



FCC Test Report

Equipment : AC3000 Tri-Band Wireless Gigabit Dual-WAN VPN SMB Router
Brand Name : TRENDnet
Model No. : TEW-829DRU
FCC ID : XU8TEW829DRU
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant : TRENDnet, Inc.
20675 Manhattan, Place, Torrance, CA, 90501

The product sample received on Dec. 20, 2017 and completely tested on Feb. 09, 2018. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.


Cliff Chang
SPORTON INTERNATIONAL INC.





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PHOTOGRAPHS OF EUT V01



Summary of Test Result

| Conformance Test Specifications | | | | |
|---------------------------------|------------------|---|-----------------------------------|----------|
| Report Clause | Ref. Std. Clause | Description | Limit | Result |
| 1.1.2 | 15.203 | Antenna Requirement | FCC 15.203 | Complied |
| 3.1 | 15.207 | AC Power-line Conducted Emissions | FCC 15.207 | Complied |
| 3.2 | 15.247(a) | DTS Bandwidth | ≥500kHz | Complied |
| 3.3 | 15.247(b) | Maximum Conducted Output Power | Power [dBm]:30 | Complied |
| 3.4 | 15.247(e) | Power Spectral Density | PSD [dBm/3kHz]:8 | Complied |
| 3.5 | 15.247(d) | Emissions in Non-restricted Frequency Bands | Non-Restricted Bands: > 30 dBc | Complied |
| 3.6 | 15.247(d) | Emissions in Restricted Frequency Bands | Restricted Bands: FCC 15.209 | Complied |



1 General Description

1.1 Information

1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|-----------------------|------------------|---------------------|----------------|
| 2400-2483.5 | b, g, n (HT20) | 2412-2462 | 1-11 [11] |
| 2400-2483.5 | n (HT40) | 2422-2452 | 3-9 [7] |

| Band | Mode | BWch (MHz) | Nant |
|---------------|-----------------|------------|------|
| 2.4-2.4835GHz | 802.11b | 20 | 2TX |
| 2.4-2.4835GHz | 802.11g | 20 | 2TX |
| 2.4-2.4835GHz | 802.11n HT20 | 20 | 2TX |
| 2.4-2.4835GHz | 802.11n HT20-BF | 20 | 2TX |
| 2.4-2.4835GHz | 802.11n HT40 | 40 | 2TX |
| 2.4-2.4835GHz | 802.11n HT40-BF | 40 | 2TX |

Note:

- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

| Ant. | 2.4G Port | 5G B1 Port | 5G B4 Port | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-----------|------------|------------|--------|---------------|----------------|--------------|------------|
| 1 | 1 | - | 1 | WHA YU | C732-510011-A | Dipole Antenna | Reversed-SMA | Note1 |
| 2 | 2 | - | 2 | WHA YU | C732-510011-A | Dipole Antenna | Reversed-SMA | |
| 3 | - | 1 | - | WHA YU | C732-510011-A | Dipole Antenna | Reversed-SMA | |
| 4 | - | 2 | - | WHA YU | C732-510011-A | Dipole Antenna | Reversed-SMA | |
| 5 | - | 3 | - | WHA YU | C732-510011-A | Dipole Antenna | Reversed-SMA | |
| 6 | - | 4 | - | WHA YU | C732-510011-A | Dipole Antenna | Reversed-SMA | |

Note 1:

| Ant. | 2.4G Port | 5G B1 Port | 5G B4 Port | Gain (dBi) | | | Cable loss (dB) | | | True Gain (dBi) | | |
|------|-----------|------------|------------|------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| | | | | 2.4G | 5G B1 | 5G B4 | 2.4G | 5G B1 | 5G B4 | 2.4G | 5G B1 | 5G B4 |
| 1 | 1 | - | 1 | 2.9 | 4.4 | 4.4 | 2.5 | 2.5 | 2.5 | 0.4 | 1.9 | 1.9 |
| 2 | 2 | - | 2 | 2.9 | 4.4 | 4.4 | 2.5 | 2.5 | 2.5 | 0.4 | 1.9 | 1.9 |
| 3 | - | 1 | - | 2.9 | 4.4 | 4.4 | 2.5 | 2.5 | 2.5 | 0.4 | 1.9 | 1.9 |
| 4 | - | 2 | - | 2.9 | 4.4 | 4.4 | 2.5 | 2.5 | 2.5 | 0.4 | 1.9 | 1.9 |
| 5 | - | 3 | - | 2.9 | 4.4 | 4.4 | 2.5 | 2.5 | 2.5 | 0.4 | 1.9 | 1.9 |
| 6 | - | 4 | - | 2.9 | 4.4 | 4.4 | 2.5 | 2.5 | 2.5 | 0.4 | 1.9 | 1.9 |

Note 2: B1=Band 1, B4=Band 4, Connect to reverse SMA to execute the conducted measurement.

Note 3: The EUT has six antennas.

<For 2.4GHz Band / For Radio 1>

For IEEE 802.11b/g/n mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<For 5GHz Band 1 / For Radio 2>

For IEEE 802.11a/n/ac mode (4TX/4RX)

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

<For 5GHz Band 4 / For Radio 3>

For IEEE 802.11a/n/ac mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.



1.1.3 Mode Test Duty Cycle

| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|-----------------|-------|---------|----------------|----------------|
| 802.11b | 0.992 | 0.035 | n/a (DC>=0.98) | n/a (DC>=0.98) |
| 802.11g | 0.963 | 0.164 | 2.068m | 1k |
| 802.11n HT20 | 0.988 | 0.052 | n/a (DC>=0.98) | n/a (DC>=0.98) |
| 802.11n HT20-BF | 0.93 | 0.315 | 1.751m | 1k |
| 802.11n HT40 | 0.967 | 0.146 | 2.43m | 1k |
| 802.11n HT40-BF | 0.91 | 0.41 | 1.75m | 1k |

1.1.4 EUT Operational Condition

| | | | |
|------------------------------|--|--|--|
| EUT Power Type | From Power Adapter | | |
| Beamforming Function | <input checked="" type="checkbox"/> | With beamforming function for 802.11n in 2.4GHz/5GHz and 802.11ac in 5GHz. | <input type="checkbox"/> Without beamforming |
| Test Software Version | For non-beamforming mode: QRCT Version3.0.210.0 For beamforming mode: PUTTY.EXE | | |

1.1.5 Table for Radio type

| Radio No. | function | Chip brand Name |
|-----------|-------------|-----------------|
| Radio 1 | 2.4GHz | IPQ4019 |
| Radio 2 | 5GHz Band 1 | QCA9984 |
| Radio 3 | 5GHz Band 4 | IPQ4019 |



1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ FCC KDB 558074 D01 v04
- ◆ FCC KDB 662911 D01 v02r01
- ◆ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

| Testing Location | | |
|-------------------------------------|--------|---|
| <input type="checkbox"/> | HWA YA | ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055 |
| <input checked="" type="checkbox"/> | JHUBEI | ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085 |

| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date |
|----------------|---------------|---|------------------|-------------------------------|
| RF Conducted | TH01-CB | Stim Sung & Brian Sun & Paul Chen & Ron Huang | 25°C / 55% | Jan. 05, 2018 ~ Feb. 09, 2018 |
| Radiated | 03CH01-CB | Jay Luo & Zero Chen & Cola Fan & Eason Chen | 22°C / 54% | Dec. 29, 2017 ~ Feb. 09, 2018 |
| AC Conduction | CO01-CB | Max Lin | 24°C / 56% | Jan. 03, 2018 |

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Test Items | Uncertainty | Remark |
|--------------------------------------|------------------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz) | 3.2 dB | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.6 dB | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz) | 3.7 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 3.5 dB | Confidence levels of 95% |
| Conducted Emission | 1.7 dB | Confidence levels of 95% |
| Output Power Measurement | 1.33 dB | Confidence levels of 95% |
| Power Density Measurement | 1.27 dB | Confidence levels of 95% |
| Bandwidth Measurement | 9.74 x10 ⁻⁸ | Confidence levels of 95% |



2 Test Configuration of EUT

2.1 Test Channel Mode

| Mode | Power Setting |
|------------------------------|---------------|
| 802.11b_Nss1,(1Mbps)_2TX | - |
| 2412MHz | 21 |
| 2417MHz | 21 |
| 2422MHz | 21.5 |
| 2427MHz | 21.5 |
| 2432MHz | 23.5 |
| 2437MHz | 23.5 |
| 2442MHz | 23.5 |
| 2447MHz | 22.5 |
| 2452MHz | 22.5 |
| 2457MHz | 22 |
| 2462MHz | 19.5 |
| 802.11g_Nss1,(6Mbps)_2TX | - |
| 2412MHz | 15 |
| 2417MHz | 17 |
| 2422MHz | 18.5 |
| 2427MHz | 20 |
| 2432MHz | 21.5 |
| 2437MHz | 21.5 |
| 2442MHz | 20.5 |
| 2447MHz | 20 |
| 2452MHz | 18 |
| 2457MHz | 16 |
| 2462MHz | 14 |
| 802.11n HT20_Nss1,(MCS0)_2TX | - |
| 2412MHz | 15 |
| 2417MHz | 17 |
| 2422MHz | 18.5 |
| 2427MHz | 19.5 |
| 2432MHz | 21 |
| 2437MHz | 21.5 |
| 2442MHz | 20 |
| 2447MHz | 19.5 |
| 2452MHz | 17 |
| 2457MHz | 16 |
| 2462MHz | 12.5 |
| 802.11n HT40_Nss1,(MCS0)_2TX | - |
| 2422MHz | 13.5 |



| Mode | Power Setting |
|---------------------------------|---------------|
| 2427MHz | 14 |
| 2432MHz | 14.5 |
| 2437MHz | 15 |
| 2442MHz | 13 |
| 2447MHz | 12 |
| 2452MHz | 12 |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX | - |
| 2412MHz | 16 |
| 2417MHz | 19 |
| 2422MHz | 19 |
| 2427MHz | 21 |
| 2432MHz | 22.5 |
| 2437MHz | 22.5 |
| 2447MHz | 22.5 |
| 2452MHz | 22.5 |
| 2457MHz | 20 |
| 2462MHz | 19 |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX | - |
| 2422MHz | 16 |
| 2427MHz | 15 |
| 2432MHz | 16 |
| 2437MHz | 18.5 |
| 2442MHz | 18 |
| 2447MHz | 17.5 |
| 2452MHz | 16.5 |

Note:

- ♦ There are two modes of EUT for 802.11n in 2.4GHz/5GHz and 802.11ac in 5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.

2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|--|--|
| Tests Item | AC power-line conducted emissions |
| Condition | AC power-line conducted measurement for line and neutral |
| Operating Mode | Normal Link |
| 1 | EUT with Adapter 1 |
| 2 | EUT with Adapter 2 |
| Mode 1 generated the worst test result, so it was recorded in this report. | |

| The Worst Case Mode for Following Conformance Tests | |
|---|--|
| Tests Item | DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands |
| Test Condition | Conducted measurement at transmit chains |
| 1 | EUT with Adapter 1 |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| Tests Item | Emissions in Restricted Frequency Bands |
| Test Condition | Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| Operating Mode < 1GHz | Normal Link |
| 1 | EUT with Adapter 1 in Z axis |
| 2 | EUT with Adapter 1 in X axis |
| Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode. | |
| 3 | EUT with Adapter 2 in Z axis |
| Mode 1 generated the worst test result, so it was recorded in this report. | |
| Operating Mode > 1GHz | CTX The EUT was performed at Z axis and X axis position for Radiated emission above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration. |
| 1 | EUT with Adapter 1 in Z axis |



| The Worst Case Mode for Following Conformance Tests | |
|--|---|
| Tests Item | Simultaneous Transmission Analysis - Radiated Emission Co-location |
| Test Condition | Radiated measurement |
| Operating Mode | Normal Link |
| | The EUT was performed at Z axis and X axis position for Radiated emission above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration. |
| 1 | EUT in Z axis - Radio 1 (WLAN 2.4GHz) + Radio 3 (WLAN 5GHz Band 4) |
| Refer to Appendix G for Radiated Emission Co-location. | |

| The Worst Case Mode for Following Conformance Tests | |
|--|---|
| Tests Item | Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation |
| Operating Mode | |
| 1 | EUT in Z axis - Radio 1 (WLAN 2.4GHz) + Radio 2 (WLAN 5GHz Band 1) + Radio 3 (WLAN 5GHz Band 4) |
| Refer to Sporton Test Report No.: FA7D2029 for Co-location RF Exposure Evaluation. | |

Note: The console port can not be used by end user. It is generally used for updating FW by applicant.

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under PUTTY.EXE.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

| Accessories | | | |
|-------------------------------------|------------|------------------|--|
| Equipment Name | Brand Name | Model Name | Rating |
| Adapter 1 | AMIGO | AMS157-1203000FU | Input: 100-240V~50/60Hz, 1A Output: 12V, 3.0A |
| Adapter 2 | UMEC | UP0361K-12PA | Input: 100-240V~50/60Hz, 1A MAX Output: +12V, 3A, 36W MAX |
| Other | | | |
| Bracket *2 | | | |
| Console cable*1, Non-Shielded, 1.5m | | | |
| RJ-45 cable*1, Non-Shielded, 1.5m | | | |

Note1: The power adapter does not affect the test result of RF tests, so DTS Bandwidth, Maximum Conducted Output Power, Power Spectral Density, Emissions in Non-restricted Frequency Bands and Radiated measurement above 1GHz only test adapter 1 and recorded in this report.

Note2: All adapters test for AC power-line conducted emissions and Radiated measurement below 1GHz.

2.5 Support Equipment

For Test Site No: CO01-CB

| Support Equipment | | | | |
|-------------------|---------------|------------|--------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | NB*6 | DELL | E6430 | DoC |
| 2 | Flash disk3.0 | Transcend | JetFlash-700 | DoC |

For Test Site No: 03CH01-CB (below 1GHz)

| Support Equipment | | | | |
|-------------------|---------------|------------|--------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | NB*4 | DELL | E4300 | DoC |
| 2 | NB*2 | Apple | Mac Book | DoC |
| 3 | Flash disk3.0 | Transcend | JetFlash-700 | DoC |



For Test Site No: 03CH01-CB (above 1GHz)
For non-beamforming mode

| Support Equipment | | | | |
|-------------------|-----------|------------|------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | NB | DELL | E4300 | DoC |

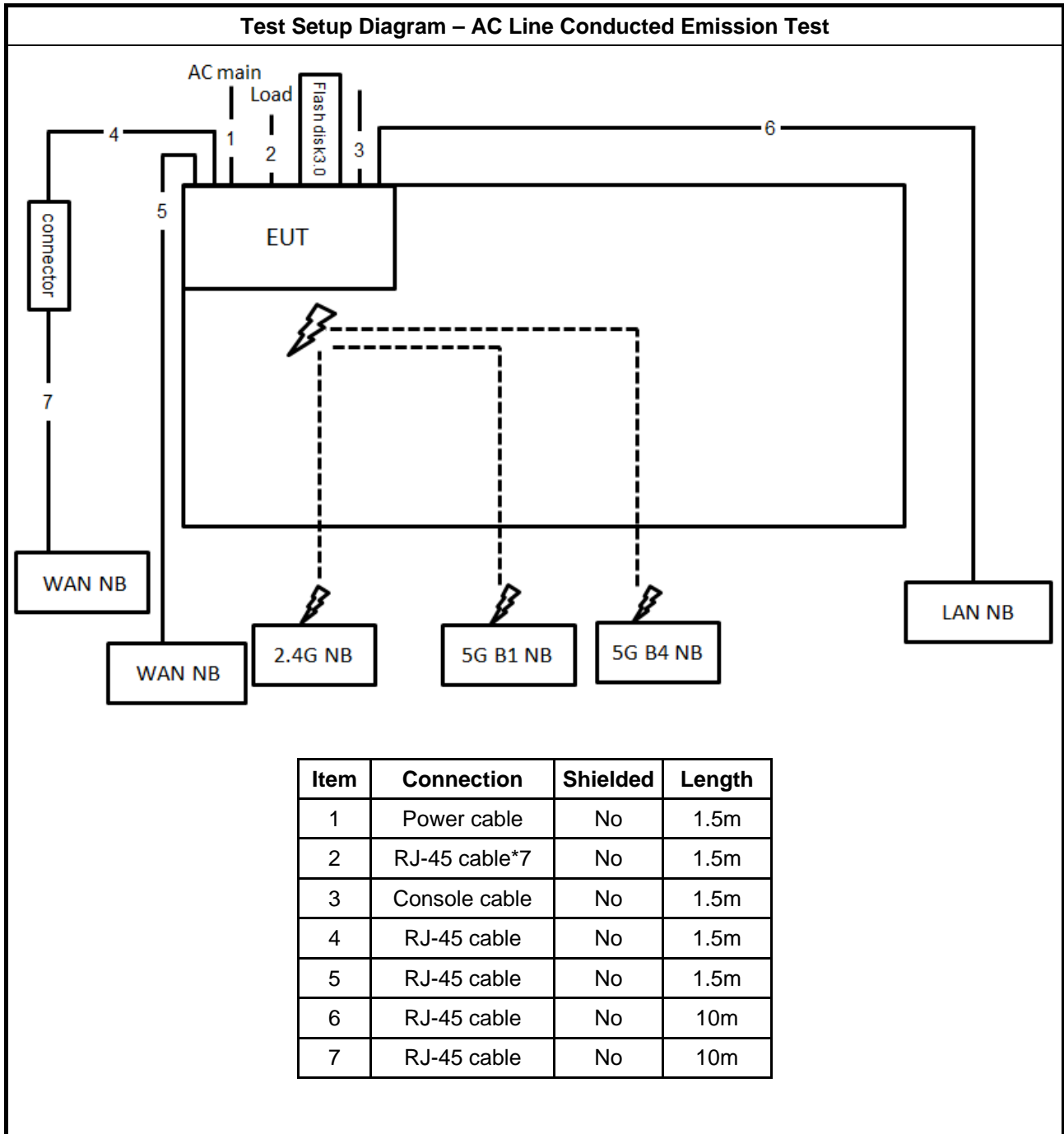
For beamforming mode

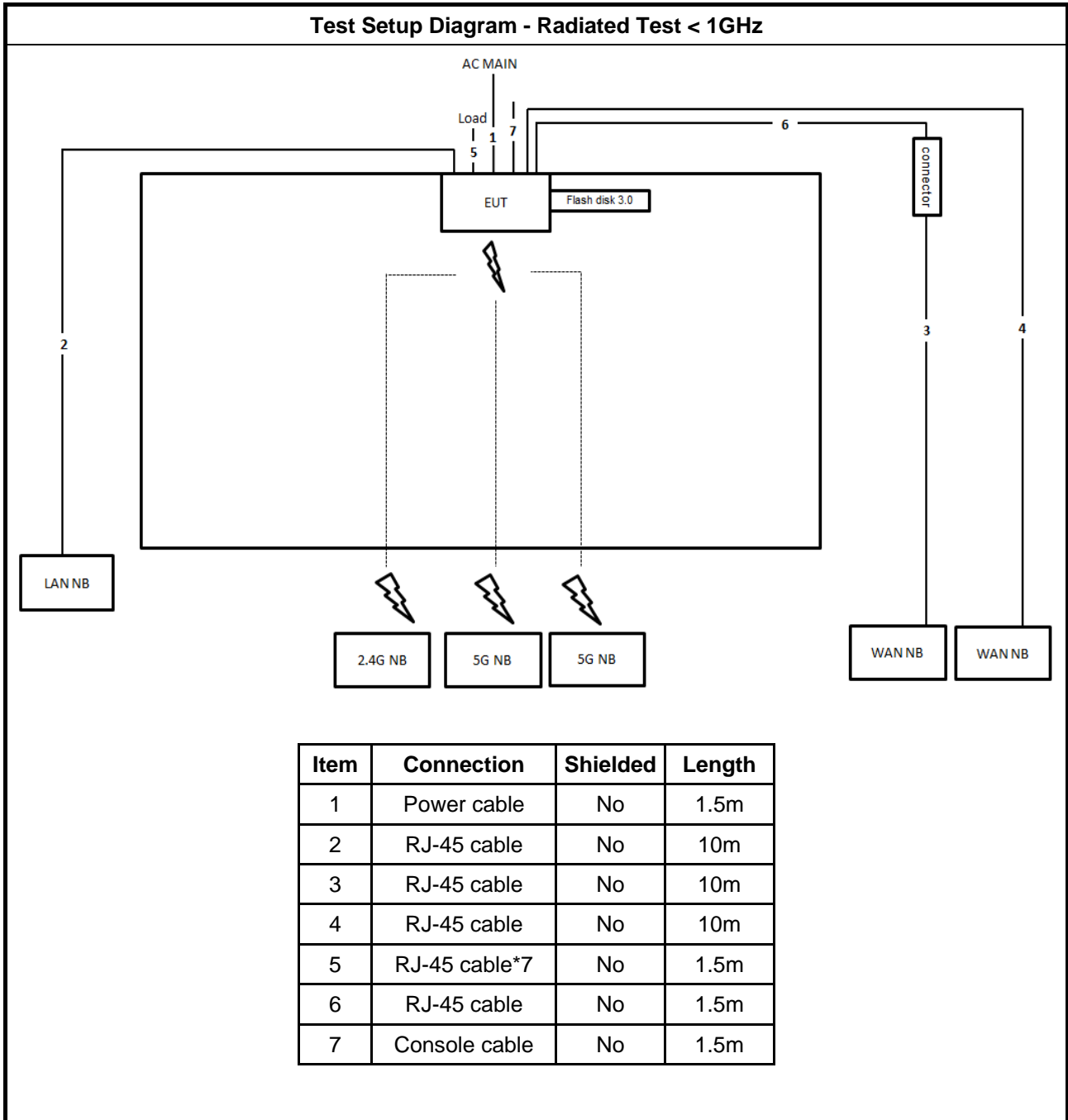
| Support Equipment | | | | |
|-------------------|-----------|------------|------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | NB*2 | DELL | E4300 | DoC |
| 2 | RX Device | TRENDnet | WRT-C92Q | N/A |

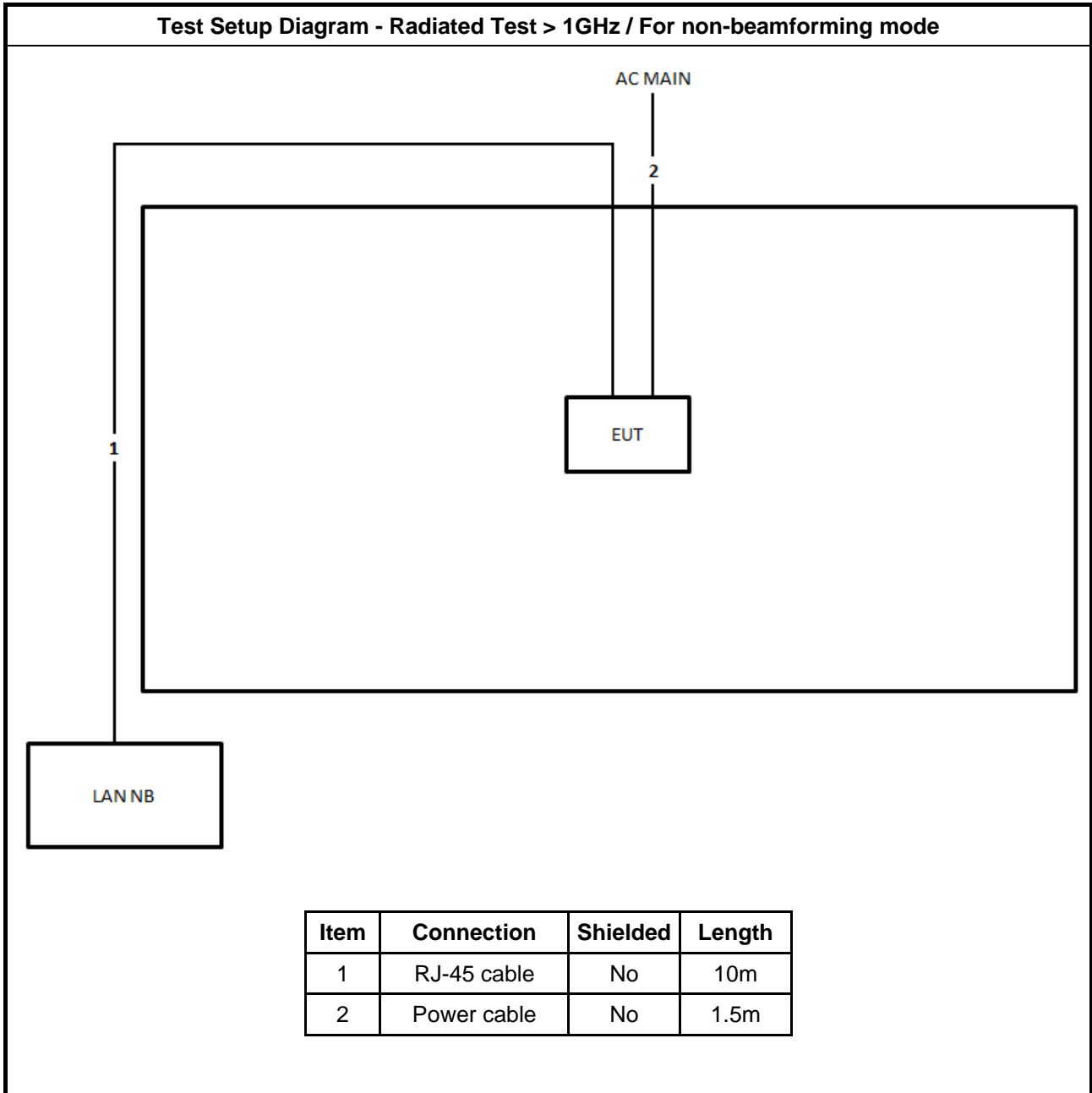
For Test Site No: TH01-CB

| Support Equipment | | | | |
|-------------------|-----------|------------|------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | NB | DELL | E4300 | DoC |

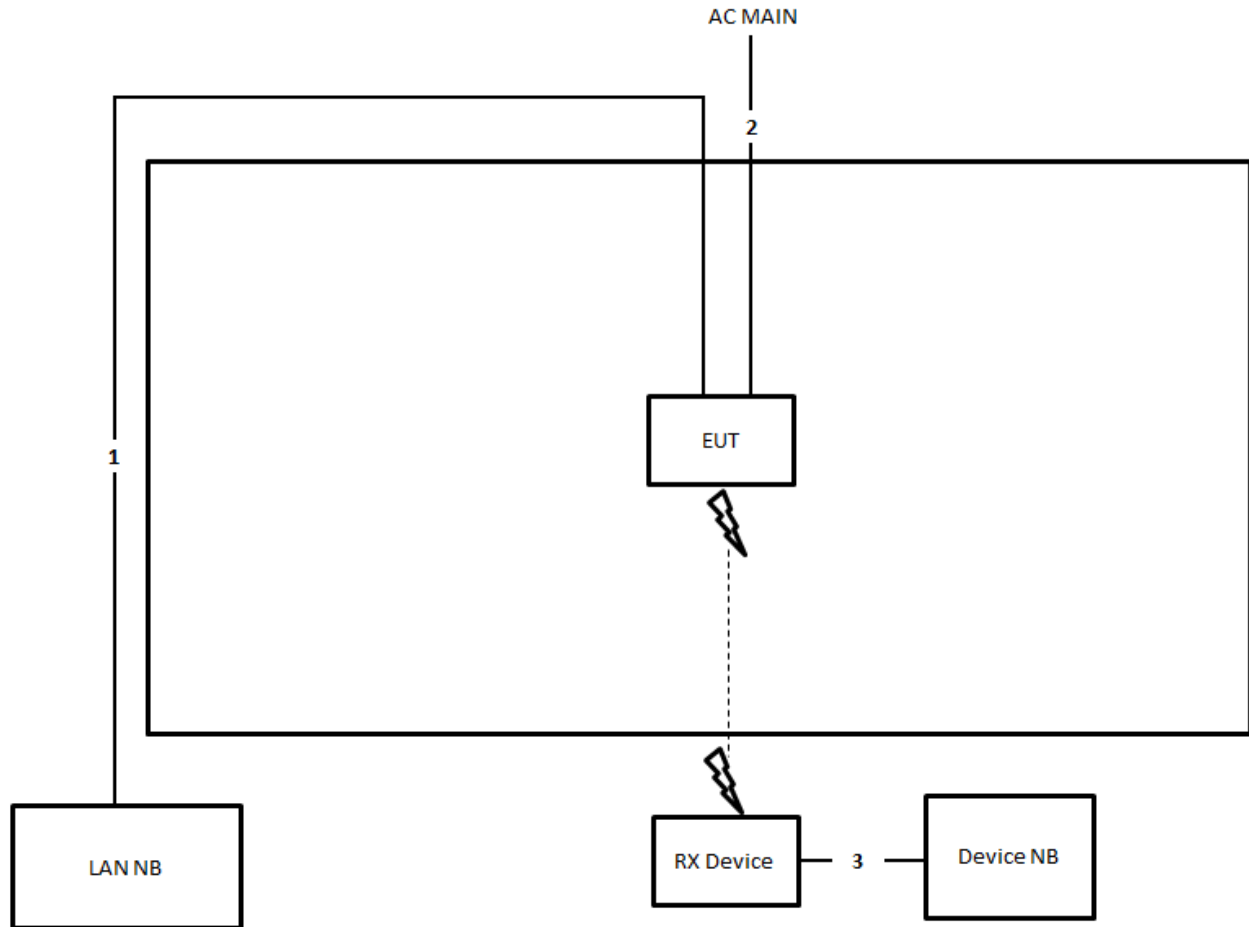
2.6 Test Setup Diagram







Test Setup Diagram - Radiated Test > 1GHz / For beamforming mode



| Item | Connection | Shielded | Length |
|------|-------------|----------|--------|
| 1 | RJ-45 cable | No | 10m |
| 2 | Power cable | No | 1.5m |
| 3 | RJ-45 cable | No | 10m |



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

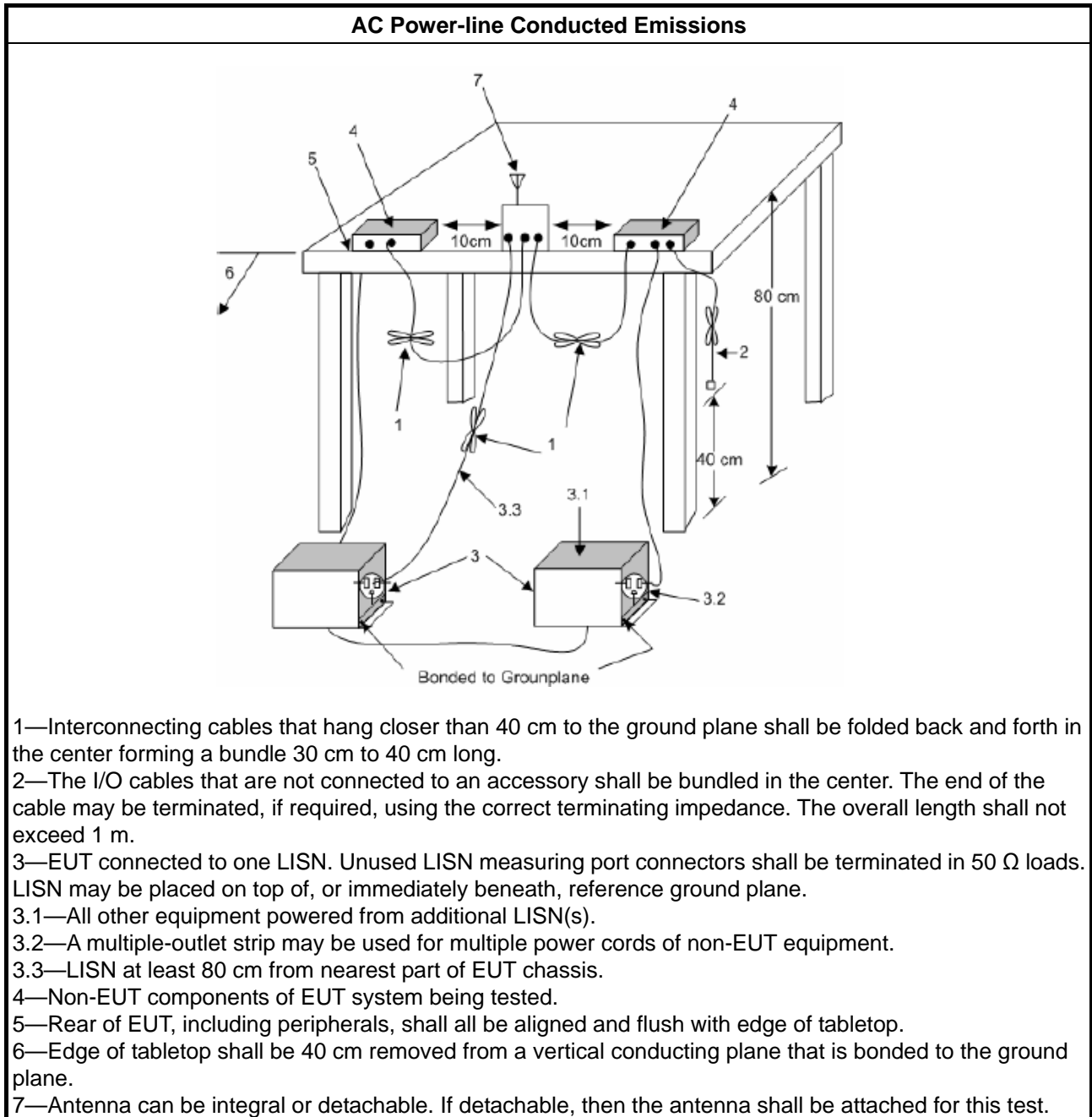
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

| Test Method |
|--|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit |
|---|
| Systems using digital modulation techniques: |
| <ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz. |

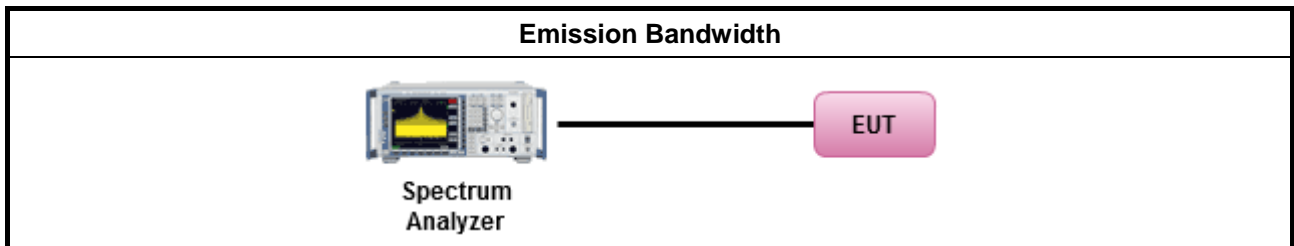
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

| Test Method |
|--|
| <ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: |
| <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement. |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement. |
| <input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit | |
|--|---|
| | <ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W) |
| | <ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm |
| | <ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm |
| | <ul style="list-style-type: none"> ▪ Smart antenna system (SAS): |
| | <ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm |
| | <ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm |
| | <ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm |
| <p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p> | |

3.3.2 Measuring Instruments

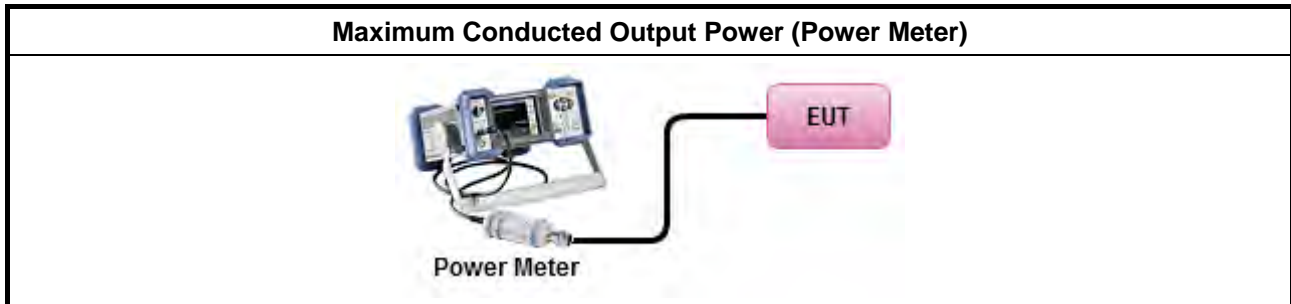
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

| Test Method | |
|---|--|
| <ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power | |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method). |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW) |
| <ul style="list-style-type: none"> ▪ Maximum Conducted Output Power | |
| [duty cycle ≥ 98% or external video / power trigger] | |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging). |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed) |
| duty cycle < 98% and average over on/off periods with duty factor | |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging). |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed) |
| RF power meter and average over on/off periods with duty factor or gated trigger | |
| | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter). |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 9.1.2 PKPM1 Peak power meter method. |
| <ul style="list-style-type: none"> ▪ For conducted measurement. | |
| | <ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. |
| | <ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ |

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

| Power Spectral Density Limit |
|---|
| <ul style="list-style-type: none"> ▪ Power Spectral Density (PSD) \leq 8 dBm/3kHz |

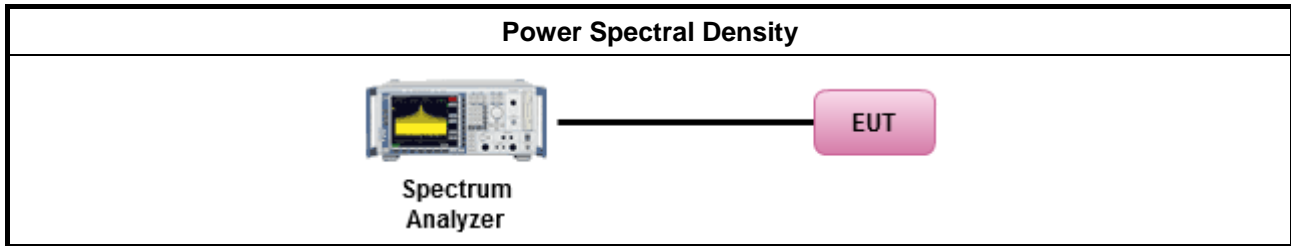
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

| Test Method |
|--|
| <ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option). |
| <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak). [duty cycle \geq 98% or external video / power trigger] |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.3 Method AVGPSD-1 (spectral trace averaging). |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.4 Method AVGPSD-2 (slow sweep speed) duty cycle < 98% and average over on/off periods with duty factor |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.5 Method AVGPSD-1 Alt (spectral trace averaging). |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed) |
| <ul style="list-style-type: none"> ▪ For conducted measurement. |
| <ul style="list-style-type: none"> ▪ If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. |

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

| Un-restricted Band Emissions Limit | |
|------------------------------------|------------|
| RF output power procedure | Limit (dB) |
| Peak output power procedure | 20 |
| Average output power procedure | 30 |

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

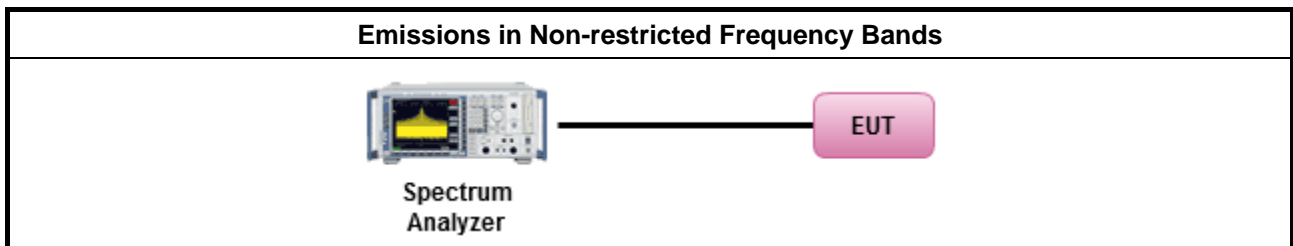
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

| Test Method |
|--|
| <ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands. |

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

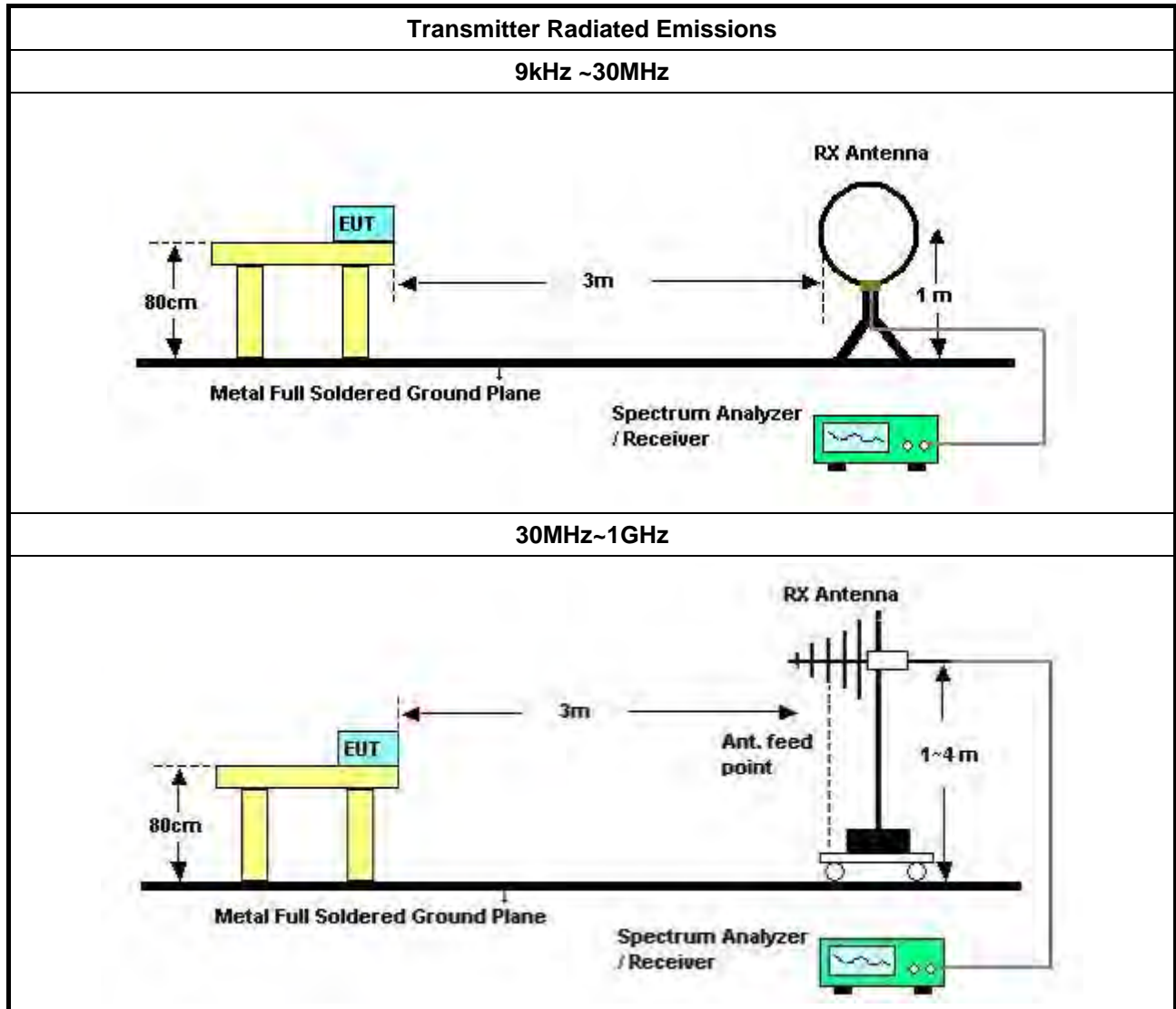
3.6.2 Measuring Instruments

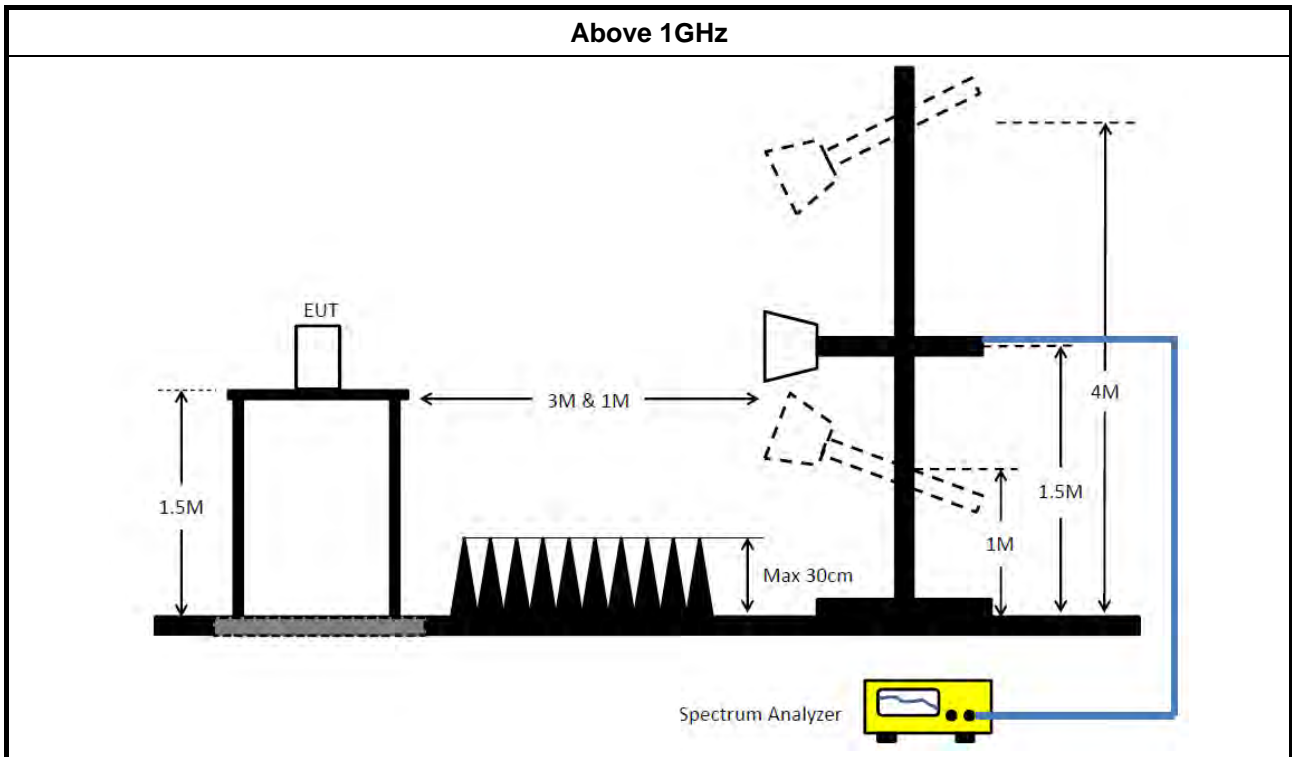
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

| Test Method | |
|--|--|
| <ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. | |
| <ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. | |
| <ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: | |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands. |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$) |
| | <input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor). |
| | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$). |
| | <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time. |
| | <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions. |
| | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.4 measurement procedure peak limit. |
| <ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: | |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below. |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements. |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz). |
| <ul style="list-style-type: none"> ▪ For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2. | |
| | <ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB |
| | <ul style="list-style-type: none"> ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred. |

3.6.4 Test Setup





3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F



4 Test Equipment and Calibration Data

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|-----------------------------------|--------------|-------------------|------------------|-----------------|------------------|----------------------|-----------------------|
| EMI Receiver | Agilent | N9038A | My52260123 | 9kHz ~ 8.45GHz | Jan. 23, 2017 | Jan. 22, 2018 | Conduction (CO01-CB) |
| LISN | F.C.C. | FCC-LISN-50-16-2 | 04083 | 150kHz ~ 100MHz | Dec. 20, 2017 | Dec. 19, 2018 | Conduction (CO01-CB) |
| LISN | Schwarzbeck | NSLK 8127 | 8127647 | 9kHz ~ 30MHz | Dec. 29, 2017 | Dec. 28, 2018 | Conduction (CO01-CB) |
| COND Cable | Woken | Cable | 01 | 150kHz ~ 30MHz | May 23, 2017 | May 22, 2018 | Conduction (CO01-CB) |
| Software | Audix | E3 | 6.120210n | - | N.C.R. | N.C.R. | Conduction (CO01-CB) |
| BILOG ANTENNA with 6dB Attenuator | TESEQ & EMCI | CBL6112D & N-6-06 | 37880 & AT-N0609 | 20MHz ~ 2GHz | Aug. 30, 2017 | Aug. 29, 2018 | Radiation (03CH01-CB) |
| Loop Antenna | Teseq | HLA 6120 | 24155 | 9kHz - 30 MHz | Mar. 16, 2016* | Mar. 15, 2018* | Radiation (03CH01-CB) |
| Horn Antenna | EMCO | 3115 | 00075790 | 750MHz ~ 18GHz | Nov. 20, 2017 | Nov. 19, 2018 | Radiation (03CH01-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 05, 2017 | Jul. 04, 2018 | Radiation (03CH01-CB) |
| Pre-Amplifier | EMCI | EMC330N | 980332 | 20MHz ~ 3GHz | May 02, 2017 | May 01, 2018 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02310 | 1GHz ~ 26.5GHz | Jan. 16, 2017 | Jan. 15, 2018 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02310 | 1GHz ~ 26.5GHz | Jan. 09, 2018 | Jan. 08, 2019 | Radiation (03CH01-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-HG | 1864479 | 18GHz ~ 40GHz | Jul. 10, 2017 | Jul. 09, 2018 | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100056 | 9kHz ~ 40GHz | Nov. 23, 2017 | Nov. 22, 2018 | Radiation (03CH01-CB) |
| EMI Test | R&S | ESCS | 100355 | 9kHz ~ 2.75GHz | May 06, 2017 | May 05, 2018 | Radiation (03CH01-CB) |
| RF Cable-low | Woken | Low Cable-16+17 | N/A | 30 MHz ~ 1 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-16 | N/A | 1 GHz ~ 18 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-16+17 | N/A | 1 GHz ~ 18 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G#1 | N/A | 18GHz ~ 40 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G#2 | N/A | 18GHz ~ 40 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Radiation (03CH01-CB) |
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | Dec. 21, 2017 | Dec. 20, 2018 | Conducted (TH01-CB) |



| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---------------|--------------|-----------|---------------|------------------|------------------|----------------------|---------------------|
| RF Cable-high | Woken | RG402 | High Cable-06 | 1 GHz – 26.5 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-07 | 1 GHz –26.5 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-08 | 1 GHz –26.5 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-09 | 1 GHz –26.5 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz –26.5 GHz | Oct. 11, 2017 | Oct. 10, 2018 | Conducted (TH01-CB) |
| Power Sensor | Agilent | U2021XA | MY53410001 | 50MHz-18GHz | Nov. 20, 2017 | Nov. 19, 2018 | Conducted (TH01-CB) |

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

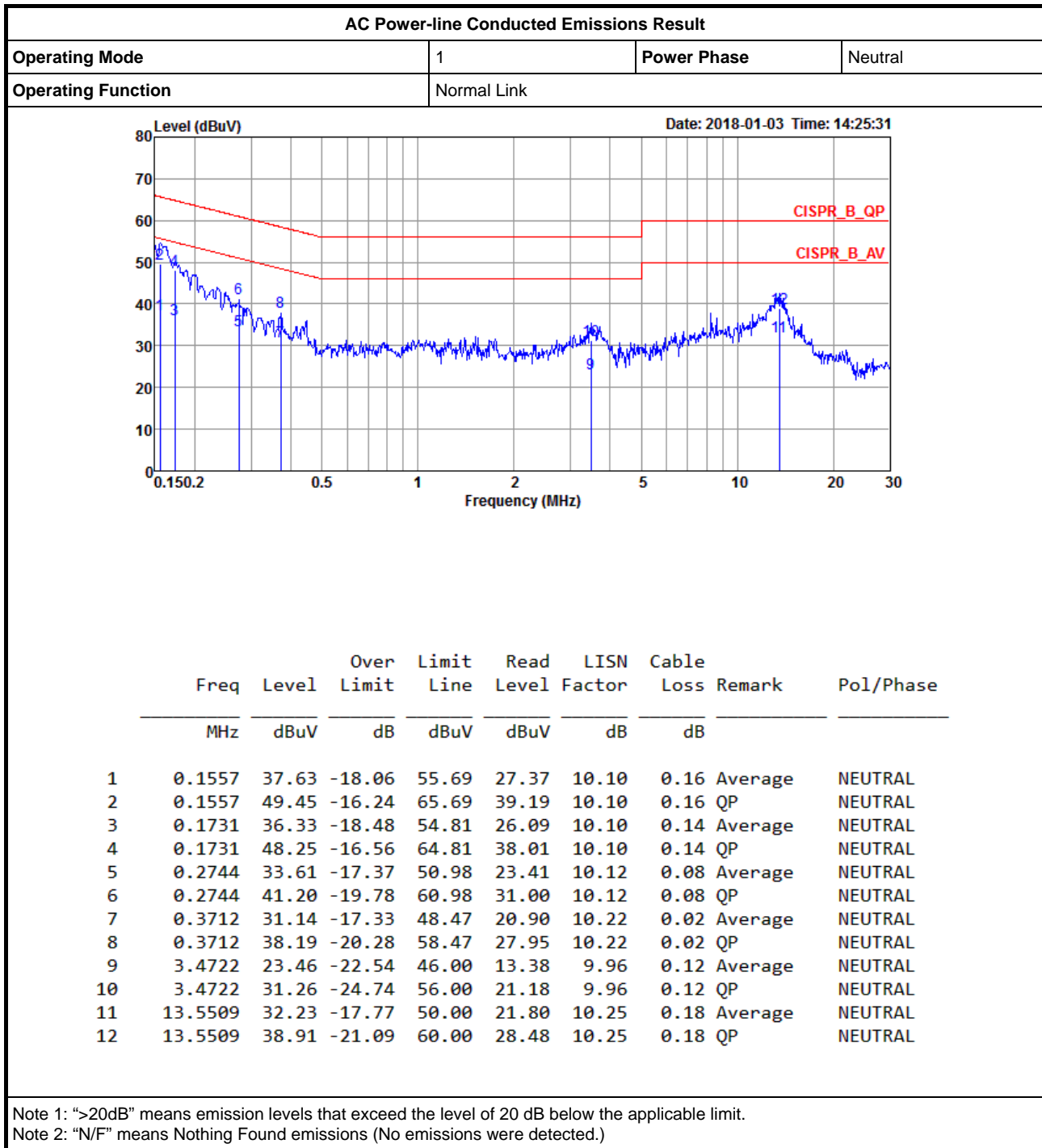
“*” Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.



AC Power-line Conducted Emissions Result

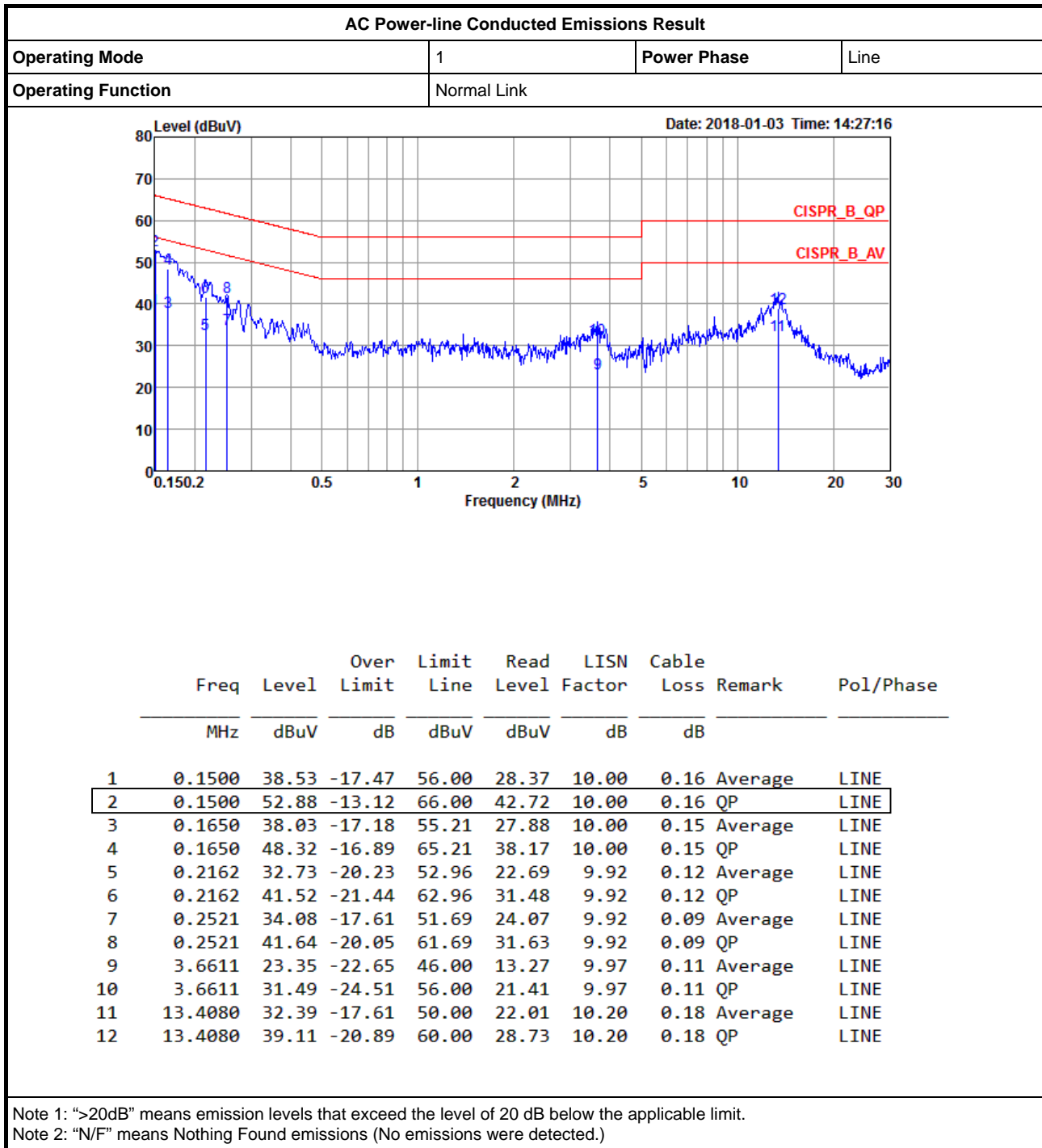
Appendix A





AC Power-line Conducted Emissions Result

Appendix A



Summary

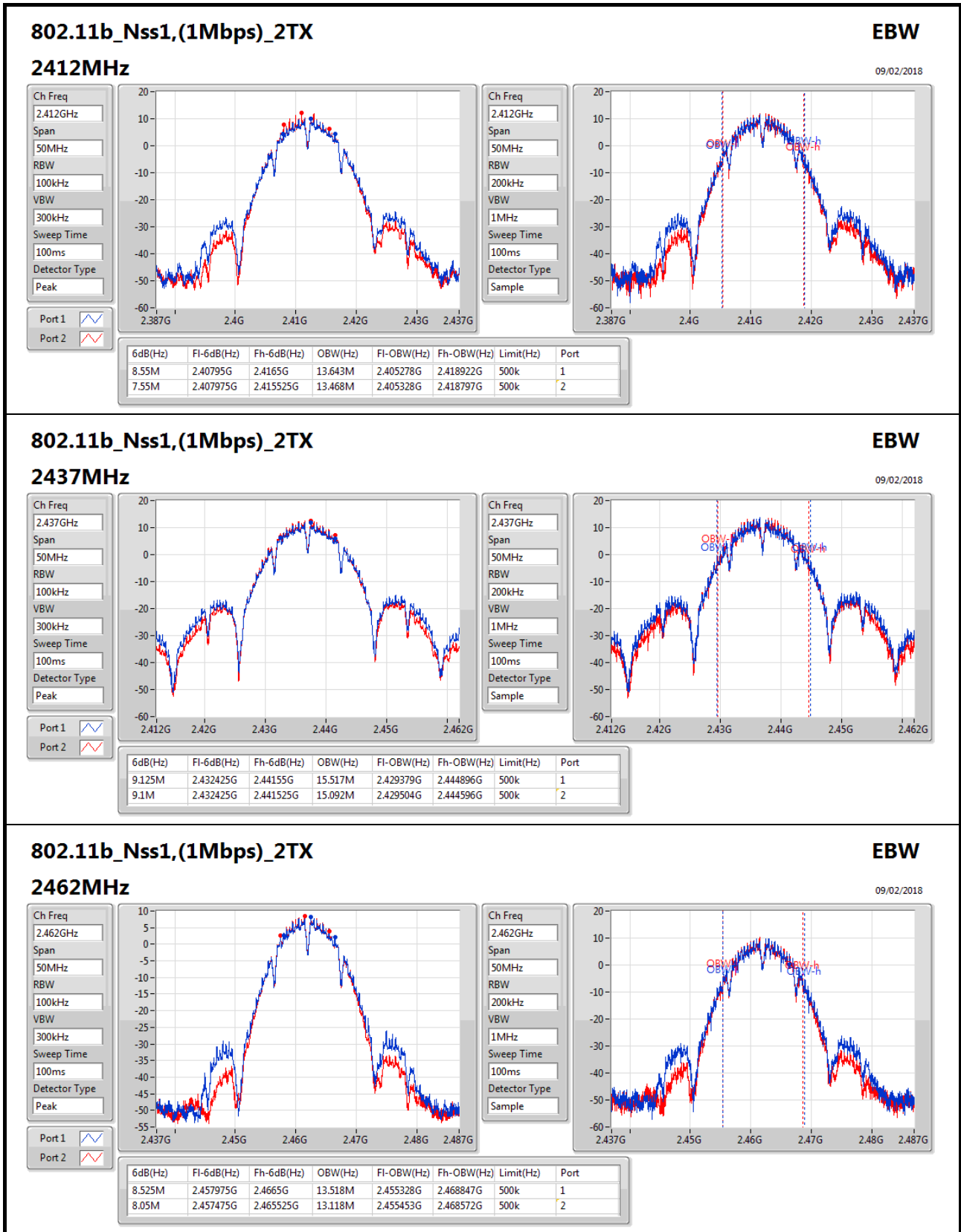
| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz | - | - | - | - | - |
| 802.11b_Nss1,(1Mbps)_2TX | 9.125M | 15.517M | 15M5G1D | 7.55M | 13.118M |
| 802.11g_Nss1,(6Mbps)_2TX | 16.35M | 19.14M | 19M1D1D | 15.925M | 16.417M |
| 802.11n HT20_Nss1,(MCS0)_2TX | 17.6M | 19.915M | 19M9D1D | 17.175M | 17.591M |
| 802.11n HT40_Nss1,(MCS0)_2TX | 35.3M | 36.032M | 36M0D1D | 33.75M | 35.882M |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX | 17.4M | 17.666M | 17M7D1D | 16.85M | 17.616M |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX | 35.55M | 36.032M | 36M0D1D | 30.05M | 35.932M |

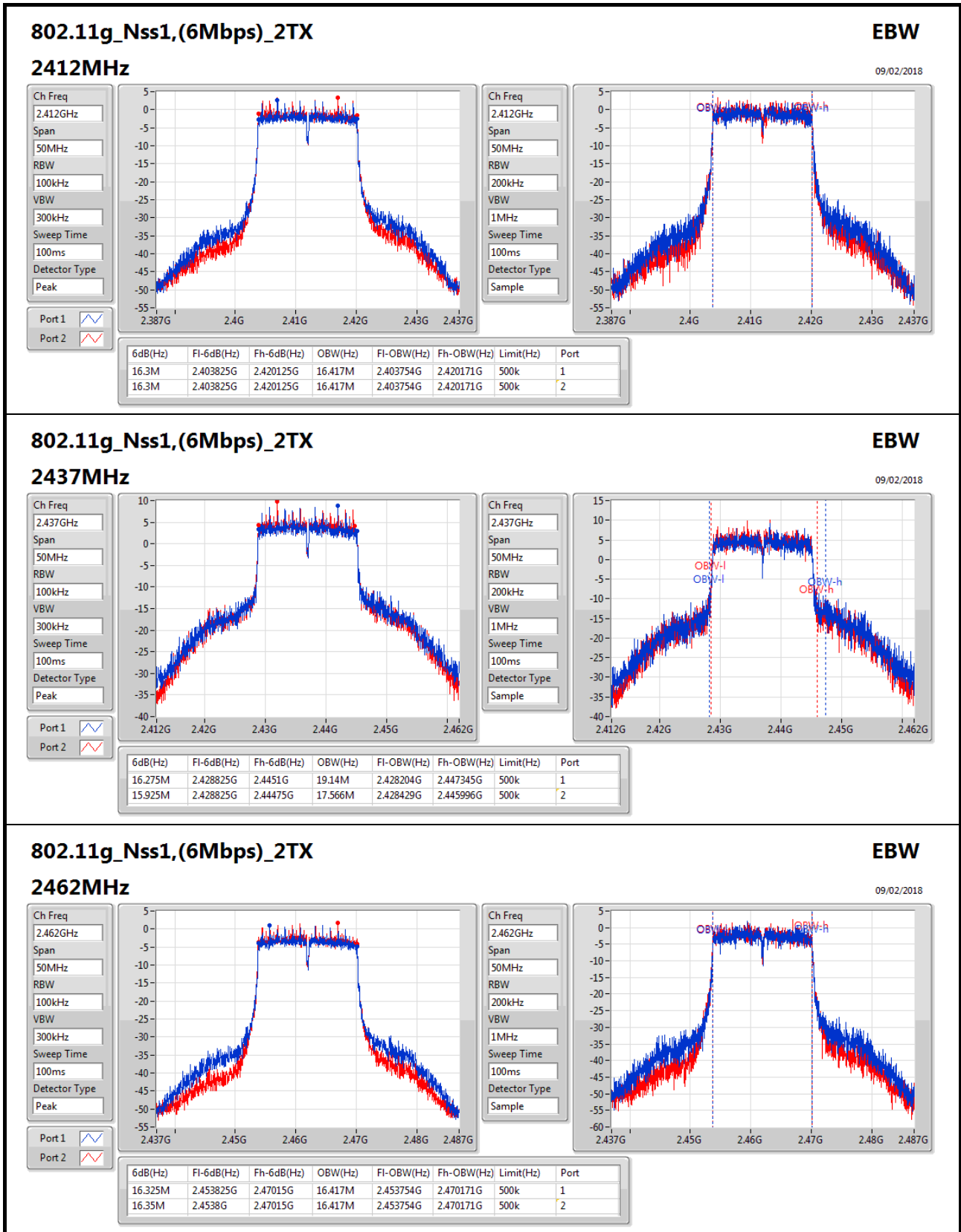
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

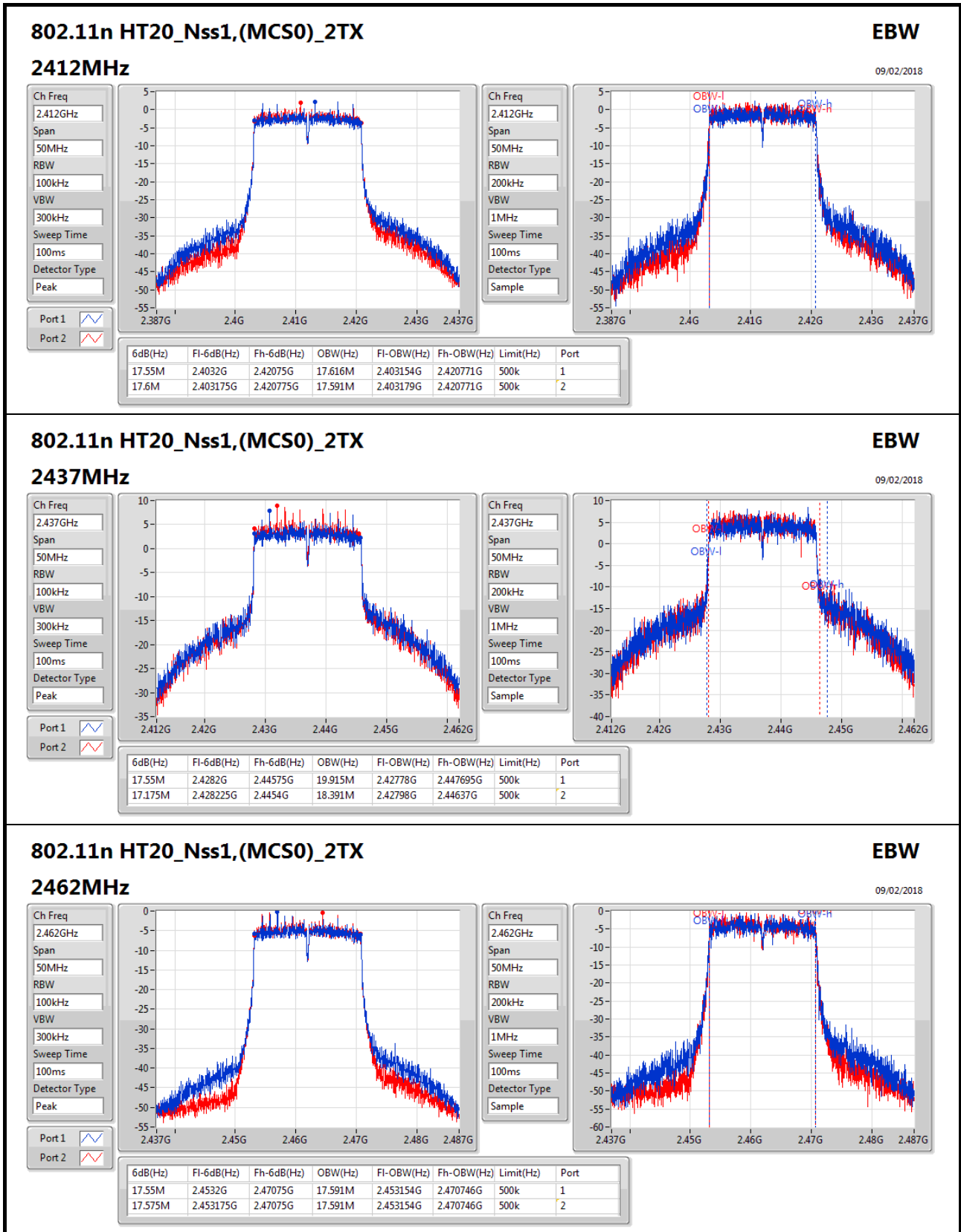
Result

| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) | Port 2-N dB (Hz) | Port 2-OBW (Hz) |
|---------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 500k | 8.55M | 13.643M | 7.55M | 13.468M |
| 2437MHz | Pass | 500k | 9.125M | 15.517M | 9.1M | 15.092M |
| 2462MHz | Pass | 500k | 8.525M | 13.518M | 8.05M | 13.118M |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 500k | 16.3M | 16.417M | 16.3M | 16.417M |
| 2437MHz | Pass | 500k | 16.275M | 19.14M | 15.925M | 17.566M |
| 2462MHz | Pass | 500k | 16.325M | 16.417M | 16.35M | 16.417M |
| 802.11n HT20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 500k | 17.55M | 17.616M | 17.6M | 17.591M |
| 2437MHz | Pass | 500k | 17.55M | 19.915M | 17.175M | 18.391M |
| 2462MHz | Pass | 500k | 17.55M | 17.591M | 17.575M | 17.591M |
| 802.11n HT40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 500k | 35M | 35.982M | 35.25M | 35.932M |
| 2437MHz | Pass | 500k | 33.85M | 36.032M | 35.25M | 35.932M |
| 2452MHz | Pass | 500k | 35.3M | 35.882M | 33.75M | 35.932M |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 500k | 16.85M | 17.616M | 17.275M | 17.616M |
| 2437MHz | Pass | 500k | 17.4M | 17.641M | 17.375M | 17.666M |
| 2462MHz | Pass | 500k | 16.95M | 17.616M | 17.25M | 17.616M |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 500k | 30.05M | 35.932M | 34.45M | 36.032M |
| 2437MHz | Pass | 500k | 35.55M | 35.982M | 33.9M | 36.032M |
| 2452MHz | Pass | 500k | 34.2M | 35.932M | 35.2M | 35.932M |

Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;






802.11n HT20_Nss1,(MCS0)_2TX
EBW

09/02/2018

2462MHz

Ch Freq: 2.462GHz

Span: 50MHz

RBW: 100kHz

VBW: 300kHz

Sweep Time: 100ms

Detector Type: Peak

Port 1:

Port 2:

Ch Freq: 2.462GHz

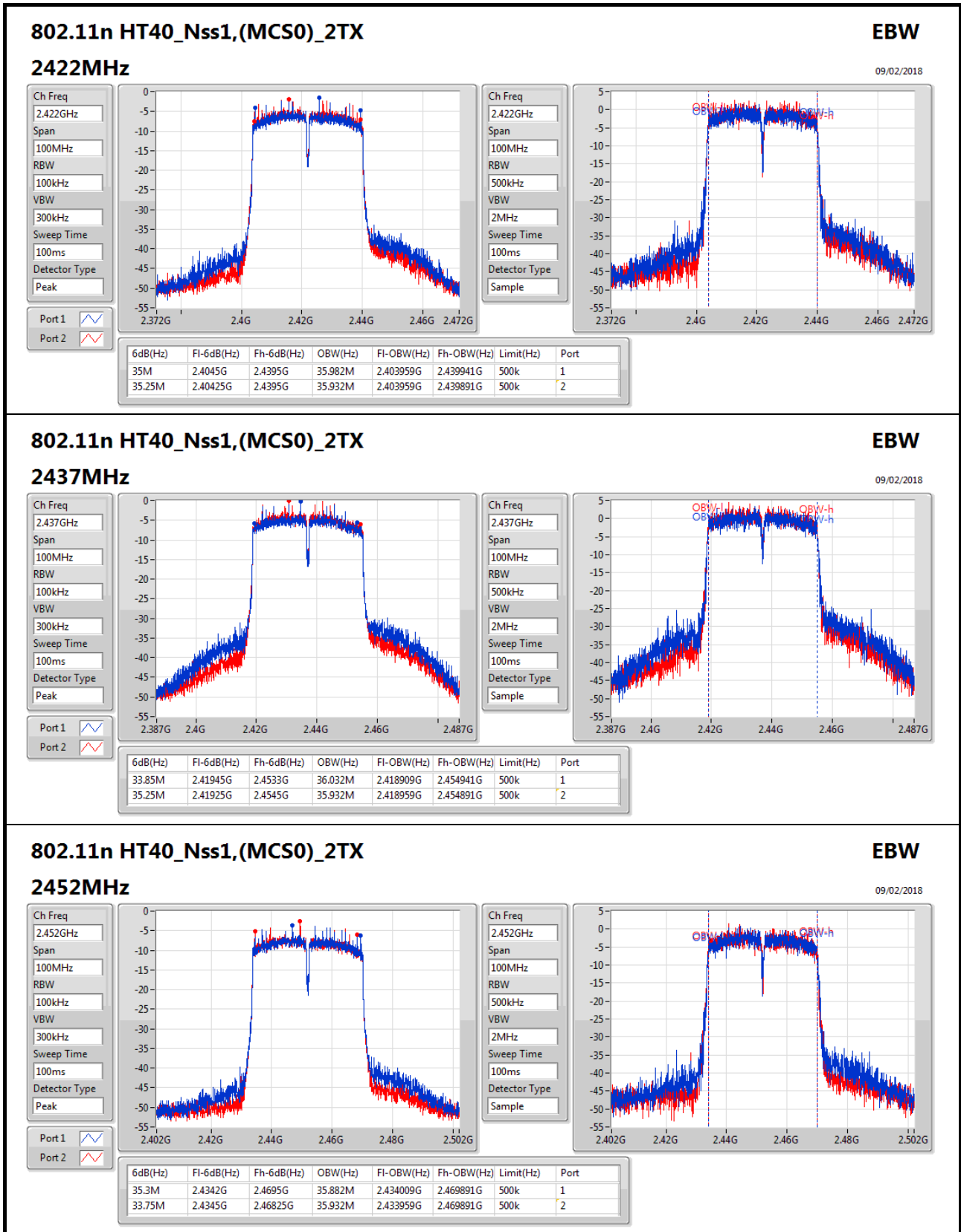
Span: 50MHz

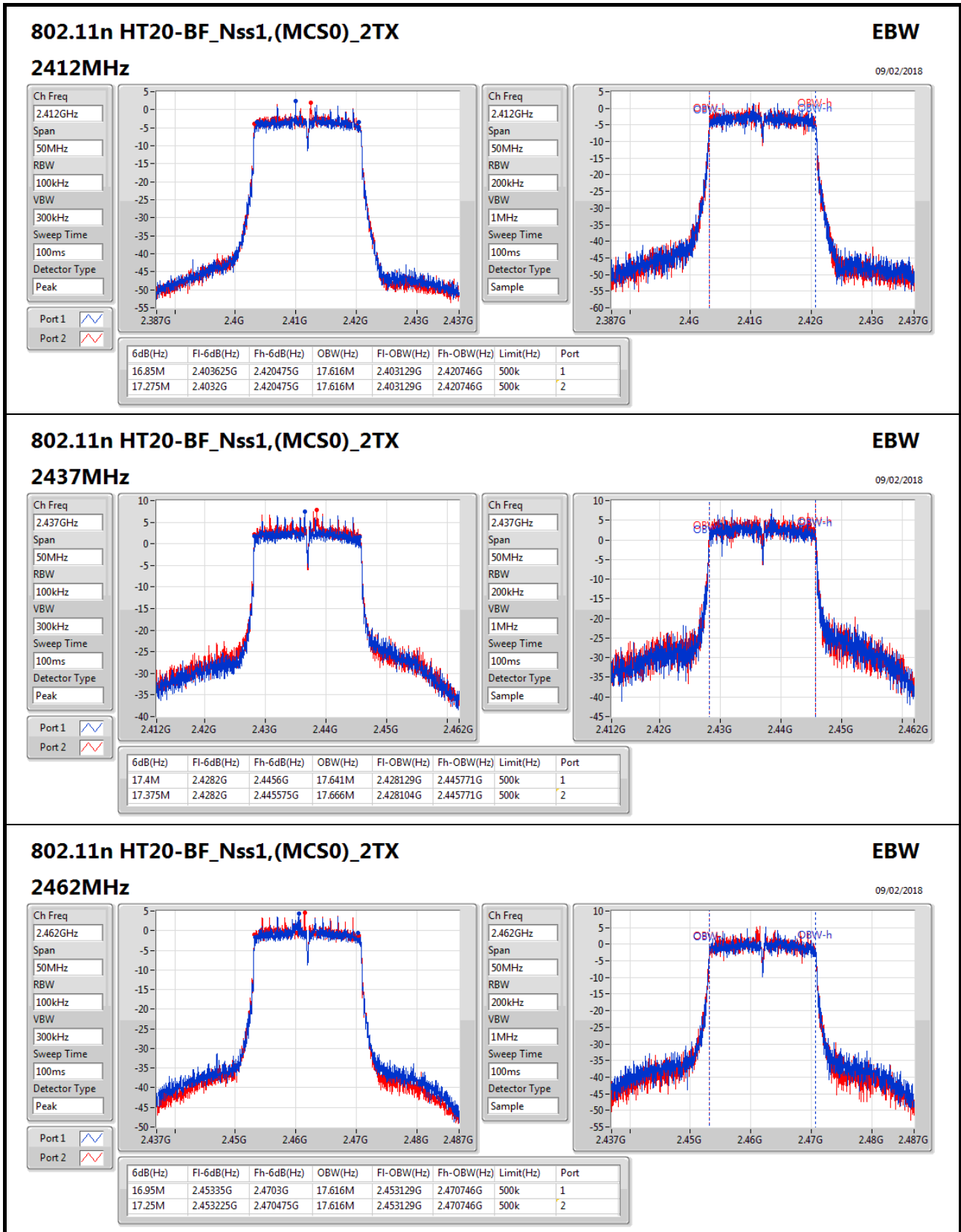
RBW: 200kHz

VBW: 1MHz

Sweep Time: 100ms

Detector Type: Sample




802.11n HT20-BF_Nss1,(MCS0)_2TX
EBW

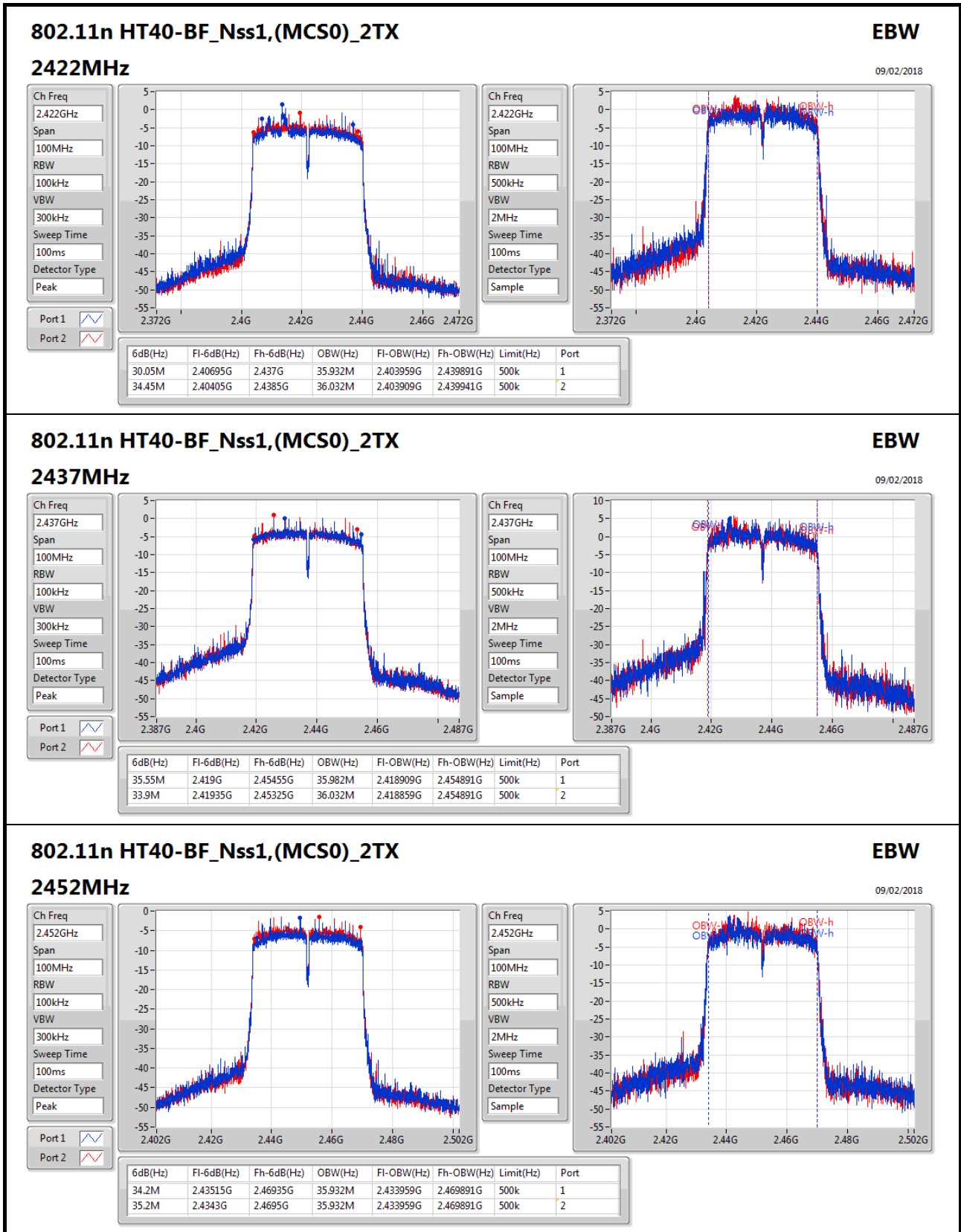
09/02/2018

2462MHz

Ch Freq: 2.462GHz
Span: 50MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Ch Freq: 2.462GHz
Span: 50MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---------|------------|------------|---------|------------|------------|-----------|------|
| 16.95M | 2.45335G | 2.4703G | 17.616M | 2.453129G | 2.470746G | 500k | 1 |
| 17.25M | 2.453225G | 2.470475G | 17.616M | 2.453129G | 2.470746G | 500k | 2 |





Summary

| Mode | Total Power (dBm) | Total Power (W) |
|---------------------------------|-------------------|-----------------|
| 2.4-2.4835GHz | - | - |
| 802.11b_Nss1,(1Mbps)_2TX | 25.49 | 0.35400 |
| 802.11g_Nss1,(6Mbps)_2TX | 23.37 | 0.21727 |
| 802.11n HT20_Nss1,(MCS0)_2TX | 23.38 | 0.21777 |
| 802.11n HT40_Nss1,(MCS0)_2TX | 17.81 | 0.06039 |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX | 21.51 | 0.14158 |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX | 18.07 | 0.06412 |

Result

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|------------------------------|--------|----------|--------------|--------------|-------------------|-------------------|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 2.90 | 19.91 | 20.39 | 23.17 | 30.00 |
| 2417MHz | Pass | 2.90 | 20.01 | 20.33 | 23.18 | 30.00 |
| 2422MHz | Pass | 2.90 | 20.37 | 20.51 | 23.45 | 30.00 |
| 2427MHz | Pass | 2.90 | 20.25 | 20.74 | 23.51 | 30.00 |
| 2432MHz | Pass | 2.90 | 22.22 | 22.72 | 25.49 | 30.00 |
| 2437MHz | Pass | 2.90 | 22.05 | 22.70 | 25.40 | 30.00 |
| 2442MHz | Pass | 2.90 | 22.15 | 22.60 | 25.39 | 30.00 |
| 2447MHz | Pass | 2.90 | 21.17 | 21.55 | 24.37 | 30.00 |
| 2452MHz | Pass | 2.90 | 21.30 | 21.46 | 24.39 | 30.00 |
| 2457MHz | Pass | 2.90 | 20.75 | 21.13 | 23.95 | 30.00 |
| 2462MHz | Pass | 2.90 | 18.32 | 18.60 | 21.47 | 30.00 |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 2.90 | 14.53 | 14.96 | 17.76 | 30.00 |
| 2417MHz | Pass | 2.90 | 16.52 | 16.84 | 19.69 | 30.00 |
| 2422MHz | Pass | 2.90 | 17.60 | 18.19 | 20.92 | 30.00 |
| 2427MHz | Pass | 2.90 | 18.89 | 19.55 | 22.24 | 30.00 |
| 2432MHz | Pass | 2.90 | 20.11 | 20.60 | 23.37 | 30.00 |
| 2437MHz | Pass | 2.90 | 20.02 | 20.55 | 23.30 | 30.00 |
| 2442MHz | Pass | 2.90 | 19.38 | 19.68 | 22.54 | 30.00 |
| 2447MHz | Pass | 2.90 | 18.78 | 18.96 | 21.88 | 30.00 |
| 2452MHz | Pass | 2.90 | 17.03 | 17.52 | 20.29 | 30.00 |
| 2457MHz | Pass | 2.90 | 15.28 | 15.72 | 18.52 | 30.00 |
| 2462MHz | Pass | 2.90 | 12.74 | 13.84 | 16.34 | 30.00 |
| 802.11n HT20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 2.90 | 14.61 | 15.02 | 17.83 | 30.00 |
| 2417MHz | Pass | 2.90 | 16.58 | 16.95 | 19.78 | 30.00 |
| 2422MHz | Pass | 2.90 | 17.72 | 18.31 | 21.04 | 30.00 |
| 2427MHz | Pass | 2.90 | 18.56 | 19.16 | 21.88 | 30.00 |
| 2432MHz | Pass | 2.90 | 19.77 | 20.11 | 22.95 | 30.00 |
| 2437MHz | Pass | 2.90 | 20.03 | 20.68 | 23.38 | 30.00 |
| 2442MHz | Pass | 2.90 | 18.80 | 19.30 | 22.07 | 30.00 |
| 2447MHz | Pass | 2.90 | 18.46 | 18.80 | 21.64 | 30.00 |
| 2452MHz | Pass | 2.90 | 16.31 | 16.64 | 19.49 | 30.00 |



AV Power Result

Appendix C

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|---------------------------------|--------|----------|--------------|--------------|-------------------|-------------------|
| 2457MHz | Pass | 2.90 | 15.33 | 15.81 | 18.59 | 30.00 |
| 2462MHz | Pass | 2.90 | 12.13 | 12.04 | 15.10 | 30.00 |
| 802.11n HT40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 2.90 | 13.18 | 13.62 | 16.42 | 30.00 |
| 2427MHz | Pass | 2.90 | 13.75 | 14.14 | 16.96 | 30.00 |
| 2432MHz | Pass | 2.90 | 14.22 | 14.58 | 17.41 | 30.00 |
| 2437MHz | Pass | 2.90 | 14.56 | 15.03 | 17.81 | 30.00 |
| 2442MHz | Pass | 2.90 | 12.71 | 13.02 | 15.88 | 30.00 |
| 2447MHz | Pass | 2.90 | 11.67 | 11.89 | 14.79 | 30.00 |
| 2452MHz | Pass | 2.90 | 11.79 | 11.81 | 14.81 | 30.00 |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 5.91 | 12.61 | 12.94 | 15.79 | 30.00 |
| 2417MHz | Pass | 5.91 | 15.68 | 16.16 | 18.94 | 30.00 |
| 2422MHz | Pass | 5.91 | 15.57 | 16.15 | 18.88 | 30.00 |
| 2427MHz | Pass | 5.91 | 17.61 | 18.09 | 20.87 | 30.00 |
| 2432MHz | Pass | 5.91 | 18.31 | 18.68 | 21.51 | 30.00 |
| 2437MHz | Pass | 5.91 | 18.16 | 18.43 | 21.31 | 30.00 |
| 2447MHz | Pass | 5.91 | 18.26 | 18.57 | 21.43 | 30.00 |
| 2452MHz | Pass | 5.91 | 18.25 | 18.49 | 21.38 | 30.00 |
| 2457MHz | Pass | 5.91 | 16.29 | 16.78 | 19.55 | 30.00 |
| 2462MHz | Pass | 5.91 | 15.52 | 15.83 | 18.69 | 30.00 |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 5.91 | 12.82 | 13.63 | 16.25 | 30.00 |
| 2427MHz | Pass | 5.91 | 11.73 | 11.97 | 14.86 | 30.00 |
| 2432MHz | Pass | 5.91 | 12.79 | 13.45 | 16.14 | 30.00 |
| 2437MHz | Pass | 5.91 | 14.81 | 15.29 | 18.07 | 30.00 |
| 2442MHz | Pass | 5.91 | 14.73 | 15.18 | 17.97 | 30.00 |
| 2447MHz | Pass | 5.91 | 13.73 | 13.82 | 16.79 | 30.00 |
| 2452MHz | Pass | 5.91 | 12.748 | 13.71 | 16.27 | 30.00 |

DG = Directional Gain; Port X = Port X output power



Summary

| Mode | PD (dBm/RBW) |
|---------------------------------|-----------------|
| 2.4-2.4835GHz | - |
| 802.11b_Nss1,(1Mbps)_2TX | -4.08 |
| 802.11g_Nss1,(6Mbps)_2TX | -6.08 |
| 802.11n HT20_Nss1,(MCS0)_2TX | -5.18 |
| 802.11n HT40_Nss1,(MCS0)_2TX | -12.33 |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX | -4.84 |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX | -8.48 |

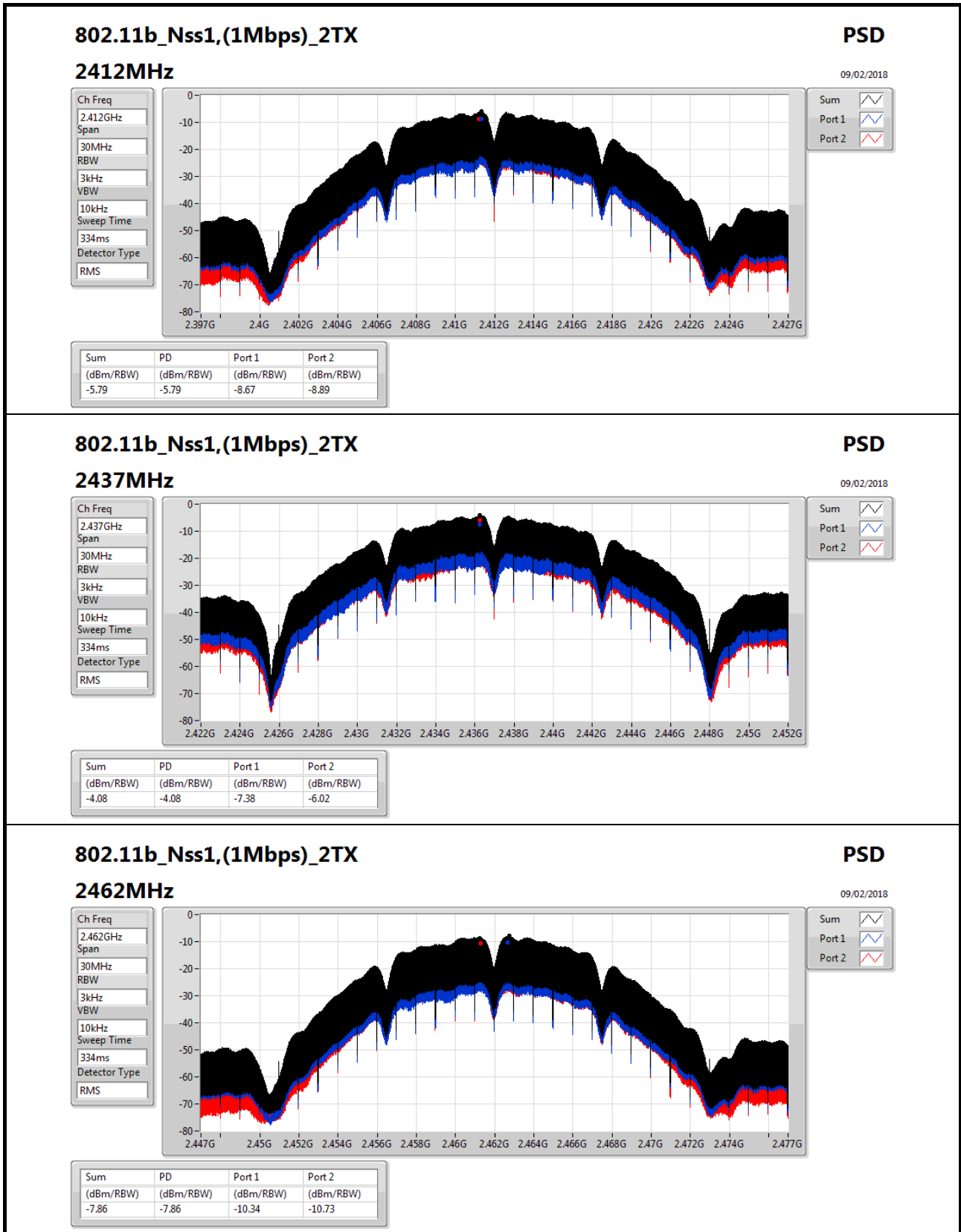
RBW=3kHz.

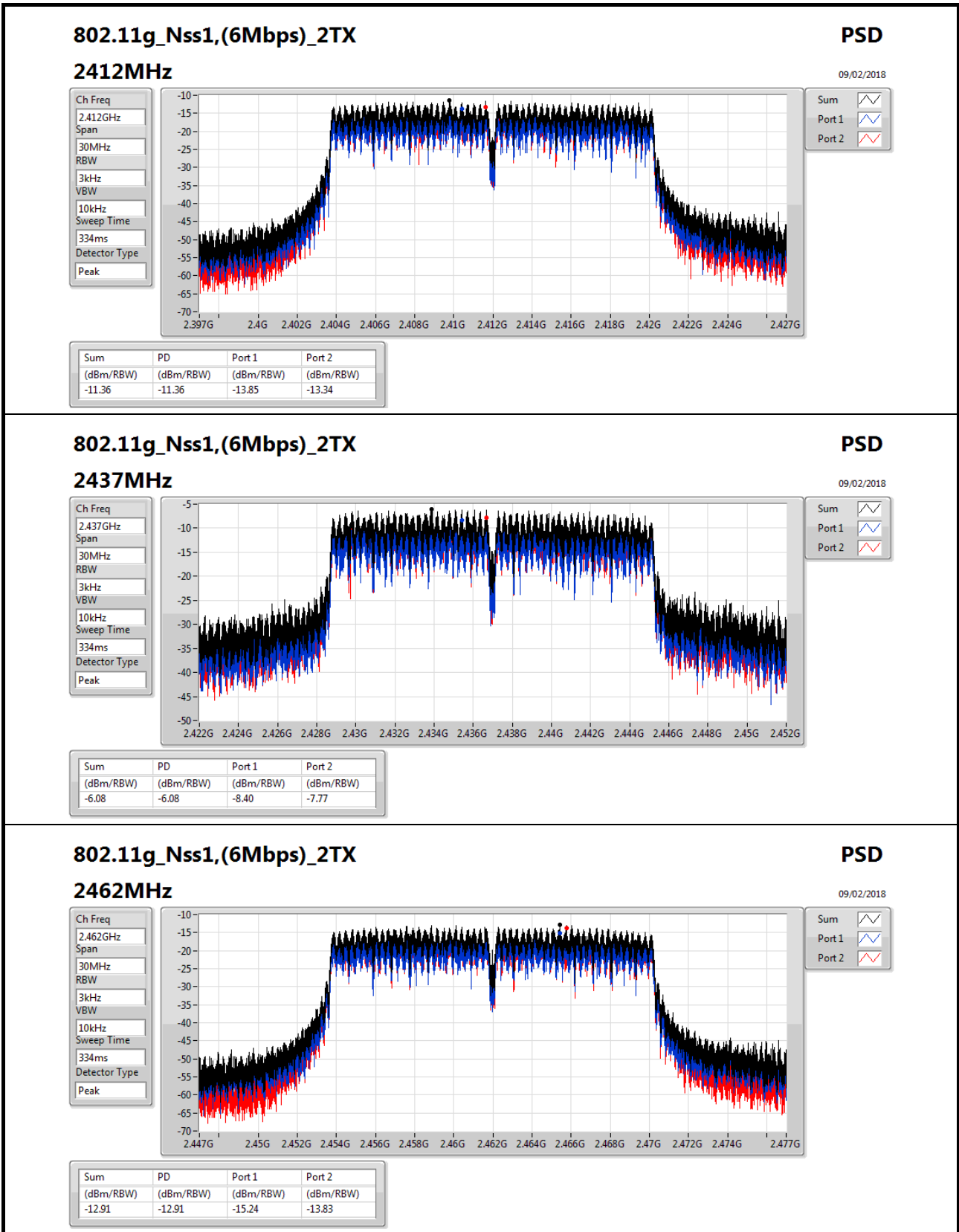
Result

| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | Port 2 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) |
|---------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 5.91 | -8.67 | -8.89 | -5.79 | 8.00 |
| 2437MHz | Pass | 5.91 | -7.38 | -6.02 | -4.08 | 8.00 |
| 2462MHz | Pass | 5.91 | -10.34 | -10.73 | -7.86 | 8.00 |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 5.91 | -13.85 | -13.34 | -11.36 | 8.00 |
| 2437MHz | Pass | 5.91 | -8.40 | -7.77 | -6.08 | 8.00 |
| 2462MHz | Pass | 5.91 | -15.24 | -13.83 | -12.91 | 8.00 |
| 802.11n HT20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 5.91 | -14.05 | -13.02 | -11.19 | 8.00 |
| 2437MHz | Pass | 5.91 | -8.47 | -6.22 | -5.18 | 8.00 |
| 2462MHz | Pass | 5.91 | -16.53 | -16.28 | -13.56 | 8.00 |
| 802.11n HT40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 5.91 | -16.15 | -16.28 | -13.88 | 8.00 |
| 2437MHz | Pass | 5.91 | -14.97 | -14.58 | -12.33 | 8.00 |
| 2452MHz | Pass | 5.91 | -17.90 | -19.23 | -15.77 | 8.00 |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2412MHz | Pass | 5.91 | -12.57 | -13.26 | -11.49 | 8.00 |
| 2437MHz | Pass | 5.91 | -6.05 | -6.26 | -4.84 | 8.00 |
| 2462MHz | Pass | 5.91 | -9.93 | -10.84 | -8.76 | 8.00 |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 2422MHz | Pass | 5.91 | -13.82 | -14.32 | -12.93 | 8.00 |
| 2437MHz | Pass | 5.91 | -11.30 | -10.79 | -10.29 | 8.00 |
| 2452MHz | Pass | 5.91 | -15.89 | -8.73 | -8.48 | 8.00 |

DG = Directional Gain; RBW=3kHz;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;





802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

09/02/2018

Ch Freq
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

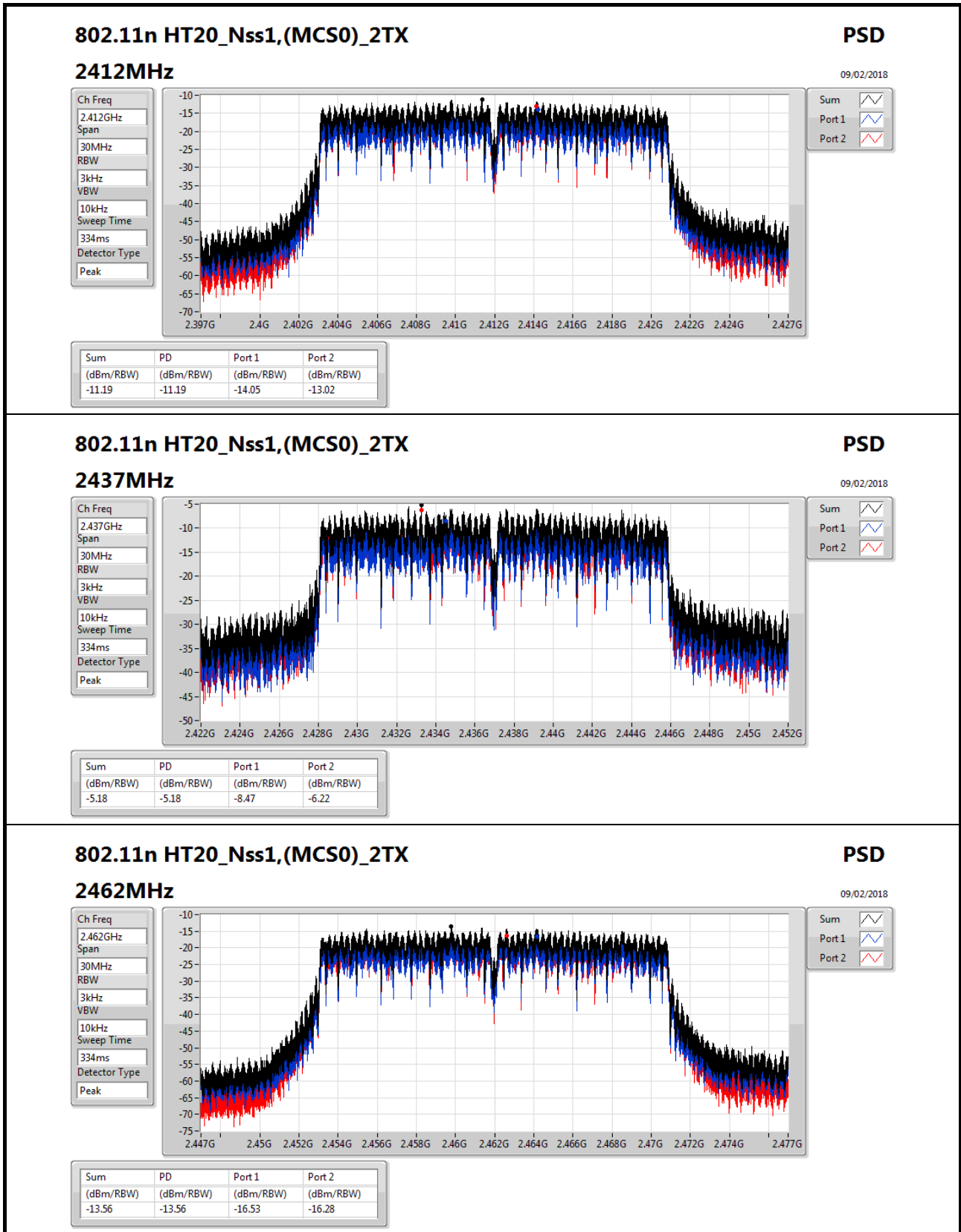
Sweep Time
334ms

Detector Type
Peak

Sum

Port 1

Port 2



802.11n HT20_Nss1,(MCS0)_2TX

2462MHz

PSD

09/02/2018

Ch Freq
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

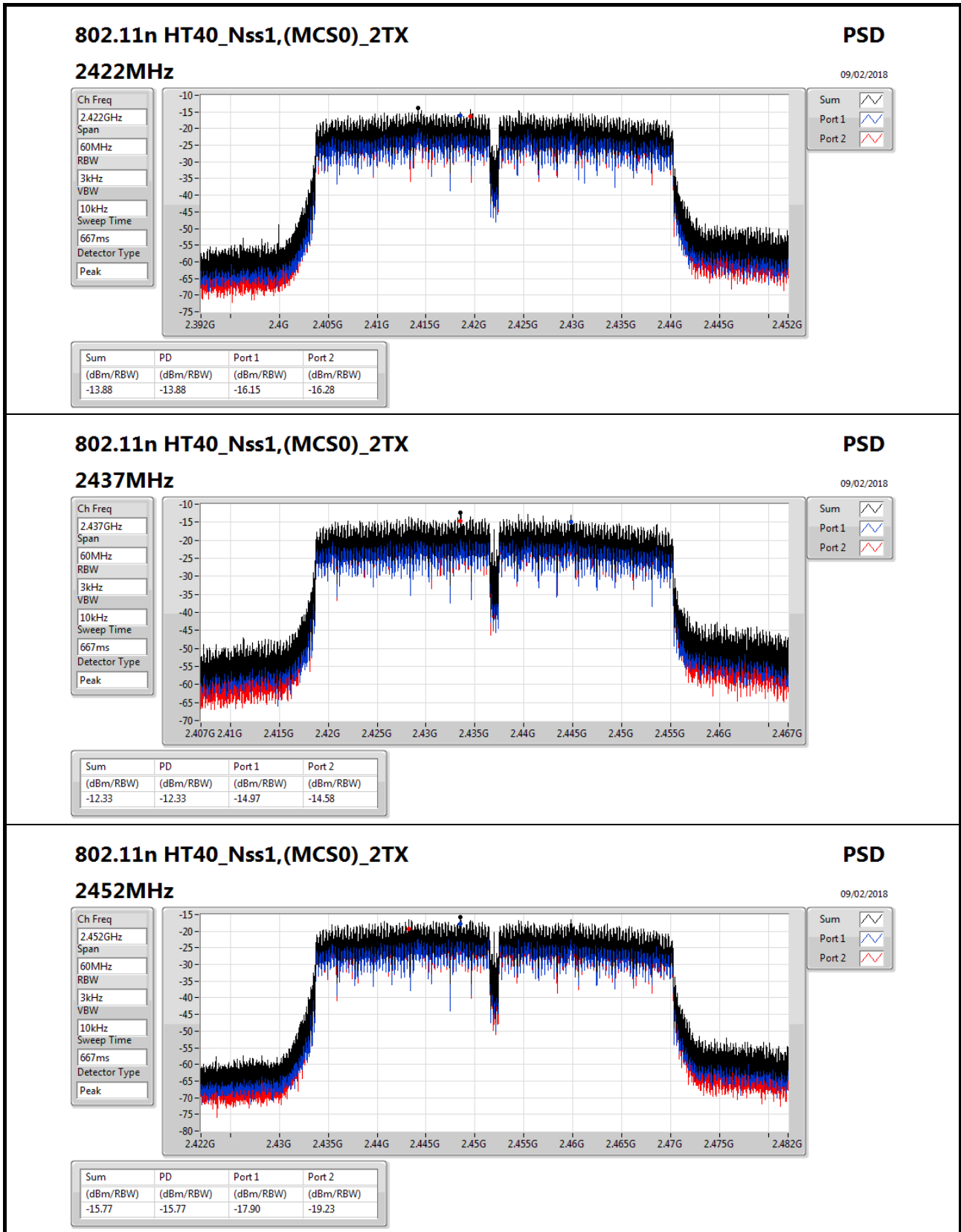
Sweep Time
334ms

Detector Type
Peak

Sum

Port 1

Port 2



802.11n HT40_Nss1,(MCS0)_2TX

2452MHz

PSD

09/02/2018

Ch Freq
2.452GHz

Span
60MHz

RBW
3kHz

VBW
10kHz

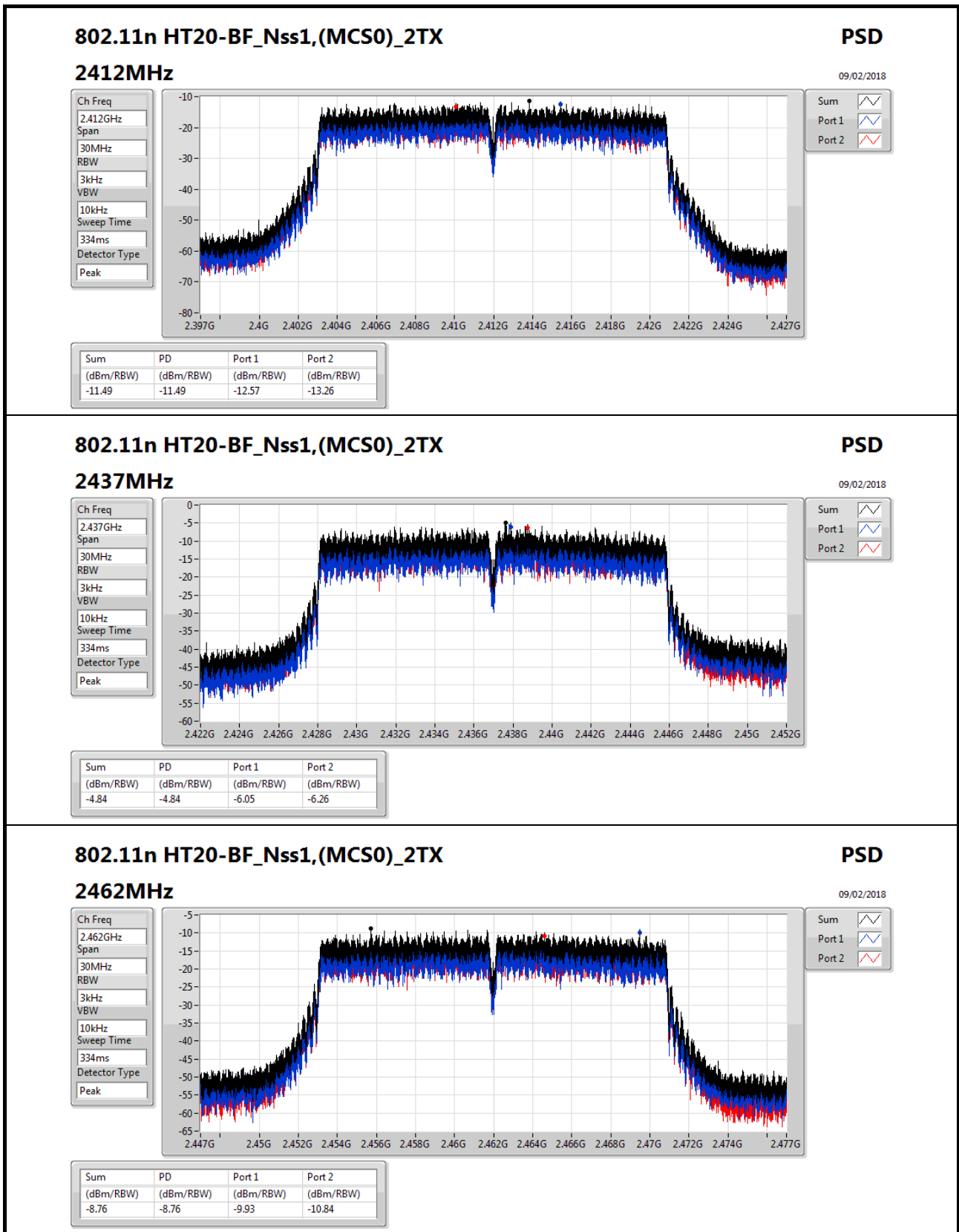
Sweep Time
667ms

Detector Type
Peak

Sum

Port 1

Port 2



802.11n HT20-BF_Nss1,(MCS0)_2TX

2462MHz

PSD

09/02/2018

Ch Freq
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

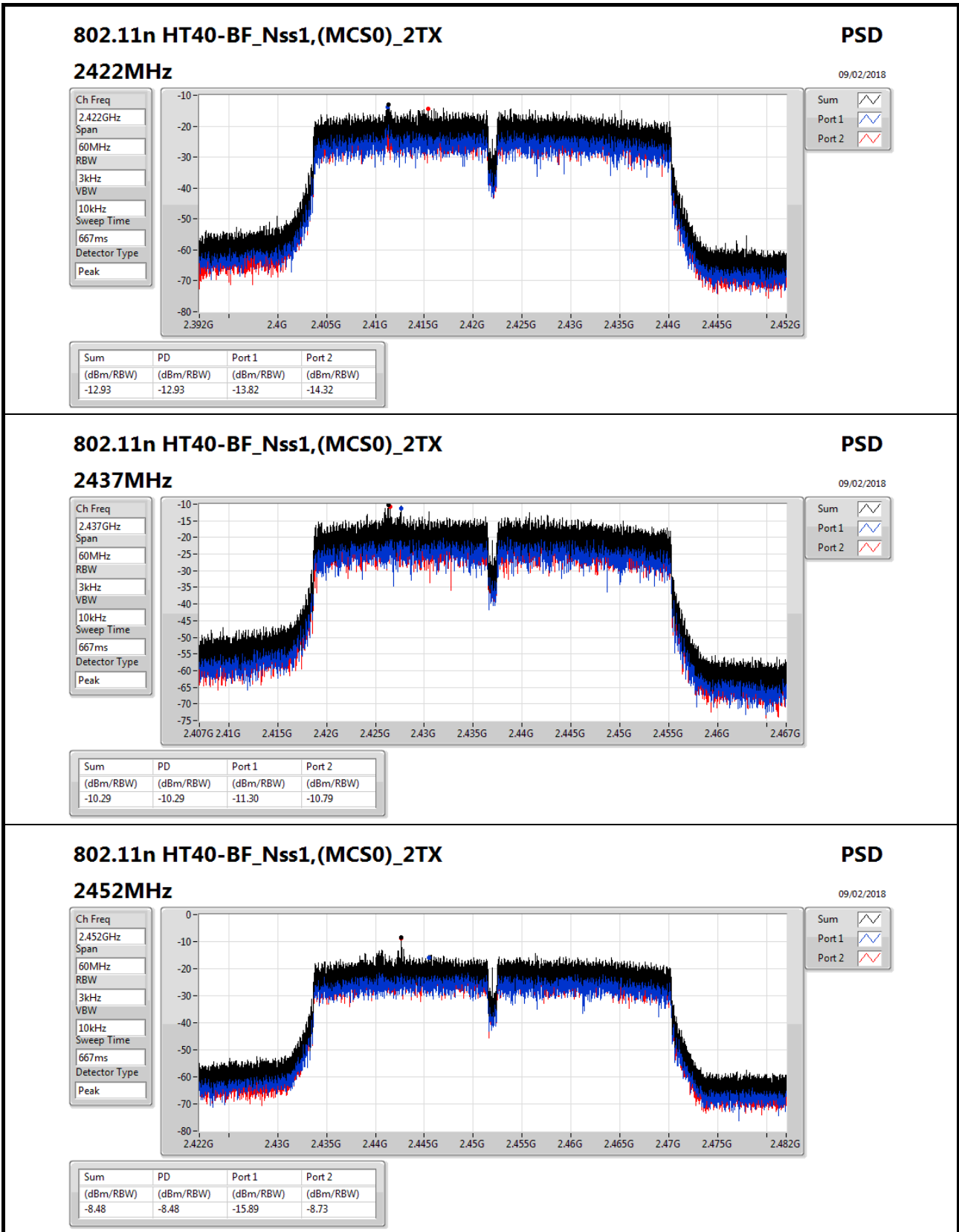
Sweep Time
334ms

Detector Type
Peak

Sum

Port 1

Port 2





Summary

| Mode | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|---------------------------------|--------|-----------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|------------|-------------|------|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 802.11b_Nss1,(1Mbps)_2TX | Pass | 2.437408G | 12.42 | -17.58 | 1.89167G | -59.67 | 2.39848G | -26.81 | 2.49598G | -57.78 | 7.235136G | -38.43 | 1 |
| 802.11g_Nss1,(6Mbps)_2TX | Pass | 2.431897G | 9.67 | -20.33 | 2.30408G | -55.49 | 2.3992G | -31.64 | 2.49598G | -54.63 | 7.232327G | -47.16 | 1 |
| 802.11n HT20_Nss1,(MCS0)_2TX | Pass | 2.438243G | 8.72 | -21.28 | 2.30408G | -55.54 | 2.39952G | -30.66 | 2.49598G | -53.77 | 7.235136G | -48.59 | 1 |
| 802.11n HT40_Nss1,(MCS0)_2TX | Pass | 2.429392G | 0.15 | -29.85 | 2.305115G | -56.30 | 2.39776G | -38.73 | 2.55998G | -54.18 | 7.249924G | -51.54 | 1 |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX | Pass | 2.441917G | 6.79 | -23.21 | 2.30408G | -56.58 | 2.39992G | -52.10 | 2.48446G | -40.19 | 24.387515G | -52.82 | 1 |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX | Pass | 2.431396G | 1.04 | -28.96 | 2.30397G | -56.28 | 2.39952G | -34.20 | 2.48398G | -49.58 | 24.357755G | -53.93 | 1 |

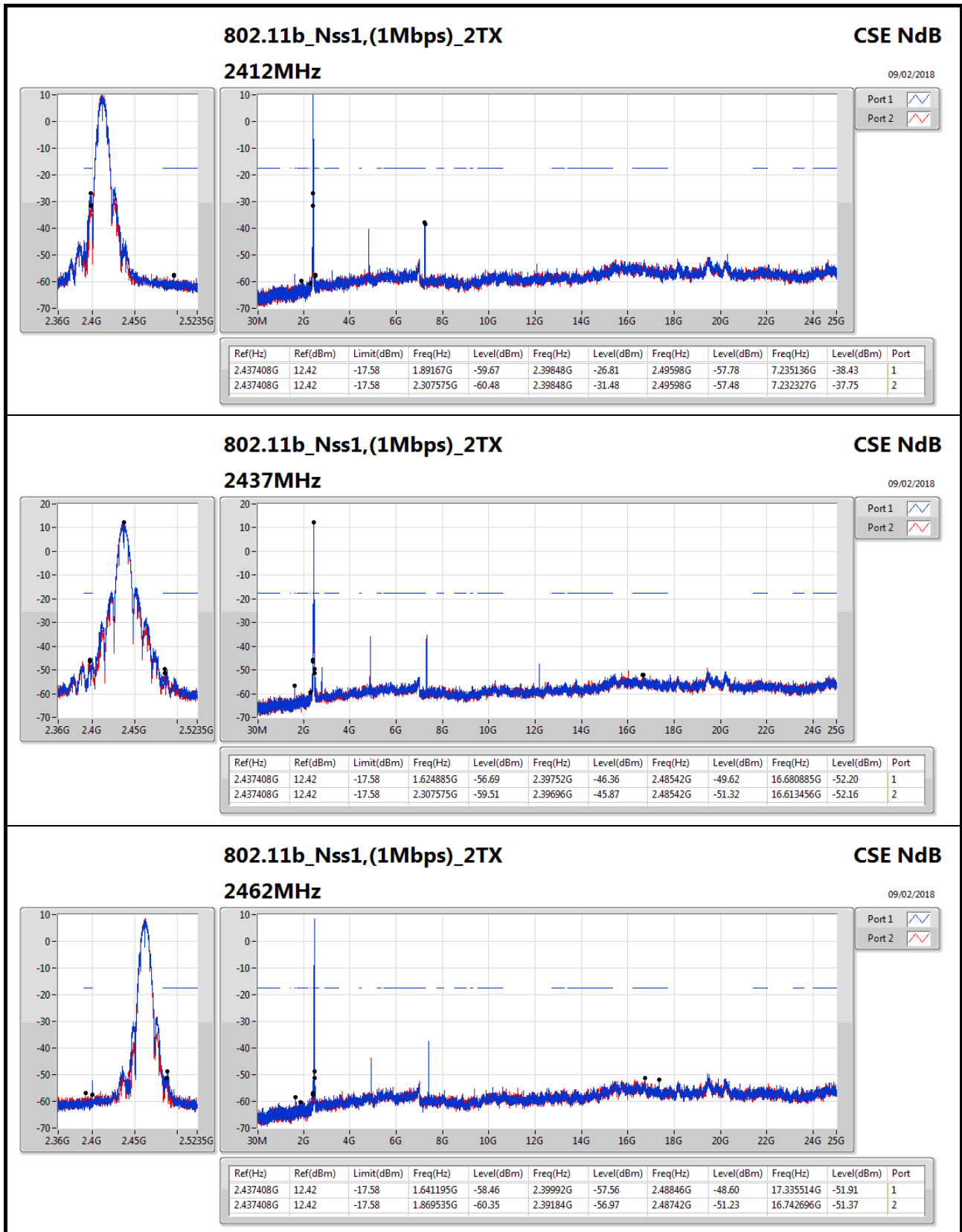
Result

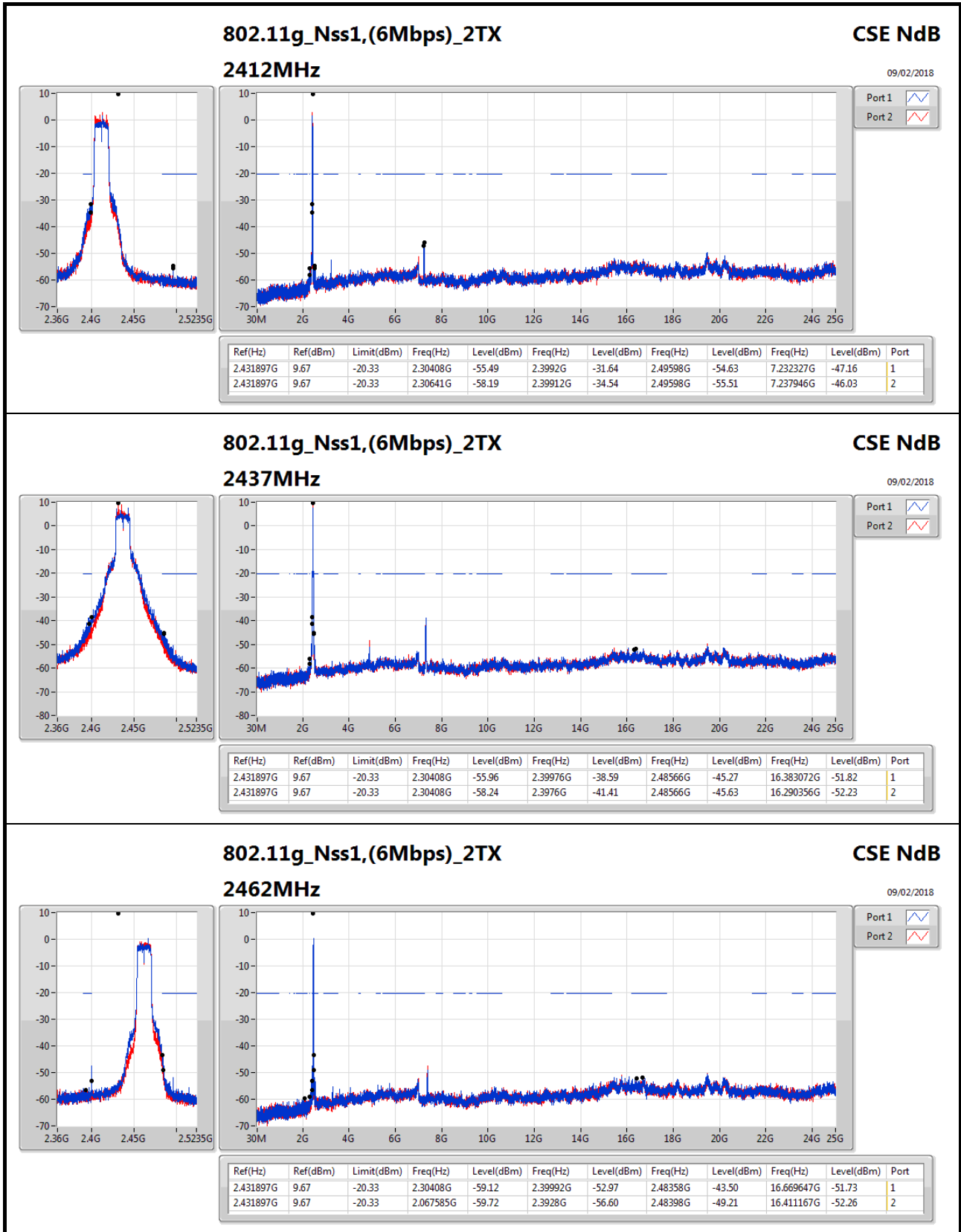
| Mode | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|---------------------------------|--------|-----------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|------------|-------------|------|
| 802.11b_Nss1,(1Mbps)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2412MHz | Pass | 2.437408G | 12.42 | -17.58 | 1.89167G | -59.67 | 2.39848G | -26.81 | 2.49598G | -57.78 | 7.235136G | -38.43 | 1 |
| 2412MHz | Pass | 2.437408G | 12.42 | -17.58 | 2.307575G | -60.48 | 2.39848G | -31.48 | 2.49598G | -57.48 | 7.232327G | -37.75 | 2 |
| 2437MHz | Pass | 2.437408G | 12.42 | -17.58 | 1.624885G | -56.69 | 2.39752G | -46.36 | 2.48542G | -49.62 | 16.680885G | -52.20 | 1 |
| 2437MHz | Pass | 2.437408G | 12.42 | -17.58 | 2.307575G | -59.51 | 2.39696G | -45.87 | 2.48542G | -51.32 | 16.613456G | -52.16 | 2 |
| 2462MHz | Pass | 2.437408G | 12.42 | -17.58 | 1.641195G | -58.46 | 2.39992G | -57.56 | 2.48846G | -48.60 | 17.335514G | -51.91 | 1 |
| 2462MHz | Pass | 2.437408G | 12.42 | -17.58 | 1.869535G | -60.35 | 2.39184G | -56.97 | 2.48742G | -51.23 | 16.742696G | -51.37 | 2 |
| 802.11g_Nss1,(6Mbps)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2412MHz | Pass | 2.431897G | 9.67 | -20.33 | 2.30408G | -55.49 | 2.3992G | -31.64 | 2.49598G | -54.63 | 7.232327G | -47.16 | 1 |
| 2412MHz | Pass | 2.431897G | 9.67 | -20.33 | 2.30641G | -58.19 | 2.39912G | -34.54 | 2.49598G | -55.51 | 7.237946G | -46.03 | 2 |
| 2437MHz | Pass | 2.431897G | 9.67 | -20.33 | 2.30408G | -55.96 | 2.39976G | -38.59 | 2.48566G | -45.27 | 16.383072G | -51.82 | 1 |
| 2437MHz | Pass | 2.431897G | 9.67 | -20.33 | 2.30408G | -58.24 | 2.3976G | -41.41 | 2.48566G | -45.63 | 16.290356G | -52.23 | 2 |
| 2462MHz | Pass | 2.431897G | 9.67 | -20.33 | 2.30408G | -59.12 | 2.39992G | -52.97 | 2.48358G | -43.50 | 16.669647G | -51.73 | 1 |
| 2462MHz | Pass | 2.431897G | 9.67 | -20.33 | 2.067585G | -59.72 | 2.3928G | -56.60 | 2.48398G | -49.21 | 16.411167G | -52.26 | 2 |
| 802.11n HT20_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2412MHz | Pass | 2.438243G | 8.72 | -21.28 | 2.30408G | -55.54 | 2.39952G | -30.66 | 2.49598G | -53.77 | 7.235136G | -48.59 | 1 |
| 2412MHz | Pass | 2.438243G | 8.72 | -21.28 | 2.30408G | -58.41 | 2.39952G | -34.42 | 2.49598G | -56.81 | 7.223898G | -47.25 | 2 |
| 2437MHz | Pass | 2.438243G | 8.72 | -21.28 | 2.30408G | -55.07 | 2.39952G | -35.36 | 2.48478G | -42.49 | 16.383072G | -52.46 | 1 |
| 2437MHz | Pass | 2.438243G | 8.72 | -21.28 | 2.30408G | -58.09 | 2.39952G | -41.46 | 2.48446G | -43.64 | 24.592613G | -51.78 | 2 |
| 2462MHz | Pass | 2.438243G | 8.72 | -21.28 | 2.30408G | -57.72 | 2.39768G | -56.36 | 2.48382G | -43.74 | 16.399929G | -52.15 | 1 |
| 2462MHz | Pass | 2.438243G | 8.72 | -21.28 | 2.167775G | -59.99 | 2.39936G | -56.60 | 2.48382G | -49.57 | 16.739886G | -52.13 | 2 |
| 802.11n HT40_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2422MHz | Pass | 2.429392G | 0.15 | -29.85 | 2.305115G | -56.30 | 2.39776G | -38.73 | 2.55998G | -54.18 | 7.249924G | -51.54 | 1 |
| 2422MHz | Pass | 2.429392G | 0.15 | -29.85 | 2.305115G | -59.36 | 2.39984G | -41.80 | 2.49598G | -55.14 | 16.678863G | -51.88 | 2 |
| 2437MHz | Pass | 2.429392G | 0.15 | -29.85 | 2.305115G | -58.77 | 2.3992G | -39.60 | 2.48414G | -44.18 | 16.40016G | -51.54 | 1 |
| 2437MHz | Pass | 2.429392G | 0.15 | -29.85 | 2.30626G | -58.61 | 2.39984G | -44.21 | 2.48446G | -45.93 | 16.712518G | -52.74 | 2 |
| 2452MHz | Pass | 2.429392G | 0.15 | -29.85 | 2.305115G | -58.46 | 2.3992G | -53.78 | 2.4843G | -40.31 | 16.712518G | -51.87 | 1 |
| 2452MHz | Pass | 2.429392G | 0.15 | -29.85 | 2.30397G | -59.61 | 2.39904G | -53.89 | 2.48414G | -45.84 | 16.743368G | -52.06 | 2 |
| 802.11n HT20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2412MHz | Pass | 2.441917G | 6.79 | -23.21 | 2.30408G | -56.57 | 2.39944G | -41.60 | 2.49598G | -56.10 | 24.362229G | -53.83 | 1 |
| 2412MHz | Pass | 2.441917G | 6.79 | -23.21 | 2.30408G | -57.25 | 2.39968G | -40.31 | 2.49598G | -56.10 | 6.962609G | -53.33 | 2 |
| 2437MHz | Pass | 2.441917G | 6.79 | -23.21 | 2.30408G | -57.47 | 2.39824G | -41.27 | 2.48374G | -49.65 | 24.047558G | -52.66 | 1 |
| 2437MHz | Pass | 2.441917G | 6.79 | -23.21 | 2.30874G | -58.16 | 2.3992G | -41.26 | 2.48526G | -50.37 | 24.047558G | -53.97 | 2 |
| 2462MHz | Pass | 2.441917G | 6.79 | -23.21 | 2.30408G | -56.58 | 2.39992G | -52.10 | 2.48446G | -40.19 | 24.387515G | -52.82 | 1 |
| 2462MHz | Pass | 2.441917G | 6.79 | -23.21 | 860.645M | -58.34 | 2.39824G | -53.30 | 2.48358G | -42.95 | 24.797712G | -53.79 | 2 |
| 802.11n HT40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2422MHz | Pass | 2.431396G | 1.04 | -28.96 | 944.855M | -58.40 | 2.39584G | -37.30 | 2.56014G | -54.54 | 24.312882G | -53.03 | 1 |

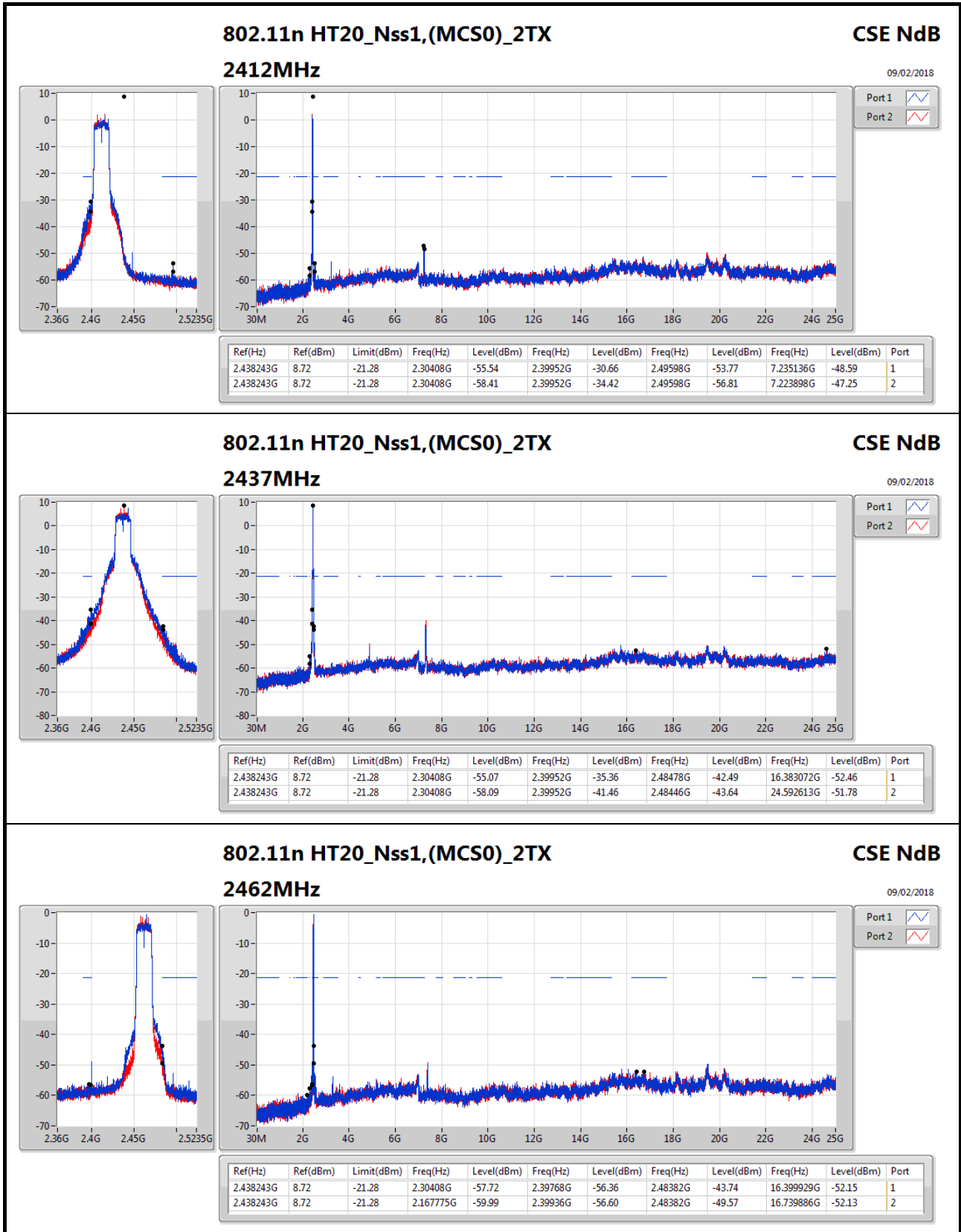


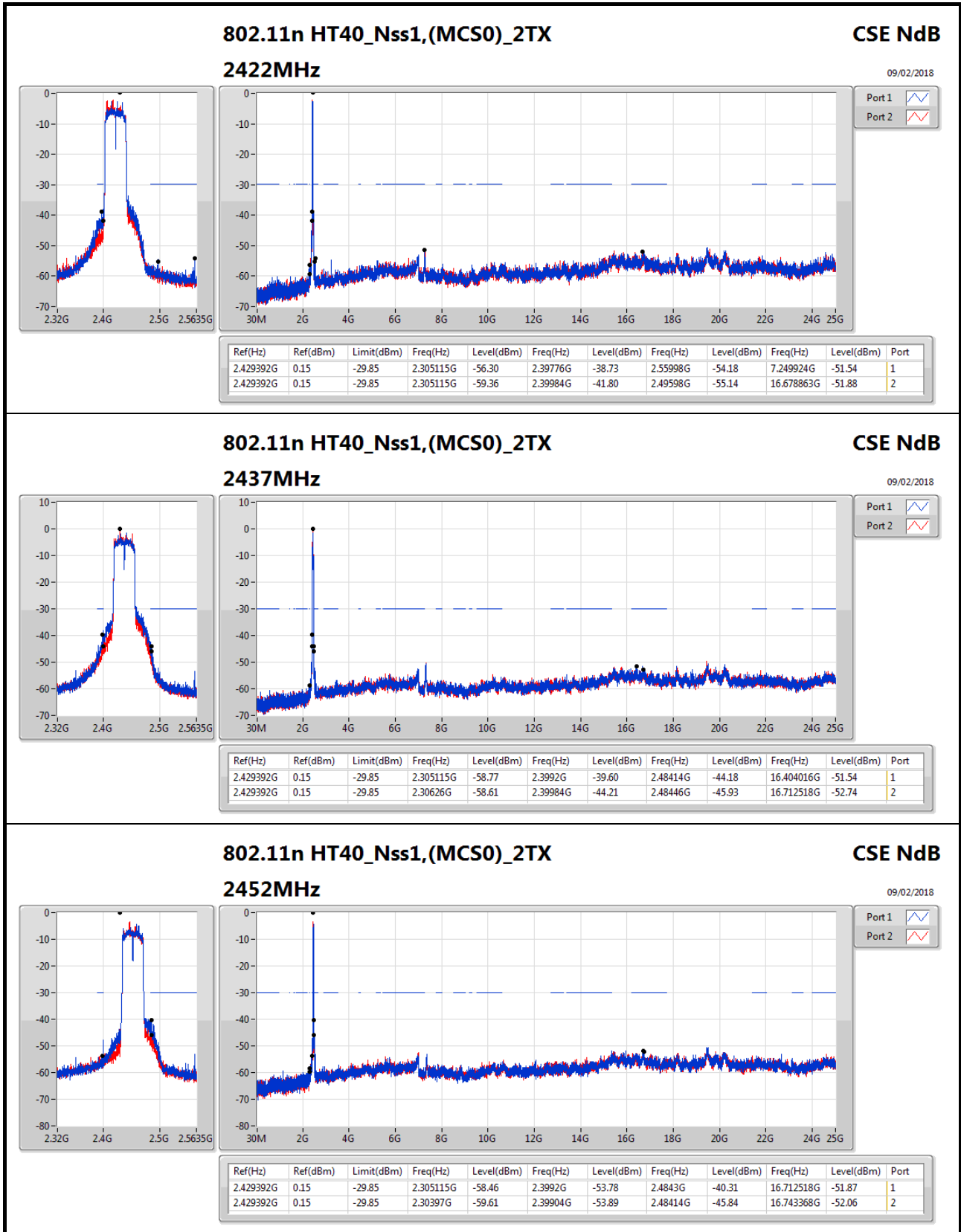
CSE Non-restricted Band Result

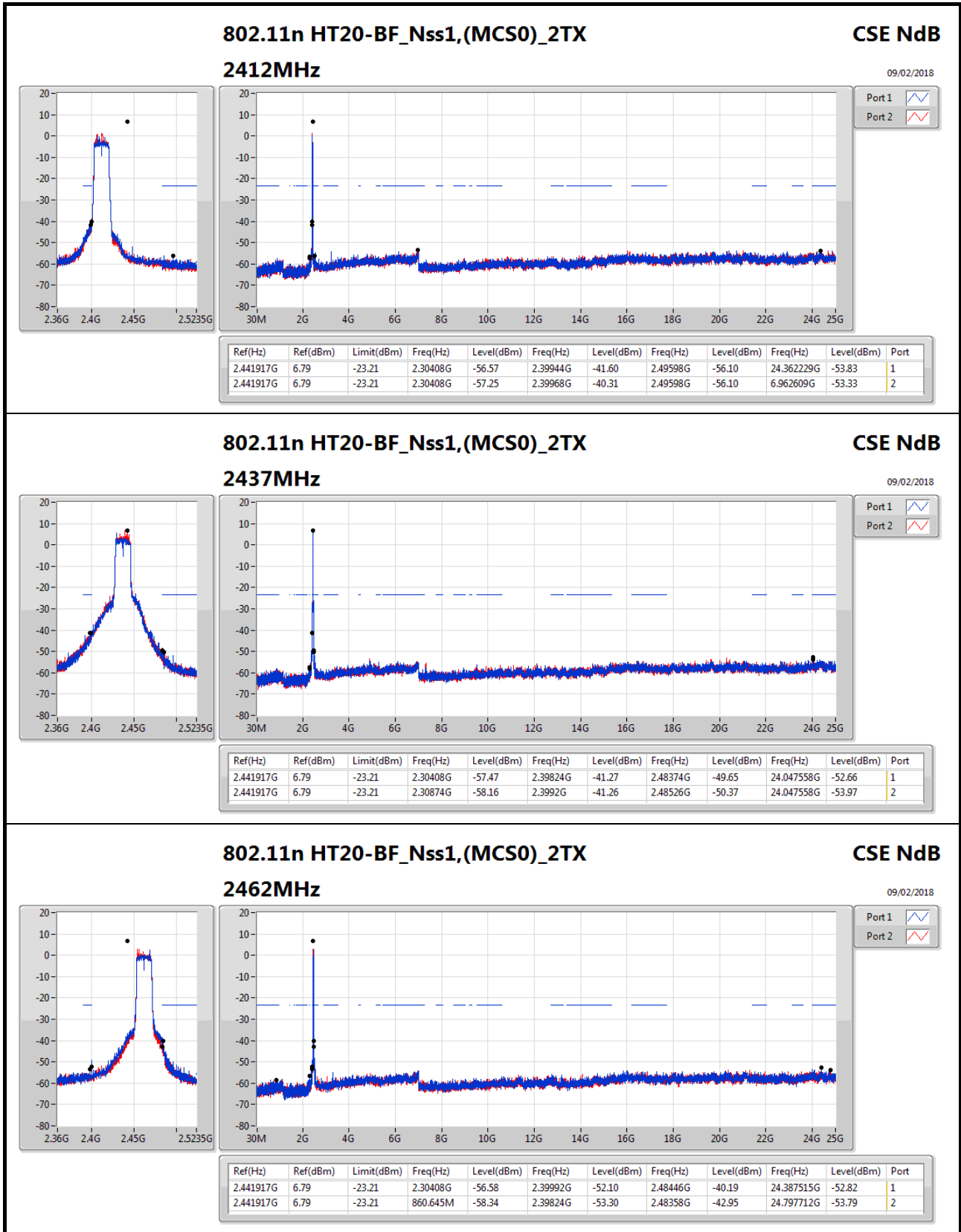
| Mode | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|---------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2422MHz | Pass | 2.431396G | 1.04 | -28.96 | 2.30855G | -59.14 | 2.39712G | -38.22 | 2.49582G | -55.39 | 6.997513G | -52.90 | 2 |
| 2437MHz | Pass | 2.431396G | 1.04 | -28.96 | 2.30397G | -56.28 | 2.39952G | -34.20 | 2.48398G | -49.58 | 24.357755G | -53.93 | 1 |
| 2437MHz | Pass | 2.431396G | 1.04 | -28.96 | 2.305115G | -55.96 | 2.39984G | -40.23 | 2.48366G | -50.84 | 6.918986G | -54.08 | 2 |
| 2452MHz | Pass | 2.431396G | 1.04 | -28.96 | 909.36M | -59.06 | 2.39792G | -52.21 | 2.48638G | -45.98 | 23.443468G | -53.41 | 1 |
| 2452MHz | Pass | 2.431396G | 1.04 | -28.96 | 870.43M | -59.37 | 2.39808G | -48.78 | 2.48366G | -46.73 | 6.980686G | -53.26 | 2 |

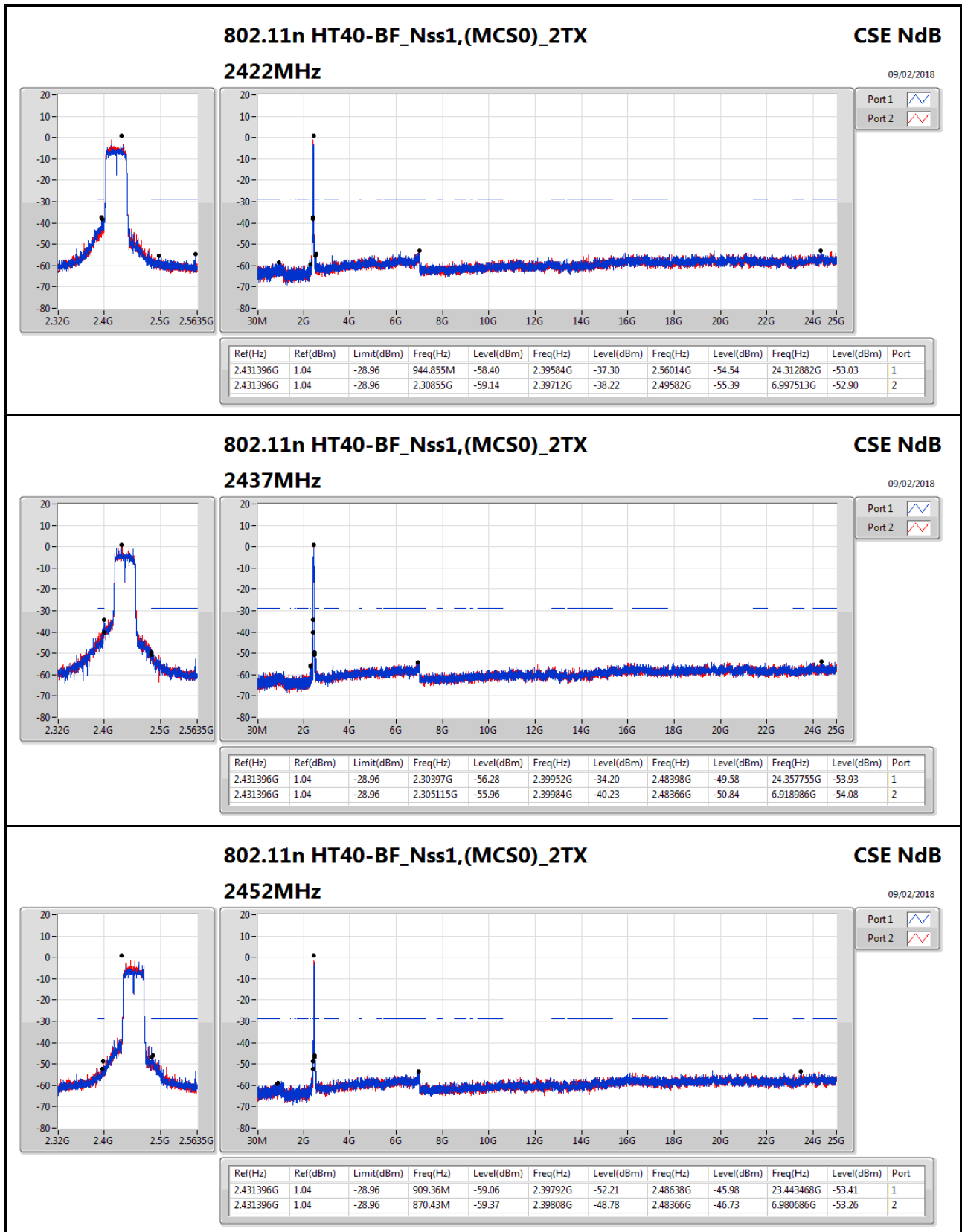






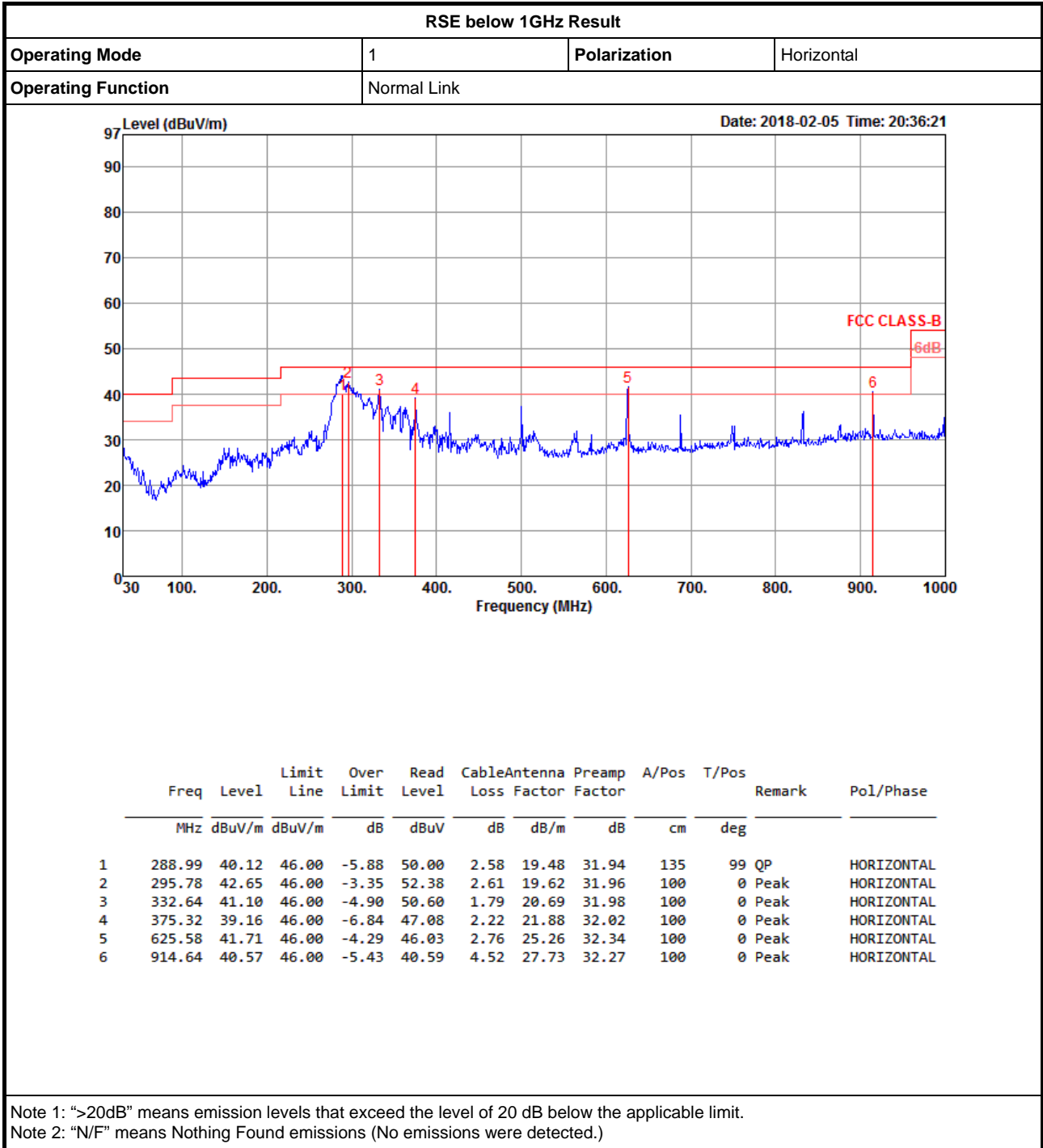








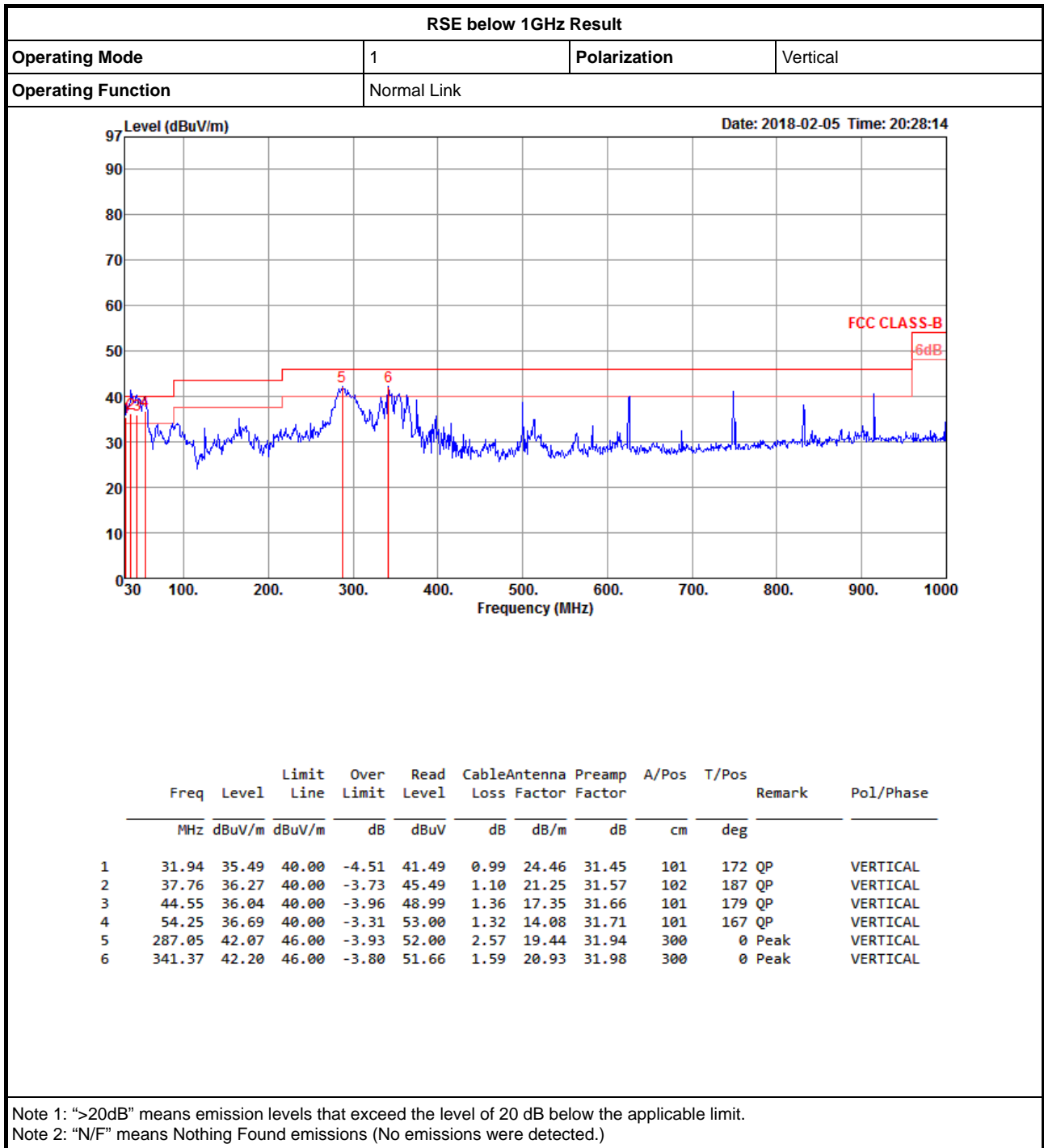
RSE below 1GHz Result





RSE below 1GHz Result

Appendix F.1





Summary

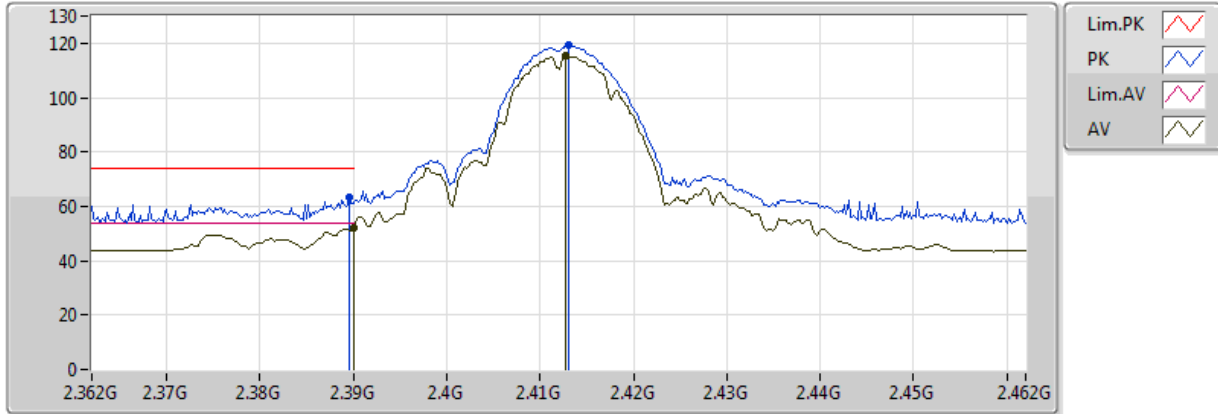
| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------------------------------|--------|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - |
| 802.11n HT40_Nss1,(MCS0)_2TX | Pass | AV | 2.3898G | 53.98 | 54.00 | -0.02 | 30.96 | 3 | Vertical | 339 | 1.26 | - |



802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 21
 01-J-6
 FSp
 Sample Z(+0.5 OVER)

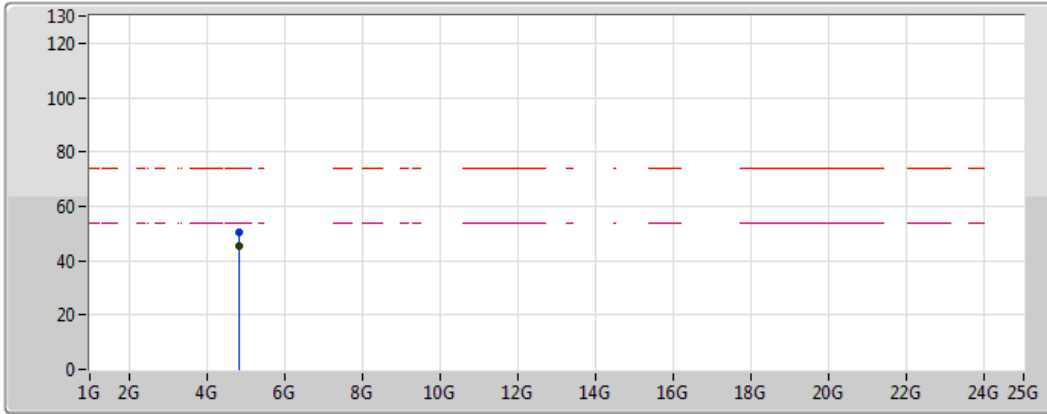
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 52.15 | 54.00 | -1.85 | 30.96 | 3 | Vertical | 340 | 1.10 | - |
| AV | 2.4128G | 115.41 | Inf | -Inf | 30.97 | 3 | Vertical | 340 | 1.10 | - |
| PK | 2.3896G | 63.06 | 74.00 | -10.94 | 30.96 | 3 | Vertical | 340 | 1.10 | - |
| PK | 2.413G | 119.38 | Inf | -Inf | 30.97 | 3 | Vertical | 340 | 1.10 | - |



802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red dashed line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Magenta dashed line with a peak icon
- AV: Black line with a peak icon

20180208
 EUT Z 2TX(Dipole)
 Setting 21
 01-J-6
 FSp
 Sample Z(±0.5 OVER)

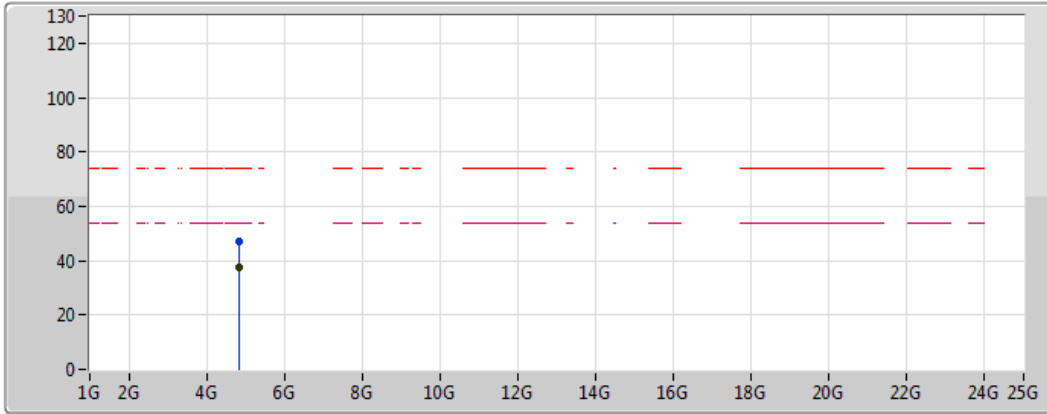
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.82394G | 45.20 | 54.00 | -8.80 | 4.00 | 3 | Vertical | 181 | 1.17 | - |
| PK | 4.82388G | 50.60 | 74.00 | -23.40 | 4.00 | 3 | Vertical | 181 | 1.17 | - |



802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

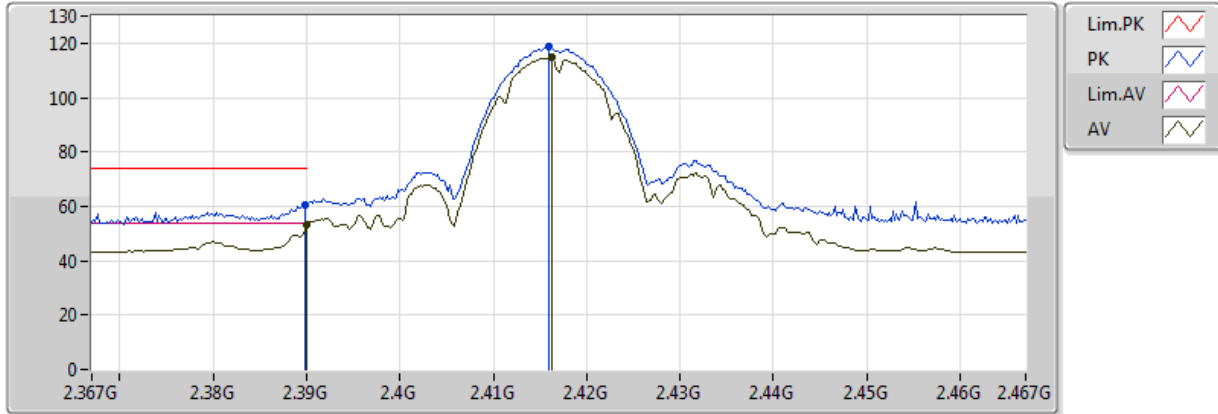
20180208
 EUT Z 2TX(Dipole)
 Setting 21
 01-J-6
 FSp
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.82396G | 37.37 | 54.00 | -16.63 | 3.94 | 3 | Horizontal | 143 | 1.50 | - |
| PK | 4.82388G | 47.32 | 74.00 | -26.68 | 3.94 | 3 | Horizontal | 143 | 1.50 | - |

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

09/02/2018



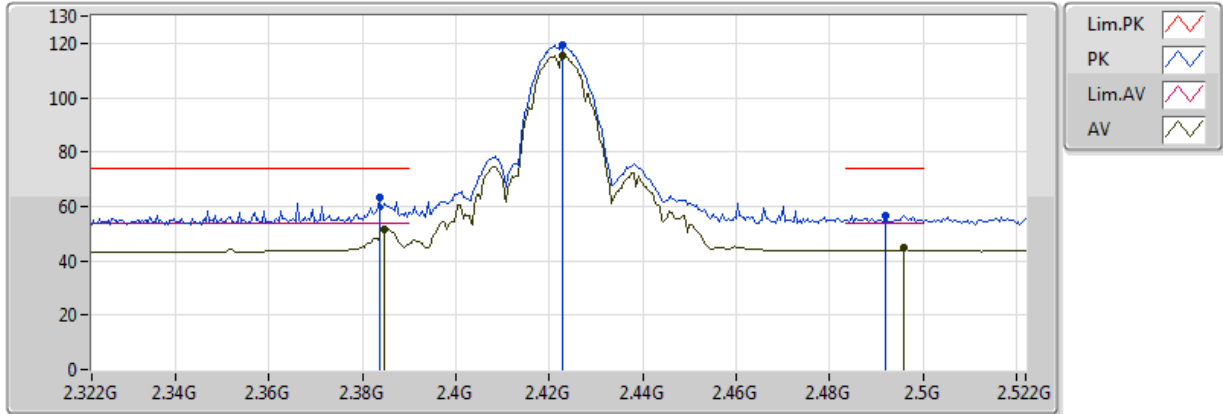
20180208
 EUT Z 2TX(Dipole)
 Setting 21
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 53.39 | 54.00 | -0.61 | 30.96 | 3 | Vertical | 334 | 1.07 | - |
| AV | 2.4162G | 114.76 | Inf | -Inf | 30.98 | 3 | Vertical | 334 | 1.07 | - |
| PK | 2.3898G | 60.37 | 74.00 | -13.63 | 30.96 | 3 | Vertical | 334 | 1.07 | - |
| PK | 2.416G | 118.65 | Inf | -Inf | 30.98 | 3 | Vertical | 334 | 1.07 | - |

802.11b_Nss1,(1Mbps)_2TX

2422MHz_TX

09/02/2018



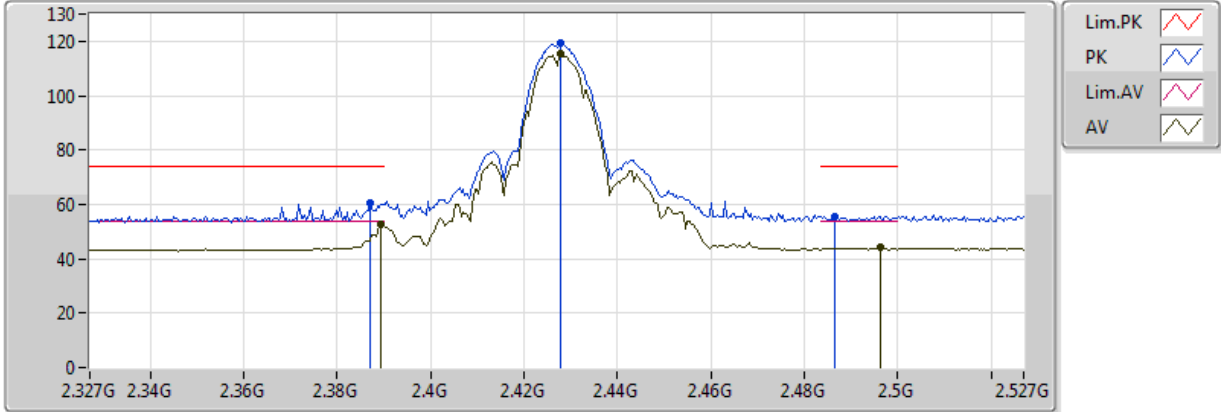
20180208
 EUT Z 2TX(Dipole)
 Setting 21.5
 01-J-6
 FSp
 Sample Z(±0.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3848G | 51.83 | 54.00 | -2.17 | 30.98 | 3 | Vertical | 339 | 1.09 | - |
| AV | 2.4228G | 115.52 | Inf | -Inf | 31.00 | 3 | Vertical | 339 | 1.09 | - |
| AV | 2.496G | 44.81 | 54.00 | -9.19 | 31.21 | 3 | Vertical | 339 | 1.09 | - |
| PK | 2.3836G | 63.40 | 74.00 | -10.60 | 30.98 | 3 | Vertical | 339 | 1.09 | - |
| PK | 2.4228G | 119.39 | Inf | -Inf | 31.00 | 3 | Vertical | 339 | 1.09 | - |
| PK | 2.492G | 56.82 | 74.00 | -17.18 | 31.20 | 3 | Vertical | 339 | 1.09 | - |

802.11b_Nss1,(1Mbps)_2TX

2427MHz_TX

09/02/2018



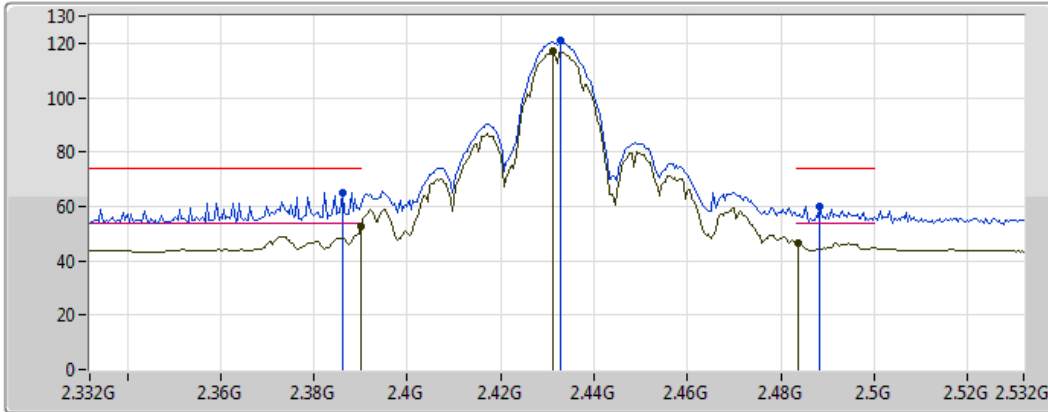
20180208
 EUT Z 2TX(Dipole)
 Setting 21.5
 01-J-6
 FSp
 Sample Z(±10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3894G | 52.52 | 54.00 | -1.48 | 30.96 | 3 | Vertical | 339 | 1.03 | - |
| AV | 2.4278G | 115.22 | Inf | -Inf | 31.01 | 3 | Vertical | 339 | 1.03 | - |
| AV | 2.4962G | 44.20 | 54.00 | -9.80 | 31.21 | 3 | Vertical | 339 | 1.03 | - |
| PK | 2.387G | 60.24 | 74.00 | -13.76 | 30.97 | 3 | Vertical | 339 | 1.03 | - |
| PK | 2.4278G | 119.27 | Inf | -Inf | 31.01 | 3 | Vertical | 339 | 1.03 | - |
| PK | 2.4866G | 55.61 | 74.00 | -18.39 | 31.18 | 3 | Vertical | 339 | 1.03 | - |

802.11b_Nss1,(1Mbps)_2TX

2432MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 23.5
 01-J-6
 FSp
 Sample Z(±10.5 OVER)

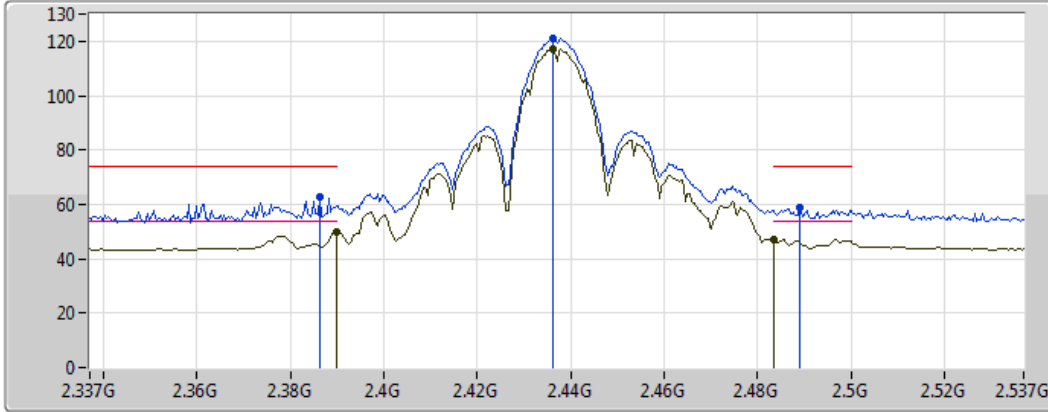
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 52.59 | 54.00 | -1.41 | 30.96 | 3 | Vertical | 7 | 1.05 | - |
| AV | 2.4312G | 116.91 | Inf | -Inf | 31.02 | 3 | Vertical | 7 | 1.05 | - |
| AV | 2.4836G | 46.64 | 54.00 | -7.36 | 31.17 | 3 | Vertical | 7 | 1.05 | - |
| PK | 2.386G | 65.26 | 74.00 | -8.74 | 30.97 | 3 | Vertical | 7 | 1.05 | - |
| PK | 2.4328G | 120.81 | Inf | -Inf | 31.03 | 3 | Vertical | 7 | 1.05 | - |
| PK | 2.4884G | 59.98 | 74.00 | -14.02 | 31.19 | 3 | Vertical | 7 | 1.05 | - |



802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 23.5
 01-J-6
 FSp
 Sample Z(±0.5 OVER)

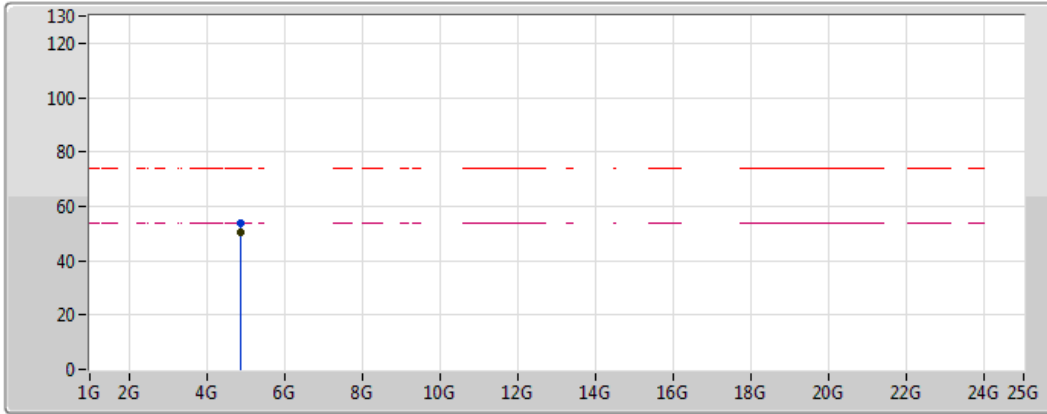
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3898G | 50.08 | 54.00 | -3.92 | 30.96 | 3 | Vertical | 338 | 1.24 | - |
| AV | 2.4362G | 117.06 | Inf | -Inf | 31.03 | 3 | Vertical | 338 | 1.24 | - |
| AV | 2.483502G | 47.16 | 54.00 | -6.84 | 31.17 | 3 | Vertical | 338 | 1.24 | - |
| PK | 2.3862G | 62.91 | 74.00 | -11.09 | 30.97 | 3 | Vertical | 338 | 1.24 | - |
| PK | 2.4362G | 120.90 | Inf | -Inf | 31.03 | 3 | Vertical | 338 | 1.24 | - |
| PK | 2.489G | 58.77 | 74.00 | -15.23 | 31.19 | 3 | Vertical | 338 | 1.24 | - |



802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

20180208
 EUT Z 2TX(Dipole)
 Setting 23.5
 01-J-6
 FSp
 Sample Z(±0.5 OVER)

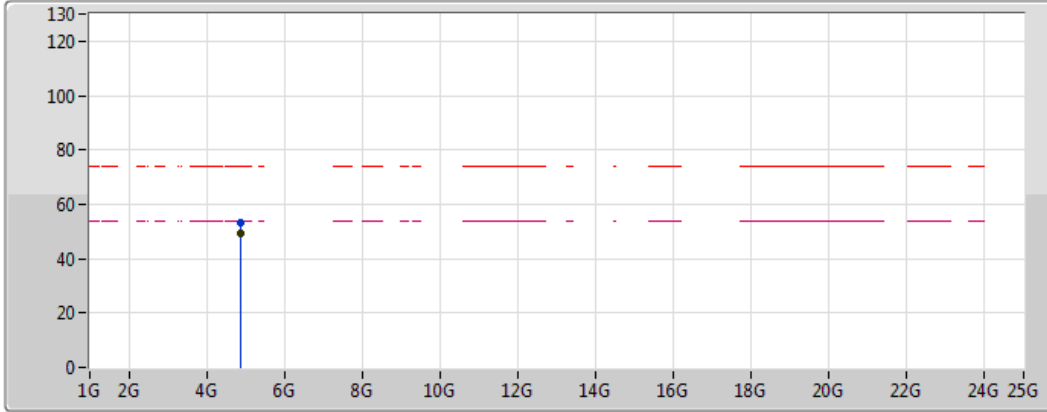
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.87396G | 50.47 | 54.00 | -3.53 | 4.20 | 3 | Vertical | 179 | 1.17 | - |
| PK | 4.87402G | 54.05 | 74.00 | -19.95 | 4.20 | 3 | Vertical | 179 | 1.17 | - |



802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

09/02/2018



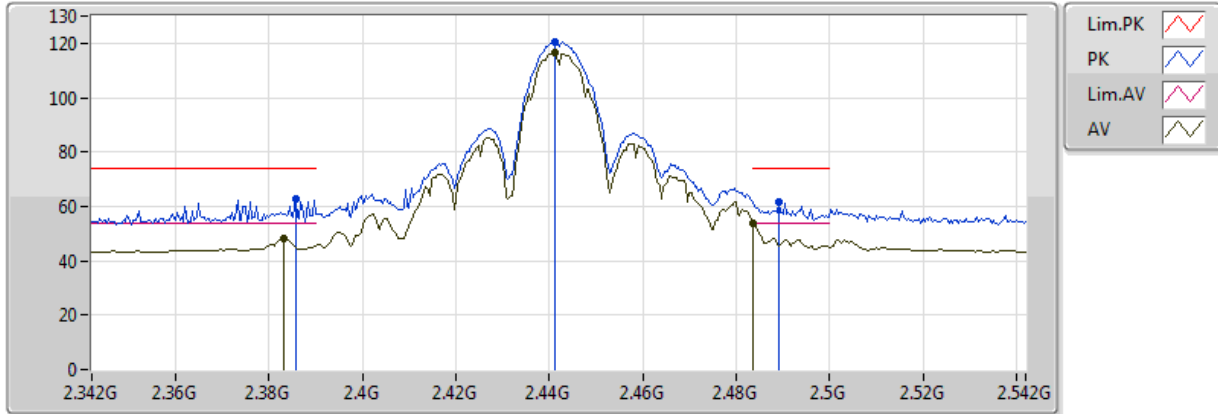
20180208
 EUT Z 2TX(Dipole)
 Setting 23.5
 01-J-6
 FSp
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.87394G | 49.14 | 54.00 | -4.86 | 4.14 | 3 | Horizontal | 132 | 1.19 | - |
| PK | 4.87392G | 53.22 | 74.00 | -20.78 | 4.14 | 3 | Horizontal | 132 | 1.19 | - |

802.11b_Nss1,(1Mbps)_2TX

2442MHz_TX

09/02/2018



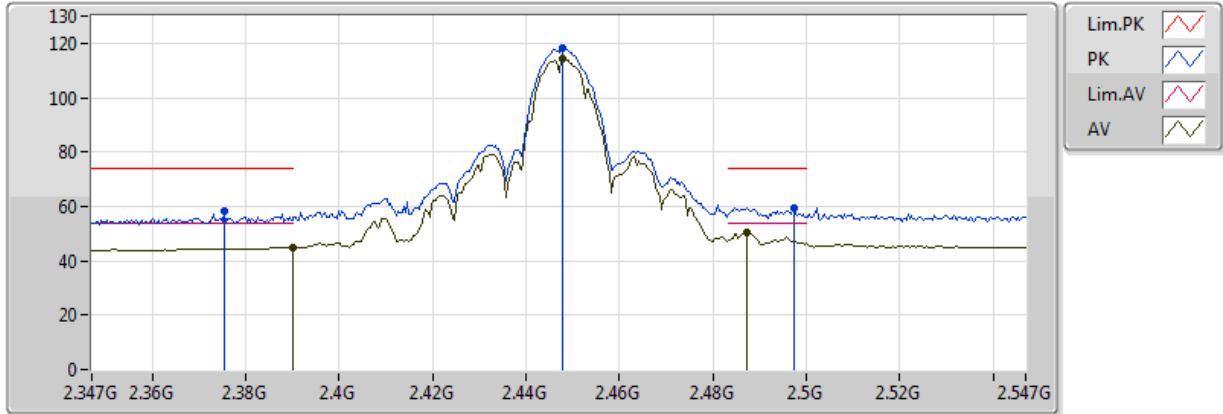
20180208
 EUT Z 2TX(Dipole)
 Setting 23.5
 01-J-6
 FSp
 Sample Z(±0.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3832G | 47.99 | 54.00 | -6.01 | 30.98 | 3 | Vertical | 339 | 1.24 | - |
| AV | 2.4412G | 116.67 | Inf | -Inf | 31.05 | 3 | Vertical | 339 | 1.24 | - |
| AV | 2.4836G | 53.86 | 54.00 | -0.14 | 31.17 | 3 | Vertical | 339 | 1.24 | - |
| PK | 2.3856G | 62.82 | 74.00 | -11.18 | 30.97 | 3 | Vertical | 339 | 1.24 | - |
| PK | 2.4412G | 120.49 | Inf | -Inf | 31.05 | 3 | Vertical | 339 | 1.24 | - |
| PK | 2.4892G | 61.69 | 74.00 | -12.31 | 31.19 | 3 | Vertical | 339 | 1.24 | - |

802.11b_Nss1,(1Mbps)_2TX

2447MHz_TX

09/02/2018



20180207
 EUT Z 2TX(Dipole)
 Setting 22.5
 06-J-6
 FSP
 Sample Z(10.5 OVER)

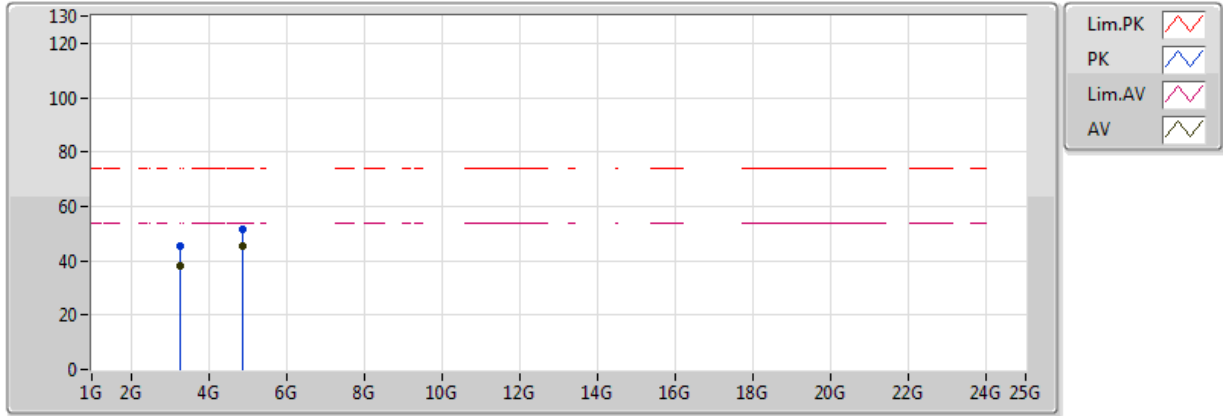
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 44.99 | 54.00 | -9.01 | 32.12 | 3 | Vertical | 41 | 1.42 | - |
| AV | 2.4478G | 114.39 | Inf | -Inf | 32.31 | 3 | Vertical | 41 | 1.42 | - |
| AV | 2.4874G | 50.40 | 54.00 | -3.60 | 32.43 | 3 | Vertical | 41 | 1.42 | - |
| PK | 2.3754G | 58.09 | 74.00 | -15.91 | 32.07 | 3 | Vertical | 41 | 1.42 | - |
| PK | 2.4478G | 118.40 | Inf | -Inf | 32.31 | 3 | Vertical | 41 | 1.42 | - |
| PK | 2.4974G | 59.45 | 74.00 | -14.55 | 32.47 | 3 | Vertical | 41 | 1.42 | - |



802.11b_Nss1,(1Mbps)_2TX

2447MHz_TX

09/02/2018



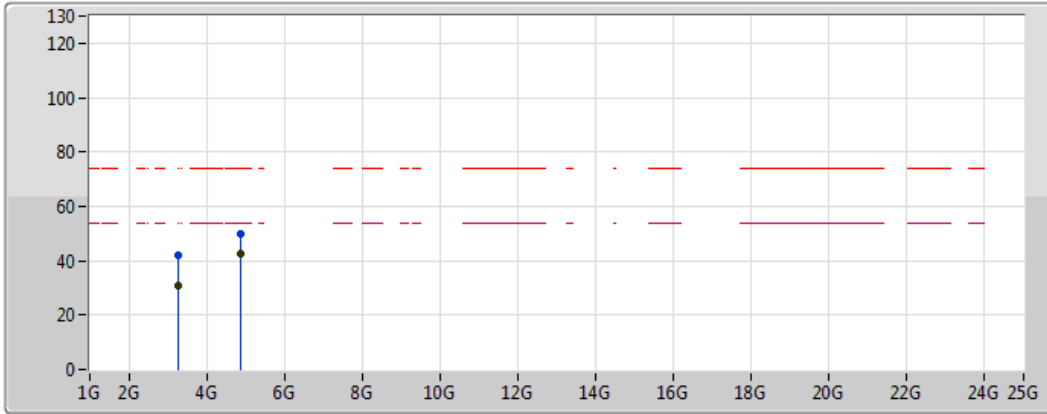
20180207
 EUT Z 2TX(Dipole)
 Setting 22.5
 06-J-6
 FSP
 Sample Z(±0.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 3.262647G | 38.37 | 54.00 | -15.63 | 1.57 | 3 | Vertical | 341 | 2.54 | - |
| AV | 4.89396G | 45.39 | 54.00 | -8.61 | 6.89 | 3 | Vertical | 162 | 1.39 | - |
| PK | 3.262567G | 45.57 | 74.00 | -28.43 | 1.57 | 3 | Vertical | 341 | 2.54 | - |
| PK | 4.89406G | 51.40 | 74.00 | -22.60 | 6.89 | 3 | Vertical | 162 | 1.39 | - |

802.11b_Nss1,(1Mbps)_2TX

2447MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red dashed line with a red zigzag icon
- PK: Blue dashed line with a blue zigzag icon
- Lim.AV: Magenta dashed line with a magenta zigzag icon
- AV: Black dashed line with a black zigzag icon

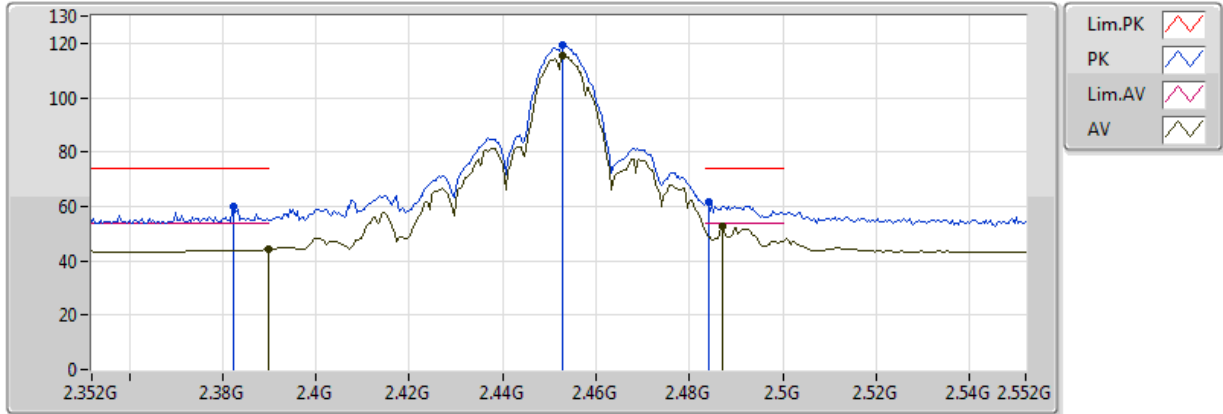
20180207
 EUT Z 2TX(Dipole)
 Setting 22.5
 06-J-6
 FSP
 Sample Z(±0.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 3.262647G | 30.71 | 54.00 | -23.29 | 1.57 | 3 | Horizontal | 98 | 1.56 | - |
| AV | 4.8939G | 42.55 | 54.00 | -11.45 | 6.89 | 3 | Horizontal | 149 | 1.01 | - |
| PK | 3.262627G | 41.97 | 74.00 | -32.03 | 1.57 | 3 | Horizontal | 98 | 1.56 | - |
| PK | 4.894G | 49.78 | 74.00 | -24.22 | 6.89 | 3 | Horizontal | 149 | 1.01 | - |

802.11b_Nss1,(1Mbps)_2TX

2452MHz_TX

09/02/2018



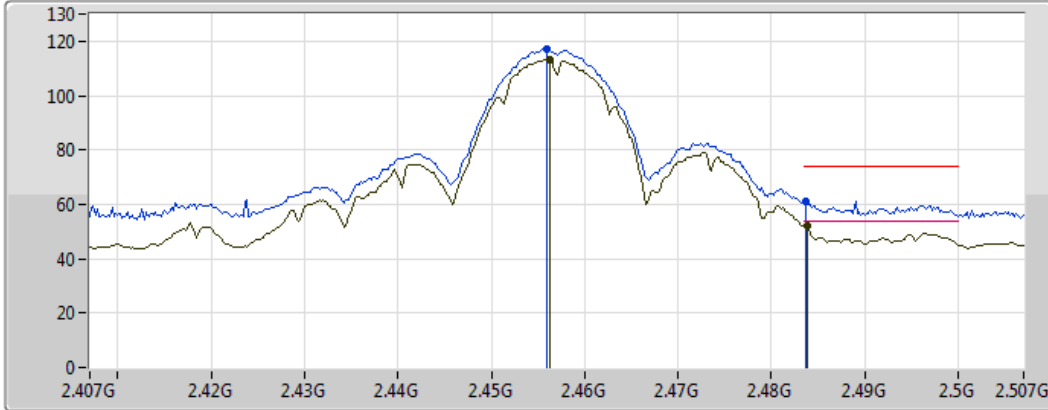
20180208
 EUT Z 2TX(Dipole)
 Setting 22.5
 01-J-6
 FSp
 Sample Z(±0.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 44.10 | 54.00 | -9.90 | 30.96 | 3 | Vertical | 9 | 1.15 | - |
| AV | 2.4528G | 115.29 | Inf | -Inf | 31.08 | 3 | Vertical | 9 | 1.15 | - |
| AV | 2.4872G | 52.64 | 54.00 | -1.36 | 31.18 | 3 | Vertical | 9 | 1.15 | - |
| PK | 2.3824G | 60.04 | 74.00 | -13.96 | 30.98 | 3 | Vertical | 9 | 1.15 | - |
| PK | 2.4528G | 119.25 | Inf | -Inf | 31.08 | 3 | Vertical | 9 | 1.15 | - |
| PK | 2.484G | 61.71 | 74.00 | -12.29 | 31.17 | 3 | Vertical | 9 | 1.15 | - |

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Red line with a valley icon
- AV: Blue line with a valley icon

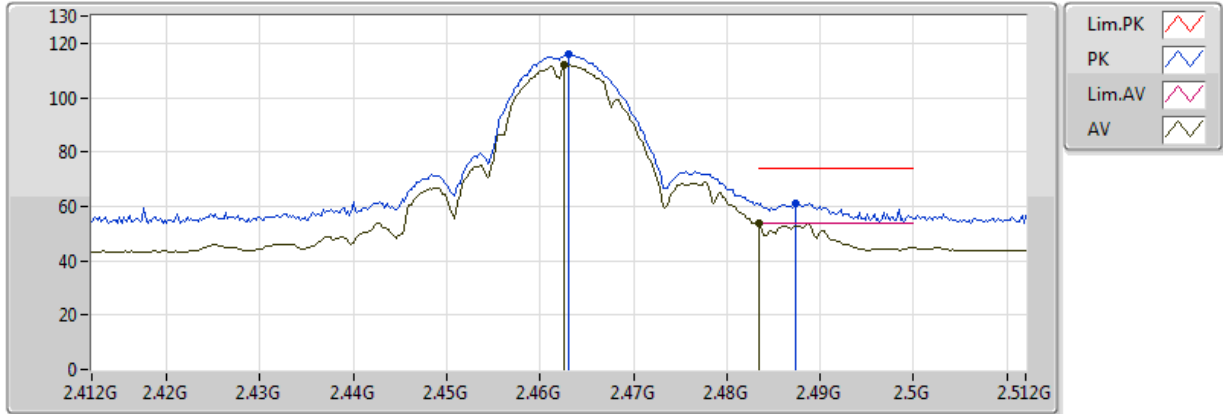
20180208
 EUT Z 2TX(Dipole)
 Setting 22
 01-J-6
 FSp
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.4562G | 113.24 | Inf | -Inf | 31.09 | 3 | Vertical | 306 | 1.64 | - |
| AV | 2.4838G | 52.27 | 54.00 | -1.73 | 31.17 | 3 | Vertical | 306 | 1.64 | - |
| PK | 2.456G | 117.30 | Inf | -Inf | 31.09 | 3 | Vertical | 306 | 1.64 | - |
| PK | 2.4836G | 61.10 | 74.00 | -12.90 | 31.17 | 3 | Vertical | 306 | 1.64 | - |

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 19.5
 01-J-6
 FSp
 Sample Z

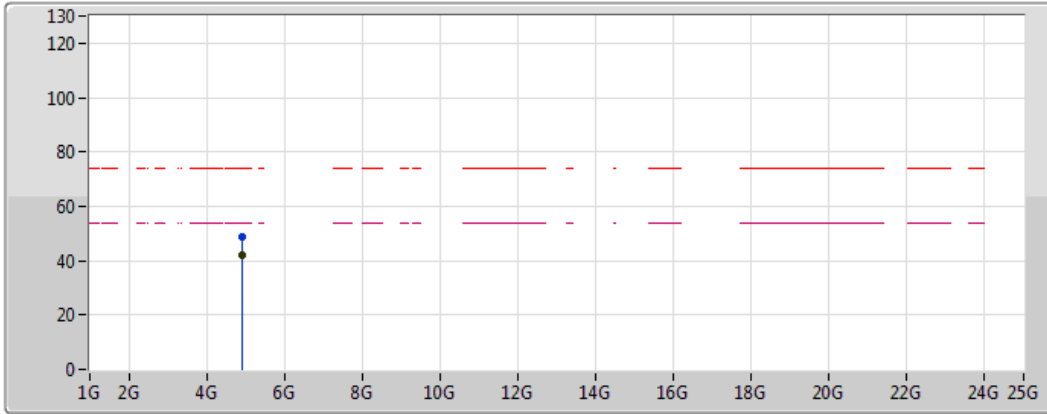
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.4626G | 111.88 | Inf | -Inf | 31.11 | 3 | Vertical | 311 | 1.05 | - |
| AV | 2.483502G | 53.88 | 54.00 | -0.12 | 31.17 | 3 | Vertical | 311 | 1.05 | - |
| PK | 2.463G | 116.07 | Inf | -Inf | 31.11 | 3 | Vertical | 311 | 1.05 | - |
| PK | 2.4874G | 60.94 | 74.00 | -13.06 | 31.18 | 3 | Vertical | 311 | 1.05 | - |



802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

08/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

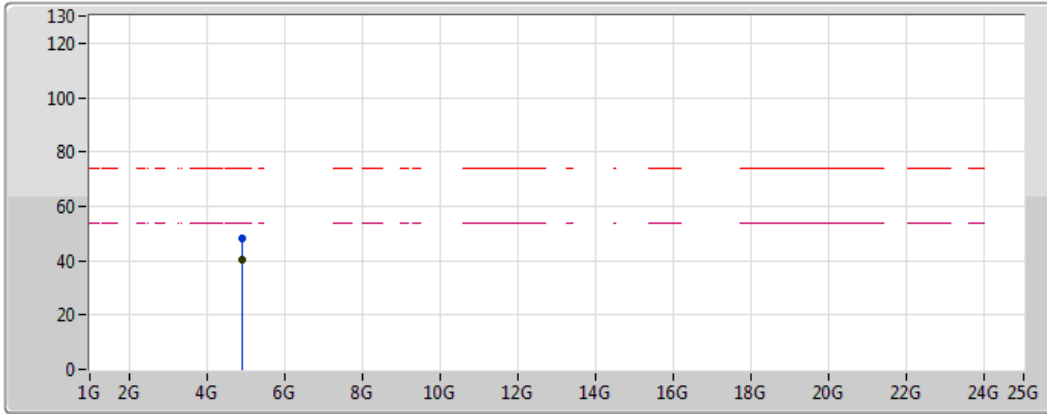
20180208
 EUT Z 2TX(Dipolo)
 Setting 19.5
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.92392G | 42.18 | 54.00 | -11.82 | 4.40 | 3 | Vertical | 164 | 1.59 | - |
| PK | 4.92402G | 48.92 | 74.00 | -25.08 | 4.40 | 3 | Vertical | 164 | 1.59 | - |

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

08/02/2018



Legend for plot:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

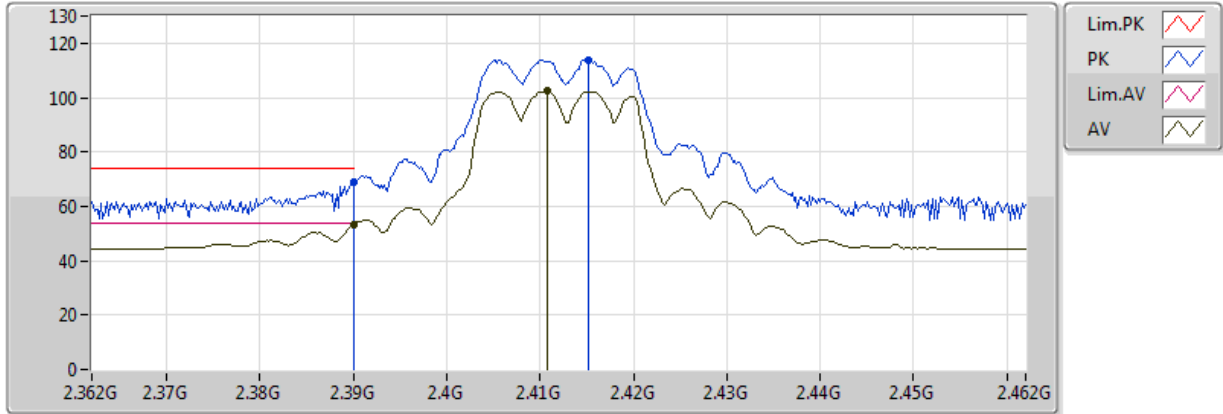
20180208
 EUT Z 2TX(Dipolo)
 Setting 19.5
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.92394G | 40.38 | 54.00 | -13.62 | 4.34 | 3 | Horizontal | 125 | 1.06 | - |
| PK | 4.92402G | 48.26 | 74.00 | -25.74 | 4.34 | 3 | Horizontal | 125 | 1.06 | - |

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

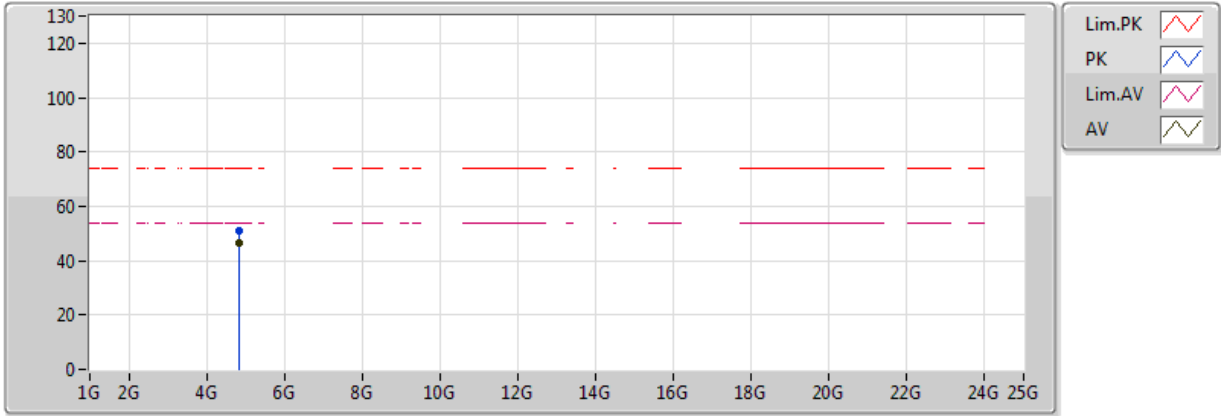
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 53.24 | 54.00 | -0.76 | 30.96 | 3 | Vertical | 313 | 1.50 | - |
| AV | 2.4108G | 102.29 | Inf | -Inf | 30.96 | 3 | Vertical | 313 | 1.50 | - |
| PK | 2.389998G | 68.84 | 74.00 | -5.16 | 30.96 | 3 | Vertical | 313 | 1.50 | - |
| PK | 2.4152G | 113.92 | Inf | -Inf | 30.97 | 3 | Vertical | 313 | 1.50 | - |



802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

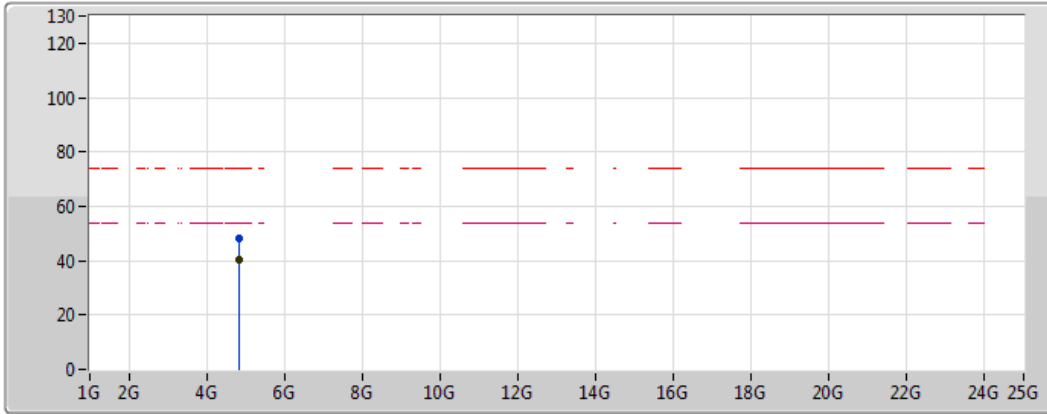
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.82396G | 46.76 | 54.00 | -7.24 | 4.00 | 3 | Vertical | 183 | 1.37 | - |
| PK | 4.82392G | 51.19 | 74.00 | -22.81 | 4.00 | 3 | Vertical | 183 | 1.37 | - |



802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

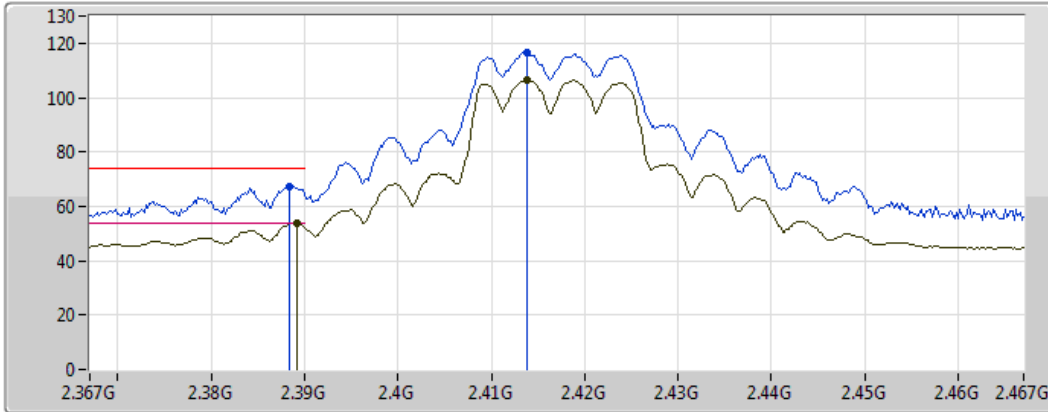
20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z





| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.82394G | 40.38 | 54.00 | -13.62 | 3.94 | 3 | Horizontal | 148 | 1.17 | - |
| PK | 4.8241G | 48.08 | 74.00 | -25.92 | 3.94 | 3 | Horizontal | 148 | 1.17 | - |

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

09/02/2018



| | |
|--------|---|
| Lim.PK |  |
| PK |  |
| Lim.AV |  |
| AV |  |

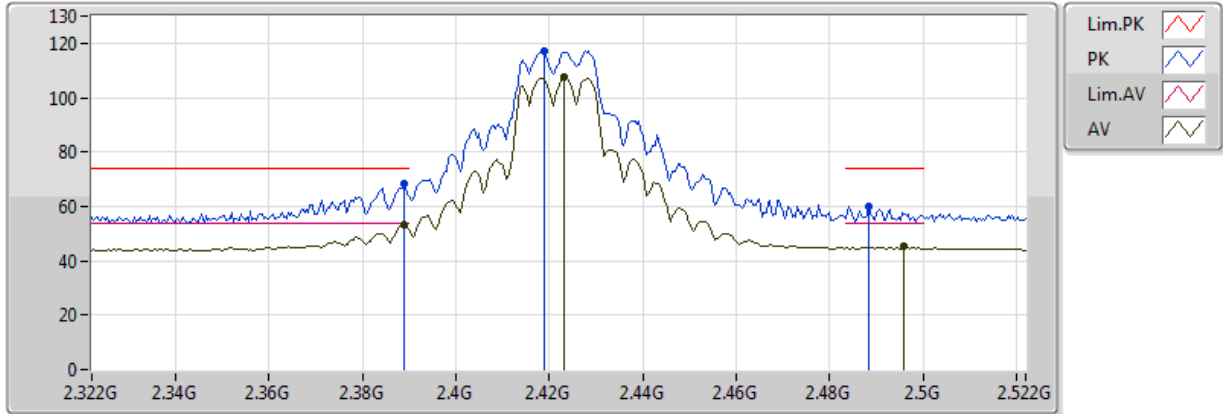
20180208
 EUT Z 2TX(Dipole)
 Setting 17
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3892G | 53.96 | 54.00 | -0.04 | 30.96 | 3 | Vertical | 319 | 1.23 | - |
| AV | 2.4138G | 106.43 | Inf | -Inf | 30.97 | 3 | Vertical | 319 | 1.23 | - |
| PK | 2.3884G | 67.47 | 74.00 | -6.53 | 30.96 | 3 | Vertical | 319 | 1.23 | - |
| PK | 2.4138G | 116.80 | Inf | -Inf | 30.97 | 3 | Vertical | 319 | 1.23 | - |

802.11g_Nss1,(6Mbps)_2TX

2422MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 18.5
 01-J-6
 FSp
 Sample Z

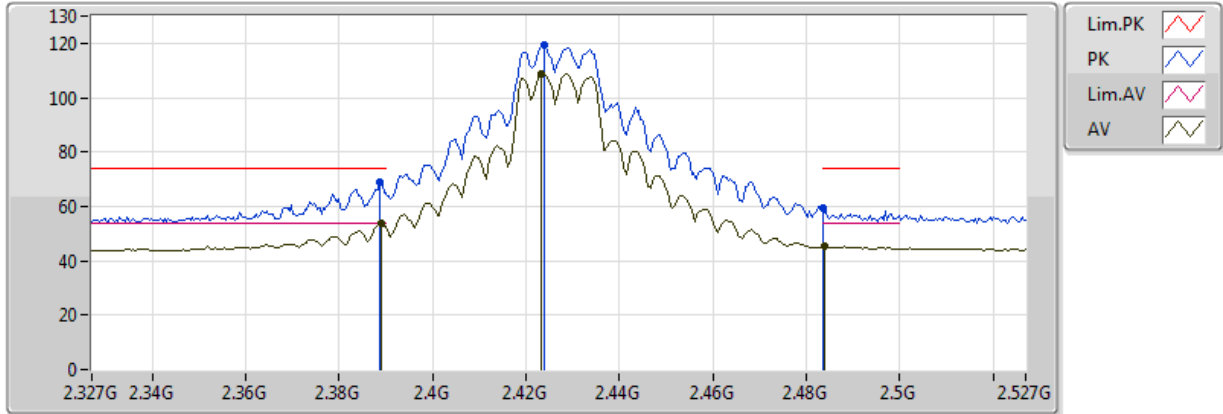
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3888G | 53.25 | 54.00 | -0.75 | 30.96 | 3 | Vertical | 315 | 1.46 | - |
| AV | 2.4232G | 107.49 | Inf | -Inf | 31.00 | 3 | Vertical | 315 | 1.46 | - |
| AV | 2.496G | 45.51 | 54.00 | -8.49 | 31.21 | 3 | Vertical | 315 | 1.46 | - |
| PK | 2.3888G | 68.12 | 74.00 | -5.88 | 30.96 | 3 | Vertical | 315 | 1.46 | - |
| PK | 2.4188G | 117.32 | Inf | -Inf | 30.98 | 3 | Vertical | 315 | 1.46 | - |
| PK | 2.4884G | 59.90 | 74.00 | -14.10 | 31.19 | 3 | Vertical | 315 | 1.46 | - |



802.11g_Nss1,(6Mbps)_2TX

2427MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 20
 01-J-6
 FSp
 Sample Z

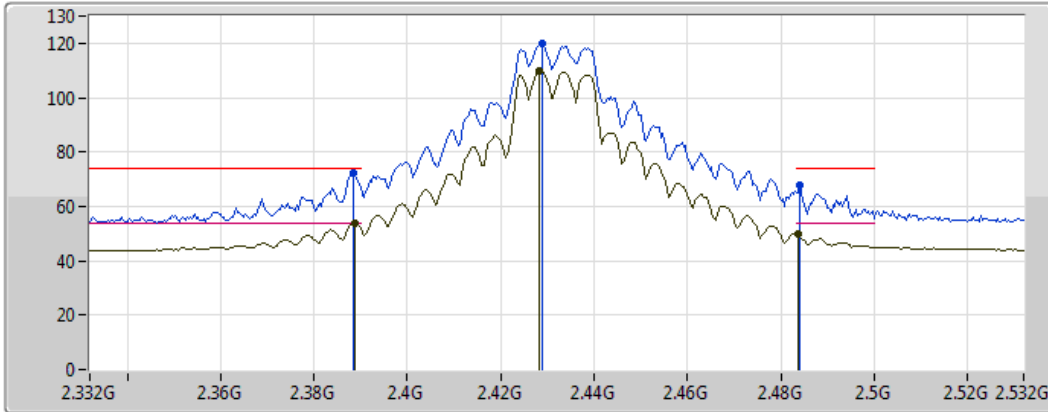
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389G | 53.64 | 54.00 | -0.36 | 30.96 | 3 | Vertical | 319 | 1.46 | - |
| AV | 2.4234G | 108.94 | Inf | -Inf | 31.00 | 3 | Vertical | 319 | 1.46 | - |
| AV | 2.4838G | 45.24 | 54.00 | -8.76 | 31.17 | 3 | Vertical | 319 | 1.46 | - |
| PK | 2.3886G | 68.89 | 74.00 | -5.11 | 30.96 | 3 | Vertical | 319 | 1.46 | - |
| PK | 2.4238G | 119.27 | Inf | -Inf | 31.00 | 3 | Vertical | 319 | 1.46 | - |
| PK | 2.483502G | 59.14 | 74.00 | -14.86 | 31.17 | 3 | Vertical | 319 | 1.46 | - |



802.11g_Nss1,(6Mbps)_2TX

2432MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Red line with a valley icon
- AV: Green line with a valley icon

20180208
 EUT Z 2TX(Dipole)
 Setting 21.5
 01-J-6
 FSp
 Sample Z

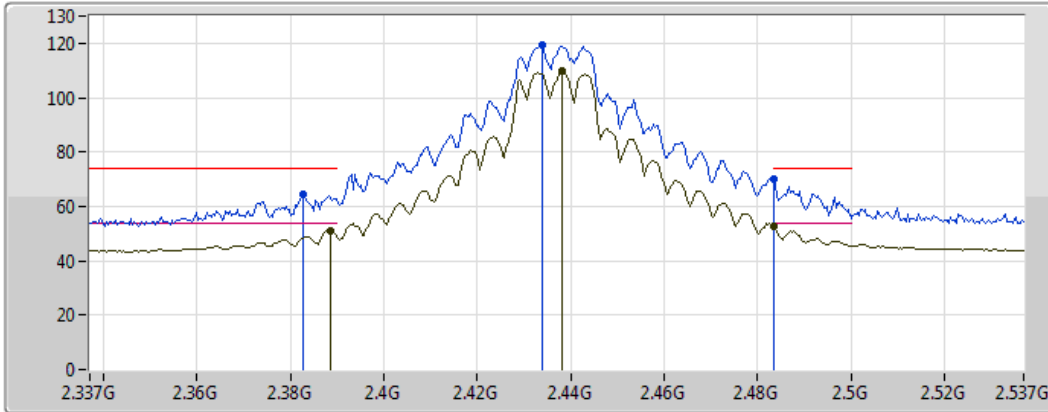
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3888G | 53.74 | 54.00 | -0.26 | 30.96 | 3 | Vertical | 318 | 1.47 | - |
| AV | 2.4284G | 109.66 | Inf | -Inf | 31.01 | 3 | Vertical | 318 | 1.47 | - |
| AV | 2.4836G | 49.71 | 54.00 | -4.29 | 31.17 | 3 | Vertical | 318 | 1.47 | - |
| PK | 2.3884G | 72.46 | 74.00 | -1.54 | 30.96 | 3 | Vertical | 318 | 1.47 | - |
| PK | 2.4288G | 120.17 | Inf | -Inf | 31.01 | 3 | Vertical | 318 | 1.47 | - |
| PK | 2.484G | 67.55 | 74.00 | -6.45 | 31.17 | 3 | Vertical | 318 | 1.47 | - |



802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Red line with a valley icon
- AV: Green line with a valley icon

20180208
 EUT Z 2TX(Dipole)
 Setting 21.5
 01-J-6
 FSp
 Sample Z(+10.5 OVER)

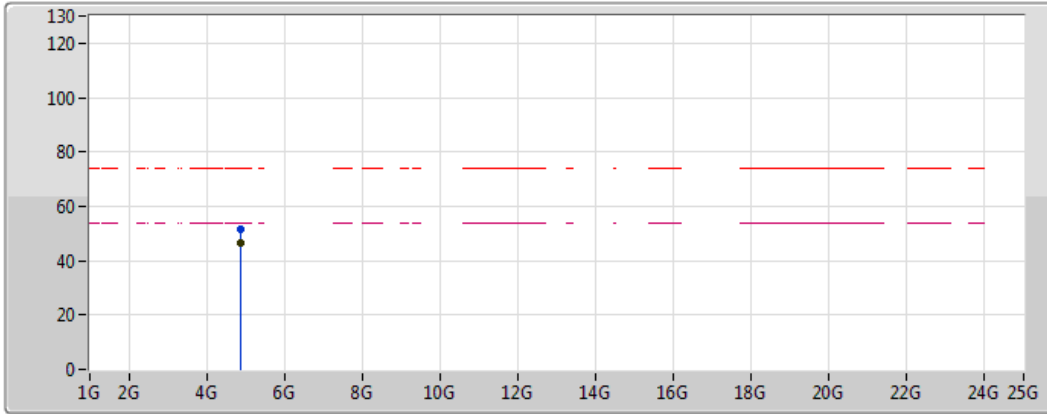
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3886G | 51.24 | 54.00 | -2.76 | 30.96 | 3 | Vertical | 314 | 1.36 | - |
| AV | 2.4382G | 109.84 | Inf | -Inf | 31.04 | 3 | Vertical | 314 | 1.36 | - |
| AV | 2.483502G | 52.89 | 54.00 | -1.11 | 31.17 | 3 | Vertical | 314 | 1.36 | - |
| PK | 2.3826G | 64.23 | 74.00 | -9.77 | 30.98 | 3 | Vertical | 314 | 1.36 | - |
| PK | 2.4338G | 119.34 | Inf | -Inf | 31.03 | 3 | Vertical | 314 | 1.36 | - |
| PK | 2.483502G | 70.06 | 74.00 | -3.94 | 31.17 | 3 | Vertical | 314 | 1.36 | - |



802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 21.5
 01-J-6
 FSp
 Sample Z(10.5 OVER)

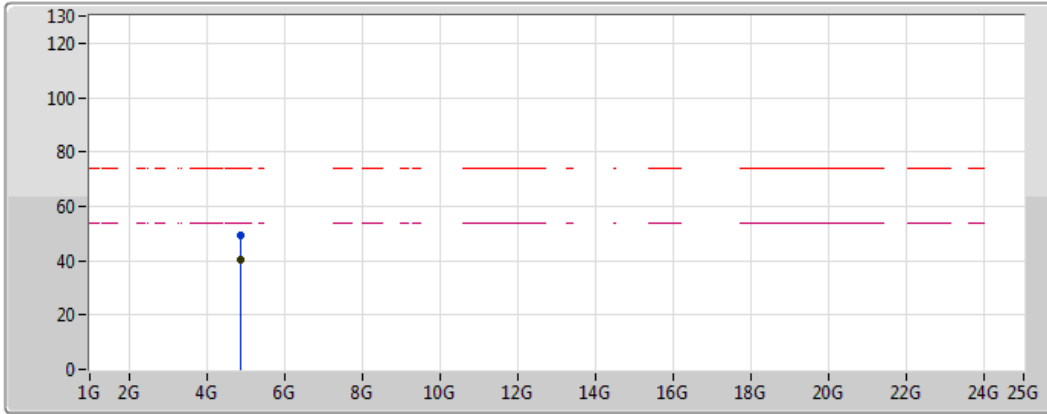
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.87392G | 46.26 | 54.00 | -7.74 | 4.20 | 3 | Vertical | 181 | 1.16 | - |
| PK | 4.87396G | 51.50 | 74.00 | -22.50 | 4.20 | 3 | Vertical | 181 | 1.16 | - |



802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

20180208
 EUT Z 2TX(Dipole)
 Setting 21.5
 01-J-6
 FSp
 Sample Z(10.5 OVER)

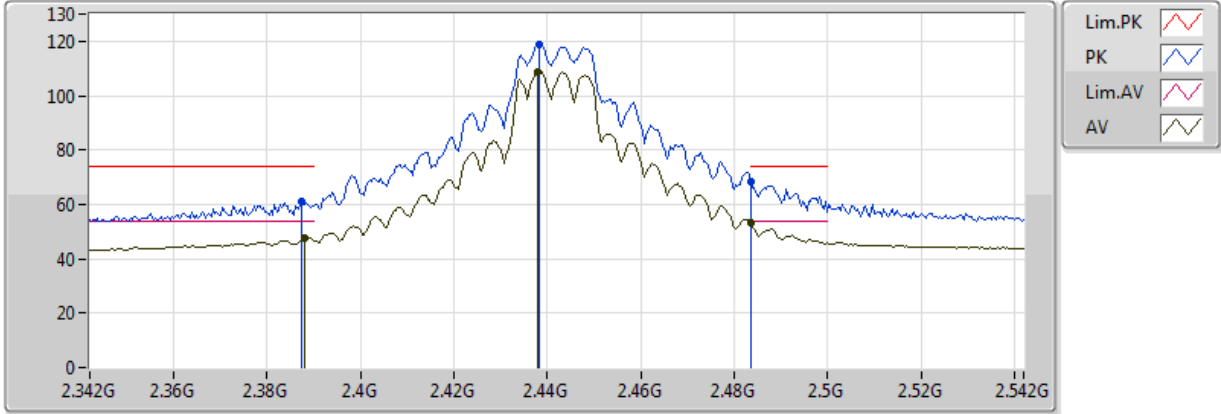
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.87396G | 40.52 | 54.00 | -13.48 | 4.14 | 3 | Horizontal | 147 | 1.13 | - |
| PK | 4.8739G | 49.06 | 74.00 | -24.94 | 4.14 | 3 | Horizontal | 147 | 1.13 | - |



802.11g_Nss1,(6Mbps)_2TX

2442MHz_TX

09/02/2018



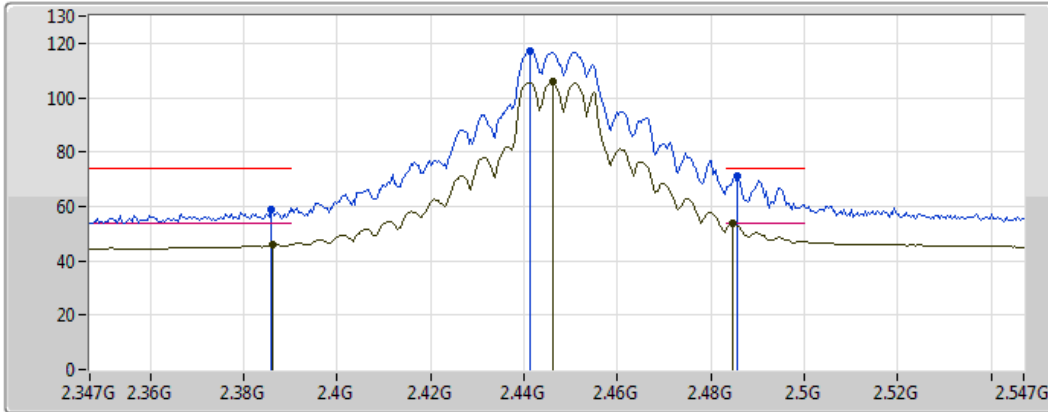
20180208
 EUT Z 2TX(Dipole)
 Setting 20.5
 01-J-6
 FSp
 Sample Z(±0.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.388G | 47.72 | 54.00 | -6.28 | 30.97 | 3 | Vertical | 315 | 1.37 | - |
| AV | 2.438G | 108.84 | Inf | -Inf | 31.04 | 3 | Vertical | 315 | 1.37 | - |
| AV | 2.4836G | 53.08 | 54.00 | -0.92 | 31.17 | 3 | Vertical | 315 | 1.37 | - |
| PK | 2.3872G | 60.90 | 74.00 | -13.10 | 30.97 | 3 | Vertical | 315 | 1.37 | - |
| PK | 2.4384G | 118.95 | Inf | -Inf | 31.04 | 3 | Vertical | 315 | 1.37 | - |
| PK | 2.4836G | 68.27 | 74.00 | -5.73 | 31.17 | 3 | Vertical | 315 | 1.37 | - |





802.11g_Nss1,(6Mbps)_2TX

2447MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK 
- PK 
- Lim.AV 
- AV 

20180207
 EUT Z 2TX(Dipole)
 Setting 20
 06-J-6
 FSP
 Sample Z

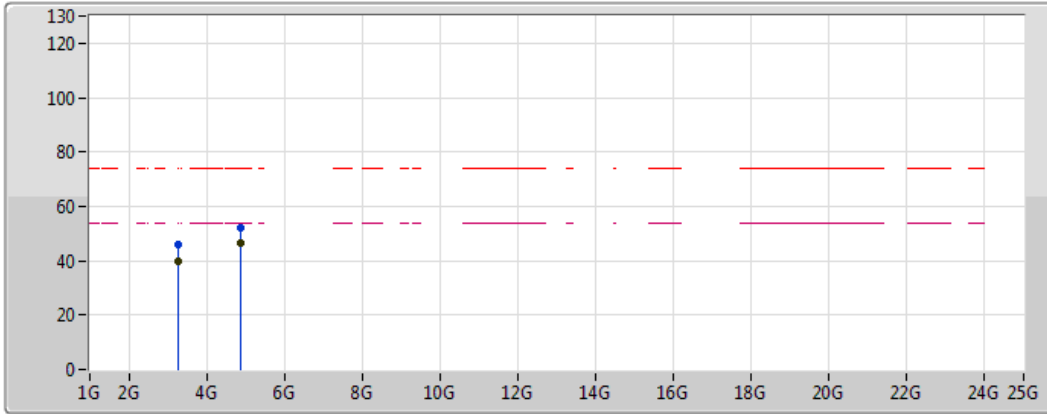
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3862G | 45.87 | 54.00 | -8.13 | 32.11 | 3 | Vertical | 320 | 1.46 | - |
| AV | 2.4462G | 105.73 | Inf | -Inf | 32.30 | 3 | Vertical | 320 | 1.46 | - |
| AV | 2.4846G | 53.77 | 54.00 | -0.23 | 32.42 | 3 | Vertical | 320 | 1.46 | - |
| PK | 2.3858G | 58.70 | 74.00 | -15.30 | 32.10 | 3 | Vertical | 320 | 1.46 | - |
| PK | 2.4414G | 117.19 | Inf | -Inf | 32.28 | 3 | Vertical | 320 | 1.46 | - |
| PK | 2.4858G | 71.44 | 74.00 | -2.56 | 32.43 | 3 | Vertical | 320 | 1.46 | - |



802.11g_Nss1,(6Mbps)_2TX

2447MHz_TX

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line with dot)
- Lim.AV (Magenta dashed line)
- AV (Black line with dot)

20180207
 EUT Z 2TX(Dipole)
 Setting 20
 06-J-6
 FSP
 Sample Z

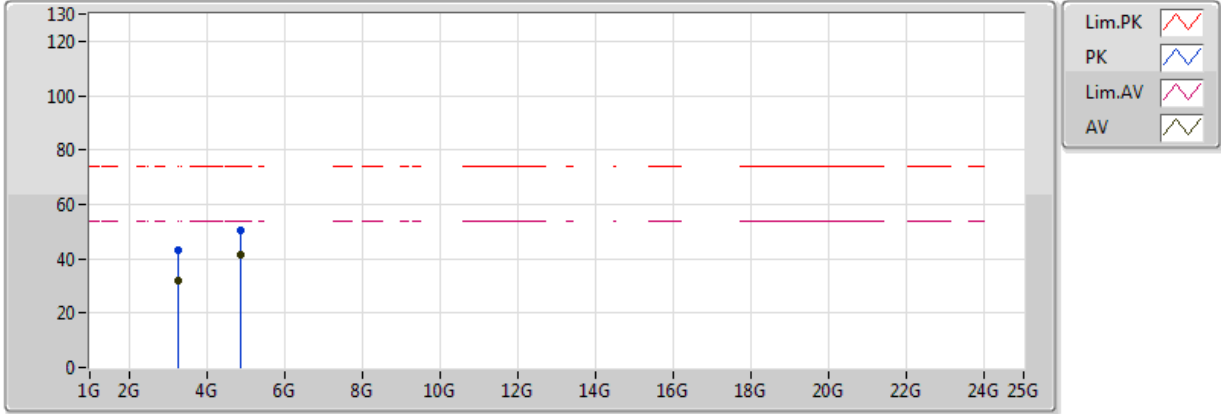
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 3.262607G | 40.04 | 54.00 | -13.96 | 1.57 | 3 | Vertical | 337 | 2.77 | - |
| AV | 4.894G | 46.24 | 54.00 | -7.76 | 4.29 | 3 | Vertical | 180 | 1.12 | - |
| PK | 3.262647G | 46.17 | 74.00 | -27.83 | 1.57 | 3 | Vertical | 337 | 2.77 | - |
| PK | 4.89382G | 52.30 | 74.00 | -21.70 | 4.28 | 3 | Vertical | 180 | 1.12 | - |



802.11g_Nss1,(6Mbps)_2TX

2447MHz_TX

09/02/2018



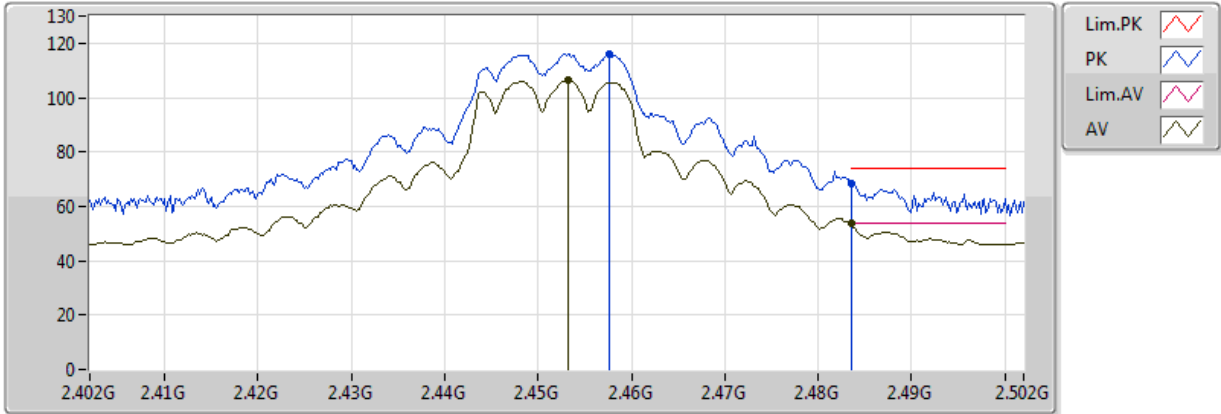
20180207
 EUT Z 2TX(Dipole)
 Setting 20
 06-J-6
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 3.262577G | 32.01 | 54.00 | -21.99 | 1.57 | 3 | Horizontal | 97 | 1.29 | - |
| AV | 4.894G | 41.64 | 54.00 | -12.36 | 4.29 | 3 | Horizontal | 148 | 1.08 | - |
| PK | 3.262807G | 43.03 | 74.00 | -30.97 | 1.57 | 3 | Horizontal | 97 | 1.29 | - |
| PK | 4.89382G | 50.65 | 74.00 | -23.35 | 4.28 | 3 | Horizontal | 148 | 1.08 | - |

802.11g_Nss1,(6Mbps)_2TX

2452MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 18
 01-J-6
 FSp
 Sample Z

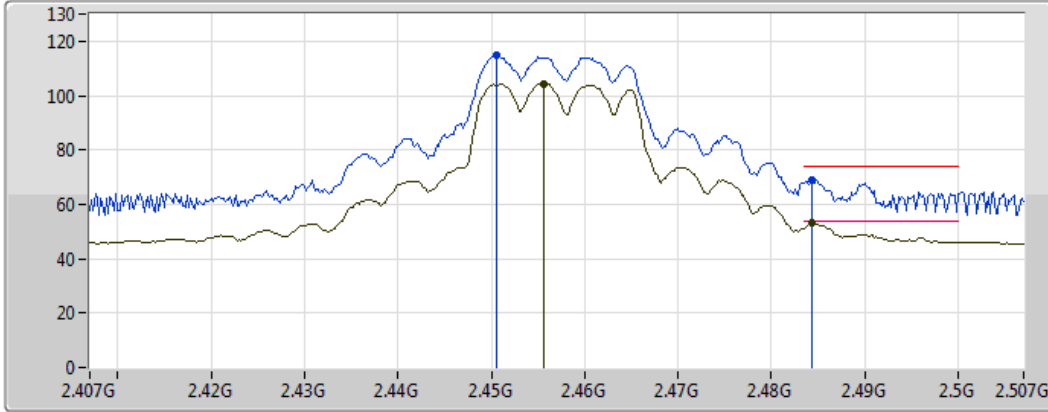
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.4532G | 106.59 | Inf | -Inf | 31.08 | 3 | Vertical | 313 | 1.24 | - |
| AV | 2.483502G | 53.56 | 54.00 | -0.44 | 31.17 | 3 | Vertical | 313 | 1.24 | - |
| PK | 2.4576G | 116.09 | Inf | -Inf | 31.10 | 3 | Vertical | 313 | 1.24 | - |
| PK | 2.483502G | 68.49 | 74.00 | -5.51 | 31.17 | 3 | Vertical | 313 | 1.24 | - |



802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Red line with a valley icon
- AV: Green line with a valley icon

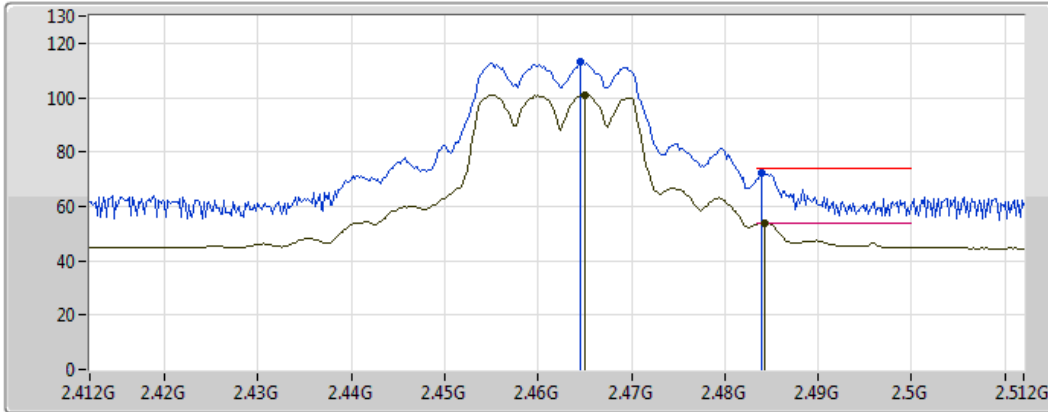
20180208
 EUT Z 2TX(Dipole)
 Setting 16
 01-J-6
 FSp
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.4556G | 104.48 | Inf | -Inf | 31.09 | 3 | Vertical | 314 | 1.27 | - |
| AV | 2.4844G | 53.09 | 54.00 | -0.91 | 31.17 | 3 | Vertical | 314 | 1.27 | - |
| PK | 2.4506G | 114.95 | Inf | -Inf | 31.08 | 3 | Vertical | 314 | 1.27 | - |
| PK | 2.4844G | 68.88 | 74.00 | -5.12 | 31.17 | 3 | Vertical | 314 | 1.27 | - |

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Pink line with a peak icon
- AV: Green line with a peak icon

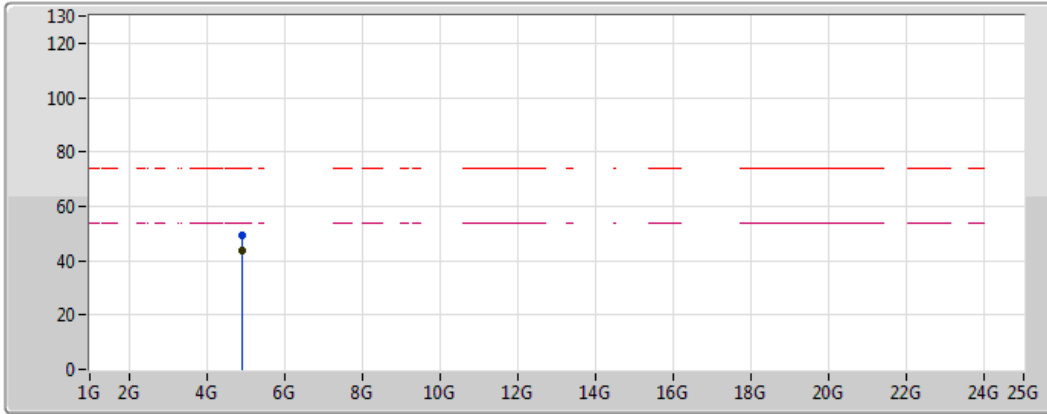
20180208
 EUT Z 2TX(Dipole)
 Setting 14
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.465G | 100.96 | Inf | -Inf | 31.12 | 3 | Vertical | 312 | 1.24 | - |
| AV | 2.4842G | 53.91 | 54.00 | -0.09 | 31.17 | 3 | Vertical | 312 | 1.24 | - |
| PK | 2.4646G | 112.97 | Inf | -Inf | 31.12 | 3 | Vertical | 312 | 1.24 | - |
| PK | 2.484G | 72.45 | 74.00 | -1.55 | 31.17 | 3 | Vertical | 312 | 1.24 | - |

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

20180208
 EUT Z 2TX(Dipole)
 Setting 14
 01-J-6
 FSp
 Sample Z

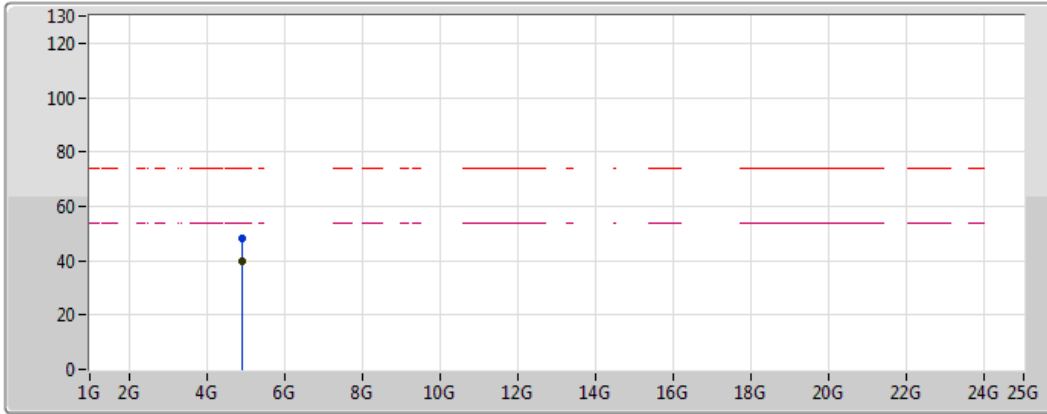
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.92394G | 43.75 | 54.00 | -10.25 | 4.40 | 3 | Vertical | 180 | 1.09 | - |
| PK | 4.92404G | 49.55 | 74.00 | -24.45 | 4.40 | 3 | Vertical | 180 | 1.09 | - |



802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

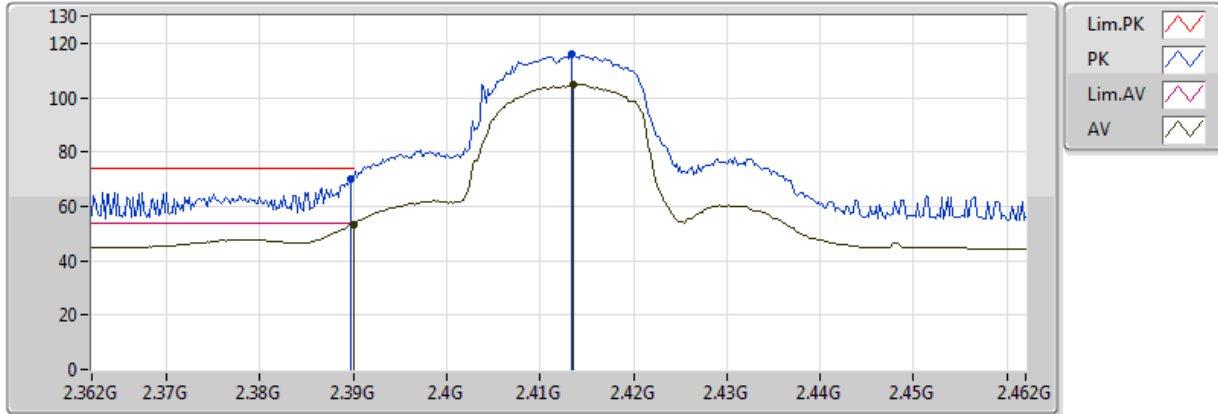
20180208
 EUT Z 2TX(Dipole)
 Setting 14
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.92394G | 39.73 | 54.00 | -14.27 | 4.34 | 3 | Horizontal | 147 | 1.03 | - |
| PK | 4.92384G | 48.04 | 74.00 | -25.96 | 4.34 | 3 | Horizontal | 147 | 1.03 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

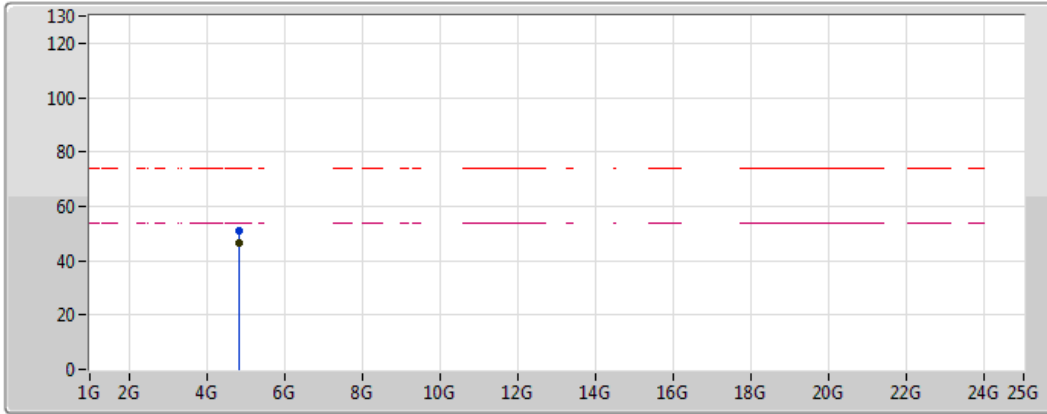
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 53.38 | 54.00 | -0.62 | 30.96 | 3 | Vertical | 8 | 1.12 | - |
| AV | 2.4136G | 104.88 | Inf | -Inf | 30.97 | 3 | Vertical | 8 | 1.12 | - |
| PK | 2.3898G | 70.11 | 74.00 | -3.89 | 30.96 | 3 | Vertical | 8 | 1.12 | - |
| PK | 2.4134G | 116.13 | Inf | -Inf | 30.97 | 3 | Vertical | 8 | 1.12 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

09/02/2018



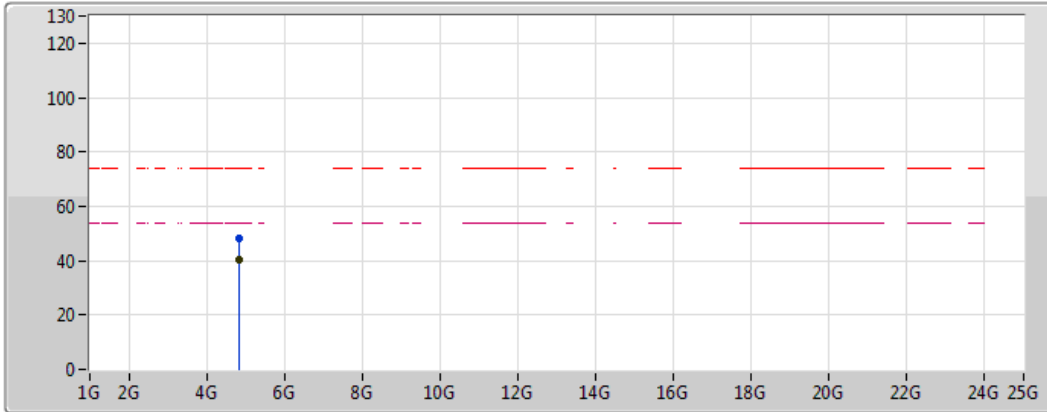
20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.82396G | 46.56 | 54.00 | -7.44 | 4.00 | 3 | Vertical | 181 | 1.03 | - |
| PK | 4.82402G | 50.97 | 74.00 | -23.03 | 4.00 | 3 | Vertical | 181 | 1.03 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line with dot)
- Lim.AV (Magenta dashed line)
- AV (Black line)

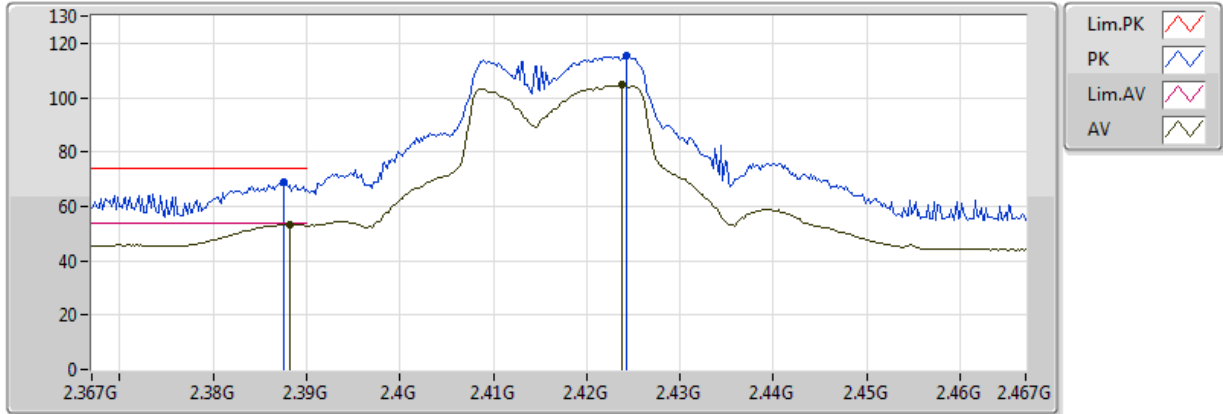
20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.82394G | 40.36 | 54.00 | -13.64 | 3.94 | 3 | Horizontal | 149 | 1.00 | - |
| PK | 4.8238G | 48.16 | 74.00 | -25.84 | 3.94 | 3 | Horizontal | 149 | 1.00 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

09/02/2018



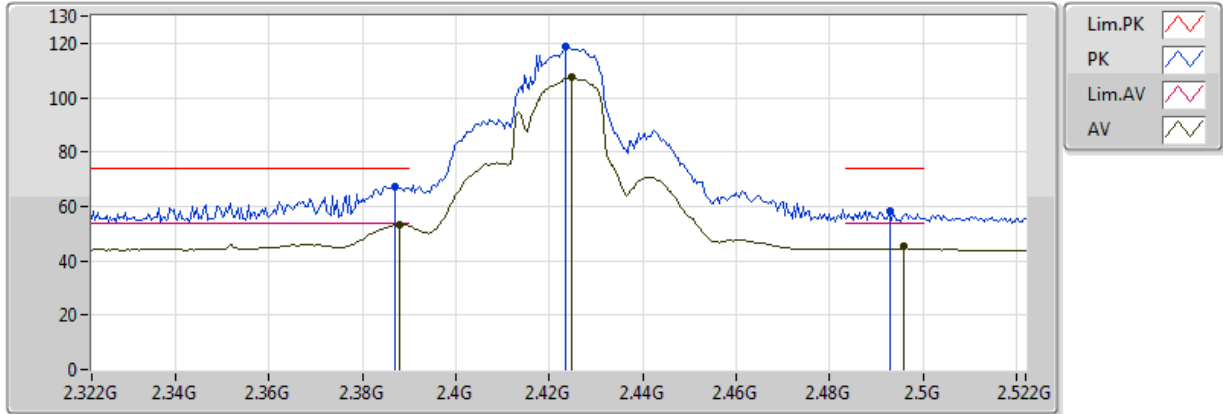
20180208
 EUT Z 2TX(Dipole)
 Setting 17
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3882G | 53.42 | 54.00 | -0.58 | 30.97 | 3 | Vertical | 2 | 1.13 | - |
| AV | 2.4238G | 104.56 | Inf | -Inf | 31.00 | 3 | Vertical | 2 | 1.13 | - |
| PK | 2.3876G | 68.65 | 74.00 | -5.35 | 30.97 | 3 | Vertical | 2 | 1.13 | - |
| PK | 2.4242G | 115.44 | Inf | -Inf | 31.00 | 3 | Vertical | 2 | 1.13 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2422MHz_TX

09/02/2018



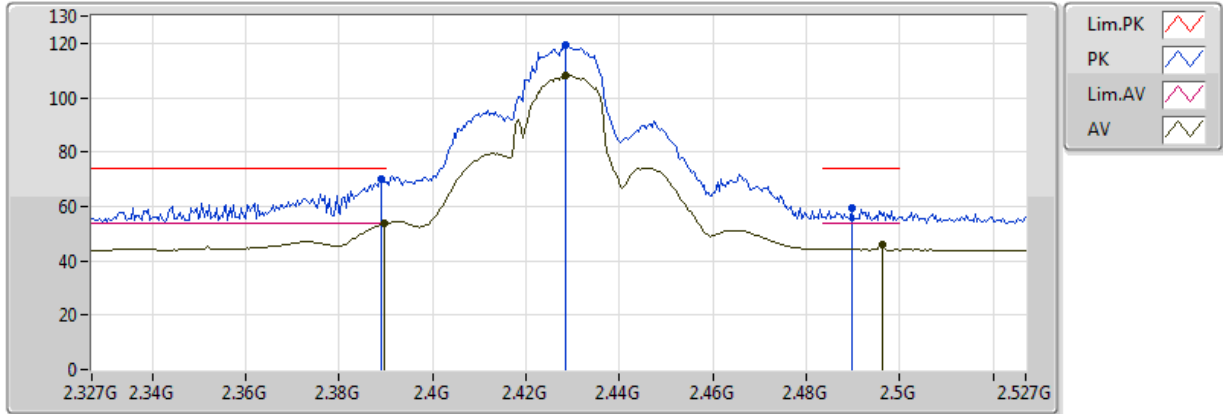
20180208
 EUT Z 2TX(Dipole)
 Setting 18.5
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.388G | 53.37 | 54.00 | -0.63 | 30.97 | 3 | Vertical | 343 | 1.04 | - |
| AV | 2.4248G | 107.39 | Inf | -Inf | 31.00 | 3 | Vertical | 343 | 1.04 | - |
| AV | 2.496G | 45.45 | 54.00 | -8.55 | 31.21 | 3 | Vertical | 343 | 1.04 | - |
| PK | 2.3868G | 67.25 | 74.00 | -6.75 | 30.97 | 3 | Vertical | 343 | 1.04 | - |
| PK | 2.4236G | 118.69 | Inf | -Inf | 31.00 | 3 | Vertical | 343 | 1.04 | - |
| PK | 2.4928G | 58.46 | 74.00 | -15.54 | 31.20 | 3 | Vertical | 343 | 1.04 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2427MHz_TX

09/02/2018



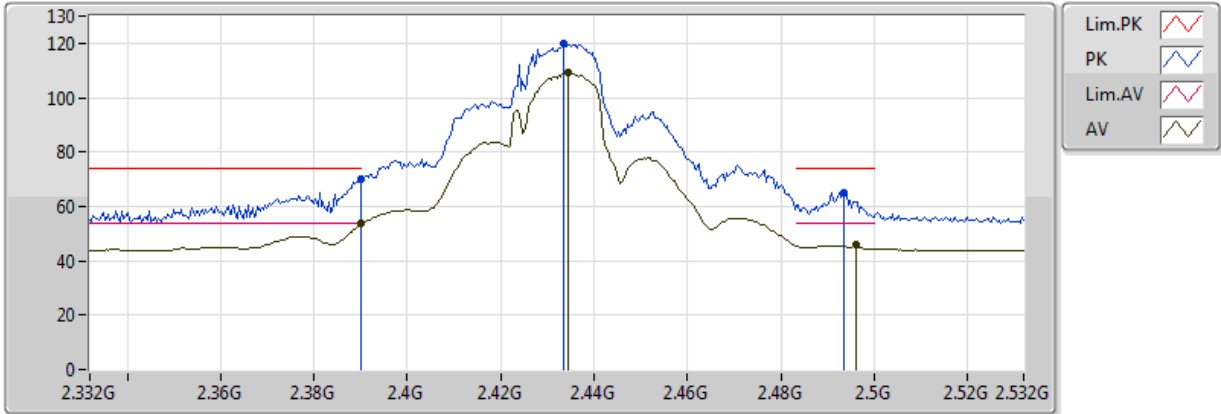
20180208
 EUT Z 2TX(Dipole)
 Setting 19.5
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3898G | 53.64 | 54.00 | -0.36 | 30.96 | 3 | Vertical | 342 | 1.25 | - |
| AV | 2.4286G | 108.03 | Inf | -Inf | 31.01 | 3 | Vertical | 342 | 1.25 | - |
| AV | 2.4962G | 45.73 | 54.00 | -8.27 | 31.21 | 3 | Vertical | 342 | 1.25 | - |
| PK | 2.389G | 69.80 | 74.00 | -4.20 | 30.96 | 3 | Vertical | 342 | 1.25 | - |
| PK | 2.4286G | 119.22 | Inf | -Inf | 31.01 | 3 | Vertical | 342 | 1.25 | - |
| PK | 2.4898G | 59.30 | 74.00 | -14.70 | 31.19 | 3 | Vertical | 342 | 1.25 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2432MHz_TX

09/02/2018



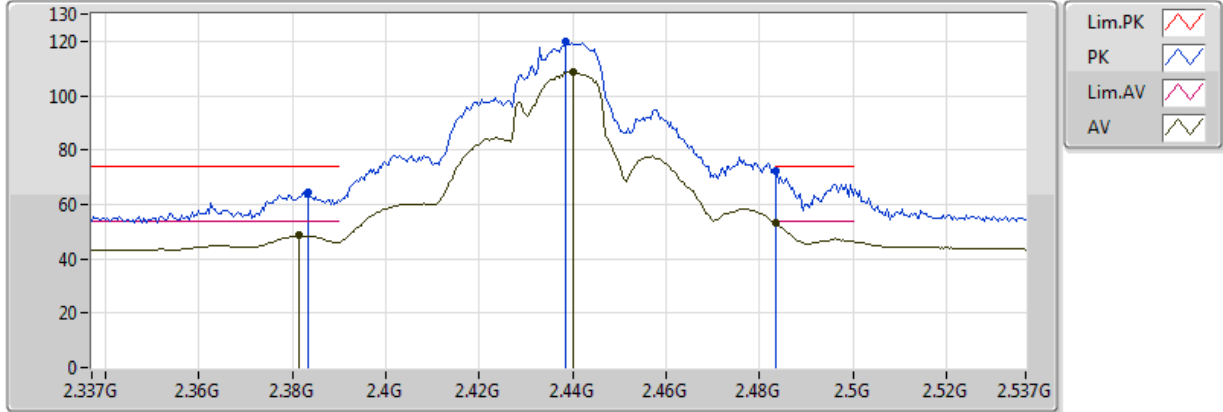
20180208
 EUT Z 2TX(Dipole)
 Setting 21
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 53.54 | 54.00 | -0.46 | 30.96 | 3 | Vertical | 343 | 1.23 | - |
| AV | 2.4344G | 109.14 | Inf | -Inf | 31.03 | 3 | Vertical | 343 | 1.23 | - |
| AV | 2.496G | 45.84 | 54.00 | -8.16 | 31.21 | 3 | Vertical | 343 | 1.23 | - |
| PK | 2.389998G | 69.96 | 74.00 | -4.04 | 30.96 | 3 | Vertical | 343 | 1.23 | - |
| PK | 2.4336G | 120.10 | Inf | -Inf | 31.03 | 3 | Vertical | 343 | 1.23 | - |
| PK | 2.4936G | 64.95 | 74.00 | -9.05 | 31.20 | 3 | Vertical | 343 | 1.23 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

09/02/2018



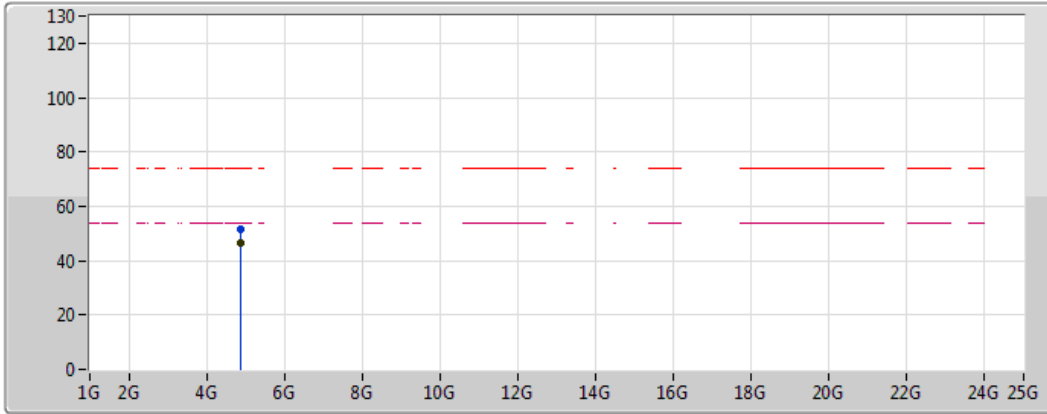
20180208
 EUT Z 2TX(Dipole)
 Setting 21.5
 01-J-6
 FSp
 Sample Z(±0.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3814G | 48.53 | 54.00 | -5.47 | 30.99 | 3 | Vertical | 312 | 1.38 | - |
| AV | 2.4402G | 108.89 | Inf | -Inf | 31.05 | 3 | Vertical | 312 | 1.38 | - |
| AV | 2.483502G | 53.19 | 54.00 | -0.81 | 31.17 | 3 | Vertical | 312 | 1.38 | - |
| PK | 2.3834G | 64.30 | 74.00 | -9.70 | 30.98 | 3 | Vertical | 312 | 1.38 | - |
| PK | 2.4386G | 120.15 | Inf | -Inf | 31.04 | 3 | Vertical | 312 | 1.38 | - |
| PK | 2.483502G | 72.13 | 74.00 | -1.87 | 31.17 | 3 | Vertical | 312 | 1.38 | - |





802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

09/02/2018



Legend:

- Lim.PK 
- PK 
- Lim.AV 
- AV 

20180208
 EUT Z 2TX(Dipole)
 Setting 21.5
 01-J-6
 FSp
 Sample Z(10.5 OVER)

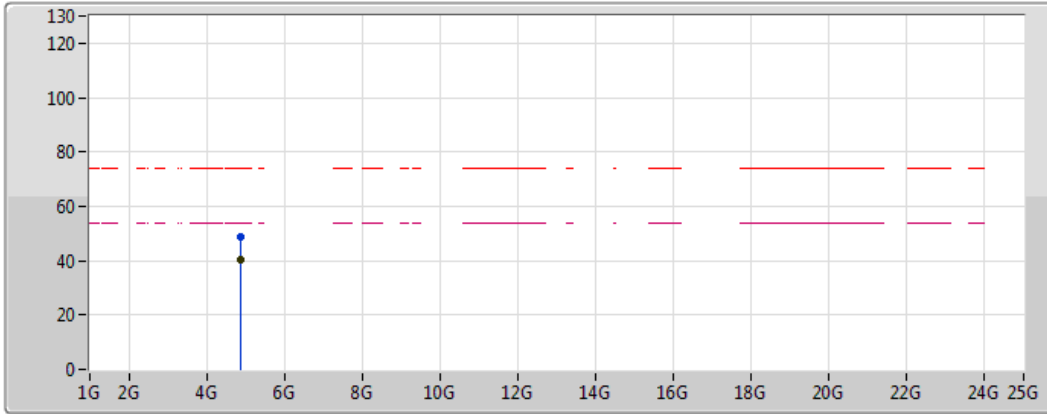
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.87392G | 46.27 | 54.00 | -7.73 | 4.20 | 3 | Vertical | 180 | 1.15 | - |
| PK | 4.87392G | 51.36 | 74.00 | -22.64 | 4.20 | 3 | Vertical | 180 | 1.15 | - |



802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

09/02/2018



Legend for plot:

- Lim.PK (Red dashed line)
- PK (Blue line with peak marker)
- Lim.AV (Magenta dashed line)
- AV (Black line with peak marker)

20180208
 EUT Z 2TX(Dipole)
 Setting 21.5
 01-J-6
 FSp
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.87396G | 40.35 | 54.00 | -13.65 | 4.14 | 3 | Horizontal | 149 | 1.01 | - |
| PK | 4.87406G | 49.02 | 74.00 | -24.98 | 4.14 | 3 | Horizontal | 149 | 1.01 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2442MHz_TX

09/02/2018



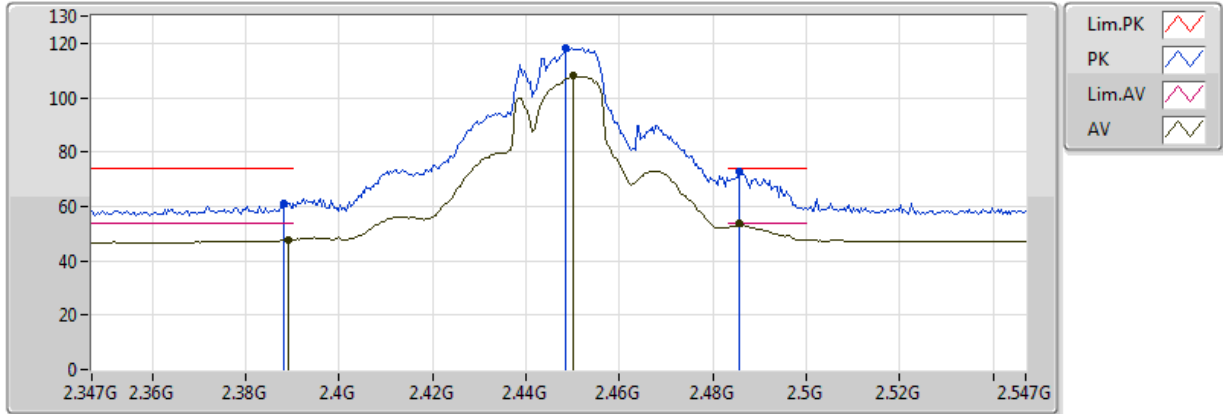
20180208
 EUT Z 2TX(Dipole)
 Setting 20
 01-J-6
 FSp
 Sample Z(±0.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3884G | 47.32 | 54.00 | -6.68 | 30.96 | 3 | Vertical | 315 | 1.36 | - |
| AV | 2.4452G | 107.06 | Inf | -Inf | 31.06 | 3 | Vertical | 315 | 1.36 | - |
| AV | 2.4836G | 52.41 | 54.00 | -1.59 | 31.17 | 3 | Vertical | 315 | 1.36 | - |
| PK | 2.384G | 62.76 | 74.00 | -11.24 | 30.98 | 3 | Vertical | 315 | 1.36 | - |
| PK | 2.4472G | 117.85 | Inf | -Inf | 31.07 | 3 | Vertical | 315 | 1.36 | - |
| PK | 2.486G | 71.28 | 74.00 | -2.72 | 31.18 | 3 | Vertical | 315 | 1.36 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2447MHz_TX

09/02/2018



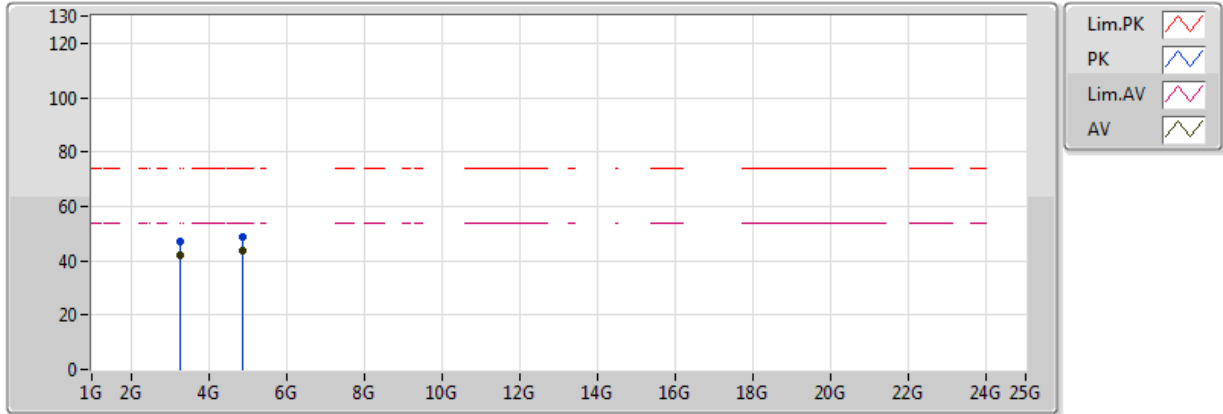
20180207
EUT Z 2TX(Dipole)
Setting 19.5
01-E-2
FSU
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389G | 47.82 | 54.00 | -6.18 | 30.96 | 3 | Vertical | 315 | 1.27 | - |
| AV | 2.4502G | 107.91 | Inf | -Inf | 31.08 | 3 | Vertical | 315 | 1.27 | - |
| AV | 2.4858G | 53.59 | 54.00 | -0.41 | 31.18 | 3 | Vertical | 315 | 1.27 | - |
| PK | 2.3882G | 61.25 | 74.00 | -12.75 | 30.97 | 3 | Vertical | 315 | 1.27 | - |
| PK | 2.4486G | 118.32 | Inf | -Inf | 31.07 | 3 | Vertical | 315 | 1.27 | - |
| PK | 2.4858G | 73.09 | 74.00 | -0.91 | 31.18 | 3 | Vertical | 315 | 1.27 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2447MHz_TX

09/02/2018



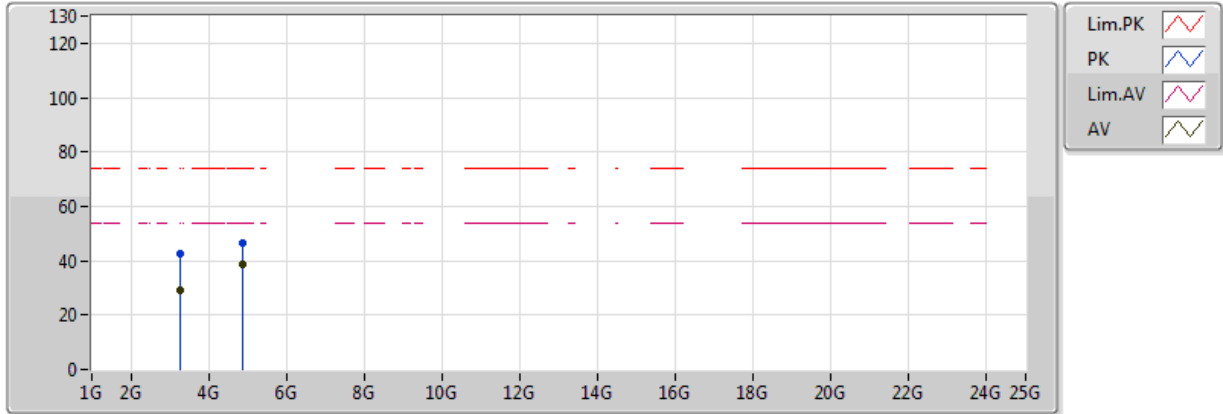
20180207
 EUT Z 2TX(Dipole)
 Setting 19.5
 01-E-2
 FSU
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 3.262607G | 41.88 | 54.00 | -12.12 | -0.02 | 3 | Vertical | 336 | 2.64 | - |
| AV | 4.89394G | 43.79 | 54.00 | -10.21 | 4.29 | 3 | Vertical | 180 | 1.14 | - |
| PK | 3.262367G | 46.91 | 74.00 | -27.09 | -0.02 | 3 | Vertical | 336 | 2.64 | - |
| PK | 4.894G | 48.92 | 74.00 | -25.08 | 4.29 | 3 | Vertical | 180 | 1.14 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2447MHz_TX

09/02/2018



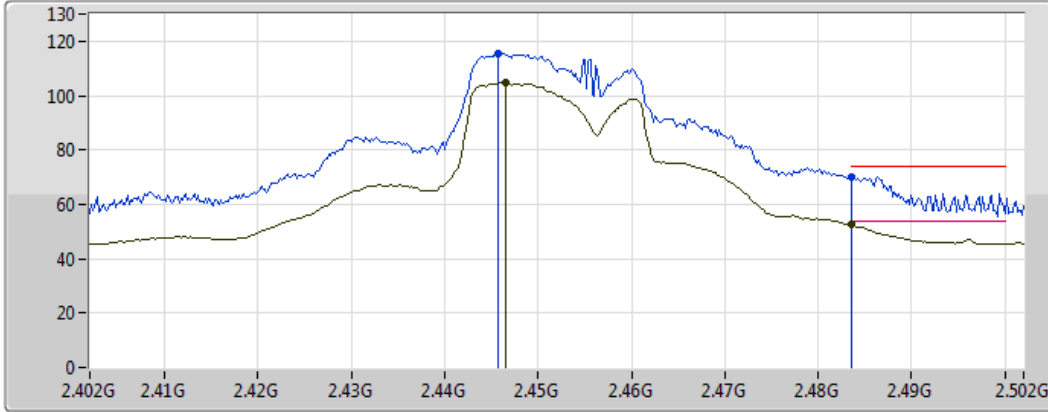
20180207
 EUT Z 2TX(Dipole)
 Setting 19.5
 01-E-2
 FSU
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 3.262607G | 29.17 | 54.00 | -24.83 | -0.07 | 3 | Horizontal | 326 | 1.05 | - |
| AV | 4.89394G | 38.51 | 54.00 | -15.49 | 4.23 | 3 | Horizontal | 147 | 1.06 | - |
| PK | 3.264707G | 42.73 | 74.00 | -31.27 | -0.06 | 3 | Horizontal | 326 | 1.05 | - |
| PK | 4.89418G | 46.69 | 74.00 | -27.31 | 4.23 | 3 | Horizontal | 147 | 1.06 | - |





802.11n HT20_Nss1,(MCS0)_2TX

2452MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK 
- PK 
- Lim.AV 
- AV 

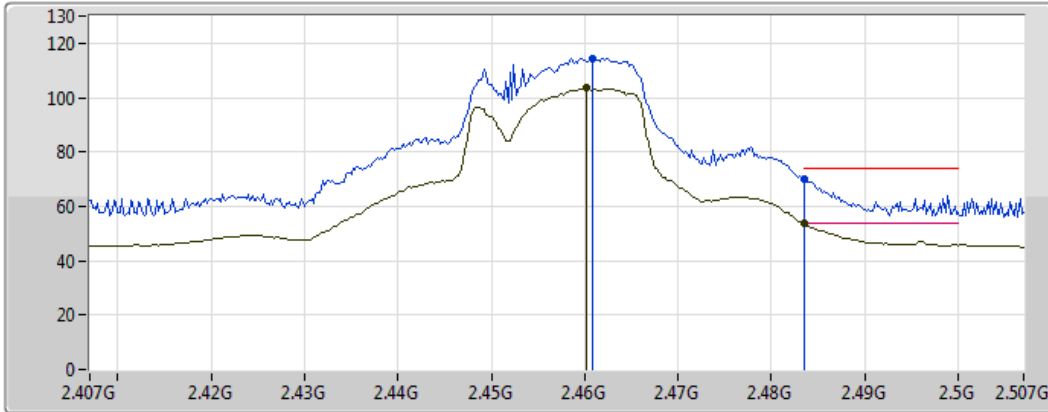
20180208
 EUT Z 2TX(Dipole)
 Setting 17
 01-J-6
 FSp
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.4466G | 104.68 | Inf | -Inf | 31.07 | 3 | Vertical | 314 | 1.30 | - |
| AV | 2.483502G | 52.77 | 54.00 | -1.23 | 31.17 | 3 | Vertical | 314 | 1.30 | - |
| PK | 2.4458G | 115.67 | Inf | -Inf | 31.06 | 3 | Vertical | 314 | 1.30 | - |
| PK | 2.4836G | 69.99 | 74.00 | -4.01 | 31.17 | 3 | Vertical | 314 | 1.30 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Pink line with a peak icon
- AV: Green line with a peak icon

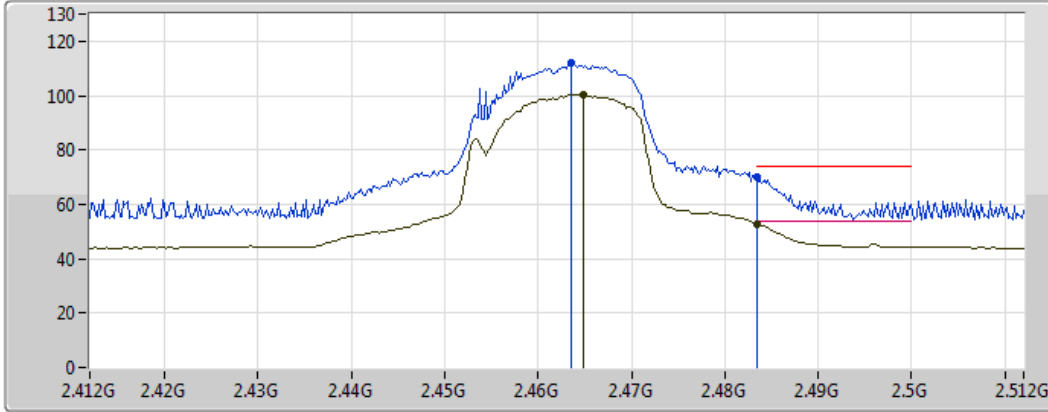
20180208
 EUT Z 2TX(Dipole)
 Setting 16
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.4602G | 103.42 | Inf | -Inf | 31.10 | 3 | Vertical | 315 | 1.24 | - |
| AV | 2.483502G | 53.53 | 54.00 | -0.47 | 31.17 | 3 | Vertical | 315 | 1.24 | - |
| PK | 2.4608G | 114.29 | Inf | -Inf | 31.11 | 3 | Vertical | 315 | 1.24 | - |
| PK | 2.483502G | 70.07 | 74.00 | -3.93 | 31.17 | 3 | Vertical | 315 | 1.24 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

09/02/2018



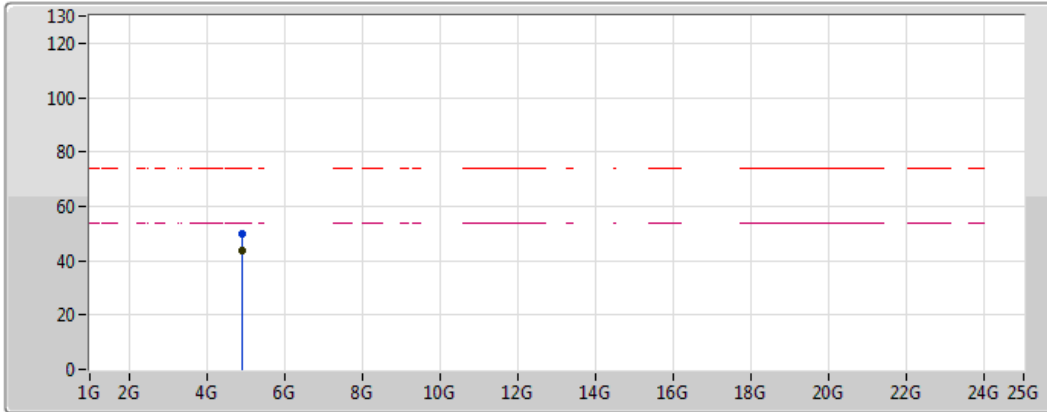
20180208
 EUT Z 2TX(Dipole)
 Setting 12.5
 01-J-6
 FSp
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.4648G | 100.57 | Inf | -Inf | 31.12 | 3 | Vertical | 312 | 1.12 | - |
| AV | 2.483502G | 52.86 | 54.00 | -1.14 | 31.17 | 3 | Vertical | 312 | 1.12 | - |
| PK | 2.4636G | 112.02 | Inf | -Inf | 31.11 | 3 | Vertical | 312 | 1.12 | - |
| PK | 2.483502G | 69.86 | 74.00 | -4.14 | 31.17 | 3 | Vertical | 312 | 1.12 | - |





802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

09/02/2018



Legend:

- Lim.PK 
- PK 
- Lim.AV 
- AV 

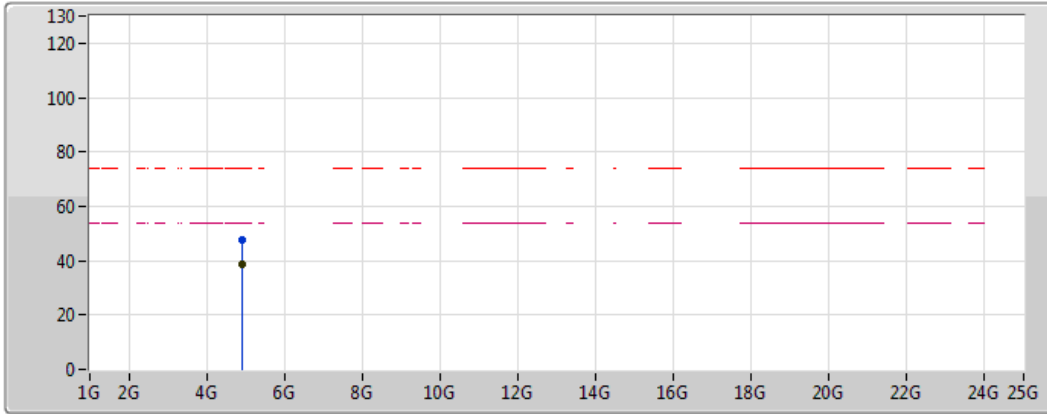
20180208
 EUT Z 2TX(Dipole)
 Setting 12.5
 01-J-6
 FSp
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.92396G | 43.72 | 54.00 | -10.28 | 4.40 | 3 | Vertical | 180 | 1.11 | - |
| PK | 4.92394G | 49.79 | 74.00 | -24.21 | 4.40 | 3 | Vertical | 180 | 1.11 | - |

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red dashed line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Magenta dashed line with a peak icon
- AV: Black line with a peak icon

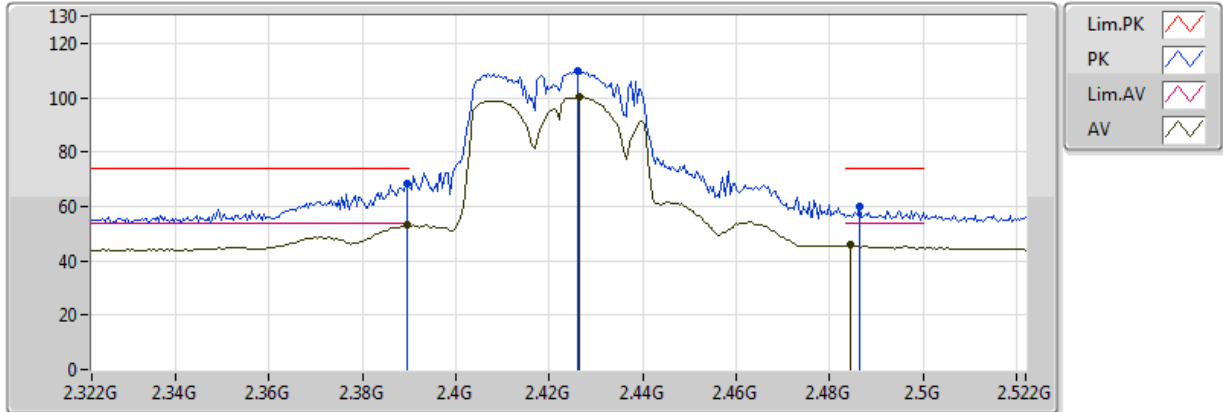
20180208
 EUT Z 2TX(Dipole)
 Setting 12.5
 01-J-6
 FSp
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.92394G | 38.79 | 54.00 | -15.21 | 4.34 | 3 | Horizontal | 123 | 1.00 | - |
| PK | 4.92392G | 47.59 | 74.00 | -26.41 | 4.34 | 3 | Horizontal | 123 | 1.00 | - |

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 13.5
 01-J-6
 FSp
 Sample Z

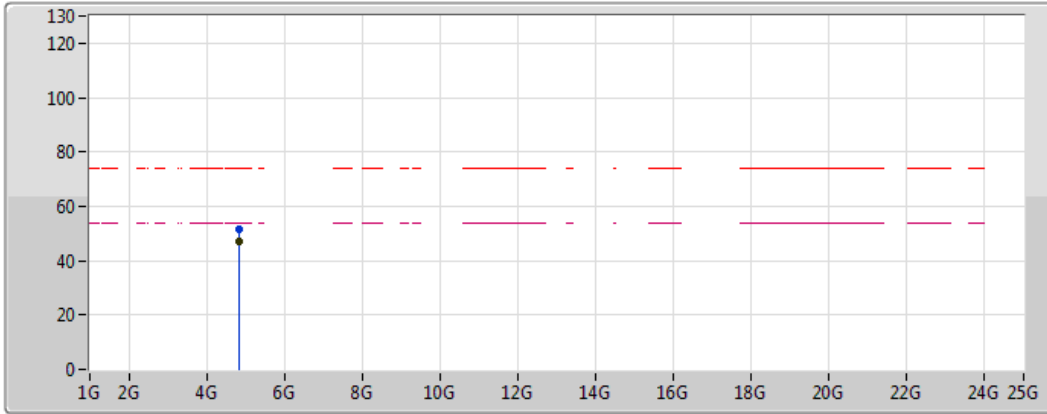
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3896G | 53.24 | 54.00 | -0.76 | 30.96 | 3 | Vertical | 314 | 1.44 | - |
| AV | 2.4264G | 100.38 | Inf | -Inf | 31.01 | 3 | Vertical | 314 | 1.44 | - |
| AV | 2.4844G | 45.71 | 54.00 | -8.29 | 31.17 | 3 | Vertical | 314 | 1.44 | - |
| PK | 2.3896G | 68.15 | 74.00 | -5.85 | 30.96 | 3 | Vertical | 314 | 1.44 | - |
| PK | 2.426G | 109.56 | Inf | -Inf | 31.01 | 3 | Vertical | 314 | 1.44 | - |
| PK | 2.4864G | 59.78 | 74.00 | -14.22 | 31.18 | 3 | Vertical | 314 | 1.44 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

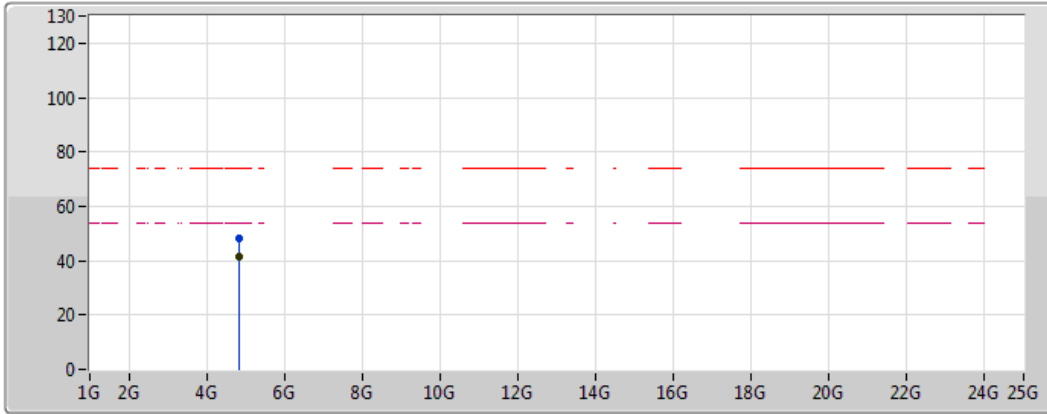
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.84394G | 46.87 | 54.00 | -7.13 | 4.08 | 3 | Vertical | 180 | 1.01 | - |
| PK | 4.84408G | 51.34 | 74.00 | -22.66 | 4.08 | 3 | Vertical | 180 | 1.01 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

09/02/2018



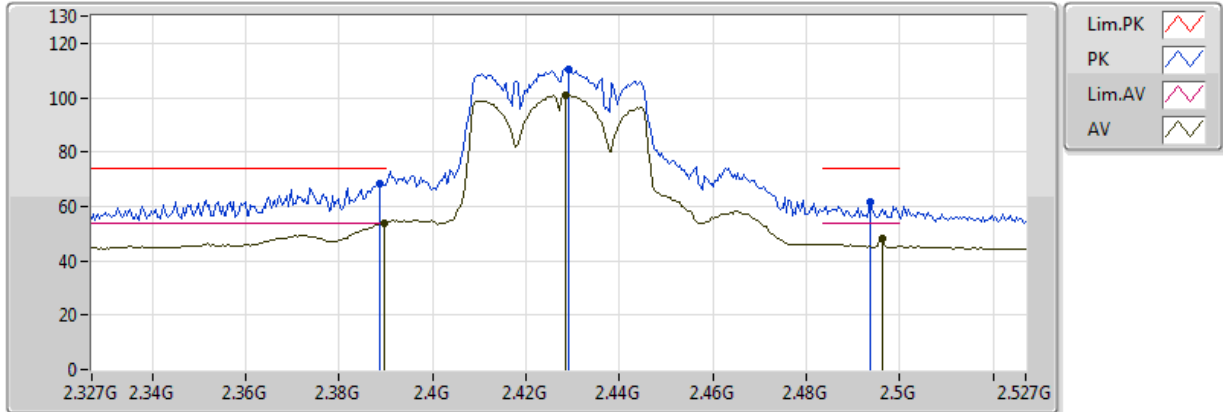
20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.84396G | 41.28 | 54.00 | -12.72 | 4.02 | 3 | Horizontal | 148 | 1.12 | - |
| PK | 4.84398G | 48.17 | 74.00 | -25.83 | 4.02 | 3 | Horizontal | 148 | 1.12 | - |

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

09/02/2018



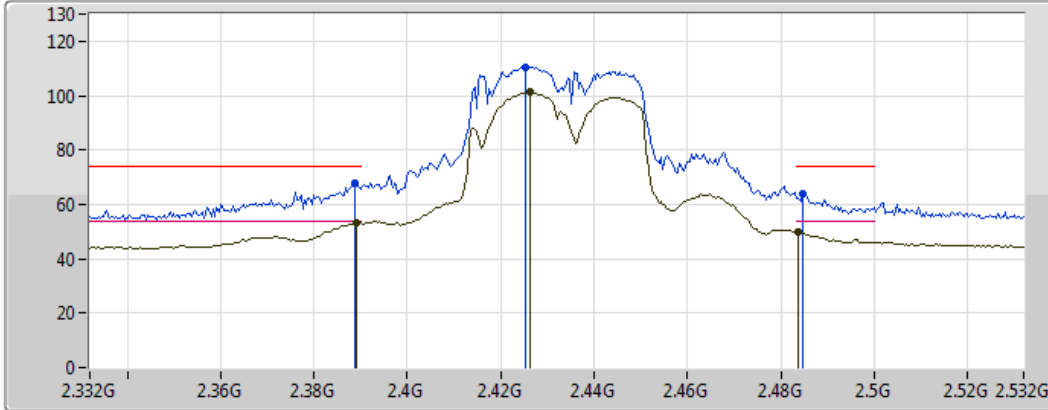
20180208
 EUT Z 2TX(Dipole)
 Setting 14
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3898G | 53.98 | 54.00 | -0.02 | 30.96 | 3 | Vertical | 339 | 1.26 | - |
| AV | 2.4286G | 101.12 | Inf | -Inf | 31.01 | 3 | Vertical | 339 | 1.26 | - |
| AV | 2.4962G | 48.22 | 54.00 | -5.78 | 31.21 | 3 | Vertical | 339 | 1.26 | - |
| PK | 2.3886G | 68.23 | 74.00 | -5.77 | 30.96 | 3 | Vertical | 339 | 1.26 | - |
| PK | 2.429G | 110.28 | Inf | -Inf | 31.01 | 3 | Vertical | 339 | 1.26 | - |
| PK | 2.4938G | 61.39 | 74.00 | -12.61 | 31.20 | 3 | Vertical | 339 | 1.26 | - |

802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Red line with a valley icon
- AV: Blue line with a valley icon

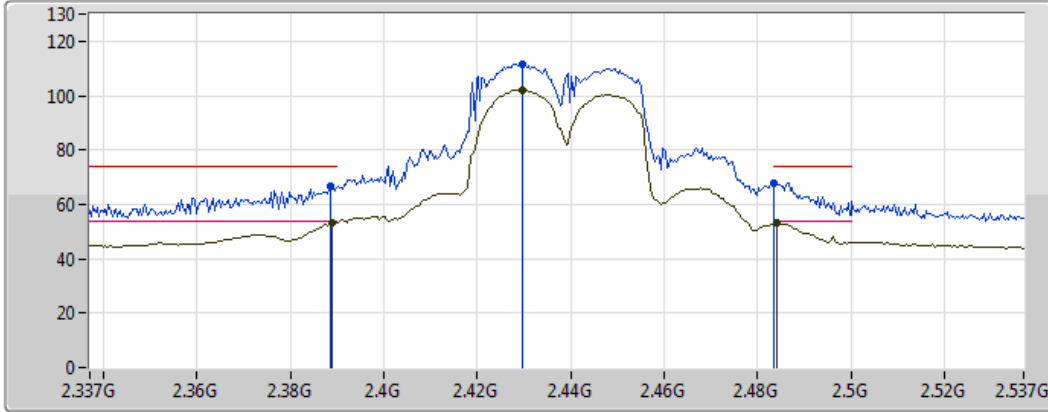
20180208
 EUT Z 2TX(Dipole)
 Setting 14.5
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3892G | 53.33 | 54.00 | -0.67 | 30.96 | 3 | Vertical | 313 | 1.39 | - |
| AV | 2.4264G | 101.19 | Inf | -Inf | 31.01 | 3 | Vertical | 313 | 1.39 | - |
| AV | 2.4836G | 49.75 | 54.00 | -4.25 | 31.17 | 3 | Vertical | 313 | 1.39 | - |
| PK | 2.3888G | 67.81 | 74.00 | -6.19 | 30.96 | 3 | Vertical | 313 | 1.39 | - |
| PK | 2.4252G | 110.39 | Inf | -Inf | 31.00 | 3 | Vertical | 313 | 1.39 | - |
| PK | 2.4848G | 63.77 | 74.00 | -10.23 | 31.18 | 3 | Vertical | 313 | 1.39 | - |

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Red line with a valley icon
- AV: Blue line with a valley icon

20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

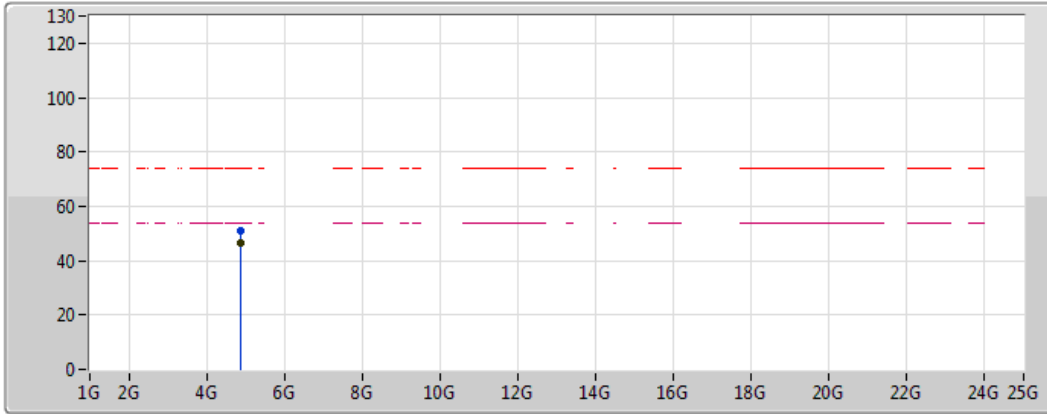
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389G | 53.42 | 54.00 | -0.58 | 30.96 | 3 | Vertical | 341 | 1.25 | - |
| AV | 2.4298G | 102.15 | Inf | -Inf | 31.02 | 3 | Vertical | 341 | 1.25 | - |
| AV | 2.4842G | 53.08 | 54.00 | -0.92 | 31.17 | 3 | Vertical | 341 | 1.25 | - |
| PK | 2.3886G | 66.89 | 74.00 | -7.11 | 30.96 | 3 | Vertical | 341 | 1.25 | - |
| PK | 2.4298G | 111.31 | Inf | -Inf | 31.02 | 3 | Vertical | 341 | 1.25 | - |
| PK | 2.483502G | 67.82 | 74.00 | -6.18 | 31.17 | 3 | Vertical | 341 | 1.25 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

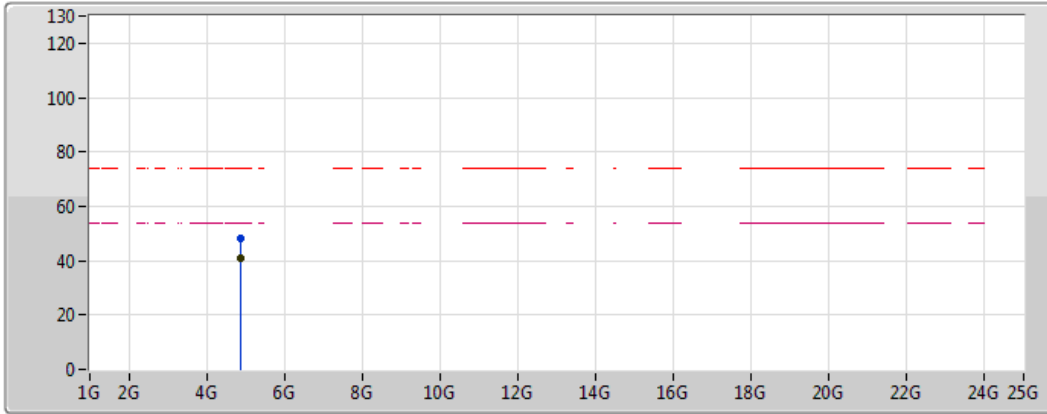
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.87394G | 46.52 | 54.00 | -7.48 | 4.20 | 3 | Vertical | 181 | 1.25 | - |
| PK | 4.87388G | 51.24 | 74.00 | -22.76 | 4.20 | 3 | Vertical | 181 | 1.25 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

09/02/2018



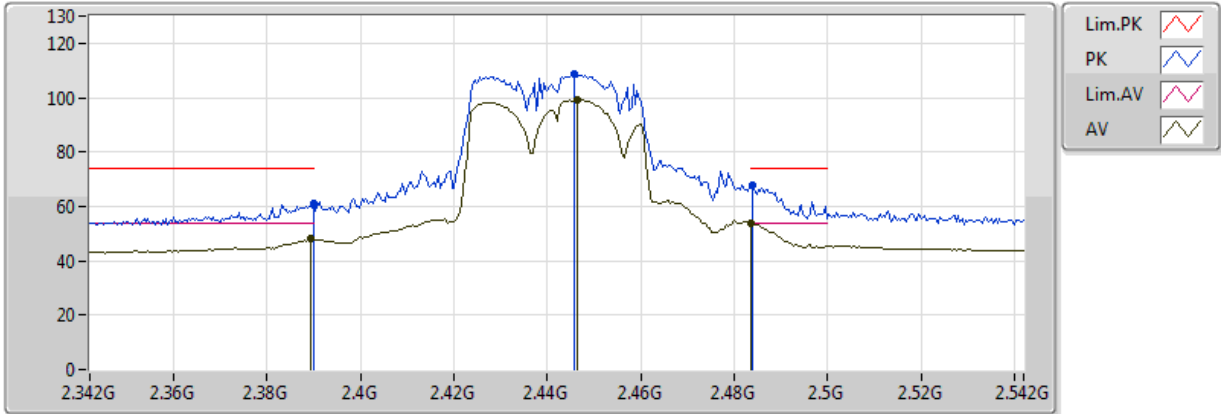
20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.87394G | 40.75 | 54.00 | -13.25 | 4.14 | 3 | Horizontal | 147 | 1.02 | - |
| PK | 4.87392G | 48.21 | 74.00 | -25.79 | 4.14 | 3 | Horizontal | 147 | 1.02 | - |

802.11n HT40_Nss1,(MCS0)_2TX

2442MHz_TX

09/02/2018



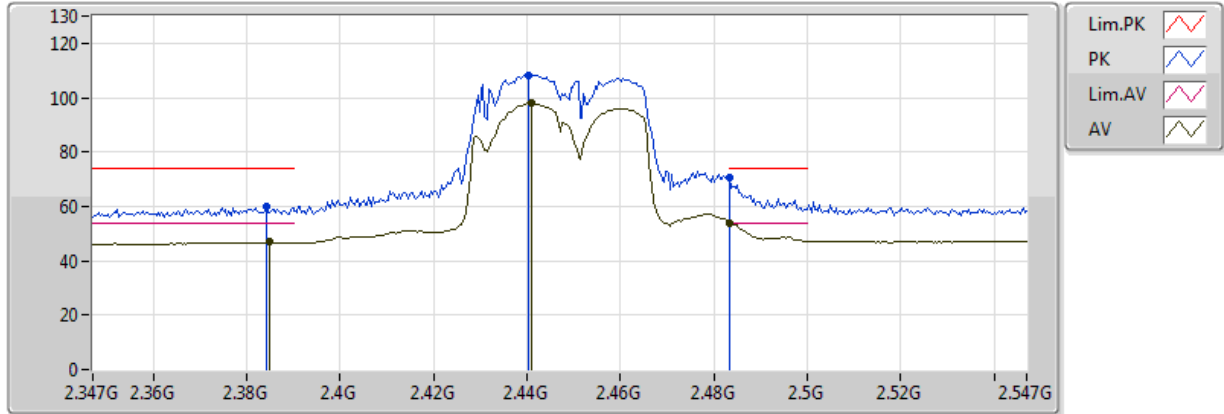
20180208
 EUT Z 2TX(Dipole)
 Setting 13
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3892G | 48.03 | 54.00 | -5.97 | 30.96 | 3 | Vertical | 314 | 1.30 | - |
| AV | 2.4464G | 99.18 | Inf | -Inf | 31.06 | 3 | Vertical | 314 | 1.30 | - |
| AV | 2.4836G | 53.84 | 54.00 | -0.16 | 31.17 | 3 | Vertical | 314 | 1.30 | - |
| PK | 2.389998G | 61.16 | 74.00 | -12.84 | 30.96 | 3 | Vertical | 314 | 1.30 | - |
| PK | 2.4456G | 108.46 | Inf | -Inf | 31.06 | 3 | Vertical | 314 | 1.30 | - |
| PK | 2.484G | 67.68 | 74.00 | -6.32 | 31.17 | 3 | Vertical | 314 | 1.30 | - |

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

09/02/2018



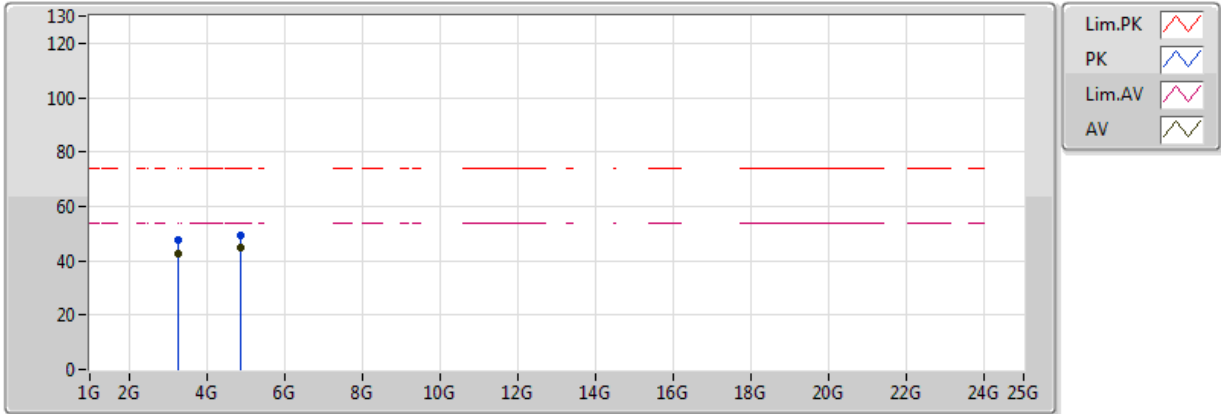
20180207
EUT Z 2TX(Dipole)
Setting 12
01-E-2
FSU
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.385G | 46.89 | 54.00 | -7.11 | 30.98 | 3 | Vertical | 313 | 1.37 | - |
| AV | 2.441G | 97.89 | Inf | -Inf | 31.05 | 3 | Vertical | 313 | 1.37 | - |
| AV | 2.483502G | 53.65 | 54.00 | -0.35 | 31.17 | 3 | Vertical | 313 | 1.37 | - |
| PK | 2.3842G | 59.82 | 74.00 | -14.18 | 30.98 | 3 | Vertical | 313 | 1.37 | - |
| PK | 2.4402G | 108.38 | Inf | -Inf | 31.05 | 3 | Vertical | 313 | 1.37 | - |
| PK | 2.483502G | 70.66 | 74.00 | -3.34 | 31.17 | 3 | Vertical | 313 | 1.37 | - |

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

09/02/2018



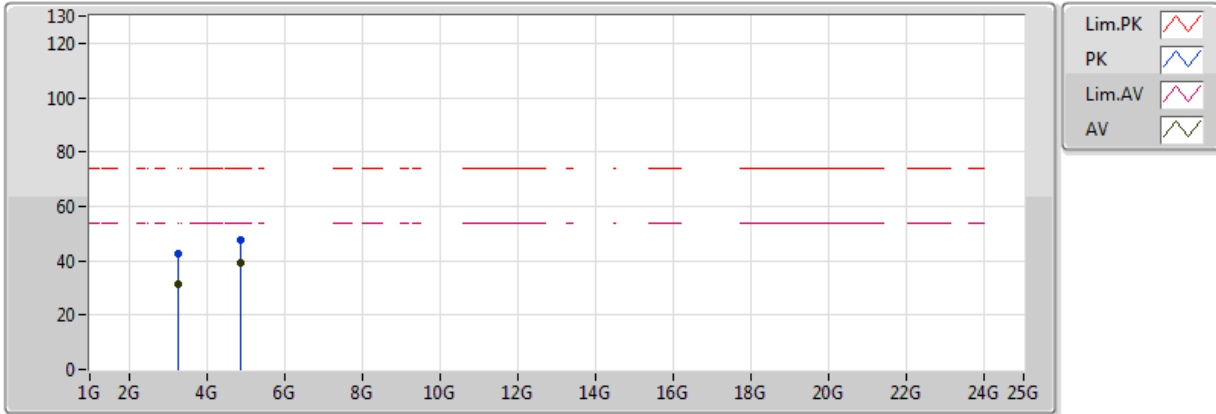
20180207
EUT Z 2TX(Dipole)
Setting 12
01-E-2
FSU
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| AV | 3.262667G | 42.35 | 54.00 | -11.65 | -0.02 | 3 | Vertical | 336 | 2.83 | - |
| AV | 4.894G | 44.66 | 54.00 | -9.34 | 4.29 | 3 | Vertical | 179 | 1.17 | - |
| PK | 3.262727G | 47.66 | 74.00 | -26.34 | -0.02 | 3 | Vertical | 336 | 2.83 | - |
| PK | 4.89388G | 49.49 | 74.00 | -24.51 | 4.28 | 3 | Vertical | 179 | 1.17 | - |

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

09/02/2018



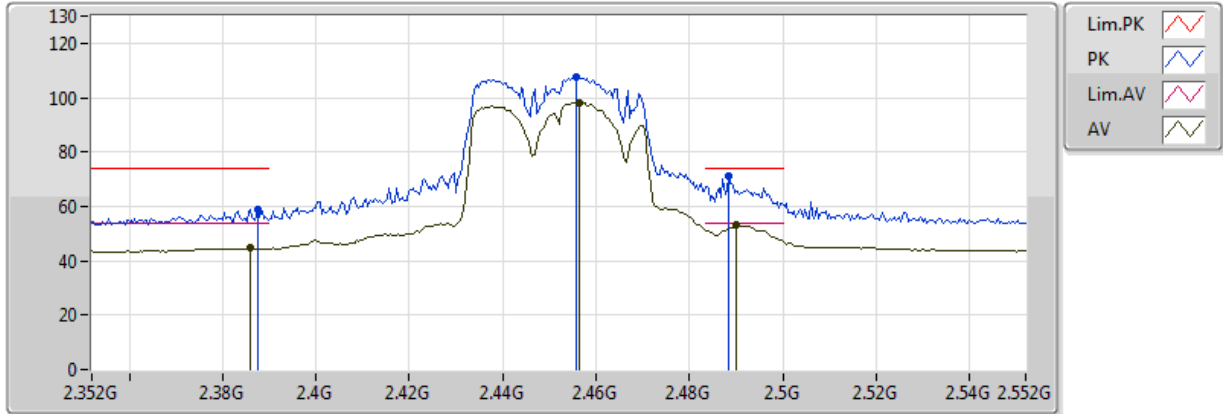
20180207
EUT Z 2TX(Dipole)
Setting 12
01-E-2
FSU
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 3.262727G | 31.38 | 54.00 | -22.62 | -0.07 | 3 | Horizontal | 154 | 1.44 | - |
| AV | 4.894G | 38.96 | 54.00 | -15.04 | 4.23 | 3 | Horizontal | 148 | 1.00 | - |
| PK | 3.262307G | 42.71 | 74.00 | -31.29 | -0.07 | 3 | Horizontal | 154 | 1.44 | - |
| PK | 4.894G | 47.36 | 74.00 | -26.64 | 4.23 | 3 | Horizontal | 148 | 1.00 | - |

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

09/02/2018



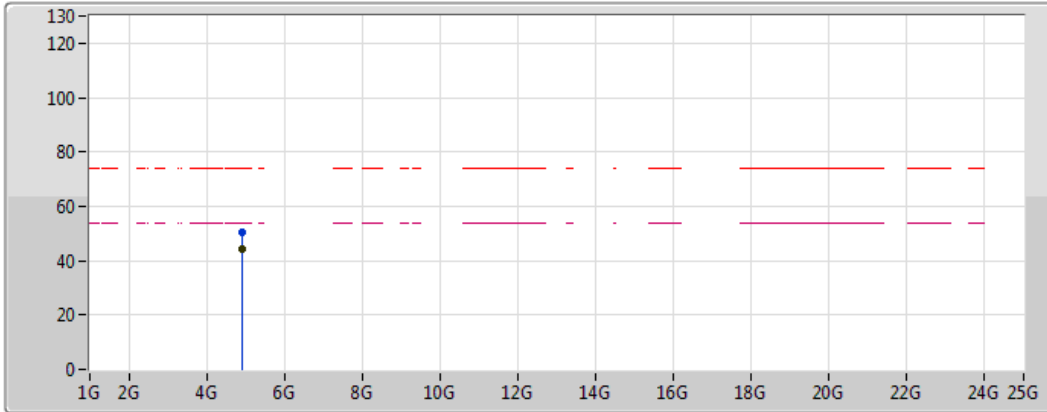
20180208
 EUT Z 2TX(Dipole)
 Setting 12
 01-J-6
 FSp
 Sample Z(±10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.386G | 44.59 | 54.00 | -9.41 | 30.97 | 3 | Vertical | 314 | 1.27 | - |
| AV | 2.4564G | 98.26 | Inf | -Inf | 31.09 | 3 | Vertical | 314 | 1.27 | - |
| AV | 2.49G | 53.01 | 54.00 | -0.99 | 31.19 | 3 | Vertical | 314 | 1.27 | - |
| PK | 2.3876G | 58.93 | 74.00 | -15.07 | 30.97 | 3 | Vertical | 314 | 1.27 | - |
| PK | 2.4556G | 107.75 | Inf | -Inf | 31.09 | 3 | Vertical | 314 | 1.27 | - |
| PK | 2.4884G | 71.14 | 74.00 | -2.86 | 31.19 | 3 | Vertical | 314 | 1.27 | - |

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

09/02/2018



20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

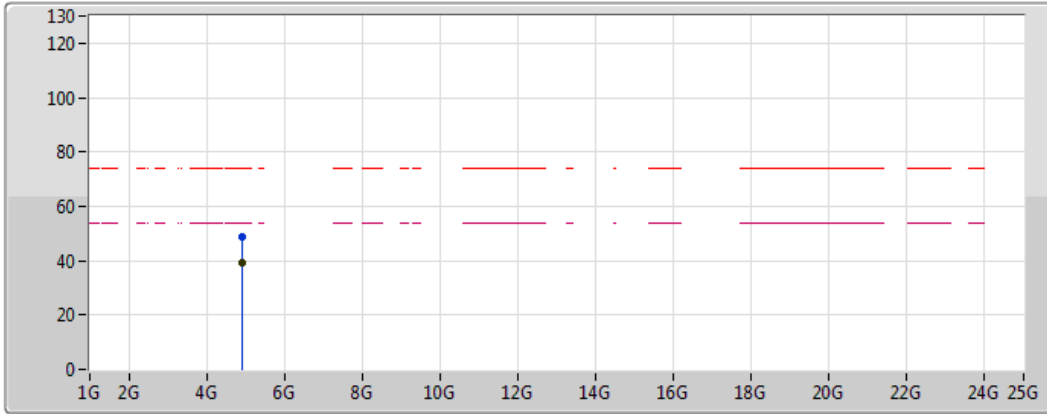
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.904G | 44.40 | 54.00 | -9.60 | 4.33 | 3 | Vertical | 181 | 1.24 | - |
| PK | 4.90396G | 50.23 | 74.00 | -23.77 | 4.33 | 3 | Vertical | 181 | 1.24 | - |



802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

09/02/2018



Legend:

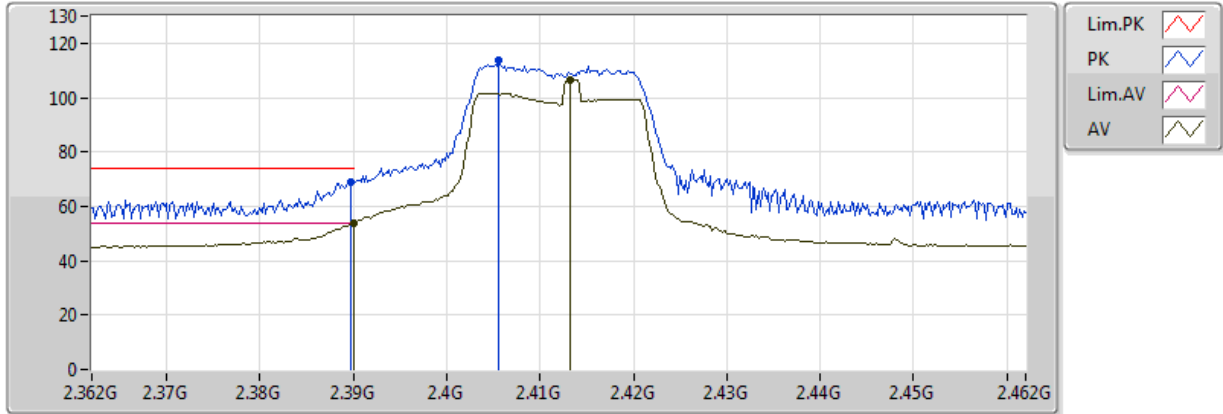
- Lim.PK (Red dashed line)
- PK (Blue solid line)
- Lim.AV (Magenta dashed line)
- AV (Black solid line)

20180208
 EUT Z 2TX(Dipole)
 Setting 15
 01-J-6
 FSp
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.90398G | 39.43 | 54.00 | -14.57 | 4.27 | 3 | Horizontal | 148 | 1.02 | - |
| PK | 4.90392G | 48.70 | 74.00 | -25.30 | 4.27 | 3 | Horizontal | 148 | 1.02 | - |

**802.11n HT20-BF_Nss1,(MCS0)_2TX
2412MHz_TX**

09/02/2018



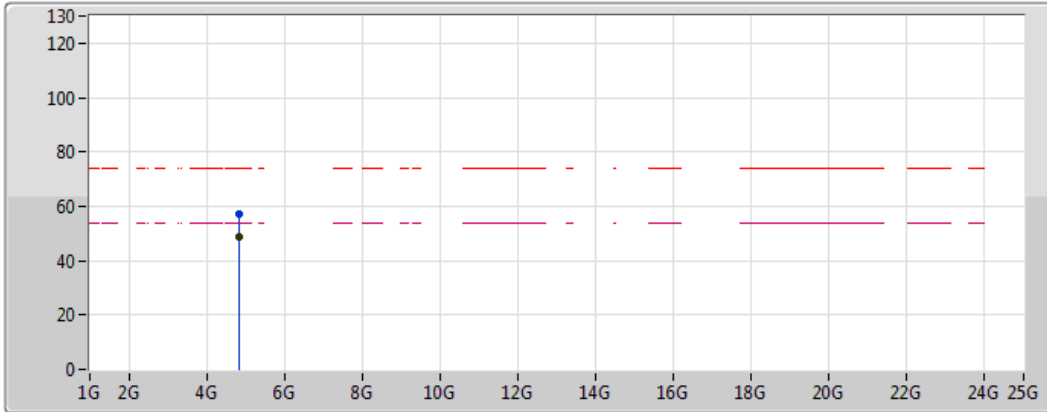
20180207
EUT Z 2TX(Dipole)
Setting 16
06-J-6
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.39G | 53.69 | 54.00 | -0.31 | 32.12 | 3 | Vertical | 11 | 1.11 | - |
| AV | 2.4132G | 106.58 | Inf | -Inf | 32.19 | 3 | Vertical | 11 | 1.11 | - |
| PK | 2.3898G | 69.02 | 74.00 | -4.98 | 32.12 | 3 | Vertical | 11 | 1.11 | - |
| PK | 2.4056G | 113.95 | Inf | -Inf | 32.17 | 3 | Vertical | 11 | 1.11 | - |

802.11n HT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red dashed line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Magenta dashed line with a peak icon
- AV: Black line with a peak icon

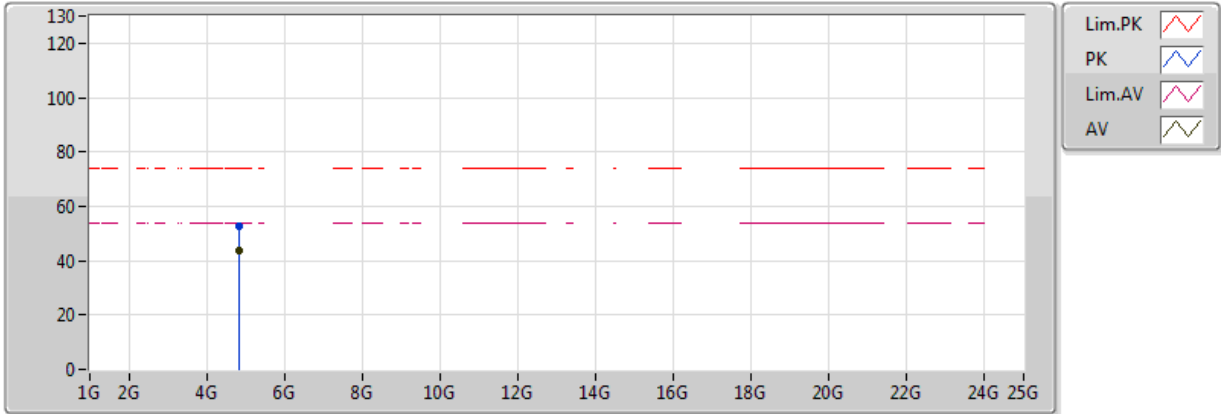
20180207
 EUT Z 2TX(Dipole)
 Setting 16
 06-J-6
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.824G | 48.63 | 54.00 | -5.37 | 6.70 | 3 | Vertical | 6 | 2.98 | - |
| PK | 4.8242G | 56.95 | 74.00 | -17.05 | 6.70 | 3 | Vertical | 6 | 2.98 | - |

802.11n HT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

09/02/2018

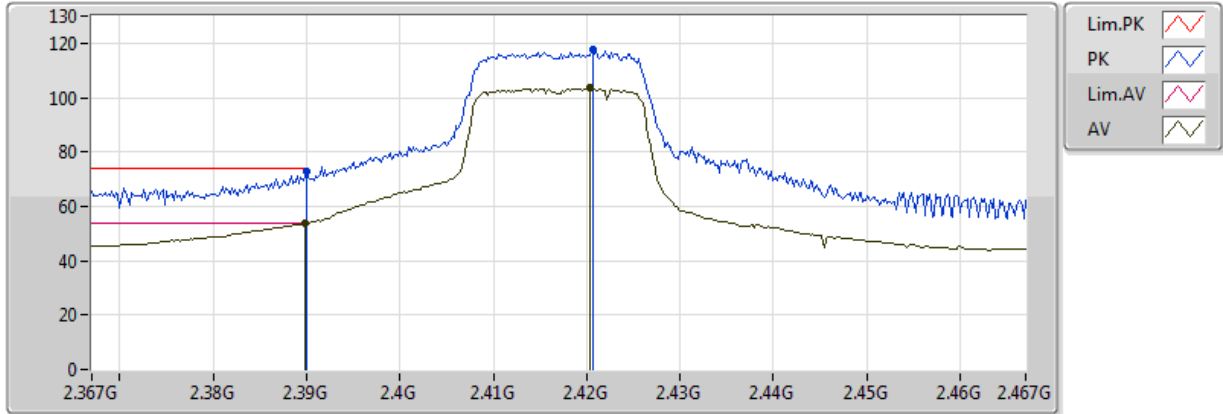


20180207
 EUT Z 2TX(Dipole)
 Setting 16
 06-J-6
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.82098G | 43.61 | 54.00 | -10.39 | 6.69 | 3 | Horizontal | 3 | 1.29 | - |
| PK | 4.8207G | 52.65 | 74.00 | -21.35 | 6.69 | 3 | Horizontal | 3 | 1.29 | - |

**802.11n HT20-BF_Nss1,(MCS0)_2TX
2417MHz_TX**

09/02/2018

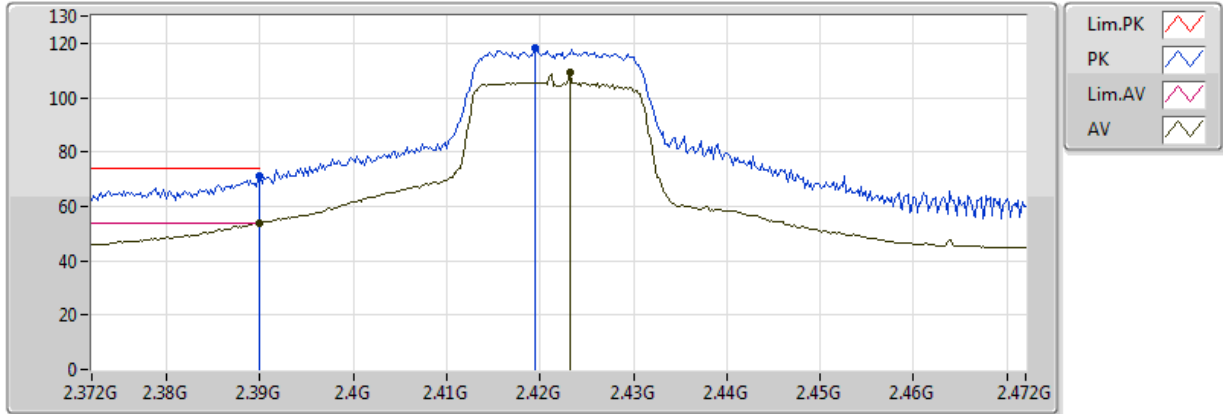


20180208H
EUT Z 2TX(Dipole)
Setting 19
01-E-2
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3898G | 53.80 | 54.00 | -0.20 | 30.96 | 3 | Vertical | 3 | 1.15 | - |
| AV | 2.4204G | 103.41 | Inf | -Inf | 30.99 | 3 | Vertical | 3 | 1.15 | - |
| PK | 2.389998G | 72.74 | 74.00 | -1.26 | 30.96 | 3 | Vertical | 3 | 1.15 | - |
| PK | 2.4206G | 117.48 | Inf | -Inf | 30.99 | 3 | Vertical | 3 | 1.15 | - |

**802.11n HT20-BF_Nss1,(MCS0)_2TX
2422MHz_TX**

09/02/2018



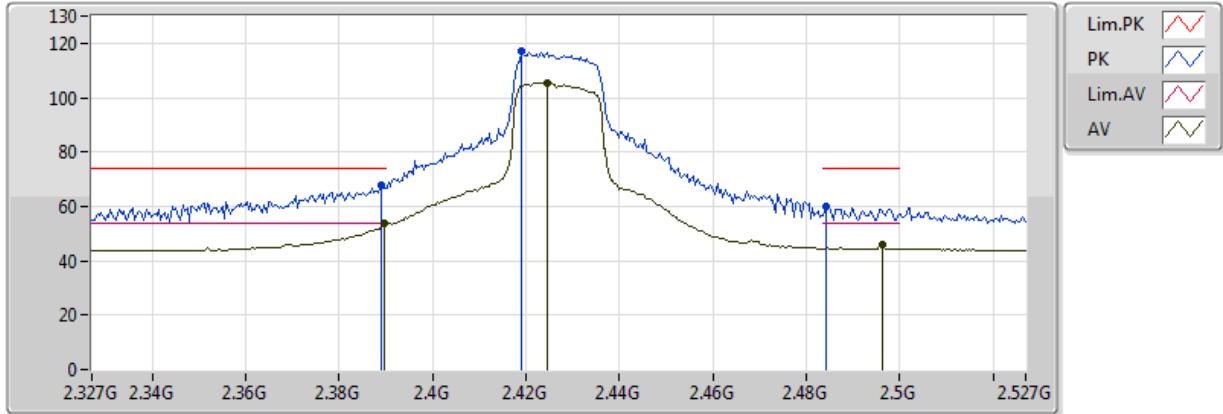
20180208H
EUT Z 2TX(Dipole)
Setting 19
01-E-2
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 53.92 | 54.00 | -0.08 | 30.96 | 3 | Vertical | 8 | 1.16 | - |
| AV | 2.4232G | 109.23 | Inf | -Inf | 31.00 | 3 | Vertical | 8 | 1.16 | - |
| PK | 2.389998G | 71.39 | 74.00 | -2.61 | 30.96 | 3 | Vertical | 8 | 1.16 | - |
| PK | 2.4194G | 118.25 | Inf | -Inf | 30.99 | 3 | Vertical | 8 | 1.16 | - |

802.11n HT20-BF_Nss1,(MCS0)_2TX

2427MHz_TX

09/02/2018

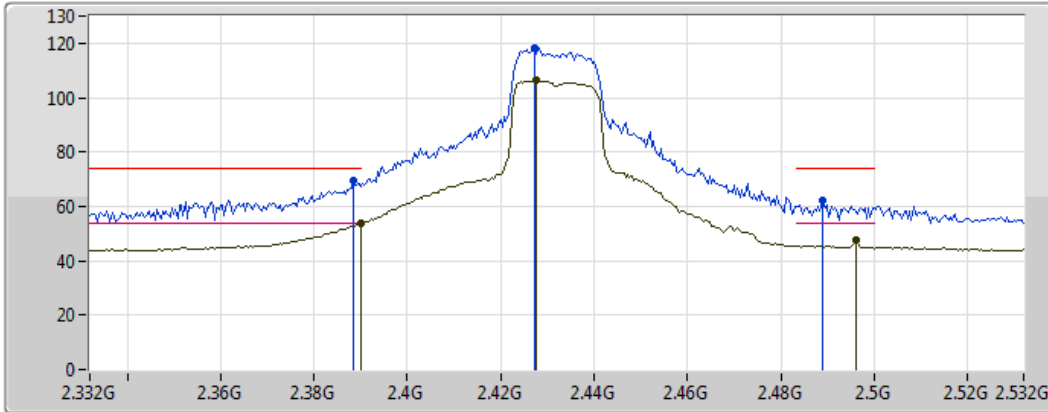


20180208H
EUT Z 2TX(Dipole)
Setting 21
01-E-2
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3898G | 53.54 | 54.00 | -0.46 | 30.96 | 3 | Vertical | 33 | 1.23 | - |
| AV | 2.4246G | 105.27 | Inf | -Inf | 31.00 | 3 | Vertical | 33 | 1.23 | - |
| AV | 2.4962G | 46.10 | 54.00 | -7.90 | 31.21 | 3 | Vertical | 33 | 1.23 | - |
| PK | 2.389G | 67.70 | 74.00 | -6.30 | 30.96 | 3 | Vertical | 33 | 1.23 | - |
| PK | 2.419G | 117.05 | Inf | -Inf | 30.99 | 3 | Vertical | 33 | 1.23 | - |
| PK | 2.4842G | 59.96 | 74.00 | -14.04 | 31.17 | 3 | Vertical | 33 | 1.23 | - |

**802.11n HT20-BF_Nss1,(MCS0)_2TX
2432MHz_TX**

09/02/2018



Legend for the spectrum plot:

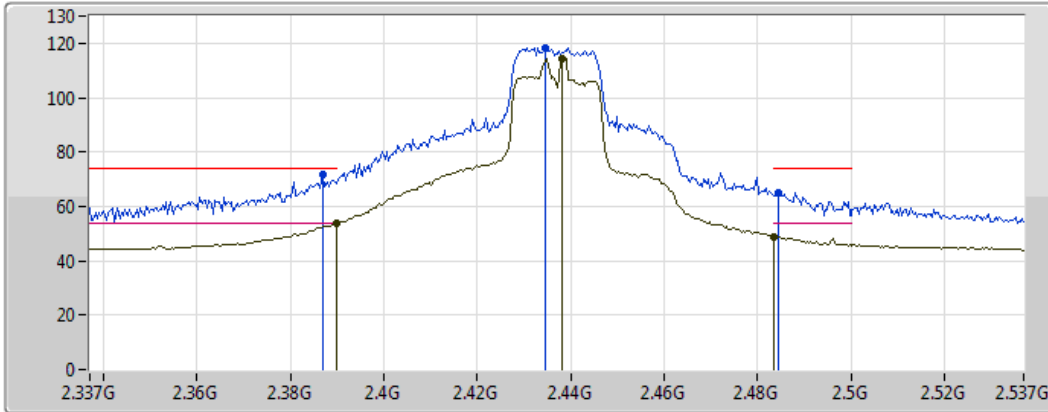
- Lim.PK: Red line with a blue peak icon
- PK: Blue line with a blue peak icon
- Lim.AV: Red line with a green peak icon
- AV: Green line with a green peak icon

20180208H
EUT Z 2TX(Dipole)
Setting 22.5
01-E-2
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 53.82 | 54.00 | -0.18 | 30.96 | 3 | Vertical | 33 | 1.50 | - |
| AV | 2.4276G | 106.44 | Inf | -Inf | 31.01 | 3 | Vertical | 33 | 1.50 | - |
| AV | 2.496G | 47.37 | 54.00 | -6.63 | 31.21 | 3 | Vertical | 33 | 1.50 | - |
| PK | 2.3884G | 69.46 | 74.00 | -4.54 | 30.96 | 3 | Vertical | 33 | 1.50 | - |
| PK | 2.4272G | 118.13 | Inf | -Inf | 31.01 | 3 | Vertical | 33 | 1.50 | - |
| PK | 2.4888G | 62.16 | 74.00 | -11.84 | 31.19 | 3 | Vertical | 33 | 1.50 | - |

**802.11n HT20-BF_Nss1,(MCS0)_2TX
2437MHz_TX**

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Red line with a valley icon
- AV: Blue line with a valley icon

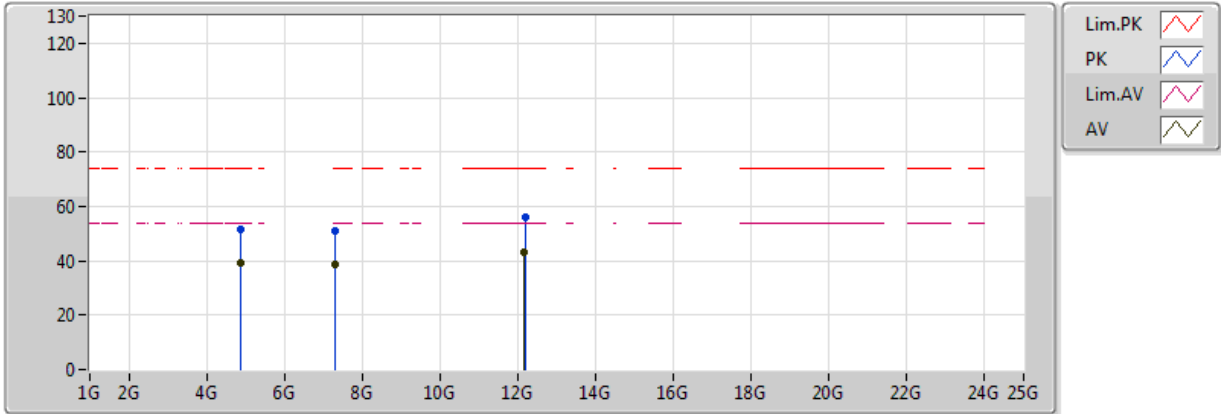
20180206
EUT Z 2TX(Dipole)
Setting 22.5
01-E-2
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3898G | 53.78 | 54.00 | -0.22 | 30.96 | 3 | Vertical | 218 | 1.36 | - |
| AV | 2.4382G | 114.22 | Inf | -Inf | 31.04 | 3 | Vertical | 218 | 1.36 | - |
| AV | 2.483502G | 48.93 | 54.00 | -5.07 | 31.17 | 3 | Vertical | 218 | 1.36 | - |
| PK | 2.387G | 71.79 | 74.00 | -2.21 | 30.97 | 3 | Vertical | 218 | 1.36 | - |
| PK | 2.4346G | 118.27 | Inf | -Inf | 31.03 | 3 | Vertical | 218 | 1.36 | - |
| PK | 2.4846G | 65.12 | 74.00 | -8.88 | 31.18 | 3 | Vertical | 218 | 1.36 | - |

802.11n HT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

09/02/2018

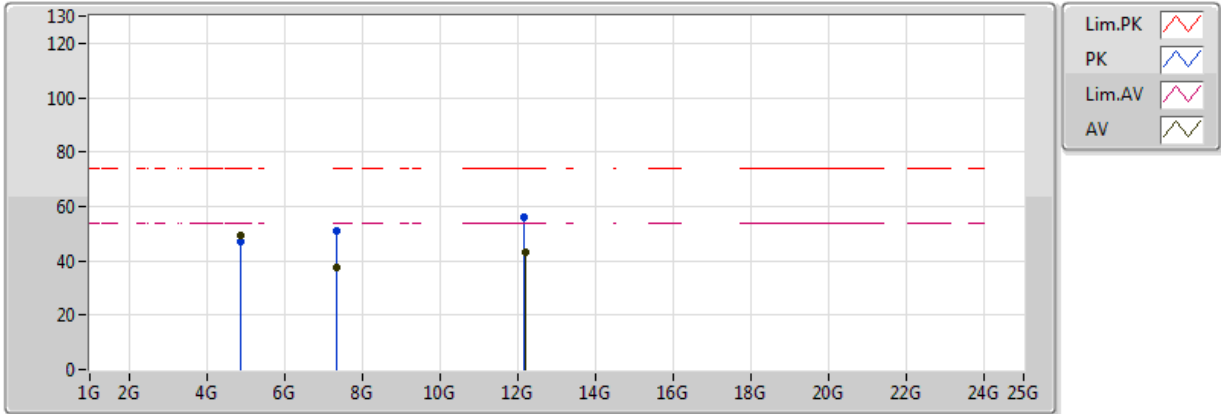


20180206
EUT Z 2TX(Dipole)
Setting 22.5
01-E-2
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.8773G | 39.08 | 54.00 | -14.92 | 4.22 | 3 | Vertical | 87 | 2.62 | - |
| AV | 7.31184G | 38.75 | 54.00 | -15.25 | 9.75 | 3 | Vertical | 0 | 2.77 | - |
| AV | 12.17546G | 43.06 | 54.00 | -10.94 | 13.93 | 3 | Vertical | 42 | 2.76 | - |
| PK | 4.87352G | 51.43 | 74.00 | -22.57 | 4.20 | 3 | Vertical | 87 | 2.62 | - |
| PK | 7.31388G | 51.07 | 74.00 | -22.93 | 9.75 | 3 | Vertical | 0 | 2.77 | - |
| PK | 12.1961G | 55.91 | 74.00 | -18.09 | 13.99 | 3 | Vertical | 42 | 2.76 | - |

802.11n HT20-BF_Nss1,(MCS0)_2TX 2437MHz_TX

09/02/2018



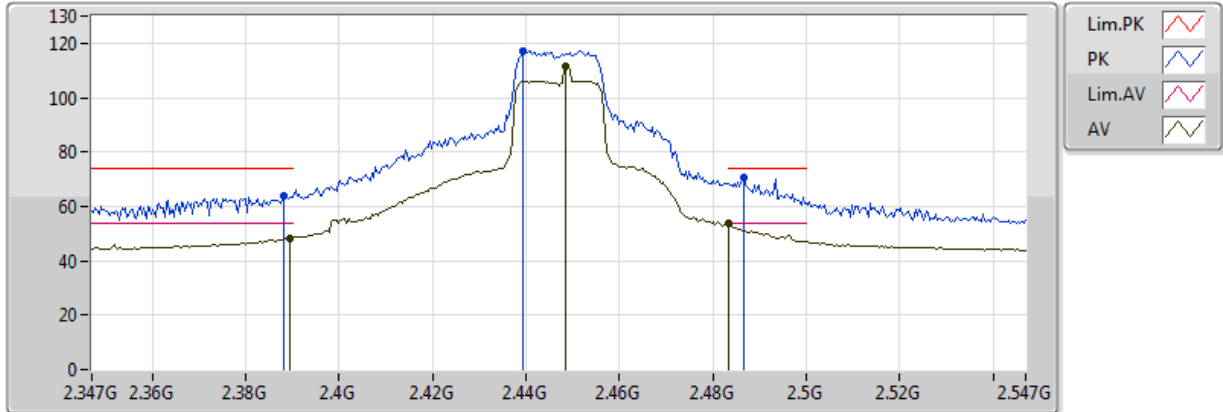
20180206
EUT Z 2TX(Dipole)
Setting 22.5
01-E-2
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.87376G | 49.14 | 54.00 | -4.86 | 4.14 | 3 | Horizontal | 178 | 1.82 | - |
| AV | 7.32312G | 37.80 | 54.00 | -16.20 | 9.66 | 3 | Horizontal | 148 | 1.50 | - |
| AV | 12.17834G | 43.00 | 54.00 | -11.00 | 13.78 | 3 | Horizontal | 290 | 1.50 | - |
| PK | 4.8632G | 46.90 | 74.00 | -27.10 | 4.10 | 3 | Horizontal | 178 | 1.82 | - |
| PK | 7.32378G | 51.16 | 74.00 | -22.84 | 9.66 | 3 | Horizontal | 148 | 1.50 | - |
| PK | 12.1769G | 56.15 | 74.00 | -17.85 | 13.77 | 3 | Horizontal | 290 | 1.50 | - |

802.11n HT20-BF_Nss1,(MCS0)_2TX

2447MHz_TX

09/02/2018



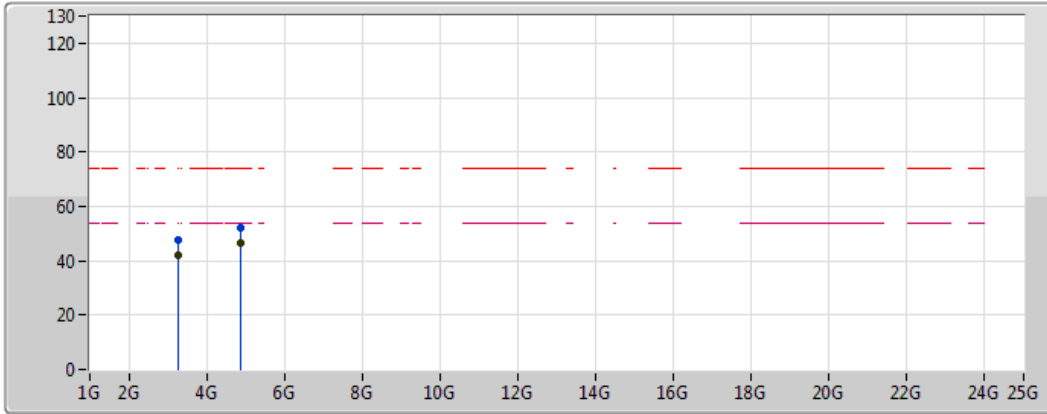
20180206
 EUT Z 2TX(Dipole)
 Setting 22.5
 01-E-2
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3894G | 48.45 | 54.00 | -5.55 | 30.96 | 3 | Vertical | 162 | 1.18 | - |
| AV | 2.4486G | 111.58 | Inf | -Inf | 31.07 | 3 | Vertical | 162 | 1.18 | - |
| AV | 2.483502G | 53.65 | 54.00 | -0.35 | 31.17 | 3 | Vertical | 162 | 1.18 | - |
| PK | 2.3882G | 63.95 | 74.00 | -10.05 | 30.97 | 3 | Vertical | 162 | 1.18 | - |
| PK | 2.4394G | 117.33 | Inf | -Inf | 31.04 | 3 | Vertical | 162 | 1.18 | - |
| PK | 2.4866G | 70.86 | 74.00 | -3.14 | 31.18 | 3 | Vertical | 162 | 1.18 | - |



**802.11n HT20-BF_Nss1,(MCS0)_2TX
2447MHz_TX**

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red dashed line
- PK: Blue line with peak marker
- Lim.AV: Magenta dashed line
- AV: Black line with average marker

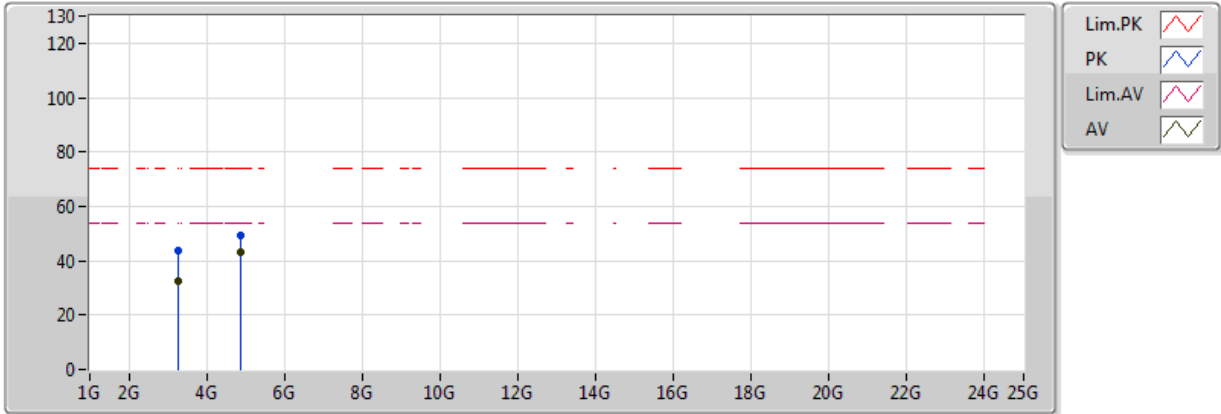
20180206
EUT Z 2TX(Dipole)
Setting 22.5
01-E-2
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 3.262599G | 41.84 | 54.00 | -12.16 | -0.02 | 3 | Vertical | 158 | 2.99 | - |
| AV | 4.89394G | 46.59 | 54.00 | -7.41 | 4.29 | 3 | Vertical | 179 | 1.12 | - |
| PK | 3.262555G | 47.81 | 74.00 | -26.19 | -0.02 | 3 | Vertical | 158 | 2.99 | - |
| PK | 4.89412G | 52.14 | 74.00 | -21.86 | 4.29 | 3 | Vertical | 179 | 1.12 | - |

802.11n HT20-BF_Nss1,(MCS0)_2TX

2447MHz_TX

09/02/2018



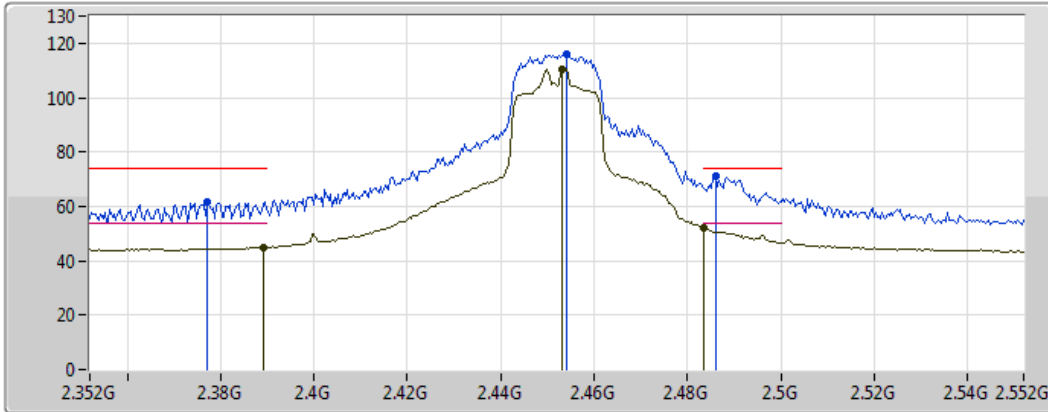
20180206
 EUT Z 2TX(Dipole)
 Setting 22.5
 01-E-2
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV | 3.262637G | 32.32 | 54.00 | -21.68 | -0.07 | 3 | Horizontal | 326 | 1.04 | - |
| AV | 4.89394G | 43.31 | 54.00 | -10.69 | 4.23 | 3 | Horizontal | 169 | 1.01 | - |
| PK | 3.262727G | 43.89 | 74.00 | -30.11 | -0.07 | 3 | Horizontal | 326 | 1.04 | - |
| PK | 4.88272G | 49.36 | 74.00 | -24.64 | 4.18 | 3 | Horizontal | 169 | 1.01 | - |

802.11n HT20-BF_Nss1,(MCS0)_2TX

2452MHz_TX

09/02/2018

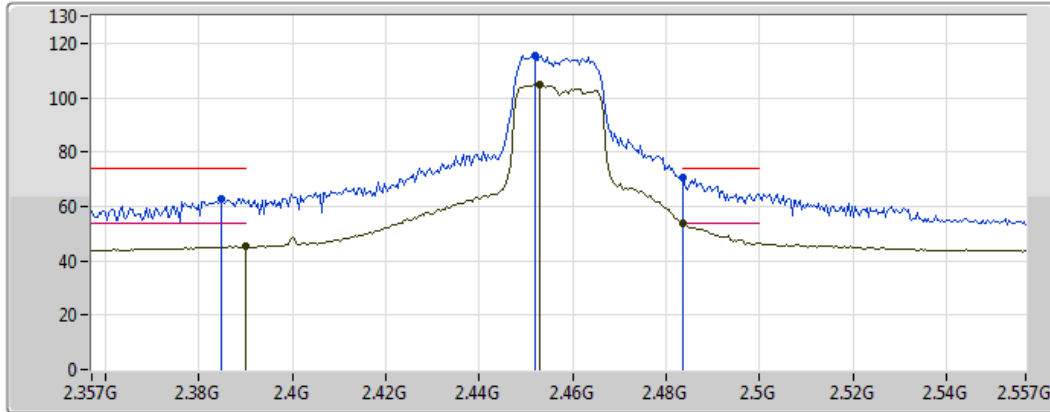


20180208H
 EUT Z 2TX(Dipole)
 Setting 22.5
 01-E-2
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3892G | 45.09 | 54.00 | -8.91 | 30.96 | 3 | Vertical | 32 | 1.50 | - |
| AV | 2.4532G | 110.55 | Inf | -Inf | 31.08 | 3 | Vertical | 32 | 1.50 | - |
| AV | 2.4836G | 52.05 | 54.00 | -1.95 | 31.17 | 3 | Vertical | 32 | 1.50 | - |
| PK | 2.3772G | 61.81 | 74.00 | -12.19 | 31.00 | 3 | Vertical | 32 | 1.50 | - |
| PK | 2.454G | 116.04 | Inf | -Inf | 31.09 | 3 | Vertical | 32 | 1.50 | - |
| PK | 2.486G | 71.38 | 74.00 | -2.62 | 31.18 | 3 | Vertical | 32 | 1.50 | - |

**802.11n HT20-BF_Nss1,(MCS0)_2TX
2457MHz_TX**

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Red line with a valley icon
- AV: Blue line with a valley icon

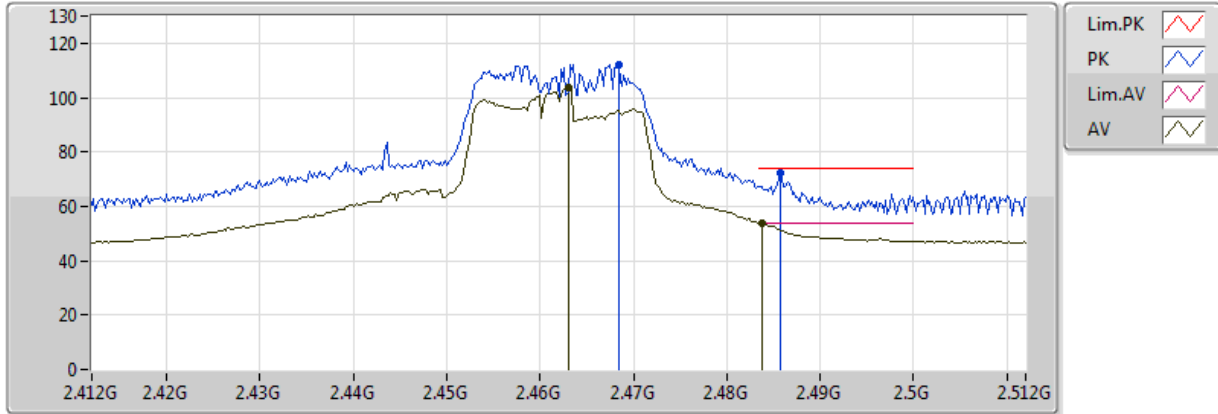
20180208H
EUT Z 2TX(Dipole)
Setting 20
01-E-2
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3898G | 45.20 | 54.00 | -8.80 | 30.96 | 3 | Vertical | 37 | 1.17 | - |
| AV | 2.453G | 104.77 | Inf | -Inf | 31.08 | 3 | Vertical | 37 | 1.17 | - |
| AV | 2.483502G | 53.58 | 54.00 | -0.42 | 31.17 | 3 | Vertical | 37 | 1.17 | - |
| PK | 2.3846G | 63.00 | 74.00 | -11.00 | 30.98 | 3 | Vertical | 37 | 1.17 | - |
| PK | 2.4518G | 115.25 | Inf | -Inf | 31.08 | 3 | Vertical | 37 | 1.17 | - |
| PK | 2.483502G | 70.57 | 74.00 | -3.43 | 31.17 | 3 | Vertical | 37 | 1.17 | - |

802.11n HT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

09/02/2018



20180207
 EUT Z 2TX(Dipole)
 Setting 19
 06-J-6
 FSP
 Sample Z

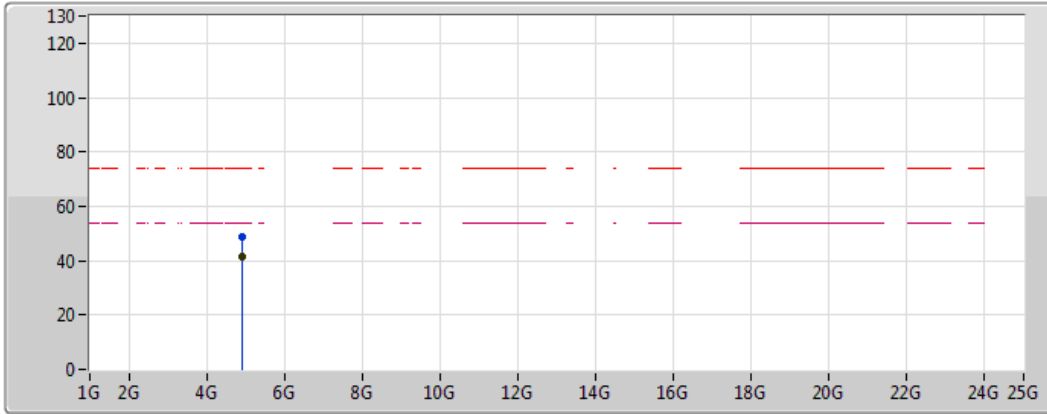
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.463G | 103.56 | Inf | -Inf | 32.35 | 3 | Vertical | 320 | 1.44 | - |
| AV | 2.4838G | 53.56 | 54.00 | -0.44 | 32.42 | 3 | Vertical | 320 | 1.44 | - |
| PK | 2.4684G | 112.27 | Inf | -Inf | 32.37 | 3 | Vertical | 320 | 1.44 | - |
| PK | 2.4858G | 72.34 | 74.00 | -1.66 | 32.43 | 3 | Vertical | 320 | 1.44 | - |



802.11n HT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

20180207
 EUT Z 2TX(Dipole)
 Setting 19
 06-J-6
 FSP
 Sample Z

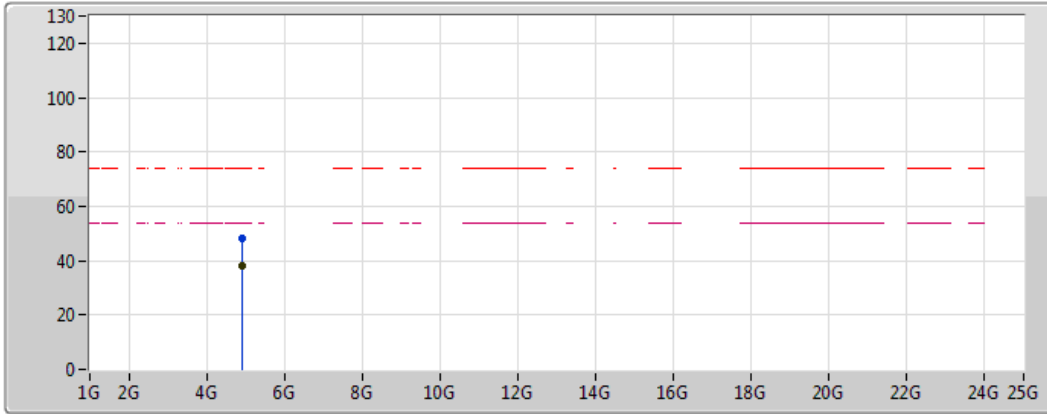
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.92392G | 41.32 | 54.00 | -12.68 | 6.98 | 3 | Vertical | 186 | 1.01 | - |
| PK | 4.92392G | 48.90 | 74.00 | -25.10 | 6.98 | 3 | Vertical | 186 | 1.01 | - |



802.11n HT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red dashed line with a peak icon
- PK: Blue solid line with a peak icon
- Lim.AV: Magenta dashed line with a peak icon
- AV: Black solid line with a peak icon

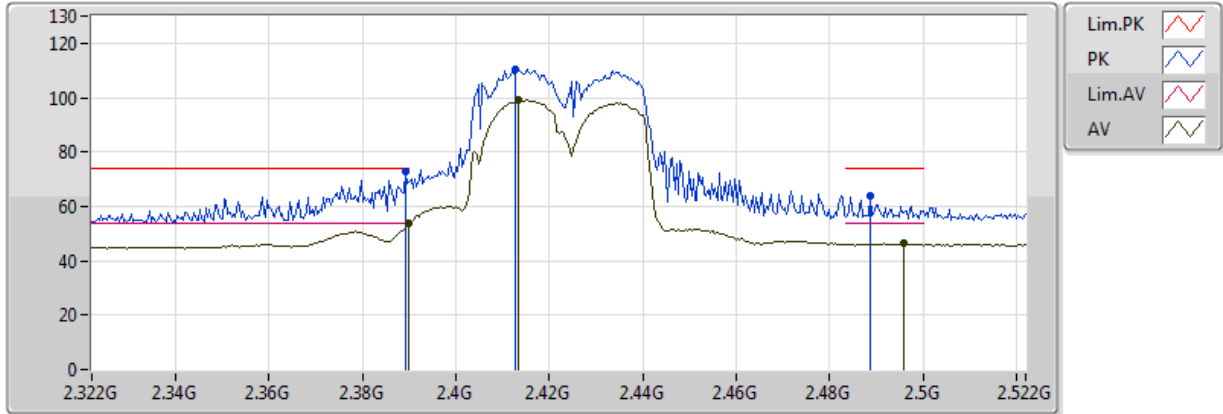
20180207
 EUT Z 2TX(Dipole)
 Setting 19
 06-J-6
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.92392G | 38.19 | 54.00 | -15.81 | 6.98 | 3 | Horizontal | 147 | 1.03 | - |
| PK | 4.92416G | 47.99 | 74.00 | -26.01 | 6.98 | 3 | Horizontal | 147 | 1.03 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

09/02/2018



20180207
 EUT Z 2TX(Dipole)
 Setting 16
 06-J-6
 FSP
 Sample Z

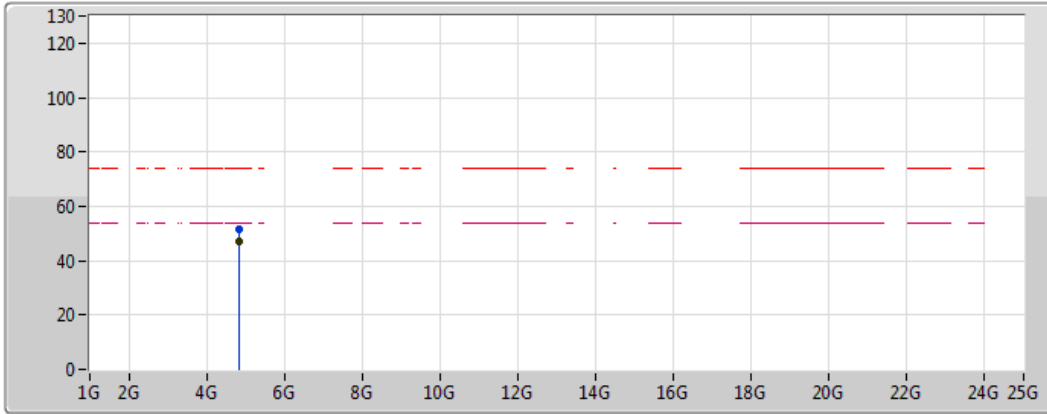
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.39G | 53.52 | 54.00 | -0.48 | 32.12 | 3 | Vertical | 44 | 1.47 | - |
| AV | 2.4132G | 98.94 | Inf | -Inf | 32.19 | 3 | Vertical | 44 | 1.47 | - |
| AV | 2.496G | 46.75 | 54.00 | -7.25 | 32.46 | 3 | Vertical | 44 | 1.47 | - |
| PK | 2.3892G | 72.78 | 74.00 | -1.22 | 32.12 | 3 | Vertical | 44 | 1.47 | - |
| PK | 2.4128G | 110.27 | Inf | -Inf | 32.19 | 3 | Vertical | 44 | 1.47 | - |
| PK | 2.4888G | 63.97 | 74.00 | -10.03 | 32.44 | 3 | Vertical | 44 | 1.47 | - |



802.11n HT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

09/02/2018



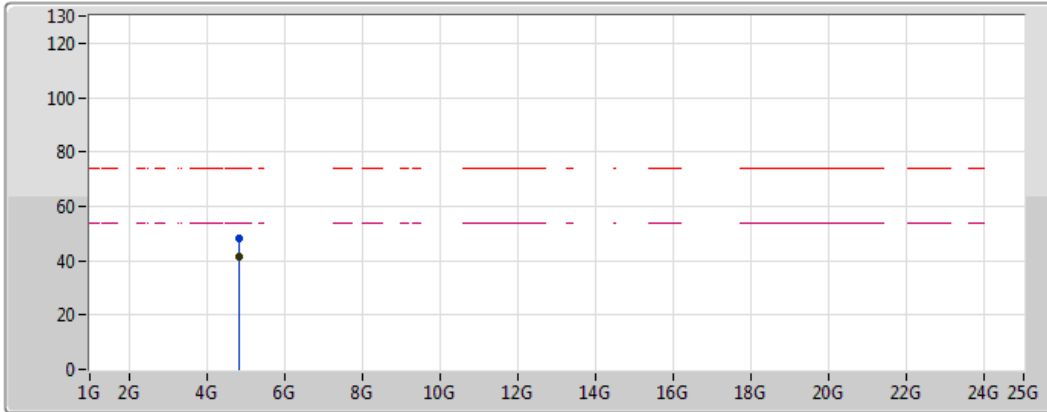
20180207
 EUT Z 2TX(Dipole)
 Setting 16
 06-J-6
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.84396G | 47.02 | 54.00 | -6.98 | 6.75 | 3 | Vertical | 186 | 1.20 | - |
| PK | 4.84383G | 51.64 | 74.00 | -22.36 | 6.75 | 3 | Vertical | 186 | 1.20 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

09/02/2018



Legend for plot:

- Lim.PK (Red dashed line)
- PK (Blue line with peak marker)
- Lim.AV (Magenta dashed line)
- AV (Black line with average marker)

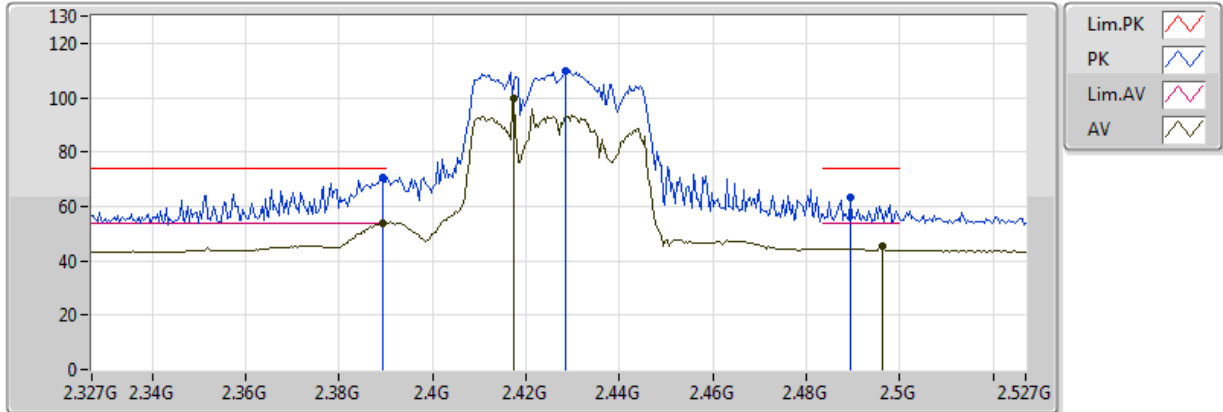
20180207
 EUT Z 2TX(Dipole)
 Setting 16
 06-J-6
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.84396G | 41.44 | 54.00 | -12.56 | 6.75 | 3 | Horizontal | 151 | 1.01 | - |
| PK | 4.84406G | 48.46 | 74.00 | -25.54 | 6.75 | 3 | Horizontal | 151 | 1.01 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2427MHz_TX

09/02/2018



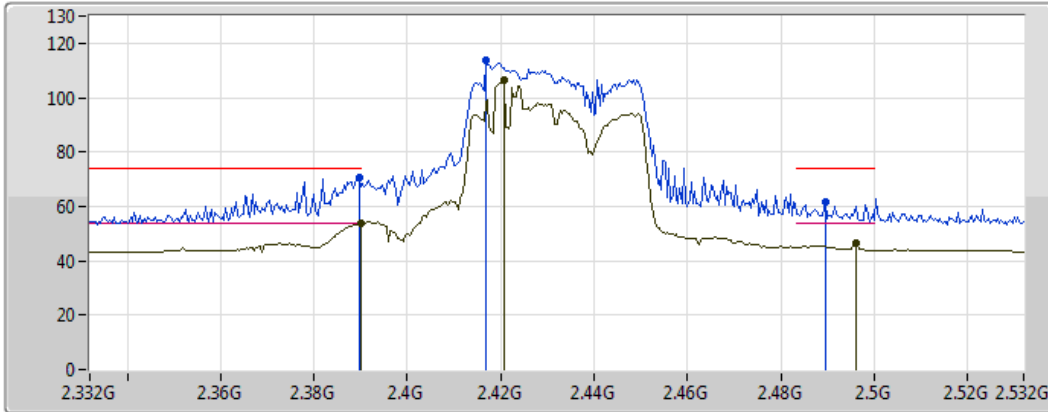
20180208H
 EUT Z 2TX(Dipole)
 Setting 15
 01-E-2
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3894G | 53.97 | 54.00 | -0.03 | 30.96 | 3 | Vertical | 6 | 1.10 | - |
| AV | 2.4174G | 99.93 | Inf | -Inf | 30.98 | 3 | Vertical | 6 | 1.10 | - |
| AV | 2.4962G | 45.30 | 54.00 | -8.70 | 31.21 | 3 | Vertical | 6 | 1.10 | - |
| PK | 2.3894G | 70.37 | 74.00 | -3.63 | 30.96 | 3 | Vertical | 6 | 1.10 | - |
| PK | 2.4286G | 110.03 | Inf | -Inf | 31.01 | 3 | Vertical | 6 | 1.10 | - |
| PK | 2.4894G | 63.41 | 74.00 | -10.59 | 31.19 | 3 | Vertical | 6 | 1.10 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2432MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak symbol
- PK: Blue line with a peak symbol
- Lim.AV: Green line with a peak symbol
- AV: Black line with a peak symbol

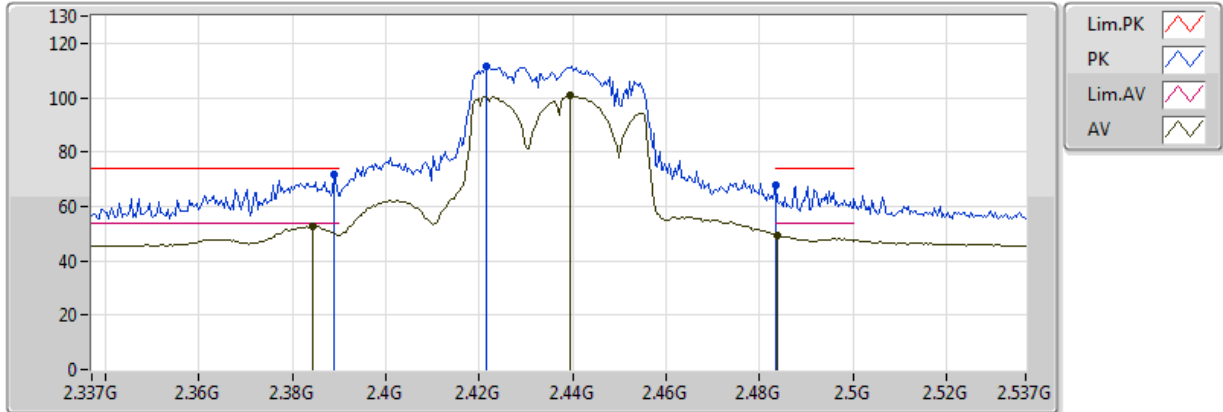
20180208H
 EUT Z 2TX(Dipole)
 Setting 16
 01-E-2
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 53.87 | 54.00 | -0.13 | 30.96 | 3 | Vertical | 0 | 1.10 | - |
| AV | 2.4208G | 106.48 | Inf | -Inf | 30.99 | 3 | Vertical | 0 | 1.10 | - |
| AV | 2.496G | 46.52 | 54.00 | -7.48 | 31.21 | 3 | Vertical | 0 | 1.10 | - |
| PK | 2.3896G | 70.49 | 74.00 | -3.51 | 30.96 | 3 | Vertical | 0 | 1.10 | - |
| PK | 2.4168G | 113.80 | Inf | -Inf | 30.98 | 3 | Vertical | 0 | 1.10 | - |
| PK | 2.4896G | 61.46 | 74.00 | -12.54 | 31.19 | 3 | Vertical | 0 | 1.10 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

09/02/2018



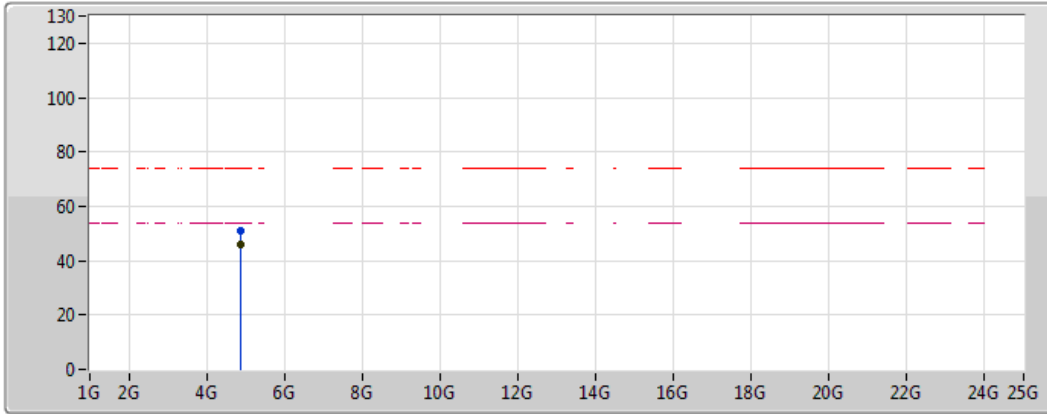
20180207
 EUT Z 2TX(Dipole)
 Setting 18.5
 06-J-6
 FSP
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3842G | 52.62 | 54.00 | -1.38 | 32.10 | 3 | Vertical | 13 | 1.48 | - |
| AV | 2.4394G | 100.61 | Inf | -Inf | 32.28 | 3 | Vertical | 13 | 1.48 | - |
| AV | 2.4838G | 49.42 | 54.00 | -4.58 | 32.42 | 3 | Vertical | 13 | 1.48 | - |
| PK | 2.389G | 71.84 | 74.00 | -2.16 | 32.11 | 3 | Vertical | 13 | 1.48 | - |
| PK | 2.4214G | 111.68 | Inf | -Inf | 32.22 | 3 | Vertical | 13 | 1.48 | - |
| PK | 2.483502G | 67.75 | 74.00 | -6.25 | 32.42 | 3 | Vertical | 13 | 1.48 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

09/02/2018



Legend for plot:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

20180207
 EUT Z 2TX(Dipole)
 Setting 18.5
 06-J-6
 FSP
 Sample Z(10.5 OVER)

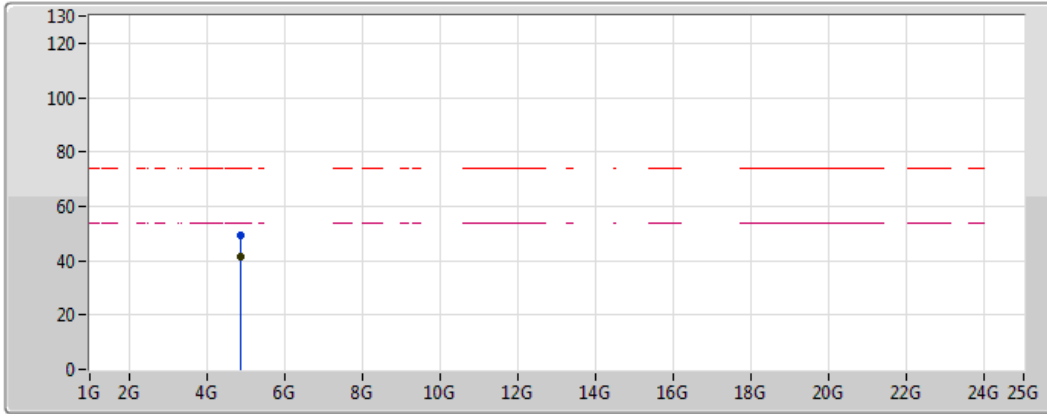
| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.87399G | 45.75 | 54.00 | -8.25 | 6.84 | 3 | Vertical | 187 | 1.19 | - |
| PK | 4.87399G | 51.05 | 74.00 | -22.95 | 6.84 | 3 | Vertical | 187 | 1.19 | - |



802.11n HT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

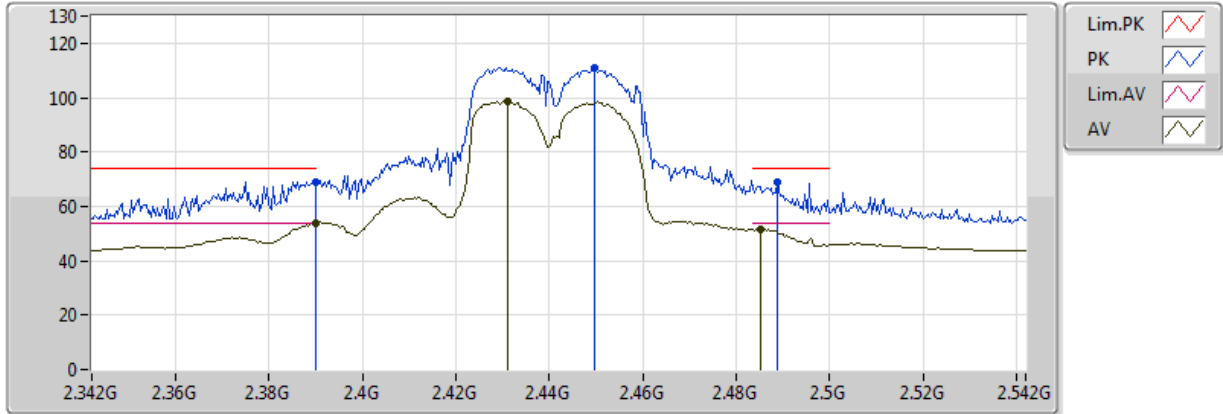
20180207
 EUT Z 2TX(Dipole)
 Setting 18.5
 06-J-6
 FSP
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|----------|
| AV | 4.8739G | 41.21 | 54.00 | -12.79 | 6.84 | 3 | Horizontal | 152 | 1.09 | - |
| PK | 4.87392G | 49.24 | 74.00 | -24.76 | 6.84 | 3 | Horizontal | 152 | 1.09 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2442MHz_TX

09/02/2018



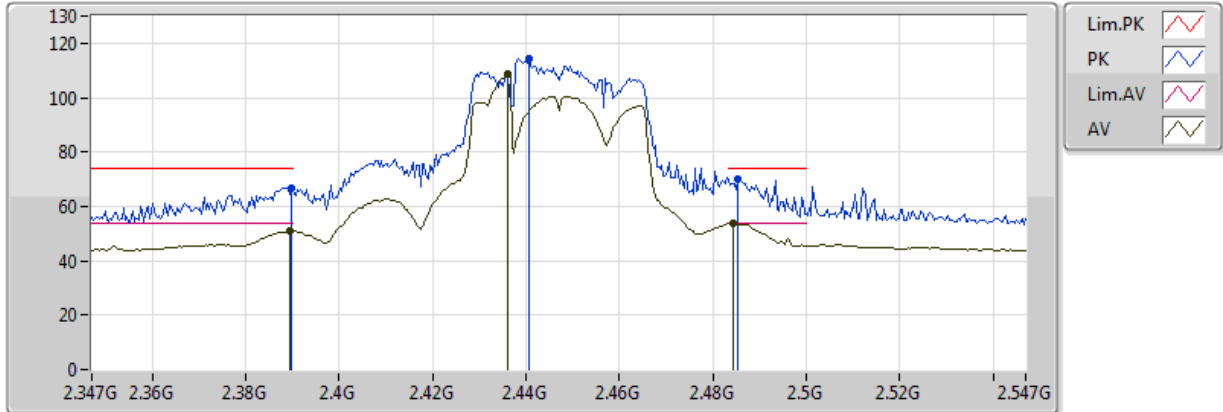
20180208H
 EUT Z 2TX(Dipole)
 Setting 18
 01-E-2
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.389998G | 53.59 | 54.00 | -0.41 | 30.96 | 3 | Vertical | 0 | 1.18 | - |
| AV | 2.4312G | 98.71 | Inf | -Inf | 31.02 | 3 | Vertical | 0 | 1.18 | - |
| AV | 2.4852G | 51.68 | 54.00 | -2.32 | 31.18 | 3 | Vertical | 0 | 1.18 | - |
| PK | 2.389998G | 69.14 | 74.00 | -4.86 | 30.96 | 3 | Vertical | 0 | 1.18 | - |
| PK | 2.4496G | 111.06 | Inf | -Inf | 31.07 | 3 | Vertical | 0 | 1.18 | - |
| PK | 2.4888G | 68.95 | 74.00 | -5.05 | 31.19 | 3 | Vertical | 0 | 1.18 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2447MHz_TX

09/02/2018



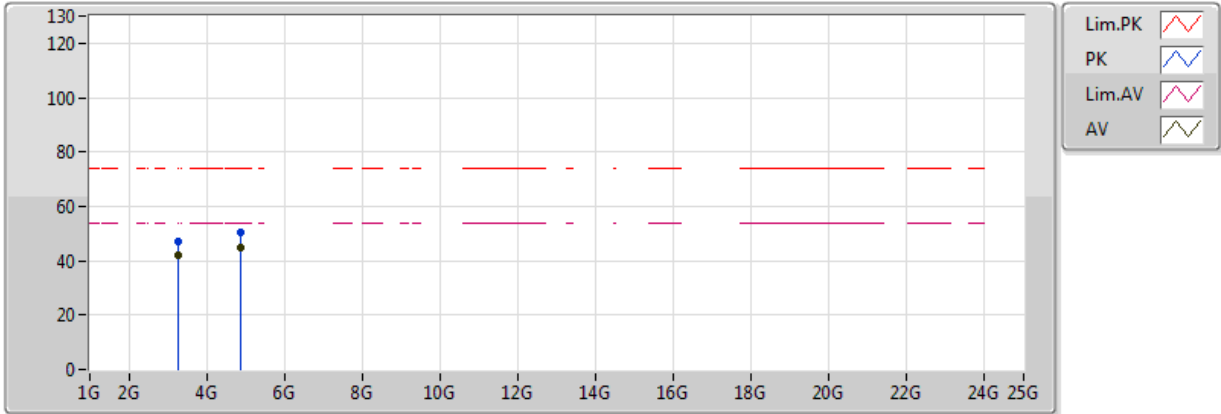
20180206
 EUT Z 2TX(Dipole)
 Setting 17.5
 01-E-2
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.3894G | 50.95 | 54.00 | -3.05 | 30.96 | 3 | Vertical | 163 | 1.16 | - |
| AV | 2.4362G | 108.51 | Inf | -Inf | 31.03 | 3 | Vertical | 163 | 1.16 | - |
| AV | 2.4842G | 53.85 | 54.00 | -0.15 | 31.17 | 3 | Vertical | 163 | 1.16 | - |
| PK | 2.3898G | 66.84 | 74.00 | -7.16 | 30.96 | 3 | Vertical | 163 | 1.16 | - |
| PK | 2.4406G | 114.36 | Inf | -Inf | 31.05 | 3 | Vertical | 163 | 1.16 | - |
| PK | 2.4854G | 70.14 | 74.00 | -3.86 | 31.18 | 3 | Vertical | 163 | 1.16 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2447MHz_TX

08/02/2018



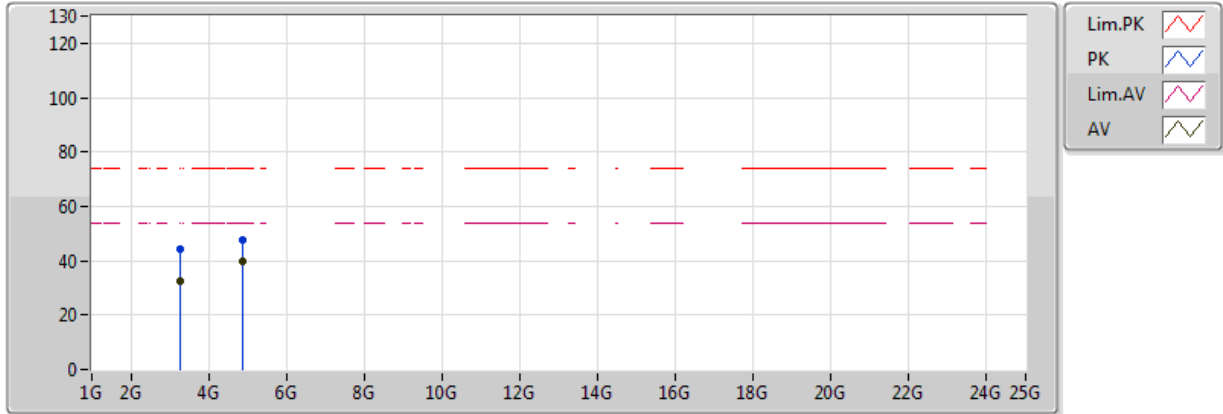
20180206
EUT Z 2TX(Dipolo)
Setting 17.5
01-E-2
FSP
Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| AV | 3.262607G | 41.81 | 54.00 | -12.19 | -0.02 | 3 | Vertical | 160 | 2.97 | - |
| AV | 4.89404G | 44.83 | 54.00 | -9.17 | 4.29 | 3 | Vertical | 180 | 1.14 | - |
| PK | 3.262487G | 47.26 | 74.00 | -26.74 | -0.02 | 3 | Vertical | 160 | 2.97 | - |
| PK | 4.89396G | 50.41 | 74.00 | -23.59 | 4.29 | 3 | Vertical | 180 | 1.14 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2447MHz_TX

08/02/2018



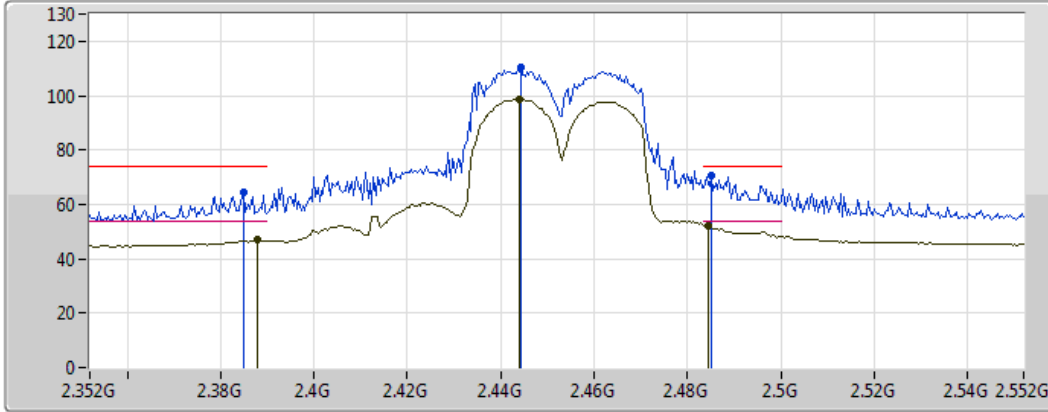
20180206
 EUT Z 2TX(Dipolo)
 Setting 17.5
 01-E-2
 FSP
 Sample Z

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV | 3.262667G | 32.70 | 54.00 | -21.30 | -0.07 | 3 | Horizontal | 326 | 1.02 | - |
| AV | 4.89388G | 39.85 | 54.00 | -14.15 | 4.22 | 3 | Horizontal | 144 | 1.27 | - |
| PK | 3.262667G | 44.11 | 74.00 | -29.89 | -0.07 | 3 | Horizontal | 326 | 1.02 | - |
| PK | 4.89396G | 47.70 | 74.00 | -26.30 | 4.23 | 3 | Horizontal | 144 | 1.27 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

09/02/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Red line with a valley icon
- AV: Blue line with a valley icon

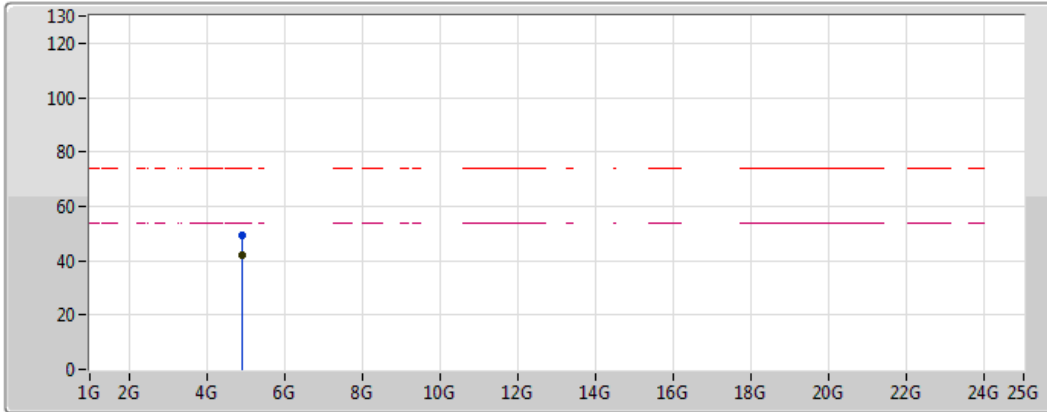
20180207
 EUT Z 2TX(Dipole)
 Setting 16.5
 06-J-6
 FSP
 Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 2.388G | 47.08 | 54.00 | -6.92 | 32.11 | 3 | Vertical | 10 | 1.02 | - |
| AV | 2.444G | 98.82 | Inf | -Inf | 32.29 | 3 | Vertical | 10 | 1.02 | - |
| AV | 2.4844G | 52.36 | 54.00 | -1.64 | 32.42 | 3 | Vertical | 10 | 1.02 | - |
| PK | 2.3848G | 64.64 | 74.00 | -9.36 | 32.10 | 3 | Vertical | 10 | 1.02 | - |
| PK | 2.4444G | 110.42 | Inf | -Inf | 32.29 | 3 | Vertical | 10 | 1.02 | - |
| PK | 2.4852G | 70.83 | 74.00 | -3.17 | 32.43 | 3 | Vertical | 10 | 1.02 | - |



**802.11n HT40-BF_Nss1,(MCS0)_2TX
2452MHz_TX**

09/02/2018



Legend:

- Lim.PK (Red dashed line)
- PK (Blue line)
- Lim.AV (Magenta dashed line)
- AV (Black line)

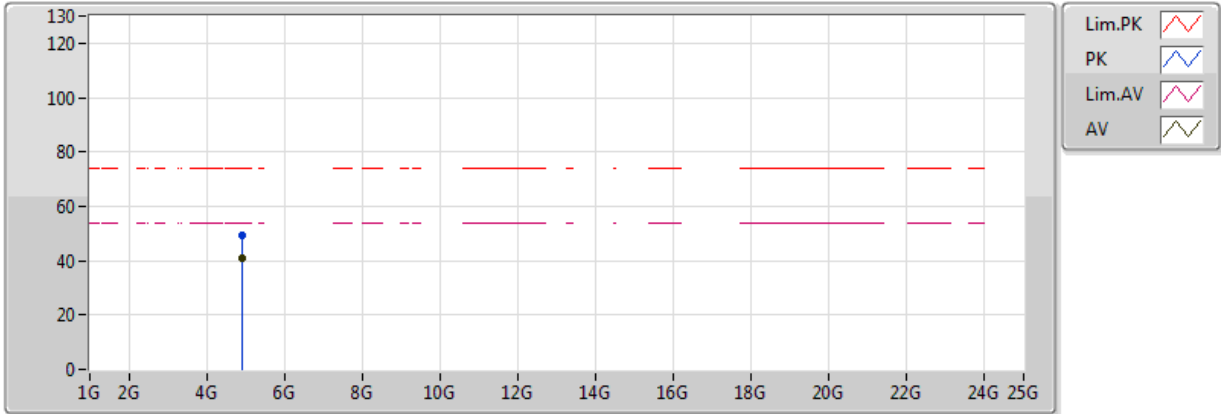
20180207
EUT Z 2TX(Dipole)
Setting 16.5
06-J-6
FSP
Sample Z(10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|----------|
| AV | 4.90393G | 42.22 | 54.00 | -11.78 | 6.92 | 3 | Vertical | 184 | 1.50 | - |
| PK | 4.90389G | 49.27 | 74.00 | -24.73 | 6.92 | 3 | Vertical | 184 | 1.50 | - |

802.11n HT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

09/02/2018



20180207
 EUT Z 2TX(Dipole)
 Setting 16.5
 06-J-6
 FSP
 Sample Z(+10.5 OVER)

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV | 4.90402G | 40.94 | 54.00 | -13.06 | 6.92 | 3 | Horizontal | 153 | 1.00 | - |
| PK | 4.90372G | 49.35 | 74.00 | -24.65 | 6.92 | 3 | Horizontal | 153 | 1.00 | - |



RSE Co-location Result

