# Application for FCC Certification
On behalf of

Hisense Electric Co., Ltd.

Product Name: NETWORK MEDIA PLAYER

Model No.: GX1200V

FCC ID: W9HLCDX0006

Prepared For : Hisense Electric Co., Ltd.
No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China

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Report No. : ACI-F12173
Date of Test : Nov. 01 – Nov. 05, 2012
Date of Report : Nov. 06, 2012

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# TEST REPORT FOR FCC CERTIFICATE

| | | |
|---|---|---|
| Applicant | : | Hisense Electric Co., Ltd. |
| Manufacturer | : | Hisense Electric Co., Ltd. |
| EUT Description | : | NETWORK MEDIA PLAYER |
| | | (A) Model No. : GX1200V |
| | | (B) Test Voltage : AC 120V/60Hz |

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2011*
*AND ANSI C63.4-2003*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: GX1200V), which was tested on Nov. 01 – Nov. 05, 2012 is technically compliance with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

***The test results for EUT's other function are contained in No. F12170, a Verification report.***

Date of Test : Nov. 01 – Nov. 05, 2012 Date of Report : Nov. 06, 2012

Producer : Kathy Wang
KATHY WANG / Assistant

Review : Dio Yang
DIO YANG / Assistant Manager

AUDIX® For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory : Sammy Chen
Authorized Signature EMC SAMMIY CHEN/ Deputy Manager

# 1 SUMMARY OF STANDARDS AND RESULTS

## 1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

| Description / Test Item | Test Standard | Results | Meets Limit |
|---|---|---|---|
| **EMISSION** | | | |
| Conducted Emission | FCC RULES AND REGULATIONS PART 15 SUBPART C October 2011 AND ANSI C63.4:2003 AND KDB558074 | Pass | 15.207 |
| Radiated Emission | FCC RULES AND REGULATIONS PART 15 SUBPART C October 2011 AND ANSI C63.4:2003 AND KDB558074 | Pass | 15.209(a) 15.205(a)(c) |
| 6 dB Bandwidth Measurement | FCC RULES AND REGULATIONS PART 15 SUBPART C October 2011 AND ANSI C63.4:2003 AND KDB558074 | Pass | 15.247(a)(2) |
| Maximum Peak Output Power Measurement | FCC RULES AND REGULATIONS PART 15 SUBPART C October 2011 AND ANSI C63.4:2003 AND KDB558074 | Pass | 15.247(b)(3) |
| Emission Limitations Measurement | FCC RULES AND REGULATIONS PART 15 SUBPART C October 2011 AND ANSI C63.4:2003 AND KDB558074 | Pass | 15.247(d) |
| Band Edge Measurement | FCC RULES AND REGULATIONS PART 15 SUBPART C October 2011 AND ANSI C63.4:2003 AND KDB558074 | Pass | 15.247(d) |
| Power Spectral Density Measurement | FCC RULES AND REGULATIONS PART 15 SUBPART C October 2011 AND ANSI C63.4:2003 AND KDB558074 | Pass | 15.247(e) |

# 2 GENERAL INFORMATION

## 2.1 Description of Equipment Under Test

| | | |
|---|---|---|
| Description | : | NETWORK MEDIA PLAYER |
| Type of EUT | | ☐ Production ☑ Pre-product ☐ Pro-type |
| Model Number | : | GX1200V |
| Radio Tech | : | IEEE 802.11b/g/n (2.4GHz) |
| Freq. Band | : | 2412MHz ~ 2462MHz (Ch1-Ch11) for 802.11b/g<br>2412MHz ~ 2462MHz (Ch1-Ch11) for 802.11n 20MHz Band<br>2422MHz ~ 2452MHz (Ch3-Ch9) for 802.11n 40MHz Band |
| Tested Freq. | : | for 802.11b/g/n HT20<br>2412MHz (Ch1), 2437MHz (Ch6), 2462MHz (Ch11)<br>for 802.11n HT40<br>2422MHz (Ch3), 2437MHz (Ch6), 2452MHz (Ch9) |
| Modulation | : | DSSS for 802.11b<br>OFDM for 802.11g/n |
| Transmit data rate | : | 802.11b: 1, 2, 5.5, 11 Mbps<br>802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>802.11n HT20:<br>(MCS0-MCS7) 6.5, 13, 19.5, 26, 39, 52, 58.5, 65Mbps<br>802.11n HT40:<br>(MCS0-MCS7) 13.5, 27, 40.5, 54, 81, 108, 121.5, 135 Mbps<br>After testing, the highest peak output power of the EUT was at 1 Mbps in 802.11b mode, 24 Mbps in 802.11g mode, 6.5 Mbps in 802.11n HT20 mode and 13.5 Mbps in 802.11n HT40 mode.<br>So data rate mentioned above were representative selected to test in this report. |
| Antenna Gain | : | 1.26 dBi |
| Adapter | : | Manufacturer : HGPOWER<br>Model Number : AD63C<br>Input : 100-240V~, 50/60Hz 0.8A<br>Output : 12V ⎓ 2.0A<br>Output Cable : Unshielded, Undetachable, 1.8m |

| | | |
|---|---|---|
| Applicant | : | Hisense Electric Co., Ltd.<br>No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China |
| Manufacturer | : | Hisense Electric Co., Ltd.<br>No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China |

## 2.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on Mar 16, 2012 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3 F 34 Bldg 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai 200233, China

FCC registration Number : 91789

Accredited by NVLAP, Lab Code : 200371-0

## 2.3 Measurement Uncertainty

Conducted Emission Expanded Uncertainty : U = 3.42 dB
Radiated Emission Expanded Uncertainty (30-200MHz):
U = 4.14dB (Horizontal)
U = 4.28dB (Vertical)
Radiated Emission Expanded Uncertainty (200M-1GHz):
U = 4.18dB (Horizontal)
U = 4.26dB (Vertical)
Radiated Emission Expanded Uncertainty (Above 1GHz):
U= 4.50 dB (Horizontal)
U= 4.16 dB (Vertical)
6 dB Bandwidth Expanded Uncertainty : U = 0.05 kHz
Maximum Peak Output Power Expanded Uncertainty: U = 0.30 dBm
Emission Limitations Expanded Uncertainty : U = 0.15 dB
Band Edge Expanded Uncertainty : U = 0.15 dB
Power Spectral Density Expanded Uncertainty : U = 0.15 dB

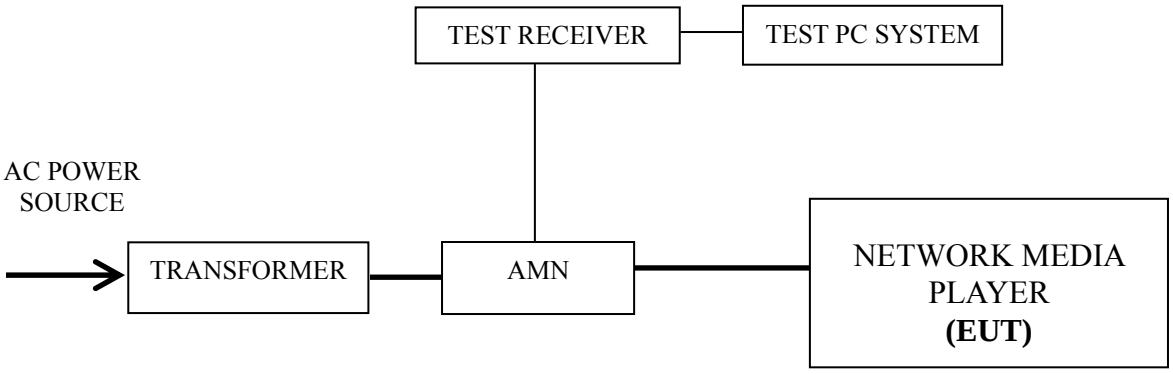
# 3 CONDUCTED EMISSION TEST

## 3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | R&S | ESCI | 100841 | Mar 22, 2012 | Mar 22, 2013 |
| 2. | Artificial Mains Network (AMN) | R&S | ESH2-Z5 | 843890/011 | Feb 13, 2012 | Feb 13, 2013 |
| 3. | 50Ω Coaxial Switch | Anritsu | MP59B | 6200426389 | Sep 18, 2012 | Mar 18, 2013 |
| 4. | Software | Audix | E3 | SET00200 9804M592 | -- | -- |

## 3.2 Block Diagram of Test Setup




—— : Signal Line
▬ : Power Line

## 3.3 Conducted Emission Limits [FCC Part 15 Subpart C 15.207]

| Frequency Range (MHz) | Conducted Limit (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15 ~ 0.5 | 66~56* | 56~46* |
| 0.5 ~ 5 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |
| NOTE – *Decreases with the logarithm of the frequency. | | |

## 3.4 Test Configuration

The EUT (listed in Sec.2.1) was installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

## 3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipments and the EUT.

3.5.3 Set the EUT on the test mode (Transmitting), and then test.

## 3.6 Test Procedures

The EUT was connected to the power mains through an Artificial Mains Network (AMN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of R&S Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

## 3.7 Test Results

**< PASS >**

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

NOTE 1 – Factor = Cable Loss + AMN Factor.
NOTE 2 – Emission Level = Meter Reading + Factor.
NOTE 3 – "QP" means "Quasi-Peak" values, "AV" means "Average" values.
NOTE 4 – The worst emission is detected at 23.880 MHz (Average Value) with corrected signal level of 41.35 dB (μV) (limit is 50.00 dB (μV)), when the Line of the EUT is connected to AMN.

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ | |
| Model No. | : | GX1200V | Humidity | : | 44%RH |
| Test Mode | : | Transmitting | Date of Test | : | Nov. 05, 2012 |

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| Line | 0.152 | 42.99 | 0.23 | 43.22 | 65.90 | 22.68 | QP |
| | 0.179 | 47.49 | 0.25 | 47.74 | 64.54 | 16.80 | |
| | 0.580 | 38.03 | 0.30 | 38.33 | 56.00 | 17.67 | |
| | 2.267 | 27.95 | 0.40 | 28.35 | 56.00 | 27.65 | |
| | 6.955 | 29.12 | 0.66 | 29.78 | 60.00 | 30.22 | |
| | 23.880 | 41.88 | 1.15 | 43.03 | 60.00 | 16.97 | |
| | 0.152 | 20.40 | 0.23 | 20.63 | 55.90 | 35.27 | AV |
| | 0.179 | 31.79 | 0.25 | 32.04 | 54.54 | 22.50 | |
| | 0.580 | 25.30 | 0.30 | 25.60 | 46.00 | 20.40 | |
| | 2.267 | 19.20 | 0.40 | 19.60 | 46.00 | 26.40 | |
| | 6.955 | 22.40 | 0.66 | 23.06 | 50.00 | 26.94 | |
| | **23.880** | **40.20** | **1.15** | **41.35** | **50.00** | **8.65** | |
| Neutral | 0.150 | 46.76 | 0.13 | 46.89 | 66.00 | 19.11 | QP |
| | 0.177 | 47.53 | 0.12 | 47.65 | 64.62 | 16.97 | |
| | 0.579 | 38.12 | 0.18 | 38.30 | 56.00 | 17.70 | |
| | 2.289 | 27.88 | 0.19 | 28.07 | 56.00 | 27.93 | |
| | 9.209 | 30.03 | 0.50 | 30.53 | 60.00 | 29.47 | |
| | 27.740 | 39.65 | 1.11 | 40.76 | 60.00 | 19.24 | |
| | 0.150 | 20.70 | 0.13 | 20.83 | 56.00 | 35.17 | AV |
| | 0.177 | 30.80 | 0.12 | 30.92 | 54.62 | 23.70 | |
| | 0.579 | 25.40 | 0.18 | 25.58 | 46.00 | 20.42 | |
| | 2.289 | 18.30 | 0.19 | 18.49 | 46.00 | 27.51 | |
| | 9.209 | 23.70 | 0.50 | 24.20 | 50.00 | 25.80 | |
| | 27.740 | 34.10 | 1.11 | 35.21 | 50.00 | 14.79 | |

TEST ENGINEER: JOE YE

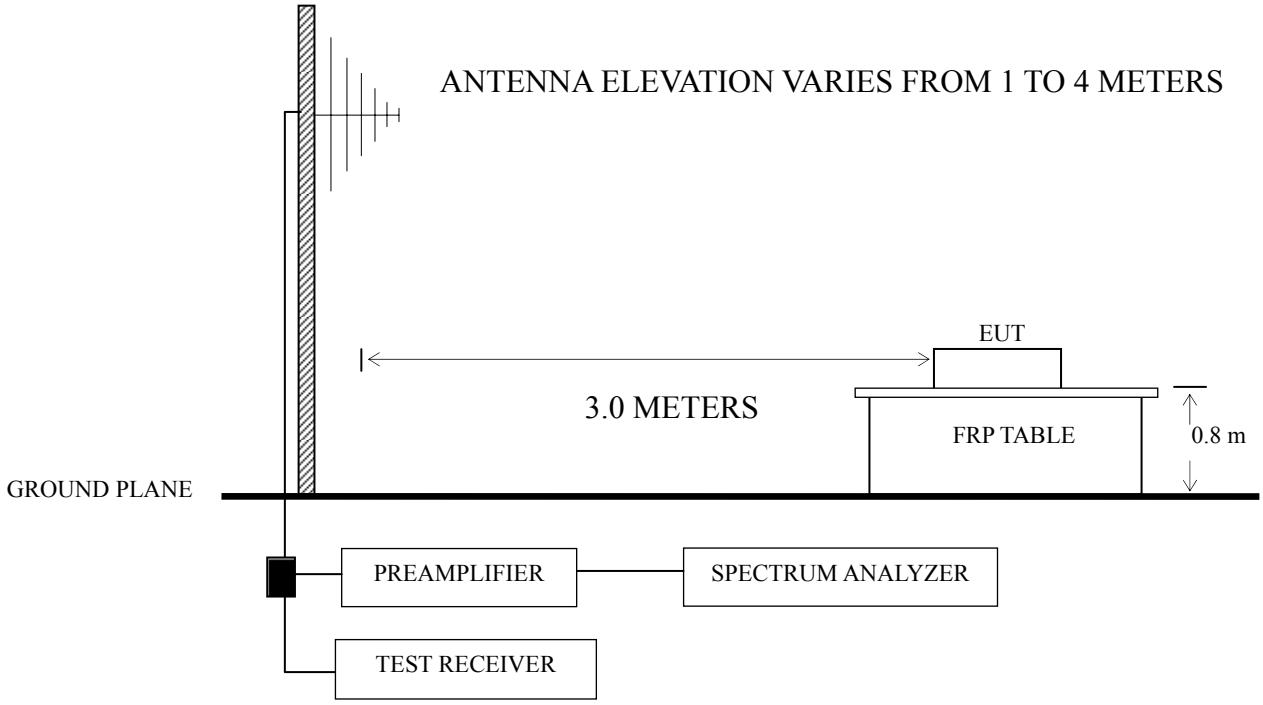
# 4 RADIATED EMISSION TEST

## 4.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Preamplifier | Agilent | 8447D | 2944A10548 | Sep 18, 2012 | Mar 18, 2013 |
| 2. | Preamplifier | HP | 8449B | 3008A00864 | Apr 29, 2012 | Apr 29, 2013 |
| 3. | Spectrum Analyzer | Agilent | E7405A | MY45106600 | Mar 22, 2012 | Mar 22, 2013 |
| 4. | Test Receiver | R&S | ESVS10 | 844594/001 | Mar 22, 2012 | Mar 22, 2013 |
| 5. | Bi-log Antenna | TESEQ | CBL6112D | 23193 | May 03, 2012 | May 03, 2013 |
| 6. | Horn Antenna | EMCO | 3115 | 9607-4878 | May 03, 2012 | May 03, 2013 |
| 7. | Horn Antenna | EMCO | 3116 | 00062643 | Jul 21, 2012 | Jul 21, 2013 |
| 8. | 50Ω Coaxial Switch | Anritsu | MP59B | 6200426390 | Sep 18, 2012 | Mar 18, 2013 |
| 9. | Terminator (used for band-edge Cabinet Emission) | Audix | 50 Ohm | 001 | Mar 22, 2012 | Mar 22, 2013 |
| 10. | Software | Audix | E3 | SET00200 9912M295-2 | -- | -- |

## 4.2 Block Diagram of Test Setup




■ : 50 ohm Coaxial Switch

## 4.3 Radiated Emission Limit [FCC Part 15 Subpart C 15.209]

| Frequency (MHz) | Distance (m) | Field strength limits (μV/m) | |
|---|---|---|---|
| | | (μV/m) | dB(μV/m) |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| Above 960 | 3 | 500 | 54.0 |

NOTE 1 - Emission Level dB (μV/m) = 20 log Emission Level (μV/m)
NOTE 2 - The tighter limit applies at the band edges.
NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.
NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

## 4.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec.2.2) were installed as shown on Sec.3.2 to meet FCC requirements and operating in a manner that tends to maximize its emission level in a normal application.

## 4.5 Operating Condition of EUT

4.5.1 Setup the EUT as shown in Sec. 3.2.

4.5.2 Turn on the power of all equipment.

4.5.3 Turn the EUT on the test mode, and then test.

## 4.6 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable that is 0.8 meter above ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz from 30MHz to 1000MHz.

The bandwidth of the VBW was set at 1MHz and RBW was set at 1MHz for peak emission measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emission above 1GHz for Spectrum Agilent E7405A.

The frequency range from 30 MHz to 25 GHz (Up to $10^{th}$ harmonics from fundamental frequency) was checked.

The EUT was tested under the following test modes:

| Mode | Operation | Channel |
|---|---|---|
| 1. | Transmitting | 01 |
| 2. | | 06 |
| 3. | | 11 |
| 4. | Receiving | -- |
| 5. | Transmitting Band-Edge | 01 |
| 6. | | 11 |

All the test results are listed in Sec.4.7.

## 4.7 Test Results

**<PASS>**

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

| No. | Operation | Modulation | Channel | Frequency | Data Page | |
|---|---|---|---|---|---|---|
| 1. | Transmitting | 802.11b | 01 | 2412 MHz | P15 | |
| 2. | | | 06 | 2437 MHz | P16 | |
| 3. | | | 11 | 2462 MHz | P17 | |
| 4. | | 802.11g | 01 | 2412 MHz | P18 | |
| 5. | | | 06 | 2437 MHz | P19 | |
| 6. | | | 11 | 2462 MHz | P20 | |
| 7. | | 802.11n HT20 | 01 | 2412 MHz | P21 | |
| 8. | | | 06 | 2437 MHz | P22 | |
| 9. | | | 11 | 2462 MHz | P23 | |
| 10. | | 802.11n HT40 | 03 | 2422 MHz | P24 | |
| 11. | | | 06 | 2437 MHz | P25 | |
| 12. | | | 09 | 2452 MHz | P26 | |
| 13. | | 802.11b + BT | 01 | 2412 MHz | P27 | |
| 14. | | | 06 | 2437 MHz | P28 | |
| 15. | | | 11 | 2462 MHz | P29 | |
| 16. | Receiving | -- | -- | | P30 | |
| 17. | Transmitting | Cabinet Emission | | | Restricted Frequency Bands & Band Edge | P31-32 |
| 18. | | 802.11b | 01 | 2412 MHz | | P33 |
| 19. | | | 11 | 2462 MHz | | P34-39 |
| 20. | | 802.11g | 01 | 2412 MHz | | P40 |
| 21. | | | 11 | 2462 MHz | | P41-46 |
| 22. | | 802.11n HT20 | 01 | 2412 MHz | | P47 |
| 23. | | | 11 | 2462 MHz | | P48-53 |
| 24. | | 802.11n HT40 | 03 | 2422 MHz | | P54 |
| 25. | | | 09 | 2452 MHz | | P55-60 |
| 26. | | 802.11b + BT | 01 | 2412 MHz | | P61 |
| 27. | | | 11 | 2462 MHz | | P62-67 |

NOTE 1 – Level = Read Level + Antenna Factor + Cable Loss (<1GHz)
NOTE 2 – Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor (>1GHz)
NOTE 3 – For WiFi and BT simultaneous condition, we evaluated all the combination of WiFi and BT mode, and selected the worst emission mode: **802 11b+BT** to record in the report.
NOTE 4 – All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.
For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ |
| Model No. | : | GX1200V | Humidity : | 45%RH |
| Test Mode | : | 802.11b Transmitting Ch01 | Date of Test : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 148.34 | 18.76 | 10.15 | 1.63 | -- | 30.54 | 43.50 | 12.96 | QP |
| | 352.04 | 14.38 | 14.83 | 2.63 | -- | 31.84 | 46.00 | 14.16 | |
| | 450.98 | 17.84 | 16.90 | 2.84 | -- | 37.58 | 46.00 | 8.42 | |
| | 749.74 | 9.95 | 18.80 | 3.58 | -- | 32.33 | 46.00 | 13.67 | |
| | 853.53 | 11.40 | 20.90 | 4.08 | -- | 36.38 | 46.00 | 9.62 | |
| | 994.18 | 8.97 | 21.45 | 4.83 | -- | 35.25 | 54.00 | 18.75 | |
| | 1207.00 | 56.11 | 24.56 | 5.15 | 37.72 | 48.10 | 74.00 | 25.90 | PK |
| | 1999.00 | 51.76 | 31.00 | 6.20 | 36.10 | 52.86 | 74.00 | 21.14 | |
| | 4824.00 | 54.23 | 30.03 | 9.07 | 35.05 | 58.28 | 74.00 | 15.72 | |
| | 7236.00 | 51.58 | 35.05 | 10.63 | 34.53 | 62.73 | 74.00 | 11.27 | |
| | 4824.00 | 48.53 | 30.03 | 9.07 | 35.05 | 52.58 | 54.00 | 1.42 | AV |
| | **7236.00** | **41.82** | **35.05** | **10.63** | **34.53** | **52.97** | **54.00** | **1.03** | |
| Vertical | 36.79 | 13.49 | 14.92 | 0.74 | -- | 29.15 | 40.00 | 10.85 | QP |
| | 80.44 | 15.67 | 6.84 | 1.08 | -- | 23.59 | 40.00 | 16.41 | |
| | 256.98 | 11.72 | 12.30 | 2.25 | -- | 26.27 | 46.00 | 19.73 | |
| | 450.98 | 8.87 | 16.90 | 2.84 | -- | 28.61 | 46.00 | 17.39 | |
| | 599.39 | 13.20 | 18.30 | 3.22 | -- | 34.72 | 46.00 | 11.28 | |
| | 829.28 | 11.35 | 20.57 | 3.89 | -- | 35.81 | 46.00 | 10.19 | |
| | 1405.00 | 54.70 | 25.35 | 5.59 | 37.18 | 48.46 | 74.00 | 25.54 | PK |
| | 1999.00 | 51.76 | 31.00 | 6.20 | 36.10 | 52.86 | 74.00 | 21.14 | |
| | 4824.00 | 54.73 | 30.03 | 9.07 | 35.05 | 58.78 | 74.00 | 15.22 | |
| | 7236.00 | 52.35 | 35.05 | 10.63 | 34.53 | 63.50 | 74.00 | 10.50 | |
| | 4824.00 | 48.50 | 30.03 | 9.07 | 35.04 | 52.56 | 54.00 | 1.44 | AV |
| | **7236.00** | **42.30** | **35.05** | **10.63** | **34.53** | **53.45** | **54.00** | **0.55** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ | |
| Model No. | : | GX1200V | Humidity : | 45%RH | |
| Test Mode | : | 802.11b Transmitting Ch06 | Date of Test : | Nov 05, 2012 | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 82.38 | 15.72 | 7.10 | 1.11 | -- | 23.93 | 40.00 | 16.07 | QP |
| | 148.50 | 23.80 | 10.15 | 1.63 | -- | 35.58 | 43.50 | 7.92 | |
| | 213.33 | 21.71 | 7.60 | 2.01 | -- | 31.32 | 43.50 | 12.18 | |
| | 358.83 | 14.53 | 14.98 | 2.63 | -- | 32.14 | 46.00 | 13.86 | |
| | 446.13 | 17.21 | 17.07 | 2.82 | -- | 37.10 | 46.00 | 8.90 | |
| | 647.89 | 10.08 | 18.40 | 3.38 | -- | 31.86 | 46.00 | 14.14 | |
| | 1087.00 | 49.88 | 24.03 | 4.99 | 38.00 | 40.90 | 74.00 | 33.10 | PK |
| | 1294.00 | 52.87 | 24.96 | 5.39 | 37.50 | 45.72 | 74.00 | 28.28 | |
| | 4874.00 | 47.77 | 36.04 | 9.14 | 35.27 | 57.68 | 74.00 | 16.32 | |
| | 7311.00 | 49.16 | 38.03 | 9.91 | 34.73 | 62.37 | 74.00 | 11.63 | |
| | 4874.00 | 41.54 | 36.04 | 9.14 | 35.27 | 51.45 | 54.00 | 2.55 | AV |
| | **7311.00** | **39.09** | **38.03** | **9.91** | **34.73** | **52.30** | **54.00** | **1.70** | |
| Vertical | 31.94 | 12.72 | 16.50 | 0.68 | -- | 29.90 | 40.00 | 10.10 | QP |
| | 36.79 | 12.57 | 14.92 | 0.74 | -- | 28.23 | 40.00 | 11.77 | |
| | 140.58 | 23.16 | 10.30 | 1.60 | -- | 35.06 | 43.50 | 8.44 | |
| | 216.24 | 24.86 | 7.72 | 2.03 | -- | 34.61 | 46.00 | 11.39 | |
| | 334.58 | 20.22 | 14.60 | 2.60 | -- | 37.42 | 46.00 | 8.58 | |
| | 445.49 | 16.20 | 17.15 | 2.82 | -- | 36.17 | 46.00 | 9.83 | |
| | 1537.00 | 58.61 | 26.01 | 5.64 | 36.82 | 53.44 | 74.00 | 20.56 | PK |
| | 1799.00 | 54.08 | 29.11 | 6.15 | 36.35 | 52.99 | 74.00 | 21.01 | |
| | 4874.00 | 48.37 | 36.04 | 9.14 | 35.27 | 58.28 | 74.00 | 15.72 | |
| | 7311.00 | 48.86 | 38.03 | 9.91 | 34.73 | 62.07 | 74.00 | 11.93 | |
| | 4874.00 | 42.09 | 36.04 | 9.14 | 35.27 | 52.00 | 54.00 | 2.00 | AV |
| | **7311.00** | **39.58** | **38.03** | **9.91** | **34.73** | **52.79** | **54.00** | **1.21** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ |
| Model No. | : | GX1200V | Humidity : | 45%RH |
| Test Mode | : | 802.11b Transmitting Ch11 | Date of Test : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 164.83 | 19.49 | 8.40 | 1.75 | -- | 29.64 | 43.50 | 13.86 | QP |
| | 300.63 | 18.46 | 12.60 | 2.55 | -- | 33.61 | 46.00 | 12.39 | |
| | 400.54 | 19.85 | 16.20 | 2.69 | -- | 38.74 | 46.00 | 7.26 | |
| | 499.48 | 16.51 | 18.10 | 2.98 | -- | 37.59 | 46.00 | 8.41 | |
| | 550.89 | 12.61 | 19.40 | 3.10 | -- | 35.11 | 46.00 | 10.89 | |
| | 669.23 | 16.16 | 19.45 | 3.44 | -- | 39.05 | 46.00 | 6.95 | |
| | 1360.00 | 54.38 | 25.20 | 5.51 | 37.31 | 47.78 | 74.00 | 26.22 | PK |
| | 2620.00 | 52.19 | 28.44 | 6.63 | 35.85 | 51.41 | 74.00 | 22.59 | |
| | 4924.00 | 55.84 | 29.76 | 9.16 | 34.99 | 59.77 | 74.00 | 14.23 | |
| | 7386.00 | 51.43 | 35.56 | 11.05 | 34.53 | 63.51 | 74.00 | 10.49 | |
| | 4924.00 | 48.77 | 29.76 | 9.16 | 34.99 | 52.70 | 54.00 | 1.30 | AV |
| | **7386.00** | **41.21** | **35.56** | **11.05** | **34.53** | **53.29** | **54.00** | **0.71** | |
| Vertical | 41.64 | 17.99 | 11.88 | 0.79 | -- | 30.66 | 40.00 | 9.34 | QP |
| | 87.23 | 19.01 | 7.74 | 1.18 | -- | 27.93 | 40.00 | 12.07 | |
| | 184.23 | 20.02 | 8.28 | 1.86 | -- | 30.16 | 43.50 | 13.34 | |
| | 279.29 | 14.65 | 12.52 | 2.40 | -- | 29.57 | 46.00 | 16.43 | |
| | 480.08 | 9.35 | 18.00 | 2.92 | -- | 30.27 | 46.00 | 15.73 | |
| | 599.39 | 14.22 | 18.30 | 3.22 | -- | 35.74 | 46.00 | 10.26 | |
| | 1207.00 | 54.86 | 24.56 | 5.15 | 37.72 | 46.85 | 74.00 | 27.15 | PK |
| | 2170.00 | 51.86 | 30.05 | 6.30 | 36.04 | 52.17 | 74.00 | 21.83 | |
| | 4924.00 | 55.29 | 29.76 | 9.16 | 34.99 | 59.22 | 74.00 | 14.78 | |
| | 7386.00 | 50.88 | 35.56 | 11.05 | 34.53 | 62.96 | 74.00 | 11.04 | |
| | 4924.00 | 48.05 | 29.76 | 9.16 | 34.99 | 51.98 | 54.00 | 2.02 | AV |
| | **7386.00** | **41.05** | **35.56** | **11.05** | **34.53** | **53.13** | **54.00** | **0.87** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ | |
| Model No. | : | GX1200V | Humidity : | 45%RH | |
| Test Mode | : | 802.11g Transmitting Ch01 | Date of Test : | Nov 05, 2012 | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 44.55 | 7.48 | 10.47 | 0.89 | -- | 18.84 | 40.00 | 21.16 | QP |
| | 105.66 | 10.83 | 11.26 | 1.90 | -- | 23.99 | 43.50 | 19.51 | |
| | 250.19 | 19.41 | 11.99 | 2.61 | -- | 34.01 | 46.00 | 11.99 | |
| | 375.32 | 19.69 | 15.79 | 2.93 | -- | 38.41 | 46.00 | 7.59 | |
| | 699.30 | 11.09 | 19.50 | 3.68 | -- | 34.27 | 46.00 | 11.73 | |
| | 898.15 | 11.49 | 20.31 | 4.89 | -- | 36.69 | 46.00 | 9.31 | |
| | 1207.00 | 56.11 | 24.56 | 5.15 | 37.72 | 48.10 | 74.00 | 25.90 | PK |
| | 1801.00 | 57.08 | 29.17 | 6.15 | 36.34 | 56.06 | 74.00 | 17.94 | |
| | 4824.00 | 54.23 | 30.03 | 9.07 | 35.05 | 58.28 | 74.00 | 15.72 | |
| | 7236.00 | 51.58 | 35.05 | 10.63 | 34.53 | 62.73 | 74.00 | 11.27 | |
| | 1801.00 | 40.65 | 29.17 | 6.15 | 36.34 | 39.63 | 54.00 | 14.37 | AV |
| | 4824.00 | 40.23 | 30.03 | 9.07 | 35.05 | 44.28 | 54.00 | 9.72 | |
| | **7236.00** | **39.73** | **35.05** | **10.63** | **34.53** | **50.88** | **54.00** | **3.12** | |
| Vertical | 43.58 | 20.89 | 10.86 | 0.89 | -- | 32.64 | 40.00 | 7.36 | QP |
| | 104.69 | 14.32 | 11.27 | 1.89 | -- | 27.48 | 43.50 | 16.02 | |
| | 232.73 | 14.57 | 11.19 | 2.55 | -- | 28.31 | 46.00 | 17.69 | |
| | 375.32 | 15.89 | 15.79 | 2.93 | -- | 34.61 | 46.00 | 11.39 | |
| | 526.64 | 10.11 | 17.76 | 3.33 | -- | 31.20 | 46.00 | 14.80 | |
| | 699.30 | 9.62 | 19.50 | 3.68 | -- | 32.80 | 46.00 | 13.20 | |
| | 1108.00 | 55.84 | 24.11 | 5.01 | 37.96 | 47.00 | 74.00 | 27.00 | PK |
| | 1792.00 | 57.87 | 29.05 | 6.15 | 36.36 | 56.71 | 74.00 | 17.29 | |
| | 4824.00 | 51.90 | 30.03 | 9.07 | 35.04 | 55.96 | 74.00 | 18.04 | |
| | 7236.00 | 56.70 | 35.05 | 10.63 | 34.53 | 67.85 | 74.00 | 6.15 | |
| | 1792.00 | 39.13 | 29.05 | 6.15 | 36.36 | 37.97 | 54.00 | 16.03 | AV |
| | 4824.00 | 38.60 | 30.03 | 9.07 | 35.04 | 42.66 | 54.00 | 11.34 | |
| | **7236.00** | **39.60** | **35.05** | **10.63** | **34.53** | **50.75** | **54.00** | **3.25** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ |
| Model No. | : | GX1200V | Humidity : | 45%RH |
| Test Mode | : | 802.11g Transmitting Ch06 | Date of Test : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 30.97 | 3.29 | 17.65 | 0.67 | -- | 21.61 | 40.00 | 18.39 | QP |
| | 135.73 | 21.14 | 10.91 | 1.57 | -- | 33.62 | 43.50 | 9.88 | |
| | 216.24 | 20.92 | 7.72 | 2.03 | -- | 30.67 | 46.00 | 15.33 | |
| | 298.69 | 15.05 | 12.52 | 2.52 | -- | 30.09 | 46.00 | 15.91 | |
| | 446.13 | 15.40 | 17.07 | 2.82 | -- | 35.29 | 46.00 | 10.71 | |
| | 594.54 | 15.91 | 18.50 | 3.20 | -- | 37.61 | 46.00 | 8.39 | |
| | 1162.00 | 51.13 | 24.35 | 5.07 | 37.83 | 42.72 | 74.00 | 31.28 | PK |
| | 1797.00 | 50.84 | 29.11 | 6.15 | 36.35 | 49.75 | 74.00 | 24.25 | |
| | 4874.00 | 47.75 | 36.04 | 9.14 | 35.27 | 57.66 | 74.00 | 16.34 | |
| | 7311.00 | 49.18 | 38.03 | 9.91 | 34.73 | 62.39 | 74.00 | 11.61 | |
| | 4874.00 | 33.67 | 36.04 | 9.14 | 35.27 | 43.58 | 54.00 | 10.42 | |
| | **7311.00** | **37.35** | **38.03** | **9.91** | **34.73** | **50.56** | **54.00** | **3.44** | |
| Vertical | 30.97 | 12.61 | 17.65 | 0.67 | -- | 30.93 | 40.00 | 9.07 | QP |
| | 36.79 | 14.46 | 14.92 | 0.74 | -- | 30.12 | 40.00 | 9.88 | |
| | 134.76 | 20.63 | 11.00 | 1.57 | -- | 33.20 | 43.50 | 10.30 | |
| | 217.21 | 24.29 | 7.83 | 2.04 | -- | 34.16 | 46.00 | 11.84 | |
| | 352.04 | 18.88 | 14.83 | 2.63 | -- | 36.34 | 46.00 | 9.66 | |
| | 447.10 | 19.06 | 17.07 | 2.82 | -- | 38.95 | 46.00 | 7.05 | |
| | 1234.00 | 50.63 | 24.70 | 5.20 | 37.65 | 42.88 | 74.00 | 31.12 | PK |
| | 1687.00 | 51.83 | 27.73 | 5.97 | 36.52 | 49.01 | 74.00 | 24.99 | |
| | 4874.00 | 44.89 | 36.04 | 9.14 | 35.27 | 54.80 | 74.00 | 19.20 | |
| | 7311.00 | 54.40 | 38.03 | 9.91 | 34.73 | 67.61 | 74.00 | 6.39 | |
| | 4874.00 | 31.83 | 36.04 | 9.14 | 35.27 | 41.74 | 54.00 | 12.26 | |
| | **7311.00** | **37.22** | **38.03** | **9.91** | **34.73** | **50.43** | **54.00** | **3.57** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ |
| Model No. | : | GX1200V | Humidity : | 45%RH |
| Test Mode | : | 802.11g Transmitting Ch11 | Date of Test : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 112.45 | 9.41 | 11.14 | 1.96 | -- | 22.51 | 43.50 | 20.99 | QP |
| | 232.73 | 11.32 | 11.19 | 2.55 | -- | 25.06 | 46.00 | 20.94 | |
| | 431.58 | 9.75 | 16.72 | 3.08 | -- | 29.55 | 46.00 | 16.45 | |
| | 700.27 | 9.47 | 19.50 | 3.68 | -- | 32.65 | 46.00 | 13.35 | |
| | 765.26 | 9.55 | 20.23 | 3.82 | -- | 33.60 | 46.00 | 12.40 | |
| | 900.09 | 10.43 | 20.30 | 5.03 | -- | 35.76 | 46.00 | 10.24 | |
| | 1099.00 | 55.85 | 24.09 | 4.99 | 37.98 | 46.95 | 74.00 | 27.05 | PK |
| | 2197.00 | 51.93 | 29.89 | 6.32 | 36.03 | 52.11 | 74.00 | 21.89 | |
| | 4924.00 | 53.87 | 29.76 | 9.16 | 34.99 | 57.80 | 74.00 | 16.20 | |
| | 7386.00 | 50.63 | 35.56 | 11.05 | 34.53 | 62.71 | 74.00 | 11.29 | |
| | 4924.00 | 40.22 | 29.76 | 9.16 | 34.99 | 44.15 | 54.00 | 9.85 | AV |
| | **7386.00** | **36.34** | **35.56** | **11.05** | **34.53** | **48.42** | **54.00** | **5.58** | |
| Vertical | 34.85 | 11.10 | 15.70 | 0.84 | -- | 27.64 | 40.00 | 12.36 | QP |
| | 104.69 | 15.91 | 11.27 | 1.89 | -- | 29.07 | 43.50 | 14.43 | |
| | 250.19 | 14.66 | 11.99 | 2.61 | -- | 29.26 | 46.00 | 16.74 | |
| | 375.32 | 14.78 | 15.79 | 2.93 | -- | 33.50 | 46.00 | 12.50 | |
| | 526.64 | 11.14 | 17.76 | 3.33 | -- | 32.23 | 46.00 | 13.77 | |
| | 749.74 | 10.17 | 20.05 | 3.80 | -- | 34.02 | 46.00 | 11.98 | |
| | 1360.00 | 54.64 | 25.20 | 5.51 | 37.31 | 48.04 | 74.00 | 25.96 | PK |
| | 3205.00 | 45.35 | 29.73 | 7.55 | 35.59 | 47.04 | 74.00 | 26.96 | |
| | 4924.00 | 51.45 | 29.76 | 9.16 | 34.99 | 55.38 | 74.00 | 18.62 | |
| | 7386.00 | 53.31 | 35.56 | 11.05 | 34.53 | 65.39 | 74.00 | 8.61 | |
| | 4924.00 | 37.83 | 29.76 | 9.16 | 34.99 | 41.76 | 54.00 | 12.24 | AV |
| | **7386.00** | **38.22** | **35.56** | **11.05** | **34.53** | **50.30** | **54.00** | **3.70** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ | |
| Model No. | : | GX1200V | Humidity : | 45%RH | |
| Test Mode | : | 802.11n HT20 Transmitting Ch01 | Date of Test : | Nov 05, 2012 | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 33.88 | 8.75 | 16.26 | 0.83 | -- | 25.84 | 40.00 | 14.16 | QP |
| | 109.54 | 13.15 | 11.19 | 1.93 | -- | 26.27 | 43.50 | 17.23 | |
| | 187.14 | 16.62 | 9.92 | 2.38 | -- | 28.92 | 43.50 | 14.58 | |
| | 281.23 | 15.69 | 13.17 | 2.70 | -- | 31.56 | 46.00 | 14.44 | |
| | 560.59 | 11.53 | 17.98 | 3.39 | -- | 32.90 | 46.00 | 13.10 | |
| | **807.94** | **12.48** | **20.58** | **3.99** | -- | **37.05** | **46.00** | **8.95** | |
| | 1306.00 | 55.02 | 25.01 | 5.39 | 37.46 | 47.96 | 74.00 | 26.04 | PK |
| | 2620.00 | 52.19 | 28.44 | 6.63 | 35.85 | 51.41 | 74.00 | 22.59 | |
| | 4824.00 | 44.87 | 30.03 | 9.07 | 35.05 | 48.92 | 74.00 | 25.08 | |
| | 7236.00 | 47.32 | 35.05 | 10.63 | 34.53 | 58.47 | 74.00 | 15.53 | |
| | 4824.00 | 30.54 | 30.03 | 9.07 | 35.05 | 34.59 | 54.00 | 19.41 | AV |
| | 7236.00 | 33.65 | 35.05 | 10.63 | 34.53 | 44.80 | 54.00 | 9.20 | |
| Vertical | 36.79 | 10.49 | 14.57 | 0.85 | -- | 25.91 | 40.00 | 14.09 | QP |
| | 126.03 | 14.13 | 10.89 | 2.07 | -- | 27.09 | 43.50 | 16.41 | |
| | 252.13 | 14.89 | 12.09 | 2.62 | -- | 29.60 | 46.00 | 16.40 | |
| | 478.14 | 10.71 | 17.34 | 3.21 | -- | 31.26 | 46.00 | 14.74 | |
| | 683.78 | 10.71 | 19.30 | 3.66 | -- | 33.67 | 46.00 | 12.33 | |
| | 953.44 | 9.93 | 20.59 | 5.10 | -- | 35.62 | 46.00 | 10.38 | |
| | 1990.00 | 51.07 | 30.91 | 6.19 | 36.11 | 52.06 | 74.00 | 21.94 | PK |
| | 4096.00 | 43.64 | 32.36 | 8.56 | 35.36 | 49.20 | 74.00 | 24.80 | |
| | 4824.00 | 49.83 | 30.03 | 9.07 | 35.05 | 53.88 | 74.00 | 20.12 | |
| | 7236.00 | 50.55 | 35.05 | 10.63 | 34.53 | 61.70 | 74.00 | 12.30 | |
| | 4824.00 | 35.28 | 30.03 | 9.07 | 35.05 | 39.33 | 54.00 | 14.67 | AV |
| | **7236.00** | **36.48** | **35.05** | **10.63** | **34.53** | **47.63** | **54.00** | **6.37** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ |
| Model No. | : | GX1200V | Humidity : | 45%RH |
| Test Mode | : | 802.11n HT20 Transmitting Ch06 | Date of Test : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 30.97 | 3.91 | 17.65 | 0.67 | -- | 22.23 | 40.00 | 17.77 | QP |
| | 72.68 | 17.54 | 6.20 | 0.97 | -- | 24.71 | 40.00 | 15.29 | |
| | 133.79 | 22.25 | 11.22 | 1.56 | -- | 35.03 | 43.50 | 8.47 | |
| | 216.24 | 21.54 | 7.72 | 2.03 | -- | 31.29 | 46.00 | 14.71 | |
| | 339.43 | 14.03 | 14.80 | 2.61 | -- | 31.44 | 46.00 | 14.56 | |
| | **541.19** | **15.89** | **19.48** | **3.06** | -- | **38.43** | **46.00** | **7.57** | |
| | 1502.00 | 50.79 | 25.64 | 5.64 | 36.90 | 45.17 | 74.00 | 28.83 | PK |
| | 2968.00 | 46.88 | 31.77 | 35.90 | 6.49 | 49.24 | 74.00 | 24.76 | |
| | 4874.00 | 38.16 | 36.04 | 9.14 | 35.27 | 48.07 | 74.00 | 25.93 | |
| | 7311.00 | 45.12 | 38.03 | 9.91 | 34.73 | 58.33 | 74.00 | 15.67 | |
| | 4874.00 | 24.29 | 36.04 | 9.14 | 35.27 | 34.20 | 54.00 | 19.80 | AV |
| | 7311.00 | 31.46 | 38.03 | 9.91 | 34.73 | 44.67 | 54.00 | 9.33 | |
| Vertical | 31.94 | 12.27 | 16.50 | 0.68 | -- | 29.45 | 40.00 | 10.55 | QP |
| | 43.58 | 15.66 | 10.60 | 0.80 | -- | 27.06 | 40.00 | 12.94 | |
| | 71.71 | 23.57 | 6.02 | 0.95 | -- | 30.54 | 40.00 | 9.46 | |
| | 138.64 | 22.39 | 10.51 | 1.59 | -- | 34.49 | 43.50 | 9.01 | |
| | 214.30 | 24.76 | 7.60 | 2.03 | -- | 34.39 | 43.50 | 9.11 | |
| | 541.19 | 16.97 | 19.48 | 3.06 | -- | 39.51 | 46.00 | 6.49 | |
| | 1162.00 | 54.35 | 24.35 | 5.07 | 37.83 | 45.94 | 74.00 | 28.06 | PK |
| | 3640.00 | 47.30 | 32.45 | 35.75 | 7.42 | 51.42 | 74.00 | 22.58 | |
| | 4874.00 | 44.53 | 36.04 | 9.14 | 35.27 | 54.44 | 74.00 | 19.56 | |
| | 7311.00 | 47.91 | 38.03 | 9.91 | 34.73 | 61.12 | 74.00 | 12.88 | |
| | 4874.00 | 29.83 | 36.04 | 9.14 | 35.27 | 39.74 | 54.00 | 14.26 | AV |
| | **7311.00** | **34.48** | **38.03** | **9.91** | **34.73** | **47.69** | **54.00** | **6.31** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ | |
| Model No. | : | GX1200V | Humidity : | 45%RH | |
| Test Mode | : | 802.11n HT20 Transmitting Ch11 | Date of Test : | Nov 05, 2012 | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 109.54 | 11.91 | 11.19 | 1.93 | -- | 25.03 | 43.50 | 18.47 | QP |
| | 187.14 | 17.37 | 9.92 | 2.38 | -- | 29.67 | 43.50 | 13.83 | |
| | 225.94 | 15.72 | 10.88 | 2.52 | -- | 29.12 | 46.00 | 16.88 | |
| | 337.49 | 13.47 | 14.74 | 2.85 | -- | 31.06 | 46.00 | 14.94 | |
| | **793.39** | **12.84** | **20.54** | **3.88** | **--** | **37.26** | **46.00** | **8.74** | |
| | 989.33 | 10.60 | 20.74 | 5.18 | -- | 36.52 | 54.00 | 17.48 | |
| | 1405.00 | 54.70 | 25.35 | 5.59 | 37.18 | 48.46 | 74.00 | 25.54 | PK |
| | 3628.00 | 44.63 | 31.31 | 8.29 | 35.47 | 48.76 | 74.00 | 25.24 | |
| | 4924.00 | 45.09 | 29.76 | 9.16 | 34.99 | 49.02 | 74.00 | 24.98 | |
| | 7386.00 | 47.82 | 35.56 | 11.05 | 34.53 | 59.90 | 74.00 | 14.10 | |
| | 4924.00 | 31.43 | 29.76 | 9.16 | 34.99 | 35.36 | 54.00 | 18.64 | AV |
| | 7386.00 | 32.99 | 35.56 | 11.05 | 34.53 | 45.07 | 54.00 | 8.93 | |
| Vertical | 53.28 | 15.43 | 8.70 | 1.01 | -- | 25.14 | 40.00 | 14.86 | QP |
| | 94.99 | 14.73 | 11.18 | 1.80 | -- | 27.71 | 43.50 | 15.79 | |
| | 187.14 | 17.12 | 9.92 | 2.38 | -- | 29.42 | 43.50 | 14.08 | |
| | 337.49 | 11.97 | 14.74 | 2.85 | -- | 29.56 | 46.00 | 16.44 | |
| | 400.54 | 13.33 | 16.30 | 2.99 | -- | 32.62 | 46.00 | 13.38 | |
| | 525.67 | 14.02 | 17.76 | 3.31 | -- | 35.09 | 46.00 | 10.91 | |
| | 1396.00 | 53.01 | 25.32 | 5.59 | 37.21 | 46.71 | 74.00 | 27.29 | PK |
| | 3025.00 | 45.98 | 29.00 | 7.11 | 35.66 | 46.43 | 74.00 | 27.57 | |
| | 4924.00 | 50.31 | 29.76 | 9.16 | 34.99 | 54.24 | 74.00 | 19.76 | |
| | 7386.00 | 51.64 | 35.56 | 11.05 | 34.53 | 63.72 | 74.00 | 10.28 | |
| | 4924.00 | 36.65 | 29.76 | 9.16 | 34.99 | 40.58 | 54.00 | 13.42 | AV |
| | **7386.00** | **36.84** | **35.56** | **11.05** | **34.53** | **48.92** | **54.00** | **5.08** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ |
| Model No. | : | GX1200V | Humidity : | 45%RH |
| Test Mode | : | 802.11n HT40 Transmitting Ch03 | Date of Test : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 145.43 | 11.55 | 10.50 | 2.20 | -- | 24.25 | 43.50 | 19.25 | QP |
| | 252.13 | 13.57 | 12.09 | 2.62 | -- | 28.28 | 46.00 | 17.72 | |
| | 363.68 | 14.11 | 15.49 | 2.91 | -- | 32.51 | 46.00 | 13.49 | |
| | 596.48 | 9.96 | 18.19 | 3.45 | -- | 31.60 | 46.00 | 14.40 | |
| | 683.78 | 12.62 | 19.30 | 3.66 | -- | 35.58 | 46.00 | 10.42 | |
| | **807.94** | **13.15** | **20.58** | **3.99** | -- | **37.72** | **46.00** | **8.28** | |
| | 1099.00 | 55.85 | 24.09 | 4.99 | 37.98 | 46.95 | 74.00 | 27.05 | PK |
| | 2197.00 | 51.93 | 29.89 | 6.32 | 36.03 | 52.11 | 74.00 | 21.89 | |
| | 4844.00 | 43.78 | 29.96 | 9.11 | 35.03 | 47.82 | 74.00 | 26.18 | |
| | 7266.00 | 46.80 | 35.12 | 10.63 | 34.53 | 58.02 | 74.00 | 15.98 | |
| | 4844.00 | 30.33 | 29.96 | 9.11 | 35.03 | 34.37 | 54.00 | 19.63 | AV |
| | 7266.00 | 33.61 | 35.12 | 10.63 | 34.53 | 44.83 | 54.00 | 9.17 | |
| Vertical | 32.91 | 13.24 | 16.79 | 0.82 | -- | 30.85 | 40.00 | 9.15 | QP |
| | 70.74 | 16.94 | 9.93 | 1.43 | -- | 28.30 | 40.00 | 11.70 | |
| | 252.13 | 12.15 | 12.09 | 2.62 | -- | 26.86 | 46.00 | 19.14 | |
| | 361.74 | 15.52 | 15.45 | 2.91 | -- | 33.88 | 46.00 | 12.12 | |
| | 683.78 | 8.95 | 19.30 | 3.66 | -- | 31.91 | 46.00 | 14.09 | |
| | 846.74 | 10.53 | 20.46 | 4.34 | -- | 35.33 | 46.00 | 10.67 | |
| | 1306.00 | 54.13 | 25.01 | 5.39 | 37.46 | 47.07 | 74.00 | 26.93 | PK |
| | 2053.00 | 50.87 | 30.72 | 6.22 | 36.08 | 51.73 | 74.00 | 22.27 | |
| | 4844.00 | 49.73 | 29.96 | 9.11 | 35.03 | 53.77 | 74.00 | 20.23 | |
| | 7266.00 | 48.97 | 35.12 | 10.63 | 34.53 | 60.19 | 74.00 | 13.81 | |
| | 4844.00 | 35.38 | 29.96 | 9.11 | 35.03 | 39.42 | 54.00 | 14.58 | AV |
| | **7266.00** | **34.71** | **35.12** | **10.63** | **34.53** | **45.93** | **54.00** | **8.07** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ |
| Model No. | : | GX1200V | Humidity : | 45%RH |
| Test Mode | : | 802.11n HT40 Transmitting Ch06 | Date of Test : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 30.97 | 3.92 | 17.65 | 0.67 | 0.00 | 22.24 | 40.00 | 17.76 | QP |
| | 72.68 | 11.22 | 6.20 | 0.97 | 0.00 | 18.39 | 40.00 | 21.61 | |
| | 133.79 | 21.31 | 11.22 | 1.56 | 0.00 | 34.09 | 43.50 | 9.41 | |
| | 179.38 | 20.55 | 8.22 | 1.83 | 0.00 | 30.60 | 43.50 | 12.90 | |
| | 268.62 | 17.52 | 12.67 | 2.32 | 0.00 | 32.51 | 46.00 | 13.49 | |
| | **405.39** | **20.23** | **16.25** | **2.71** | **0.00** | **39.19** | **46.00** | **6.81** | |
| | 1604.00 | 50.43 | 26.71 | 5.66 | 36.67 | 46.13 | 74.00 | 27.87 | PK |
| | 3808.00 | 45.87 | 32.89 | 35.73 | 7.75 | 50.78 | 74.00 | 23.22 | |
| | 4874.00 | 36.42 | 36.04 | 9.14 | 35.27 | 46.33 | 74.00 | 27.67 | |
| | 7311.00 | 44.49 | 38.03 | 9.91 | 34.73 | 57.70 | 74.00 | 16.30 | |
| | 4874.00 | 23.95 | 36.04 | 9.14 | 35.27 | 33.86 | 54.00 | 20.14 | AV |
| | 7311.00 | 31.21 | 38.03 | 9.91 | 34.73 | 44.42 | 54.00 | 9.58 | |
| Vertical | 30.97 | 11.88 | 17.65 | 0.67 | 0.00 | 30.20 | 40.00 | 9.80 | QP |
| | 53.28 | 18.71 | 6.46 | 0.86 | 0.00 | 26.03 | 40.00 | 13.97 | |
| | 135.73 | 22.79 | 10.91 | 1.57 | 0.00 | 35.27 | 43.50 | 8.23 | |
| | 216.24 | 24.47 | 7.72 | 2.03 | 0.00 | 34.22 | 46.00 | 11.78 | |
| | 349.13 | 20.12 | 14.80 | 2.62 | 0.00 | 37.54 | 46.00 | 8.46 | |
| | **541.19** | **16.97** | **19.48** | **3.06** | **0.00** | **39.51** | **46.00** | **6.49** | |
| | 1087.00 | 54.89 | 24.03 | 4.99 | 38.00 | 45.91 | 74.00 | 28.09 | PK |
| | 3928.00 | 45.43 | 33.14 | 35.71 | 8.01 | 50.87 | 74.00 | 23.13 | |
| | 4874.00 | 43.21 | 36.04 | 9.14 | 35.27 | 53.12 | 74.00 | 20.88 | |
| | 7311.00 | 46.14 | 38.03 | 9.91 | 34.73 | 59.35 | 74.00 | 14.65 | |
| | 4874.00 | 28.92 | 36.04 | 9.14 | 35.27 | 38.83 | 54.00 | 15.17 | AV |
| | 7311.00 | 31.69 | 38.03 | 9.91 | 34.73 | 44.90 | 54.00 | 9.10 | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ |
| Model No. | : | GX1200V | Humidity : | 45%RH |
| Test Mode | : | 802.11n HT40 Transmitting Ch09 | Date of Test : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 38.73 | 6.63 | 13.40 | 0.86 | -- | 20.89 | 40.00 | 19.11 | QP |
| | 109.54 | 11.91 | 11.19 | 1.93 | -- | 25.03 | 43.50 | 18.47 | |
| | 252.13 | 15.73 | 12.09 | 2.62 | -- | 30.44 | 46.00 | 15.56 | |
| | 281.23 | 13.48 | 13.17 | 2.70 | -- | 29.35 | 46.00 | 16.65 | |
| | 526.64 | 14.90 | 17.76 | 3.33 | -- | 35.99 | 46.00 | 10.01 | |
| | 746.83 | 11.35 | 20.01 | 3.80 | -- | 35.16 | 46.00 | 10.84 | |
| | 1207.00 | 56.11 | 24.56 | 5.15 | 37.72 | 48.10 | 74.00 | 25.90 | PK |
| | 3592.00 | 44.47 | 31.15 | 8.27 | 35.48 | 48.41 | 74.00 | 25.59 | |
| | 4904.00 | 43.32 | 29.83 | 9.11 | 35.00 | 47.26 | 74.00 | 26.74 | |
| | 7356.00 | 47.12 | 35.42 | 10.80 | 34.53 | 58.81 | 74.00 | 15.19 | |
| | 4904.00 | 29.54 | 29.83 | 9.11 | 35.00 | 33.48 | 54.00 | 20.52 | AV |
| | **7356.00** | **32.49** | **35.42** | **10.80** | **34.53** | **44.18** | **54.00** | **9.82** | |
| Vertical | 38.73 | 13.76 | 13.40 | 0.86 | -- | 28.02 | 40.00 | 11.98 | QP |
| | 126.03 | 15.88 | 10.89 | 2.07 | -- | 28.84 | 43.50 | 14.66 | |
| | 252.13 | 14.27 | 12.09 | 2.62 | -- | 28.98 | 46.00 | 17.02 | |
| | 478.14 | 10.98 | 17.34 | 3.21 | -- | 31.53 | 46.00 | 14.47 | |
| | 683.78 | 12.51 | 19.30 | 3.66 | -- | 35.47 | 46.00 | 10.53 | |
| | 807.94 | 12.97 | 20.58 | 3.99 | -- | 37.54 | 46.00 | 8.46 | |
| | 1801.00 | 51.86 | 29.17 | 6.15 | 36.34 | 50.84 | 74.00 | 23.16 | PK |
| | 3331.00 | 44.87 | 30.23 | 7.89 | 35.55 | 47.44 | 74.00 | 26.56 | |
| | 4904.00 | 49.38 | 29.83 | 9.11 | 35.00 | 53.32 | 74.00 | 20.68 | |
| | 7356.00 | 49.50 | 35.42 | 10.80 | 34.53 | 61.19 | 74.00 | 12.81 | |
| | 4904.00 | 35.77 | 29.83 | 9.11 | 35.00 | 39.71 | 54.00 | 14.29 | AV |
| | **7356.00** | **35.25** | **35.42** | **10.80** | **34.53** | **46.94** | **54.00** | **7.06** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ | |
| Model No. | : | GX1200V | Humidity | : | 45%RH |
| Test Mode | : | 802.11b Ch01 + BT Ch00 Transmitting | Date of Test | : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 58.13 | 23.09 | 5.58 | 0.88 | -- | 29.55 | 40.00 | 10.45 | QP |
| | 106.63 | 24.27 | 11.50 | 1.39 | -- | 37.16 | 43.50 | 6.34 | |
| | 201.69 | 27.92 | 8.07 | 1.95 | -- | 37.94 | 43.50 | 5.56 | |
| | 337.49 | 21.27 | 14.70 | 2.61 | -- | 38.58 | 46.00 | 7.42 | |
| | 521.79 | 16.34 | 18.32 | 3.03 | -- | 37.69 | 46.00 | 8.31 | |
| | 906.88 | 14.17 | 19.30 | 4.55 | -- | 38.02 | 46.00 | 7.98 | |
| | 1810.00 | 50.99 | 29.23 | 6.23 | 36.33 | 50.12 | 74.00 | 23.88 | PK |
| | 2188.00 | 54.72 | 29.93 | 6.67 | 36.03 | 55.29 | 74.00 | 18.71 | |
| | 4816.00 | 54.73 | 30.03 | 9.09 | 35.05 | 58.80 | 74.00 | 15.20 | |
| | 7237.00 | 53.00 | 35.05 | 9.83 | 34.53 | 63.35 | 74.00 | 10.65 | |
| | 2188.00 | 34.57 | 29.93 | 6.67 | 36.03 | 35.14 | 54.00 | 18.86 | AV |
| | **4816.00** | **48.87** | **30.03** | **9.09** | **35.05** | **52.94** | **54.00** | **1.06** | |
| | 7237.00 | 42.50 | 35.05 | 9.83 | 34.53 | 52.85 | 54.00 | 1.15 | |
| Vertical | 36.79 | 14.19 | 14.92 | 0.74 | -- | 29.85 | 40.00 | 10.15 | QP |
| | 101.78 | 19.07 | 10.76 | 1.35 | -- | 31.18 | 43.50 | 12.32 | |
| | 135.73 | 22.45 | 10.91 | 1.57 | -- | 34.93 | 43.50 | 8.57 | |
| | 201.69 | 23.24 | 8.07 | 1.95 | -- | 33.26 | 43.50 | 10.24 | |
| | 465.53 | 9.18 | 17.50 | 2.88 | -- | 29.56 | 46.00 | 16.44 | |
| | 803.09 | 11.13 | 19.93 | 3.70 | -- | 34.76 | 46.00 | 11.24 | |
| | 1666.00 | 65.82 | 27.49 | 6.03 | 36.56 | 62.78 | 74.00 | 11.22 | PK |
| | 2206.00 | 57.08 | 29.81 | 6.67 | 36.02 | 57.54 | 74.00 | 16.46 | |
| | 4816.00 | 54.66 | 30.03 | 9.09 | 35.05 | 58.73 | 74.00 | 15.27 | |
| | 7237.00 | 53.45 | 35.05 | 9.83 | 34.53 | 63.80 | 74.00 | 10.20 | |
| | 1666.00 | 49.45 | 27.49 | 6.03 | 36.56 | 46.41 | 54.00 | 7.59 | AV |
| | 2206.00 | 36.57 | 29.81 | 6.67 | 36.02 | 37.03 | 54.00 | 16.97 | |
| | 4816.00 | 48.59 | 30.03 | 9.09 | 35.05 | 52.66 | 54.00 | 1.34 | |
| | **7237.00** | **43.07** | **35.05** | **9.83** | **34.53** | **53.42** | **54.00** | **0.58** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ | |
| Model No. | : | GX1200V | Humidity | : | 45%RH |
| Test Mode | : | 802.11b Ch06 + BT Ch39 Transmitting | Date of Test | : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 56.19 | 25.18 | 6.00 | 0.87 | -- | 32.05 | 40.00 | 7.95 | QP |
| | 133.79 | 23.69 | 11.22 | 1.56 | -- | 36.47 | 43.50 | 7.03 | |
| | 200.72 | 27.25 | 8.13 | 1.95 | -- | 37.33 | 43.50 | 6.17 | |
| | 252.13 | 18.82 | 12.17 | 2.22 | -- | 33.21 | 46.00 | 12.79 | |
| | 431.58 | 16.73 | 17.55 | 2.78 | -- | 37.06 | 46.00 | 8.94 | |
| | 800.18 | 9.20 | 19.80 | 3.61 | -- | 32.61 | 46.00 | 13.39 | |
| | 1702.00 | 54.23 | 27.91 | 6.06 | 36.50 | 51.70 | 74.00 | 22.30 | PK |
| | 2197.00 | 55.32 | 29.89 | 6.67 | 36.03 | 55.85 | 74.00 | 18.15 | |
| | 4852.00 | 55.47 | 29.96 | 9.14 | 35.02 | 59.55 | 74.00 | 14.45 | |
| | 7309.00 | 52.12 | 35.27 | 9.91 | 34.53 | 62.77 | 74.00 | 11.23 | |
| | 2197.00 | 36.79 | 29.89 | 6.67 | 36.03 | 37.32 | 54.00 | 16.68 | AV |
| | **4852.00** | **48.14** | **29.96** | **9.14** | **35.02** | **52.22** | **54.00** | **1.78** | |
| | 7309.00 | 41.18 | 35.27 | 9.91 | 34.53 | 51.83 | 54.00 | 2.17 | |
| Vertical | 33.88 | 7.26 | 16.12 | 0.70 | -- | 24.08 | 40.00 | 15.92 | QP |
| | 101.78 | 22.94 | 10.76 | 1.35 | -- | 35.05 | 43.50 | 8.45 | |
| | 133.79 | 22.35 | 11.22 | 1.56 | -- | 35.13 | 43.50 | 8.37 | |
| | 213.33 | 25.99 | 7.60 | 2.01 | -- | 35.60 | 43.50 | 7.90 | |
| | 502.39 | 19.06 | 18.17 | 2.98 | -- | 40.21 | 46.00 | 5.79 | |
| | 800.18 | 14.42 | 19.80 | 3.61 | -- | 37.83 | 46.00 | 8.17 | |
| | 1702.00 | 67.33 | 27.91 | 6.06 | 36.50 | 64.80 | 74.00 | 9.20 | PK |
| | 1999.00 | 56.08 | 31.00 | 6.44 | 36.10 | 57.42 | 74.00 | 16.58 | |
| | 4852.00 | 55.59 | 29.96 | 9.14 | 35.02 | 59.67 | 74.00 | 14.33 | |
| | 7282.00 | 52.51 | 35.20 | 9.91 | 34.53 | 63.09 | 74.00 | 10.91 | |
| | 1702.00 | 50.66 | 27.91 | 6.06 | 36.50 | 48.13 | 54.00 | 5.87 | AV |
| | 1999.00 | 37.20 | 31.00 | 6.44 | 36.10 | 38.54 | 54.00 | 15.46 | |
| | 4852.00 | 48.67 | 29.96 | 9.14 | 35.02 | 52.75 | 54.00 | 1.25 | |
| | **7282.00** | **42.35** | **35.20** | **9.91** | **34.53** | **52.93** | **54.00** | **1.07** | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ | |
| Model No. | : | GX1200V | Humidity | : | 45%RH |
| Test Mode | : | 802.11b Ch11 + BT Ch78 Transmitting | Date of Test | : | Nov 05, 2012 |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 53.28 | 17.78 | 6.46 | 0.86 | -- | 25.10 | 40.00 | 14.90 | QP |
| | 114.39 | 24.32 | 11.62 | 1.43 | -- | 37.37 | 43.50 | 6.13 | |
| | 250.19 | 23.73 | 12.20 | 2.20 | -- | 38.13 | 46.00 | 7.87 | |
| | 337.49 | 19.32 | 14.70 | 2.61 | -- | 36.63 | 46.00 | 9.37 | |
| | 521.79 | 12.80 | 18.32 | 3.03 | -- | 34.15 | 46.00 | 11.85 | |
| | 720.64 | 14.19 | 19.30 | 3.56 | -- | 37.05 | 46.00 | 8.95 | |
| | 1792.00 | 51.96 | 29.05 | 6.20 | 36.36 | 50.85 | 74.00 | 23.15 | PK |
| | 2188.00 | 51.11 | 29.93 | 6.67 | 36.03 | 51.68 | 74.00 | 22.32 | |
| | 4906.00 | 47.65 | 29.83 | 9.14 | 35.00 | 51.62 | 74.00 | 22.38 | |
| | 6589.00 | 51.03 | 33.19 | 9.45 | 34.57 | 59.10 | 74.00 | 14.90 | |
| | **6589.00** | **38.46** | **33.19** | **9.45** | **34.57** | **46.53** | **54.00** | **7.47** | AV |
| Vertical | 67.83 | 22.61 | 5.31 | 0.91 | -- | 28.83 | 40.00 | 11.17 | QP |
| | 133.79 | 20.81 | 11.22 | 1.56 | -- | 33.59 | 43.50 | 9.91 | |
| | 229.82 | 22.97 | 9.70 | 2.09 | -- | 34.76 | 46.00 | 11.24 | |
| | 332.64 | 16.17 | 14.53 | 2.60 | -- | 33.30 | 46.00 | 12.70 | |
| | 504.33 | 14.91 | 18.25 | 3.00 | -- | 36.16 | 46.00 | 9.84 | |
| | 800.18 | 11.56 | 19.80 | 3.61 | -- | 34.97 | 46.00 | 11.03 | |
| | 1384.49 | 59.84 | 25.29 | 5.57 | 37.23 | 53.47 | 74.00 | 20.53 | PK |
| | 2187.05 | 55.17 | 29.93 | 6.67 | 36.03 | 55.74 | 74.00 | 18.26 | |
| | 4852.00 | 55.47 | 29.96 | 9.14 | 35.02 | 59.55 | 74.00 | 14.45 | |
| | 7417.00 | 52.52 | 35.63 | 10.02 | 34.52 | 63.65 | 74.00 | 10.35 | |
| | 2187.05 | 38.24 | 29.93 | 6.67 | 36.03 | 38.81 | 54.00 | 15.19 | AV |
| | **4852.00** | **48.57** | **29.96** | **9.14** | **35.02** | **52.65** | **54.00** | **1.35** | |
| | 7417.00 | 41.28 | 35.63 | 10.02 | 34.52 | 52.41 | 54.00 | 1.59 | |

TEST ENGINEER: RAVEN JIN

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature : | 25℃ | |
| Model No. | : | GX1200V | Humidity : | 45%RH | |
| Test Mode | : | Receiving | Date of Test : | Nov 05, 2012 | |

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 32.91 | 2.73 | 16.30 | 0.69 | -- | 19.72 | 40.00 | 20.28 | QP |
| | 144.46 | 17.85 | 10.30 | 1.61 | -- | 29.76 | 43.50 | 13.74 | |
| | 266.68 | 20.43 | 12.83 | 2.32 | -- | 35.58 | 46.00 | 10.42 | |
| | 473.29 | 16.97 | 17.73 | 2.90 | -- | 37.60 | 46.00 | 8.40 | |
| | 659.53 | 14.80 | 19.00 | 3.41 | -- | 37.21 | 46.00 | 8.79 | |
| | **741.98** | **14.06** | **18.87** | **3.57** | -- | **36.50** | **46.00** | **9.50** | |
| | 1280.00 | 45.34 | 26.23 | 5.47 | 37.56 | 39.48 | 74.00 | 34.52 | PK |
| | 2775.00 | 44.03 | 30.95 | 6.68 | 35.97 | 45.69 | 74.00 | 28.31 | |
| | 4030.00 | 42.42 | 33.32 | 8.21 | 35.68 | 48.27 | 74.00 | 25.73 | |
| Vertical | 35.82 | 13.91 | 15.63 | 0.73 | -- | 30.27 | 40.00 | 9.73 | QP |
| | 143.49 | 18.15 | 10.30 | 1.61 | -- | 30.06 | 43.50 | 13.44 | |
| | 279.29 | 18.45 | 12.52 | 2.40 | -- | 33.37 | 46.00 | 12.63 | |
| | 385.99 | 18.60 | 15.30 | 2.67 | -- | 36.57 | 46.00 | 9.43 | |
| | **482.99** | **16.54** | **17.80** | **2.94** | -- | **37.28** | **46.00** | **8.72** | |
| | 638.19 | 15.07 | 18.48 | 3.35 | -- | 36.90 | 46.00 | 9.10 | |
| | 1590.00 | 42.76 | 27.07 | 5.93 | 36.78 | 38.98 | 74.00 | 35.02 | PK |
| | 2970.00 | 41.83 | 31.80 | 6.49 | 35.90 | 44.22 | 74.00 | 29.78 | |
| | 5010.00 | 39.58 | 36.69 | 9.25 | 35.19 | 50.33 | 74.00 | 23.67 | |

TEST ENGINEER: RAVEN JIN

## Band edge using conducted measurement:

According to the KDB 558074 D01 DTS Meas Guidance v02 10.2.2, antenna-port conducted measurements is also be permitted as an alternative to radiated measurements in the restricted frequency bands.

The transmitter output was connected to the spectrum analyzer. The EUT was set to transmit continuously (≥ 98% duty cycle).

The test procedure is defined in KDB558074 v02:2012 (the 10.2.3.3 Average Power Measurement Procedure was used for average measurement & the 10.2.3.2 Peak Power Measurement Procedure was used for peak measurement).

Note1 – The additional radiated test was performed to prove that the cabinet emissions (transmit antenna be replaced with a termination) also meets the requirement.

**Cabinet Emission:**

For 802.11b Transmitting

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 2390.00 | 50.75 | 28.80 | 6.42 | 35.95 | 50.02 | 74.00 | 23.98 | PK |
| | 2483.50 | 50.33 | 28.36 | 6.45 | 35.91 | 49.23 | 74.00 | 24.77 | |
| | **2390.00** | **38.52** | **28.80** | **6.42** | **35.95** | **37.79** | **54.00** | **16.21** | AV |
| | 2483.50 | 36.98 | 28.36 | 6.45 | 35.91 | 35.88 | 54.00 | 18.12 | |
| Vertical | 2390.00 | 50.86 | 28.80 | 6.42 | 35.95 | 50.13 | 74.00 | 23.87 | PK |
| | 2483.50 | 50.33 | 28.36 | 6.45 | 35.91 | 49.23 | 74.00 | 24.77 | |
| | **2390.00** | **38.23** | **28.80** | **6.42** | **35.95** | **37.50** | **54.00** | **16.50** | AV |
| | 2483.50 | 37.22 | 28.36 | 6.45 | 35.91 | 36.12 | 54.00 | 17.88 | |

For 802.11g Transmitting

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 2390.00 | 50.41 | 28.80 | 6.42 | 35.95 | 49.68 | 74.00 | 24.32 | PK |
| | 2483.50 | 50.65 | 28.36 | 6.45 | 35.91 | 49.55 | 74.00 | 24.45 | |
| | **2390.00** | **38.29** | **28.80** | **6.42** | **35.95** | **37.56** | **54.00** | **16.44** | AV |
| | 2483.50 | 36.97 | 28.36 | 6.45 | 35.91 | 35.87 | 54.00 | 18.13 | |
| Vertical | 2390.00 | 50.62 | 28.80 | 6.42 | 35.95 | 49.89 | 74.00 | 24.11 | PK |
| | 2483.50 | 50.42 | 28.36 | 6.45 | 35.91 | 49.32 | 74.00 | 24.68 | |
| | **2390.00** | **38.36** | **28.80** | **6.42** | **35.95** | **37.63** | **54.00** | **16.37** | AV |
| | 2483.50 | 37.40 | 28.36 | 6.45 | 35.91 | 36.30 | 54.00 | 17.70 | |

For 802.11n HT20 Transmitting

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 2390.00 | 50.11 | 28.80 | 6.42 | 35.95 | 49.38 | 74.00 | 24.62 | PK |
| | 2483.50 | 50.54 | 28.36 | 6.45 | 35.91 | 49.44 | 74.00 | 24.56 | |
| | **2390.00** | **37.99** | **28.80** | **6.42** | **35.95** | **37.26** | **54.00** | **16.74** | AV |
| | 2483.50 | 36.76 | 28.36 | 6.45 | 35.91 | 35.66 | 54.00 | 18.34 | |
| Vertical | 2390.00 | 50.19 | 28.80 | 6.42 | 35.95 | 49.46 | 74.00 | 24.54 | PK |
| | 2483.50 | 50.54 | 28.36 | 6.45 | 35.91 | 49.44 | 74.00 | 24.56 | |
| | **2390.00** | **38.22** | **28.80** | **6.42** | **35.95** | **37.49** | **54.00** | **16.51** | AV |
| | 2483.50 | 37.00 | 28.36 | 6.45 | 35.91 | 35.90 | 54.00 | 18.10 | |

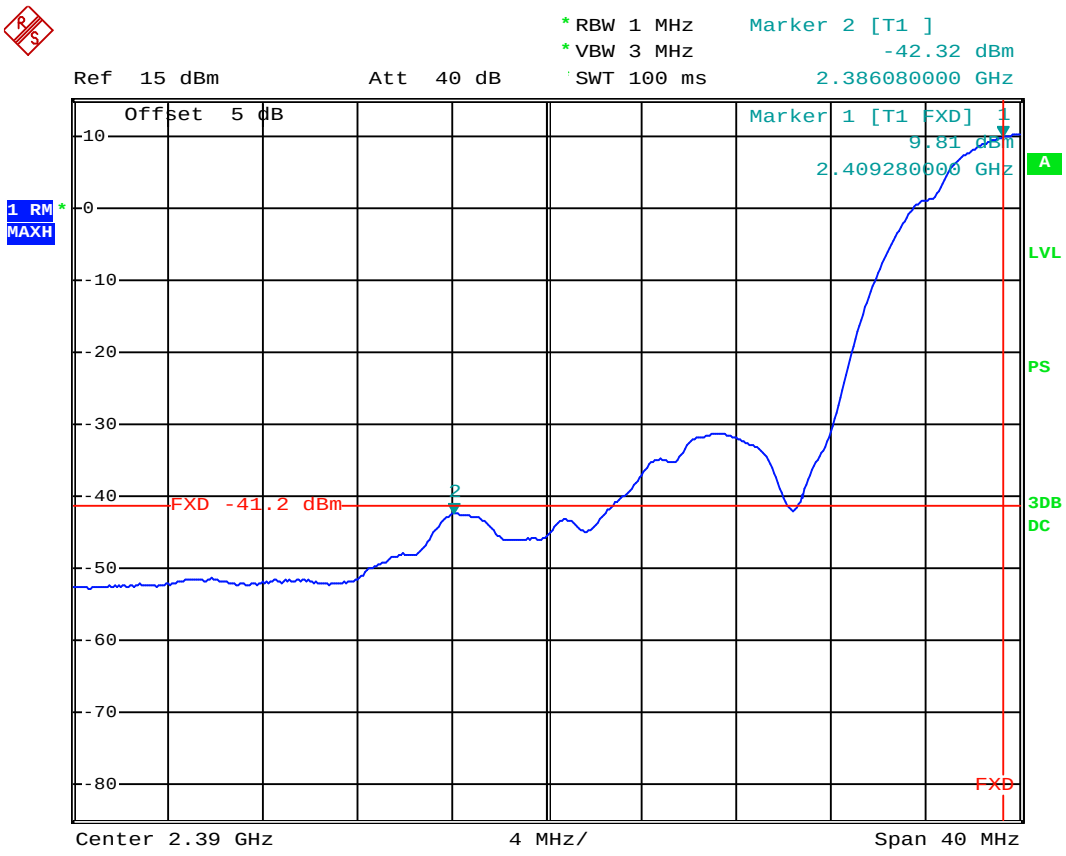
For 802.11n HT40 Transmitting

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Limits dB (μV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 2390.00 | 50.07 | 28.80 | 6.42 | 35.95 | 49.34 | 74.00 | 24.66 | PK |
| | 2483.50 | 50.51 | 28.36 | 6.45 | 35.91 | 49.41 | 74.00 | 24.59 | |
| | **2390.00** | **38.00** | **28.80** | **6.42** | **35.95** | **37.27** | **54.00** | **16.73** | AV |
| | 2483.50 | 36.58 | 28.36 | 6.45 | 35.91 | 35.48 | 54.00 | 18.52 | |
| Vertical | 2390.00 | 50.12 | 28.80 | 6.42 | 35.95 | 49.39 | 74.00 | 24.61 | PK |
| | 2483.50 | 50.41 | 28.36 | 6.45 | 35.91 | 49.31 | 74.00 | 24.69 | |
| | **2390.00** | **38.18** | **28.80** | **6.42** | **35.95** | **37.45** | **54.00** | **16.55** | AV |
| | 2483.50 | 36.78 | 28.36 | 6.45 | 35.91 | 35.68 | 54.00 | 18.32 | |

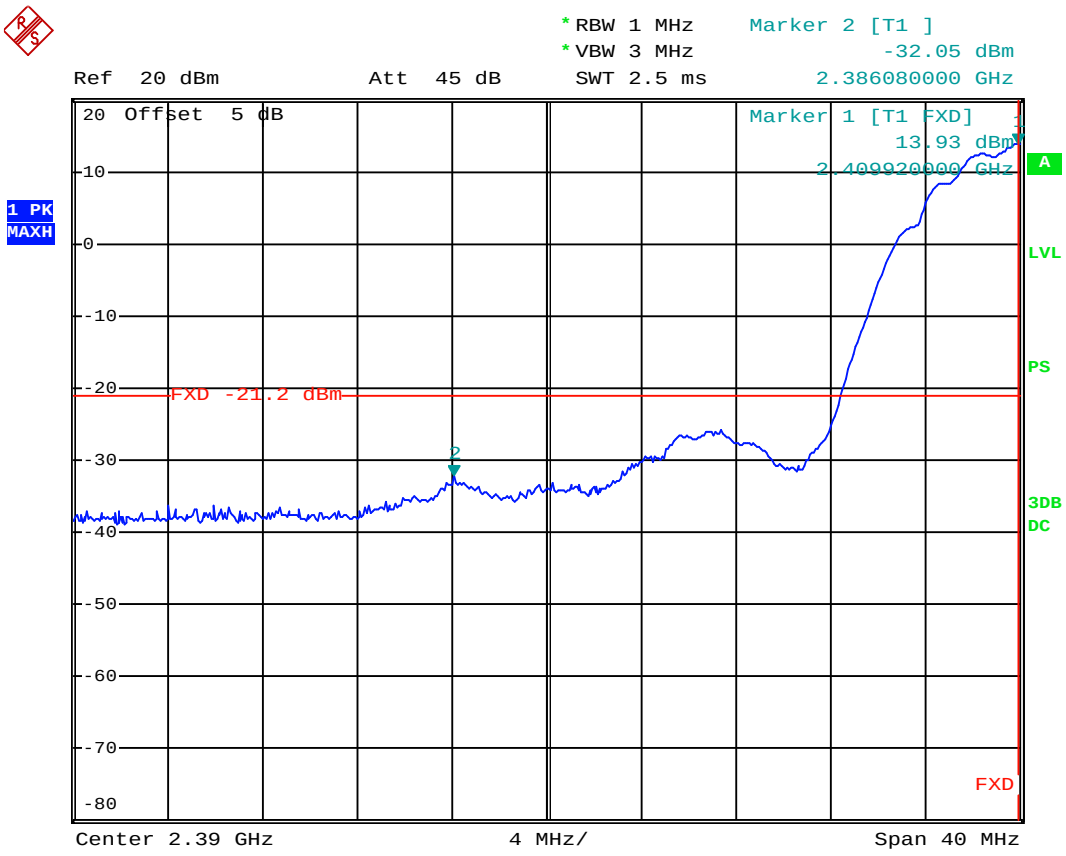
Note2 – The antenna gain (2dBi) and cable loss (3dB) were set as offset (5dB) in the spectrum. (According to KDB558074 v02:2012 Sec. 10.2.2.2, when determining the EIRP from the measured conducted power, the upper bound on antenna gain for a device with a signal RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. )

Note3 – EIRP = E + 20log(d) – 104.8
Where: EIRP = the equivalent isotropic radiated power in dBm,
E = electric field strength in dBμV/m,
d = measurement distance in meters.
The Average Power limit = -41.2 dBm
The Peak Power limit = -21.2 dBm

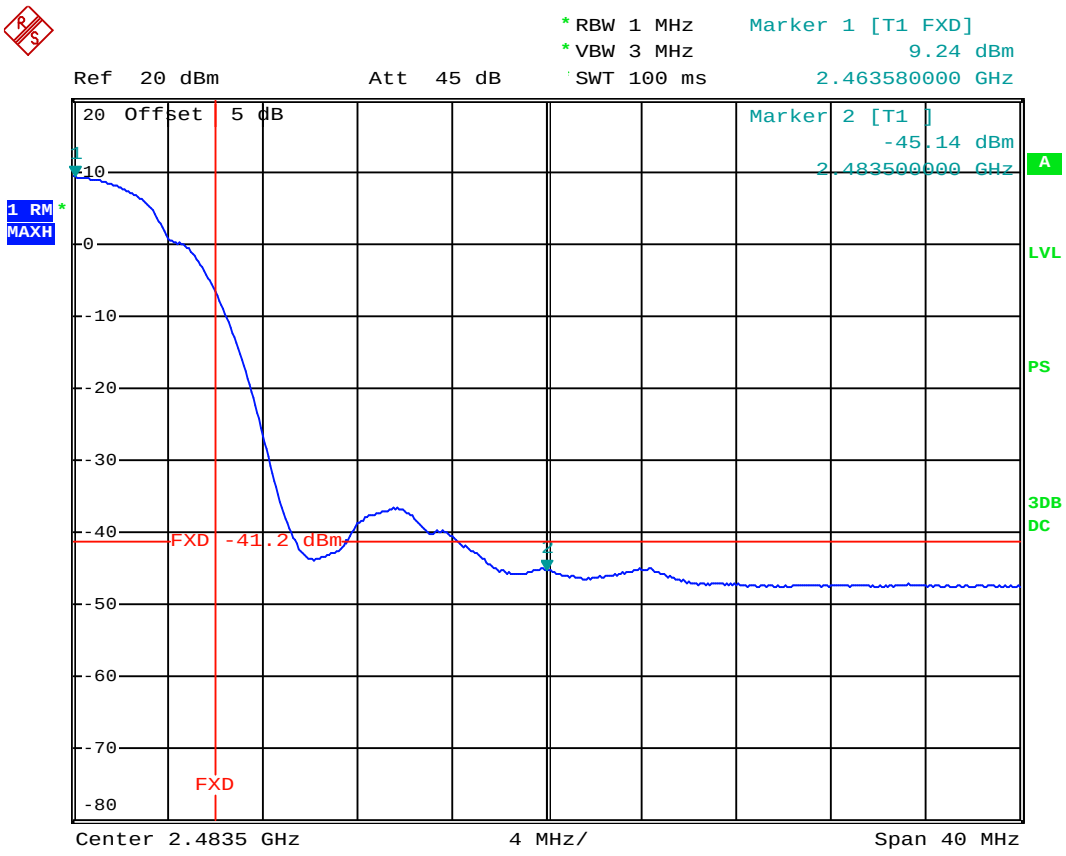
## AV Result on 802.11b Ch 01



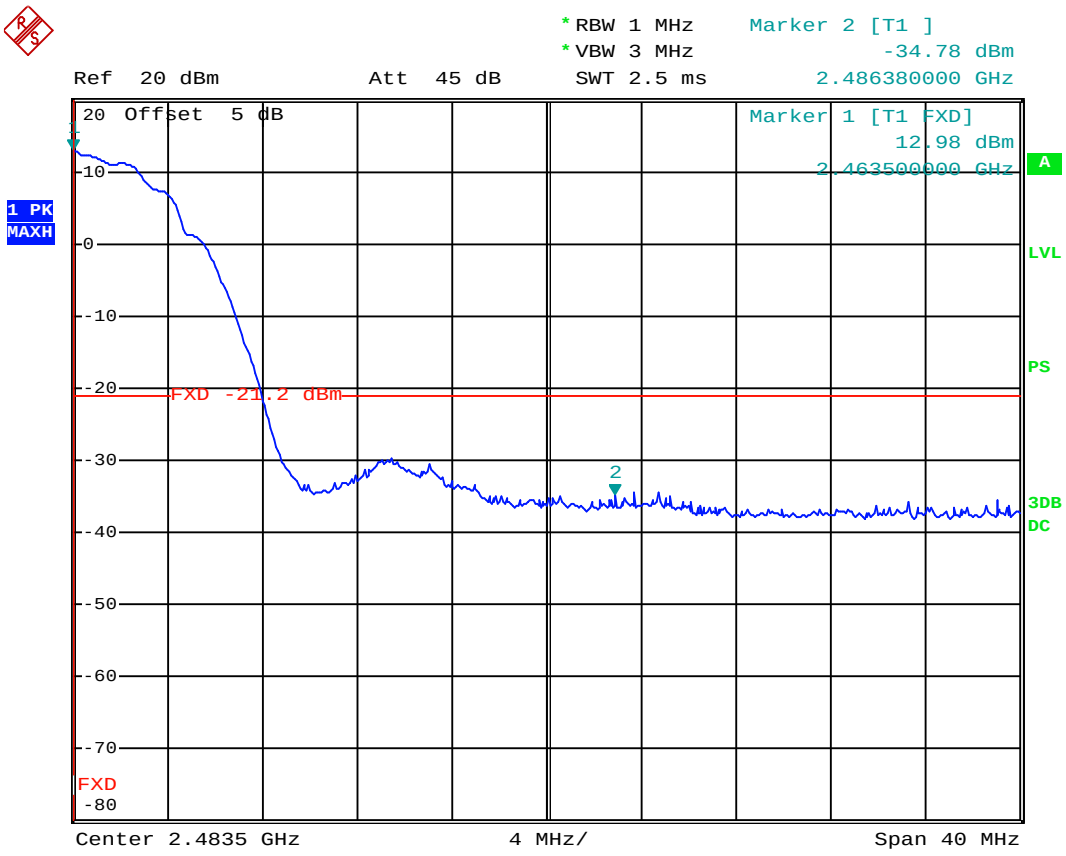

## PK Result on 802.11b Ch 01



## AV Result on 802.11b Ch 11




## PK Result on 802.11b Ch 11



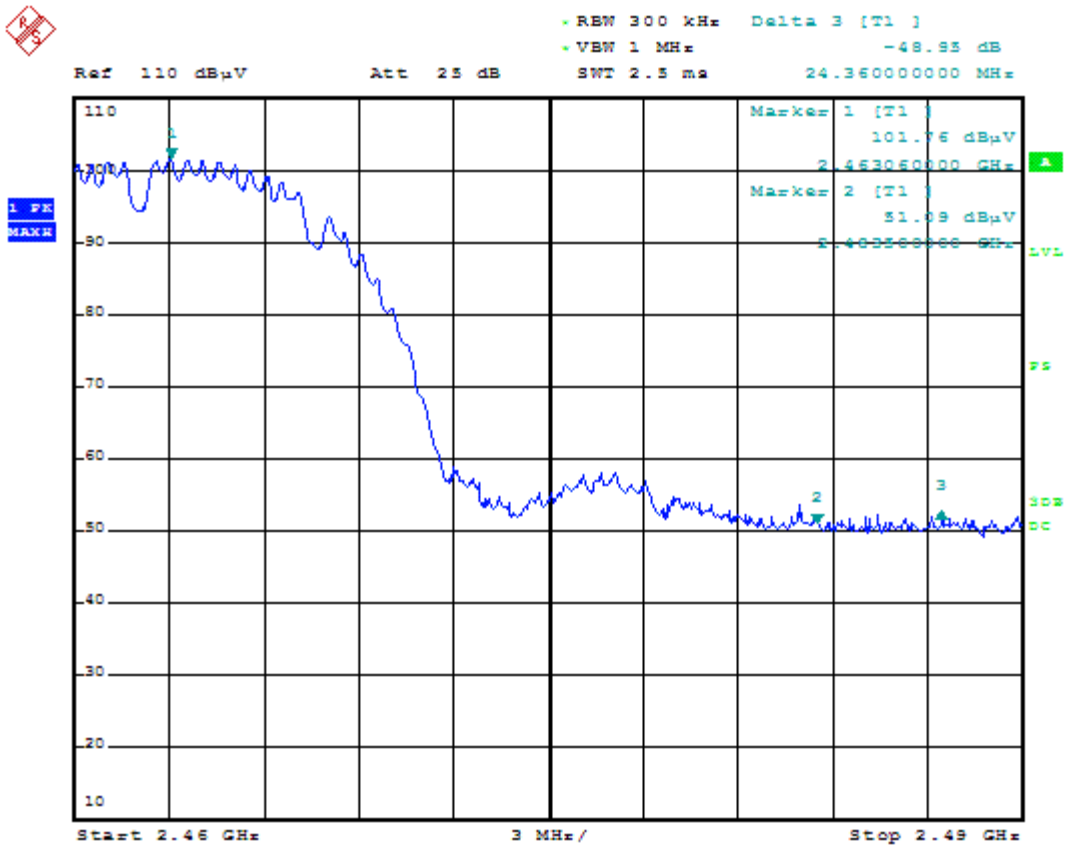
**For Band-Edge measurement, marker-delta method was used to obtain the test result according to FCC KDB 913591.**
**(refer to KDB 558074 D01 v02 sec. 10.2.5.1).**

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature | : | 25℃ |
| Model No. | : | GX1200V | Humidity | : | 45%RH |
| Test Mode | : | 802.11b Transmitting Ch11 | Date of Test | : | Nov 05, 2012 |

Field strength measurement of the fundamental emission:

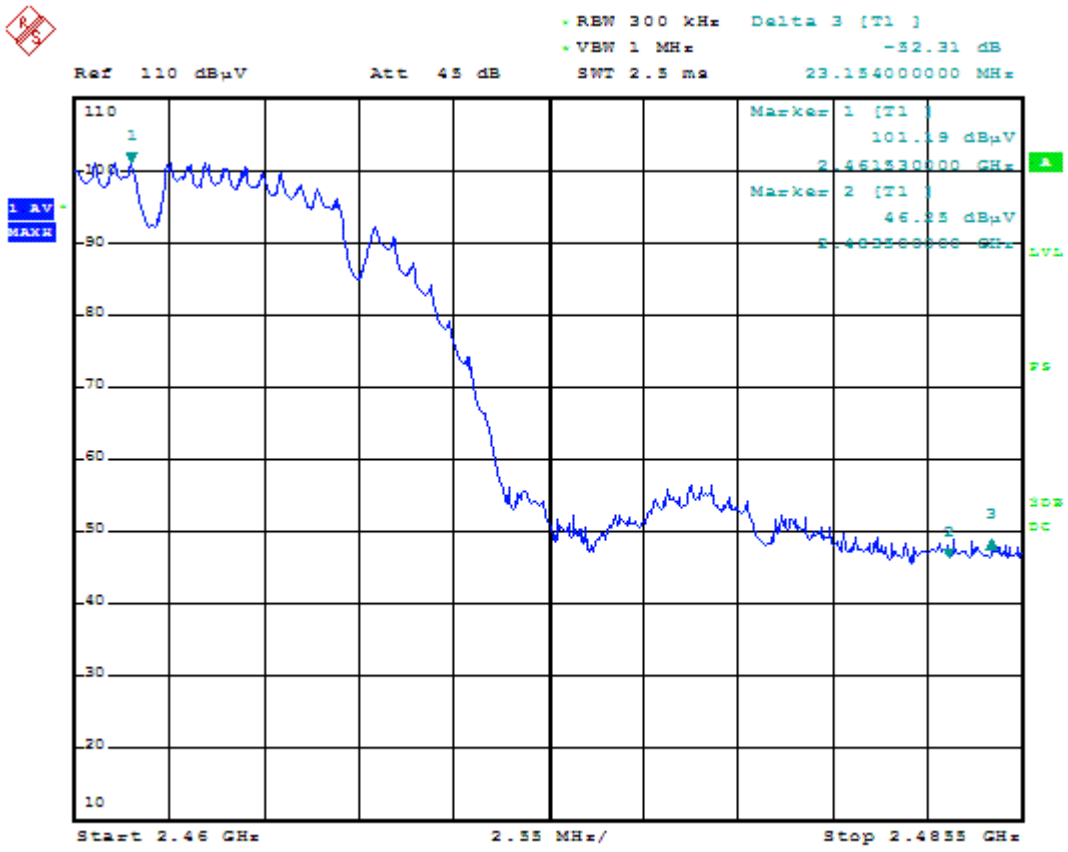
| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Remark |
|---|---|---|---|---|---|---|---|
| Horizontal | 2463.08 | 199.47 | 28.45 | 6.45 | 35.92 | 98.45 | PK |
| | 2462.84 | 95.48 | 28.45 | 6.45 | 35.92 | 94.46 | AV |
| Vertical | 2463.08 | 103.71 | 28.45 | 6.45 | 35.92 | 102.69 | PK |
| | 2462.84 | 97.96 | 28.45 | 6.45 | 35.92 | 96.94 | AV |

**Horizontal**




Delta = 48.95 dB

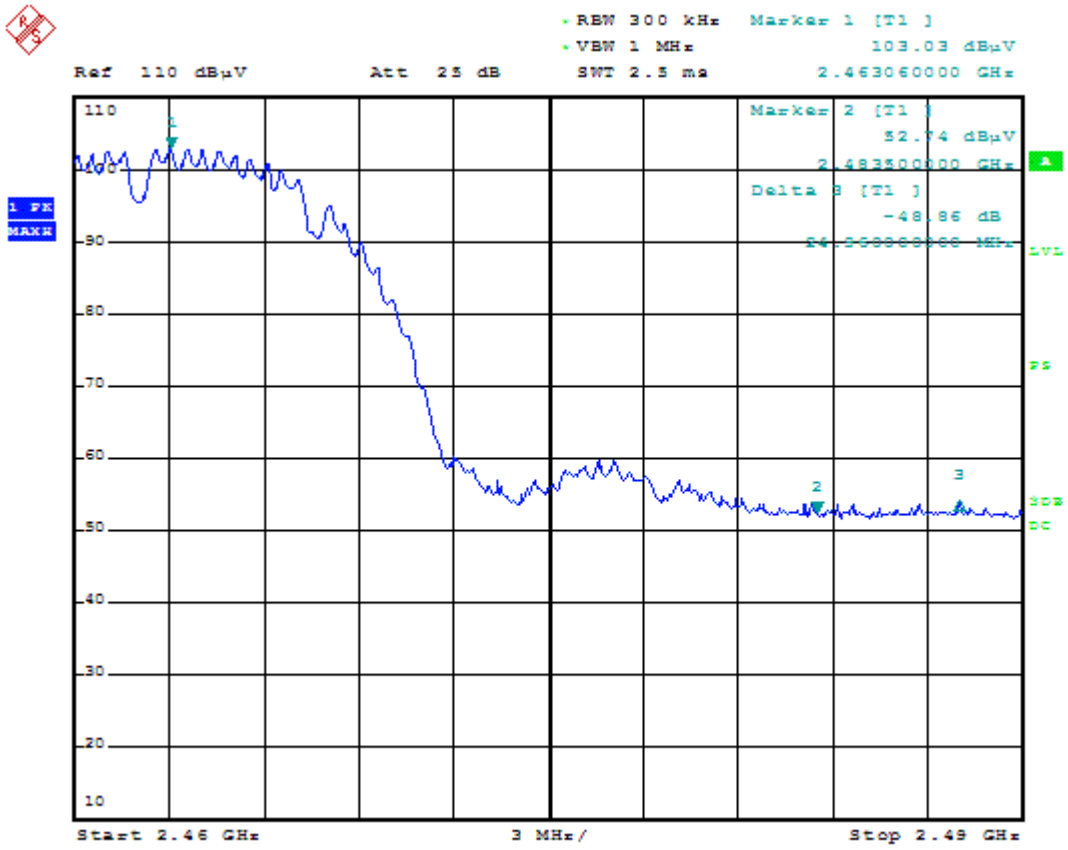
PK Final Result = PK Result - Delta = 98.45 – 48.95 = 49.50 dBuV/m
Limit = 74 dBuV/m
Result is **PASS**




Delta = 52.31 dB

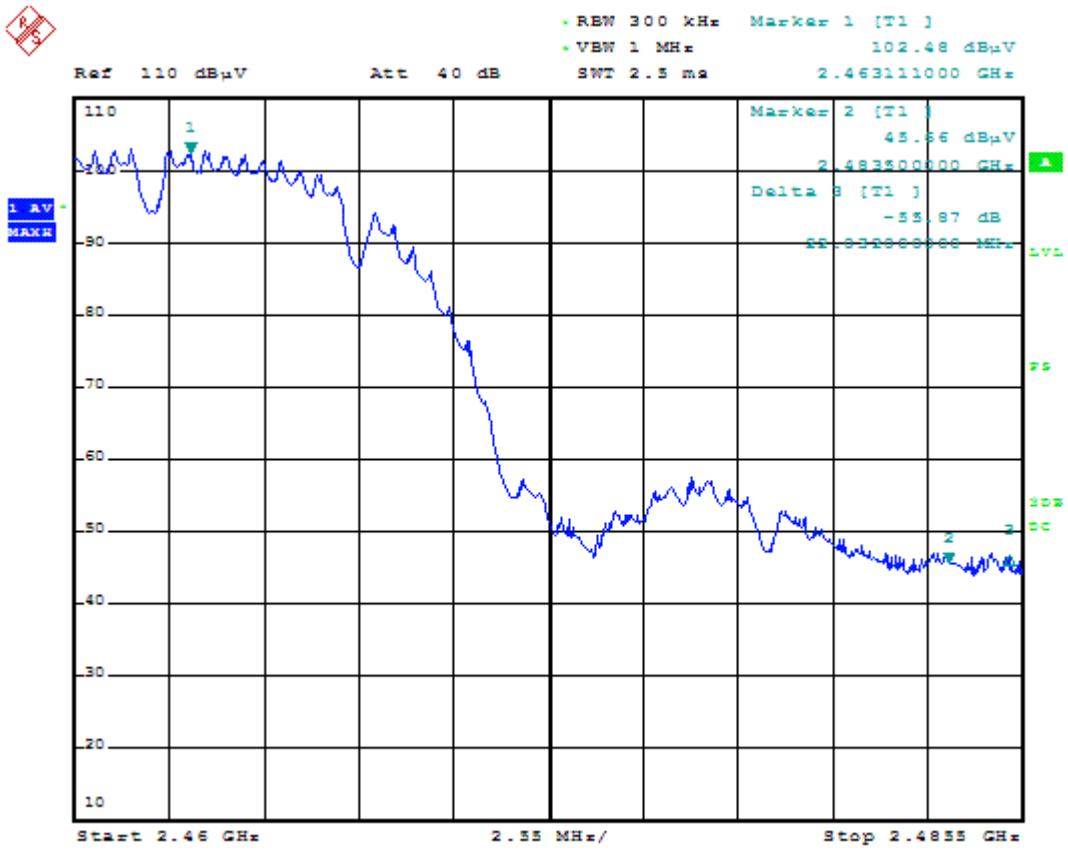
AV Final Result = AV Result - Delta = 94.46 – 52.31 = 42.15 dBuV/m
Limit = 54 dBuV/m
Result is **PASS**

**Vertical**




Delta = 48.86 dB

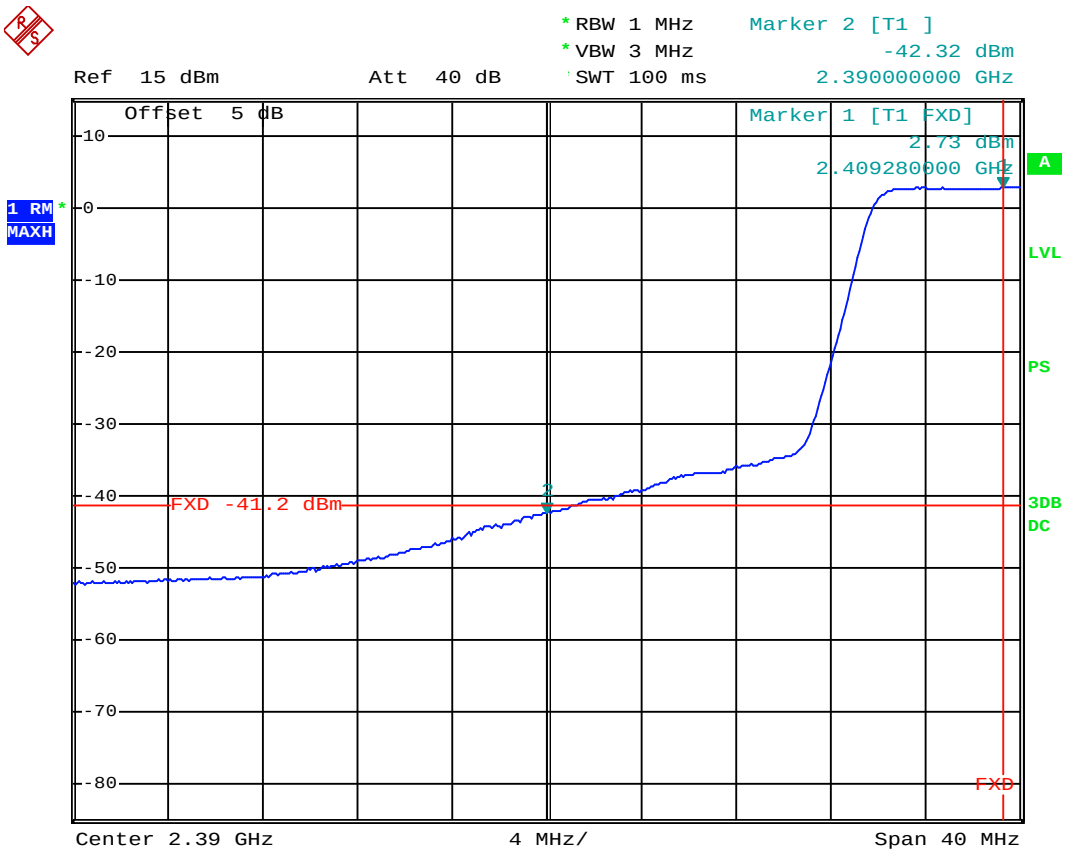
PK Final Result = PK Result - Delta = 102.69 – 48.86 = 53.83 dBuV/m
Limit = 74 dBuV/m
Result is **PASS**



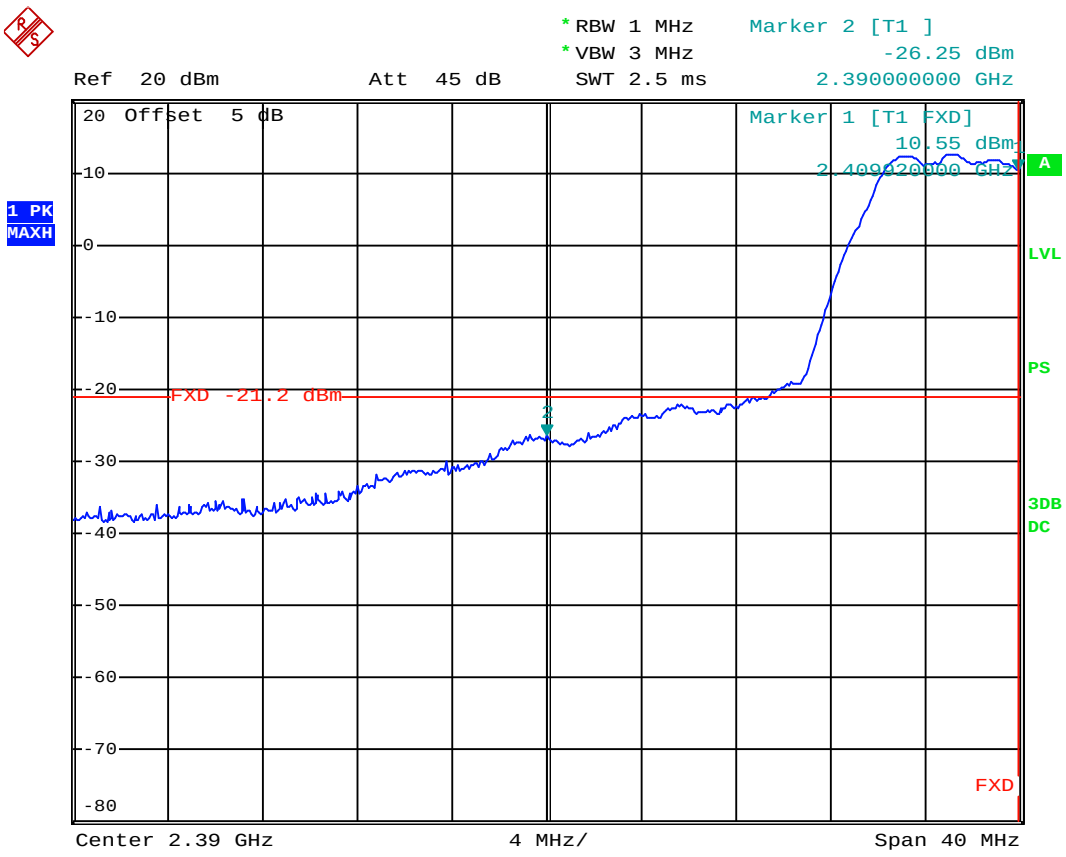

Delta = 55.87 dB

AV Final Result = AV Result - Delta = 96.94 – 55.87 = 41.07 dBuV/m
Limit = 54 dBuV/m
Result is **PASS**

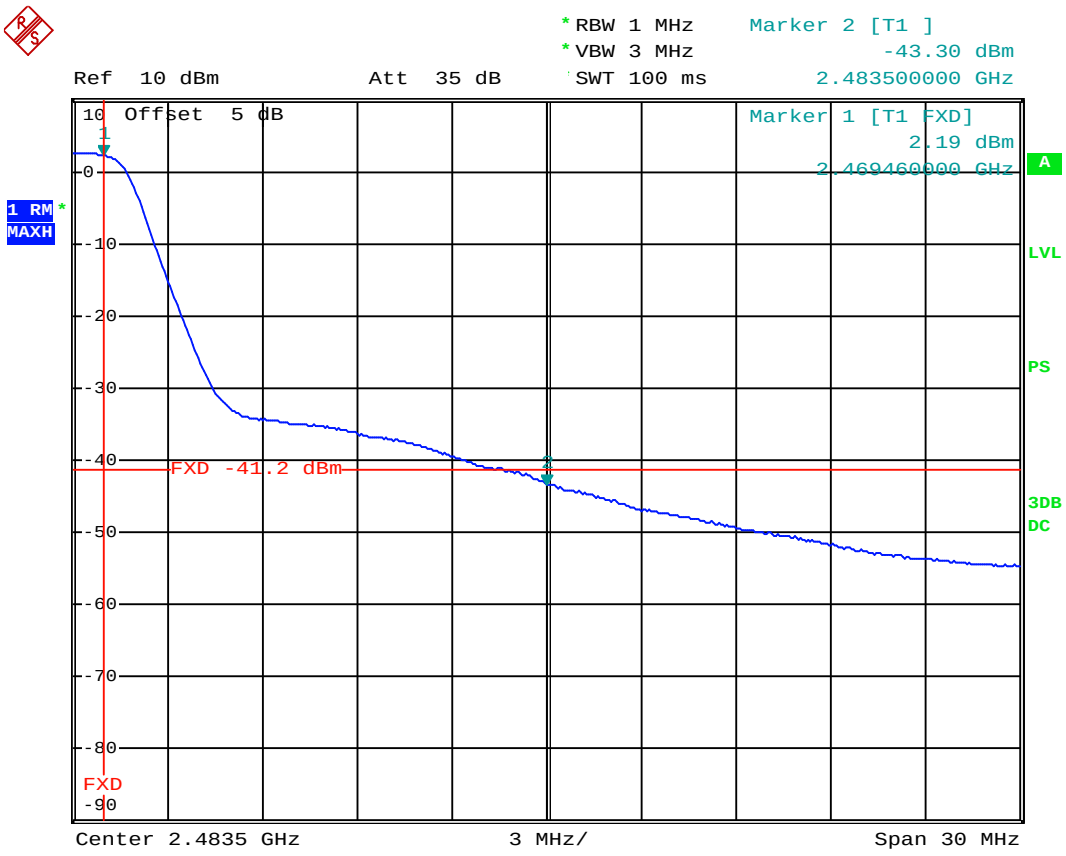
## AV Result on 802.11g Ch 01



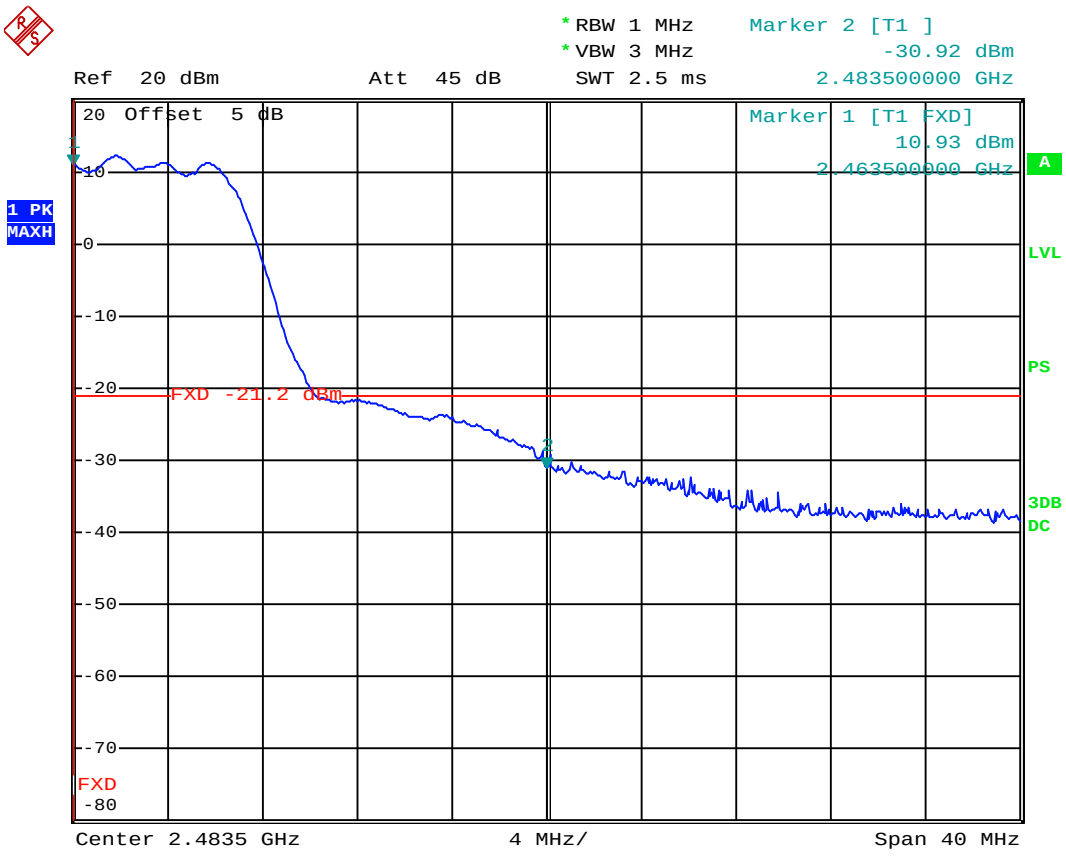

## PK Result on 802.11g Ch 01



## AV Result on 802.11g Ch 11




## PK Result on 802.11g Ch 11



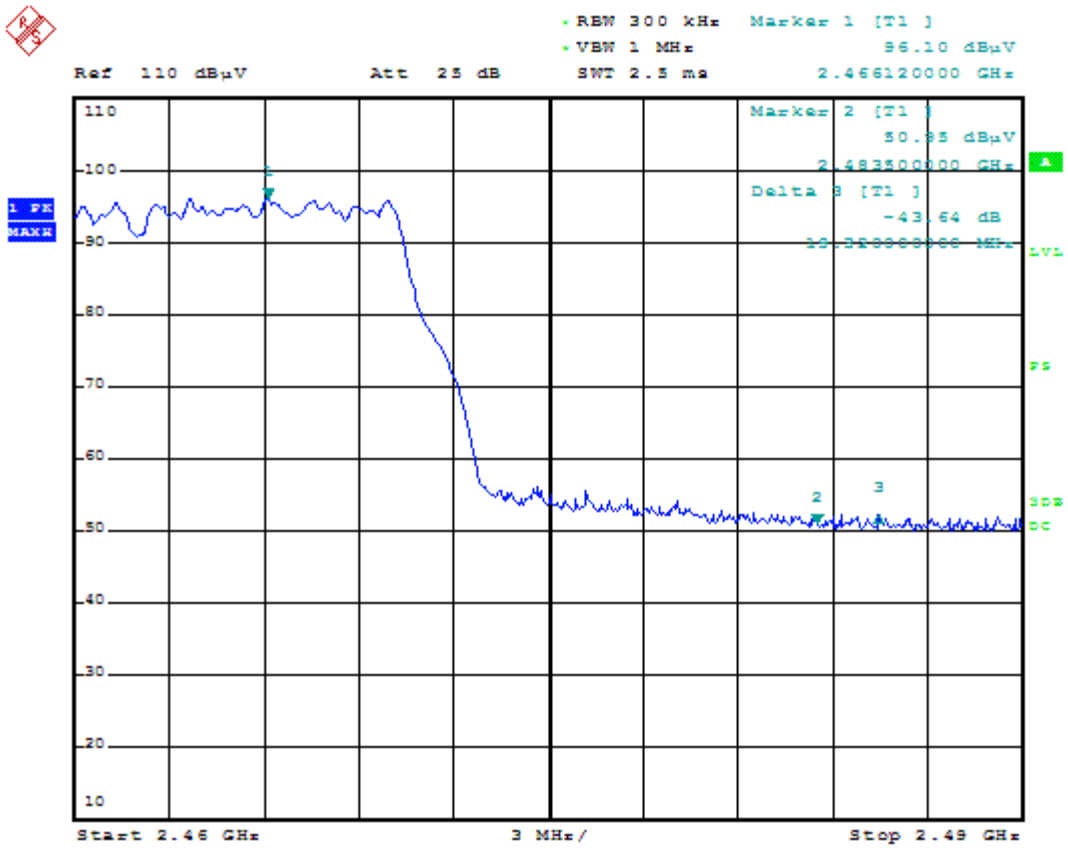
**For Band-Edge measurement, marker-delta method was used to obtain the test result according to FCC KDB 913591.**
**(refer to KDB 558074 D01 v02 sec. 10.2.5.1).**

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature | : | 25℃ |
| Model No. | : | GX1200V | Humidity | : | 45%RH |
| Test Mode | : | 802.11g Transmitting Ch11 | Date of Test | : | Nov 05, 2012 |

Field strength measurement of the fundamental emission:

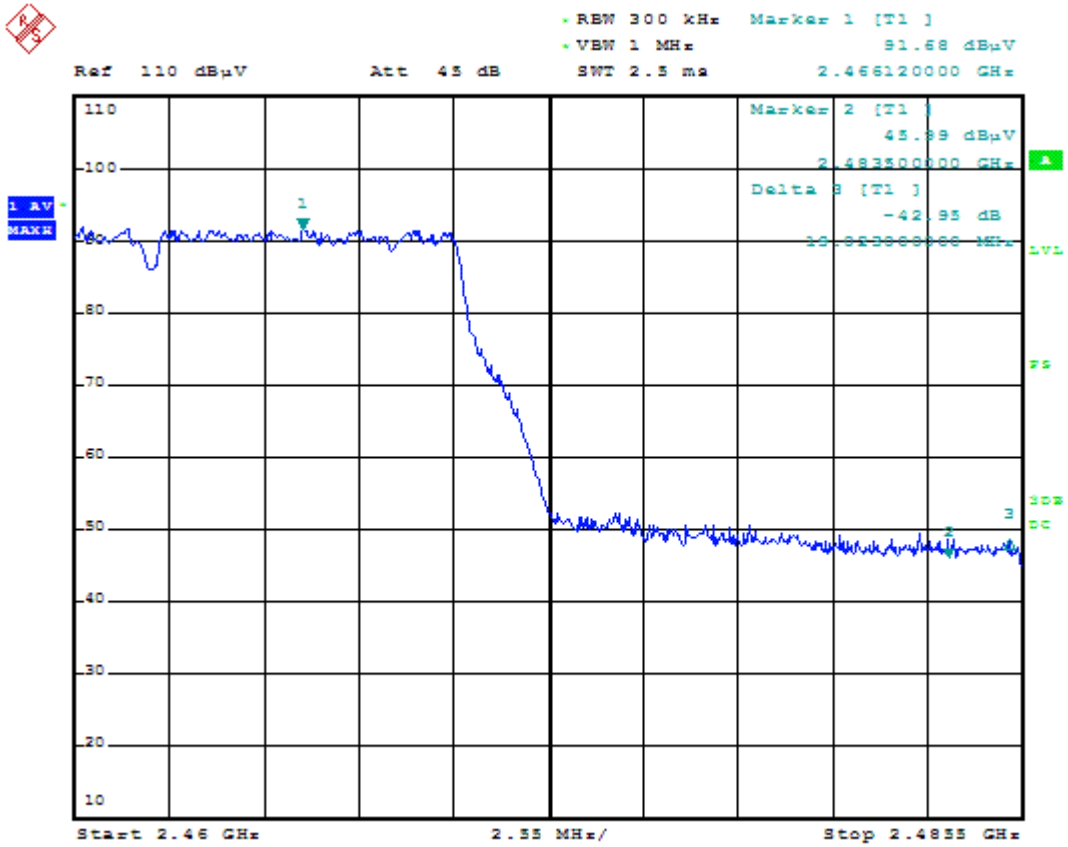
| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Remark |
|---|---|---|---|---|---|---|---|
| Horizontal | 2467.52 | 101.32 | 28.45 | 6.45 | 35.92 | 100.30 | PK |
| | 2468.96 | 90.13 | 28.42 | 6.45 | 35.92 | 89.08 | AV |
| Vertical | 2465.48 | 104.87 | 28.45 | 6.45 | 35.92 | 103.85 | PK |
| | 2468.96 | 94.14 | 28.42 | 6.45 | 35.92 | 93.09 | AV |

**Horizontal**




Delta = 43.64 dB

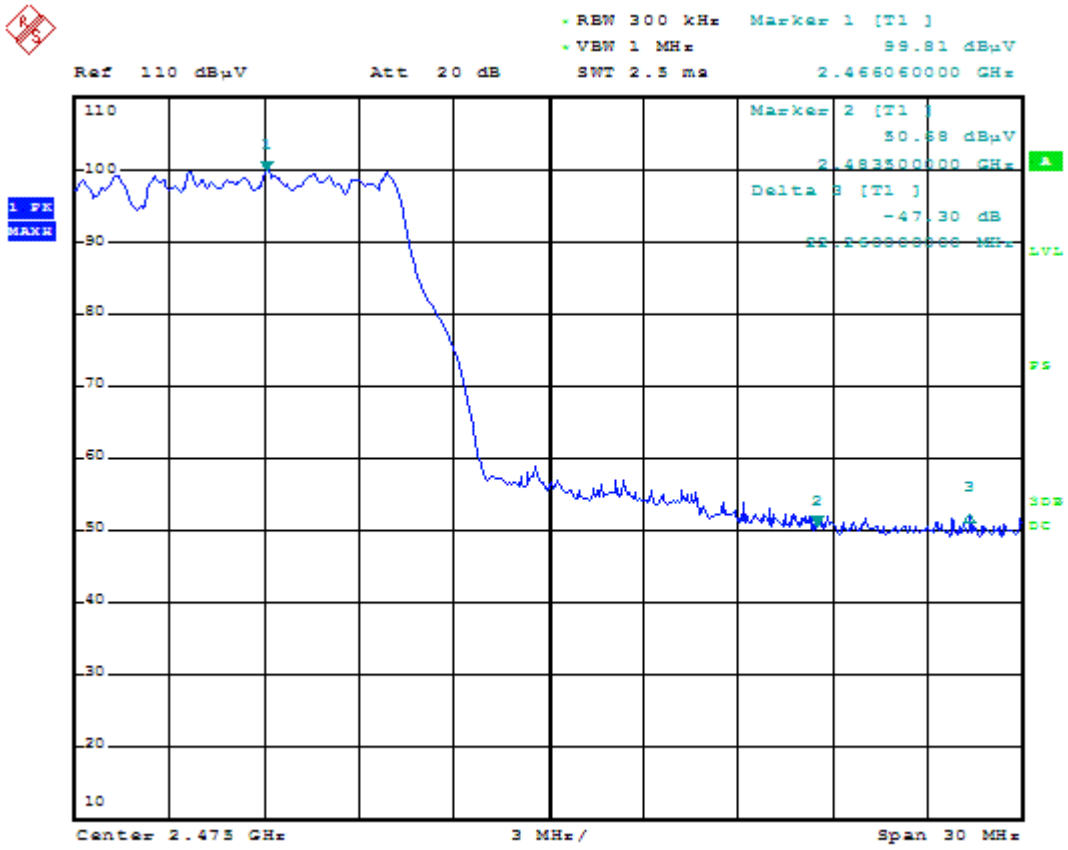
PK Final Result = PK Result - Delta = 100.30 – 43.64 = 56.66 dBuV/m
Limit = 74 dBuV/m
Result is **PASS**




Delta = 42.95 dB

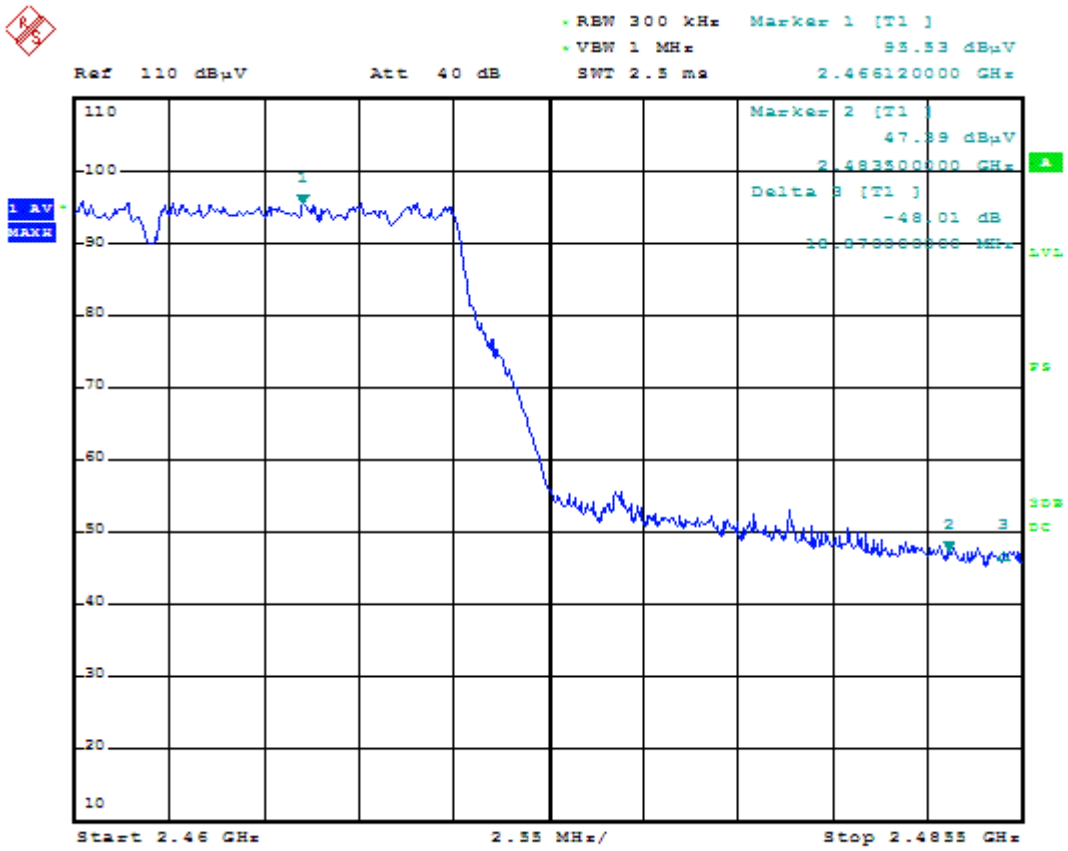
AV Final Result = AV Result - Delta = 89.08 – 42.95 = 46.13 dBuV/m
Limit = 54 dBuV/m
Result is **PASS**

**Vertical**




Delta = 47.30 dB

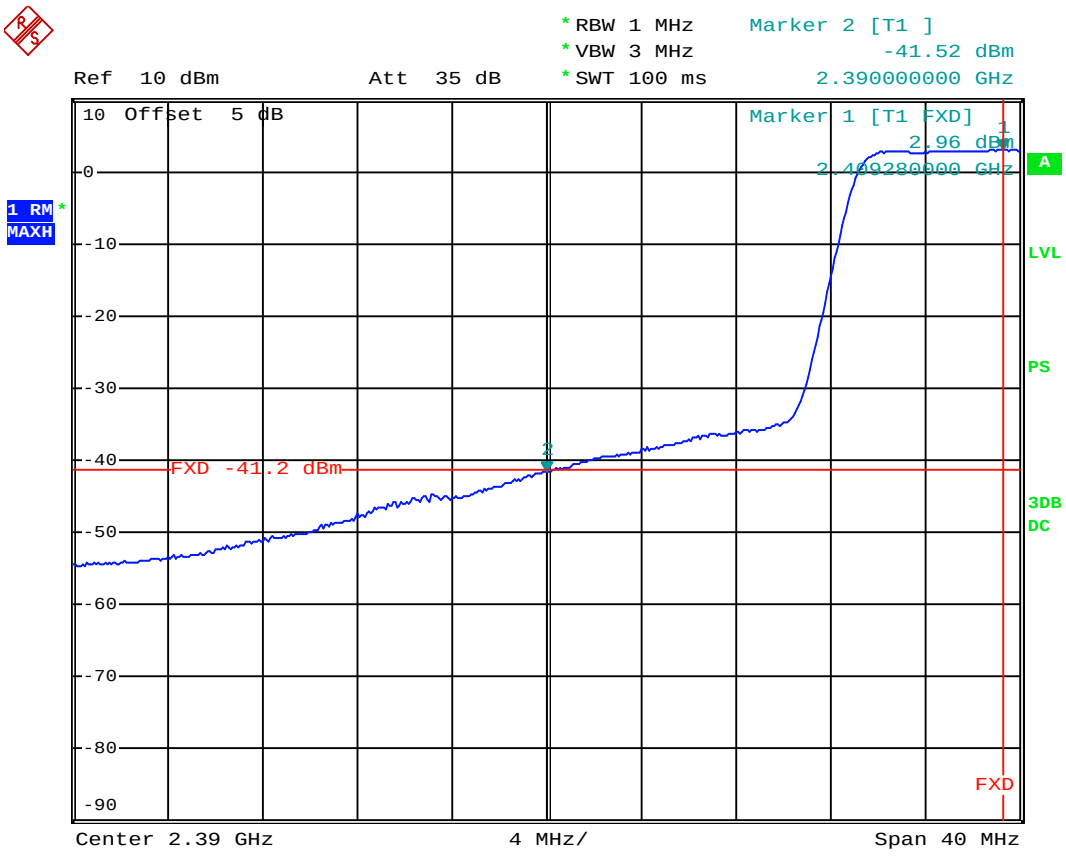
PK Final Result = PK Result - Delta = 103.85 – 47.30 = 56.55 dBuV/m
Limit = 74 dBuV/m
Result is **PASS**



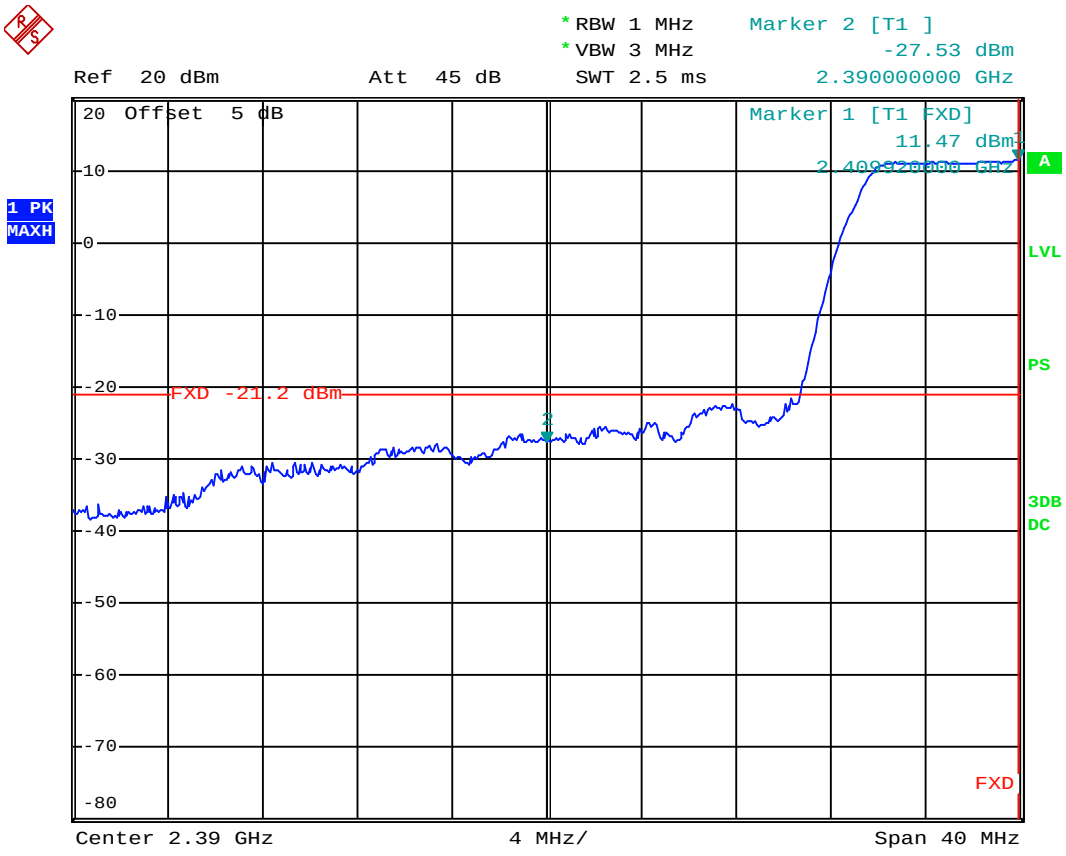

Delta = 48.01 dB

AV Final Result = AV Result - Delta = 93.09 – 48.01 = 45.08 dBuV/m
Limit = 54 dBuV/m
Result is **PASS**

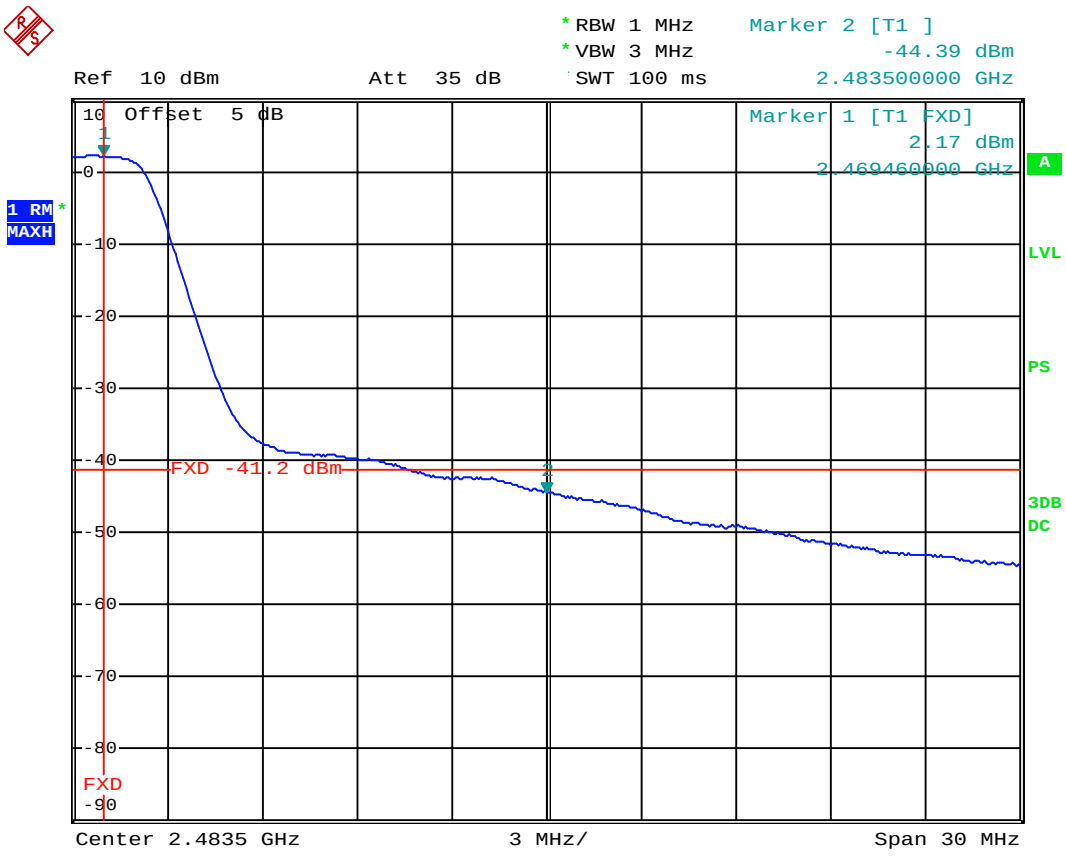
## AV Result on 802.11n HT20 Ch 01



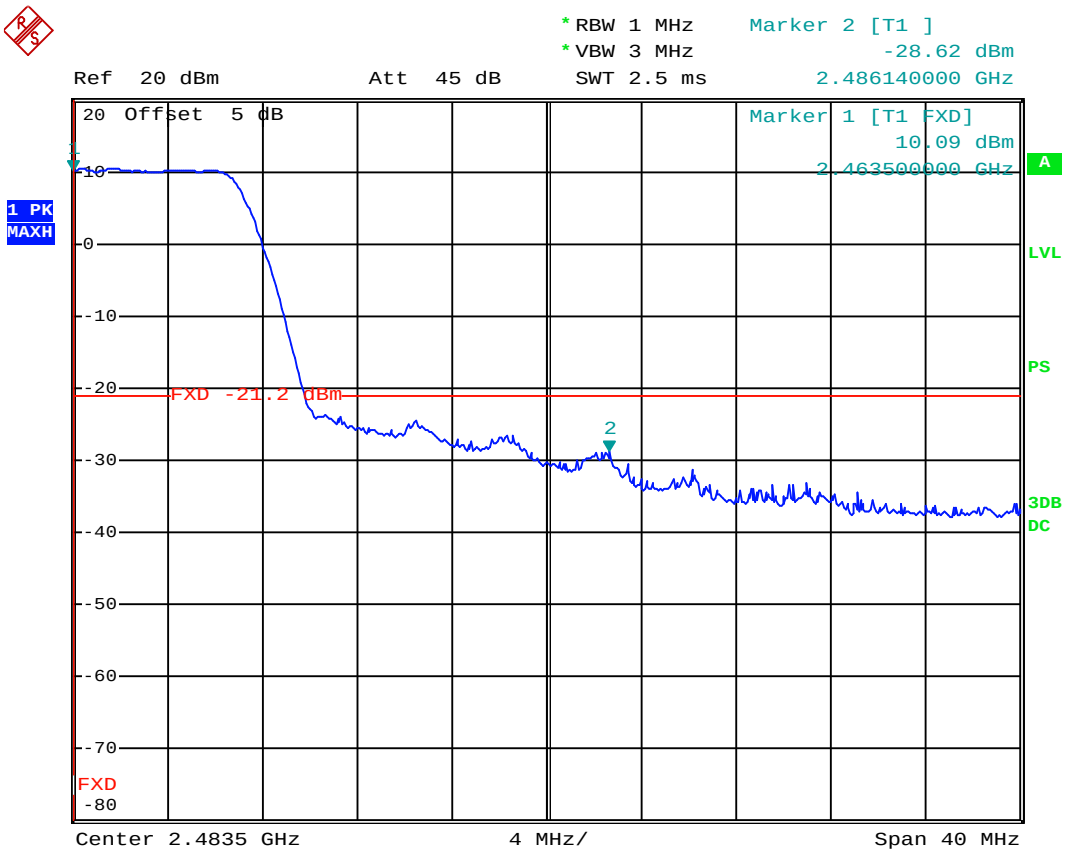

## PK Result on 802.11n HT20 Ch 01



## AV Result on 802.11n HT20 Ch 11




## PK Result on 802.11n HT20 Ch 11



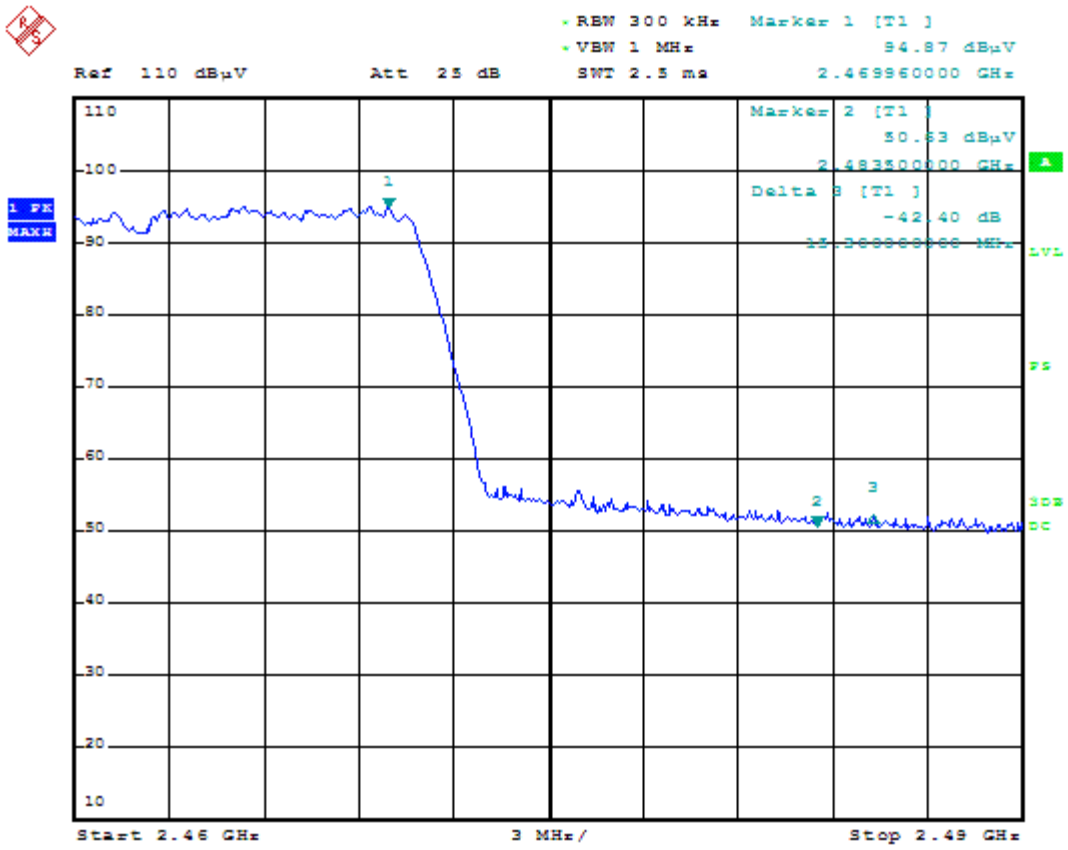
**For Band-Edge measurement, marker-delta method was used to obtain the test result according to FCC KDB 913591.**
**(refer to KDB 558074 D01 v02 sec. 10.2.5.1).**

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature | : | 25℃ |
| Model No. | : | GX1200V | Humidity | : | 45%RH |
| Test Mode | : | 802.11n HT20 Transmitting Ch11 | Date of Test | : | Nov 05, 2012 |

Field strength measurement of the fundamental emission:

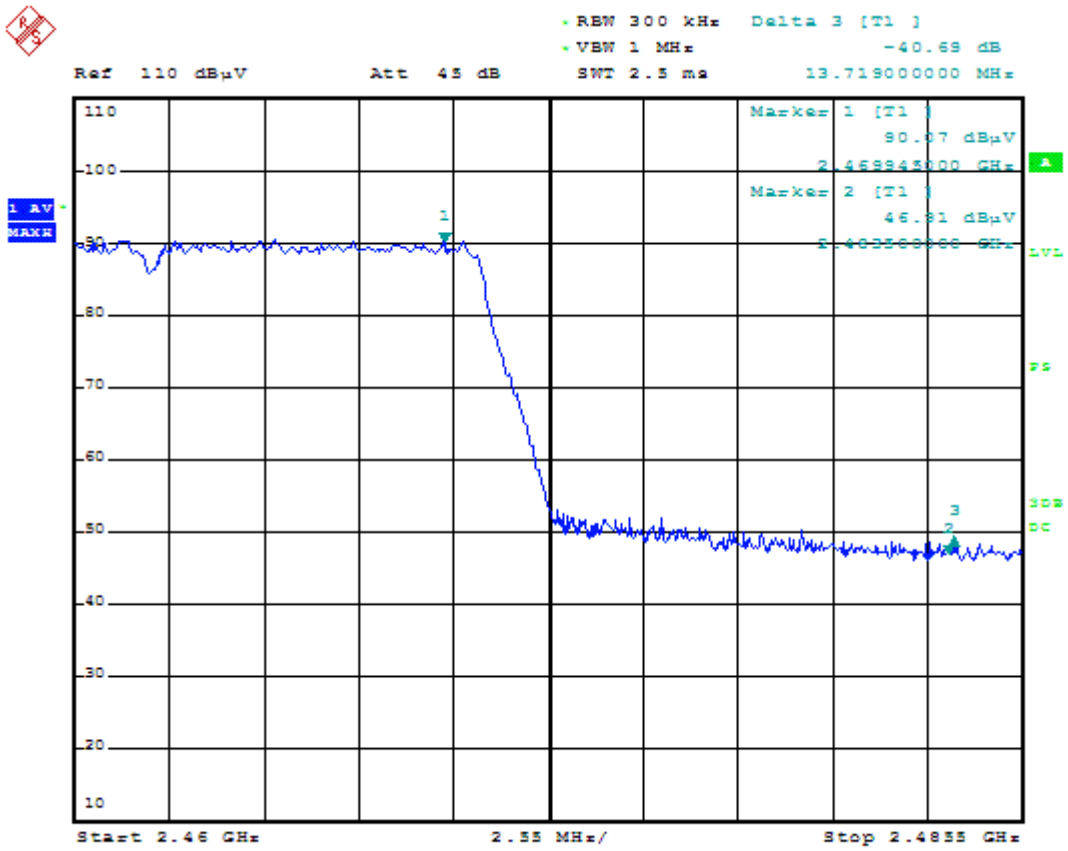
| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Remark |
|---|---|---|---|---|---|---|---|
| Horizontal | 2467.58 | 99.47 | 28.45 | 6.45 | 35.92 | 98.45 | PK |
| | 2467.40 | 90.05 | 28.45 | 6.45 | 35.92 | 89.03 | AV |
| Vertical | 2463.92 | 103.59 | 28.45 | 6.45 | 35.92 | 102.57 | PK |
| | 2467.46 | 93.99 | 28.45 | 6.45 | 35.92 | 92.97 | AV |

**Horizontal**




Delta = 42.40 dB

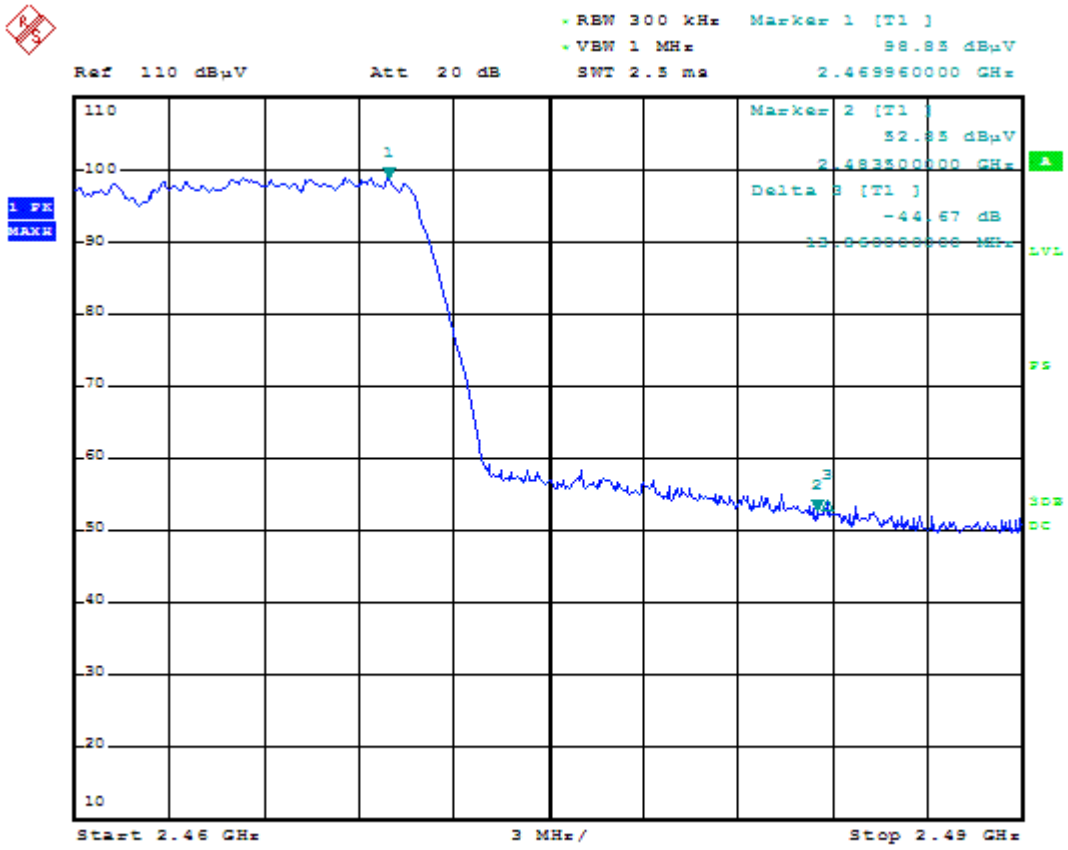
PK Final Result = PK Result - Delta = 98.45 – 42.40 = 56.05 dBuV/m
Limit = 74 dBuV/m
Result is **PASS**




Delta = 40.69 dB

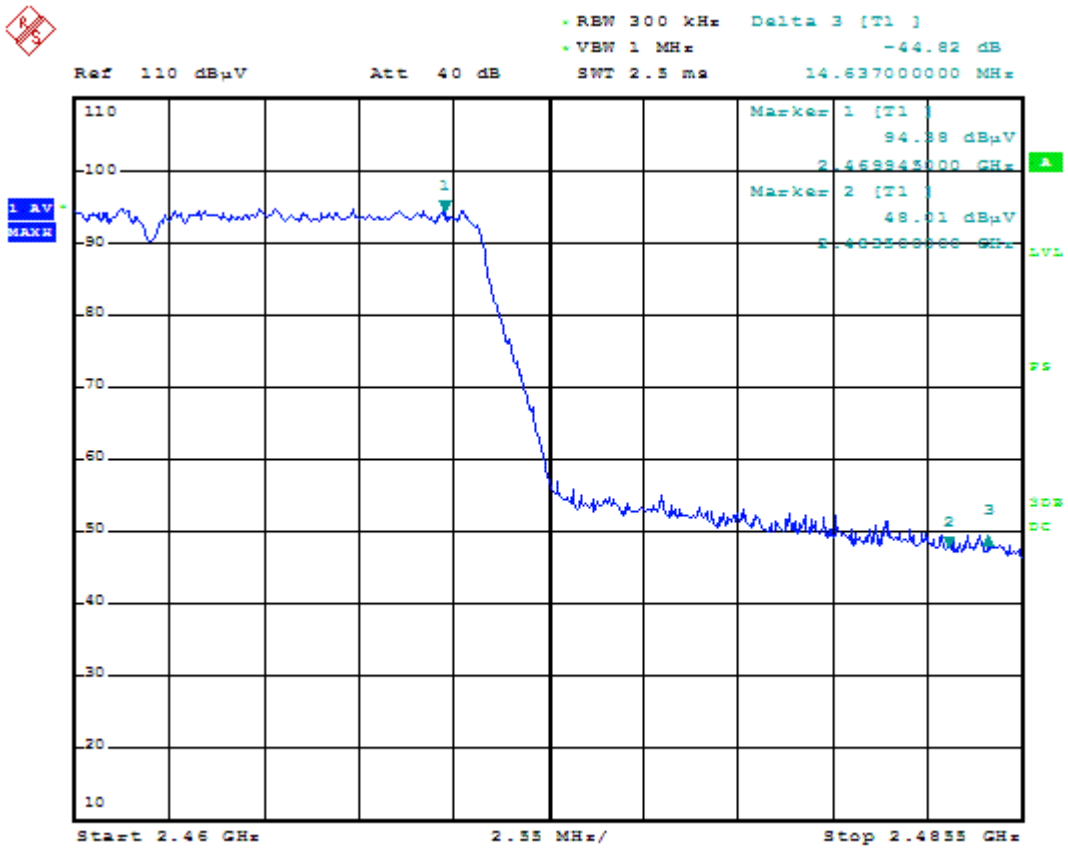
AV Final Result = AV Result - Delta = 89.03 – 40.69 = 48.34 dBuV/m
Limit = 54 dBuV/m
Result is **PASS**

**Vertical**




Delta = 44.67 dB

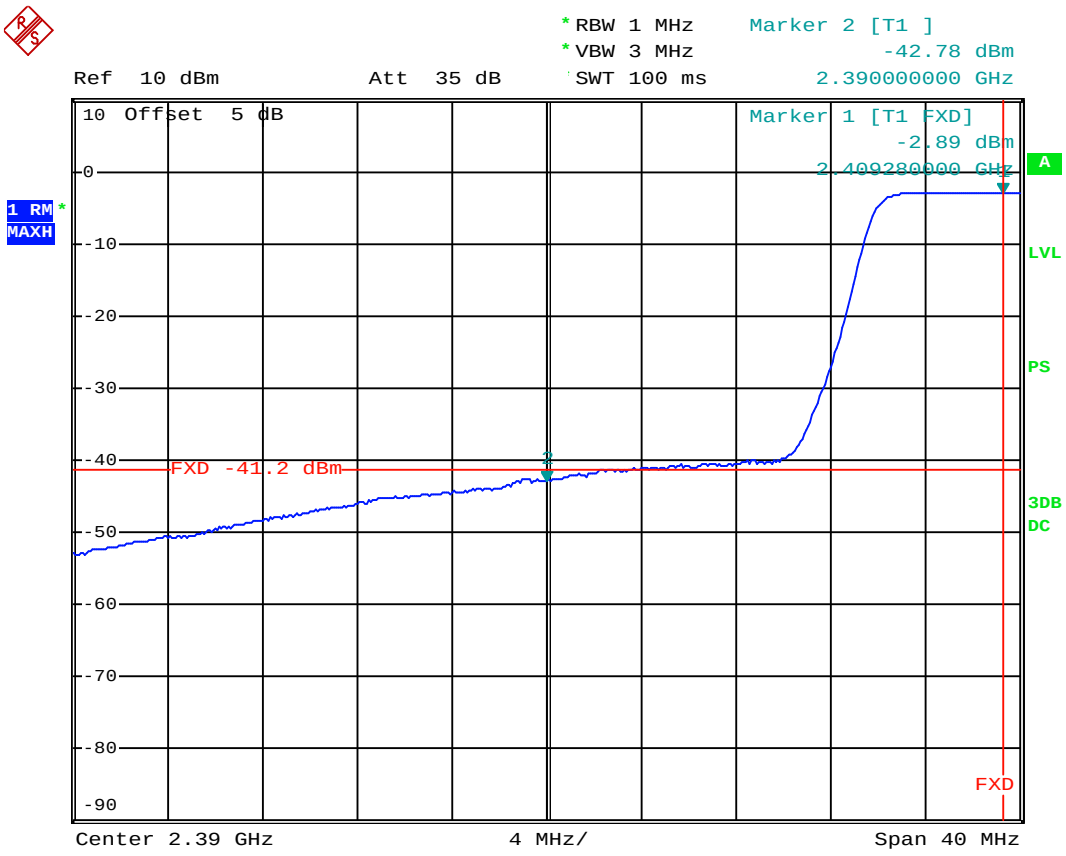
PK Final Result = PK Result - Delta = 102.57 – 44.67 = 57.90 dBuV/m
Limit = 74 dBuV/m
Result is **PASS**



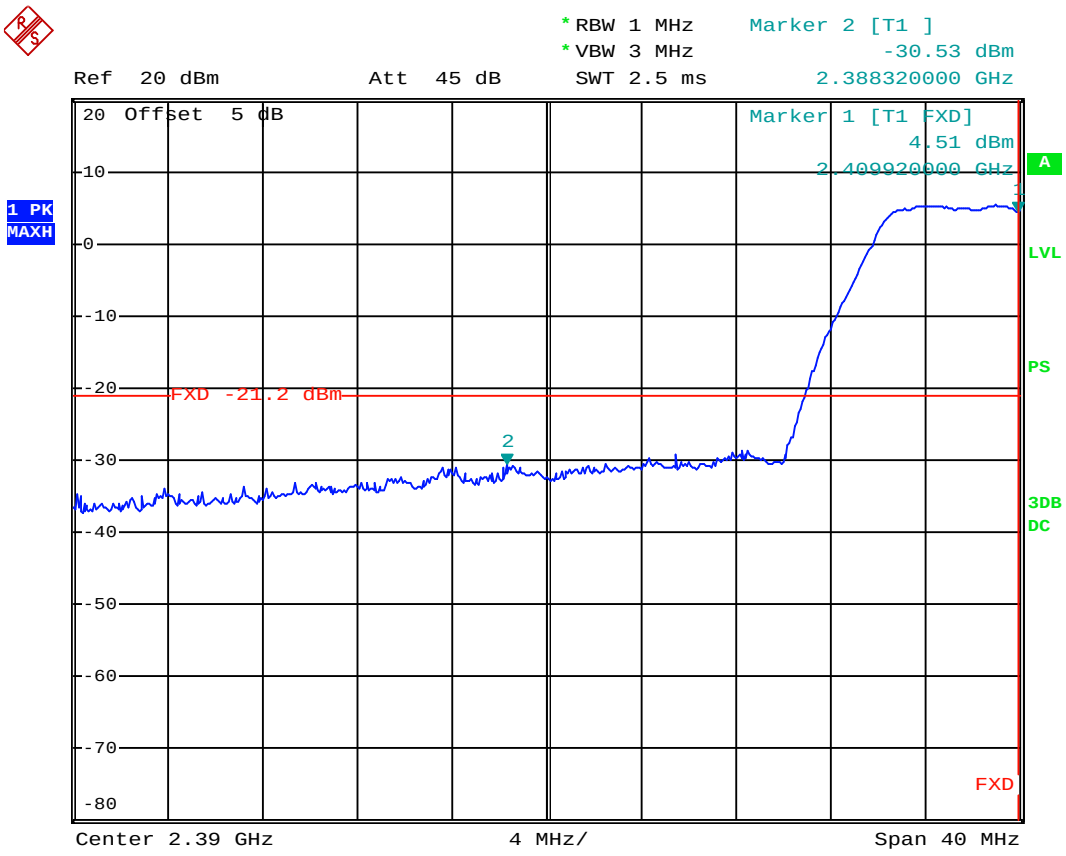

Delta = 44.82 dB

AV Final Result = AV Result - Delta = 92.97 – 44.82 = 48.15 dBuV/m
Limit = 54 dBuV/m
Result is **PASS**

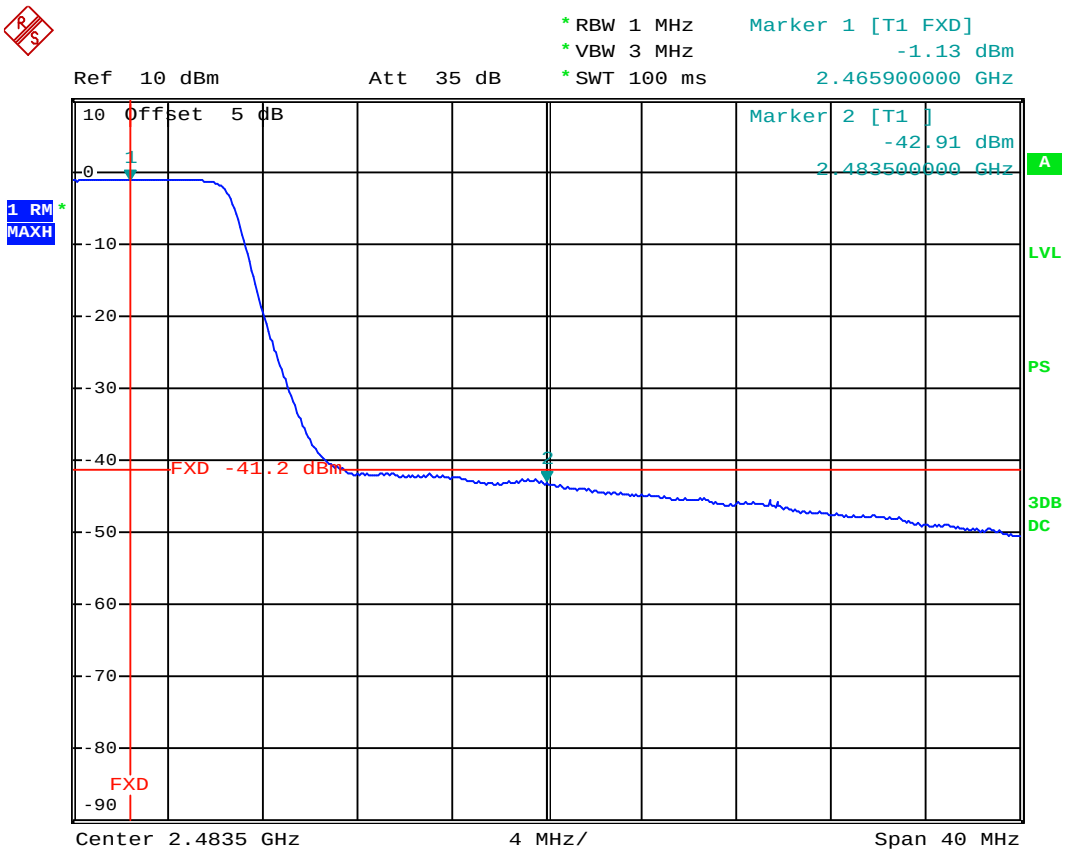
## AV Result on 802.11n HT40 Ch 03



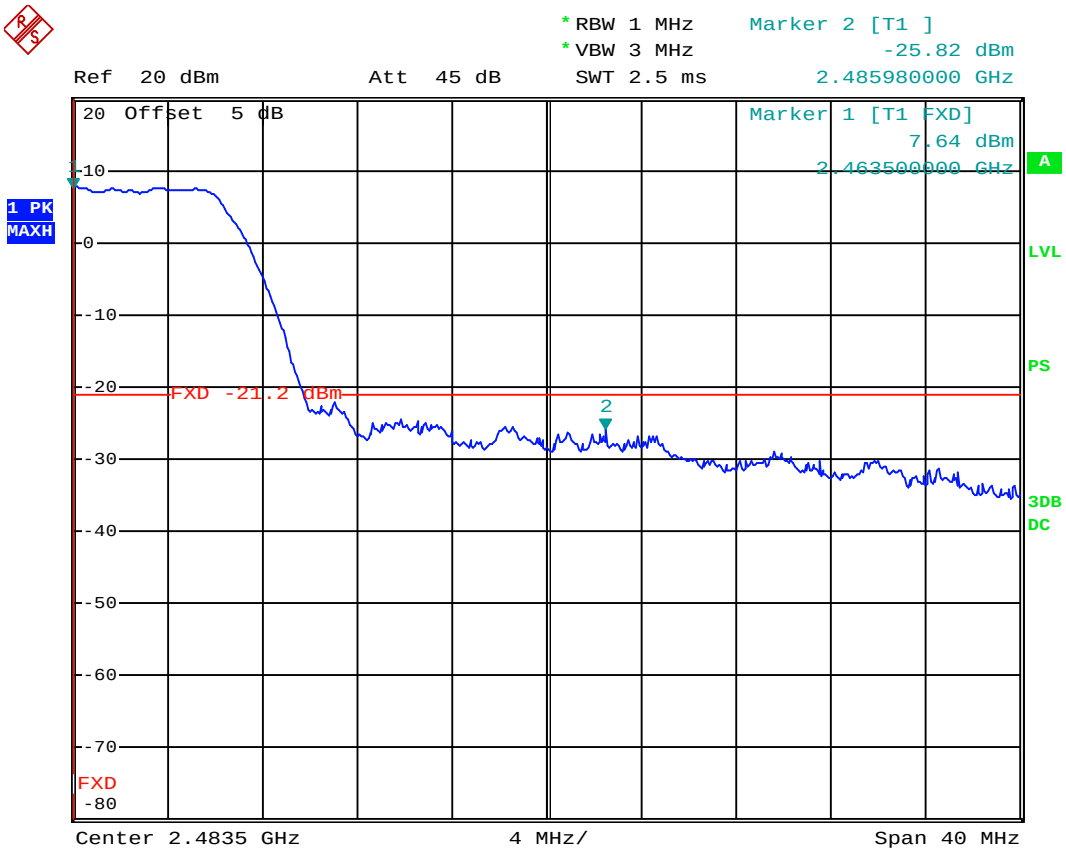

## PK Result on 802.11n HT40 Ch 03



## AV Result on 802.11n HT40 Ch 09




## PK Result on 802.11n HT40 Ch 09



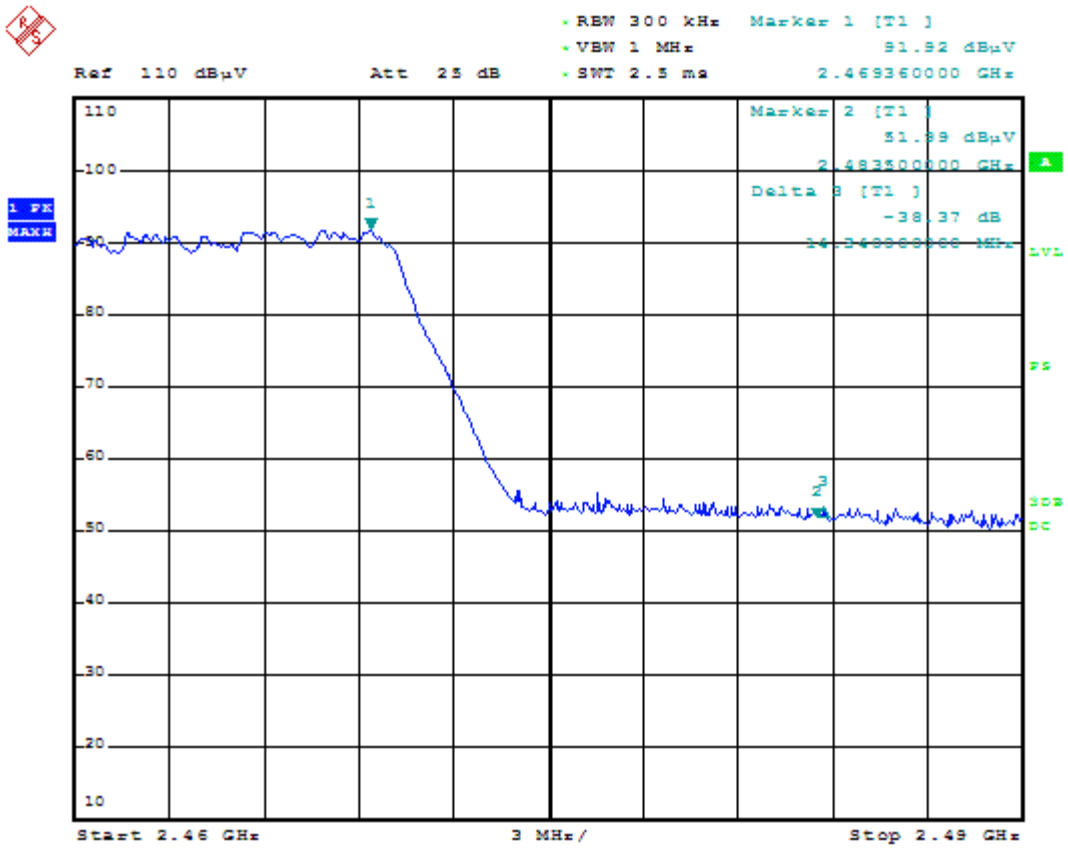
**For Band-Edge measurement, marker-delta method was used to obtain the test result according to FCC KDB 913591.**
**(refer to KDB 558074 D01 v02 sec. 10.2.5.1).**

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature | : | 25℃ |
| Model No. | : | GX1200V | Humidity | : | 45%RH |
| Test Mode | : | 802.11n HT40 Transmitting Ch09 | Date of Test | : | Nov 05, 2012 |

Field strength measurement of the fundamental emission:

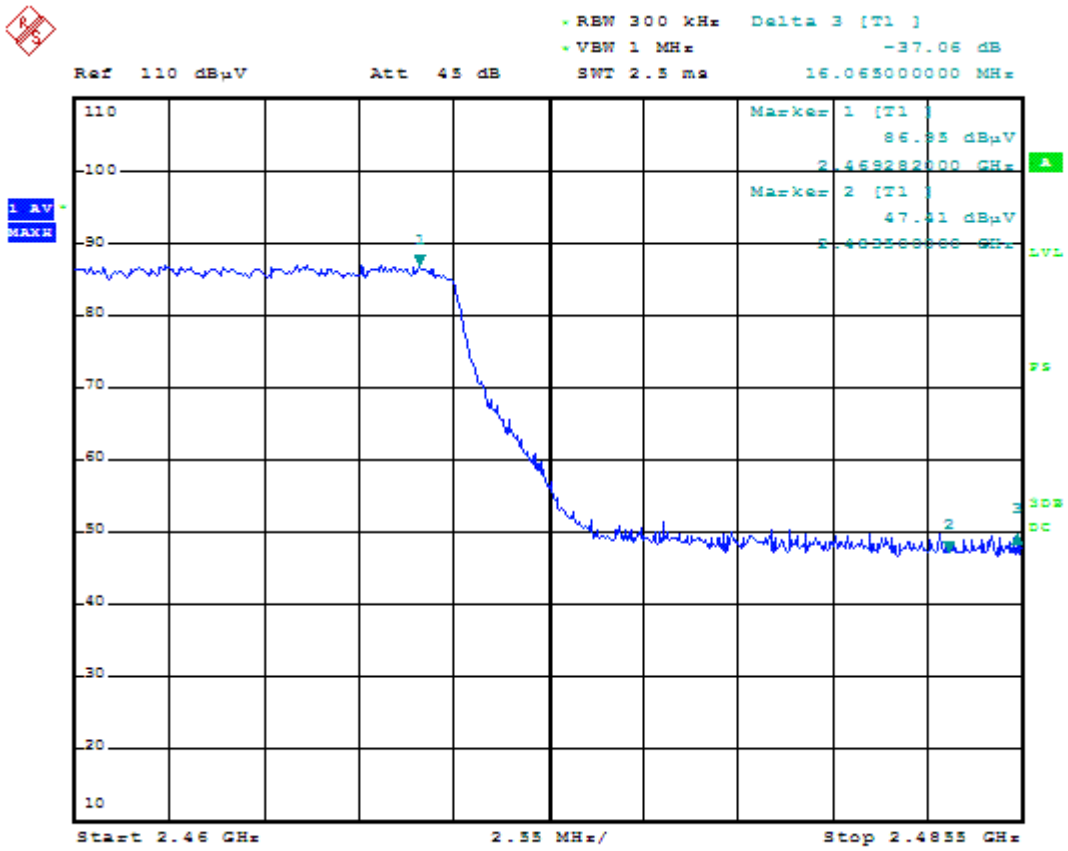
| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Remark |
|---|---|---|---|---|---|---|---|
| Horizontal | 2467.48 | 96.10 | 28.45 | 6.45 | 35.92 | 95.08 | PK |
| | 2467.36 | 87.18 | 28.45 | 6.45 | 35.92 | 86.16 | AV |
| Vertical | 2467.84 | 99.98 | 28.42 | 6.45 | 35.92 | 98.93 | PK |
| | 2467.60 | 91.09 | 28.42 | 6.45 | 35.92 | 90.04 | AV |

**Horizontal**




Delta = 38.37 dB

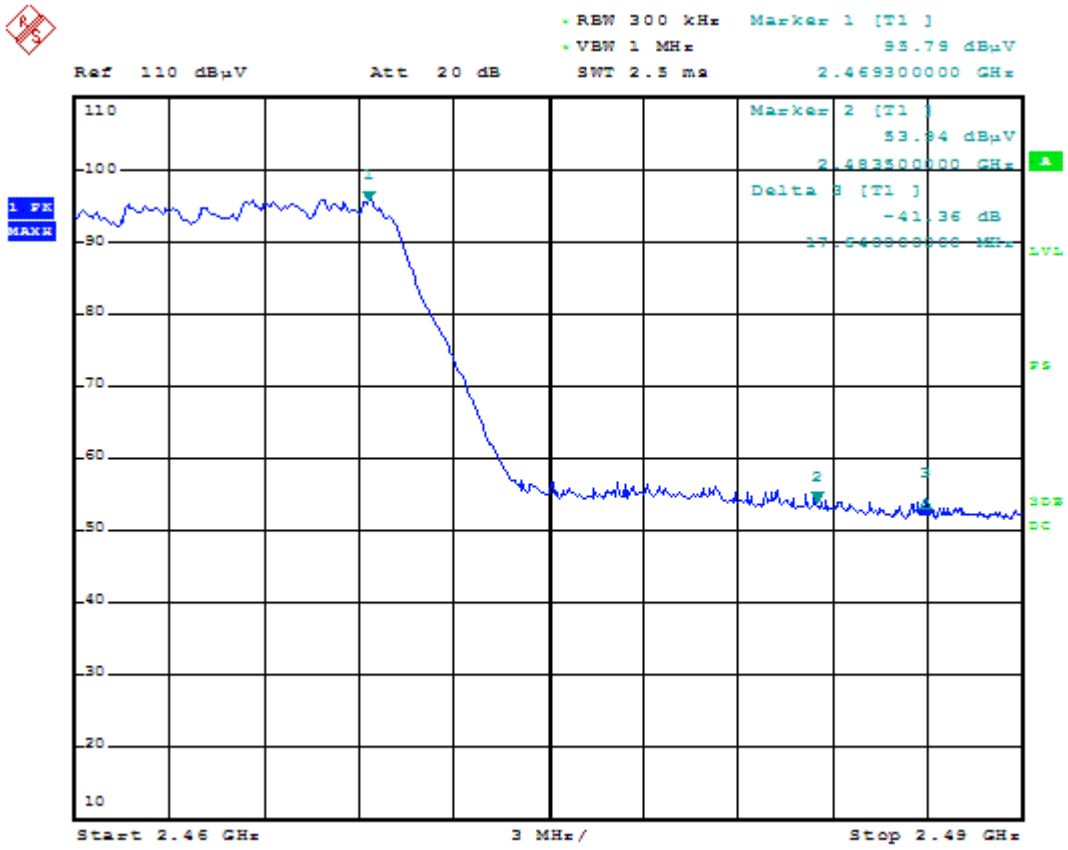
PK Final Result = PK Result - Delta = 95.08 – 38.37 = 56.71 dBuV/m
Limit = 74 dBuV/m
Result is **PASS**




Delta = 37.06 dB

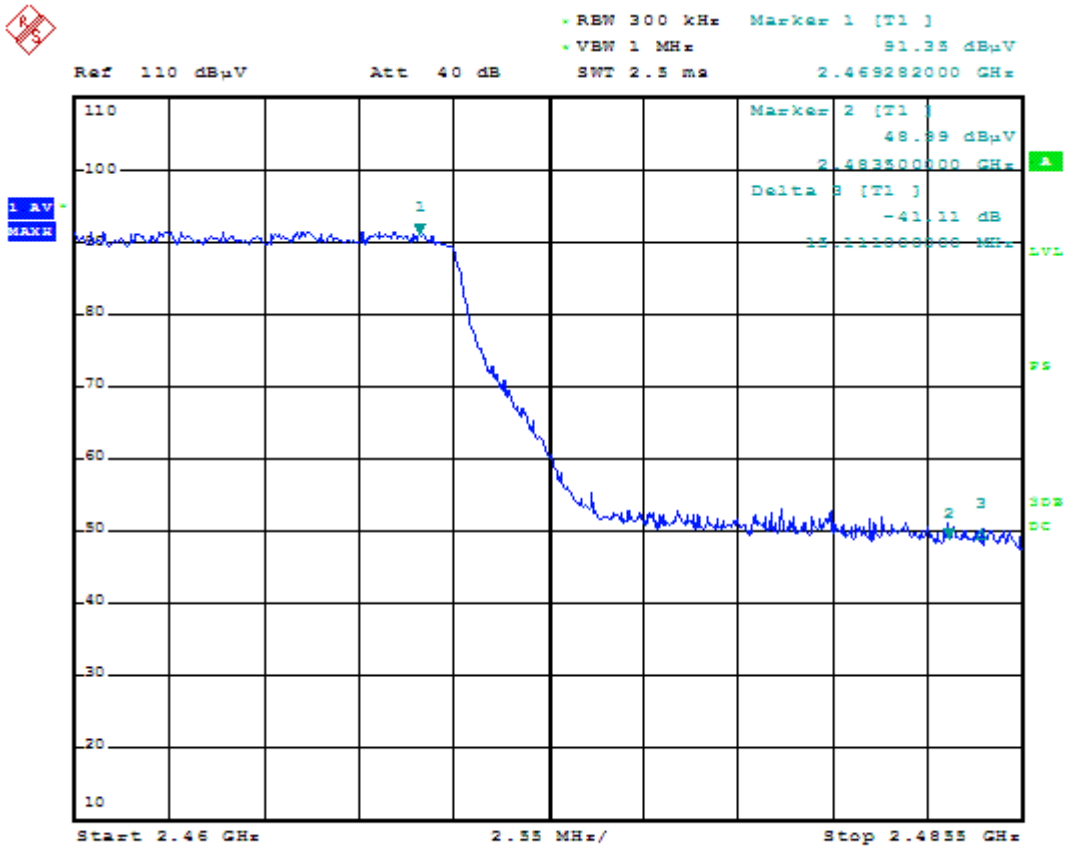
V Final Result = AV Result - Delta = 86.16 – 37.06 = 49.10 dBuV/m
Limit = 54 dBuV/m
Result is **PASS**

**Vertical**




Delta = 41.36 dB

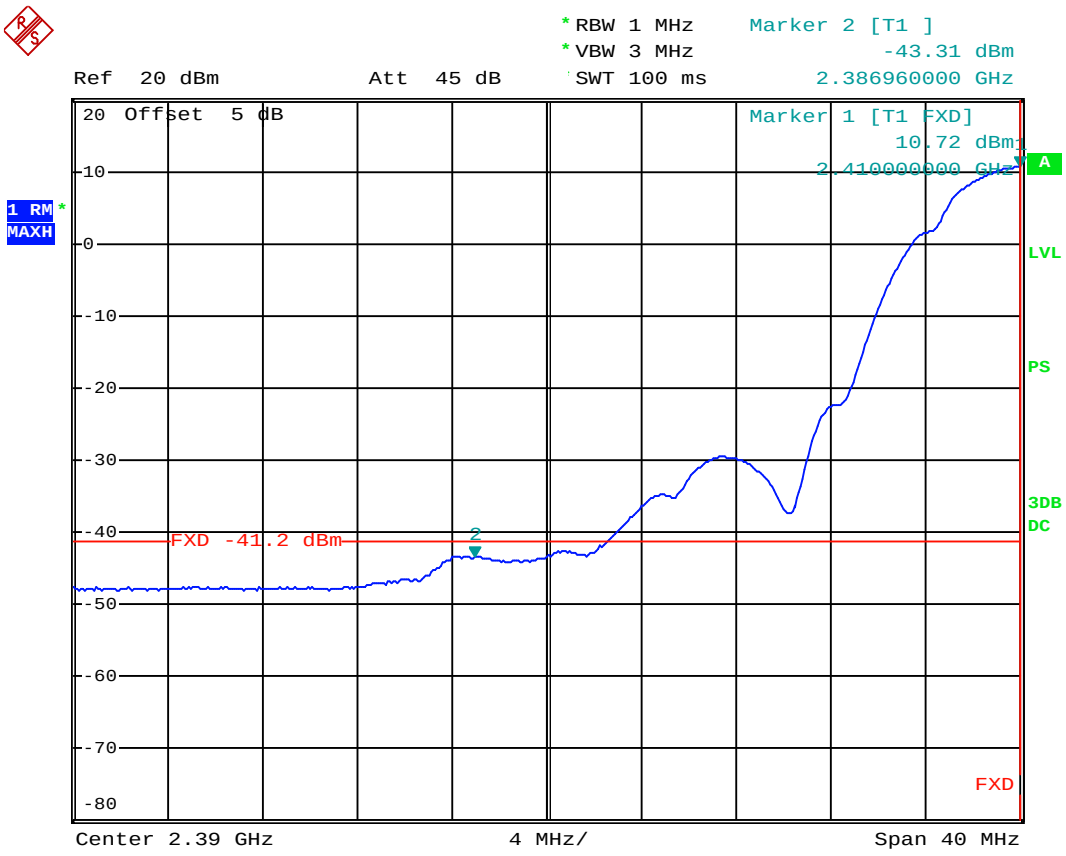
PK Final Result = PK Result - Delta = 98.93 – 41.36 = 57.57 dBuV/m
Limit = 74 dBuV/m
Result is **PASS**



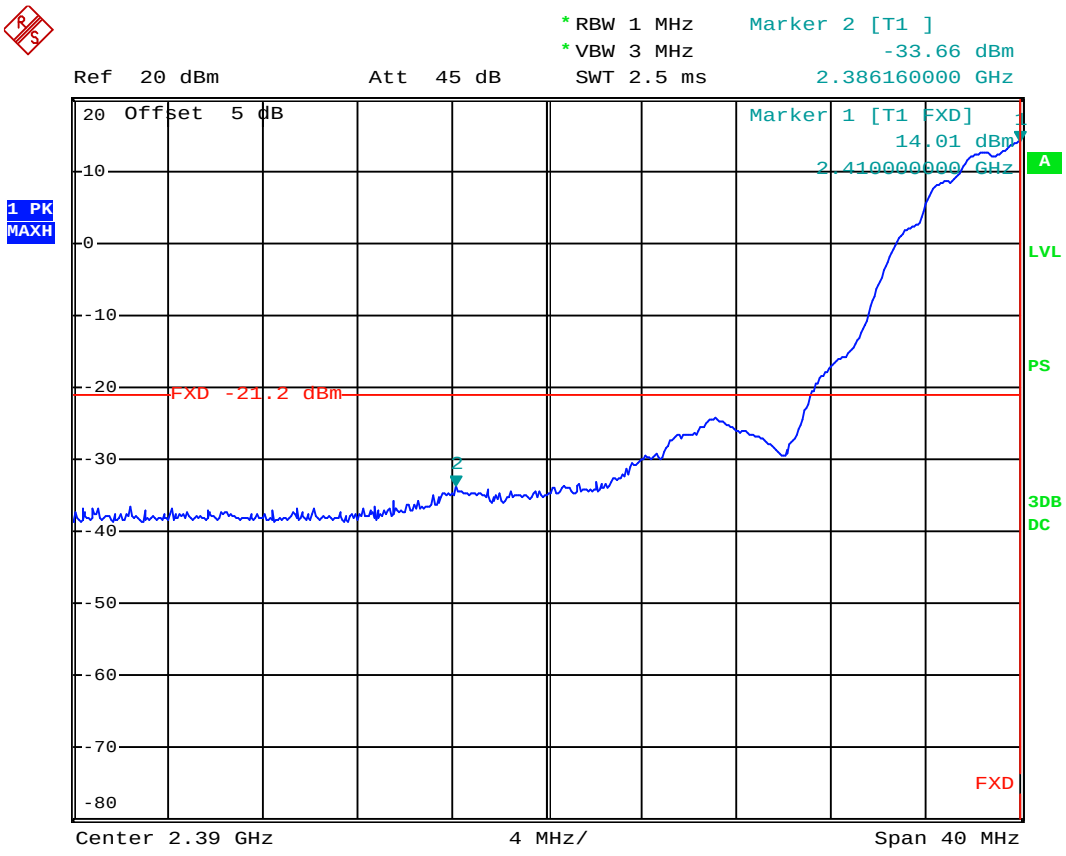

Delta = 41.11 dB

AV Final Result = AV Result - Delta = 90.04 – 41.11 = 48.93 dBuV/m
Limit = 54 dBuV/m
Result is **PASS**

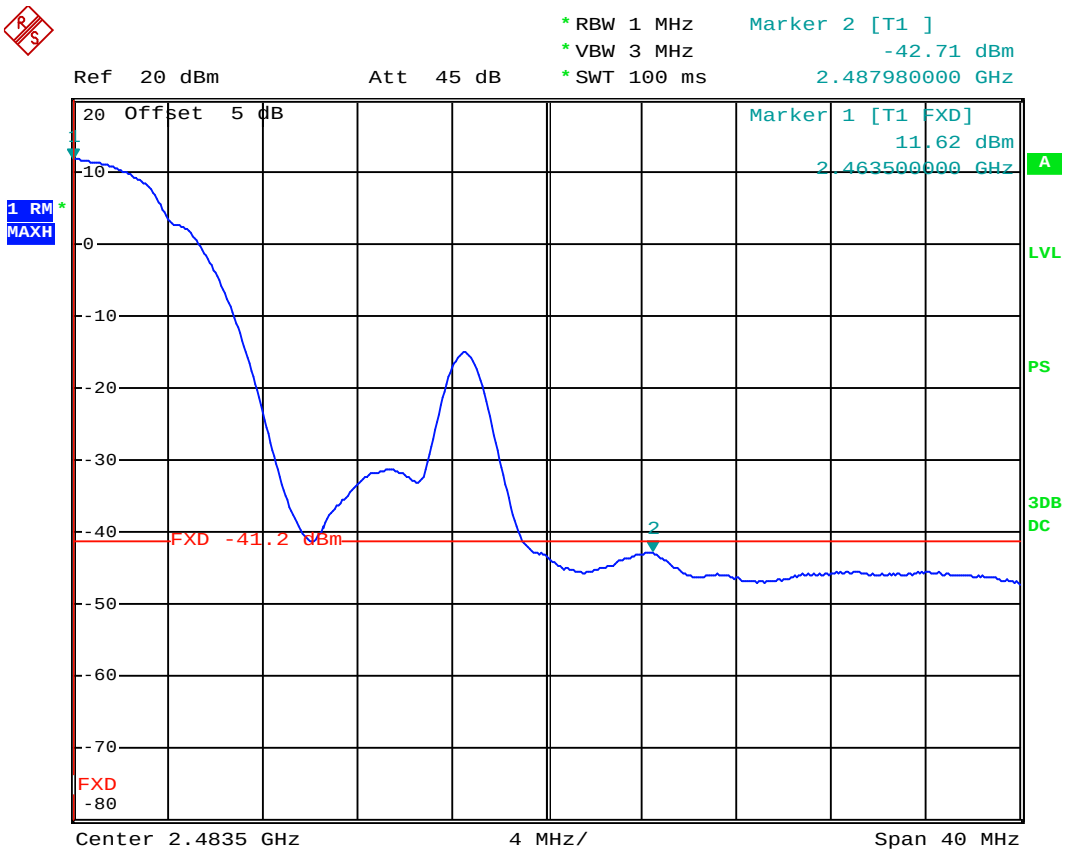
## AV Result on 802.11b Ch 01 (+ BT Ch00)



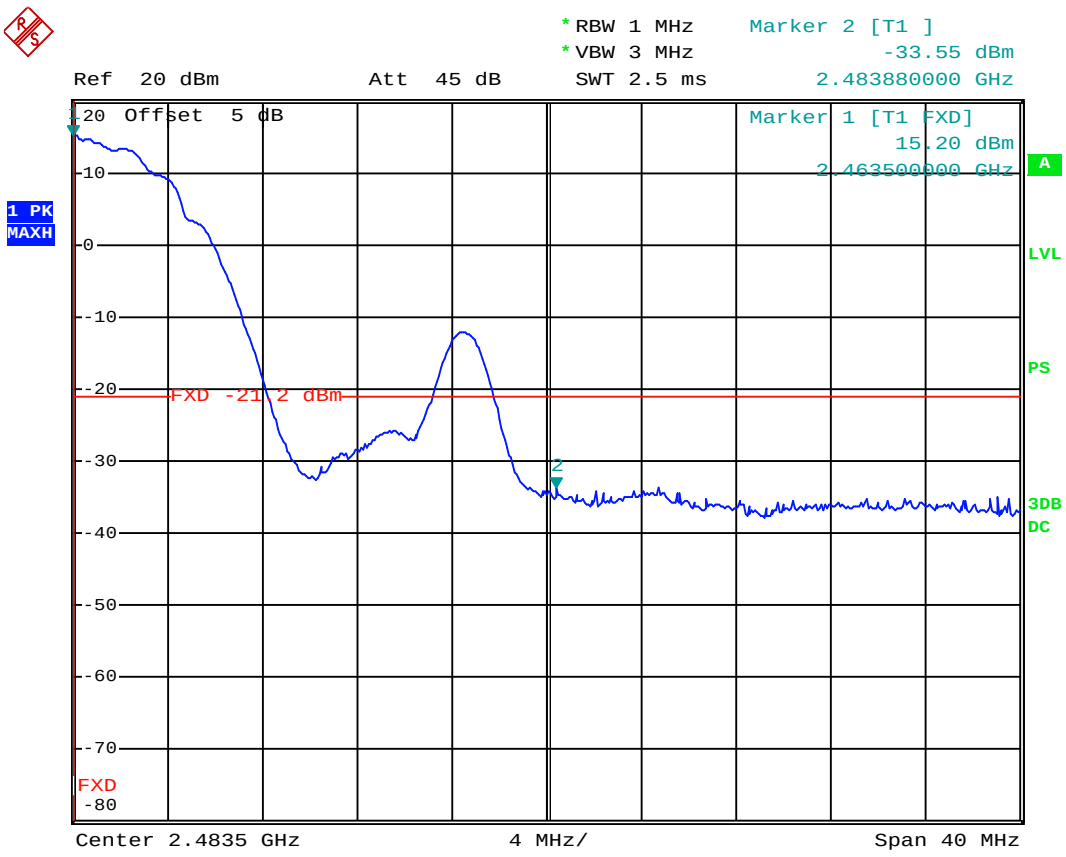

## PK Result on 802.11b Ch 01 (+ BT Ch00)



## AV Result on 802.11b Ch 11 (+ BT Ch78)




## PK Result on 802.11b Ch 11 (+ BT Ch78)



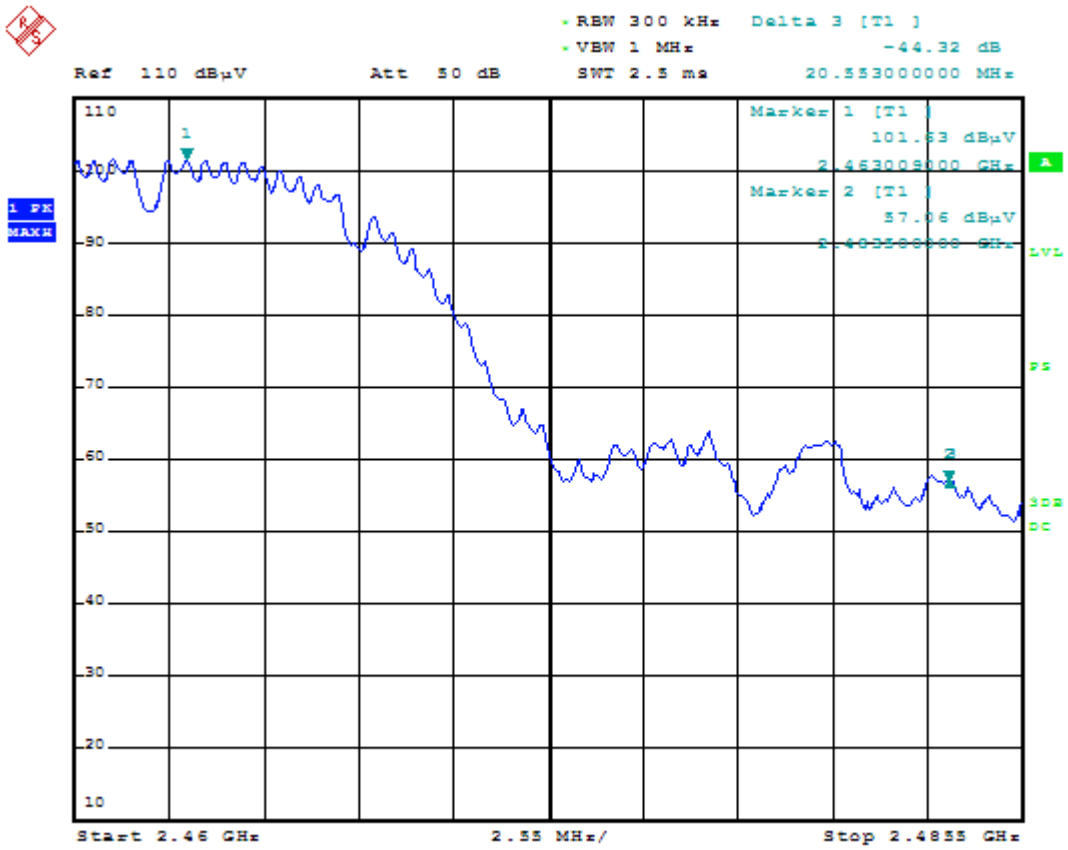
**For Band-Edge measurement, marker-delta method was used to obtain the test result according to FCC KDB 913591.**
**(refer to KDB 558074 D01 v02 sec. 10.2.5.1).**

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | NETWORK MEDIA PLAYER | Temperature | : | 25℃ |
| Model No. | : | GX1200V | Humidity | : | 45%RH |
| Test Mode | : | 802.11b Ch11 + BT Ch78 Transmitting | Date of Test | : | Nov 05, 2012 |

Field strength measurement of the fundamental emission:

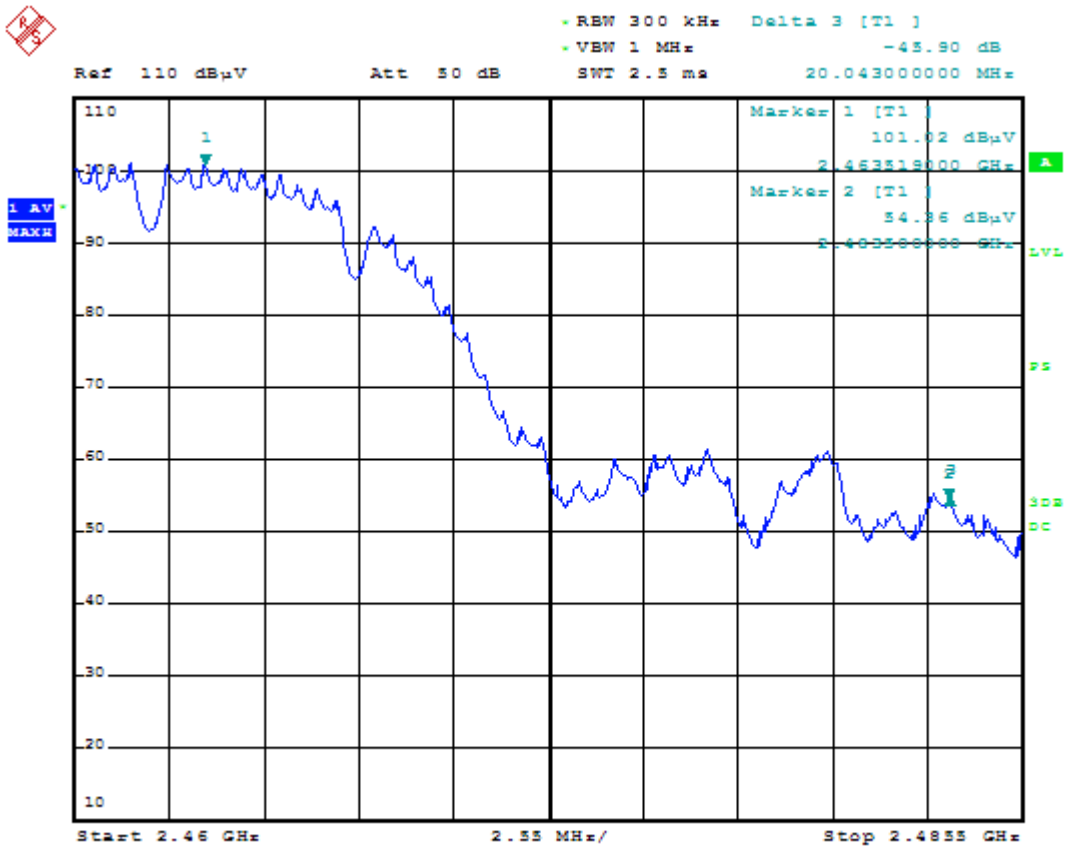
| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level dB (μV/m) | Remark |
|---|---|---|---|---|---|---|---|
| Horizontal | 2463.08 | 100.17 | 28.45 | 6.45 | 35.92 | 99.15 | PK |
| | 2462.84 | 95 90 | 28.45 | 6.45 | 35.92 | 94.88 | AV |
| Vertical | 2463.08 | 104.78 | 28.45 | 6.45 | 35.92 | 103.76 | PK |
| | 2462.84 | 99.85 | 28.45 | 6.45 | 35.92 | 98.83 | AV |

**Horizontal**




Delta = 44.32 dB

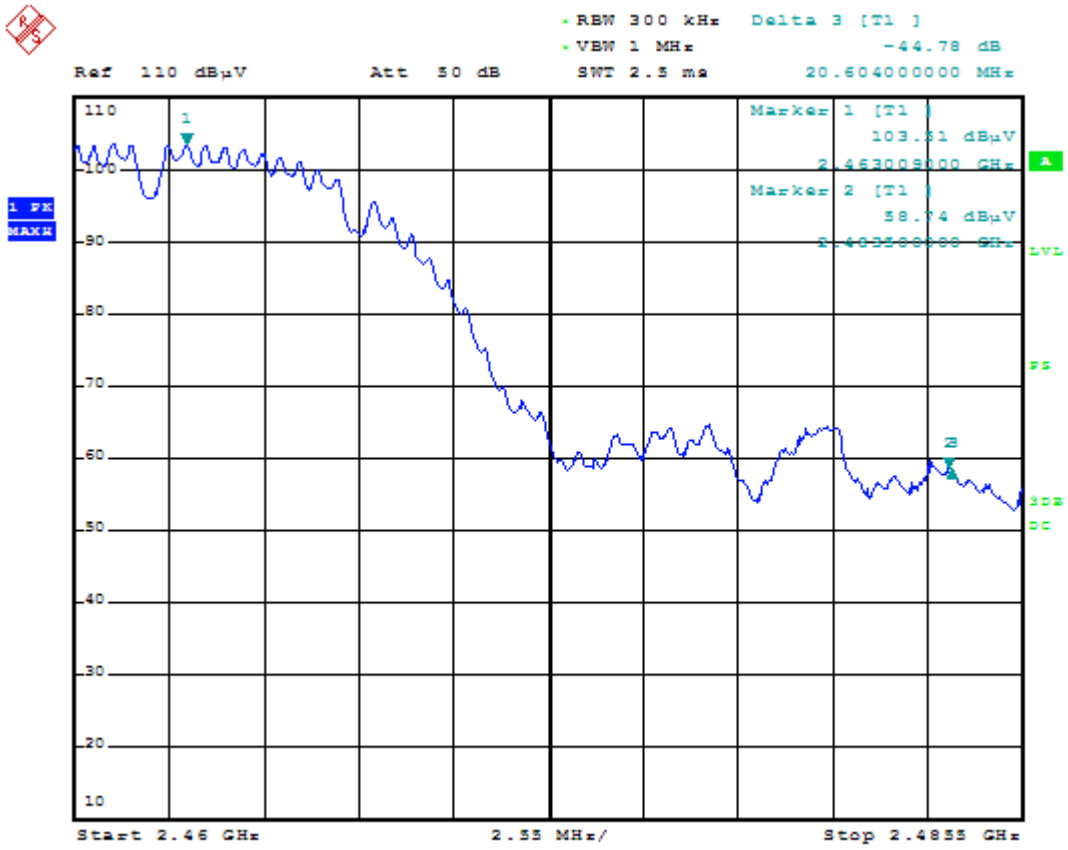
PK Final Result = PK Result - Delta = 99.15 – 44.32 = 54.83 dBuV/m
Limit = 74 dBuV/m
Result is **PASS**




Delta = 45.90 dB

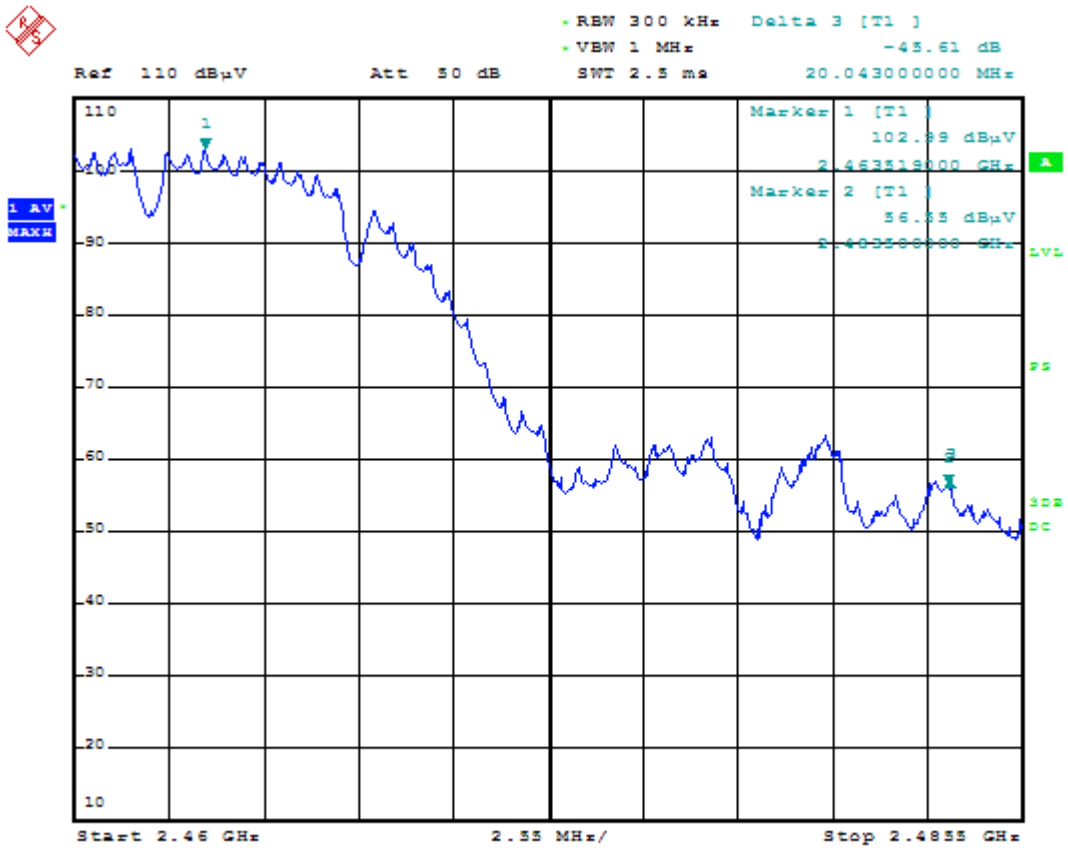
AV Final Result = AV Result - Delta = 94.88 – 45.90 = 48.98 dBuV/m
Limit = 54 dBuV/m
Result is **PASS**

**Vertical**




Delta = 44.78 dB

PK Final Result = PK Result - Delta = 103.76 – 44.78 = 58.98 dBuV/m
Limit = 74 dBuV/m
Result is **PASS**




Delta = 45.61 dB

AV Final Result = AV Result - Delta = 98.83 – 45.61 = 53.22 dBuV/m
Limit = 54 dBuV/m
Result is **PASS**

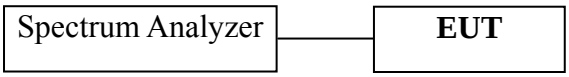
# 5 6 dB BANDWIDTH MEASUREMENT

## 5.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | R&S | ESCI | 101303 | Sep 11, 2012 | Sep 11, 2013 |

## 5.2 Block Diagram of Test Setup




## 5.3 Specification Limits (§15.247(a)(2))

The minimum 6 dB bandwidth shall be at least 500 kHz.

## 5.4 Operating Condition of EUT

The test program "Hyper-Terminal" was used to enable the EUT to transmit data at different channel frequency individually.

## 5.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100 kHz RBW / 300 kHz VBW.
The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
The test procedure is defined in KDB558074 v02:2012 (the 7.1 Measurement Procedure "Option 1" was used).

## 5.6 Test Results

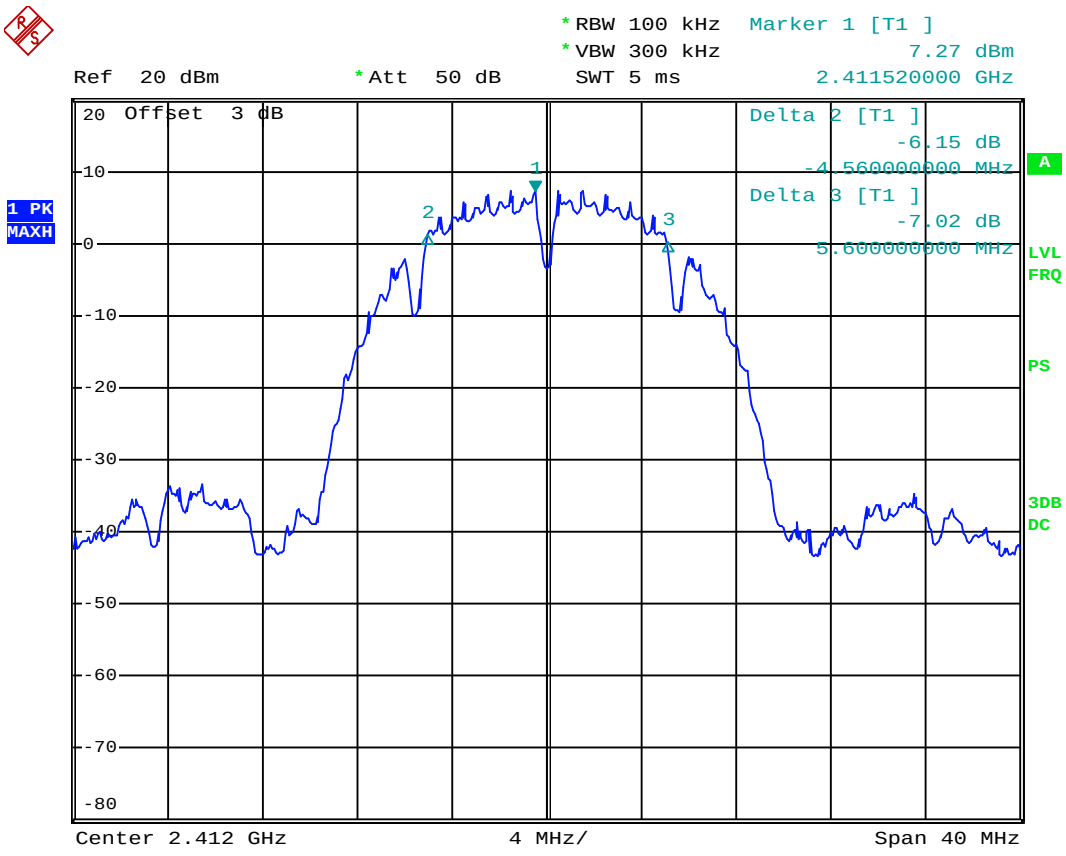
**PASSED.**

All the test results are attached in next pages.

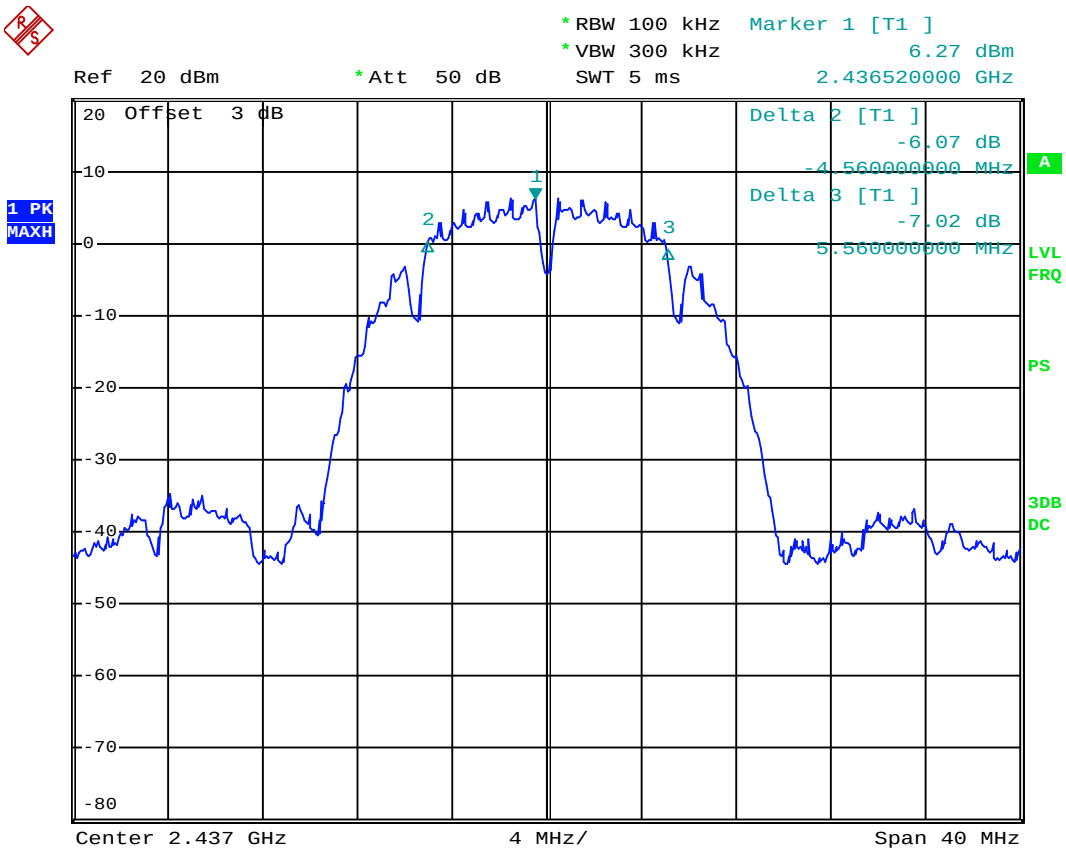
(Test Date: Nov. 01, 2012 Temperature: 24℃ Humidity: 45 %)

| Modulation | Channel | Frequency | **6dB Bandwidth** |
|---|---|---|---|
| 802.11b | 01 | 2412 MHz | **10.16 MHz** |
| | 06 | 2437 MHz | **10.12 MHz** |
| | 11 | 2462 MHz | **10.24 MHz** |
| 802.11g | 01 | 2412 MHz | **16.64 MHz** |
| | 06 | 2437 MHz | **16.76 MHz** |
| | 11 | 2462 MHz | **16.80 MHz** |
| 802.11n HT20 | 01 | 2412 MHz | **17.92 MHz** |
| | 06 | 2437 MHz | **17.88 MHz** |
| | 11 | 2462 MHz | **17.92 MHz** |
| 802.11n HT40 | 03 | 2422 MHz | **36.72 MHz** |
| | 06 | 2437 MHz | **36.68 MHz** |
| | 09 | 2452 MHz | **36.68 MHz** |

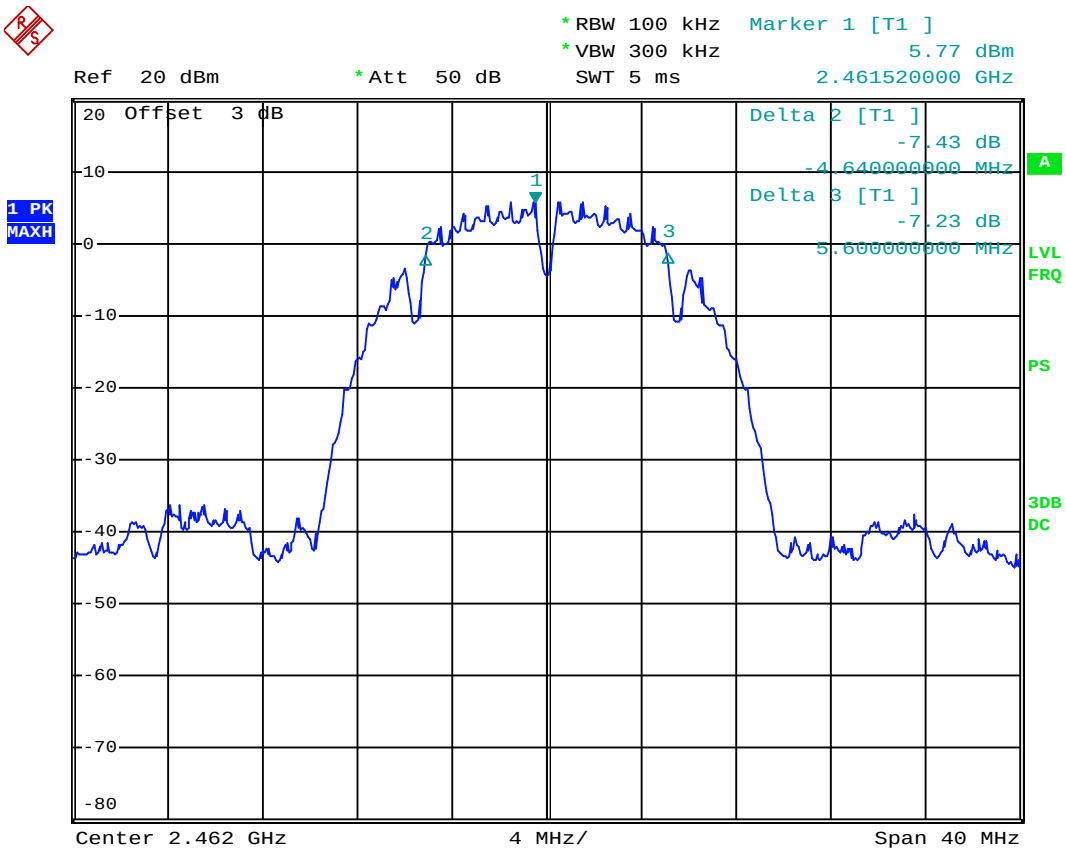
## 802.11b Ch 01 (2412 MHz)



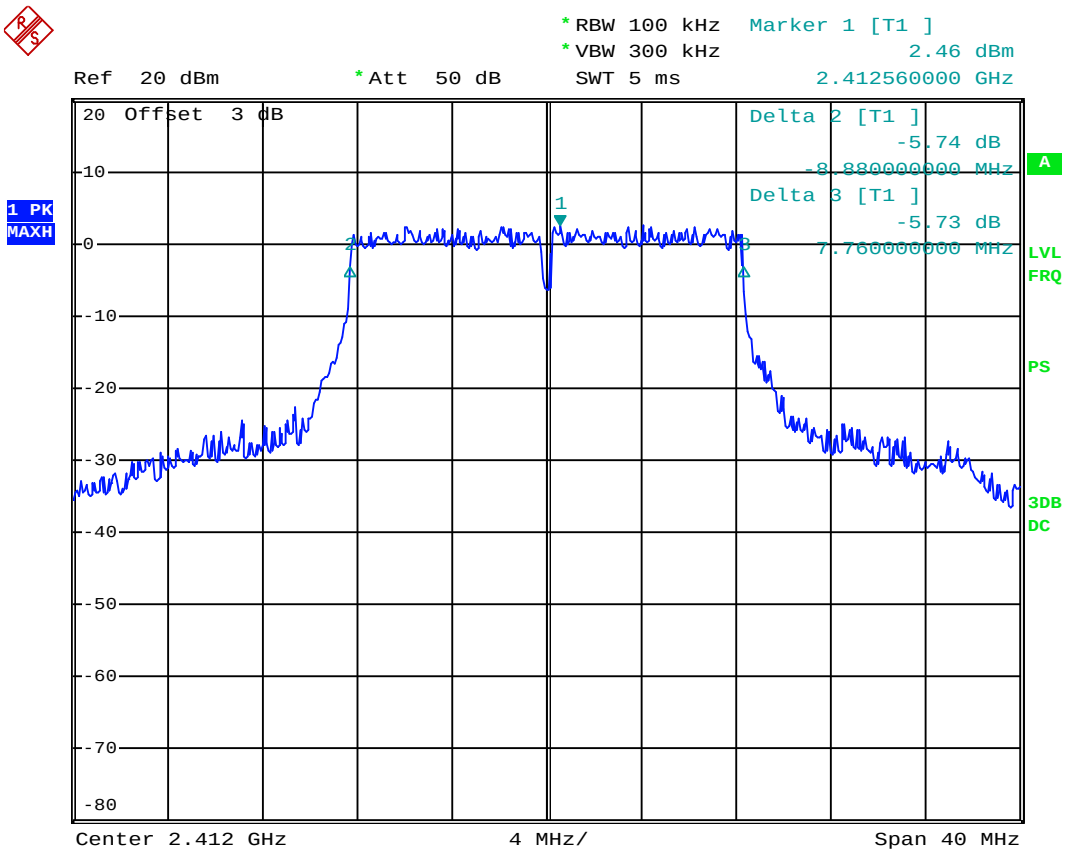

## 802.11b Ch 06 (2437 MHz)



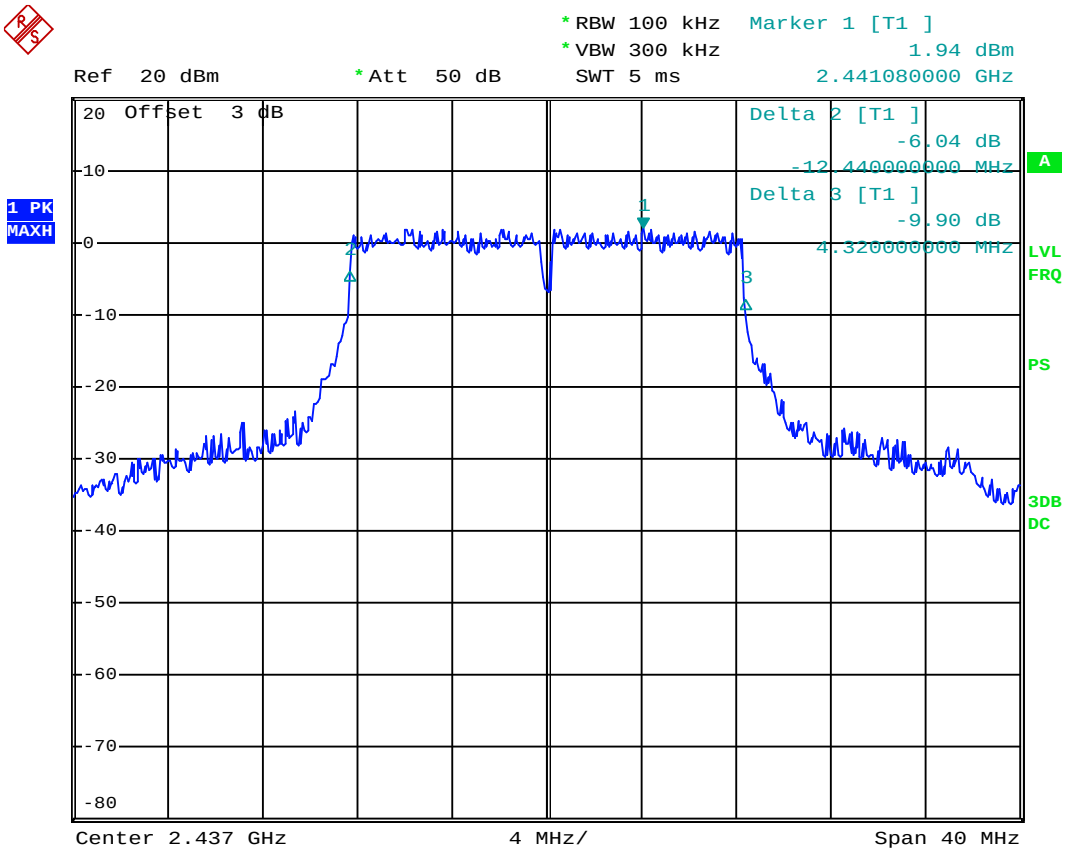
## 802.11b Ch 11 (2462 MHz)



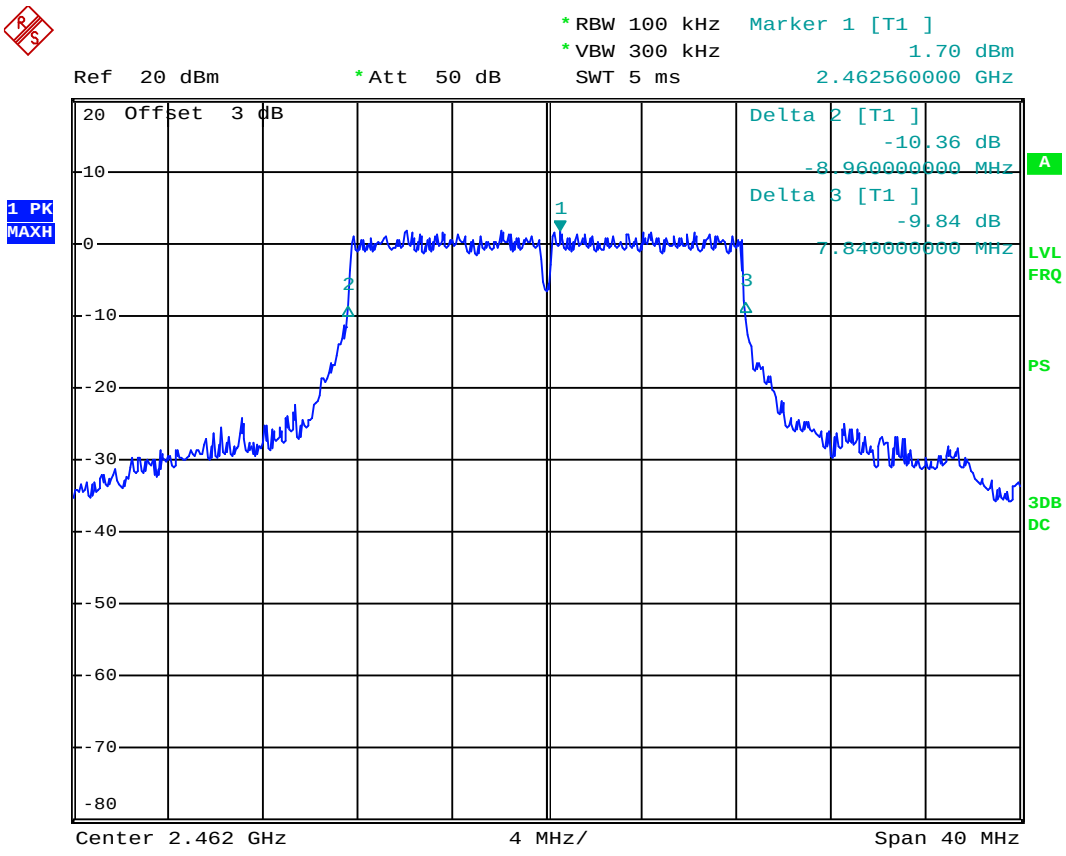
## 802.11g Ch 01 (2412 MHz)



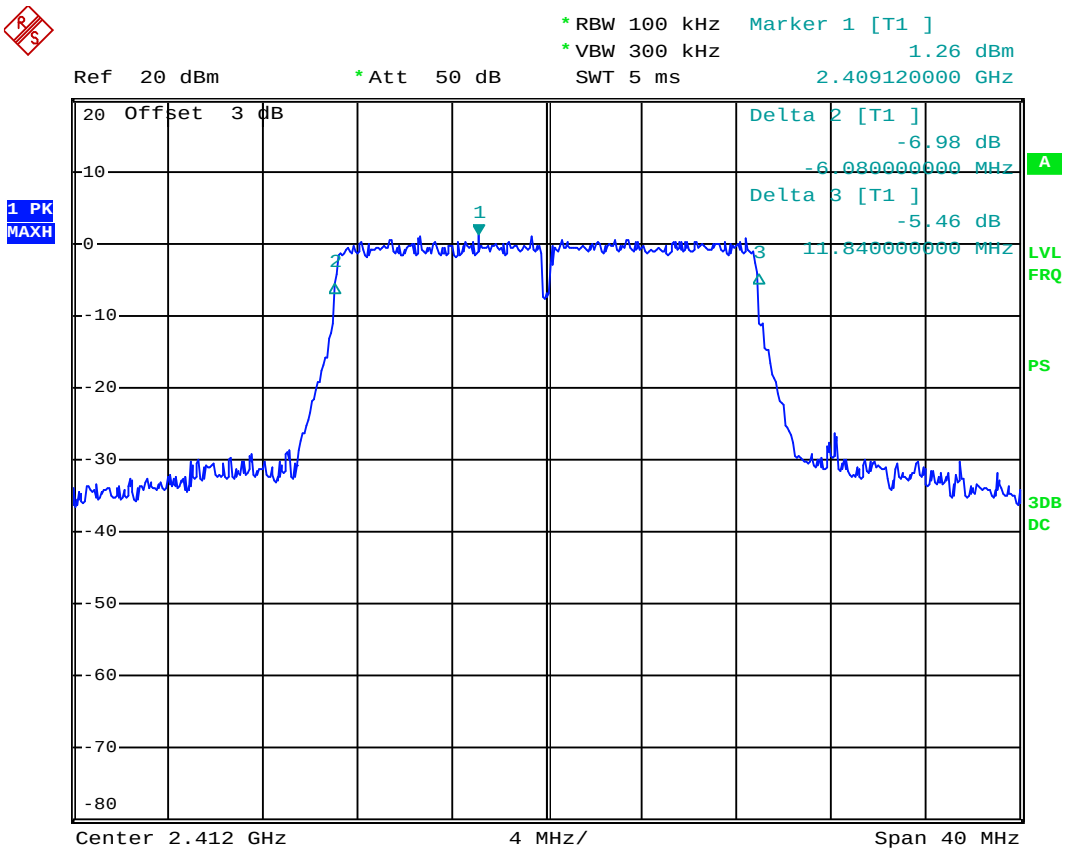

## 802.11g Ch 06 (2437 MHz)



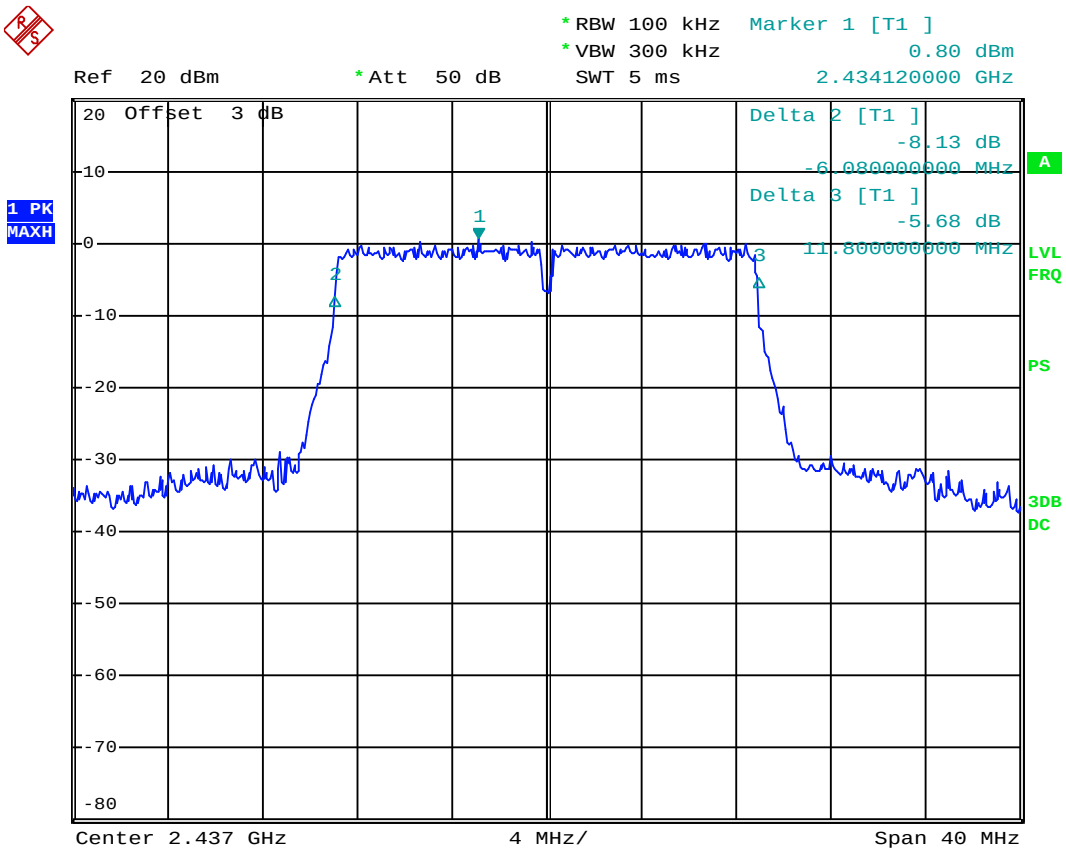
## 802.11g Ch 11 (2462 MHz)



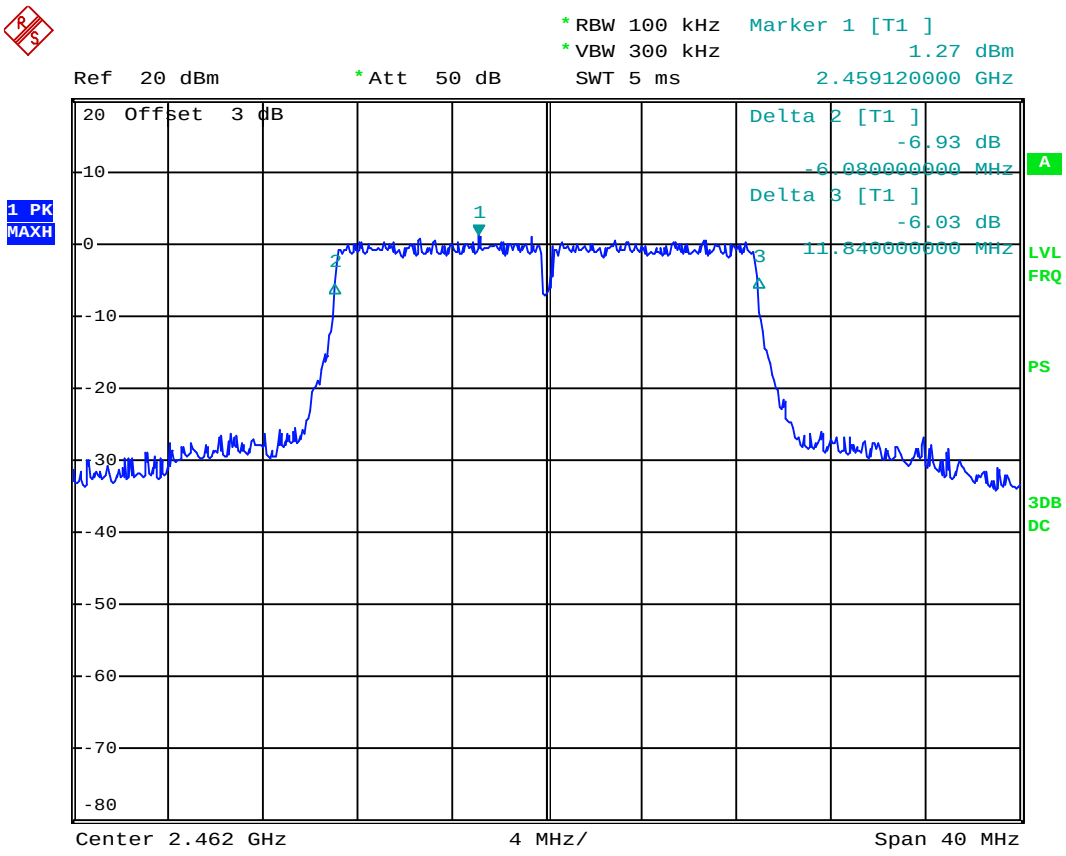
## 802.11n HT20 Ch 01 (2412 MHz)



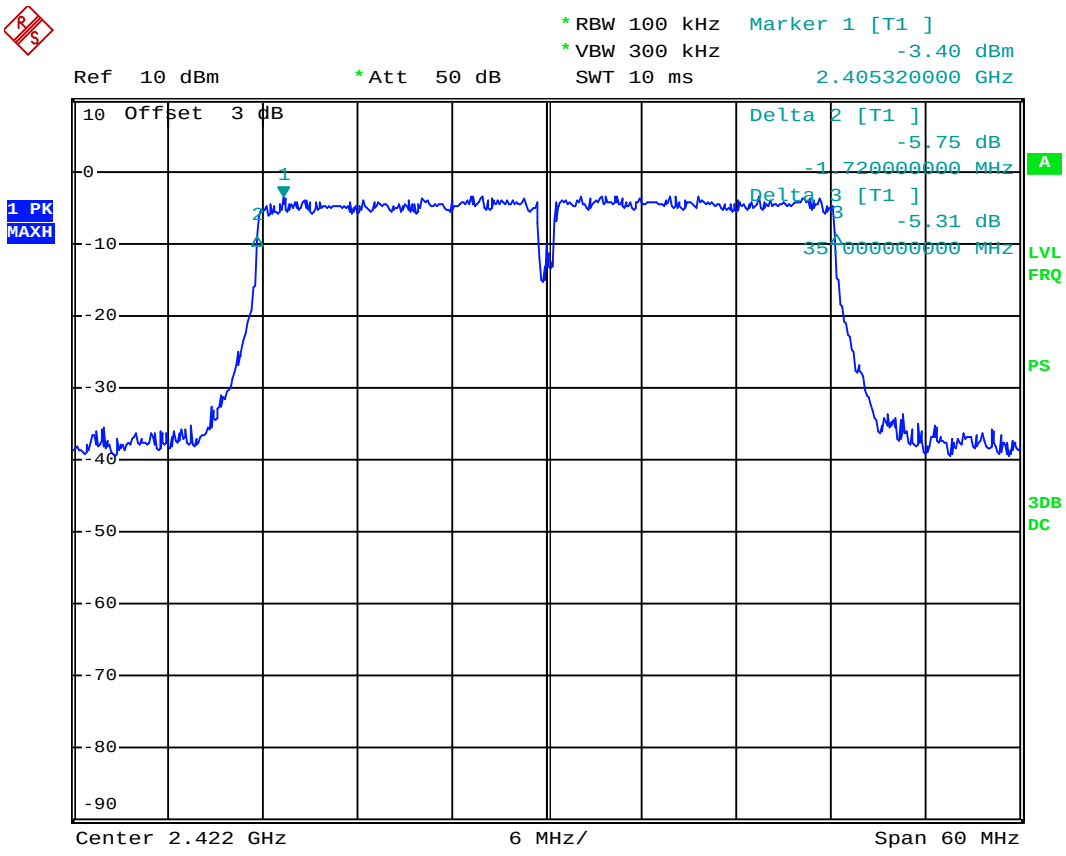

## 802.11n HT20 Ch 06 (2437 MHz)



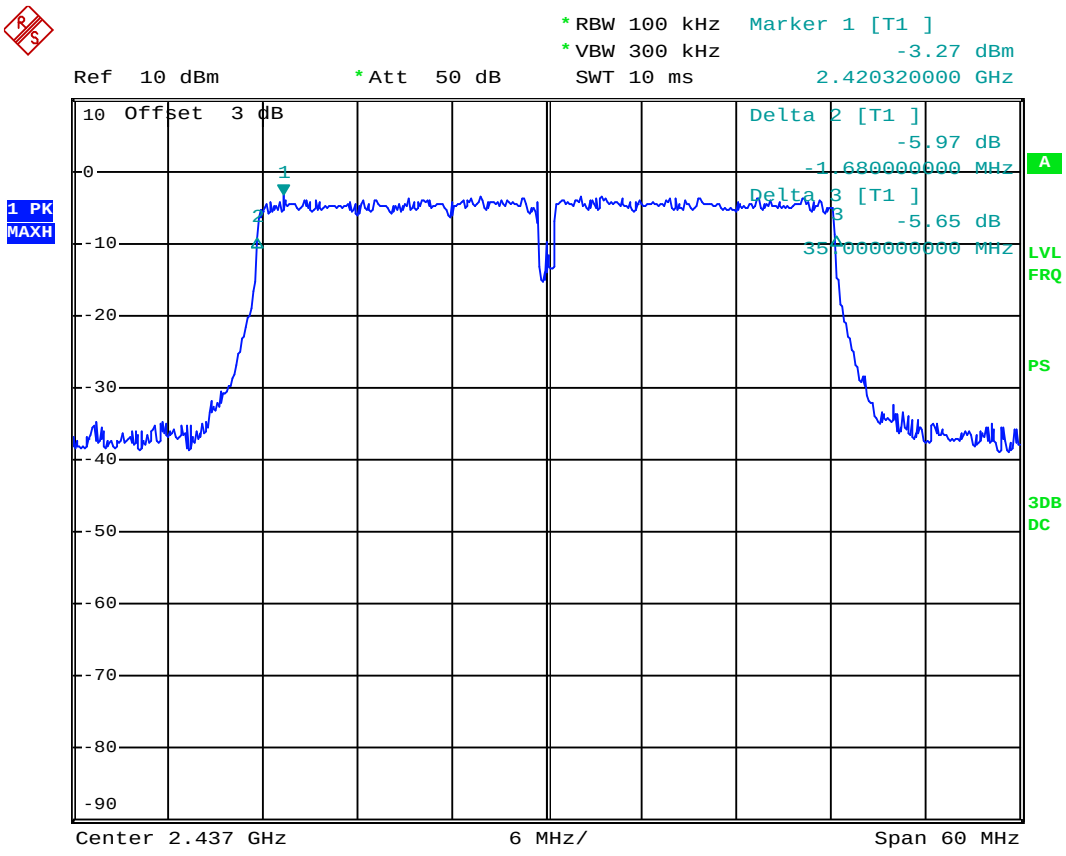
## 802.11n HT20 Ch 11 (2462 MHz)



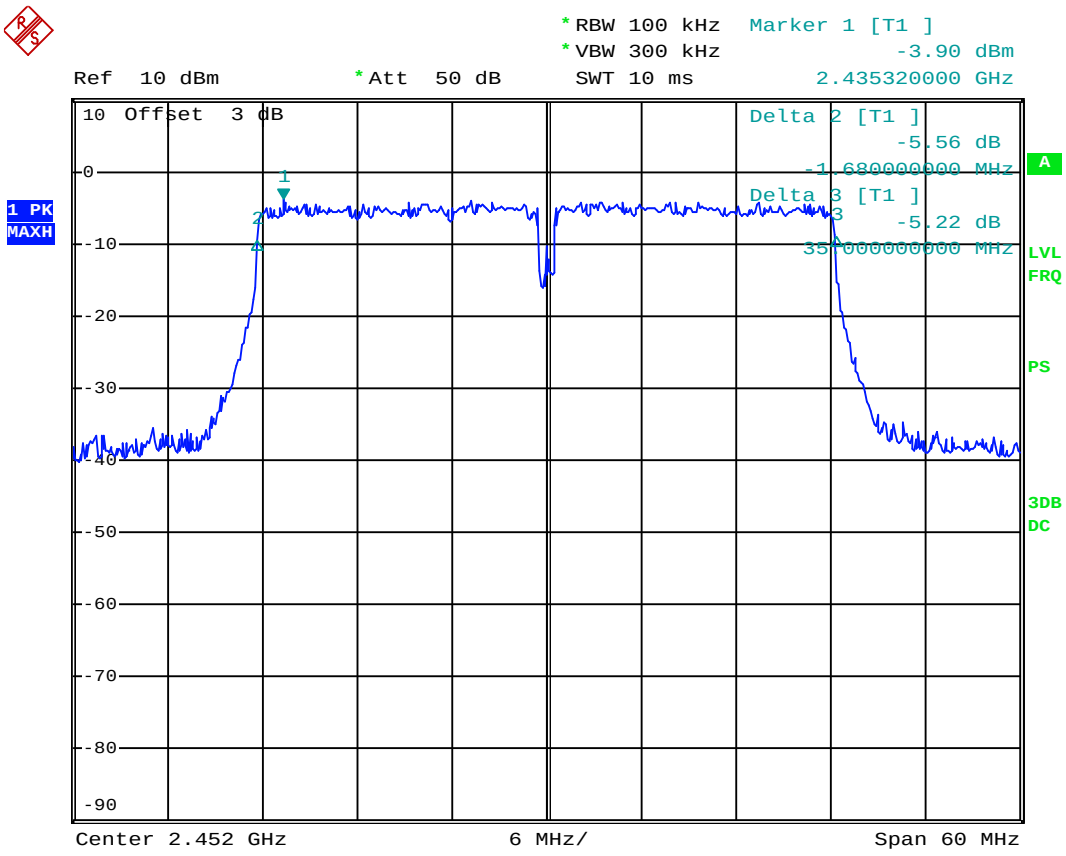
## 802.11n HT40 Ch 03 (2422 MHz)




## 802.11n HT40 Ch 06 (2437 MHz)



## 802.11n HT40 Ch 09 (2452 MHz)



# 6 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

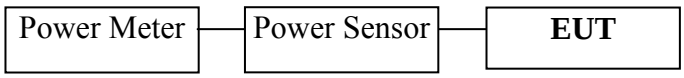
## 6.1 Test Equipment

The following test equipment was used during the maximum peak output power measurement:

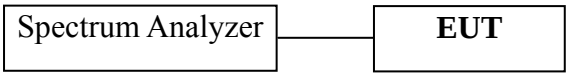
| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Power Meter | Anritsu | ML2487A | 6K00003245 | Mar 22, 2012 | Mar 22, 2013 |
| 2. | Power Sensor | Anritsu | MA2491A | 32489 | Mar 22, 2012 | Mar 22, 2013 |
| 3. | Test Receiver | R&S | ESCI | 101303 | Sep 11, 2012 | Sep 11, 2013 |

## 6.2 Block Diagram of Test Setup

For 802.11b/g/n HT20




For 802.11n HT40




## 6.3 Specification Limits ((§15.247(b)(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5 MHz is: 1 Watt. (30 dBm)

## 6.4 Operating Condition of EUT

The test program "Hyper-Terminal" was used to enable the EUT to transmit data at different channel frequency individually.

## 6.5 Test Procedure

This is an RF conducted test.

For 802.11b/g/n HT20:
Use a direct connection between the antenna port of the transmitter and the power meter, through suitable attenuation. We use Power Output Option 1 (which defined in KDB558074) to measure the power output. Power Output Option 1 is a peak measurement. The transmitter output was connected to the power meter that was designed to detect peak value automatically.
Note: The bandwidth of the power meter is 20MHz.

For 802.11n HT40:
The transmitter output was connected to the spectrum analyzer. The spectrum analyzer was set as RBW = 10MHz (maximum available), VBW = 10MHz (maximum available setting (must be ≥ RBW)), span to fully encompass the DTS bandwidth. Use the spectrum analyzer's band power measurement function with the band limits set equal to the DTS bandwidth edges.
The test procedure is defined in KDB558074 v02:2012 (the 8.1.2 Measurement Procedure "Option 2 (channel integration method)" was used).

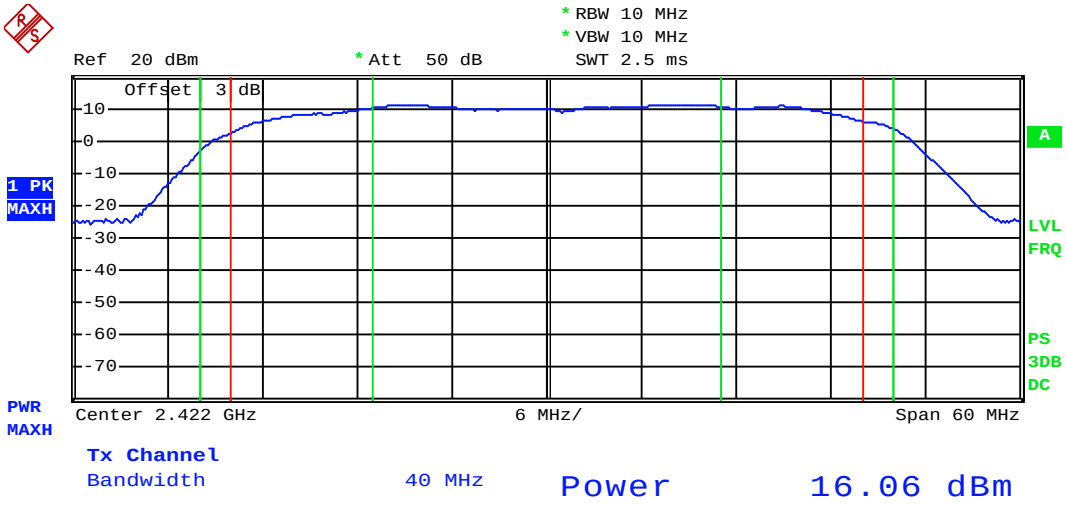
## 6.6 Test Results

**PASSED.** All the test results are listed below.

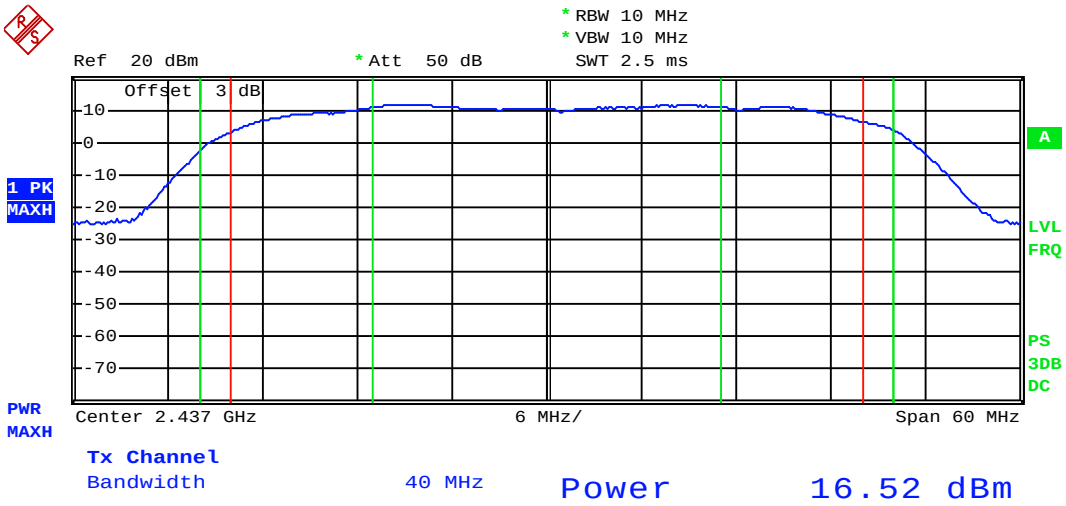
(Test Date: Nov. 01, 2012 Temperature: 24℃ Humidity: 45 %)

| Modulation | Channel | Frequency | **Peak Output Power** | Limit |
|---|---|---|---|---|
| 802.11b | 01 | 2412 MHz | **15.20 dBm** | 30 dBm |
| | 06 | 2437 MHz | **15.57 dBm** | 30 dBm |
| | 11 | 2462 MHz | **15.58 dBm** | 30 dBm |
| 802.11g | 01 | 2412 MHz | **16.40 dBm** | 30 dBm |
| | 06 | 2437 MHz | **16.54 dBm** | 30 dBm |
| | 11 | 2462 MHz | **16.53 dBm** | 30 dBm |
| 802.11n HT20 | 01 | 2412 MHz | **15.25 dBm** | 30 dBm |
| | 06 | 2437 MHz | **15.26 dBm** | 30 dBm |
| | 11 | 2462 MHz | **15.32 dBm** | 30 dBm |
| 802.11n HT40 | 03 | 2422 MHz | **16.06 dBm** | 30 dBm |
| | 06 | 2437 MHz | **16.52 dBm** | 30 dBm |
| | 09 | 2452 MHz | **16.57 dBm** | 30 dBm |

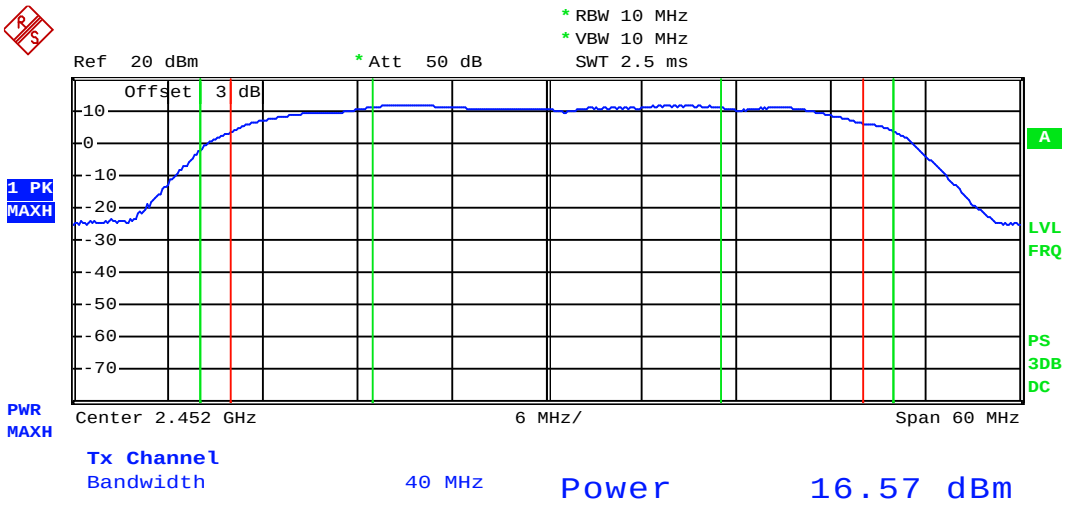
## 802.11n HT40 Ch 03 (2422 MHz)




## 802.11n HT40 Ch 06 (2437 MHz)




## 802.11n HT40 Ch 09 (2452 MHz)



# 7 EMISSION LIMITATIONS MEASUREMENT

## 7.1 Test Equipment

The following test equipment was used during the emission limitations test：

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Spectrum Analyzer | Agilent | E7405A | MY45106600 | Mar 22, 2012 | Mar 22, 2013 |

## 7.2 Block Diagram of Test Setup

The same as Section. 5.2.

## 7.3 Specification Limits (§15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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 band 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 Section 15.209(a) is not required.

In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)).(※This test result attaching to Section. 4.7)

## 7.4 Operating Condition of EUT

The test program “Hyper-Terminal” was used to enable the EUT to transmit data at different channel frequency individually.

## 7.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. Set RBW = 100 kHz, VBW ≥ 300 kHz, scan up through $10^{th}$ harmonic. All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
The test procedure is defined in KDB558074 v02:2012 (the 10.1.2 Unwanted Emission Level Measurement was used).

## 7.6 Test Results

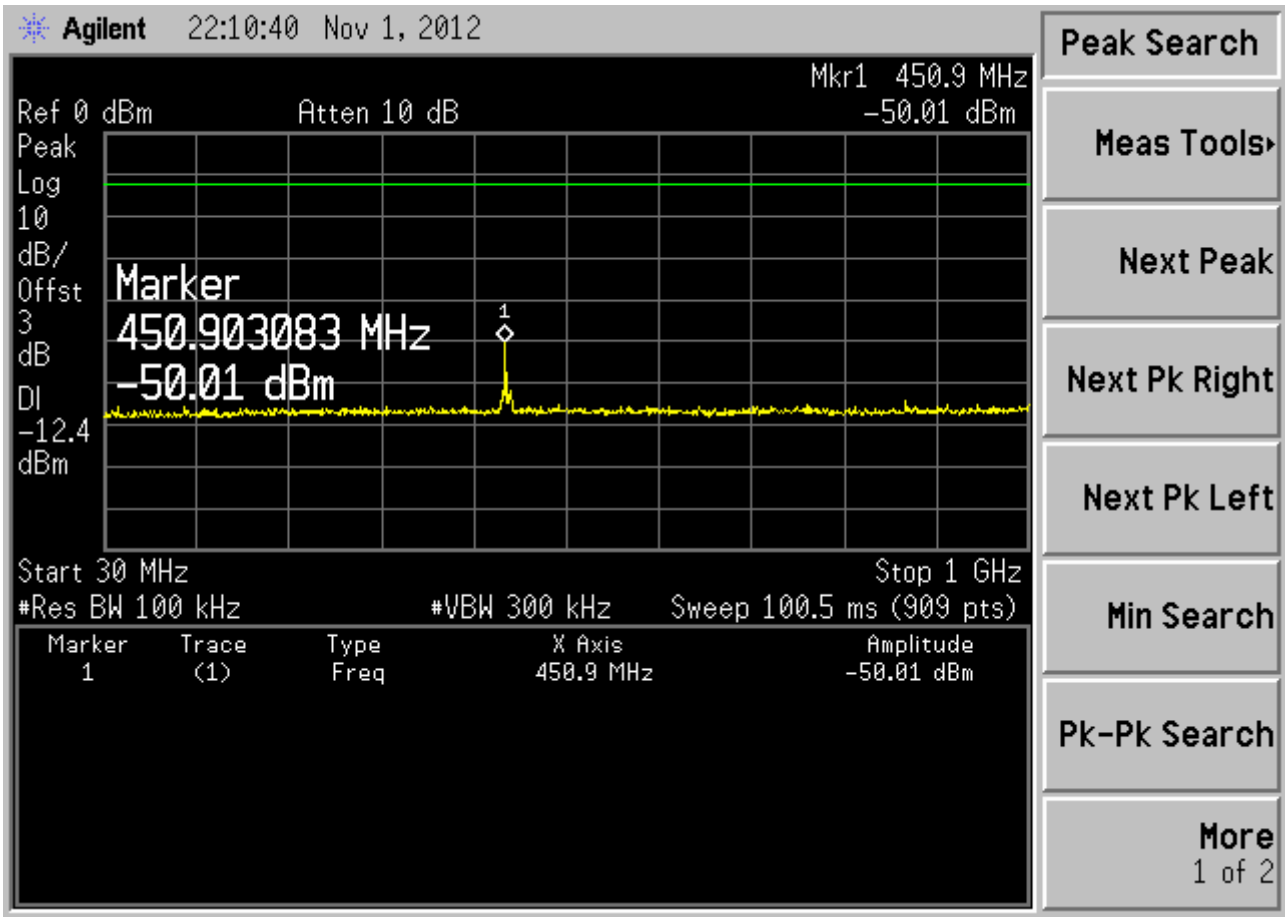
**PASSED**.
The test data was attached in the next pages.

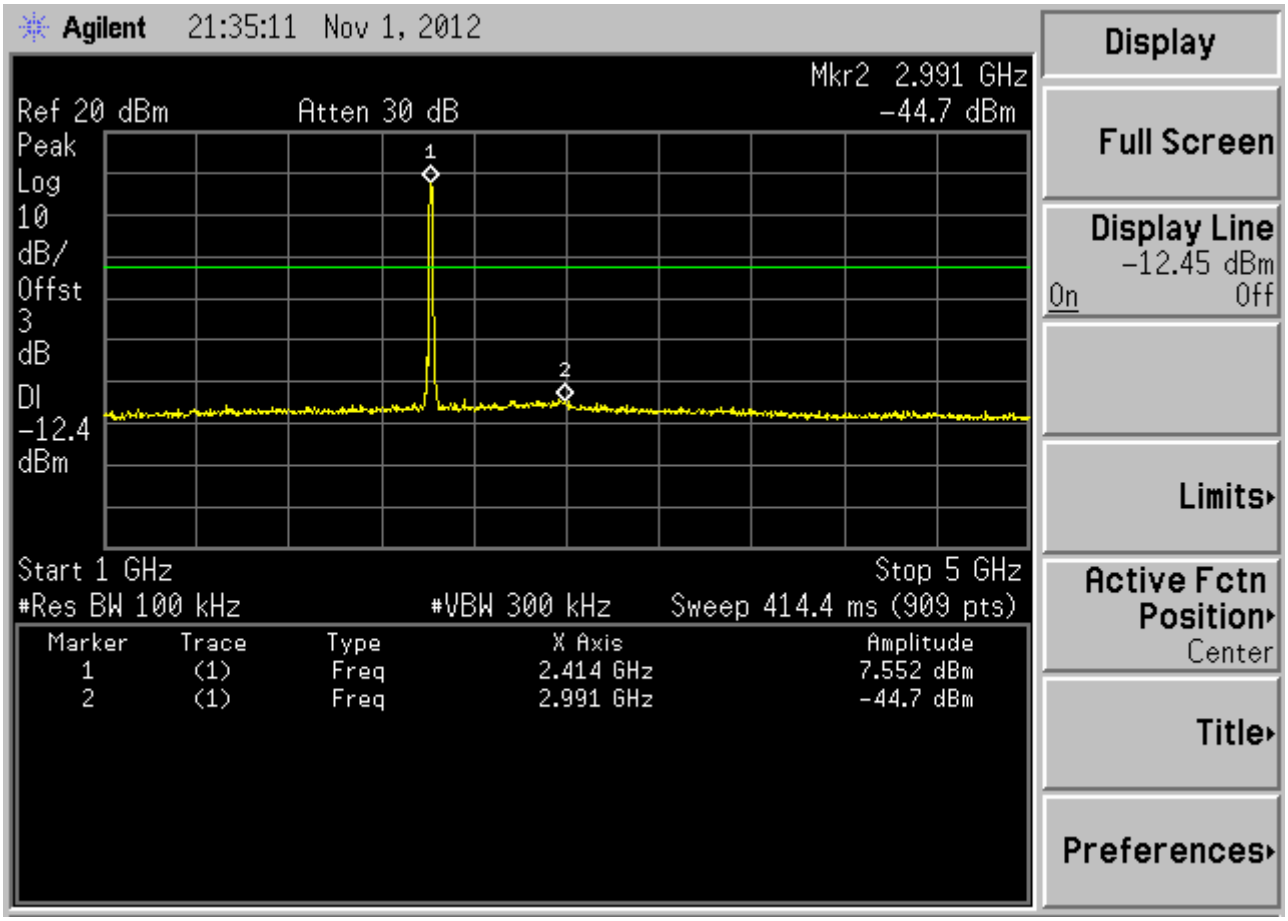
(Test Date: Nov. 01, 2012 Temperature: 24℃ Humidity: 46 %)

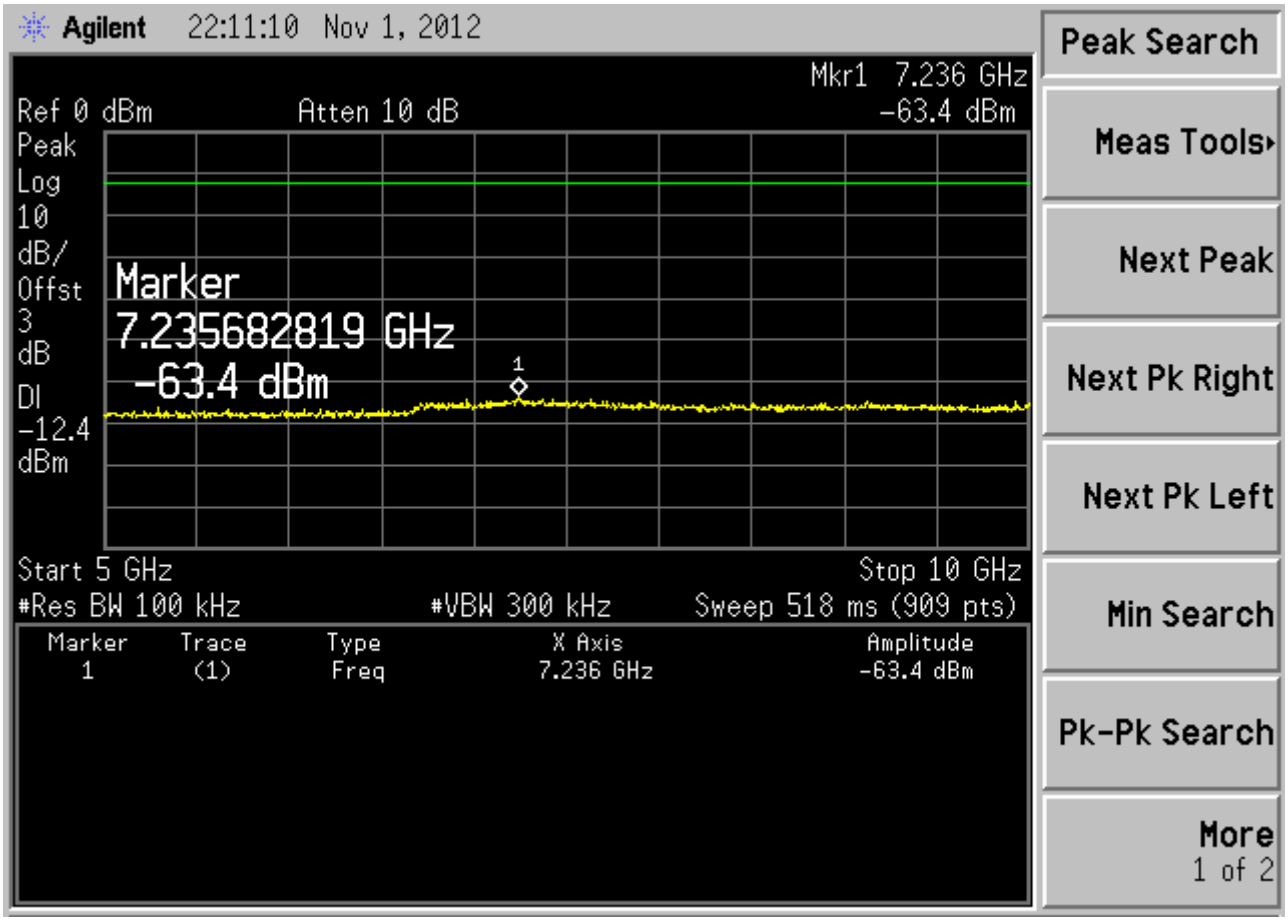
| Modulation | Data Page |
|---|---|
| 802.11b | P83-88 |
| 802.11g | P89-94 |
| 802.11n HT20 | P95-100 |
| 802.11n HT40 | P101-106 |
| 802.11b + BT | P107-115 |

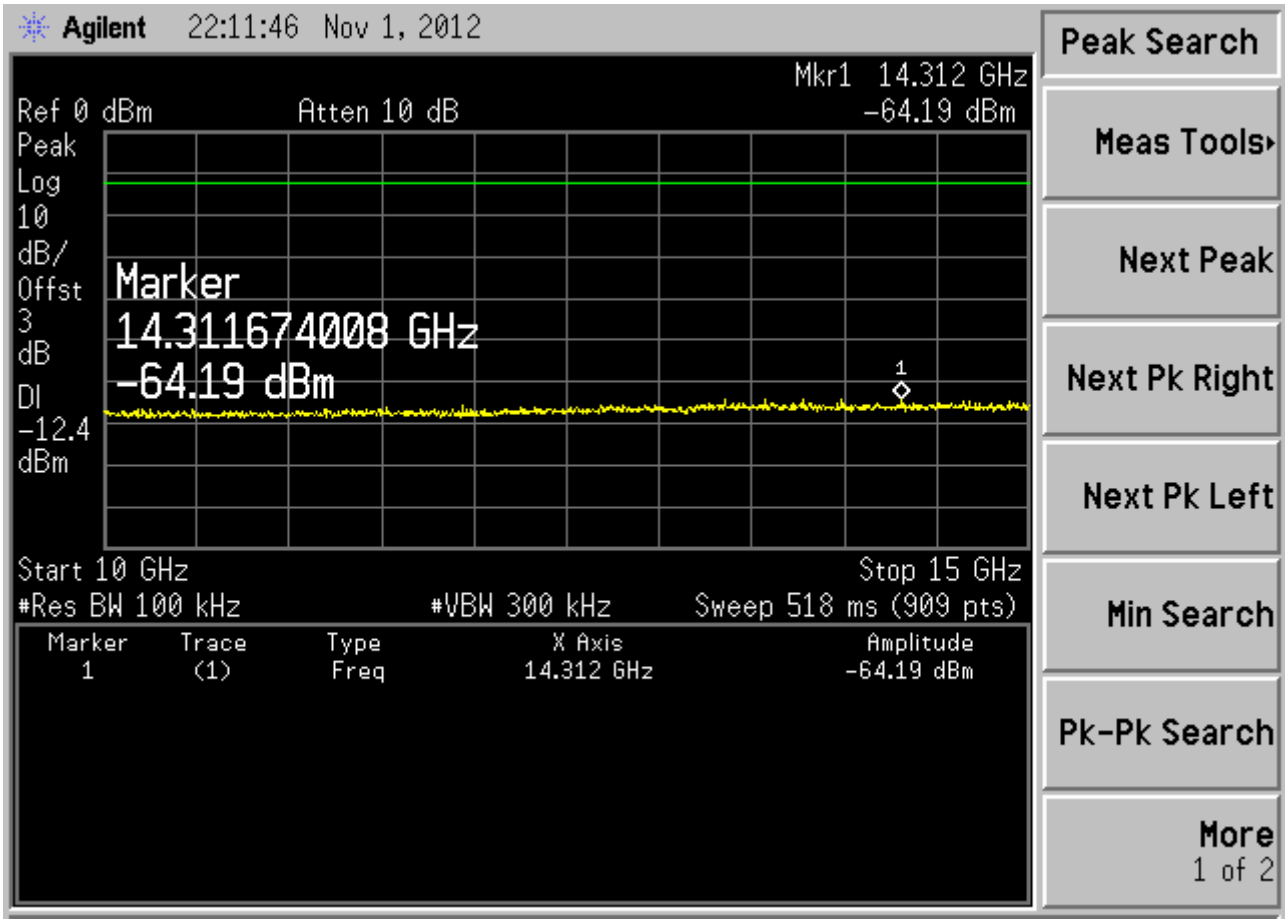
Note – For WiFi and BT simultaneous condition, we evaluated all the combination of WiFi and BT mode, and selected the worst emission mode: 802 11b+BT to record in the report.

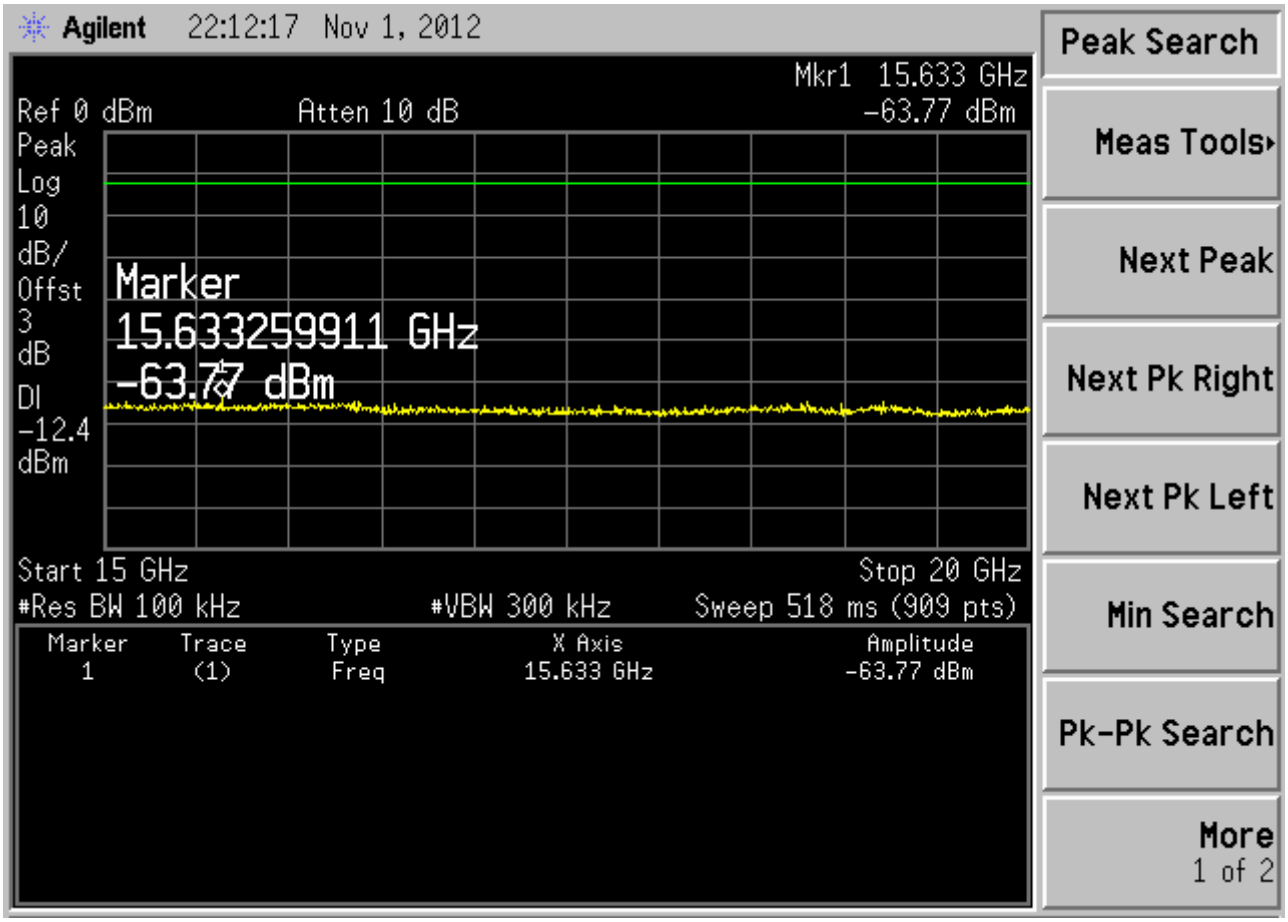
**802.11b Ch 01 (2412 MHz)**

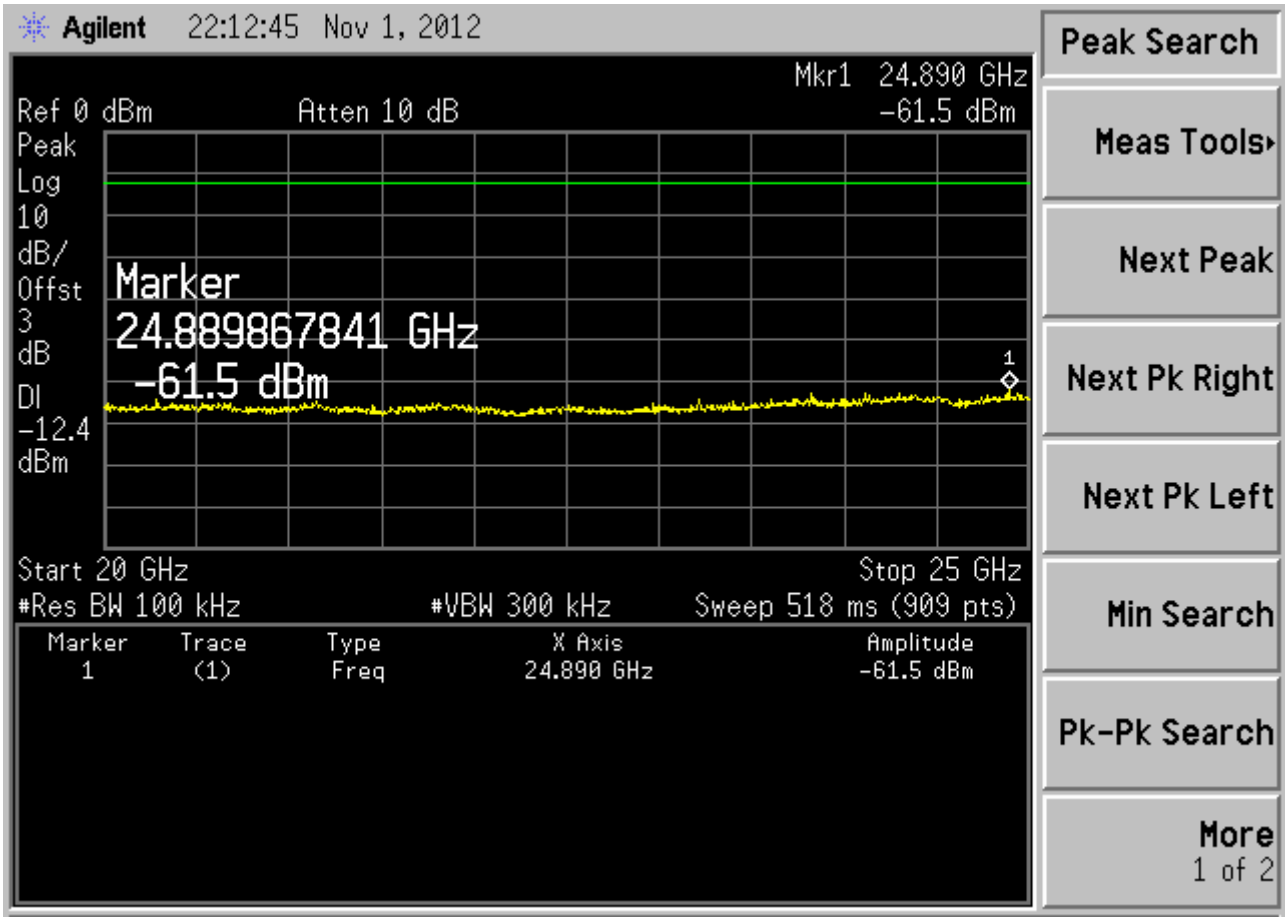


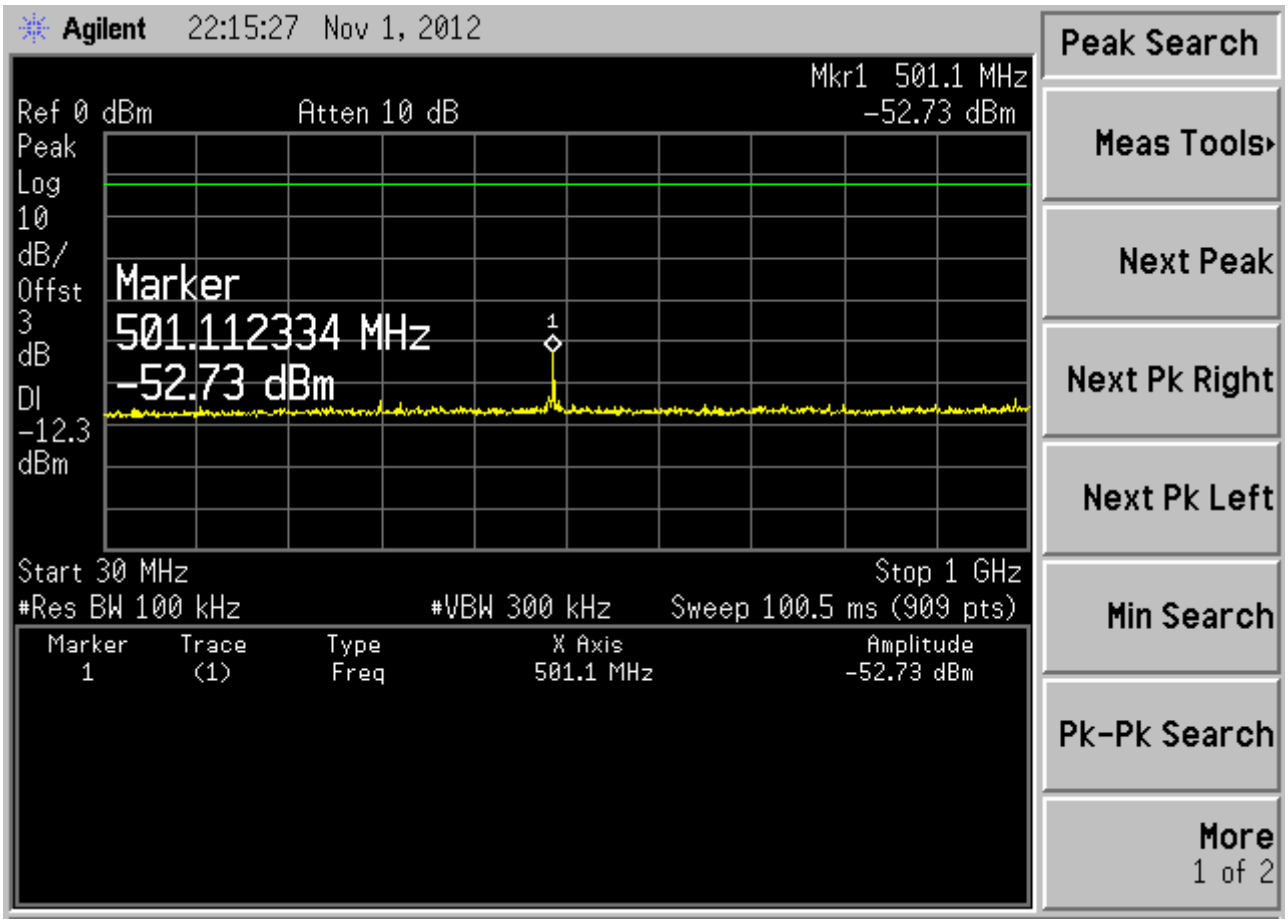

Agilent 22:11:10 Nov 1, 2012
Mkr1 7.236 GHz
Ref 0 dBm
Atten 10 dB
-63.4 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-12.4
dBm
Marker
7.235682819 GHz
-63.4 dBm
Start 5 GHz
Stop 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.236 GHz -63.4 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

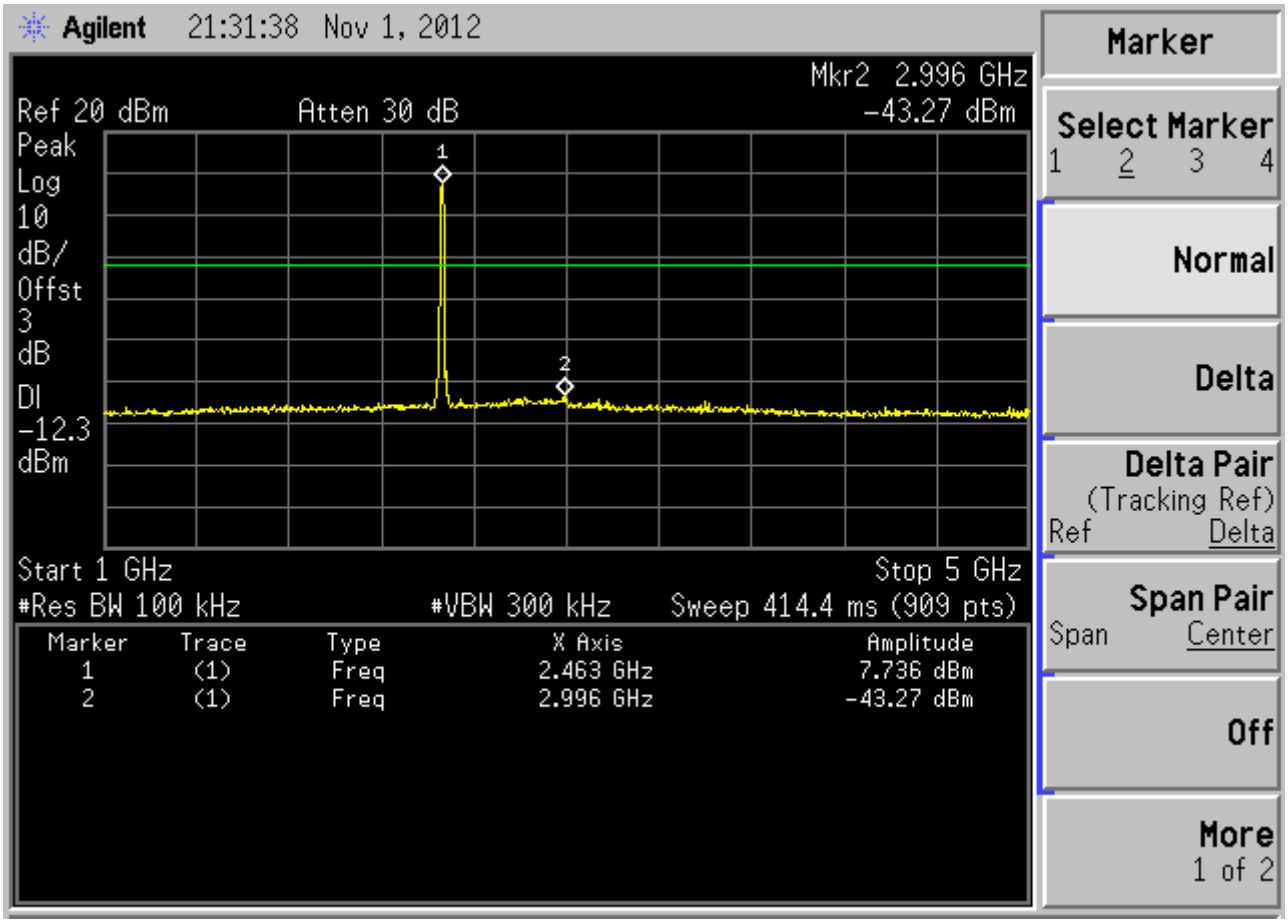

Agilent 22:11:46 Nov 1, 2012
Mkr1 14.312 GHz
Ref 0 dBm
Atten 10 dB
-64.19 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-12.4
dBm
Marker
14.311674008 GHz
-64.19 dBm
Start 10 GHz
Stop 15 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 14.312 GHz -64.19 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

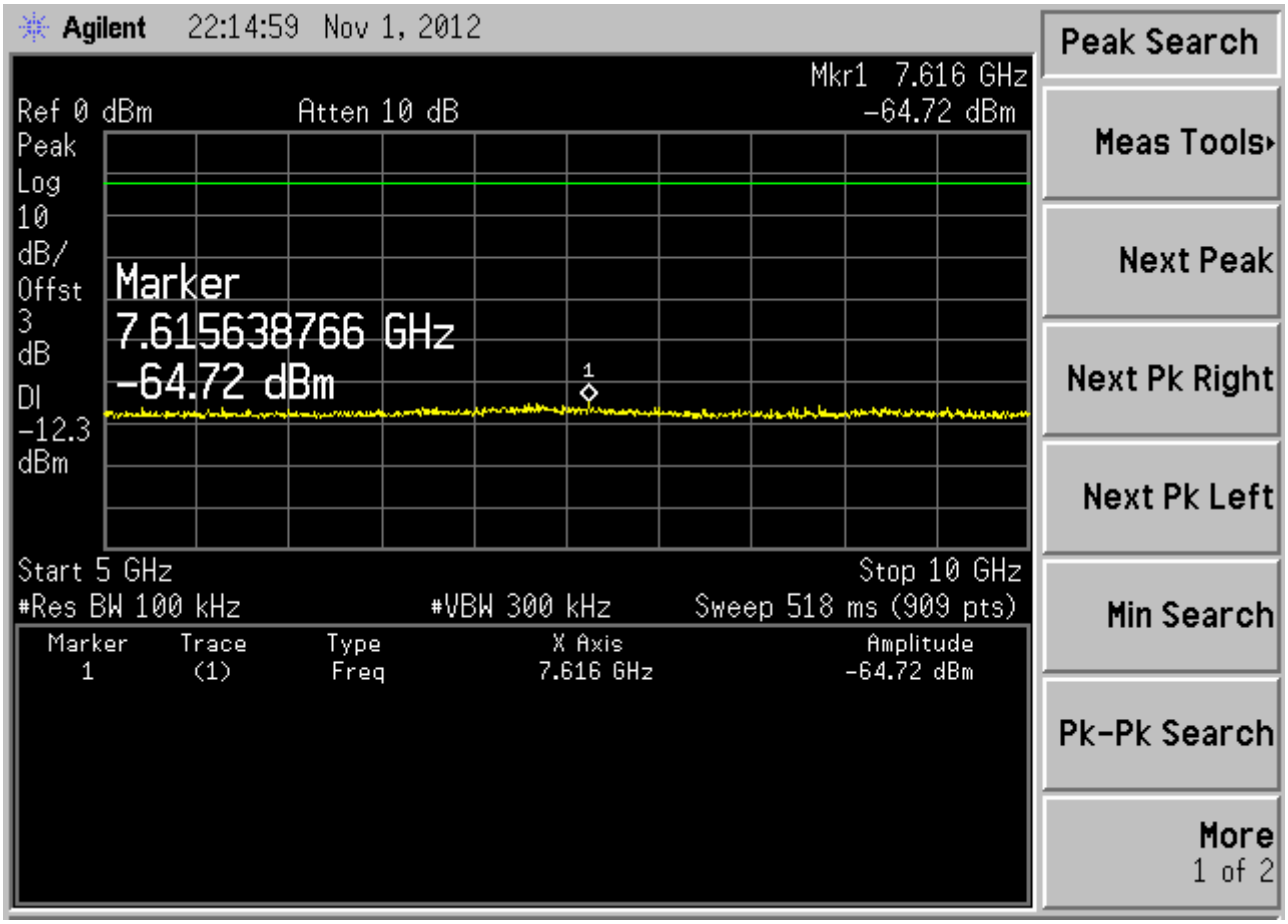

Agilent 22:12:17 Nov 1, 2012
Mkr1 15.633 GHz
Ref 0 dBm
Atten 10 dB
-63.77 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-12.4
dBm
Marker
15.633259911 GHz
-63.77 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 15.633 GHz -63.77 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

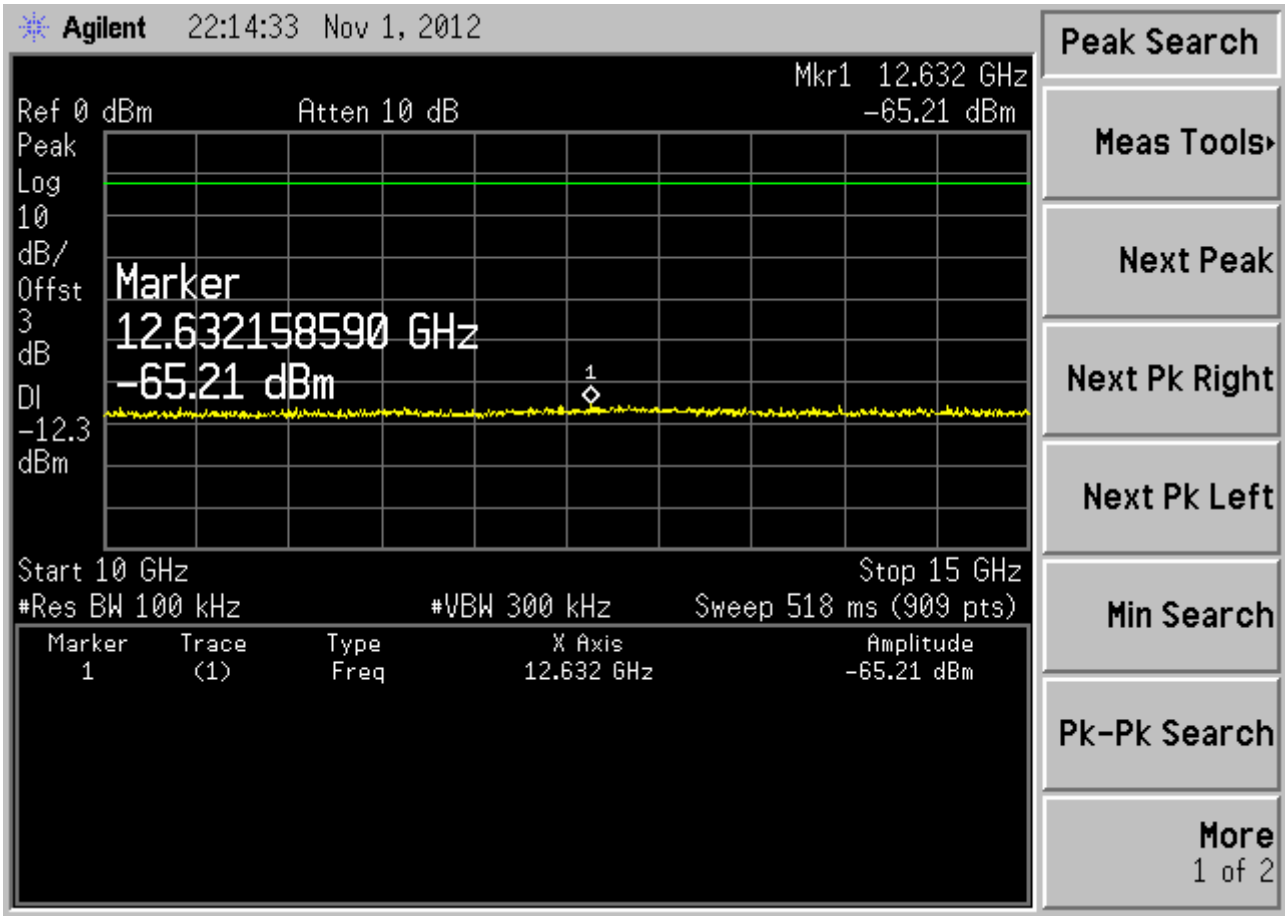

Agilent 22:12:45 Nov 1, 2012
Mkr1 24.890 GHz
Ref 0 dBm
Atten 10 dB
-61.5 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-12.4
dBm
Marker
24.889867841 GHz
-61.5 dBm
1
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.890 GHz -61.5 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

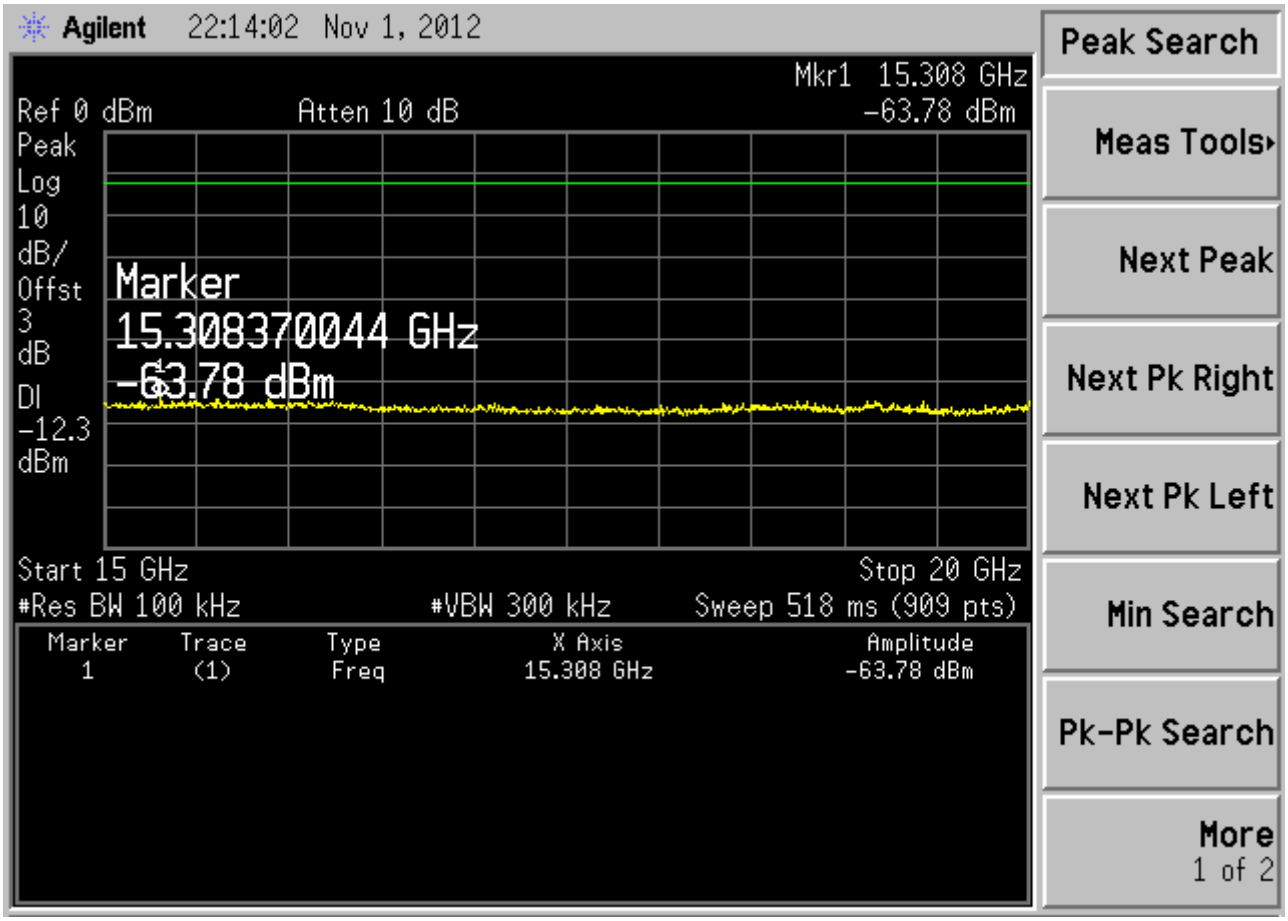
**802.11b Ch 11 (2462 MHz)**

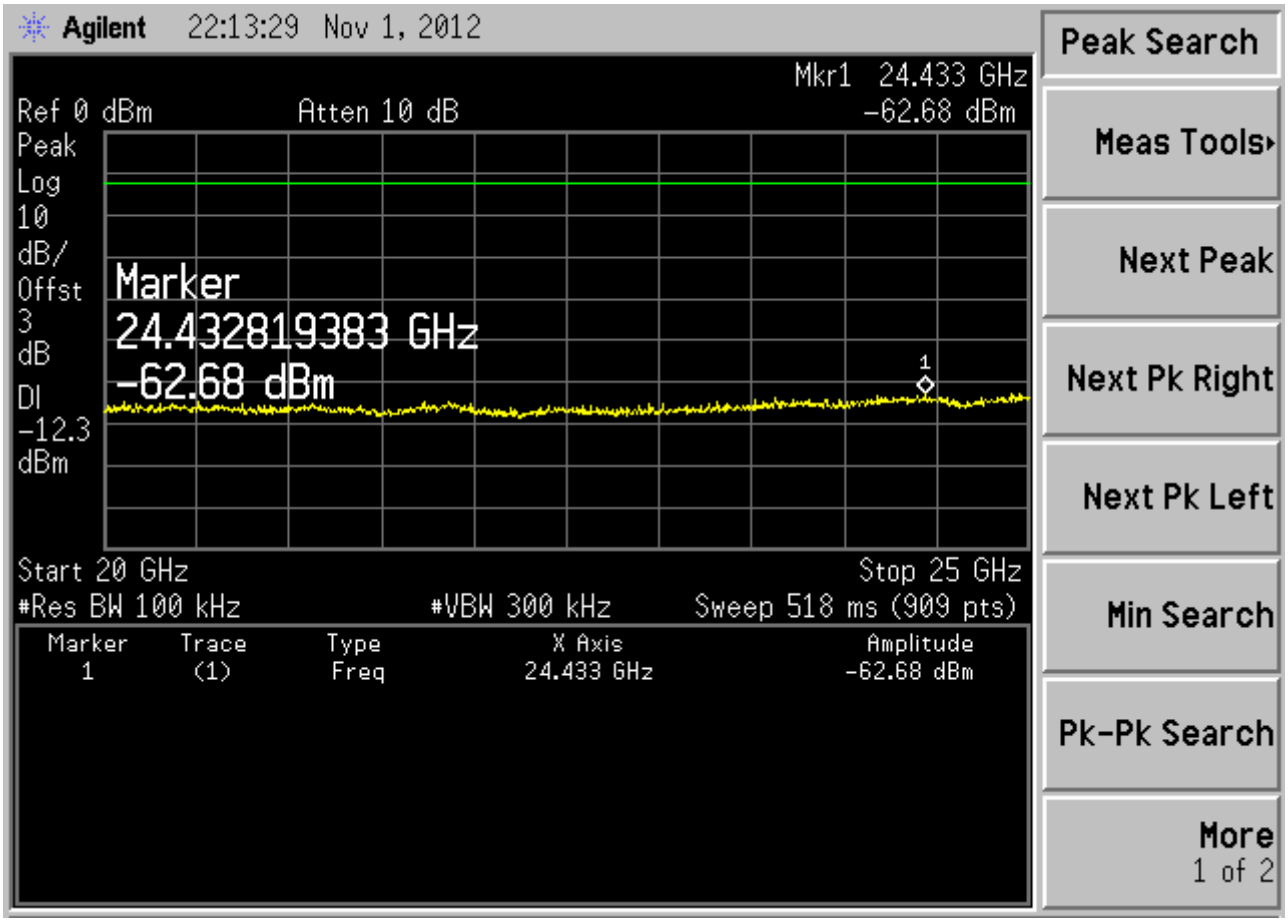


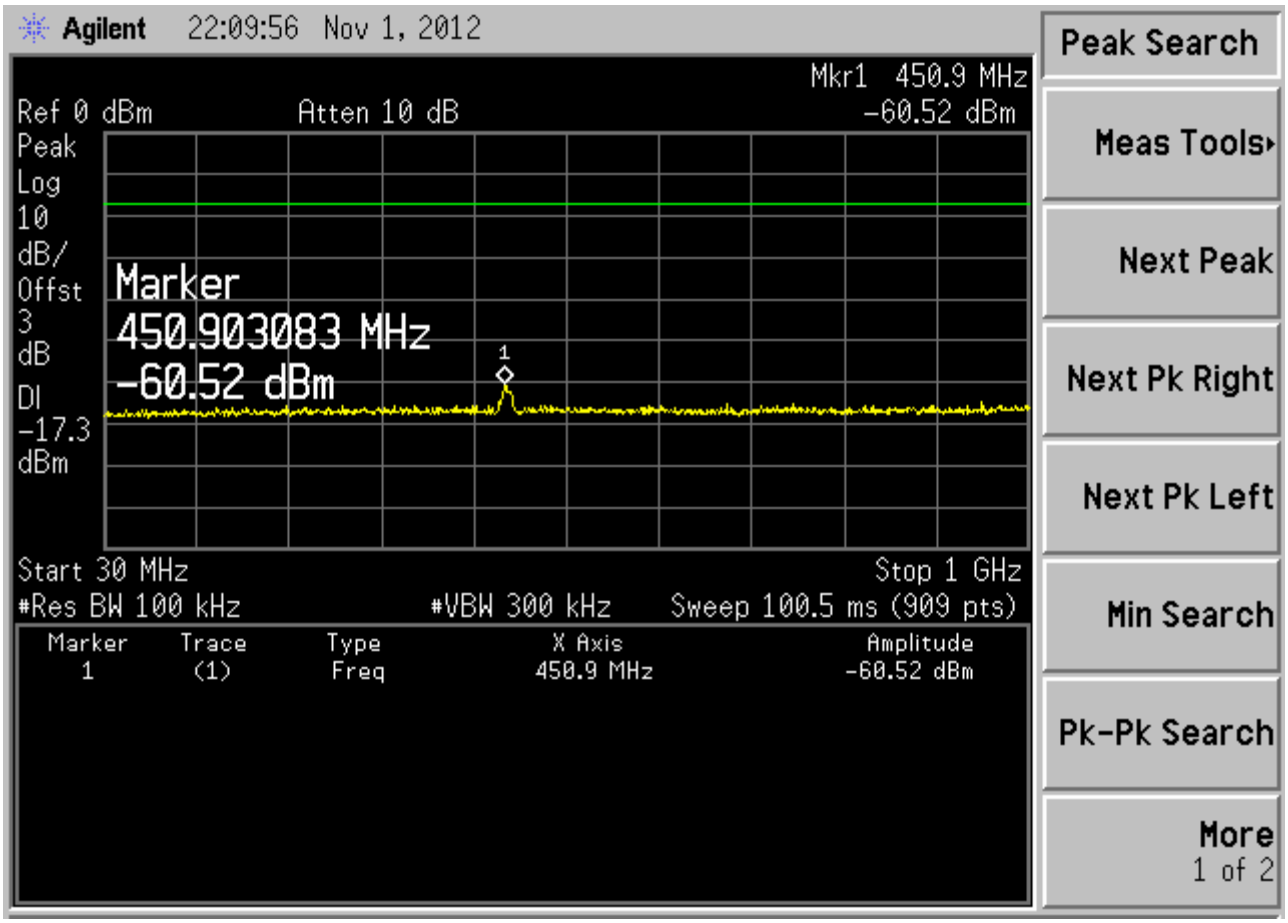

Agilent 22:14:59 Nov 1, 2012
Mkr1 7.616 GHz
Ref 0 dBm
Atten 10 dB
-64.72 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-12.3
dBm
Marker
7.615638766 GHz
-64.72 dBm
Start 5 GHz
Stop 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.616 GHz -64.72 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

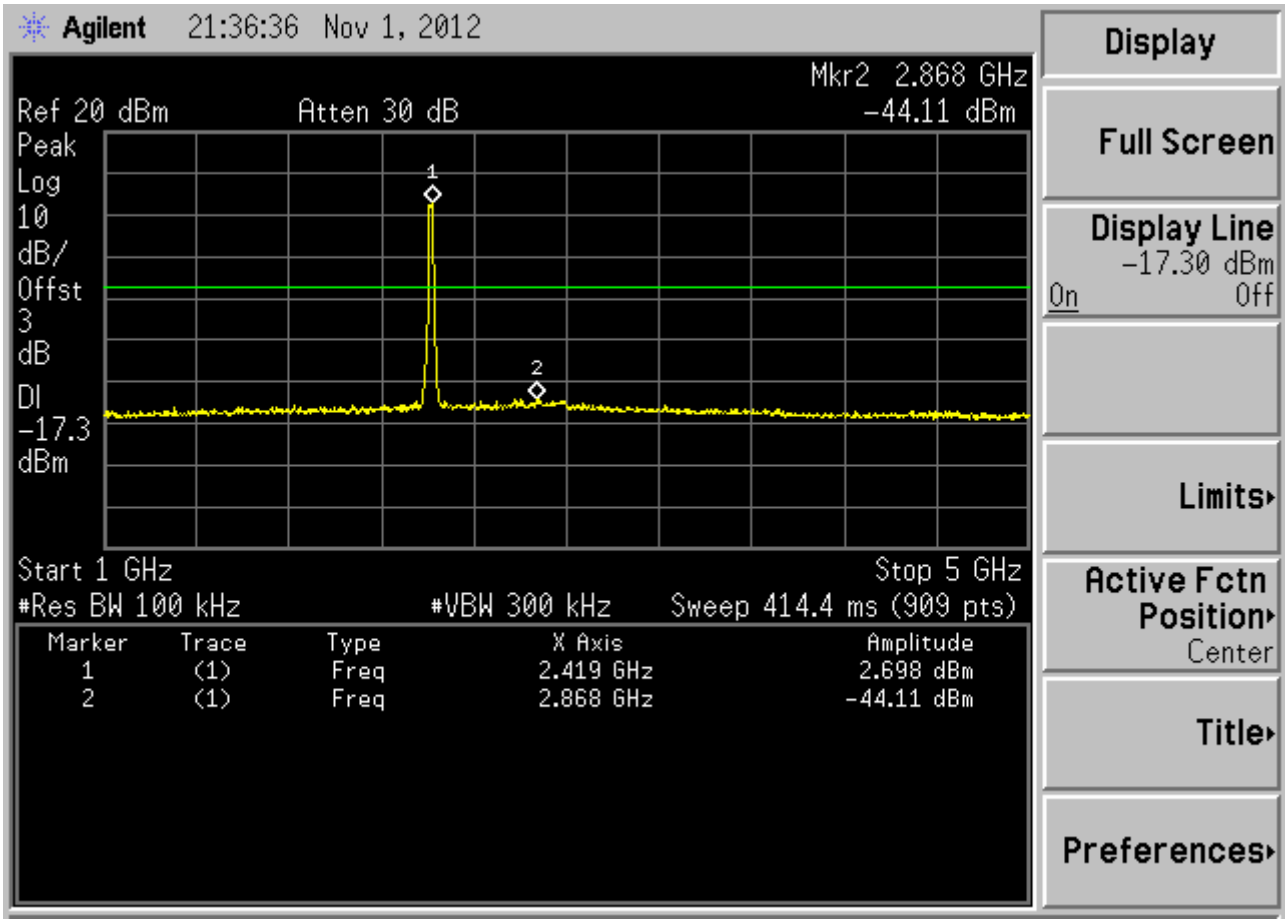

Agilent 22:14:33 Nov 1, 2012
Mkr1 12.632 GHz
Ref 0 dBm
Atten 10 dB
-65.21 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-12.3
dBm
Marker
12.632158590 GHz
-65.21 dBm
Start 10 GHz
Stop 15 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 12.632 GHz -65.21 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

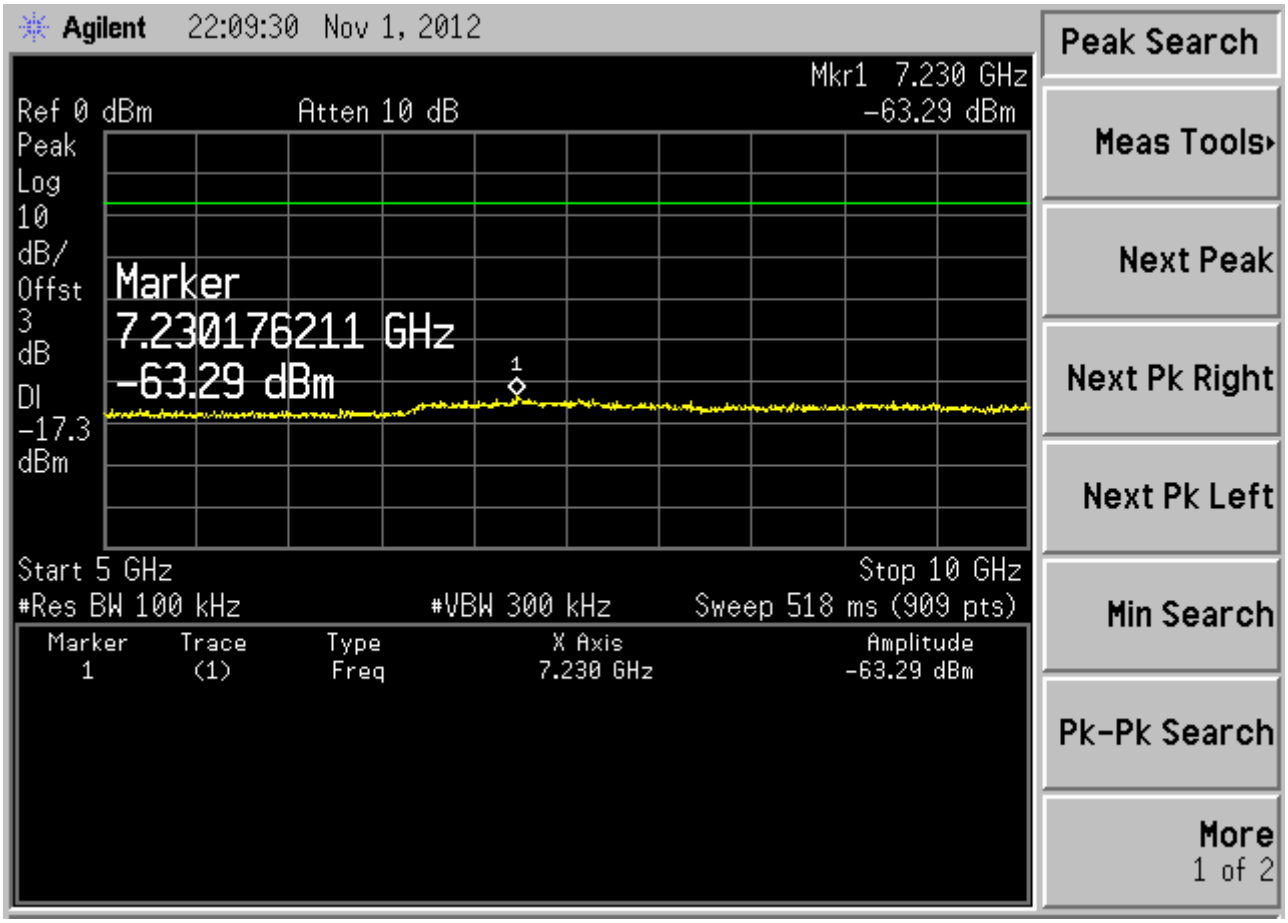

Agilent 22:14:02 Nov 1, 2012
Mkr1 15.308 GHz
Ref 0 dBm
Atten 10 dB
-63.78 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-12.3
dBm
Marker
15.308370044 GHz
-63.78 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 15.308 GHz -63.78 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

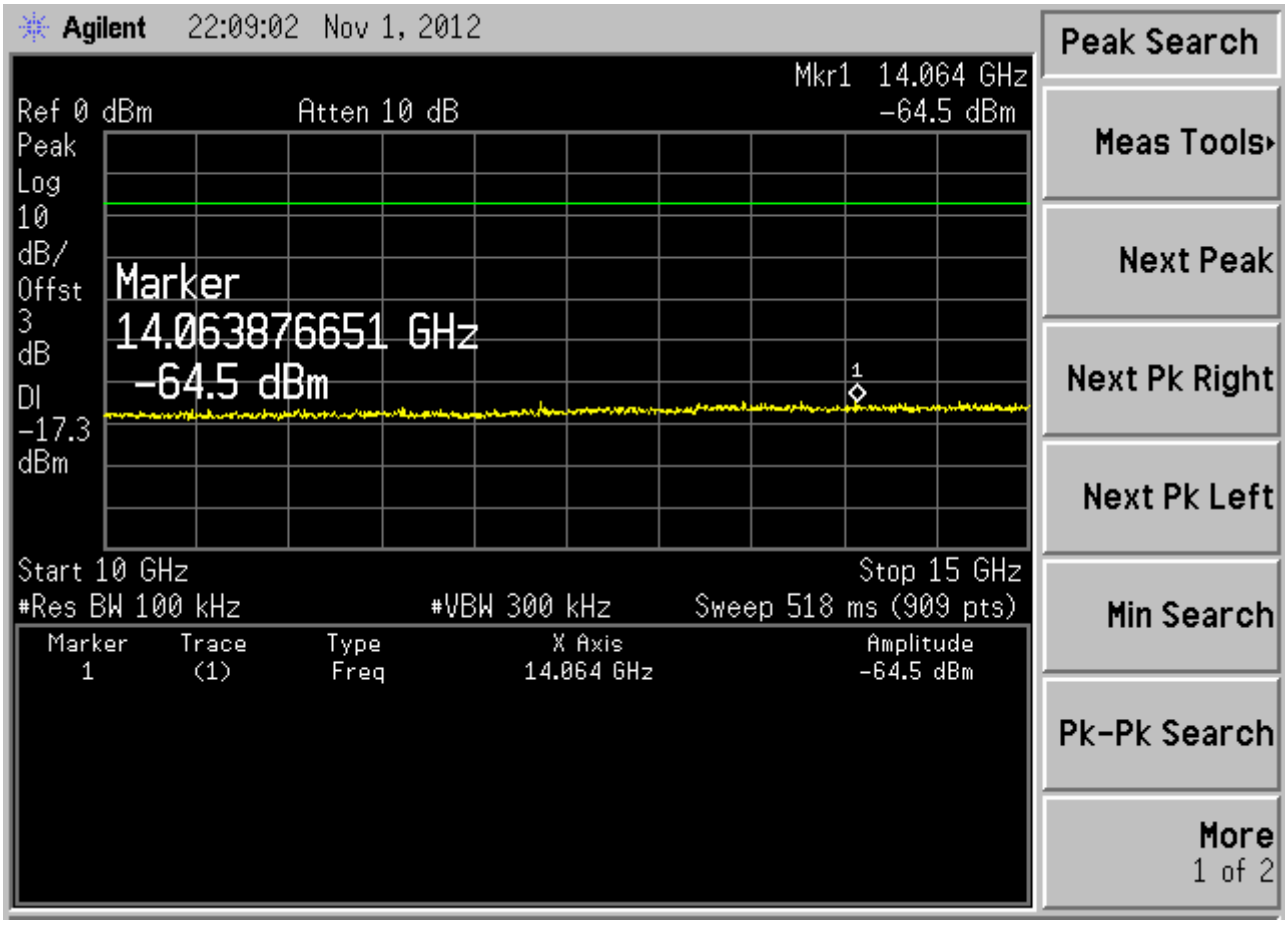

Agilent 22:13:29 Nov 1, 2012
Mkr1 24.433 GHz
Ref 0 dBm
Atten 10 dB
-62.68 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-12.3
dBm
Marker
24.432819383 GHz
-62.68 dBm
1
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.433 GHz -62.68 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

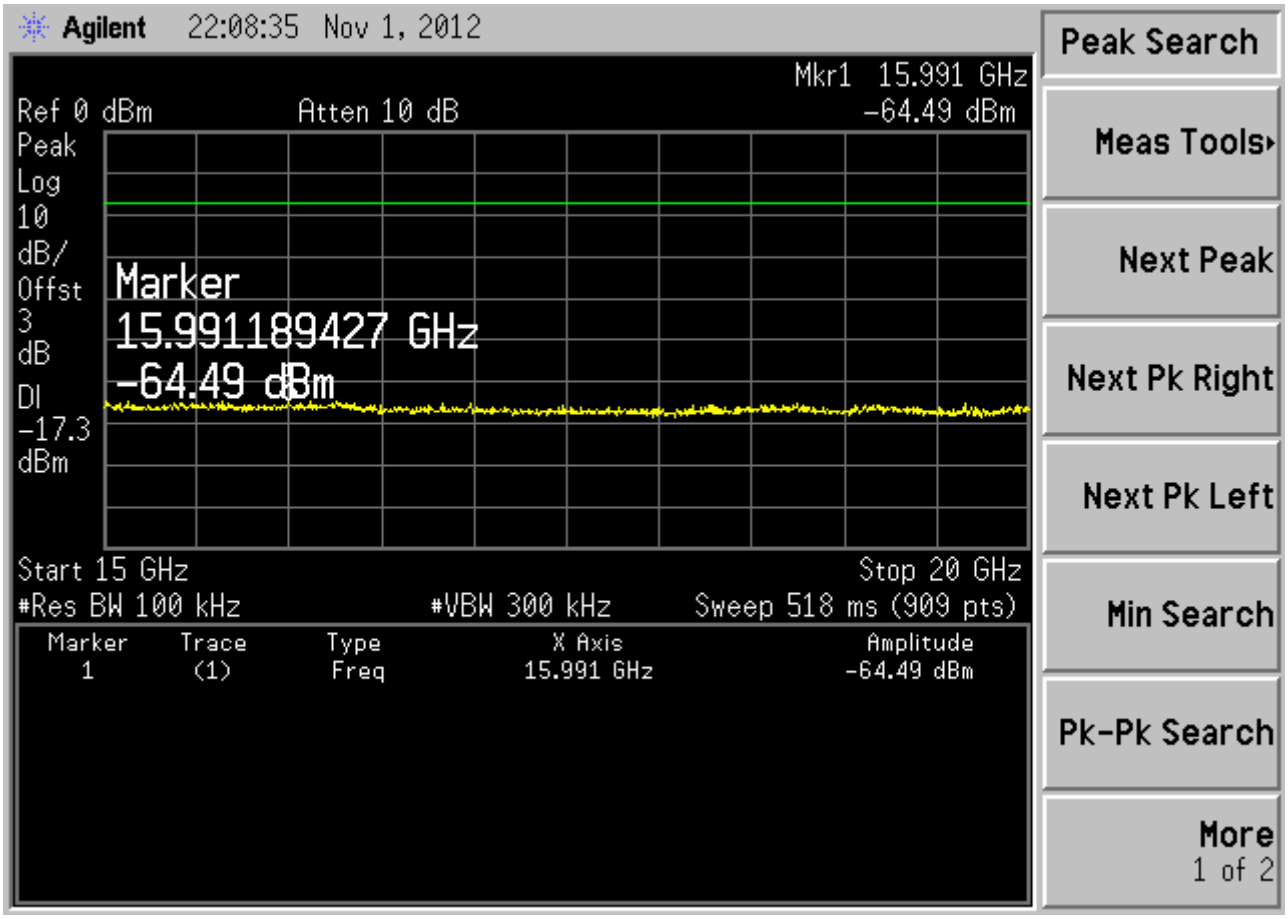
**802.11g Ch 01 (2412 MHz)**

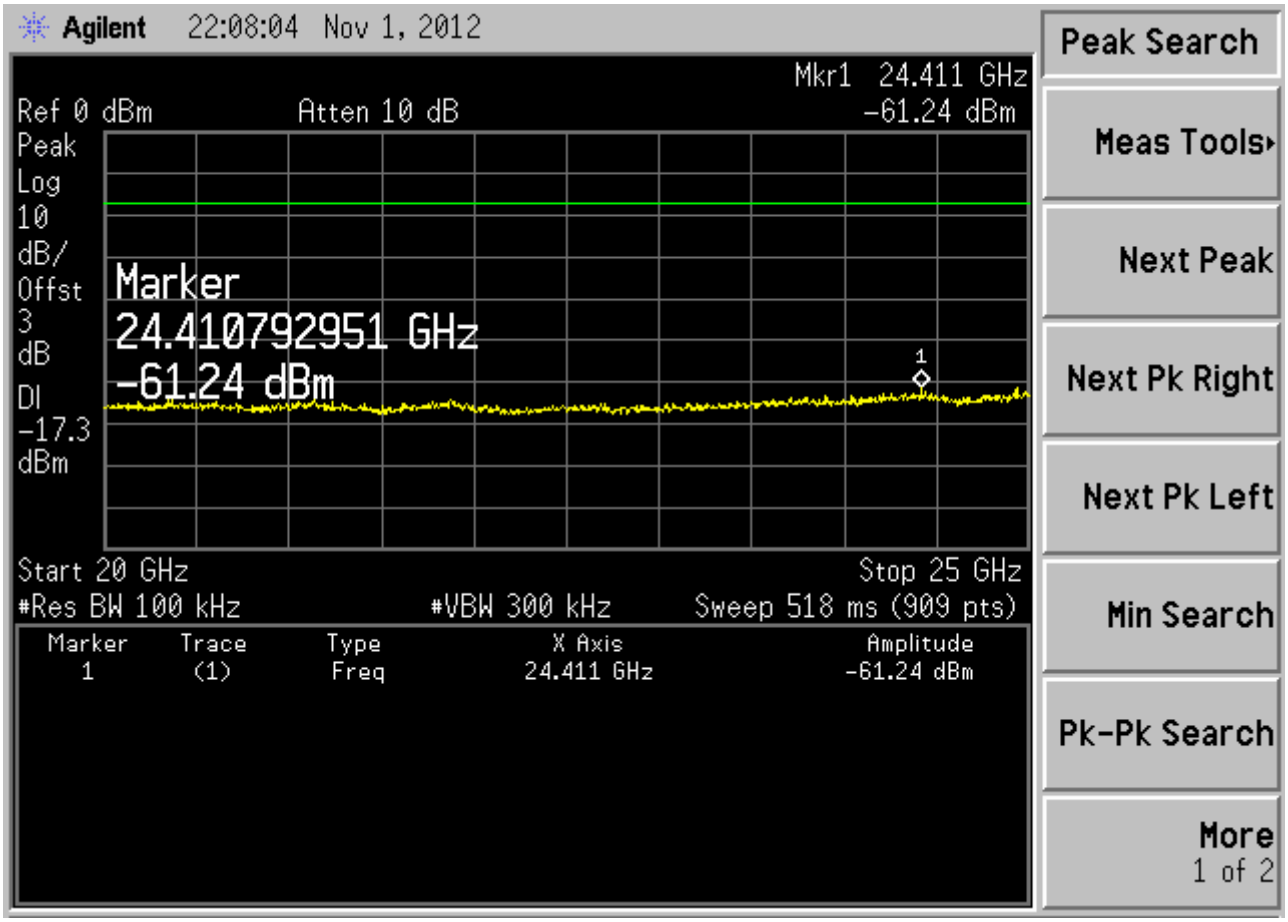


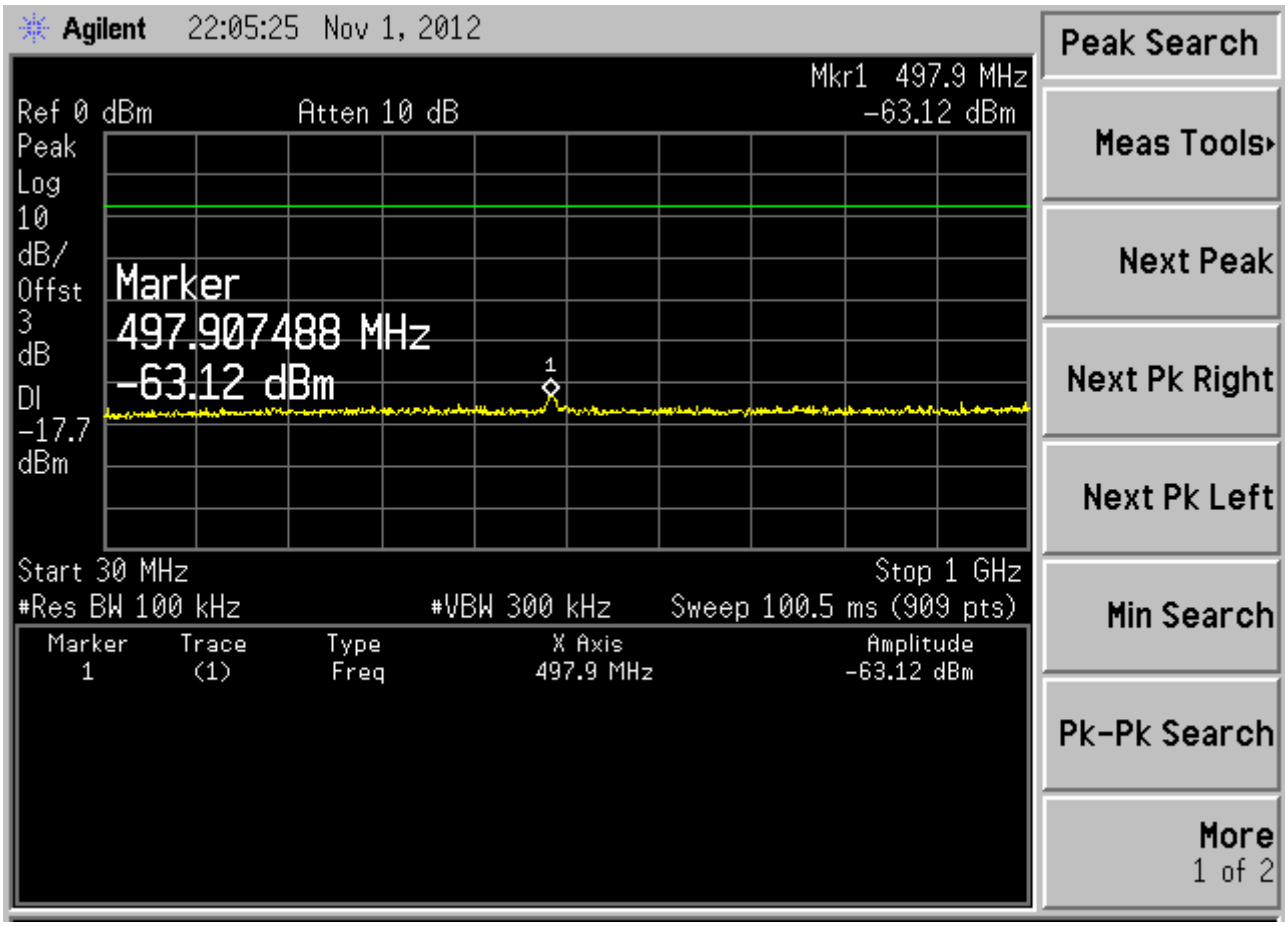

Agilent 22:09:30 Nov 1, 2012
Mkr1 7.230 GHz
Ref 0 dBm
Atten 10 dB
-63.29 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-17.3
dBm
Marker
7.230176211 GHz
-63.29 dBm
Start 5 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10 GHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.230 GHz -63.29 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

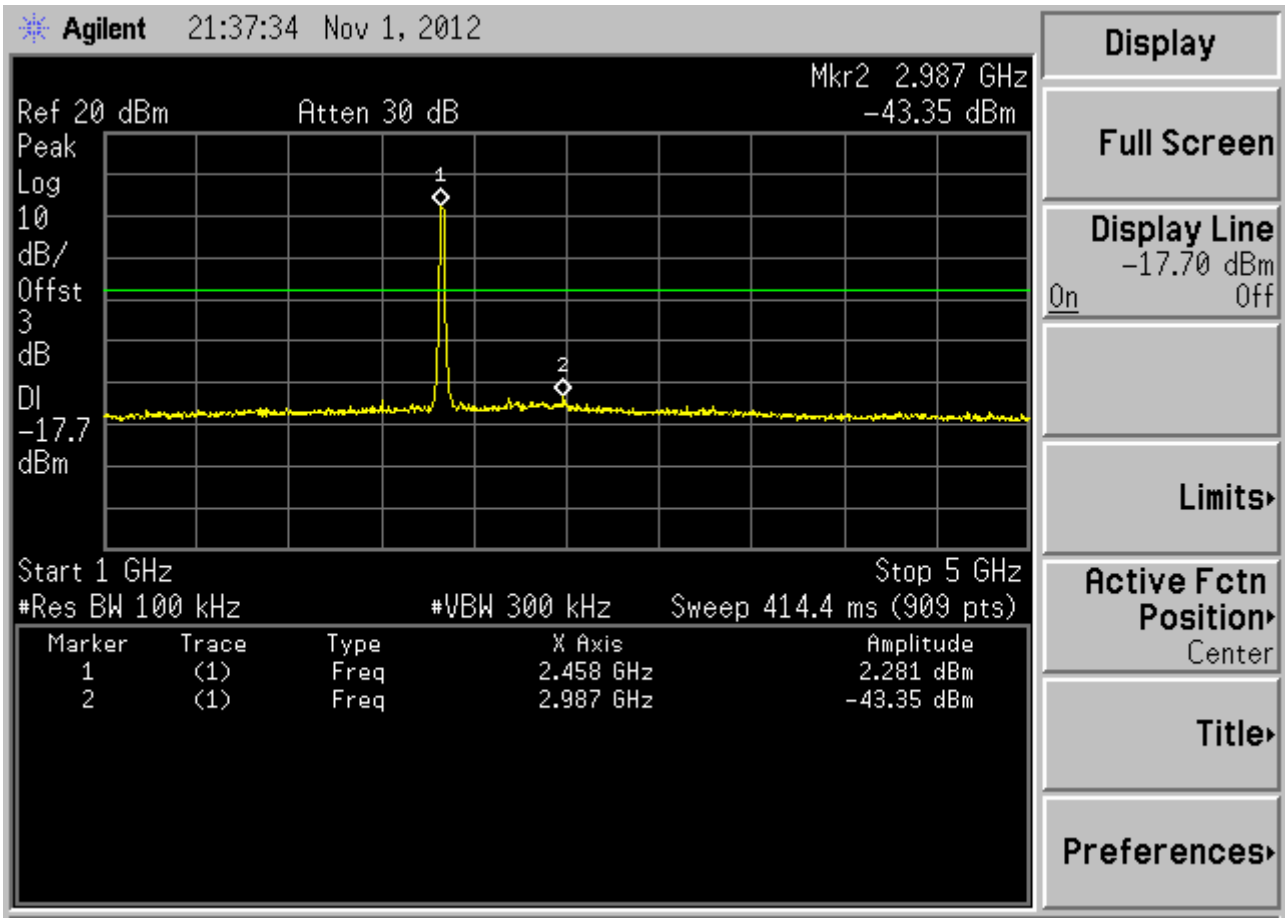

Agilent 22:09:02 Nov 1, 2012
Mkr1 14.064 GHz
Ref 0 dBm
Atten 10 dB
-64.5 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-17.3
dBm
Marker
14.063876651 GHz
-64.5 dBm
Start 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15 GHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 14.064 GHz -64.5 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

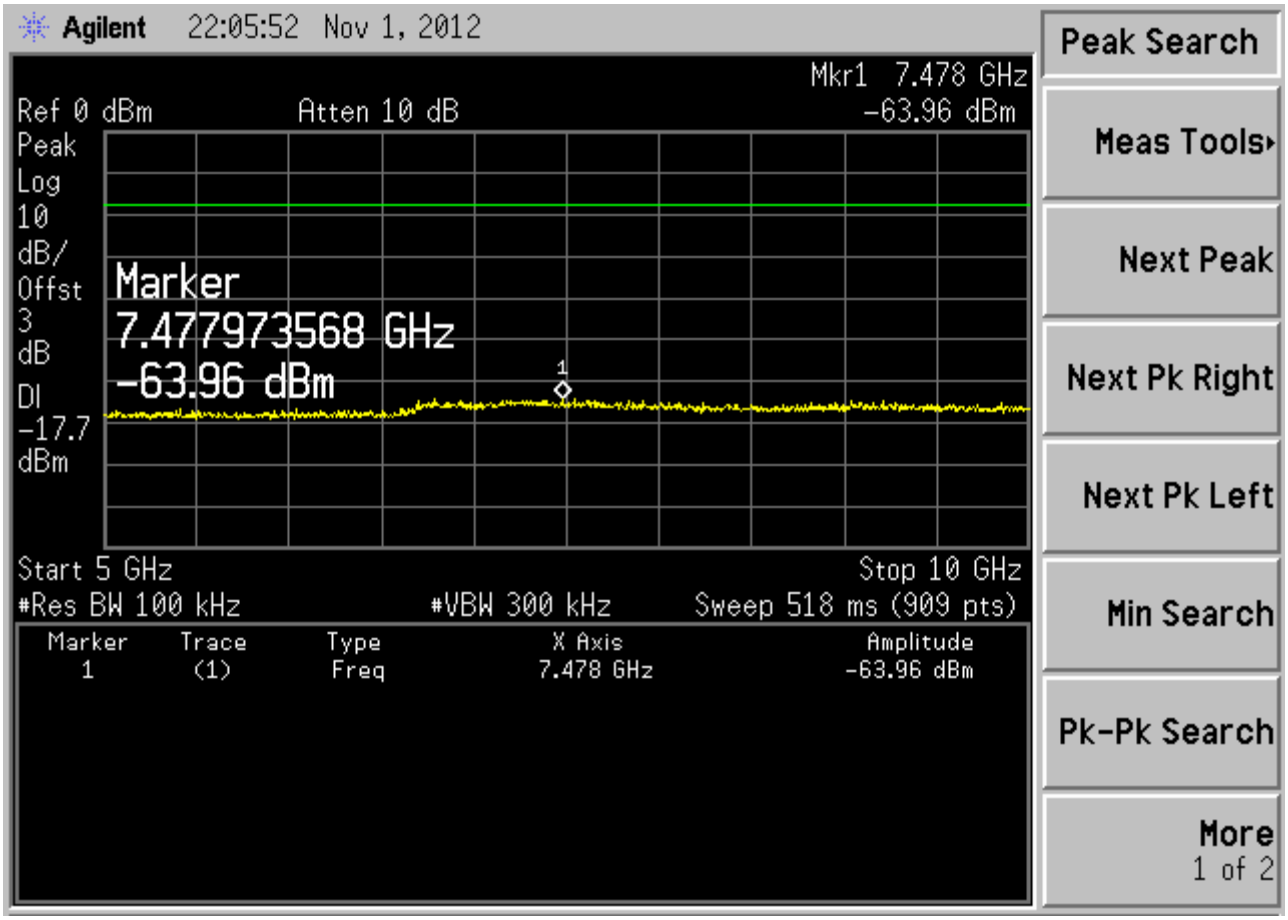

Agilent 22:08:35 Nov 1, 2012
Mkr1 15.991 GHz
Ref 0 dBm
Atten 10 dB
-64.49 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-17.3
dBm
Marker
15.991189427 GHz
-64.49 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 15.991 GHz -64.49 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

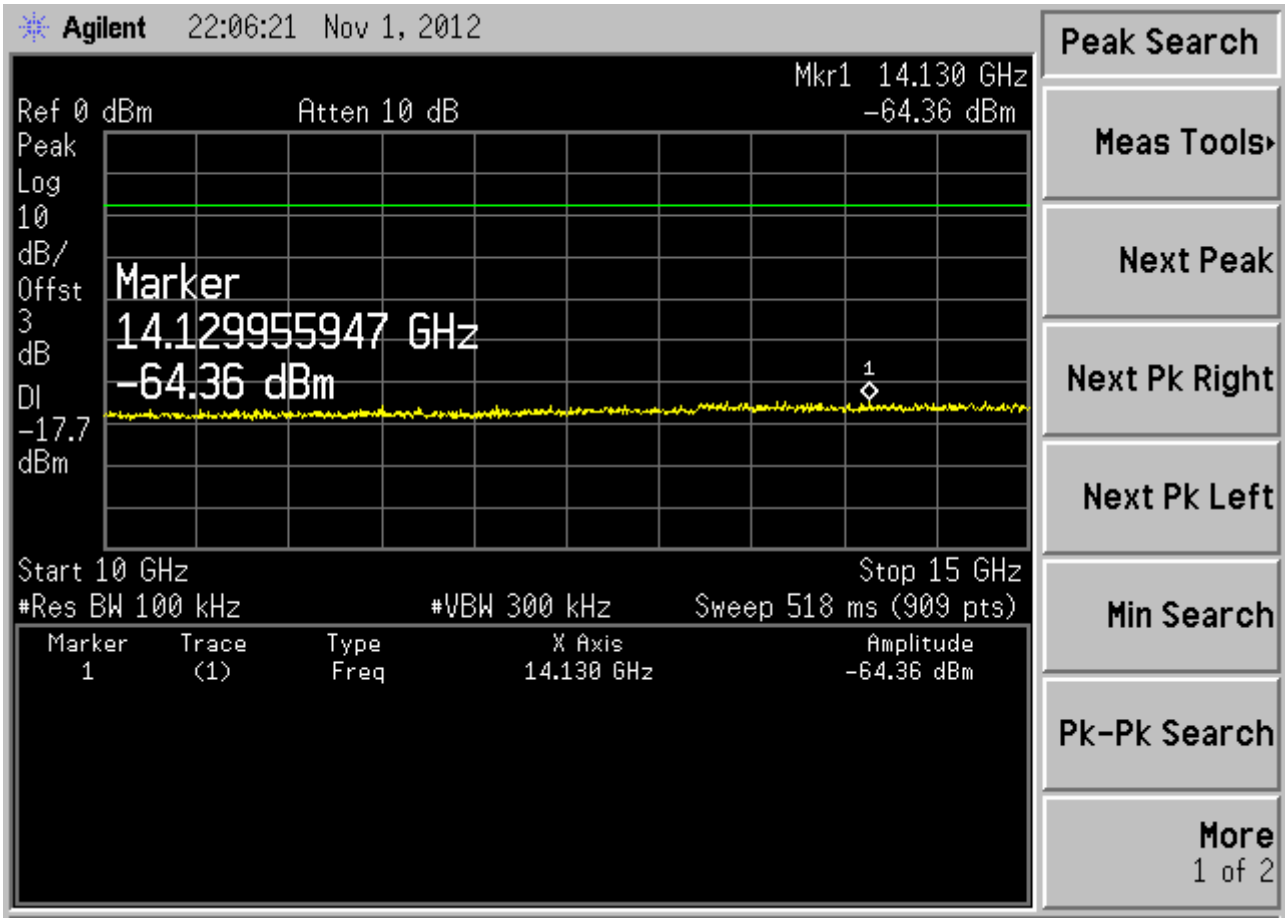

Agilent 22:08:04 Nov 1, 2012
Mkr1 24.411 GHz
Ref 0 dBm
Atten 10 dB
-61.24 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-17.3
dBm
Marker
24.410792951 GHz
-61.24 dBm
1
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.411 GHz -61.24 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

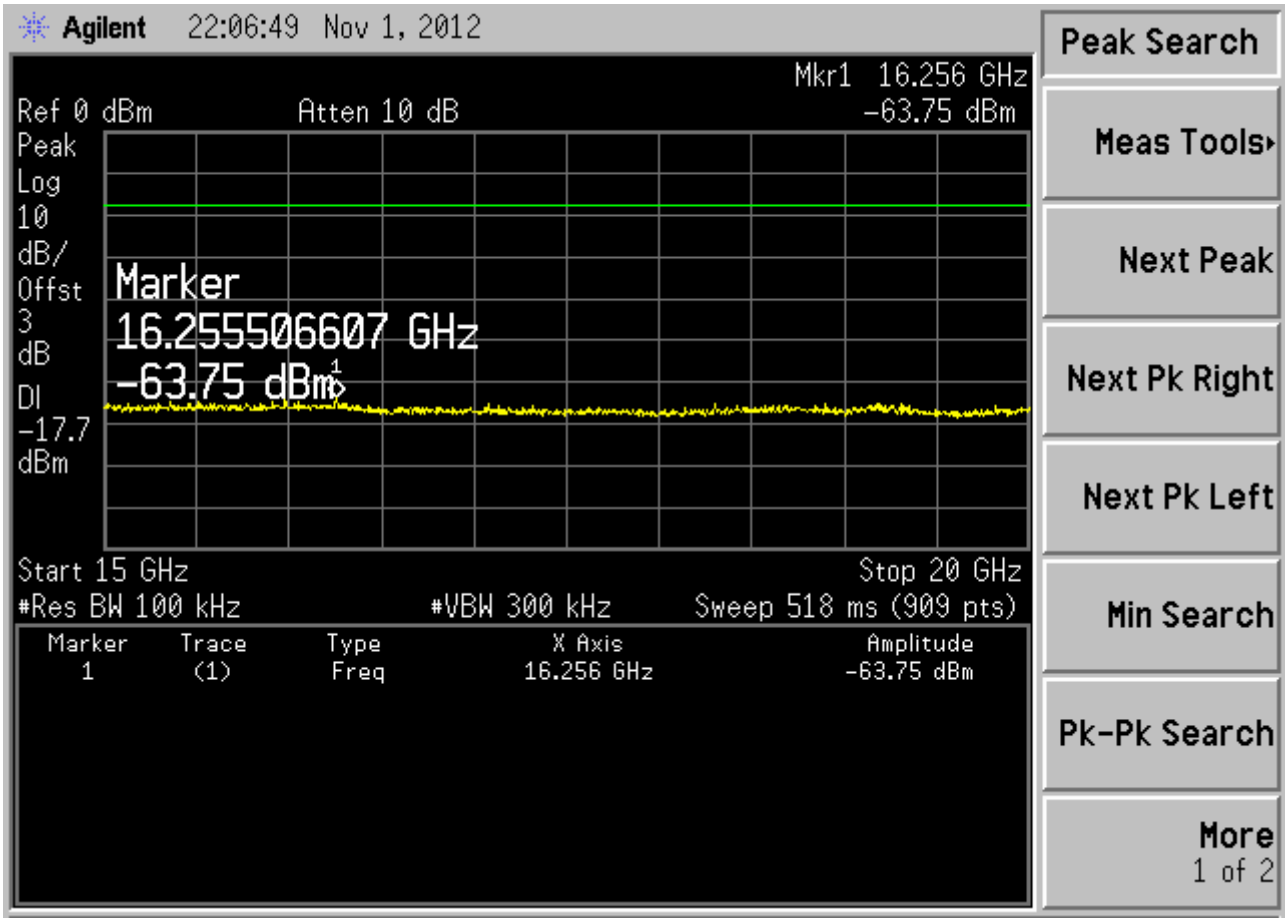
**802.11g Ch 11 (2462 MHz)**

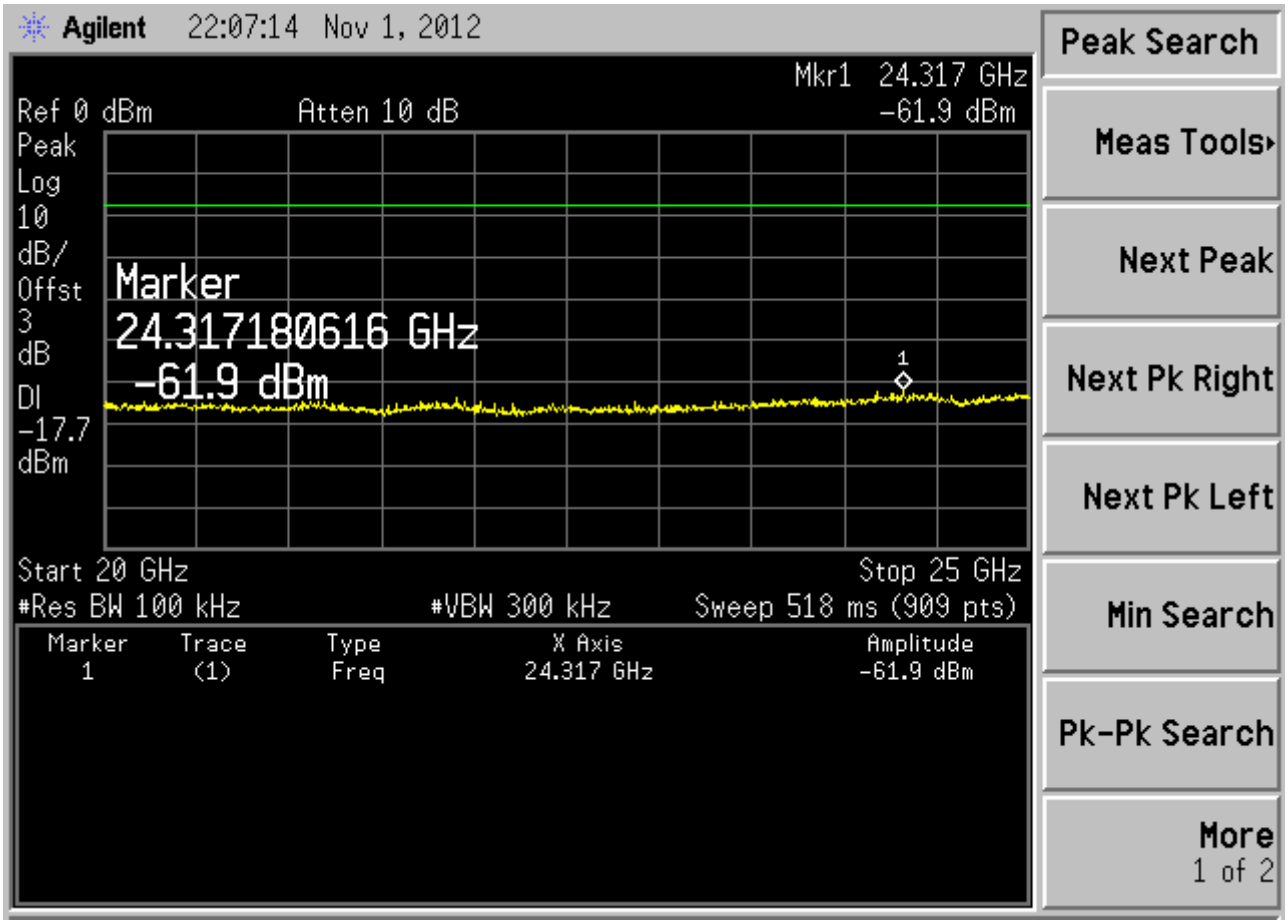


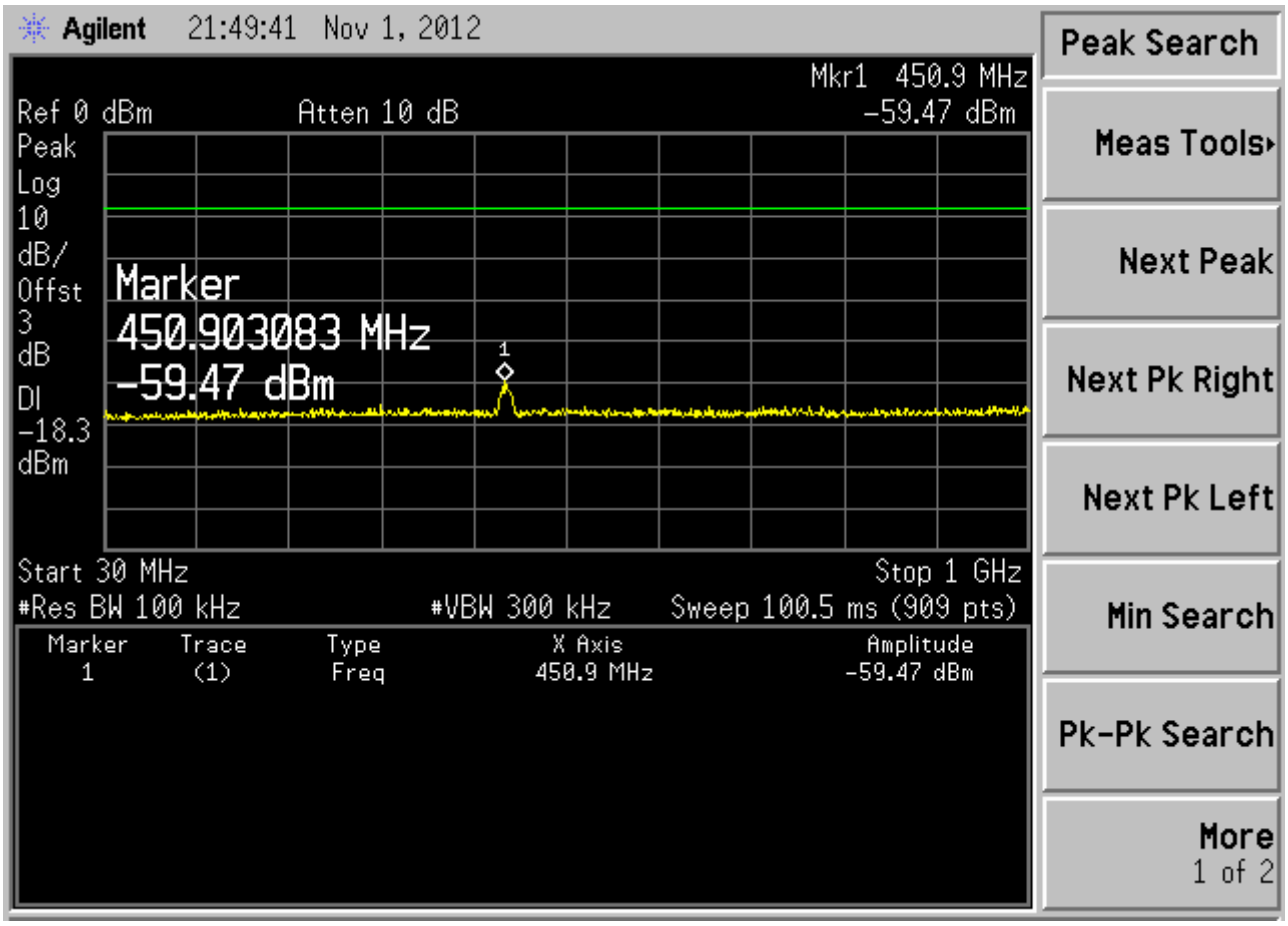

Agilent 22:05:52 Nov 1, 2012
Mkr1 7.478 GHz
Ref 0 dBm
Atten 10 dB
-63.96 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-17.7
dBm
Marker
7.477973568 GHz
-63.96 dBm
Start 5 GHz
Stop 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.478 GHz -63.96 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

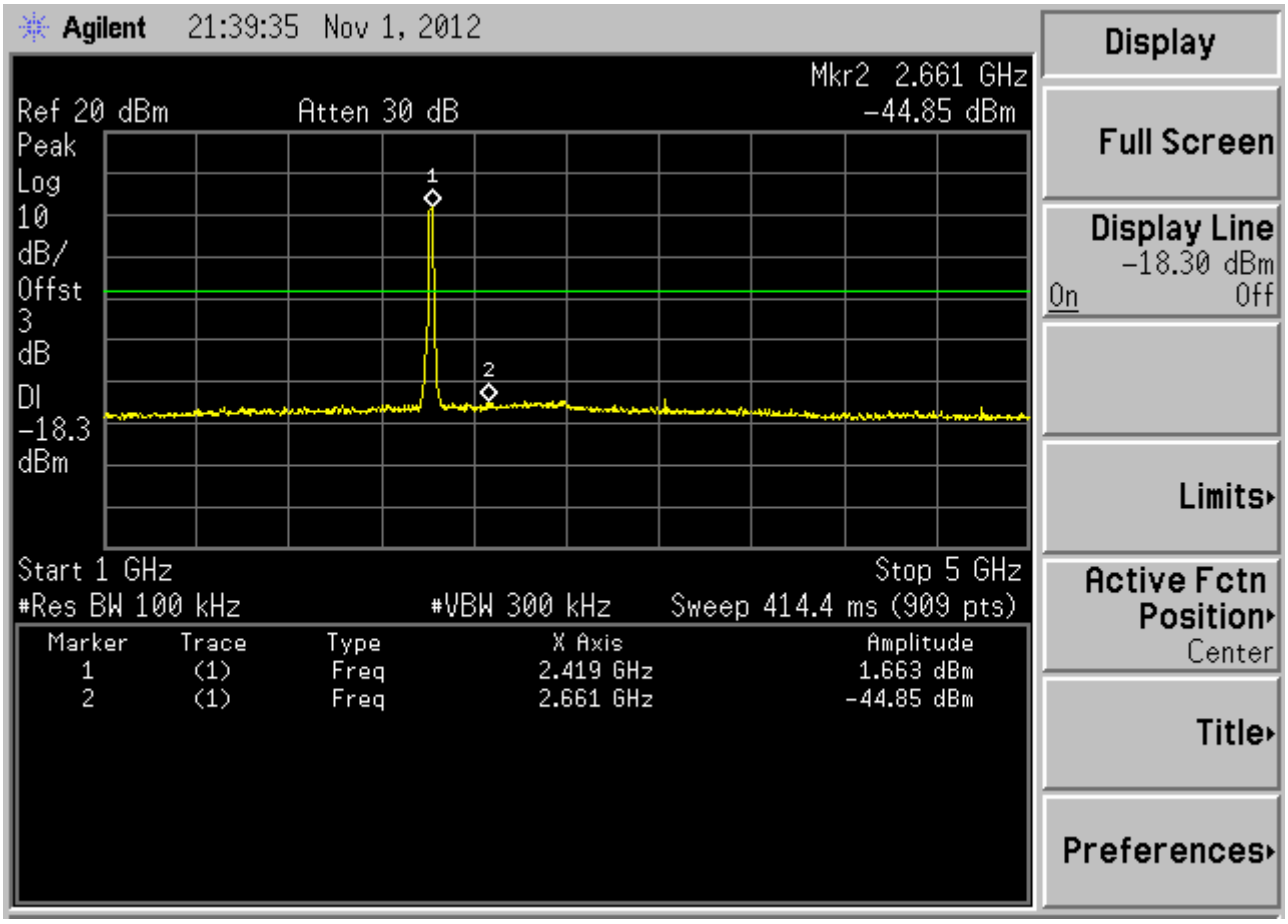

Agilent 22:06:21 Nov 1, 2012
Mkr1 14.130 GHz
Ref 0 dBm
Atten 10 dB
-64.36 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-17.7
dBm
Marker
14.129955947 GHz
-64.36 dBm
Start 10 GHz
Stop 15 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 14.130 GHz -64.36 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

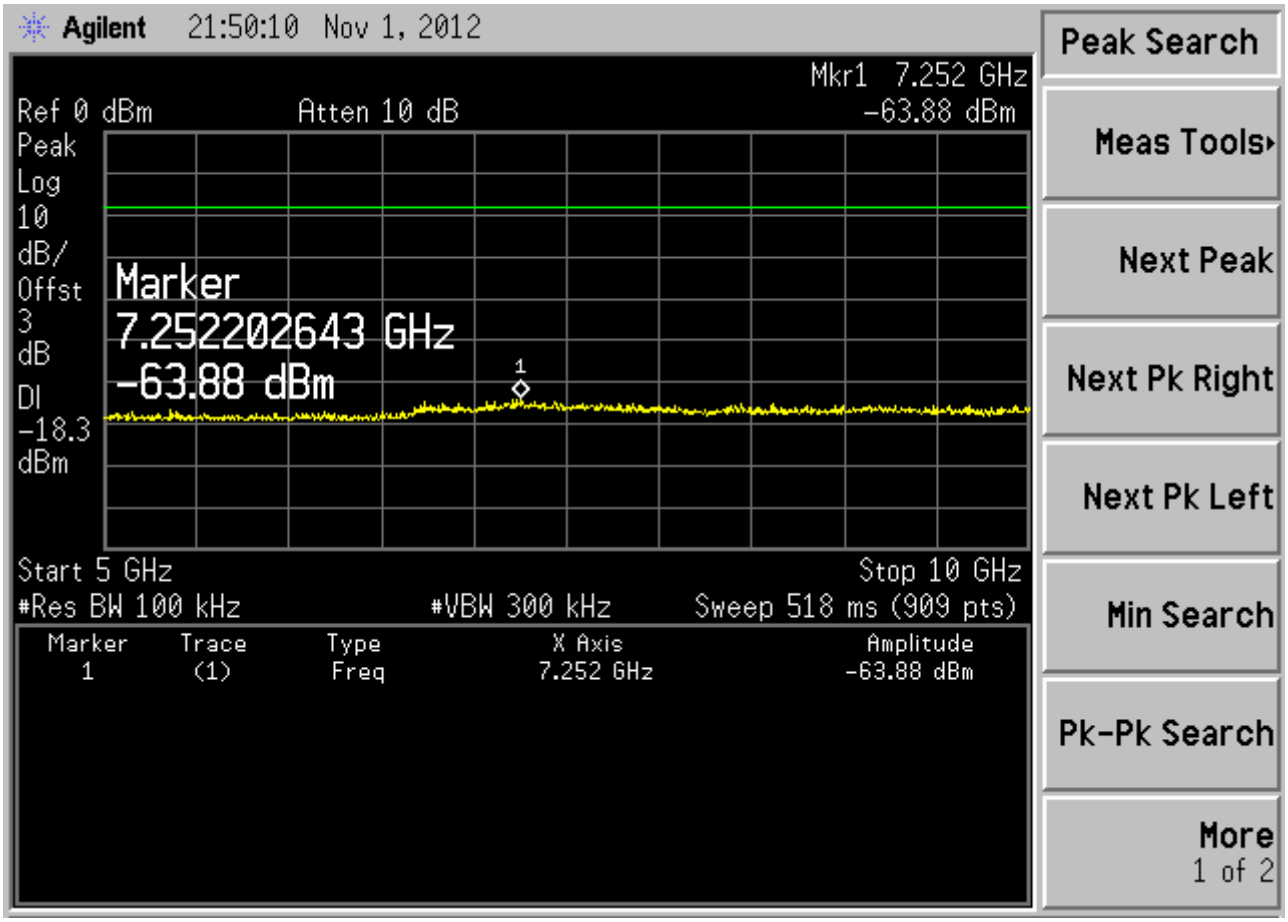

Agilent 22:06:49 Nov 1, 2012
Mkr1 16.256 GHz
Ref 0 dBm
Atten 10 dB
-63.75 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-17.7
dBm
Marker
16.255506607 GHz
-63.75 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 16.256 GHz -63.75 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

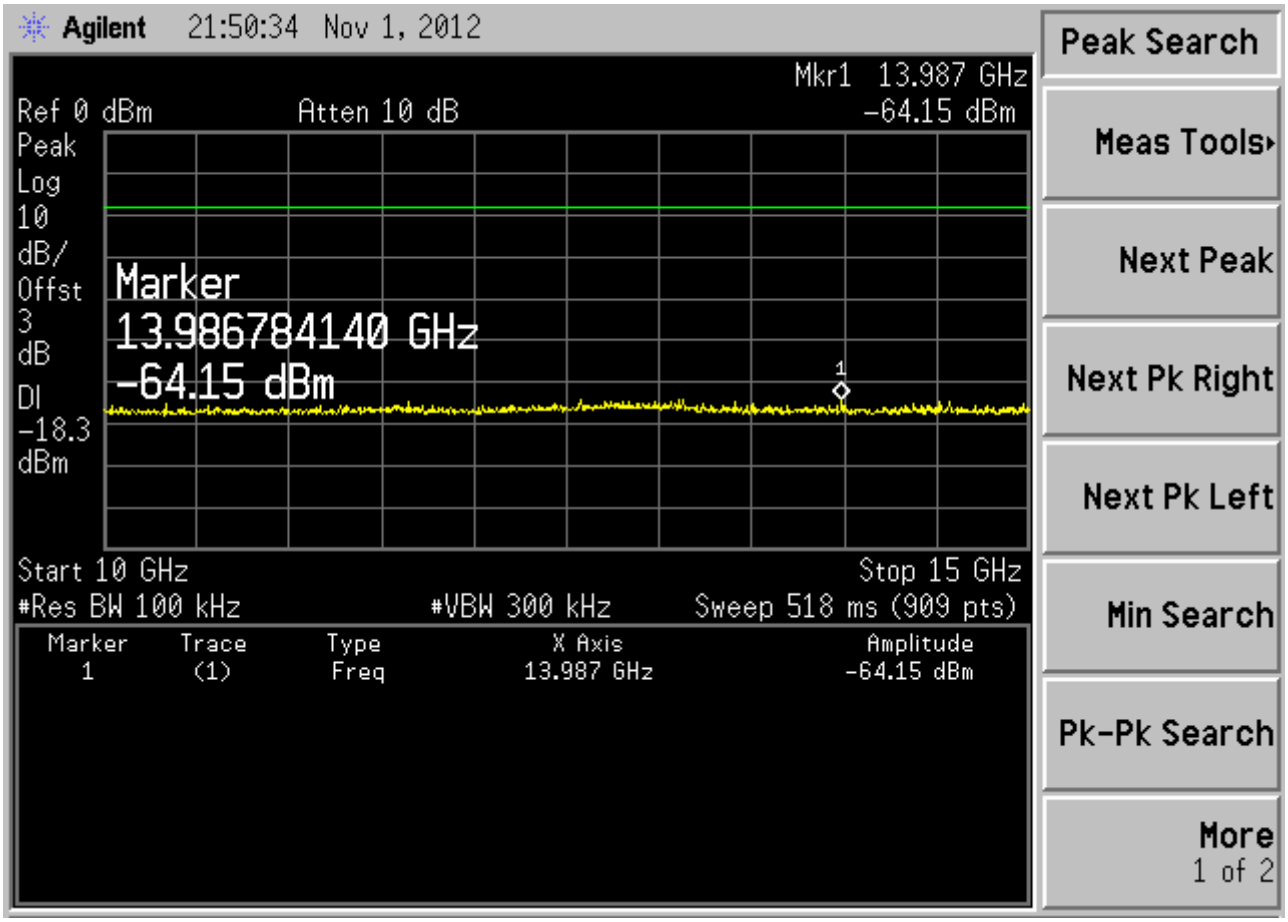

Agilent 22:07:14 Nov 1, 2012
Mkr1 24.317 GHz
Ref 0 dBm
Atten 10 dB
-61.9 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-17.7
dBm
Marker
24.317180616 GHz
-61.9 dBm
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.317 GHz -61.9 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

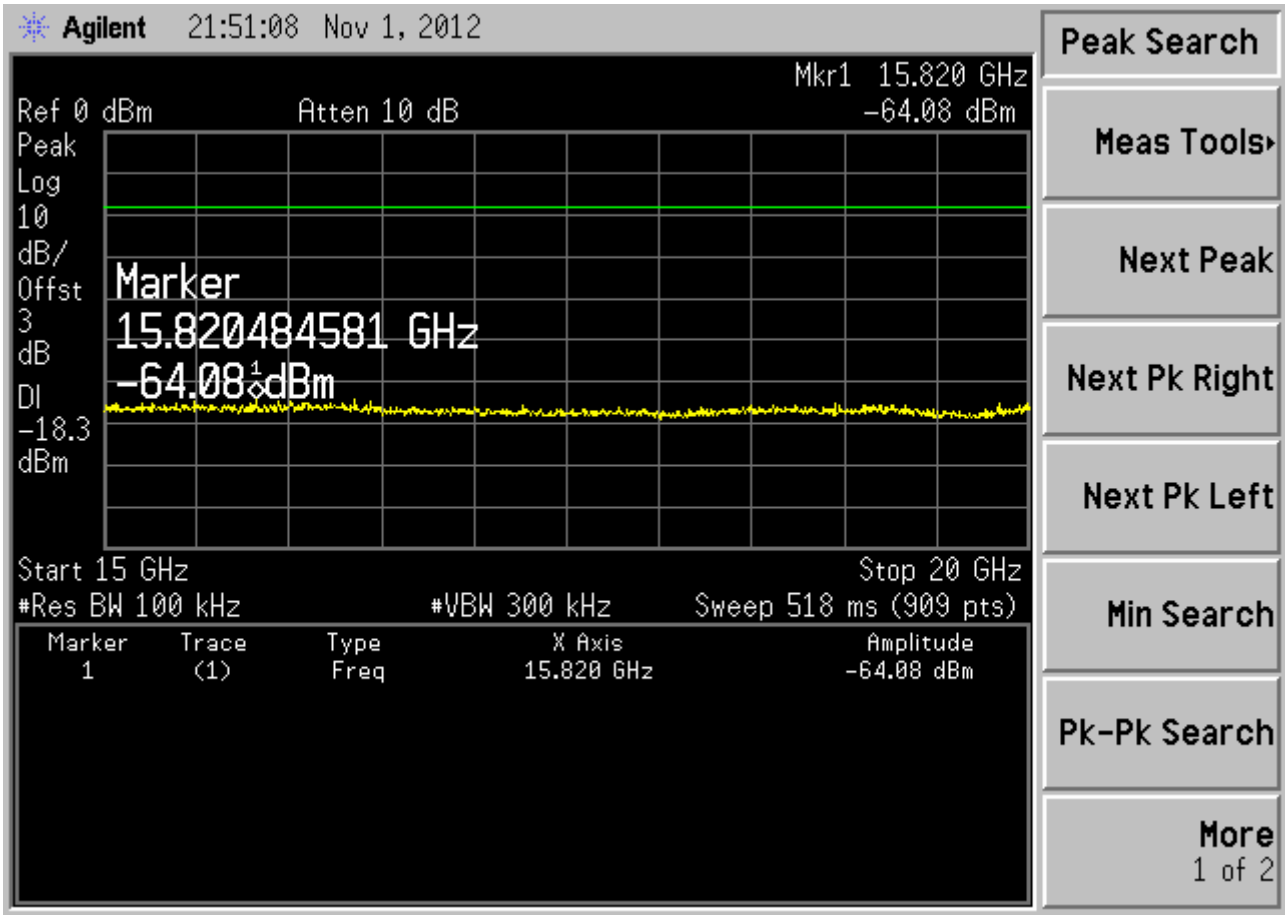
**802.11n HT20 Ch 01 (2412 MHz)**

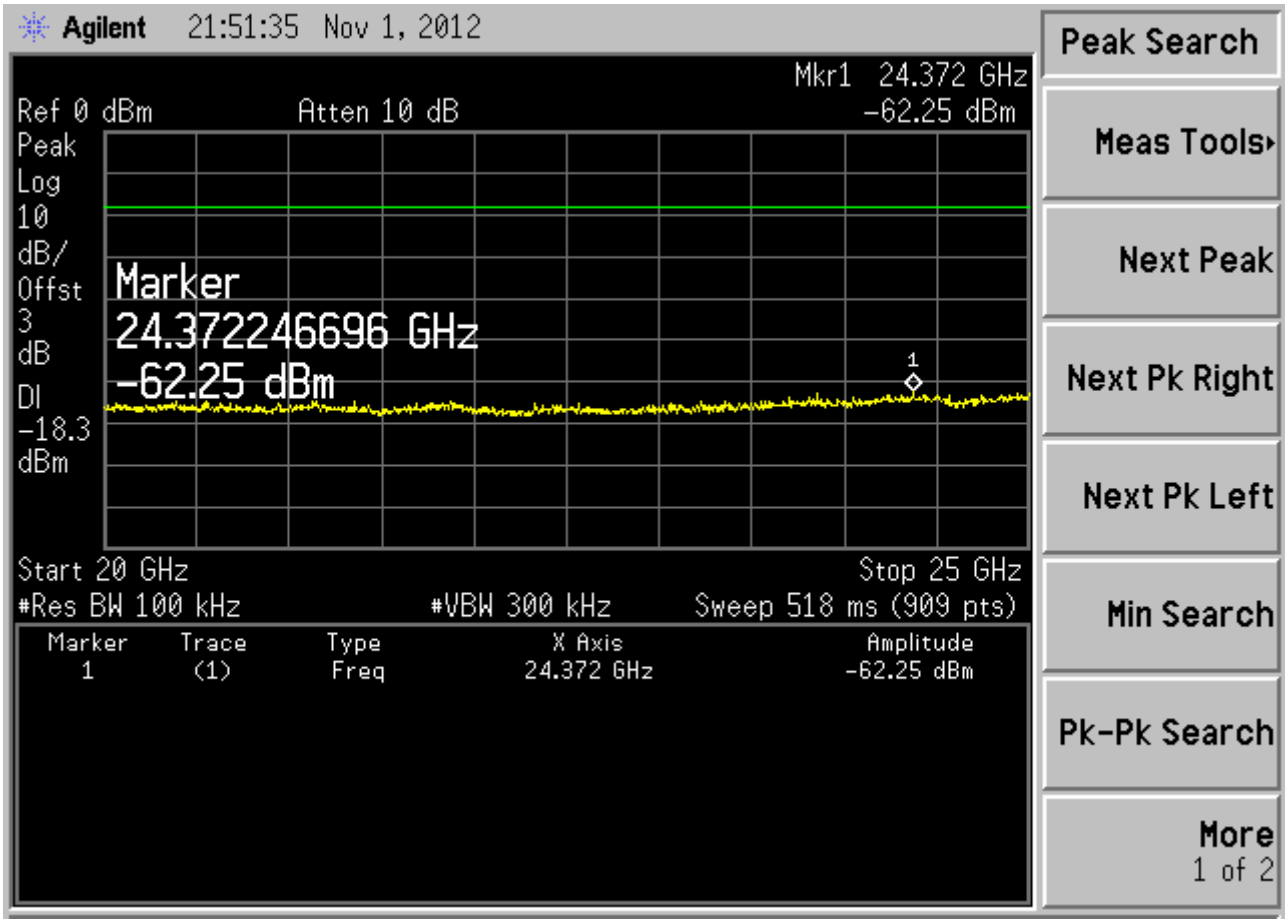


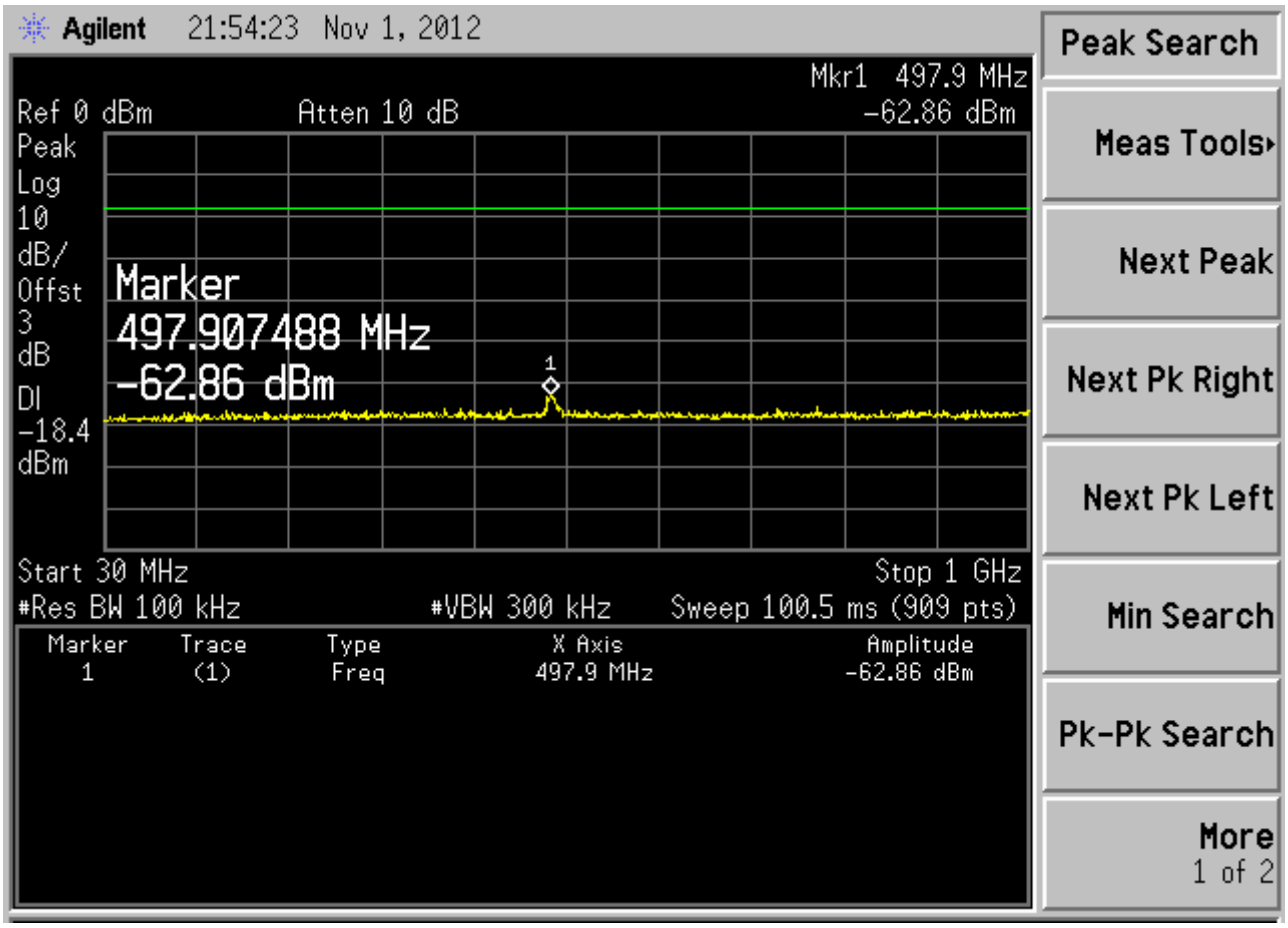

Agilent 21:50:10 Nov 1, 2012
Mkr1 7.252 GHz
Ref 0 dBm
Atten 10 dB
-63.88 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-18.3
dBm
Marker
7.252202643 GHz
-63.88 dBm
Start 5 GHz
Stop 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.252 GHz -63.88 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

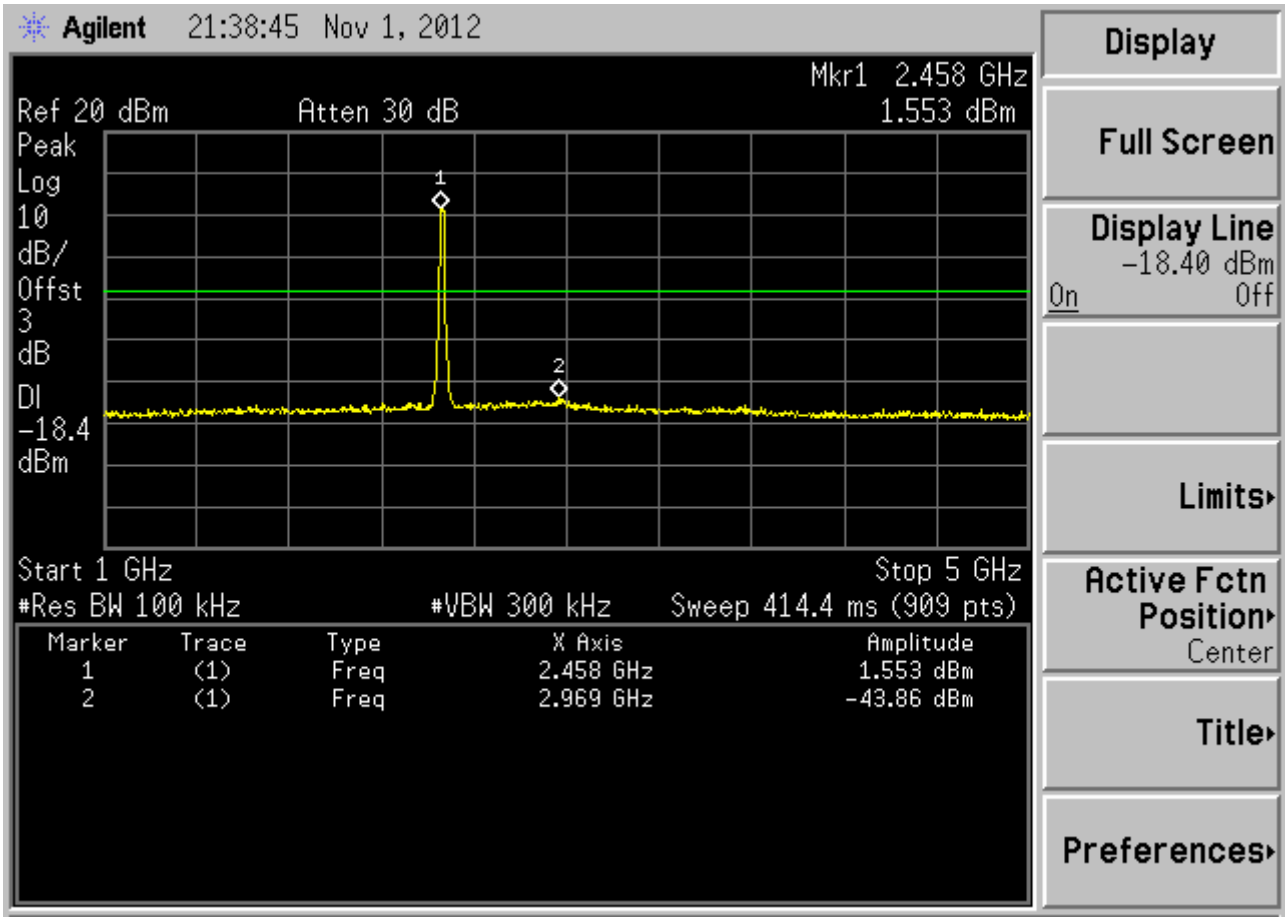

Agilent 21:50:34 Nov 1, 2012
Mkr1 13.987 GHz
Ref 0 dBm
Atten 10 dB
-64.15 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-18.3
dBm
Marker
13.986784140 GHz
-64.15 dBm
Start 10 GHz
Stop 15 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 13.987 GHz -64.15 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

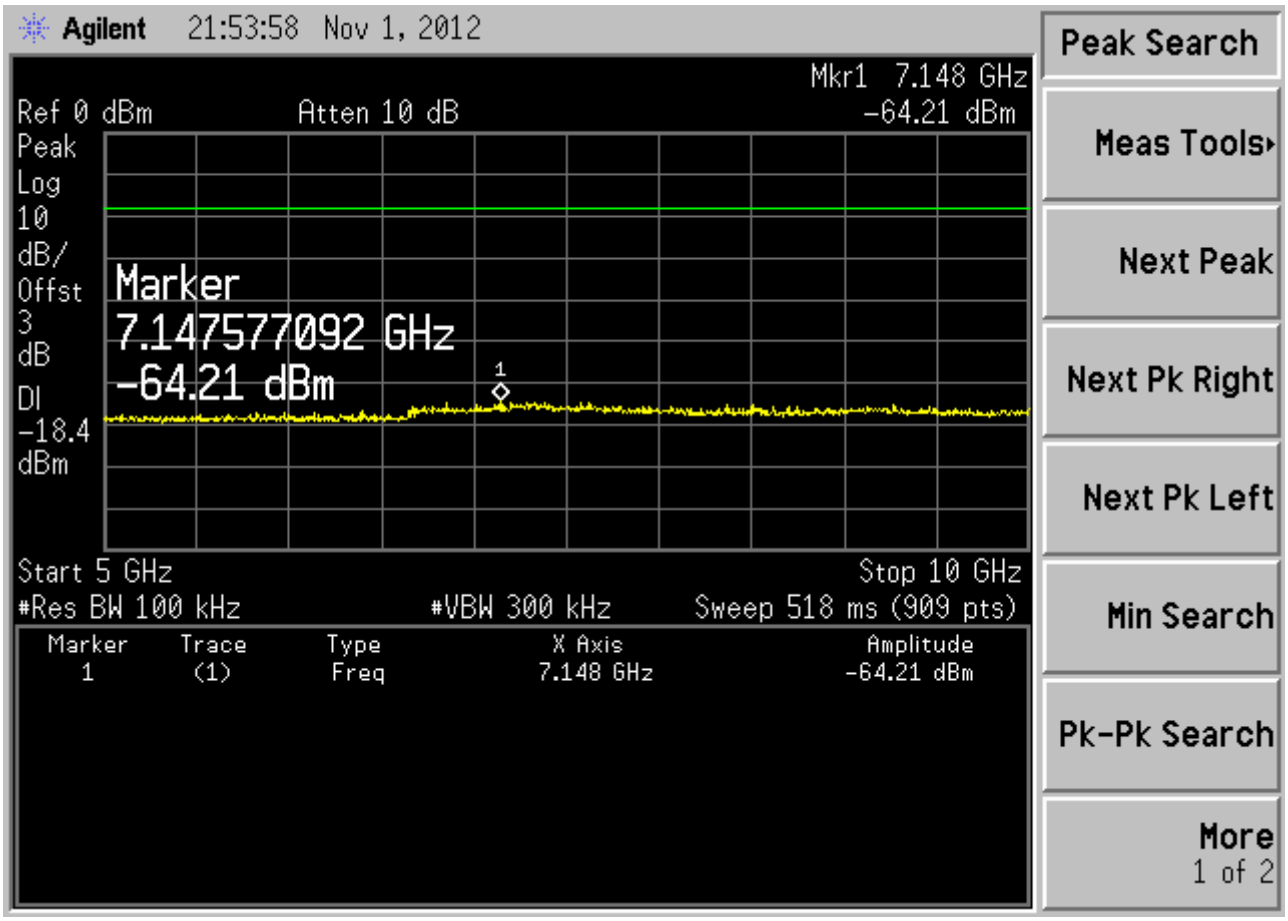

Agilent 21:51:08 Nov 1, 2012
Mkr1 15.820 GHz
Ref 0 dBm
Atten 10 dB
-64.08 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-18.3
dBm
Marker
15.820484581 GHz
-64.08 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 15.820 GHz -64.08 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

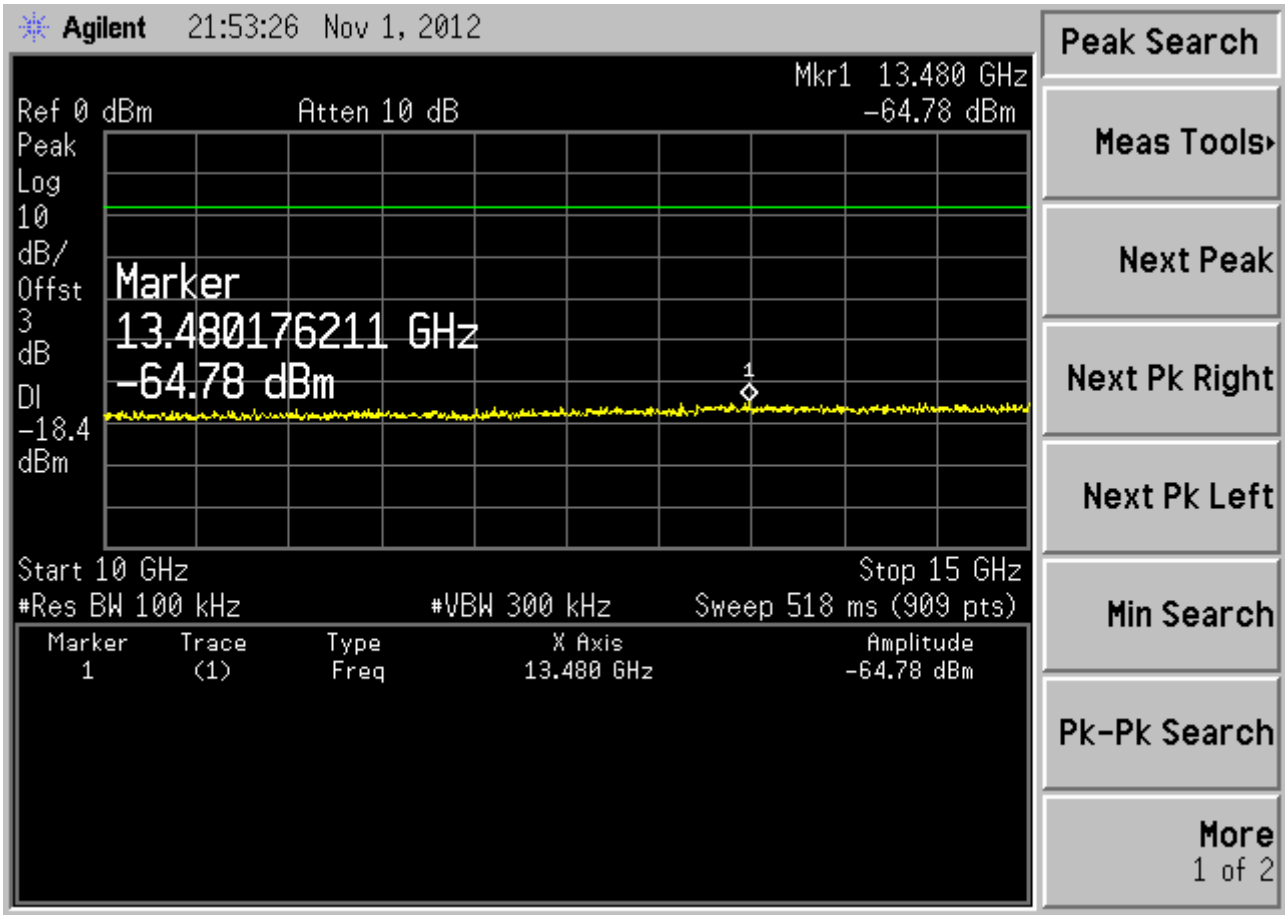

Agilent 21:51:35 Nov 1, 2012
Mkr1 24.372 GHz
Ref 0 dBm
Atten 10 dB
-62.25 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-18.3
dBm
Marker
24.372246696 GHz
-62.25 dBm
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.372 GHz -62.25 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

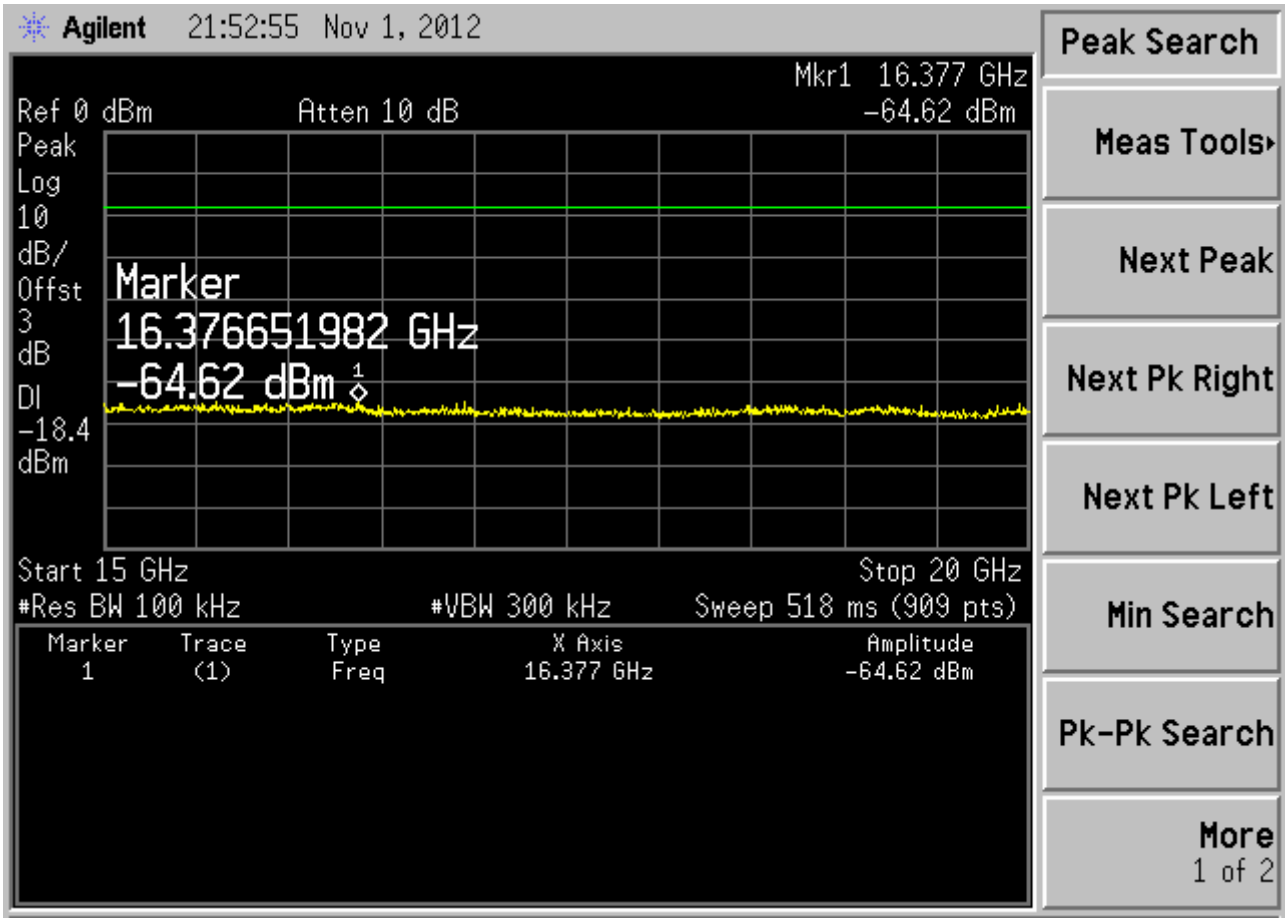
**802.11n HT20 Ch 11 (2462 MHz)**

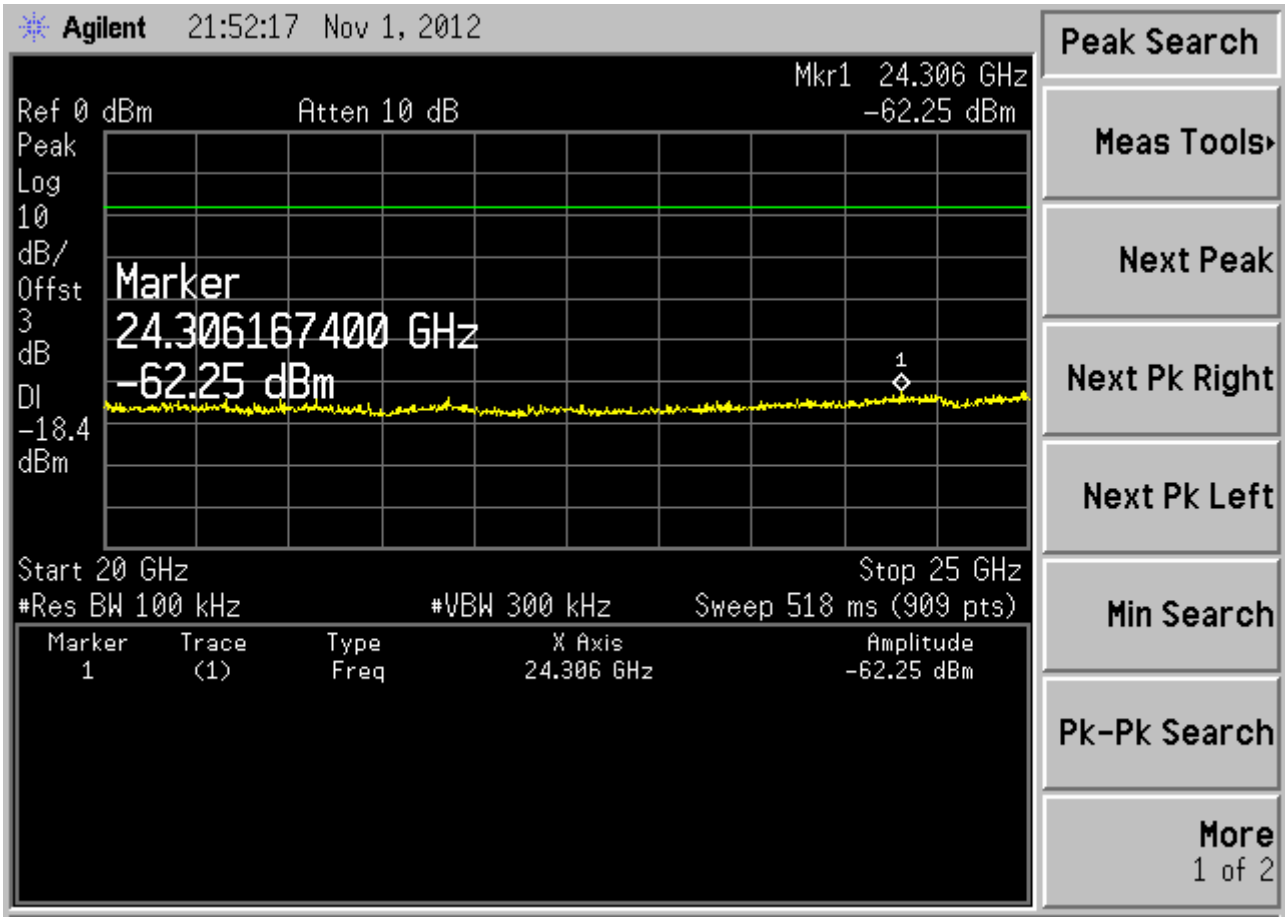


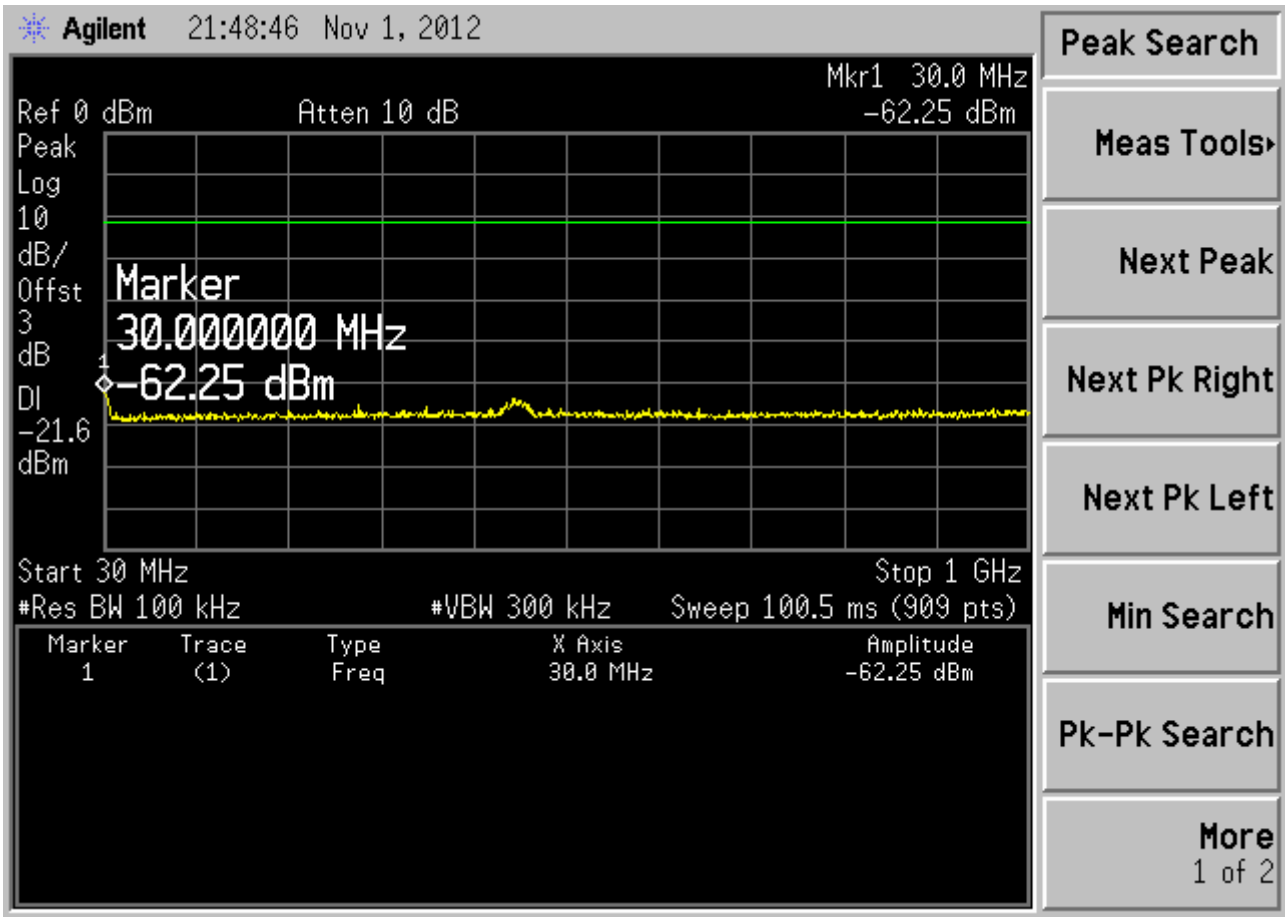

Agilent 21:53:58 Nov 1, 2012
Mkr1 7.148 GHz
Ref 0 dBm
Atten 10 dB
-64.21 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-18.4
dBm
Marker
7.147577092 GHz
-64.21 dBm
Start 5 GHz
Stop 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.148 GHz -64.21 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

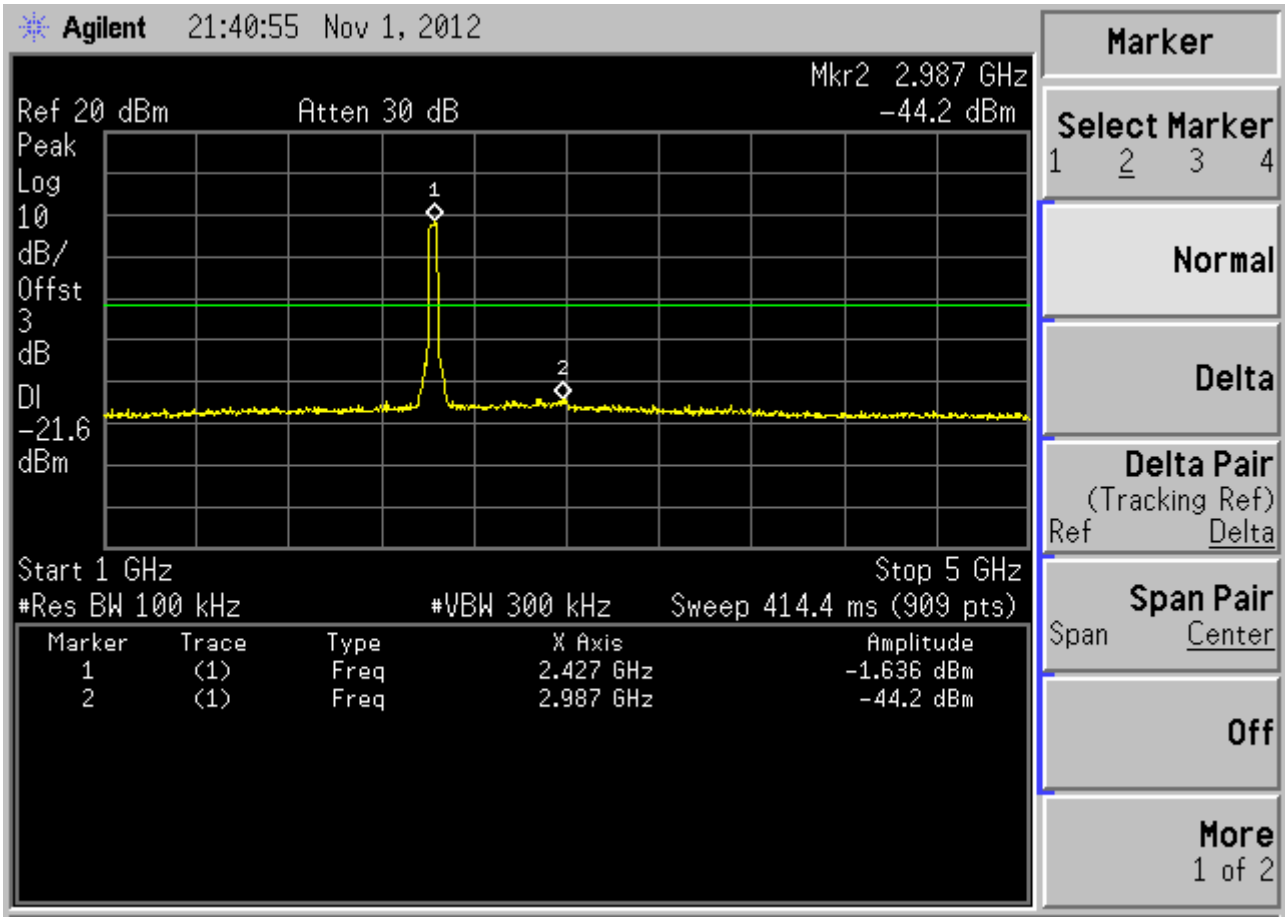

Agilent 21:53:26 Nov 1, 2012
Mkr1 13.480 GHz
Ref 0 dBm
Atten 10 dB
-64.78 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-18.4
dBm
Marker
13.480176211 GHz
-64.78 dBm
Start 10 GHz
Stop 15 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 13.480 GHz -64.78 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

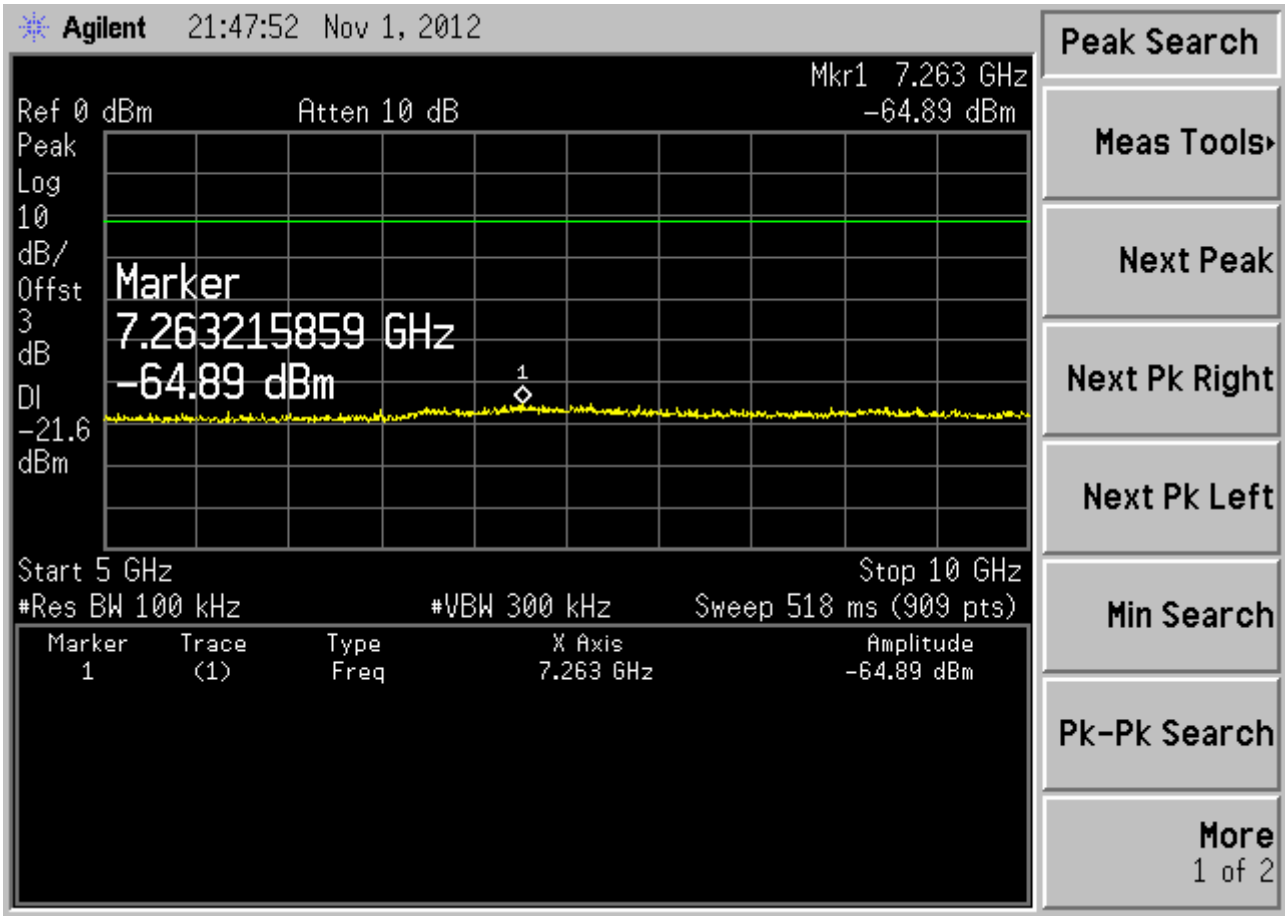

Agilent 21:52:55 Nov 1, 2012
Mkr1 16.377 GHz
Ref 0 dBm
Atten 10 dB
-64.62 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-18.4
dBm
Marker
16.376651982 GHz
-64.62 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 16.377 GHz -64.62 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

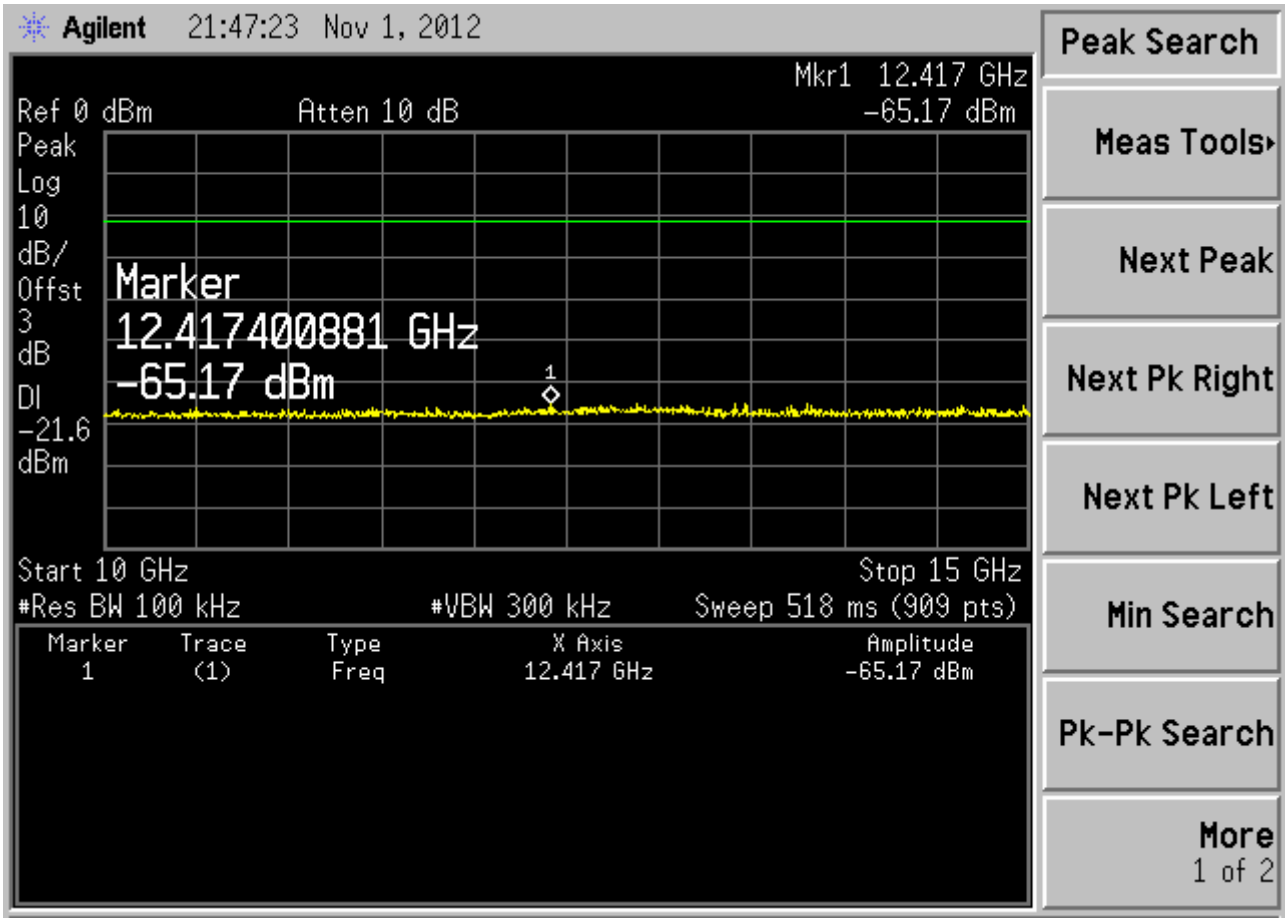

Agilent 21:52:17 Nov 1, 2012
Mkr1 24.306 GHz
Ref 0 dBm
Atten 10 dB
-62.25 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-18.4
dBm
Marker
24.306167400 GHz
-62.25 dBm
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.306 GHz -62.25 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

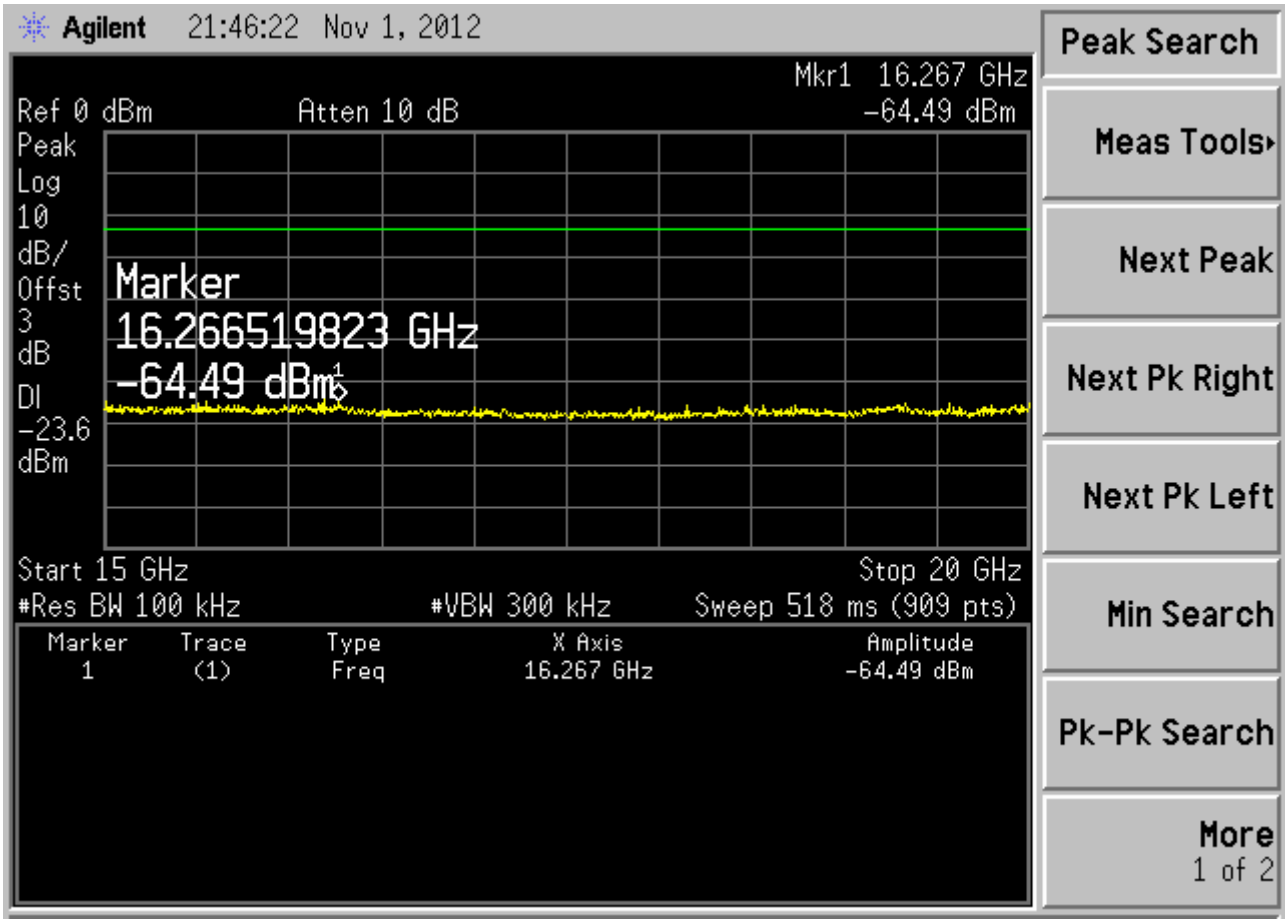
**802.11n HT40 Ch 03 (2422 MHz)**

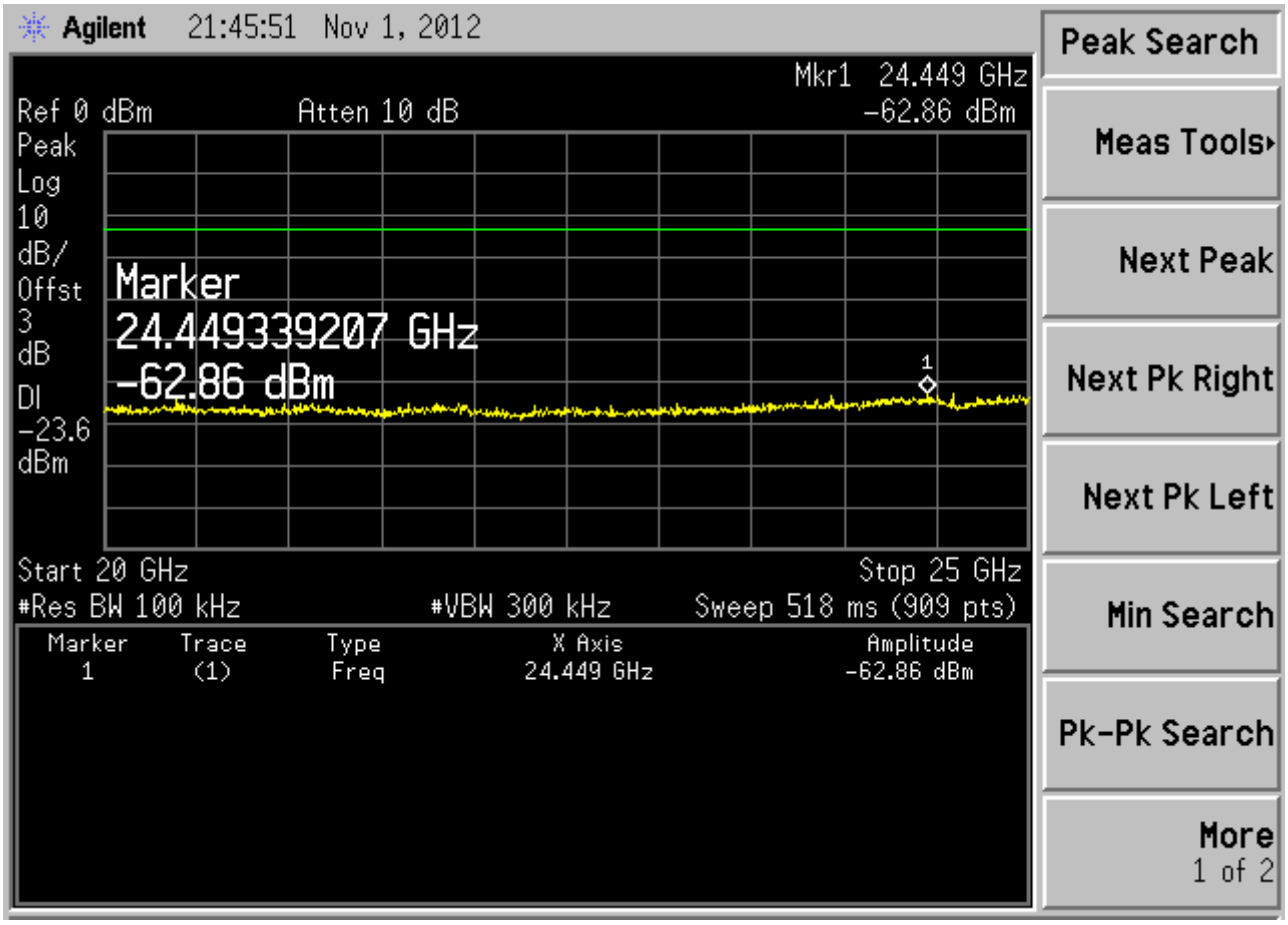


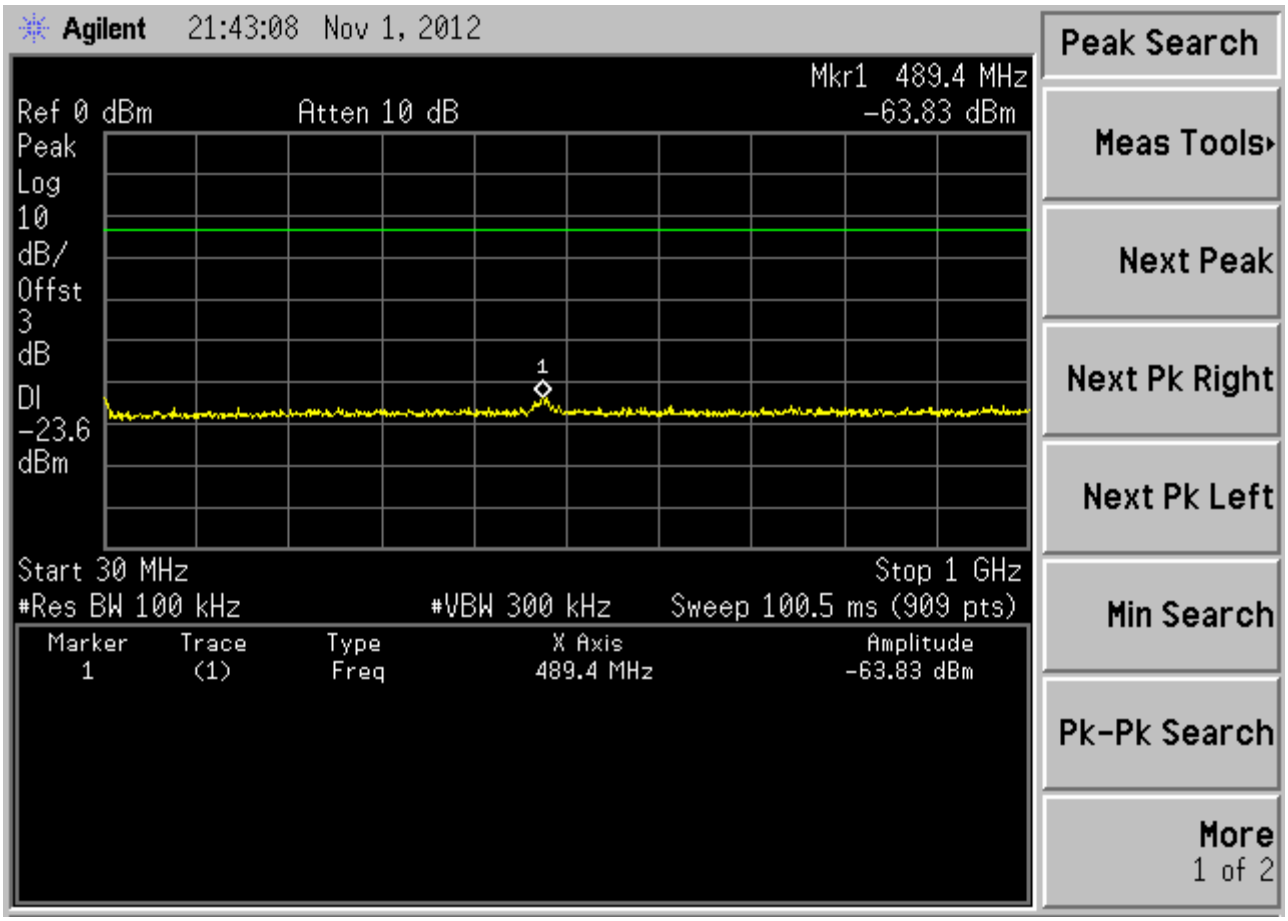

Agilent 21:47:52 Nov 1, 2012
Mkr1 7.263 GHz
Ref 0 dBm
Atten 10 dB
-64.89 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-21.6
dBm
Marker
7.263215859 GHz
-64.89 dBm
Start 5 GHz
Stop 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.263 GHz -64.89 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

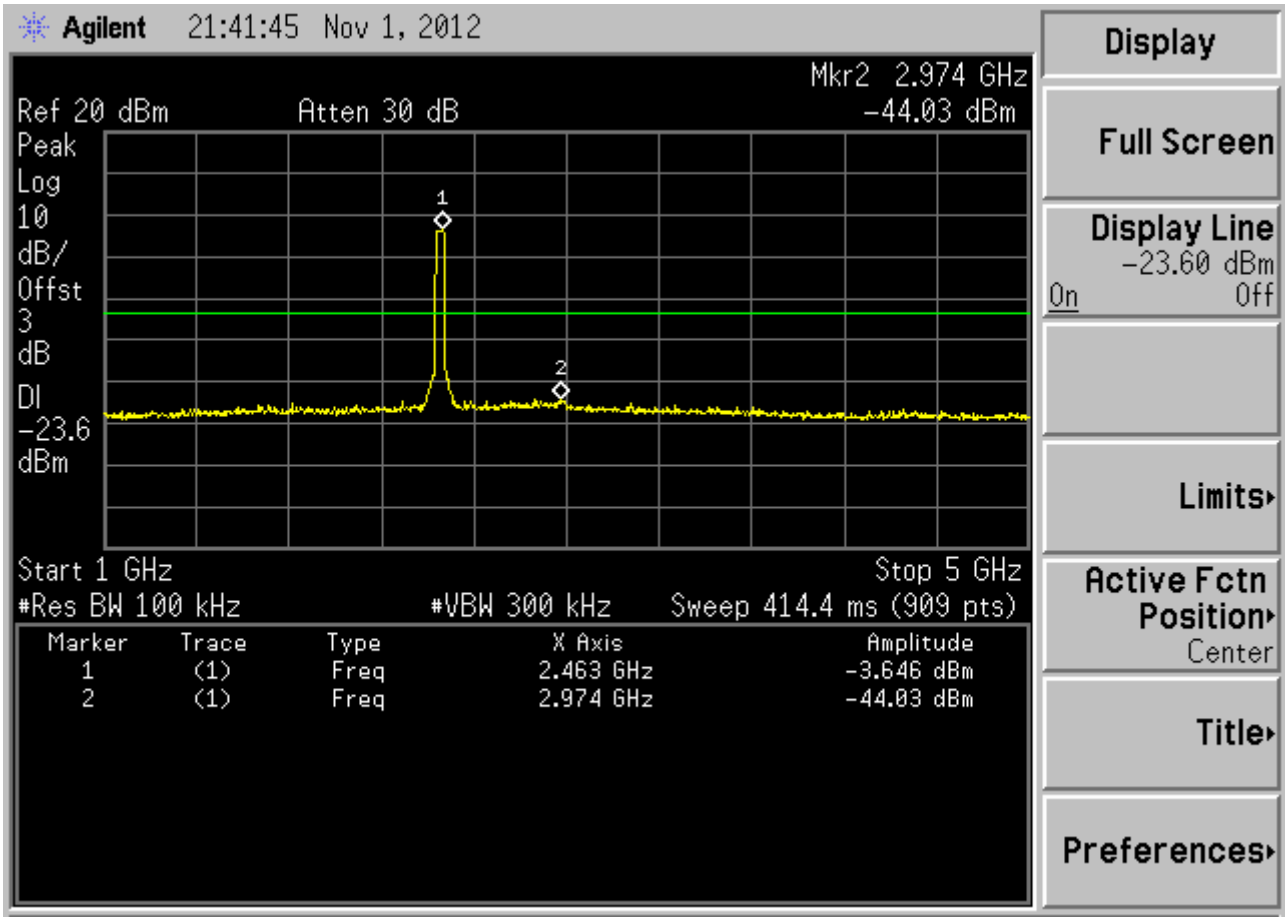

Agilent 21:47:23 Nov 1, 2012
Mkr1 12.417 GHz
Ref 0 dBm
Atten 10 dB
-65.17 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-21.6
dBm
Marker
12.417400881 GHz
-65.17 dBm
Start 10 GHz
Stop 15 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 12.417 GHz -65.17 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

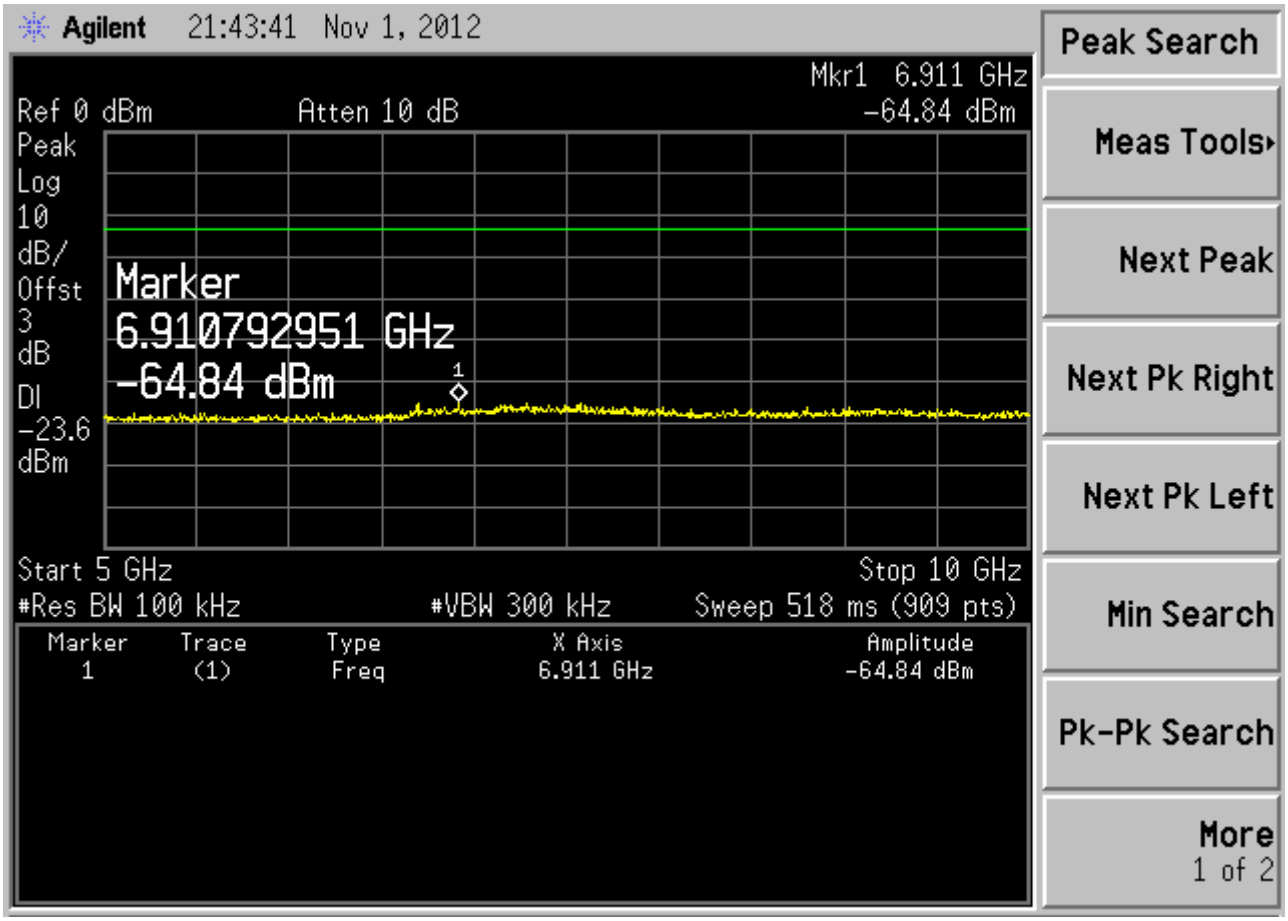

Agilent 21:46:22 Nov 1, 2012
Mkr1 16.267 GHz
Ref 0 dBm
Atten 10 dB
-64.49 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-23.6
dBm
Marker
16.266519823 GHz
-64.49 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 16.267 GHz -64.49 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

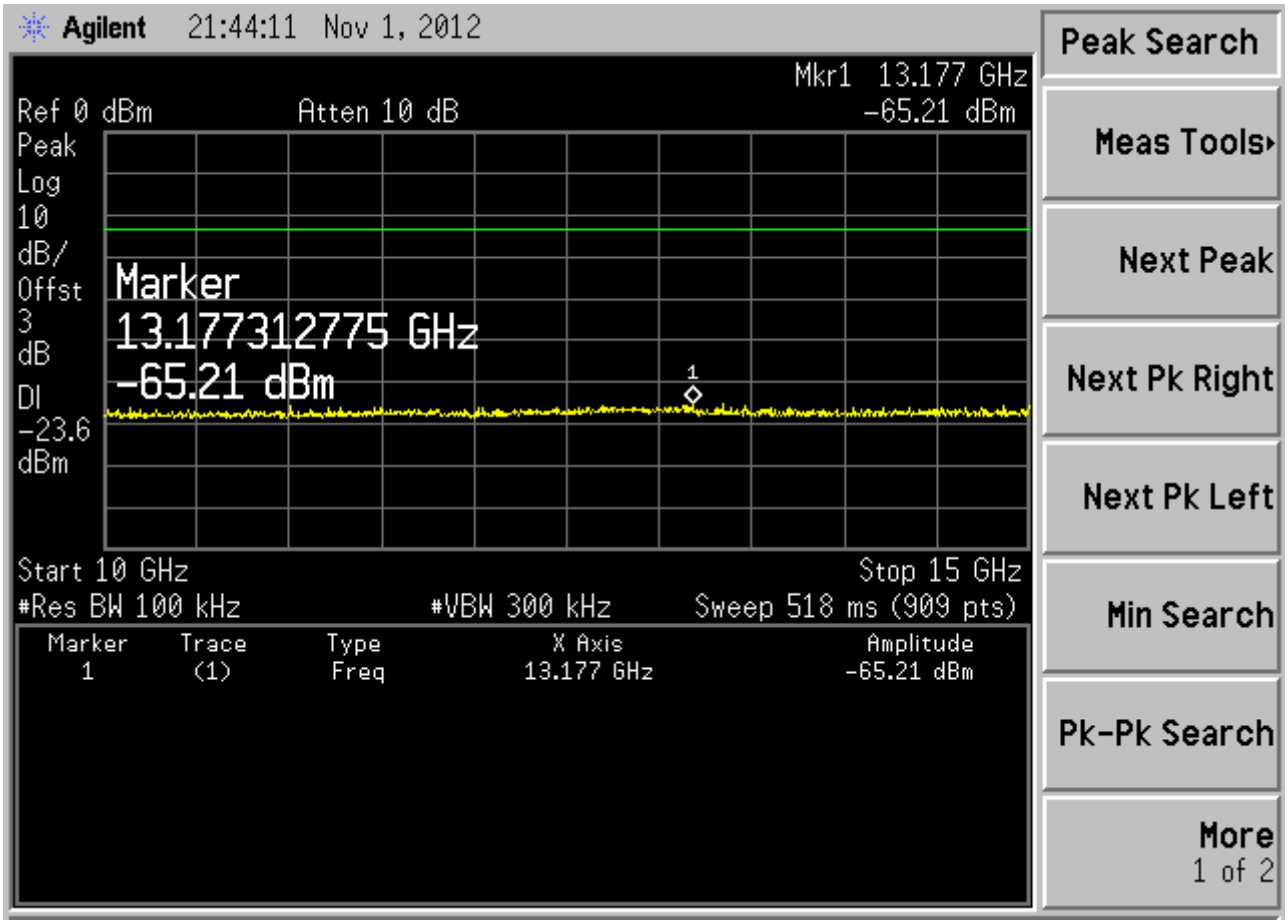

Agilent 21:45:51 Nov 1, 2012
Mkr1 24.449 GHz
Ref 0 dBm
Atten 10 dB
-62.86 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-23.6
dBm
Marker
24.449339207 GHz
-62.86 dBm
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.449 GHz -62.86 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

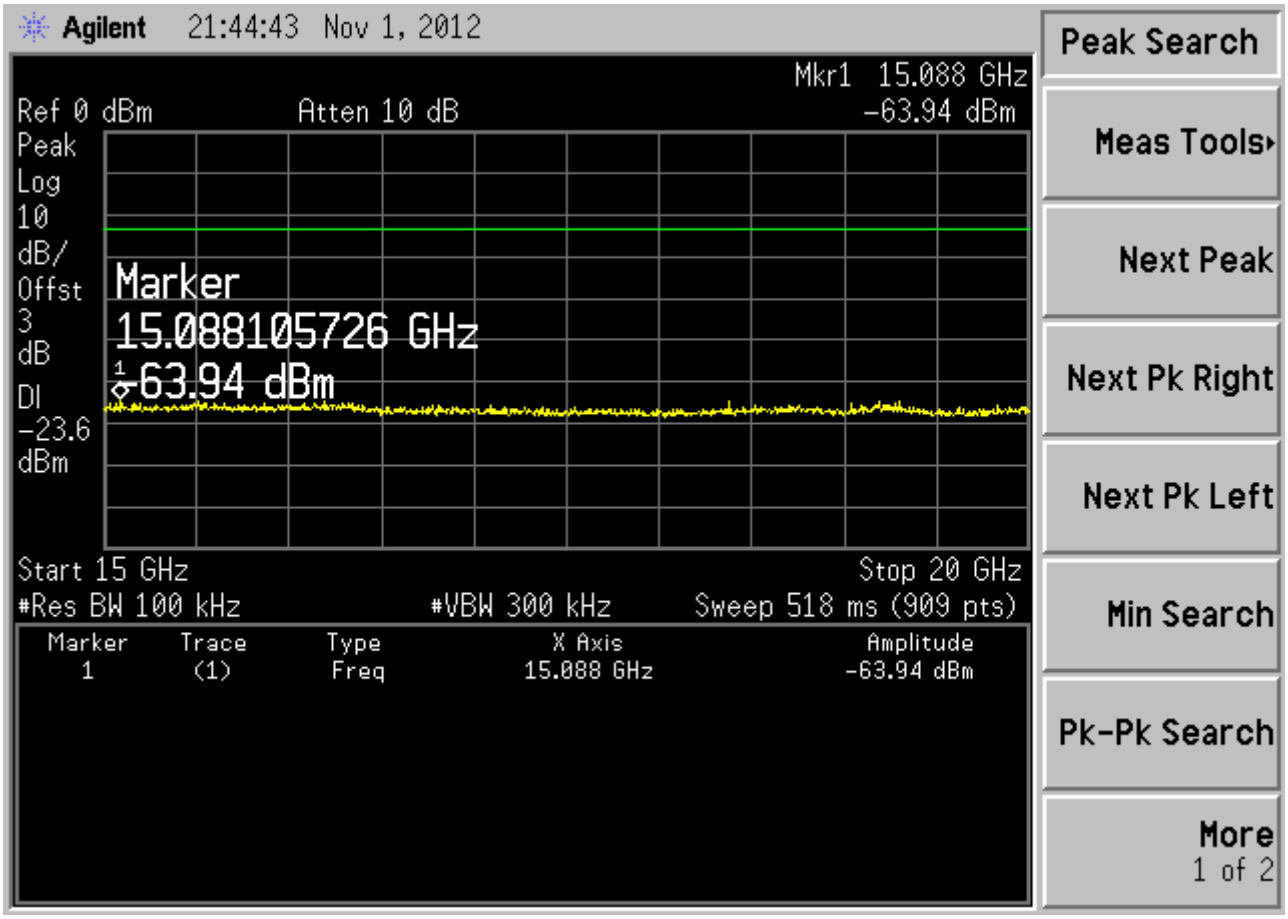
**802.11n HT40 Ch 09 (2452 MHz)**

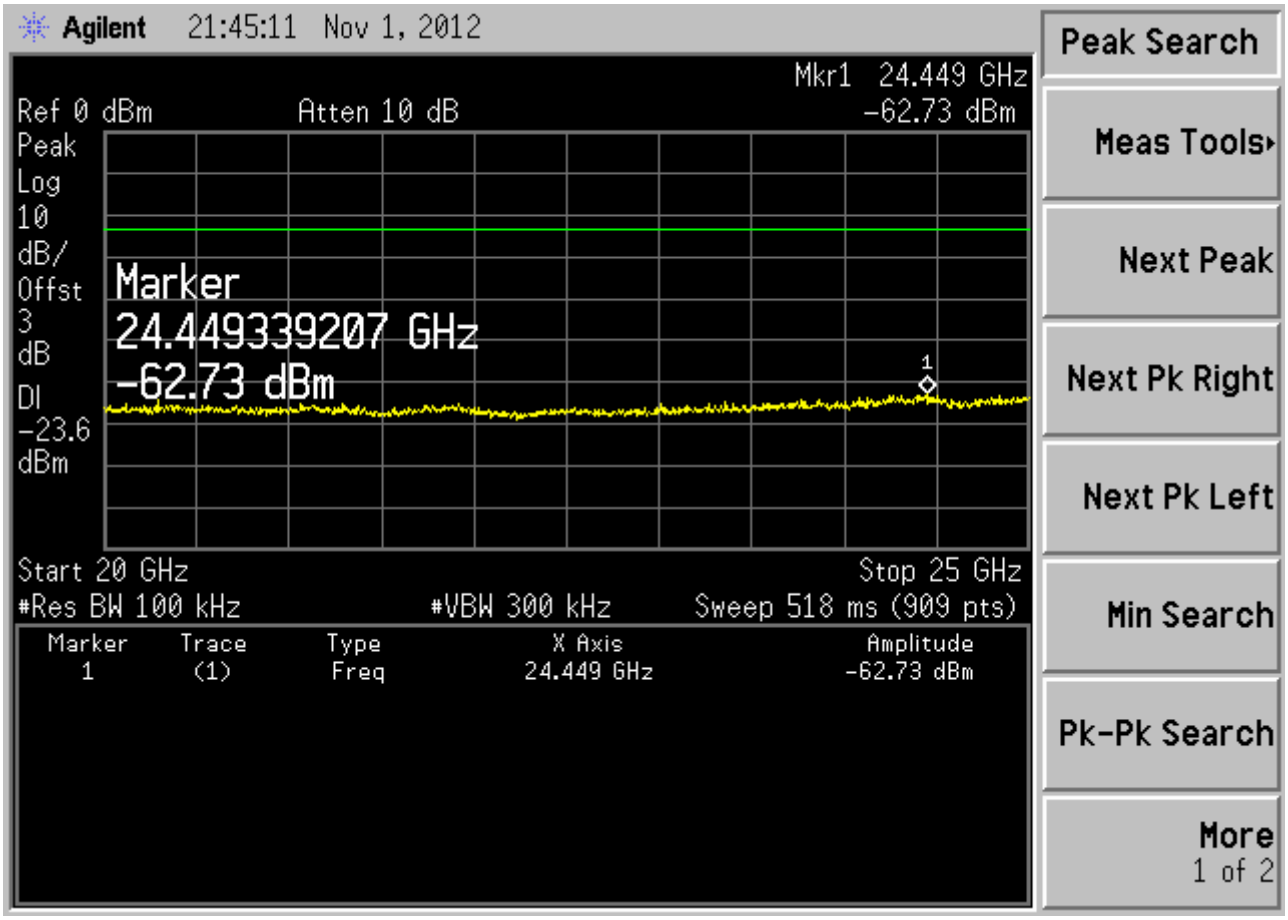


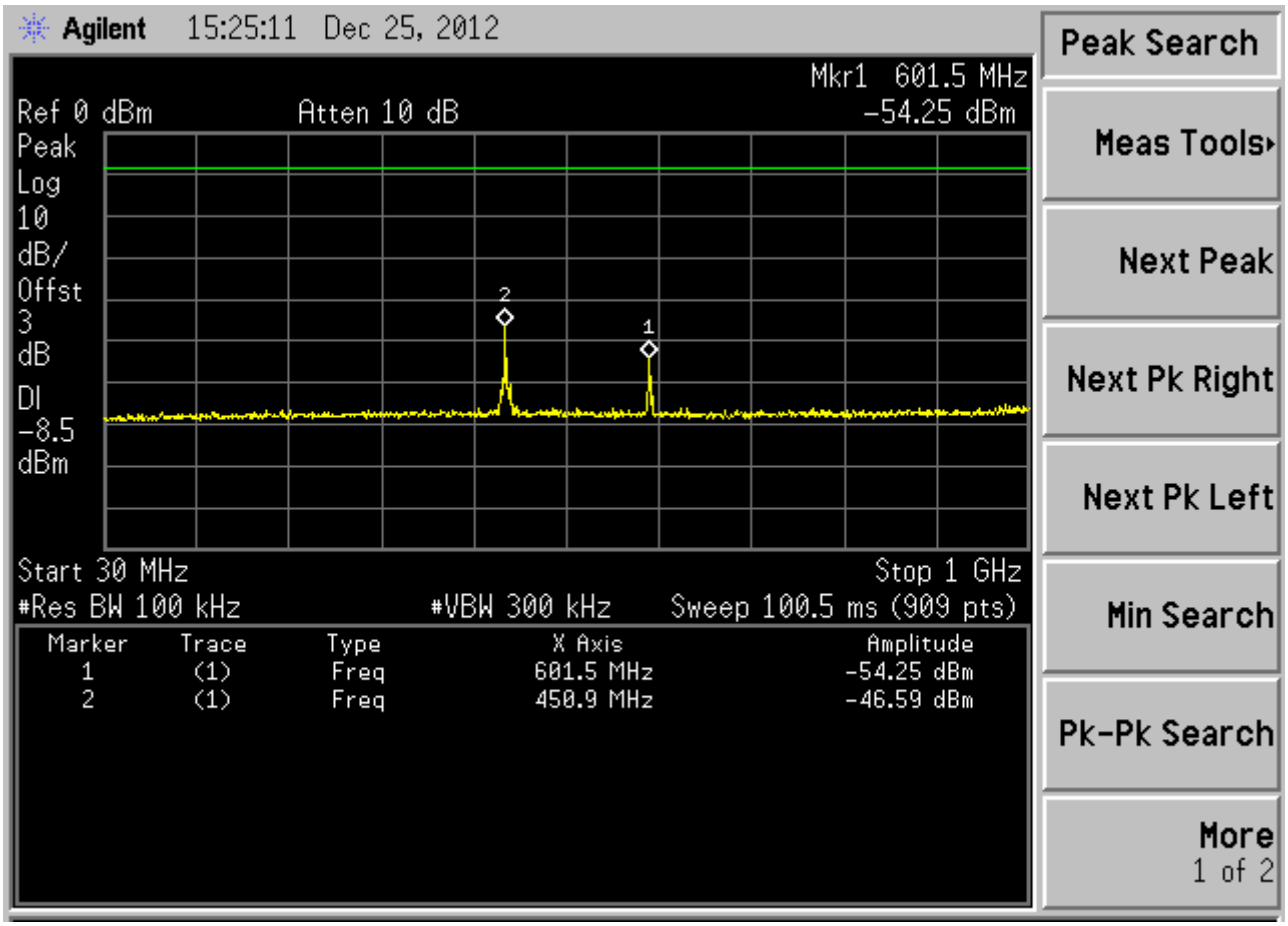

Agilent 21:43:41 Nov 1, 2012
Mkr1 6.911 GHz
Ref 0 dBm
Atten 10 dB
-64.84 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-23.6
dBm
Marker
6.910792951 GHz
-64.84 dBm
Start 5 GHz
Stop 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 6.911 GHz -64.84 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

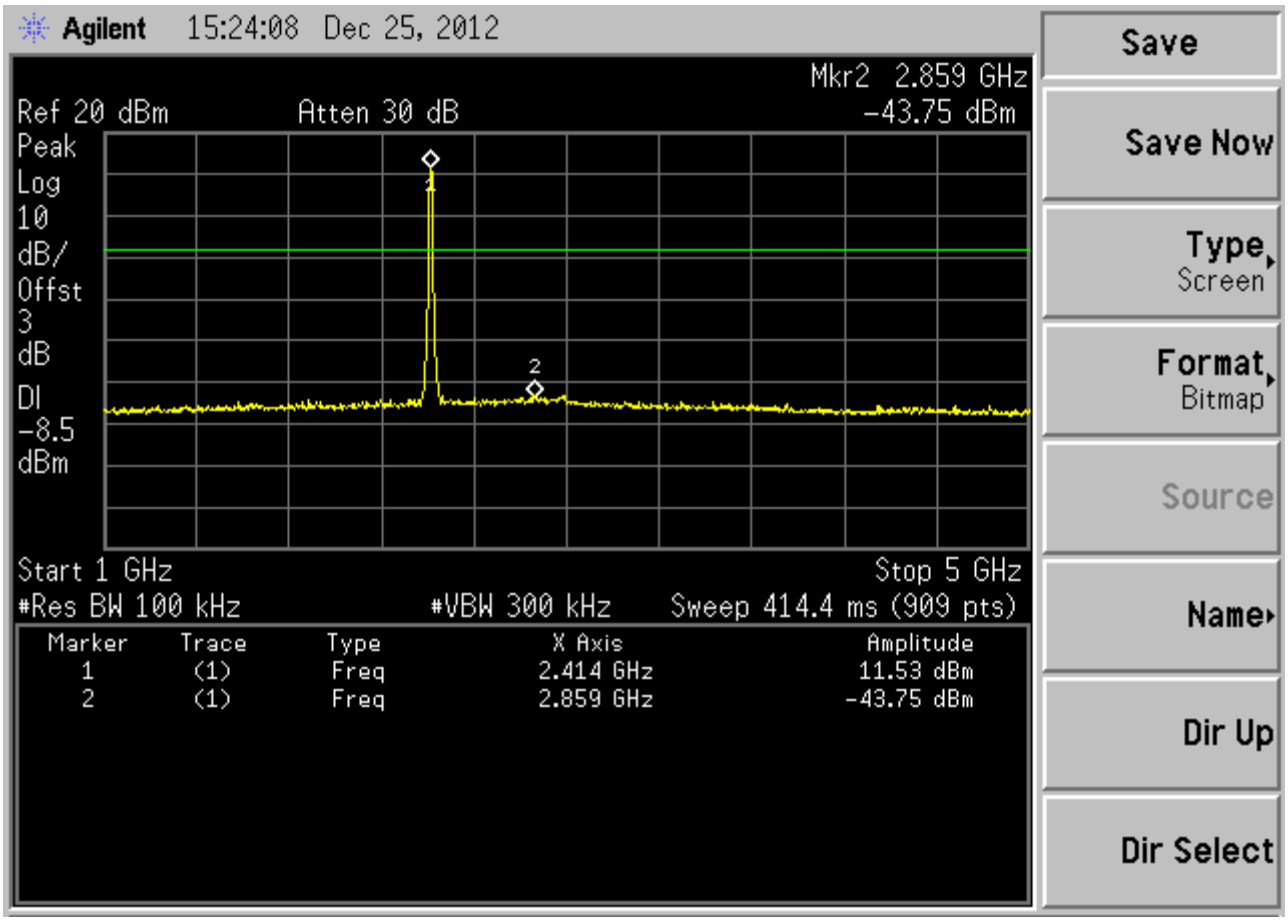

Agilent 21:44:11 Nov 1, 2012
Mkr1 13.177 GHz
Ref 0 dBm
Atten 10 dB
-65.21 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-23.6
dBm
Marker
13.177312775 GHz
-65.21 dBm
Start 10 GHz
Stop 15 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 13.177 GHz -65.21 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

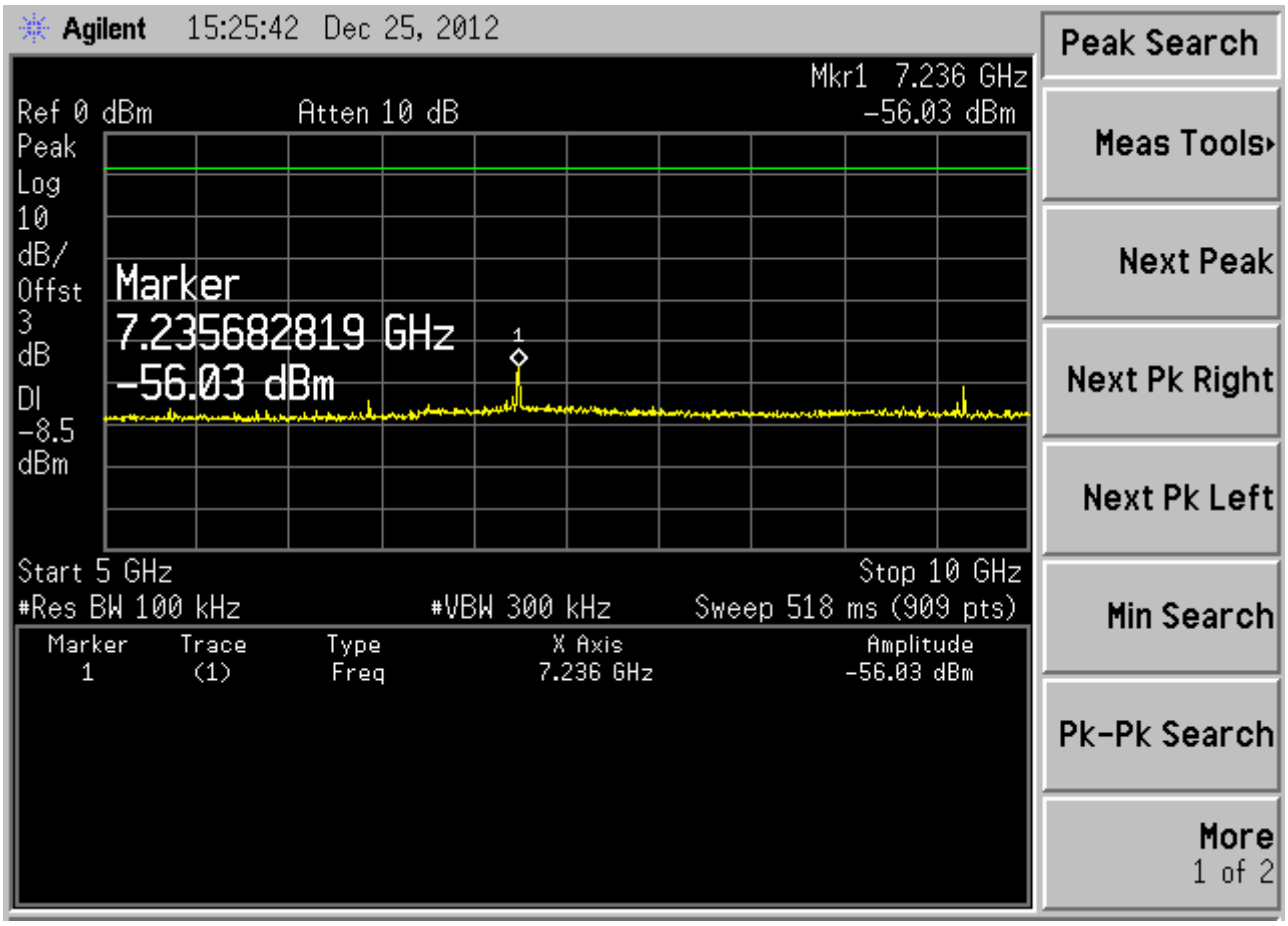

Agilent 21:44:43 Nov 1, 2012
Mkr1 15.088 GHz
Ref 0 dBm
Atten 10 dB
-63.94 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-23.6
dBm
Marker
15.088105726 GHz
1
-63.94 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 15.088 GHz -63.94 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

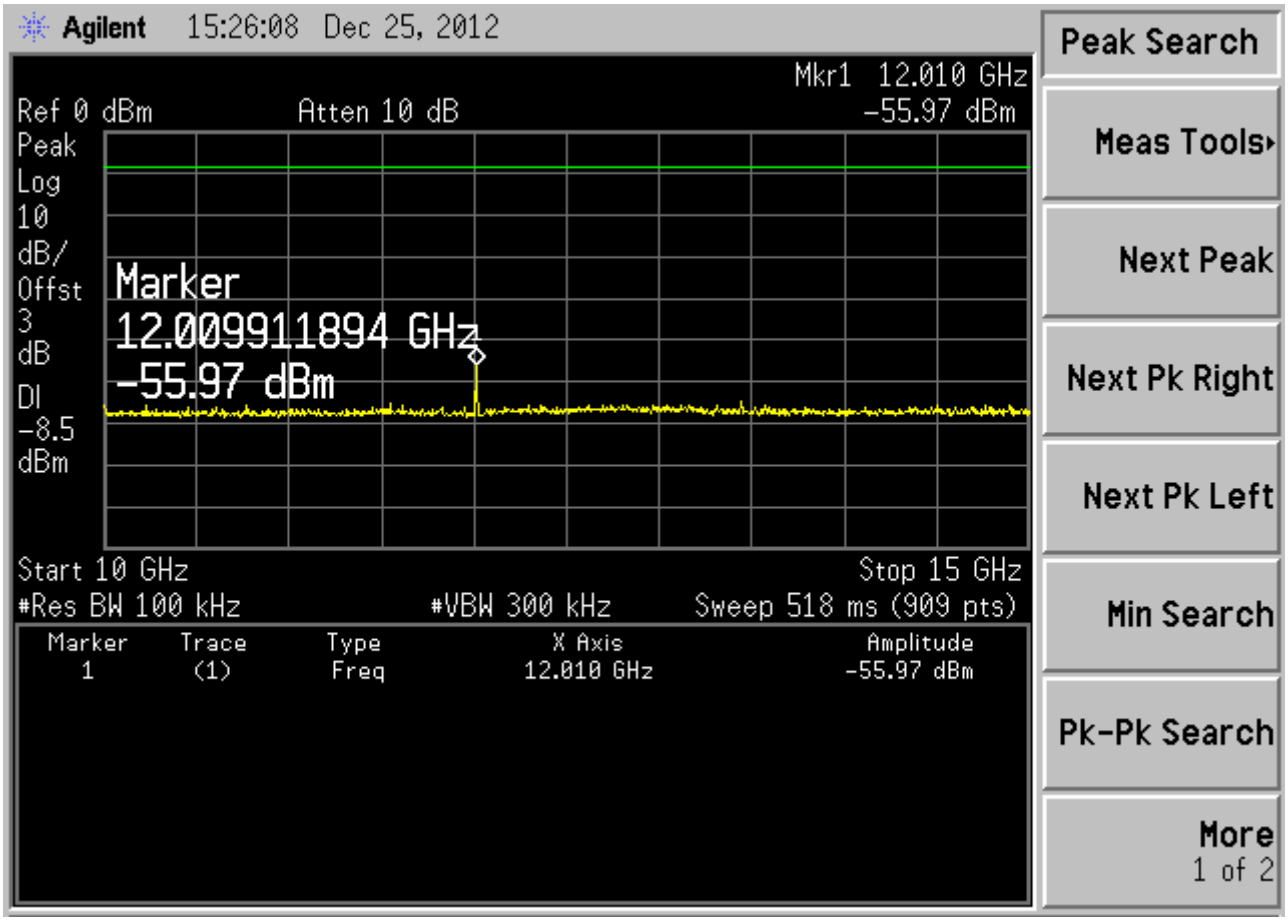

Agilent 21:45:11 Nov 1, 2012
Mkr1 24.449 GHz
Ref 0 dBm
Atten 10 dB
-62.73 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-23.6
dBm
Marker
24.449339207 GHz
-62.73 dBm
1
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.449 GHz -62.73 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

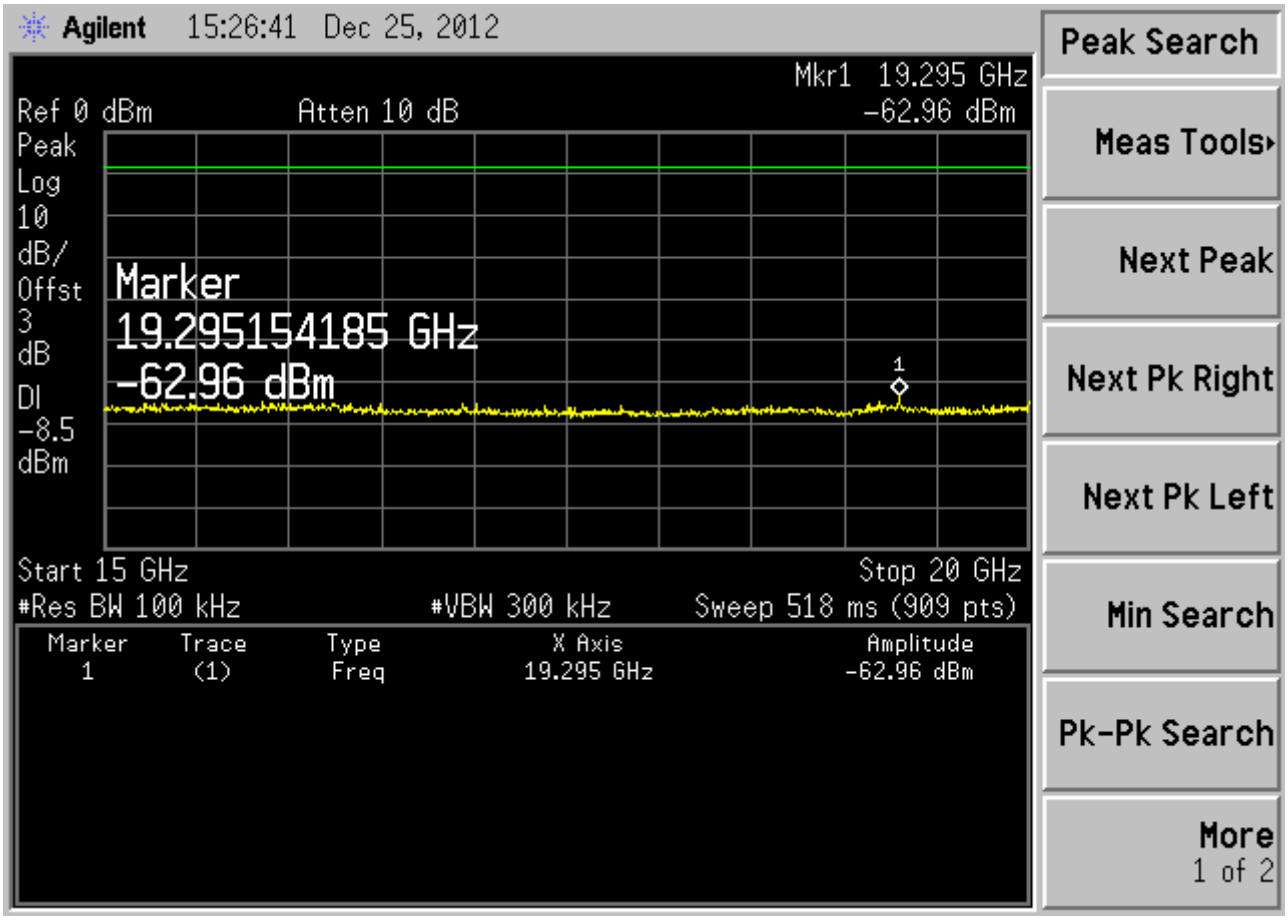
**802.11b Ch 01 (2412 MHz) + BT Ch 00 (2402 MHz)**

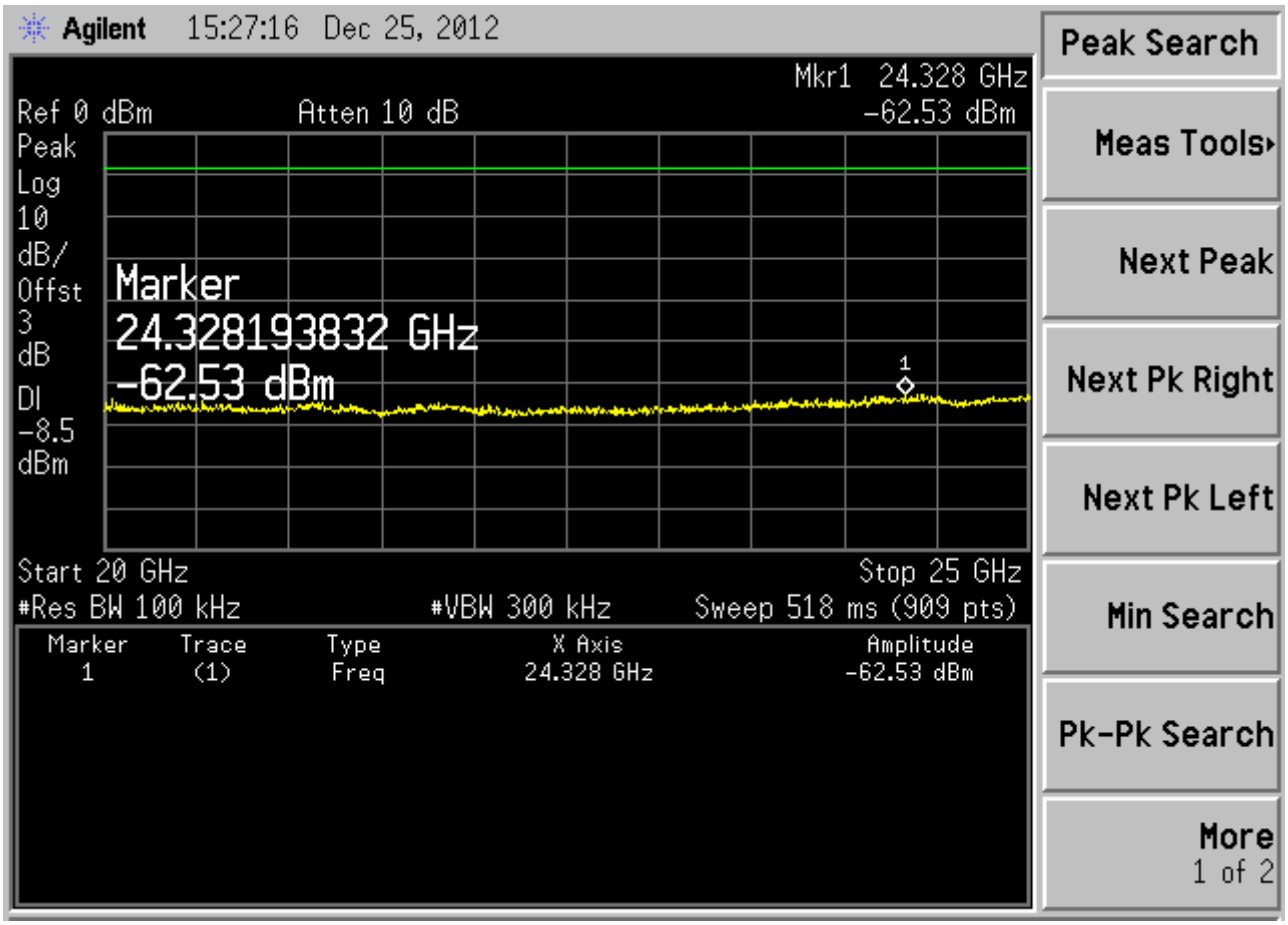


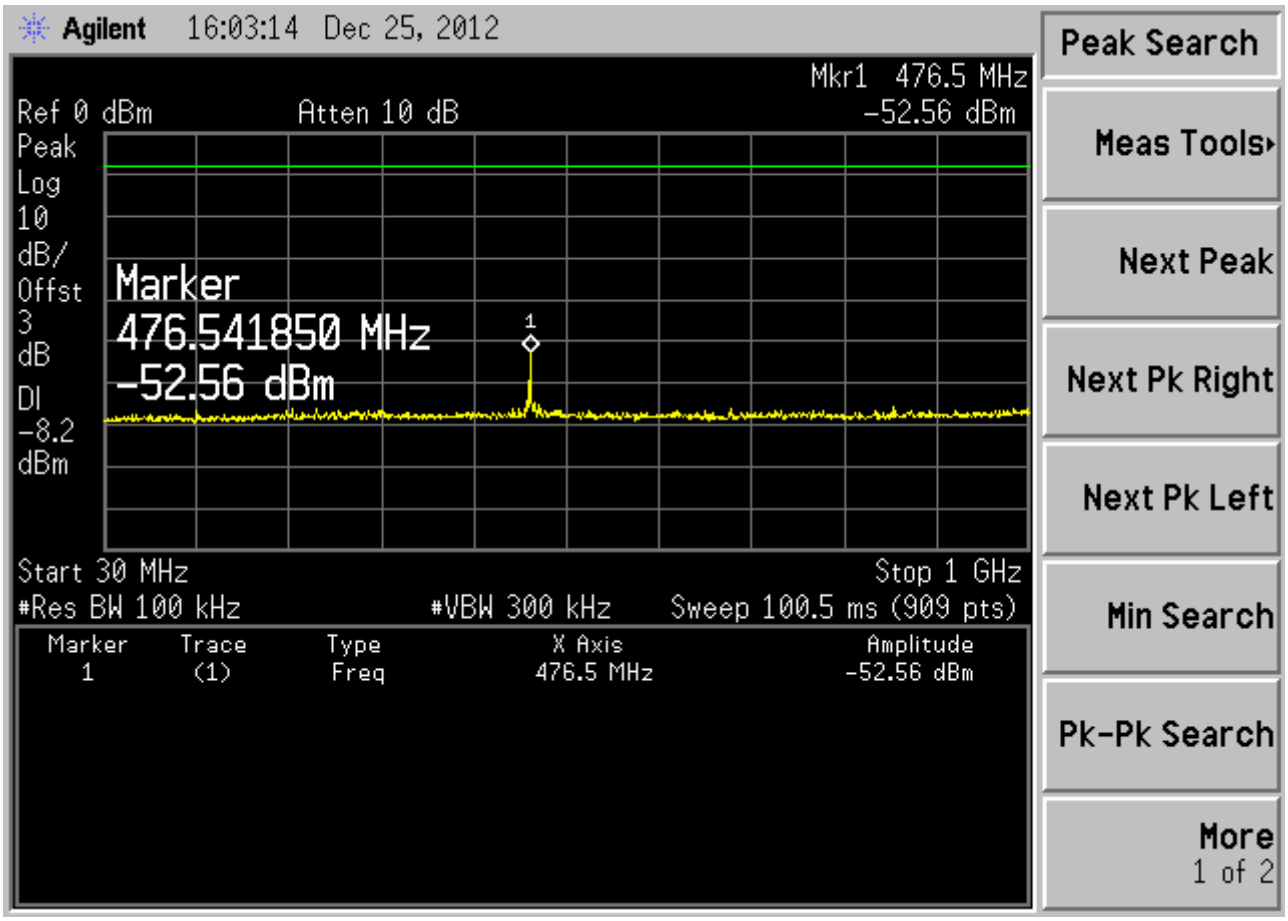

Agilent 15:25:42 Dec 25, 2012
Mkr1 7.236 GHz
Ref 0 dBm
Atten 10 dB
-56.03 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.5
dBm
Marker
7.235682819 GHz
-56.03 dBm
Start 5 GHz
Stop 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.236 GHz -56.03 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

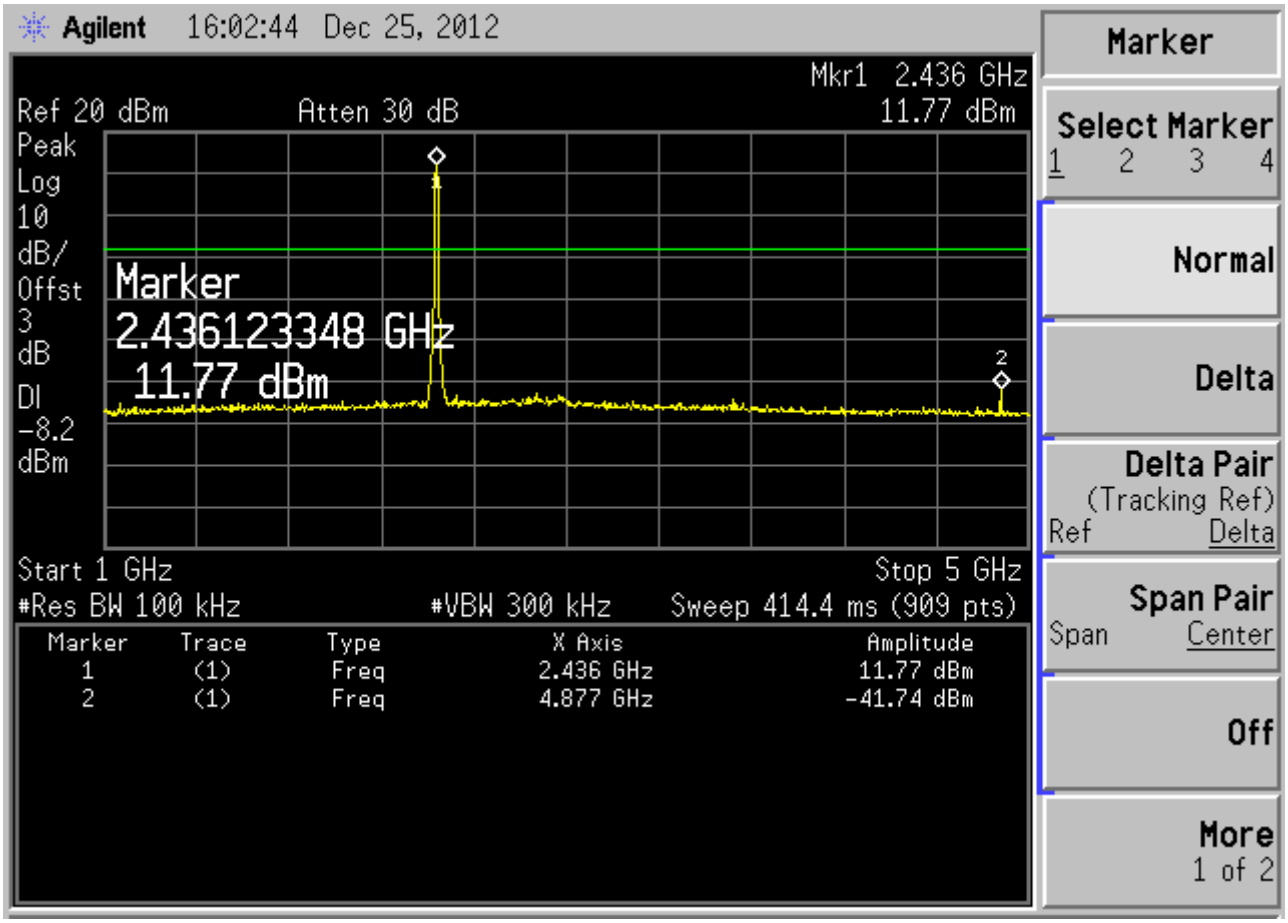

Agilent 15:26:08 Dec 25, 2012
Mkr1 12.010 GHz
Ref 0 dBm
Atten 10 dB
-55.97 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.5
dBm
Marker
12.009911894 GHz
-55.97 dBm
Start 10 GHz
Stop 15 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 12.010 GHz -55.97 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

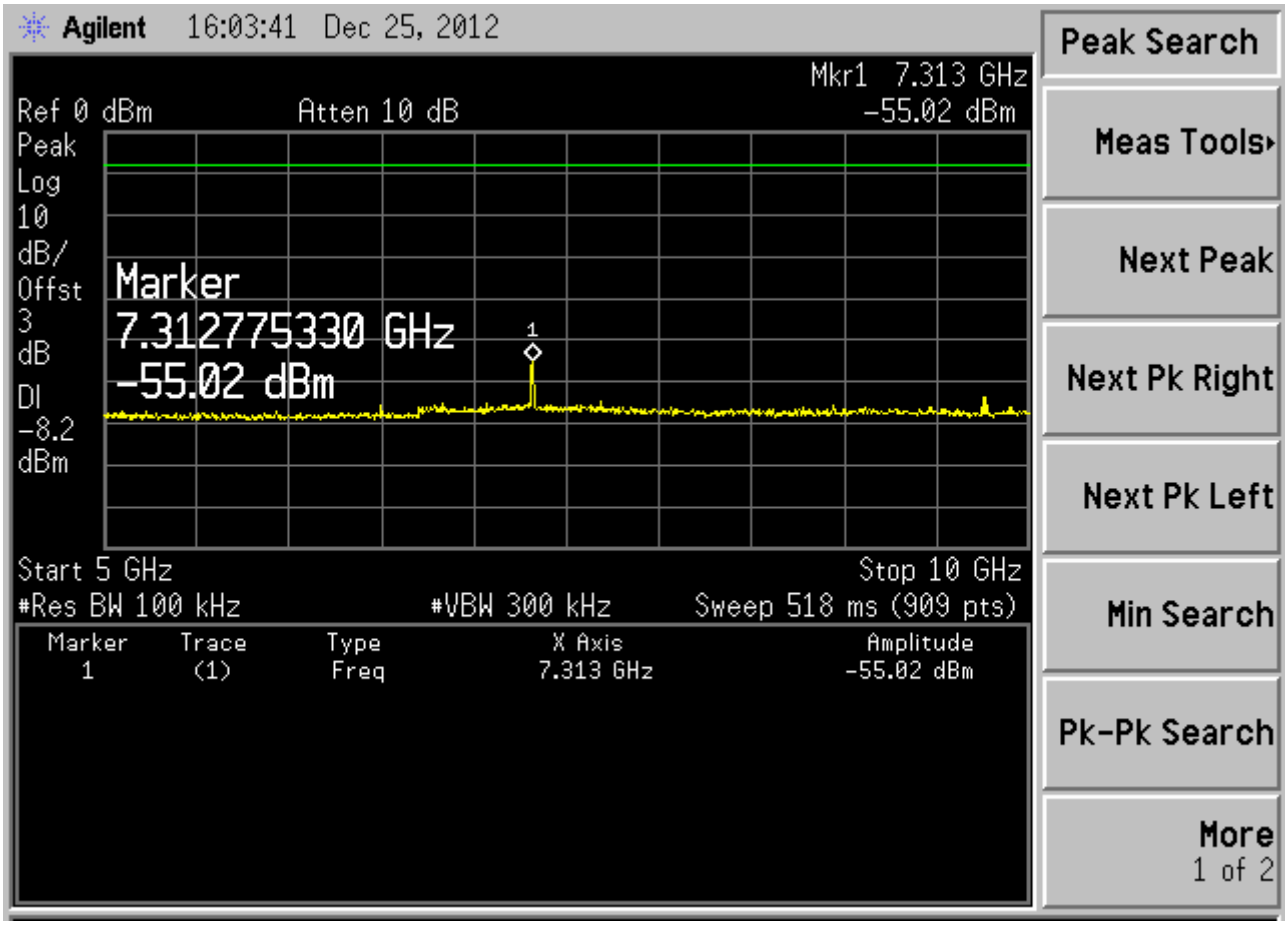

Agilent 15:26:41 Dec 25, 2012
Mkr1 19.295 GHz
Ref 0 dBm
Atten 10 dB
-62.96 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.5
dBm
Marker
19.295154185 GHz
-62.96 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 19.295 GHz -62.96 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

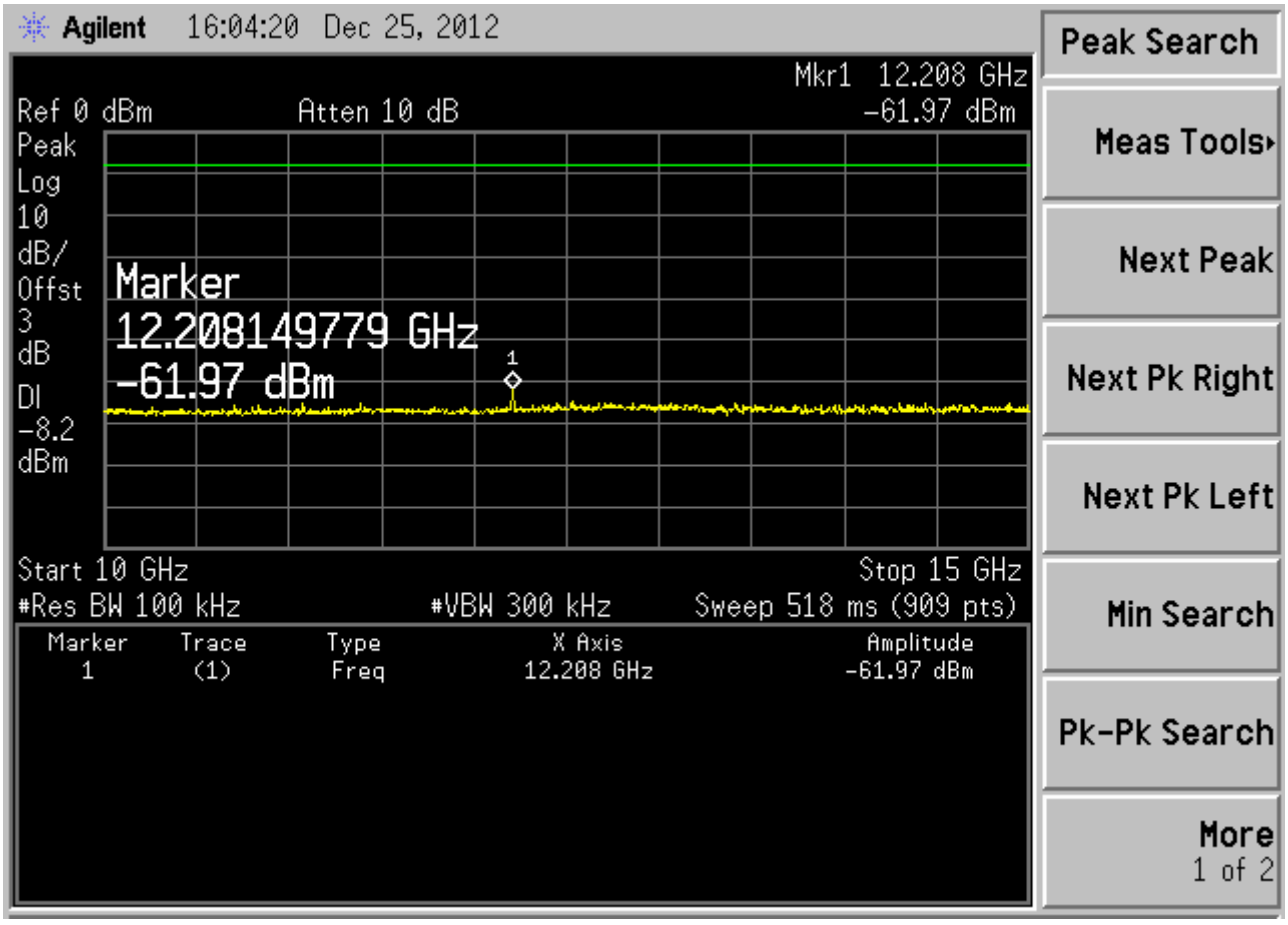

Agilent 15:27:16 Dec 25, 2012
Mkr1 24.328 GHz
Ref 0 dBm
Atten 10 dB
-62.53 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.5
dBm
Marker
24.328193832 GHz
-62.53 dBm
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.328 GHz -62.53 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

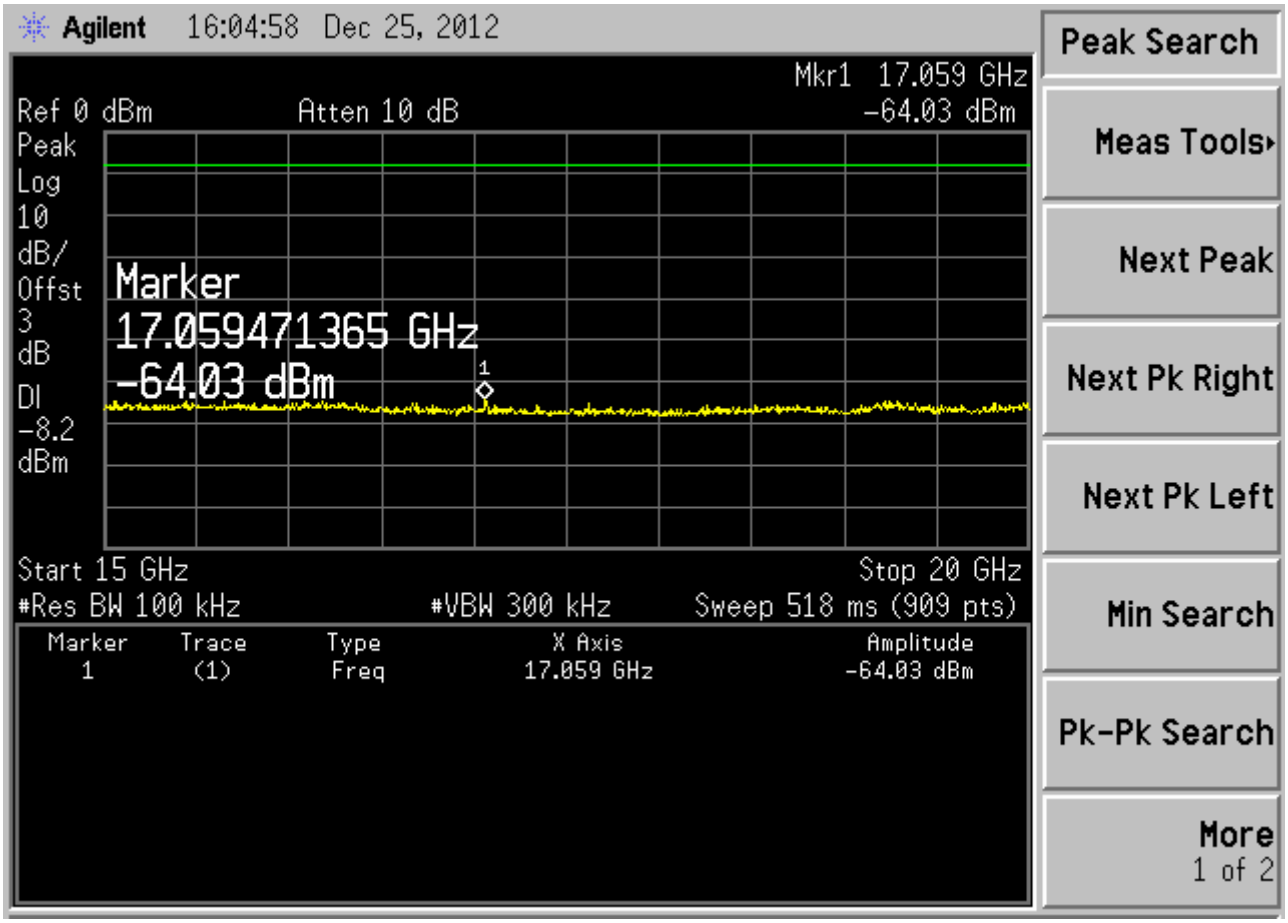
**802.11b Ch 06 (2437 MHz) + BT Ch 39 (2441 MHz)**

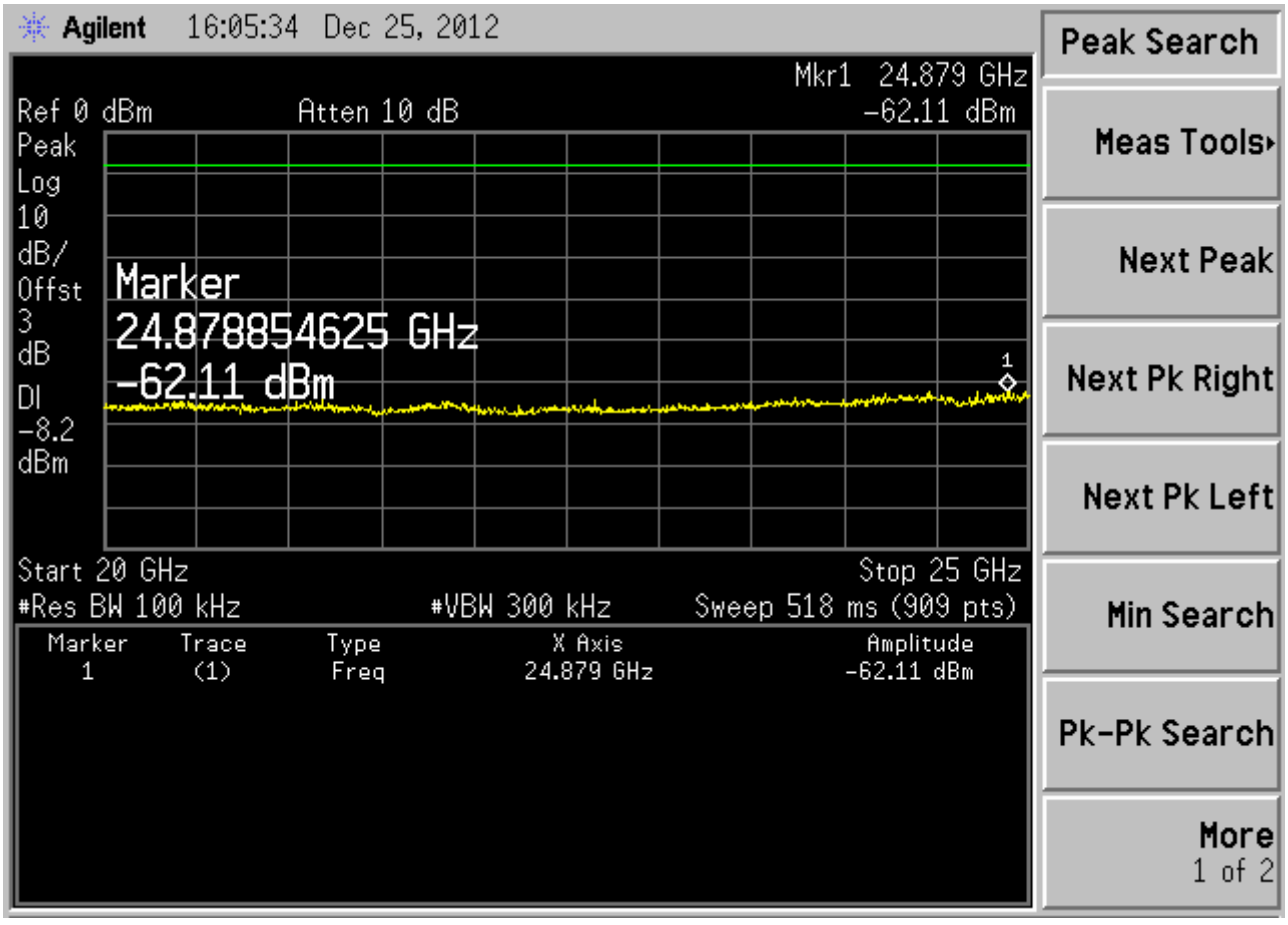


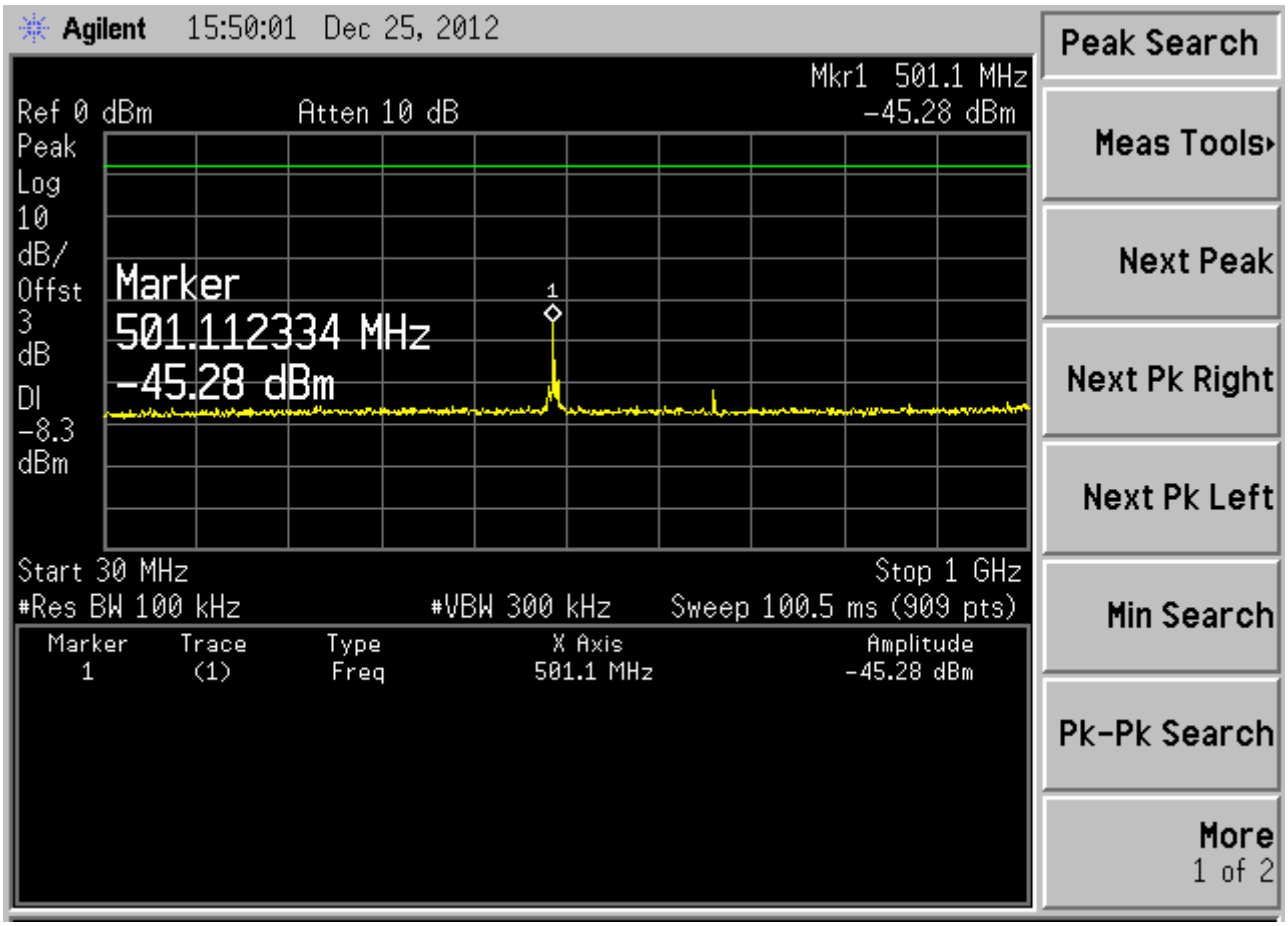

Agilent 16:03:41 Dec 25, 2012
Mkr1 7.313 GHz
Ref 0 dBm
Atten 10 dB
-55.02 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.2
dBm
Marker
7.312775330 GHz
-55.02 dBm
Start 5 GHz
Stop 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.313 GHz -55.02 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

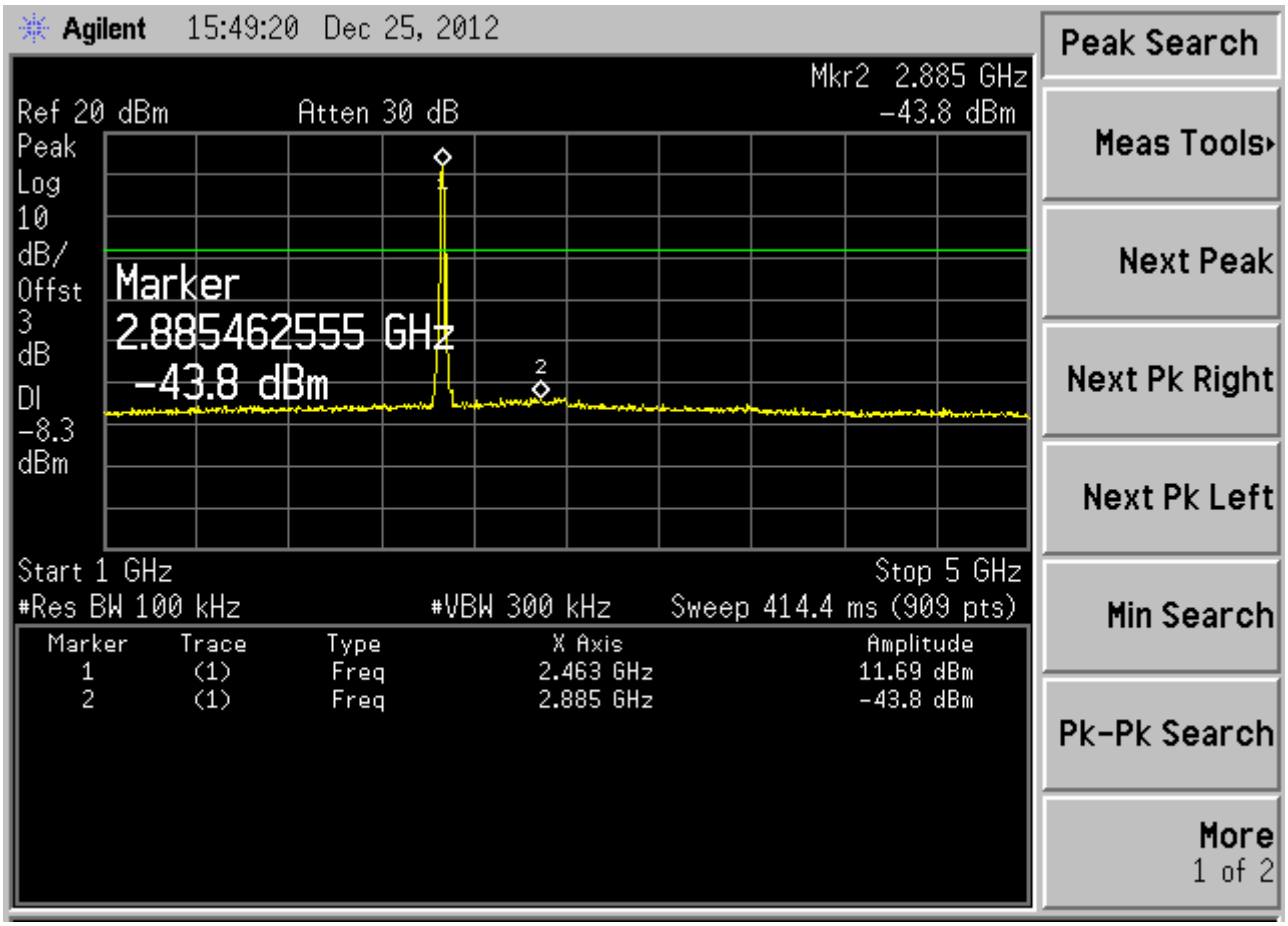

Agilent 16:04:20 Dec 25, 2012
Mkr1 12.208 GHz
Ref 0 dBm
Atten 10 dB
-61.97 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.2
dBm
Marker
12.208149779 GHz
-61.97 dBm
Start 10 GHz
Stop 15 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 12.208 GHz -61.97 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

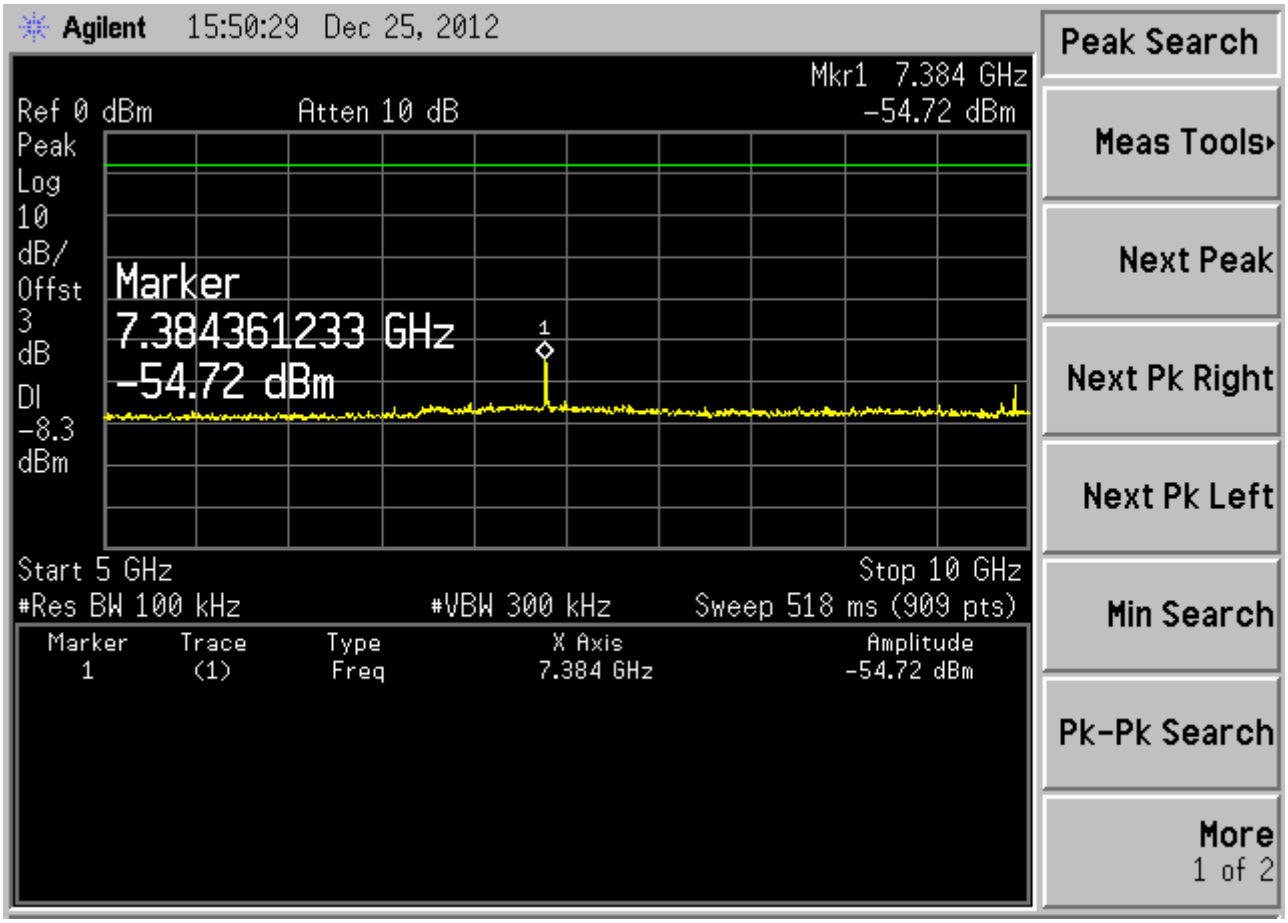

Agilent 16:04:58 Dec 25, 2012
Mkr1 17.059 GHz
Ref 0 dBm
Atten 10 dB
-64.03 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.2
dBm
Marker
17.059471365 GHz
-64.03 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 17.059 GHz -64.03 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

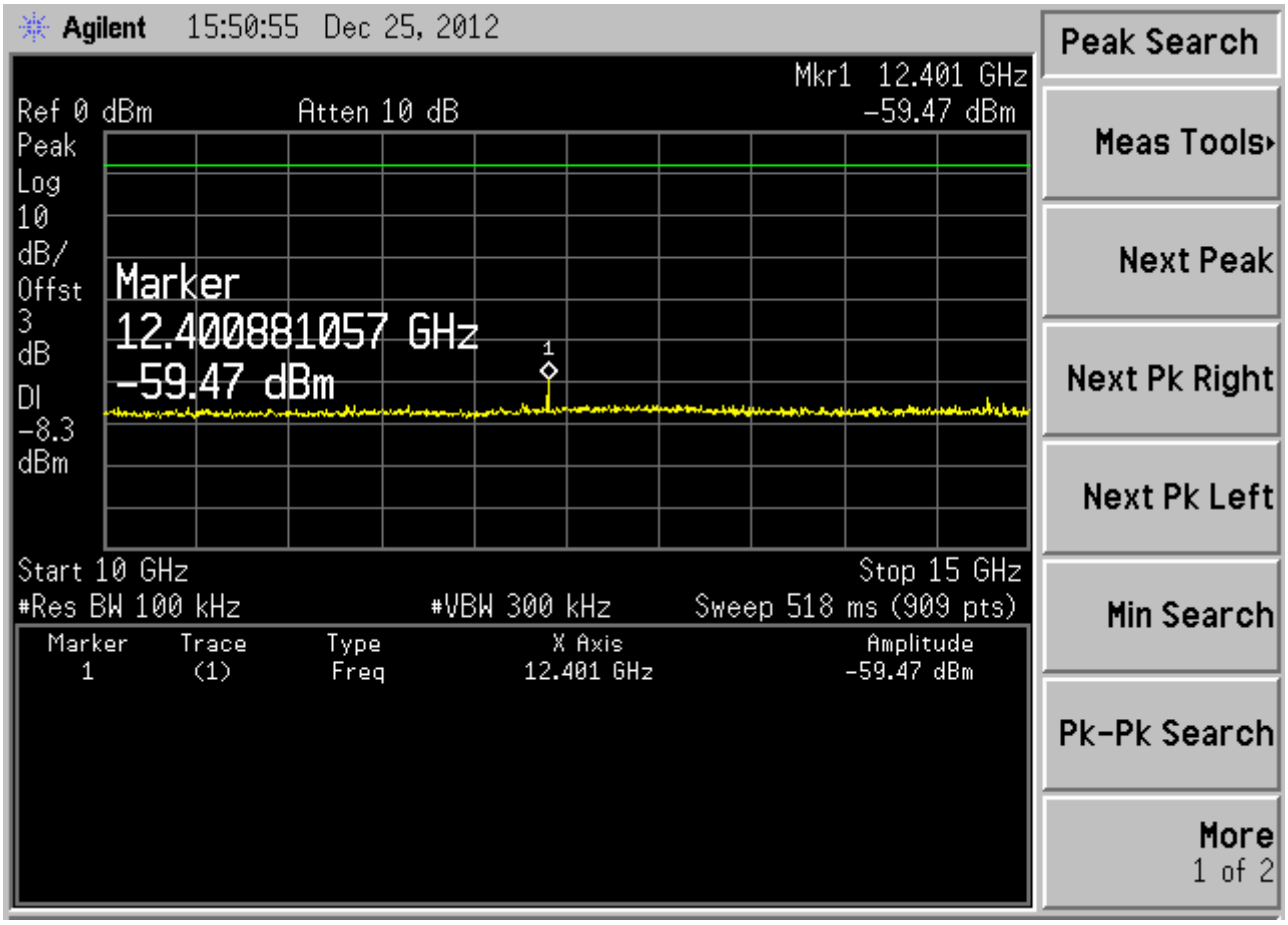

Agilent 16:05:34 Dec 25, 2012
Mkr1 24.879 GHz
Ref 0 dBm
Atten 10 dB
-62.11 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.2
dBm
Marker
24.878854625 GHz
-62.11 dBm
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.879 GHz -62.11 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

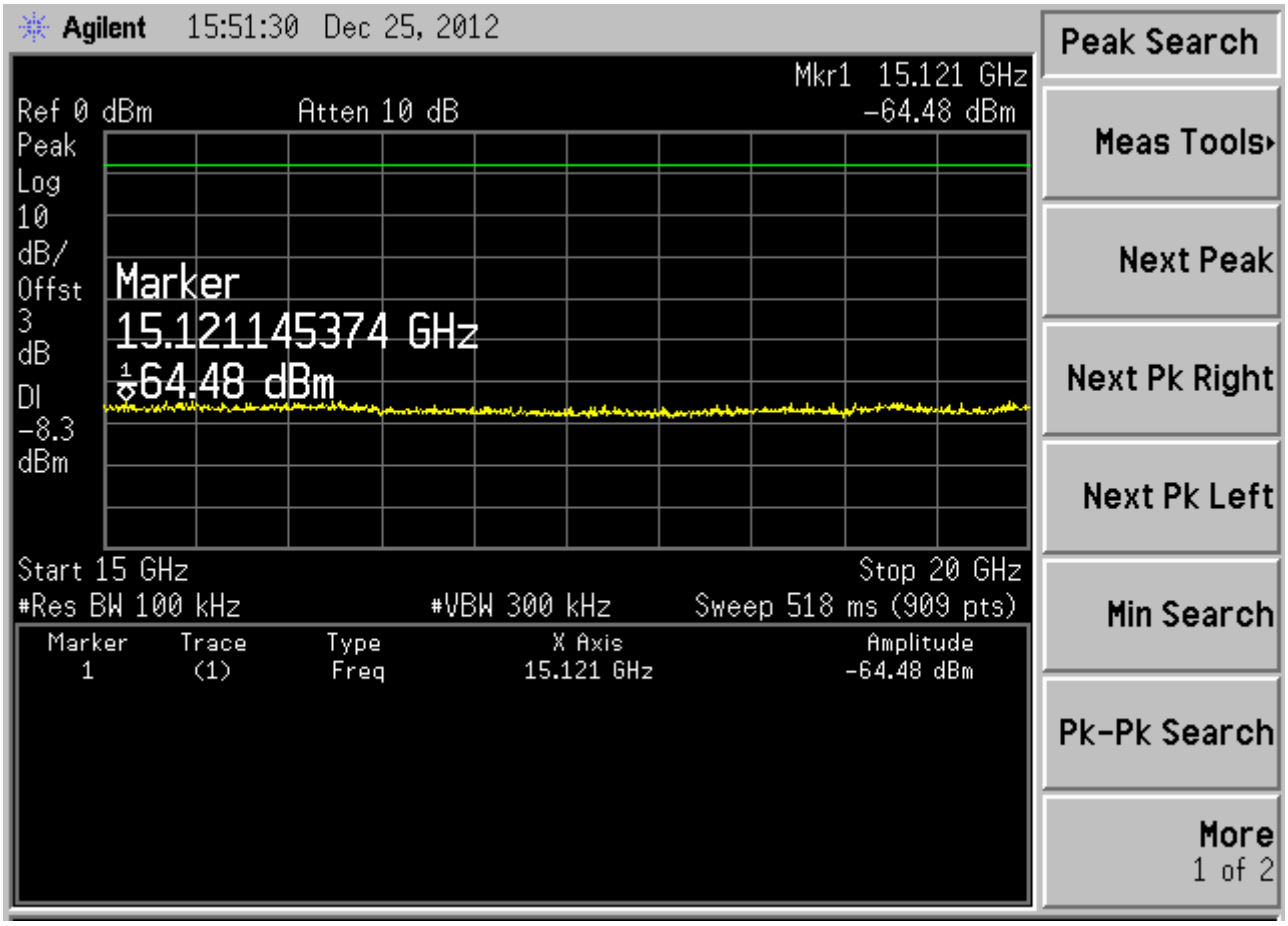
**802.11b Ch 11 (2462 MHz) + BT Ch 78 (2480 MHz)**

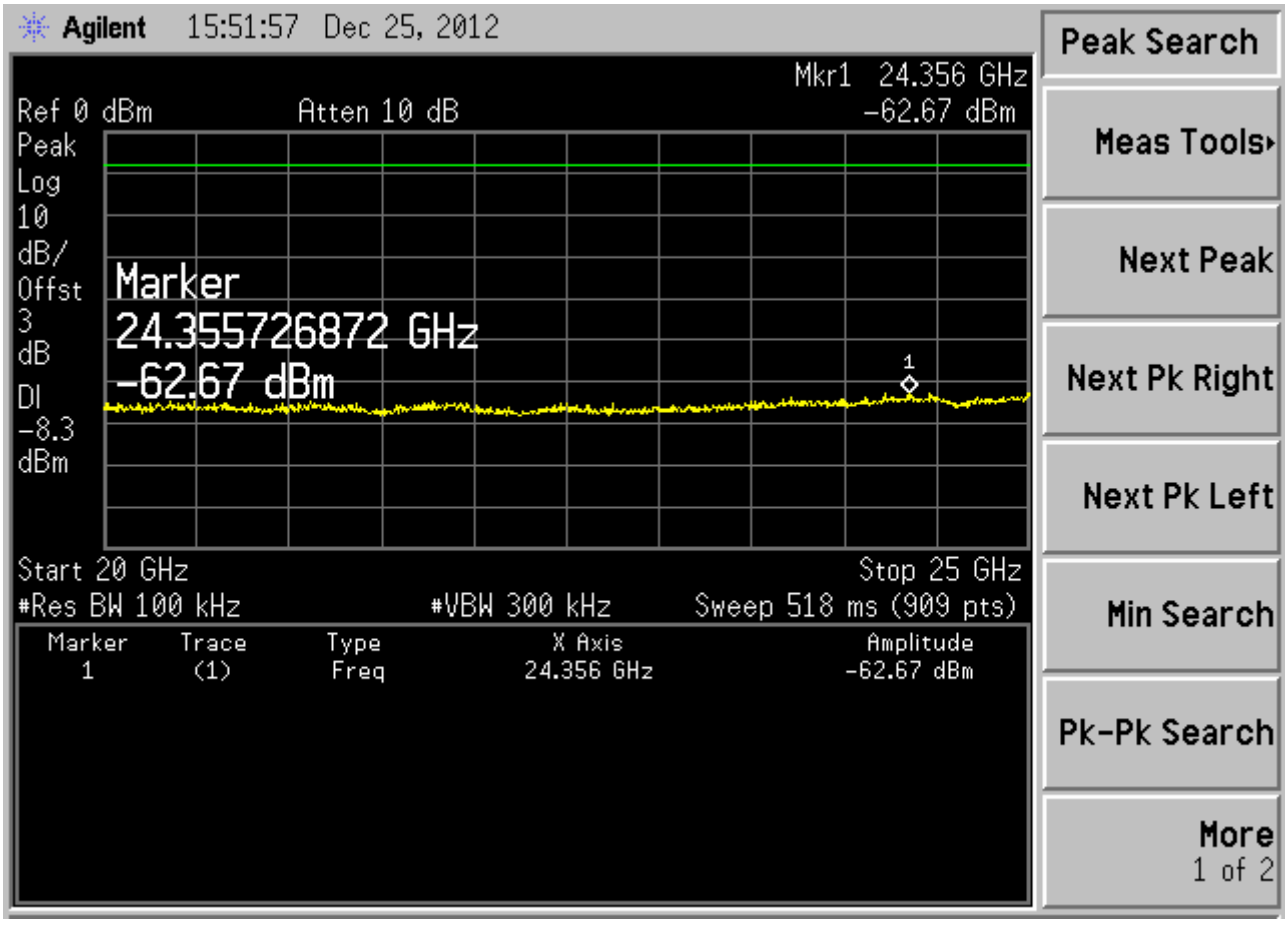



Agilent 15:50:29 Dec 25, 2012
Mkr1 7.384 GHz
Ref 0 dBm
Atten 10 dB
-54.72 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.3
dBm
Marker
7.384361233 GHz
-54.72 dBm
Start 5 GHz
Stop 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.384 GHz -54.72 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2


Agilent 15:50:55 Dec 25, 2012
Mkr1 12.401 GHz
Ref 0 dBm
Atten 10 dB
-59.47 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.3
dBm
Marker
12.400881057 GHz
-59.47 dBm
Start 10 GHz
Stop 15 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 12.401 GHz -59.47 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2


Agilent 15:51:30 Dec 25, 2012
Mkr1 15.121 GHz
Ref 0 dBm
Atten 10 dB
-64.48 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.3
dBm
Marker
15.121145374 GHz
-64.48 dBm
Start 15 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 15.121 GHz -64.48 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2


Agilent 15:51:57 Dec 25, 2012
Mkr1 24.356 GHz
Ref 0 dBm
Atten 10 dB
-62.67 dBm
Peak
Log
10
dB/
Offst
3
dB
Dl
-8.3
dBm
Marker
24.355726872 GHz
-62.67 dBm
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (909 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.356 GHz -62.67 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

# 8 BAND EDGES MEASUREMENT

## 8.1 Test Equipment

The following test equipment was used during the band edges measurement:

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | R&S | ESCI | 101303 | Sep 11, 2012 | Sep 11, 2013 |

## 8.2 Block Diagram of Test Setup

The same as section.5.2.

## 8.3 Specification Limits (§15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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 band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

## 8.4 Operating Condition of EUT

The test program "Hyper-Terminal" was used to enable the EUT to transmit and receive data at different channel frequency individually.

## 8.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz with suitable frequency span including 100kHz bandwidth from band edge.

## 8.6 Test Results

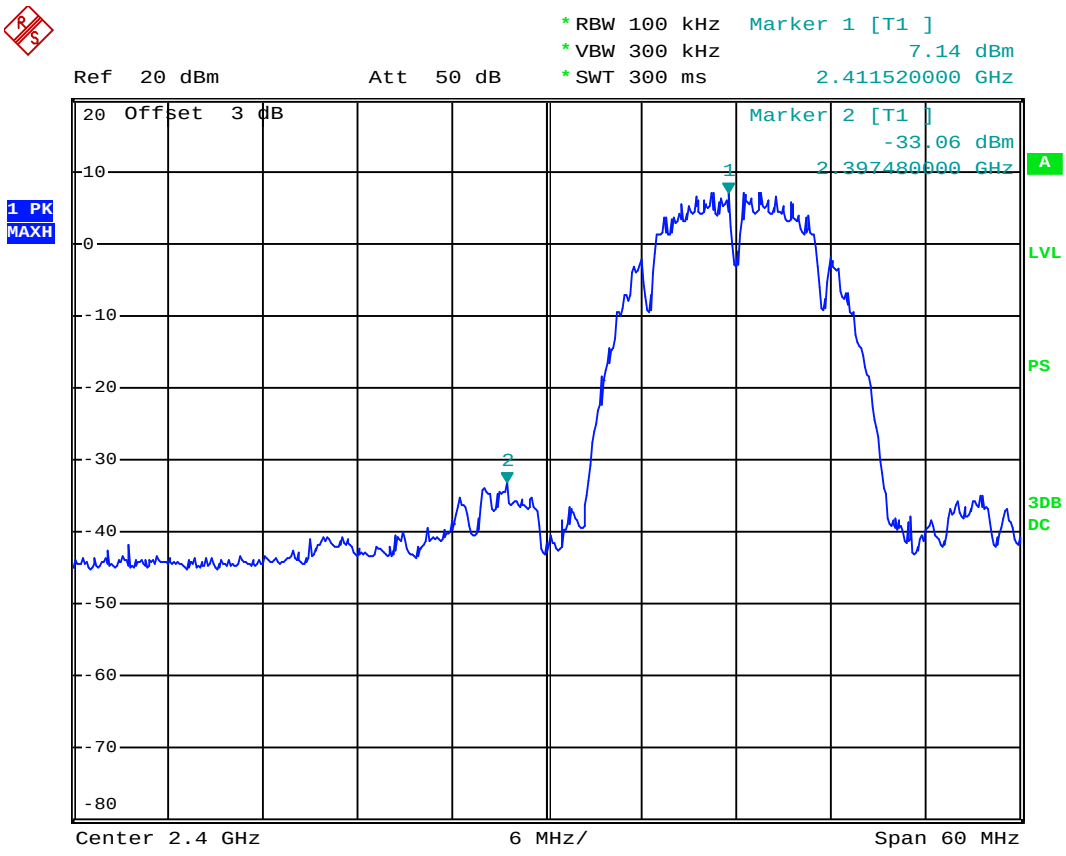
**PASSED**. All the test results are attached in next pages.

(Test Date: Nov. 01, 2012 Temperature: 24℃ Humidity: 46 %)

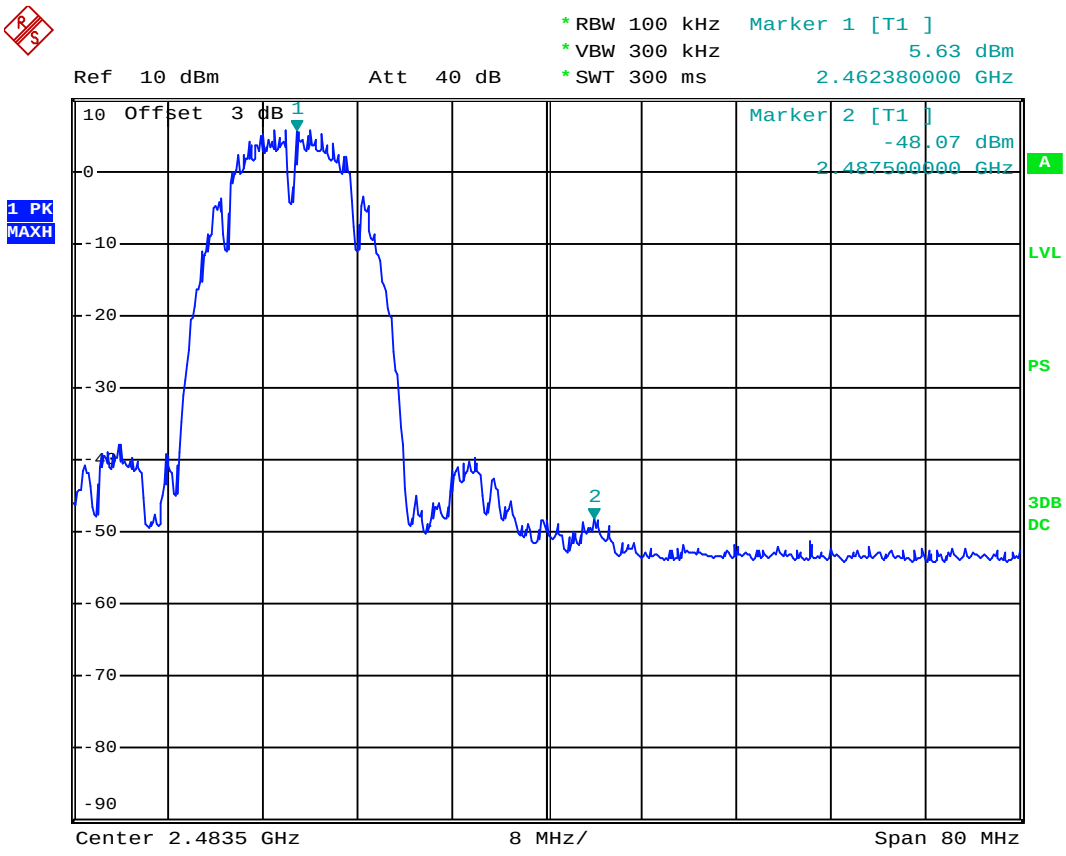
| Modulation | Location | Channel | Frequency | **Delta Marker** | Result |
|---|---|---|---|---|---|
| 802.11b | Below Band Edge | 01 | 2412 MHz | **40.20 dB** | More than **20 dB** below the highest level of the desired power |
| | Upper Band Edge | 11 | 2462 MHz | **53.70 dB** | |
| 802.11g | Below Band Edge | 01 | 2412 MHz | **26.77 dB** | |
| | Upper Band Edge | 11 | 2462 MHz | **38.72 dB** | |
| 802.11n HT20 | Below Band Edge | 01 | 2412 MHz | **34.85 dB** | |
| | Upper Band Edge | 11 | 2462 MHz | **35.61 dB** | |
| 802.11n HT40 | Below Band Edge | 03 | 2412 MHz | **30.53 dB** | |
| | Upper Band Edge | 09 | 2462 MHz | **35.35 dB** | |
| 802.11b + BT | Below Band Edge | 01 | 2412MHz (+ BT 2402MHz) | **31.88 dB** | |
| | Upper Band Edge | 11 | 2462MHz (+ BT 2480MHz) | **40.35 dB** | |
| 802.11g + BT | Below Band Edge | 01 | 2412MHz (+ BT 2402MHz) | **33.04 dB** | |
| | Upper Band Edge | 11 | 2462MHz (+ BT 2480MHz) | **42.82 dB** | |
| 802.11n HT20 + BT | Below Band Edge | 01 | 2412MHz (+ BT 2402MHz) | **32.49 dB** | |
| | Upper Band Edge | 11 | 2462MHz (+ BT 2480MHz) | **39.47 dB** | |

| | | | | | |
|---|---|---|---|---|---|
| 802.11 HT40 + BT | Below Band Edge | 03 | 2422MHz (+ BT 2402MHz) | **30.53 dB** | |
| | Upper Band Edge | 09 | 2452MHz (+ BT 2480MHz) | **30.71 dB** | |

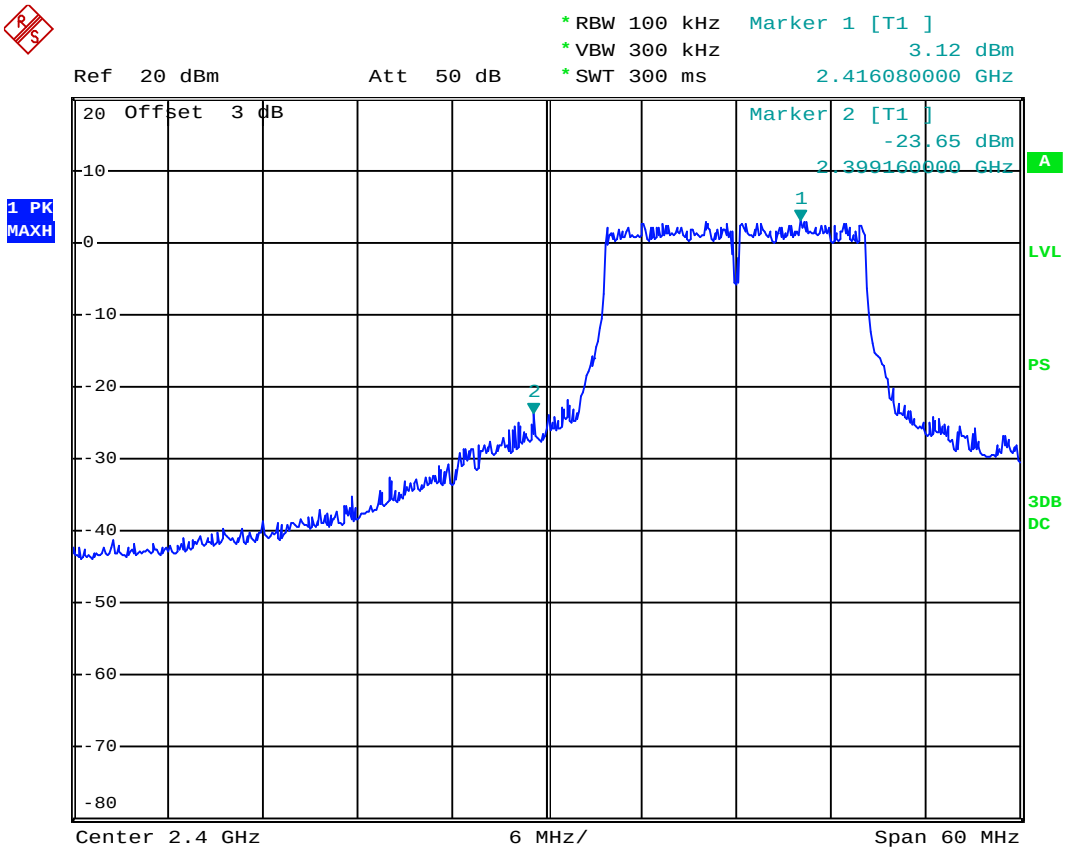
## 802.11b Ch01 2412MHz (Below Edge 2400 MHz)



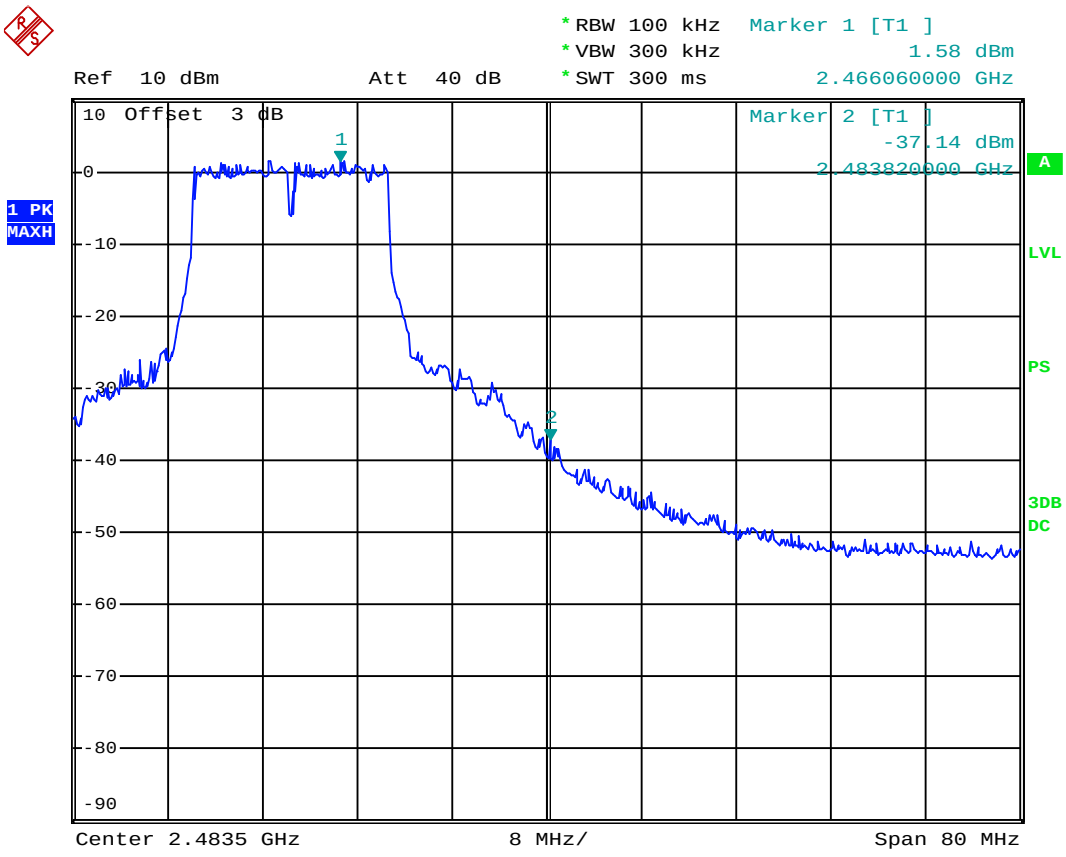

## 802.11b Ch11 2462MHz (Upper Edge 2483.5 MHz)



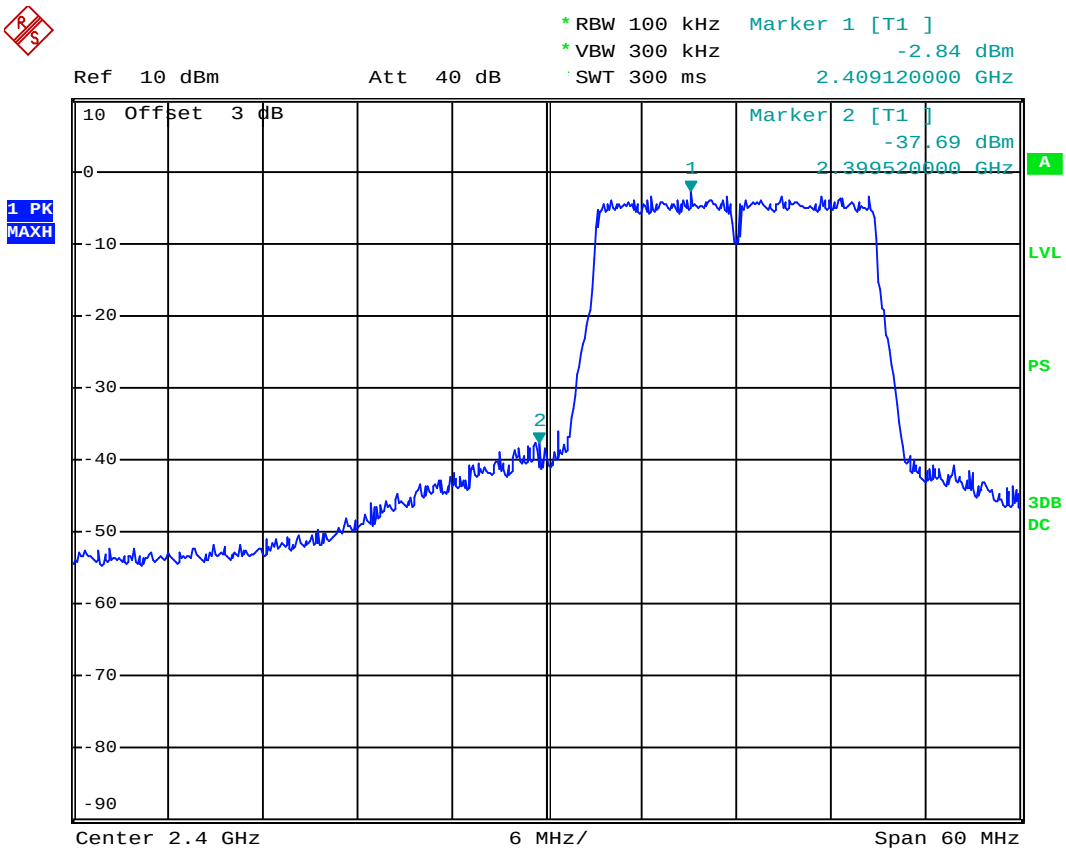
## 802.11g Ch01 2412MHz (Below Edge 2400 MHz)



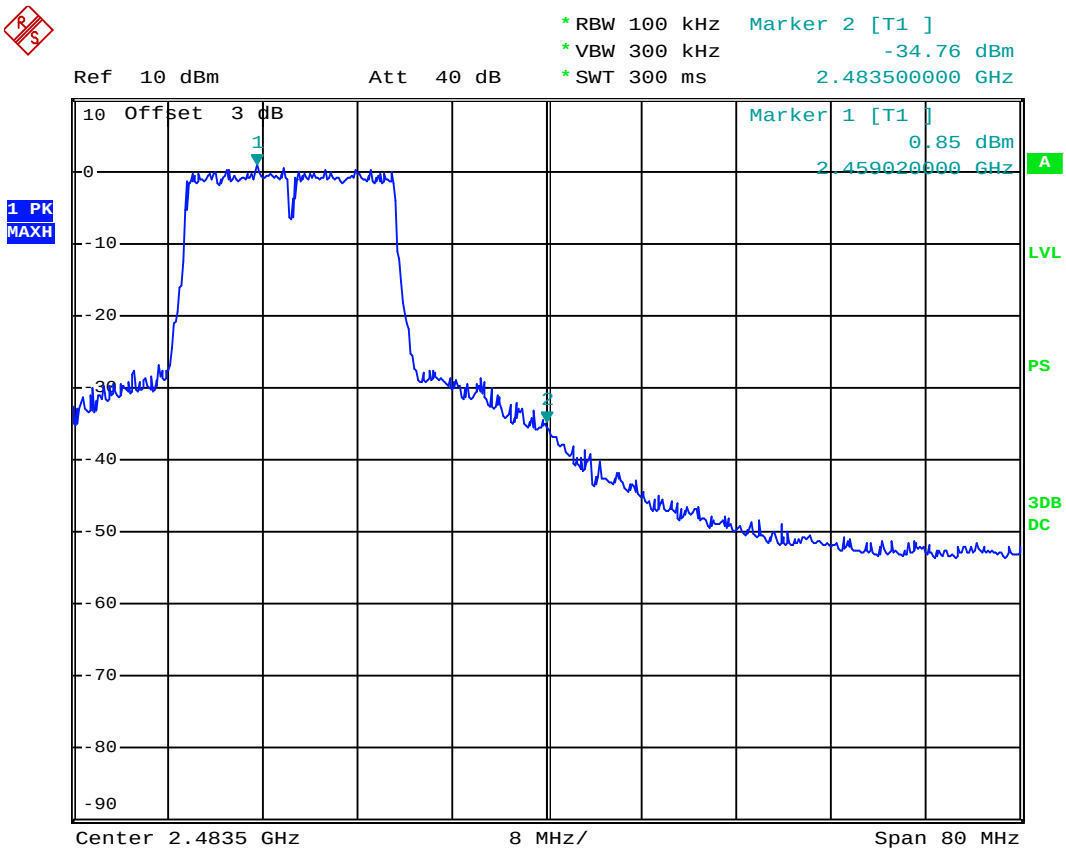

## 802.11g Ch11 2462MHz (Upper Edge 2483.5 MHz)



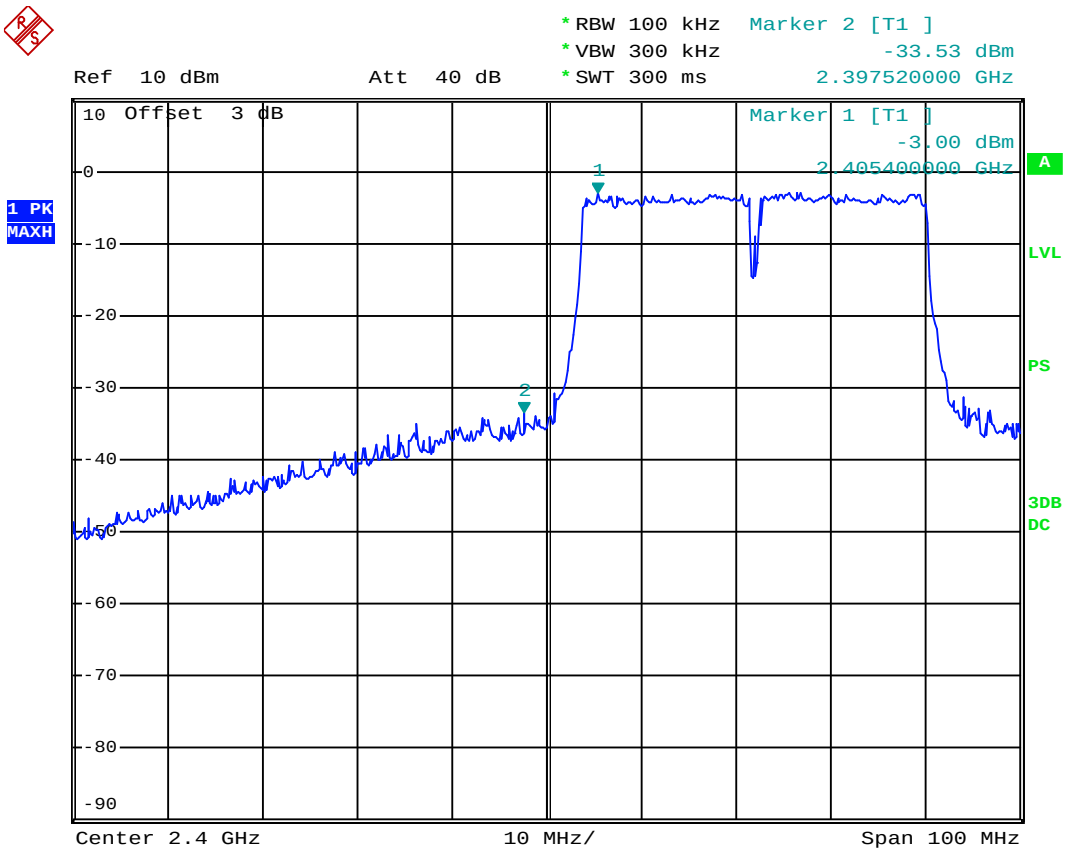
## 802.11n HT20 Ch01 2412MHz (Below Edge 2400 MHz)



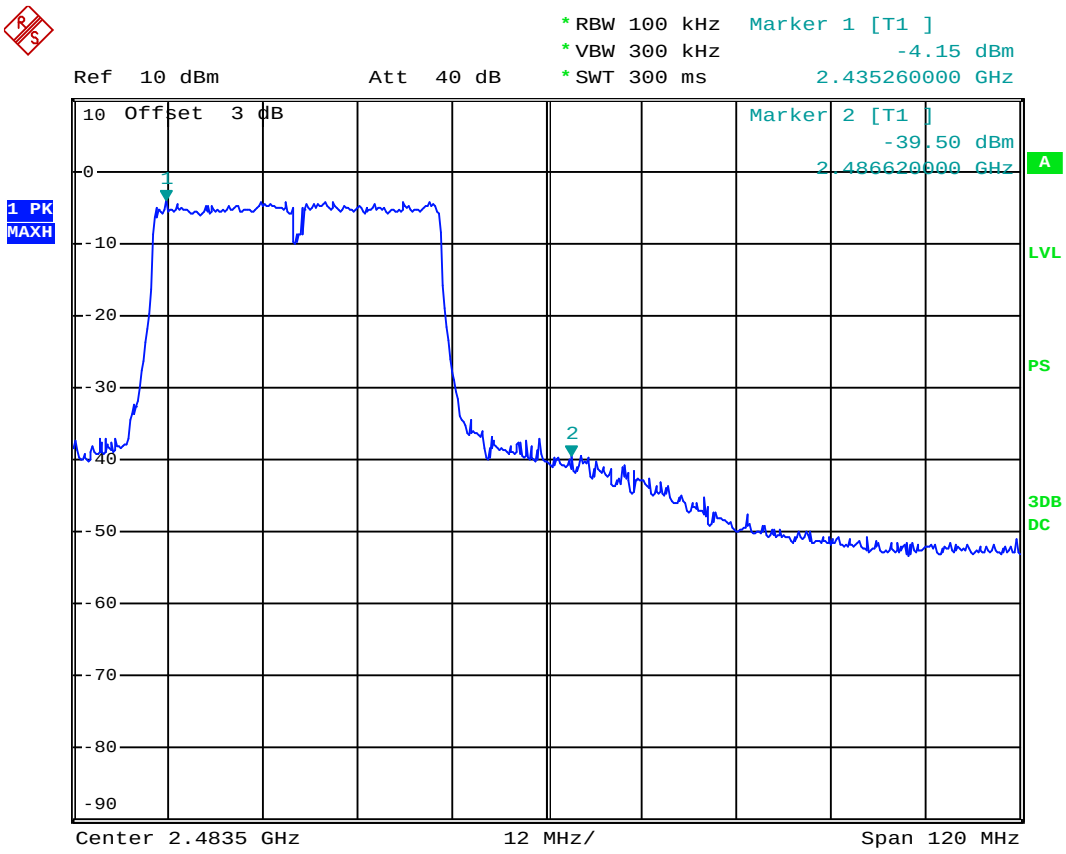

## 802.11n HT20 Ch11 2462MHz (Upper Edge 2483.5 MHz)



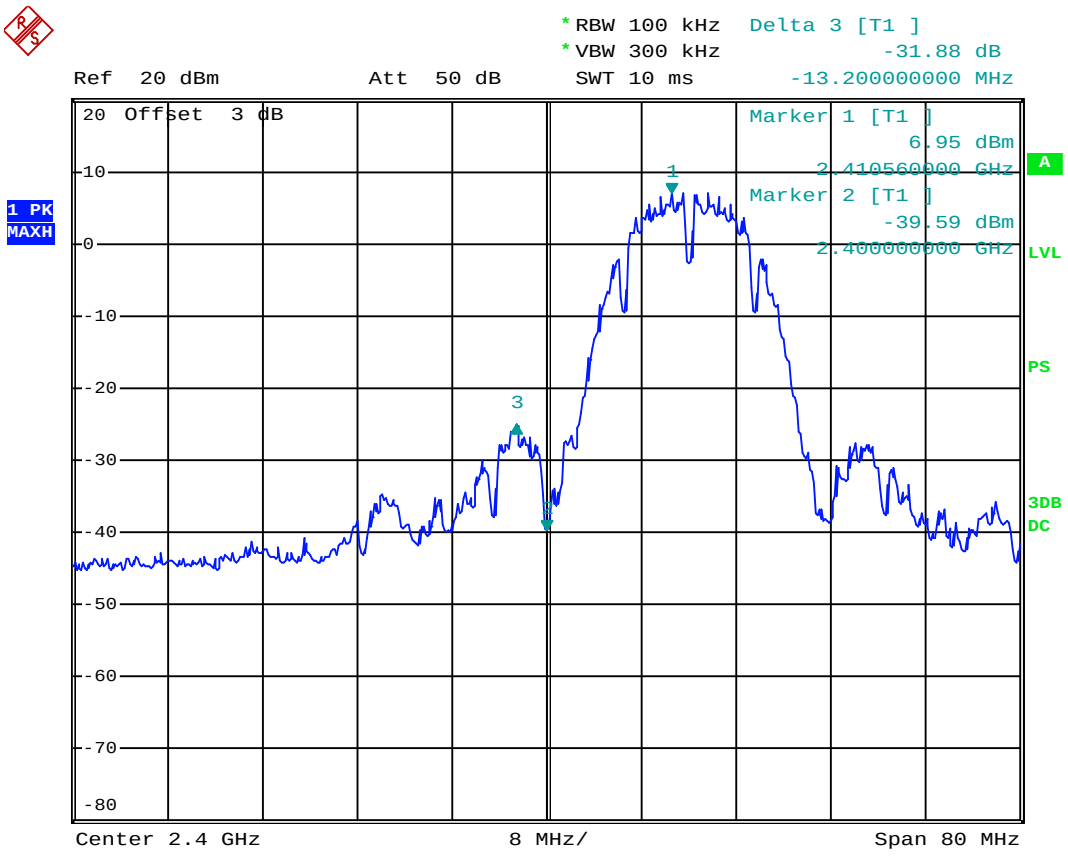
## 802.11n HT40 Ch03 2422MHz (Below Edge 2400 MHz)



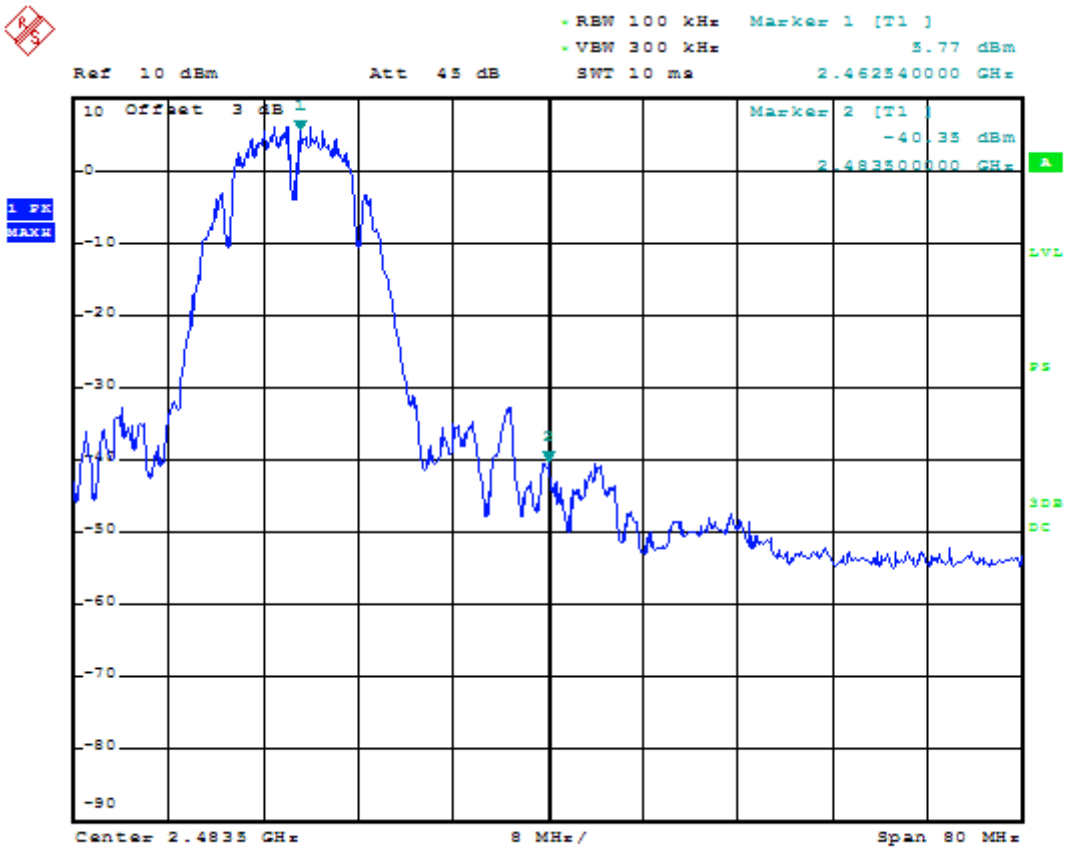

## 802.11n HT40 Ch09 2452MHz (Upper Edge 2483.5 MHz)



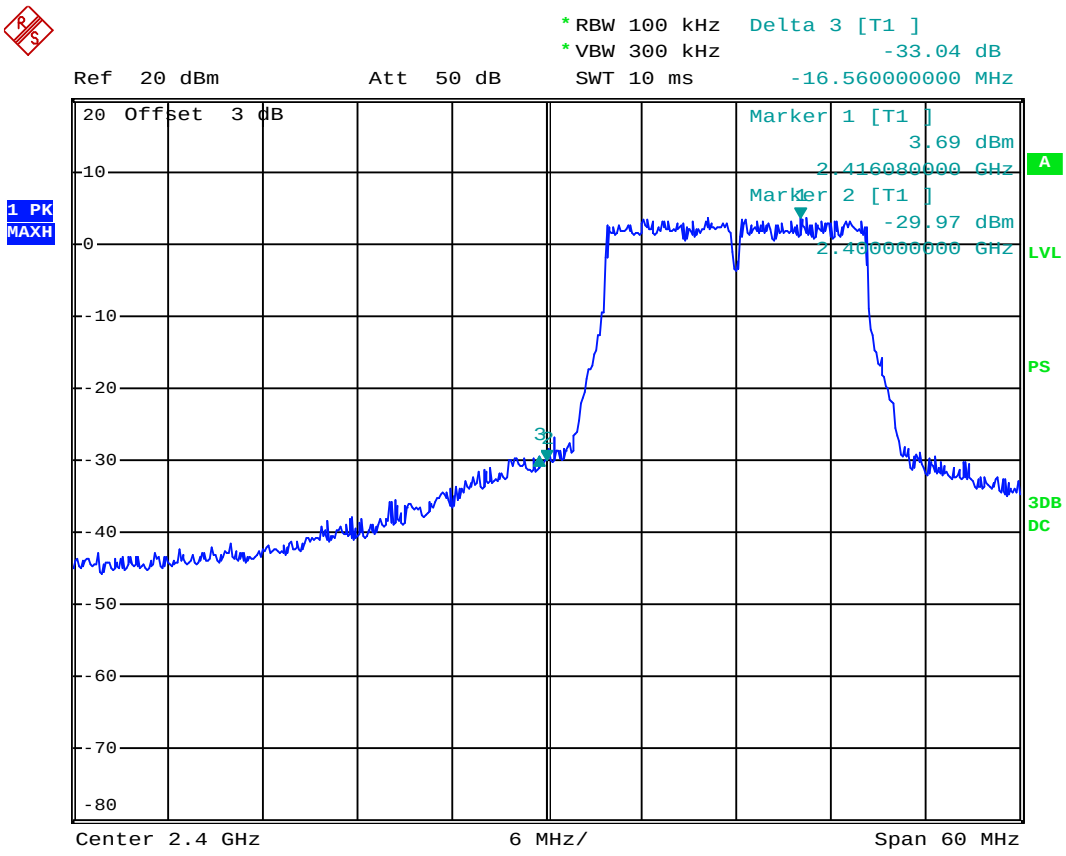
## 802.11b Ch01 2412MHz + BT Ch00 2402 MHz (Below Edge 2400 MHz)



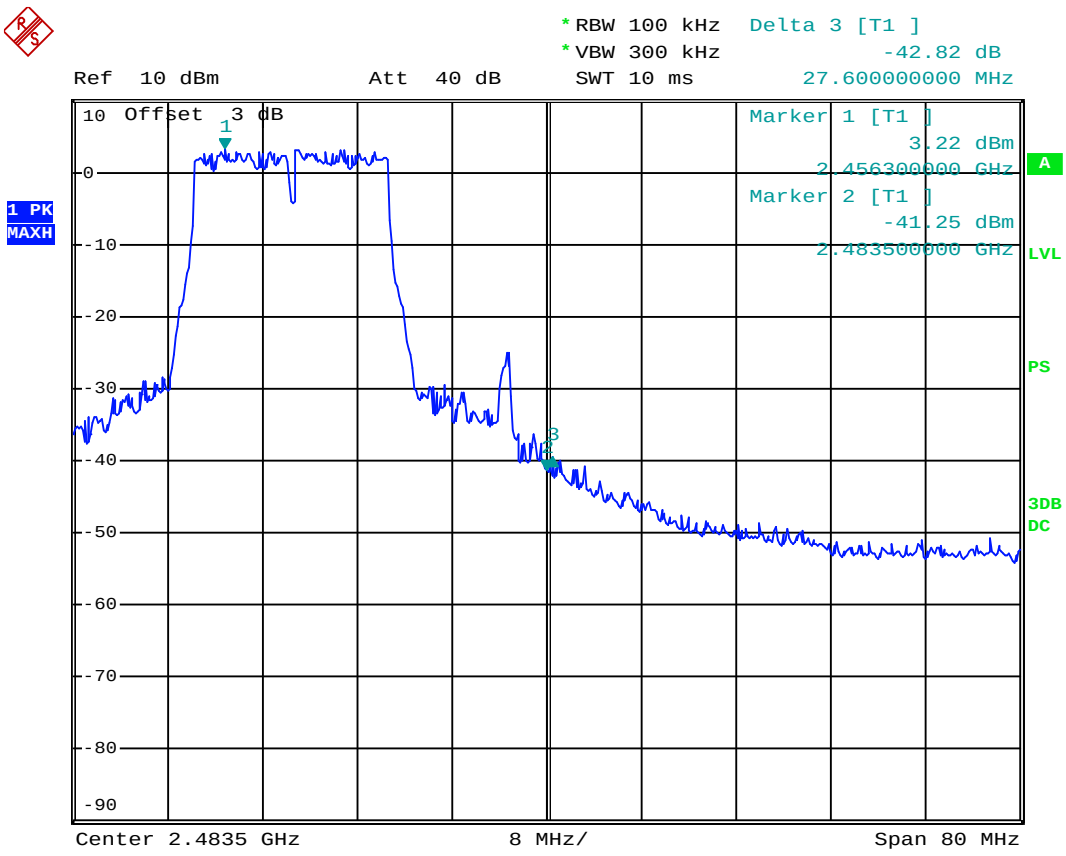

## 802.11b Ch11 2462MHz + BT Ch78 2480 MHz (Upper Edge 2483.5 MHz)



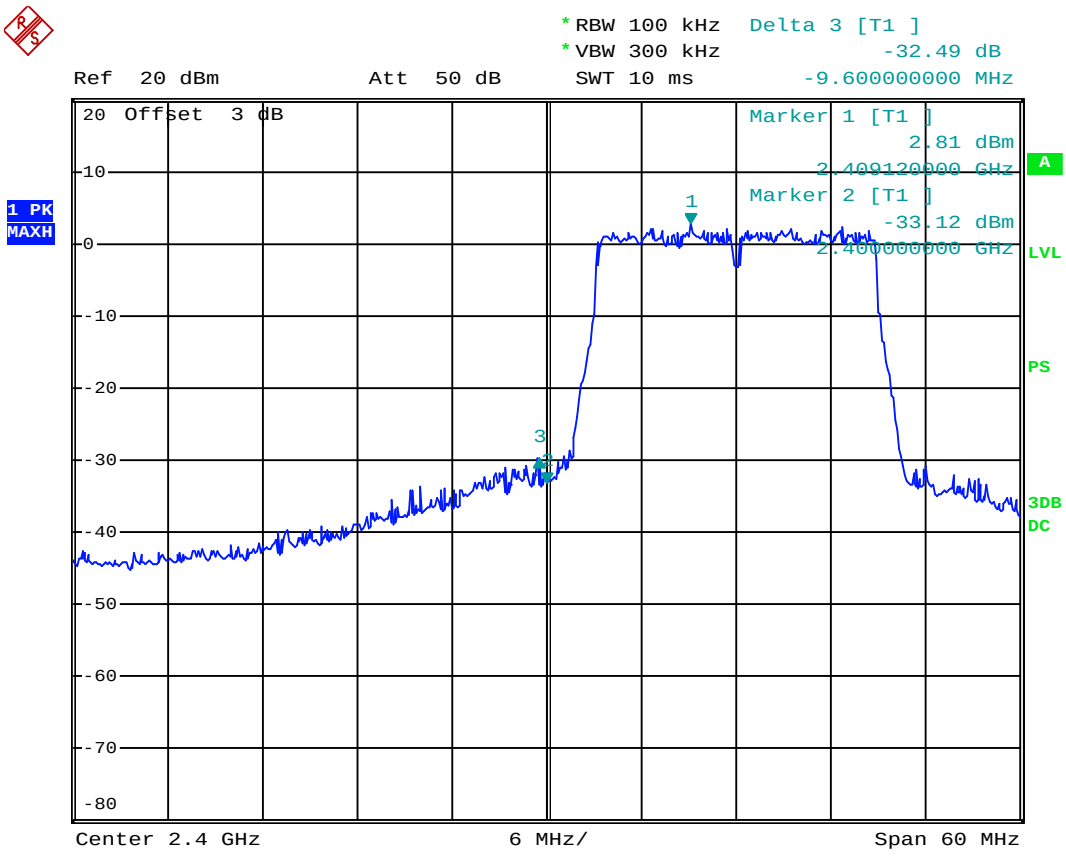
## 802.11g Ch01 2412MHz + BT Ch00 2402 MHz (Below Edge 2400 MHz)



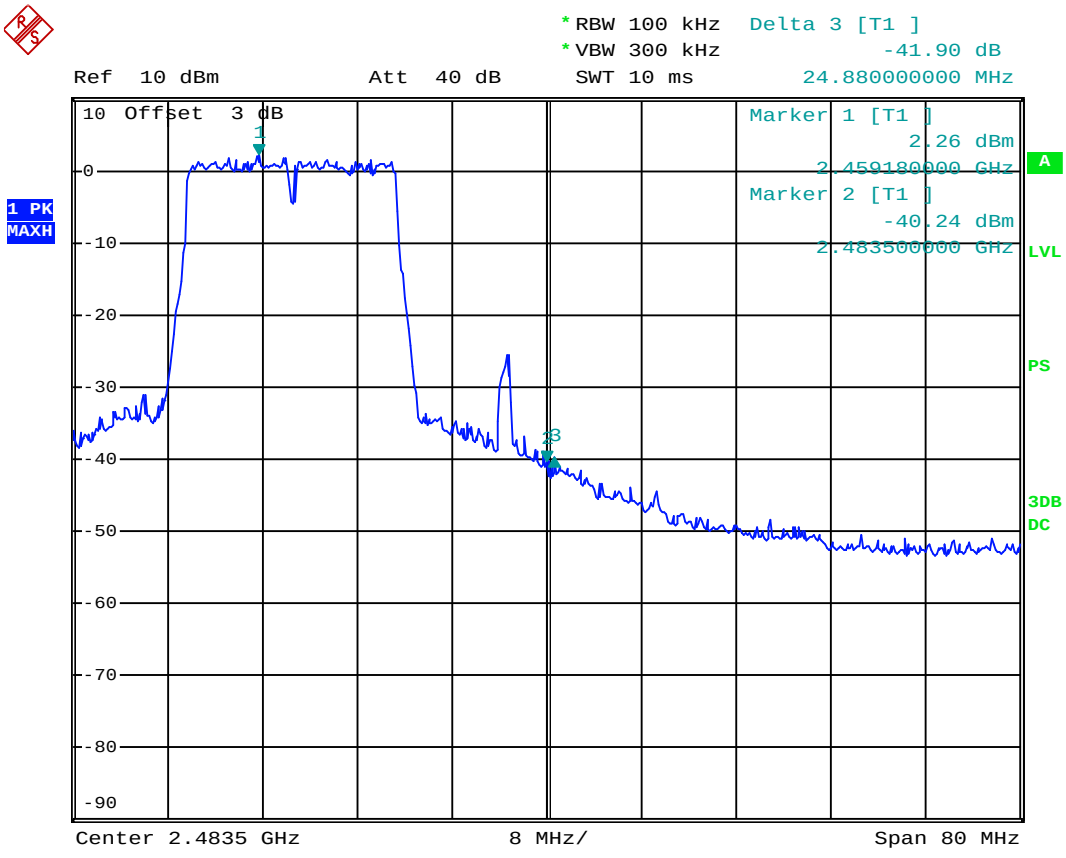

## 802.11g Ch11 2462MHz + BT Ch78 2480 MHz (Upper Edge 2483.5 MHz)



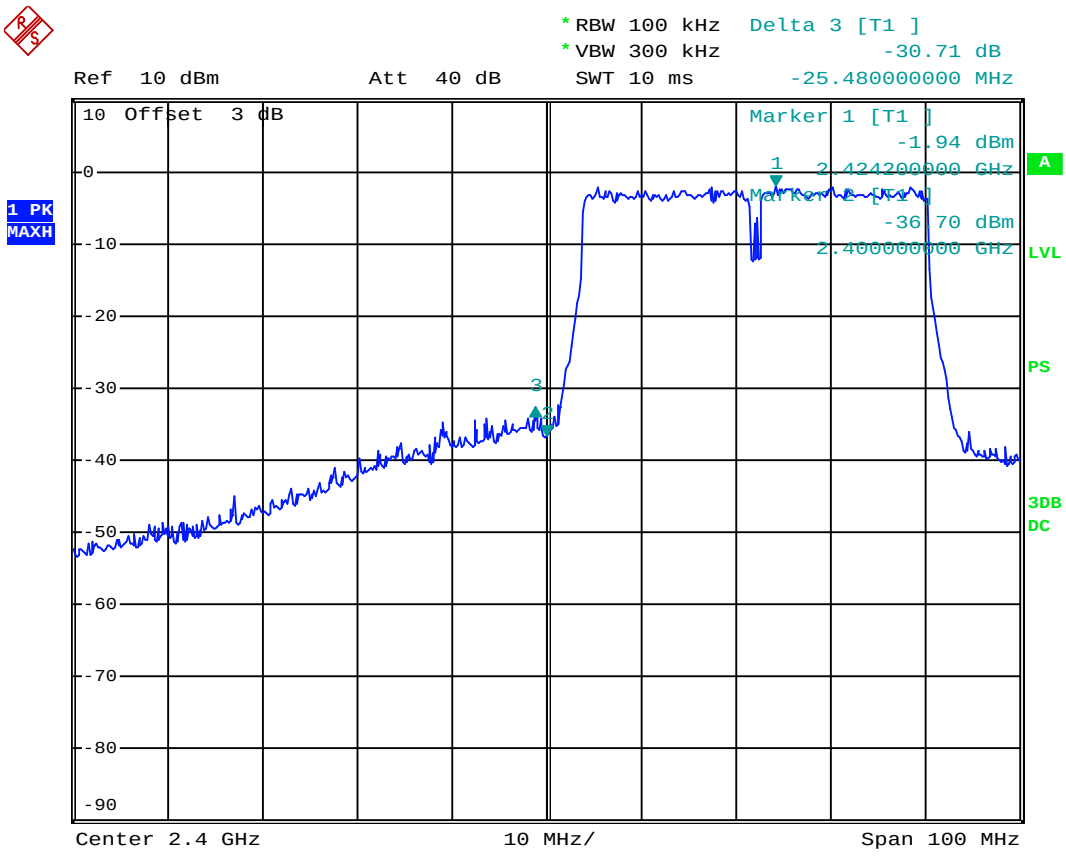
## 802.11n HT20 Ch01 2412MHz + BT Ch00 2402 MHz (Below Edge 2400 MHz)



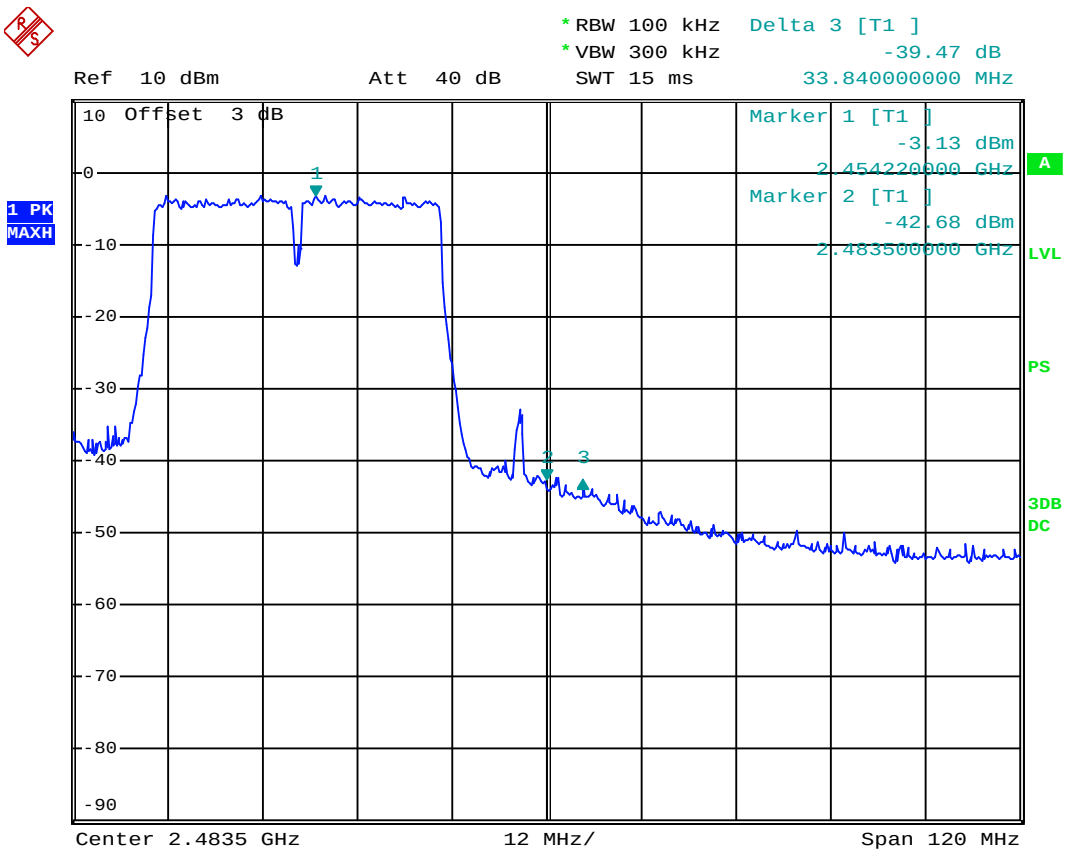

## 802.11n HT20 Ch11 2462MHz + BT Ch78 2480 MHz (Upper Edge 2483.5 MHz)



## 802.11n HT40 Ch03 2422MHz + BT Ch00 2402 MHz (Below Edge 2400 MHz)




## 802.11n HT40 Ch09 2452MHz + BT Ch78 2480 MHz (Upper Edge 2483.5 MHz)



# 9 POWER SPECTRAL DENSITY MEASUREMENT

## 9.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | R&S | ESCI | 101303 | Sep 11, 2012 | Sep 11, 2013 |

## 9.2 Block Diagram of Test Setup

The same as section.5.2.

## 9.3 Specification Limits (§15.247(e))

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band.

## 9.4 Operating Condition of EUT

The test program "Hyper-Terminal" was used to enable the EUT to transmit data at different channel frequency individually.

## 9.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. The spectrum analyzer was set as RBW ≥ 3kHz, VBW ≥ 3 x RBW, span = 1.5 times the DTS channel bandwidth.
The test procedure is defined in KDB558074 v02:2012 (the 9.1 Measurement Procedure "Option 1" was used).

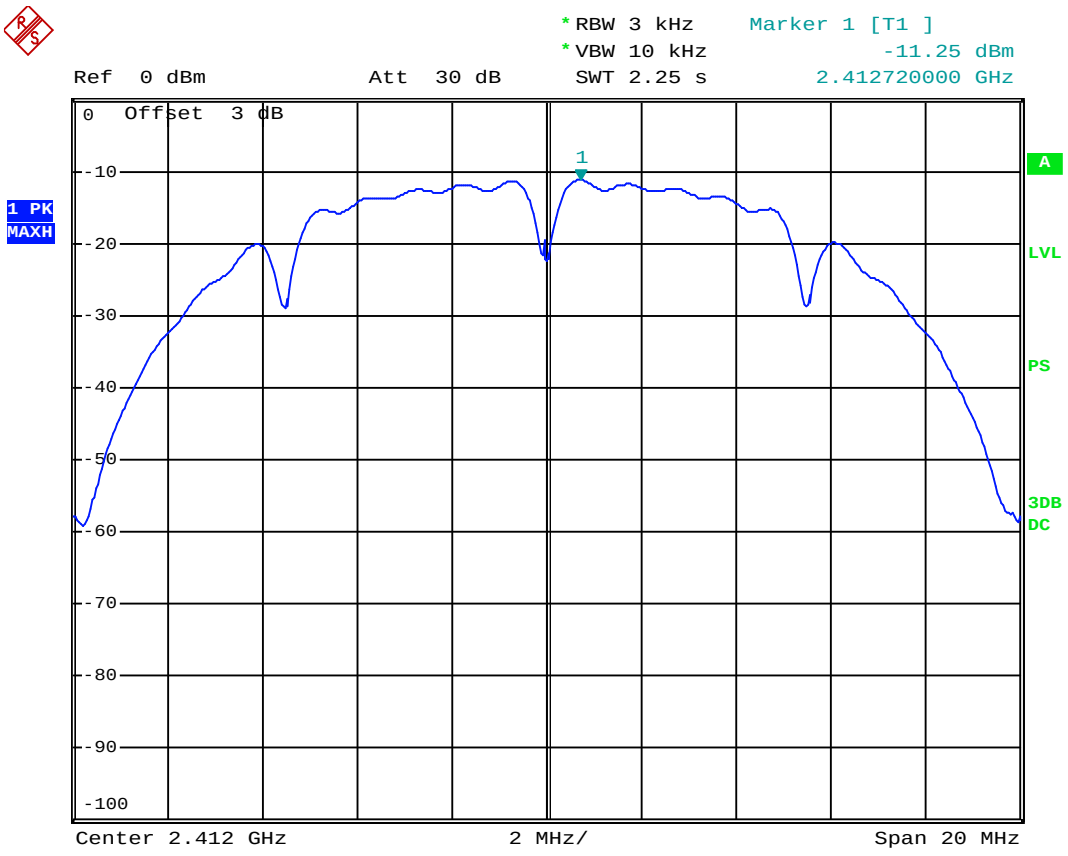
## 9.6 Test Results

**PASSED**. All the test results are attached in next pages.

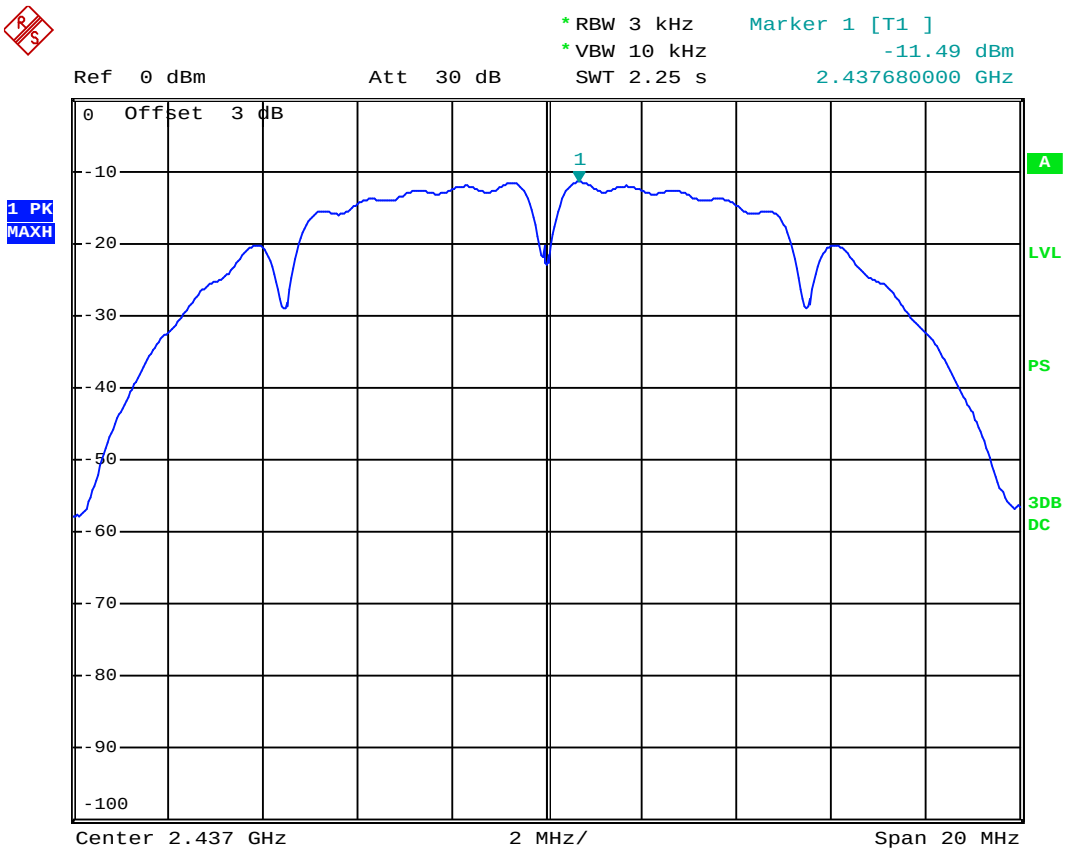
(Test Date: Nov. 01, 2012 Temperature: 24℃ Humidity: 46 %)

| Modulation | Channel | Frequency | Power Spectral Density | Limit |
|---|---|---|---|---|
| 802.11b | 01 | 2412 MHz | -11.25 dBm | 8dBm |
| | 06 | 2437 MHz | -11.49 dBm | 8dBm |
| | 11 | 2462 MHz | -13.00 dBm | 8dBm |
| 802.11g | 01 | 2412 MHz | -10.55 dBm | 8dBm |
| | 06 | 2437 MHz | -11.28 dBm | 8dBm |
| | 11 | 2462 MHz | -11.10 dBm | 8dBm |
| 802.11n HT20 | 01 | 2412 MHz | -11.92 dBm | 8dBm |
| | 06 | 2437 MHz | -12.13 dBm | 8dBm |
| | 11 | 2462 MHz | -12.01 dBm | 8dBm |
| 802.11n HT40 | 03 | 2422 MHz | -14.70 dBm | 8dBm |
| | 06 | 2437 MHz | -15.36 dBm | 8dBm |
| | 09 | 2452 MHz | -14.86 dBm | 8dBm |

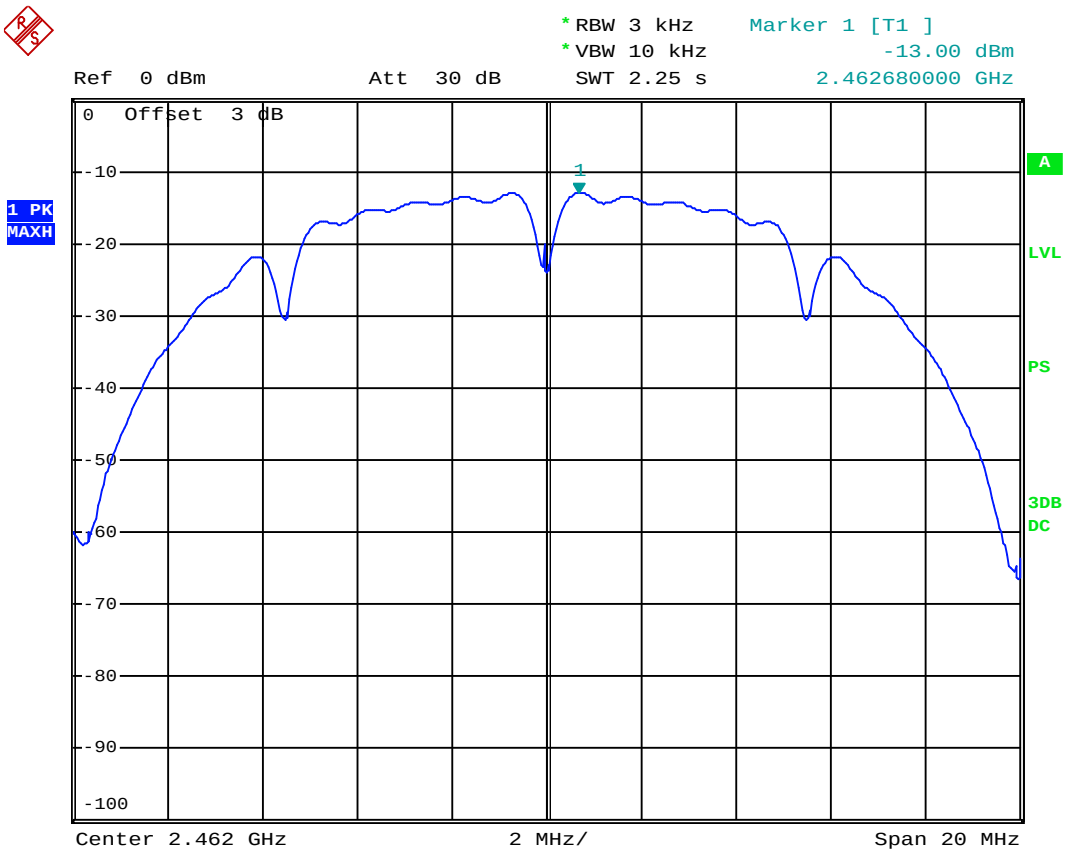
## 802.11b Ch01 2412 MHz



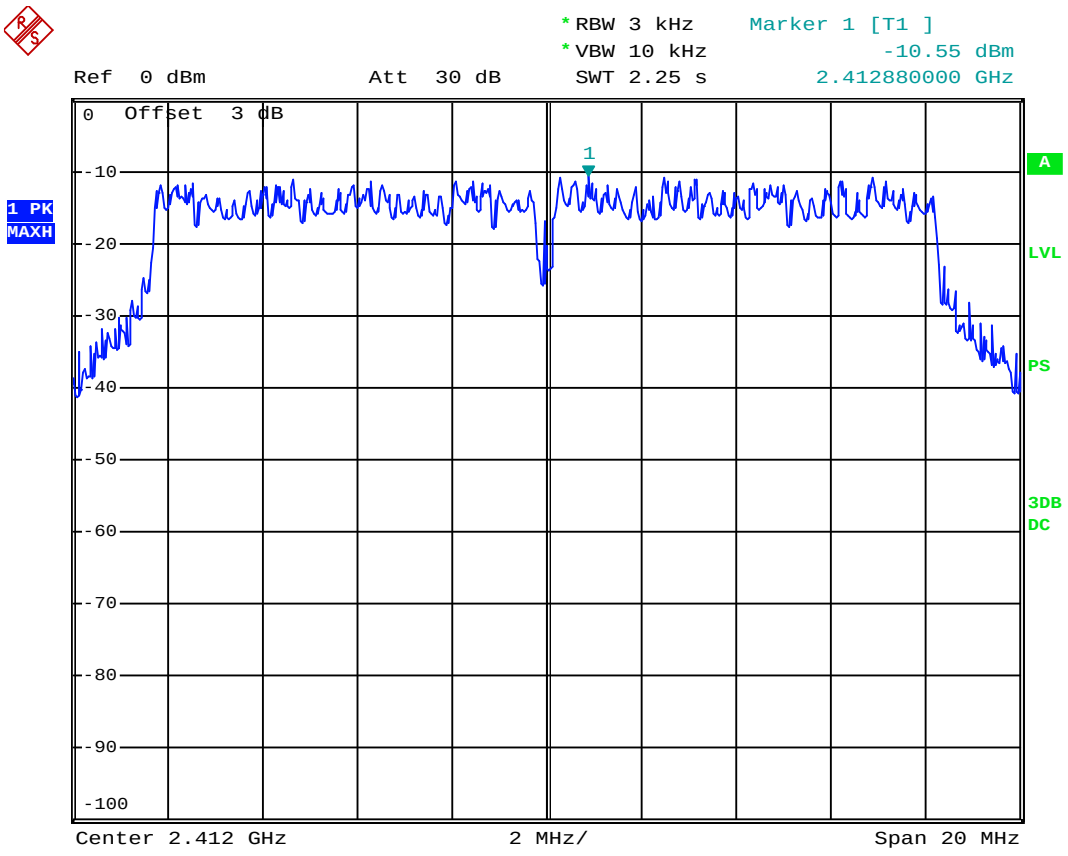

## 802.11b Ch06 2437 MHz



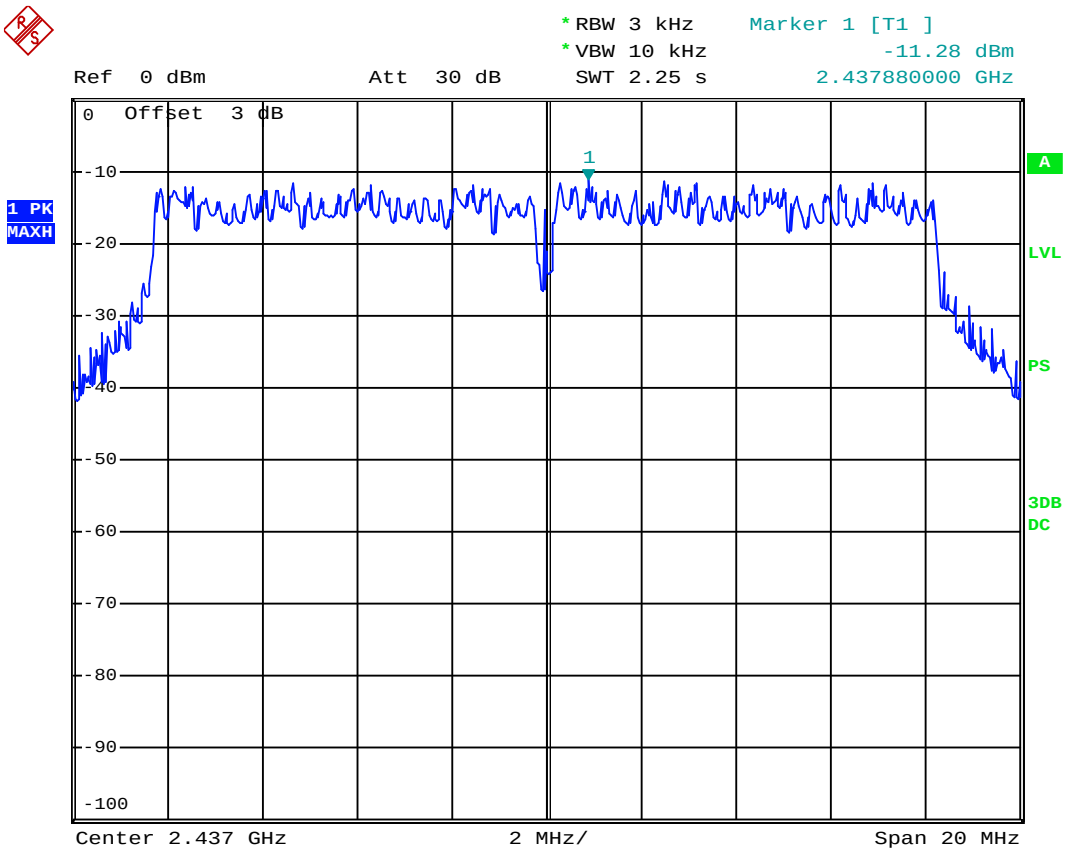
## 802.11b Ch11 2462 MHz



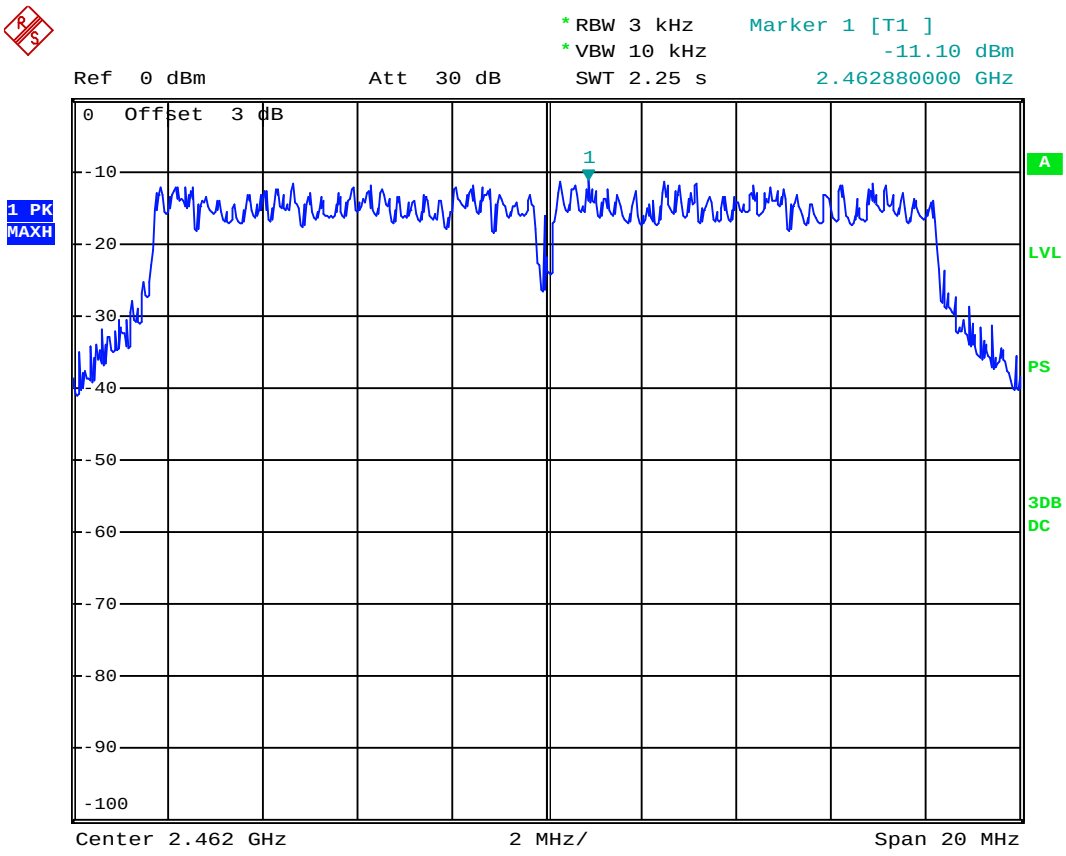
## 802.11g Ch01 2412 MHz



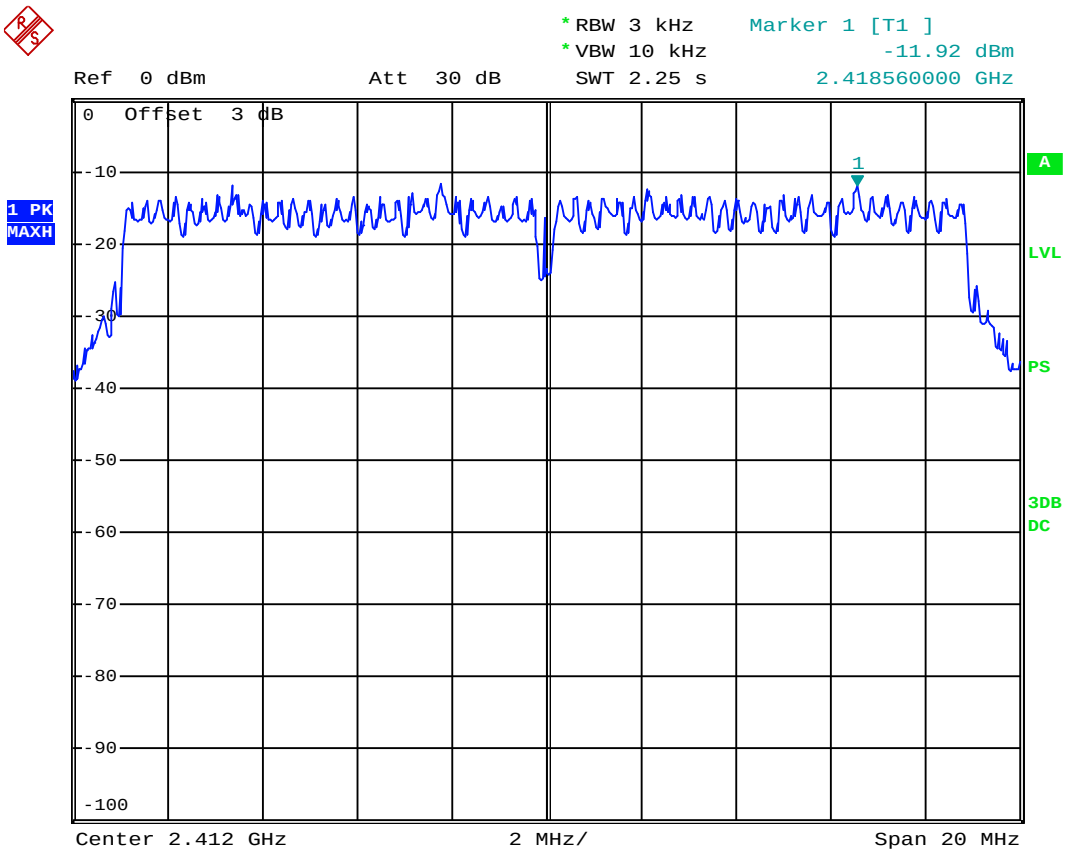

## 802.11g Ch06 2437 MHz



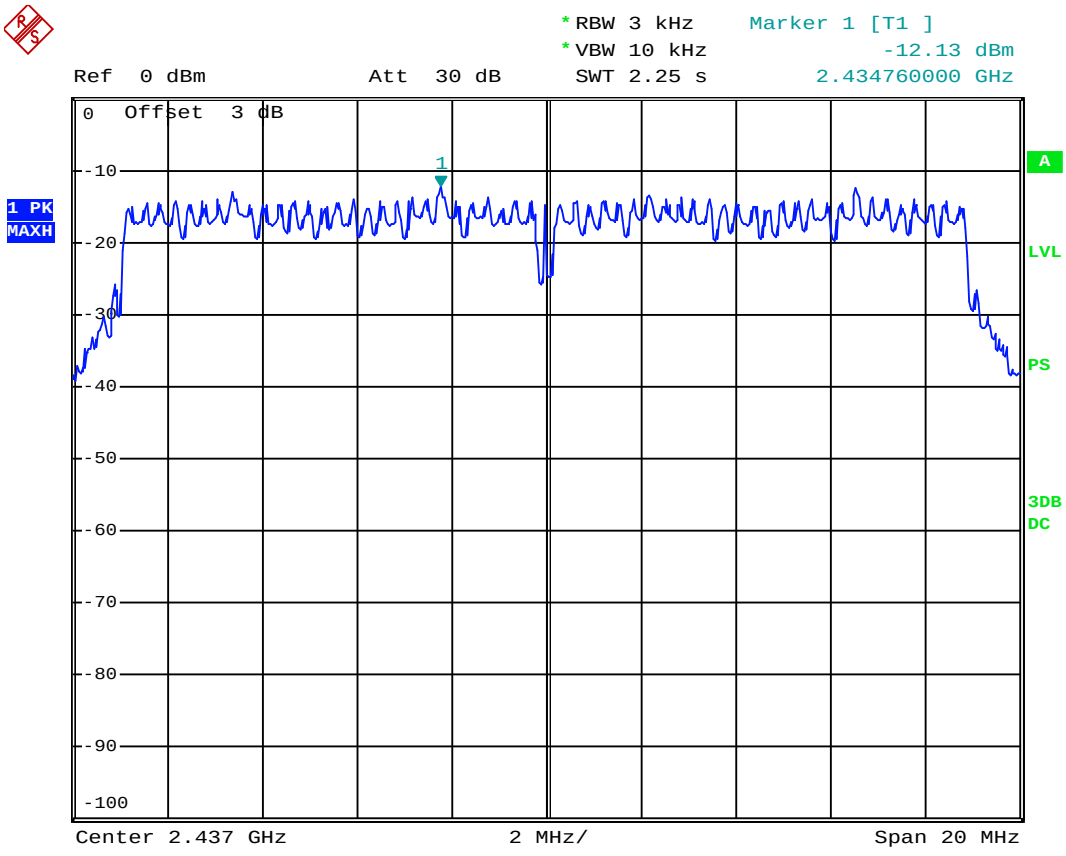
## 802.11g Ch11 2462 MHz



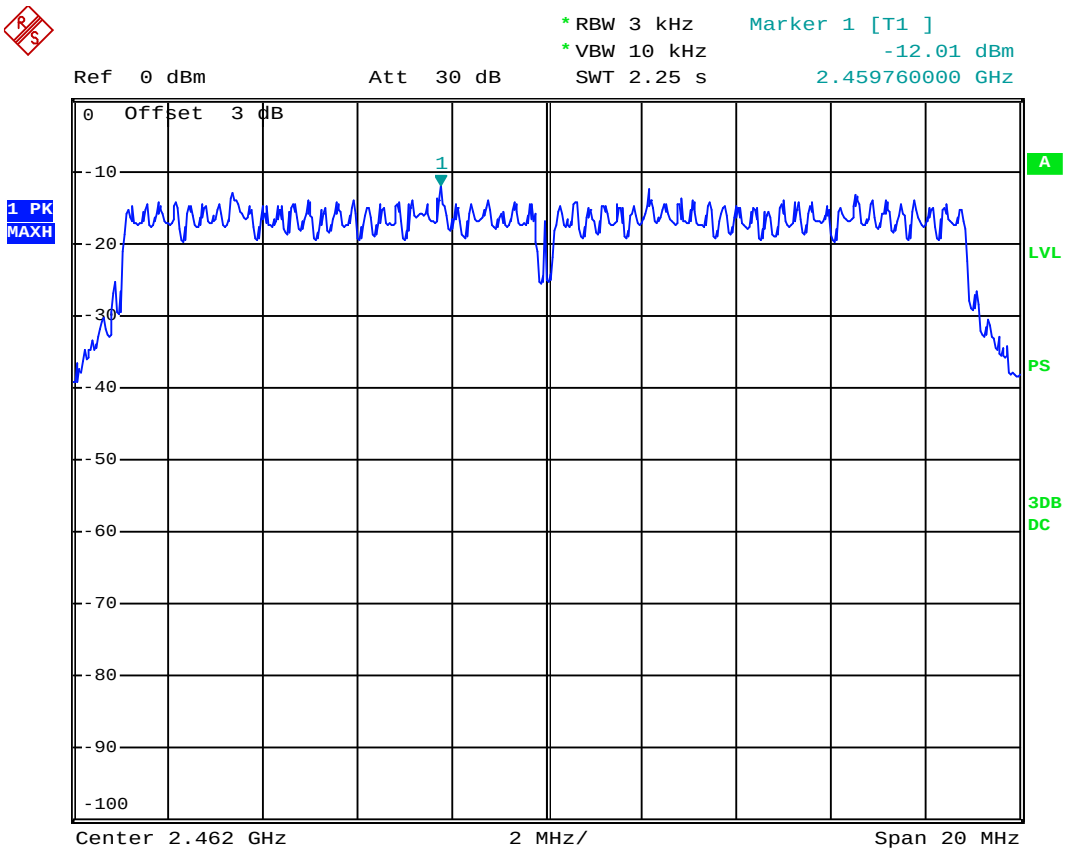
## 802.11n HT20 Ch01 2412 MHz



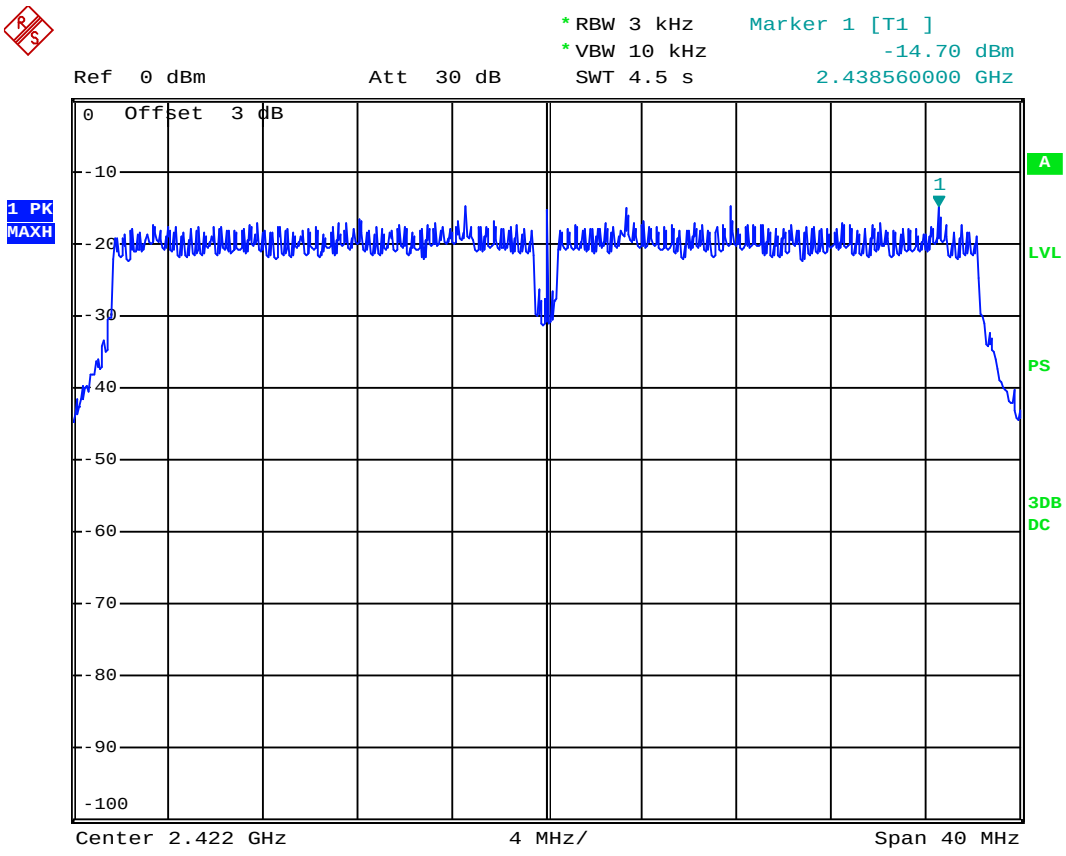

## 802.11n HT20 Ch06 2437 MHz



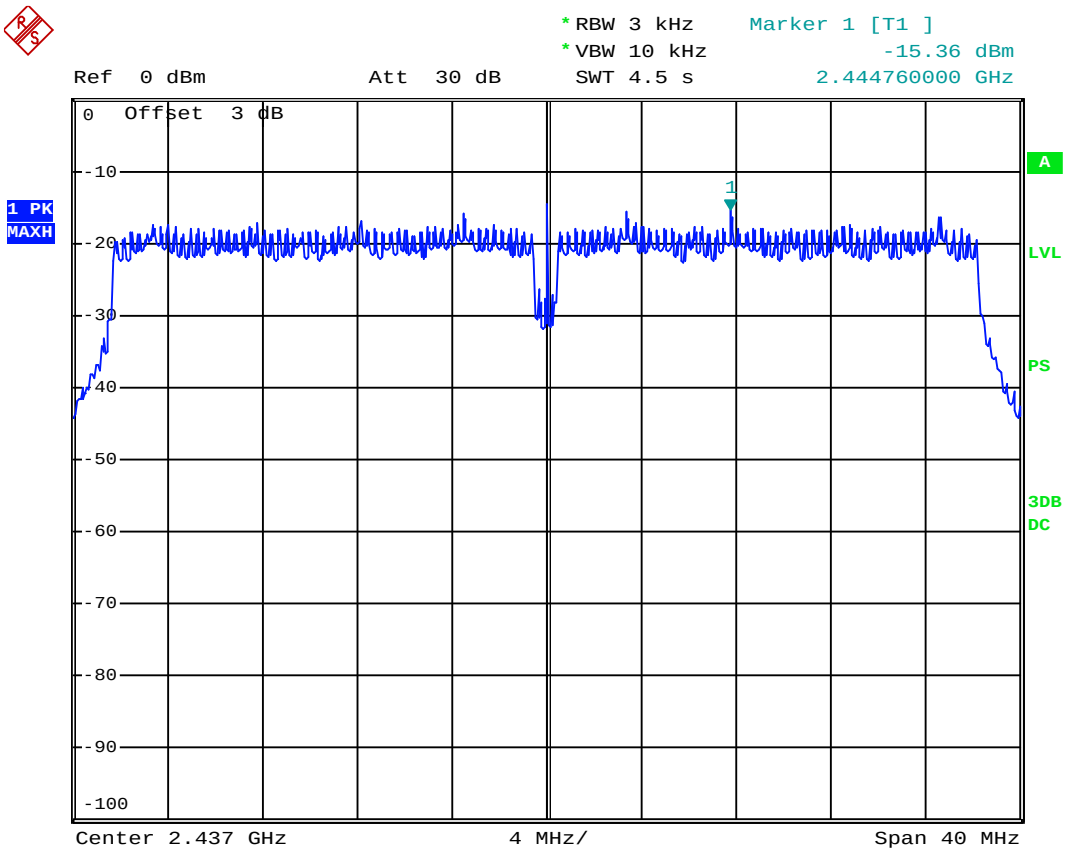
## 802.11n HT20 Ch11 2462 MHz



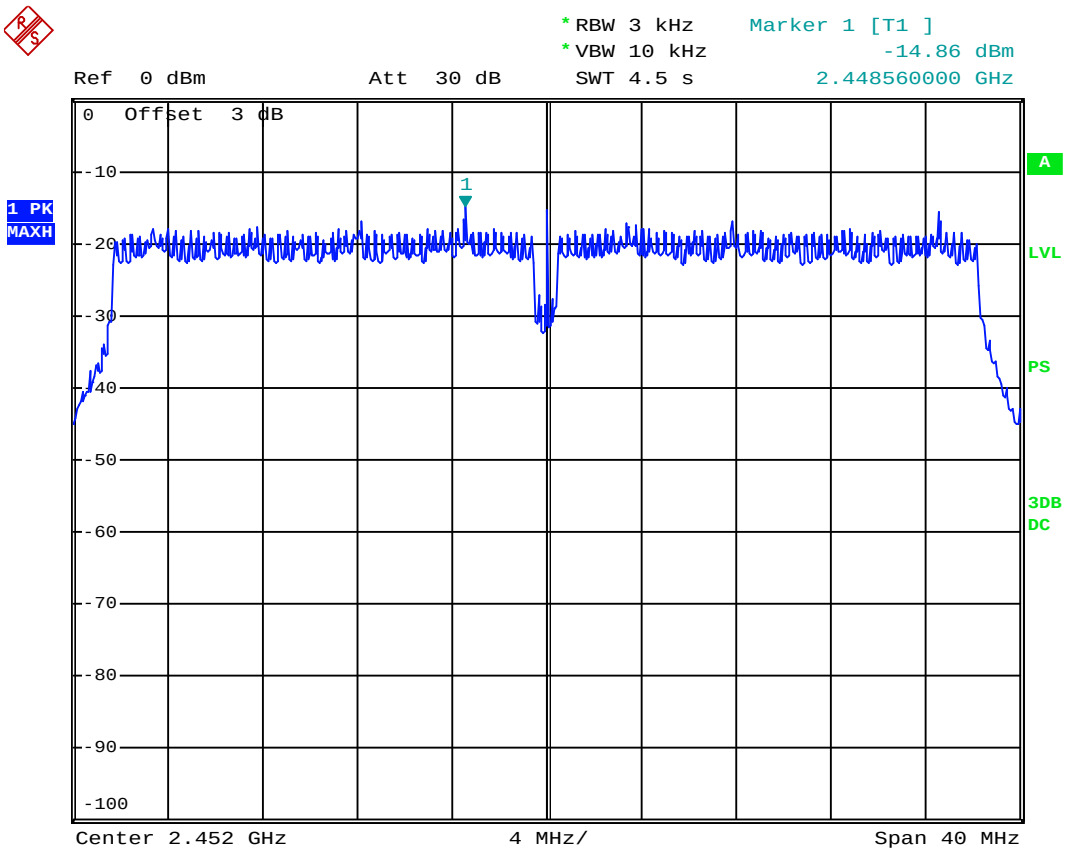
## 802.11n HT40 Ch03 2422 MHz




## 802.11n HT40 Ch06 2437 MHz



## 802.11n HT40 Ch09 2452 MHz



# 10 DEVIATION TO TEST SPECIFICATIONS

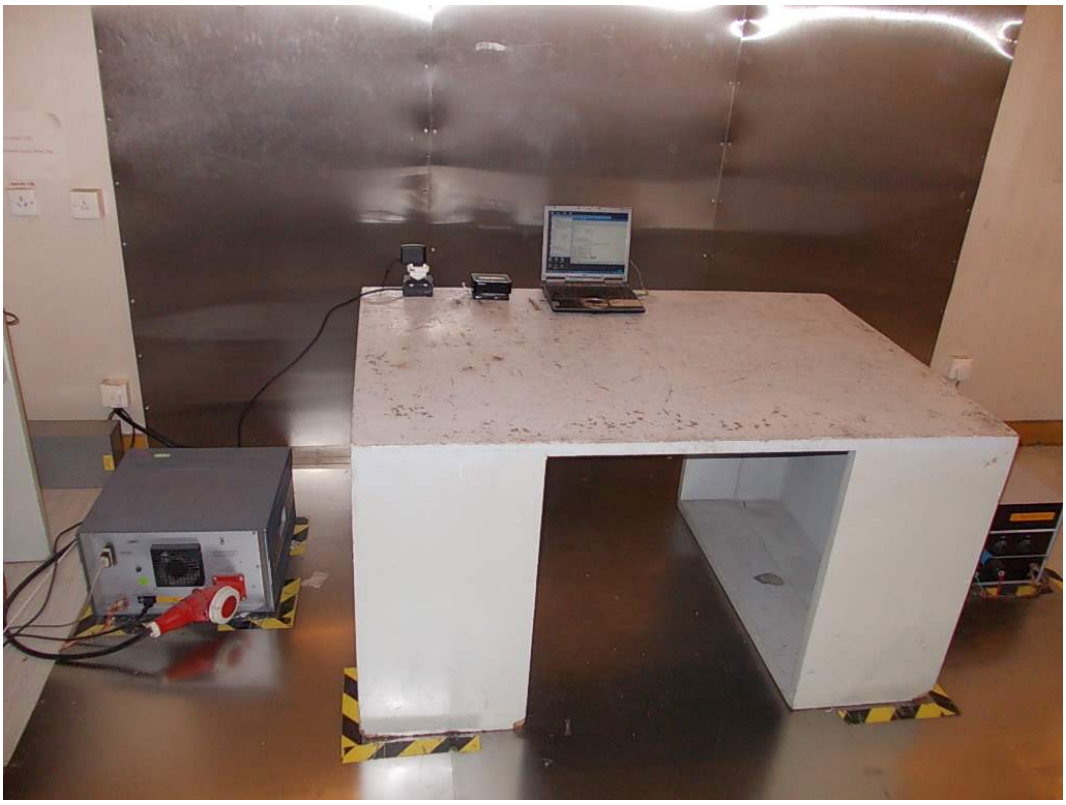
None.

# APPENDIX I

## PHOTOGRAPHS OF TEST

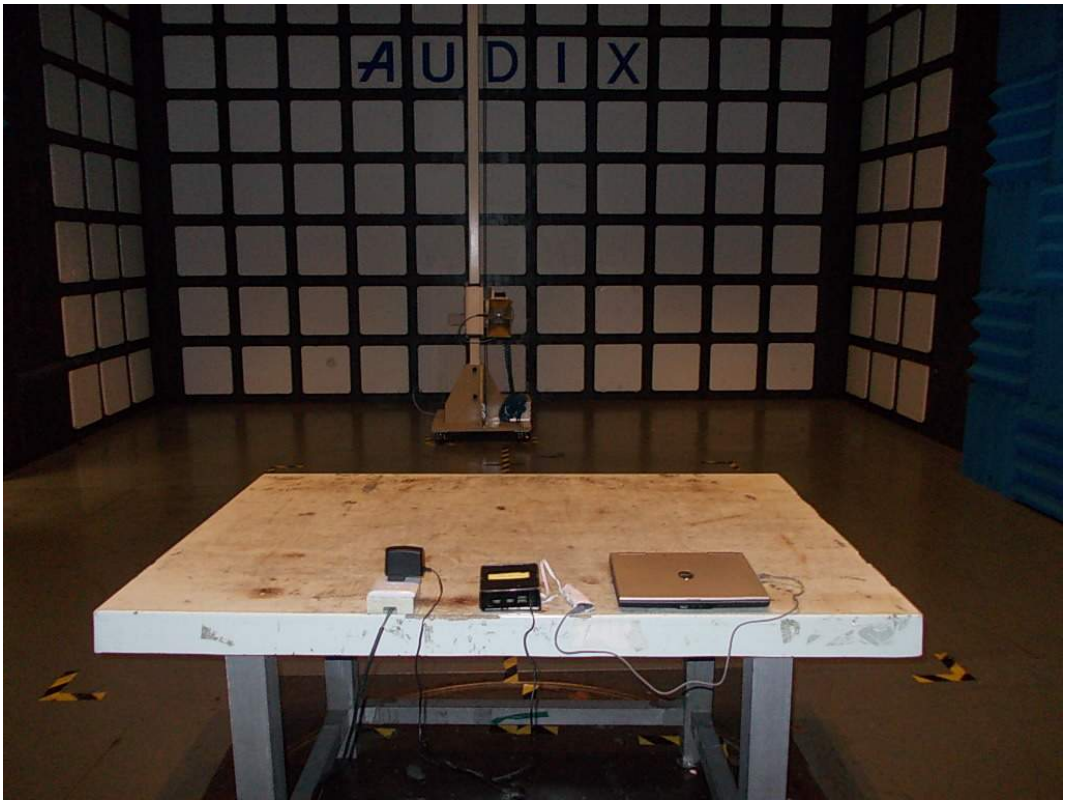
*Test Set-Up Photos*

1. Conducted Emission Test



2. Radiated Electromagnetic Emission Test

*FRONT VIEW OF RADIATED EMISSION TEST*
*(BELOW 1GHZ)*




*BACK VIEW OF RADIATED EMISSION TEST*
*(ABOVE 1GHZ)*

3. RF Test

# APPENDIX II

PHOTOGRAPHS OF EUT

*FIGURE 1*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*GENERAL APPEARANCE (FRONT VIEW)*

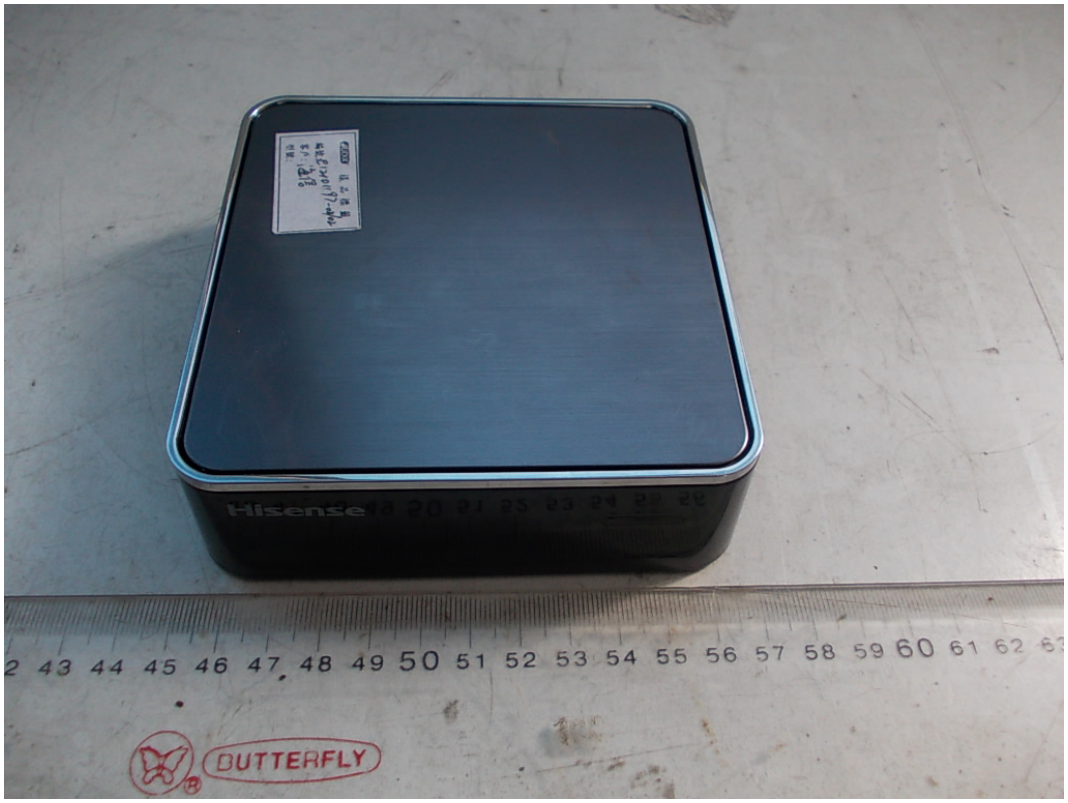



*FIGURE 2*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*GENERAL APPEARANCE (BACK VIEW)*

*FIGURE 3*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*PORTS #1*

*FIGURE 4*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*PORTS #2*

*FIGURE 5*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*COVER REMOVED*

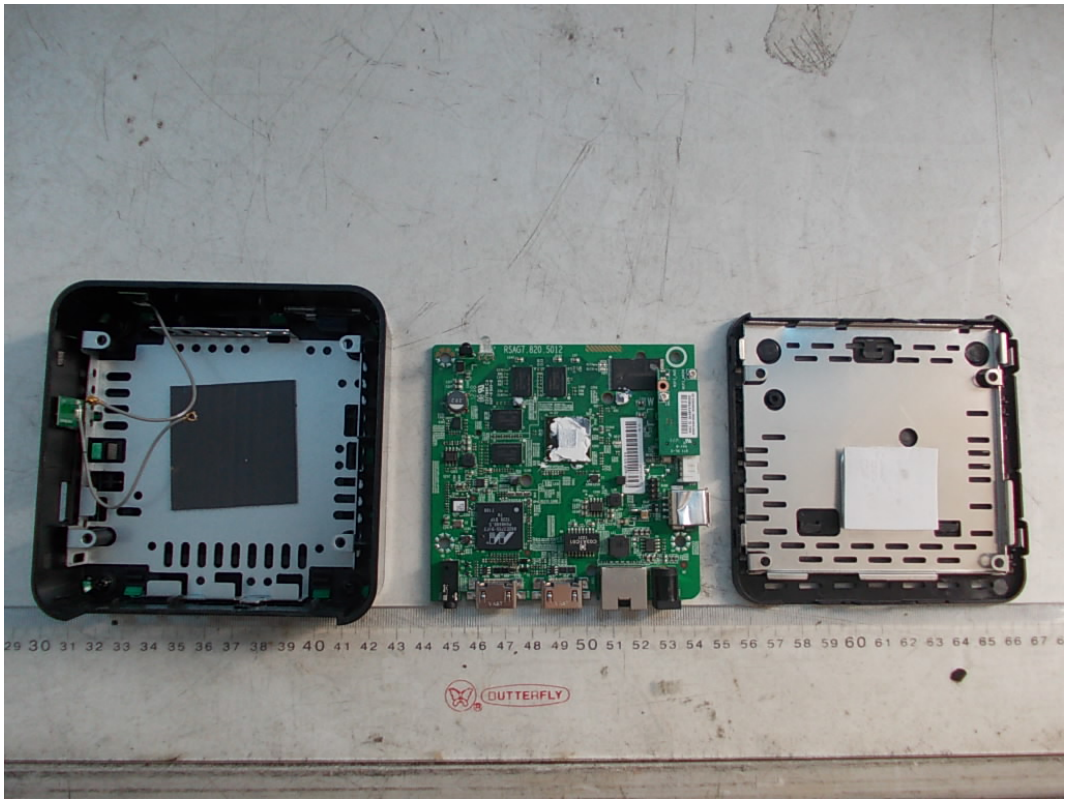


*FIGURE 6*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*MAIN BOARD (COMPONENT SIDE)*

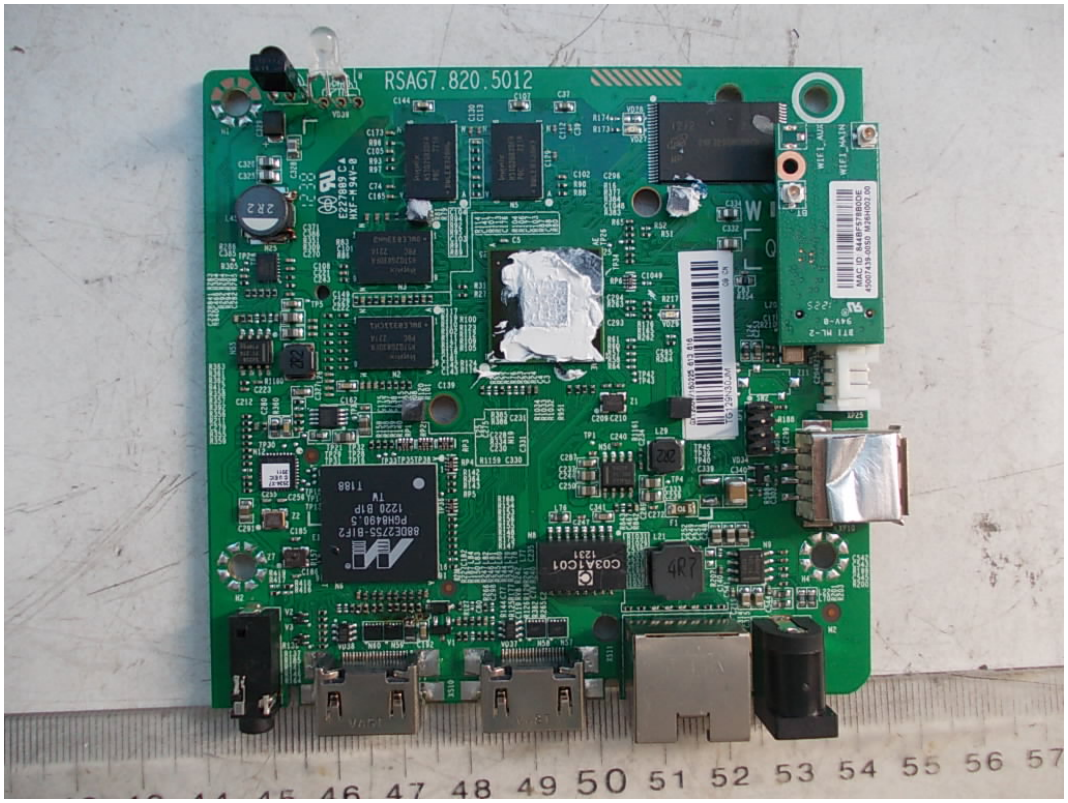



*FIGURE 7*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*MAIN BOARD (SOLDERED SIDE)*

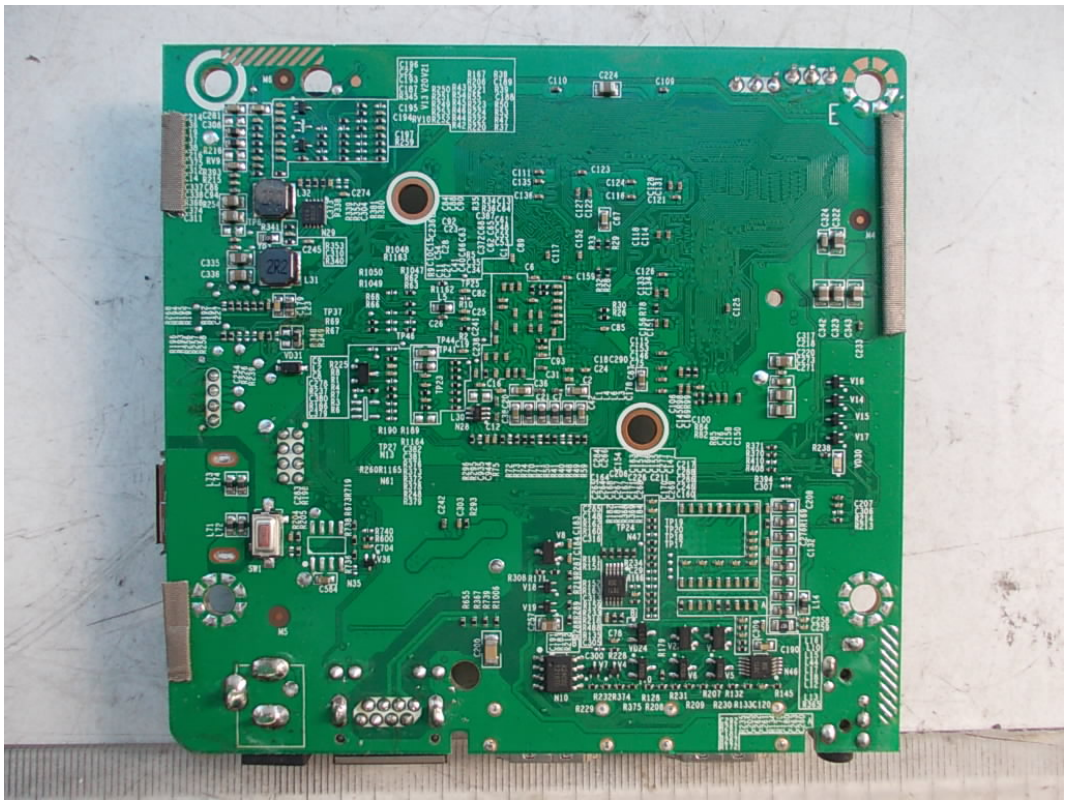


*FIGURE 8*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*CHIP & CRYSTAL #1 ON MAIN BOARD*

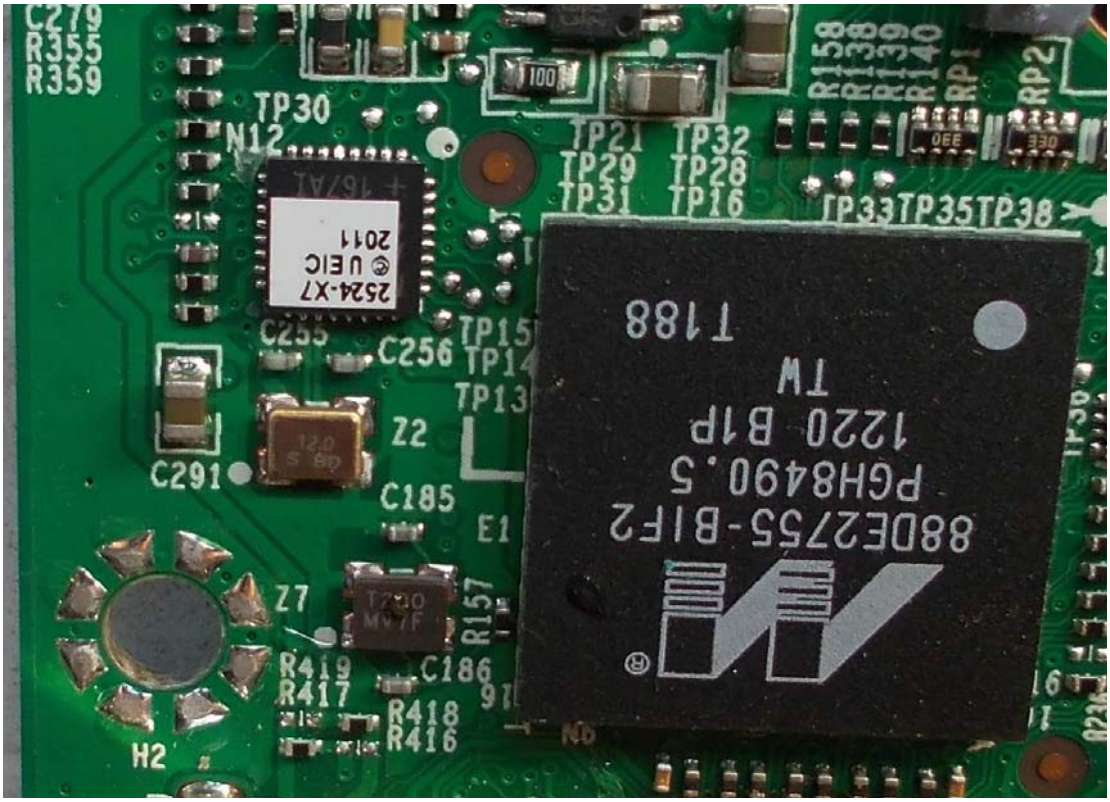



*FIGURE 9*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*CRYSTAL #2 ON MAIN BOARD*

*FIGURE 10*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*ANTENNA POSITION*

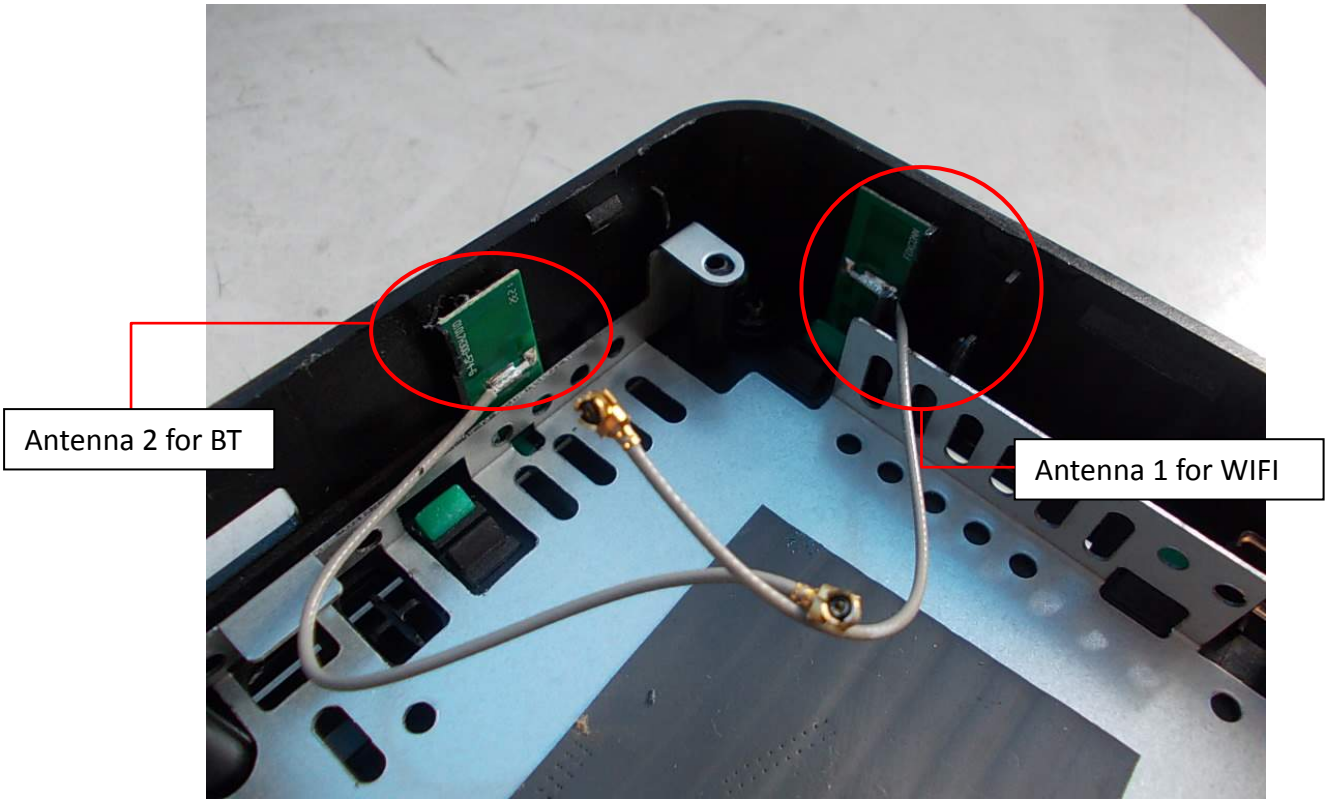



*FIGURE 11*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*ANTENNA (FRONT VIEW)*

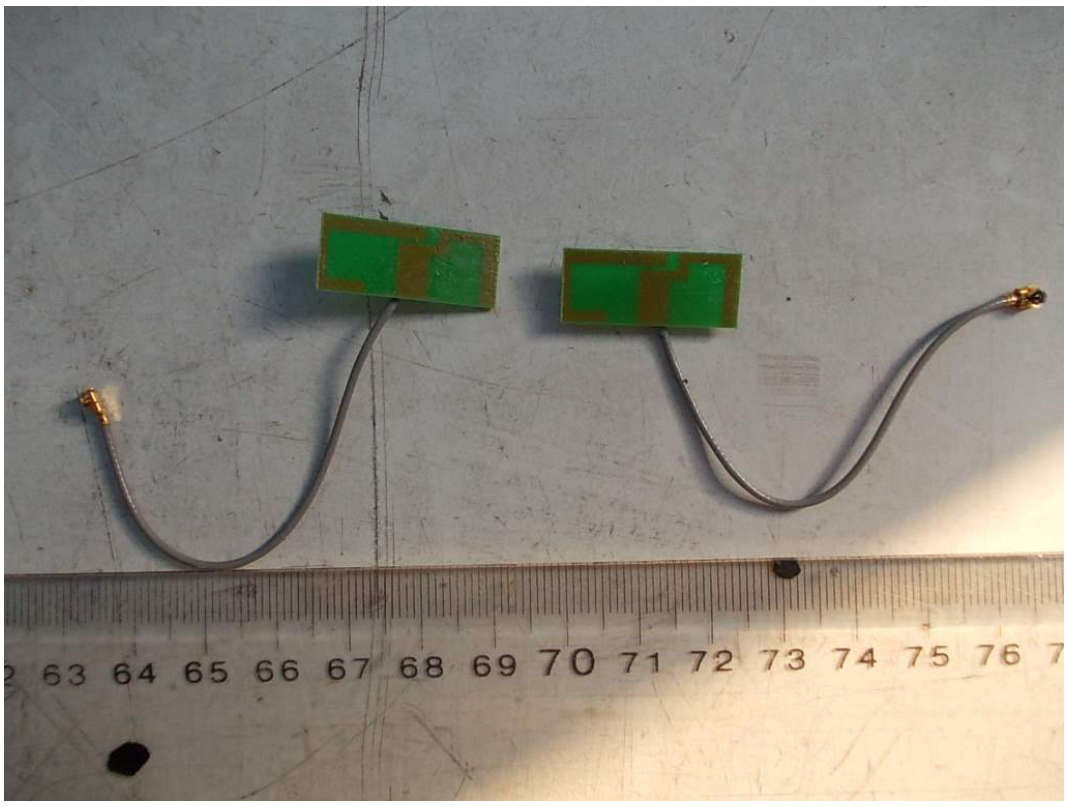


*FIGURE 12*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*ANTENNA (BACK VIEW)*

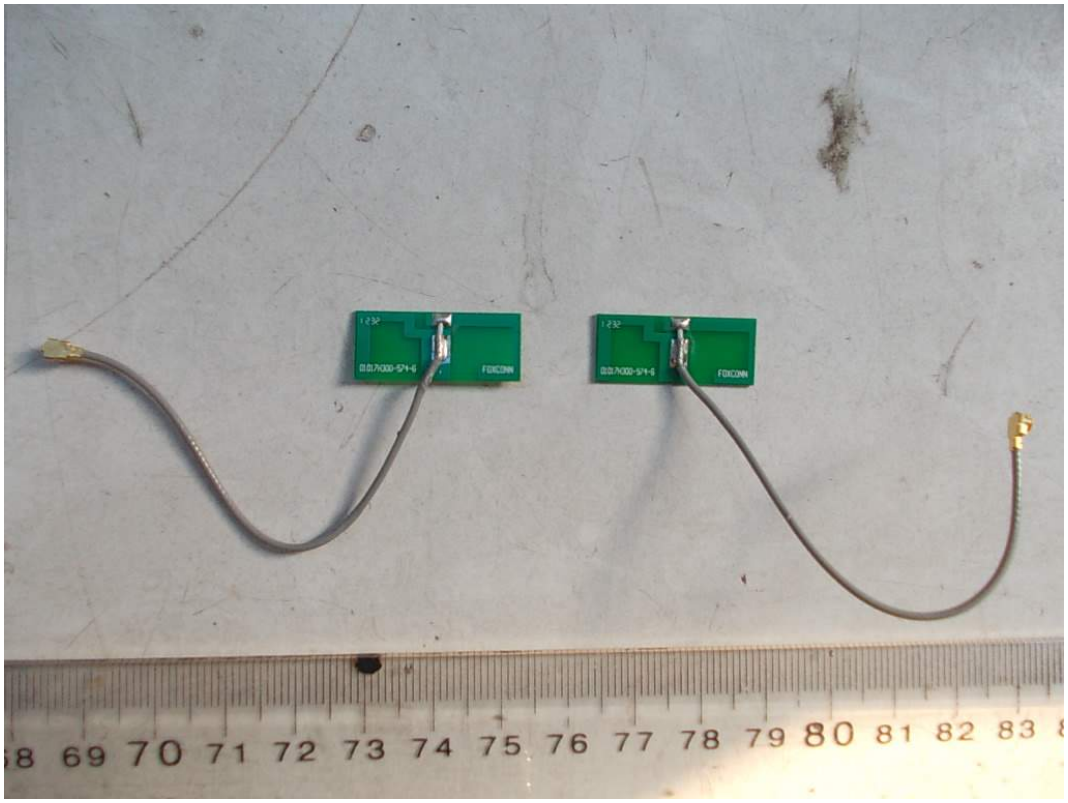



*FIGURE 13*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*RF BOARD (FRONT VIEW)*

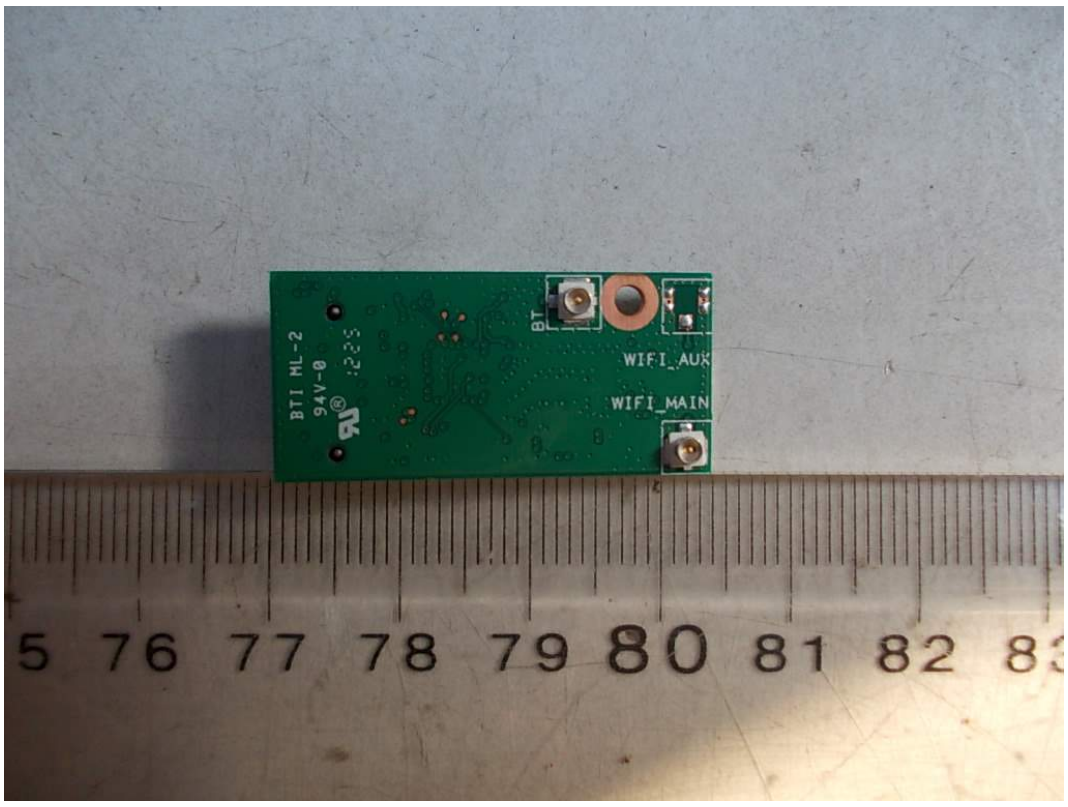


*FIGURE 14*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*RF BOARD (BACK VIEW)*

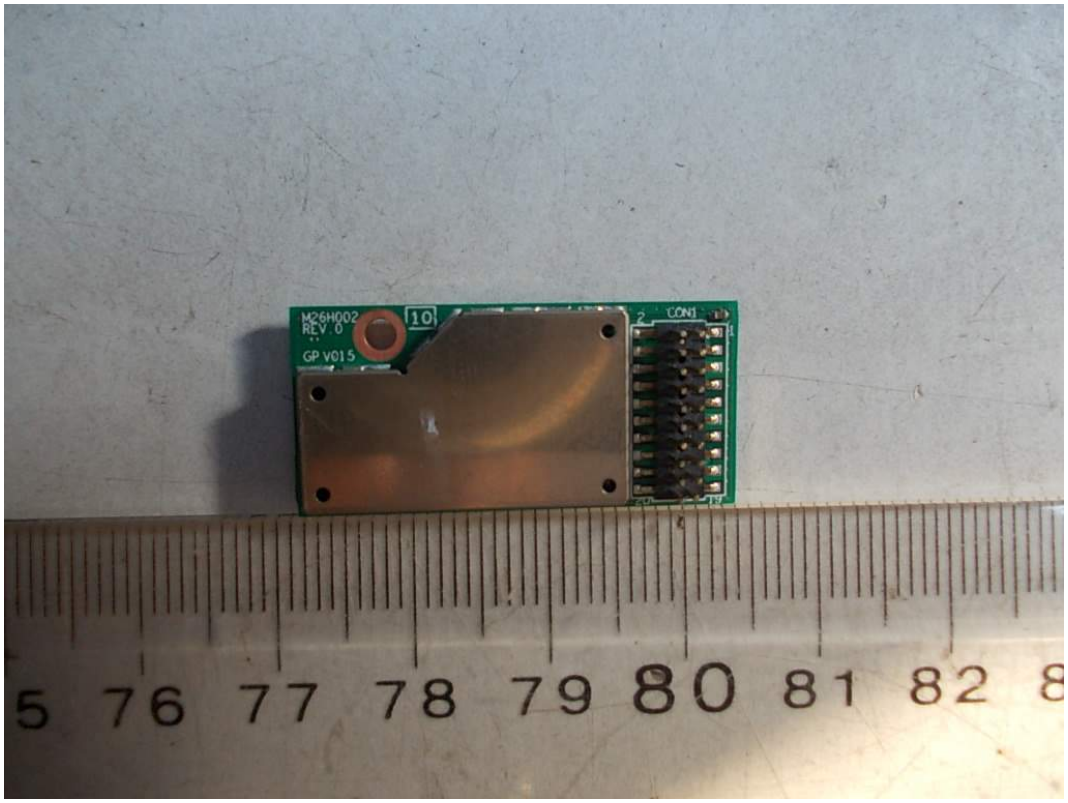



*FIGURE 15*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*RF BOARD (SHIELDED COVER REMOVED)*

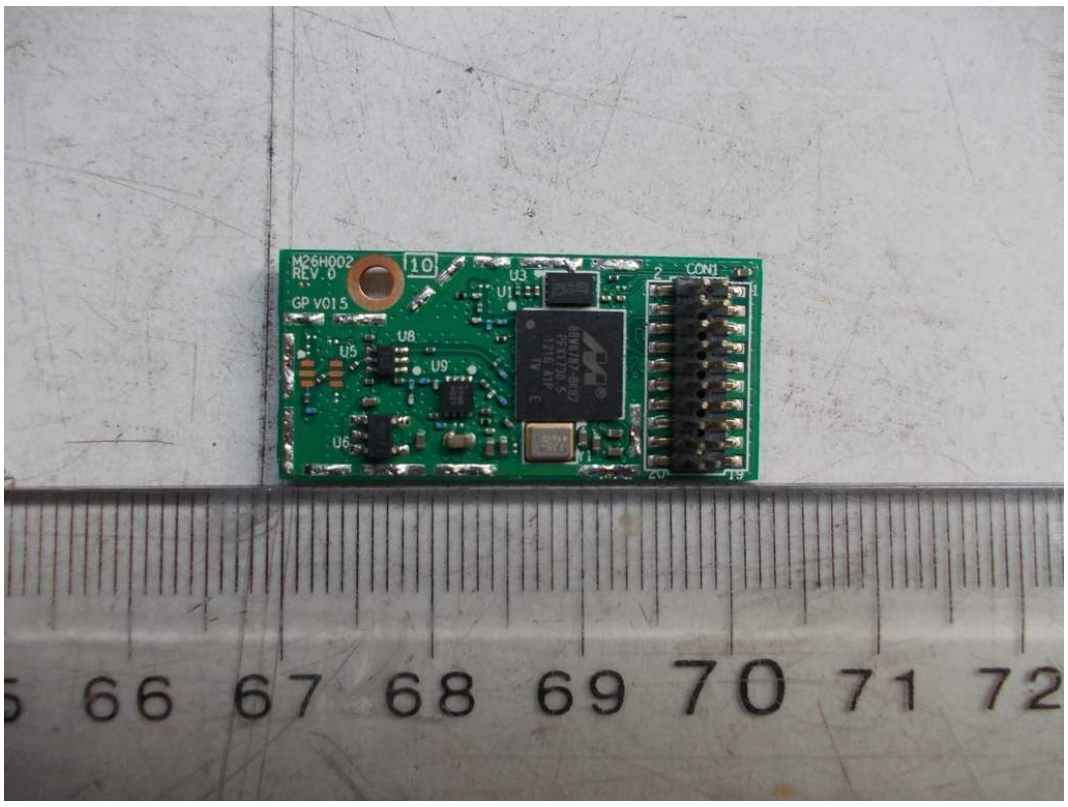


*FIGURE 16*
*NETWORK MEDIA PLAYER (M/N: GX1200V)*
*CHIP & CRYSTAL ON RF BOARD*

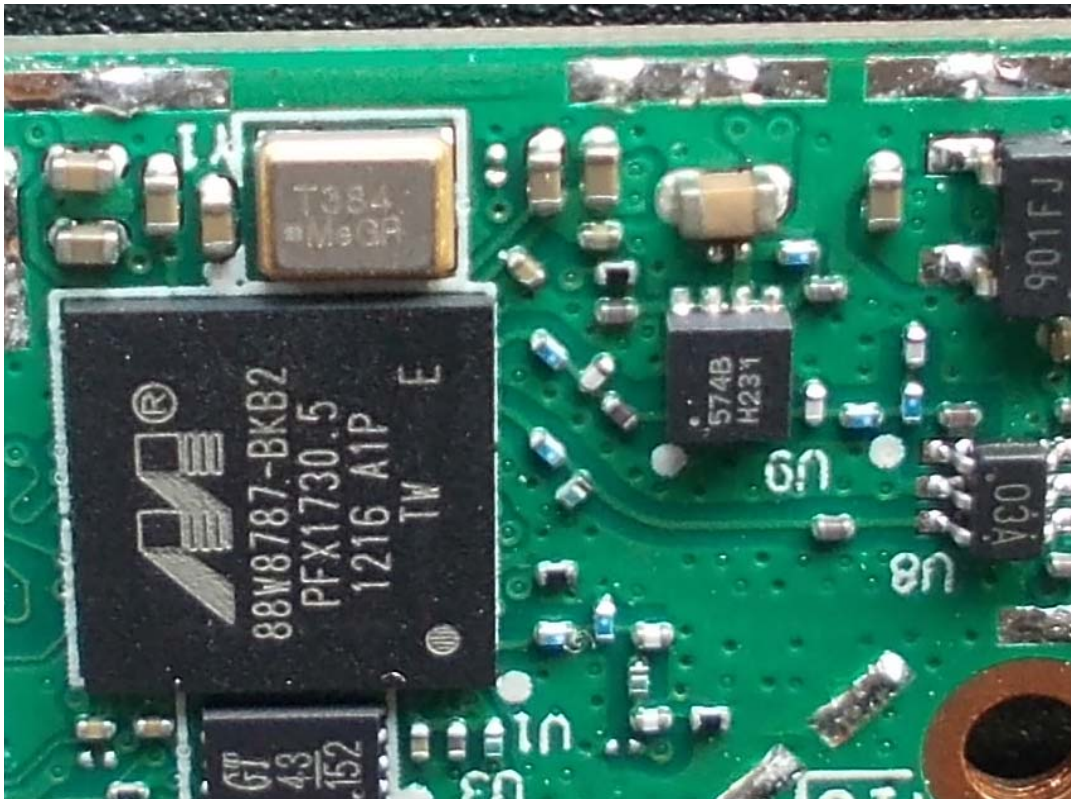



*FIGURE 17*
*LCD MONITOR (M/N: E1948TX)*
*ADAPTER (GENERAL APPEARANCE)*

*FIGURE 18*
*LCD MONITOR (M/N: E1948TX)*
*ADAPTER (GENERAL APPEARANCE – LABEL)*