

FCC 47 CFR PART 15 SUBPART C AND ANSI C63.10:2009
TEST REPORT

For
Computer

Model : TREK-572 ; TREK-572XXXXXXXXXXXXXX
(where "X" may be any alphanumeric character , "-" or blank)

Trade Name : ADVANTECH

Issued for

Advantech Co. Ltd.

**No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan,
R.O.C.**

Issued by

**Compliance Certification Services Inc.
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Issued Date: October 21, 2015



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Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|------|------------|---------------|--------------|--------------|
| 00 | 10/21/2015 | Initial Issue | All Page 154 | Gloria Chang |
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1. TEST REPORT CERTIFICATION

Applicant : Advantech Co. Ltd.
Address : No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C.
Equipment Under Test : Computer
Model : TREK-572 ; TREK-572XXXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)
Trade Name : ADVANTECH
Tested Date : September 11, 2014 ~ October 15, 2015

| APPLICABLE STANDARD | |
|---|-------------|
| Standard | Test Result |
| FCC Part 15 Subpart C AND ANSI C63.10:2009 | PASS |

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:



Sb. Lu
Sr. Engineer

Reviewed by:



Gundam Lin
Sr. Engineer

2. EUT DESCRIPTION

| | |
|----------------------------|---|
| Product Name | Computer |
| Model Number | TREK-572 ; TREK-572XXXXXXXXXXXXXX (where "X" may be any alphanumeric character , “-” or blank) |
| Identify Number | T150806L08 |
| Received Date | September 11, 2014 |
| Frequency Range | IEEE 802.11b/g, 802.11gn HT20 : 2412MHz ~ 2462MHz IEEE 802.11gn HT40 : 2422MHz ~ 2452MHz Bluetooth 4.0 : 2402MHz ~ 2480MHz |
| Transmit Power | IEEE 802.11b : 23.94 dBm (0.2477 W) IEEE 802.11g : 26.38 dBm (0.4345 W) IEEE 802.11gn HT20 : 26.01 dBm (0.3990 W) IEEE 802.11gn HT40 : 24.67 dBm (0.2931 W) Bluetooth 4.0 : 2.63 dBm (0.0018W) |
| Channel Spacing | IEEE 802.11b/g, 802.11gn HT20/HT40 : 5MHz Bluetooth 4.0: 2MHz |
| Channel Number | IEEE 802.11b/g, 802.11gn HT20 : 11 Channels IEEE 802.11gn HT40 : 7 Channels Bluetooth 4.0 : 40 Channels |
| Transmit Data Rate | IEEE 802.11b : up to 11 Mbps IEEE 802.11g : up to 54 Mbps IEEE 802.11gn (HT20,800ns GI) : up to 65.00 Mbps IEEE 802.11gn (HT20,400ns GI) : up to 72.20 Mbps IEEE 802.11gn (HT40,800ns GI) : up to 135.00 Mbps IEEE 802.11gn (HT40,400ns GI) : up to 150.00 Mbps Bluetooth 4.0 : Additional GFSK |
| Type of Modulation | IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g : OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11gn HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK) Bluetooth 4.0 : DSSS |
| Antenna Type | PIFA Antenna , Antenna Gain : 3.97 dBi |
| Power Rating | 9-32Vdc |
| Test Voltage | 120Vac, 60Hz |
| DC Power Cable Type | Non-shielded cable, 1.5m × 1 (Detachable) |
| I/O Port | EUT : RJ-45 Port × 1, USB Port × 1, Power Port × 1, VGA Port × 1, Signal Port × 1, Audio Port × 2 Panel : Signal Port × 1, USB Port × 1 |
| Signal Cable | Shielded signal cable, 2m × 1 (Detachable), with two ferrite core |

The difference of the series model

| Model Number | Difference |
|------------------------|--|
| TREK-572 | 1. For marketing purpose only. 2. where "X" may be any alphanumeric character , " - " or blank |
| TREK-572XXXXXXXXXXXXXX | |

Remark :

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. For more details, please refer to the User's manual of the EUT.
3. The model TREK-572 was considered the main model for testing.
- 4 This submittal(s) (test report) is intended for FCC ID: M82-TREK572PTCRB filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. DESCRIPTION OF TEST MODES

The EUT is an 802.11n transceiver in Computer form factor.

For IEEE 802.11b/g, 802.11gn HT20/HT40 mode : 1TX/1RX.

Conducted Emission / Radiated Emission Test (Below 1 GHz)

1. The following test modes were scanned during the preliminary test:

| No. | Pre-Test Mode |
|-----|---------------|
| 1 | TX Mode |

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

| Final Test Mode | | |
|-----------------|--------------------|---------|
| Emission | Radiated Emission | TX Mode |
| | Conducted Emission | N/A |

Remark : Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

Conducted / Radiated Emission Test (Above 1 GHz)**IEEE 802.11b, 802.11g, 802.11gn HT20 mode**

The EUT had been tested under operating condition.

There are three channels have been tested as following :

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low | 2412 |
| Middle | 2437 |
| High | 2462 |

IEEE 802.11b mode : 1Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11g mode : 6Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11gn HT20 mode : 6.5Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11gn HT40 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following :

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low | 2422 |
| Middle | 2437 |
| High | 2452 |

IEEE 802.11gn HT40 mode : 13.5Mbps data rate (worst case) were chosen for full testing.

Bluetooth 4.0 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following :

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low | 2402 |
| Middle | 2440 |
| High | 2480 |

Remark : The field strength of spurious emission was measured in the following position: EUT stand-up position(X axis), lie-down position(X, Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2009 and FCC CFR 47, 15.207, 15.209 and 15.247.

5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
NO. 989-1, Wenshan Rd., Shangshan Village,
Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.10:2009 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

| | |
|---------------|-----------------|
| Canada | INDUSTRY CANADA |
| Japan | VCCI |
| Taiwan | BSMI |
| USA | FCC MRA |

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

Remark: FCC Designation Number TW1027.

5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

| PARAMETER | UNCERTAINTY |
|---|-------------|
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 30 to 1000 MHz | +/- 3.97 |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 1 to 18GHz | +/- 3.58 |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 18 to 26 GHz | +/- 3.59 |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 26 to 40 GHz | +/- 3.81 |
| Conducted Emission (Mains Terminals), 9kHz to 30MHz | +/- 2.48 |

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

Consistent with industry standard (e.g. CISPR 22, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

| No. | Product | Manufacturer | Model No. | Serial No. |
|-----|-----------------|-----------------|---------------|------------|
| 1 | Notebook PC | HP | ProBook 4421s | CNF03242PJ |
| 2 | DC Power Supply | Rohde & Schwarz | NGSM 32/10 | 100232 |

| No. | Signal Cable Description |
|-----|-----------------------------------|
| 1 | Non-shielded RJ-45 cable, 12m × 1 |

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

WiFi

1. EUT & peripherals setup diagram is shown in appendix setup photos.
2. Run Test software. "artqui"

(1) TX Mode:

- Tx Data Rate: 1Mbps Bandwidth 20 (IEEE 802.11b mode)
- 6Mbps Bandwidth 20 (IEEE 802.11g mode)
- 6.5Mbps Bandwidth 20 (IEEE 802.11gn HT20 mode)
- 13.5Mbps Bandwidth 40 (IEEE 802.11gn HT40 mode)

Power control

- IEEE 802.11b Channel Low (2412MHz) Power set 17.5
- IEEE 802.11b Channel Mid (2442MHz) Power set 22
- IEEE 802.11b Channel High (2472MHz) Power set 18
- IEEE 802.11g Channel Low (2412MHz) Power set 14
- IEEE 802.11g Channel Mid (2442MHz) Power set 21
- IEEE 802.11g Channel High (2472MHz) Power set 15
- IEEE 802.11gn HT20 Channel Low (2412MHz) Power set 13
- IEEE 802.11gn HT20 Channel Mid (2442MHz) Power set 20
- IEEE 802.11gn HT20 Channel High (2472MHz) Power set 14
- IEEE 802.11gn HT40 Channel Low (2422MHz) Power set 11
- IEEE 802.11gn HT40 Channel Mid (2442MHz) Power set 16
- IEEE 802.11gn HT40 Channel High (2462MHz) Power set 12

3. All of the functions are under run.

4. Start test.

Bluetooth 4.0

1. EUT & peripherals setup diagram is shown in appendix setup photos.

2. Run "BtUSBTool" Software to test

3. PACKET TRANSMIT (TX Mode)

Freq: 2402, 2440, 2480

Power Setting : Default

4. All of the functions are under run.

5. Start test

7. FCC PART 15.247 REQUIREMENTS

7.1 6dB BANDWIDTH

LIMITS

§ 15.247(a) (2) For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|--------|---------------|-----------------|
| Spectrum Analyzer | Agilent | E4446A | MY43360132 | 06/10/2015 |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

1. The transmitter output was connected to a spectrum analyzer.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST RESULTS**IEEE 802.11b Mode**

| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (kHz) | Pass / Fail |
|---------|-------------------------|---------------------|---------------------|-------------|
| Low | 2412 | 10.04 | 500 | PASS |
| Middle | 2437 | 10.07 | 500 | PASS |
| High | 2462 | 10.06 | 500 | PASS |

IEEE 802.11g Mode

| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (kHz) | Pass / Fail |
|---------|-------------------------|---------------------|---------------------|-------------|
| Low | 2412 | 16.35 | 500 | PASS |
| Middle | 2437 | 16.39 | 500 | PASS |
| High | 2462 | 16.36 | 500 | PASS |

IEEE 802.11gn HT20 Mode

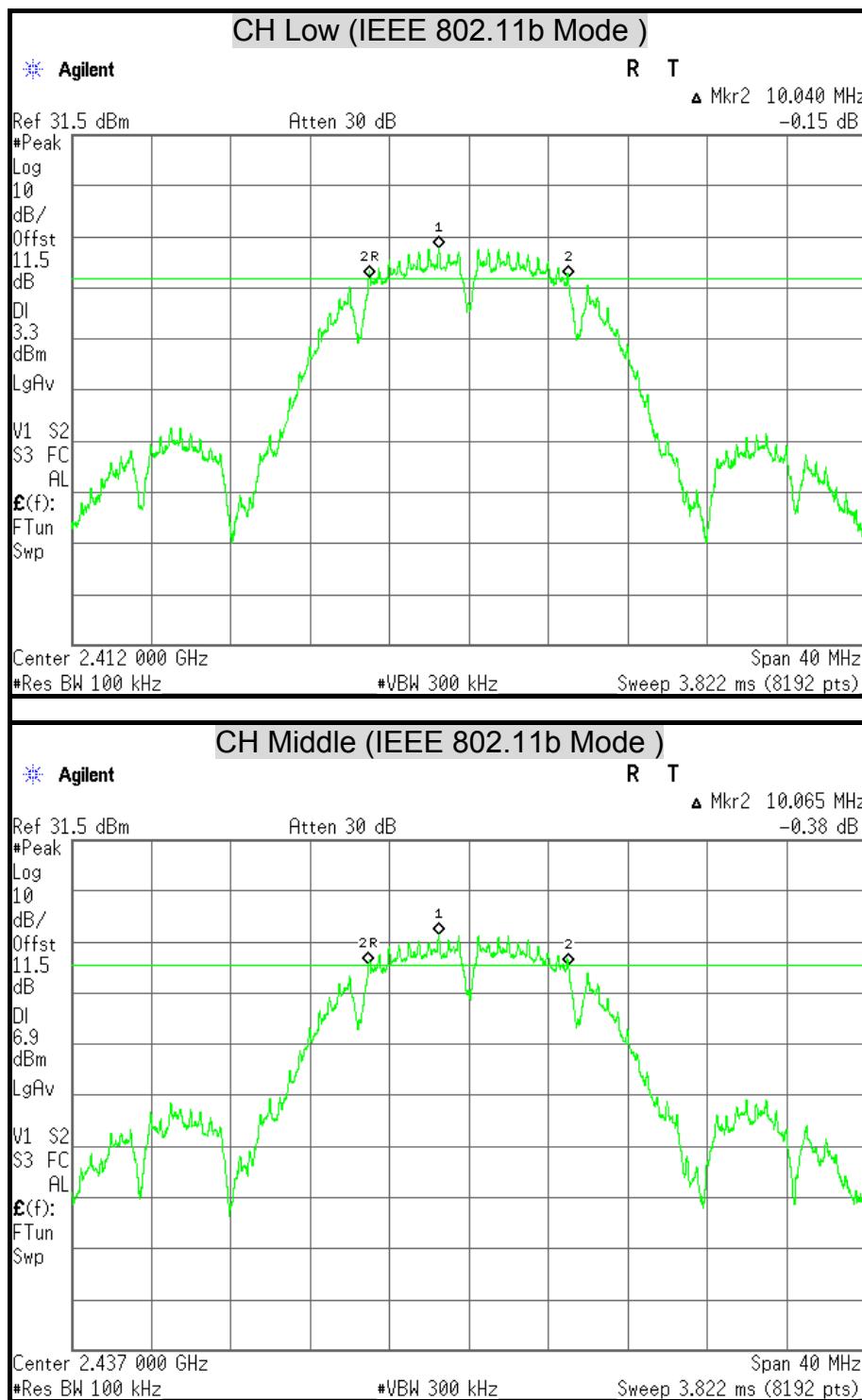
| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (kHz) | Pass / Fail |
|---------|-------------------------|---------------------|---------------------|-------------|
| Low | 2412 | 17.54 | 500 | PASS |
| Middle | 2437 | 17.31 | 500 | PASS |
| High | 2462 | 17.56 | 500 | PASS |

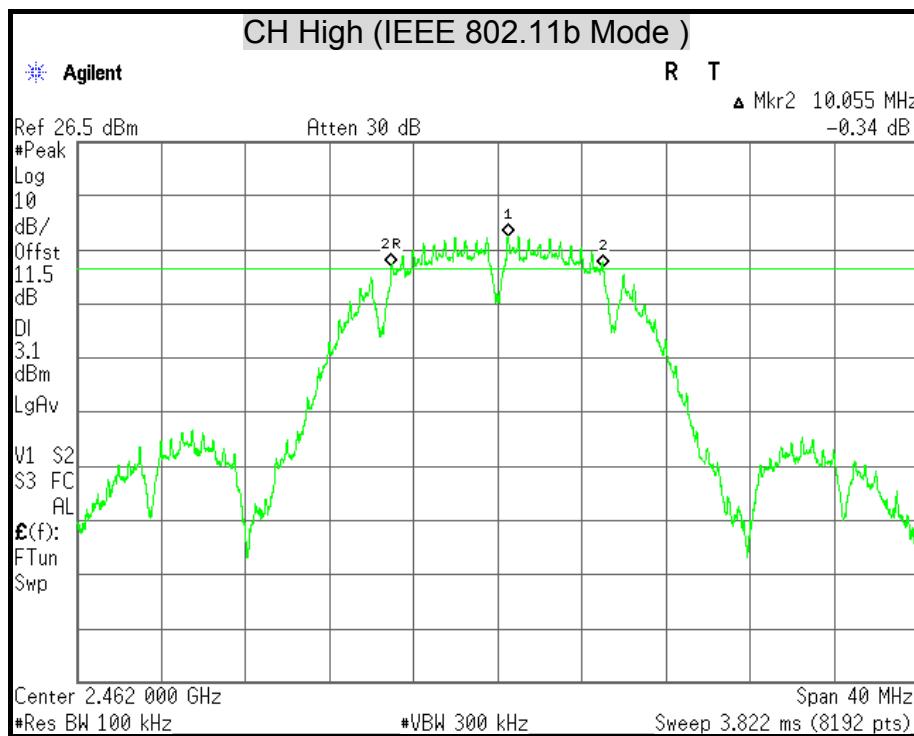
IEEE 802.11gn HT40 Mode

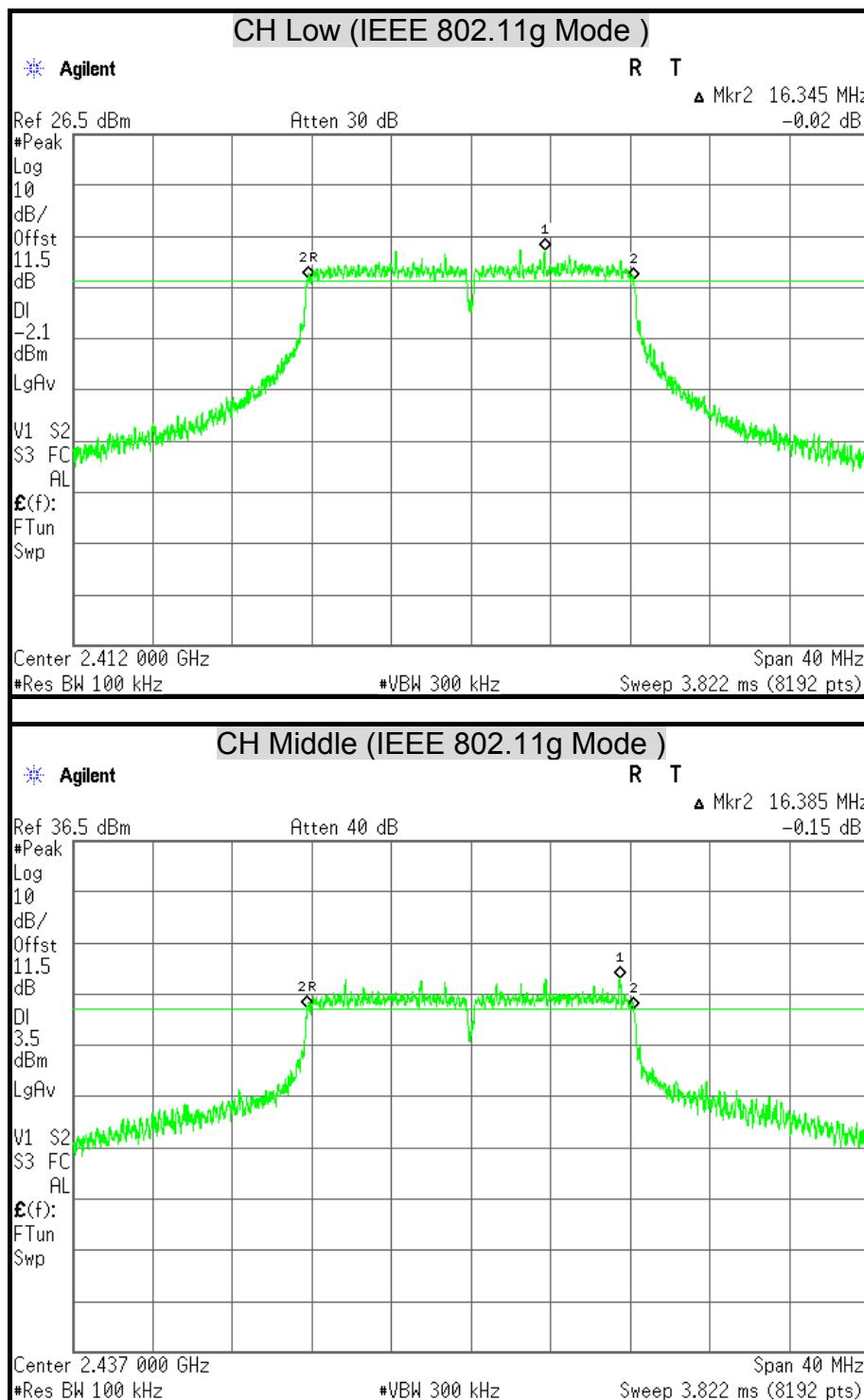
| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (kHz) | Pass / Fail |
|---------|-------------------------|---------------------|---------------------|-------------|
| Low | 2422 | 36.38 | 500 | PASS |
| Middle | 2437 | 36.40 | 500 | PASS |
| High | 2452 | 36.33 | 500 | PASS |

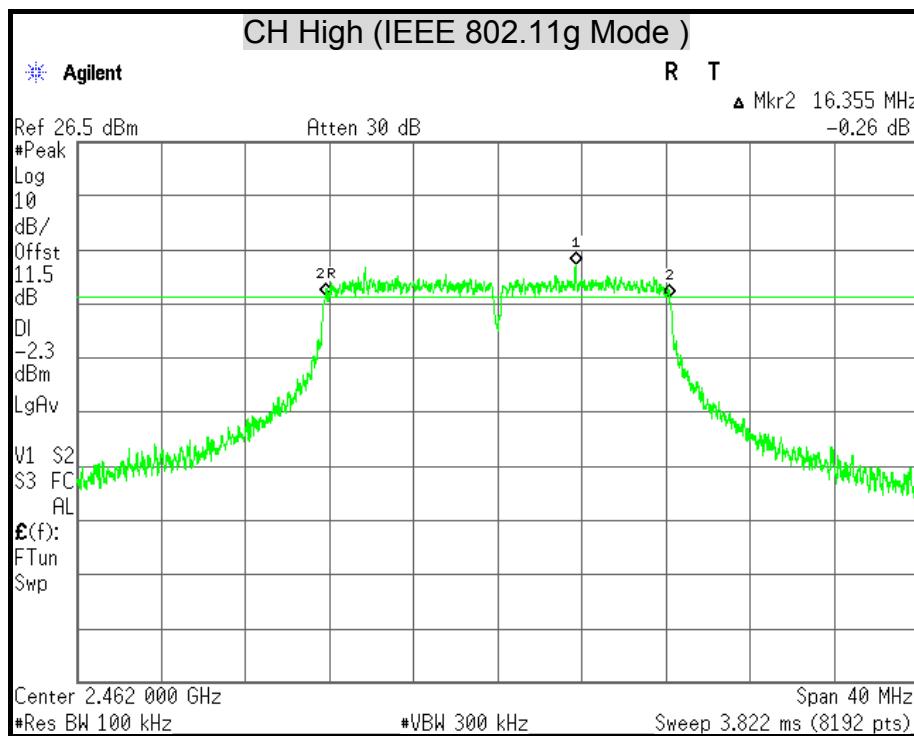
Bluetooth 4.0 Mode

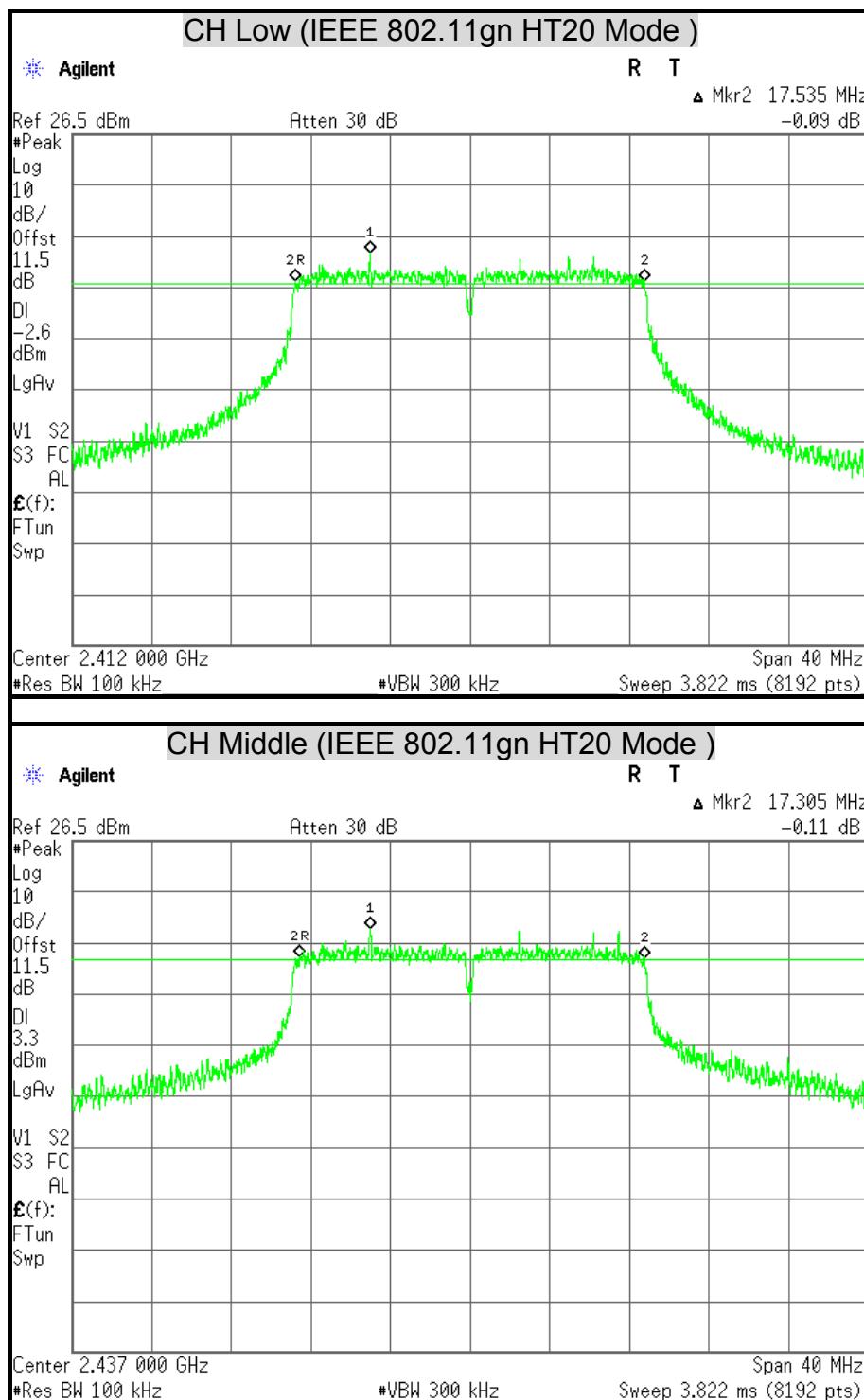
| Channel | Channel Frequency (MHz) | 6dB Bandwidth (kHz) | Minimum Limit (kHz) | Pass / Fail |
|---------|-------------------------|---------------------|---------------------|-------------|
| Low | 2402 | 664.2 | 500 | PASS |
| Middle | 2440 | 669.3 | 500 | PASS |
| High | 2480 | 669.3 | 500 | PASS |

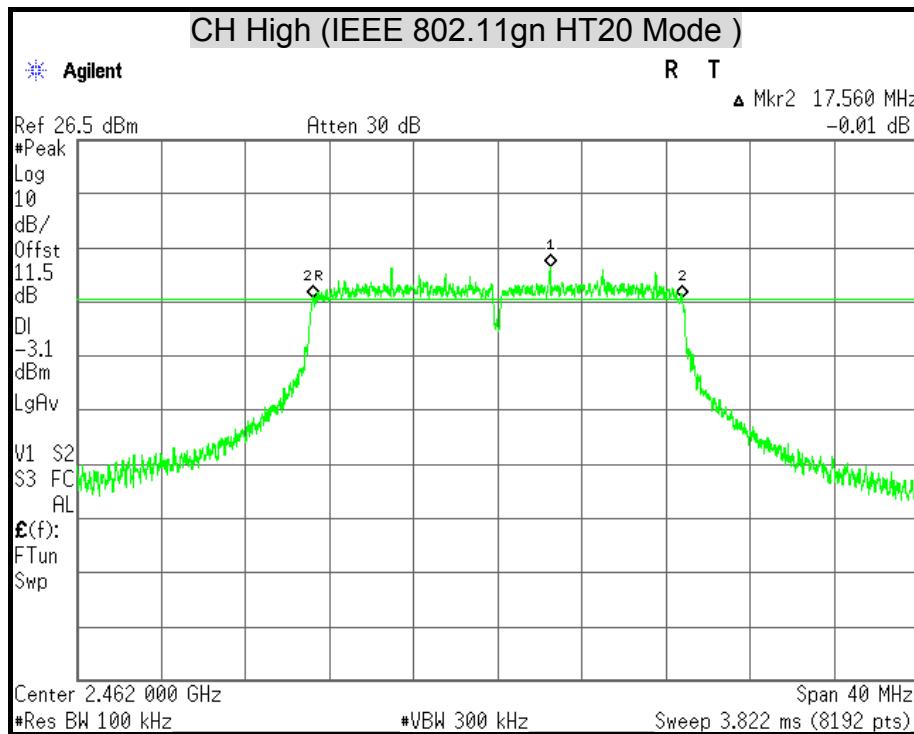
6dB BANDWIDTH

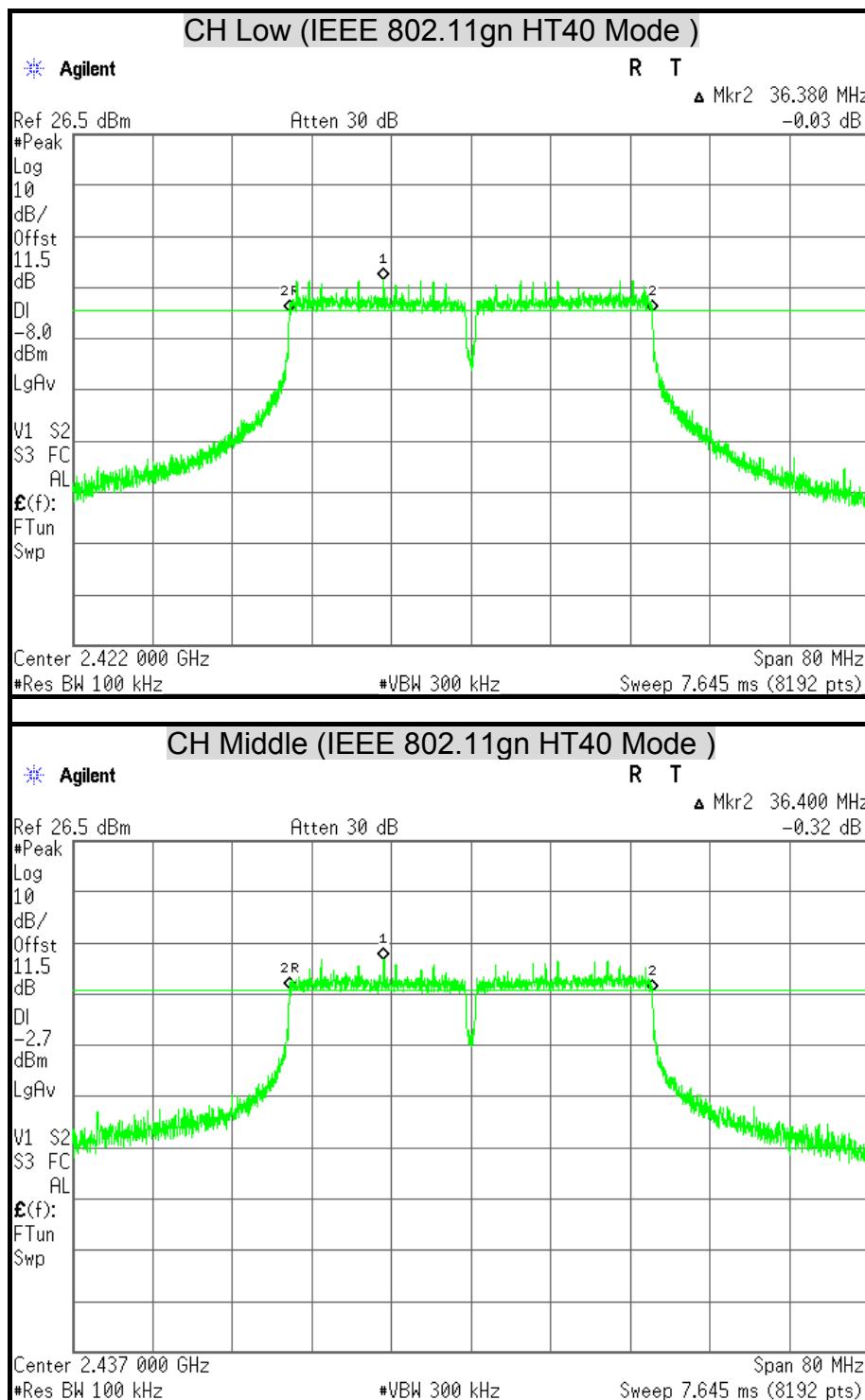


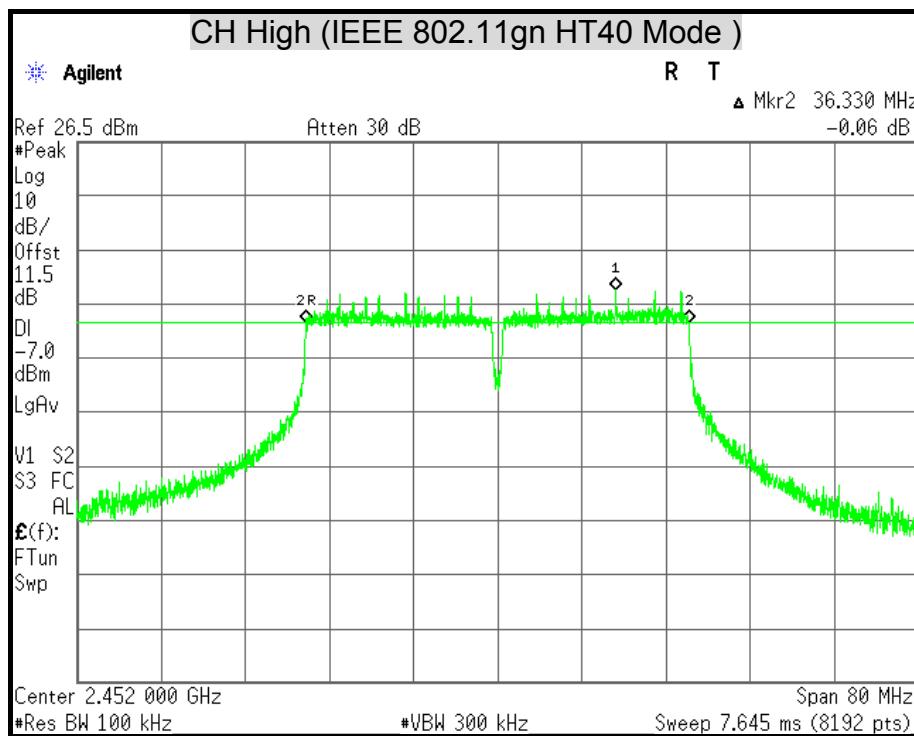


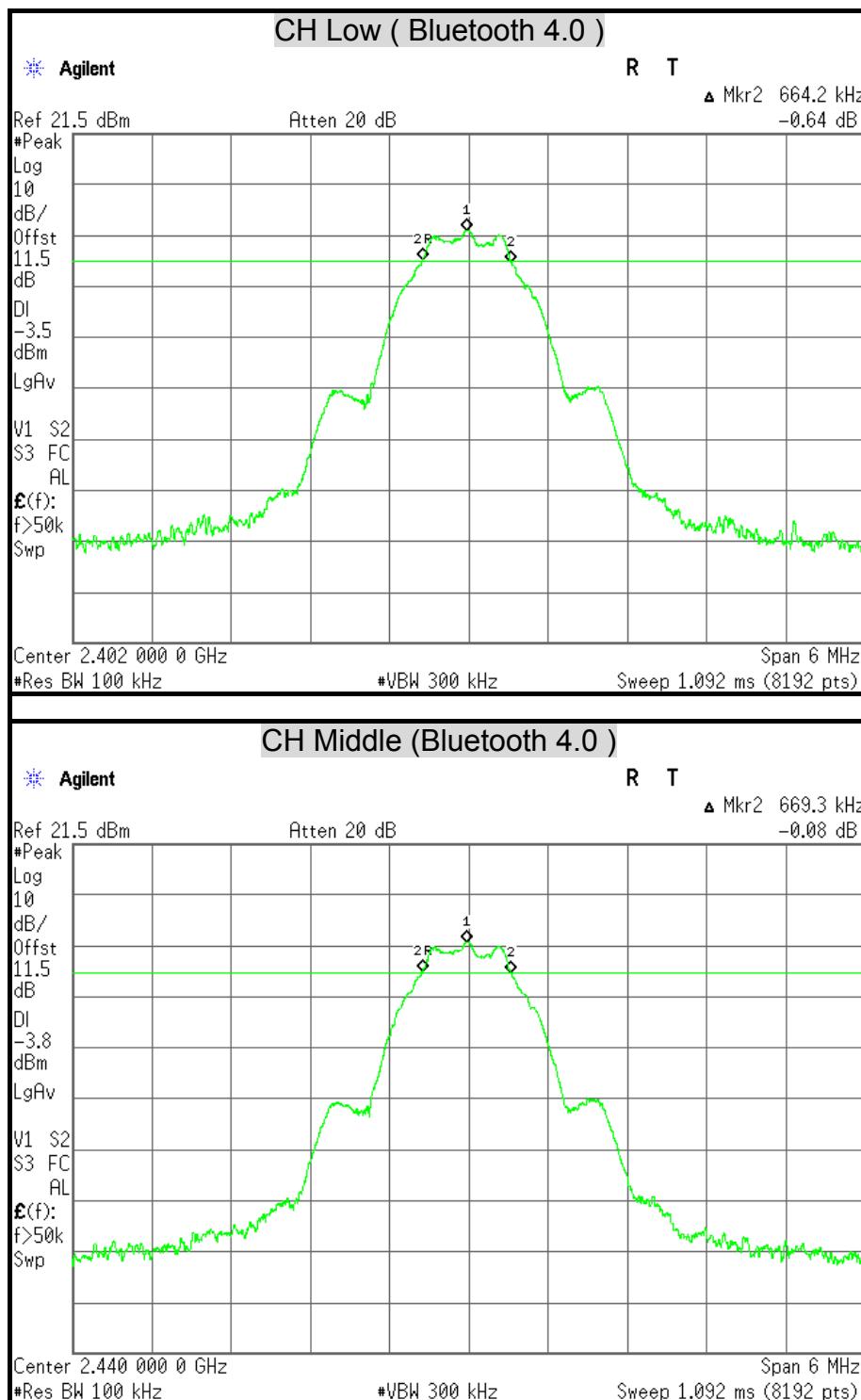


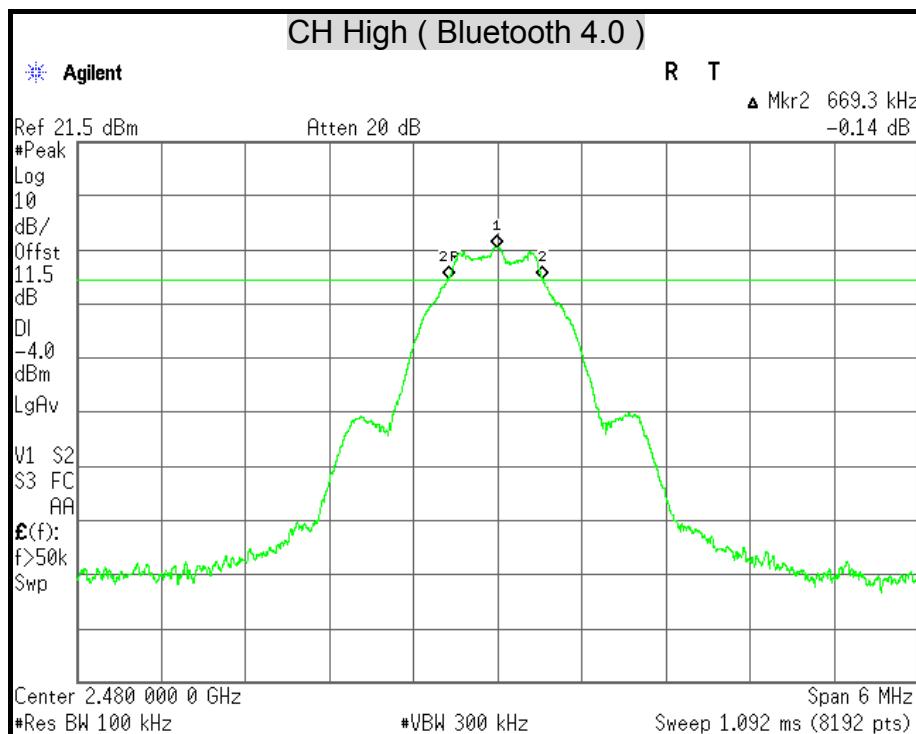












7.2 MAXIMUM PEAK OUTPUT POWER

LIMITS

§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following :

§ 15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands : 1 watt.

§ 15.247(b) (4) Except as shown in paragraphs (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|---------|---------------|-----------------|
| Power Meter | Anritsu | ML2495A | 1149001 | 12/06/2014 |
| Power Sensor | Anritsu | MA2411B | 1126148 | 12/06/2014 |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the power meter. The power meter is set to the peak power detection.

TEST RESULTS**IEEE 802.11b Mode**

| Channel | Channel Frequency (MHz) | Peak Power | | Peak Power Limit | | Pass / Fail |
|---------|-------------------------|------------|--------|------------------|-----|-------------|
| | | (dBm) | (W) | (dBm) | (W) | |
| Low | 2412 | 20.49 | 0.1119 | 30 | 1 | PASS |
| Middle | 2437 | 23.94 | 0.2477 | 30 | 1 | PASS |
| High | 2462 | 20.36 | 0.1086 | 30 | 1 | PASS |

Remark:

1. At final test to get the worst-case emission at 1Mbps.
2. The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11g Mode

| Channel | Channel Frequency (MHz) | Peak Power | | Peak Power Limit | | Pass / Fail |
|---------|-------------------------|------------|--------|------------------|-----|-------------|
| | | (dBm) | (W) | (dBm) | (W) | |
| Low | 2412 | 23.11 | 0.2046 | 30 | 1 | PASS |
| Middle | 2437 | 26.38 | 0.4345 | 30 | 1 | PASS |
| High | 2462 | 23.02 | 0.2004 | 30 | 1 | PASS |

Remark:

1. At final test to get the worst-case emission at 6Mbps.
2. The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11gn HT20 Mode

| Channel | Channel Frequency (MHz) | Peak Power | | Peak Power Limit | | Pass / Fail |
|---------|-------------------------|------------|--------|------------------|-----|-------------|
| | | (dBm) | (W) | (dBm) | (W) | |
| Low | 2412 | 22.56 | 0.1803 | 30 | 1 | PASS |
| Middle | 2437 | 26.01 | 0.3990 | 30 | 1 | PASS |
| High | 2462 | 22.51 | 0.1782 | 30 | 1 | PASS |

Remark:

1. At final test to get the worst-case emission at 6.5Mbps.
2. The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11gn HT40 Mode

| Channel | Channel Frequency (MHz) | Peak Power | | Peak Power Limit | | Pass / Fail |
|---------|-------------------------|------------|--------|------------------|-----|-------------|
| | | (dBm) | (W) | (dBm) | (W) | |
| Low | 2422 | 20.51 | 0.1125 | 30 | 1 | PASS |
| Middle | 2437 | 24.67 | 0.2931 | 30 | 1 | PASS |
| High | 2452 | 21.00 | 0.1259 | 30 | 1 | PASS |

Remark:

1. At final test to get the worst-case emission at 13.5Mbps.
2. The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

Bluetooth 4.0 Mode

| Channel | Channel Frequency (MHz) | Peak Power | | Peak Power Limit | | Pass / Fail |
|---------|-------------------------|------------|--------|------------------|-----|-------------|
| | | (dBm) | (W) | (dBm) | (W) | |
| Low | 2402 | 2.63 | 0.0018 | 30 | 1 | PASS |
| Middle | 2440 | 2.47 | 0.0018 | 30 | 1 | PASS |
| High | 2480 | 2.46 | 0.0018 | 30 | 1 | PASS |

Remark: The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

7.3 AVERAGE POWER

LIMITS

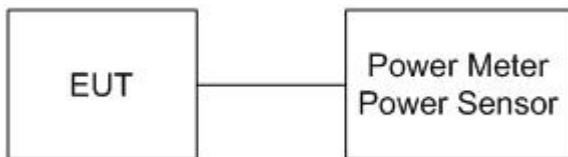
None; for reporting purposes only.

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|---------|---------------|-----------------|
| Power Meter | ANRITSU | ML2495A | 1149001 | 12/06/2014 |
| Power Sensor | ANRITSU | MA2411B | 1126148 | 12/06/2014 |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the power meter. The power meter is set to the average power detection.

TEST RESULTS**IEEE 802.11b Mode**

| Channel | Channel Frequency (MHz) | Average Power (dBm) |
|---------|-------------------------|---------------------|
| Low | 2412 | 18.35 |
| Middle | 2437 | 21.94 |
| High | 2462 | 18.16 |

Remark:

1. At final test to get the worst-case emission at 1Mbps.
2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11g Mode

| Channel | Channel Frequency (MHz) | Average Power (dBm) |
|---------|-------------------------|---------------------|
| Low | 2412 | 15.28 |
| Middle | 2437 | 20.88 |
| High | 2462 | 15.30 |

Remark:

1. At final test to get the worst-case emission at 6Mbps.
2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11gn HT20 Mode

| Channel | Channel Frequency (MHz) | Average Power (dBm) |
|---------|-------------------------|---------------------|
| Low | 2412 | 14.44 |
| Middle | 2437 | 19.95 |
| High | 2462 | 14.48 |

Remark:

1. At final test to get the worst-case emission at 6.5Mbps.
2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11gn HT40 Mode

| Channel | Channel Frequency (MHz) | Average Power (dBm) |
|---------|-------------------------|---------------------|
| Low | 2422 | 12.35 |
| Middle | 2437 | 17.41 |
| High | 2452 | 12.80 |

Remark:

1. At final test to get the worst-case emission at 13.5Mbps.
2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

Bluetooth 4.0 Mode

| Channel | Channel Frequency (MHz) | Average Power (dBm) |
|---------|-------------------------|---------------------|
| Low | 2402 | 2.39 |
| Middle | 2440 | 2.22 |
| High | 2480 | 2.21 |

Remark: The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

7.4 POWER SPECTRAL DENSITY

LIMITS

§ 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|--------|---------------|-----------------|
| Spectrum Analyzer | Agilent | E4446A | MY43360132 | 06/10/2015 |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set analyzer center frequency to DTS channel center frequency.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
5. Set the VBW $\geq 3 \times \text{RBW}$.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level within the RBW.
11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST RESULTS**IEEE 802.11b Mode**

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Minimum Limit (dBm) | Pass / Fail |
|---------|-------------------------|---------------------------------------|---------------------|-------------|
| Low | 2412 | -4.30 | 8 | PASS |
| Middle | 2437 | -0.10 | 8 | PASS |
| High | 2462 | -5.23 | 8 | PASS |

Remark:

1. At final test to get the worst-case emission at 1Mbps.
2. The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11g Mode

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Minimum Limit (dBm) | Pass / Fail |
|---------|-------------------------|---------------------------------------|---------------------|-------------|
| Low | 2412 | -8.76 | 8 | PASS |
| Middle | 2437 | -4.32 | 8 | PASS |
| High | 2462 | -9.33 | 8 | PASS |

Remark:

1. At final test to get the worst-case emission at 6Mbps.
2. The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11gn HT20 Mode

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Minimum Limit (dBm) | Pass / Fail |
|---------|-------------------------|---------------------------------------|---------------------|-------------|
| Low | 2412 | -11.61 | 8 | PASS |
| Middle | 2437 | -5.53 | 8 | PASS |
| High | 2462 | -10.57 | 8 | PASS |

Remark:

1. At final test to get the worst-case emission at 6.5Mbps.
2. The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11gn HT40 Mode

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Minimum Limit (dBm) | Pass / Fail |
|---------|-------------------------|---------------------------------------|---------------------|-------------|
| Low | 2422 | -15.53 | 8 | PASS |
| Middle | 2437 | -11.24 | 8 | PASS |
| High | 2452 | -15.88 | 8 | PASS |

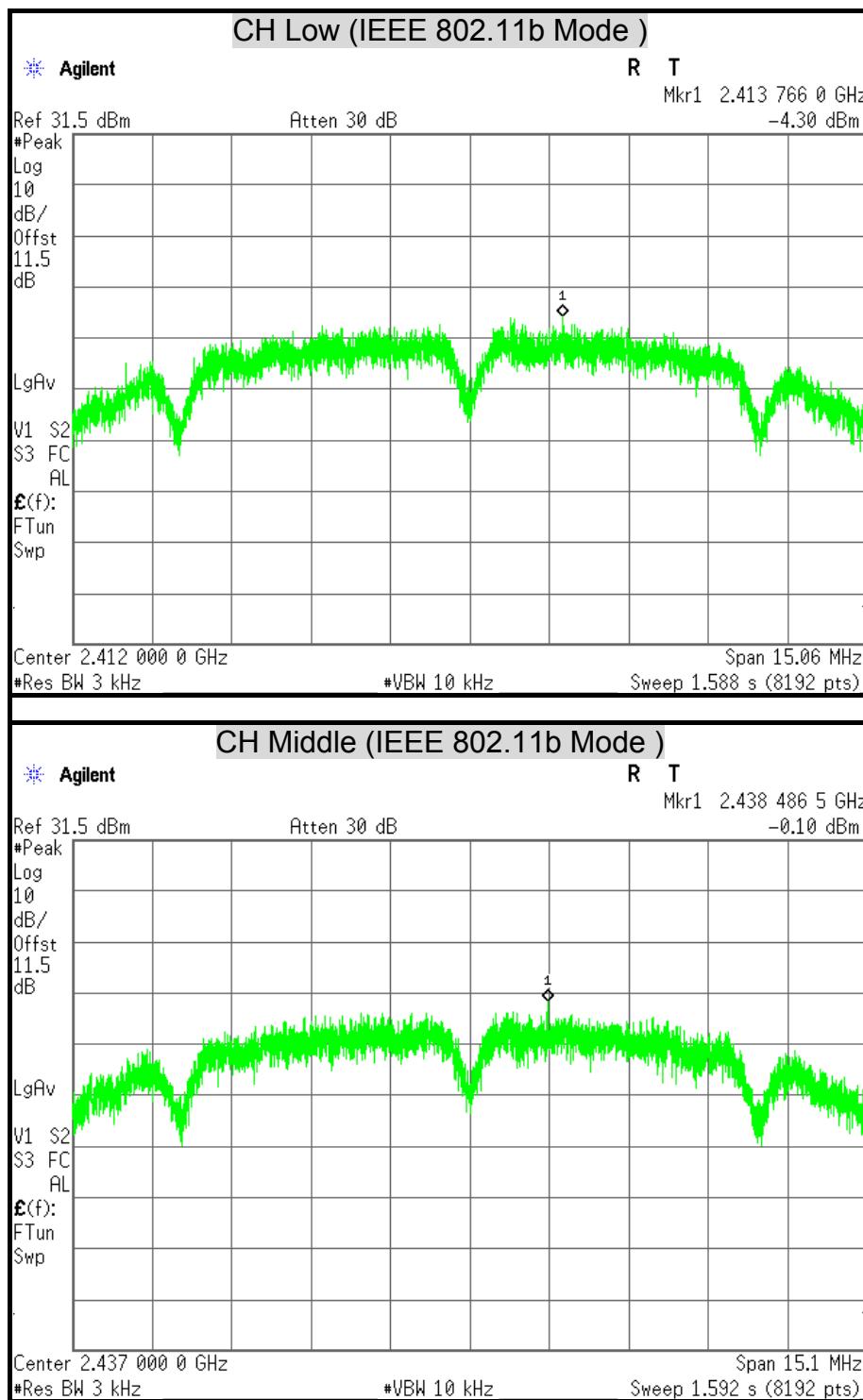
Remark:

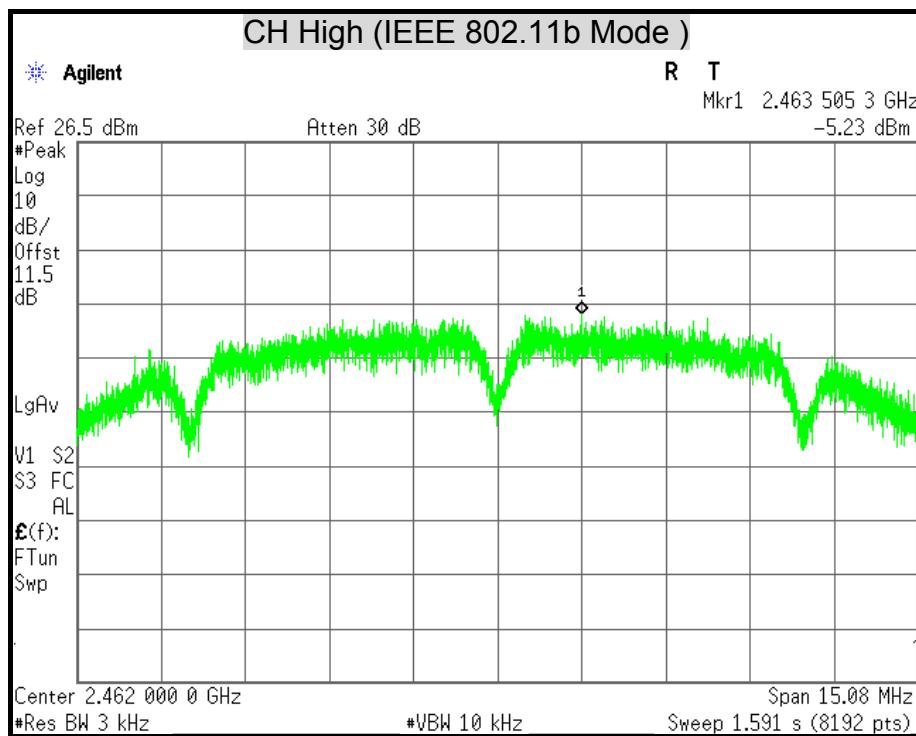
1. At final test to get the worst-case emission at 13.5Mbps.
2. The cable assembly insertion loss of 10.5dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

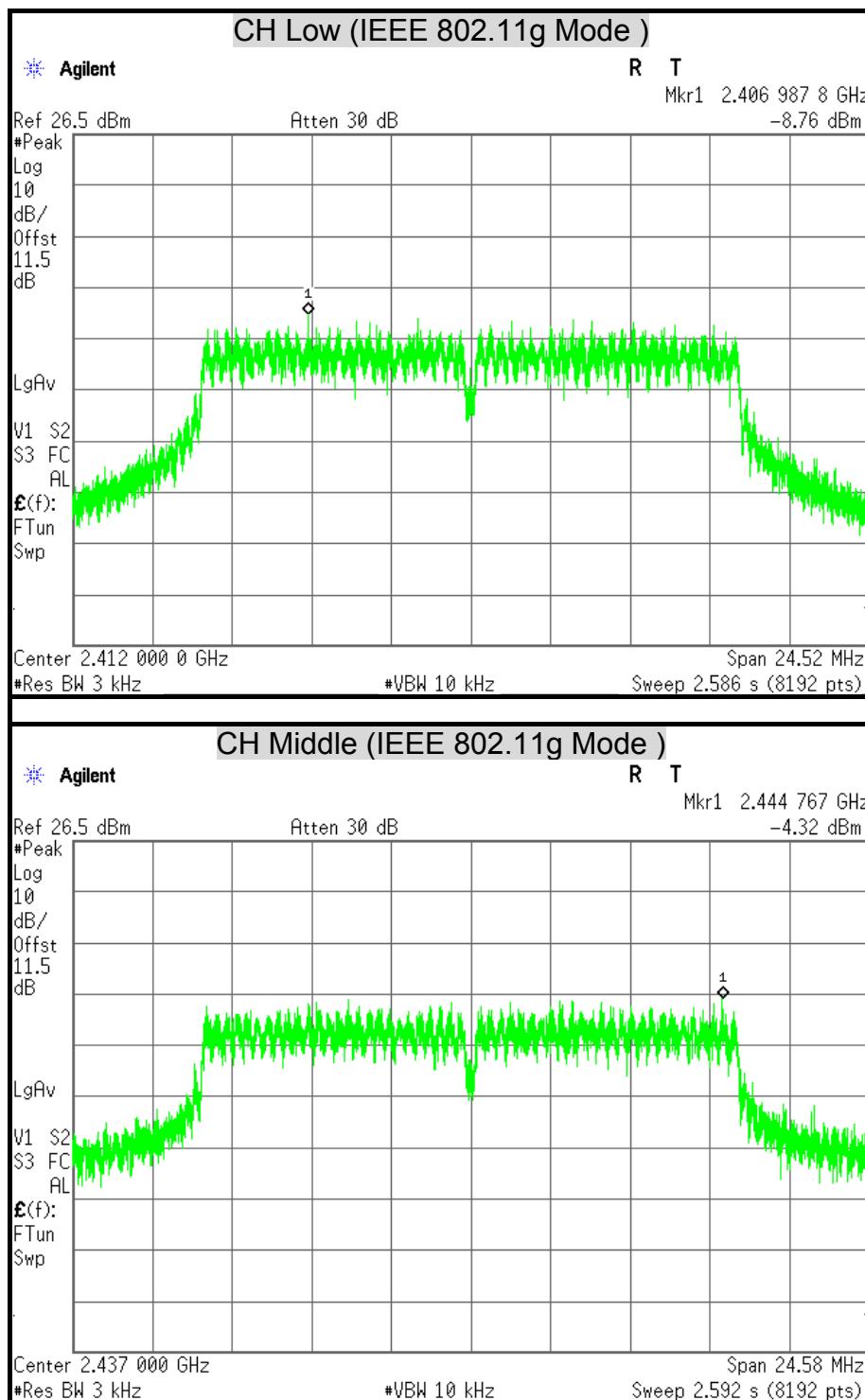
Bluetooth 4.0 Mode

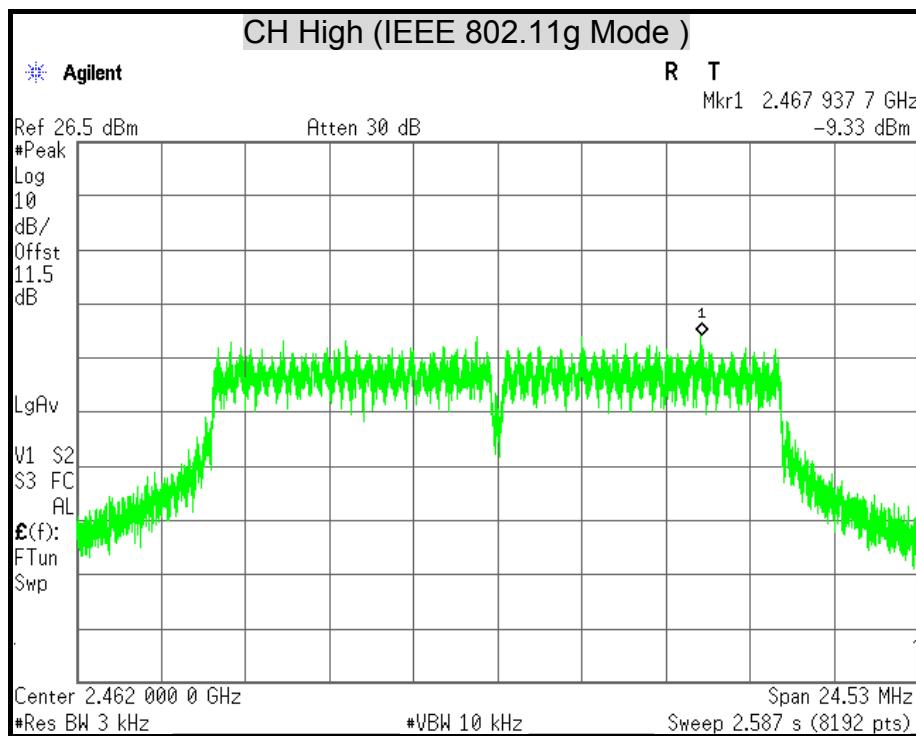
| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Minimum Limit (dBm) | Pass / Fail |
|---------|-------------------------|---------------------------------------|---------------------|-------------|
| Low | 2402 | -7.13 | 8 | PASS |
| Middle | 2440 | -7.47 | 8 | PASS |
| High | 2480 | -7.63 | 8 | PASS |

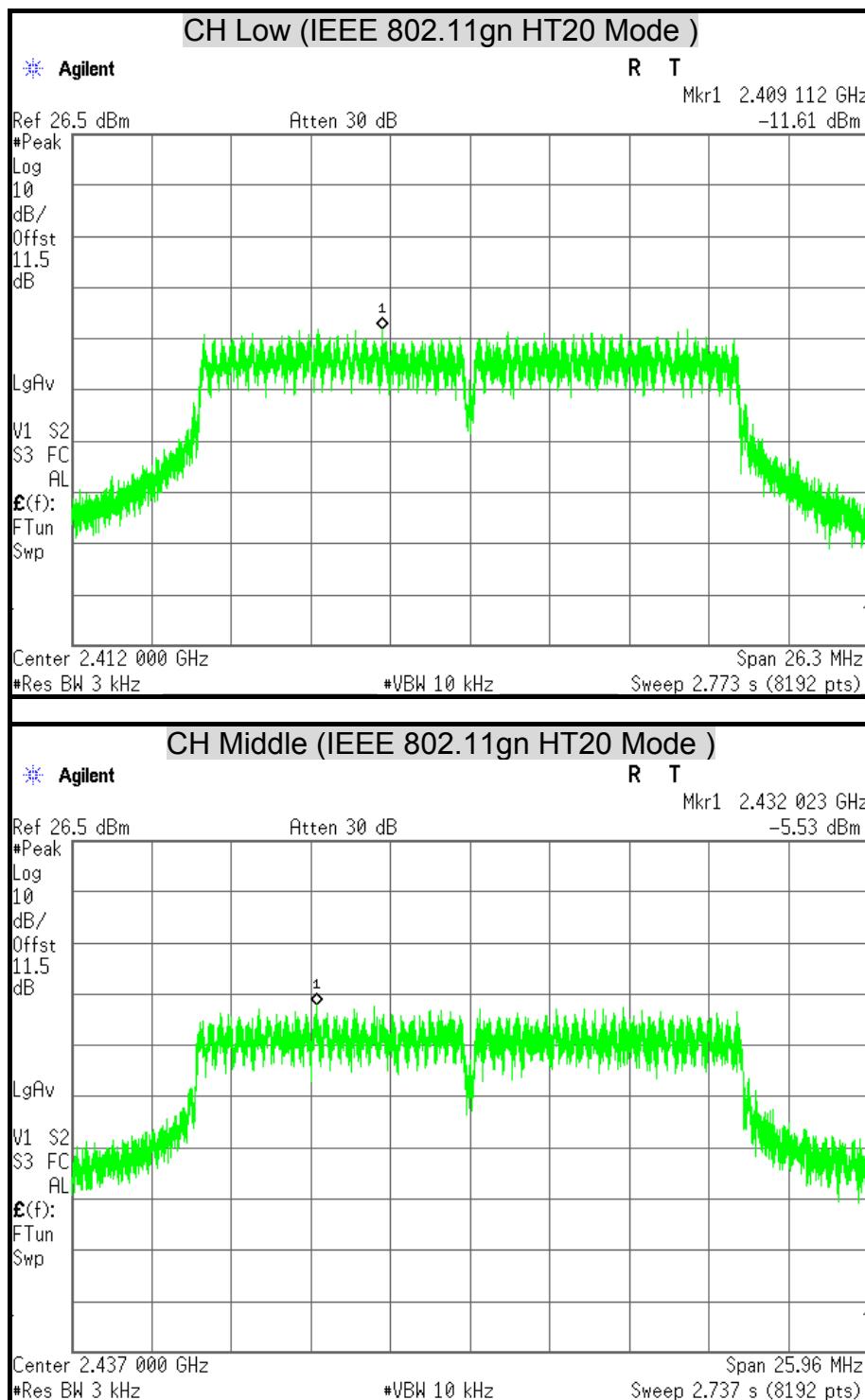
Remark: The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

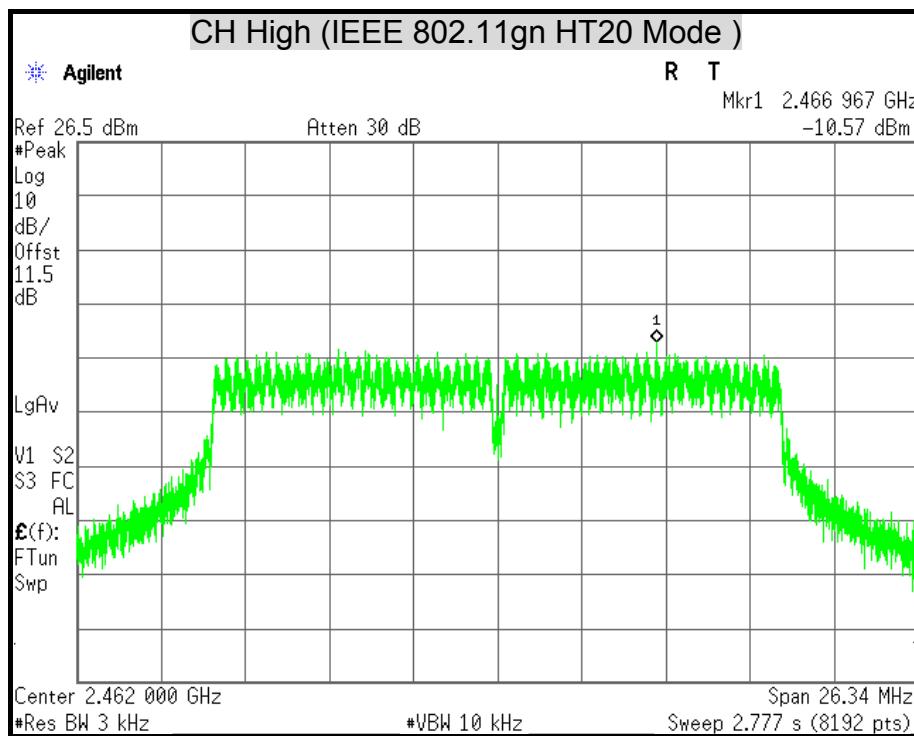
POWER SPECTRAL DENSITY

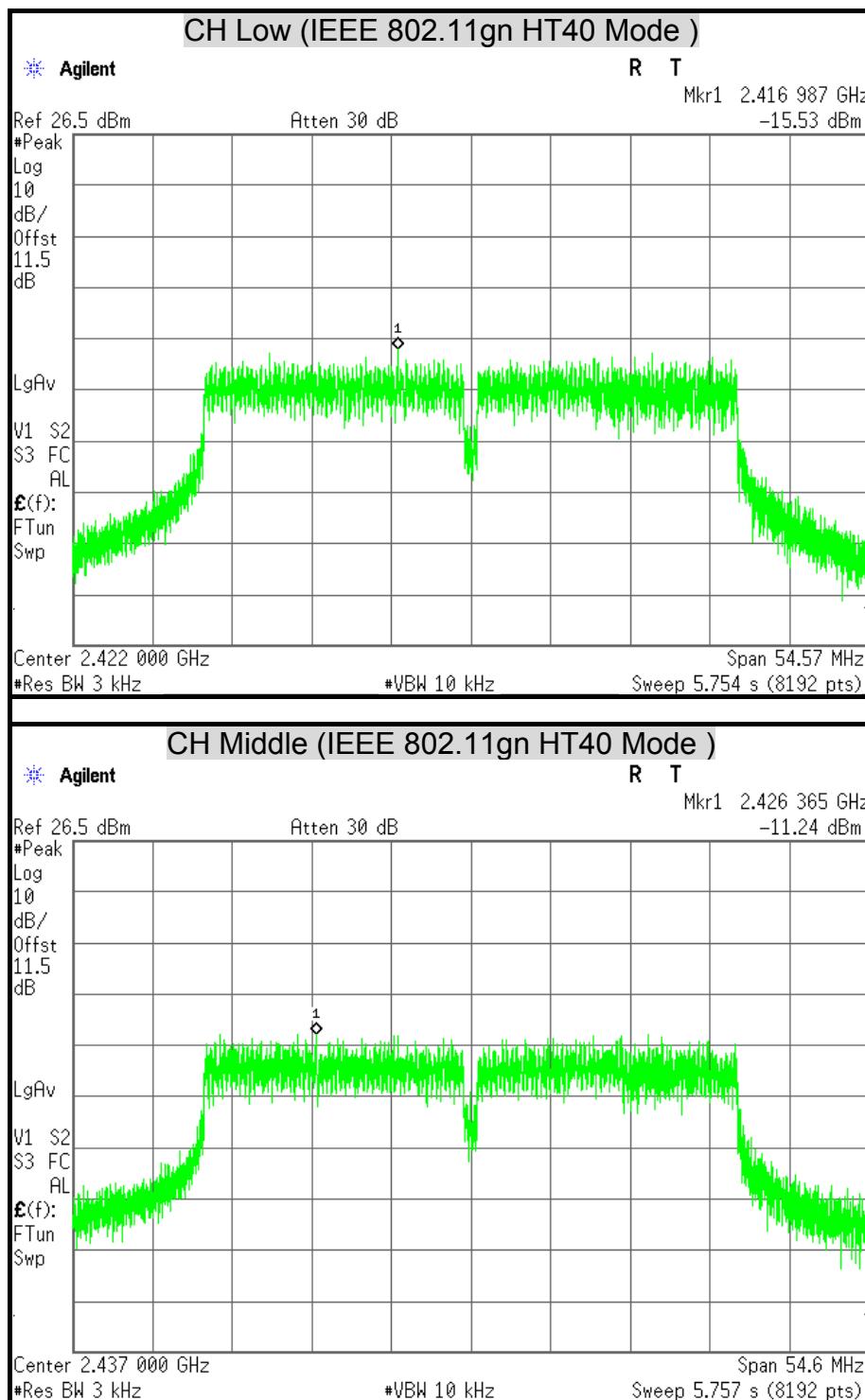


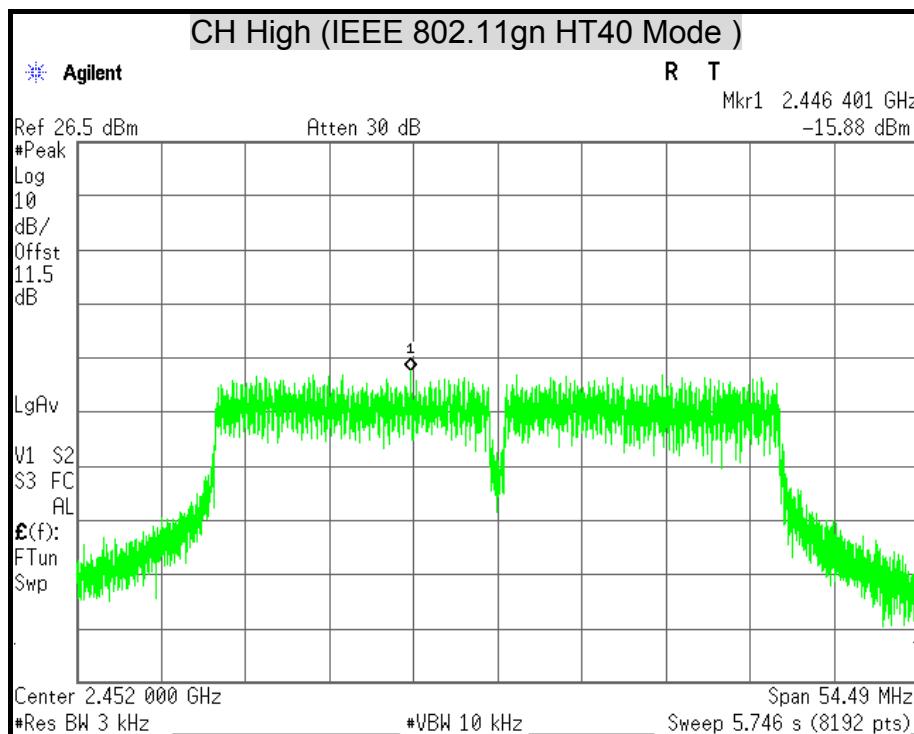


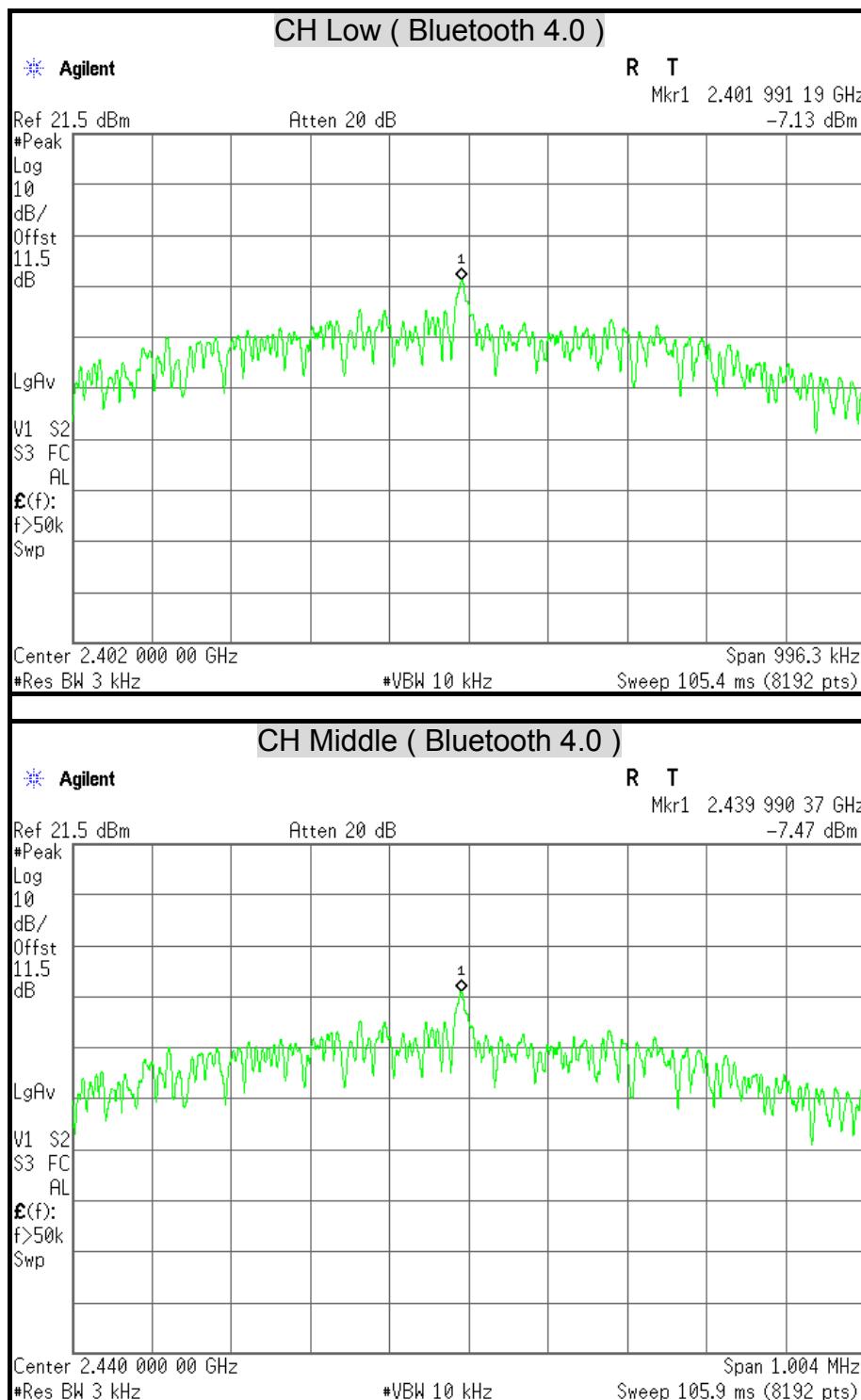


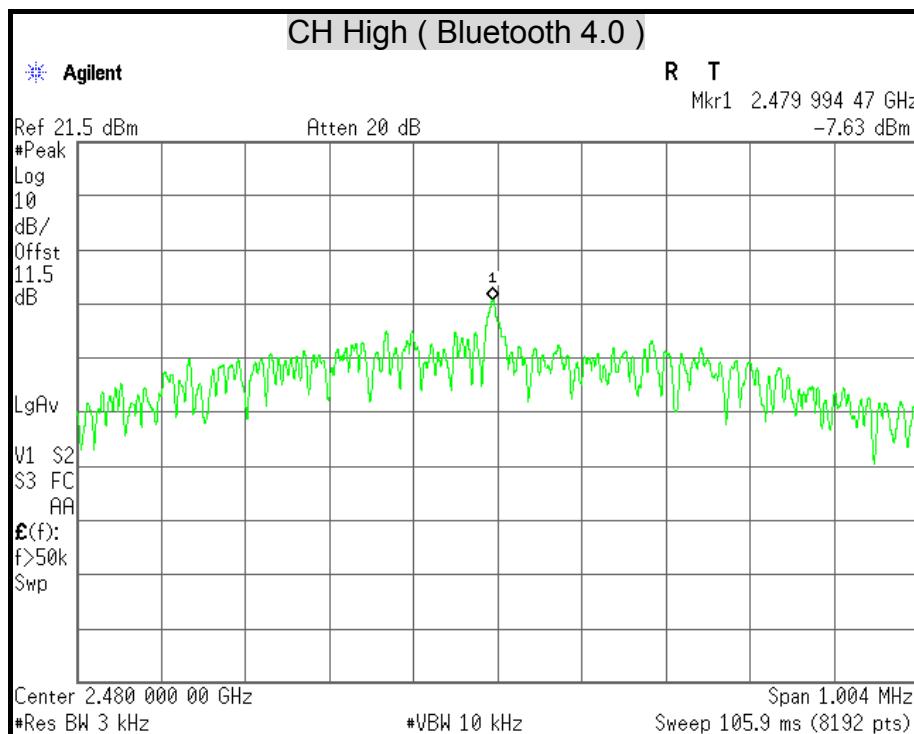












7.5 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|--------|---------------|-----------------|
| Spectrum Analyzer | Agilent | E4446A | MY43360132 | 06/10/2015 |

Remark: Each piece of equipment is scheduled for calibration once a year.

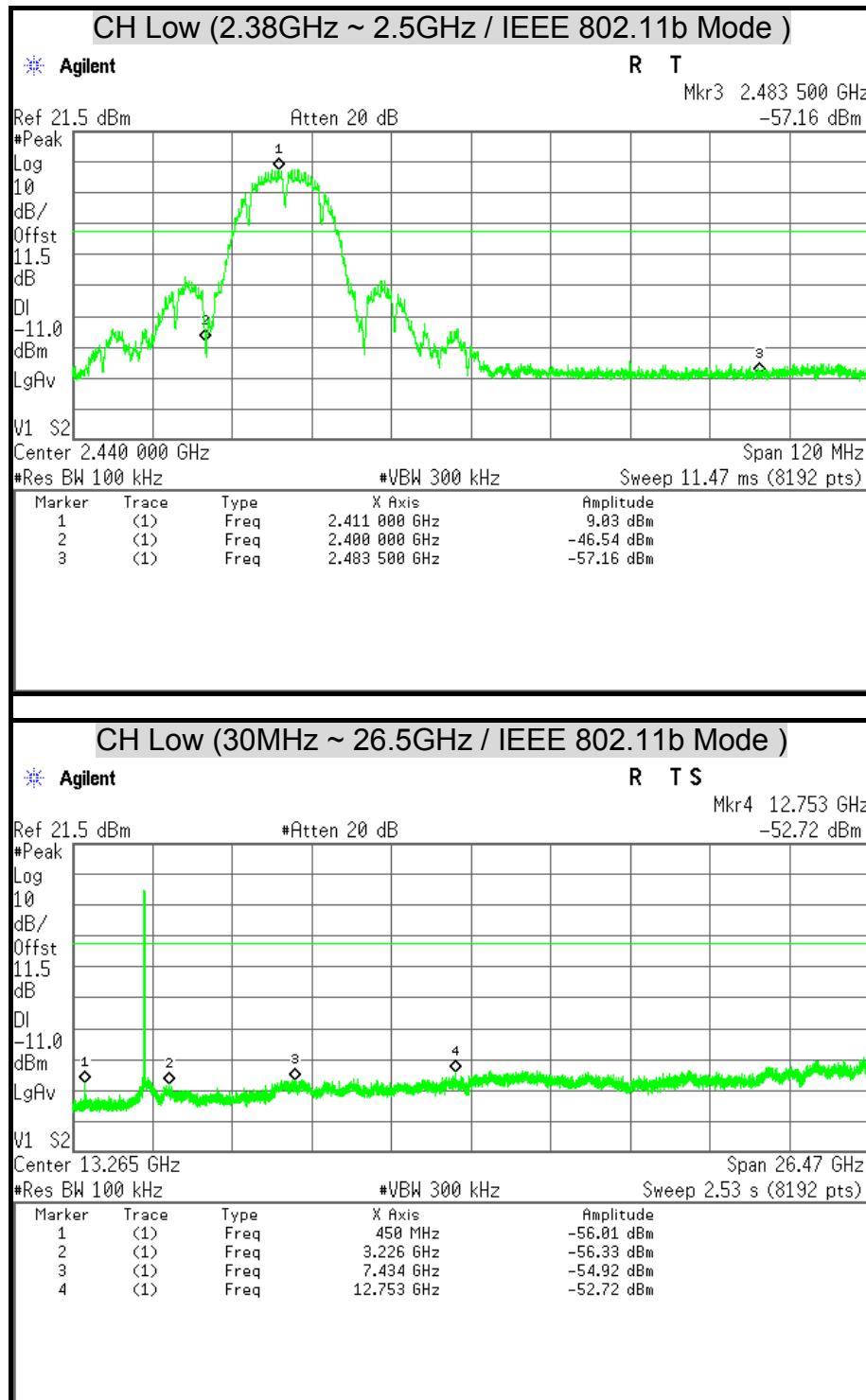
TEST SETUP

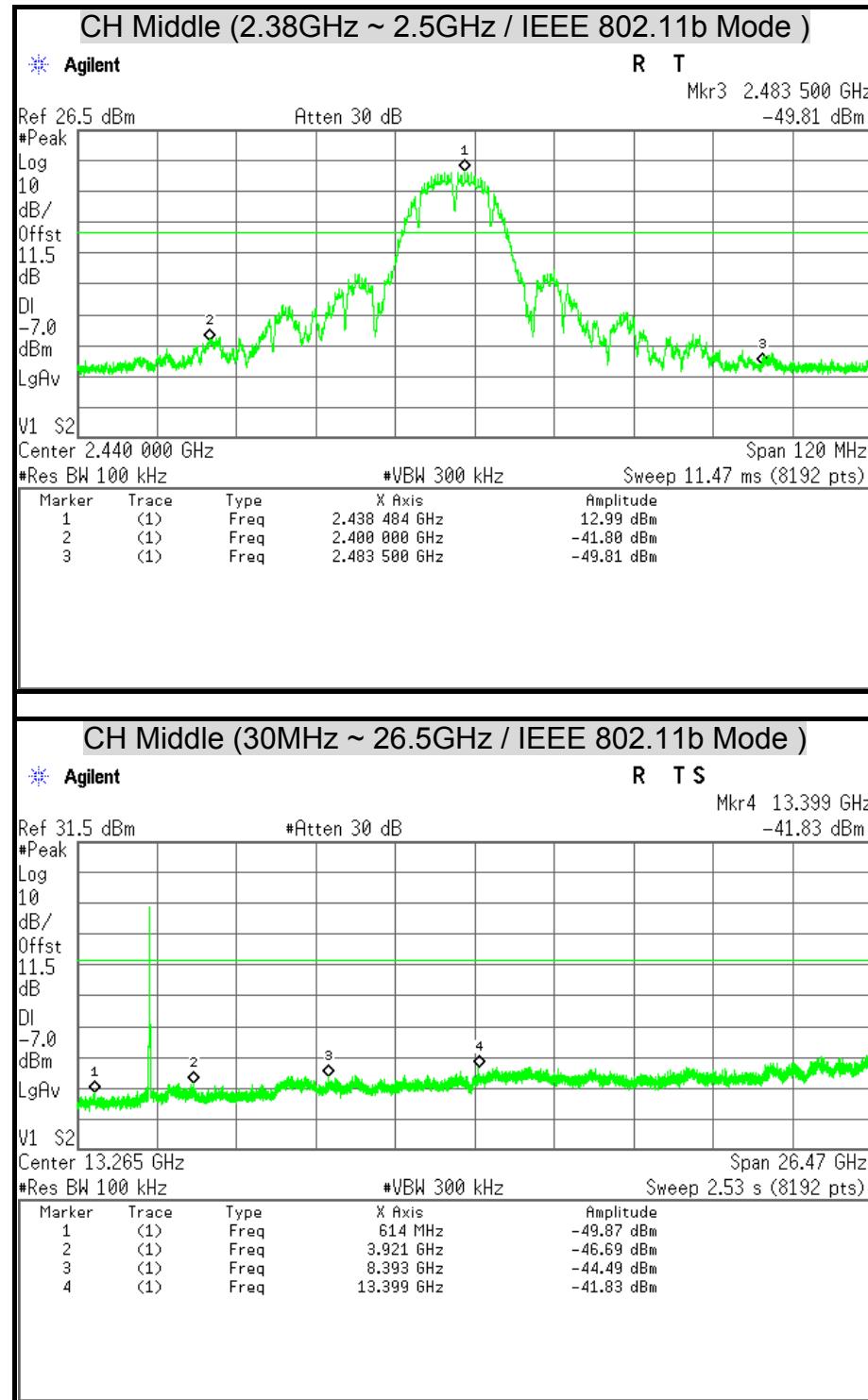


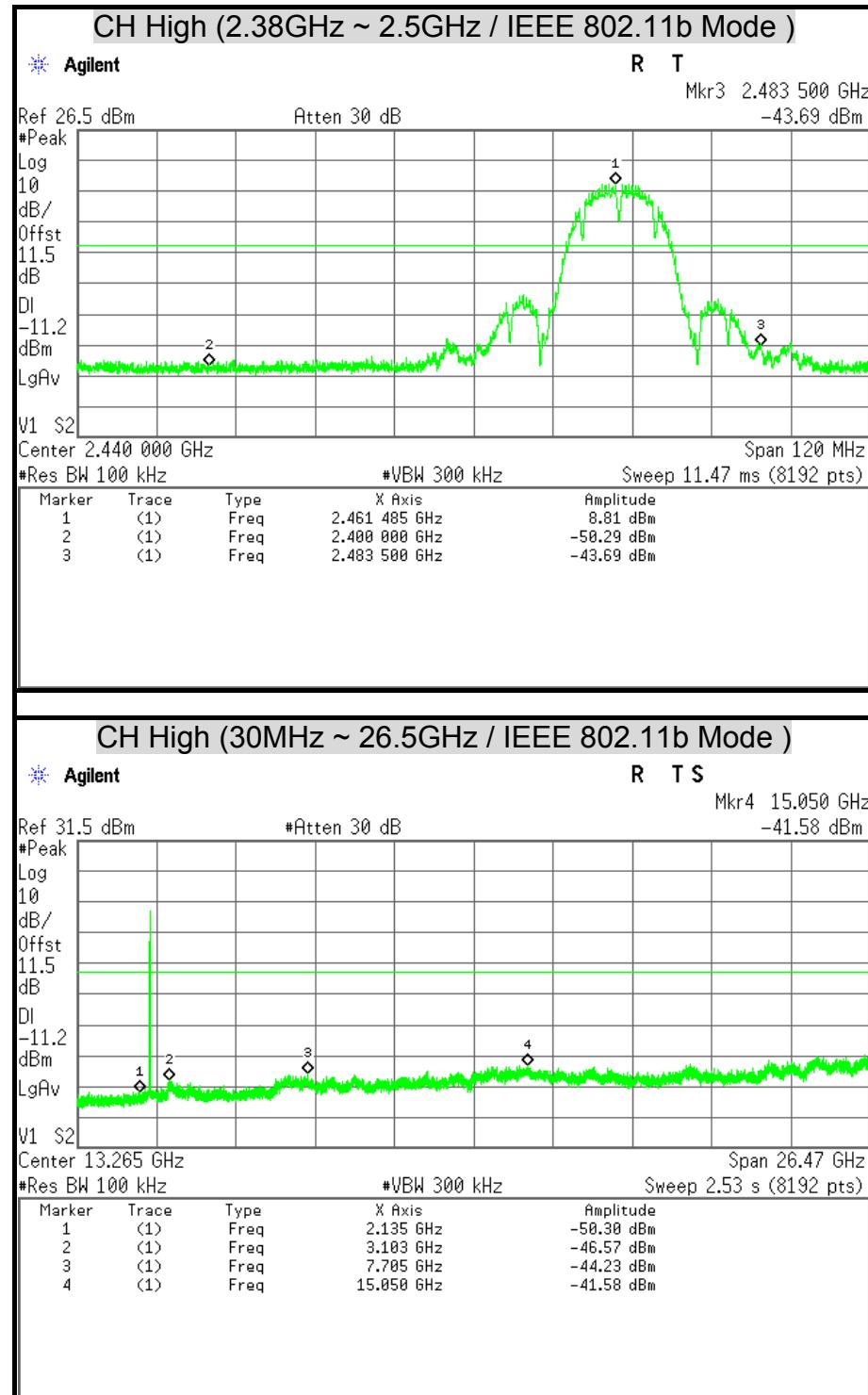
TEST PROCEDURE

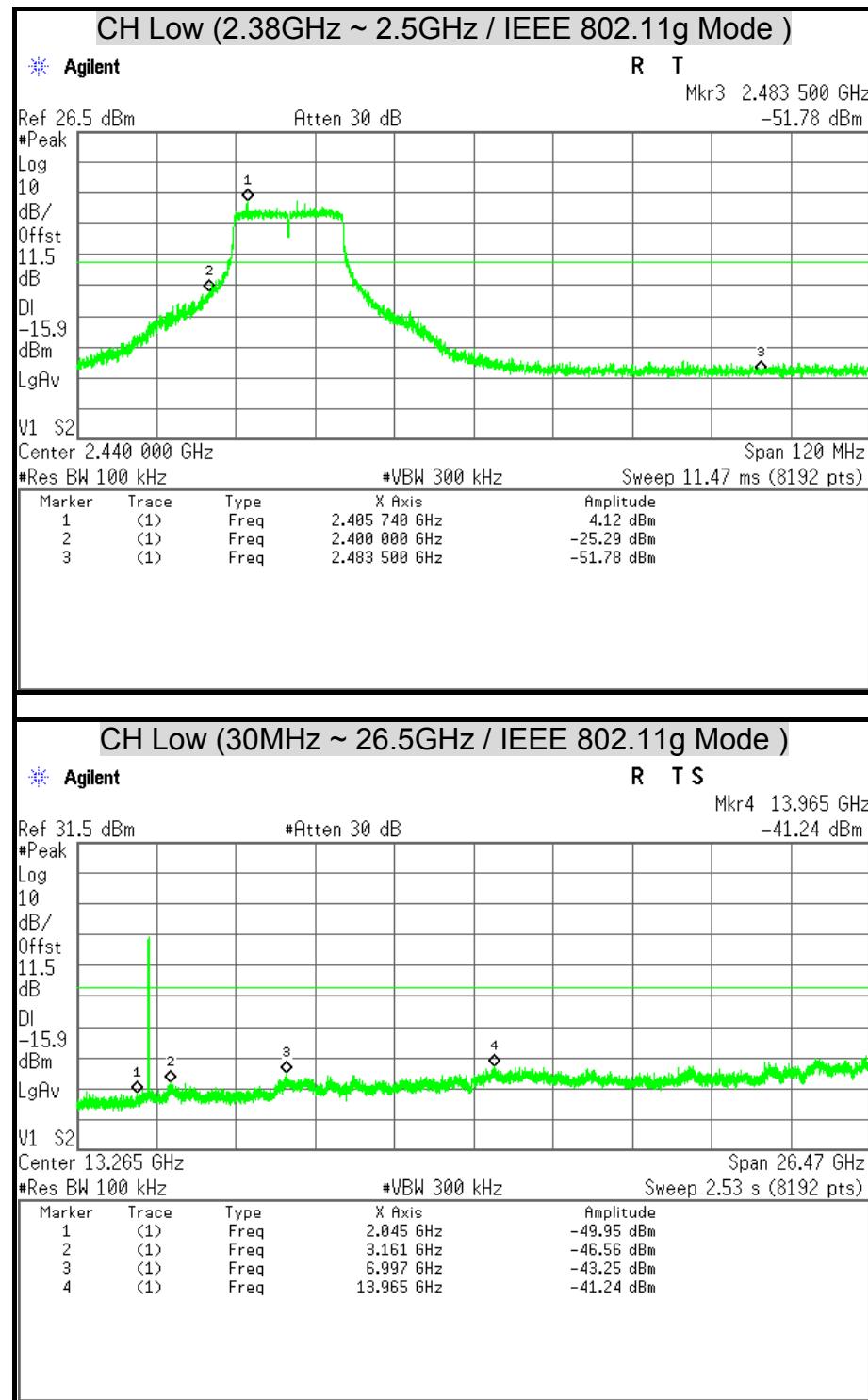
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

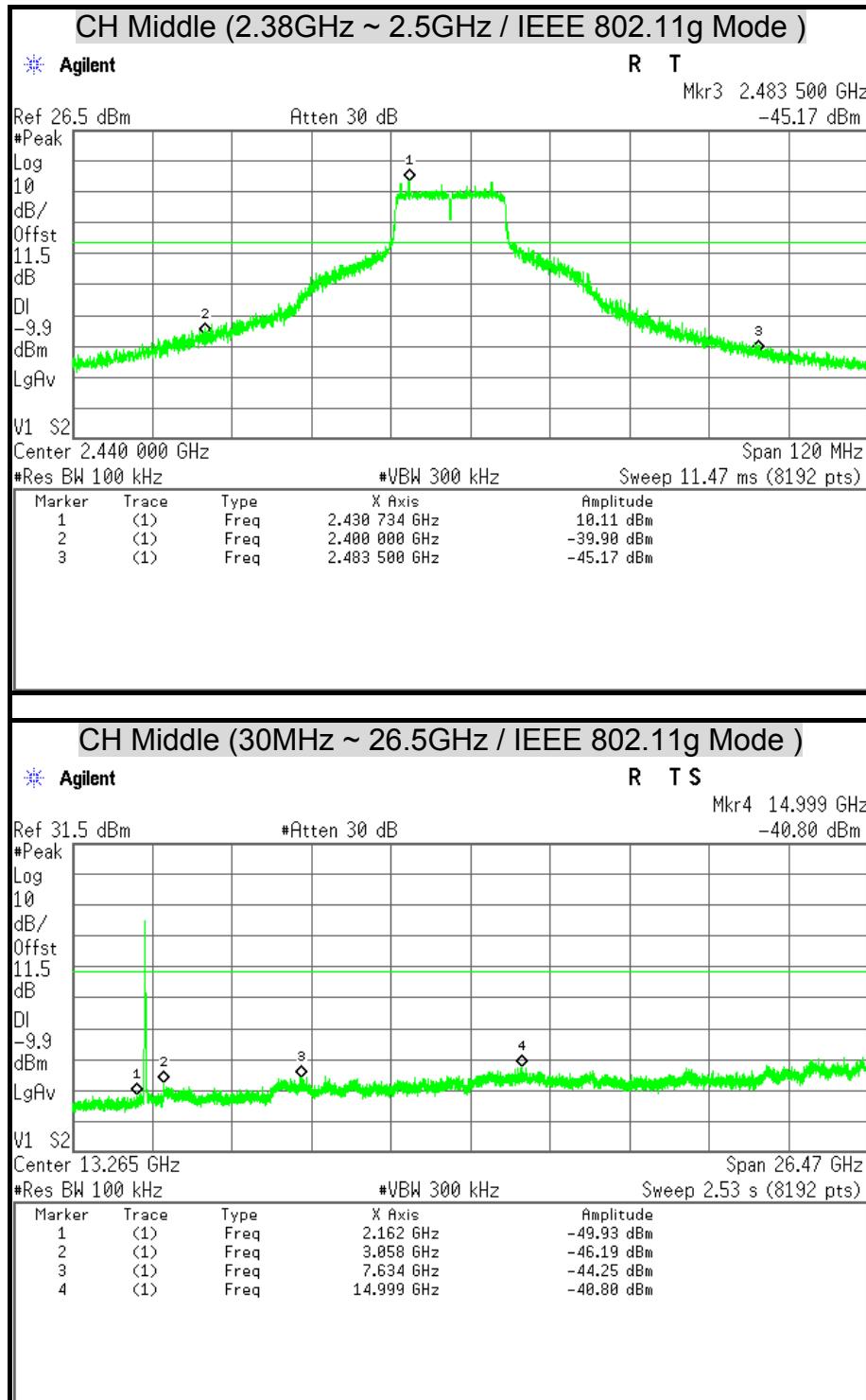
The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

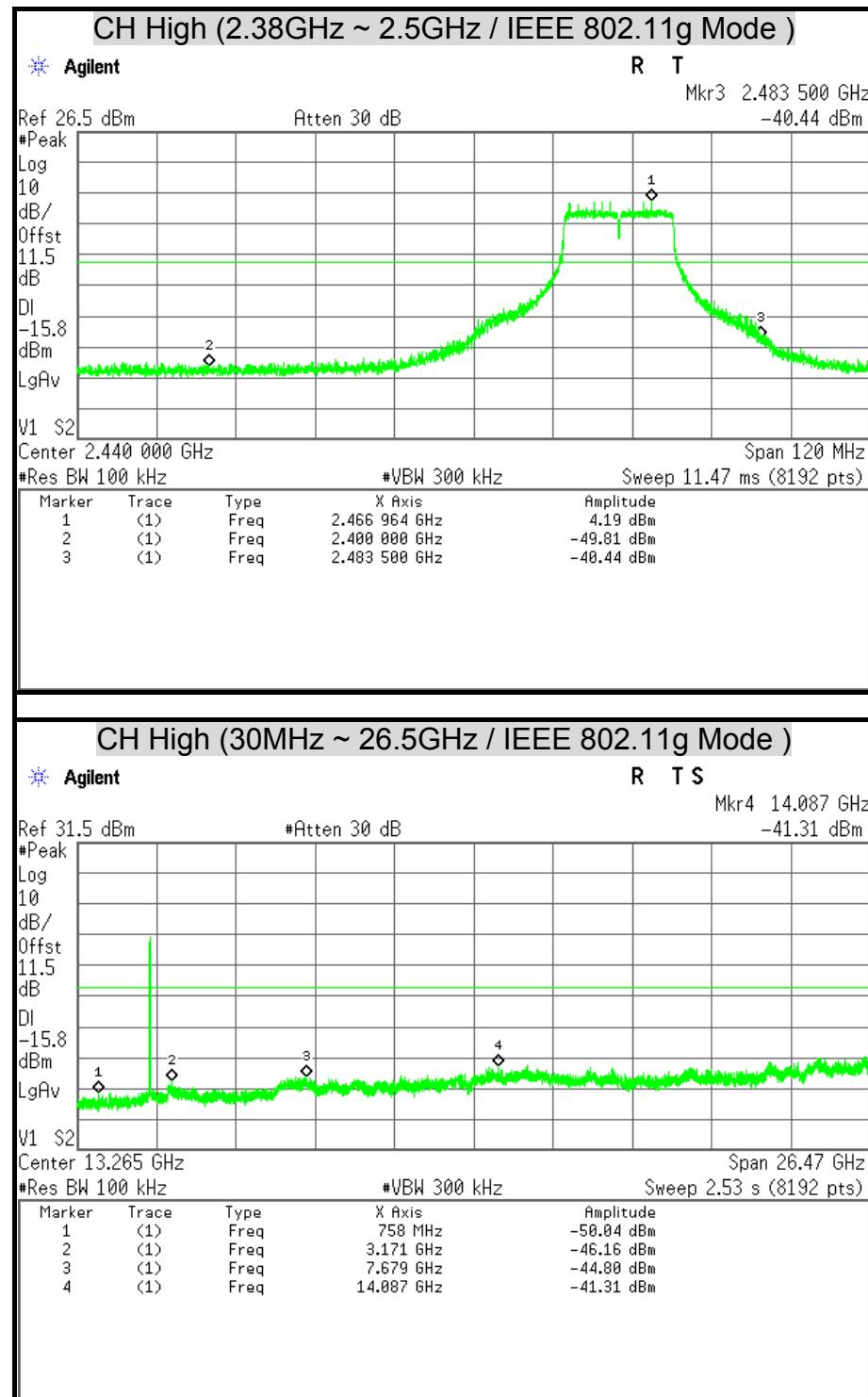
TEST RESULTS**OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT**

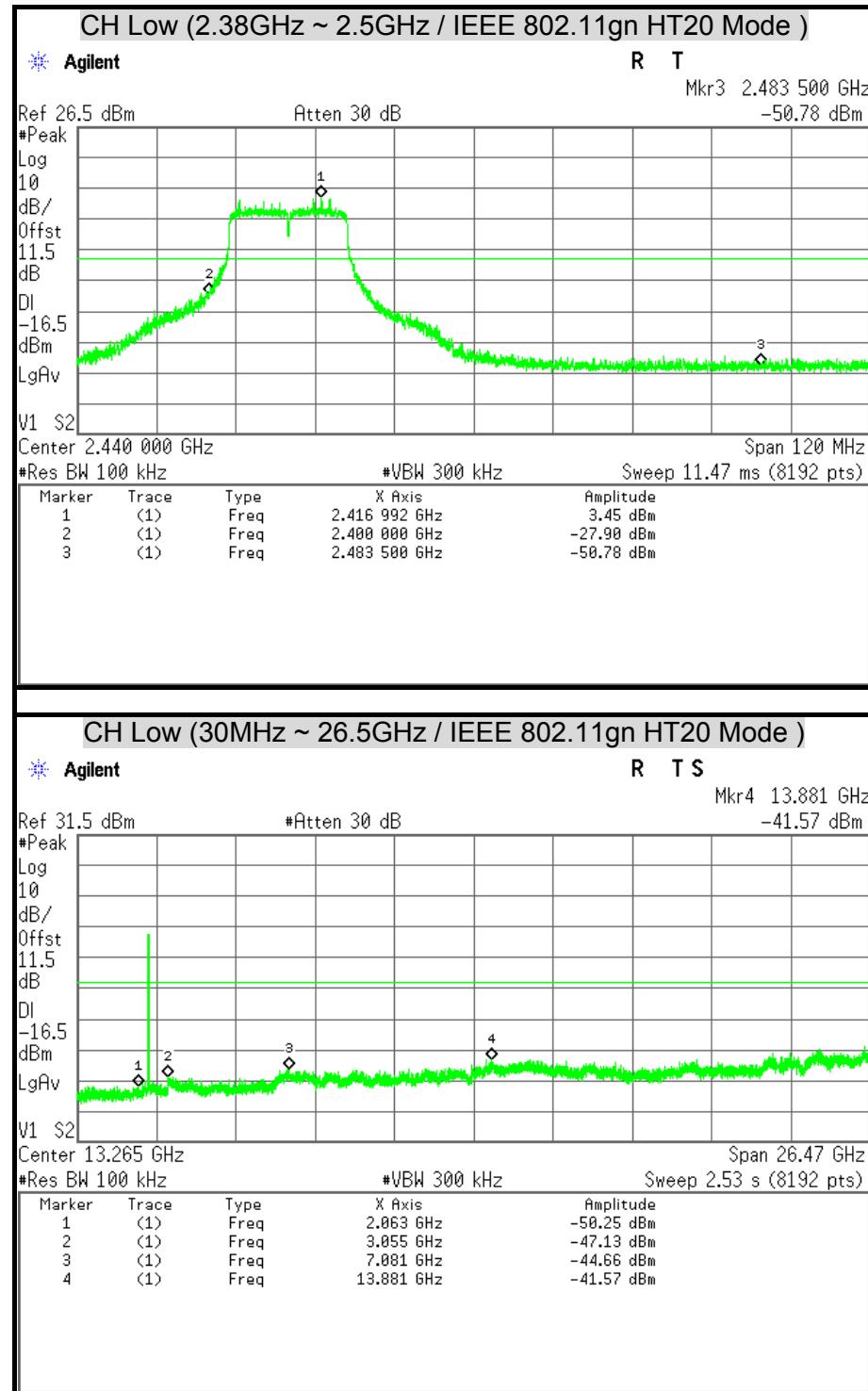


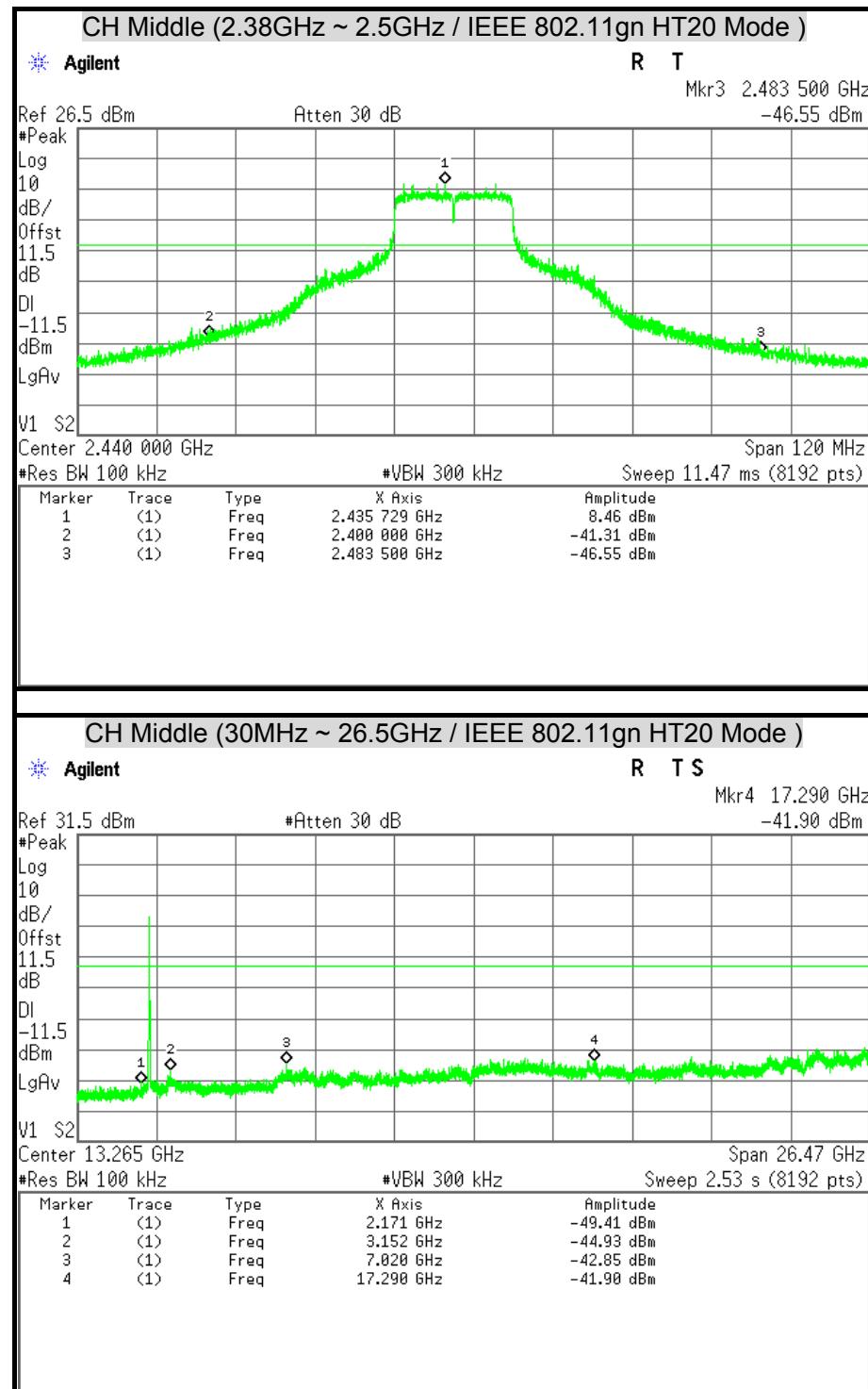


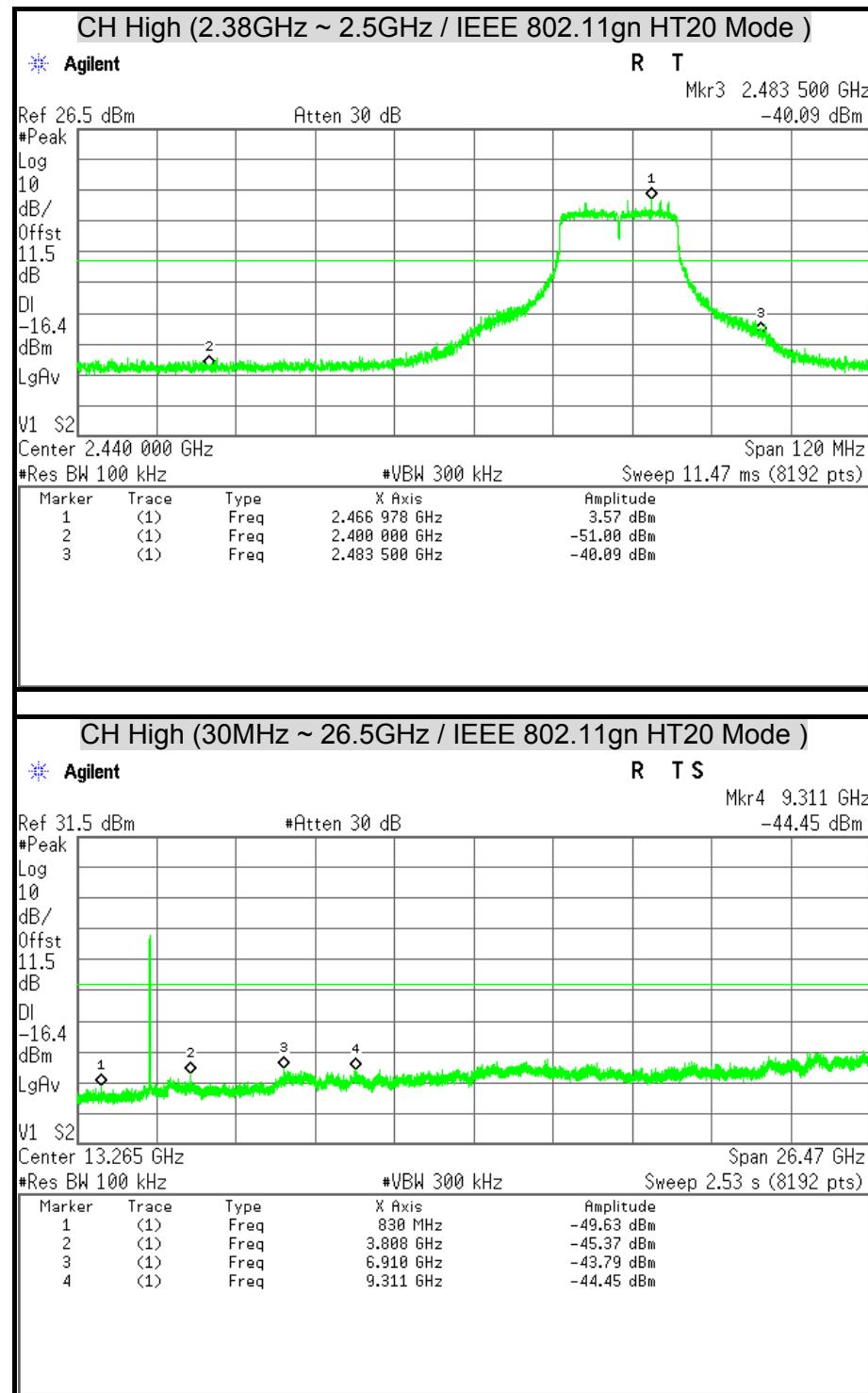


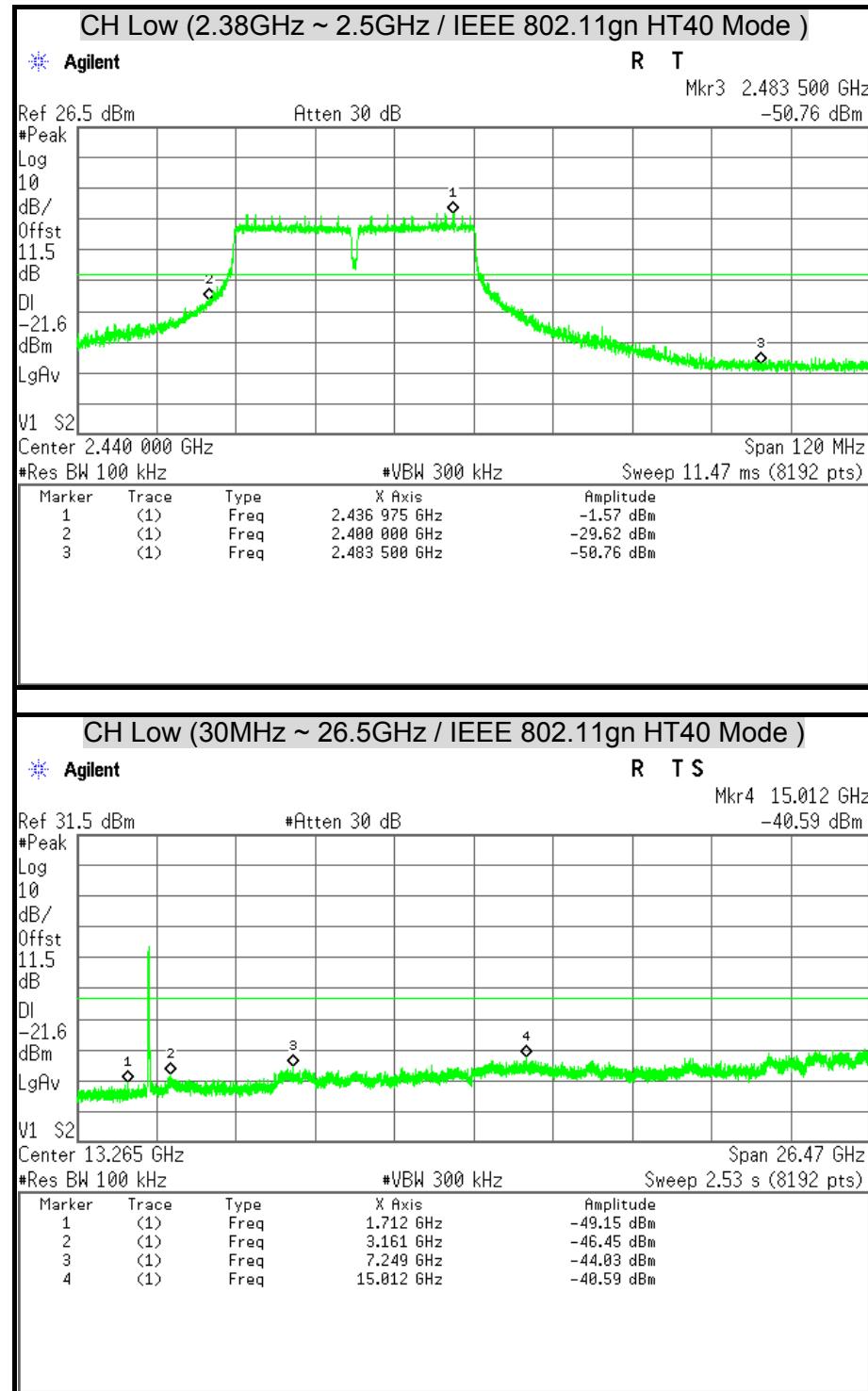


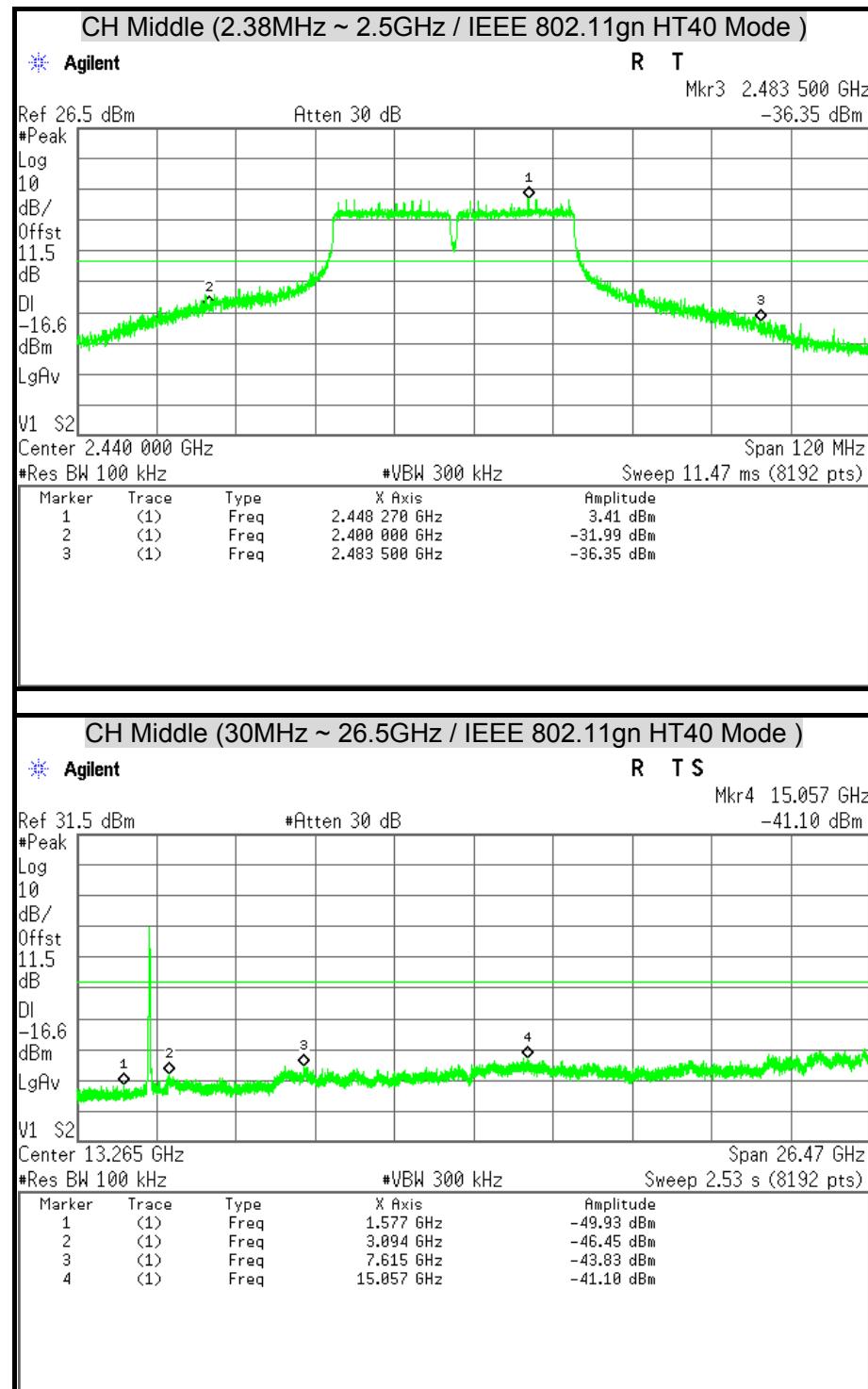


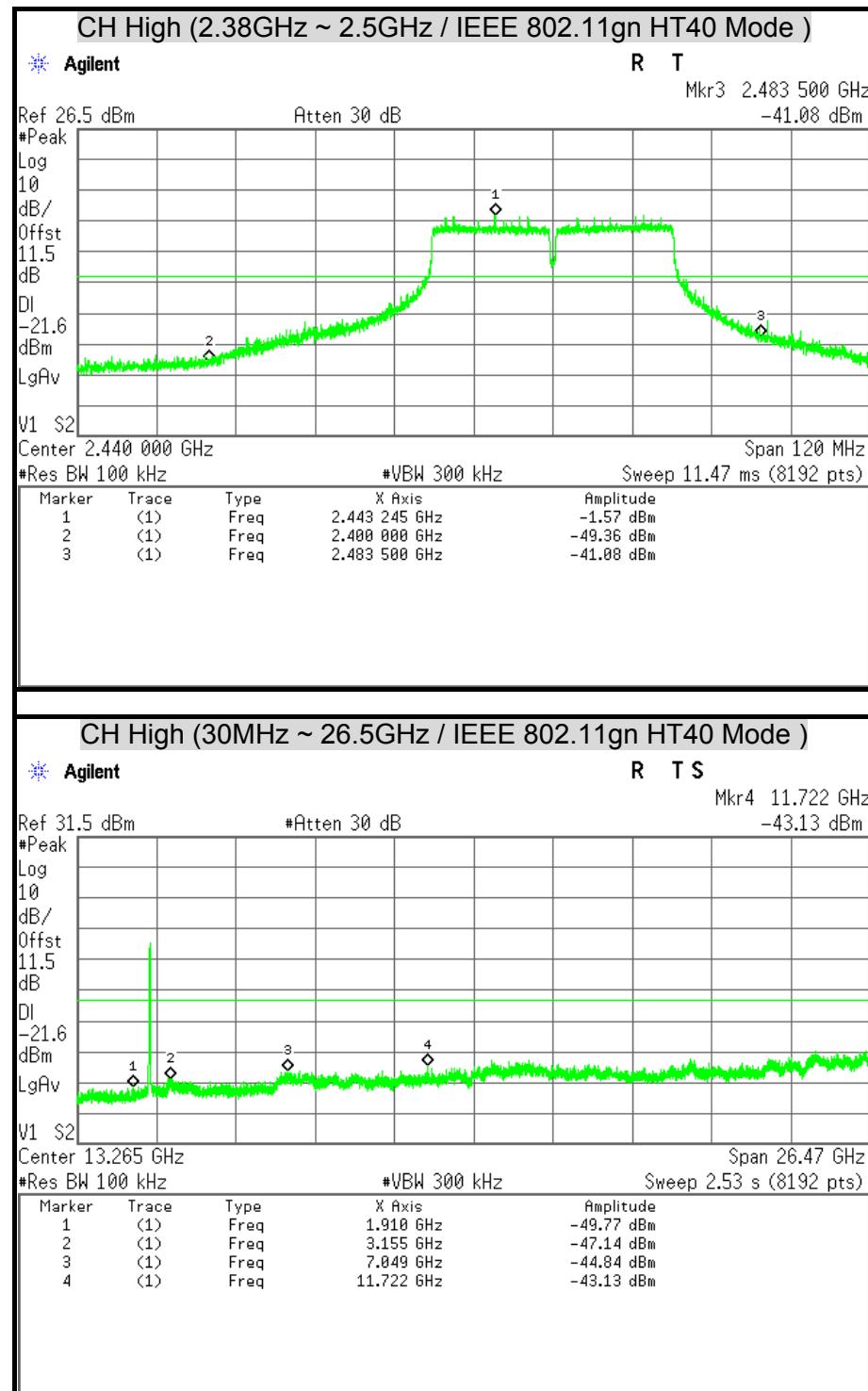


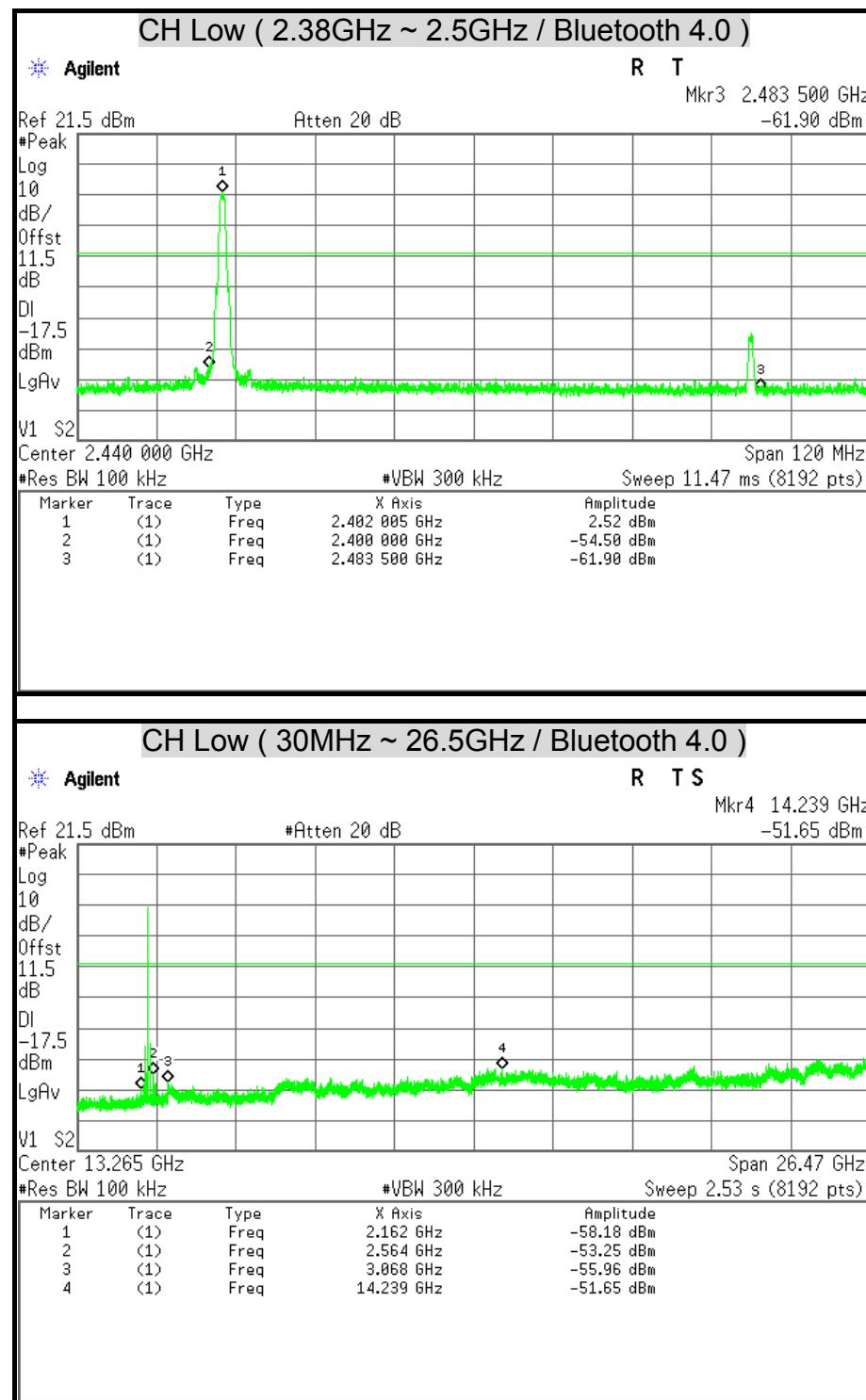


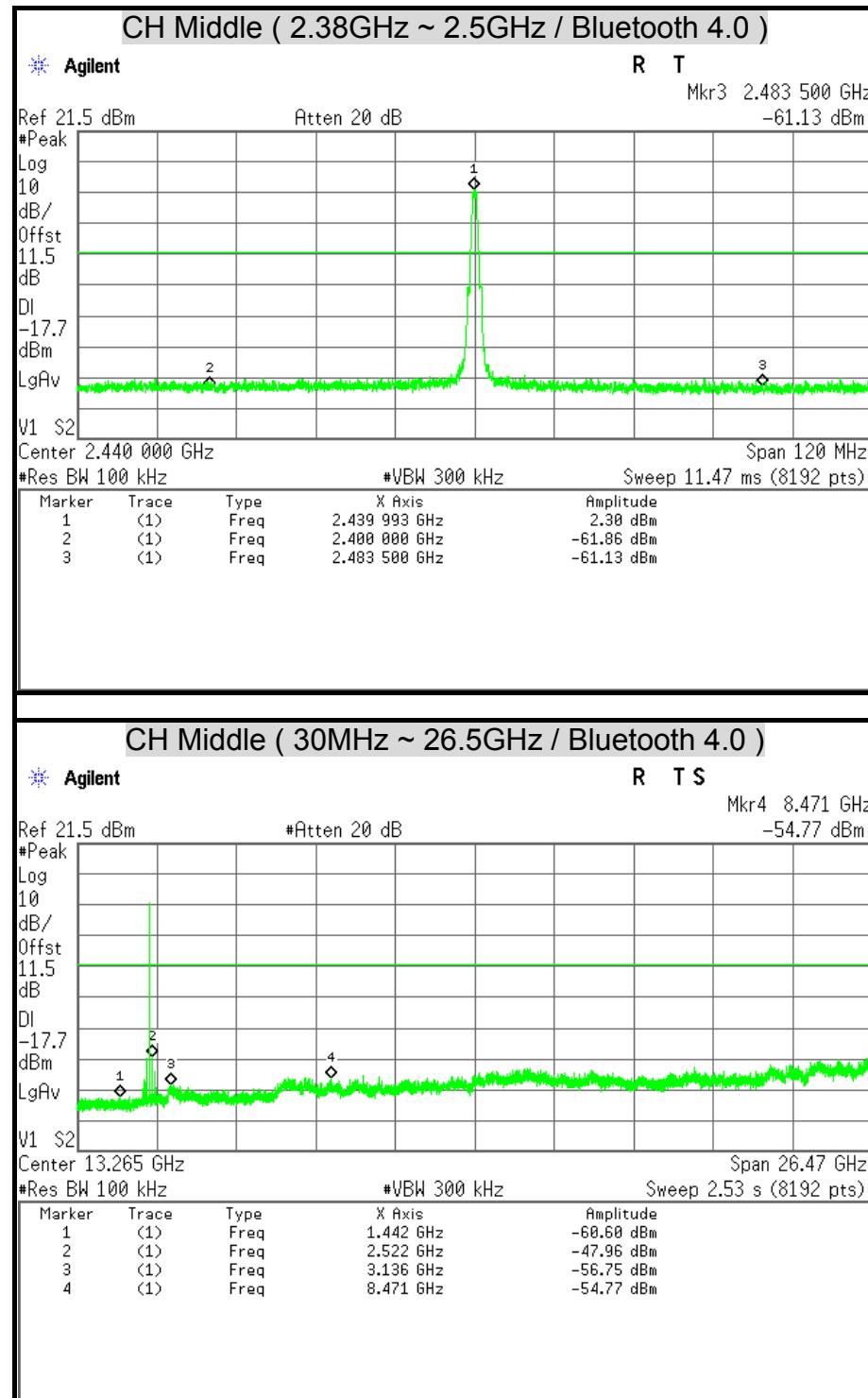


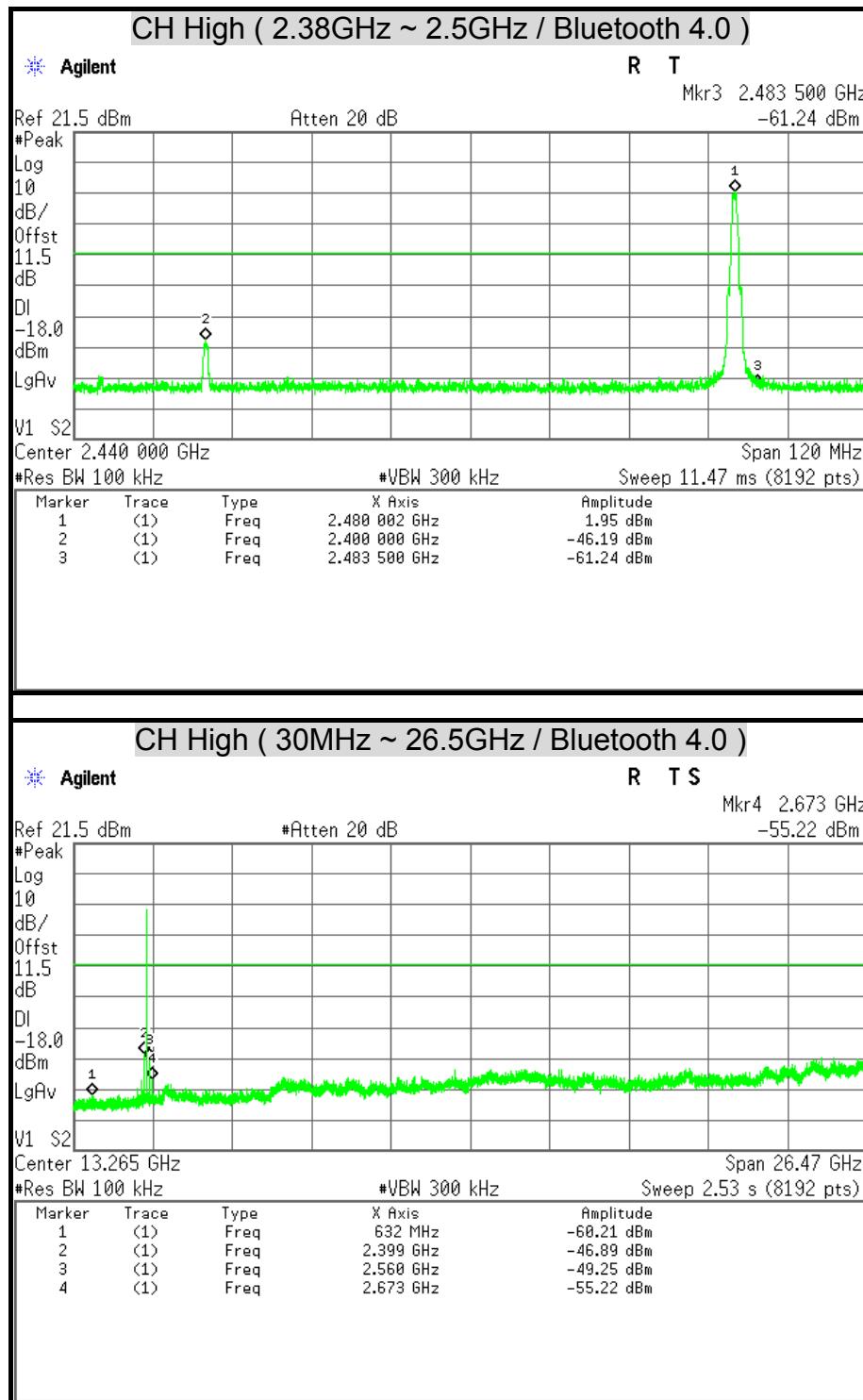












7.6 RADIATED EMISSION

LIMITS

(1) According to § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3338 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | | | |

Remark:

1. ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2. ² Above 38.6

(2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

(3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009 – 0.490 | 2400/F(KHz) | 300 |
| 0.490 – 1.705 | 24000/F(KHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 - 88 | 100 ** | 3 |
| 88 - 216 | 150 ** | 3 |
| 216 - 960 | 200 ** | 3 |
| Above 960 | 500 | 3 |

Remark: **Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

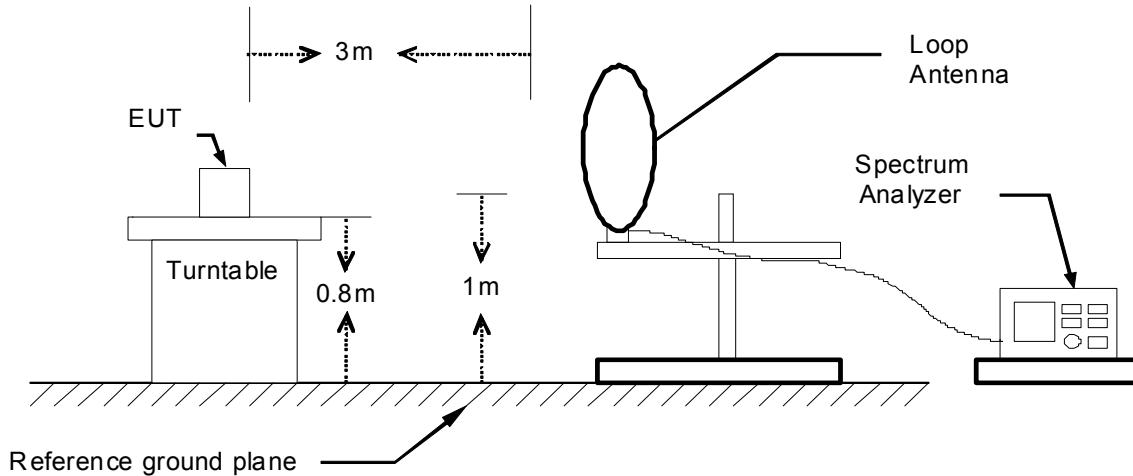
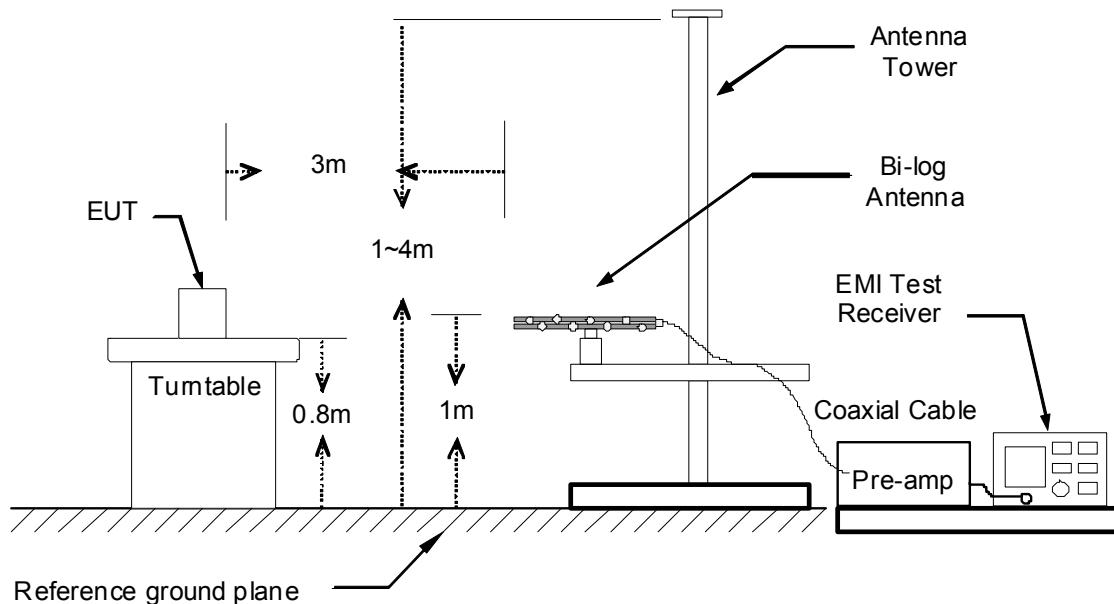
Radiated Emission / 966Chamber_B

| Name of Equipment | Manufacture | Model | Serial Number | Calibration Due |
|------------------------------|-----------------|-------------|---------------|-----------------|
| Spectrum Analyzer | Agilent | E4446A | MY46180323 | 04/15/2015 |
| EMI Test Receiver | Rohde & Schwarz | ESCS 30 | 835418/008 | 10/14/2015 |
| Bi-log Antenna | Schwarzbeck | VULB 9168 | 9168-250 | 08/21/2015 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120 D | 9120D-778 | 08/19/2015 |
| Double-Ridged Waveguide Horn | ETS-LINDGREN | 3117 | 00078733 | 12/05/2014 |
| Horn Antenna | COM-POWER | AH-840 | 03077 | 12/18/2014 |
| Pre-Amplifier | Agilent | 8447D | 2944A10052 | 07/15/2015 |
| Pre-Amplifier | Agilent | 8449B | 3008A01916 | 07/15/2015 |
| LOOP Antenna | EMCO | 6502 | 8905-2356 | 09/23/2015 |
| Notch Filters Band Reject | Micro-Tronics | BRM05702-01 | 026 | N.C.R |

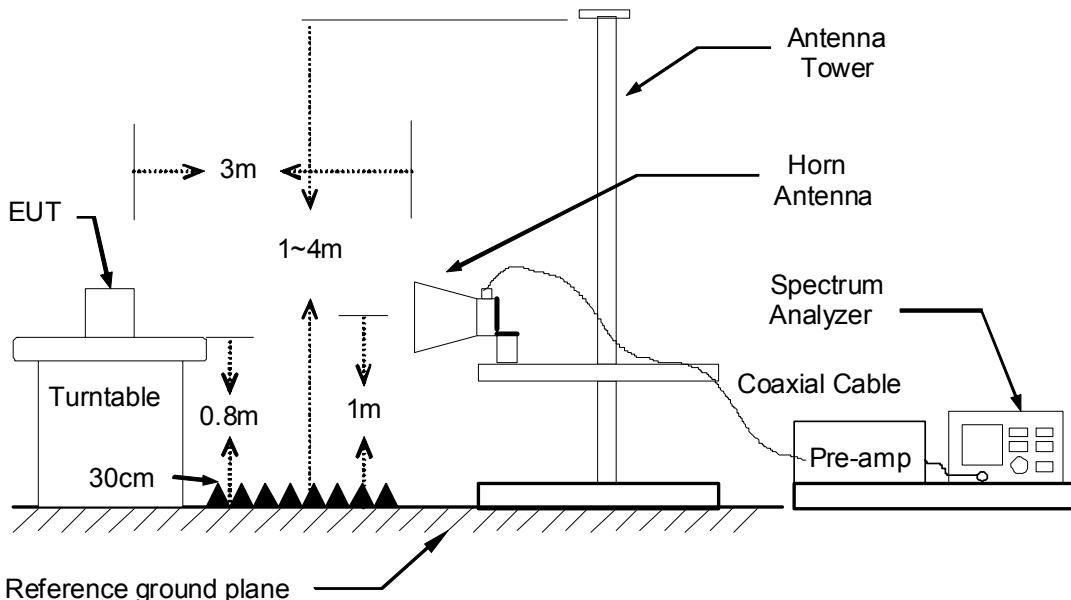
Remark: 1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R = No Calibration Request.

TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission below 1GHz.

9kHz ~ 30MHz**30MHz ~ 1GHz**

The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark :

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

TEST RESULTS**Below 1 GHz (9kHz ~ 30MHz)**

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

| | | | |
|---------------------|----------|-----------------------------|---------------|
| Product Name | Computer | Test By | Waternil Guan |
| Test Model | TREK-572 | Test Date | 2014/10/30 |
| Test Mode | TX Mode | Temp. & Humidity | 27°C, 54% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | |
|--------------------------------------|----------------------|--------------------------|-----------------------|----------------------|-------------|--------|
| Frequency (MHz) | Reading (dB μ V) | Correction Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Remark |
| 70.74 | 42.98 | -16.53 | 26.45 | 40.00 | -13.55 | Peak |
| 106.63 | 43.67 | -17.79 | 25.88 | 43.50 | -17.62 | Peak |
| 159.01 | 37.00 | -13.43 | 23.58 | 43.50 | -19.92 | Peak |
| 250.19 | 39.97 | -13.71 | 26.26 | 46.00 | -19.74 | Peak |
| 389.87 | 39.55 | -10.12 | 29.43 | 46.00 | -16.57 | Peak |
| 474.26 | 37.36 | -8.53 | 28.83 | 46.00 | -17.17 | Peak |
| 685.72 | 33.90 | -5.02 | 28.88 | 46.00 | -17.12 | Peak |
| 833.16 | 38.06 | -2.45 | 35.62 | 46.00 | -10.38 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | |
|------------------------------------|----------------------|--------------------------|-----------------------|----------------------|-------------|--------|
| Frequency (MHz) | Reading (dB μ V) | Correction Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Remark |
| 34.85 | 51.66 | -15.08 | 36.58 | 40.00 | -3.42 | Peak |
| 73.65 | 49.47 | -17.20 | 32.27 | 40.00 | -7.73 | Peak |
| 106.63 | 44.14 | -17.79 | 26.35 | 43.50 | -17.15 | Peak |
| 151.25 | 32.96 | -13.63 | 19.32 | 43.50 | -24.18 | Peak |
| 250.19 | 36.67 | -13.71 | 22.96 | 46.00 | -23.04 | Peak |
| 277.35 | 36.14 | -12.47 | 23.68 | 46.00 | -22.32 | Peak |
| 396.66 | 35.58 | -9.99 | 25.59 | 46.00 | -20.41 | Peak |
| 837.04 | 33.99 | -2.37 | 31.62 | 46.00 | -14.38 | Peak |

Remark:

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)
4. Result (dB μ V/m) = Reading (dB μ V) + Correction Factor (dB/m)
5. Margin (dB) = Remark result (dB μ V/m) - Quasi-peak limit (dB μ V/m).

Above 1 GHz

| | | | |
|---------------------|--------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11b TX / CH Low | Temp. & Humidity | 25°C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1782.00 | 48.43 | --- | -0.24 | 48.20 | --- | 74.00 | 54.00 | -5.80 | Peak |
| 2330.00 | 49.42 | --- | 2.47 | 51.90 | --- | 74.00 | 54.00 | -2.10 | Peak |
| 2484.00 | 48.73 | --- | 2.78 | 51.51 | --- | 74.00 | 54.00 | -2.49 | Peak |
| 4875.00 | 39.31 | --- | 8.18 | 47.50 | --- | 74.00 | 54.00 | -6.50 | Peak |
| 6315.00 | 38.13 | --- | 11.73 | 49.86 | --- | 74.00 | 54.00 | -4.14 | Peak |
| 7260.00 | 37.37 | --- | 12.94 | 50.30 | --- | 74.00 | 54.00 | -3.70 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1852.00 | 48.35 | --- | 0.42 | 48.77 | --- | 74.00 | 54.00 | -5.23 | Peak |
| 2186.00 | 47.39 | --- | 2.19 | 49.58 | --- | 74.00 | 54.00 | -4.42 | Peak |
| 2490.00 | 47.77 | --- | 2.79 | 50.56 | --- | 74.00 | 54.00 | -3.44 | Peak |
| 4830.00 | 38.29 | --- | 8.09 | 46.38 | --- | 74.00 | 54.00 | -7.62 | Peak |
| 5250.00 | 40.55 | --- | 8.87 | 49.42 | --- | 74.00 | 54.00 | -4.58 | Peak |
| 6270.00 | 38.56 | --- | 11.59 | 50.15 | --- | 74.00 | 54.00 | -3.85 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|-----------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11b TX / CH Middle | Temp. & Humidity | 25 °C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1850.00 | 48.21 | --- | 0.40 | 48.61 | --- | 74.00 | 54.00 | -5.39 | Peak |
| 2390.00 | 49.09 | --- | 2.59 | 51.69 | --- | 74.00 | 54.00 | -2.31 | Peak |
| 2484.00 | 50.01 | --- | 2.78 | 52.79 | --- | 74.00 | 54.00 | -1.21 | Peak |
| 4875.00 | 39.79 | --- | 8.18 | 47.98 | --- | 74.00 | 54.00 | -6.02 | Peak |
| 5775.00 | 38.83 | --- | 10.13 | 48.96 | --- | 74.00 | 54.00 | -5.04 | Peak |
| 6420.00 | 38.37 | --- | 12.03 | 50.41 | --- | 74.00 | 54.00 | -3.59 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1976.00 | 47.95 | --- | 1.59 | 49.55 | --- | 74.00 | 54.00 | -4.45 | Peak |
| 2390.00 | 46.52 | --- | 2.59 | 49.11 | --- | 74.00 | 54.00 | -4.89 | Peak |
| 2484.00 | 50.44 | --- | 2.78 | 53.22 | --- | 74.00 | 54.00 | -0.78 | Peak |
| 3915.00 | 41.74 | --- | 5.63 | 47.36 | --- | 74.00 | 54.00 | -6.64 | Peak |
| 4920.00 | 38.51 | --- | 8.28 | 46.78 | --- | 74.00 | 54.00 | -7.22 | Peak |
| 5475.00 | 38.83 | --- | 9.27 | 48.10 | --- | 74.00 | 54.00 | -5.90 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|---------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11b TX / CH High | Temp. & Humidity | 25°C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1314.00 | 49.69 | --- | -2.89 | 46.80 | --- | 74.00 | 54.00 | -7.20 | Peak |
| 1976.00 | 49.13 | --- | 1.59 | 50.73 | --- | 74.00 | 54.00 | -3.27 | Peak |
| 2334.00 | 48.61 | --- | 2.48 | 51.09 | --- | 74.00 | 54.00 | -2.91 | Peak |
| 4860.00 | 39.14 | --- | 8.15 | 47.29 | --- | 74.00 | 54.00 | -6.71 | Peak |
| 6270.00 | 38.72 | --- | 11.59 | 50.31 | --- | 74.00 | 54.00 | -3.69 | Peak |
| 7305.00 | 38.94 | --- | 13.08 | 52.01 | --- | 74.00 | 54.00 | -1.99 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1858.00 | 47.82 | --- | 0.48 | 48.30 | --- | 74.00 | 54.00 | -5.70 | Peak |
| 2010.00 | 49.08 | --- | 1.84 | 50.92 | --- | 74.00 | 54.00 | -3.08 | Peak |
| 2370.00 | 47.58 | --- | 2.55 | 50.13 | --- | 74.00 | 54.00 | -3.87 | Peak |
| 3225.00 | 41.68 | --- | 4.26 | 45.94 | --- | 74.00 | 54.00 | -8.06 | Peak |
| 4830.00 | 39.51 | --- | 8.09 | 47.60 | --- | 74.00 | 54.00 | -6.40 | Peak |
| 6360.00 | 38.87 | --- | 11.86 | 50.73 | --- | 74.00 | 54.00 | -3.27 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|--------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11g TX / CH Low | Temp. & Humidity | 25°C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1962.00 | 48.46 | --- | 1.46 | 49.92 | --- | 74.00 | 54.00 | -4.08 | Peak |
| 2230.00 | 48.08 | --- | 2.28 | 50.35 | --- | 74.00 | 54.00 | -3.65 | Peak |
| 2498.00 | 48.27 | --- | 2.81 | 51.08 | --- | 74.00 | 54.00 | -2.92 | Peak |
| 3840.00 | 41.20 | --- | 5.42 | 46.62 | --- | 74.00 | 54.00 | -7.38 | Peak |
| 4755.00 | 39.70 | --- | 7.94 | 47.63 | --- | 74.00 | 54.00 | -6.37 | Peak |
| 6435.00 | 37.89 | --- | 12.08 | 49.97 | --- | 74.00 | 54.00 | -4.03 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1822.00 | 49.11 | --- | 0.14 | 49.25 | --- | 74.00 | 54.00 | -4.75 | Peak |
| 2056.00 | 48.65 | --- | 1.93 | 50.58 | --- | 74.00 | 54.00 | -3.42 | Peak |
| 2496.00 | 47.35 | --- | 2.80 | 50.15 | --- | 74.00 | 54.00 | -3.85 | Peak |
| 4815.00 | 39.13 | --- | 8.06 | 47.19 | --- | 74.00 | 54.00 | -6.81 | Peak |
| 5160.00 | 38.54 | --- | 8.72 | 47.26 | --- | 74.00 | 54.00 | -6.74 | Peak |
| 6240.00 | 38.46 | --- | 11.51 | 49.97 | --- | 74.00 | 54.00 | -4.03 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|-----------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11g TX / CH Middle | Temp. & Humidity | 25°C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1654.00 | 49.22 | --- | -1.45 | 47.77 | --- | 74.00 | 54.00 | -6.23 | Peak |
| 2390.00 | 63.20 | 47.36 | 2.59 | 65.79 | 49.95 | 74.00 | 54.00 | -4.05 | AVG |
| 2484.00 | 59.11 | 42.31 | 2.78 | 61.89 | 45.09 | 74.00 | 54.00 | -8.91 | AVG |
| 4740.00 | 39.33 | --- | 7.90 | 47.24 | --- | 74.00 | 54.00 | -6.76 | Peak |
| 5535.00 | 38.83 | --- | 9.41 | 48.24 | --- | 74.00 | 54.00 | -5.76 | Peak |
| 6420.00 | 37.96 | --- | 12.03 | 49.99 | --- | 74.00 | 54.00 | -4.01 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1630.00 | 49.17 | --- | -1.67 | 47.49 | --- | 74.00 | 54.00 | -6.51 | Peak |
| 2390.00 | 58.92 | 42.46 | 2.59 | 61.51 | 45.05 | 74.00 | 54.00 | -8.95 | AVG |
| 2484.00 | 51.06 | 40.36 | 2.78 | 53.84 | 43.14 | 74.00 | 54.00 | -10.86 | AVG |
| 3645.00 | 41.84 | --- | 4.89 | 46.73 | --- | 74.00 | 54.00 | -7.27 | Peak |
| 4860.00 | 39.18 | --- | 8.15 | 47.33 | --- | 74.00 | 54.00 | -6.67 | Peak |
| 5520.00 | 38.90 | --- | 9.37 | 48.27 | --- | 74.00 | 54.00 | -5.73 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|---------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11g TX / CH High | Temp. & Humidity | 25 °C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1788.00 | 48.63 | --- | -0.18 | 48.45 | --- | 74.00 | 54.00 | -5.55 | Peak |
| 2262.00 | 48.87 | --- | 2.34 | 51.21 | --- | 74.00 | 54.00 | -2.79 | Peak |
| 2380.00 | 48.88 | --- | 2.57 | 51.45 | --- | 74.00 | 54.00 | -2.55 | Peak |
| 4920.00 | 39.30 | --- | 8.28 | 47.57 | --- | 74.00 | 54.00 | -6.43 | Peak |
| 6510.00 | 38.34 | --- | 12.27 | 50.61 | --- | 74.00 | 54.00 | -3.39 | Peak |
| 7275.00 | 38.84 | --- | 12.98 | 51.82 | --- | 74.00 | 54.00 | -2.18 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1948.00 | 48.23 | --- | 1.33 | 49.56 | --- | 74.00 | 54.00 | -4.44 | Peak |
| 2096.00 | 48.42 | --- | 2.01 | 50.43 | --- | 74.00 | 54.00 | -3.57 | Peak |
| 2370.00 | 47.75 | --- | 2.55 | 50.31 | --- | 74.00 | 54.00 | -3.69 | Peak |
| 4215.00 | 40.63 | --- | 6.53 | 47.16 | --- | 74.00 | 54.00 | -6.84 | Peak |
| 4980.00 | 39.73 | --- | 8.40 | 48.13 | --- | 74.00 | 54.00 | -5.87 | Peak |
| 7155.00 | 39.15 | --- | 12.61 | 51.76 | --- | 74.00 | 54.00 | -2.24 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|--------------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11gn HT20 TX / CH Low | Temp. & Humidity | 25°C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1838.00 | 48.49 | --- | 0.29 | 48.79 | --- | 74.00 | 54.00 | -5.21 | Peak |
| 2040.00 | 49.05 | --- | 1.90 | 50.95 | --- | 74.00 | 54.00 | -3.05 | Peak |
| 2484.00 | 48.54 | --- | 2.78 | 51.32 | --- | 74.00 | 54.00 | -2.68 | Peak |
| 4830.00 | 38.37 | --- | 8.09 | 46.46 | --- | 74.00 | 54.00 | -7.54 | Peak |
| 5115.00 | 39.31 | --- | 8.64 | 47.95 | --- | 74.00 | 54.00 | -6.05 | Peak |
| 6690.00 | 37.73 | --- | 12.22 | 49.95 | --- | 74.00 | 54.00 | -4.05 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1962.00 | 48.10 | --- | 1.46 | 49.56 | --- | 74.00 | 54.00 | -4.44 | Peak |
| 2246.00 | 47.64 | --- | 2.31 | 49.95 | --- | 74.00 | 54.00 | -4.05 | Peak |
| 2500.00 | 47.34 | --- | 2.81 | 50.15 | --- | 74.00 | 54.00 | -3.85 | Peak |
| 4815.00 | 38.98 | --- | 8.06 | 47.04 | --- | 74.00 | 54.00 | -6.96 | Peak |
| 6210.00 | 38.12 | --- | 11.42 | 49.54 | --- | 74.00 | 54.00 | -4.46 | Peak |
| 7110.00 | 38.26 | --- | 12.47 | 50.73 | --- | 74.00 | 54.00 | -3.27 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|-----------------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11gn HT20 TX / CH Middle | Temp. & Humidity | 25°C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------------------------|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1710.00 | 49.29 | --- | -0.92 | 48.37 | --- | 74.00 | 54.00 | -5.63 | Peak |
| 2390.00 | 62.08 | 47.34 | 2.59 | 64.67 | 49.93 | 74.00 | 54.00 | -4.07 | AVG |
| 2484.00 | 60.40 | 43.38 | 2.78 | 63.18 | 46.16 | 74.00 | 54.00 | -7.84 | AVG |
| 4875.00 | 38.83 | --- | 8.18 | 47.02 | --- | 74.00 | 54.00 | -6.98 | Peak |
| 5970.00 | 37.97 | --- | 10.71 | 48.69 | --- | 74.00 | 54.00 | -5.31 | Peak |
| 6795.00 | 39.44 | --- | 12.19 | 51.63 | --- | 74.00 | 54.00 | -2.37 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|------------------------------------|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1722.00 | 49.15 | --- | -0.80 | 48.35 | --- | 74.00 | 54.00 | -5.65 | Peak |
| 2386.00 | 56.34 | 41.61 | 2.58 | 58.92 | 44.19 | 74.00 | 54.00 | -9.81 | AVG |
| 2484.00 | 50.63 | --- | 2.78 | 53.41 | --- | 74.00 | 54.00 | -0.59 | Peak |
| 4860.00 | 38.57 | --- | 8.15 | 46.72 | --- | 74.00 | 54.00 | -7.28 | Peak |
| 5970.00 | 38.20 | --- | 10.71 | 48.91 | --- | 74.00 | 54.00 | -5.09 | Peak |
| 7065.00 | 39.12 | --- | 12.33 | 51.45 | --- | 74.00 | 54.00 | -2.55 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|---------------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11gn HT20 TX / CH High | Temp. & Humidity | 25°C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------------------------|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1262.00 | 50.01 | --- | -2.89 | 47.12 | --- | 74.00 | 54.00 | -6.88 | Peak |
| 2008.00 | 47.80 | --- | 1.84 | 49.64 | --- | 74.00 | 54.00 | -4.36 | Peak |
| 2334.00 | 48.77 | --- | 2.48 | 51.25 | --- | 74.00 | 54.00 | -2.75 | Peak |
| 4890.00 | 38.26 | --- | 8.21 | 46.47 | --- | 74.00 | 54.00 | -7.53 | Peak |
| 5820.00 | 37.92 | --- | 10.26 | 48.18 | --- | 74.00 | 54.00 | -5.82 | Peak |
| 6705.00 | 38.73 | --- | 12.21 | 50.94 | --- | 74.00 | 54.00 | -3.06 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|------------------------------------|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1270.00 | 50.26 | --- | -2.89 | 47.37 | --- | 74.00 | 54.00 | -6.63 | Peak |
| 2182.00 | 48.43 | --- | 2.18 | 50.62 | --- | 74.00 | 54.00 | -3.38 | Peak |
| 2366.00 | 47.93 | --- | 2.54 | 50.47 | --- | 74.00 | 54.00 | -3.53 | Peak |
| 4965.00 | 38.75 | --- | 8.37 | 47.12 | --- | 74.00 | 54.00 | -6.88 | Peak |
| 5820.00 | 38.03 | --- | 10.26 | 48.29 | --- | 74.00 | 54.00 | -5.71 | Peak |
| 7245.00 | 38.87 | --- | 12.89 | 51.76 | --- | 74.00 | 54.00 | -2.24 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|--------------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11gn HT40 TX / CH Low | Temp. & Humidity | 25°C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 2088.00 | 47.67 | --- | 1.99 | 49.67 | --- | 74.00 | 54.00 | -4.33 | Peak |
| 2262.00 | 48.04 | --- | 2.34 | 50.38 | --- | 74.00 | 54.00 | -3.62 | Peak |
| 2484.00 | 47.88 | --- | 2.78 | 50.66 | --- | 74.00 | 54.00 | -3.34 | Peak |
| 4785.00 | 39.19 | --- | 8.00 | 47.19 | --- | 74.00 | 54.00 | -6.81 | Peak |
| 6345.00 | 38.10 | --- | 11.81 | 49.92 | --- | 74.00 | 54.00 | -4.08 | Peak |
| 7260.00 | 37.41 | --- | 12.94 | 50.35 | --- | 74.00 | 54.00 | -3.65 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 2100.00 | 47.61 | --- | 2.02 | 49.63 | --- | 74.00 | 54.00 | -4.37 | Peak |
| 2276.00 | 47.91 | --- | 2.37 | 50.28 | --- | 74.00 | 54.00 | -3.72 | Peak |
| 2484.00 | 46.26 | --- | 2.78 | 49.04 | --- | 74.00 | 54.00 | -4.96 | Peak |
| 4770.00 | 39.36 | --- | 7.97 | 47.33 | --- | 74.00 | 54.00 | -6.67 | Peak |
| 6390.00 | 38.58 | --- | 11.95 | 50.52 | --- | 74.00 | 54.00 | -3.48 | Peak |
| 7170.00 | 39.07 | --- | 12.66 | 51.72 | --- | 74.00 | 54.00 | -2.28 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|-----------------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11gn HT40 TX / CH Middle | Temp. & Humidity | 25°C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------------------------|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 2006.00 | 47.71 | --- | 1.83 | 49.55 | --- | 74.00 | 54.00 | -4.45 | Peak |
| 2390.00 | 65.99 | 51.11 | 2.59 | 68.58 | 53.70 | 74.00 | 54.00 | -0.30 | AVG |
| 2484.00 | 62.94 | 48.11 | 2.78 | 65.72 | 50.89 | 74.00 | 54.00 | -3.11 | AVG |
| 4905.00 | 38.85 | --- | 8.24 | 47.09 | --- | 74.00 | 54.00 | -6.91 | Peak |
| 6360.00 | 38.45 | --- | 11.86 | 50.31 | --- | 74.00 | 54.00 | -3.69 | Peak |
| 7695.00 | 37.58 | --- | 13.52 | 51.10 | --- | 74.00 | 54.00 | -2.90 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|------------------------------------|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 2048.00 | 49.34 | --- | 1.92 | 51.25 | --- | 74.00 | 54.00 | -2.75 | Peak |
| 2390.00 | 62.30 | 45.11 | 2.59 | 64.89 | 47.70 | 74.00 | 54.00 | -6.30 | AVG |
| 2484.00 | 56.21 | 42.28 | 2.78 | 58.99 | 45.06 | 74.00 | 54.00 | -8.94 | AVG |
| 3990.00 | 41.72 | --- | 5.83 | 47.55 | --- | 74.00 | 54.00 | -6.45 | Peak |
| 4860.00 | 38.48 | --- | 8.15 | 46.63 | --- | 74.00 | 54.00 | -7.37 | Peak |
| 7725.00 | 38.17 | --- | 13.50 | 51.67 | --- | 74.00 | 54.00 | -2.33 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|---------------------------------|-----------------------------|-------------|
| Product Name | Computer | Test By | Davis Tseng |
| Test Model | TREK-572 | Test Date | 2014/10/29 |
| Test Mode | IEEE 802.11gn HT40 TX / CH High | Temp. & Humidity | 25°C, 55% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------------------------|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1934.00 | 47.51 | --- | 1.20 | 48.71 | --- | 74.00 | 54.00 | -5.29 | Peak |
| 2070.00 | 47.59 | --- | 1.96 | 49.55 | --- | 74.00 | 54.00 | -4.45 | Peak |
| 2362.00 | 47.63 | --- | 2.54 | 50.16 | --- | 74.00 | 54.00 | -3.84 | Peak |
| 4485.00 | 40.14 | --- | 7.36 | 47.50 | --- | 74.00 | 54.00 | -6.50 | Peak |
| 4905.00 | 40.16 | --- | 8.24 | 48.40 | --- | 74.00 | 54.00 | -5.60 | Peak |
| 7455.00 | 37.65 | --- | 13.54 | 51.19 | --- | 74.00 | 54.00 | -2.81 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|------------------------------------|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1478.00 | 48.88 | --- | -2.90 | 45.98 | --- | 74.00 | 54.00 | -8.02 | Peak |
| 1986.00 | 47.82 | --- | 1.69 | 49.51 | --- | 74.00 | 54.00 | -4.49 | Peak |
| 2314.00 | 47.09 | --- | 2.44 | 49.53 | --- | 74.00 | 54.00 | -4.47 | Peak |
| 4875.00 | 39.02 | --- | 8.18 | 47.21 | --- | 74.00 | 54.00 | -6.79 | Peak |
| 5640.00 | 38.68 | --- | 9.73 | 48.40 | --- | 74.00 | 54.00 | -5.60 | Peak |
| 6975.00 | 38.58 | --- | 12.14 | 50.72 | --- | 74.00 | 54.00 | -3.28 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|----------------------------------|-----------------------------|---------------|
| Product Name | Computer | Test By | Waternal Guan |
| Test Model | TREK-572 | Test Date | 2014/10/30 |
| Test Mode | Bluetooth 4.0 / TX Mode / CH Low | Temp. & Humidity | 27°C, 54% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 2322.00 | 53.19 | 44.25 | 2.46 | 55.65 | 46.71 | 74.00 | 54.00 | -7.29 | AVG |
| 2482.00 | 51.35 | 42.61 | 2.77 | 54.12 | 45.38 | 74.00 | 54.00 | -8.62 | AVG |
| 2562.00 | 44.82 | --- | 2.97 | 47.79 | --- | 74.00 | 54.00 | -6.21 | Peak |
| 4800.00 | 38.76 | --- | 8.03 | 46.79 | --- | 74.00 | 54.00 | -7.21 | Peak |
| 5040.00 | 40.26 | --- | 8.51 | 48.77 | --- | 74.00 | 54.00 | -5.23 | Peak |
| 6270.00 | 38.75 | --- | 11.59 | 50.35 | --- | 74.00 | 54.00 | -3.65 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1662.00 | 44.47 | --- | -1.37 | 43.10 | --- | 74.00 | 54.00 | -10.90 | Peak |
| 2322.00 | 46.14 | --- | 2.46 | 48.59 | --- | 74.00 | 54.00 | -5.41 | Peak |
| 2482.00 | 46.86 | --- | 2.77 | 49.63 | --- | 74.00 | 54.00 | -4.37 | Peak |
| 4740.00 | 40.09 | --- | 7.90 | 48.00 | --- | 74.00 | 54.00 | -6.00 | Peak |
| 5070.00 | 40.06 | --- | 8.56 | 48.63 | --- | 74.00 | 54.00 | -5.37 | Peak |
| 6045.00 | 38.78 | --- | 10.93 | 49.72 | --- | 74.00 | 54.00 | -4.28 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

| | | | |
|---------------------|-------------------------------------|-----------------------------|---------------|
| Product Name | Computer | Test By | Waternal Guan |
| Test Model | TREK-572 | Test Date | 2014/10/30 |
| Test Mode | Bluetooth 4.0 / TX Mode / CH Middle | Temp. & Humidity | 27°C, 54% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1734.00 | 47.49 | --- | -0.69 | 46.80 | --- | 74.00 | 54.00 | -7.20 | Peak |
| 2360.00 | 48.14 | --- | 2.53 | 50.67 | --- | 74.00 | 54.00 | -3.33 | Peak |
| 2520.00 | 47.32 | --- | 2.86 | 50.18 | --- | 74.00 | 54.00 | -3.82 | Peak |
| 4890.00 | 38.39 | --- | 8.21 | 46.61 | --- | 74.00 | 54.00 | -7.39 | Peak |
| 6030.00 | 38.89 | --- | 10.89 | 49.78 | --- | 74.00 | 54.00 | -4.22 | Peak |
| 6465.00 | 39.17 | --- | 12.17 | 51.34 | --- | 74.00 | 54.00 | -2.66 | Peak |

| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|---|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1908.00 | 43.62 | --- | 0.95 | 44.57 | --- | 74.00 | 54.00 | -9.43 | Peak |
| 2360.00 | 45.59 | --- | 2.53 | 48.12 | --- | 74.00 | 54.00 | -5.88 | Peak |
| 2520.00 | 44.53 | --- | 2.86 | 47.39 | --- | 74.00 | 54.00 | -6.61 | Peak |
| 4845.00 | 39.19 | --- | 8.12 | 47.31 | --- | 74.00 | 54.00 | -6.69 | Peak |
| 5220.00 | 40.14 | --- | 8.82 | 48.96 | --- | 74.00 | 54.00 | -5.04 | Peak |
| 6510.00 | 38.72 | --- | 12.27 | 50.99 | --- | 74.00 | 54.00 | -3.01 | Peak |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

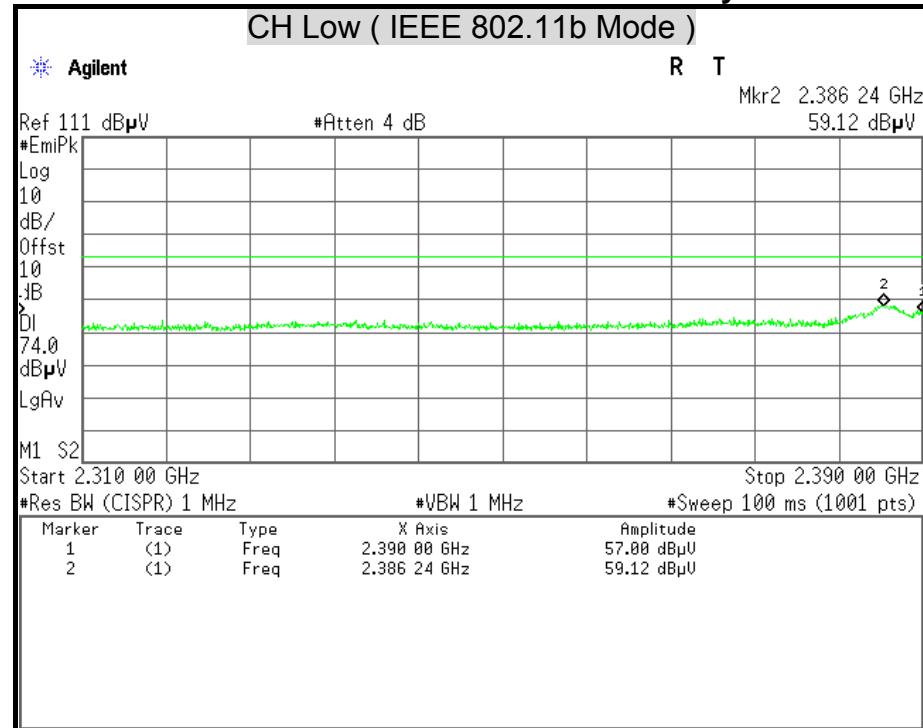
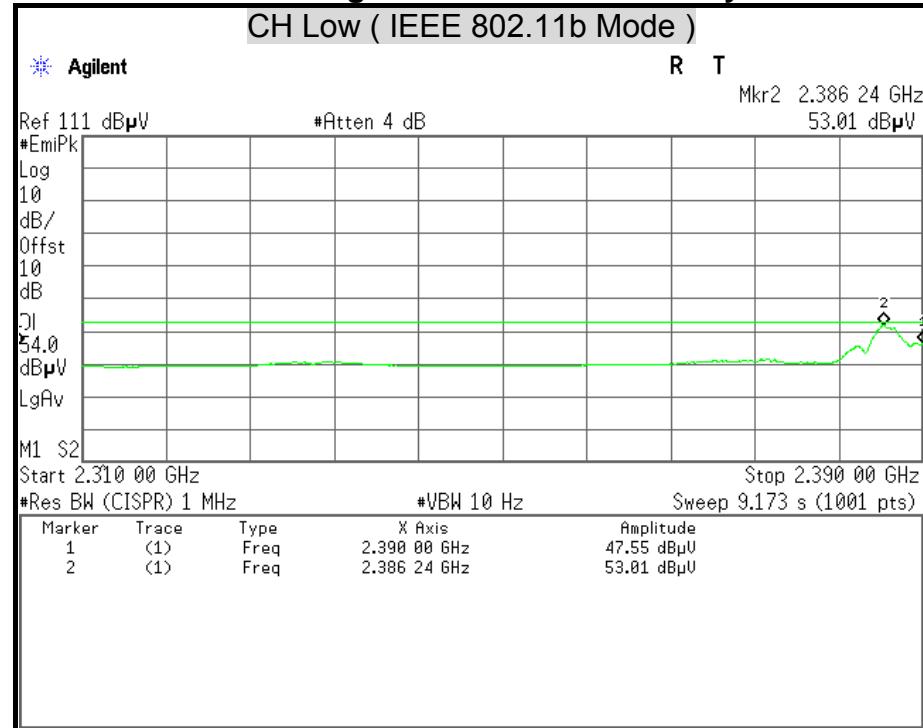
| | | | |
|---------------------|-----------------------------------|-----------------------------|---------------|
| Product Name | Computer | Test By | Waternal Guan |
| Test Model | TREK-572 | Test Date | 2014/10/30 |
| Test Mode | Bluetooth 4.0 / TX Mode / CH High | Temp. & Humidity | 27°C, 54% |

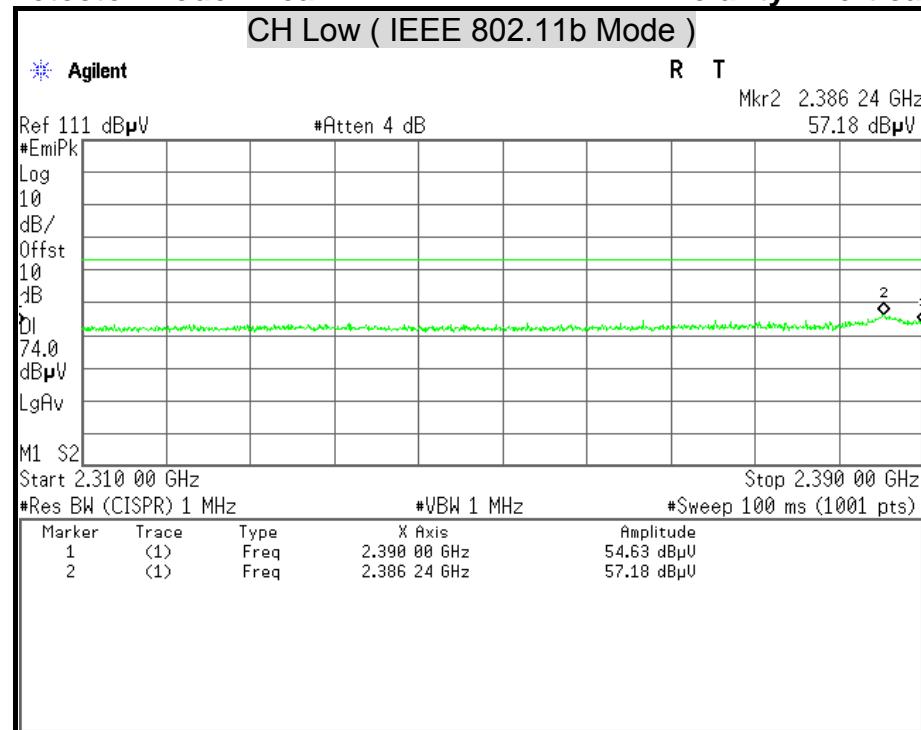
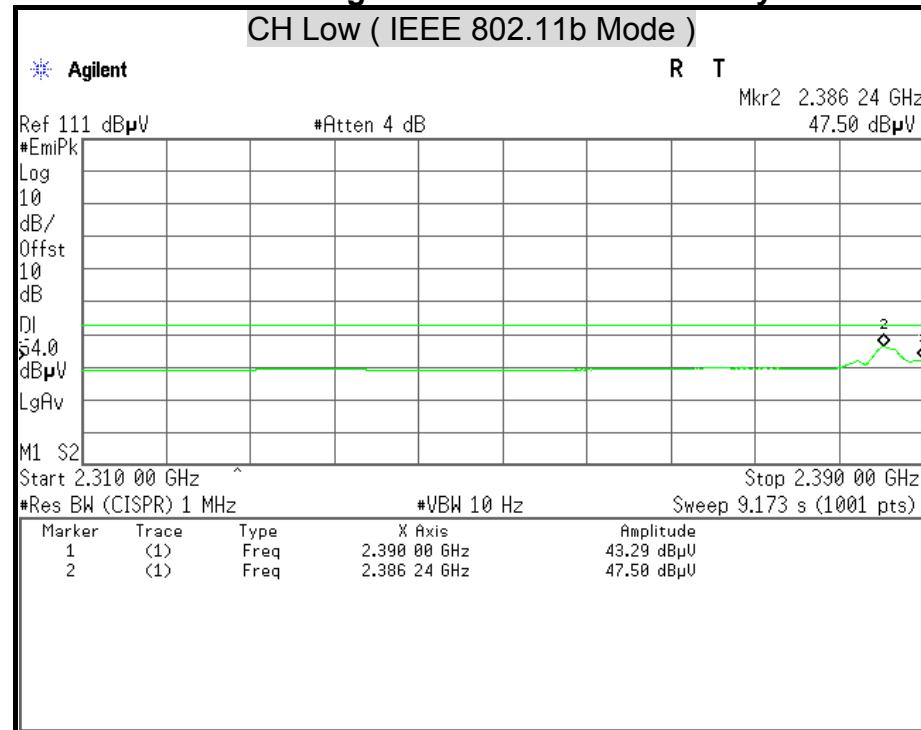
| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------------------------|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 2288.00 | 44.86 | --- | 2.39 | 47.25 | --- | 74.00 | 54.00 | -6.75 | Peak |
| 2560.00 | 47.05 | --- | 2.96 | 50.01 | --- | 74.00 | 54.00 | -3.99 | Peak |
| 2672.00 | 43.41 | --- | 3.25 | 46.66 | --- | 74.00 | 54.00 | -7.34 | Peak |
| 4950.00 | 39.63 | --- | 8.34 | 47.97 | --- | 74.00 | 54.00 | -6.03 | Peak |
| 5355.00 | 39.58 | --- | 9.06 | 48.64 | --- | 74.00 | 54.00 | -5.36 | Peak |
| 6540.00 | 39.79 | --- | 12.26 | 52.05 | --- | 74.00 | 54.00 | -1.95 | Peak |

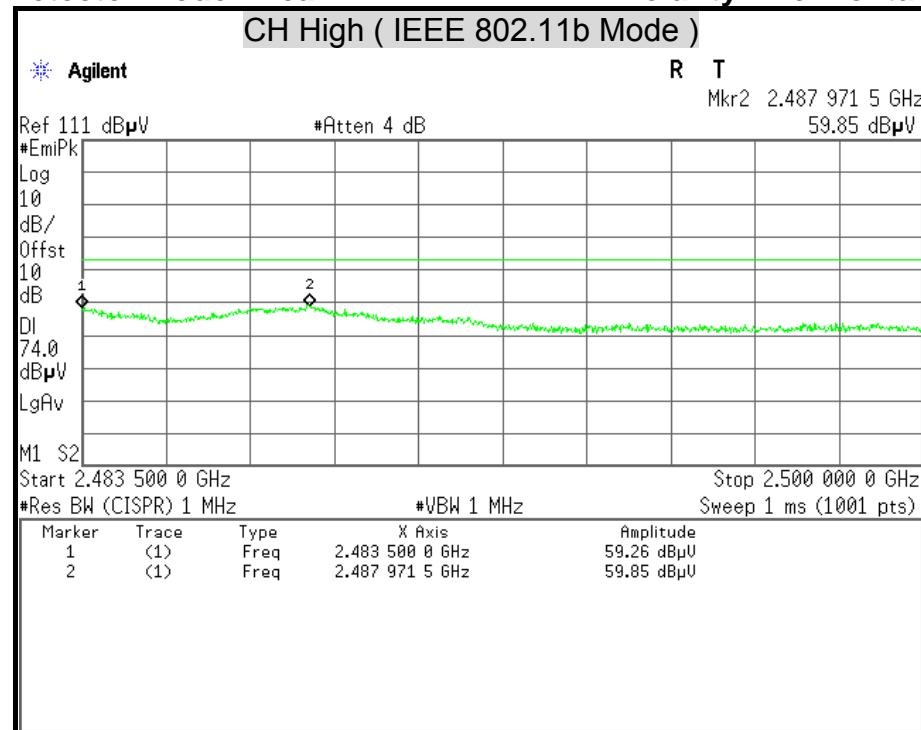
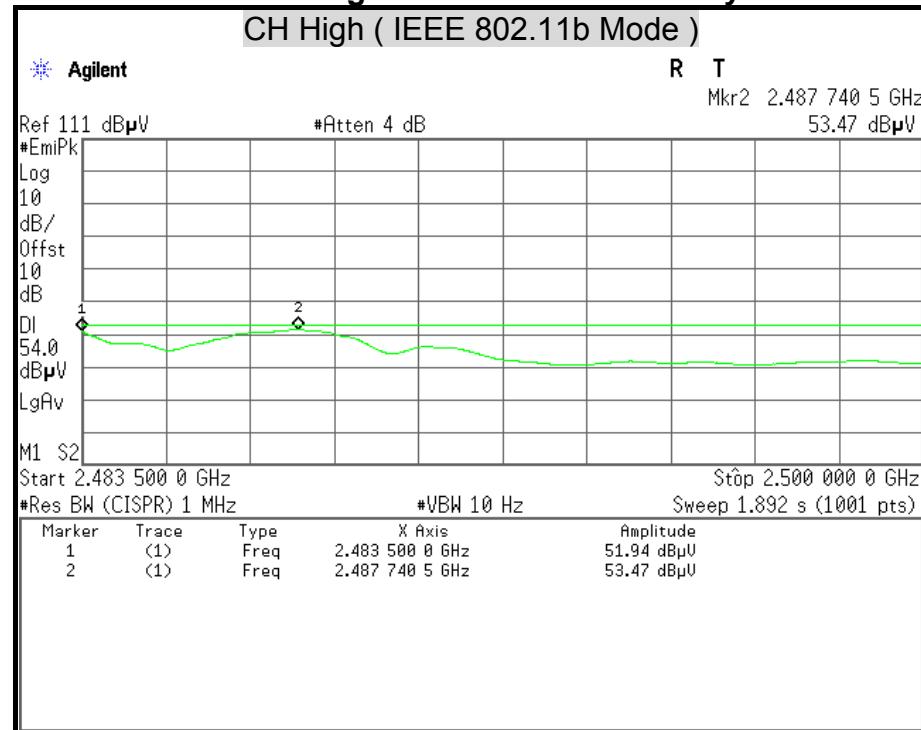
| 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|------------------------------------|-------------------|-------------------|--------------------------|--------------------|--------------------|-------------------|-------------------|-------------|--------|
| Frequency (MHz) | Reading-PK (dBuV) | Reading-AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1826.00 | 42.98 | --- | 0.18 | 43.16 | --- | 74.00 | 54.00 | -10.84 | Peak |
| 2012.00 | 42.58 | --- | 1.84 | 44.43 | --- | 74.00 | 54.00 | -9.57 | Peak |
| 2560.00 | 43.87 | --- | 2.96 | 46.83 | --- | 74.00 | 54.00 | -7.17 | Peak |
| 4725.00 | 39.85 | --- | 7.87 | 47.72 | --- | 74.00 | 54.00 | -6.28 | Peak |
| 4995.00 | 39.25 | --- | 8.43 | 47.68 | --- | 74.00 | 54.00 | -6.32 | Peak |
| 6270.00 | 38.29 | --- | 11.59 | 49.88 | --- | 74.00 | 54.00 | -4.12 | Peak |

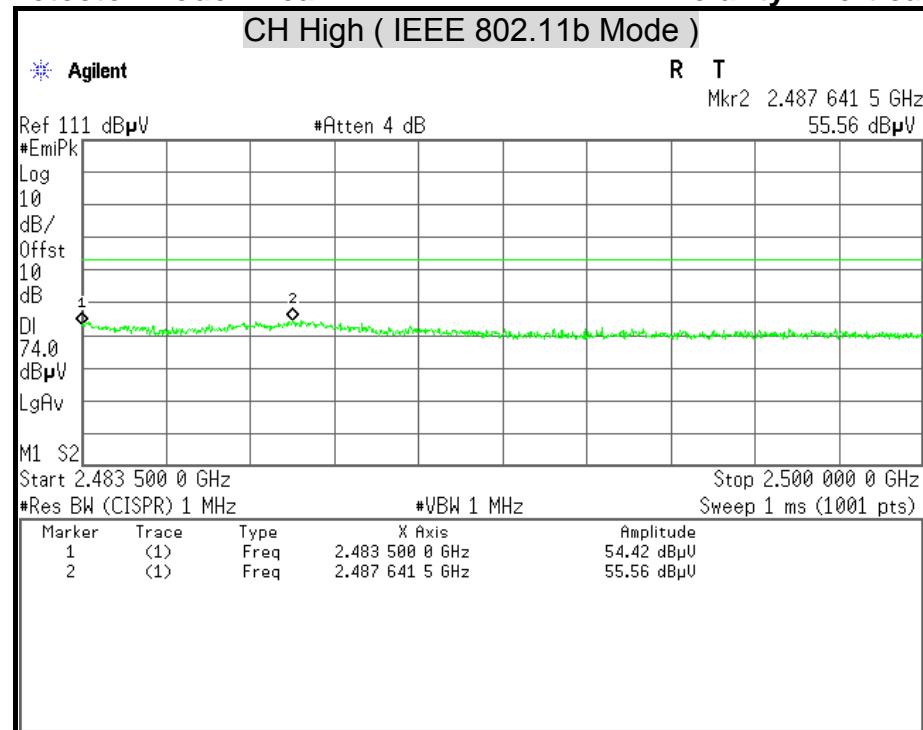
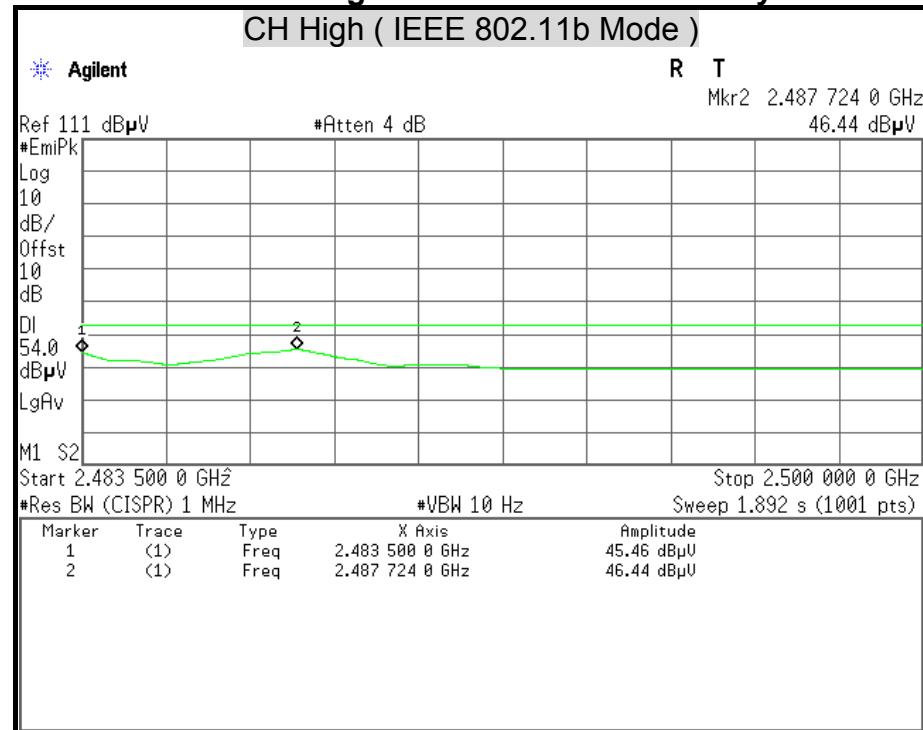
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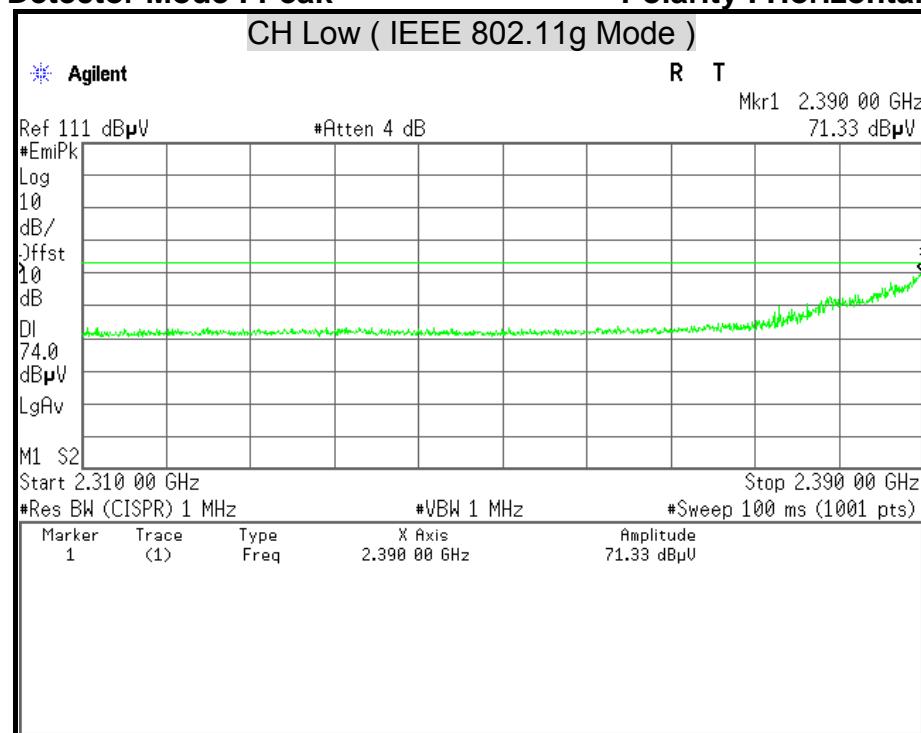
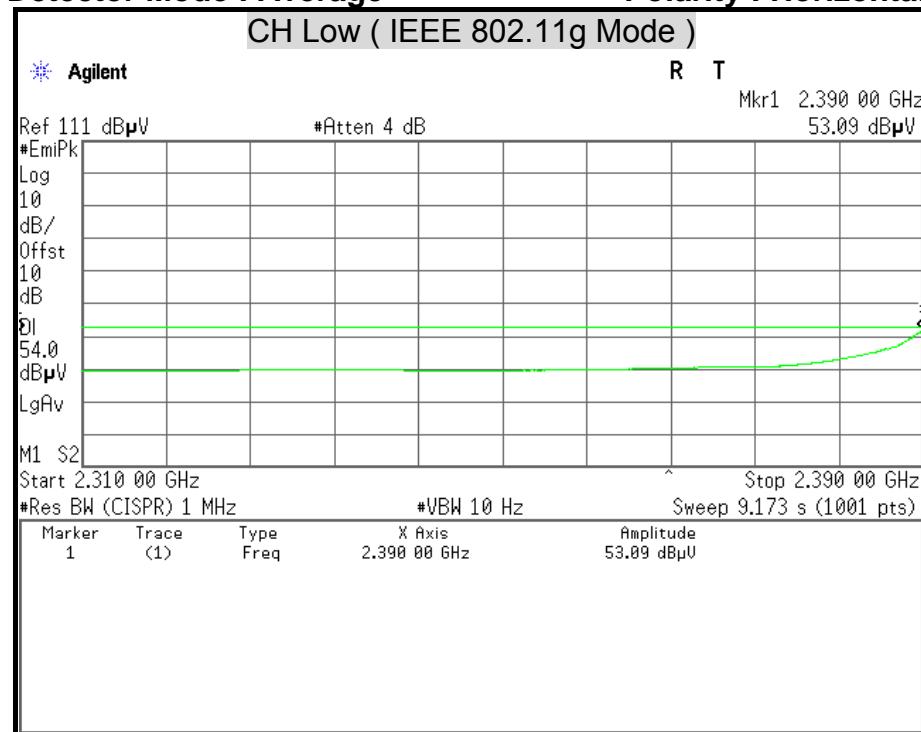
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)

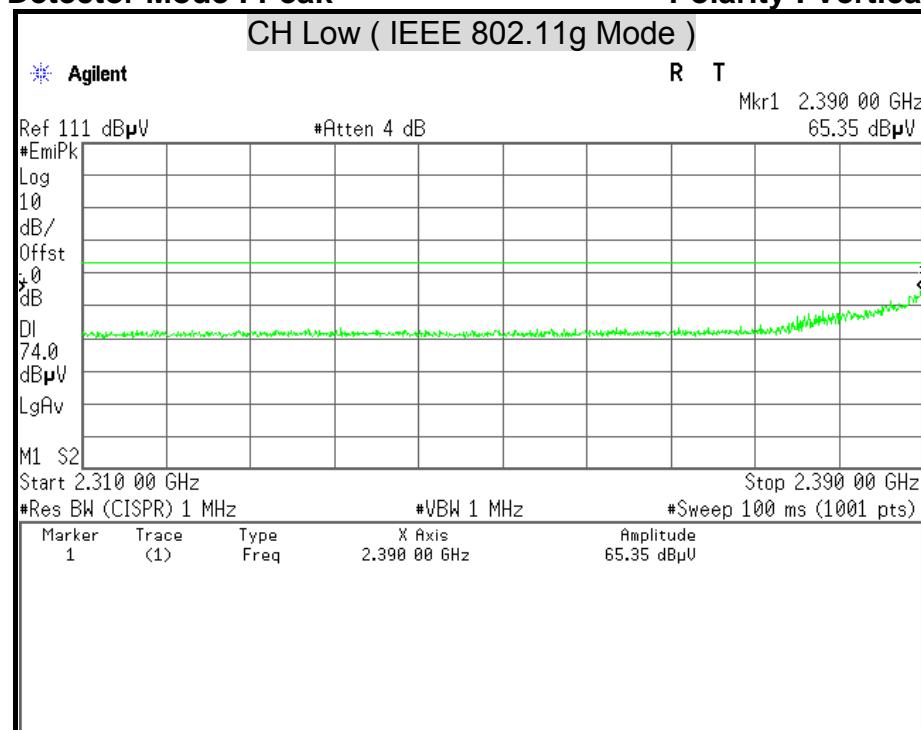
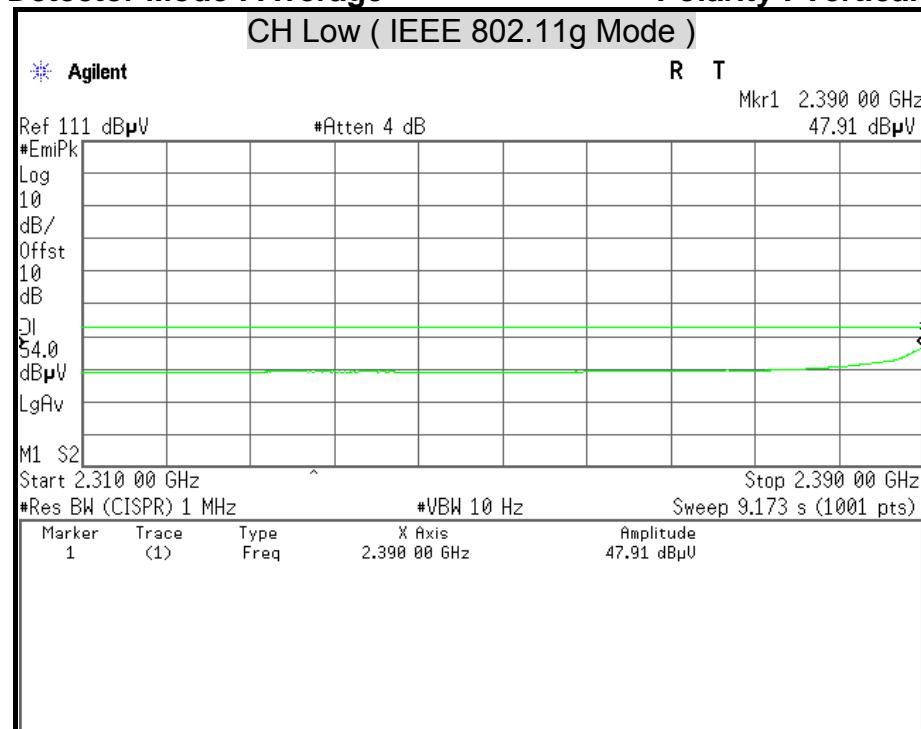
Restricted Band Edges**Detector Mode : Peak Polarity : Horizontal****Detector Mode : Average Polarity : Horizontal**

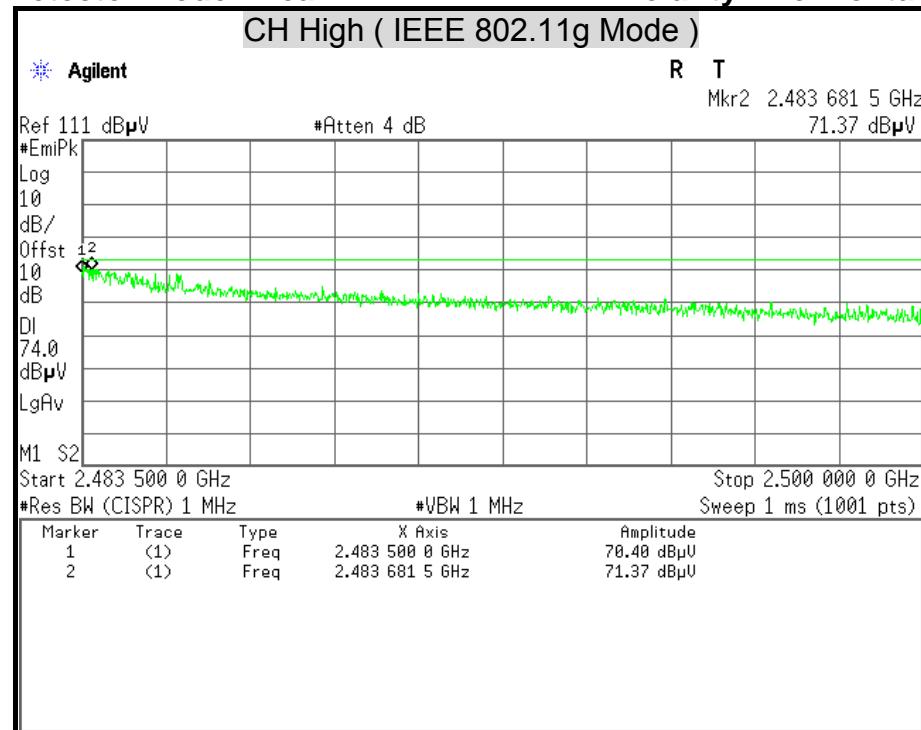
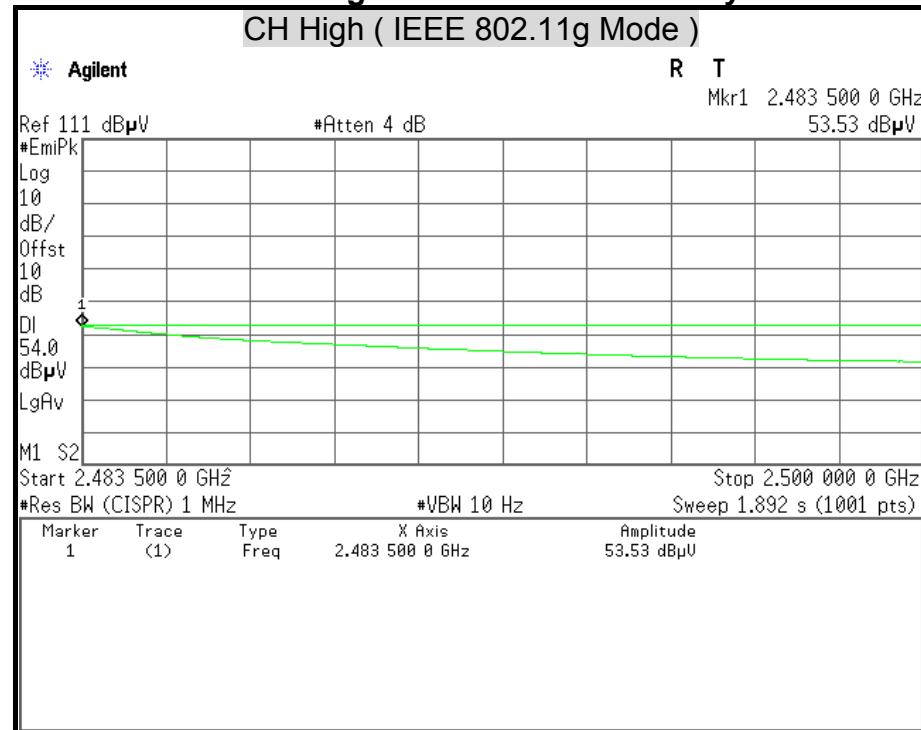
Detector Mode : Peak**Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

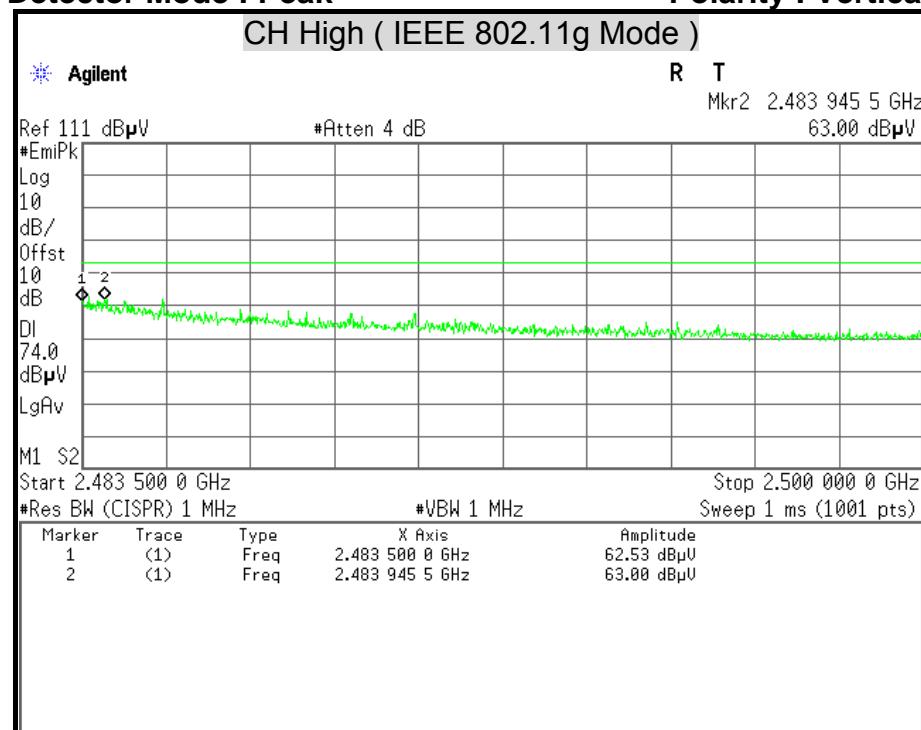
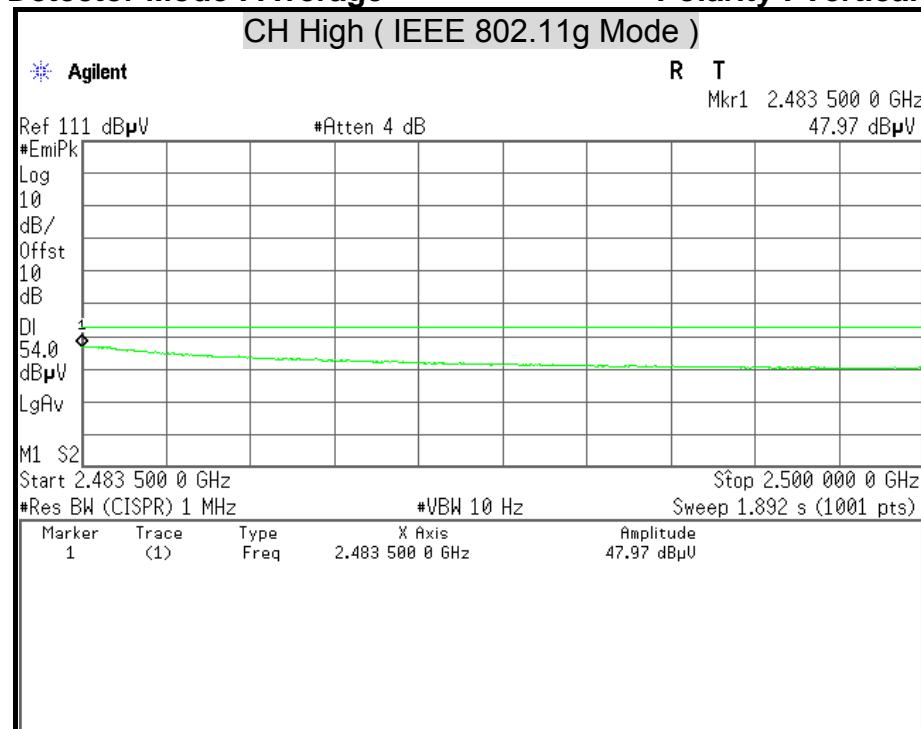
Detector Mode : Peak**Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

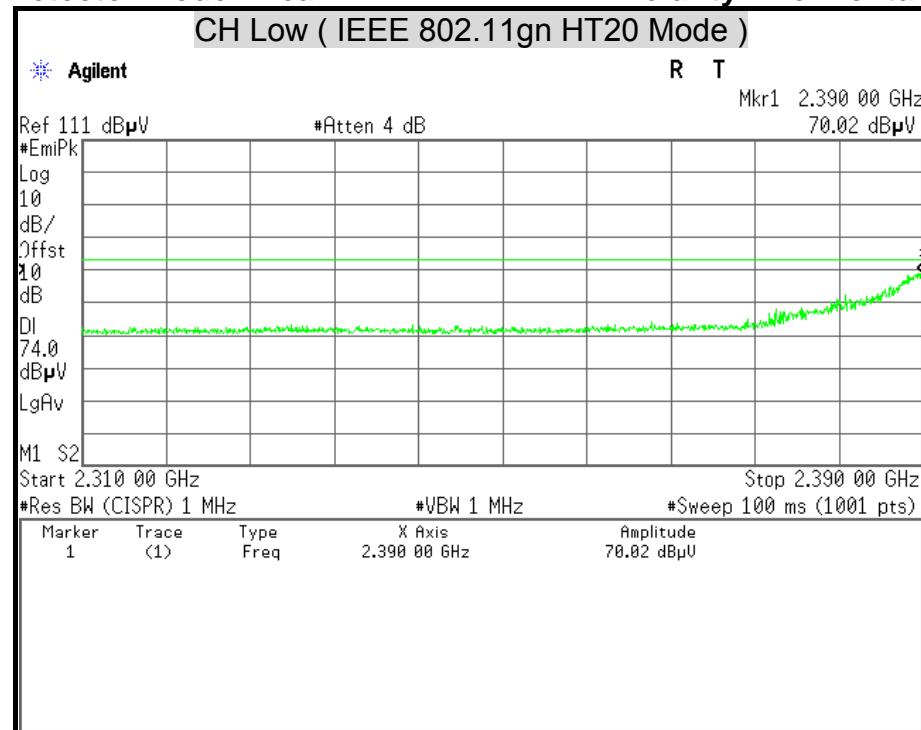
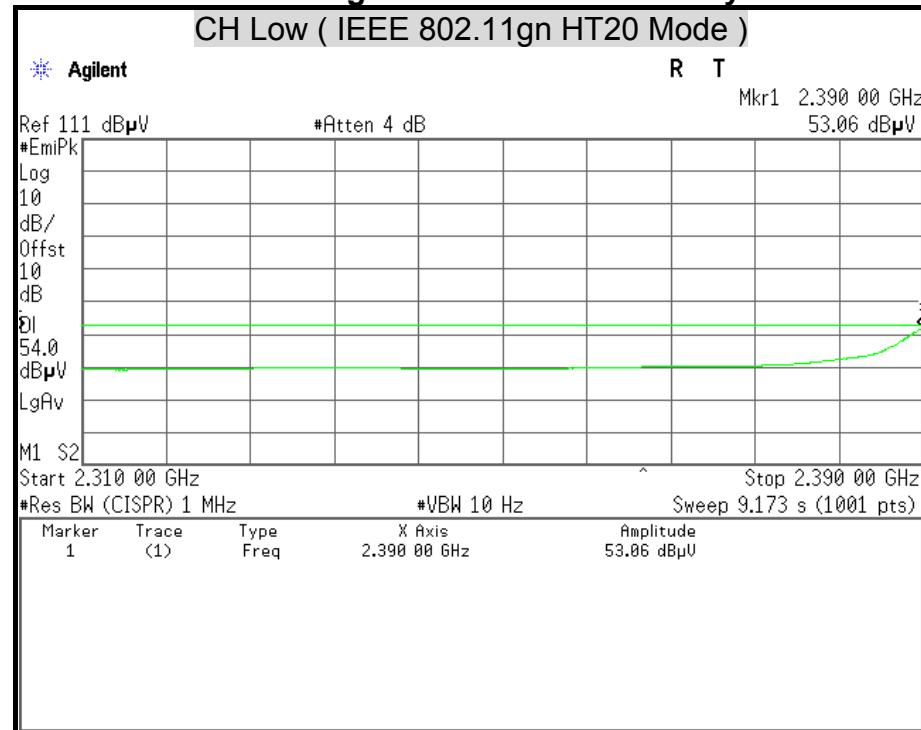
Detector Mode : Peak**Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

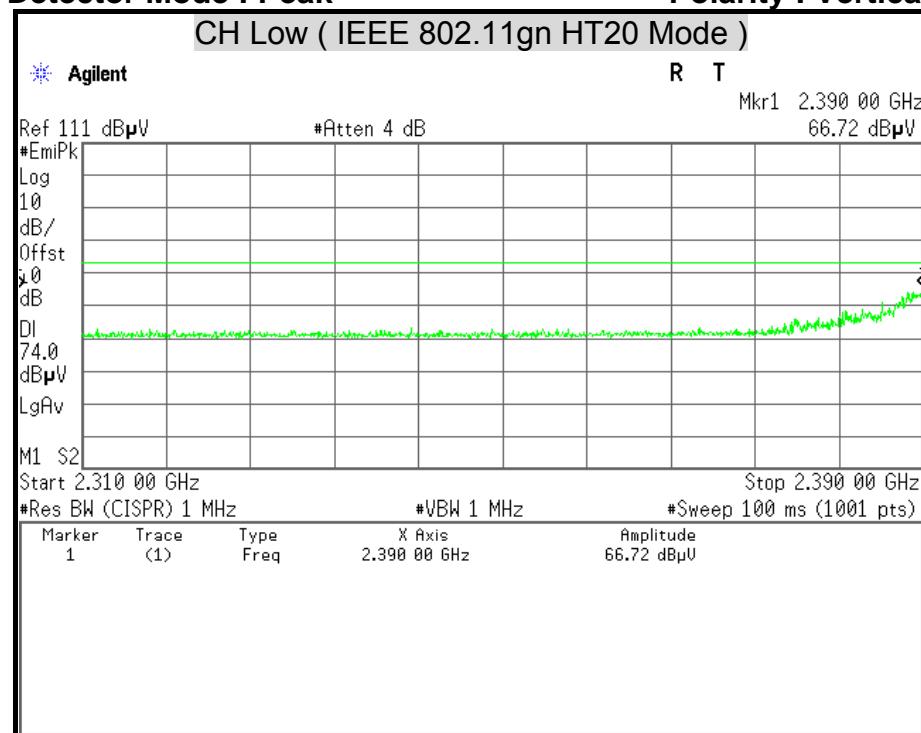
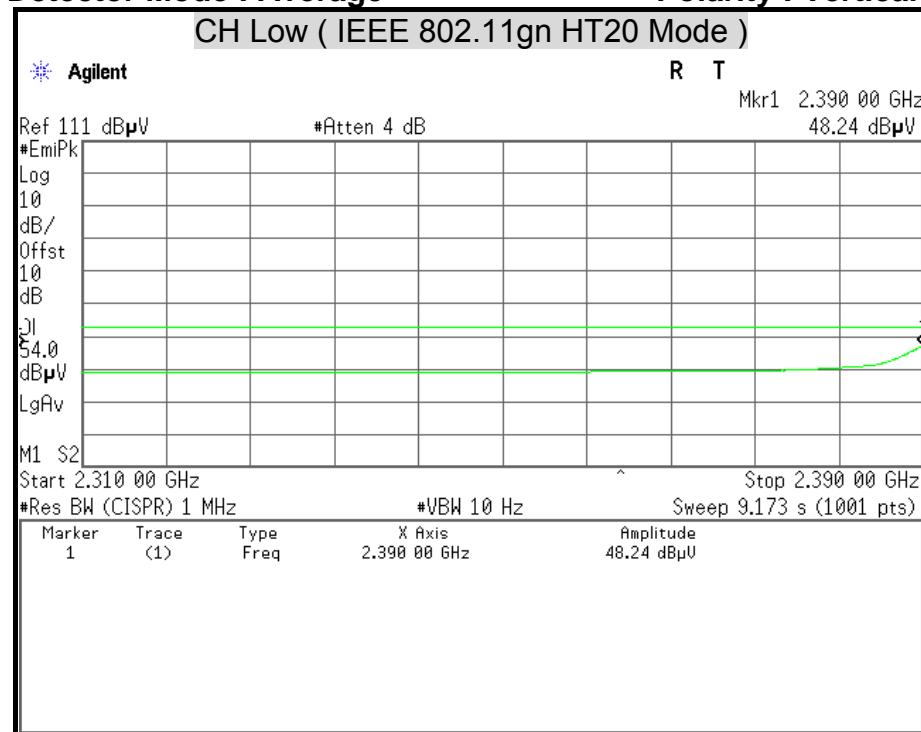
Detector Mode : Peak**Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

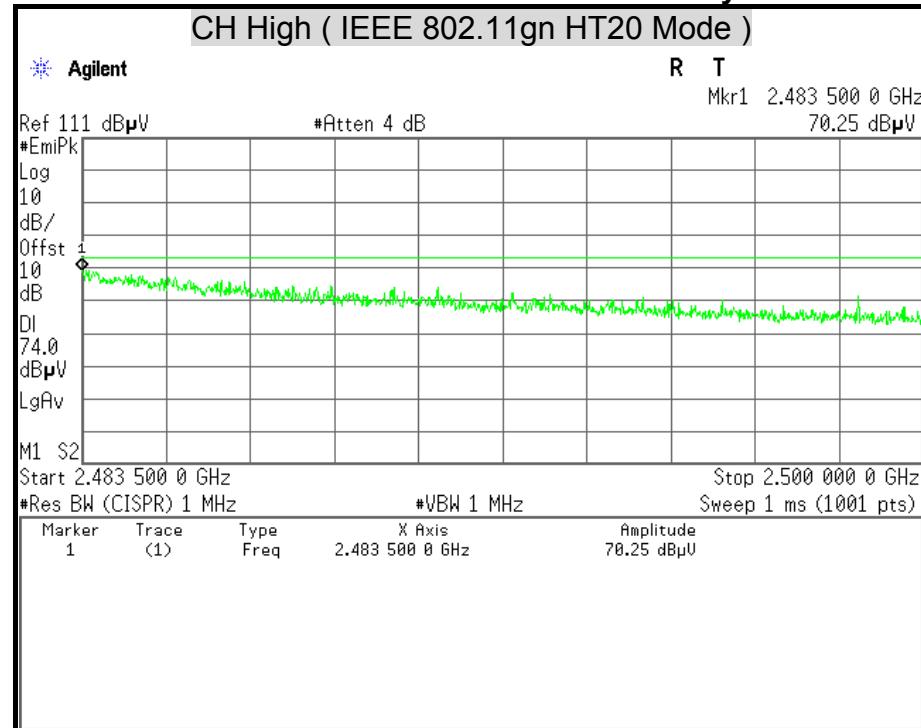
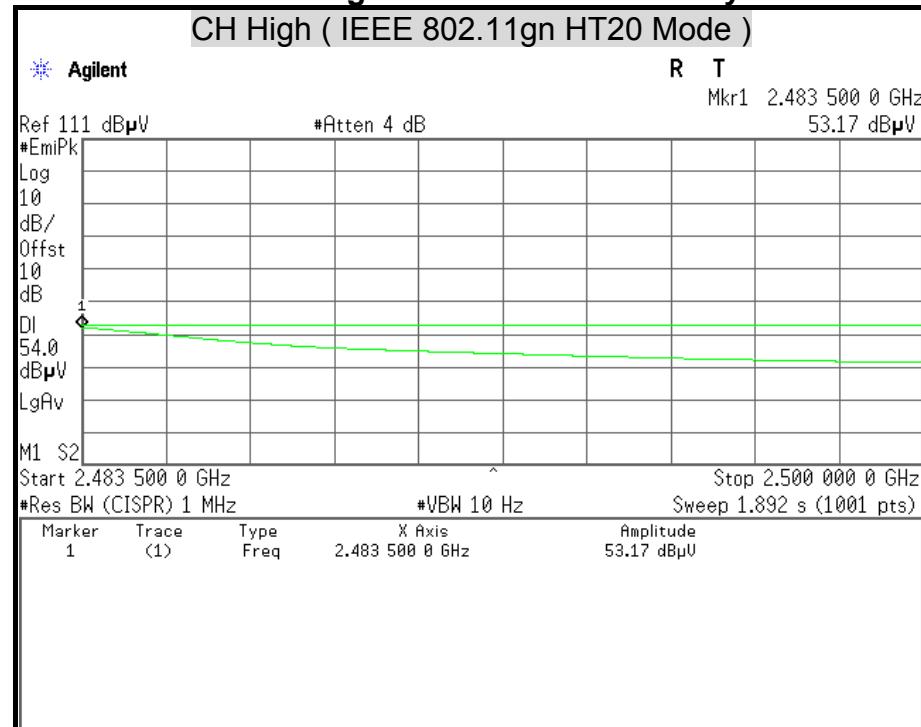
Detector Mode : Peak**Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

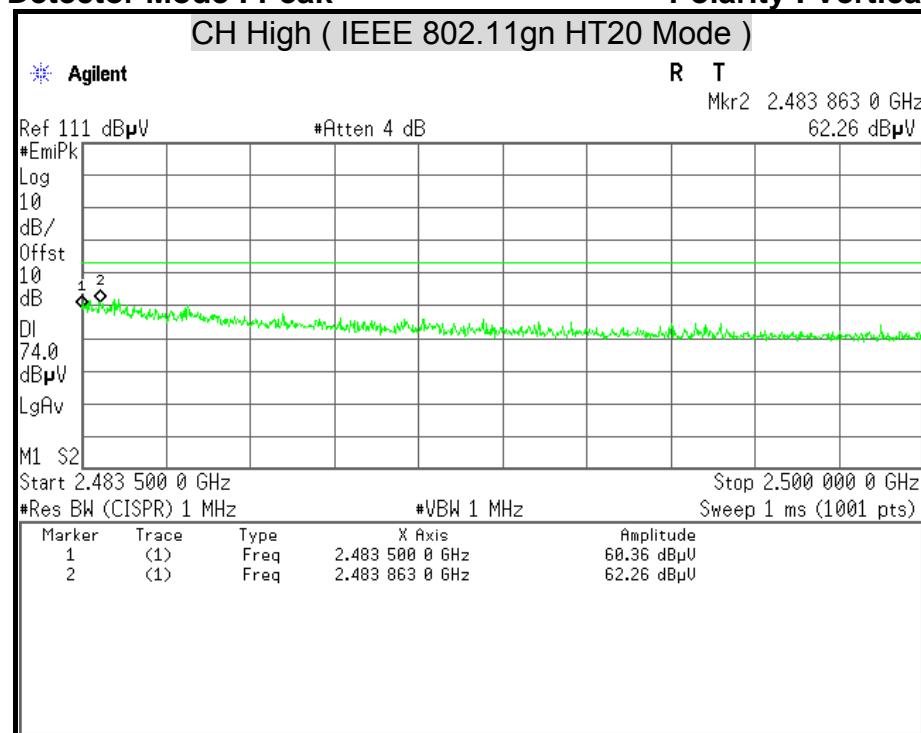
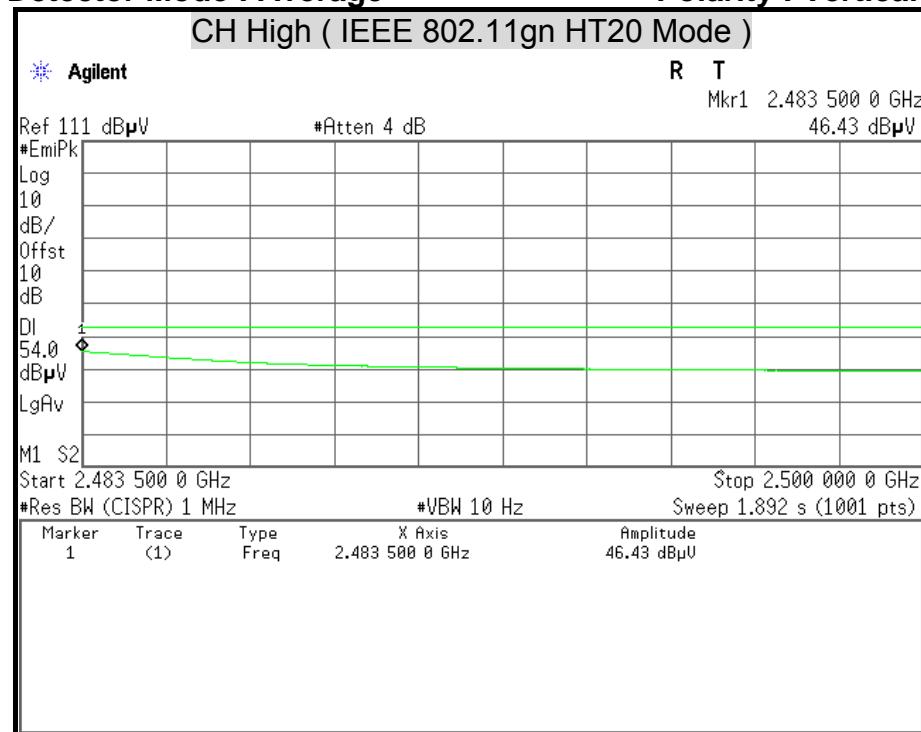
Detector Mode : Peak**Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

Detector Mode : Peak**Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

Detector Mode : Peak**Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

Detector Mode : Peak**Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

Detector Mode : Peak**Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

Detector Mode : Peak**Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

Detector Mode : Peak**Polarity : Horizontal**

CH Low (IEEE 802.11gn HT40 Mode)

* Agilent

R T

Mkr1 2.390 00 GHz

68.73 dB μ VRef 111 dB μ V

#Atten 4 dB

#EmiPk

Log

10

dB/

Offst

10

dB

DI

74.0

dB μ V

LgAv

M1 S2

Start 2.310 00 GHz

Stop 2.390 00 GHz

#Res BW (CISPR) 1 MHz

#VBW 1 MHz

#Sweep 100 ms (1001 pts)

Marker 1

Trace (1)

Type

X Axis

Amplitude

2.390 00 GHz

68.73 dB μ V**Detector Mode : Average****Polarity : Horizontal**

CH Low (IEEE 802.11gn HT40 Mode)

* Agilent

R T

Mkr1 2.390 00 GHz

53.41 dB μ VRef 111 dB μ V

#Atten 4 dB

#EmiPk

Log

10

dB/

Offst

10

dB

DI

54.0

dB μ V

LgAv

M1 S2

Start 2.310 00 GHz

Stop 2.390 00 GHz

#Res BW (CISPR) 1 MHz

#VBW 10 Hz

Sweep 9.173 s (1001 pts)

Marker 1

Trace (1)

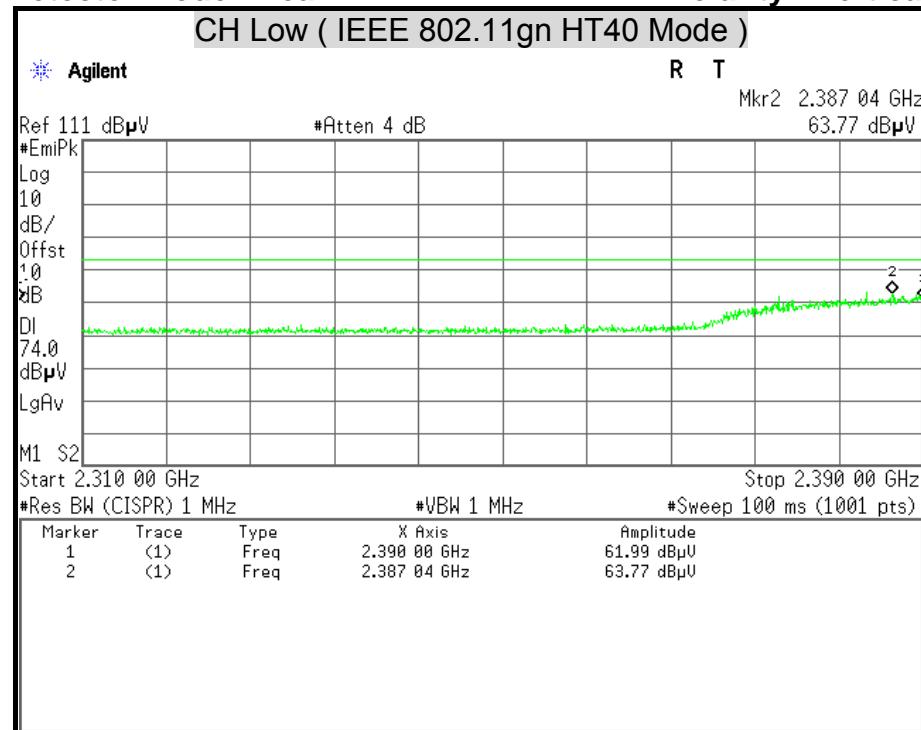
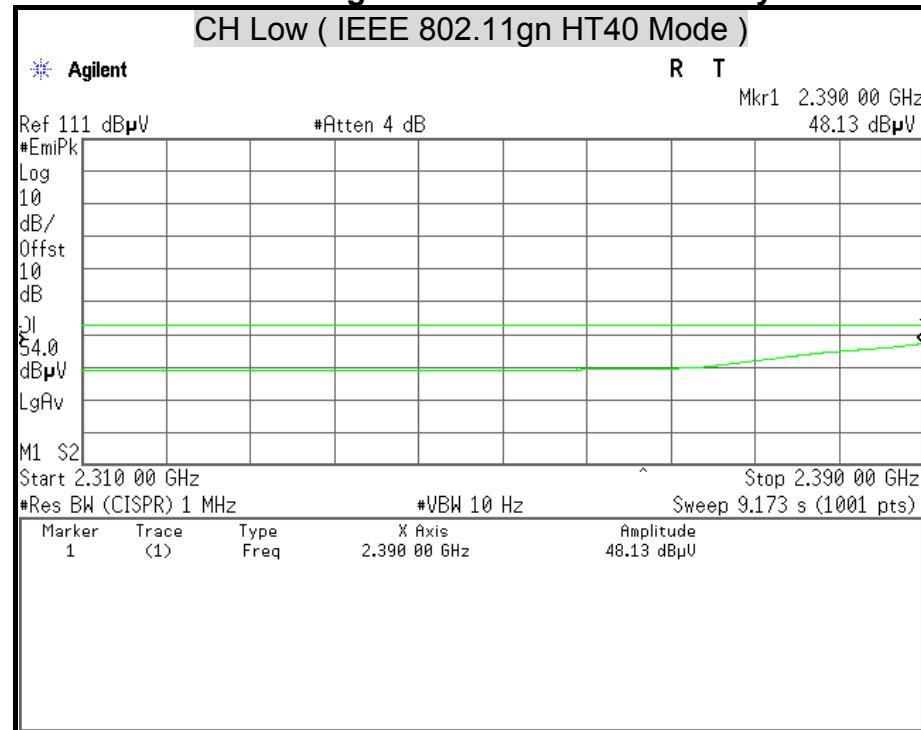
Type

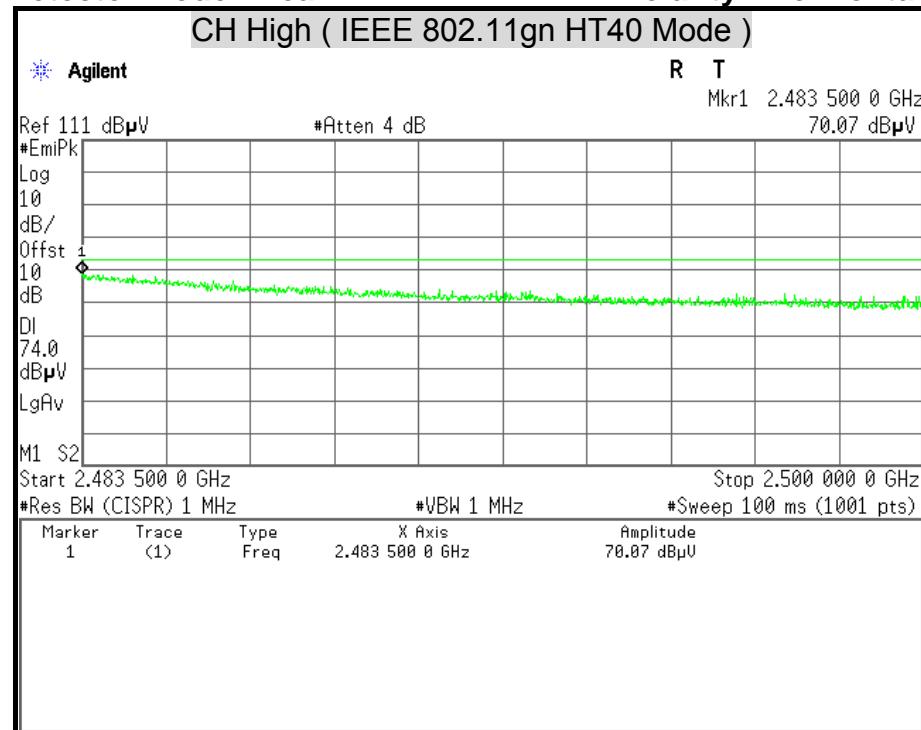
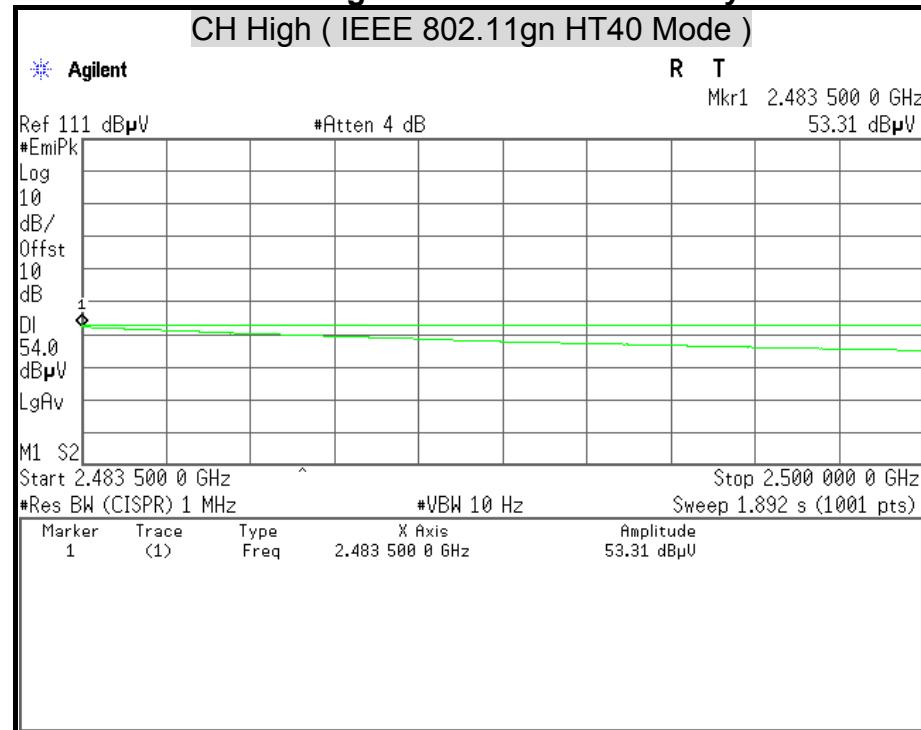
X Axis

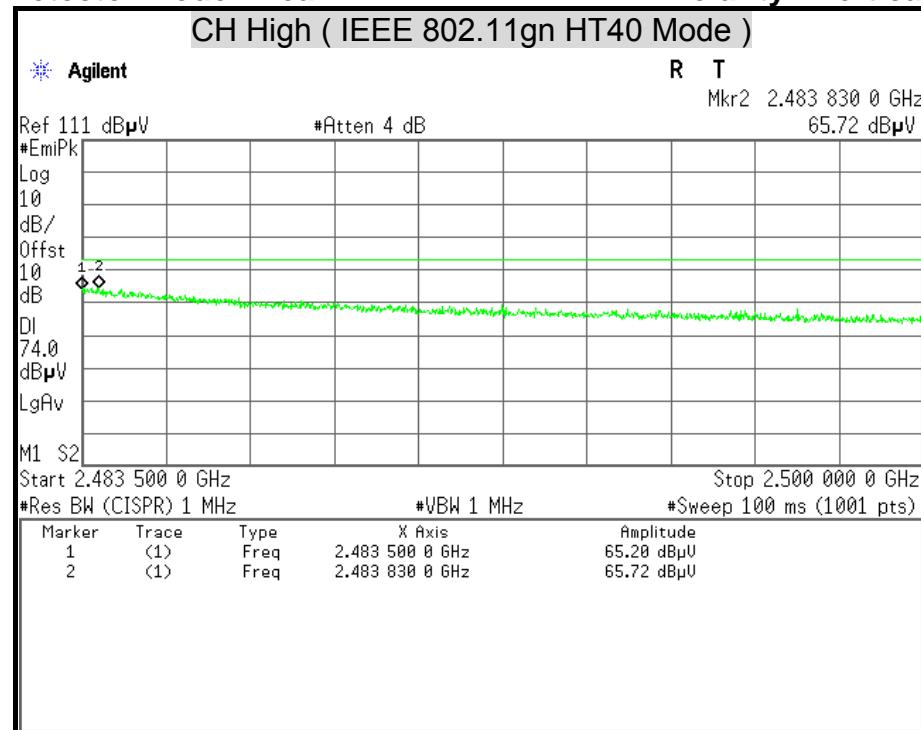
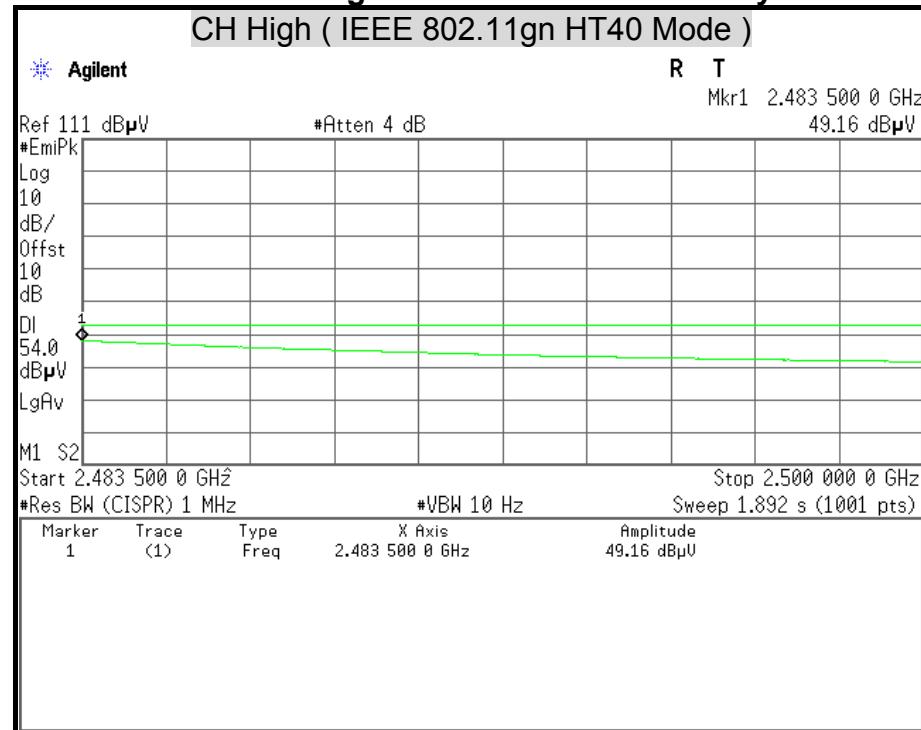
Amplitude

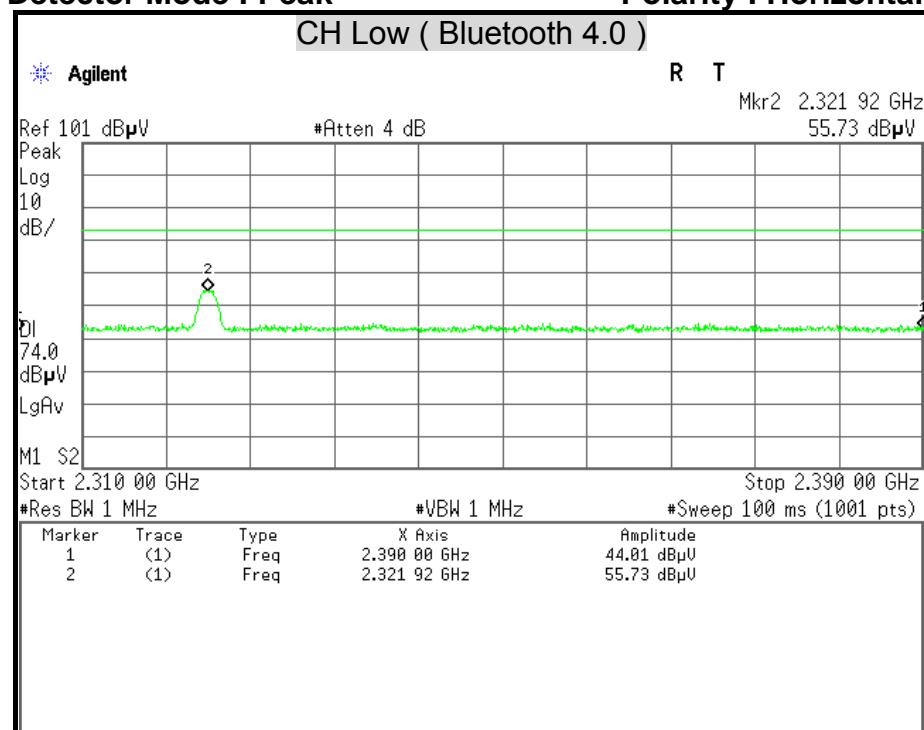
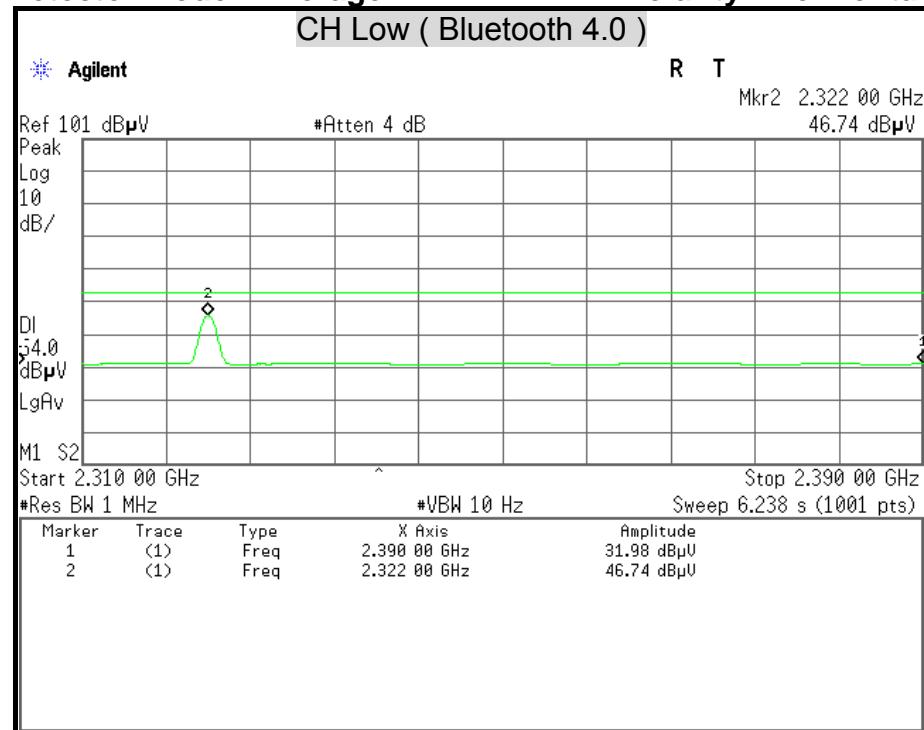
2.390 00 GHz

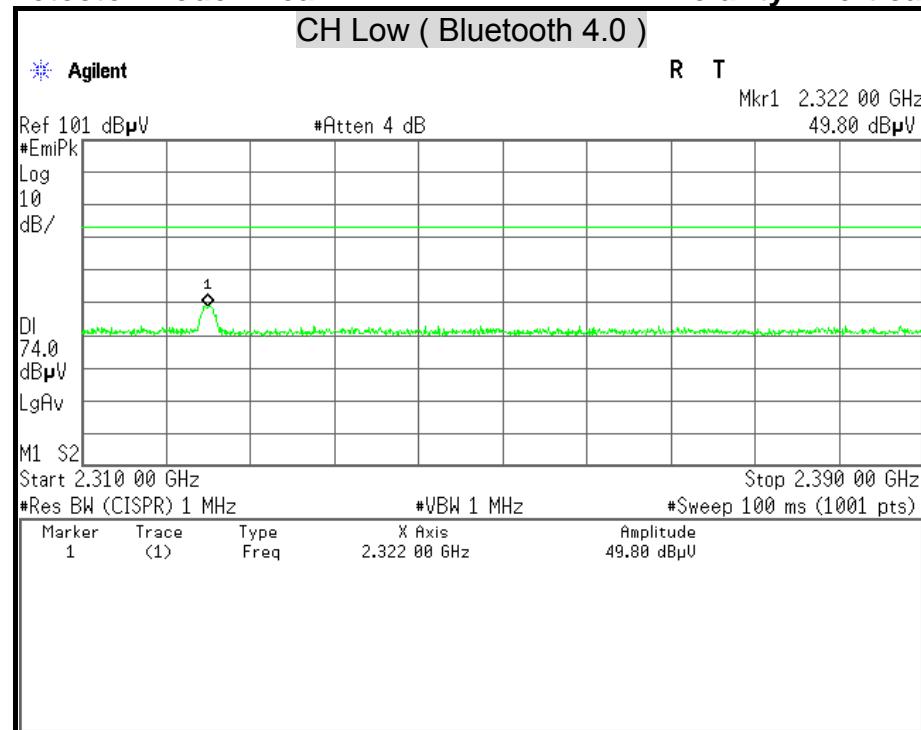
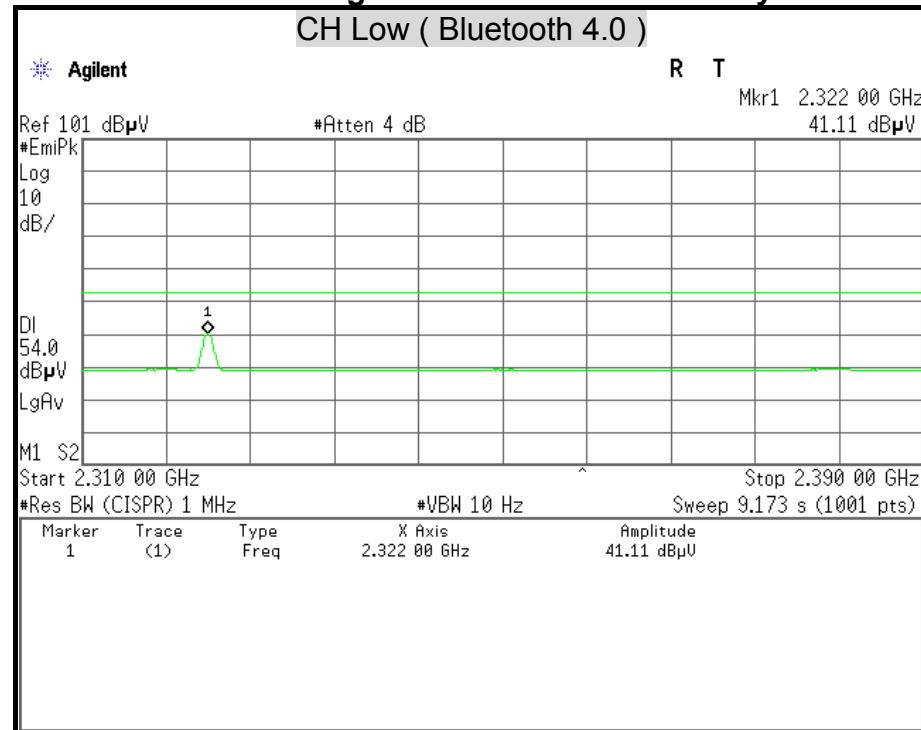
53.41 dB μ V

Detector Mode : Peak**Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

Detector Mode : Peak**Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

Detector Mode : Peak**Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

Detector Mode : Peak**Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

Detector Mode : Peak**Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

Detector Mode : Peak**Polarity : Horizontal**

CH High (Bluetooth 4.0)

* Agilent

R T

Mkr2 2.483 582 5 GHz

47.74 dB μ VRef 101 dB μ V

#Atten 4 dB

#EmiPk

Log

10

dB/

DI

74.0

dB μ V

LgAv

M1 S2

Start 2.483 500 0 GHz

Stop 2.500 000 0 GHz

#Res BW (CISPR) 1 MHz

#VBW 1 MHz

#Sweep 100 ms (1001 pts)

Marker Trace Type X Axis Amplitude

1 (1) Freq 2.483 500 0 GHz 47.38 dB μ V2 (1) Freq 2.483 582 5 GHz 47.74 dB μ V**Detector Mode : Average****Polarity : Horizontal**

CH High (Bluetooth 4.0)

* Agilent

R T

Mkr1 2.483 500 0 GHz

33.30 dB μ VRef 101 dB μ V

#Atten 4 dB

#EmiPk

Log

10

dB/

DI

54.0

dB μ V

LgAv

M1 S2

Start 2.483 500 0 GHz

Stop 2.500 000 0 GHz

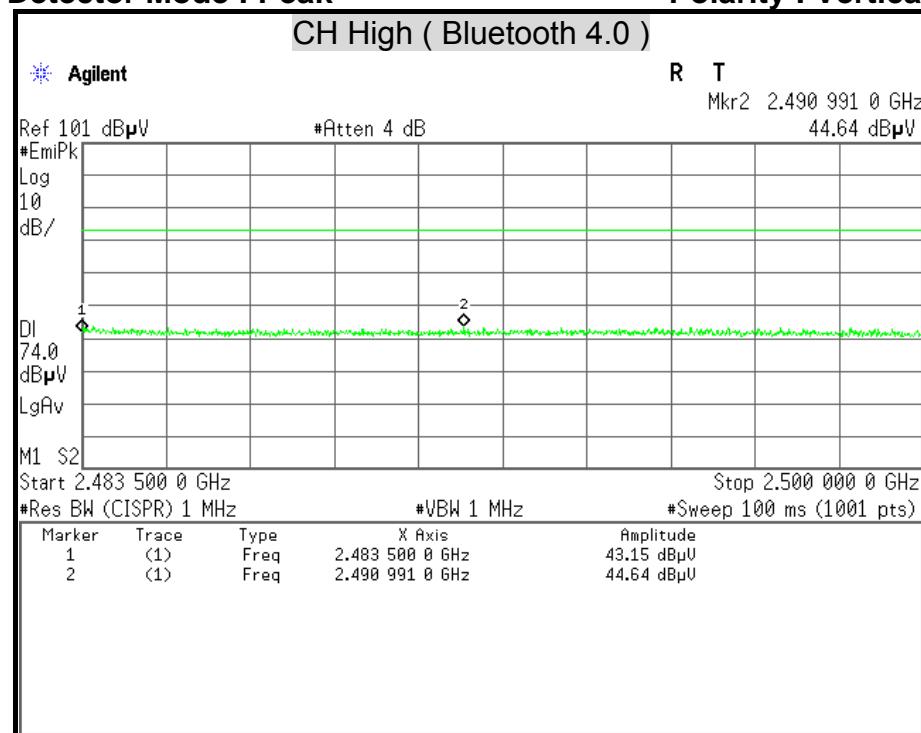
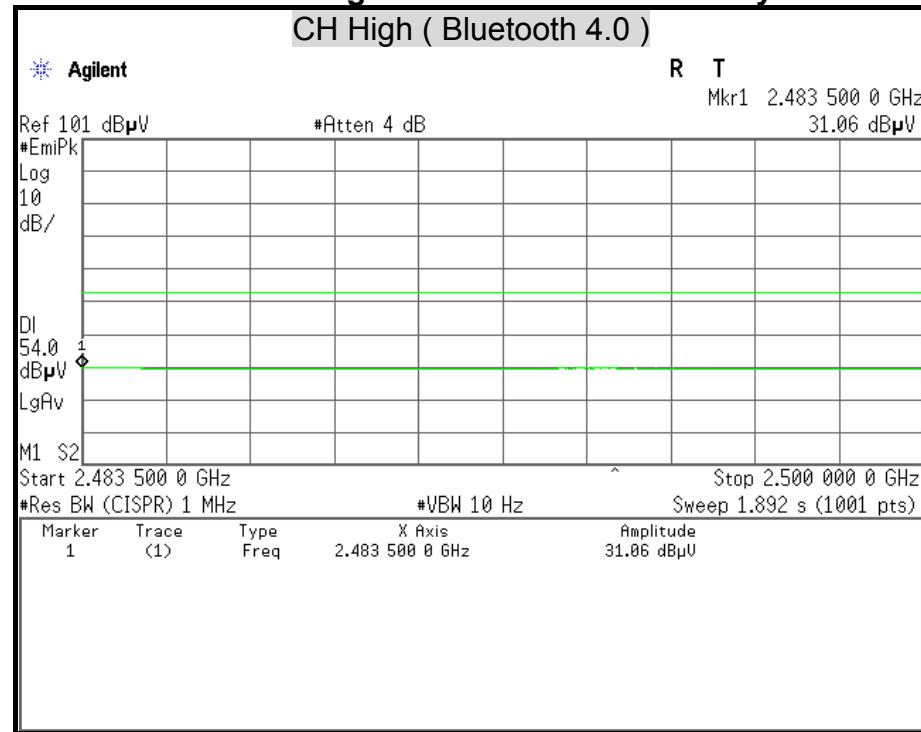
#Res BW (CISPR) 1 MHz

#VBW 10 Hz

Sweep 1.892 s (1001 pts)

Marker Trace Type X Axis Amplitude

1 (1) Freq 2.483 500 0 GHz 33.30 dB μ V

Detector Mode : Peak**Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

7.7 CONDUCTED EMISSION

LIMITS

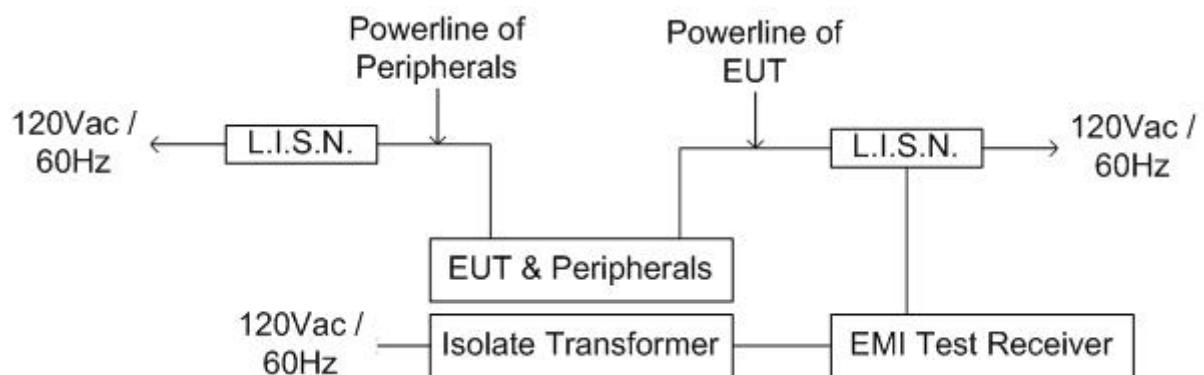
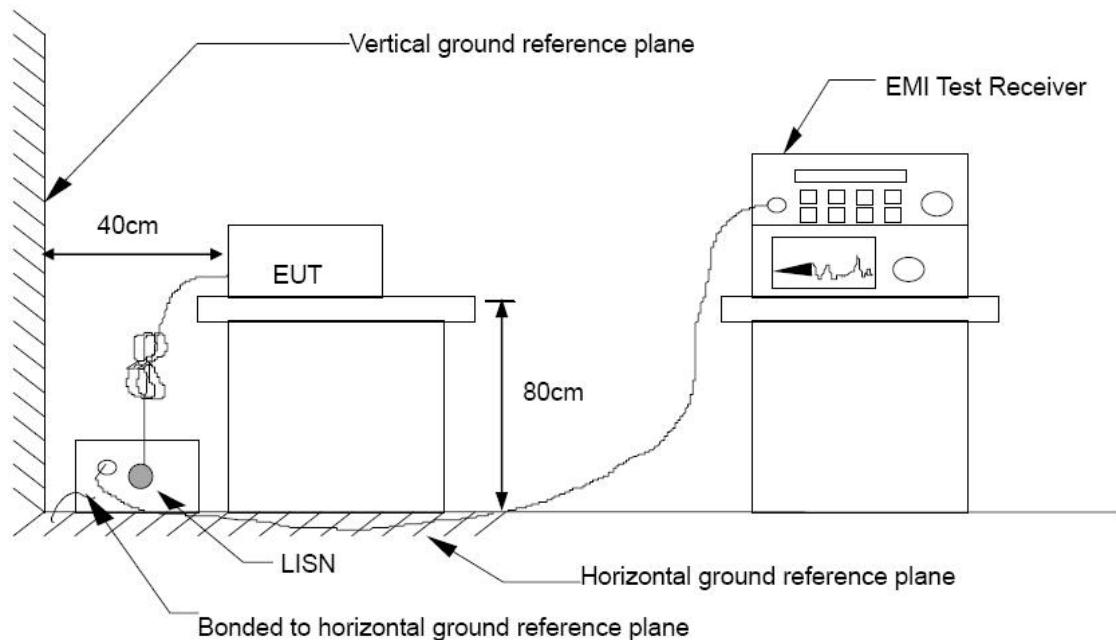
§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency Range (MHz) | Conducted Limit (dB μ V) | |
|--------------------------|------------------------------|----------|
| | Quasi-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5.00 | 56 | 46 |
| 5.00 - 30.0 | 60 | 50 |

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|-----------------|-----------|---------------|-----------------|
| L.I.S.N | Schwarzbeck | NSLK 8127 | 8127-465 | 08/06/2015 |
| L.I.S.N | Schwarzbeck | NSLK 8127 | 8127-473 | 03/10/2015 |
| EMI Test Receiver | Rohde & Schwarz | ESHS 30 | 838550/003 | 11/02/2015 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100111 | 06/30/2015 |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP

TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.10:2009.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

TEST RESULTS

Since the EUT is powered by DC Source, this test item is not applicable.