

CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2

TEST REPORT

For

Outdoor Smart Plug

MODEL NUMBER: CPLGOD2BLG1

FCC ID: PUU-CPLGOD2BLG1 IC: 10798A-CPLGOD2BLG1

REPORT NUMBER: 4789516666-2

ISSUE DATE: June 22, 2020

Prepared for

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Consumer Lighting Canada Company, dba GE Lighting, a Savant Company(ISED)
1975 Noble Road Cleveland OH 44112 United States Of America

Prepared by

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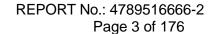
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REPORT No.: 4789516666-2

Page 2 of 176

| Rev. | Issue Date | Revisions | Revised By |
|------|------------|---------------|------------|
| V0 | 06/22/2020 | Initial Issue | |





| Summary of Test Results | | | | | |
|-------------------------|---|---|--------------|--|--|
| Clause | Test Items | FCC/ISED Rules | Test Results | | |
| 1 | 6dB Bandwidth and 99% Occupied Bandwidth | FCC Part 15.247 (a) (2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7 | Pass | | |
| 2 | Peak Conducted Output Power | FCC Part 15.247 (b) (3) RSS-247 Clause 5.4 (d) | Pass | | |
| 3 | Power Spectral Density | FCC Part 15.247 (e) RSS-247 Clause 5.2 (b) | Pass | | |
| 4 | Conducted Bandedge and Spurious Emission | FCC Part 15.247 (d) RSS-247 Clause 5.5 | Pass | | |
| 5 | Radiated Bandedge and Spurious Emission | FCC Part 15.247 (d) FCC Part 15.209 FCC Part 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9 | Pass | | |
| 6 | Conducted Emission Test For AC Power Port | FCC Part 15.207 RSS-GEN Clause 8.8 | Pass | | |
| 7 | Antenna Requirement | FCC Part 15.203 RSS-GEN Clause 6.8 | Pass | | |

Note:

^{1.} This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

^{2.} The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C >< ISED RSS-247 > when <Accuracy Method> decision rule is applied.



TABLE OF CONTENTS

| 1. | AT | TESTATION OF TEST RESULTS | 6 |
|----|-----------------|---|----|
| 2. | TES | ST METHODOLOGY | 8 |
| 3. | FA | CILITIES AND ACCREDITATION | 8 |
| 4. | CA | LIBRATION AND UNCERTAINTY | 9 |
| | 4.1. | MEASURING INSTRUMENT CALIBRATION | 9 |
| | 4.2. | MEASUREMENT UNCERTAINTY | 9 |
| 5. | EQ | UIPMENT UNDER TEST | 10 |
| , | 5.1. | DESCRIPTION OF EUT | 10 |
| | 5.2. | MAXIMUM OUTPUT POWER | 10 |
| | 5.3. | CHANNEL LIST | 10 |
| | 5.4. | TEST CHANNEL CONFIGURATION | 11 |
| , | 5.5. | THE WORSE CASE POWER SETTING PARAMETER | 11 |
| , | 5.6. | THE WORSE CASE CONFIGURATIONS | 11 |
| , | 5.7. | DESCRIPTION OF AVAILABLE ANTENNAS | 12 |
| | 5.8. | TEST ENVIRONMENT | 12 |
| | 5.9. | DESCRIPTION OF TEST SETUP | 13 |
| 6. | ME | ASURING INSTRUMENT AND SOFTWARE USED | 14 |
| 7. | AN ⁻ | TENNA PORT TEST RESULTS | 15 |
| | 7.1. | ON TIME AND DUTY CYCLE | 15 |
| | 7.2. | 6 dB DTS BANDWIDTH AND 99% OCCUPIED BANDWIDTH | 16 |
| | 7.3. | CONDUCTED OUTPUT POWER | |
| | 7.4. | POWER SPECTRAL DENSITY | 20 |
| | 7.5. | CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS | 22 |
| 8. | RA | DIATED TEST RESULTS | 24 |
| | | RESTRICTED BANDEDGE | |
| | 8.1. | 1. 802.11b MODE | 30 |
| | | 2. 802.11g MODE | |
| | 8.1. | 3. 802.11n HT20 MODE 4. 802.11n HT40 MODE | |
| i | 8.2. | SPURIOUS EMISSIONS (3~18GHz) | 61 |
| | 8.2. | 1. 802.11b MODE | 61 |
| | 8.2. 8.2 | 2. 802.11g MODE | |
| | | 4. 802.11n HT40 MODE | |
| | | | |



| 8.3. SPURIOUS EMISSIONS (1~3GHz) 8.3.1. 802.11b MODE | |
|---|-----|
| 8.3.2. 802.11g MODE | |
| 8.3.3. 802.11n HT20 MODE | |
| 8.3.4. 802.11n HT40 MODE | 103 |
| 8.4. WORST-CASE CO-LOCATION | |
| 8.4.1. BLE MODE AND 802.11n HT20 MODE | 109 |
| 8.5. SPURIOUS EMISSIONS (18~26GHz) | 117 |
| 8.5.1. 802.11b MODE | 117 |
| 8.6. SPURIOUS EMISSIONS (0.03 ~ 1 GHz) | 119 |
| 8.6.1. 802.11b MODE | 119 |
| 8.7. SPURIOUS EMISSIONS BELOW 30M | 121 |
| 8.7.1. 802.11b MODE | 121 |
| 9. AC POWER LINE CONDUCTED EMISSIONS | 124 |
| 9.1. 802.11b MODE | |
| 9.1. 802.11b MODE | 125 |
| 10. ANTENNA REQUIREMENTS | 127 |
| 10.1. Appendix A: DTS Bandwidth | |
| 10.1.1. Test Result | |
| 10.1.2. Test Graphs | |
| 10.2. Appendix B: Occupied Channel Bandwidth | |
| 10.2.1. Test Result | |
| 10.2.2. Test Graphs | 136 |
| 10.3. Appendix C: Maximum AVG conducted output pow | |
| 10.3.1. Test Result | 142 |
| 10.4. Appendix D: Maximum power spectral density | 143 |
| 10.4.1. Test Result | |
| 10.4.2. Test Graphs | 144 |
| 10.5. Appendix E: Band edge measurements | |
| 10.5.1. Test Result | |
| 10.5.2. Test Graphs | 151 |
| 10.6. Appendix F: Conducted Spurious Emission | |
| 10.6.1. Test Result | |
| 10.6.2. Test Graphs | |
| 10.7. Appendix G: Duty Cycle | |
| 10.7.1. Test Result | |
| 10.7.2. Test Graphs | 175 |



REPORT No.: 4789516666-2

Page 6 of 176

1. ATTESTATION OF TEST RESULTS

FCC

Applicant Information

Company Name: Consumer Lighting (U.S.) LLC dba GE Lighting, a Savant Company

Address: 1975 Noble Road Cleveland, Ohio 44112 United States

FCC

Manufacturer Information

Company Name: Consumer Lighting (U.S.) LLC dba GE Lighting, a Savant Company

Address: 1975 Noble Road Cleveland, Ohio 44112 United States

ISED

Applicant Information

Company Name: Consumer Lighting Canada Company, dba GE Lighting, a Savant

Company

Address: 1975 Noble Road Cleveland OH 44112 United States Of America

ISED

Manufacturer Information

Company Name: Consumer Lighting Canada Company, dba GE Lighting, a Savant

Company

Address: 1975 Noble Road Cleveland OH 44112 United States Of America

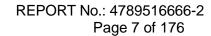
EUT Information

EUT Name: Outdoor Smart Plug Model: CPLGOD2BLG1

Sample Status: Normal Sample ID: 3102161

Sample Received Date: June 11, 2020
Date of Tested: June 12~19, 2020

| APPLICABLE STANDARDS | | | | |
|------------------------------|------|--|--|--|
| STANDARD TEST RESULTS | | | | |
| CFR 47 FCC PART 15 SUBPART C | PASS | | | |
| ISED RSS-247 Issue 2 | PASS | | | |
| ISED RSS-GEN Issue 5 | PASS | | | |





| Prepared By: | Checked By: | |
|-----------------------------------|--------------------------------|--|
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| LaphenGus | | |
| Stephen Guo Laboratory Manager | | |



REPORT No.: 4789516666-2 Page 8 of 176

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15, ANSI C63.10-2013, ISED RSS-247 Issue 2 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

| | A2LA (Certificate No.: 4102.01) |
|---------------|--|
| | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. |
| | has been assessed and proved to be in compliance with A2LA. |
| | FCC (FCC Designation No.: CN1187) |
| | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. |
| | Has been recognized to perform compliance testing on equipment subject |
| | to the Commission's Delcaration of Conformity (DoC) and Certification |
| | rules |
| A 114 41 | ISED(Company No.: 21320) |
| Accreditation | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. |
| Certificate | has been registered and fully described in a report filed with ISED. |
| | The Company Number is 21320. |
| | VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) |
| | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. |
| | has been assessed and proved to be in compliance with VCCI, the |
| | Membership No. is 3793. |
| | Facility Name: |
| | 1 |
| | |
| | Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011 |

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test Item | Uncertainty | | |
|--|----------------------|--|--|
| Conduction emission | 3.62dB | | |
| Radiation Emission test(include Fundamental emission) (9KHz-30MHz) | 2.2dB | | |
| Radiation Emission test(include Fundamental emission) (30MHz-1GHz) | 4.00dB | | |
| Radiation Emission test (1GHz to 26GHz)(include Fundamental emission) | 5.78dB (1GHz-18GHz) | | |
| (16112 to 200112)(include 1 undamental critission) | 5.23dB (18GHz-26GHz) | | |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

| Equipment | Outdoor Smart Plug |
|---------------------|--|
| Model Name | CPLGOD2BLG1 |
| Radio Technology | IEEE802.11b/g/n HT20/n HT40 |
| Operation frequency | IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz |
| Modulation | IEEE 802.11b: DSSS(CCK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) |
| Rated Input | AC120V,60Hz |

5.2. MAXIMUM OUTPUT POWER

| Number of Transmit Chains (NTX) | IEE Std. 802.11 | Frequency (MHz) | Channel Number | Max AV Conducted Power (dBm) | |
|---------------------------------------|------------------|--------------------|----------------|------------------------------------|--|
| 1 | IEEE 802.11b | 2412-2462 | 1-11[11] | 16.89 | |
| 1 | IEEE 802.11g | 2412-2462 | 1-11[11] | 15.37 | |
| 1 | IEEE 802.11nHT20 | 2412-2462 | 1-11[11] | 14.39 | |
| 1 | IEEE 802.11nHT40 | 2422-2452 | 3-9[7] | 14.47 | |

5.3. CHANNEL LIST

| | Channel List for 802.11b/g/n (20 MHz) | | | | | | | |
|---------|---------------------------------------|---------|--------------------|---------|--------------------|---------|--------------------|--|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | |
| 1 | 2412 | 4 | 2427 | 7 | 2442 | 10 | 2457 | |
| 2 | 2417 | 5 | 2432 | 8 | 2447 | 11 | 2462 | |
| 3 | 2422 | 6 | 2437 | 9 | 2452 | / | / | |

| Channel List for 802.11n (40 MHz) | | | | | | | | | |
|-----------------------------------|--------------------|---------|--------------------|---------|--------------------|---------|-----------------|--|--|
| Channel | Frequency (MHz) | Channel | Frequenc y(MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | | |
| 3 | 2422 | 5 | 2432 | 7 | 2442 | 9 | 2452 | | |
| 4 | 2427 | 6 | 2437 | 8 | 2447 | / | / | | |



5.4. TEST CHANNEL CONFIGURATION

| Test Mode Test Channel | | Frequency | |
|---|---|---------------------------|--|
| WiFi TX(802.11b) CH 1, CH 6, CH 11/ Low, Middle, High | | 2412MHz, 2437MHz, 2462MHz | |
| WiFi TX(802.11g) | CH 1, CH 6, CH 11/ Low, Middle, High | 2412MHz, 2437MHz, 2462MHz | |
| WiFi TX(802.11n HT20) CH 1, CH 6, CH 11/ Low, Middle, High | | 2412MHz, 2437MHz, 2462MHz | |
| WiFi TX(802.11n HT40) | CH 3, CH 6, CH 9/ Low, Middle, High | 2422MHz, 2437MHz, 2452MHz | |

5.5. THE WORSE CASE POWER SETTING PARAMETER

| The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band | | | | | | | | |
|--|----------|-----------------------------|------------|-------|--------|------------|------|--|
| Test Software UI _r | | | | | mptool | | | |
| | Transmit | Test Software setting value | | | | | | |
| Modulation Mode | Antenna | | NCB: 20MHz | | | NCB: 40MHz | | |
| Mode | Number | CH 1 | CH 6 | CH 11 | CH 3 | CH 6 | CH 9 | |
| 802.11b | 1 | 37 | 36 | 36 | | | | |
| 802.11g | 1 | 41 40 40 | | | / | | | |
| 802.11n HT20 | 1 | 39 | 39 | 39 | | | | |
| 802.11n HT40 | 1 | / | | | 39 | 39 | 39 | |

5.6. THE WORSE CASE CONFIGURATIONS

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps 802.11b mode: 6 Mbps 802.11n HT20 mode: MCS0 802.11n HT40 mode: MCS0



5.7. DESCRIPTION OF AVAILABLE ANTENNAS

| Antenna Frequency (MHz) | | Antenna Type | MAX Antenna Gain (dBi) | |
|-------------------------|--|------------------|------------------------|--|
| 1 2412-2462 | | integral antenna | 1.65 | |

| Test Mode | Transmit and Receive Mode | Description |
|-------------------|---------------------------|--|
| IEEE 802.11b | ⊠1TX, 1RX | Antenna 1 can be used as transmitting/receiving antenna. |
| IEEE 802.11g | ⊠1TX, 1RX | Antenna 1 can be used as transmitting/receiving antenna. |
| IEEE 802.11n HT20 | ⊠1TX, 1RX | Antenna 1 can be used as transmitting/receiving antenna. |
| IEEE 802.11n HT40 | ⊠1TX, 1RX | Antenna 1 can be used as transmitting/receiving antenna. |

Note: The value of the antenna gain was declared by customer.

5.8. TEST ENVIRONMENT

| Environment Parameter | Selected Values During Tests | | | | |
|-----------------------|------------------------------|-------------|--|--|--|
| Relative Humidity | 45 ~ 70% | | | | |
| Atmospheric Pressure: | 1025Pa | | | | |
| Temperature | TN | 22 ~ 28°C | | | |
| | VL | N/A | | | |
| Voltage : | VN | AC120V,60Hz | | | |
| | VH | N/A | | | |

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature





5.9. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| Item | Equipment | Brand Name | Model Name | Remarks |
|------|-------------|------------|------------|---------|
| 1 | Laptop | ThinkPad | X230i | / |
| 2 | USB TO UART | / | / | / |

I/O CABLES

| Cable No | Port | Connector Type | Cable Type | Cable Length(m) | Remarks |
|-------------|------|----------------|------------|-----------------|---------|
| 1 | USB | / | / | 1.0 | / |

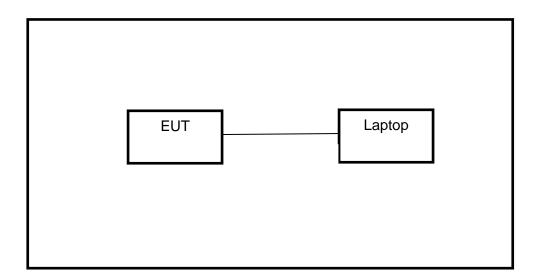
ACCESSORIES

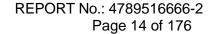
| Item | Accessory | Brand Name | Model Name | Description |
|------|-----------|------------|------------|-------------|
| 1 | / | / | 1 | / |

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS







6. MEASURING INSTRUMENT AND SOFTWARE USED

| | Conducted Emissions | | | | | | | | | |
|--------------|--|---------------|----------------|---------------|--------------------|-------|-------------|--------------|-------------|-------------|
| Instrument | | | | | | | | | | |
| Used | Equipment | Manufacturer | Model No. | | | Seria | ıl No. | Last Cal. | Next Cal. | |
| | EMI Test Receiver | R&S | | ES | R3 | | 101 | 961 | Dec.05,2019 | Dec.05,2020 |
| \checkmark | Two-Line V- Network | R&S | | EN\ | /216 | | 101 | 983 | Dec.05,2019 | Dec.05,2020 |
| V | Artificial Mains Networks | Schwarzbeck | | NSLK | (8126 | | 8126 | 6465 | Dec.05,2019 | Dec.05,2020 |
| | Software | | | | | | | | | |
| Used | | Description |) | | | | Manufa | acture | Name | Version |
| \square | Test Softwa | re for Conduc | ted dis | turba | nce | | Fai | rad | EZ-EMC | Ver. UL-3A1 |
| | Radiated Emissions | | | | | | | | | |
| | | | | Insti | rument | | | | | |
| Used | Equipment | Manufacturer | | Mode | el No. | | Seria | l No. | Last Cal. | Next Cal. |
| \square | MXE EMI Receiver | KESIGHT | | N9038A | | | MY56400036 | | Dec.06,2019 | Dec.05,2020 |
| \checkmark | Hybrid Log Periodic Antenna | TDK | | HLP-3003C | | | 130960 | | Sep.17,2018 | Sep.17,2021 |
| | Preamplifier | HP | | 8447D | | | 2944A09099 | | Dec.05,2019 | Dec.05,2020 |
| \checkmark | EMI Measurement Receiver | R&S | | ES | R26 | | 101 | 377 | Dec.05,2019 | Dec.05,2020 |
| \square | Horn Antenna | TDK | | HRN | -0118 | | 130939 | | Sep.17,2018 | Sep.17,2021 |
| | High Gain Horn Antenna | Schwarzbeck | | BBHA | A-9170 | | 69 | | Aug.11,2018 | Aug.11,2021 |
| \square | Preamplifier | TDK | | PA-02 | 2-0118 | | TRS- 000 |)67 | Dec.05,2019 | Dec.05,2020 |
| \square | Preamplifier | TDK | | PA- | 02-2 | | TRS- | -307-)03 | Dec.05,2019 | Dec.05,2020 |
| \square | Loop antenna | Schwarzbeck | | | 19B | | 000 | 800 | Jan.07,2019 | Jan.07,2022 |
| | Band Reject Filter | Wainwright | 2483 | 3.5-25 | 2350-24 33.5-40 | SS | 4 | 1 | Dec.05,2019 | Dec.05,2020 |
| \square | High Pass Filter | Wi | | | 2700-30)-40SS | 000- | 2 | 3 | Dec.05,2019 | Dec.05,2020 |
| | | | | Sof | ftware | | | | | |
| Used | De | scription | otion Manufact | | | turer | | Name | Version | |
| \square | Test Software for Radiated disturbance Farac | | | | d | | EZ-EMC | Ver. UL-3A1 | | |
| | | | Otl | ner in | strume | nts | | | | |
| Used | l Equipment | Manufac | turer | turer Model N | | S | erial No. | | Last Cal. | Next Cal. |
| \checkmark | Spectrum Analyz | , , | ght | N9 | 030A | MY | 554105 | 512 C | ec.06,2019 | Dec.05,2020 |
| V | Power sensor, Po | wer R&S | 3 | os | P120 | | 100921 | 1 | Dec.06,2019 | Dec.06,2020 |



7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

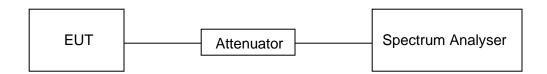
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

| Temperature | 25.5°C | Relative Humidity | 62% |
|---------------------|--------|-------------------|---------------|
| Atmosphere Pressure | 101kPa | Test Voltage | AC 120V, 60Hz |

RESULTS

Please refer to appendix G.



7.2. 6 dB DTS BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2 | | | | | | | |
|--|---------------------------|------------------------------|-------------|--|--|--|--|
| Section Test Item Limit Frequency Range (MHz) | | | | | | | |
| CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a) | 6 dB Bandwidth | ≥ 500KHz | 2400-2483.5 | | | | |
| ISED RSS-Gen Clause 6.7 | 99% Occupied Bandwidth | For reporting purposes only. | 2400-2483.5 | | | | |

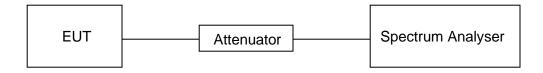
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

| Center Frequency | The centre frequency of the channel under test |
|------------------|--|
| Detector | Peak |
| RBW | For 6dB Bandwidth :100kHz For 99% Occupied Bandwidth :1% to 5% of the occupied bandwidth |
| VBW | For 6dB Bandwidth : ≥3 × RBW For 99% Occupied Bandwidth : ≥3×RBW |
| Trace | Max hold |
| Sweep | Auto couple |

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB and 99% relative to the maximum level measured in the fundamental emission.

TEST SETUP





REPORT No.: 4789516666-2

Page 17 of 176

TEST ENVIRONMENT

| Temperature | 25.5°C | Relative Humidity | 62% |
|---------------------|--------|-------------------|---------------|
| Atmosphere Pressure | 101kPa | Test Voltage | AC 120V, 60Hz |

RESULTS

Please refer to appendix A and B.



7.3. CONDUCTED OUTPUT POWER

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2 | | | | |
|--|-------------------|-----------------|-------------|--|
| Section Test Item Limit Frequency Range (MHz) | | | | |
| CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d) | Peak Output Power | 1 watt or 30dBm | 2400-2483.5 | |

TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.

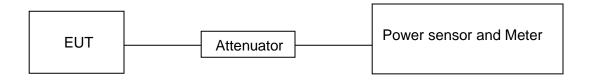
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.

Measure peak power each channel.

Peak Detector use for Peak result.

AVG Detector use for AVG result.

TEST SETUP



TEST ENVIRONMENT

| Temperature | 25.5°C | Relative Humidity | 62% |
|---------------------|--------|-------------------|---------------|
| Atmosphere Pressure | 101kPa | Test Voltage | AC 120V, 60Hz |



REPORT No.: 4789516666-2 Page 19 of 176

RESULTS

Please refer to appendix C.



7.4. POWER SPECTRAL DENSITY

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2 | | | | |
|--|------------------------|-------------|-------------|--|
| Section Test Item Limit Frequency Rang (MHz) | | | | |
| CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b) | Power Spectral Density | 8 dBm/3 kHz | 2400-2483.5 | |

TEST PROCEDURE

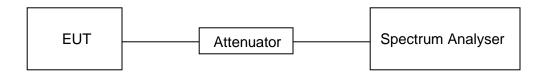
Connect the UUT to the spectrum analyser and use the following settings:

| Center Frequency | The centre frequency of the channel under test |
|------------------|--|
| Detector | Peak |
| RBW | 3 kHz ≤ RBW ≤100 kHz |
| VBW | ≥3 × RBW |
| Span | 1.5 x DTS bandwidth |
| Trace | Max hold |
| Sweep time | Auto couple. |

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

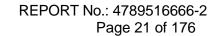
TEST SETUP



TEST ENVIRONMENT

| Temperature | 25.5°C | Relative Humidity | 62% |
|---------------------|--------|-------------------|---------------|
| Atmosphere Pressure | 101kPa | Test Voltage | AC 120V, 60Hz |

RESULTS





Please refer to appendix C.



7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2 | | | |
|--|--|---|--|
| Section Test Item Limit | | | |
| CFR 47 FCC §15.247 (d) Sandedge and Spurious Emissions | | at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power | |

TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

| Center Frequency | The centre frequency of the channel under test |
|------------------|--|
| Detector | Peak |
| RBW | 100kHz |
| VBW | ≥3 × RBW |
| Span | 1.5 x DTS bandwidth |
| Trace | Max hold |
| Sweep time | Auto couple. |

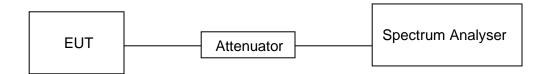
Use the peak marker function to determine the maximum PSD level.

| Span | Set the center frequency and span to encompass frequency range to be measured |
|--------------------|---|
| Detector | Peak |
| RBW | 100kHz |
| VBW | ≥3 × RBW |
| measurement points | ≥span/RBW |
| Trace | Max hold |
| Sweep time | Auto couple. |

Use the peak marker function to determine the maximum amplitude level.



TEST SETUP



TEST ENVIRONMENT

| Temperature | 25.5°C | Relative Humidity | 62% |
|---------------------|--------|-------------------|---------------|
| Atmosphere Pressure | 101kPa | Test Voltage | AC 120V, 60Hz |

RESULTS

Please refer to appendix E and F.



8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209

Please refer to ISED RSS-GEN Clause 8.9 (Transmitter)

Radiation Disturbance Test Limit for FCC (Class B)(9kHz-1GHz)

| Emissions radiated outside of the specified frequency bands above 30MHz | | | | |
|---|---------------------------------------|--------------------------------------|---------|--|
| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m | | |
| (1711 12) | | Quasi-Peak | | |
| 30 - 88 | 100 | 40 | | |
| 88 - 216 | 150 | 43.5 | | |
| 216 - 960 | 200 | 46 | | |
| Above 960 | 500 | 54 | | |
| Above 1000 | 500 | Peak | Average | |
| Above 1000 | 500 | 74 | 54 | |

| FCC Emissions radiated outside of the specified frequency bands below 30MHz | | | | | | | | |
|---|-------------|-----|--|--|--|--|--|--|
| Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters) | | | | | | | | |
| 0.009-0.490 | 2400/F(kHz) | 300 | | | | | | |
| 0.490-1.705 24000/F(kHz) 30 | | | | | | | | |
| 1.705-30.0 | | | | | | | | |

ISED General field strength limits at frequencies below 30 MHz

| Table 6 – General field strength limits at frequencies below 30 MHz | | | | | | |
|---|--|--------------------------|--|--|--|--|
| Frequency | Magnetic field strength (H-Field) (μA/m) | Measurement distance (m) | | | | |
| 9 - 490 kHz ^{Note 1} | 6.37/F (F in kHz) | 300 | | | | |
| 490 - 1705 kHz | 63.7/F (F in kHz) | 30 | | | | |
| 1.705 - 30 MHz | 0.08 | 30 | | | | |

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

| MHz | MHz | GHz |
|---------------------|-----------------------|---------------|
| 0.090 - 0.110 | 149.9 - 150.05 | 9.0 - 9.2 |
| 0.495 - 0.505 | 158.52475 - 158.52525 | 9.3 - 9.5 |
| 2.1735 - 2.1905 | 158.7 - 156.9 | 10.6 - 12.7 |
| 3.020 - 3.026 | 162.0125 - 167.17 | 13.25 - 13.4 |
| 4.125 - 4.128 | 167.72 - 173.2 | 14.47 - 14.5 |
| 4.17725 - 4.17775 | 240 – 285 | 15.35 - 16.2 |
| 4.20725 - 4.20775 | 322 - 335.4 | 17.7 - 21.4 |
| 5.677 - 5.683 | 399.9 - 410 | 22.01 - 23.12 |
| 8.215 - 6.218 | 608 - 614 | 23.6 - 24.0 |
| 8.26775 - 6.26825 | 960 - 1427 | 31.2 - 31.8 |
| 8.31175 - 8.31225 | 1435 - 1626.5 | 36.43 - 36.5 |
| 8.291 - 8.294 | 1645.5 - 1646.5 | Above 38.6 |
| 8.362 - 8.366 | 1680 - 1710 | |
| 8.37625 - 8.38675 | 1718.8 - 1722.2 | |
| 8.41425 - 8.41475 | 2200 - 2300 | |
| 12.29 - 12.293 | 2310 - 2390 | |
| 12.51975 - 12.52025 | 2483.5 - 2500 | |
| 12.57675 - 12.57725 | 2655 - 2900 | |
| 13.36 - 13.41 | 3260 - 3267 | |
| 16.42 - 16.423 | 3332 - 3339 | |
| 16.69475 - 16.69525 | 3345.8 - 3358 | |
| 16.80425 - 16.80475 | 3500 - 4400 | |
| 25.5 - 25.67 | 4500 - 5150 | |
| 37.5 - 38.25 | 5350 - 5460 | |
| 73 - 74.6 | 7250 - 7750 | |
| 74.8 - 75.2 | 8025 - 8500 | |
| 108 – 138 | | |

FCC Restricted bands of operation refer to FCC §15.205 (a):

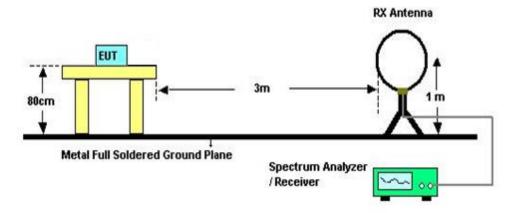
| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |

Note: 1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. 2 Above 38.6c



TEST SETUP AND PROCEDURE

Below 30MHz



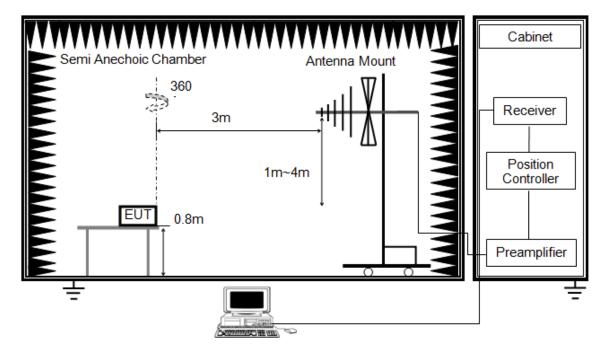
The setting of the spectrum analyser

| RBW | 200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz) |
|----------|--|
| VBW | 200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz) |
| Sweep | Auto |
| Detector | Peak/QP/ Average |
| Trace | Max hold |

- 1. The testing follows the guidelines in ANSI C63.10-2013
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.
- 5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.



Below 1G



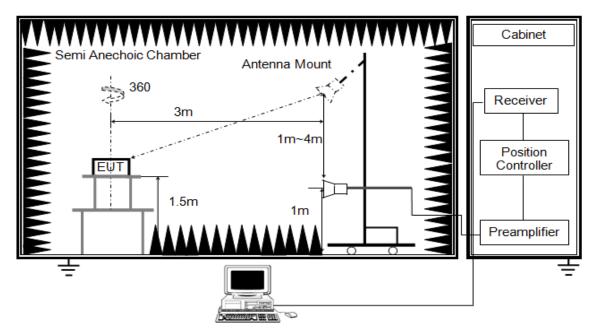
The setting of the spectrum analyser

| RBW | 120kHz |
|----------|----------|
| VBW | 300kHz |
| Sweep | Auto |
| Detector | Peak/QP |
| Trace | Max hold |

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



ABOVE 1G



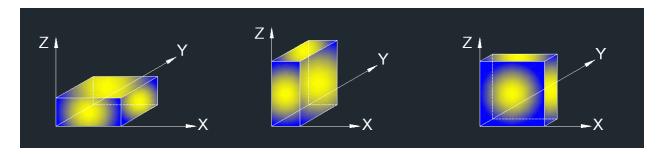
The setting of the spectrum analyser

| RBW | 1MHz |
|----------|-------------------------------|
| IVBW | PEAK: 3MHz AVG: see note 6 |
| Sweep | Auto |
| Detector | Peak |
| Trace | Max hold |

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.



X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST ENVIRONMENT

| Temperature | 23.2°C | Relative Humidity | 58% |
|---------------------|--------|-------------------|---------------|
| Atmosphere Pressure | 101kPa | Test Voltage | AC 120V, 60Hz |

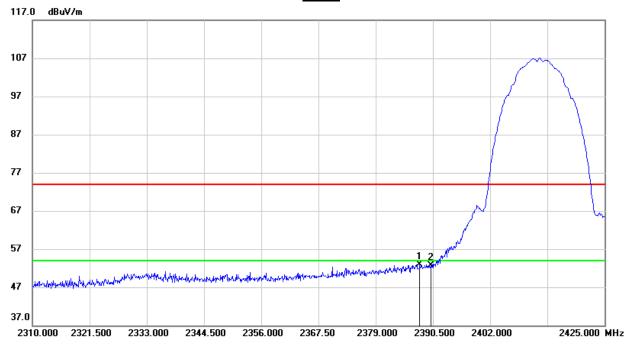


8.1. RESTRICTED BANDEDGE

8.1.1. 802.11b MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK



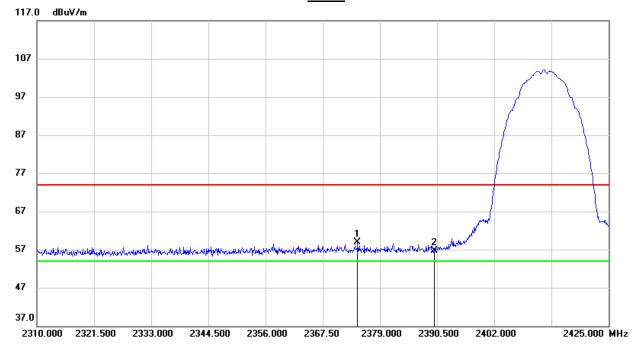
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2387.855 | 20.00 | 32.94 | 52.94 | 74.00 | -21.06 | peak |
| 2 | 2390.000 | 19.75 | 32.94 | 52.69 | 74.00 | -21.31 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2374.515 | 26.09 | 32.89 | 58.98 | 74.00 | -15.02 | peak |
| 2 | 2390.000 | 23.78 | 32.94 | 56.72 | 74.00 | -17.28 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







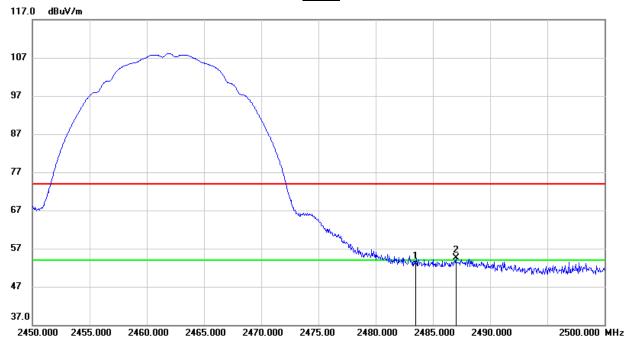
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2374.515 | 10.89 | 32.89 | 43.78 | 54.00 | -10.22 | AVG |
| 2 | 2390.000 | 11.04 | 32.94 | 43.98 | 54.00 | -10.02 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 19.41 | 33.58 | 52.99 | 74.00 | -21.01 | peak |
| 2 | 2487.000 | 20.88 | 33.61 | 54.49 | 74.00 | -19.51 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







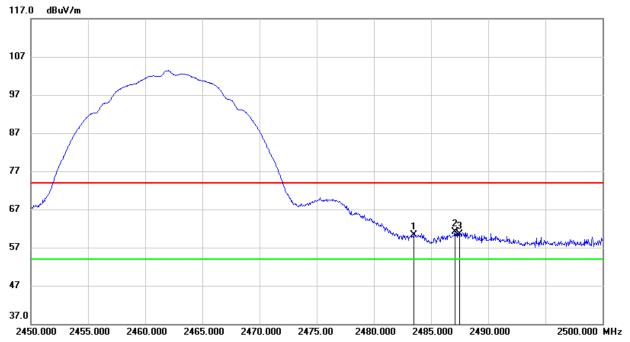
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 9.30 | 33.58 | 42.88 | 54.00 | -11.12 | AVG |
| 2 | 2487.000 | 9.25 | 33.61 | 42.86 | 54.00 | -11.14 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 26.64 | 33.58 | 60.22 | 74.00 | -13.78 | peak |
| 2 | 2487.100 | 27.54 | 33.61 | 61.15 | 74.00 | -12.85 | peak |
| 3 | 2487.500 | 26.83 | 33.61 | 60.44 | 74.00 | -13.56 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 13.61 | 33.58 | 47.19 | 54.00 | -6.81 | AVG |
| 2 | 2487.100 | 14.61 | 33.61 | 48.22 | 54.00 | -5.78 | AVG |
| 3 | 2487.500 | 14.75 | 33.61 | 48.36 | 54.00 | -5.64 | AVG |

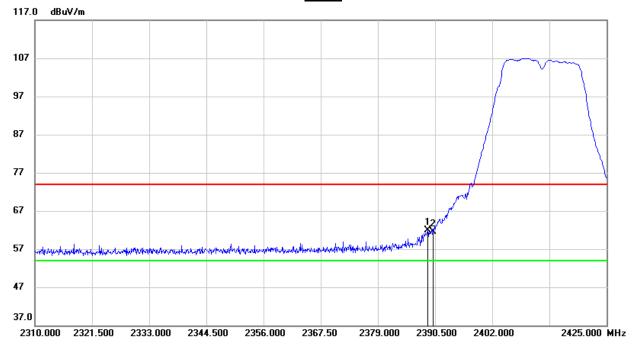
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



8.1.2. 802.11g MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

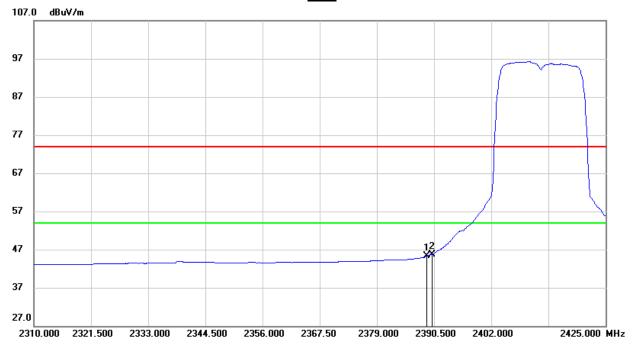


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2389.005 | 28.90 | 32.94 | 61.84 | 74.00 | -12.16 | peak |
| 2 | 2390.000 | 28.63 | 32.94 | 61.57 | 74.00 | -12.43 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







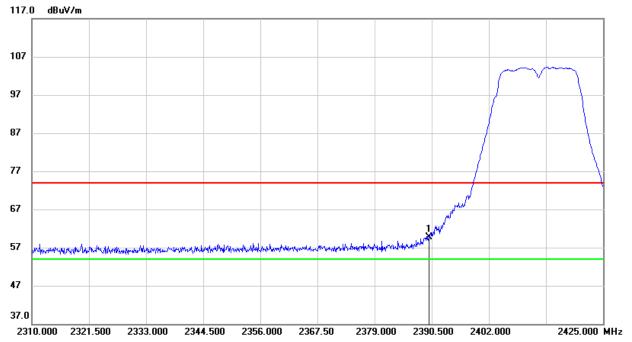
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2389.005 | 12.34 | 32.94 | 45.28 | 54.00 | -8.72 | AVG |
| 2 | 2390.000 | 12.85 | 32.94 | 45.79 | 54.00 | -8.21 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

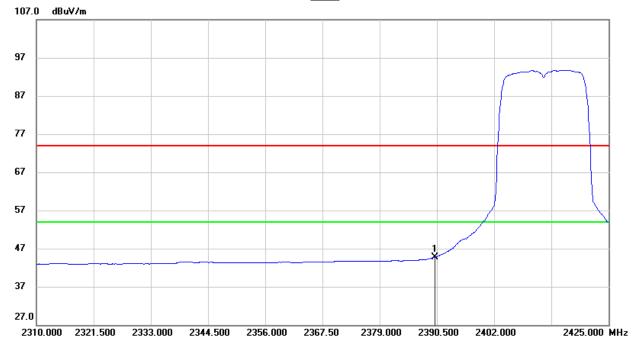


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2390.000 | 26.78 | 32.94 | 59.72 | 74.00 | -14.28 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







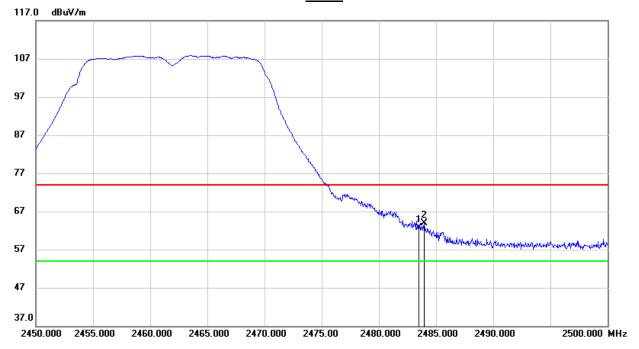
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2390.000 | 11.76 | 32.94 | 44.70 | 54.00 | -9.30 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

<u>PEAK</u>



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 29.17 | 33.58 | 62.75 | 74.00 | -11.25 | peak |
| 2 | 2483.950 | 30.40 | 33.58 | 63.98 | 74.00 | -10.02 | peak |

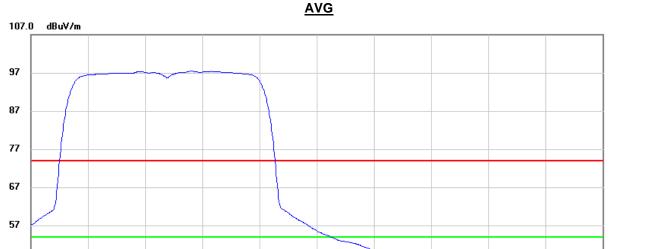
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



47

37

27.0 2450.000



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 13.72 | 33.58 | 47.30 | 54.00 | -6.70 | AVG |
| 2 | 2483.950 | 13.42 | 33.58 | 47.00 | 54.00 | -7.00 | AVG |

2475.00

2480.000

2485.000

2490.000

2500.000 MHz

Note: 1. Measurement = Reading Level + Correct Factor.

2465.000

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.

2460.000

2455.000

4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

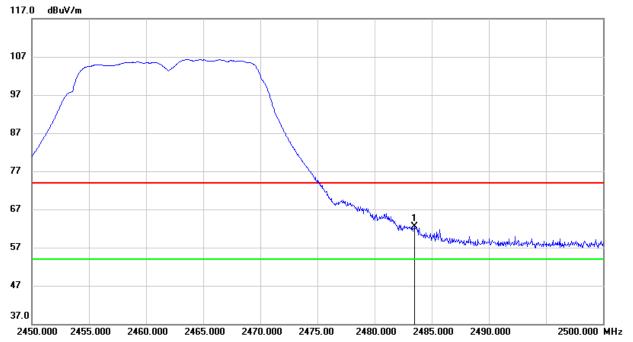
2470.000

- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

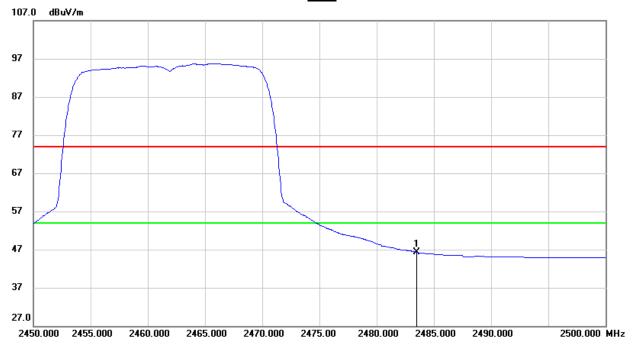


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 28.97 | 33.58 | 62.55 | 74.00 | -11.45 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 12.76 | 33.58 | 46.34 | 54.00 | -7.66 | AVG |

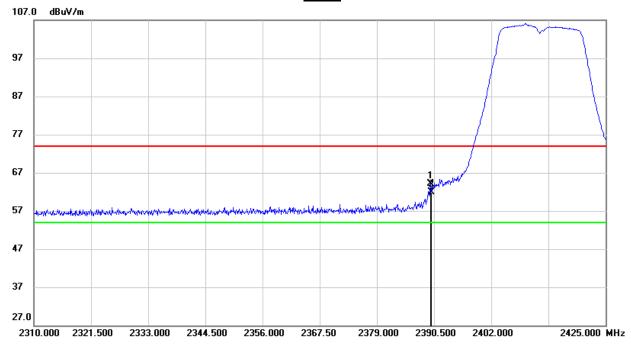
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



8.1.3. 802.11n HT20 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

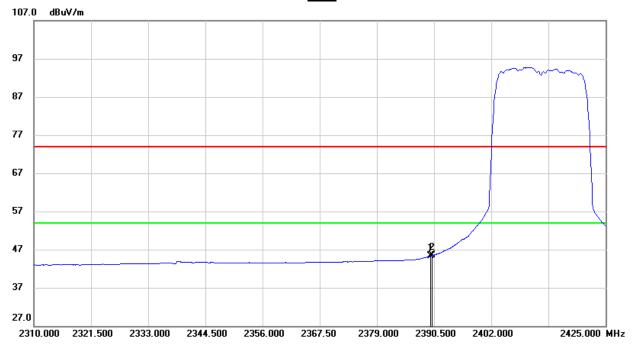


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2389.810 | 31.18 | 32.94 | 64.12 | 74.00 | -9.88 | peak |
| 2 | 2390.000 | 28.93 | 32.94 | 61.87 | 74.00 | -12.13 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







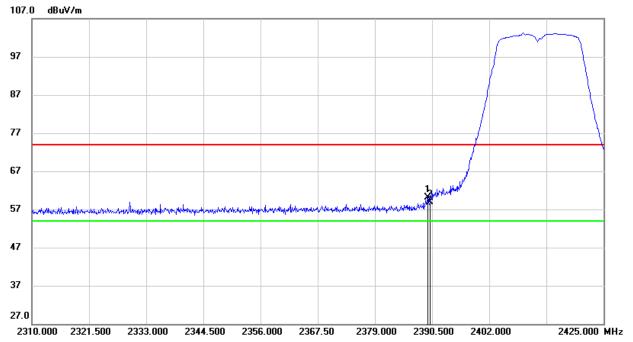
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2389.810 | 12.37 | 32.94 | 45.31 | 54.00 | -8.69 | AVG |
| 2 | 2390.000 | 12.49 | 32.94 | 45.43 | 54.00 | -8.57 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

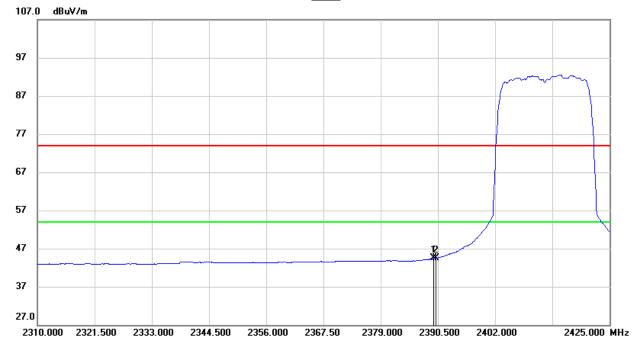


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2389.695 | 27.26 | 32.94 | 60.20 | 74.00 | -13.80 | peak |
| 2 | 2390.000 | 25.89 | 32.94 | 58.83 | 74.00 | -15.17 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







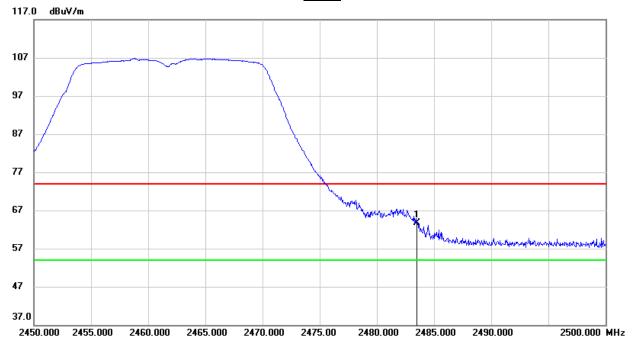
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2389.695 | 11.51 | 32.94 | 44.45 | 54.00 | -9.55 | AVG |
| 2 | 2390.000 | 11.62 | 32.94 | 44.56 | 54.00 | -9.44 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 30.07 | 33.58 | 63.65 | 74.00 | -10.35 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





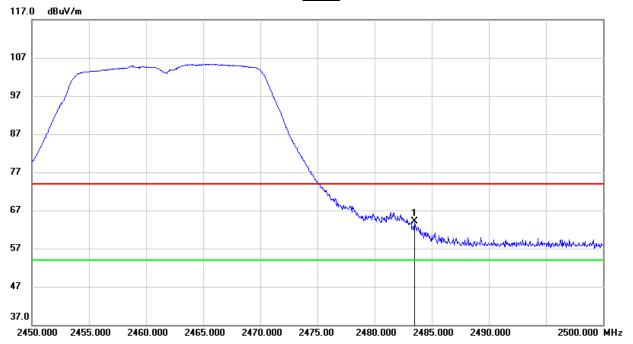
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 13.31 | 33.58 | 46.89 | 54.00 | -7.11 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 30.46 | 33.58 | 64.04 | 74.00 | -9.96 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 12.56 | 33.58 | 46.14 | 54.00 | -7.86 | AVG |

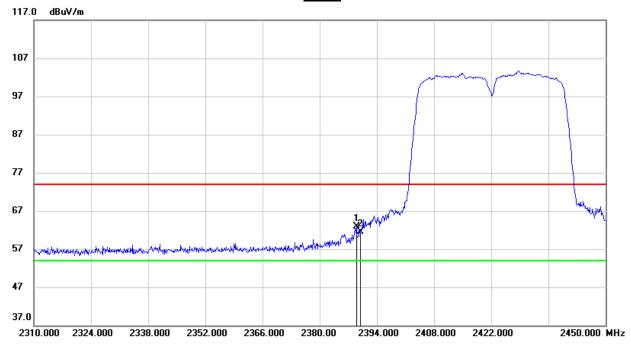
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



8.1.4. 802.11n HT40 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

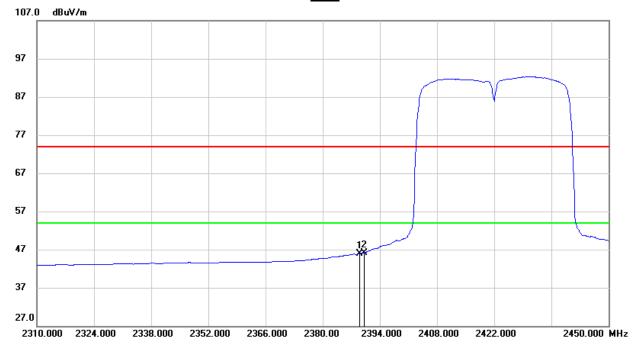


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2388.960 | 29.97 | 32.94 | 62.91 | 74.00 | -11.09 | peak |
| 2 | 2390.000 | 28.59 | 32.94 | 61.53 | 74.00 | -12.47 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







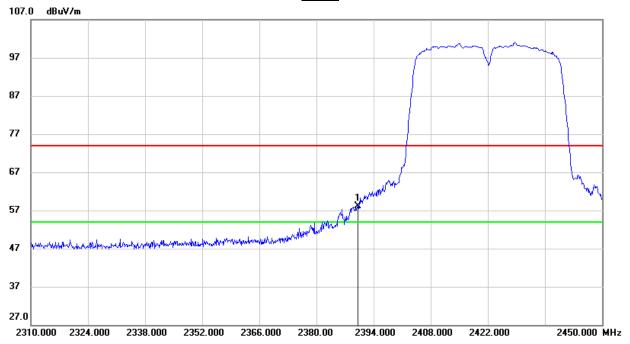
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2388.960 | 13.04 | 32.94 | 45.98 | 54.00 | -8.02 | AVG |
| 2 | 2390.000 | 13.24 | 32.94 | 46.18 | 54.00 | -7.82 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

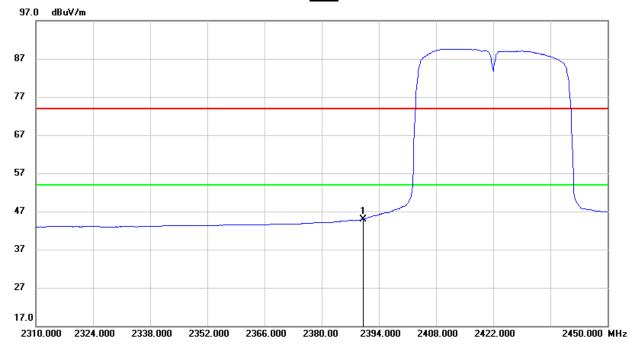


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2390.000 | 25.18 | 32.94 | 58.12 | 74.00 | -15.88 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







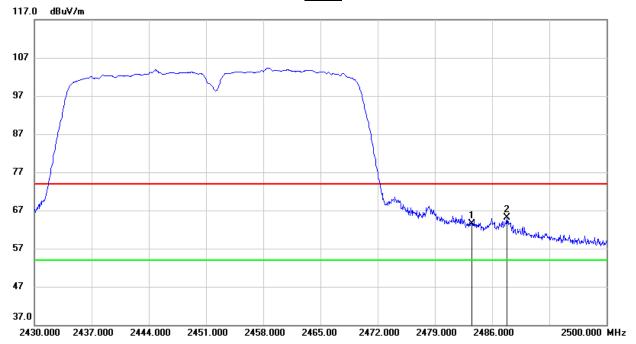
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2390.000 | 12.03 | 32.94 | 44.97 | 54.00 | -9.03 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK

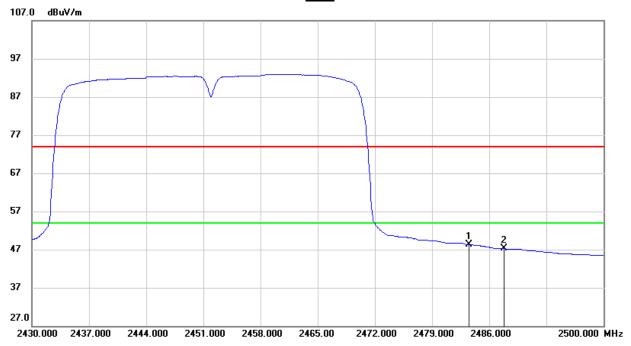


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 29.85 | 33.58 | 63.43 | 74.00 | -10.57 | peak |
| 2 | 2487.820 | 31.41 | 33.61 | 65.02 | 74.00 | -8.98 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







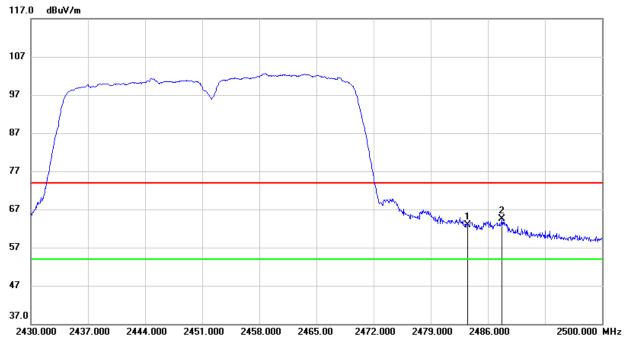
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 14.78 | 33.58 | 48.36 | 54.00 | -5.64 | AVG |
| 2 | 2487.820 | 13.64 | 33.61 | 47.25 | 54.00 | -6.75 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

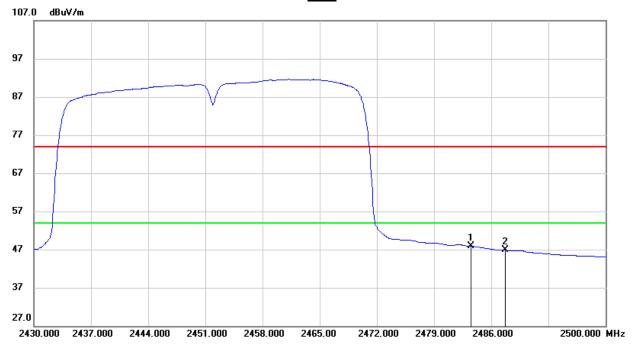


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 29.27 | 33.58 | 62.85 | 74.00 | -11.15 | peak |
| 2 | 2487.680 | 30.89 | 33.61 | 64.50 | 74.00 | -9.50 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2483.500 | 14.23 | 33.58 | 47.81 | 54.00 | -6.19 | AVG |
| 2 | 2487.680 | 13.23 | 33.61 | 46.84 | 54.00 | -7.16 | AVG |

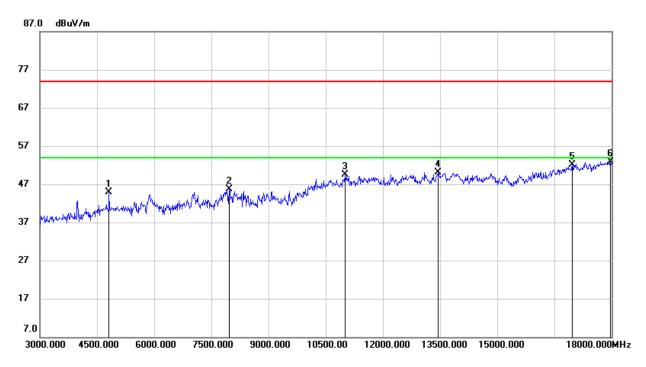
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



8.2. SPURIOUS EMISSIONS (3~18GHz)

8.2.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

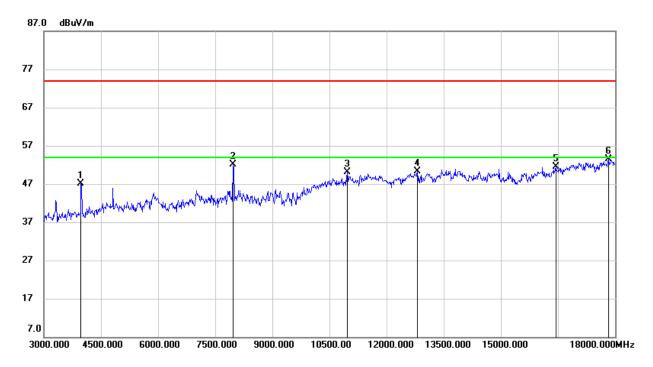


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 4815.000 | 44.39 | 0.51 | 44.90 | 74.00 | -29.10 | peak |
| 2 | 7965.000 | 38.77 | 7.00 | 45.77 | 74.00 | -28.23 | peak |
| 3 | 11010.000 | 36.84 | 12.63 | 49.47 | 74.00 | -24.53 | peak |
| 4 | 13455.000 | 34.16 | 15.93 | 50.09 | 74.00 | -23.91 | peak |
| 5 | 16965.000 | 31.81 | 20.25 | 52.06 | 74.00 | -21.94 | peak |
| 6 | 17970.000 | 29.51 | 23.42 | 52.93 | 74.00 | -21.07 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

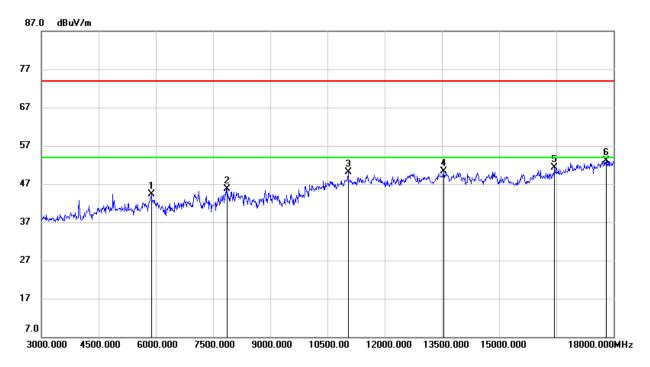


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3975.000 | 49.97 | -2.90 | 47.07 | 74.00 | -26.93 | peak |
| 2 | 7965.000 | 45.12 | 7.00 | 52.12 | 74.00 | -21.88 | peak |
| 3 | 10965.000 | 37.72 | 12.32 | 50.04 | 74.00 | -23.96 | peak |
| 4 | 12810.000 | 34.73 | 15.59 | 50.32 | 74.00 | -23.68 | peak |
| 5 | 16440.000 | 32.66 | 18.94 | 51.60 | 74.00 | -22.40 | peak |
| 6 | 17835.000 | 30.13 | 23.31 | 53.44 | 74.00 | -20.56 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

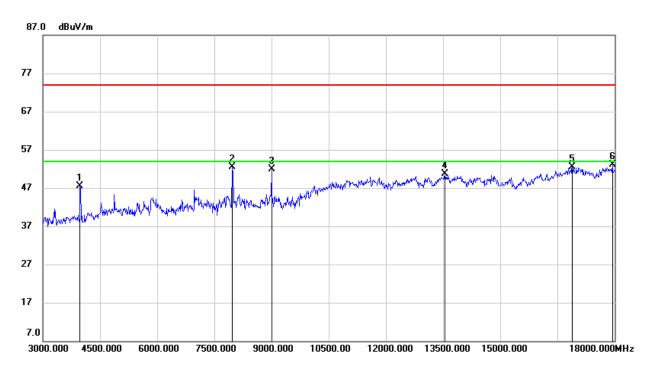


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 5880.000 | 39.77 | 4.59 | 44.36 | 74.00 | -29.64 | peak |
| 2 | 7875.000 | 38.30 | 7.40 | 45.70 | 74.00 | -28.30 | peak |
| 3 | 11040.000 | 37.47 | 12.61 | 50.08 | 74.00 | -23.92 | peak |
| 4 | 13545.000 | 34.39 | 15.89 | 50.28 | 74.00 | -23.72 | peak |
| 5 | 16455.000 | 32.36 | 19.00 | 51.36 | 74.00 | -22.64 | peak |
| 6 | 17805.000 | 29.87 | 23.31 | 53.18 | 74.00 | -20.82 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

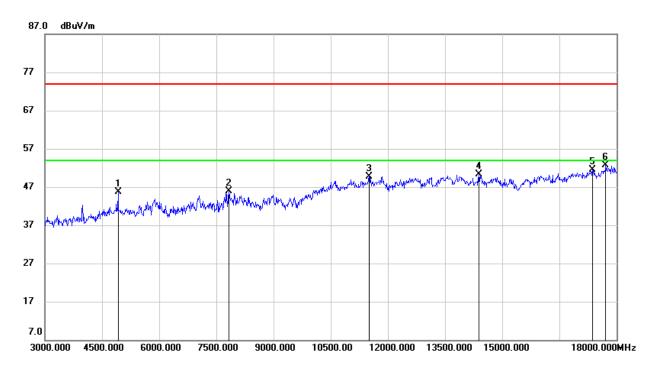


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3975.000 | 50.42 | -2.90 | 47.52 | 74.00 | -26.48 | peak |
| 2 | 7965.000 | 45.59 | 7.00 | 52.59 | 74.00 | -21.41 | peak |
| 3 | 9000.000 | 42.67 | 9.28 | 51.95 | 74.00 | -22.05 | peak |
| 4 | 13545.000 | 34.90 | 15.89 | 50.79 | 74.00 | -23.21 | peak |
| 5 | 16890.000 | 32.46 | 19.97 | 52.43 | 74.00 | -21.57 | peak |
| 6 | 17940.000 | 29.66 | 23.39 | 53.05 | 74.00 | -20.95 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

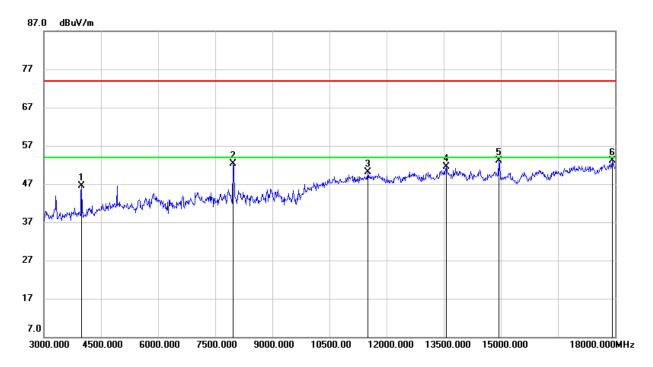


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 4920.000 | 44.71 | 0.96 | 45.67 | 74.00 | -28.33 | peak |
| 2 | 7830.000 | 38.10 | 7.72 | 45.82 | 74.00 | -28.18 | peak |
| 3 | 11505.000 | 36.38 | 13.42 | 49.80 | 74.00 | -24.20 | peak |
| 4 | 14385.000 | 33.98 | 16.33 | 50.31 | 74.00 | -23.69 | peak |
| 5 | 17370.000 | 30.04 | 21.52 | 51.56 | 74.00 | -22.44 | peak |
| 6 | 17715.000 | 30.12 | 22.56 | 52.68 | 74.00 | -21.32 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



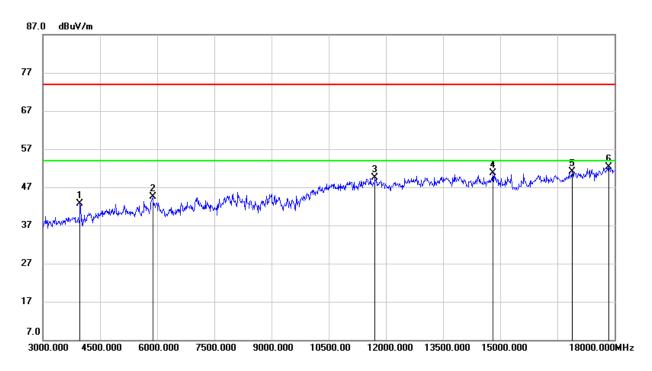
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 49.38 | -2.89 | 46.49 | 74.00 | -27.51 | peak |
| 2 | 7965.000 | 45.35 | 7.00 | 52.35 | 74.00 | -21.65 | peak |
| 3 | 11505.000 | 36.64 | 13.42 | 50.06 | 74.00 | -23.94 | peak |
| 4 | 13575.000 | 35.48 | 15.97 | 51.45 | 74.00 | -22.55 | peak |
| 5 | 14940.000 | 37.03 | 16.00 | 53.03 | 74.00 | -20.97 | peak |
| 6 | 17925.000 | 29.69 | 23.37 | 53.06 | 74.00 | -20.94 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.2.2. 802.11g MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

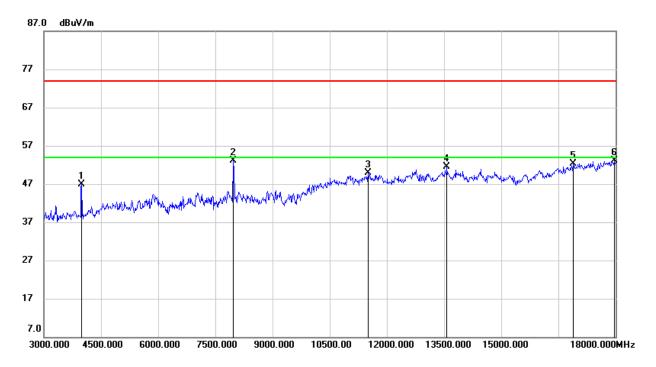


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3975.000 | 45.51 | -2.90 | 42.61 | 74.00 | -31.39 | peak |
| 2 | 5880.000 | 39.88 | 4.59 | 44.47 | 74.00 | -29.53 | peak |
| 3 | 11715.000 | 36.42 | 12.99 | 49.41 | 74.00 | -24.59 | peak |
| 4 | 14805.000 | 34.72 | 15.92 | 50.64 | 74.00 | -23.36 | peak |
| 5 | 16890.000 | 31.12 | 19.97 | 51.09 | 74.00 | -22.91 | peak |
| 6 | 17850.000 | 28.97 | 23.32 | 52.29 | 74.00 | -21.71 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

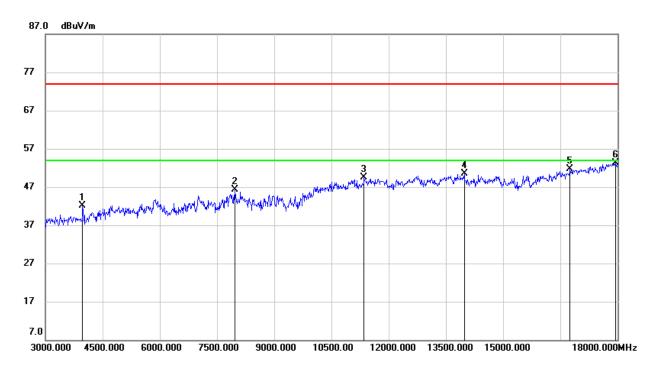


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 49.73 | -2.89 | 46.84 | 74.00 | -27.16 | peak |
| 2 | 7965.000 | 46.08 | 7.00 | 53.08 | 74.00 | -20.92 | peak |
| 3 | 11505.000 | 36.52 | 13.42 | 49.94 | 74.00 | -24.06 | peak |
| 4 | 13575.000 | 35.58 | 15.97 | 51.55 | 74.00 | -22.45 | peak |
| 5 | 16890.000 | 32.37 | 19.97 | 52.34 | 74.00 | -21.66 | peak |
| 6 | 17970.000 | 29.75 | 23.42 | 53.17 | 74.00 | -20.83 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

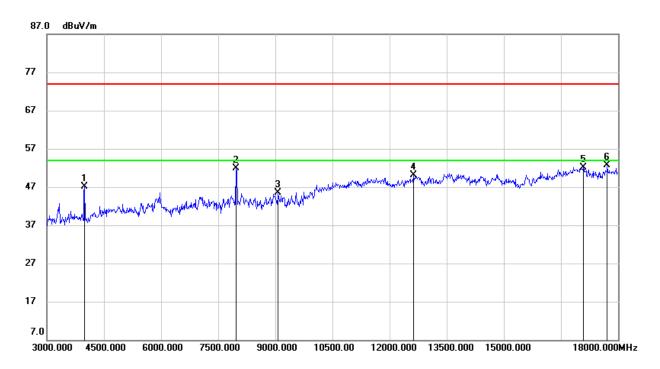


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3975.000 | 44.96 | -2.90 | 42.06 | 74.00 | -31.94 | peak |
| 2 | 7965.000 | 39.31 | 7.00 | 46.31 | 74.00 | -27.69 | peak |
| 3 | 11355.000 | 37.01 | 12.48 | 49.49 | 74.00 | -24.51 | peak |
| 4 | 13980.000 | 34.46 | 16.07 | 50.53 | 74.00 | -23.47 | peak |
| 5 | 16755.000 | 31.78 | 19.94 | 51.72 | 74.00 | -22.28 | peak |
| 6 | 17940.000 | 29.84 | 23.39 | 53.23 | 74.00 | -20.77 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

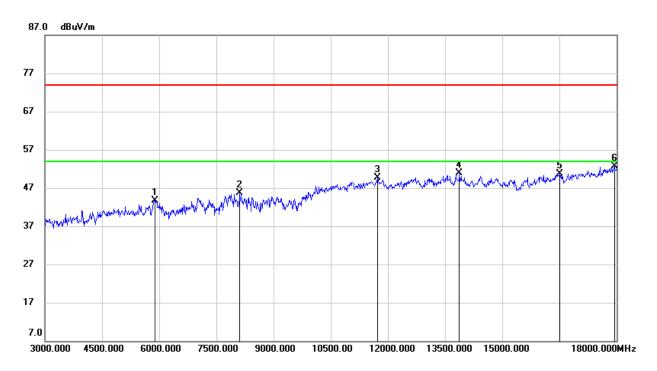


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 50.08 | -2.89 | 47.19 | 74.00 | -26.81 | peak |
| 2 | 7965.000 | 44.84 | 7.00 | 51.84 | 74.00 | -22.16 | peak |
| 3 | 9075.000 | 36.25 | 9.28 | 45.53 | 74.00 | -28.47 | peak |
| 4 | 12630.000 | 35.95 | 14.08 | 50.03 | 74.00 | -23.97 | peak |
| 5 | 17085.000 | 31.59 | 20.60 | 52.19 | 74.00 | -21.81 | peak |
| 6 | 17715.000 | 30.13 | 22.56 | 52.69 | 74.00 | -21.31 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

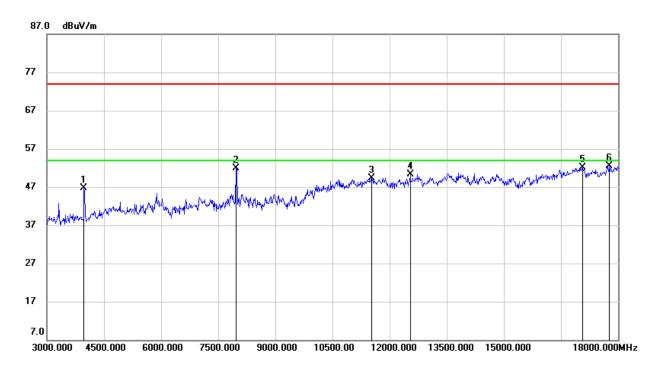


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 5880.000 | 39.20 | 4.59 | 43.79 | 74.00 | -30.21 | peak |
| 2 | 8115.000 | 37.75 | 7.90 | 45.65 | 74.00 | -28.35 | peak |
| 3 | 11730.000 | 36.59 | 13.02 | 49.61 | 74.00 | -24.39 | peak |
| 4 | 13875.000 | 34.46 | 16.44 | 50.90 | 74.00 | -23.10 | peak |
| 5 | 16500.000 | 31.53 | 19.19 | 50.72 | 74.00 | -23.28 | peak |
| 6 | 17940.000 | 29.35 | 23.39 | 52.74 | 74.00 | -21.26 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



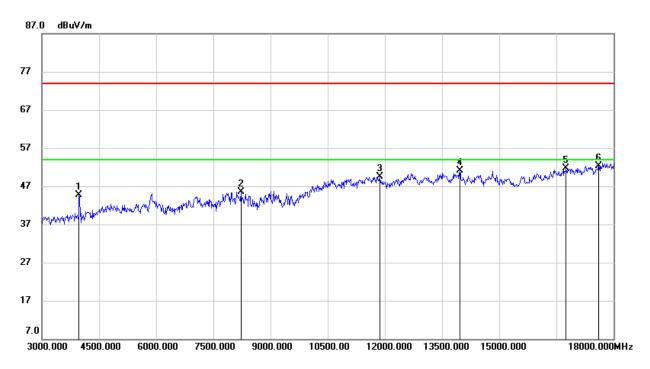
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3975.000 | 49.63 | -2.90 | 46.73 | 74.00 | -27.27 | peak |
| 2 | 7965.000 | 44.96 | 7.00 | 51.96 | 74.00 | -22.04 | peak |
| 3 | 11520.000 | 35.83 | 13.38 | 49.21 | 74.00 | -24.79 | peak |
| 4 | 12540.000 | 35.96 | 14.33 | 50.29 | 74.00 | -23.71 | peak |
| 5 | 17070.000 | 31.50 | 20.57 | 52.07 | 74.00 | -21.93 | peak |
| 6 | 17775.000 | 29.34 | 23.09 | 52.43 | 74.00 | -21.57 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.2.3. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

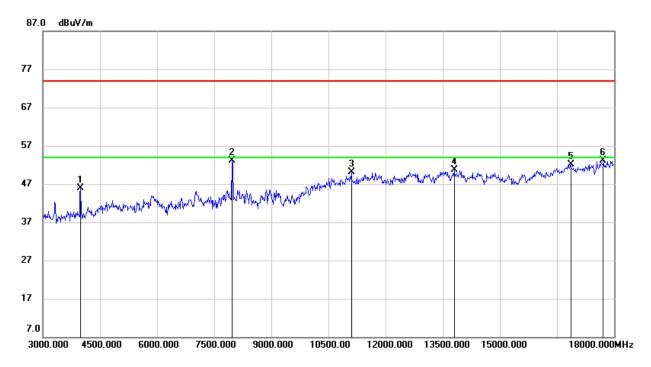


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3975.000 | 47.53 | -2.90 | 44.63 | 74.00 | -29.37 | peak |
| 2 | 8220.000 | 37.25 | 8.22 | 45.47 | 74.00 | -28.53 | peak |
| 3 | 11865.000 | 36.24 | 13.21 | 49.45 | 74.00 | -24.55 | peak |
| 4 | 13965.000 | 35.10 | 16.09 | 51.19 | 74.00 | -22.81 | peak |
| 5 | 16755.000 | 31.82 | 19.94 | 51.76 | 74.00 | -22.24 | peak |
| 6 | 17610.000 | 30.53 | 21.86 | 52.39 | 74.00 | -21.61 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

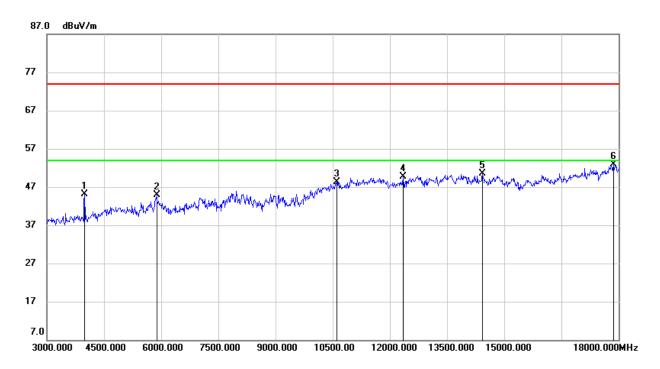


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 48.84 | -2.89 | 45.95 | 74.00 | -28.05 | peak |
| 2 | 7965.000 | 46.18 | 7.00 | 53.18 | 74.00 | -20.82 | peak |
| 3 | 11100.000 | 37.48 | 12.56 | 50.04 | 74.00 | -23.96 | peak |
| 4 | 13800.000 | 33.53 | 17.10 | 50.63 | 74.00 | -23.37 | peak |
| 5 | 16860.000 | 32.25 | 19.95 | 52.20 | 74.00 | -21.80 | peak |
| 6 | 17715.000 | 30.52 | 22.56 | 53.08 | 74.00 | -20.92 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

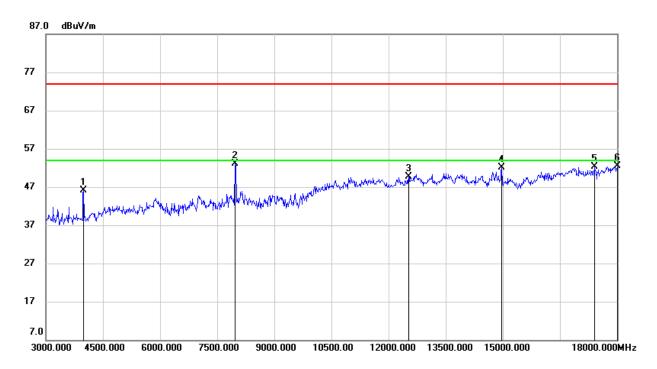


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 48.05 | -2.89 | 45.16 | 74.00 | -28.84 | peak |
| 2 | 5880.000 | 40.31 | 4.59 | 44.90 | 74.00 | -29.10 | peak |
| 3 | 10605.000 | 36.38 | 11.93 | 48.31 | 74.00 | -25.69 | peak |
| 4 | 12345.000 | 35.69 | 14.05 | 49.74 | 74.00 | -24.26 | peak |
| 5 | 14430.000 | 34.12 | 16.35 | 50.47 | 74.00 | -23.53 | peak |
| 6 | 17865.000 | 29.67 | 23.33 | 53.00 | 74.00 | -21.00 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

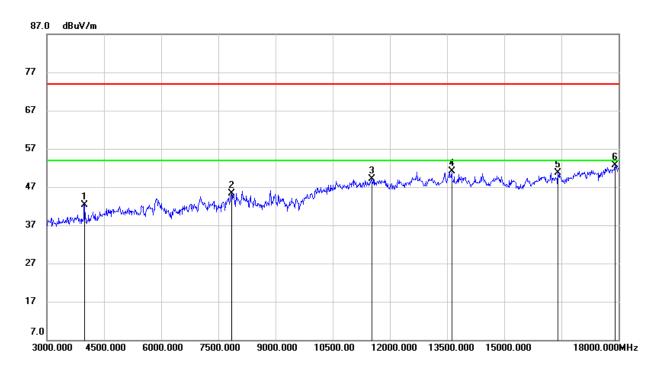


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 48.98 | -2.89 | 46.09 | 74.00 | -27.91 | peak |
| 2 | 7965.000 | 46.04 | 7.00 | 53.04 | 74.00 | -20.96 | peak |
| 3 | 12525.000 | 35.30 | 14.41 | 49.71 | 74.00 | -24.29 | peak |
| 4 | 14970.000 | 36.18 | 15.98 | 52.16 | 74.00 | -21.84 | peak |
| 5 | 17400.000 | 30.86 | 21.41 | 52.27 | 74.00 | -21.73 | peak |
| 6 | 18000.000 | 29.14 | 23.46 | 52.60 | 74.00 | -21.40 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

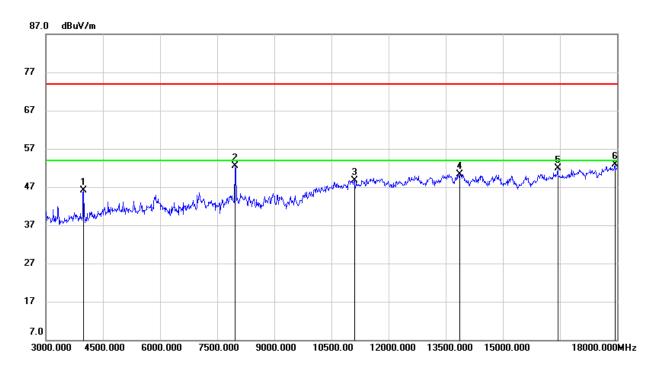


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 45.23 | -2.89 | 42.34 | 74.00 | -31.66 | peak |
| 2 | 7845.000 | 37.75 | 7.62 | 45.37 | 74.00 | -28.63 | peak |
| 3 | 11520.000 | 35.67 | 13.38 | 49.05 | 74.00 | -24.95 | peak |
| 4 | 13620.000 | 35.04 | 15.99 | 51.03 | 74.00 | -22.97 | peak |
| 5 | 16410.000 | 31.84 | 18.82 | 50.66 | 74.00 | -23.34 | peak |
| 6 | 17910.000 | 29.37 | 23.35 | 52.72 | 74.00 | -21.28 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



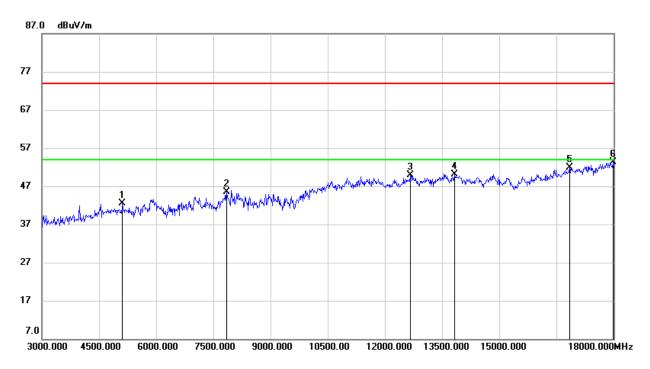
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 49.02 | -2.89 | 46.13 | 74.00 | -27.87 | peak |
| 2 | 7965.000 | 45.54 | 7.00 | 52.54 | 74.00 | -21.46 | peak |
| 3 | 11100.000 | 36.10 | 12.56 | 48.66 | 74.00 | -25.34 | peak |
| 4 | 13875.000 | 33.91 | 16.44 | 50.35 | 74.00 | -23.65 | peak |
| 5 | 16440.000 | 32.96 | 18.94 | 51.90 | 74.00 | -22.10 | peak |
| 6 | 17940.000 | 29.50 | 23.39 | 52.89 | 74.00 | -21.11 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.2.4. 802.11n HT40 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

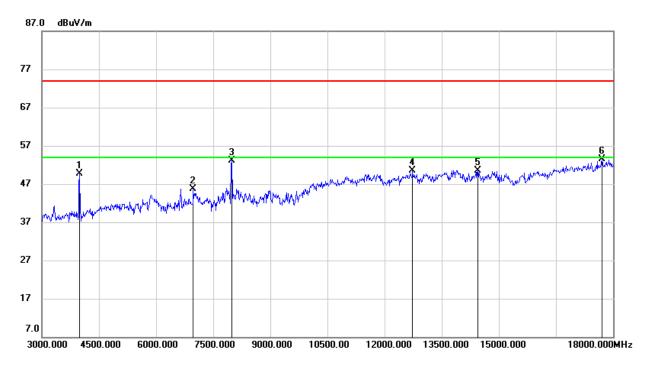


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 5115.000 | 40.77 | 1.66 | 42.43 | 74.00 | -31.57 | peak |
| 2 | 7845.000 | 37.81 | 7.62 | 45.43 | 74.00 | -28.57 | peak |
| 3 | 12675.000 | 35.78 | 14.21 | 49.99 | 74.00 | -24.01 | peak |
| 4 | 13830.000 | 33.21 | 16.84 | 50.05 | 74.00 | -23.95 | peak |
| 5 | 16845.000 | 31.88 | 19.96 | 51.84 | 74.00 | -22.16 | peak |
| 6 | 17985.000 | 29.90 | 23.44 | 53.34 | 74.00 | -20.66 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

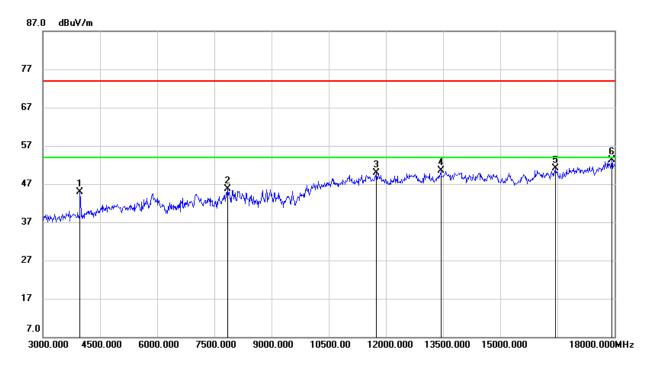


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 52.64 | -2.89 | 49.75 | 74.00 | -24.25 | peak |
| 2 | 6975.000 | 39.97 | 5.79 | 45.76 | 74.00 | -28.24 | peak |
| 3 | 7995.000 | 46.23 | 6.89 | 53.12 | 74.00 | -20.88 | peak |
| 4 | 12735.000 | 35.79 | 14.77 | 50.56 | 74.00 | -23.44 | peak |
| 5 | 14445.000 | 34.11 | 16.36 | 50.47 | 74.00 | -23.53 | peak |
| 6 | 17700.000 | 31.01 | 22.43 | 53.44 | 74.00 | -20.56 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

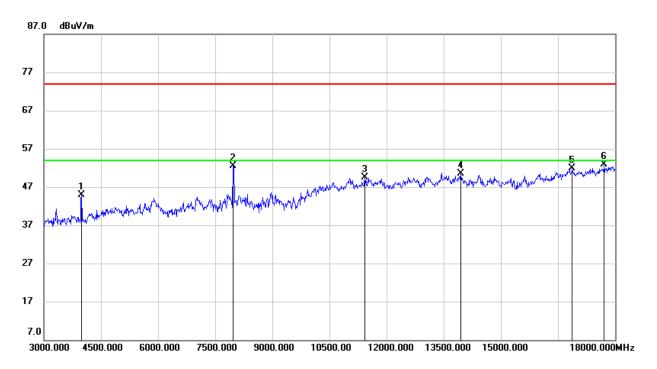


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3975.000 | 47.88 | -2.90 | 44.98 | 74.00 | -29.02 | peak |
| 2 | 7845.000 | 38.04 | 7.62 | 45.66 | 74.00 | -28.34 | peak |
| 3 | 11745.000 | 36.77 | 13.05 | 49.82 | 74.00 | -24.18 | peak |
| 4 | 13440.000 | 34.55 | 15.98 | 50.53 | 74.00 | -23.47 | peak |
| 5 | 16455.000 | 32.03 | 19.00 | 51.03 | 74.00 | -22.97 | peak |
| 6 | 17925.000 | 29.97 | 23.37 | 53.34 | 74.00 | -20.66 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

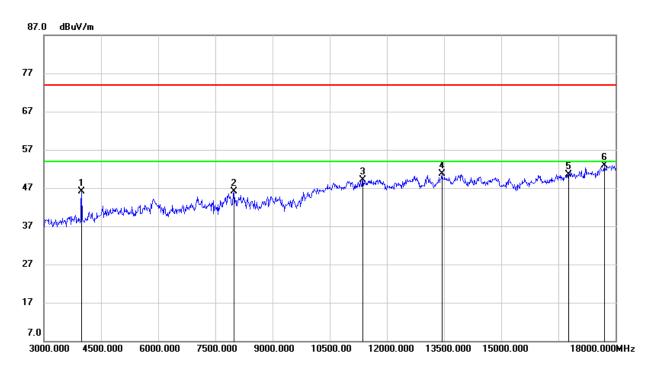


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 47.87 | -2.89 | 44.98 | 74.00 | -29.02 | peak |
| 2 | 7965.000 | 45.53 | 7.00 | 52.53 | 74.00 | -21.47 | peak |
| 3 | 11430.000 | 36.68 | 12.85 | 49.53 | 74.00 | -24.47 | peak |
| 4 | 13950.000 | 34.41 | 16.11 | 50.52 | 74.00 | -23.48 | peak |
| 5 | 16875.000 | 31.93 | 19.96 | 51.89 | 74.00 | -22.11 | peak |
| 6 | 17715.000 | 30.40 | 22.56 | 52.96 | 74.00 | -21.04 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

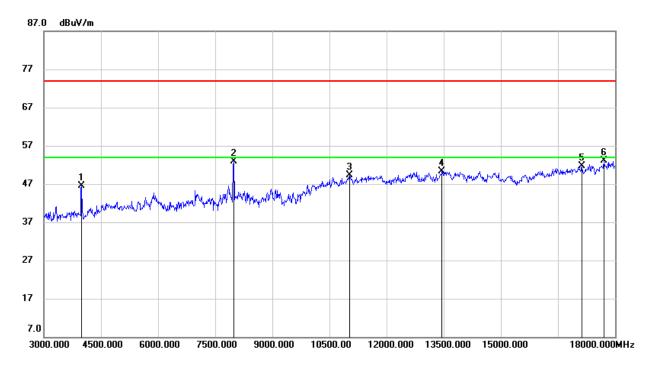


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 48.94 | -2.89 | 46.05 | 74.00 | -27.95 | peak |
| 2 | 7995.000 | 39.14 | 6.89 | 46.03 | 74.00 | -27.97 | peak |
| 3 | 11370.000 | 36.50 | 12.54 | 49.04 | 74.00 | -24.96 | peak |
| 4 | 13440.000 | 34.66 | 15.98 | 50.64 | 74.00 | -23.36 | peak |
| 5 | 16770.000 | 30.64 | 19.95 | 50.59 | 74.00 | -23.41 | peak |
| 6 | 17700.000 | 30.40 | 22.43 | 52.83 | 74.00 | -21.17 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 49.34 | -2.89 | 46.45 | 74.00 | -27.55 | peak |
| 2 | 7995.000 | 46.02 | 6.89 | 52.91 | 74.00 | -21.09 | peak |
| 3 | 11025.000 | 36.68 | 12.61 | 49.29 | 74.00 | -24.71 | peak |
| 4 | 13455.000 | 34.41 | 15.93 | 50.34 | 74.00 | -23.66 | peak |
| 5 | 17130.000 | 30.98 | 20.72 | 51.70 | 74.00 | -22.30 | peak |
| 6 | 17700.000 | 30.59 | 22.43 | 53.02 | 74.00 | -20.98 | peak |

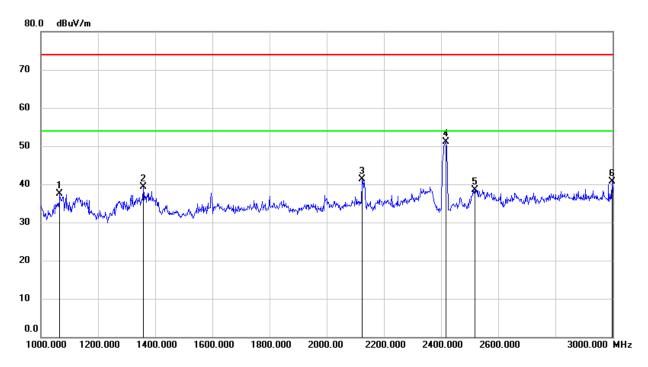
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3. SPURIOUS EMISSIONS (1~3GHz)

8.3.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

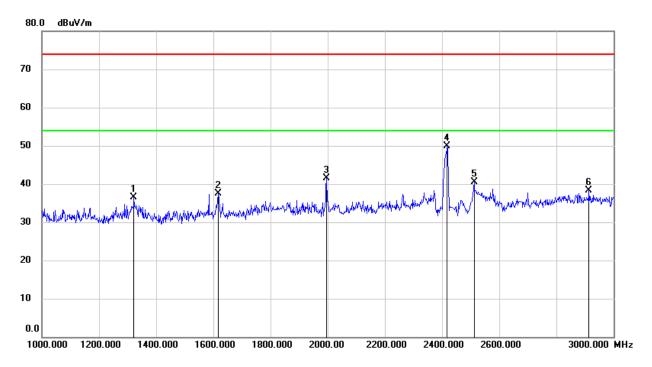


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1066.000 | 50.98 | -13.54 | 37.44 | 74.00 | -36.56 | peak |
| 2 | 1358.000 | 51.71 | -12.37 | 39.34 | 74.00 | -34.66 | peak |
| 3 | 2124.000 | 50.42 | -9.04 | 41.38 | 74.00 | -32.62 | peak |
| 4 | 2412.000 | 58.85 | -7.75 | 51.10 | / | / | fundamental |
| 5 | 2518.000 | 45.84 | -7.27 | 38.57 | 74.00 | -35.43 | peak |
| 6 | 2998.000 | 46.04 | -5.31 | 40.73 | 74.00 | -33.27 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

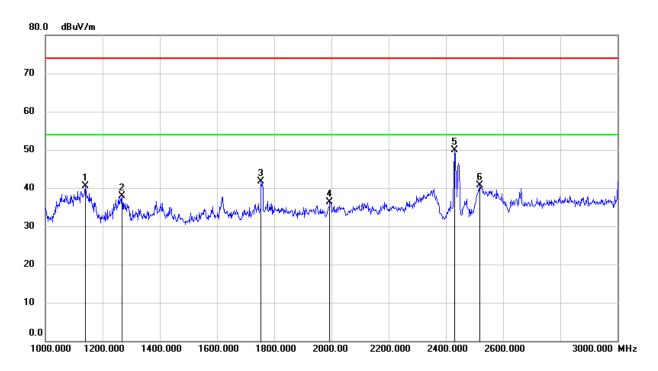


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1322.000 | 48.80 | -12.35 | 36.45 | 74.00 | -37.55 | peak |
| 2 | 1616.000 | 48.85 | -11.32 | 37.53 | 74.00 | -36.47 | peak |
| 3 | 1996.000 | 51.27 | -9.83 | 41.44 | 74.00 | -32.56 | peak |
| 4 | 2412.000 | 57.66 | -7.74 | 49.92 | / | / | fundamental |
| 5 | 2512.000 | 47.81 | -7.23 | 40.58 | 74.00 | -33.42 | peak |
| 6 | 2914.000 | 43.72 | -5.50 | 38.22 | 74.00 | -35.78 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

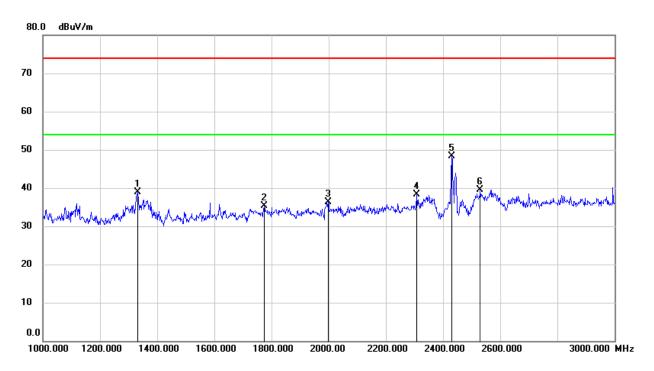


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1140.000 | 53.63 | -13.19 | 40.44 | 74.00 | -33.56 | peak |
| 2 | 1268.000 | 50.38 | -12.45 | 37.93 | 74.00 | -36.07 | peak |
| 3 | 1754.000 | 52.12 | -10.37 | 41.75 | 74.00 | -32.25 | peak |
| 4 | 1994.000 | 46.15 | -9.83 | 36.32 | 74.00 | -37.68 | peak |
| 5 | 2437.000 | 57.54 | -7.65 | 49.89 | / | / | fundamental |
| 6 | 2518.000 | 47.94 | -7.27 | 40.67 | 74.00 | -33.33 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

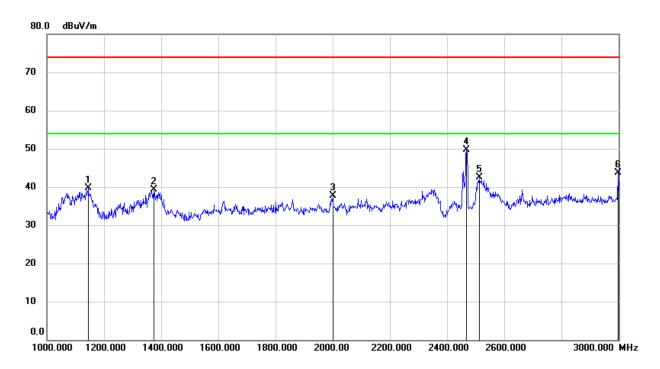


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1332.000 | 51.34 | -12.35 | 38.99 | 74.00 | -35.01 | peak |
| 2 | 1774.000 | 45.38 | -10.17 | 35.21 | 74.00 | -38.79 | peak |
| 3 | 1998.000 | 46.19 | -9.83 | 36.36 | 74.00 | -37.64 | peak |
| 4 | 2308.000 | 46.39 | -8.17 | 38.22 | 74.00 | -35.78 | peak |
| 5 | 2437.000 | 55.96 | -7.65 | 48.31 | / | / | fundamental |
| 6 | 2530.000 | 46.87 | -7.32 | 39.55 | 74.00 | -34.45 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

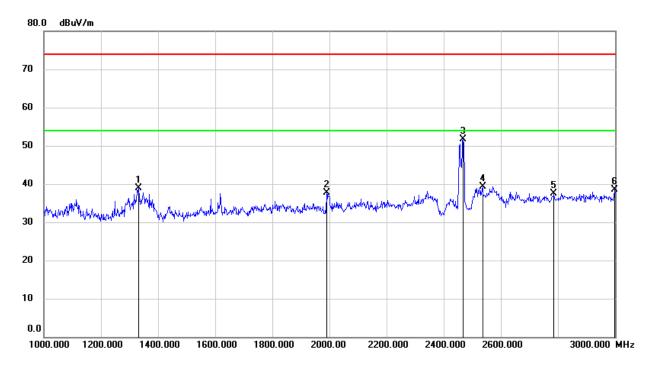


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1144.000 | 52.90 | -13.15 | 39.75 | 74.00 | -34.25 | peak |
| 2 | 1374.000 | 51.64 | -12.38 | 39.26 | 74.00 | -34.74 | peak |
| 3 | 2000.000 | 47.62 | -9.82 | 37.80 | 74.00 | -36.20 | peak |
| 4 | 2462.000 | 57.06 | -7.39 | 49.67 | / | / | fundamental |
| 5 | 2512.000 | 49.66 | -7.23 | 42.43 | 74.00 | -31.57 | peak |
| 6 | 2998.000 | 49.04 | -5.31 | 43.73 | 74.00 | -30.27 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



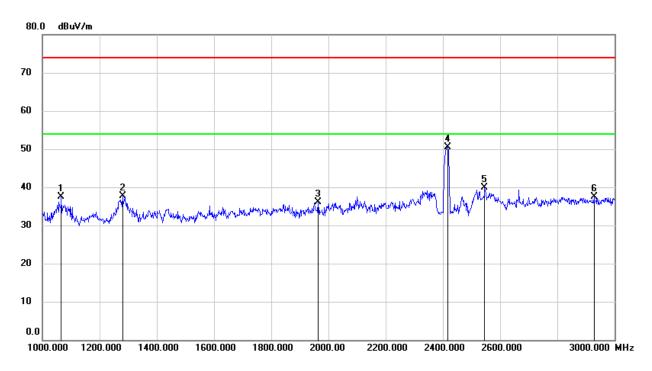
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1332.000 | 51.21 | -12.35 | 38.86 | 74.00 | -35.14 | peak |
| 2 | 1990.000 | 47.58 | -9.84 | 37.74 | 74.00 | -36.26 | peak |
| 3 | 2462.000 | 59.10 | -7.39 | 51.71 | / | / | fundamental |
| 4 | 2536.000 | 46.73 | -7.36 | 39.37 | 74.00 | -34.63 | peak |
| 5 | 2786.000 | 43.79 | -6.20 | 37.59 | 74.00 | -36.41 | peak |
| 6 | 2998.000 | 43.88 | -5.31 | 38.57 | 74.00 | -35.43 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.2. 802.11g MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

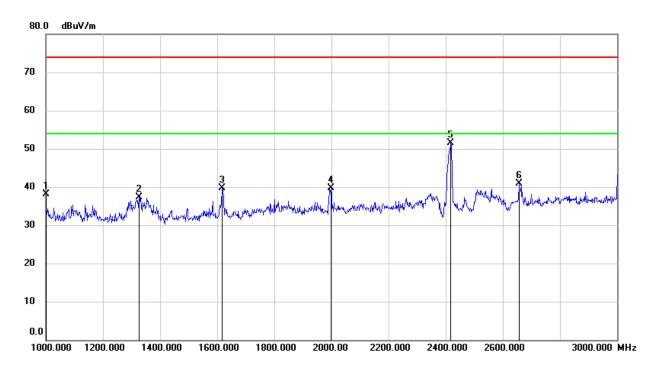


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1066.000 | 51.11 | -13.54 | 37.57 | 74.00 | -36.43 | peak |
| 2 | 1280.000 | 50.06 | -12.41 | 37.65 | 74.00 | -36.35 | peak |
| 3 | 1964.000 | 46.01 | -9.87 | 36.14 | 74.00 | -37.86 | peak |
| 4 | 2412.000 | 58.30 | -7.75 | 50.55 | / | / | fundamental |
| 5 | 2546.000 | 47.38 | -7.41 | 39.97 | 74.00 | -34.03 | peak |
| 6 | 2928.000 | 42.87 | -5.46 | 37.41 | 74.00 | -36.59 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

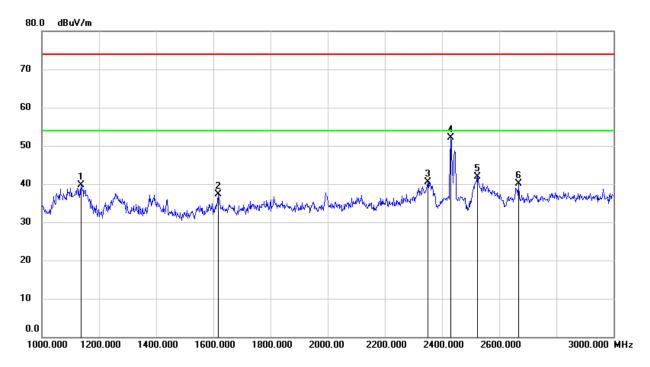


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1000.0000 | 51.63 | -13.59 | 38.04 | 74.00 | -35.96 | peak |
| 2 | 1326.000 | 49.69 | -12.35 | 37.34 | 74.00 | -36.66 | peak |
| 3 | 1616.000 | 50.98 | -11.32 | 39.66 | 74.00 | -34.34 | peak |
| 4 | 1998.000 | 49.57 | -9.83 | 39.74 | 74.00 | -34.26 | peak |
| 5 | 2412.000 | 59.19 | -7.74 | 51.45 | / | / | fundamental |
| 6 | 2656.000 | 48.34 | -7.38 | 40.96 | 74.00 | -33.04 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

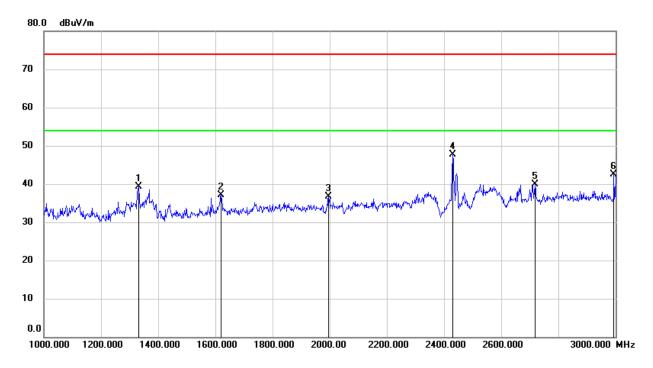


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1136.000 | 52.95 | -13.22 | 39.73 | 74.00 | -34.27 | peak |
| 2 | 1616.000 | 48.64 | -11.32 | 37.32 | 74.00 | -36.68 | peak |
| 3 | 2350.000 | 48.45 | -8.02 | 40.43 | 74.00 | -33.57 | peak |
| 4 | 2437.000 | 59.73 | -7.65 | 52.08 | / | / | fundamental |
| 5 | 2524.000 | 49.15 | -7.29 | 41.86 | 74.00 | -32.14 | peak |
| 6 | 2668.000 | 47.43 | -7.32 | 40.11 | 74.00 | -33.89 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

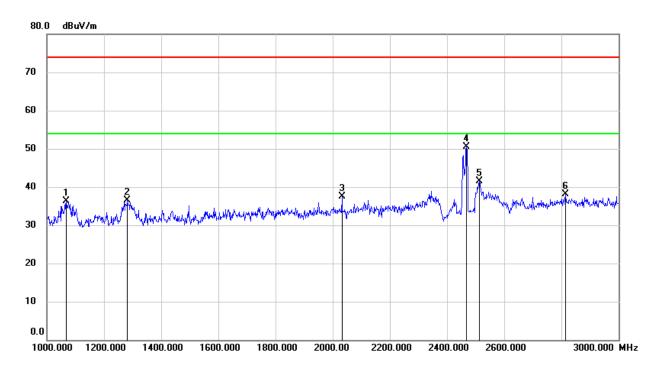


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1332.000 | 51.59 | -12.35 | 39.24 | 74.00 | -34.76 | peak |
| 2 | 1620.000 | 48.31 | -11.29 | 37.02 | 74.00 | -36.98 | peak |
| 3 | 1996.000 | 46.49 | -9.83 | 36.66 | 74.00 | -37.34 | peak |
| 4 | 2437.000 | 55.36 | -7.65 | 47.71 | / | / | fundamental |
| 5 | 2718.000 | 46.90 | -6.94 | 39.96 | 74.00 | -34.04 | peak |
| 6 | 2994.000 | 47.76 | -5.31 | 42.45 | 74.00 | -31.55 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

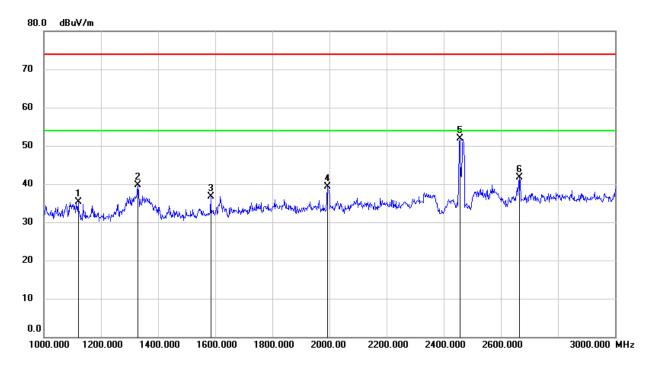


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1068.000 | 49.77 | -13.54 | 36.23 | 74.00 | -37.77 | peak |
| 2 | 1282.000 | 48.91 | -12.40 | 36.51 | 74.00 | -37.49 | peak |
| 3 | 2032.000 | 47.09 | -9.60 | 37.49 | 74.00 | -36.51 | peak |
| 4 | 2462.000 | 57.99 | -7.39 | 50.60 | / | / | fundamental |
| 5 | 2514.000 | 48.76 | -7.24 | 41.52 | 74.00 | -32.48 | peak |
| 6 | 2814.000 | 44.11 | -5.98 | 38.13 | 74.00 | -35.87 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



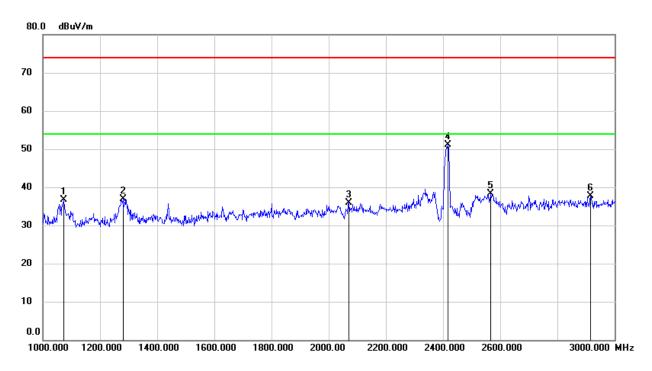
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1120.000 | 48.58 | -13.34 | 35.24 | 74.00 | -38.76 | peak |
| 2 | 1328.000 | 51.98 | -12.36 | 39.62 | 74.00 | -34.38 | peak |
| 3 | 1584.000 | 48.20 | -11.53 | 36.67 | 74.00 | -37.33 | peak |
| 4 | 1992.000 | 49.11 | -9.83 | 39.28 | 74.00 | -34.72 | peak |
| 5 | 2462.000 | 59.46 | -7.47 | 51.99 | / | / | fundamental |
| 6 | 2664.000 | 49.02 | -7.34 | 41.68 | 74.00 | -32.32 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.3. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

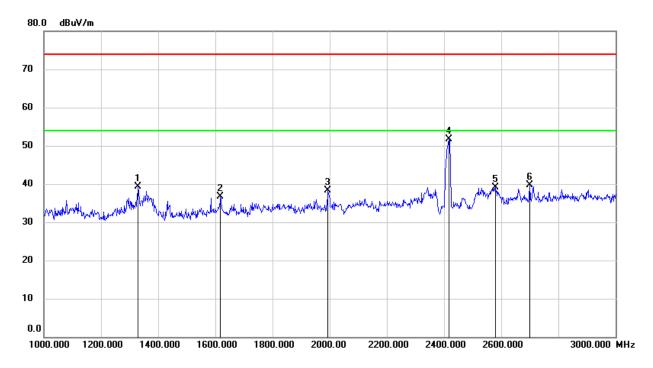


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1074.000 | 50.27 | -13.54 | 36.73 | 74.00 | -37.27 | peak |
| 2 | 1280.000 | 49.36 | -12.41 | 36.95 | 74.00 | -37.05 | peak |
| 3 | 2070.000 | 45.22 | -9.35 | 35.87 | 74.00 | -38.13 | peak |
| 4 | 2412.000 | 58.76 | -7.75 | 51.01 | / | / | fundamental |
| 5 | 2566.000 | 45.91 | -7.52 | 38.39 | 74.00 | -35.61 | peak |
| 6 | 2916.000 | 43.27 | -5.48 | 37.79 | 74.00 | -36.21 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

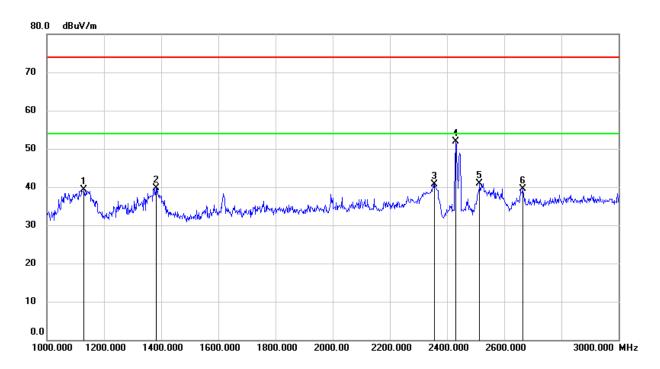


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1330.000 | 51.65 | -12.36 | 39.29 | 74.00 | -34.71 | peak |
| 2 | 1618.000 | 48.04 | -11.31 | 36.73 | 74.00 | -37.27 | peak |
| 3 | 1994.000 | 48.11 | -9.83 | 38.28 | 74.00 | -35.72 | peak |
| 4 | 2412.000 | 59.39 | -7.74 | 51.65 | / | / | fundamental |
| 5 | 2580.000 | 46.60 | -7.59 | 39.01 | 74.00 | -34.99 | peak |
| 6 | 2700.000 | 46.92 | -7.13 | 39.79 | 74.00 | -34.21 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

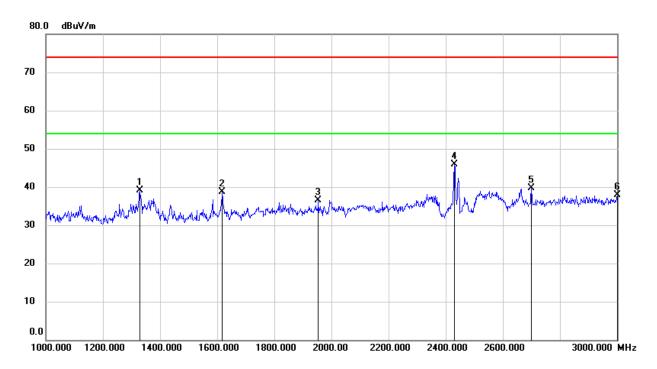


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1130.000 | 52.53 | -13.27 | 39.26 | 74.00 | -34.74 | peak |
| 2 | 1382.000 | 52.13 | -12.37 | 39.76 | 74.00 | -34.24 | peak |
| 3 | 2356.000 | 48.76 | -8.00 | 40.76 | 74.00 | -33.24 | peak |
| 4 | 2437.000 | 59.48 | -7.65 | 51.83 | / | / | fundamental |
| 5 | 2514.000 | 48.24 | -7.24 | 41.00 | 74.00 | -33.00 | peak |
| 6 | 2664.000 | 46.84 | -7.34 | 39.50 | 74.00 | -34.50 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

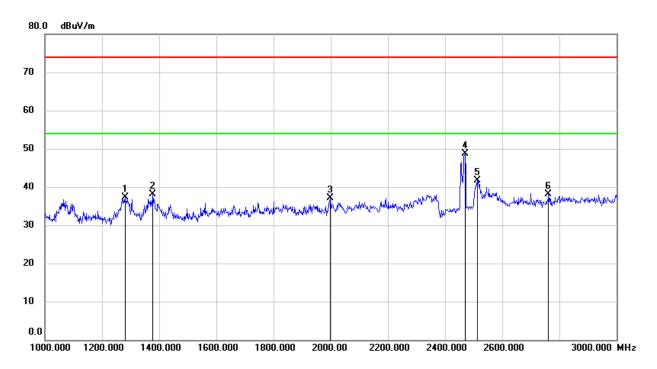


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1328.000 | 51.46 | -12.36 | 39.10 | 74.00 | -34.90 | peak |
| 2 | 1618.000 | 50.06 | -11.31 | 38.75 | 74.00 | -35.25 | peak |
| 3 | 1954.000 | 46.47 | -9.87 | 36.60 | 74.00 | -37.40 | peak |
| 4 | 2437.000 | 53.63 | -7.65 | 45.98 | / | / | fundamental |
| 5 | 2700.000 | 46.91 | -7.13 | 39.78 | 74.00 | -34.22 | peak |
| 6 | 3000.000 | 43.16 | -5.30 | 37.86 | 74.00 | -36.14 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

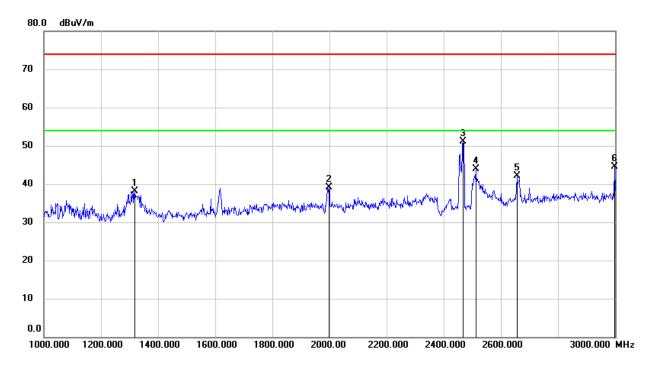


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1280.000 | 49.65 | -12.41 | 37.24 | 74.00 | -36.76 | peak |
| 2 | 1376.000 | 50.47 | -12.37 | 38.10 | 74.00 | -35.90 | peak |
| 3 | 1998.000 | 46.87 | -9.83 | 37.04 | 74.00 | -36.96 | peak |
| 4 | 2462.000 | 55.99 | -7.37 | 48.62 | / | / | fundamental |
| 5 | 2512.000 | 49.00 | -7.23 | 41.77 | 74.00 | -32.23 | peak |
| 6 | 2762.000 | 44.63 | -6.47 | 38.16 | 74.00 | -35.84 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



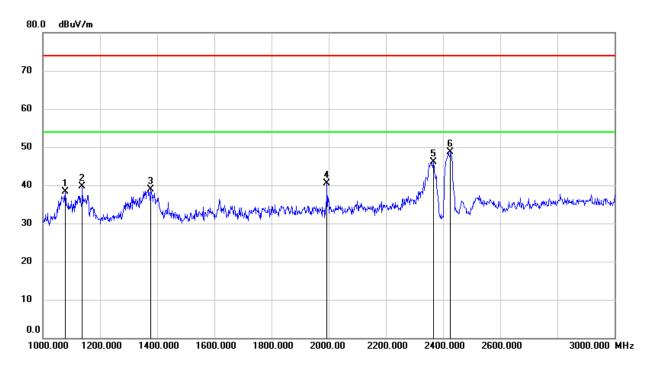
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1318.000 | 50.55 | -12.36 | 38.19 | 74.00 | -35.81 | peak |
| 2 | 1998.000 | 48.84 | -9.83 | 39.01 | 74.00 | -34.99 | peak |
| 3 | 2462.000 | 58.52 | -7.39 | 51.13 | / | / | fundamental |
| 4 | 2512.000 | 51.16 | -7.23 | 43.93 | 74.00 | -30.07 | peak |
| 5 | 2656.000 | 49.54 | -7.38 | 42.16 | 74.00 | -31.84 | peak |
| 6 | 2998.000 | 49.73 | -5.31 | 44.42 | 74.00 | -29.58 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.4. 802.11n HT40 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

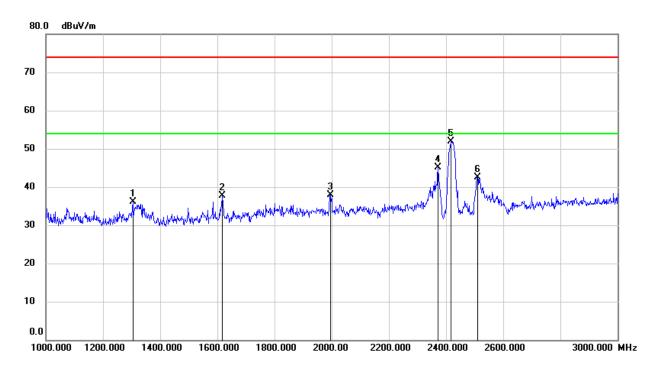


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1078.000 | 51.78 | -13.53 | 38.25 | 74.00 | -35.75 | peak |
| 2 | 1138.000 | 52.90 | -13.19 | 39.71 | 74.00 | -34.29 | peak |
| 3 | 1378.000 | 51.20 | -12.38 | 38.82 | 74.00 | -35.18 | peak |
| 4 | 1994.000 | 50.39 | -9.83 | 40.56 | 74.00 | -33.44 | peak |
| 5 | 2366.000 | 54.00 | -7.97 | 46.03 | 74.00 | -27.97 | peak |
| 6 | 2422.000 | 56.31 | -7.67 | 48.64 | / | / | fundamental |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

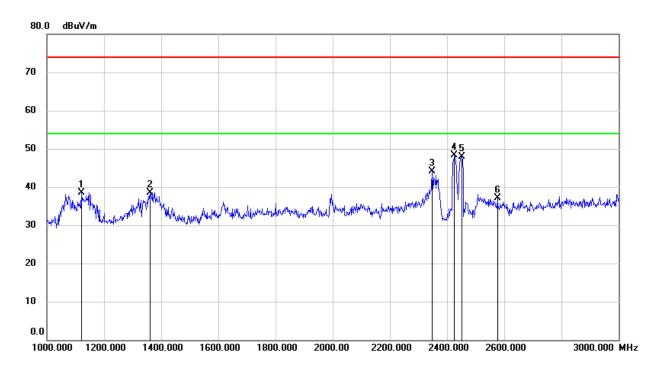


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1304.000 | 48.37 | -12.34 | 36.03 | 74.00 | -37.97 | peak |
| 2 | 1616.000 | 49.09 | -11.32 | 37.77 | 74.00 | -36.23 | peak |
| 3 | 1996.000 | 47.81 | -9.83 | 37.98 | 74.00 | -36.02 | peak |
| 4 | 2372.000 | 52.98 | -7.95 | 45.03 | 74.00 | -28.97 | peak |
| 5 | 2422.000 | 59.64 | -7.74 | 51.90 | / | / | fundamental |
| 6 | 2510.000 | 49.75 | -7.21 | 42.54 | 74.00 | -31.46 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

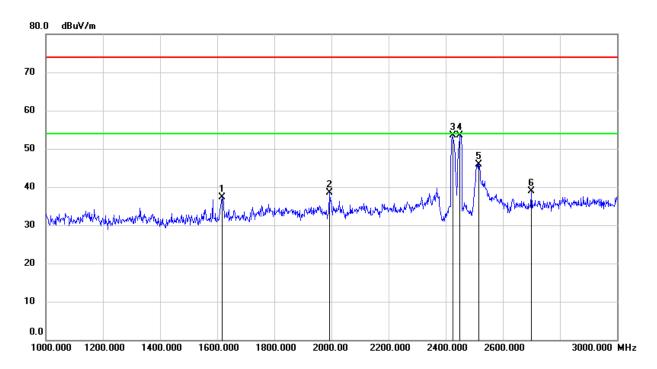


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1120.000 | 51.79 | -13.34 | 38.45 | 74.00 | -35.55 | peak |
| 2 | 1362.000 | 50.95 | -12.37 | 38.58 | 74.00 | -35.42 | peak |
| 3 | 2348.000 | 52.23 | -8.03 | 44.20 | 74.00 | -29.80 | peak |
| 4 | 2437.000 | 55.99 | -7.67 | 48.32 | / | / | fundamental |
| 5 | 2456.210 | 55.47 | -7.50 | 47.97 | 74.00 | -26.03 | peak |
| 6 | 2576.000 | 44.75 | -7.57 | 37.18 | 74.00 | -36.82 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

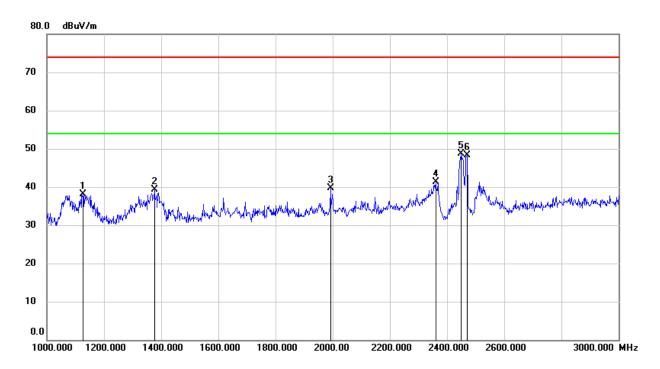


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1616.000 | 48.71 | -11.32 | 37.39 | 74.00 | -36.61 | peak |
| 2 | 1992.000 | 48.31 | -9.83 | 38.48 | 74.00 | -35.52 | peak |
| 3 | 2437.000 | 61.16 | -7.70 | 53.46 | / | / | fundamental |
| 4 | 2456.145 | 60.98 | -7.51 | 53.47 | 74.00 | -20.53 | peak |
| 5 | 2516.000 | 53.10 | -7.25 | 45.85 | 74.00 | -28.15 | peak |
| 6 | 2700.000 | 45.96 | -7.13 | 38.83 | 74.00 | -35.17 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

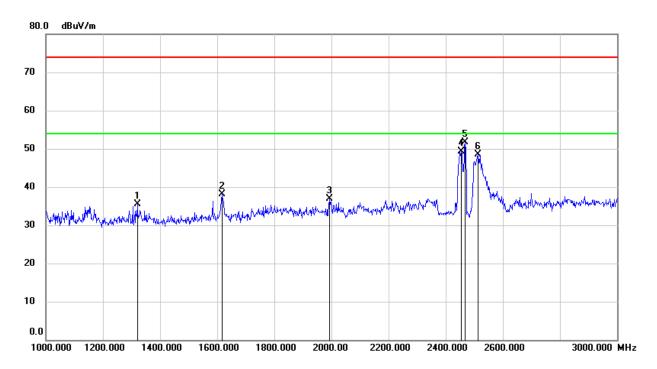


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1126.000 | 51.37 | -13.29 | 38.08 | 74.00 | -35.92 | peak |
| 2 | 1376.000 | 51.66 | -12.37 | 39.29 | 74.00 | -34.71 | peak |
| 3 | 1992.000 | 49.50 | -9.83 | 39.67 | 74.00 | -34.33 | peak |
| 4 | 2360.000 | 49.21 | -7.99 | 41.22 | 74.00 | -32.78 | peak |
| 5 | 2452.000 | 56.28 | -7.52 | 48.76 | / | / | fundamental |
| 6 | 2470.000 | 55.61 | -7.37 | 48.24 | 74.00 | -25.76 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1320.000 | 47.86 | -12.35 | 35.51 | 74.00 | -38.49 | peak |
| 2 | 1616.000 | 49.52 | -11.32 | 38.20 | 74.00 | -35.80 | peak |
| 3 | 1994.000 | 46.64 | -9.83 | 36.81 | 74.00 | -37.19 | peak |
| 4 | 2452.000 | 56.86 | -7.48 | 49.38 | / | / | fundamental |
| 5 | 2468.000 | 59.04 | -7.39 | 51.65 | 74.00 | -22.35 | peak |
| 6 | 2512.000 | 55.69 | -7.23 | 48.46 | 74.00 | -25.54 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

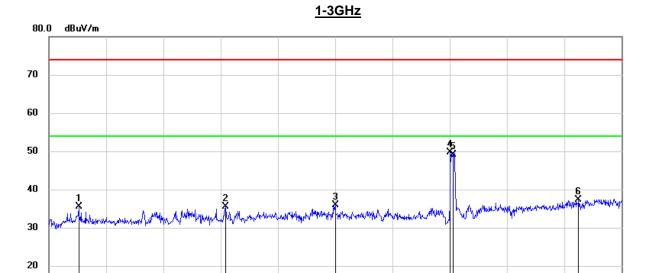


10

WORST-CASE CO-LOCATION 8.4.

8.4.1. BLE MODE AND 802.11n HT20 MODE (TRANSMIT SIMULTANEOUSLY)

SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



| 1000.000 | 1200.000 1400 | 0.000 1600.000 | 1800.000 | 2000.00 2200 | 0.000 2400.000 | 2600.000 | 3000.000 MHz |
|----------|---------------|----------------|----------|--------------|----------------|----------|--------------|
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1104.000 | 48.90 | -13.48 | 35.42 | 74.00 | -38.58 | peak |
| 2 | 1618.000 | 46.77 | -11.31 | 35.46 | 74.00 | -38.54 | peak |
| 3 | 2000.000 | 45.82 | -9.82 | 36.00 | 74.00 | -38.00 | peak |
| 4 | 2402.000 | 57.53 | -7.85 | 49.68 | / | / | fundamental |
| 5 | 2412.000 | 56.91 | -7.77 | 49.14 | / | / | fundamental |
| 6 | 2850.000 | 43.19 | -5.79 | 37.40 | 74.00 | -36.60 | peak |

Note: 1. Peak Result = Reading Level + Correct Factor.

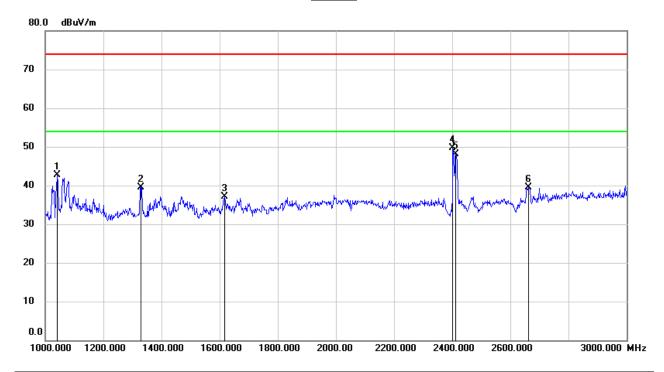
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.

- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)

<u>1-3GHz</u>



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|-------------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1042.000 | 56.23 | -13.56 | 42.67 | 74.00 | -31.33 | peak |
| 2 | 1330.000 | 51.86 | -12.36 | 39.50 | 74.00 | -34.50 | peak |
| 3 | 1618.000 | 48.37 | -11.31 | 37.06 | 74.00 | -36.94 | peak |
| 4 | 2402.000 | 57.62 | -7.85 | 49.77 | / | / | fundamental |
| 5 | 2412.000 | 55.83 | -7.77 | 48.06 | / | / | fundamental |
| 6 | 2662.000 | 46.86 | -7.35 | 39.51 | 74.00 | -34.49 | peak |

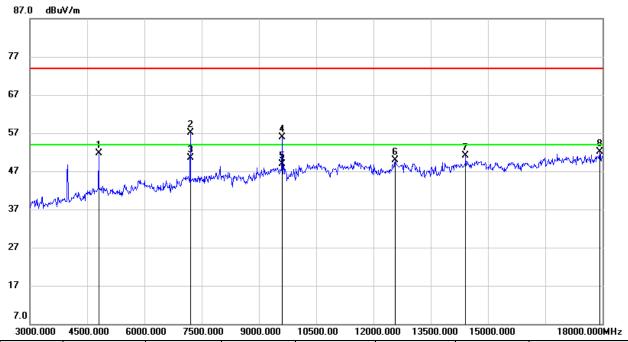
Note: 1. Peak Result = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

3-18GHz



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 4800.000 | 51.20 | 0.46 | 51.66 | 74.00 | -22.34 | peak |
| 2 | 7205.954 | 51.28 | 5.82 | 57.10 | 74.00 | -16.90 | peak |
| 3 | 7205.954 | 44.75 | 5.82 | 50.57 | 54.00 | -3.43 | AVG |
| 4 | 9607.932 | 46.26 | 9.69 | 55.95 | 74.00 | -18.05 | peak |
| 5 | 9607.932 | 39.17 | 9.69 | 48.86 | 54.00 | -5.14 | AVG |
| 6 | 12570.000 | 35.68 | 14.17 | 49.85 | 74.00 | -24.15 | peak |
| 7 | 14415.000 | 34.84 | 16.35 | 51.19 | 74.00 | -22.81 | peak |
| 8 | 17925.000 | 28.73 | 23.37 | 52.10 | 74.00 | -21.90 | peak |

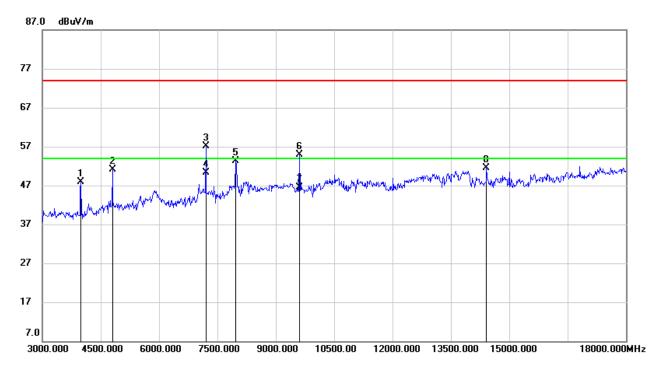
Note: 1. Peak Result = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)

3-18GHz



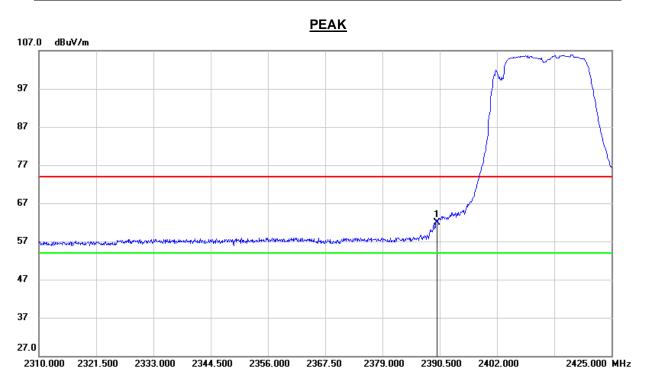
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 3990.000 | 50.88 | -2.89 | 47.99 | 74.00 | -26.01 | peak |
| 2 | 4800.000 | 50.59 | 0.46 | 51.05 | 74.00 | -22.95 | peak |
| 3 | 7205.594 | 51.19 | 5.82 | 57.01 | 74.00 | -16.99 | peak |
| 4 | 7205.954 | 44.51 | 5.82 | 50.33 | 54.00 | -3.67 | AVG |
| 5 | 7965.000 | 46.31 | 7.00 | 53.31 | 74.00 | -20.69 | peak |
| 6 | 9607.947 | 45.25 | 9.69 | 54.94 | 74.00 | -19.06 | peak |
| 7 | 9607.947 | 36.90 | 9.69 | 46.59 | 54.00 | -7.41 | AVG |
| 8 | 14415.000 | 35.25 | 16.35 | 51.60 | 74.00 | -22.40 | peak |

Note: 1. Peak Result = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



RESTRICTED BANDEDGE (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

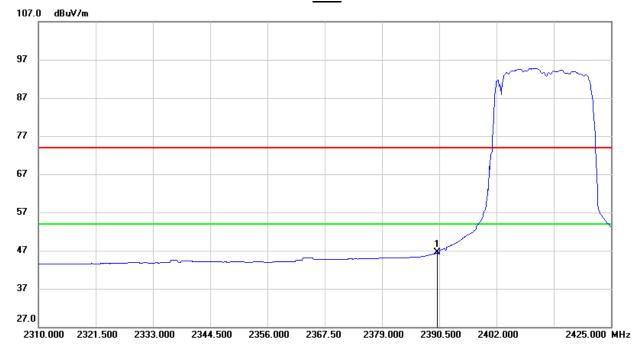


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2390.000 | 28.93 | 32.94 | 61.87 | 74.00 | -12.13 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







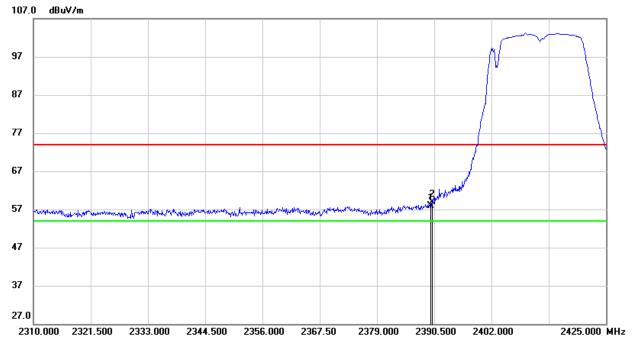
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2390.000 | 13.49 | 32.94 | 46.43 | 54.00 | -7.57 | AVG |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton where: ton is transmit duration.
- 4. For transmit duration, please refer to clause 7.1.
- 5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

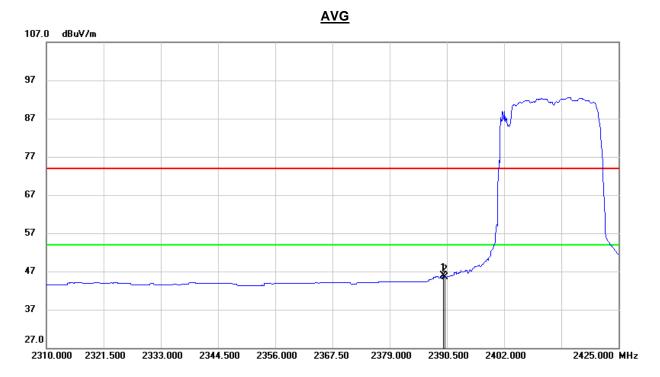
PEAK



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2389.810 | 24.98 | 32.94 | 57.92 | 74.00 | -16.08 | peak |
| 2 | 2390.000 | 25.89 | 32.94 | 58.83 | 74.00 | -15.17 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2389.810 | 13.05 | 32.94 | 45.99 | 54.00 | -8.01 | AVG |
| 2 | 2390.000 | 12.62 | 32.94 | 45.56 | 54.00 | -8.44 | AVG |

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton where: ton is transmit duration.
- 4. For transmit duration, please refer to clause 7.1.
- 5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

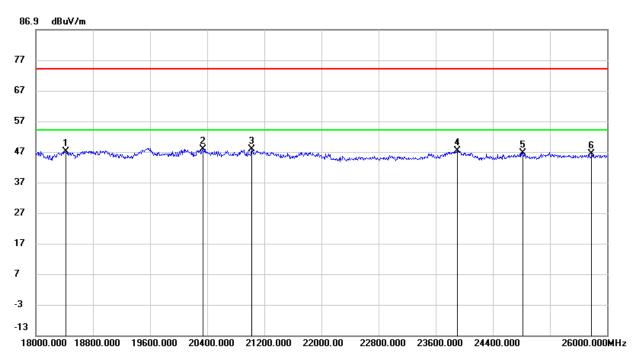
Note: All the test modes and combination have been considered. Only the worst data record in the report.



8.5. SPURIOUS EMISSIONS (18~26GHz)

8.5.1. 802.11b MODE

SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

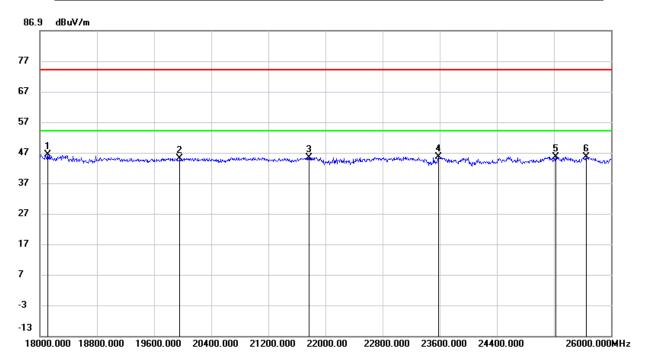


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 18424.000 | 51.41 | -4.38 | 47.03 | 74.00 | -26.97 | peak |
| 2 | 20336.000 | 52.78 | -4.91 | 47.87 | 74.00 | -26.13 | peak |
| 3 | 21024.000 | 53.12 | -5.30 | 47.82 | 74.00 | -26.18 | peak |
| 4 | 23904.000 | 51.54 | -4.25 | 47.29 | 74.00 | -26.71 | peak |
| 5 | 24824.000 | 48.27 | -1.69 | 46.58 | 74.00 | -27.42 | peak |
| 6 | 25784.000 | 47.73 | -1.49 | 46.24 | 74.00 | -27.76 | peak |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The preamplifier only effect to the above 18GHz signal and no filter added to the measurement chain.



SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 18112.000 | 50.35 | -4.10 | 46.25 | 74.00 | -27.75 | peak |
| 2 | 19960.000 | 49.52 | -4.37 | 45.15 | 74.00 | -28.85 | peak |
| 3 | 21768.000 | 51.17 | -5.79 | 45.38 | 74.00 | -28.62 | peak |
| 4 | 23584.000 | 50.15 | -4.71 | 45.44 | 74.00 | -28.56 | peak |
| 5 | 25224.000 | 46.65 | -1.17 | 45.48 | 74.00 | -28.52 | peak |
| 6 | 25648.000 | 47.12 | -1.53 | 45.59 | 74.00 | -28.41 | peak |

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The preamplifier only effect to the above 18GHz signal and no filter added to the measurement chain.

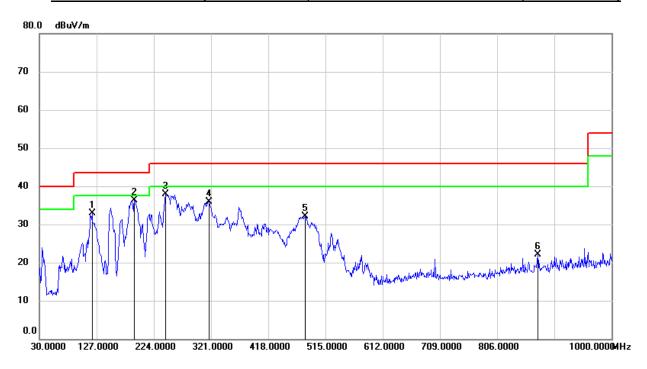
Note: All the test modes have been tested, only the worst data record in the report.



8.6. SPURIOUS EMISSIONS (0.03 ~ 1 GHz)

8.6.1. 802.11b MODE

SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



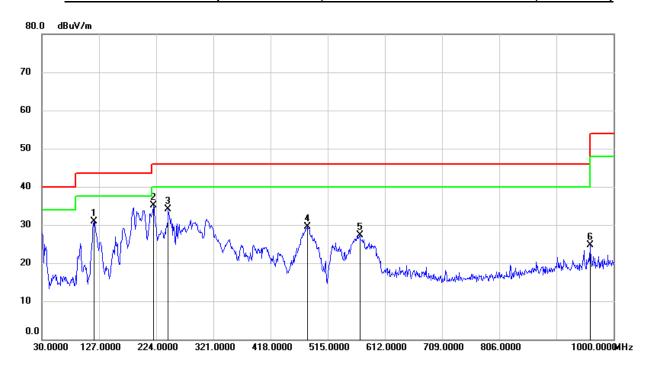
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 119.2400 | 53.08 | -20.10 | 32.98 | 43.50 | -10.52 | QP |
| 2 | 191.0200 | 53.14 | -16.75 | 36.39 | 43.50 | -7.11 | QP |
| 3 | 243.4000 | 57.20 | -19.38 | 37.82 | 46.00 | -8.18 | QP |
| 4 | 318.0900 | 51.03 | -15.16 | 35.87 | 46.00 | -10.13 | QP |
| 5 | 480.0800 | 44.05 | -11.98 | 32.07 | 46.00 | -13.93 | QP |
| 6 | 874.8700 | 28.34 | -6.17 | 22.17 | 46.00 | -23.83 | QP |

Note: 1. Result Level = Read Level + Correct Factor.

2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 118.2700 | 51.04 | -20.15 | 30.89 | 43.50 | -12.61 | QP |
| 2 | 219.1500 | 53.34 | -18.32 | 35.02 | 46.00 | -10.98 | QP |
| 3 | 244.3700 | 53.41 | -19.39 | 34.02 | 46.00 | -11.98 | QP |
| 4 | 480.0800 | 41.42 | -11.98 | 29.44 | 46.00 | -16.56 | QP |
| 5 | 569.3200 | 37.75 | -10.39 | 27.36 | 46.00 | -18.64 | QP |
| 6 | 960.2300 | 29.68 | -5.02 | 24.66 | 54.00 | -29.34 | QP |

Note: 1. Result Level = Read Level + Correct Factor.

2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Note: All the test modes have been tested, only the worst data record in the report.

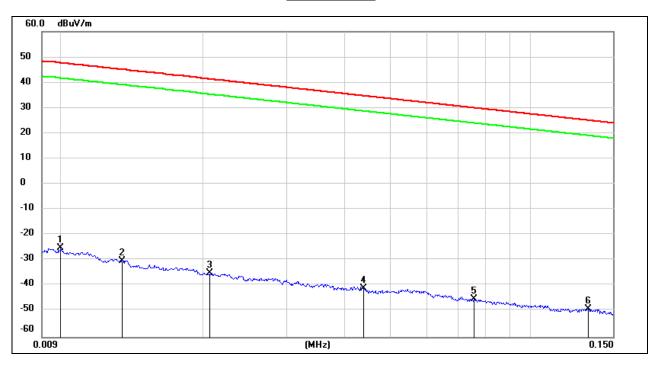


8.7. SPURIOUS EMISSIONS BELOW 30M

8.7.1. 802.11b MODE

SPURIOUS EMISSIONS (LOW CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)





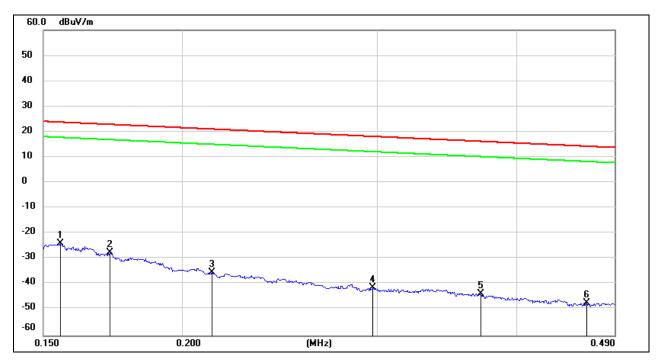
| No. | Frequency | Reading | Correct | FCC | FCC | ISED | ISED | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|----------|----------|--------|--------|
| | | | | Result | Limit | Result | Limit | | |
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dBuA/m) | (dBuA/m) | (dB) | |
| 1 | 0.0100 | 76.22 | -101.40 | -25.18 | 47.60 | -76.68 | -3.9 | -72.78 | peak |
| 2 | 0.0134 | 71.23 | -101.39 | -30.16 | 45.06 | -81.66 | -6.44 | -75.22 | peak |
| 3 | 0.0206 | 66.42 | -101.35 | -34.93 | 41.32 | -86.43 | -10.18 | -76.25 | peak |
| 4 | 0.0439 | 60.39 | -101.45 | -41.06 | 34.75 | -92.56 | -16.75 | -75.81 | peak |
| 5 | 0.0757 | 56.45 | -101.59 | -45.14 | 30.02 | -96.64 | -21.48 | -75.16 | peak |
| 6 | 0.1324 | 52.67 | -101.69 | -49.02 | 25.17 | -100.52 | -26.33 | -74.19 | peak |

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- $20Log10[120\pi] = dBuV/m- 51.5$).

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.





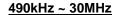


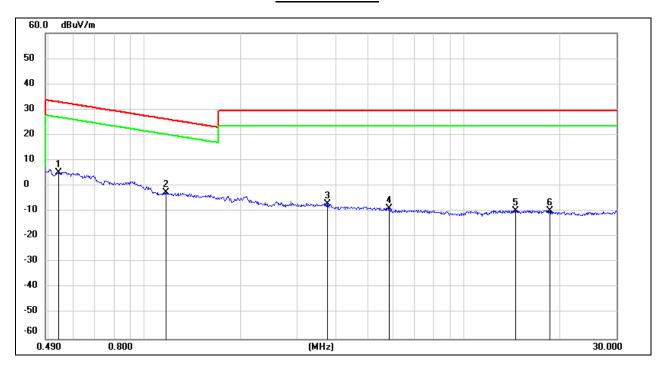
| No. | Frequency | Reading | Correct | FCC | FCC | ISED | ISED | Margin | Remark |
|-----|-----------|---------|---------|--------------------|-------------------|--------------------|-------------------|--------|--------|
| | (MHz) | (dBuV) | (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Result (dBuA/m) | Limit (dBuA/m) | (dB) | |
| 1 | 0.1554 | 77.77 | -101.65 | -23.88 | 23.77 | -75.38 | -27.73 | -47.65 | peak |
| 2 | 0.1720 | 74.19 | -101.67 | -27.48 | 22.90 | -78.98 | -28.6 | -50.38 | peak |
| 3 | 0.2127 | 66.45 | -101.74 | -35.29 | 21.04 | -86.79 | -30.46 | -56.33 | peak |
| 4 | 0.2972 | 60.66 | -101.85 | -41.19 | 18.14 | -92.69 | -33.36 | -59.33 | peak |
| 5 | 0.3714 | 58.28 | -101.93 | -43.65 | 16.20 | -95.15 | -35.3 | -59.85 | peak |
| 6 | 0.4627 | 54.72 | -102.03 | -47.31 | 14.30 | -98.81 | -37.2 | -61.61 | peak |

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- $20Log10[120\pi] = dBuV/m- 51.5$).

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.







| No. | Frequency | Reading | Correct | FCC | FCC | ISED | ISED | Margin | Remark |
|-----|-----------|---------|---------|----------|----------|----------|----------|--------|--------|
| | | | | Result | Limit | Result | Limit | | |
| | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dBuA/m) | (dBuA/m) | (dB) | |
| 1 | 0.5383 | 67.44 | -62.08 | 5.36 | 32.98 | -46.14 | -18.52 | -27.62 | peak |
| 2 | 1.1687 | 59.72 | -62.19 | -2.47 | 26.25 | -53.97 | -25.25 | -28.72 | peak |
| 3 | 3.7406 | 54.30 | -61.40 | -7.10 | 29.54 | -58.6 | -21.96 | -36.64 | peak |
| 4 | 5.8334 | 52.63 | -61.37 | -8.74 | 29.54 | -60.24 | -21.96 | -38.28 | peak |
| 5 | 14.5073 | 51.28 | -60.99 | -9.71 | 29.54 | -61.21 | -21.96 | -39.25 | peak |
| 6 | 18.6091 | 51.14 | -60.89 | -9.75 | 29.54 | -61.25 | -21.96 | -39.29 | peak |

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- $20Log10[120\pi] = dBuV/m- 51.5$).

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

Note: All the test modes have been tested, only the worst data record in the report.



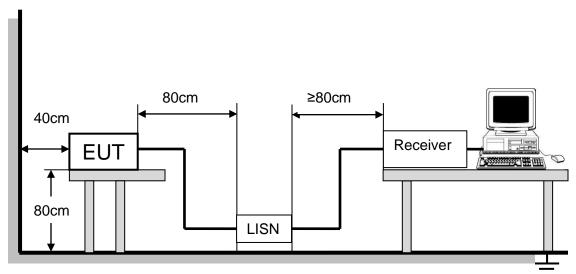
9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

| FREQUENCY (MHz) | Quasi-peak | Average |
|-----------------|------------|-----------|
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

TEST SETUP AND PROCEDURE



The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST ENVIRONMENT

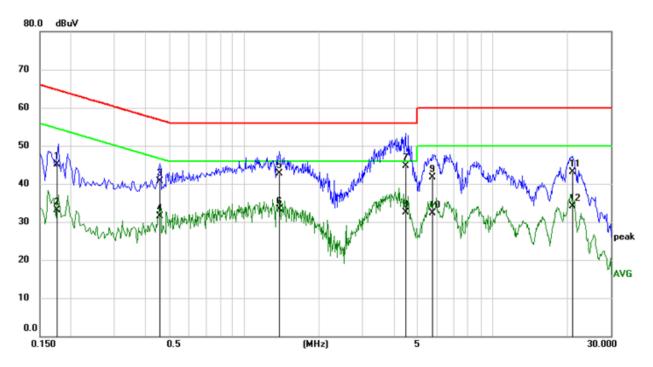
| Temperature | 24.1°C | Relative Humidity | 50% |
|---------------------|--------|-------------------|---------------|
| Atmosphere Pressure | 101kPa | Test Voltage | AC 120V, 60Hz |



TEST RESULTS

9.1. 802.11b MODE

LINE N RESULTS (LOW CHANNEL, WORST-CASE CONFIGURATION)



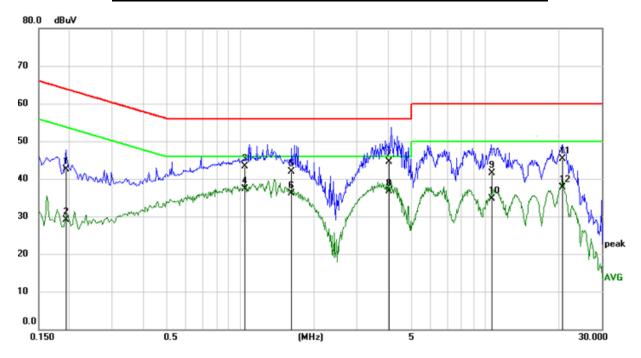
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1757 | 35.44 | 9.60 | 45.04 | 64.69 | -19.65 | QP |
| 2 | 0.1757 | 23.41 | 9.60 | 33.01 | 54.69 | -21.68 | AVG |
| 3 | 0.4573 | 31.10 | 9.60 | 40.70 | 56.74 | -16.04 | QP |
| 4 | 0.4573 | 21.86 | 9.60 | 31.46 | 46.74 | -15.28 | AVG |
| 5 | 1.3767 | 33.19 | 9.61 | 42.80 | 56.00 | -13.20 | QP |
| 6 | 1.3767 | 23.71 | 9.61 | 33.32 | 46.00 | -12.68 | AVG |
| 7 | 4.4341 | 35.11 | 9.66 | 44.77 | 56.00 | -11.23 | QP |
| 8 | 4.4341 | 22.79 | 9.66 | 32.45 | 46.00 | -13.55 | AVG |
| 9 | 5.7318 | 32.04 | 9.69 | 41.73 | 60.00 | -18.27 | QP |
| 10 | 5.7318 | 22.67 | 9.69 | 32.36 | 50.00 | -17.64 | AVG |
| 11 | 21.0306 | 32.94 | 10.21 | 43.15 | 60.00 | -16.85 | QP |
| 12 | 21.0306 | 23.85 | 10.21 | 34.06 | 50.00 | -15.94 | AVG |

Note: 1. Result = Reading +Correct Factor.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz-150 kHz), 9 kHz (150 kHz-30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.



LINE L RESULTS (LOW CHANNEL, WORST-CASE CONFIGURATION)



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1924 | 32.90 | 9.60 | 42.50 | 63.93 | -21.43 | QP |
| 2 | 0.1924 | 19.60 | 9.60 | 29.20 | 53.93 | -24.73 | AVG |
| 3 | 1.0443 | 33.60 | 9.61 | 43.21 | 56.00 | -12.79 | QP |
| 4 | 1.0443 | 27.70 | 9.61 | 37.31 | 46.00 | -8.69 | AVG |
| 5 | 1.6226 | 32.29 | 9.62 | 41.91 | 56.00 | -14.09 | QP |
| 6 | 1.6226 | 26.54 | 9.62 | 36.16 | 46.00 | -9.84 | AVG |
| 7 | 4.0473 | 34.87 | 9.66 | 44.53 | 56.00 | -11.47 | QP |
| 8 | 4.0473 | 27.07 | 9.66 | 36.73 | 46.00 | -9.27 | AVG |
| 9 | 10.6359 | 31.68 | 9.75 | 41.43 | 60.00 | -18.57 | QP |
| 10 | 10.6359 | 24.86 | 9.75 | 34.61 | 50.00 | -15.39 | AVG |
| 11 | 20.8013 | 35.25 | 10.09 | 45.34 | 60.00 | -14.66 | QP |
| 12 | 20.8013 | 27.70 | 10.09 | 37.79 | 50.00 | -12.21 | AVG |

Note: 1. Result = Reading +Correct Factor.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz-150 kHz), 9 kHz (150 kHz-30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

Note: All the test modes have been tested, only the worst data record in the report.



ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

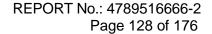
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Complies



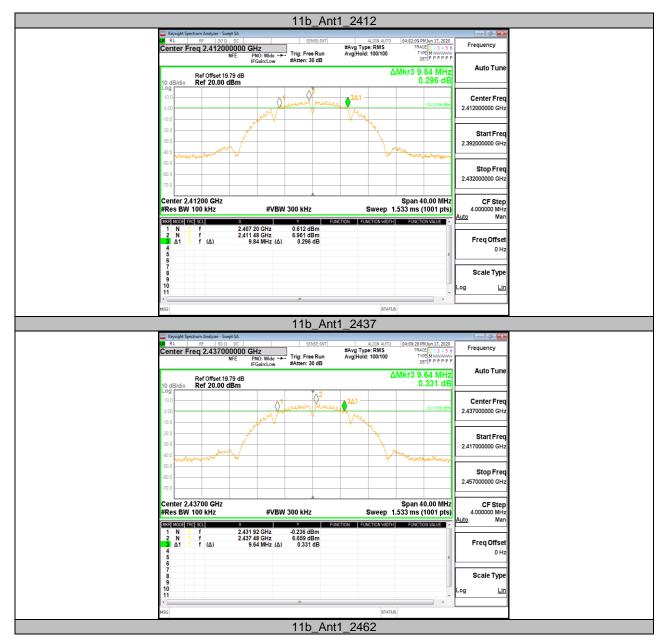


10.1. Appendix A: DTS Bandwidth 10.1.1. Test Result

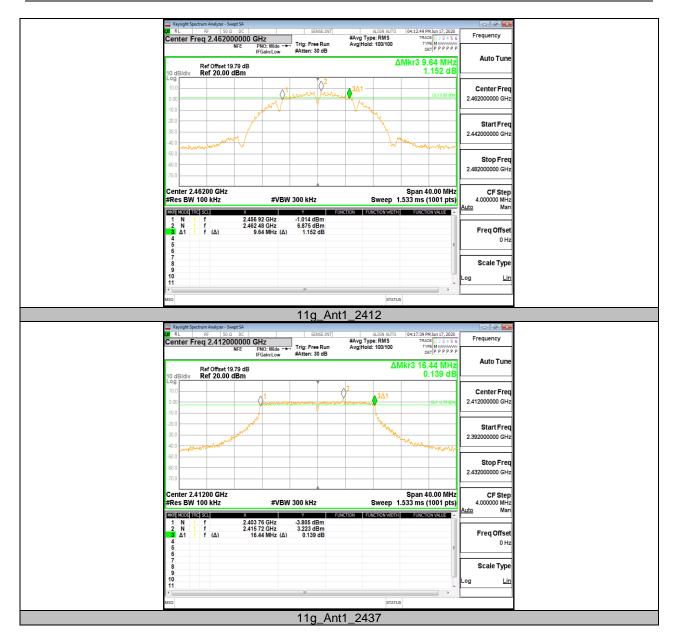
| Test Mode | Antenna | Channel | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------------|----------|----------|------------|---------|
| | | 2412 | 9.840 | 2407.200 | 2417.040 | 0.5 | PASS |
| 11b | Ant1 | 2437 | 9.640 | 2431.920 | 2441.560 | 0.5 | PASS |
| | | 2462 | 9.640 | 2456.920 | 2466.560 | 0.5 | PASS |
| | | 2412 | 16.440 | 2403.760 | 2420.200 | 0.5 | PASS |
| 11g | Ant1 | 2437 | 16.400 | 2428.800 | 2445.200 | 0.5 | PASS |
| | | 2462 | 16.400 | 2453.800 | 2470.200 | 0.5 | PASS |
| | | 2412 | 17.360 | 2403.200 | 2420.560 | 0.5 | PASS |
| 11n20SISO | Ant1 | 2437 | 17.640 | 2428.160 | 2445.800 | 0.5 | PASS |
| | | 2462 | 17.600 | 2453.160 | 2470.760 | 0.5 | PASS |
| | | 2422 | 35.200 | 2404.320 | 2439.520 | 0.5 | PASS |
| 11n40SISO | Ant1 | 2437 | 35.280 | 2419.320 | 2454.600 | 0.5 | PASS |
| | | 2452 | 34.720 | 2434,400 | 2469.120 | 0.5 | PASS |



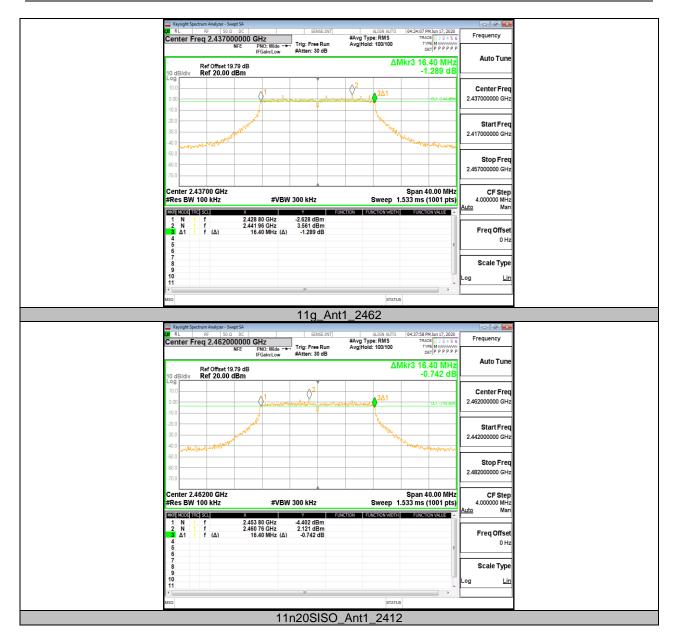
10.1.2. Test Graphs



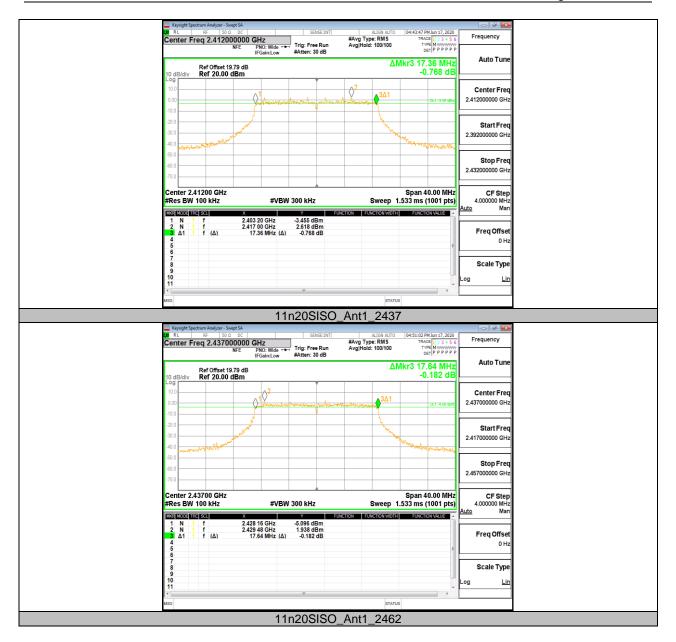




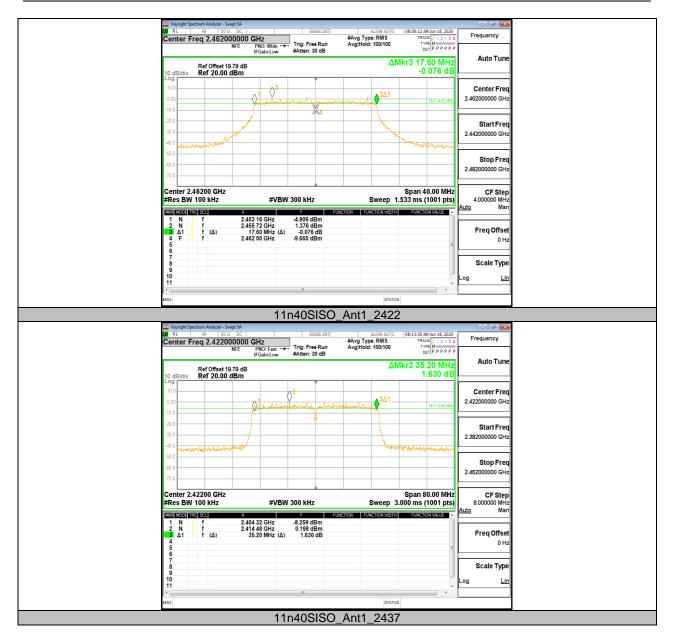


















10.2. Appendix B: Occupied Channel Bandwidth 10.2.1. Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|----------|----------|------------|---------|
| | | 2412 | 14.880 | 2404.559 | 2419.439 | | PASS |
| 11b | Ant1 | 2437 | 14.888 | 2429.546 | 2444.434 | | PASS |
| | | 2462 | 14.875 | 2454.540 | 2469.415 | | PASS |
| 11g | Ant1 | 2412 | 17.311 | 2403.321 | 2420.632 | | PASS |
| | | 2437 | 17.168 | 2428.408 | 2445.576 | | PASS |
| | | 2462 | 17.269 | 2453.266 | 2470.535 | | PASS |
| | | 2412 | 18.129 | 2402.971 | 2421.100 | | PASS |
| 11n20SISO | Ant1 | 2437 | 18.116 | 2427.944 | 2446.060 | | PASS |
| | | 2462 | 18.129 | 2452.886 | 2471.015 | | PASS |
| | | 2422 | 35.787 | 2404.046 | 2439.833 | | PASS |
| 11n40SISO | Ant1 | 2437 | 35.824 | 2419.019 | 2454.843 | | PASS |
| | | 2452 | 35.804 | 2434.041 | 2469.845 | | PASS |