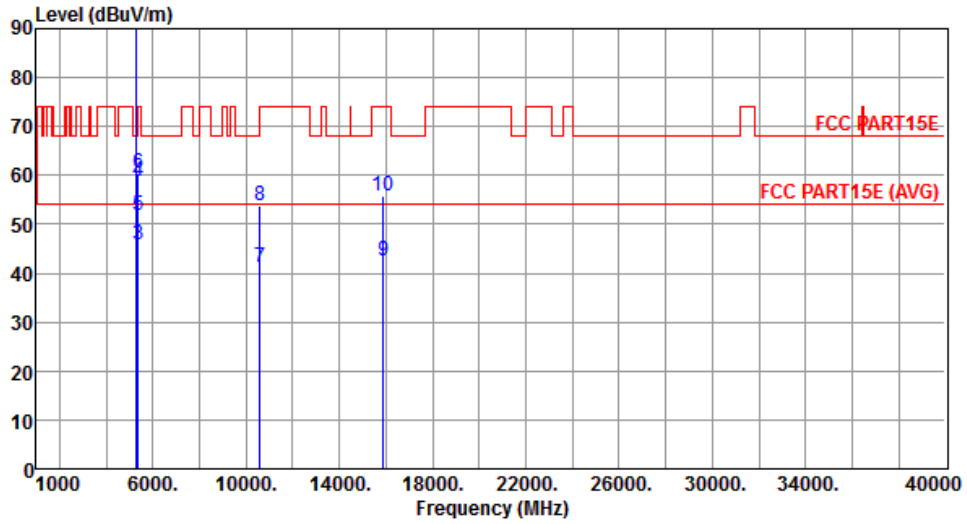
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5300 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5300.00 | 106.21 | | | 104.61 | 1.60 | Average | 210 | 288 |
| 2 | * | 5300.00 | 117.64 | | | 116.04 | 1.60 | Peak | 210 | 288 |
| 3 | | 5350.00 | 45.86 | 54.00 | -8.14 | 44.17 | 1.69 | Average | 210 | 288 |
| 4 | | 5350.00 | 58.65 | 74.00 | -15.35 | 56.96 | 1.69 | Peak | 210 | 288 |
| 5 | | 5380.00 | 51.86 | 54.00 | -2.14 | 50.11 | 1.75 | Average | 210 | 288 |
| 6 | | 5380.00 | 60.31 | 74.00 | -13.69 | 58.56 | 1.75 | Peak | 210 | 288 |
| 7 | | 10600.00 | 41.21 | 54.00 | -12.79 | 28.28 | 12.93 | Average | 119 | 134 |
| 8 | | 10600.00 | 53.84 | 74.00 | -20.16 | 40.91 | 12.93 | Peak | 119 | 134 |
| 9 | | 15900.00 | 42.65 | 54.00 | -11.35 | 28.35 | 14.30 | Average | 110 | 99 |
| 10 | | 15900.00 | 55.73 | 74.00 | -18.27 | 41.43 | 14.30 | Peak | 110 | 99 |

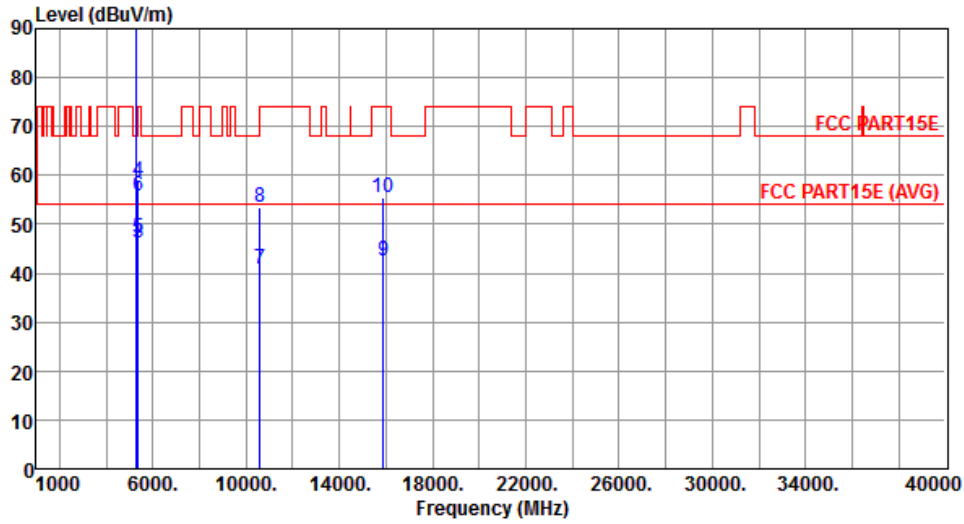
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5300 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5300.00 | 100.53 | | | 98.93 | 1.60 | Average | 209 | 18 |
| 2 | * | 5300.00 | 111.79 | | | 110.19 | 1.60 | Peak | 209 | 18 |
| 3 | | 5350.00 | 46.13 | 54.00 | -7.87 | 44.44 | 1.69 | Average | 209 | 18 |
| 4 | | 5350.00 | 58.94 | 74.00 | -15.06 | 57.25 | 1.69 | Peak | 209 | 18 |
| 5 | | 5380.00 | 47.26 | 54.00 | -6.74 | 45.51 | 1.75 | Average | 209 | 18 |
| 6 | | 5380.00 | 55.74 | 74.00 | -18.26 | 53.99 | 1.75 | Peak | 209 | 18 |
| 7 | | 10600.00 | 40.95 | 54.00 | -13.05 | 28.02 | 12.93 | Average | 128 | 23 |
| 8 | | 10600.00 | 53.62 | 74.00 | -20.38 | 40.69 | 12.93 | Peak | 128 | 23 |
| 9 | | 15900.00 | 42.45 | 54.00 | -11.55 | 28.15 | 14.30 | Average | 121 | 20 |
| 10 | | 15900.00 | 55.58 | 74.00 | -18.42 | 41.28 | 14.30 | Peak | 121 | 20 |

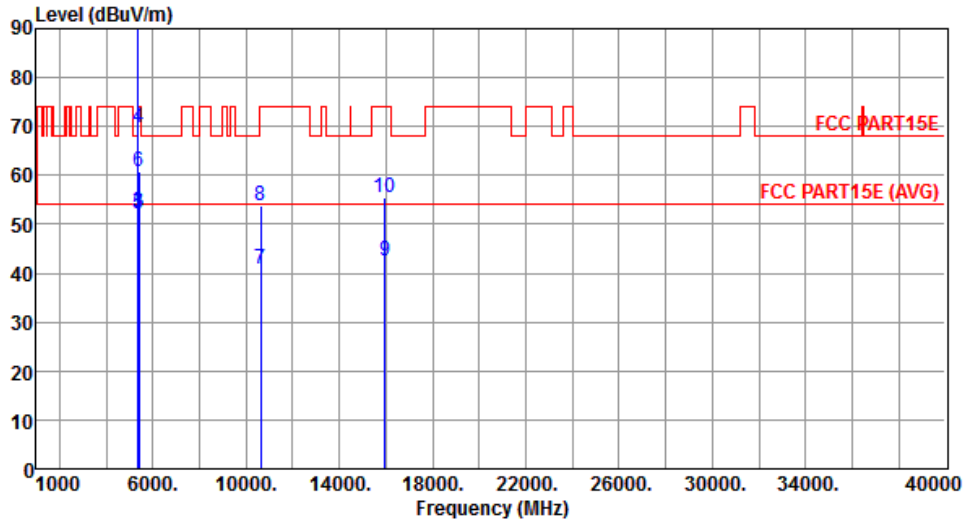
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5320 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5320.00 | 106.05 | | | 104.41 | 1.64 | Average | 208 | 286 |
| 2 | * | 5320.00 | 118.08 | | | 116.44 | 1.64 | Peak | 208 | 286 |
| 3 | | 5350.00 | 52.58 | 54.00 | -1.42 | 50.89 | 1.69 | Average | 208 | 286 |
| 4 | | 5350.00 | 69.84 | 74.00 | -4.16 | 68.15 | 1.69 | Peak | 208 | 286 |
| 5 | | 5400.00 | 51.99 | 54.00 | -2.01 | 50.21 | 1.78 | Average | 208 | 286 |
| 6 | | 5400.00 | 60.91 | 74.00 | -13.09 | 59.13 | 1.78 | Peak | 208 | 286 |
| 7 | | 10640.00 | 40.95 | 54.00 | -13.05 | 27.93 | 13.02 | Average | 121 | 134 |
| 8 | | 10640.00 | 53.64 | 74.00 | -20.36 | 40.62 | 13.02 | Peak | 121 | 134 |
| 9 | | 15960.00 | 42.58 | 54.00 | -11.42 | 28.33 | 14.25 | Average | 103 | 99 |
| 10 | | 15960.00 | 55.62 | 74.00 | -18.38 | 41.37 | 14.25 | Peak | 103 | 99 |

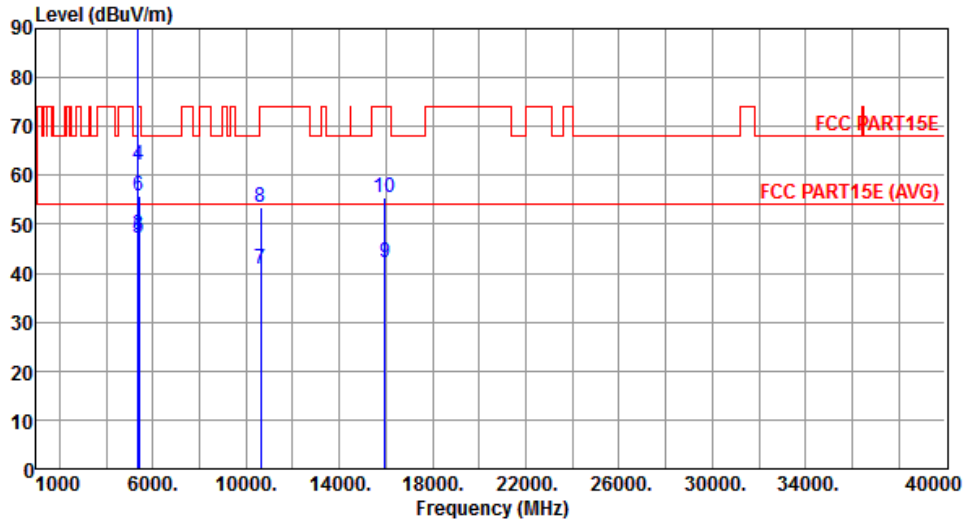
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5320 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5320.00 | 100.91 | | | 99.27 | 1.64 | Average | 205 | 6 |
| 2 | * | 5320.00 | 112.14 | | | 110.50 | 1.64 | Peak | 205 | 6 |
| 3 | | 5350.00 | 47.96 | 54.00 | -6.04 | 46.27 | 1.69 | Average | 205 | 6 |
| 4 | | 5350.00 | 62.24 | 74.00 | -11.76 | 60.55 | 1.69 | Peak | 205 | 6 |
| 5 | | 5400.00 | 47.13 | 54.00 | -6.87 | 45.35 | 1.78 | Average | 205 | 6 |
| 6 | | 5400.00 | 55.93 | 74.00 | -18.07 | 54.15 | 1.78 | Peak | 205 | 6 |
| 7 | | 10640.00 | 40.84 | 54.00 | -13.16 | 27.82 | 13.02 | Average | 129 | 15 |
| 8 | | 10640.00 | 53.47 | 74.00 | -20.53 | 40.45 | 13.02 | Peak | 129 | 15 |
| 9 | | 15960.00 | 42.33 | 54.00 | -11.67 | 28.08 | 14.25 | Average | 135 | 26 |
| 10 | | 15960.00 | 55.49 | 74.00 | -18.51 | 41.24 | 14.25 | Peak | 135 | 26 |

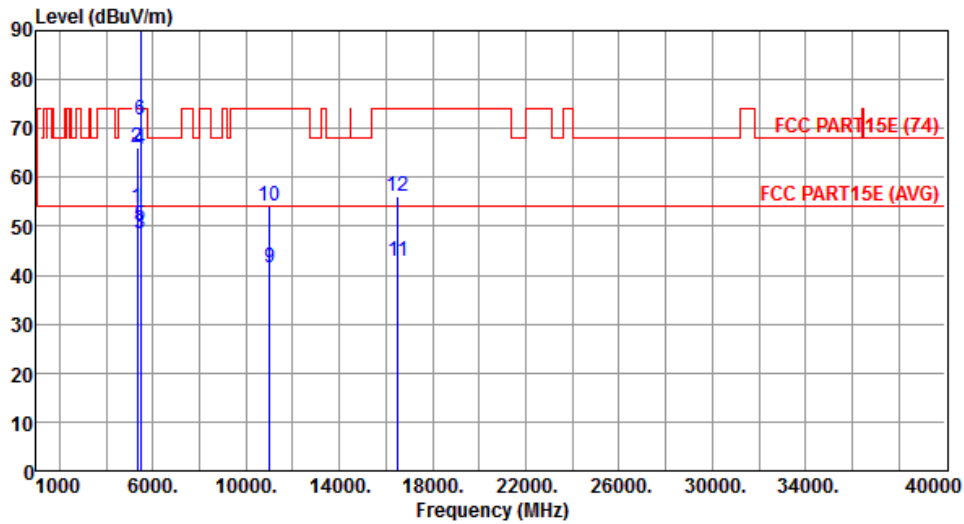
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5500 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5340.00 | 53.72 | 54.00 | -0.28 | 52.05 | 1.67 | Average | 207 | 285 |
| 2 | 5340.00 | 66.13 | 74.00 | -7.87 | 64.46 | 1.67 | Peak | 207 | 285 |
| 3 | 5460.00 | 48.40 | 54.00 | -5.60 | 46.53 | 1.87 | Average | 206 | 285 |
| 4 | 5460.00 | 65.76 | 74.00 | -8.24 | 63.89 | 1.87 | Peak | 206 | 285 |
| 5 | 5470.00 | 50.09 | 54.00 | -3.91 | 48.21 | 1.88 | Average | 206 | 285 |
| 6 | 5470.00 | 71.57 | 74.00 | -2.43 | 69.69 | 1.88 | Peak | 206 | 285 |
| 7 * | 5500.00 | 105.72 | | | 103.79 | 1.93 | Average | 206 | 285 |
| 8 * | 5500.00 | 117.25 | | | 115.32 | 1.93 | Peak | 206 | 285 |
| 9 | 11000.00 | 41.46 | 54.00 | -12.54 | 27.65 | 13.81 | Average | 128 | 113 |
| 10 | 11000.00 | 54.15 | 74.00 | -19.85 | 40.34 | 13.81 | Peak | 128 | 113 |
| 11 | 16500.00 | 42.93 | 54.00 | -11.07 | 27.27 | 15.66 | Average | 115 | 94 |
| 12 | 16500.00 | 56.14 | 74.00 | -17.86 | 40.48 | 15.66 | Peak | 115 | 94 |

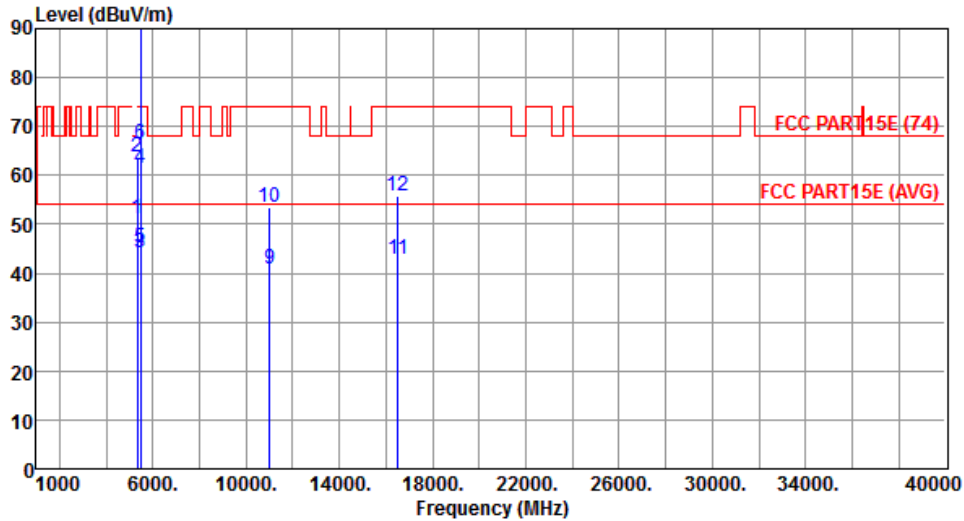
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5500 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5340.00 | 51.26 | 54.00 | -2.74 | 49.59 | 1.67 | Average | 209 | 8 |
| 2 | 5340.00 | 63.82 | 74.00 | -10.18 | 62.15 | 1.67 | Peak | 209 | 8 |
| 3 | 5460.00 | 44.25 | 54.00 | -9.75 | 42.38 | 1.87 | Average | 209 | 8 |
| 4 | 5460.00 | 61.39 | 74.00 | -12.61 | 59.52 | 1.87 | Peak | 209 | 8 |
| 5 | 5470.00 | 45.24 | 54.00 | -8.76 | 43.36 | 1.88 | Average | 209 | 8 |
| 6 | 5470.00 | 66.31 | 74.00 | -7.69 | 64.43 | 1.88 | Peak | 209 | 8 |
| 7 * | 5500.00 | 100.08 | | | 98.15 | 1.93 | Average | 209 | 8 |
| 8 * | 5500.00 | 111.72 | | | 109.79 | 1.93 | Peak | 209 | 8 |
| 9 | 11000.00 | 40.98 | 54.00 | -13.02 | 27.17 | 13.81 | Average | 121 | 25 |
| 10 | 11000.00 | 53.56 | 74.00 | -20.44 | 39.75 | 13.81 | Peak | 121 | 25 |
| 11 | 16500.00 | 42.69 | 54.00 | -11.31 | 27.03 | 15.66 | Average | 128 | 29 |
| 12 | 16500.00 | 55.74 | 74.00 | -18.26 | 40.08 | 15.66 | Peak | 128 | 29 |

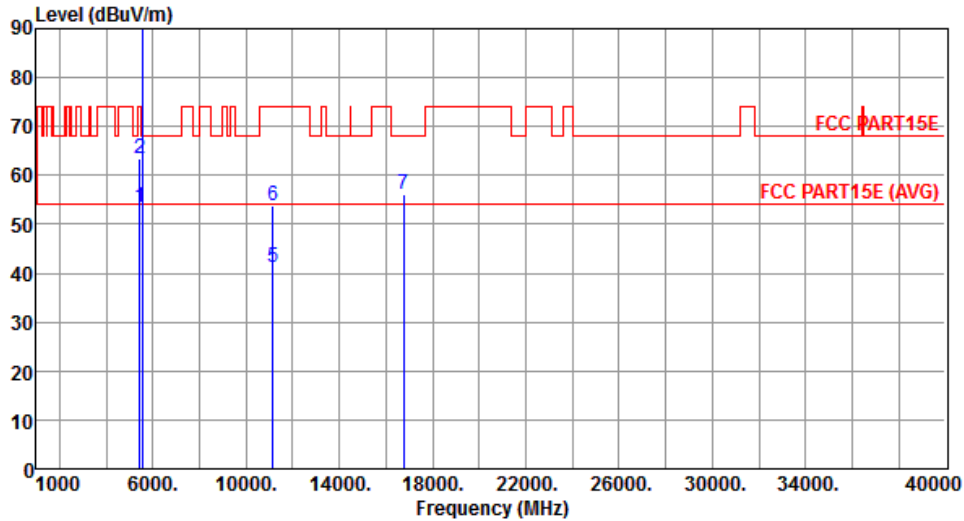
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5580 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5420.00 | 53.34 | 54.00 | -0.66 | 51.52 | 1.82 | Average | 191 | 293 |
| 2 | 5420.00 | 63.58 | 74.00 | -10.42 | 61.76 | 1.82 | Peak | 191 | 293 |
| 3 * | 5580.00 | 105.84 | | | 103.77 | 2.07 | Average | 191 | 293 |
| 4 * | 5580.00 | 117.16 | | | 115.09 | 2.07 | Peak | 191 | 293 |
| 5 | 11160.00 | 41.19 | 54.00 | -12.81 | 27.20 | 13.99 | Average | 122 | 119 |
| 6 | 11160.00 | 53.76 | 74.00 | -20.24 | 39.77 | 13.99 | Peak | 122 | 119 |
| 7 | 16740.00 | 55.96 | 68.20 | -12.24 | 40.21 | 15.75 | Peak | 115 | 102 |

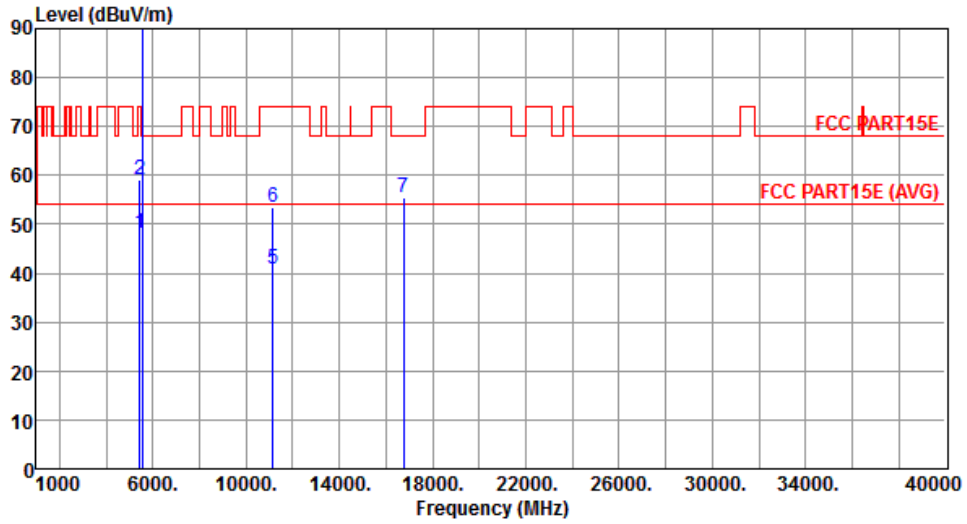
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5580 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5420.00 | 48.21 | 54.00 | -5.79 | 46.39 | 1.82 | Average | 201 | 15 |
| 2 | 5420.00 | 59.06 | 74.00 | -14.94 | 57.24 | 1.82 | Peak | 201 | 15 |
| 3 * | 5580.00 | 99.06 | | | 96.99 | 2.07 | Average | 201 | 15 |
| 4 * | 5580.00 | 110.29 | | | 108.22 | 2.07 | Peak | 201 | 15 |
| 5 | 11160.00 | 40.93 | 54.00 | -13.07 | 26.94 | 13.99 | Average | 123 | 34 |
| 6 | 11160.00 | 53.46 | 74.00 | -20.54 | 39.47 | 13.99 | Peak | 123 | 34 |
| 7 | 16740.00 | 55.49 | 68.20 | -12.71 | 39.74 | 15.75 | Peak | 119 | 28 |

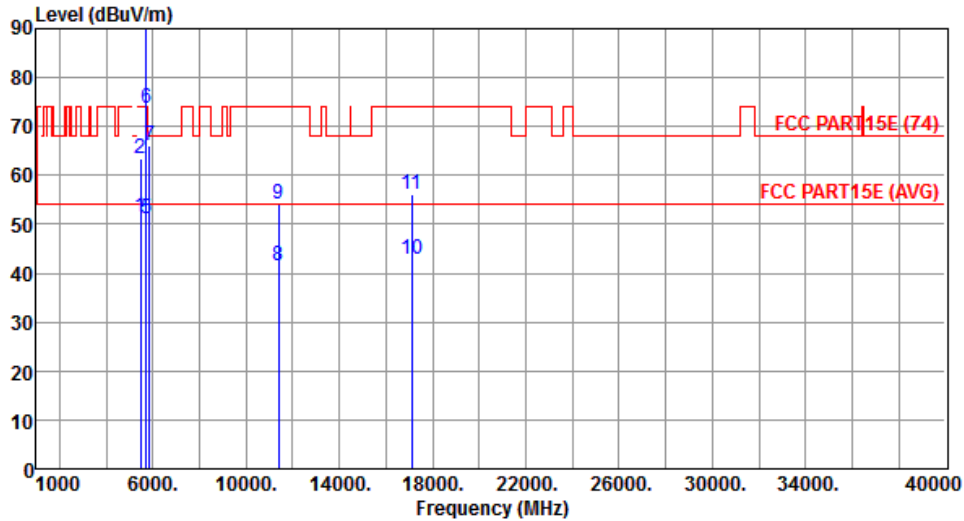
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5700 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 51.41 | 54.00 | -2.59 | 49.54 | 1.87 | Average | 193 | 289 |
| 2 | 5460.00 | 63.33 | 74.00 | -10.67 | 61.46 | 1.87 | Peak | 193 | 289 |
| 3 * | 5700.00 | 105.42 | | | 103.05 | 2.37 | Average | 193 | 289 |
| 4 * | 5700.00 | 116.65 | | | 114.28 | 2.37 | Peak | 193 | 289 |
| 5 | 5725.00 | 51.10 | 54.00 | -2.90 | 48.67 | 2.43 | Average | 193 | 289 |
| 6 | 5725.00 | 73.60 | 74.00 | -0.40 | 71.17 | 2.43 | Peak | 193 | 289 |
| 7 | 5860.00 | 65.96 | 68.20 | -2.24 | 63.22 | 2.74 | Peak | 191 | 289 |
| 8 | 11400.00 | 41.52 | 54.00 | -12.48 | 27.27 | 14.25 | Average | 122 | 114 |
| 9 | 11400.00 | 54.06 | 74.00 | -19.94 | 39.81 | 14.25 | Peak | 122 | 114 |
| 10 | 17100.00 | 42.84 | 54.00 | -11.16 | 26.65 | 16.19 | Average | 113 | 98 |
| 11 | 17100.00 | 56.09 | 74.00 | -17.91 | 39.90 | 16.19 | Peak | 113 | 98 |

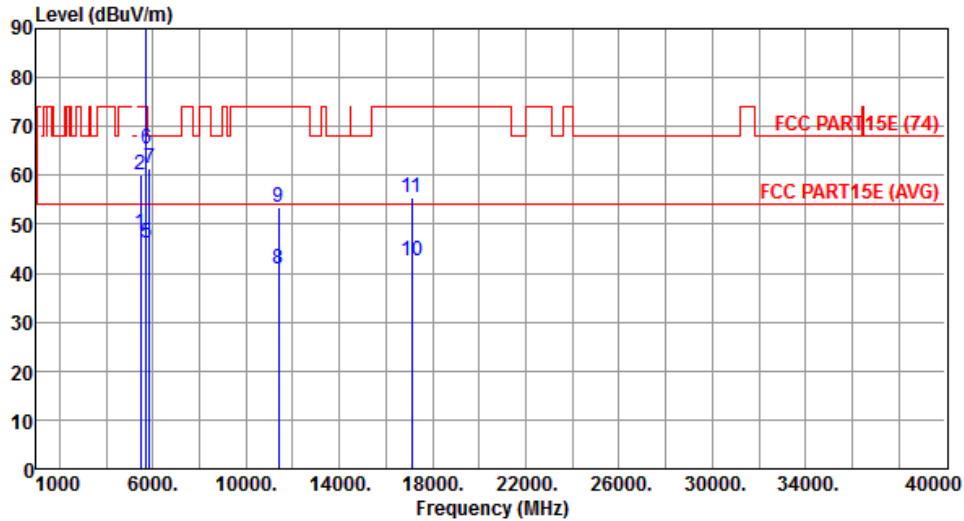
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5700 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 48.24 | 54.00 | -5.76 | 46.37 | 1.87 | Average | 201 | 19 |
| 2 | 5460.00 | 60.21 | 74.00 | -13.79 | 58.34 | 1.87 | Peak | 201 | 19 |
| 3 * | 5700.00 | 98.72 | | | 96.35 | 2.37 | Average | 201 | 19 |
| 4 * | 5700.00 | 111.03 | | | 108.66 | 2.37 | Peak | 201 | 19 |
| 5 | 5725.00 | 46.29 | 54.00 | -7.71 | 43.86 | 2.43 | Average | 201 | 19 |
| 6 | 5725.00 | 65.45 | 74.00 | -8.55 | 63.02 | 2.43 | Peak | 201 | 19 |
| 7 | 5860.00 | 61.53 | 68.20 | -6.67 | 58.79 | 2.74 | Peak | 201 | 19 |
| 8 | 11400.00 | 40.82 | 54.00 | -13.18 | 26.57 | 14.25 | Average | 121 | 49 |
| 9 | 11400.00 | 53.36 | 74.00 | -20.64 | 39.11 | 14.25 | Peak | 121 | 49 |
| 10 | 17100.00 | 42.39 | 54.00 | -11.61 | 26.20 | 16.19 | Average | 123 | 36 |
| 11 | 17100.00 | 55.31 | 74.00 | -18.69 | 39.12 | 16.19 | Peak | 123 | 36 |

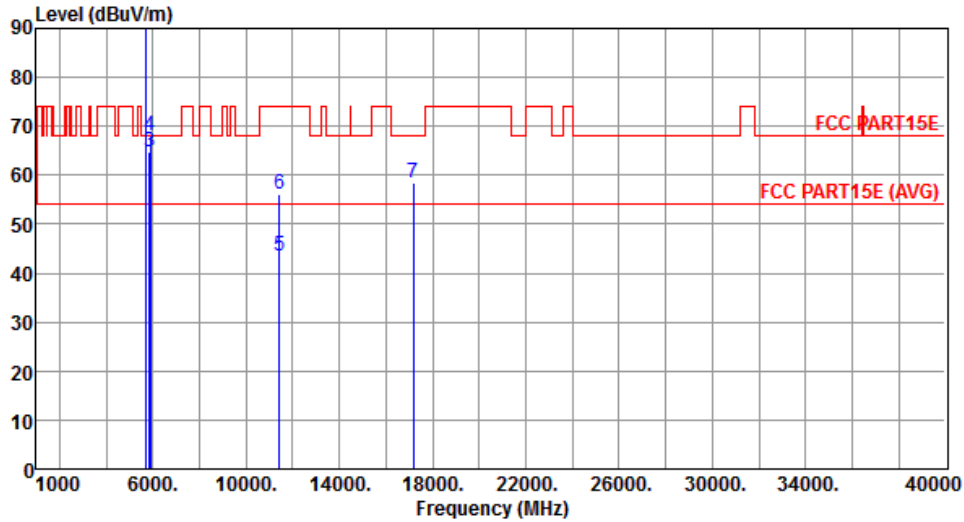
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5720 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5720.00 | 105.86 | | | 103.46 | 2.40 | Average | 206 | 58 |
| 2 | * | 5720.00 | 116.18 | | | 113.78 | 2.40 | Peak | 206 | 58 |
| 3 | | 5850.00 | 64.82 | 68.20 | -3.38 | 62.11 | 2.71 | Peak | 206 | 58 |
| 4 | | 5880.00 | 68.06 | 68.20 | -0.14 | 65.28 | 2.78 | Peak | 206 | 58 |
| 5 | | 11440.00 | 43.39 | 54.00 | -10.61 | 29.10 | 14.29 | Average | 100 | 122 |
| 6 | | 11440.00 | 56.14 | 74.00 | -17.86 | 41.85 | 14.29 | Peak | 100 | 122 |
| 7 | | 17160.00 | 58.29 | 68.20 | -9.91 | 41.89 | 16.40 | Peak | 100 | 117 |

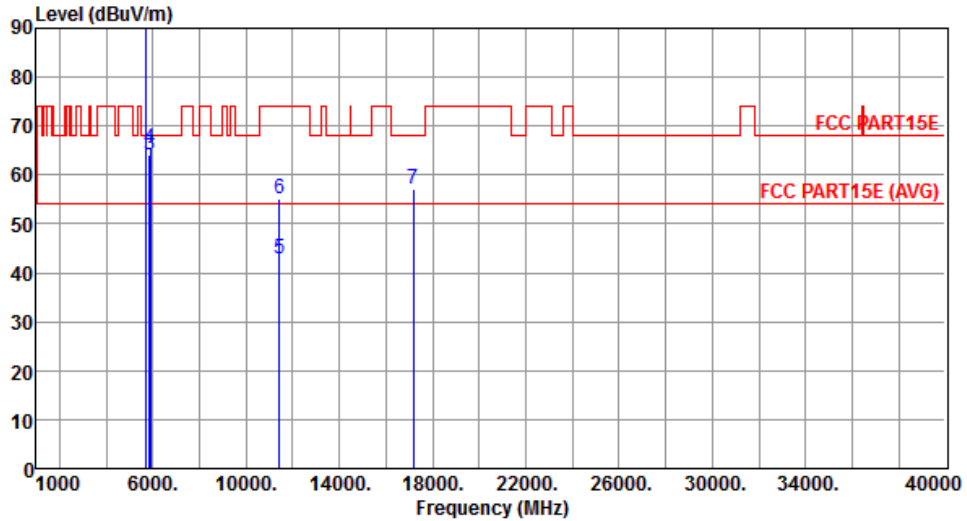
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5720 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5720.00 | 99.33 | | | 96.93 | 2.40 | Average | 226 | 349 |
| 2 | * | 5720.00 | 109.73 | | | 107.33 | 2.40 | Peak | 226 | 349 |
| 3 | | 5850.00 | 63.99 | 68.20 | -4.21 | 61.28 | 2.71 | Peak | 226 | 349 |
| 4 | | 5880.00 | 65.37 | 68.20 | -2.83 | 62.59 | 2.78 | Peak | 226 | 349 |
| 5 | | 11440.00 | 42.70 | 54.00 | -11.30 | 28.41 | 14.29 | Average | 100 | 46 |
| 6 | | 11440.00 | 55.15 | 74.00 | -18.85 | 40.86 | 14.29 | Peak | 100 | 46 |
| 7 | | 17160.00 | 57.28 | 68.20 | -10.92 | 40.88 | 16.40 | Peak | 100 | 75 |

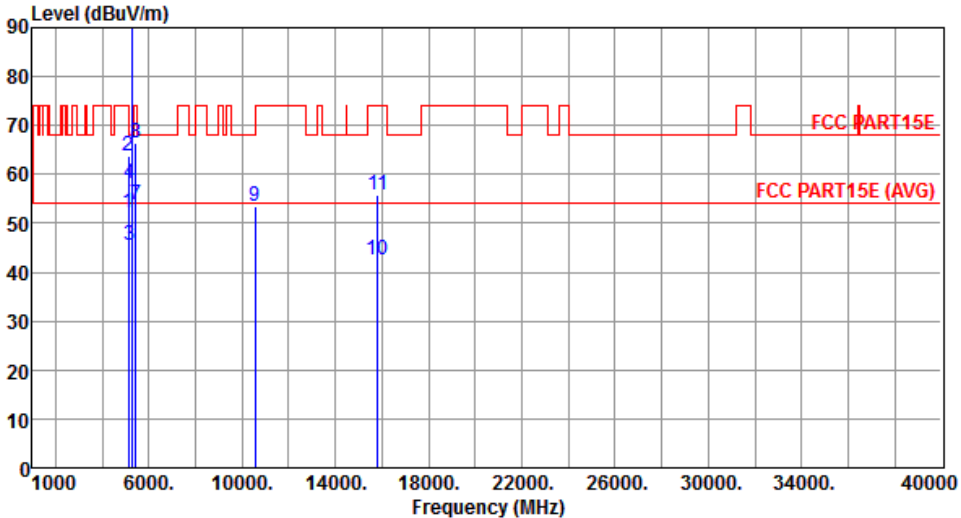
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

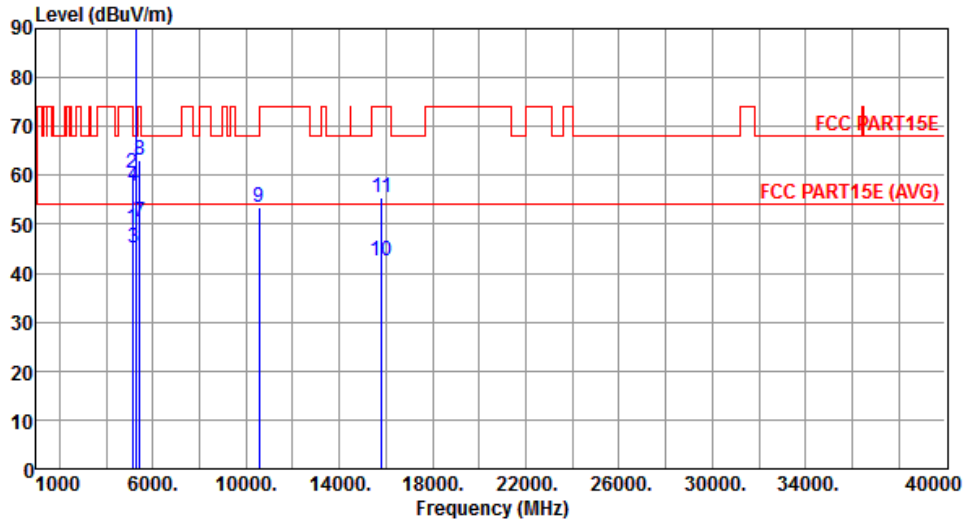
Note 3: "*" is Peak / Average value of fundamental frequency

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

| Modulation | VHT40 | Test Freq. (MHz) | 5270 | | | | | | |
|---|------------|------------------|--------|--------|------------|--------|---------|----------|------------|
| Polarization | Horizontal | | | | | | | | |
|  | | | | | | | | | |
| | Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | | cm | deg |
| 1 | 5110.00 | 52.30 | 54.00 | -1.70 | 51.02 | 1.28 | Average | 198 | 285 |
| 2 | 5110.00 | 63.81 | 74.00 | -10.19 | 62.53 | 1.28 | Peak | 198 | 285 |
| 3 | 5150.00 | 45.41 | 54.00 | -8.59 | 44.06 | 1.35 | Average | 198 | 285 |
| 4 | 5150.00 | 58.03 | 74.00 | -15.97 | 56.68 | 1.35 | Peak | 198 | 285 |
| 5 * | 5270.00 | 105.09 | | | 103.54 | 1.55 | Average | 216 | 286 |
| 6 * | 5270.00 | 117.21 | | | 115.66 | 1.55 | Peak | 216 | 286 |
| 7 | 5430.00 | 53.87 | 54.00 | -0.13 | 52.04 | 1.83 | Average | 207 | 288 |
| 8 | 5430.00 | 66.35 | 74.00 | -7.65 | 64.52 | 1.83 | Peak | 207 | 288 |
| 9 | 10540.00 | 53.62 | 68.20 | -14.58 | 40.82 | 12.80 | Peak | 121 | 103 |
| 10 | 15810.00 | 42.59 | 54.00 | -11.41 | 28.22 | 14.37 | Average | 111 | 96 |
| 11 | 15810.00 | 55.63 | 74.00 | -18.37 | 41.26 | 14.37 | Peak | 111 | 96 |

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: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5270 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5110.00 | 49.26 | 54.00 | -4.74 | 47.98 | 1.28 | Average | 203 | 11 |
| 2 | 5110.00 | 60.53 | 74.00 | -13.47 | 59.25 | 1.28 | Peak | 203 | 11 |
| 3 | 5150.00 | 45.26 | 54.00 | -8.74 | 43.91 | 1.35 | Average | 203 | 11 |
| 4 | 5150.00 | 57.94 | 74.00 | -16.06 | 56.59 | 1.35 | Peak | 203 | 11 |
| 5 * | 5270.00 | 99.25 | | | 97.70 | 1.55 | Average | 203 | 11 |
| 6 * | 5270.00 | 111.49 | | | 109.94 | 1.55 | Peak | 203 | 11 |
| 7 | 5430.00 | 50.62 | 54.00 | -3.38 | 48.79 | 1.83 | Average | 203 | 11 |
| 8 | 5430.00 | 63.25 | 74.00 | -10.75 | 61.42 | 1.83 | Peak | 203 | 11 |
| 9 | 10540.00 | 53.36 | 68.20 | -14.84 | 40.56 | 12.80 | Peak | 133 | 15 |
| 10 | 15810.00 | 42.43 | 54.00 | -11.57 | 28.06 | 14.37 | Average | 129 | 28 |
| 11 | 15810.00 | 55.49 | 74.00 | -18.51 | 41.12 | 14.37 | Peak | 129 | 28 |

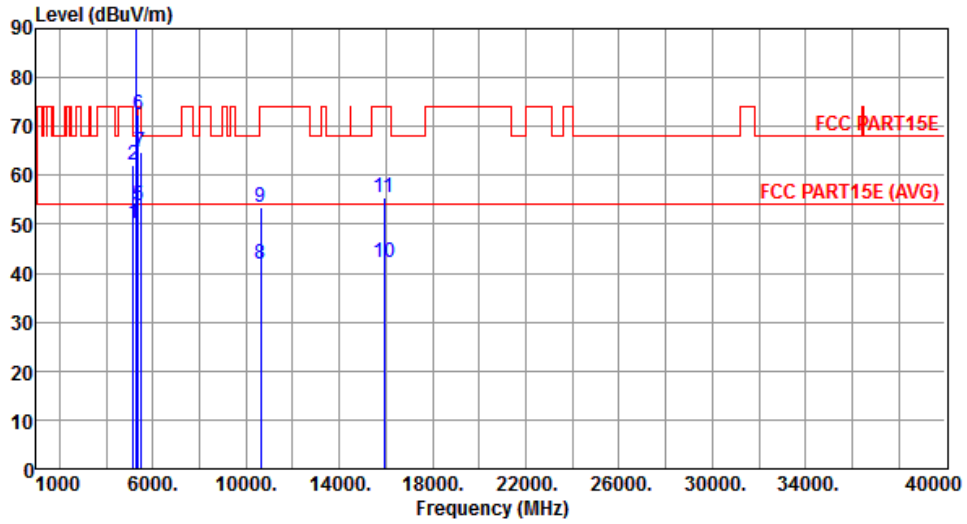
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5310 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00 | 50.16 | 54.00 | -3.84 | 48.81 | 1.35 | Average | 203 | 285 |
| 2 | 5150.00 | 62.09 | 74.00 | -11.91 | 60.74 | 1.35 | Peak | 203 | 285 |
| 3 * | 5310.00 | 104.14 | | | 102.51 | 1.63 | Average | 203 | 285 |
| 4 * | 5310.00 | 115.35 | | | 113.72 | 1.63 | Peak | 203 | 285 |
| 5 | 5350.00 | 53.64 | 54.00 | -0.36 | 51.95 | 1.69 | Average | 201 | 287 |
| 6 | 5350.00 | 72.55 | 74.00 | -1.45 | 70.86 | 1.69 | Peak | 201 | 287 |
| 7 | 5470.00 | 64.74 | 68.20 | -3.46 | 62.86 | 1.88 | Peak | 203 | 285 |
| 8 | 10620.00 | 41.68 | 54.00 | -12.32 | 28.71 | 12.97 | Average | 112 | 91 |
| 9 | 10620.00 | 53.32 | 74.00 | -20.68 | 40.35 | 12.97 | Peak | 112 | 91 |
| 10 | 15930.00 | 42.31 | 54.00 | -11.69 | 28.03 | 14.28 | Average | 113 | 106 |
| 11 | 15930.00 | 55.48 | 74.00 | -18.52 | 41.20 | 14.28 | Peak | 113 | 106 |

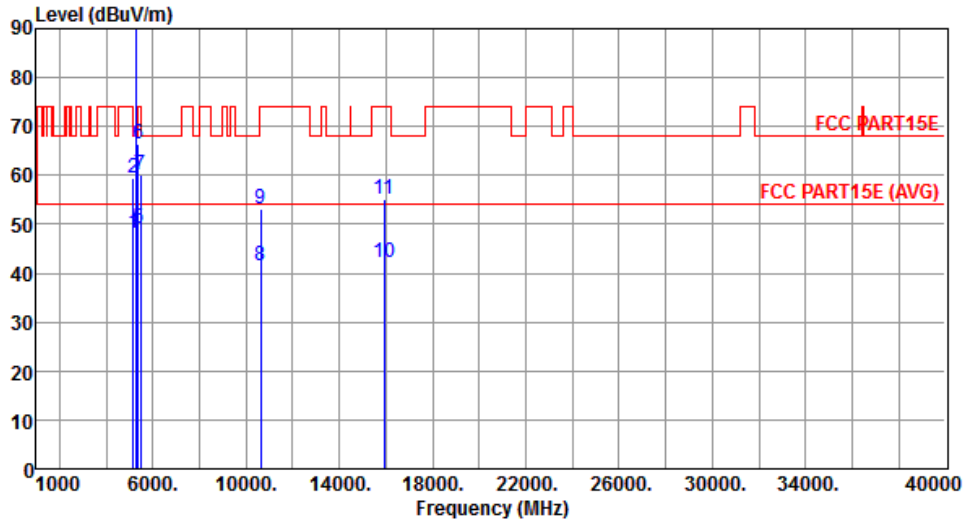
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5310 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00 | 48.06 | 54.00 | -5.94 | 46.71 | 1.35 | Average | 205 | 11 |
| 2 | 5150.00 | 59.35 | 74.00 | -14.65 | 58.00 | 1.35 | Peak | 205 | 11 |
| 3 * | 5310.00 | 98.02 | | | 96.39 | 1.63 | Average | 205 | 11 |
| 4 * | 5310.00 | 109.76 | | | 108.13 | 1.63 | Peak | 205 | 11 |
| 5 | 5350.00 | 49.25 | 54.00 | -4.75 | 47.56 | 1.69 | Average | 205 | 11 |
| 6 | 5350.00 | 66.58 | 74.00 | -7.42 | 64.89 | 1.69 | Peak | 205 | 11 |
| 7 | 5470.00 | 60.14 | 68.20 | -8.06 | 58.26 | 1.88 | Peak | 205 | 11 |
| 8 | 10620.00 | 41.35 | 54.00 | -12.65 | 28.38 | 12.97 | Average | 135 | 19 |
| 9 | 10620.00 | 53.25 | 74.00 | -20.75 | 40.28 | 12.97 | Peak | 135 | 19 |
| 10 | 15930.00 | 42.25 | 54.00 | -11.75 | 27.97 | 14.28 | Average | 133 | 41 |
| 11 | 15930.00 | 55.23 | 74.00 | -18.77 | 40.95 | 14.28 | Peak | 133 | 41 |

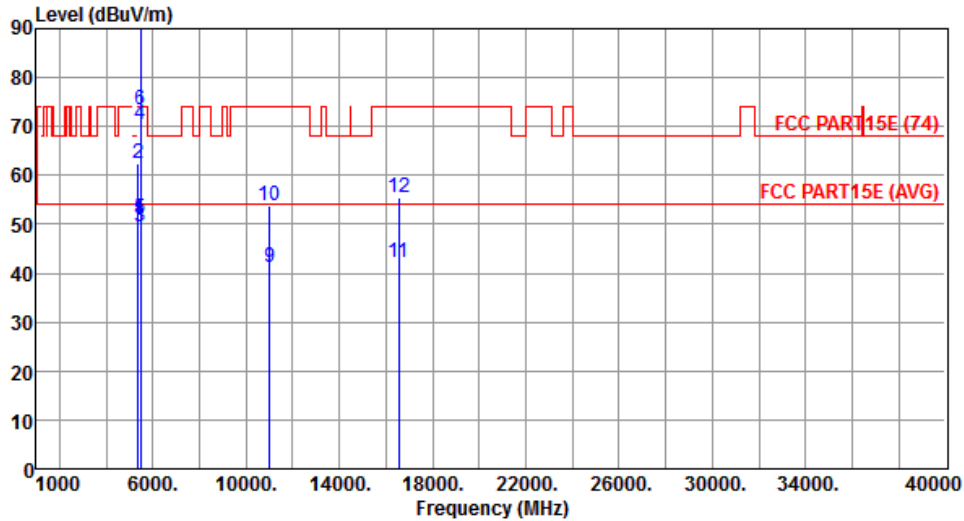
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5510 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5350.00 | 50.76 | 54.00 | -3.24 | 49.07 | 1.69 | Average | 199 | 286 |
| 2 | 5350.00 | 62.39 | 74.00 | -11.61 | 60.70 | 1.69 | Peak | 199 | 286 |
| 3 | 5460.00 | 49.45 | 54.00 | -4.55 | 47.58 | 1.87 | Average | 199 | 286 |
| 4 | 5460.00 | 70.53 | 74.00 | -3.47 | 68.66 | 1.87 | Peak | 199 | 286 |
| 5 | 5470.00 | 51.23 | 54.00 | -2.77 | 49.35 | 1.88 | Average | 199 | 286 |
| 6 | 5470.00 | 73.54 | 74.00 | -0.46 | 71.66 | 1.88 | Peak | 199 | 286 |
| 7 * | 5510.00 | 103.99 | | | 102.05 | 1.94 | Average | 203 | 285 |
| 8 * | 5510.00 | 115.98 | | | 114.04 | 1.94 | Peak | 203 | 285 |
| 9 | 11020.00 | 41.32 | 54.00 | -12.68 | 27.49 | 13.83 | Average | 106 | 98 |
| 10 | 11020.00 | 53.95 | 74.00 | -20.05 | 40.12 | 13.83 | Peak | 106 | 98 |
| 11 | 16530.00 | 42.13 | 54.00 | -11.87 | 26.46 | 15.67 | Average | 115 | 123 |
| 12 | 16530.00 | 55.36 | 74.00 | -18.64 | 39.69 | 15.67 | Peak | 115 | 123 |

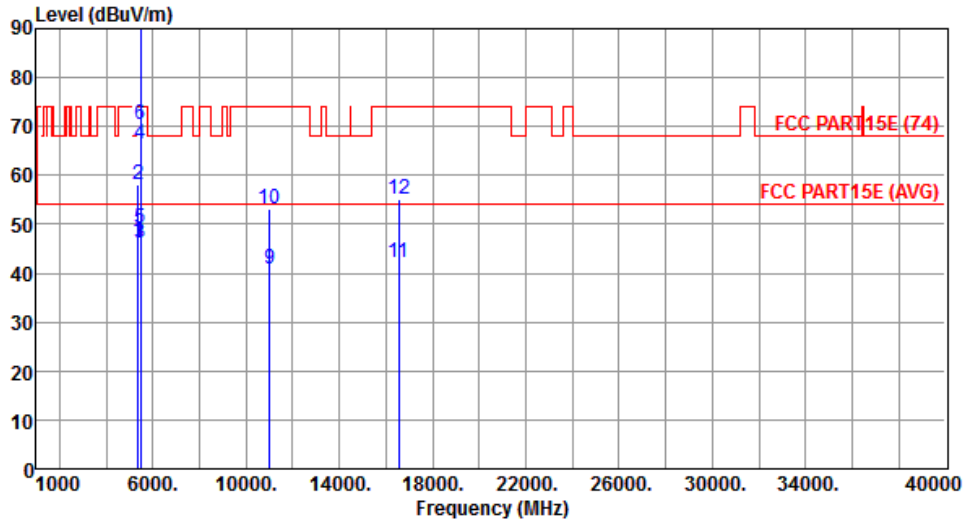
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5510 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5350.00 | 46.59 | 54.00 | -7.41 | 44.90 | 1.69 | Average | 209 | 14 |
| 2 | 5350.00 | 58.21 | 74.00 | -15.79 | 56.52 | 1.69 | Peak | 209 | 14 |
| 3 | 5460.00 | 46.25 | 54.00 | -7.75 | 44.38 | 1.87 | Average | 209 | 14 |
| 4 | 5460.00 | 66.31 | 74.00 | -7.69 | 64.44 | 1.87 | Peak | 209 | 14 |
| 5 | 5470.00 | 49.13 | 54.00 | -4.87 | 47.25 | 1.88 | Average | 209 | 14 |
| 6 | 5470.00 | 70.24 | 74.00 | -3.76 | 68.36 | 1.88 | Peak | 209 | 14 |
| 7 * | 5510.00 | 98.52 | | | 96.58 | 1.94 | Average | 209 | 14 |
| 8 * | 5510.00 | 110.76 | | | 108.82 | 1.94 | Peak | 209 | 14 |
| 9 | 11020.00 | 40.96 | 54.00 | -13.04 | 27.13 | 13.83 | Average | 125 | 26 |
| 10 | 11020.00 | 53.12 | 74.00 | -20.88 | 39.29 | 13.83 | Peak | 125 | 26 |
| 11 | 16530.00 | 42.08 | 54.00 | -11.92 | 26.41 | 15.67 | Average | 129 | 28 |
| 12 | 16530.00 | 55.13 | 74.00 | -18.87 | 39.46 | 15.67 | Peak | 129 | 28 |

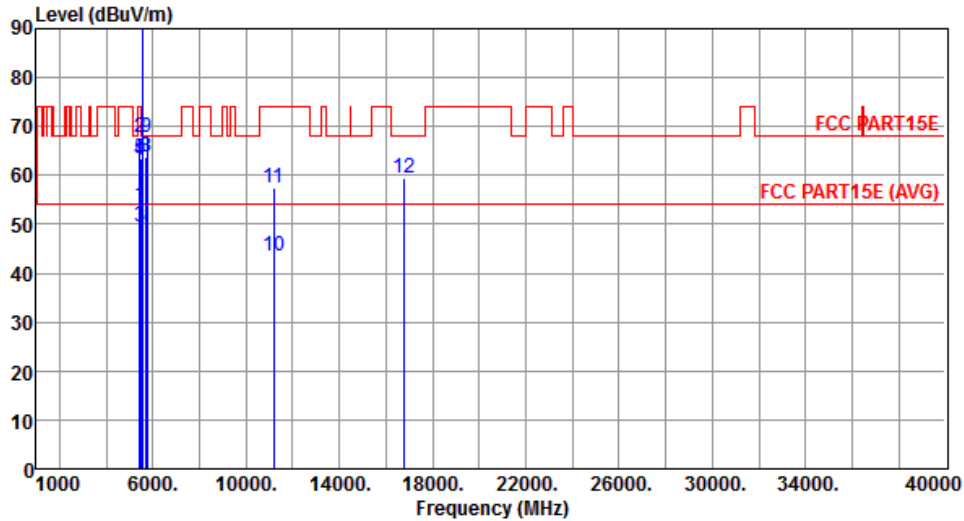
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5590 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5430.00 | 53.82 | 54.00 | -0.18 | 51.99 | 1.83 | Average | 189 | 57 |
| 2 | 5430.00 | 67.61 | 74.00 | -6.39 | 65.78 | 1.83 | Peak | 189 | 57 |
| 3 | 5460.00 | 49.50 | 54.00 | -4.50 | 47.63 | 1.87 | Average | 189 | 57 |
| 4 | 5460.00 | 63.23 | 74.00 | -10.77 | 61.36 | 1.87 | Peak | 189 | 57 |
| 5 | 5470.00 | 63.56 | 68.20 | -4.64 | 61.68 | 1.88 | Peak | 189 | 57 |
| 6 * | 5590.00 | 104.70 | | | 102.61 | 2.09 | Average | 189 | 57 |
| 7 * | 5590.00 | 116.81 | | | 114.72 | 2.09 | Peak | 189 | 57 |
| 8 | 5725.00 | 63.78 | 68.20 | -4.42 | 61.35 | 2.43 | Peak | 189 | 57 |
| 9 | 5750.00 | 67.63 | 68.20 | -0.57 | 65.15 | 2.48 | Peak | 189 | 57 |
| 10 | 11180.00 | 43.45 | 54.00 | -10.55 | 29.44 | 14.01 | Average | 100 | 122 |
| 11 | 11180.00 | 57.54 | 74.00 | -16.46 | 43.53 | 14.01 | Peak | 100 | 122 |
| 12 | 16770.00 | 59.52 | 68.20 | -8.68 | 43.76 | 15.76 | Peak | 100 | 131 |

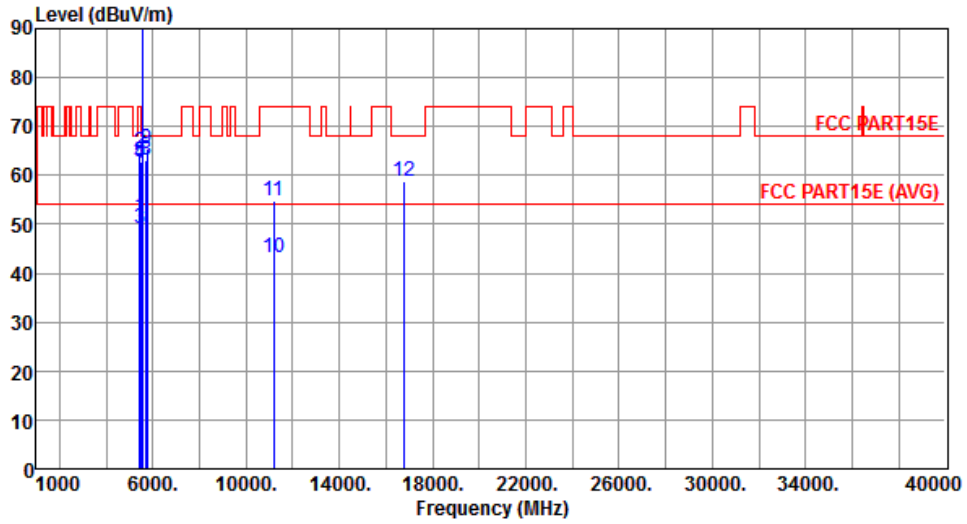
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5590 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5430.00 | 51.43 | 54.00 | -2.57 | 49.60 | 1.83 | Average | 242 | 348 |
| 2 | 5430.00 | 64.84 | 74.00 | -9.16 | 63.01 | 1.83 | Peak | 242 | 348 |
| 3 | 5460.00 | 49.20 | 54.00 | -4.80 | 47.33 | 1.87 | Average | 242 | 348 |
| 4 | 5460.00 | 62.43 | 74.00 | -11.57 | 60.56 | 1.87 | Peak | 242 | 348 |
| 5 | 5470.00 | 62.88 | 68.20 | -5.32 | 61.00 | 1.88 | Peak | 242 | 348 |
| 6 * | 5590.00 | 99.90 | | | 97.81 | 2.09 | Average | 242 | 348 |
| 7 * | 5590.00 | 111.89 | | | 109.80 | 2.09 | Peak | 242 | 348 |
| 8 | 5725.00 | 63.21 | 68.20 | -4.99 | 60.78 | 2.43 | Peak | 242 | 348 |
| 9 | 5750.00 | 65.27 | 68.20 | -2.93 | 62.79 | 2.48 | Peak | 242 | 348 |
| 10 | 11180.00 | 43.09 | 54.00 | -10.91 | 29.08 | 14.01 | Average | 100 | 77 |
| 11 | 11180.00 | 54.96 | 74.00 | -19.04 | 40.95 | 14.01 | Peak | 100 | 77 |
| 12 | 16770.00 | 58.86 | 68.20 | -9.34 | 43.10 | 15.76 | Peak | 100 | 54 |

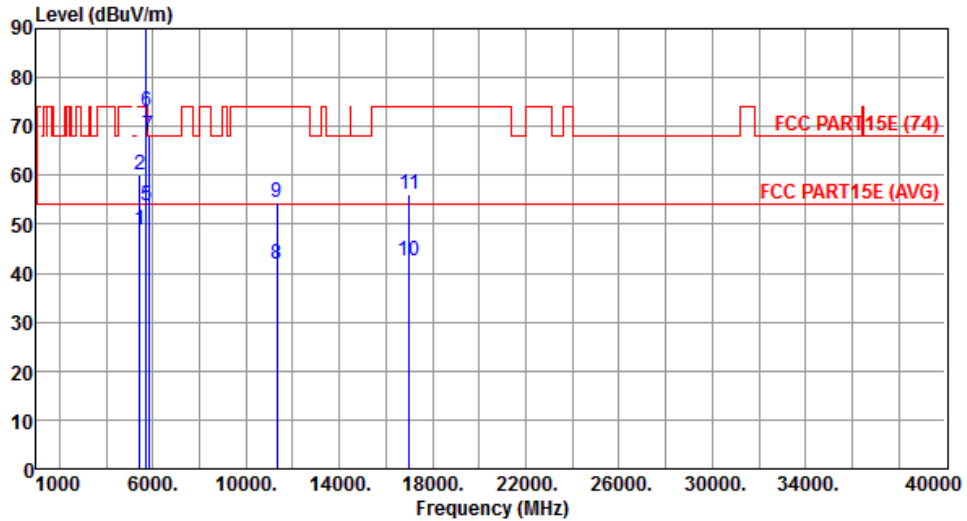
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5670 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5430.00 | 48.65 | 54.00 | -5.35 | 46.82 | 1.83 | Average | 198 | 306 |
| 2 | 5430.00 | 60.01 | 74.00 | -13.99 | 58.18 | 1.83 | Peak | 198 | 306 |
| 3 * | 5670.00 | 106.36 | | | 104.08 | 2.28 | Average | 198 | 306 |
| 4 * | 5670.00 | 118.15 | | | 115.87 | 2.28 | Peak | 198 | 306 |
| 5 | 5725.00 | 53.85 | 54.00 | -0.15 | 51.42 | 2.43 | Average | 198 | 306 |
| 6 | 5725.00 | 72.95 | 74.00 | -1.05 | 70.52 | 2.43 | Peak | 198 | 306 |
| 7 | 5830.00 | 68.00 | 68.20 | -0.20 | 65.32 | 2.68 | Peak | 198 | 306 |
| 8 | 11340.00 | 41.82 | 54.00 | -12.18 | 27.64 | 14.18 | Average | 106 | 113 |
| 9 | 11340.00 | 54.39 | 74.00 | -19.61 | 40.21 | 14.18 | Peak | 106 | 113 |
| 10 | 17010.00 | 42.56 | 54.00 | -11.44 | 26.67 | 15.89 | Average | 121 | 126 |
| 11 | 17010.00 | 56.24 | 74.00 | -17.76 | 40.35 | 15.89 | Peak | 121 | 126 |

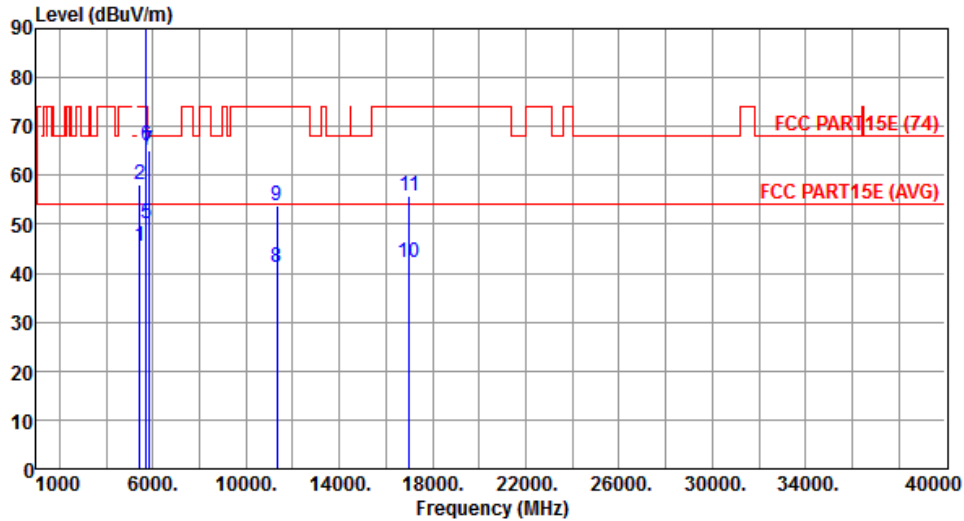
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5670 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5430.00 | 45.46 | 54.00 | -8.54 | 43.63 | 1.83 | Average | 209 | 19 |
| 2 | 5430.00 | 58.11 | 74.00 | -15.89 | 56.28 | 1.83 | Peak | 209 | 19 |
| 3 * | 5670.00 | 101.06 | | | 98.78 | 2.28 | Average | 209 | 19 |
| 4 * | 5670.00 | 113.15 | | | 110.87 | 2.28 | Peak | 209 | 19 |
| 5 | 5725.00 | 50.14 | 54.00 | -3.86 | 47.71 | 2.43 | Average | 209 | 19 |
| 6 | 5725.00 | 66.18 | 74.00 | -7.82 | 63.75 | 2.43 | Peak | 209 | 19 |
| 7 | 5830.00 | 65.11 | 68.20 | -3.09 | 62.43 | 2.68 | Peak | 208 | 15 |
| 8 | 11340.00 | 41.33 | 54.00 | -12.67 | 27.15 | 14.18 | Average | 131 | 15 |
| 9 | 11340.00 | 53.84 | 74.00 | -20.16 | 39.66 | 14.18 | Peak | 131 | 15 |
| 10 | 17010.00 | 42.31 | 54.00 | -11.69 | 26.42 | 15.89 | Average | 133 | 21 |
| 11 | 17010.00 | 55.89 | 74.00 | -18.11 | 40.00 | 15.89 | Peak | 133 | 21 |

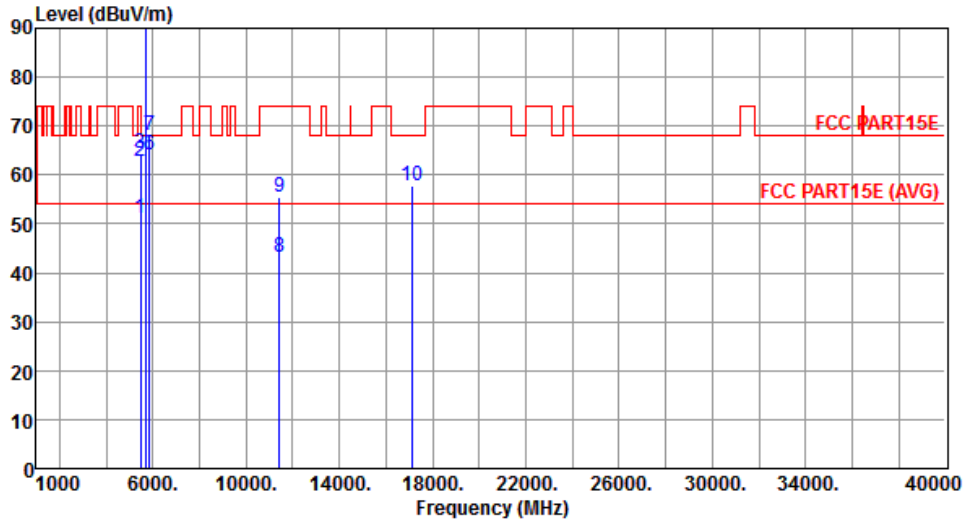
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5710 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 51.09 | 54.00 | -2.91 | 49.22 | 1.87 | Average | 196 | 47 |
| 2 | 5460.00 | 62.73 | 74.00 | -11.27 | 60.86 | 1.87 | Peak | 196 | 47 |
| 3 | 5470.00 | 64.40 | 68.20 | -3.80 | 62.52 | 1.88 | Peak | 196 | 47 |
| 4 * | 5710.00 | 104.98 | | | 102.60 | 2.38 | Average | 196 | 47 |
| 5 * | 5710.00 | 117.42 | | | 115.04 | 2.38 | Peak | 196 | 47 |
| 6 | 5850.00 | 64.26 | 68.20 | -3.94 | 61.55 | 2.71 | Peak | 196 | 47 |
| 7 | 5870.00 | 68.04 | 68.20 | -0.16 | 65.29 | 2.75 | Peak | 196 | 47 |
| 8 | 11420.00 | 43.32 | 54.00 | -10.68 | 29.05 | 14.27 | Average | 100 | 141 |
| 9 | 11420.00 | 55.51 | 74.00 | -18.49 | 41.24 | 14.27 | Peak | 100 | 141 |
| 10 | 17130.00 | 57.65 | 68.20 | -10.55 | 41.36 | 16.29 | Peak | 100 | 110 |

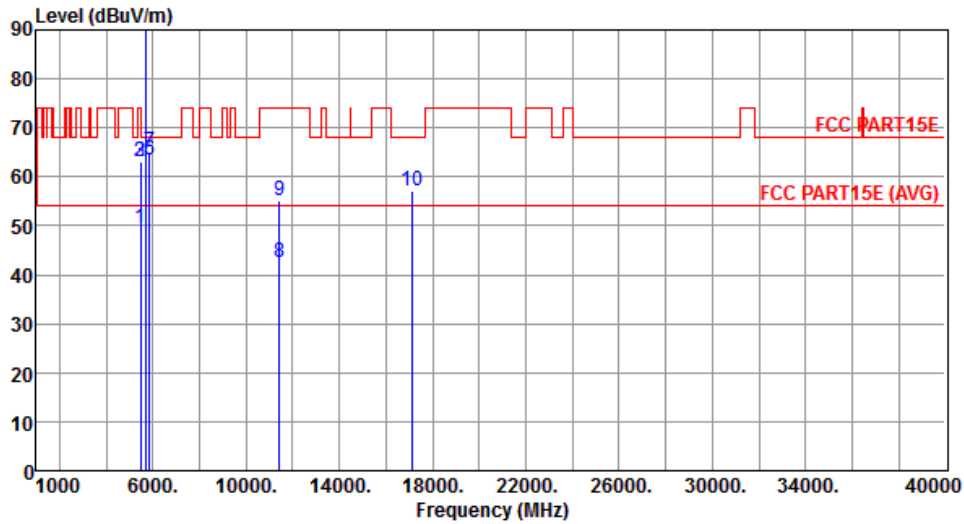
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5710 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 49.37 | 54.00 | -4.63 | 47.50 | 1.87 | Average | 217 | 344 |
| 2 | 5460.00 | 63.21 | 74.00 | -10.79 | 61.34 | 1.87 | Peak | 217 | 344 |
| 3 | 5470.00 | 63.07 | 68.20 | -5.13 | 61.19 | 1.88 | Peak | 217 | 344 |
| 4 * | 5710.00 | 98.12 | | | 95.74 | 2.38 | Average | 217 | 344 |
| 5 * | 5710.00 | 111.80 | | | 109.42 | 2.38 | Peak | 217 | 344 |
| 6 | 5850.00 | 63.29 | 68.20 | -4.91 | 60.58 | 2.71 | Peak | 217 | 344 |
| 7 | 5870.00 | 65.00 | 68.20 | -3.20 | 62.25 | 2.75 | Peak | 217 | 344 |
| 8 | 11420.00 | 42.46 | 54.00 | -11.54 | 28.19 | 14.27 | Average | 100 | 58 |
| 9 | 11420.00 | 55.01 | 74.00 | -18.99 | 40.74 | 14.27 | Peak | 100 | 58 |
| 10 | 17130.00 | 57.08 | 68.20 | -11.12 | 40.79 | 16.29 | Peak | 100 | 78 |

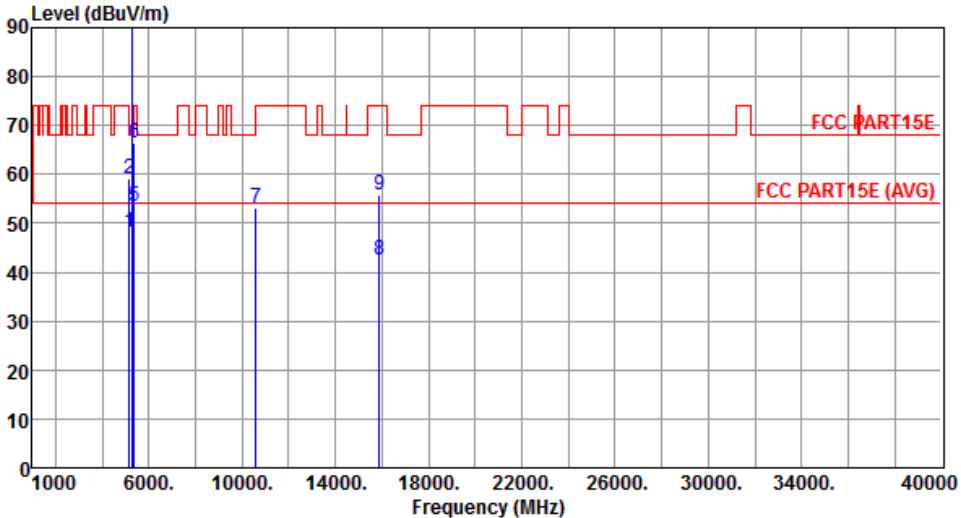
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

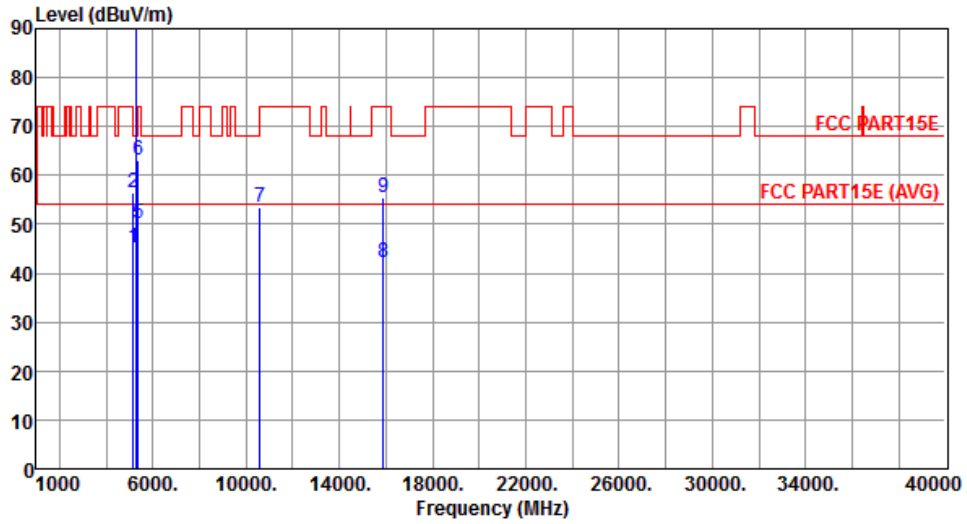
Note 3: "*" is Peak / Average value of fundamental frequency

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

| Modulation | VHT80 | Test Freq. (MHz) | 5290 | | | | | | |
|---|------------|-------------------|--------|--------|---------------|--------|---------|-------------|---------------|
| Polarization | Horizontal | | | | | | | | |
|  | | | | | | | | | |
| | Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | | cm | deg |
| 1 | 5150.00 | 48.03 | 54.00 | -5.97 | 46.68 | 1.35 | Average | 199 | 303 |
| 2 | 5150.00 | 59.09 | 74.00 | -14.91 | 57.74 | 1.35 | Peak | 199 | 303 |
| 3 * | 5290.00 | 99.17 | | | 97.59 | 1.58 | Average | 199 | 303 |
| 4 * | 5290.00 | 108.25 | | | 106.67 | 1.58 | Peak | 199 | 303 |
| 5 | 5350.00 | 53.50 | 54.00 | -0.50 | 51.81 | 1.69 | Average | 199 | 303 |
| 6 | 5350.00 | 66.34 | 74.00 | -7.66 | 64.65 | 1.69 | Peak | 199 | 303 |
| 7 | 10580.00 | 53.14 | 68.20 | -15.06 | 40.25 | 12.89 | Peak | 115 | 93 |
| 8 | 15870.00 | 42.45 | 54.00 | -11.55 | 28.12 | 14.33 | Average | 115 | 129 |
| 9 | 15870.00 | 55.69 | 74.00 | -18.31 | 41.36 | 14.33 | Peak | 115 | 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).
 Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5290 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00 | 45.21 | 54.00 | -8.79 | 43.86 | 1.35 | Average | 206 | 14 |
| 2 | 5150.00 | 56.36 | 74.00 | -17.64 | 55.01 | 1.35 | Peak | 206 | 14 |
| 3 * | 5290.00 | 94.25 | | | 92.67 | 1.58 | Average | 206 | 14 |
| 4 * | 5290.00 | 103.38 | | | 101.80 | 1.58 | Peak | 206 | 14 |
| 5 | 5350.00 | 50.25 | 54.00 | -3.75 | 48.56 | 1.69 | Average | 206 | 14 |
| 6 | 5350.00 | 63.18 | 74.00 | -10.82 | 61.49 | 1.69 | Peak | 206 | 14 |
| 7 | 10580.00 | 53.45 | 68.20 | -14.75 | 40.56 | 12.89 | Peak | 146 | 24 |
| 8 | 15870.00 | 42.33 | 54.00 | -11.67 | 28.00 | 14.33 | Average | 146 | 15 |
| 9 | 15870.00 | 55.46 | 74.00 | -18.54 | 41.13 | 14.33 | Peak | 146 | 15 |

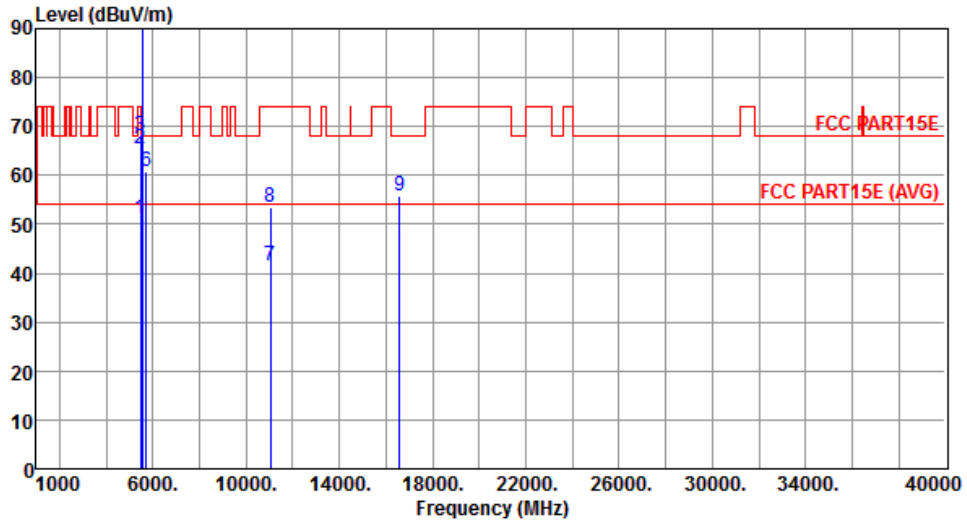
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5530 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 51.12 | 54.00 | -2.88 | 49.25 | 1.87 | Average | 195 | 304 |
| 2 | 5460.00 | 65.43 | 74.00 | -8.57 | 63.56 | 1.87 | Peak | 195 | 304 |
| 3 | 5470.00 | 67.98 | 68.20 | -0.22 | 66.10 | 1.88 | Peak | 195 | 304 |
| 4 * | 5530.00 | 99.90 | | | 97.92 | 1.98 | Average | 199 | 303 |
| 5 * | 5530.00 | 108.56 | | | 106.58 | 1.98 | Peak | 199 | 303 |
| 6 | 5725.00 | 60.90 | 68.20 | -7.30 | 58.47 | 2.43 | Peak | 199 | 303 |
| 7 | 11060.00 | 41.35 | 54.00 | -12.65 | 27.47 | 13.88 | Average | 121 | 93 |
| 8 | 11060.00 | 53.42 | 74.00 | -20.58 | 39.54 | 13.88 | Peak | 121 | 93 |
| 9 | 16590.00 | 55.84 | 68.20 | -12.36 | 40.15 | 15.69 | Peak | 113 | 104 |

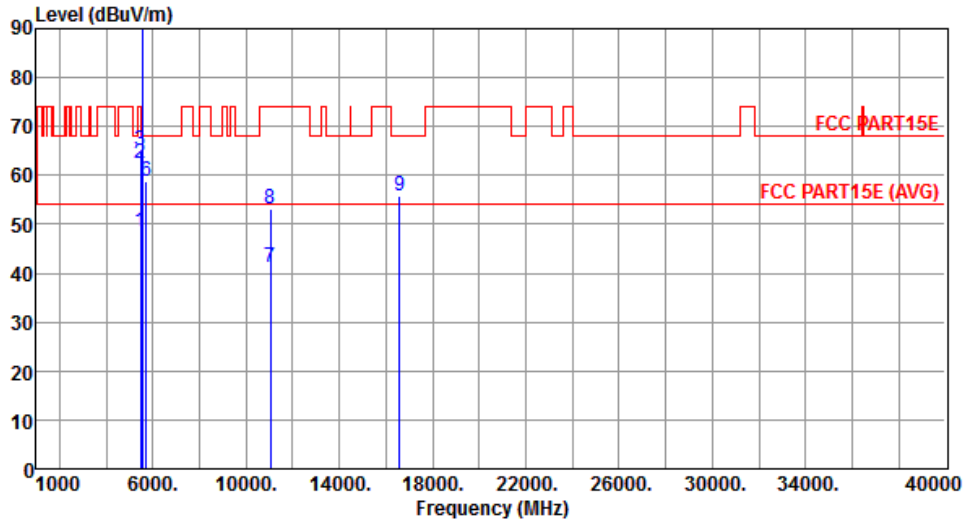
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5530 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 48.36 | 54.00 | -5.64 | 46.49 | 1.87 | Average | 205 | 15 |
| 2 | 5460.00 | 62.59 | 74.00 | -11.41 | 60.72 | 1.87 | Peak | 205 | 15 |
| 3 | 5470.00 | 65.11 | 68.20 | -3.09 | 63.23 | 1.88 | Peak | 205 | 15 |
| 4 * | 5530.00 | 94.83 | | | 92.85 | 1.98 | Average | 205 | 15 |
| 5 * | 5530.00 | 103.65 | | | 101.67 | 1.98 | Peak | 205 | 15 |
| 6 | 5725.00 | 58.94 | 68.20 | -9.26 | 56.51 | 2.43 | Peak | 205 | 15 |
| 7 | 11060.00 | 41.22 | 54.00 | -12.78 | 27.34 | 13.88 | Average | 139 | 55 |
| 8 | 11060.00 | 53.29 | 74.00 | -20.71 | 39.41 | 13.88 | Peak | 139 | 55 |
| 9 | 16590.00 | 55.69 | 68.20 | -12.51 | 40.00 | 15.69 | Peak | 141 | 12 |

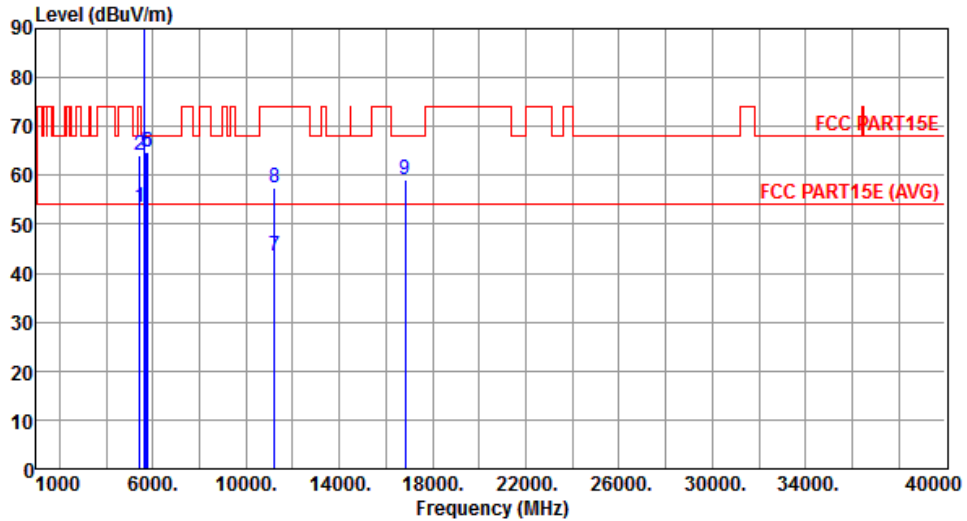
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5610 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5450.00 | 53.55 | 54.00 | -0.45 | 51.70 | 1.85 | Average | 194 | 53 |
| 2 | 5450.00 | 64.09 | 74.00 | -9.91 | 62.24 | 1.85 | Peak | 194 | 53 |
| 3 * | 5610.00 | 103.38 | | | 101.25 | 2.13 | Average | 194 | 53 |
| 4 * | 5610.00 | 113.82 | | | 111.69 | 2.13 | Peak | 194 | 53 |
| 5 | 5725.00 | 64.69 | 68.20 | -3.51 | 62.26 | 2.43 | Peak | 194 | 53 |
| 6 | 5770.00 | 64.93 | 68.20 | -3.27 | 62.40 | 2.53 | Peak | 194 | 53 |
| 7 | 11220.00 | 43.42 | 54.00 | -10.58 | 29.37 | 14.05 | Average | 100 | 122 |
| 8 | 11220.00 | 57.38 | 74.00 | -16.62 | 43.33 | 14.05 | Peak | 100 | 122 |
| 9 | 16830.00 | 58.98 | 68.20 | -9.22 | 43.19 | 15.79 | Peak | 100 | 136 |

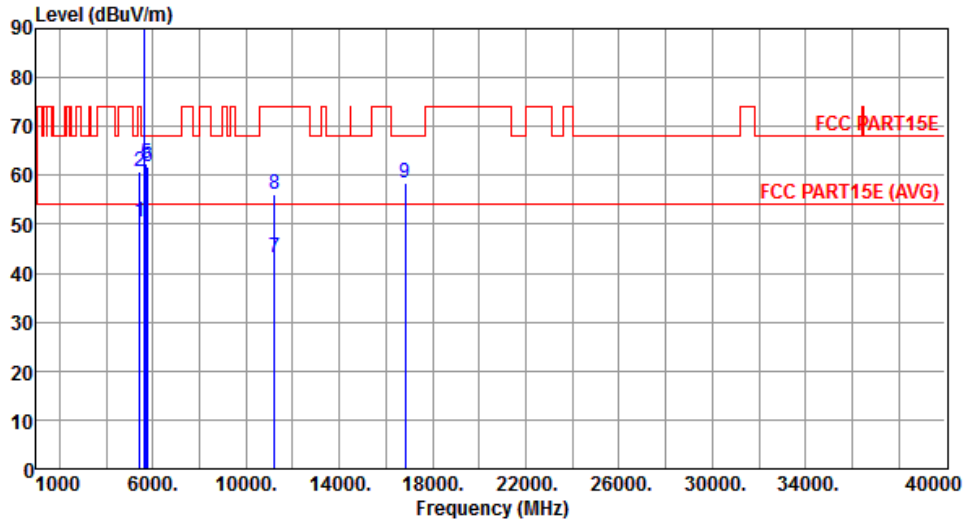
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5610 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5450.00 | 50.32 | 54.00 | -3.68 | 48.47 | 1.85 | Average | 242 | 348 |
| 2 | 5450.00 | 60.79 | 74.00 | -13.21 | 58.94 | 1.85 | Peak | 242 | 348 |
| 3 * | 5610.00 | 97.27 | | | 95.14 | 2.13 | Average | 242 | 348 |
| 4 * | 5610.00 | 108.13 | | | 106.00 | 2.13 | Peak | 242 | 348 |
| 5 | 5725.00 | 62.39 | 68.20 | -5.81 | 59.96 | 2.43 | Peak | 242 | 348 |
| 6 | 5770.00 | 61.63 | 68.20 | -6.57 | 59.10 | 2.53 | Peak | 242 | 348 |
| 7 | 11220.00 | 43.02 | 54.00 | -10.98 | 28.97 | 14.05 | Average | 100 | 84 |
| 8 | 11220.00 | 56.15 | 74.00 | -17.85 | 42.10 | 14.05 | Peak | 100 | 84 |
| 9 | 16830.00 | 58.60 | 68.20 | -9.60 | 42.81 | 15.79 | Peak | 100 | 62 |

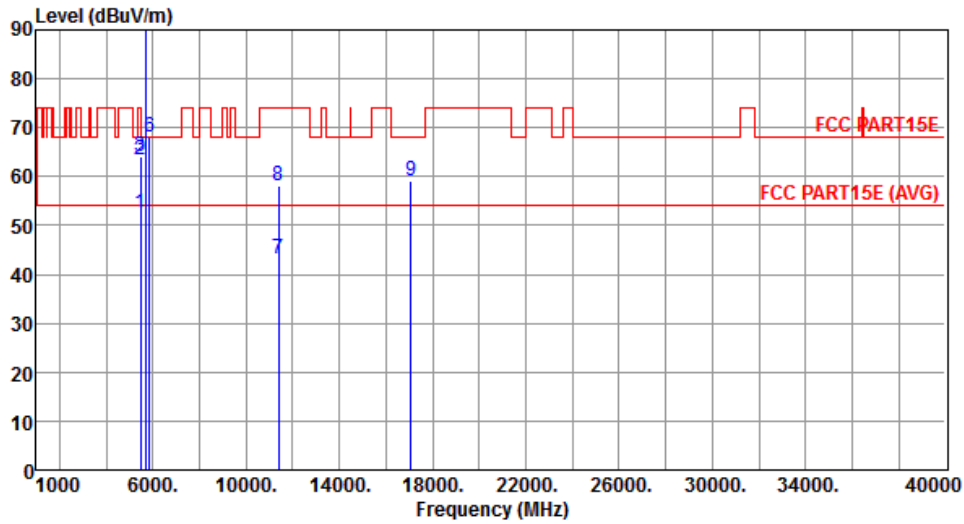
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5690 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 52.45 | 54.00 | -1.55 | 50.58 | 1.87 | Average | 195 | 52 |
| 2 | 5460.00 | 63.45 | 74.00 | -10.55 | 61.58 | 1.87 | Peak | 195 | 52 |
| 3 | 5470.00 | 63.95 | 68.20 | -4.25 | 62.07 | 1.88 | Peak | 195 | 52 |
| 4 * | 5690.00 | 106.53 | | | 104.19 | 2.34 | Average | 195 | 52 |
| 5 * | 5690.00 | 116.72 | | | 114.38 | 2.34 | Peak | 195 | 52 |
| 6 | 5850.00 | 68.05 | 68.20 | -0.15 | 65.34 | 2.71 | Peak | 195 | 52 |
| 7 | 11380.00 | 43.26 | 54.00 | -10.74 | 29.03 | 14.23 | Average | 100 | 113 |
| 8 | 11380.00 | 58.18 | 74.00 | -15.82 | 43.95 | 14.23 | Peak | 100 | 113 |
| 9 | 17070.00 | 59.19 | 68.20 | -9.01 | 43.10 | 16.09 | Peak | 100 | 148 |

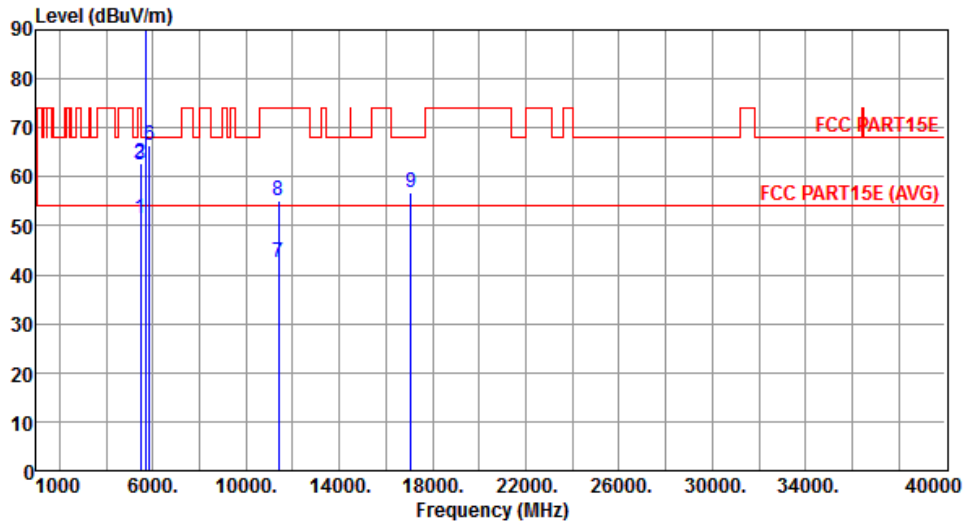
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5690 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 51.36 | 54.00 | -2.64 | 49.49 | 1.87 | Average | 209 | 345 |
| 2 | 5460.00 | 62.80 | 74.00 | -11.20 | 60.93 | 1.87 | Peak | 209 | 345 |
| 3 | 5470.00 | 62.60 | 68.20 | -5.60 | 60.72 | 1.88 | Peak | 209 | 345 |
| 4 * | 5690.00 | 99.75 | | | 97.41 | 2.34 | Average | 209 | 345 |
| 5 * | 5690.00 | 110.09 | | | 107.75 | 2.34 | Peak | 209 | 345 |
| 6 | 5850.00 | 66.27 | 68.20 | -1.93 | 63.56 | 2.71 | Peak | 209 | 345 |
| 7 | 11380.00 | 42.35 | 54.00 | -11.65 | 28.12 | 14.23 | Average | 100 | 61 |
| 8 | 11380.00 | 55.05 | 74.00 | -18.95 | 40.82 | 14.23 | Peak | 100 | 61 |
| 9 | 17070.00 | 56.84 | 68.20 | -11.36 | 40.75 | 16.09 | Peak | 100 | 82 |

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

*Factor includes antenna factor , cable loss and amplifier gain

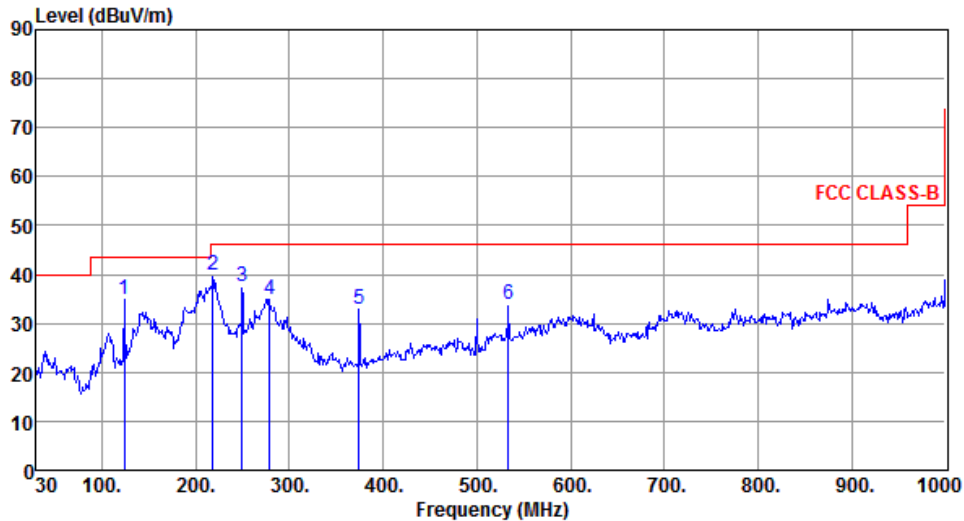
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Beamforming mode

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

| | | | |
|--------------|------------|--------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5670 |
| Polarization | Horizontal | Test Configuration | 1 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 124.21 | 34.97 | 43.50 | -8.53 | 45.57 | -10.60 | Peak | --- | --- |
| 2 | 218.22 | 39.78 | 46.00 | -6.22 | 50.83 | -11.05 | Peak | --- | --- |
| 3 | 249.32 | 37.41 | 46.00 | -8.59 | 46.83 | -9.42 | Peak | --- | --- |
| 4 | 279.22 | 34.93 | 46.00 | -11.07 | 43.27 | -8.34 | Peak | --- | --- |
| 5 | 374.51 | 32.89 | 46.00 | -13.11 | 38.86 | -5.97 | Peak | --- | --- |
| 6 | 533.59 | 33.96 | 46.00 | -12.04 | 36.52 | -2.56 | Peak | --- | --- |

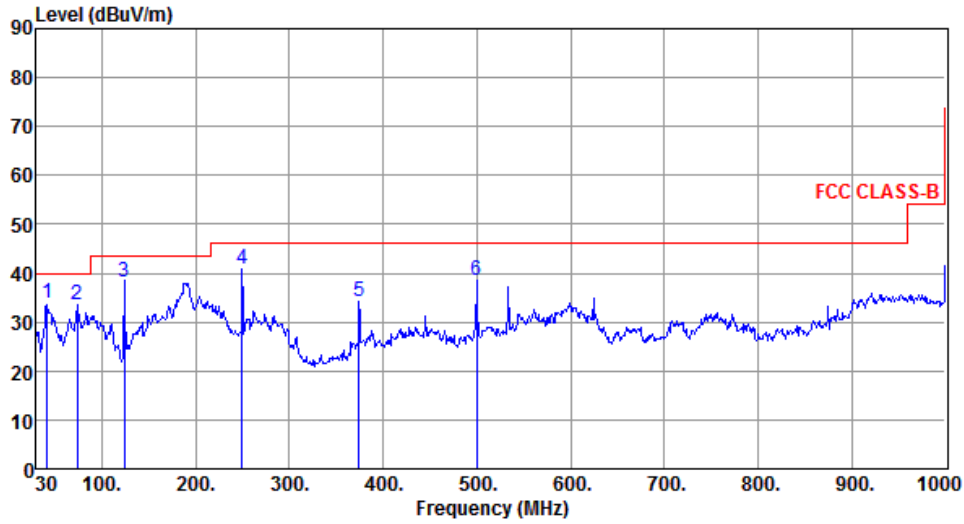
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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 | VHT40 | Test Freq. (MHz) | 5670 |
| Polarization | Vertical | Test Configuration | 1 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 41.73 | 33.76 | 40.00 | -6.24 | 42.35 | -8.59 | Peak | --- | --- |
| 2 | 73.59 | 33.64 | 40.00 | -6.36 | 45.28 | -11.64 | Peak | --- | --- |
| 3 | 124.16 | 38.33 | 43.50 | -5.17 | 48.94 | -10.61 | Peak | --- | --- |
| 4 | 249.22 | 40.92 | 46.00 | -5.08 | 50.35 | -9.43 | Peak | --- | --- |
| 5 | 374.52 | 34.30 | 46.00 | -11.70 | 40.27 | -5.97 | Peak | --- | --- |
| 6 | 499.59 | 38.58 | 46.00 | -7.42 | 41.82 | -3.24 | Peak | --- | --- |

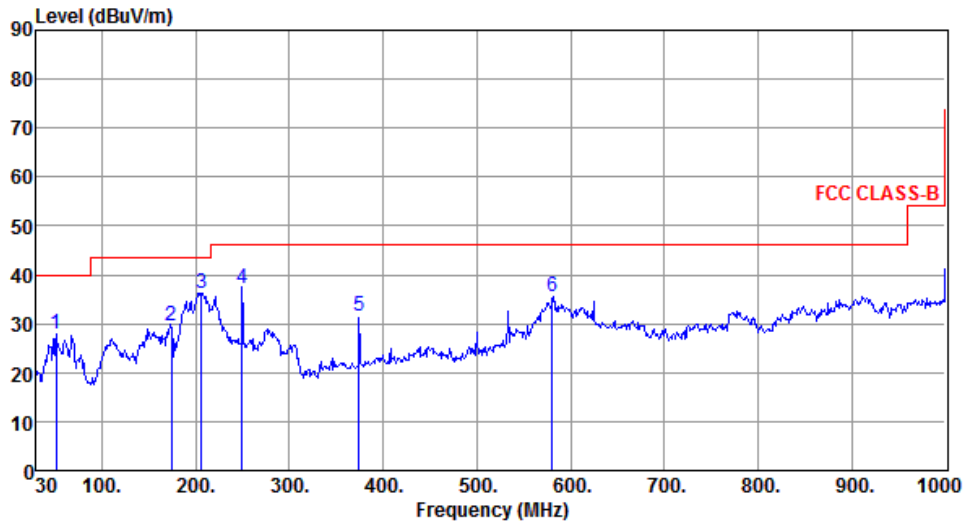
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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 | VHT40 | Test Freq. (MHz) | 5670 |
| Polarization | Horizontal | Test Configuration | 2 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 51.35 | 27.94 | 40.00 | -12.06 | 36.18 | -8.24 | Peak | --- | --- |
| 2 | 174.11 | 29.58 | 43.50 | -13.92 | 38.76 | -9.18 | Peak | --- | --- |
| 3 | 206.54 | 36.11 | 43.50 | -7.39 | 47.24 | -11.13 | Peak | --- | --- |
| 4 | 249.38 | 37.34 | 46.00 | -8.66 | 46.76 | -9.42 | Peak | --- | --- |
| 5 | 374.56 | 31.39 | 46.00 | -14.61 | 37.36 | -5.97 | Peak | --- | --- |
| 6 | 580.67 | 35.47 | 46.00 | -10.53 | 36.90 | -1.43 | Peak | --- | --- |

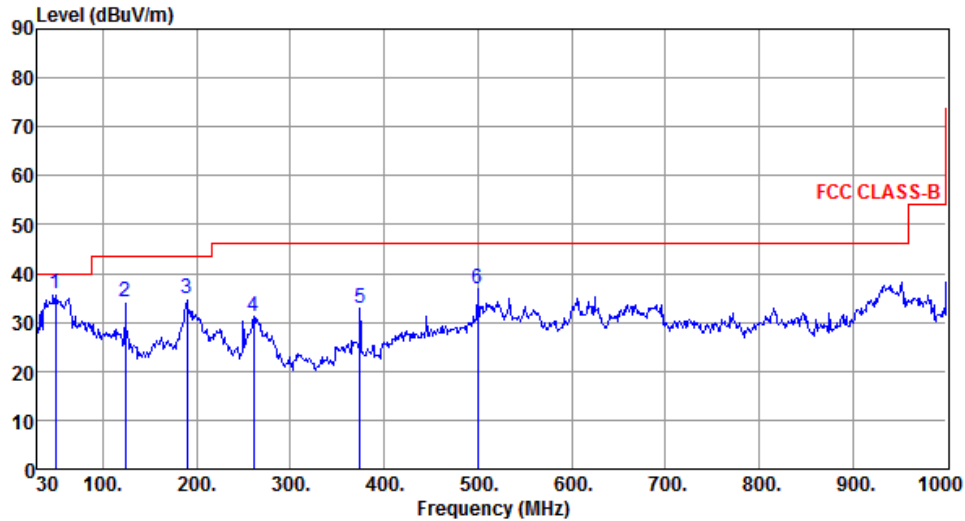
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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 | VHT40 | Test Freq. (MHz) | 5670 |
| Polarization | Vertical | Test Configuration | 2 |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 49.56 | 35.71 | 40.00 | -4.29 | 43.87 | -8.16 | Peak | --- | --- |
| 2 | 124.11 | 34.25 | 43.50 | -9.25 | 44.86 | -10.61 | Peak | --- | --- |
| 3 | 190.11 | 34.84 | 43.50 | -8.66 | 45.67 | -10.83 | Peak | --- | --- |
| 4 | 260.86 | 31.26 | 46.00 | -14.74 | 40.40 | -9.14 | Peak | --- | --- |
| 5 | 374.56 | 32.92 | 46.00 | -13.08 | 38.89 | -5.97 | Peak | --- | --- |
| 6 | 499.65 | 36.94 | 46.00 | -9.06 | 40.18 | -3.24 | Peak | --- | --- |

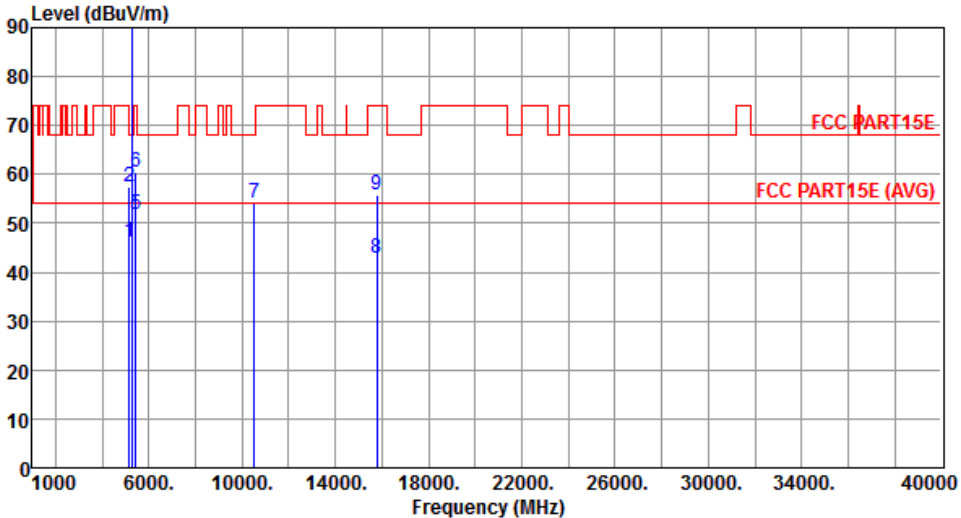
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

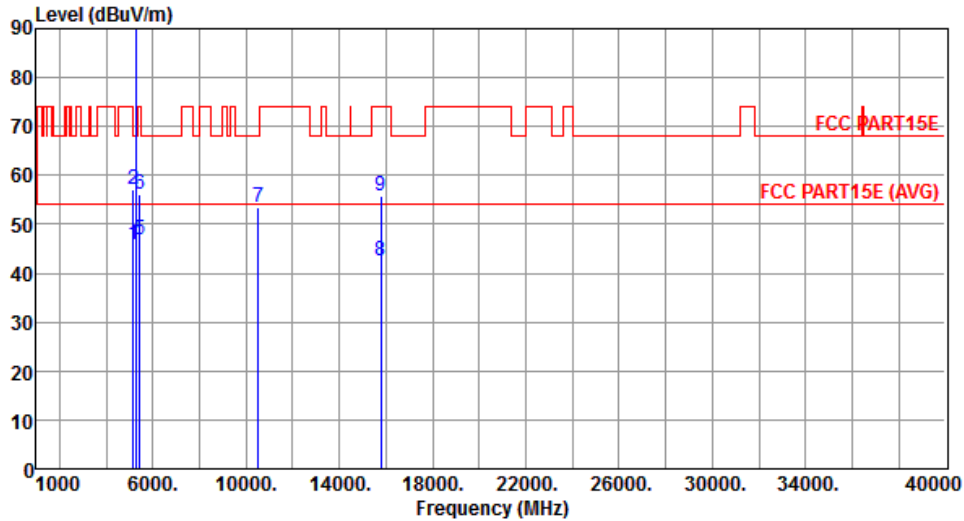
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

| Modulation | VHT20 | Test Freq. (MHz) | 5260 | | | | | | |
|---|------------|-------------------|--------|--------|---------------|--------|---------|-------------|---------------|
| Polarization | Horizontal | | | | | | | | |
|  | | | | | | | | | |
| | Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | | cm | deg |
| 1 | 5150.00 | 46.14 | 54.00 | -7.86 | 44.79 | 1.35 | Average | 193 | 299 |
| 2 | 5150.00 | 57.42 | 74.00 | -16.58 | 56.07 | 1.35 | Peak | 193 | 299 |
| 3 * | 5260.00 | 107.32 | | | 105.78 | 1.54 | Average | 193 | 299 |
| 4 * | 5260.00 | 117.84 | | | 116.30 | 1.54 | Peak | 193 | 299 |
| 5 | 5420.00 | 51.86 | 54.00 | -2.14 | 50.04 | 1.82 | Average | 193 | 299 |
| 6 | 5420.00 | 60.36 | 74.00 | -13.64 | 58.54 | 1.82 | Peak | 193 | 299 |
| 7 | 10520.00 | 54.14 | 68.20 | -14.06 | 41.39 | 12.75 | Peak | 118 | 102 |
| 8 | 15780.00 | 42.85 | 54.00 | -11.15 | 28.46 | 14.39 | Average | 105 | 103 |
| 9 | 15780.00 | 55.93 | 74.00 | -18.07 | 41.54 | 14.39 | Peak | 105 | 103 |

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: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5260 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00 | 45.96 | 54.00 | -8.04 | 44.61 | 1.35 | Average | 202 | 11 |
| 2 | 5150.00 | 57.19 | 74.00 | -16.81 | 55.84 | 1.35 | Peak | 202 | 11 |
| 3 * | 5260.00 | 100.95 | | | 99.41 | 1.54 | Average | 202 | 11 |
| 4 * | 5260.00 | 112.35 | | | 110.81 | 1.54 | Peak | 202 | 11 |
| 5 | 5420.00 | 46.94 | 54.00 | -7.06 | 45.12 | 1.82 | Average | 202 | 11 |
| 6 | 5420.00 | 56.06 | 74.00 | -17.94 | 54.24 | 1.82 | Peak | 202 | 11 |
| 7 | 10520.00 | 53.58 | 68.20 | -14.62 | 40.83 | 12.75 | Peak | 121 | 19 |
| 8 | 15780.00 | 42.65 | 54.00 | -11.35 | 28.26 | 14.39 | Average | 133 | 21 |
| 9 | 15780.00 | 55.81 | 74.00 | -18.19 | 41.42 | 14.39 | Peak | 133 | 21 |

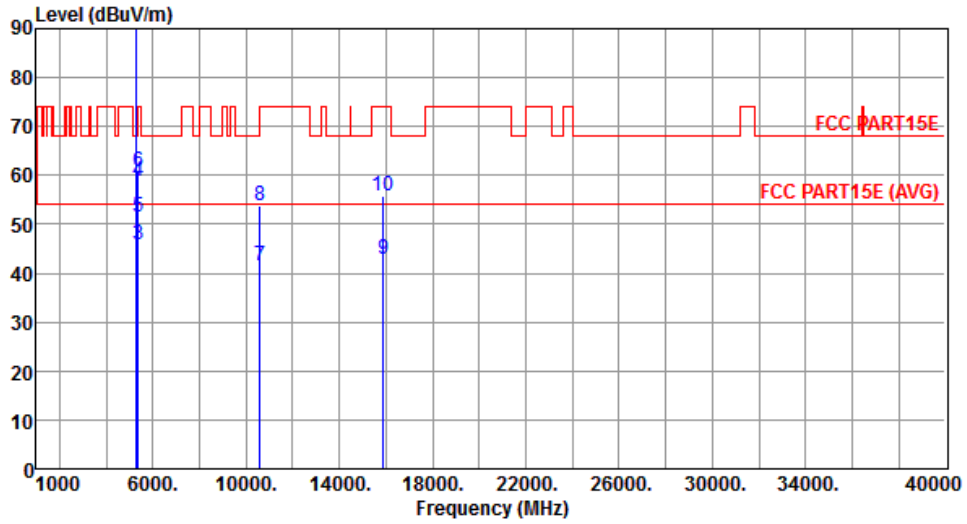
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5300 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5300.00 | 106.58 | | | 104.98 | 1.60 | Average | 193 | 298 |
| 2 | * | 5300.00 | 117.95 | | | 116.35 | 1.60 | Peak | 193 | 298 |
| 3 | | 5350.00 | 45.98 | 54.00 | -8.02 | 44.29 | 1.69 | Average | 193 | 298 |
| 4 | | 5350.00 | 58.74 | 74.00 | -15.26 | 57.05 | 1.69 | Peak | 193 | 298 |
| 5 | | 5380.00 | 51.61 | 54.00 | -2.39 | 49.86 | 1.75 | Average | 193 | 298 |
| 6 | | 5380.00 | 60.86 | 74.00 | -13.14 | 59.11 | 1.75 | Peak | 193 | 298 |
| 7 | | 10600.00 | 41.35 | 54.00 | -12.65 | 28.42 | 12.93 | Average | 117 | 129 |
| 8 | | 10600.00 | 53.96 | 74.00 | -20.04 | 41.03 | 12.93 | Peak | 117 | 129 |
| 9 | | 15900.00 | 42.84 | 54.00 | -11.16 | 28.54 | 14.30 | Average | 105 | 101 |
| 10 | | 15900.00 | 55.91 | 74.00 | -18.09 | 41.61 | 14.30 | Peak | 105 | 101 |

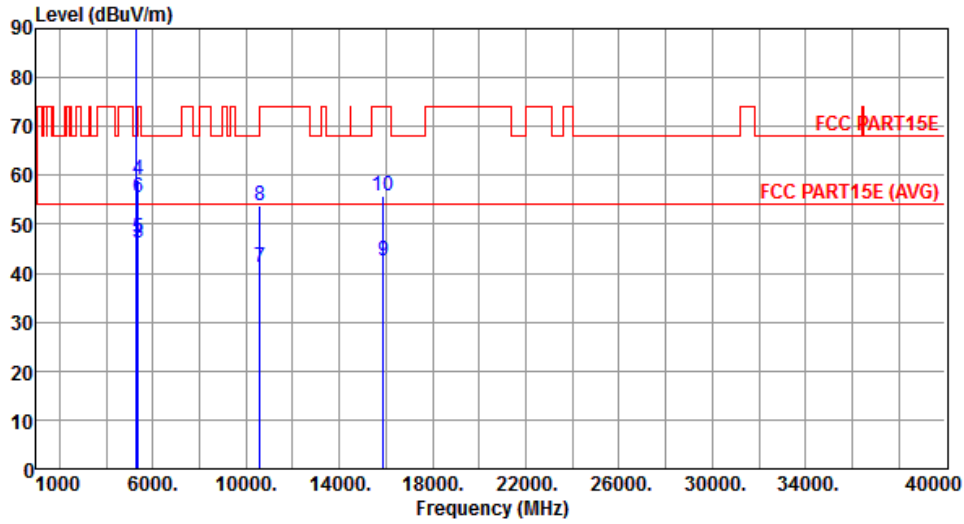
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5300 |
| Polarization | Vertical | | |



| | | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn |
|----|---|----------|----------|--------|--------|---------|--------|---------|------|-------|
| | | MHz | level | dBuV/m | dB | reading | dB | | High | Table |
| | | | dBuV/m | | | dBuV | | | cm | deg |
| 1 | * | 5300.00 | 100.84 | | | 99.24 | 1.60 | Average | 205 | 16 |
| 2 | * | 5300.00 | 112.03 | | | 110.43 | 1.60 | Peak | 205 | 16 |
| 3 | | 5350.00 | 46.25 | 54.00 | -7.75 | 44.56 | 1.69 | Average | 205 | 16 |
| 4 | | 5350.00 | 59.14 | 74.00 | -14.86 | 57.45 | 1.69 | Peak | 205 | 16 |
| 5 | | 5380.00 | 47.28 | 54.00 | -6.72 | 45.53 | 1.75 | Average | 205 | 16 |
| 6 | | 5380.00 | 55.51 | 74.00 | -18.49 | 53.76 | 1.75 | Peak | 205 | 16 |
| 7 | | 10600.00 | 41.05 | 54.00 | -12.95 | 28.12 | 12.93 | Average | 129 | 23 |
| 8 | | 10600.00 | 53.76 | 74.00 | -20.24 | 40.83 | 12.93 | Peak | 129 | 23 |
| 9 | | 15900.00 | 42.61 | 54.00 | -11.39 | 28.31 | 14.30 | Average | 124 | 26 |
| 10 | | 15900.00 | 55.72 | 74.00 | -18.28 | 41.42 | 14.30 | Peak | 124 | 26 |

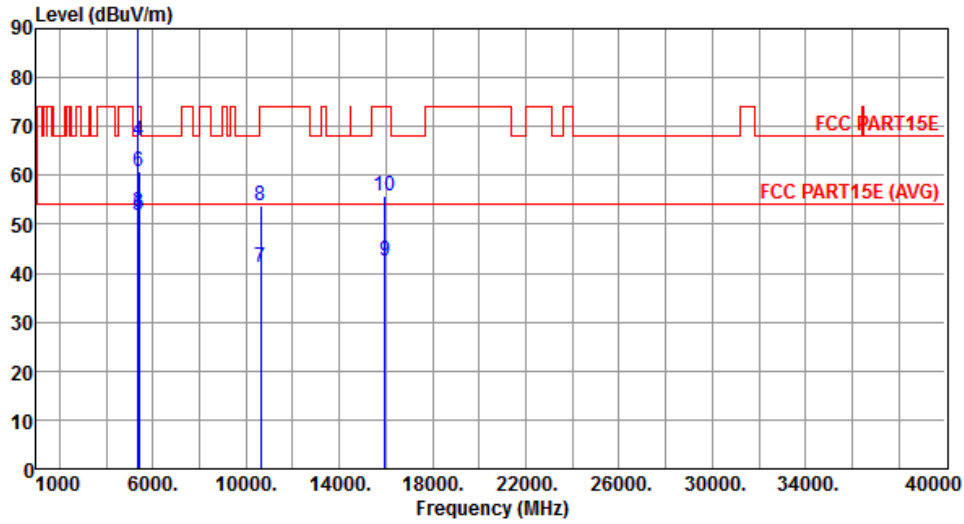
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5320 |
| Polarization | Horizontal | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5320.00 | 107.46 | | | 105.82 | 1.64 | Average | 209 | 55 |
| 2 | * | 5320.00 | 118.22 | | | 116.58 | 1.64 | Peak | 209 | 55 |
| 3 | | 5350.00 | 52.51 | 54.00 | -1.49 | 50.82 | 1.69 | Average | 209 | 55 |
| 4 | | 5350.00 | 67.14 | 74.00 | -6.86 | 65.45 | 1.69 | Peak | 209 | 55 |
| 5 | | 5400.00 | 51.88 | 54.00 | -2.12 | 50.10 | 1.78 | Average | 209 | 55 |
| 6 | | 5400.00 | 60.74 | 74.00 | -13.26 | 58.96 | 1.78 | Peak | 209 | 55 |
| 7 | | 10640.00 | 41.22 | 54.00 | -12.78 | 28.20 | 13.02 | Average | 123 | 136 |
| 8 | | 10640.00 | 53.82 | 74.00 | -20.18 | 40.80 | 13.02 | Peak | 123 | 136 |
| 9 | | 15960.00 | 42.65 | 54.00 | -11.35 | 28.40 | 14.25 | Average | 105 | 101 |
| 10 | | 15960.00 | 55.78 | 74.00 | -18.22 | 41.53 | 14.25 | Peak | 105 | 101 |

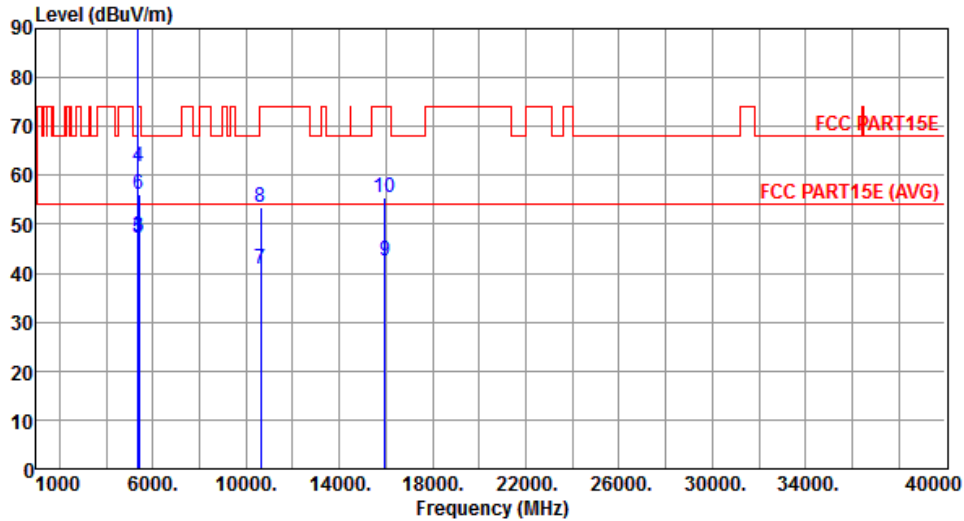
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5320 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|----|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5320.00 | 101.65 | | | 100.01 | 1.64 | Average | 208 | 9 |
| 2 | * | 5320.00 | 112.52 | | | 110.88 | 1.64 | Peak | 208 | 9 |
| 3 | | 5350.00 | 47.62 | 54.00 | -6.38 | 45.93 | 1.69 | Average | 208 | 9 |
| 4 | | 5350.00 | 61.88 | 74.00 | -12.12 | 60.19 | 1.69 | Peak | 208 | 9 |
| 5 | | 5400.00 | 47.13 | 54.00 | -6.87 | 45.35 | 1.78 | Average | 208 | 9 |
| 6 | | 5400.00 | 56.27 | 74.00 | -17.73 | 54.49 | 1.78 | Peak | 208 | 9 |
| 7 | | 10640.00 | 40.95 | 54.00 | -13.05 | 27.93 | 13.02 | Average | 135 | 19 |
| 8 | | 10640.00 | 53.61 | 74.00 | -20.39 | 40.59 | 13.02 | Peak | 135 | 19 |
| 9 | | 15960.00 | 42.45 | 54.00 | -11.55 | 28.20 | 14.25 | Average | 129 | 28 |
| 10 | | 15960.00 | 55.61 | 74.00 | -18.39 | 41.36 | 14.25 | Peak | 129 | 28 |

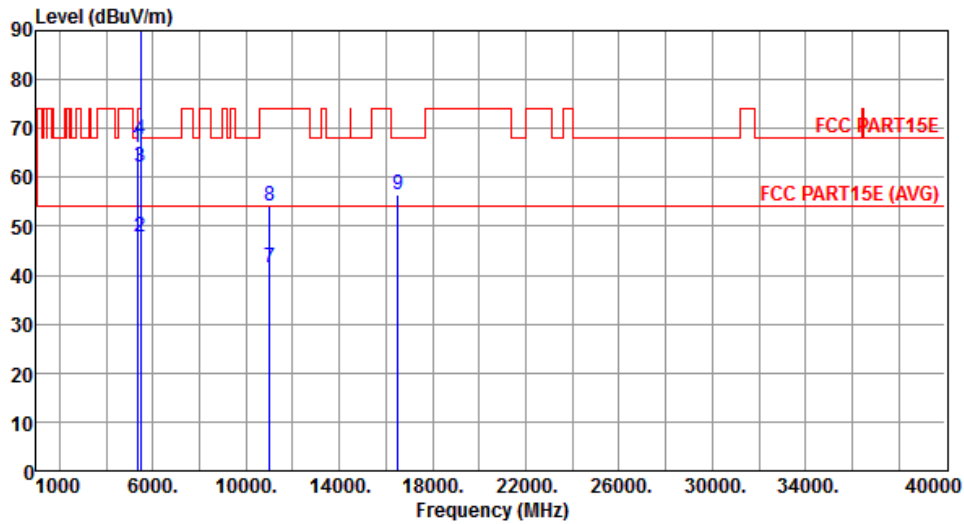
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5500 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5340.00 | 66.20 | 68.20 | -2.00 | 64.53 | 1.67 | Peak | 209 | 46 |
| 2 | 5460.00 | 47.72 | 54.00 | -6.28 | 45.85 | 1.87 | Average | 209 | 46 |
| 3 | 5460.00 | 62.12 | 74.00 | -11.88 | 60.25 | 1.87 | Peak | 209 | 46 |
| 4 | 5470.00 | 67.71 | 68.20 | -0.49 | 65.83 | 1.88 | Peak | 209 | 46 |
| 5 * | 5500.00 | 106.94 | | | 105.02 | 1.92 | Average | 209 | 46 |
| 6 * | 5500.00 | 117.88 | | | 115.96 | 1.92 | Peak | 209 | 46 |
| 7 | 11000.00 | 41.58 | 54.00 | -12.42 | 27.77 | 13.81 | Average | 123 | 116 |
| 8 | 11000.00 | 54.26 | 74.00 | -19.74 | 40.45 | 13.81 | Peak | 123 | 116 |
| 9 | 16500.00 | 56.35 | 68.20 | -11.85 | 40.69 | 15.66 | Peak | 114 | 91 |

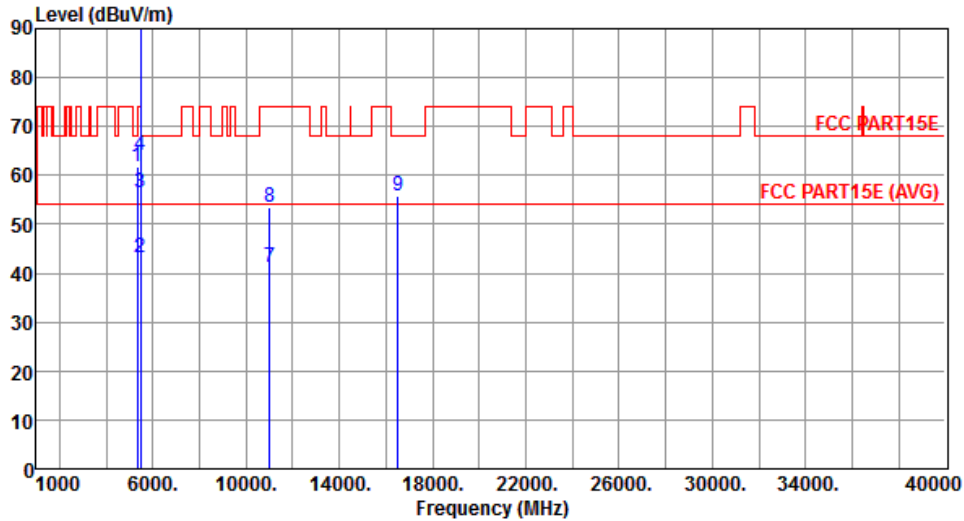
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5500 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5340.00 | 61.88 | 68.20 | -6.32 | 60.21 | 1.67 | Peak | 210 | 13 |
| 2 | 5460.00 | 43.29 | 54.00 | -10.71 | 41.42 | 1.87 | Average | 210 | 13 |
| 3 | 5460.00 | 56.56 | 74.00 | -17.44 | 54.69 | 1.87 | Peak | 210 | 13 |
| 4 | 5470.00 | 64.25 | 68.20 | -3.95 | 62.37 | 1.88 | Peak | 210 | 13 |
| 5 * | 5500.00 | 100.66 | | | 98.74 | 1.92 | Average | 210 | 13 |
| 6 * | 5500.00 | 111.34 | | | 109.42 | 1.92 | Peak | 210 | 13 |
| 7 | 11000.00 | 41.16 | 54.00 | -12.84 | 27.35 | 13.81 | Average | 119 | 21 |
| 8 | 11000.00 | 53.62 | 74.00 | -20.38 | 39.81 | 13.81 | Peak | 119 | 21 |
| 9 | 16500.00 | 55.91 | 68.20 | -12.29 | 40.25 | 15.66 | Peak | 122 | 34 |

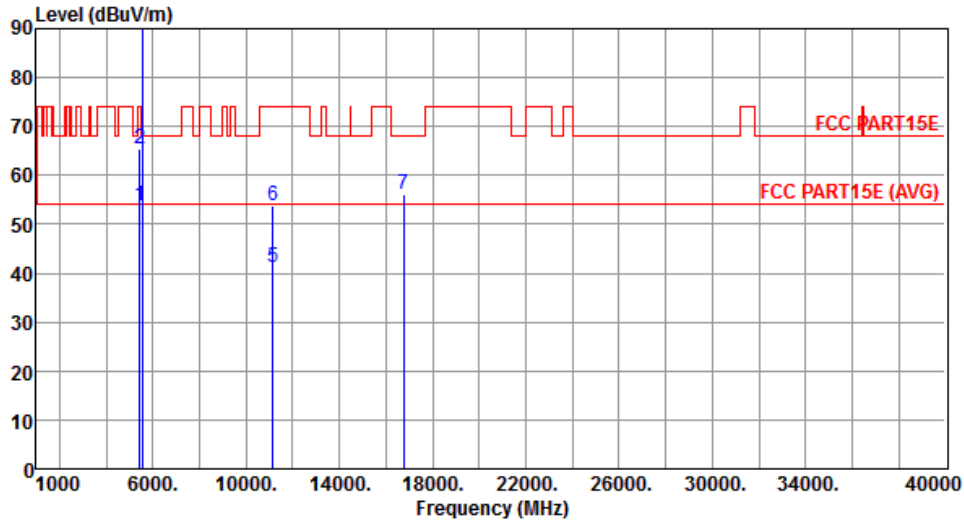
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5580 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5420.00 | 53.84 | 54.00 | -0.16 | 52.02 | 1.82 | Average | 208 | 61 |
| 2 | 5420.00 | 65.36 | 74.00 | -8.64 | 63.54 | 1.82 | Peak | 208 | 61 |
| 3 * | 5580.00 | 106.49 | | | 104.42 | 2.07 | Average | 204 | 56 |
| 4 * | 5580.00 | 116.66 | | | 114.59 | 2.07 | Peak | 204 | 56 |
| 5 | 11160.00 | 41.24 | 54.00 | -12.76 | 27.25 | 13.99 | Average | 116 | 124 |
| 6 | 11160.00 | 53.89 | 74.00 | -20.11 | 39.90 | 13.99 | Peak | 116 | 124 |
| 7 | 16740.00 | 56.10 | 68.20 | -12.10 | 40.35 | 15.75 | Peak | 106 | 102 |

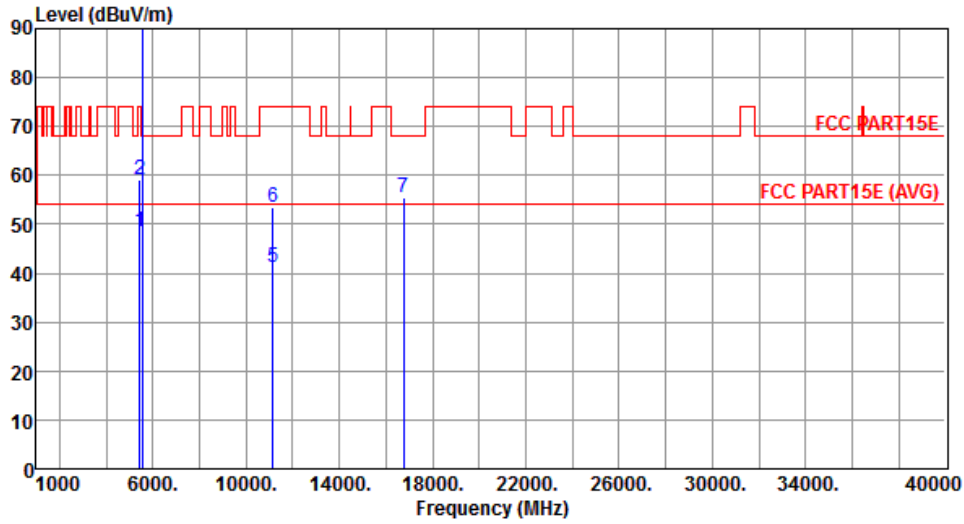
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5580 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5420.00 | 48.36 | 54.00 | -5.64 | 46.54 | 1.82 | Average | 205 | 13 |
| 2 | 5420.00 | 59.22 | 74.00 | -14.78 | 57.40 | 1.82 | Peak | 205 | 13 |
| 3 * | 5580.00 | 99.52 | | | 97.45 | 2.07 | Average | 205 | 13 |
| 4 * | 5580.00 | 110.14 | | | 108.07 | 2.07 | Peak | 205 | 13 |
| 5 | 11160.00 | 41.14 | 54.00 | -12.86 | 27.15 | 13.99 | Average | 129 | 38 |
| 6 | 11160.00 | 53.62 | 74.00 | -20.38 | 39.63 | 13.99 | Peak | 129 | 38 |
| 7 | 16740.00 | 55.62 | 68.20 | -12.58 | 39.87 | 15.75 | Peak | 129 | 31 |

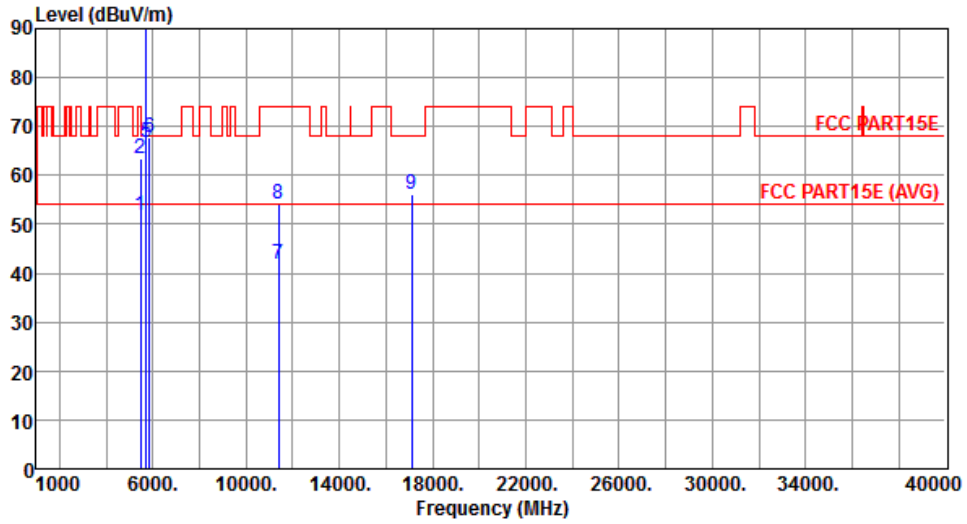
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5700 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 51.69 | 54.00 | -2.31 | 49.82 | 1.87 | Average | 193 | 45 |
| 2 | 5460.00 | 63.48 | 74.00 | -10.52 | 61.61 | 1.87 | Peak | 193 | 45 |
| 3 * | 5700.00 | 106.77 | | | 104.40 | 2.37 | Average | 193 | 45 |
| 4 * | 5700.00 | 117.32 | | | 114.95 | 2.37 | Peak | 193 | 45 |
| 5 | 5725.00 | 66.71 | 68.20 | -1.49 | 64.28 | 2.43 | Peak | 193 | 45 |
| 6 | 5860.00 | 67.85 | 68.20 | -0.35 | 65.11 | 2.74 | Peak | 193 | 45 |
| 7 | 11400.00 | 41.68 | 54.00 | -12.32 | 27.43 | 14.25 | Average | 129 | 131 |
| 8 | 11400.00 | 54.29 | 74.00 | -19.71 | 40.04 | 14.25 | Peak | 129 | 131 |
| 9 | 17100.00 | 56.15 | 68.20 | -12.05 | 39.96 | 16.19 | Peak | 108 | 91 |

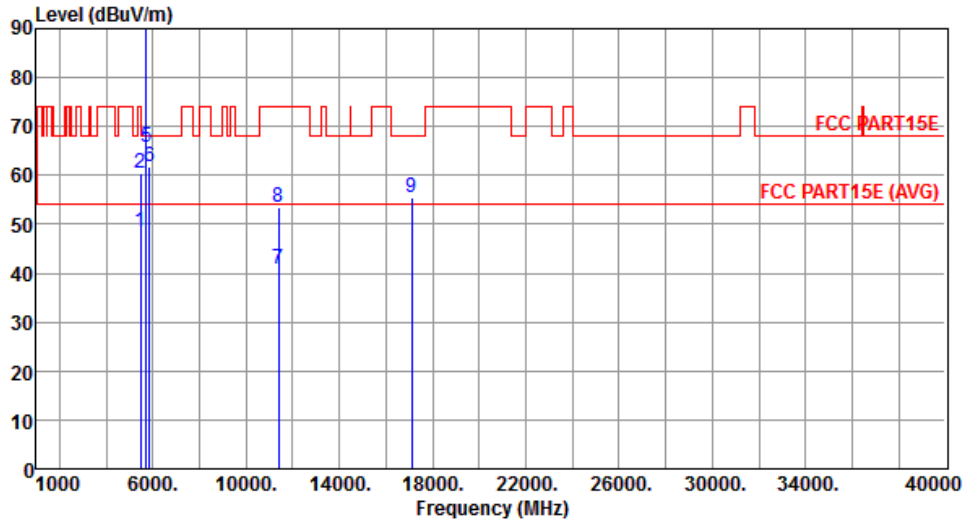
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5700 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 48.39 | 54.00 | -5.61 | 46.52 | 1.87 | Average | 203 | 16 |
| 2 | 5460.00 | 60.44 | 74.00 | -13.56 | 58.57 | 1.87 | Peak | 203 | 16 |
| 3 * | 5700.00 | 98.96 | | | 96.59 | 2.37 | Average | 203 | 16 |
| 4 * | 5700.00 | 111.26 | | | 108.89 | 2.37 | Peak | 203 | 16 |
| 5 | 5725.00 | 65.62 | 68.20 | -2.58 | 63.19 | 2.43 | Peak | 203 | 16 |
| 6 | 5860.00 | 61.89 | 68.20 | -6.31 | 59.15 | 2.74 | Peak | 203 | 16 |
| 7 | 11400.00 | 40.95 | 54.00 | -13.05 | 26.70 | 14.25 | Average | 119 | 23 |
| 8 | 11400.00 | 53.48 | 74.00 | -20.52 | 39.23 | 14.25 | Peak | 119 | 23 |
| 9 | 17100.00 | 55.56 | 68.20 | -12.64 | 39.37 | 16.19 | Peak | 128 | 27 |

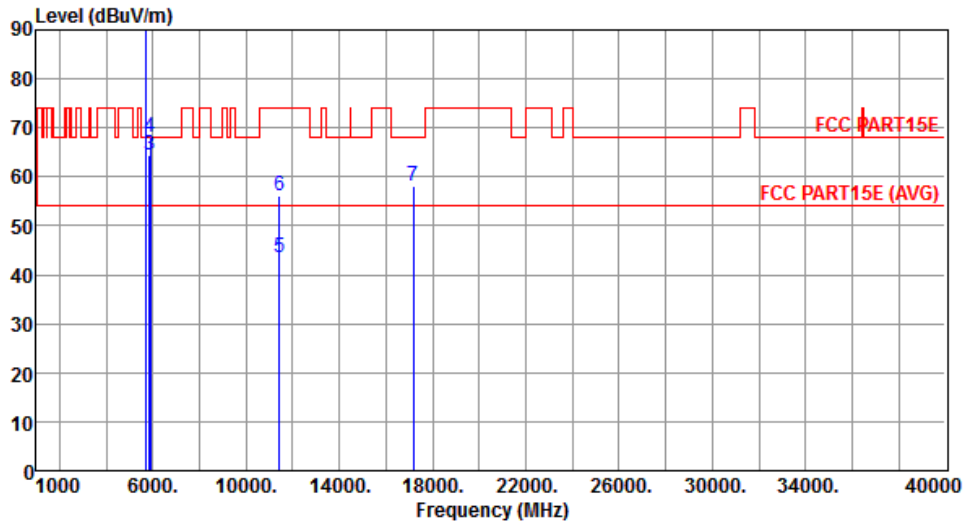
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5720 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 * | 5720.00 | 106.69 | | | 104.29 | 2.40 | Average | 192 | 50 |
| 2 * | 5720.00 | 118.48 | | | 116.08 | 2.40 | Peak | 192 | 50 |
| 3 | 5850.00 | 64.27 | 68.20 | -3.93 | 61.56 | 2.71 | Peak | 192 | 50 |
| 4 | 5880.00 | 68.06 | 68.20 | -0.14 | 65.28 | 2.78 | Peak | 192 | 50 |
| 5 | 11440.00 | 43.45 | 54.00 | -10.55 | 29.16 | 14.29 | Average | 100 | 126 |
| 6 | 11440.00 | 56.05 | 74.00 | -17.95 | 41.76 | 14.29 | Peak | 100 | 126 |
| 7 | 17160.00 | 58.22 | 68.20 | -9.98 | 41.82 | 16.40 | Peak | 100 | 96 |

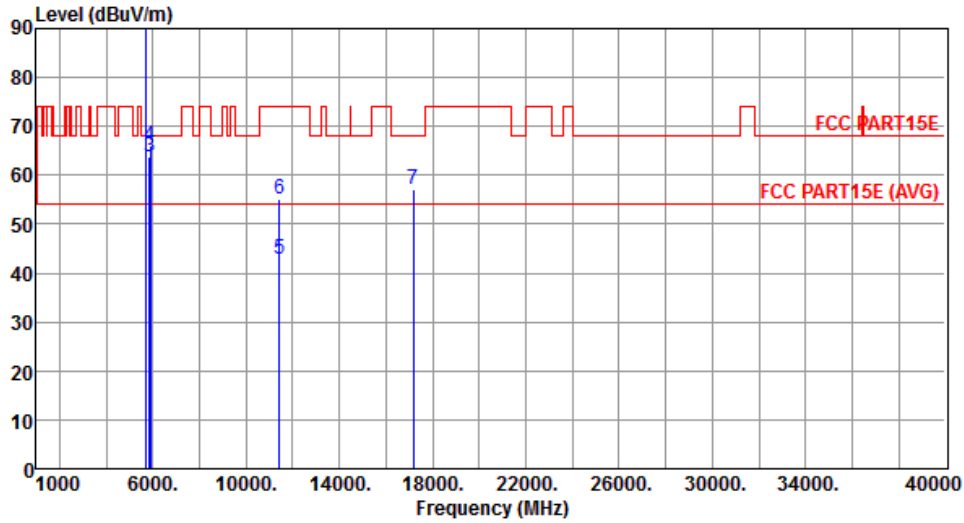
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT20 | Test Freq. (MHz) | 5720 |
| Polarization | Vertical | | |



| | | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|---|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | * | 5720.00 | 99.74 | | | 97.34 | 2.40 | Average | 217 | 345 |
| 2 | * | 5720.00 | 112.83 | | | 110.43 | 2.40 | Peak | 217 | 345 |
| 3 | | 5850.00 | 63.90 | 68.20 | -4.30 | 61.19 | 2.71 | Peak | 217 | 345 |
| 4 | | 5880.00 | 66.16 | 68.20 | -2.04 | 63.38 | 2.78 | Peak | 217 | 345 |
| 5 | | 11440.00 | 42.68 | 54.00 | -11.32 | 28.39 | 14.29 | Average | 100 | 49 |
| 6 | | 11440.00 | 55.19 | 74.00 | -18.81 | 40.90 | 14.29 | Peak | 100 | 49 |
| 7 | | 17160.00 | 57.24 | 68.20 | -10.96 | 40.84 | 16.40 | Peak | 100 | 66 |

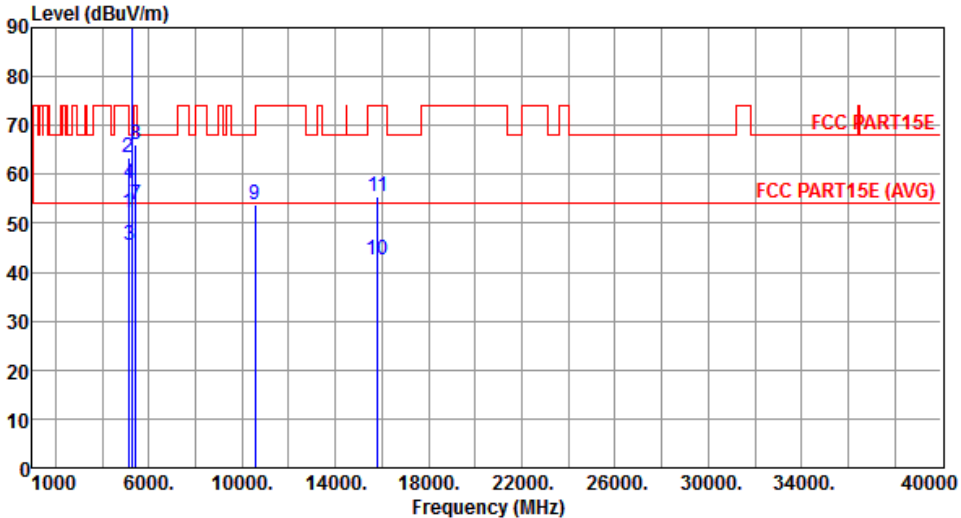
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

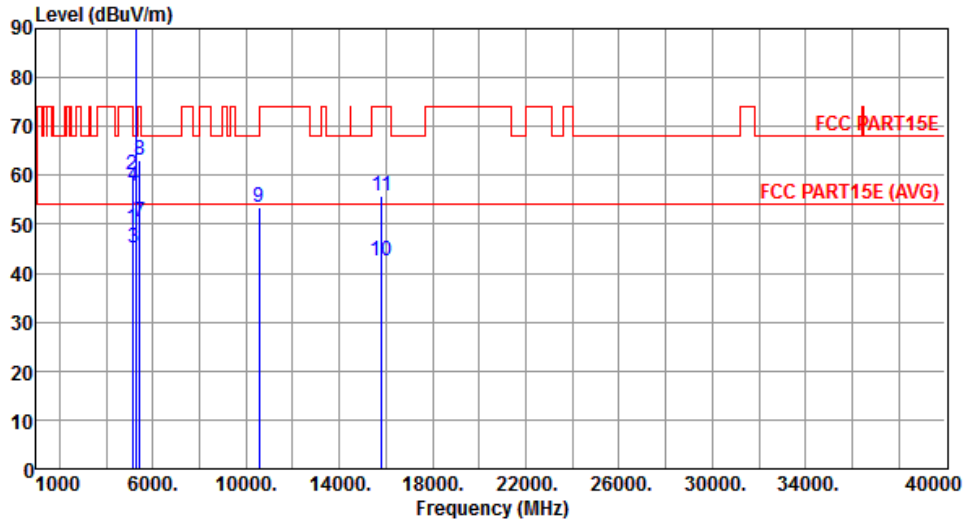
Note 3: "*" is Peak / Average value of fundamental frequency

3.5.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

| Modulation | VHT40 | Test Freq. (MHz) | 5270 | | | | | | |
|---|------------|-------------------|--------|--------|---------------|--------|---------|-------------|---------------|
| Polarization | Horizontal | | | | | | | | |
|  | | | | | | | | | |
| | Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | | cm | deg |
| 1 | 5110.00 | 52.03 | 54.00 | -1.97 | 50.75 | 1.28 | Average | 213 | 60 |
| 2 | 5110.00 | 63.36 | 74.00 | -10.64 | 62.08 | 1.28 | Peak | 213 | 60 |
| 3 | 5150.00 | 45.61 | 54.00 | -8.39 | 44.26 | 1.35 | Average | 213 | 60 |
| 4 | 5150.00 | 58.16 | 74.00 | -15.84 | 56.81 | 1.35 | Peak | 213 | 60 |
| 5 * | 5270.00 | 104.90 | | | 103.35 | 1.55 | Average | 213 | 60 |
| 6 * | 5270.00 | 115.18 | | | 113.63 | 1.55 | Peak | 213 | 60 |
| 7 | 5430.00 | 53.82 | 54.00 | -0.18 | 51.99 | 1.83 | Average | 231 | 62 |
| 8 | 5430.00 | 65.98 | 74.00 | -8.02 | 64.15 | 1.83 | Peak | 231 | 62 |
| 9 | 10540.00 | 53.65 | 68.20 | -14.55 | 40.85 | 12.80 | Peak | 108 | 103 |
| 10 | 15810.00 | 42.43 | 54.00 | -11.57 | 28.06 | 14.37 | Average | 103 | 84 |
| 11 | 15810.00 | 55.49 | 74.00 | -18.51 | 41.12 | 14.37 | Peak | 103 | 84 |

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: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5270 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5110.00 | 49.03 | 54.00 | -4.97 | 47.75 | 1.28 | Average | 209 | 16 |
| 2 | 5110.00 | 60.21 | 74.00 | -13.79 | 58.93 | 1.28 | Peak | 209 | 16 |
| 3 | 5150.00 | 45.14 | 54.00 | -8.86 | 43.79 | 1.35 | Average | 209 | 16 |
| 4 | 5150.00 | 57.86 | 74.00 | -16.14 | 56.51 | 1.35 | Peak | 209 | 16 |
| 5 * | 5270.00 | 98.46 | | | 96.91 | 1.55 | Average | 209 | 16 |
| 6 * | 5270.00 | 110.92 | | | 109.37 | 1.55 | Peak | 209 | 16 |
| 7 | 5430.00 | 50.45 | 54.00 | -3.55 | 48.62 | 1.83 | Average | 209 | 16 |
| 8 | 5430.00 | 63.11 | 74.00 | -10.89 | 61.28 | 1.83 | Peak | 209 | 16 |
| 9 | 10540.00 | 53.46 | 68.20 | -14.74 | 40.66 | 12.80 | Peak | 131 | 22 |
| 10 | 15810.00 | 42.51 | 54.00 | -11.49 | 28.14 | 14.37 | Average | 131 | 27 |
| 11 | 15810.00 | 55.63 | 74.00 | -18.37 | 41.26 | 14.37 | Peak | 131 | 27 |

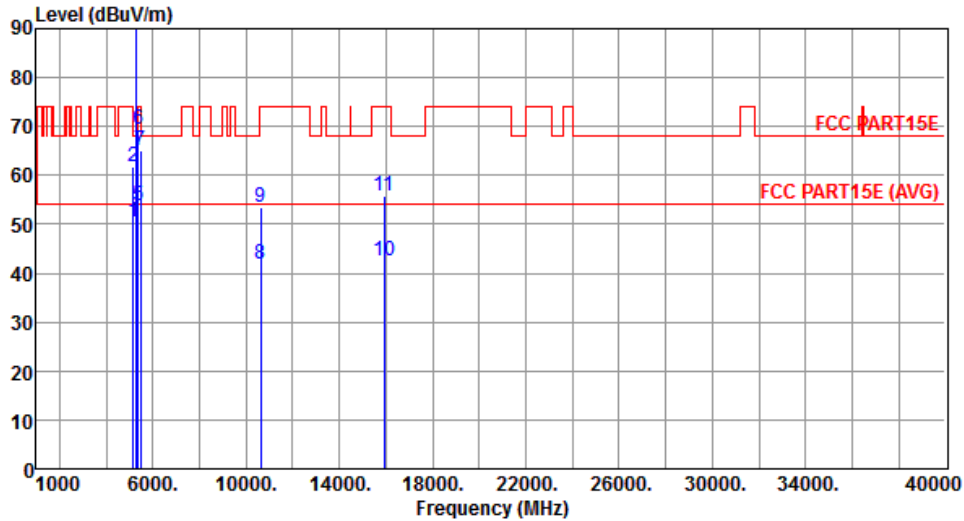
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5310 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00 | 50.47 | 54.00 | -3.53 | 49.12 | 1.35 | Average | 200 | 58 |
| 2 | 5150.00 | 61.63 | 74.00 | -12.37 | 60.28 | 1.35 | Peak | 200 | 58 |
| 3 * | 5310.00 | 103.06 | | | 101.43 | 1.63 | Average | 200 | 58 |
| 4 * | 5310.00 | 113.11 | | | 111.48 | 1.63 | Peak | 200 | 58 |
| 5 | 5350.00 | 53.74 | 54.00 | -0.26 | 52.05 | 1.69 | Average | 200 | 58 |
| 6 | 5350.00 | 69.28 | 74.00 | -4.72 | 67.59 | 1.69 | Peak | 200 | 58 |
| 7 | 5470.00 | 65.07 | 68.20 | -3.13 | 63.19 | 1.88 | Peak | 200 | 58 |
| 8 | 10620.00 | 41.95 | 54.00 | -12.05 | 28.98 | 12.97 | Average | 108 | 79 |
| 9 | 10620.00 | 53.47 | 74.00 | -20.53 | 40.50 | 12.97 | Peak | 108 | 79 |
| 10 | 15930.00 | 42.44 | 54.00 | -11.56 | 28.16 | 14.28 | Average | 107 | 125 |
| 11 | 15930.00 | 55.69 | 74.00 | -18.31 | 41.41 | 14.28 | Peak | 107 | 125 |

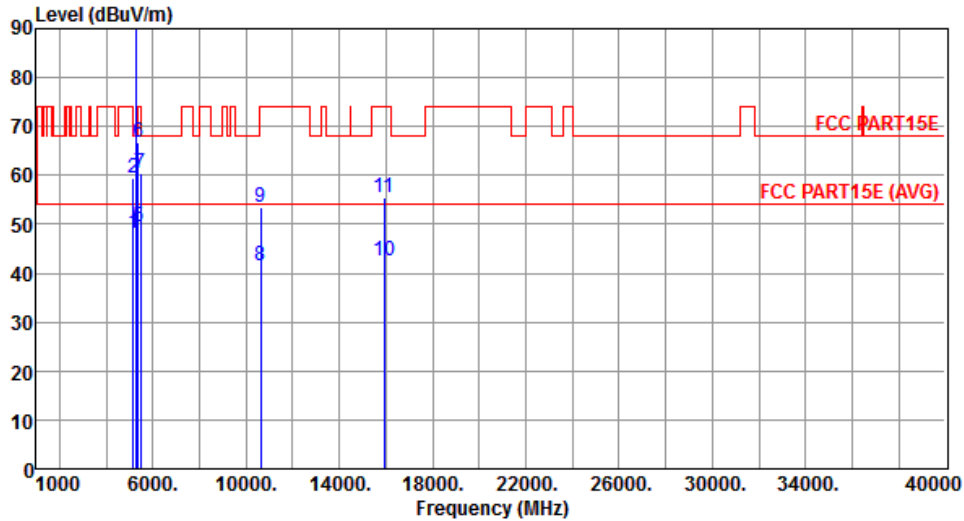
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5310 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00 | 48.14 | 54.00 | -5.86 | 46.79 | 1.35 | Average | 208 | 14 |
| 2 | 5150.00 | 59.46 | 74.00 | -14.54 | 58.11 | 1.35 | Peak | 208 | 14 |
| 3 * | 5310.00 | 97.43 | | | 95.80 | 1.63 | Average | 208 | 14 |
| 4 * | 5310.00 | 108.45 | | | 106.82 | 1.63 | Peak | 208 | 14 |
| 5 | 5350.00 | 49.35 | 54.00 | -4.65 | 47.66 | 1.69 | Average | 208 | 14 |
| 6 | 5350.00 | 66.72 | 74.00 | -7.28 | 65.03 | 1.69 | Peak | 208 | 14 |
| 7 | 5470.00 | 60.36 | 68.20 | -7.84 | 58.48 | 1.88 | Peak | 208 | 14 |
| 8 | 10620.00 | 41.56 | 54.00 | -12.44 | 28.59 | 12.97 | Average | 138 | 22 |
| 9 | 10620.00 | 53.52 | 74.00 | -20.48 | 40.55 | 12.97 | Peak | 138 | 22 |
| 10 | 15930.00 | 42.39 | 54.00 | -11.61 | 28.11 | 14.28 | Average | 138 | 26 |
| 11 | 15930.00 | 55.41 | 74.00 | -18.59 | 41.13 | 14.28 | Peak | 138 | 26 |

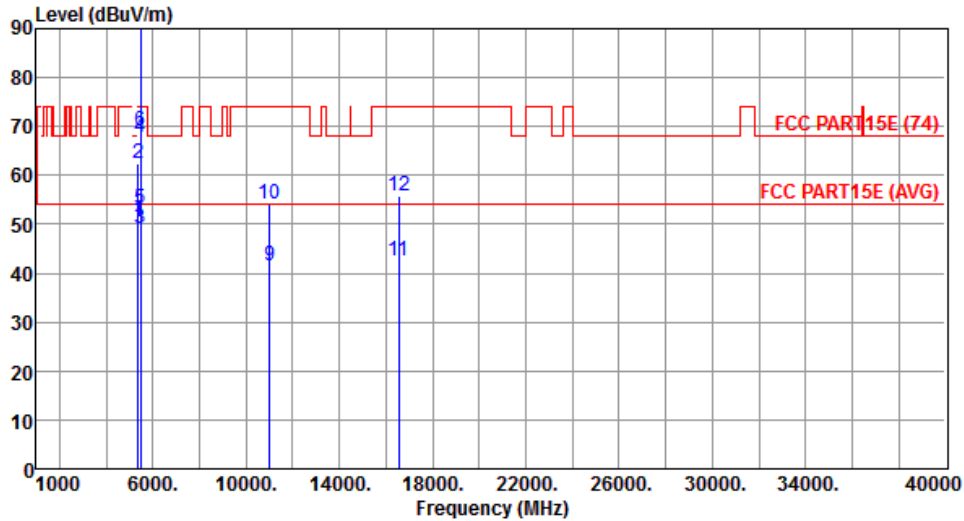
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5510 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5350.00 | 50.84 | 54.00 | -3.16 | 49.15 | 1.69 | Average | 200 | 46 |
| 2 | 5350.00 | 62.49 | 74.00 | -11.51 | 60.80 | 1.69 | Peak | 200 | 46 |
| 3 | 5460.00 | 49.15 | 54.00 | -4.85 | 47.28 | 1.87 | Average | 200 | 46 |
| 4 | 5460.00 | 67.69 | 74.00 | -6.31 | 65.82 | 1.87 | Peak | 200 | 46 |
| 5 | 5470.00 | 53.20 | 54.00 | -0.80 | 51.32 | 1.88 | Average | 200 | 46 |
| 6 | 5470.00 | 68.92 | 74.00 | -5.08 | 67.04 | 1.88 | Peak | 200 | 46 |
| 7 * | 5510.00 | 103.39 | | | 101.45 | 1.94 | Average | 200 | 46 |
| 8 * | 5510.00 | 114.30 | | | 112.36 | 1.94 | Peak | 200 | 46 |
| 9 | 11020.00 | 41.56 | 54.00 | -12.44 | 27.73 | 13.83 | Average | 105 | 101 |
| 10 | 11020.00 | 54.19 | 74.00 | -19.81 | 40.36 | 13.83 | Peak | 105 | 101 |
| 11 | 16530.00 | 42.55 | 54.00 | -11.45 | 26.88 | 15.67 | Average | 119 | 103 |
| 12 | 16530.00 | 55.68 | 74.00 | -18.32 | 40.01 | 15.67 | Peak | 119 | 103 |

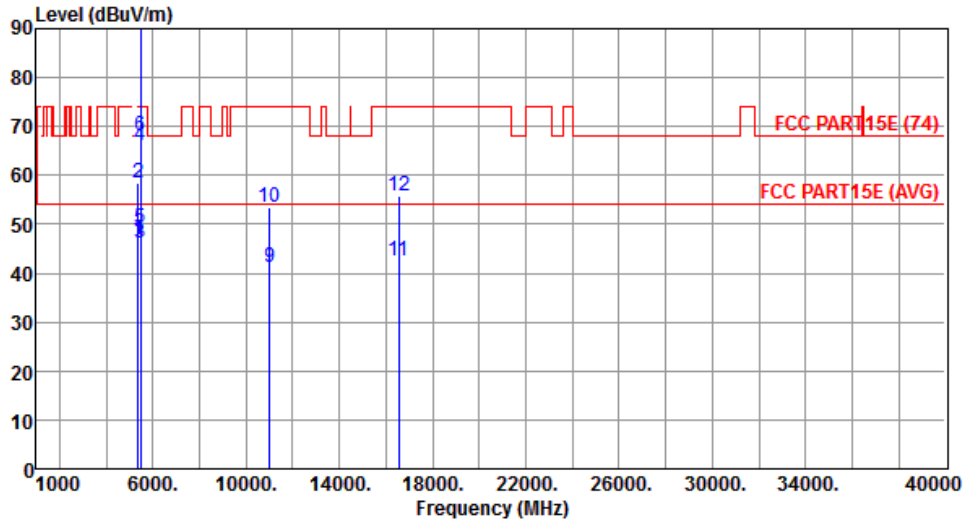
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5510 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5350.00 | 46.84 | 54.00 | -7.16 | 45.15 | 1.69 | Average | 206 | 19 |
| 2 | 5350.00 | 58.49 | 74.00 | -15.51 | 56.80 | 1.69 | Peak | 206 | 19 |
| 3 | 5460.00 | 46.18 | 54.00 | -7.82 | 44.31 | 1.87 | Average | 206 | 19 |
| 4 | 5460.00 | 66.25 | 74.00 | -7.75 | 64.38 | 1.87 | Peak | 206 | 19 |
| 5 | 5470.00 | 49.25 | 54.00 | -4.75 | 47.37 | 1.88 | Average | 206 | 19 |
| 6 | 5470.00 | 68.15 | 74.00 | -5.85 | 66.27 | 1.88 | Peak | 206 | 19 |
| 7 * | 5510.00 | 98.02 | | | 96.08 | 1.94 | Average | 206 | 19 |
| 8 * | 5510.00 | 108.42 | | | 106.48 | 1.94 | Peak | 206 | 19 |
| 9 | 11020.00 | 41.23 | 54.00 | -12.77 | 27.40 | 13.83 | Average | 129 | 34 |
| 10 | 11020.00 | 53.36 | 74.00 | -20.64 | 39.53 | 13.83 | Peak | 129 | 34 |
| 11 | 16530.00 | 42.53 | 54.00 | -11.47 | 26.86 | 15.67 | Average | 139 | 62 |
| 12 | 16530.00 | 55.81 | 74.00 | -18.19 | 40.14 | 15.67 | Peak | 139 | 62 |

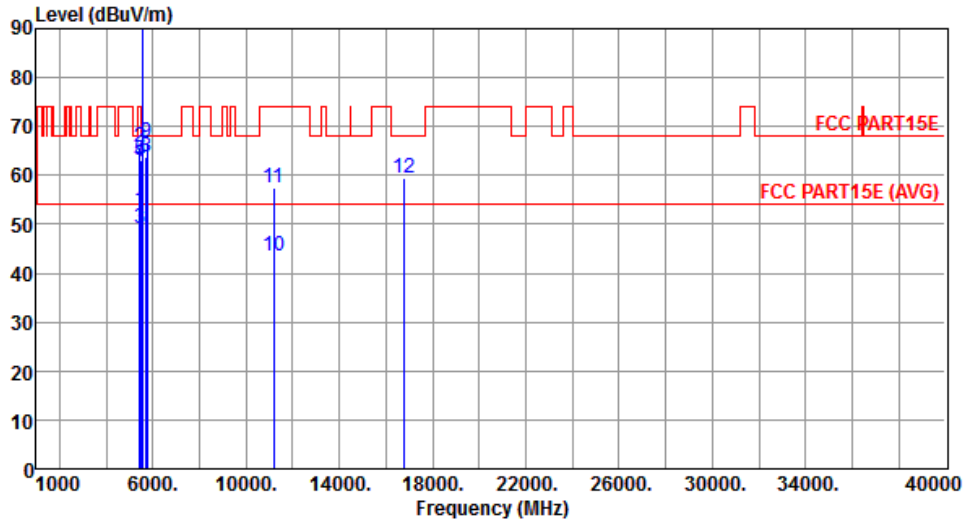
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5590 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5430.00 | 52.96 | 54.00 | -1.04 | 51.13 | 1.83 | Average | 188 | 60 |
| 2 | 5430.00 | 65.74 | 74.00 | -8.26 | 63.91 | 1.83 | Peak | 188 | 60 |
| 3 | 5460.00 | 49.01 | 54.00 | -4.99 | 47.14 | 1.87 | Average | 188 | 60 |
| 4 | 5460.00 | 62.69 | 74.00 | -11.31 | 60.82 | 1.87 | Peak | 188 | 60 |
| 5 | 5470.00 | 63.02 | 68.20 | -5.18 | 61.14 | 1.88 | Peak | 188 | 60 |
| 6 * | 5590.00 | 103.49 | | | 101.40 | 2.09 | Average | 188 | 60 |
| 7 * | 5590.00 | 115.28 | | | 113.19 | 2.09 | Peak | 188 | 60 |
| 8 | 5725.00 | 63.68 | 68.20 | -4.52 | 61.25 | 2.43 | Peak | 188 | 60 |
| 9 | 5750.00 | 66.71 | 68.20 | -1.49 | 64.23 | 2.48 | Peak | 188 | 298 |
| 10 | 11180.00 | 43.38 | 54.00 | -10.62 | 29.37 | 14.01 | Average | 100 | 113 |
| 11 | 11180.00 | 57.32 | 74.00 | -16.68 | 43.31 | 14.01 | Peak | 100 | 113 |
| 12 | 16770.00 | 59.33 | 68.20 | -8.87 | 43.57 | 15.76 | Peak | 100 | 134 |

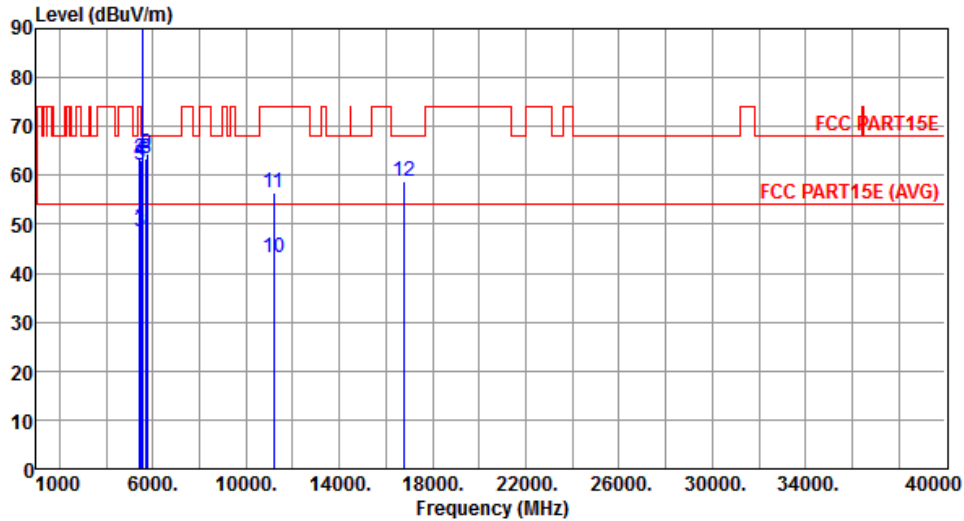
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5590 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5430.00 | 49.56 | 54.00 | -4.44 | 47.73 | 1.83 | Average | 242 | 350 |
| 2 | 5430.00 | 63.44 | 74.00 | -10.56 | 61.61 | 1.83 | Peak | 242 | 350 |
| 3 | 5460.00 | 48.61 | 54.00 | -5.39 | 46.74 | 1.87 | Average | 242 | 350 |
| 4 | 5460.00 | 62.95 | 74.00 | -11.05 | 61.08 | 1.87 | Peak | 242 | 350 |
| 5 | 5470.00 | 62.17 | 68.20 | -6.03 | 60.29 | 1.88 | Peak | 242 | 350 |
| 6 * | 5590.00 | 98.91 | | | 96.82 | 2.09 | Average | 242 | 350 |
| 7 * | 5590.00 | 111.18 | | | 109.09 | 2.09 | Peak | 242 | 350 |
| 8 | 5725.00 | 63.27 | 68.20 | -4.93 | 60.84 | 2.43 | Peak | 242 | 350 |
| 9 | 5750.00 | 64.50 | 68.20 | -3.70 | 62.02 | 2.48 | Peak | 242 | 350 |
| 10 | 11180.00 | 43.22 | 54.00 | -10.78 | 29.21 | 14.01 | Average | 100 | 85 |
| 11 | 11180.00 | 56.53 | 74.00 | -17.47 | 42.52 | 14.01 | Peak | 100 | 85 |
| 12 | 16770.00 | 58.88 | 68.20 | -9.32 | 43.12 | 15.76 | Peak | 100 | 48 |

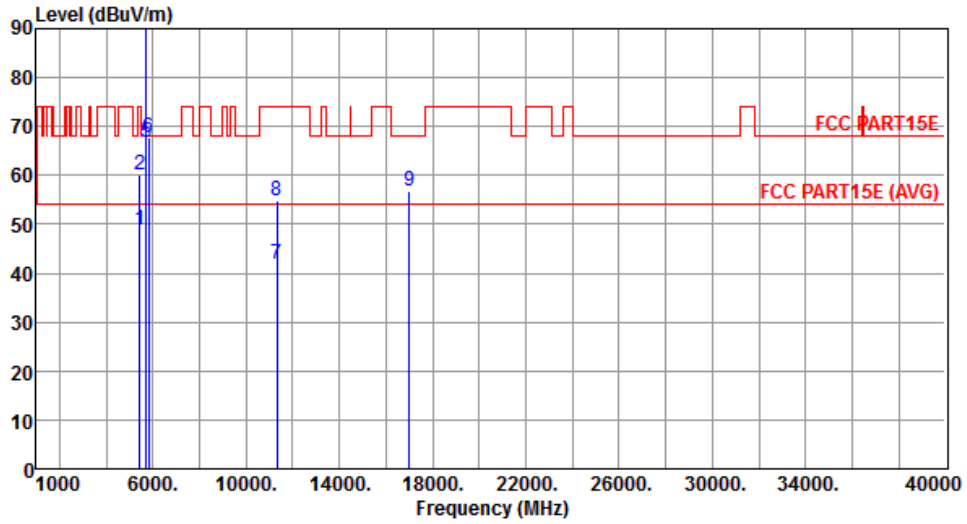
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5670 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5430.00 | 48.92 | 54.00 | -5.08 | 47.09 | 1.83 | Average | 219 | 301 |
| 2 | 5430.00 | 60.13 | 74.00 | -13.87 | 58.30 | 1.83 | Peak | 219 | 301 |
| 3 * | 5670.00 | 106.28 | | | 104.00 | 2.28 | Average | 219 | 301 |
| 4 * | 5670.00 | 118.07 | | | 115.79 | 2.28 | Peak | 219 | 301 |
| 5 | 5725.00 | 66.61 | 68.20 | -1.59 | 64.18 | 2.43 | Peak | 219 | 301 |
| 6 | 5830.00 | 67.58 | 68.20 | -0.62 | 64.90 | 2.68 | Peak | 219 | 301 |
| 7 | 11340.00 | 41.95 | 54.00 | -12.05 | 27.77 | 14.18 | Average | 109 | 105 |
| 8 | 11340.00 | 54.76 | 74.00 | -19.24 | 40.58 | 14.18 | Peak | 109 | 105 |
| 9 | 17010.00 | 56.92 | 68.20 | -11.28 | 41.03 | 15.89 | Peak | 118 | 134 |

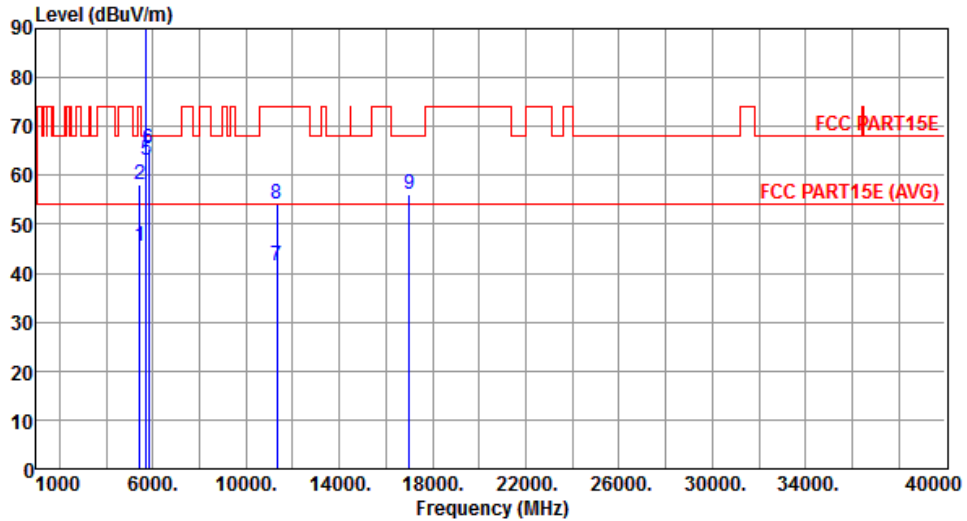
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5670 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5430.00 | 45.51 | 54.00 | -8.49 | 43.68 | 1.83 | Average | 204 | 16 |
| 2 | 5430.00 | 58.26 | 74.00 | -15.74 | 56.43 | 1.83 | Peak | 204 | 16 |
| 3 * | 5670.00 | 100.35 | | | 98.07 | 2.28 | Average | 204 | 16 |
| 4 * | 5670.00 | 112.46 | | | 110.18 | 2.28 | Peak | 204 | 16 |
| 5 | 5725.00 | 63.25 | 68.20 | -4.95 | 60.82 | 2.43 | Peak | 204 | 16 |
| 6 | 5830.00 | 65.42 | 68.20 | -2.78 | 62.74 | 2.68 | Peak | 204 | 16 |
| 7 | 11340.00 | 41.56 | 54.00 | -12.44 | 27.38 | 14.18 | Average | 129 | 11 |
| 8 | 11340.00 | 54.27 | 74.00 | -19.73 | 40.09 | 14.18 | Peak | 129 | 11 |
| 9 | 17010.00 | 56.16 | 68.20 | -12.04 | 40.27 | 15.89 | Peak | 129 | 17 |

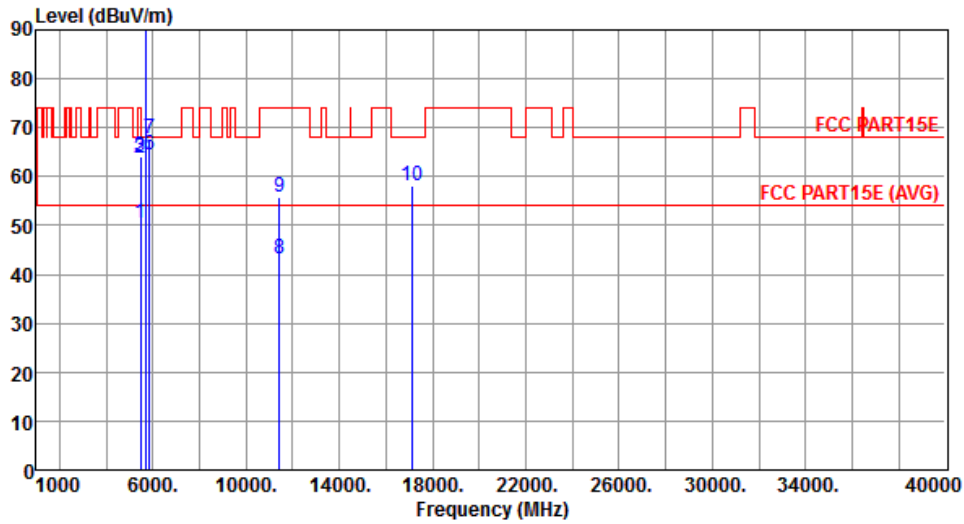
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5710 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 50.51 | 54.00 | -3.49 | 48.64 | 1.87 | Average | 195 | 52 |
| 2 | 5460.00 | 63.81 | 74.00 | -10.19 | 61.94 | 1.87 | Peak | 195 | 52 |
| 3 | 5470.00 | 64.13 | 68.20 | -4.07 | 62.25 | 1.88 | Peak | 195 | 52 |
| 4 * | 5710.00 | 104.11 | | | 101.73 | 2.38 | Average | 195 | 52 |
| 5 * | 5710.00 | 116.39 | | | 114.01 | 2.38 | Peak | 195 | 52 |
| 6 | 5850.00 | 64.57 | 68.20 | -3.63 | 61.86 | 2.71 | Peak | 195 | 52 |
| 7 | 5870.00 | 67.90 | 68.20 | -0.30 | 65.15 | 2.75 | Peak | 195 | 52 |
| 8 | 11420.00 | 43.22 | 54.00 | -10.78 | 28.95 | 14.27 | Average | 100 | 131 |
| 9 | 11420.00 | 55.80 | 74.00 | -18.20 | 41.53 | 14.27 | Peak | 100 | 131 |
| 10 | 17130.00 | 57.95 | 68.20 | -10.25 | 41.66 | 16.29 | Peak | 100 | 103 |

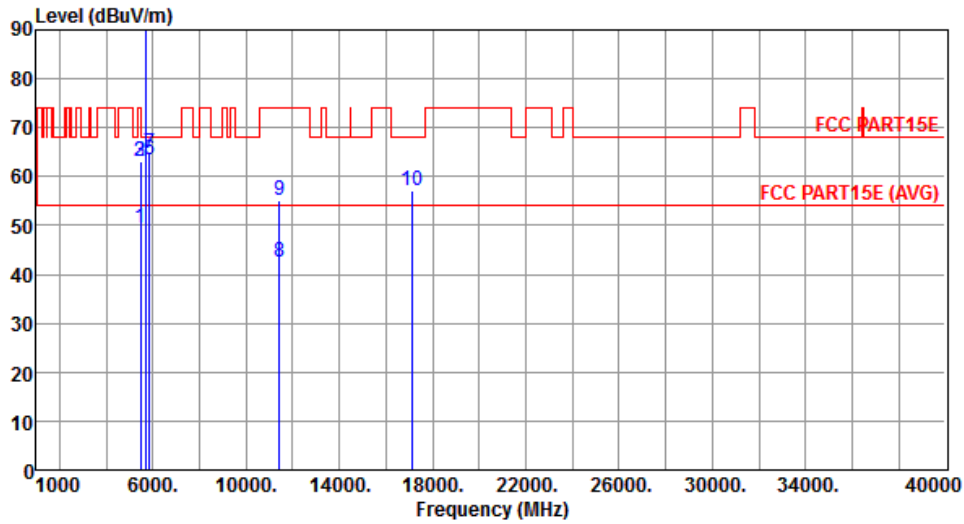
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT40 | Test Freq. (MHz) | 5710 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 49.40 | 54.00 | -4.60 | 47.53 | 1.87 | Average | 216 | 346 |
| 2 | 5460.00 | 62.94 | 74.00 | -11.06 | 61.07 | 1.87 | Peak | 216 | 346 |
| 3 | 5470.00 | 63.15 | 68.20 | -5.05 | 61.27 | 1.88 | Peak | 216 | 346 |
| 4 * | 5710.00 | 98.55 | | | 96.17 | 2.38 | Average | 216 | 346 |
| 5 * | 5710.00 | 111.00 | | | 108.62 | 2.38 | Peak | 216 | 346 |
| 6 | 5850.00 | 63.39 | 68.20 | -4.81 | 60.68 | 2.71 | Peak | 216 | 346 |
| 7 | 5870.00 | 64.76 | 68.20 | -3.44 | 62.01 | 2.75 | Peak | 216 | 346 |
| 8 | 11420.00 | 42.59 | 54.00 | -11.41 | 28.32 | 14.27 | Average | 100 | 62 |
| 9 | 11420.00 | 55.06 | 74.00 | -18.94 | 40.79 | 14.27 | Peak | 100 | 62 |
| 10 | 17130.00 | 56.97 | 68.20 | -11.23 | 40.68 | 16.29 | Peak | 100 | 74 |

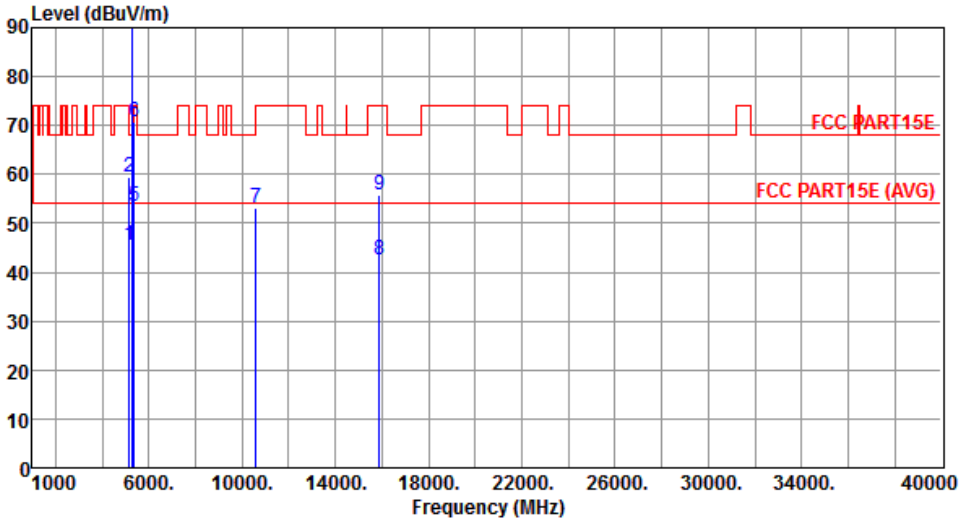
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

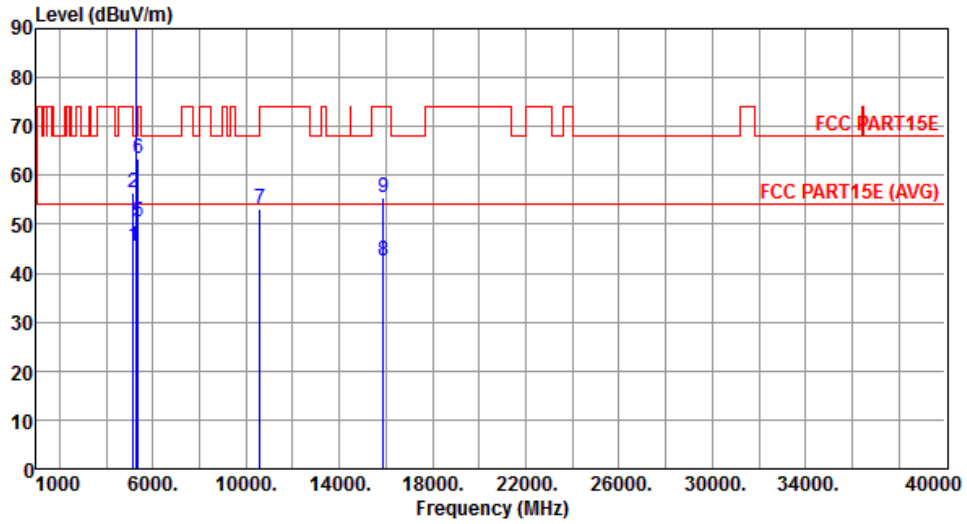
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

3.5.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

| Modulation | VHT80 | Test Freq. (MHz) | 5290 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|------------------|----------------|------------|--------|------------|----------|------------|----------|------------|-----|--------|--------|----|------|----|--|----|-----|---|---------|-------|-------|-------|-------|------|---------|-----|-----|---|---------|-------|-------|--------|-------|------|------|-----|-----|-----|---------|-------|--|--|-------|------|---------|-----|-----|-----|---------|--------|--|--|--------|------|------|-----|-----|---|---------|-------|-------|-------|-------|------|---------|-----|-----|---|---------|-------|-------|-------|-------|------|------|-----|-----|---|----------|-------|-------|--------|-------|-------|------|-----|----|---|----------|-------|-------|--------|-------|-------|---------|-----|-----|---|----------|-------|-------|--------|-------|-------|------|-----|-----|
| Polarization | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High</th> <th>Turn Table</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>45.50</td> <td>54.00</td> <td>-8.50</td> <td>44.15</td> <td>1.35</td> <td>Average</td> <td>219</td> <td>299</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>59.47</td> <td>74.00</td> <td>-14.53</td> <td>58.12</td> <td>1.35</td> <td>Peak</td> <td>219</td> <td>299</td> </tr> <tr> <td>3 *</td> <td>5290.00</td> <td>98.13</td> <td></td> <td></td> <td>96.55</td> <td>1.58</td> <td>Average</td> <td>219</td> <td>299</td> </tr> <tr> <td>4 *</td> <td>5290.00</td> <td>108.44</td> <td></td> <td></td> <td>106.86</td> <td>1.58</td> <td>Peak</td> <td>219</td> <td>299</td> </tr> <tr> <td>5</td> <td>5350.00</td> <td>53.55</td> <td>54.00</td> <td>-0.45</td> <td>51.86</td> <td>1.69</td> <td>Average</td> <td>219</td> <td>299</td> </tr> <tr> <td>6</td> <td>5350.00</td> <td>70.57</td> <td>74.00</td> <td>-3.43</td> <td>68.88</td> <td>1.69</td> <td>Peak</td> <td>219</td> <td>299</td> </tr> <tr> <td>7</td> <td>10580.00</td> <td>53.26</td> <td>68.20</td> <td>-14.94</td> <td>40.37</td> <td>12.89</td> <td>Peak</td> <td>119</td> <td>85</td> </tr> <tr> <td>8</td> <td>15870.00</td> <td>42.63</td> <td>54.00</td> <td>-11.37</td> <td>28.30</td> <td>14.33</td> <td>Average</td> <td>106</td> <td>121</td> </tr> <tr> <td>9</td> <td>15870.00</td> <td>55.81</td> <td>74.00</td> <td>-18.19</td> <td>41.48</td> <td>14.33</td> <td>Peak</td> <td>106</td> <td>121</td> </tr> </tbody> </table> | Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | | cm | deg | 1 | 5150.00 | 45.50 | 54.00 | -8.50 | 44.15 | 1.35 | Average | 219 | 299 | 2 | 5150.00 | 59.47 | 74.00 | -14.53 | 58.12 | 1.35 | Peak | 219 | 299 | 3 * | 5290.00 | 98.13 | | | 96.55 | 1.58 | Average | 219 | 299 | 4 * | 5290.00 | 108.44 | | | 106.86 | 1.58 | Peak | 219 | 299 | 5 | 5350.00 | 53.55 | 54.00 | -0.45 | 51.86 | 1.69 | Average | 219 | 299 | 6 | 5350.00 | 70.57 | 74.00 | -3.43 | 68.88 | 1.69 | Peak | 219 | 299 | 7 | 10580.00 | 53.26 | 68.20 | -14.94 | 40.37 | 12.89 | Peak | 119 | 85 | 8 | 15870.00 | 42.63 | 54.00 | -11.37 | 28.30 | 14.33 | Average | 106 | 121 | 9 | 15870.00 | 55.81 | 74.00 | -18.19 | 41.48 | 14.33 | Peak | 106 | 121 |
| Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB | | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5150.00 | 45.50 | 54.00 | -8.50 | 44.15 | 1.35 | Average | 219 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5150.00 | 59.47 | 74.00 | -14.53 | 58.12 | 1.35 | Peak | 219 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 * | 5290.00 | 98.13 | | | 96.55 | 1.58 | Average | 219 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 * | 5290.00 | 108.44 | | | 106.86 | 1.58 | Peak | 219 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5350.00 | 53.55 | 54.00 | -0.45 | 51.86 | 1.69 | Average | 219 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5350.00 | 70.57 | 74.00 | -3.43 | 68.88 | 1.69 | Peak | 219 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 10580.00 | 53.26 | 68.20 | -14.94 | 40.37 | 12.89 | Peak | 119 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 15870.00 | 42.63 | 54.00 | -11.37 | 28.30 | 14.33 | Average | 106 | 121 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 15870.00 | 55.81 | 74.00 | -18.19 | 41.48 | 14.33 | Peak | 106 | 121 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>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: "*" is Peak / Average value of fundamental frequency</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5290 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5150.00 | 45.35 | 54.00 | -8.65 | 44.00 | 1.35 | Average | 208 | 19 |
| 2 | 5150.00 | 56.48 | 74.00 | -17.52 | 55.13 | 1.35 | Peak | 208 | 19 |
| 3 * | 5290.00 | 93.56 | | | 91.98 | 1.58 | Average | 208 | 19 |
| 4 * | 5290.00 | 102.65 | | | 101.07 | 1.58 | Peak | 208 | 19 |
| 5 | 5350.00 | 50.44 | 54.00 | -3.56 | 48.75 | 1.69 | Average | 208 | 19 |
| 6 | 5350.00 | 63.48 | 74.00 | -10.52 | 61.79 | 1.69 | Peak | 208 | 19 |
| 7 | 10580.00 | 53.21 | 68.20 | -14.99 | 40.32 | 12.89 | Peak | 131 | 17 |
| 8 | 15870.00 | 42.59 | 54.00 | -11.41 | 28.26 | 14.33 | Average | 141 | 29 |
| 9 | 15870.00 | 55.61 | 74.00 | -18.39 | 41.28 | 14.33 | Peak | 141 | 29 |

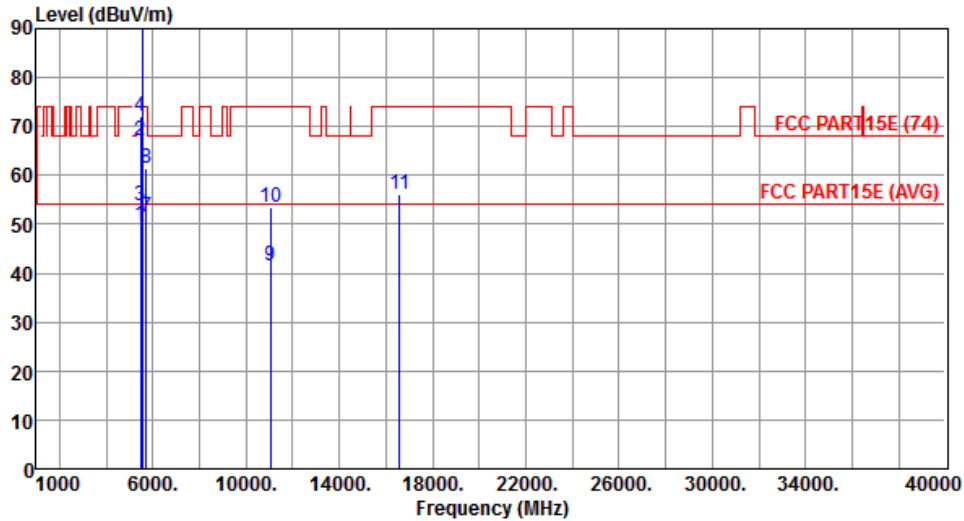
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5530 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 49.96 | 54.00 | -4.04 | 48.09 | 1.87 | Average | 216 | 296 |
| 2 | 5460.00 | 66.97 | 74.00 | -7.03 | 65.10 | 1.87 | Peak | 216 | 296 |
| 3 | 5470.00 | 53.65 | 54.00 | -0.35 | 51.77 | 1.88 | Average | 216 | 296 |
| 4 | 5470.00 | 72.13 | 74.00 | -1.87 | 70.25 | 1.88 | Peak | 216 | 296 |
| 5 * | 5530.00 | 98.39 | | | 96.41 | 1.98 | Average | 216 | 296 |
| 6 * | 5530.00 | 108.52 | | | 106.54 | 1.98 | Peak | 216 | 296 |
| 7 | 5725.00 | 51.46 | 54.00 | -2.54 | 49.03 | 2.43 | Average | 216 | 296 |
| 8 | 5725.00 | 61.43 | 74.00 | -12.57 | 59.00 | 2.43 | Peak | 216 | 296 |
| 9 | 11060.00 | 41.46 | 54.00 | -12.54 | 27.58 | 13.88 | Average | 122 | 54 |
| 10 | 11060.00 | 53.55 | 74.00 | -20.45 | 39.67 | 13.88 | Peak | 122 | 54 |
| 11 | 16590.00 | 55.96 | 74.00 | -18.04 | 40.27 | 15.69 | Peak | 115 | 109 |

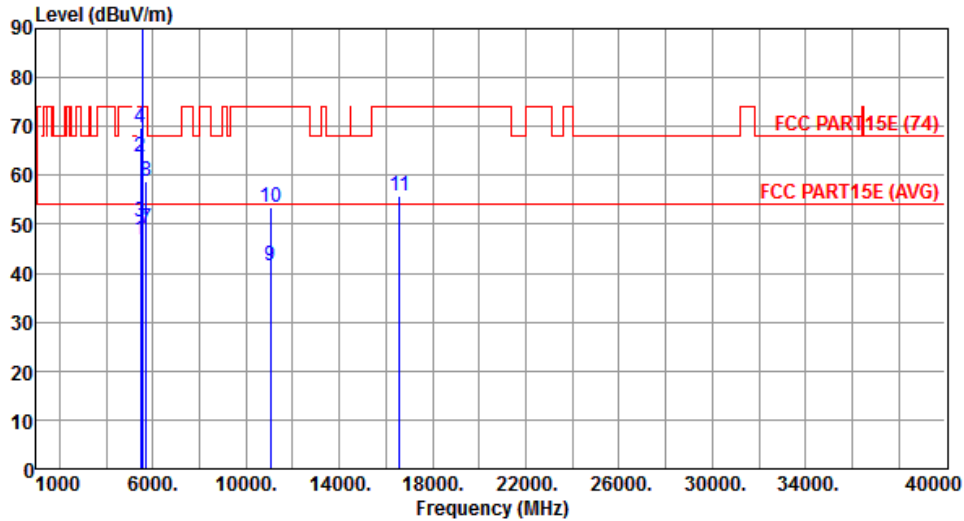
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5530 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 46.84 | 54.00 | -7.16 | 44.97 | 1.87 | Average | 203 | 19 |
| 2 | 5460.00 | 63.81 | 74.00 | -10.19 | 61.94 | 1.87 | Peak | 203 | 19 |
| 3 | 5470.00 | 50.45 | 54.00 | -3.55 | 48.57 | 1.88 | Average | 203 | 19 |
| 4 | 5470.00 | 69.78 | 74.00 | -4.22 | 67.90 | 1.88 | Peak | 203 | 19 |
| 5 * | 5530.00 | 93.68 | | | 91.70 | 1.98 | Average | 203 | 19 |
| 6 * | 5530.00 | 102.96 | | | 100.98 | 1.98 | Peak | 203 | 19 |
| 7 | 5725.00 | 49.25 | 54.00 | -4.75 | 46.82 | 2.43 | Average | 203 | 19 |
| 8 | 5725.00 | 58.66 | 74.00 | -15.34 | 56.23 | 2.43 | Peak | 203 | 19 |
| 9 | 11060.00 | 41.53 | 54.00 | -12.47 | 27.65 | 13.88 | Average | 123 | 44 |
| 10 | 11060.00 | 53.45 | 74.00 | -20.55 | 39.57 | 13.88 | Peak | 123 | 44 |
| 11 | 16590.00 | 55.92 | 74.00 | -18.08 | 40.23 | 15.69 | Peak | 135 | 28 |

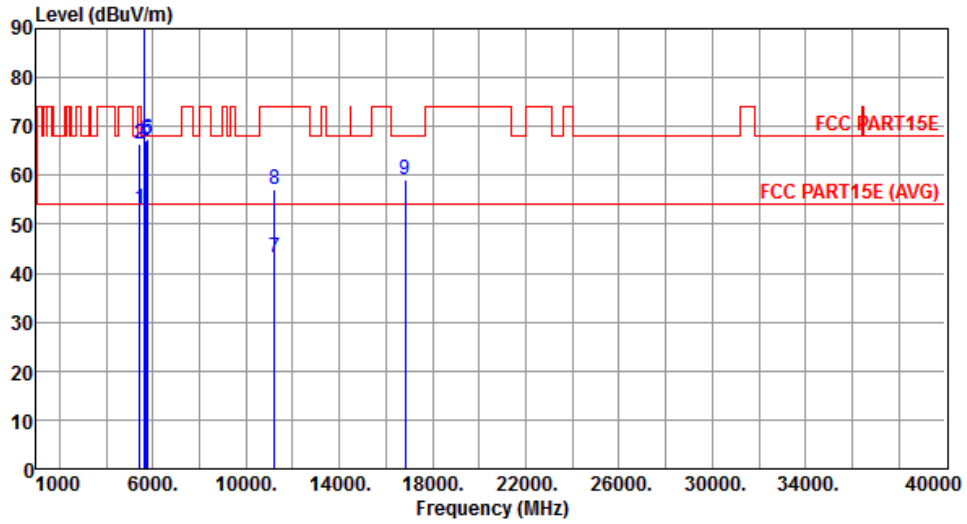
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5610 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5450.00 | 53.02 | 54.00 | -0.98 | 51.17 | 1.85 | Average | 200 | 51 |
| 2 | 5450.00 | 66.58 | 74.00 | -7.42 | 64.73 | 1.85 | Peak | 200 | 51 |
| 3 * | 5610.00 | 100.82 | | | 98.69 | 2.13 | Average | 200 | 51 |
| 4 * | 5610.00 | 111.47 | | | 109.34 | 2.13 | Peak | 200 | 51 |
| 5 | 5725.00 | 67.20 | 68.20 | -1.00 | 64.77 | 2.43 | Peak | 200 | 51 |
| 6 | 5770.00 | 67.52 | 68.20 | -0.68 | 64.99 | 2.53 | Peak | 200 | 51 |
| 7 | 11220.00 | 43.33 | 54.00 | -10.67 | 29.28 | 14.05 | Average | 100 | 118 |
| 8 | 11220.00 | 57.28 | 74.00 | -16.72 | 43.23 | 14.05 | Peak | 100 | 118 |
| 9 | 16830.00 | 59.07 | 68.20 | -9.13 | 43.28 | 15.79 | Peak | 100 | 143 |

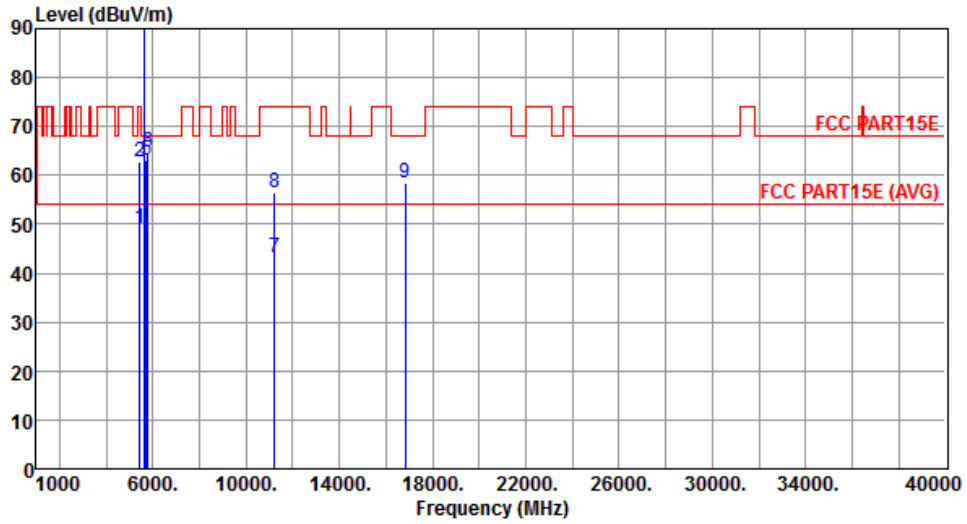
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5610 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5450.00 | 49.32 | 54.00 | -4.68 | 47.47 | 1.85 | Average | 240 | 351 |
| 2 | 5450.00 | 62.86 | 74.00 | -11.14 | 61.01 | 1.85 | Peak | 240 | 351 |
| 3 * | 5610.00 | 98.86 | | | 96.73 | 2.13 | Average | 240 | 351 |
| 4 * | 5610.00 | 108.04 | | | 105.91 | 2.13 | Peak | 240 | 351 |
| 5 | 5725.00 | 63.17 | 68.20 | -5.03 | 60.74 | 2.43 | Peak | 240 | 351 |
| 6 | 5770.00 | 64.63 | 68.20 | -3.57 | 62.10 | 2.53 | Peak | 240 | 351 |
| 7 | 11220.00 | 43.13 | 54.00 | -10.87 | 29.08 | 14.05 | Average | 100 | 79 |
| 8 | 11220.00 | 56.34 | 74.00 | -17.66 | 42.29 | 14.05 | Peak | 100 | 79 |
| 9 | 16830.00 | 58.47 | 68.20 | -9.73 | 42.68 | 15.79 | Peak | 100 | 53 |

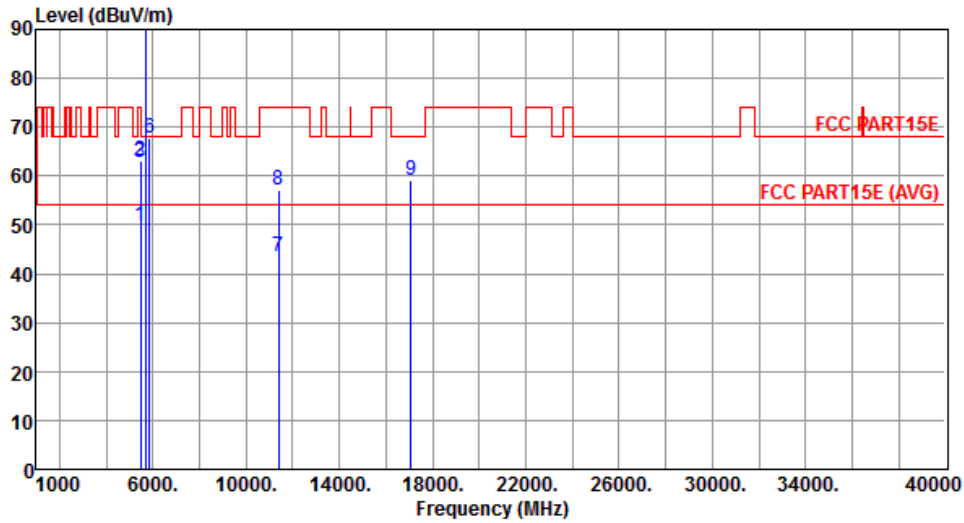
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|------------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5690 |
| Polarization | Horizontal | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 49.68 | 54.00 | -4.32 | 47.81 | 1.87 | Average | 179 | 46 |
| 2 | 5460.00 | 62.99 | 74.00 | -11.01 | 61.12 | 1.87 | Peak | 179 | 46 |
| 3 | 5470.00 | 62.87 | 68.20 | -5.33 | 60.99 | 1.88 | Peak | 179 | 46 |
| 4 * | 5690.00 | 103.41 | | | 101.07 | 2.34 | Average | 179 | 46 |
| 5 * | 5690.00 | 114.33 | | | 111.99 | 2.34 | Peak | 179 | 46 |
| 6 | 5850.00 | 67.78 | 68.20 | -0.42 | 65.07 | 2.71 | Peak | 179 | 46 |
| 7 | 11380.00 | 43.37 | 54.00 | -10.63 | 29.14 | 14.23 | Average | 100 | 106 |
| 8 | 11380.00 | 56.96 | 74.00 | -17.04 | 42.73 | 14.23 | Peak | 100 | 106 |
| 9 | 17070.00 | 59.09 | 68.20 | -9.11 | 43.00 | 16.09 | Peak | 100 | 153 |

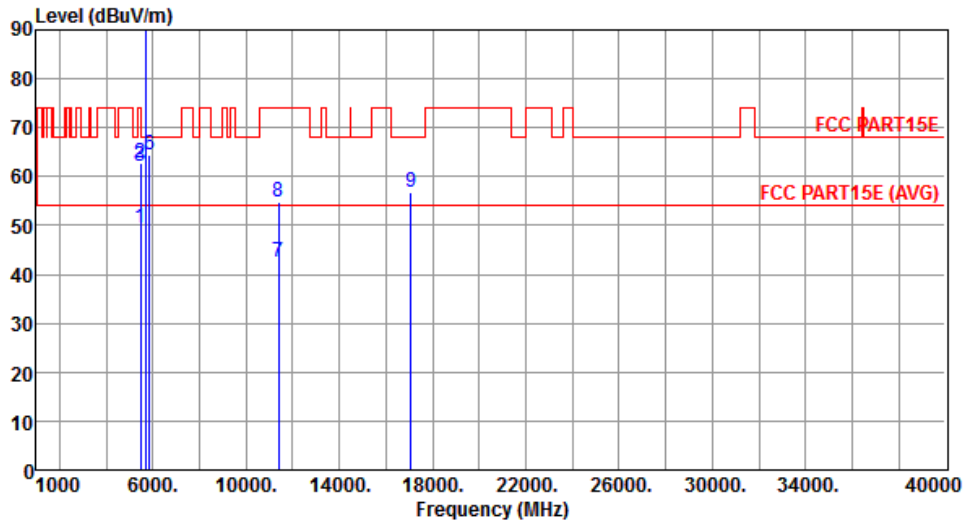
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Note 3: "*" is Peak / Average value of fundamental frequency

| | | | |
|---------------------|----------|-------------------------|------|
| Modulation | VHT80 | Test Freq. (MHz) | 5690 |
| Polarization | Vertical | | |



| | Freq. MHz | Emission level dBuV/m | Limit dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 5460.00 | 49.39 | 54.00 | -4.61 | 47.52 | 1.87 | Average | 219 | 347 |
| 2 | 5460.00 | 62.65 | 74.00 | -11.35 | 60.78 | 1.87 | Peak | 219 | 347 |
| 3 | 5470.00 | 62.02 | 68.20 | -6.18 | 60.14 | 1.88 | Peak | 219 | 347 |
| 4 * | 5690.00 | 97.19 | | | 94.85 | 2.34 | Average | 219 | 347 |
| 5 * | 5690.00 | 108.64 | | | 106.30 | 2.34 | Peak | 219 | 347 |
| 6 | 5850.00 | 64.56 | 68.20 | -3.64 | 61.85 | 2.71 | Peak | 219 | 347 |
| 7 | 11380.00 | 42.48 | 54.00 | -11.52 | 28.25 | 14.23 | Average | 100 | 54 |
| 8 | 11380.00 | 54.96 | 74.00 | -19.04 | 40.73 | 14.23 | Peak | 100 | 54 |
| 9 | 17070.00 | 56.76 | 68.20 | -11.44 | 40.67 | 16.09 | Peak | 100 | 74 |

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: "*" is Peak / Average value of fundamental frequency

3.6 Frequency Stability

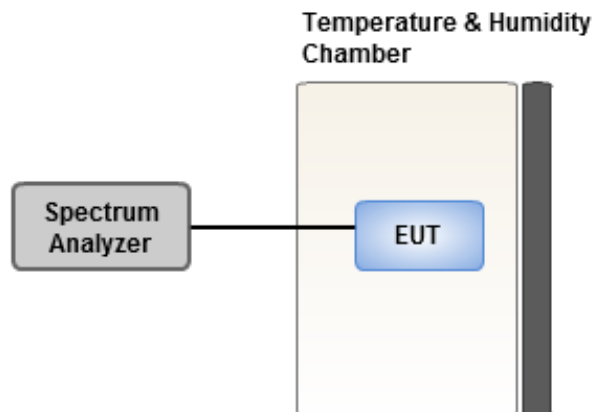
3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.6.2 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 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

| Frequency: 5580 MHz | Frequency Drift (ppm) | | | |
|------------------------|-----------------------|-----------------|-----------|-----------------|
| | 0 minute | 2 minutes | 5 minutes | 10 minutes |
| T20°C Vmax | -0.06 | -0.10 | -0.35 | -0.51 |
| T20°C Vmin | 0.29 | 0.53 | -0.10 | 0.21 |
| T50°C Vnom | 1.29 | 1.47 | 1.17 | 1.04 |
| T40°C Vnom | 0.46 | 0.03 | 0.23 | -0.06 |
| T30°C Vnom | 0.47 | 0.66 | 0.87 | 0.73 |
| T20°C Vnom | -0.36 | 0.61 | -0.31 | 0.03 |
| T10°C Vnom | 0.95 | 1.03 | 0.91 | 0.69 |
| T0°C Vnom | 0.11 | -0.21 | 0.60 | -0.18 |
| T-10°C Vnom | 0.39 | 0.58 | 0.46 | 0.39 |
| T-20°C Vnom | 0.04 | -0.28 | 0.31 | -0.12 |
| T-30°C Vnom | 0.68 | 0.88 | 0.71 | 0.73 |
| Vnom [Vac]: 120 | | Vmax [Vac]: 138 | | Vmin [Vac]: 102 |
| Tnom [°C]: 20 | | Tmax [°C]: 50 | | 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 (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

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

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

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

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

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