

*FCC PART 15, SUBPART B and C  
TEST REPORT*

*for*

COMCAST XR2V3 GP565 2016

MODEL: URC-4269BC2-X-R

Prepared for

UNIVERSAL ELECTRONICS, INC.  
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DATE: FEBRUARY 12, 2016

|       | REPORT | APPENDICES |   |   |    |    | TOTAL |
|-------|--------|------------|---|---|----|----|-------|
|       | BODY   | A          | B | C | D  | E  |       |
| PAGES | 16     | 2          | 2 | 2 | 12 | 53 | 87    |

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## GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

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

Device Tested: Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
S/N: N/A

Product Description: The EUT is an RF remote control.

Modifications: The EUT was not modified in order to meet the specifications.

Customer: Universal Electronics, Inc.  
201 East Sandpointe Ave., 8<sup>TH</sup> Floor  
Santa Ana California, 92707

Test Dates: January 20, 21, and 29; and February 12, 2016

Test Specifications: Emissions requirements  
CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249

Test Procedure: ANSI C63.4, ANSI C63.10

Test Deviations: The test procedure was not deviated from during the testing.

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**SUMMARY OF TEST RESULTS**

| <b>TEST</b> | <b>DESCRIPTION</b>                                                                          | <b>RESULTS</b>                                                                                                                                                          |
|-------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1           | Spurious Radiated RF Emissions,<br>10 kHz – 25,000 MHz<br>(Transmitter and Digital portion) | Complies with the <b>Class B</b> limits of CFR Title 47,<br>Part 15 Subpart B; and the limits of CFR Title 47, Part<br>15, Subpart C, section 15.205, 15.209 and 15.249 |
| 2           | Conducted RF Emissions,<br>150 kHz to 30 MHz                                                | This test was not performed because the EUT operates<br>on battery power and does not connect to the AC mains.                                                          |

**1. PURPOSE**

This document is a qualification test report based on the emissions tests performed on the Comcast XR2v3 GP565 2016, Model: URC-4269BC2-X-R. The emissions measurements were performed according to the measurement procedure described in ANSI C63.4 and ANSI C63.10. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249.



## 2. ADMINISTRATIVE DATA

### 2.1 Location of Testing

The emissions tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

### 2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

### 2.3 Cognizant Personnel

Universal Electronics, Inc.

Jesse Mendez Senior Electrical Core Engineer

Compatible Electronics Inc.

Kyle Fujimoto Test Engineer

James Ross Test Engineer

### 2.4 Date Test Sample was Received

The test sample was received on January 29, 2016.

### 2.5 Disposition of the Test Sample

The test sample has not been returned to Universal Electronics, Inc. as of the date of this test report.

### 2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

|      |                                      |
|------|--------------------------------------|
| RF   | Radio Frequency                      |
| EMI  | Electromagnetic Interference         |
| EUT  | Equipment Under Test                 |
| P/N  | Part Number                          |
| S/N  | Serial Number                        |
| HP   | Hewlett Packard                      |
| ITE  | Information Technology Equipment     |
| CML  | Corrected Meter Limit                |
| LISN | Line Impedance Stabilization Network |
| N/A  | Not Applicable                       |
| DNF  | Do Not Fit                           |
| URC  | Universal Remote Control             |

### 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this emissions Test Report.

| SPEC                                  | TITLE                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC Title 47,<br>Part 15<br>Subpart C | FCC Rules - Radio frequency devices (including digital devices) –<br>Intentional Radiators                                                                                |
| FCC Title 47,<br>Part 15<br>Subpart B | FCC Rules - Radio frequency devices (including digital devices) –<br>Unintentional Radiators                                                                              |
| ANSI C63.4<br>2014                    | American National Standard for Methods of Measurement of Radio-Noise<br>Emissions from Low-Voltage Electrical and Electronic Equipment in the<br>Range of 9 kHz to 40 GHz |
| ANSI C63.10<br>2013                   | American National Standard for Testing Unlicensed Wireless Devices                                                                                                        |

#### **4. DESCRIPTION OF TEST CONFIGURATION**

##### **4.1 Description of Test Configuration - Emissions**

The Comcast XR2v3 GP565 2016, Model: URC-4269BC2-X-R (EUT) is a remote control that is powered by two AA 1.5 VDC batteries.

The EUT was tested for emissions at the low, middle, and high channels while in the X, Y and Z axis. The EUT has two separate antennas which were selectable during the test. During the testing, the EUT was continuously transmitting on the selected antenna.

The EUT was tested with new batteries.

The final radiated data for the EUT as was taken in the mode described above. Please see Appendix E for the data sheets.

##### **4.1.1 Cable Construction and Termination**

The EUT has no cables.

**5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT****5.1 EUT and Accessory List**

| EQUIPMENT                   | MANUFACTURER                   | MODEL NUMBER    | SERIAL NUMBER | FCC ID          |
|-----------------------------|--------------------------------|-----------------|---------------|-----------------|
| COMCAST XR2V3<br>GP565 2016 | UNIVERSAL<br>ELECTRONICS, INC. | URC-4269BC2-X-R | N/A           | MG3-4269BC2-X-R |

## 5.2 Emissions Test Equipment

| EQUIPMENT TYPE                              | MANU-FACTURER              | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DATE  | CAL. CYCLE |
|---------------------------------------------|----------------------------|--------------|---------------|-------------------|------------|
| <b>GENERAL TEST EQUIPMENT USED IN LAB D</b> |                            |              |               |                   |            |
| TDK TestLab                                 | TDK RF Solutions, Inc.     | 9.22         | 700145        | N/A               | N/A        |
| Computer                                    | Hewlett Packard            | p6716f       | MXX1030PX0    | N/A               | N/A        |
| LCD Monitor                                 | Hewlett Packard            | 52031a       | 3CQ046N3MG    | N/A               | N/A        |
| EMI Receiver, 20 Hz – 26.5 GHz              | Agilent Technologies       | N9038A       | MY51100115    | April 3, 2015     | 1 Year     |
| <b>RF RADIATED EMISSIONS TEST EQUIPMENT</b> |                            |              |               |                   |            |
| CombiLog Antenna                            | Com-Power                  | AC-220       | 61060         | September 3, 2015 | 1 Year     |
| Preamplifier                                | Com-Power                  | PA-118       | 551024        | March 6, 2015     | 1 Year     |
| Preamplifier                                | Com-Power                  | PA-840       | 711013        | May 13, 2014      | 2 Year     |
| Loop Antenna                                | Com-Power                  | AL-130       | 17089         | February 6, 2015  | 2 Year     |
| Horn Antenna                                | Com-Power                  | AH-118       | 071175        | February 26, 2014 | 2 Year     |
| Horn Antenna                                | Com-Power                  | AH-826       | 0071957       | N/A               | N/A        |
| Antenna Mast                                | Com Power                  | AM-100       | N/A           | N/A               | N/A        |
| System Controller                           | Sunol Sciences Corporation | SC110V       | 112213-1      | N/A               | N/A        |
| Turntable                                   | Sunol Sciences Corporation | 2011VS       | N/A           | N/A               | N/A        |
| Antenna-Mast                                | Sunol Sciences Corporation | TWR95-4      | 112213-3      | N/A               | N/A        |

## 6. TEST SITE DESCRIPTION

### 6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for emissions test location.

### 6.2 EUT Mounting, Bonding and Grounding

**For frequencies 1 GHz and below:** The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

**For frequencies above 1 GHz:** The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 1.5 meters above the ground plane.

The EUT was not grounded.

## 7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

### 7.1 RF Emissions

#### 7.1.1 Radiated Emissions Test

The EMI Receiver was used as the measuring meter. A built-in, internal preamplifier was used to increase the sensitivity of the instrument. The EMI Receiver was initially used with the Analyzer mode feature activated. In this mode, the EMI receiver can then record the actual frequency to be measured. This final reading is then taken accurately in the EMI Receiver mode, which takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. A quasi-peak reading was taken only for those readings, which are marked accordingly on the data sheets.

For frequencies above 1 GHz, the readings were average by a “duty cycle correction factor”, derived from  $20 \log(\text{dwell time} / 100 \text{ ms})$ . This duty cycle correction factor was then subtracted from the peak reading.

The measurement bandwidths and transducers used for the radiated emissions test were:

| FREQUENCY RANGE   | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER       |
|-------------------|---------------------------------|------------------|
| 9 kHz to 150 kHz  | 200 Hz                          | Loop Antenna     |
| 150 kHz to 30 MHz | 9 kHz                           | Loop Antenna     |
| 30 MHz to 1 GHz   | 120 kHz                         | Combilog Antenna |
| 1 GHz to 25 GHz   | 1 MHz                           | Horn Antenna     |

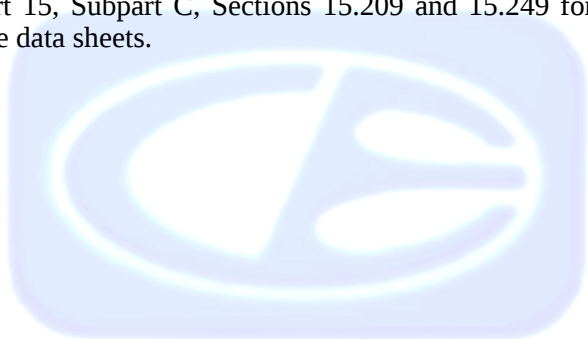
The EMI test chamber of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is in full compliance with ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

### **Radiated Emissions Test (Continued)**

The EUT was tested at a 3-meter test distance from 10 kHz to 25 GHz.

#### **Test Results:**

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, Sections 15.209 and 15.249 for radiated emissions. Please see Appendix E for the data sheets.



**7.1.3 RF Emissions Test Results**Table 1.0 RADIATED EMISSION RESULTS  
Comcast XR2v3 GP565 2016, Model: URC-4269BC2-X-R

| Frequency<br>MHz                 | Corrected Reading*<br>dBuV | Specification Limit<br>dBuV | Delta<br>(Cor. Reading – Spec. Limit)<br>dB |
|----------------------------------|----------------------------|-----------------------------|---------------------------------------------|
| 7350 (H) (X-Axis)<br>(Antenna 0) | 53.76 (Avg)                | 54.00                       | -0.24                                       |
| 7275 (V) (X-Axis)<br>(Antenna 0) | 53.69 (Avg)                | 54.00                       | -0.31                                       |
| 7275 (H) (X-Axis)<br>(Antenna 0) | 53.59 (Avg)                | 54.00                       | -0.41                                       |
| 7350 (H) (Y-Axis)<br>(Antenna 0) | 53.50 (Avg)                | 54.00                       | -0.50                                       |
| 7425 (H) (Z-Axis)<br>(Antenna 0) | 53.33 (Avg)                | 54.00                       | -0.67                                       |
| 7275 (V) (Y-Axis)<br>(Antenna 0) | 53.26 (Avg)                | 54.00                       | -0.74                                       |

## Notes:

(H) Horizontal  
(V) Vertical  
(Avg) Averaged Reading  
\* The complete emissions data is given in Appendix E of this report.

## 8. CONCLUSIONS

The Comcast XR2v3 GP565 2016, Model: URC-4269BC2-X-R, as tested, meets all of the specification limits defined in FCC Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249.





**APPENDIX A**

***LABORATORY ACCREDITATIONS AND RECOGNITIONS***

---

**Brea Division**  
114 Olinda Drive  
Brea, CA 92823  
(714) 579-0500

**Agoura Division**  
2337 Troutdale Drive  
Agoura, CA 91301  
(818) 597-0600

**Silverado Division**  
19121 El Toro Road  
Silverado, CA 92676  
(949) 589-0700

**Lake Forest Division**  
20621 Pascal Way  
Lake Forest, CA 92630  
(949) 587-0400

## LABORATORY ACCREDITATIONS AND RECOGNITIONS



For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025. Please follow the link to the NIST/NVLAP site for each of our facilities' NVLAP certificate and scope of accreditation

**NVLAP listing links**

[Agoura Division](#) / [Brea Division](#) / [Silverado/Lake Forest Division](#)

.Quote from ISO-ILAC-IAF Communiqué on 17025:

"A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 Quality Management Systems — Requirements."



ANSI listing [CETCB](#)



Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for EMC under the US/EU Mutual Recognition Agreement (MRA).

US/EU MRA list [NIST MRA site](#)



Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for Taiwan/BSMI under the US/APEC (Asia-Pacific Economic Cooperation) Mutual Recognition Agreement (MRA).

APEC MRA list [NIST MRA site](#)

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FCC Listing, from FCC OET site

[FCC test lab search](http://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm) [https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm](http://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm)



Compatible Electronics IC listing can be found at:

<http://www.ic.gc.ca/eic/site/ic1.nsf/eng/home>

**Brea Division**  
114 Olinda Drive  
Brea, CA 92823  
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**Agoura Division**  
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**Silverado Division**  
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Silverado, CA 92676  
(949) 589-0700

**Lake Forest Division**  
20621 Pascal Way  
Lake Forest, CA 92630  
(949) 587-0400



**APPENDIX B**

***MODIFICATIONS TO THE EUT***

## MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart B and FCC 15.249 specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No Modifications were made to the EUT during the testing.





**APPENDIX C**

***ADDITIONAL MODELS COVERED  
UNDER THIS REPORT***

## **ADDITIONAL MODELS COVERED UNDER THIS REPORT**

USED FOR THE PRIMARY TEST

Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
S/N: N/A

There were no additional models covered under this report.

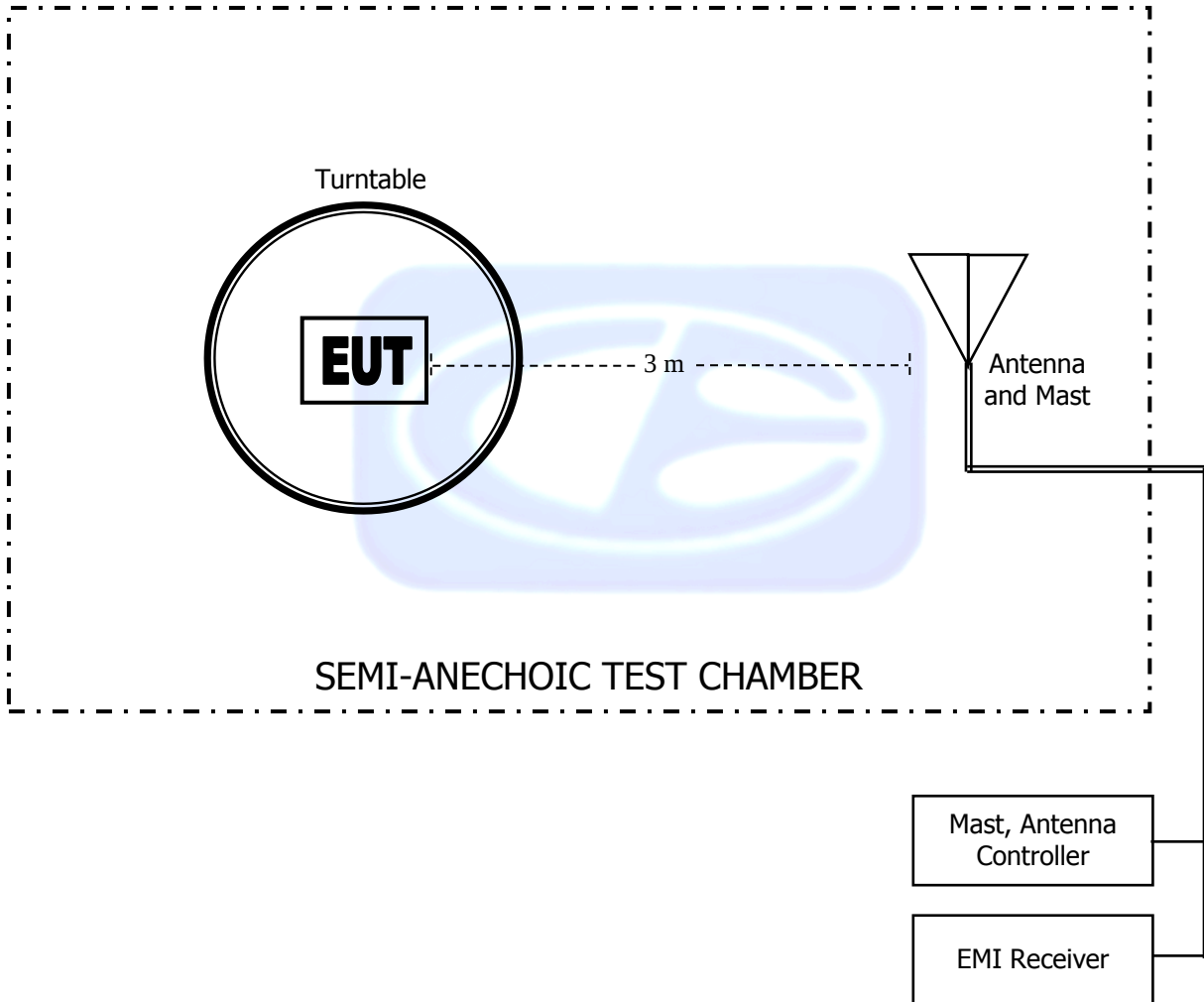




**APPENDIX D**

***DIAGRAMS AND CHARTS***

**FIGURE 1: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER**



**COM-POWER AL-130****LOOP ANTENNA****S/N: 17089****CALIBRATION DATE: FEBRUARY 6, 2015**

| <b>FREQUENCY<br/>(MHz)</b> | <b>MAGNETIC<br/>(dB/m)</b> | <b>ELECTRIC<br/>(dB/m)</b> |
|----------------------------|----------------------------|----------------------------|
| 0.009                      | -33.18                     | 18.32                      |
| 0.01                       | -34.10                     | 17.40                      |
| 0.02                       | -38.65                     | 12.85                      |
| 0.03                       | -39.28                     | 12.22                      |
| 0.04                       | -40.09                     | 11.41                      |
| 0.05                       | -40.85                     | 10.65                      |
| 0.06                       | -40.88                     | 10.62                      |
| 0.07                       | -41.07                     | 10.43                      |
| 0.08                       | -41.04                     | 10.46                      |
| 0.09                       | -41.19                     | 10.31                      |
| 0.1                        | -41.20                     | 10.30                      |
| 0.2                        | -41.52                     | 9.98                       |
| 0.3                        | -41.53                     | 9.97                       |
| 0.4                        | -41.42                     | 10.08                      |
| 0.5                        | -41.53                     | 9.97                       |
| 0.6                        | -41.53                     | 9.97                       |
| 0.7                        | -41.43                     | 10.07                      |
| 0.8                        | -41.23                     | 10.27                      |
| 0.9                        | -41.13                     | 10.37                      |
| 1                          | -41.14                     | 10.36                      |
| 2                          | -40.80                     | 10.70                      |
| 3                          | -40.66                     | 10.84                      |
| 4                          | -40.61                     | 10.89                      |
| 5                          | -40.33                     | 11.17                      |
| 6                          | -40.53                     | 10.97                      |
| 7                          | -40.47                     | 11.03                      |
| 8                          | -40.48                     | 11.02                      |
| 9                          | -39.93                     | 11.57                      |
| 10                         | -39.81                     | 11.69                      |
| 15                         | -43.35                     | 8.15                       |
| 20                         | -39.16                     | 12.34                      |
| 25                         | -40.24                     | 11.26                      |
| 30                         | -43.18                     | 8.32                       |

COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61060

CALIBRATION DATE: SEPTEMBER 3, 2015

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 30                 | 24.00          | 200                | 13.00          |
| 35                 | 24.30          | 250                | 15.30          |
| 40                 | 25.40          | 300                | 18.20          |
| 45                 | 21.50          | 350                | 17.90          |
| 50                 | 22.50          | 400                | 18.60          |
| 60                 | 15.40          | 450                | 19.80          |
| 70                 | 12.70          | 500                | 21.60          |
| 80                 | 11.10          | 550                | 22.40          |
| 90                 | 13.40          | 600                | 23.70          |
| 100                | 13.80          | 650                | 24.30          |
| 120                | 15.40          | 700                | 24.00          |
| 125                | 15.40          | 750                | 24.50          |
| 140                | 13.10          | 800                | 24.30          |
| 150                | 17.20          | 850                | 26.30          |
| 160                | 13.20          | 900                | 26.90          |
| 175                | 14.20          | 950                | 26.00          |
| 180                | 14.30          | 1000               | 25.60          |

**COM POWER AH-118****HORN ANTENNA****S/N: 071175****CALIBRATION DATE: FEBRUARY 26, 2014**

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 24.23                  | 10.0                       | 38.43                  |
| 1.5                        | 25.84                  | 10.5                       | 40.19                  |
| 2.0                        | 28.14                  | 11.0                       | 40.49                  |
| 2.5                        | 29.51                  | 11.5                       | 41.39                  |
| 3.0                        | 31.20                  | 12.0                       | 42.02                  |
| 3.5                        | 32.17                  | 12.5                       | 43.30                  |
| 4.0                        | 31.40                  | 13.0                       | 42.77                  |
| 4.5                        | 31.86                  | 13.5                       | 40.18                  |
| 5.0                        | 34.82                  | 14.0                       | 42.59                  |
| 5.5                        | 34.38                  | 14.5                       | 41.74                  |
| 6.0                        | 36.31                  | 15.0                       | 41.84                  |
| 6.5                        | 34.81                  | 15.5                       | 38.48                  |
| 7.0                        | 37.48                  | 16.0                       | 39.52                  |
| 7.5                        | 36.98                  | 16.5                       | 37.85                  |
| 8.0                        | 36.66                  | 17.0                       | 41.33                  |
| 8.5                        | 38.47                  | 17.5                       | 44.96                  |
| 9.0                        | 37.22                  | 18.0                       | 48.50                  |
| 9.5                        | 37.86                  |                            |                        |

**COM-POWER PA-118****PREAMPLIFIER****S/N: 551024****CALIBRATION DATE: MARCH 6, 2015**

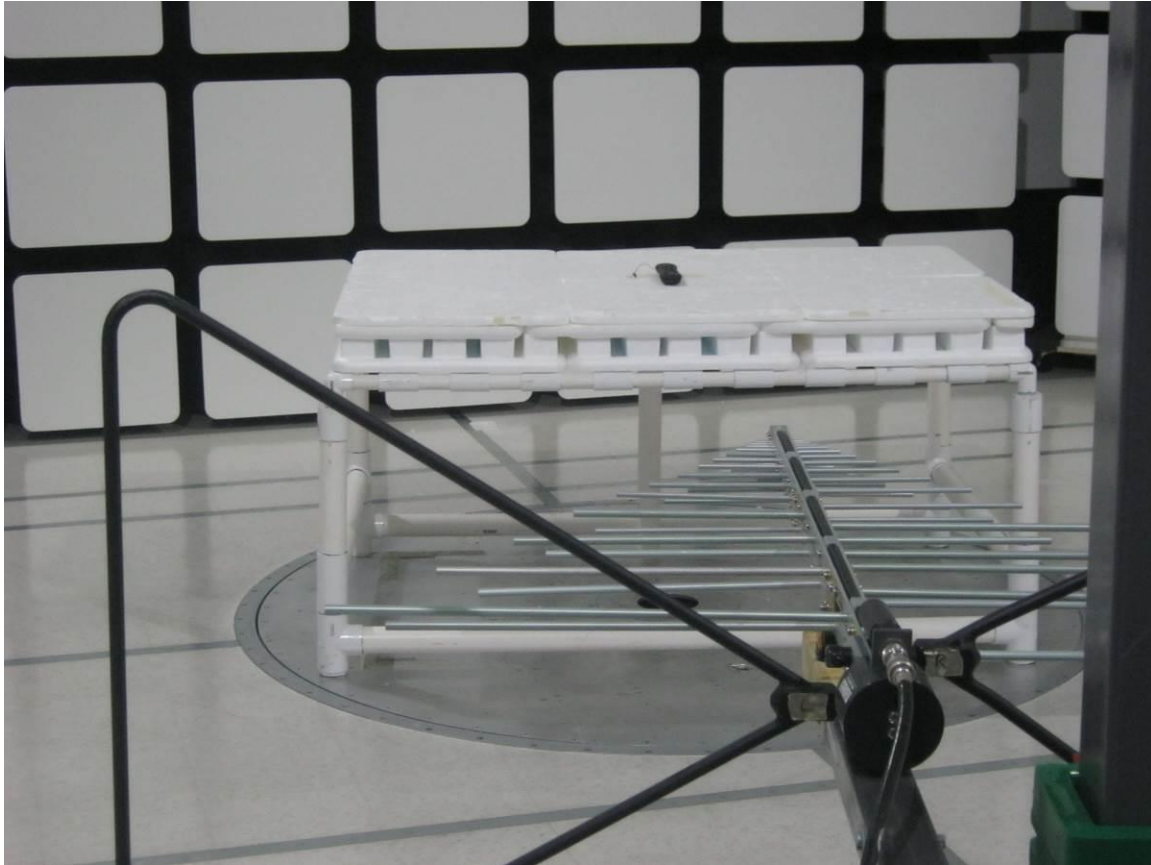
| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 39.76                  | 6.0                        | 38.77                  |
| 1.1                        | 40.46                  | 6.5                        | 38.46                  |
| 1.2                        | 40.05                  | 7.0                        | 38.27                  |
| 1.3                        | 40.58                  | 7.5                        | 38.77                  |
| 1.4                        | 39.50                  | 8.0                        | 39.25                  |
| 1.5                        | 39.92                  | 8.5                        | 38.63                  |
| 1.6                        | 40.40                  | 9.0                        | 39.58                  |
| 1.7                        | 40.10                  | 9.5                        | 42.12                  |
| 1.8                        | 40.49                  | 10.0                       | 38.53                  |
| 1.9                        | 38.86                  | 11.0                       | 40.21                  |
| 2.0                        | 41.53                  | 12.0                       | 41.15                  |
| 2.5                        | 41.05                  | 13.0                       | 40.51                  |
| 3.0                        | 40.29                  | 14.0                       | 40.32                  |
| 3.5                        | 40.82                  | 15.0                       | 39.47                  |
| 4.0                        | 40.88                  | 16.0                       | 39.88                  |
| 4.5                        | 41.37                  | 17.0                       | 39.79                  |
| 5.0                        | 40.73                  | 18.0                       | 40.61                  |
| 5.5                        | 39.05                  |                            |                        |

**COM-POWER AH-826****HORN ANTENNA****S/N: 71957**

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 18.0                       | 33.5                   | 22.5                       | 35.5                   |
| 18.5                       | 33.5                   | 23.0                       | 35.9                   |
| 19.0                       | 34.0                   | 23.5                       | 35.7                   |
| 19.5                       | 34.0                   | 24.0                       | 35.6                   |
| 20.0                       | 34.3                   | 24.5                       | 36.0                   |
| 20.5                       | 34.9                   | 25.0                       | 36.2                   |
| 21.0                       | 34.7                   | 25.5                       | 36.1                   |
| 21.5                       | 35.0                   | 26.0                       | 36.2                   |
| 22.0                       | 35.0                   | 26.5                       | 35.7                   |

**COM-POWER PA-840****MICROWAVE PREAMPLIFIER****S/N: 711013****CALIBRATION DATE: MAY 13, 2014**

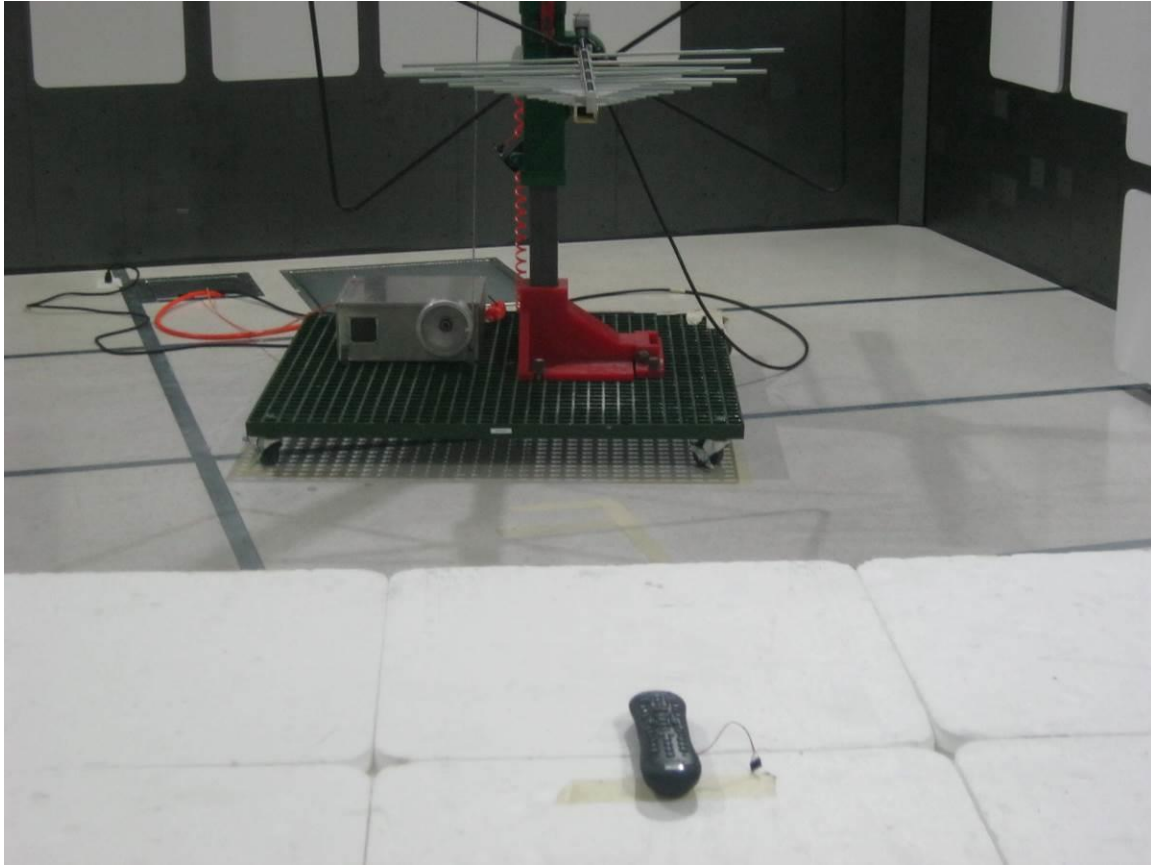
| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 18.0                       | 25.19                  | 31.0                       | 25.69                  |
| 19.0                       | 24.48                  | 31.5                       | 25.74                  |
| 20.0                       | 24.39                  | 32.0                       | 26.35                  |
| 21.0                       | 24.73                  | 32.5                       | 26.64                  |
| 22.0                       | 23.49                  | 33.0                       | 25.98                  |
| 23.0                       | 24.23                  | 33.5                       | 24.68                  |
| 24.0                       | 24.59                  | 34.0                       | 24.61                  |
| 25.0                       | 25.32                  | 34.5                       | 23.78                  |
| 26.0                       | 25.66                  | 35.0                       | 24.74                  |
| 26.5                       | 25.99                  | 35.5                       | 24.39                  |
| 27.0                       | 26.26                  | 36.0                       | 23.46                  |
| 27.5                       | 25.33                  | 36.5                       | 23.71                  |
| 28.0                       | 24.49                  | 37.0                       | 26.35                  |
| 28.5                       | 24.74                  | 37.5                       | 23.49                  |
| 29.0                       | 25.93                  | 38.0                       | 25.42                  |
| 29.5                       | 26.28                  | 38.5                       | 24.87                  |
| 30.0                       | 26.17                  | 39.0                       | 22.60                  |
| 30.5                       | 26.11                  | 39.5                       | 20.57                  |
|                            |                        | 40.0                       | 19.15                  |



**FRONT VIEW**

UNIVERSAL ELECTRONICS, INC.  
COMCAST XR2V3 GP565 2016  
MODEL: URC-4269BC2-X-R  
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**REAR VIEW**

UNIVERSAL ELECTRONICS, INC.  
COMCAST XR2V3 GP565 2016  
MODEL: URC-4269BC2-X-R  
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**FRONT VIEW**

UNIVERSAL ELECTRONICS, INC.  
COMCAST XR2V3 GP565 2016  
MODEL: URC-4269BC2-X-R

FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**REAR VIEW**

UNIVERSAL ELECTRONICS, INC.  
COMCAST XR2V3 GP565 2016  
MODEL: URC-4269BC2-X-R

FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**APPENDIX E**

***DATA SHEETS***



***RADIATED EMISSIONS  
DATA SHEETS  
ANTENNA 0***

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**X-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2425           | 85.93           | V            | 114.00 | -28.07 | Peak                  | 236.00                  | 144.17                 |              |
| 2425           | 65.93           | V            | 94.00  | -28.07 | Avg                   | 236.00                  | 144.17                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4850           | 65.14           | V            | 74.00  | -8.86  | Peak                  | 355.00                  | 137.25                 |              |
| 4850           | 45.14           | V            | 54.00  | -8.86  | Avg                   | 355.00                  | 137.25                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7275           | 73.69           | V            | 74.00  | -0.31  | Peak                  | 57.00                   | 106.25                 |              |
| 7275           | 53.69           | V            | 54.00  | -0.31  | Avg                   | 57.00                   | 106.25                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9700           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12125          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14550          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions |
| 16975          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19400          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions |
| 21825          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24250          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**X-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments                 |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------------------|
| 2425           | 98.96           | H            | 114.00 | -15.04 | Peak                  | 197.50                  | 144.59                 |                          |
| 2425           | 78.96           | H            | 94.00  | -15.04 | Avg                   | 197.50                  | 144.59                 |                          |
| 4850           | 60.32           | H            | 74.00  | -13.68 | Peak                  | 62.25                   | 118.80                 |                          |
| 4850           | 40.32           | H            | 54.00  | -13.68 | Avg                   | 62.25                   | 118.80                 |                          |
| 7275           | 73.59           | H            | 74.00  | -0.41  | Peak                  | 140.50                  | 120.23                 |                          |
| 7275           | 53.59           | H            | 54.00  | -0.41  | Avg                   | 140.50                  | 120.23                 |                          |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**Y-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2425           | 95.84           | V            | 114.00 | -18.17 | Peak                  | 257.50                  | 160.41                 |              |
| 2425           | 75.84           | V            | 94.00  | -18.17 | Avg                   | 257.50                  | 160.41                 |              |
| 4850           | 57.49           | V            | 74.00  | -16.51 | Peak                  | 282.00                  | 142.86                 |              |
| 4850           | 37.49           | V            | 54.00  | -16.51 | Avg                   | 282.00                  | 142.86                 |              |
| 7275           | 73.26           | V            | 74.00  | -0.74  | Peak                  | 335.00                  | 141.25                 |              |
| 7275           | 53.26           | V            | 54.00  | -0.74  | Avg                   | 335.00                  | 141.25                 |              |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9700           |                 |              |        |        |                       |                         |                        | Detected     |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12125          |                 |              |        |        |                       |                         |                        | Detected     |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14550          |                 |              |        |        |                       |                         |                        | Detected     |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions |
| 16975          |                 |              |        |        |                       |                         |                        | Detected     |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19400          |                 |              |        |        |                       |                         |                        | Detected     |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions |
| 21825          |                 |              |        |        |                       |                         |                        | Detected     |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24250          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**Y-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2425           | 97.25           | H            | 114.00 | -16.75 | Peak                  | 356.25                  | 170.08                 |              |
| 2425           | 77.25           | H            | 94.00  | -16.75 | Avg                   | 356.25                  | 170.08                 |              |
| 4850           | 60.15           | H            | 74.00  | -13.85 | Peak                  | 214.50                  | 157.73                 |              |
| 4850           | 40.15           | H            | 54.00  | -13.85 | Avg                   | 214.50                  | 157.73                 |              |
| 7275           | 72.80           | H            | 74.00  | -1.21  | Peak                  | 134.50                  | 146.38                 |              |
| 7275           | 52.80           | H            | 54.00  | -1.21  | Avg                   | 134.50                  | 146.38                 |              |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9700           |                 |              |        |        |                       |                         |                        | Detected     |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12125          |                 |              |        |        |                       |                         |                        | Detected     |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14550          |                 |              |        |        |                       |                         |                        | Detected     |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions |
| 16975          |                 |              |        |        |                       |                         |                        | Detected     |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19400          |                 |              |        |        |                       |                         |                        | Detected     |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions |
| 21825          |                 |              |        |        |                       |                         |                        | Detected     |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24250          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**Z-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2425           | 87.60           | V            | 114.00 | -26.40 | Peak                  | 353.25                  | 168.53                 |              |
| 2425           | 67.60           | V            | 94.00  | -26.40 | Avg                   | 353.25                  | 168.53                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4850           | 64.08           | V            | 74.00  | -9.92  | Peak                  | 2.00                    | 132.00                 |              |
| 4850           | 44.08           | V            | 54.00  | -9.92  | Avg                   | 2.00                    | 132.00                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7275           | 71.68           | V            | 74.00  | -2.32  | Peak                  | 146.25                  | 177.61                 |              |
| 7275           | 51.68           | V            | 54.00  | -2.32  | Avg                   | 146.25                  | 177.61                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9700           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12125          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14550          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions |
| 16975          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19400          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions |
| 21825          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24250          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**Z-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2425           | 98.60           | H            | 114.00 | -15.40 | Peak                  | 182.50                  | 215.28                 |              |
| 2425           | 78.60           | H            | 94.00  | -15.40 | Avg                   | 182.50                  | 215.28                 |              |
| 4850           | 62.14           | H            | 74.00  | -11.86 | Peak                  | 202.50                  | 162.38                 |              |
| 4850           | 42.14           | H            | 54.00  | -11.86 | Avg                   | 202.50                  | 162.38                 |              |
| 7275           | 73.15           | H            | 74.00  | -0.85  | Peak                  | 169.25                  | 122.14                 |              |
| 7275           | 53.15           | H            | 54.00  | -0.85  | Avg                   | 169.25                  | 122.14                 |              |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9700           |                 |              |        |        |                       |                         |                        | Detected     |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12125          |                 |              |        |        |                       |                         |                        | Detected     |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14550          |                 |              |        |        |                       |                         |                        | Detected     |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions |
| 16975          |                 |              |        |        |                       |                         |                        | Detected     |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19400          |                 |              |        |        |                       |                         |                        | Detected     |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions |
| 21825          |                 |              |        |        |                       |                         |                        | Detected     |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24250          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0  
**Middle Channel**  
**X-Axis - Vertical**

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 85.35           | V            | 114.00 | -28.65 | Peak                  | 278.25                  | 180.71                 |              |
| 2450           | 65.35           | V            | 94.00  | -28.65 | Avg                   | 278.25                  | 180.71                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4900           | 57.06           | V            | 74.00  | -16.94 | Peak                  | 146.75                  | 101.25                 |              |
| 4900           | 37.06           | V            | 54.00  | -16.94 | Avg                   | 146.75                  | 101.25                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7350           | 66.72           | V            | 74.00  | -7.28  | Peak                  | 1.25                    | 105.25                 |              |
| 7350           | 46.72           | V            | 54.00  | -7.28  | Avg                   | 1.25                    | 105.25                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto**Middle Channel**  
**X-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 97.04           | H            | 114.00 | -16.96 | Peak                  | 63.50                   | 166.80                 |              |
| 2450           | 77.04           | H            | 94.00  | -16.96 | Avg                   | 63.50                   | 166.80                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4900           | 60.90           | H            | 74.00  | -13.10 | Peak                  | 177.50                  | 147.28                 |              |
| 4900           | 40.90           | H            | 54.00  | -13.10 | Avg                   | 177.50                  | 147.28                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7350           | 73.76           | H            | 74.00  | -0.24  | Peak                  | 276.75                  | 132.05                 |              |
| 7350           | 53.76           | H            | 54.00  | -0.24  | Avg                   | 276.75                  | 132.05                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0  
**Middle Channel**  
**Y-Axis - Vertical**

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 93.15           | V            | 114.00 | -20.85 | Peak                  | 24.75                   | 152.77                 |              |
| 2450           | 73.15           | V            | 94.00  | -20.85 | Avg                   | 24.75                   | 152.77                 |              |
| 4900           | 61.14           | V            | 74.00  | -12.86 | Peak                  | 342.25                  | 210.38                 |              |
| 4900           | 41.14           | V            | 54.00  | -12.86 | Avg                   | 342.25                  | 210.38                 |              |
| 7350           | 72.56           | V            | 74.00  | -1.44  | Peak                  | 45.50                   | 199.40                 |              |
| 7350           | 52.56           | V            | 54.00  | -1.44  | Avg                   | 45.50                   | 199.40                 |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Middle Channel**  
**Y-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 95.73           | H            | 114.00 | -18.27 | Peak                  | 108.00                  | 154.56                 |              |
| 2450           | 75.73           | H            | 94.00  | -18.27 | Avg                   | 108.00                  | 154.56                 |              |
| 4900           | 58.85           | H            | 74.00  | -15.15 | Peak                  | 113.00                  | 128.47                 |              |
| 4900           | 38.85           | H            | 54.00  | -15.15 | Avg                   | 113.00                  | 128.47                 |              |
| 7350           | 73.50           | H            | 74.00  | -0.50  | Peak                  | 156.00                  | 132.08                 |              |
| 7350           | 53.50           | H            | 54.00  | -0.50  | Avg                   | 156.00                  | 132.05                 |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

Note: Antenna 0

**Middle Channel**  
**Z-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 96.16           | V            | 114.00 | -17.84 | Peak                  | 186.50                  | 202.20                 |              |
| 2450           | 76.16           | V            | 94.00  | -17.84 | Avg                   | 186.50                  | 202.20                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4900           | 58.89           | V            | 74.00  | -15.11 | Peak                  | 200.50                  | 202.08                 |              |
| 4900           | 38.89           | V            | 54.00  | -15.11 | Avg                   | 200.50                  | 202.08                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7350           | 73.10           | V            | 74.00  | -0.90  | Peak                  | 206.75                  | 199.46                 |              |
| 7350           | 53.10           | V            | 54.00  | -0.90  | Avg                   | 206.75                  | 199.46                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0  
**Middle Channel**  
**Z-Axis - Horizontal**

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 90.59           | H            | 114.00 | -23.41 | Peak                  | 234.50                  | 154.50                 |              |
| 2450           | 70.59           | H            | 94.00  | -23.41 | Avg                   | 234.50                  | 154.50                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4900           | 55.55           | H            | 74.00  | -18.45 | Peak                  | 13.25                   | 106.74                 |              |
| 4900           | 35.55           | H            | 54.00  | -18.45 | Avg                   | 13.25                   | 106.74                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7350           | 70.55           | H            | 74.00  | -3.45  | Peak                  | 15.25                   | 107.75                 |              |
| 7350           | 50.55           | H            | 54.00  | -3.45  | Avg                   | 15.25                   | 107.75                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**X-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 88.74           | V            | 114.00 | -25.26 | Peak                  | 289.25                  | 193.01                 |              |
| 2475           | 68.74           | V            | 94.00  | -25.26 | Avg                   | 289.25                  | 193.01                 |              |
| 4950           | 61.12           | V            | 74.00  | -12.89 | Peak                  | 178.00                  | 196.35                 |              |
| 4950           | 41.12           | V            | 54.00  | -12.89 | Avg                   | 178.00                  | 196.35                 |              |
| 7425           | 73.25           | V            | 74.00  | -0.75  | Peak                  | 236.25                  | 197.25                 |              |
| 7425           | 53.25           | V            | 54.00  | -0.75  | Avg                   | 236.25                  | 197.25                 |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**X-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 96.68           | H            | 114.00 | -17.32 | Peak                  | 364.75                  | 213.07                 |              |
| 2475           | 76.68           | H            | 94.00  | -17.32 | Avg                   | 364.75                  | 213.07                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4950           | 60.91           | H            | 74.00  | -13.09 | Peak                  | 103.00                  | 152.71                 |              |
| 4950           | 40.91           | H            | 54.00  | -13.09 | Avg                   | 103.00                  | 152.71                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7425           | 73.01           | H            | 74.00  | -0.99  | Peak                  | 328.50                  | 135.64                 |              |
| 7425           | 53.01           | H            | 54.00  | -0.99  | Avg                   | 328.50                  | 135.64                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**Y-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 93.73           | V            | 114.00 | -20.27 | Peak                  | 110.75                  | 264.05                 |              |
| 2475           | 73.73           | V            | 94.00  | -20.27 | Avg                   | 110.75                  | 264.05                 |              |
| 4950           | 61.16           | V            | 74.00  | -12.84 | Peak                  | 112.25                  | 199.76                 |              |
| 4950           | 41.16           | V            | 54.00  | -12.84 | Avg                   | 112.25                  | 199.76                 |              |
| 7425           | 72.45           | V            | 74.00  | -1.55  | Peak                  | 124.25                  | 182.08                 |              |
| 7425           | 52.45           | V            | 54.00  | -1.55  | Avg                   | 124.25                  | 182.08                 |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**Y-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 94.87           | H            | 114.00 | -19.13 | Peak                  | 204.75                  | 131.10                 |              |
| 2475           | 74.87           | H            | 94.00  | -19.13 | Avg                   | 204.75                  | 131.10                 |              |
| 4950           | 58.14           | H            | 74.00  | -15.87 | Peak                  | 53.50                   | 177.55                 |              |
| 4950           | 38.14           | H            | 54.00  | -15.87 | Avg                   | 53.50                   | 177.55                 |              |
| 7425           | 68.75           | H            | 74.00  | -5.26  | Peak                  | 32.75                   | 176.83                 |              |
| 7425           | 48.75           | H            | 54.00  | -5.26  | Avg                   | 32.75                   | 176.83                 |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**Z-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 96.36           | V            | 114.00 | -17.64 | Peak                  | 139.50                  | 152.83                 |              |
| 2475           | 76.36           | V            | 94.00  | -17.64 | Avg                   | 139.50                  | 152.83                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4950           | 59.81           | V            | 74.00  | -14.19 | Peak                  | 166.00                  | 123.46                 |              |
| 4950           | 39.81           | V            | 54.00  | -14.19 | Avg                   | 166.00                  | 123.46                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7425           | 71.67           | V            | 74.00  | -2.33  | Peak                  | 170.25                  | 119.76                 |              |
| 7425           | 51.67           | V            | 54.00  | -2.33  | Avg                   | 170.25                  | 119.76                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

Date: 01/21/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**Z-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 95.45           | H            | 114.00 | -18.55 | Peak                  | 239.00                  | 143.76                 |              |
| 2475           | 75.45           | H            | 94.00  | -18.55 | Avg                   | 239.00                  | 143.76                 |              |
| 4950           | 61.00           | H            | 74.00  | -13.00 | Peak                  | 36.25                   | 160.89                 |              |
| 4950           | 41.00           | H            | 54.00  | -13.00 | Avg                   | 36.25                   | 160.89                 |              |
| 7425           | 73.33           | H            | 74.00  | -0.67  | Peak                  | 134.75                  | 149.25                 |              |
| 7425           | 53.33           | H            | 54.00  | -0.67  | Avg                   | 134.75                  | 149.25                 |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |

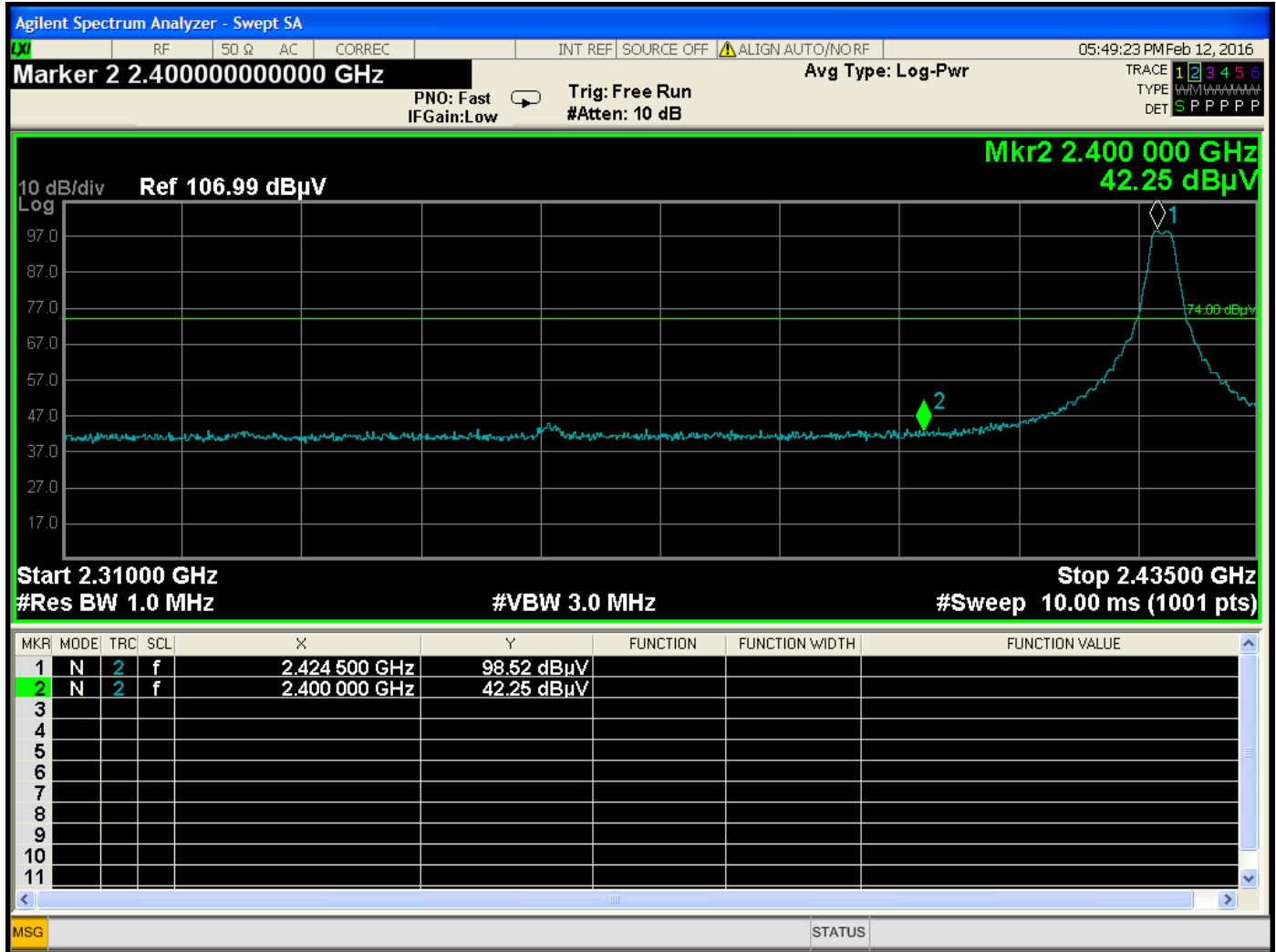
**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 0

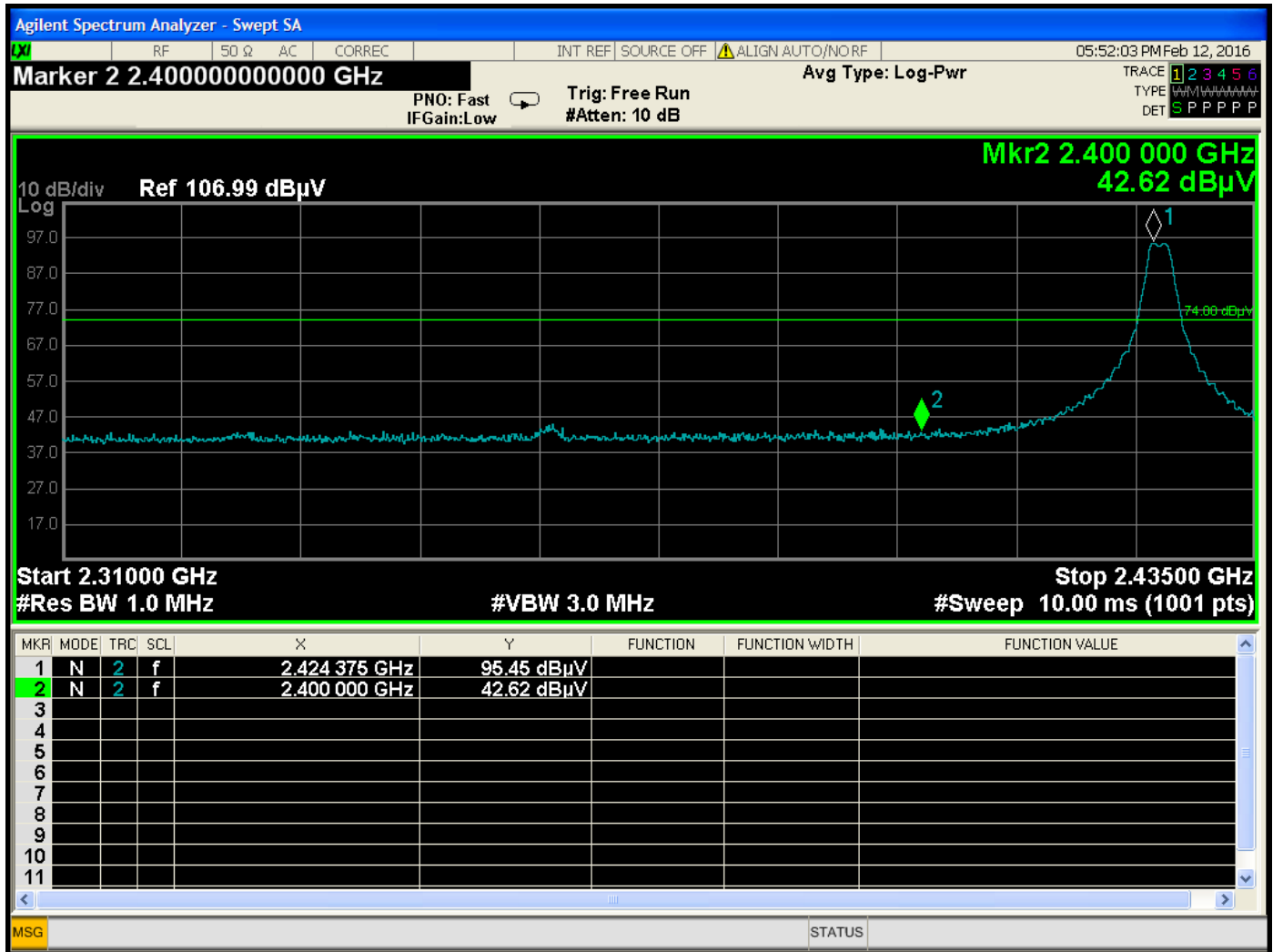
Date: 02/12/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Band Edges**

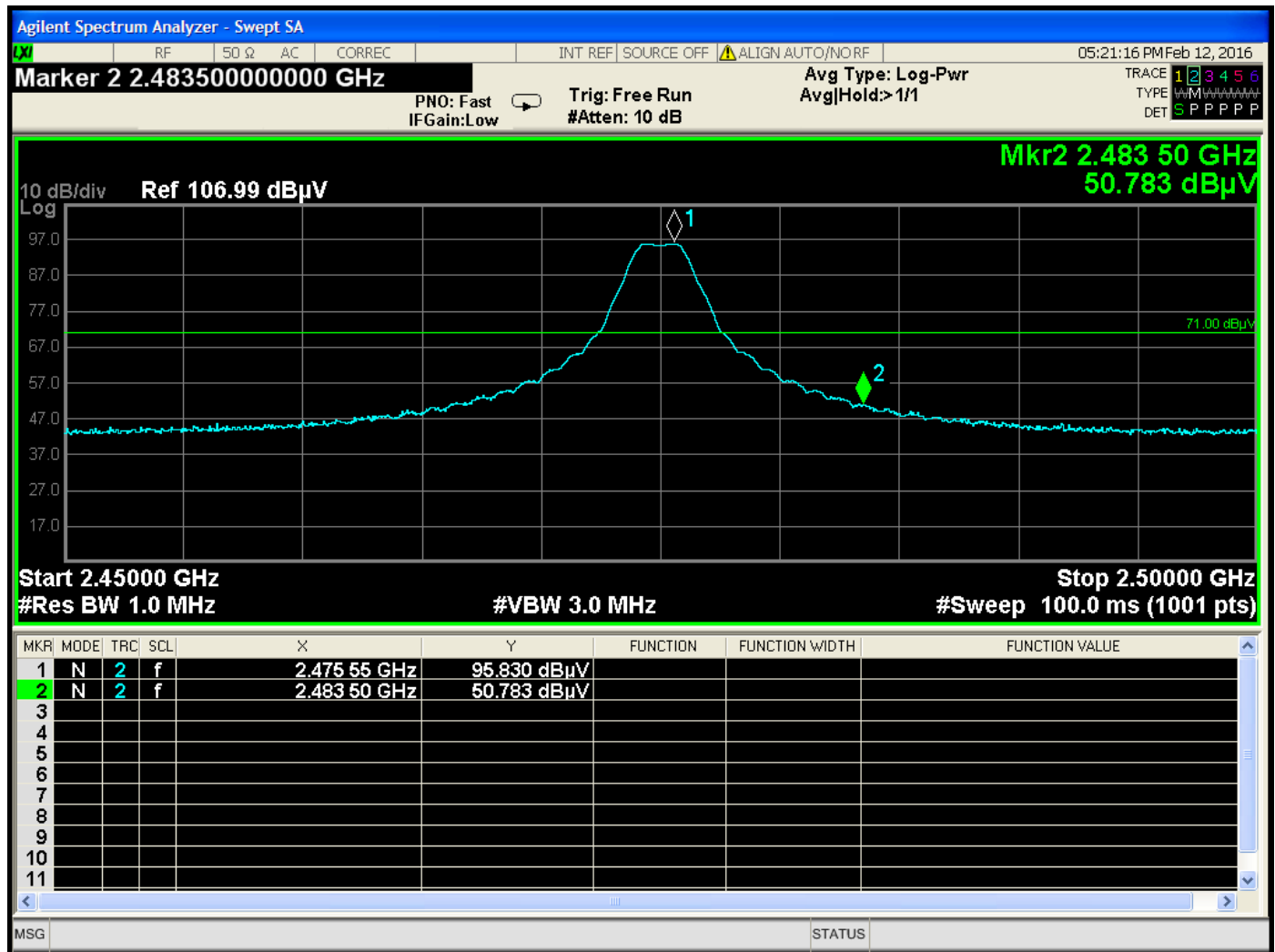
| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments                  |
|----------------|-----------------|--------------|--------|--------|-----------------------|-----------------------|-------------------------|---------------------------|
| 2425           | 95.45           | V            | 114.00 | -18.55 | Peak                  | 70.25                 | 174.05                  | Fundamental               |
| 2425           | 75.45           | V            | 94.00  | -18.55 | Avg                   | 70.25                 | 174.05                  | of Low Channel            |
| 2400           | 42.62           | V            | 74.00  | -31.38 | Peak                  | 70.25                 | 174.05                  | Band Edge of Low Channel  |
| 2400           | 22.62           | V            | 54.00  | -31.38 | Avg                   | 70.25                 | 174.05                  | Y-Axis Worst Case         |
| 2425           | 98.52           | H            | 114.00 | -15.48 | Peak                  | 87.25                 | 149.58                  | Fundamental of            |
| 2425           | 78.52           | H            | 94.00  | -15.48 | Avg                   | 87.25                 | 149.58                  | Low Channel               |
| 2400           | 42.25           | H            | 74.00  | -31.75 | Peak                  | 87.25                 | 149.58                  | Band Edge of Low Channel  |
| 2400           | 22.25           | H            | 54.00  | -31.75 | Avg                   | 87.25                 | 149.58                  | X-Axis Worst Case         |
| 2475           | 95.83           | H            | 114.00 | -18.17 | Peak                  | 165.50                | 185.04                  | Fundamental of            |
| 2475           | 75.83           | H            | 94.00  | -18.17 | Avg                   | 165.50                | 185.04                  | High Channel              |
| 2483.5         | 50.78           | H            | 74.00  | -23.22 | Peak                  | 165.50                | 185.04                  | Band Edge of High Channel |
| 2483.5         | 30.78           | H            | 54.00  | -23.22 | Avg                   | 165.50                | 185.04                  | X-Axis Worst Case         |
| 2475           | 93.33           | V            | 114.00 | -20.67 | Peak                  | 148.75                | 178.23                  | Fundamental of            |
| 2475           | 73.33           | V            | 94.00  | -20.67 | Avg                   | 148.75                | 178.23                  | High Channel              |
| 2483.5         | 48.23           | V            | 74.00  | -25.77 | Peak                  | 148.75                | 178.23                  | Band Edge of High Channel |
| 2483.5         | 28.23           | V            | 54.00  | -25.77 | Avg                   | 148.75                | 178.23                  | Z-Axis Worst Case         |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |



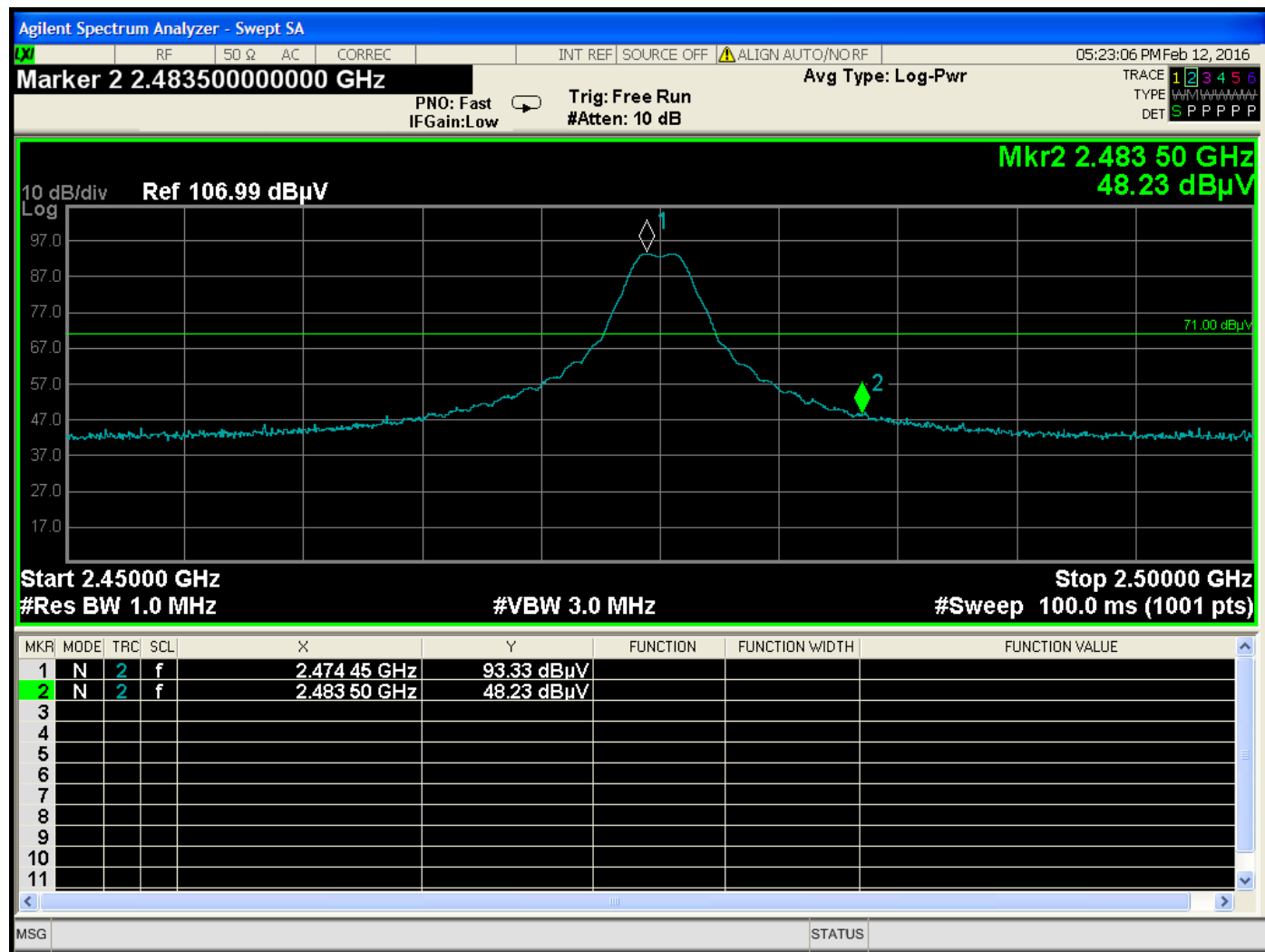
Low Band Edge – Antenna 0 – Horizontal – X-axis



Low Band Edge – Antenna 0 – Vertical – Y-axis



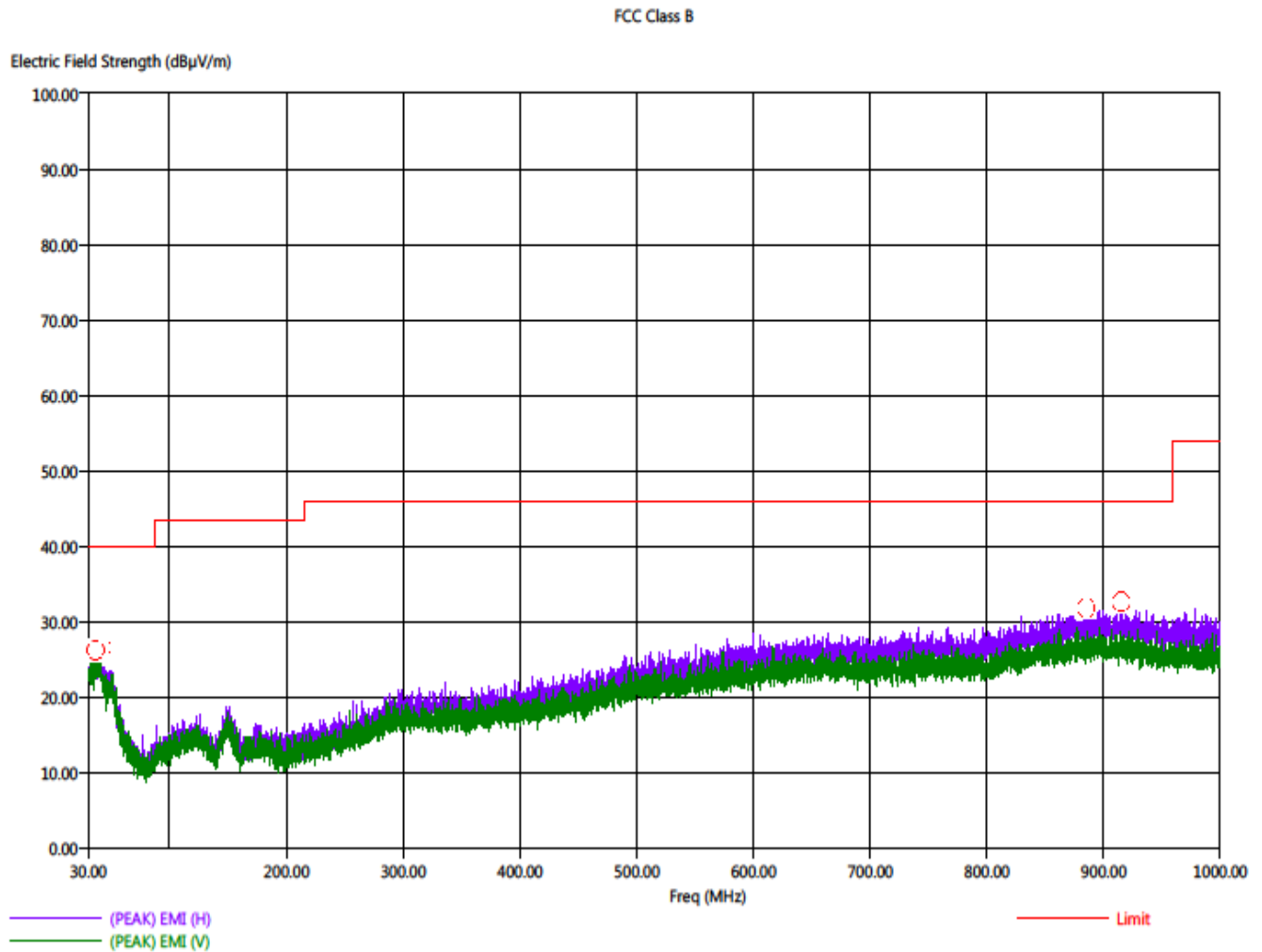
High Band Edge – Antenna 0 – Horizontal – X-axis



High Band Edge – Antenna 0 – Vertical – Z-axis

Title: Pre-Scan - FCC Class B  
File: Aqilent - Radiated Pre-Scan 30-1000Mhz - FCC Class B-ant0.set  
Operator: Michael Christensen  
EUT Type: Comcast XR2v3 GP565 2016  
EUT Condition: Continuously Transmitting, Antenna 0, X-axis worst case  
Comments: Customer: Universal Electronics, Inc.  
M/N: URC-4269BC2-X-R

1/29/2016 3:05:48 PM  
Sequence: Preliminary Scan



No additional spurious emissions were found between 10 kHz – 30 MHz and 1 GHz – 25 GHz

Title: Radiated Final - 30-1000 MHz - FCC Class B  
 File: Aqilent - Radiated Final Scan 30-1000Mhz - FCC Class B.set  
 Operator: Michael Christensen  
 EUT Type: Comcast XR2v3 GP565 2016  
 EUT Condition: Continuously Transmitting, Antenna 0, X-axis worst case  
 Comments: Customer: Universal Electronics, Inc.  
 M/N: URC-4269BC2-X-R

1/29/2016 3:39:14 PM  
 Sequence: Final Measurements

FCC Class B

| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dBμV/m) | (OP) EMI<br>(dBμV/m) | (PEAK) Margin<br>(dB) | (OP) Margin<br>(dB) | Limit<br>(dBμV/m) | Twr Ht<br>(cm) | Ttbl Aql<br>(dec) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|----------------|-------------------|
| 36.50         | H   | 26.82                  | 22.61                | -13.18                | -17.39              | 40.00             | 304.56         | 103.00            |
| 36.50         | V   | 26.73                  | 22.58                | -13.27                | -17.42              | 40.00             | 320.26         | 117.50            |
| 38.20         | H   | 27.13                  | 22.94                | -12.87                | -17.06              | 40.00             | 384.62         | 151.25            |
| 41.90         | H   | 26.59                  | 21.53                | -13.41                | -18.47              | 40.00             | 143.43         | 326.00            |
| 885.30        | H   | 32.97                  | 27.56                | -13.03                | -18.44              | 46.00             | 143.43         | 89.25             |
| 915.30        | H   | 31.76                  | 27.54                | -14.24                | -18.46              | 46.00             | 145.16         | 112.75            |



***RADIATED EMISSIONS  
DATA SHEETS  
ANTENNA 1***

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**X-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2425           | 83.20           | V            | 114.00 | -30.80 | Peak                  | 53.25                   | 260.83                 |              |
| 2425           | 63.20           | V            | 94.00  | -30.80 | Avg                   | 53.25                   | 260.83                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4850           | 53.34           | V            | 74.00  | -20.66 | Peak                  | 271.25                  | 230.92                 |              |
| 4850           | 33.34           | V            | 54.00  | -20.66 | Avg                   | 271.25                  | 230.92                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7275           | 55.27           | V            | 74.00  | -18.73 | Peak                  | 293.75                  | 231.92                 |              |
| 7275           | 35.27           | V            | 54.00  | -18.73 | Avg                   | 293.75                  | 231.92                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9700           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12125          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14550          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions |
| 16975          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19400          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions |
| 21825          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24250          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**X-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments                 |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------------------|
| 2425           | 95.13           | H            | 114.00 | -18.87 | Peak                  | 14.75                   | 161.43                 |                          |
| 2425           | 75.13           | H            | 94.00  | -18.87 | Avg                   | 14.75                   | 161.43                 |                          |
| 4850           | 55.13           | H            | 74.00  | -18.87 | Peak                  | 305.75                  | 180.65                 |                          |
| 4850           | 35.13           | H            | 54.00  | -18.87 | Avg                   | 305.75                  | 180.65                 |                          |
| 7275           | 71.45           | H            | 74.00  | -2.55  | Peak                  | 204.25                  | 117.85                 |                          |
| 7275           | 51.45           | H            | 54.00  | -2.55  | Avg                   | 204.25                  | 117.85                 |                          |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**Y-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2425           | 88.14           | V            | 114.00 | -25.86 | Peak                  | 283.75                  | 209.73                 |              |
| 2425           | 68.14           | V            | 94.00  | -25.86 | Avg                   | 283.75                  | 209.73                 |              |
| 4850           | 54.97           | V            | 74.00  | -19.03 | Peak                  | 215.75                  | 214.98                 |              |
| 4850           | 34.97           | V            | 54.00  | -19.03 | Avg                   | 215.75                  | 214.98                 |              |
| 7275           | 69.46           | V            | 74.00  | -4.54  | Peak                  | 118.75                  | 220.05                 |              |
| 7275           | 49.46           | V            | 54.00  | -4.54  | Avg                   | 118.75                  | 220.05                 |              |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9700           |                 |              |        |        |                       |                         |                        | Detected     |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12125          |                 |              |        |        |                       |                         |                        | Detected     |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14550          |                 |              |        |        |                       |                         |                        | Detected     |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions |
| 16975          |                 |              |        |        |                       |                         |                        | Detected     |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19400          |                 |              |        |        |                       |                         |                        | Detected     |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions |
| 21825          |                 |              |        |        |                       |                         |                        | Detected     |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24250          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**Y-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2425           | 92.35           | H            | 114.00 | -21.66 | Peak                  | 364.50                  | 165.19                 |              |
| 2425           | 72.35           | H            | 94.00  | -21.66 | Avg                   | 364.50                  | 165.19                 |              |
| 4850           | 55.37           | H            | 74.00  | -18.63 | Peak                  | 57.25                   | 130.62                 |              |
| 4850           | 35.37           | H            | 54.00  | -18.63 | Avg                   | 57.25                   | 130.62                 |              |
| 7275           | 69.37           | H            | 74.00  | -4.63  | Peak                  | 293.25                  | 147.22                 |              |
| 7275           | 49.37           | H            | 54.00  | -4.63  | Avg                   | 293.25                  | 147.22                 |              |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9700           |                 |              |        |        |                       |                         |                        | Detected     |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12125          |                 |              |        |        |                       |                         |                        | Detected     |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14550          |                 |              |        |        |                       |                         |                        | Detected     |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions |
| 16975          |                 |              |        |        |                       |                         |                        | Detected     |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19400          |                 |              |        |        |                       |                         |                        | Detected     |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions |
| 21825          |                 |              |        |        |                       |                         |                        | Detected     |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24250          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**Z-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments                 |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------------------|
| 2425           | 94.74           | V            | 114.00 | -19.26 | Peak                  | 100.50                  | 166.44                 |                          |
| 2425           | 74.74           | V            | 94.00  | -19.26 | Avg                   | 100.50                  | 166.44                 |                          |
| 4850           | 55.60           | V            | 74.00  | -18.40 | Peak                  | 323.75                  | 229.67                 |                          |
| 4850           | 35.60           | V            | 54.00  | -18.40 | Avg                   | 323.75                  | 229.67                 |                          |
| 7275           | 71.41           | V            | 74.00  | -2.59  | Peak                  | 271.00                  | 231.76                 |                          |
| 7275           | 51.41           | V            | 54.00  | -2.59  | Avg                   | 271.00                  | 231.76                 |                          |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Low Channel**  
**Z-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments                 |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------------------|
| 2425           | 82.51           | H            | 114.00 | -31.49 | Peak                  | 202.00                  | 191.34                 |                          |
| 2425           | 62.51           | H            | 94.00  | -31.49 | Avg                   | 202.00                  | 191.34                 |                          |
| 4850           | 56.20           | H            | 74.00  | -17.80 | Peak                  | 91.75                   | 171.82                 |                          |
| 4850           | 36.20           | H            | 54.00  | -17.80 | Avg                   | 91.75                   | 171.82                 |                          |
| 7275           | 68.53           | H            | 74.00  | -5.47  | Peak                  | 192.75                  | 138.50                 |                          |
| 7275           | 48.53           | H            | 54.00  | -5.47  | Avg                   | 192.75                  | 138.50                 |                          |
| 9700           |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 12125          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 14550          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 16975          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 19400          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 21825          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |
| 24250          |                 |              |        |        |                       |                         |                        | No Emissions<br>Detected |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1  
**Middle Channel**  
**X-Axis - Vertical**

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 82.76           | V            | 114.00 | -31.24 | Peak                  | 111.00                  | 218.50                 |              |
| 2450           | 62.76           | V            | 94.00  | -31.24 | Avg                   | 111.00                  | 218.50                 |              |
| 4900           | 60.23           | V            | 74.00  | -13.77 | Peak                  | 5.00                    | 143.76                 |              |
| 4900           | 40.23           | V            | 54.00  | -13.77 | Avg                   | 5.00                    | 173.76                 |              |
| 7350           | 71.04           | V            | 74.00  | -2.97  | Peak                  | 62.50                   | 140.23                 |              |
| 7350           | 51.04           | V            | 54.00  | -2.97  | Avg                   | 62.50                   | 140.23                 |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Middle Channel**  
**X-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 94.66           | H            | 114.00 | -19.34 | Peak                  | 5.00                    | 153.07                 |              |
| 2450           | 74.66           | H            | 94.00  | -19.34 | Avg                   | 5.00                    | 153.07                 |              |
| 4900           | 58.89           | H            | 74.00  | -15.11 | Peak                  | 355.00                  | 139.52                 |              |
| 4900           | 38.89           | H            | 54.00  | -15.11 | Avg                   | 355.00                  | 139.52                 |              |
| 7350           | 72.02           | H            | 74.00  | -1.98  | Peak                  | 162.00                  | 139.16                 |              |
| 7350           | 52.02           | H            | 54.00  | -1.98  | Avg                   | 162.00                  | 139.16                 |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1  
**Middle Channel**  
**Y-Axis - Vertical**

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 86.83           | V            | 114.00 | -27.17 | Peak                  | 268.00                  | 148.35                 |              |
| 2450           | 66.83           | V            | 94.00  | -27.17 | Avg                   | 268.00                  | 148.35                 |              |
| 4900           | 54.90           | V            | 74.00  | -19.10 | Peak                  | 252.25                  | 168.47                 |              |
| 4900           | 34.90           | V            | 54.00  | -19.10 | Avg                   | 252.25                  | 168.47                 |              |
| 7350           | 69.95           | V            | 74.00  | -4.06  | Peak                  | 355.00                  | 145.47                 |              |
| 7350           | 49.95           | V            | 54.00  | -4.06  | Avg                   | 355.00                  | 145.47                 |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Middle Channel**  
**Y-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 92.28           | H            | 114.00 | -21.72 | Peak                  | 357.50                  | 222.14                 |              |
| 2450           | 72.28           | H            | 94.00  | -21.72 | Avg                   | 357.50                  | 222.14                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4900           | 55.31           | H            | 74.00  | -18.69 | Peak                  | 7.25                    | 220.65                 |              |
| 4900           | 35.31           | H            | 54.00  | -18.69 | Avg                   | 7.25                    | 220.65                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7350           | 68.41           | H            | 74.00  | -5.59  | Peak                  | 111.25                  | 220.41                 |              |
| 7350           | 48.41           | H            | 54.00  | -5.59  | Avg                   | 111.25                  | 220.41                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1  
**Middle Channel**  
**Z-Axis - Vertical**

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 93.56           | V            | 114.00 | -20.45 | Peak                  | 17.75                   | 130.68                 |              |
| 2450           | 73.56           | V            | 94.00  | -20.45 | Avg                   | 17.75                   | 130.68                 |              |
| 4900           | 57.51           | V            | 74.00  | -16.49 | Peak                  | 149.50                  | 127.70                 |              |
| 4900           | 37.51           | V            | 54.00  | -16.49 | Avg                   | 149.50                  | 127.70                 |              |
| 7350           | 71.41           | V            | 74.00  | -2.59  | Peak                  | 255.50                  | 116.59                 |              |
| 7350           | 51.41           | V            | 54.00  | -2.59  | Avg                   | 255.50                  | 116.59                 |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Middle Channel**  
**Z-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2450           | 84.38           | H            | 114.00 | -29.62 | Peak                  | 348.75                  | 164.11                 |              |
| 2450           | 64.38           | H            | 94.00  | -29.62 | Avg                   | 348.75                  | 164.11                 |              |
| 4900           | 60.13           | H            | 74.00  | -13.87 | Peak                  | 94.25                   | 163.64                 |              |
| 4900           | 40.13           | H            | 54.00  | -13.87 | Avg                   | 94.25                   | 163.64                 |              |
| 7350           | 70.23           | H            | 74.00  | -3.77  | Peak                  | 345.50                  | 139.28                 |              |
| 7350           | 50.23           | H            | 54.00  | -3.77  | Avg                   | 345.50                  | 139.28                 |              |
| 9800           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9800           |                 |              |        |        |                       |                         |                        | Detected     |
| 12250          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12250          |                 |              |        |        |                       |                         |                        | Detected     |
| 14700          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14700          |                 |              |        |        |                       |                         |                        | Detected     |
| 17150          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17150          |                 |              |        |        |                       |                         |                        | Detected     |
| 19600          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19600          |                 |              |        |        |                       |                         |                        | Detected     |
| 22050          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22050          |                 |              |        |        |                       |                         |                        | Detected     |
| 24500          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24500          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**X-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 81.11           | V            | 114.00 | -32.89 | Peak                  | 345.00                  | 194.20                 |              |
| 2475           | 61.11           | V            | 94.00  | -32.89 | Avg                   | 345.00                  | 194.20                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4950           | 64.13           | V            | 74.00  | -9.88  | Peak                  | 5.25                    | 121.91                 |              |
| 4950           | 44.13           | V            | 54.00  | -9.88  | Avg                   | 5.25                    | 121.91                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7425           | 70.99           | V            | 74.00  | -3.01  | Peak                  | 308.75                  | 109.61                 |              |
| 7425           | 50.99           | V            | 54.00  | -3.01  | Avg                   | 308.75                  | 109.61                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**X-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 93.91           | H            | 114.00 | -20.09 | Peak                  | 5.00                    | 150.50                 |              |
| 2475           | 73.91           | H            | 94.00  | -20.09 | Avg                   | 5.00                    | 150.00                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4950           | 61.49           | H            | 74.00  | -12.52 | Peak                  | 355.00                  | 204.59                 |              |
| 4950           | 41.49           | H            | 54.00  | -12.52 | Avg                   | 355.00                  | 204.59                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7425           | 72.30           | H            | 74.00  | -1.70  | Peak                  | 168.00                  | 151.34                 |              |
| 7425           | 52.30           | H            | 54.00  | -1.70  | Avg                   | 168.00                  | 151.34                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**Y-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 85.81           | V            | 114.00 | -28.19 | Peak                  | 5.25                    | 256.65                 |              |
| 2475           | 65.81           | V            | 94.00  | -28.19 | Avg                   | 5.25                    | 256.65                 |              |
| 4950           | 58.15           | V            | 74.00  | -15.85 | Peak                  | 78.50                   | 243.94                 |              |
| 4950           | 38.15           | V            | 54.00  | -15.85 | Avg                   | 78.50                   | 243.94                 |              |
| 7425           | 69.70           | V            | 74.00  | -4.30  | Peak                  | 81.75                   | 226.38                 |              |
| 7425           | 49.70           | V            | 54.00  | -4.30  | Avg                   | 81.75                   | 226.38                 |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**Y-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 91.59           | H            | 114.00 | -22.41 | Peak                  | 235.88                  | 365.00                 |              |
| 2475           | 71.59           | H            | 94.00  | -22.41 | Avg                   | 235.88                  | 365.00                 |              |
| 4950           | 59.03           | H            | 74.00  | -14.97 | Peak                  | 10.50                   | 167.16                 |              |
| 4950           | 39.03           | H            | 54.00  | -14.97 | Avg                   | 10.50                   | 167.16                 |              |
| 7425           | 70.25           | H            | 74.00  | -3.75  | Peak                  | 246.75                  | 122.68                 |              |
| 7425           | 50.25           | H            | 54.00  | -3.75  | Avg                   | 246.75                  | 122.68                 |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**Z-Axis - Vertical**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 93.36           | V            | 114.00 | -20.64 | Peak                  | 263.00                  | 108.11                 |              |
| 2475           | 73.36           | V            | 94.00  | -20.64 | Avg                   | 263.00                  | 108.11                 |              |
| 4950           | 59.53           | V            | 74.00  | -14.47 | Peak                  | 30.00                   | 115.25                 |              |
| 4950           | 39.53           | V            | 54.00  | -14.47 | Avg                   | 30.00                   | 115.25                 |              |
| 7425           | 72.65           | V            | 74.00  | -1.35  | Peak                  | 89.50                   | 110.74                 |              |
| 7425           | 52.65           | V            | 54.00  | -1.35  | Avg                   | 89.50                   | 110.74                 |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |

**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

Date: 01/20/2016  
Lab: D  
Tested By: Kyle Fujimoto

**High Channel**  
**Z-Axis - Horizontal**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments     |
|----------------|-----------------|--------------|--------|--------|-----------------------|-------------------------|------------------------|--------------|
| 2475           | 84.15           | H            | 114.00 | -29.85 | Peak                  | 179.50                  | 256.59                 |              |
| 2475           | 64.15           | H            | 94.00  | -29.85 | Avg                   | 179.50                  | 256.59                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 4950           | 60.08           | H            | 74.00  | -13.92 | Peak                  | 285.25                  | 200.71                 |              |
| 4950           | 40.08           | H            | 54.00  | -13.92 | Avg                   | 285.25                  | 200.71                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 7425           | 71.54           | H            | 74.00  | -2.46  | Peak                  | 157.25                  | 185.79                 |              |
| 7425           | 51.54           | H            | 54.00  | -2.46  | Avg                   | 157.25                  | 185.79                 |              |
|                |                 |              |        |        |                       |                         |                        |              |
| 9900           |                 |              |        |        |                       |                         |                        | No Emissions |
| 9900           |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 12375          |                 |              |        |        |                       |                         |                        | No Emissions |
| 12375          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 14850          |                 |              |        |        |                       |                         |                        | No Emissions |
| 14850          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 17325          |                 |              |        |        |                       |                         |                        | No Emissions |
| 17325          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 19800          |                 |              |        |        |                       |                         |                        | No Emissions |
| 19800          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 22275          |                 |              |        |        |                       |                         |                        | No Emissions |
| 22275          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |
| 24750          |                 |              |        |        |                       |                         |                        | No Emissions |
| 24750          |                 |              |        |        |                       |                         |                        | Detected     |
|                |                 |              |        |        |                       |                         |                        |              |

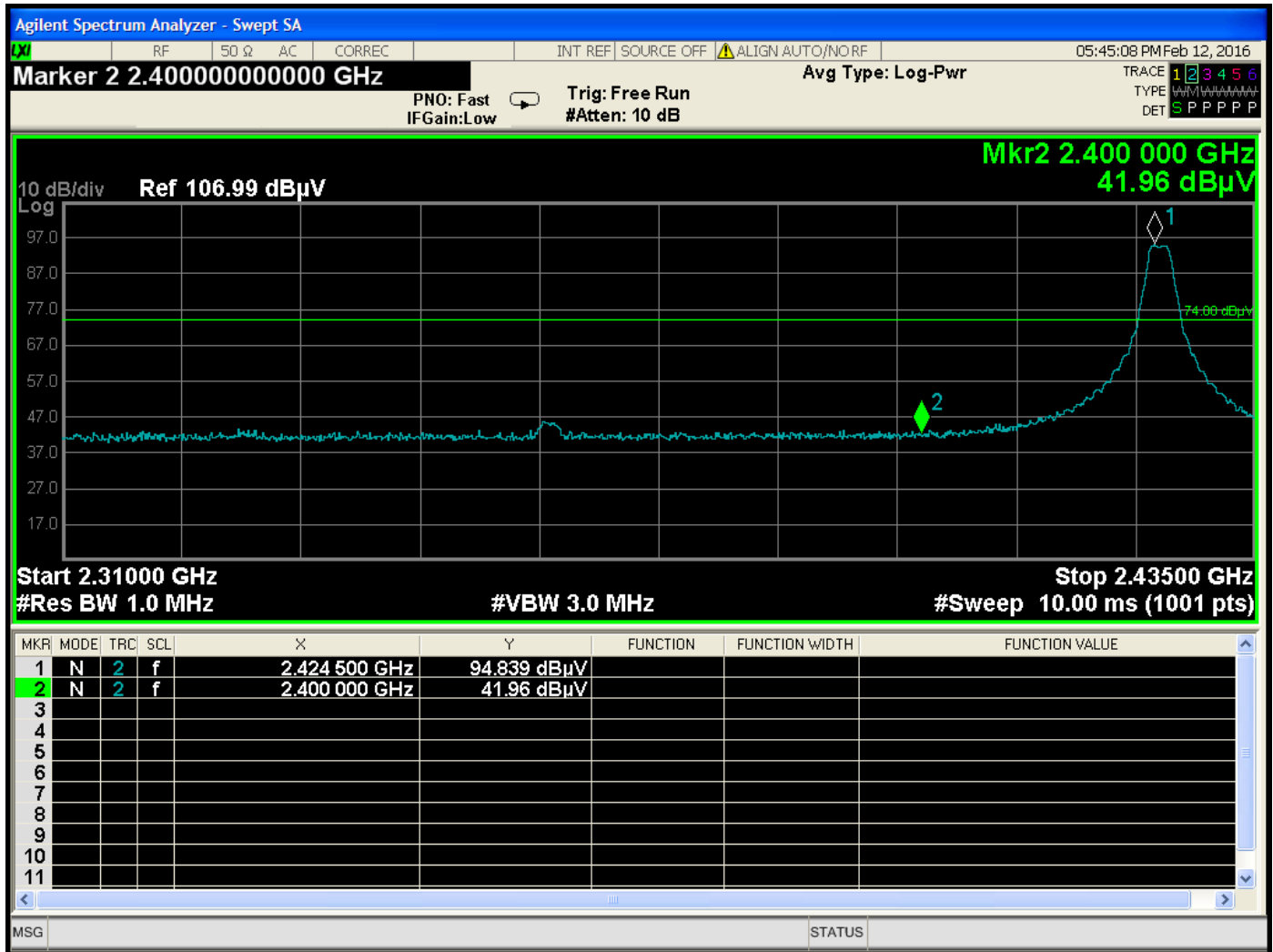
**FCC 15.249**

Universal Electronics, Inc.  
Comcast XR2v3 GP565 2016  
Model: URC-4269BC2-X-R  
Note: Antenna 1

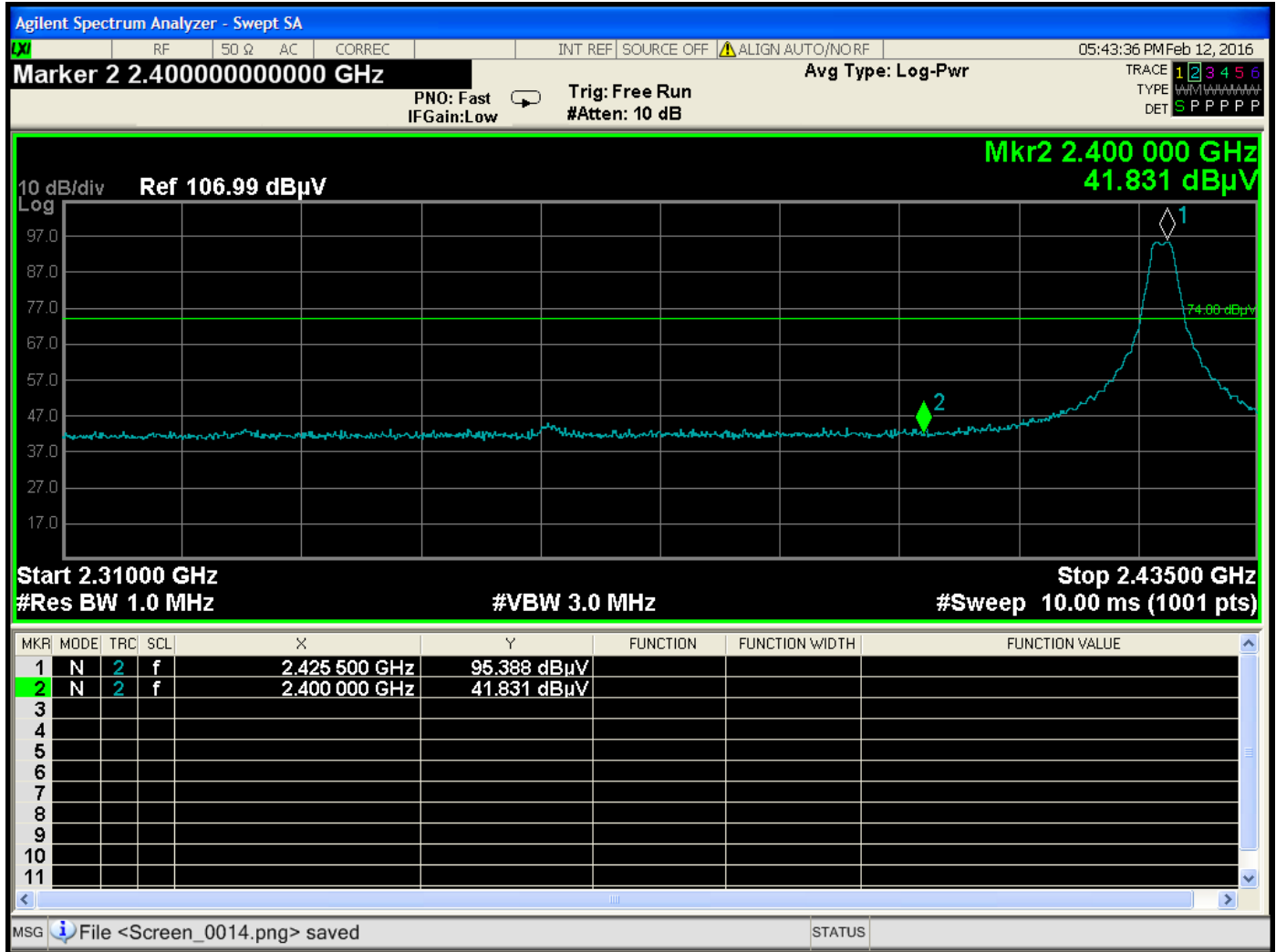
Date: 02/12/2016  
Lab: D  
Tested By: Kyle Fujimoto

**Band Edges**

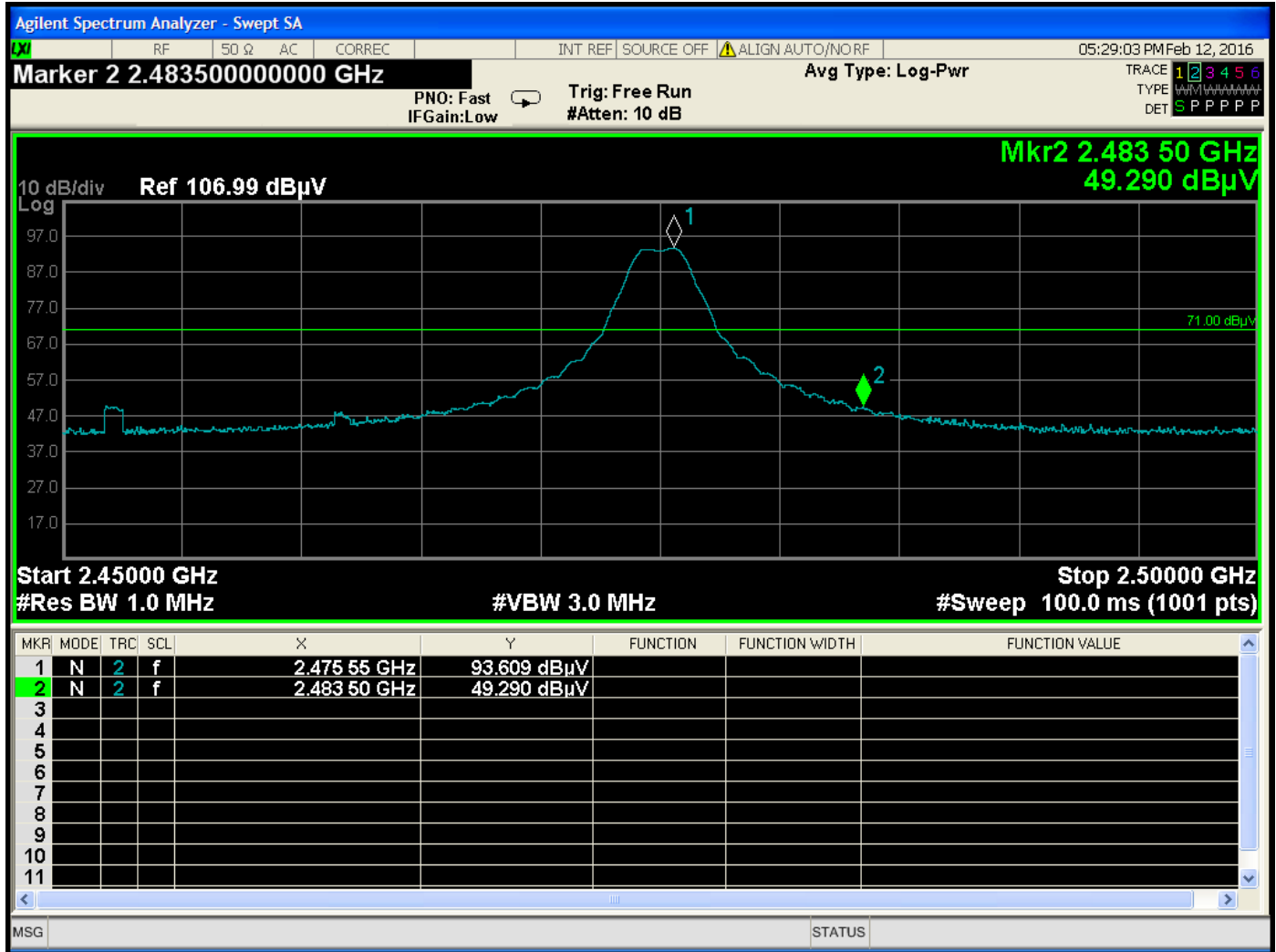
| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit  | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments                  |
|----------------|-----------------|--------------|--------|--------|-----------------------|-----------------------|-------------------------|---------------------------|
| 2425           | 95.39           | V            | 114.00 | -18.61 | Peak                  | 74.75                 | 134.41                  | Fundamental               |
| 2425           | 75.39           | V            | 94.00  | -18.61 | Avg                   | 74.75                 | 134.41                  | of Low Channel            |
| 2400           | 41.83           | V            | 74.00  | -32.17 | Peak                  | 74.75                 | 134.41                  | Band Edge of Low Channel  |
| 2400           | 21.83           | V            | 54.00  | -32.17 | Avg                   | 74.75                 | 134.41                  | Z-Axis Worst Case         |
| 2425           | 94.84           | H            | 114.00 | -19.16 | Peak                  | 70.25                 | 134.53                  | Fundamental of            |
| 2425           | 74.84           | H            | 94.00  | -19.16 | Avg                   | 70.25                 | 134.53                  | Low Channel               |
| 2400           | 41.96           | H            | 74.00  | -32.04 | Peak                  | 70.25                 | 134.53                  | Band Edge of Low Channel  |
| 2400           | 21.96           | H            | 54.00  | -32.04 | Avg                   | 70.25                 | 134.53                  | X-Axis Worst Case         |
| 2475           | 93.69           | H            | 114.00 | -20.31 | Peak                  | 149.25                | 177.16                  | Fundamental of            |
| 2475           | 73.69           | H            | 94.00  | -20.31 | Avg                   | 149.25                | 177.16                  | High Channel              |
| 2483.5         | 49.23           | H            | 74.00  | -24.77 | Peak                  | 149.25                | 177.16                  | Band Edge of High Channel |
| 2483.5         | 29.23           | H            | 54.00  | -24.77 | Avg                   | 149.25                | 177.16                  | X-Axis Worst Case         |
| 2475           | 93.61           | V            | 114.00 | -20.39 | Peak                  | 144.50                | 172.38                  | Fundamental of            |
| 2475           | 73.61           | V            | 94.00  | -20.39 | Avg                   | 144.50                | 172.38                  | High Channel              |
| 2483.5         | 49.29           | V            | 74.00  | -24.71 | Peak                  | 144.50                | 172.38                  | Band Edge of High Channel |
| 2483.5         | 29.29           | V            | 54.00  | -24.71 | Avg                   | 144.50                | 172.38                  | Z-Axis Worst Case         |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |
|                |                 |              |        |        |                       |                       |                         |                           |



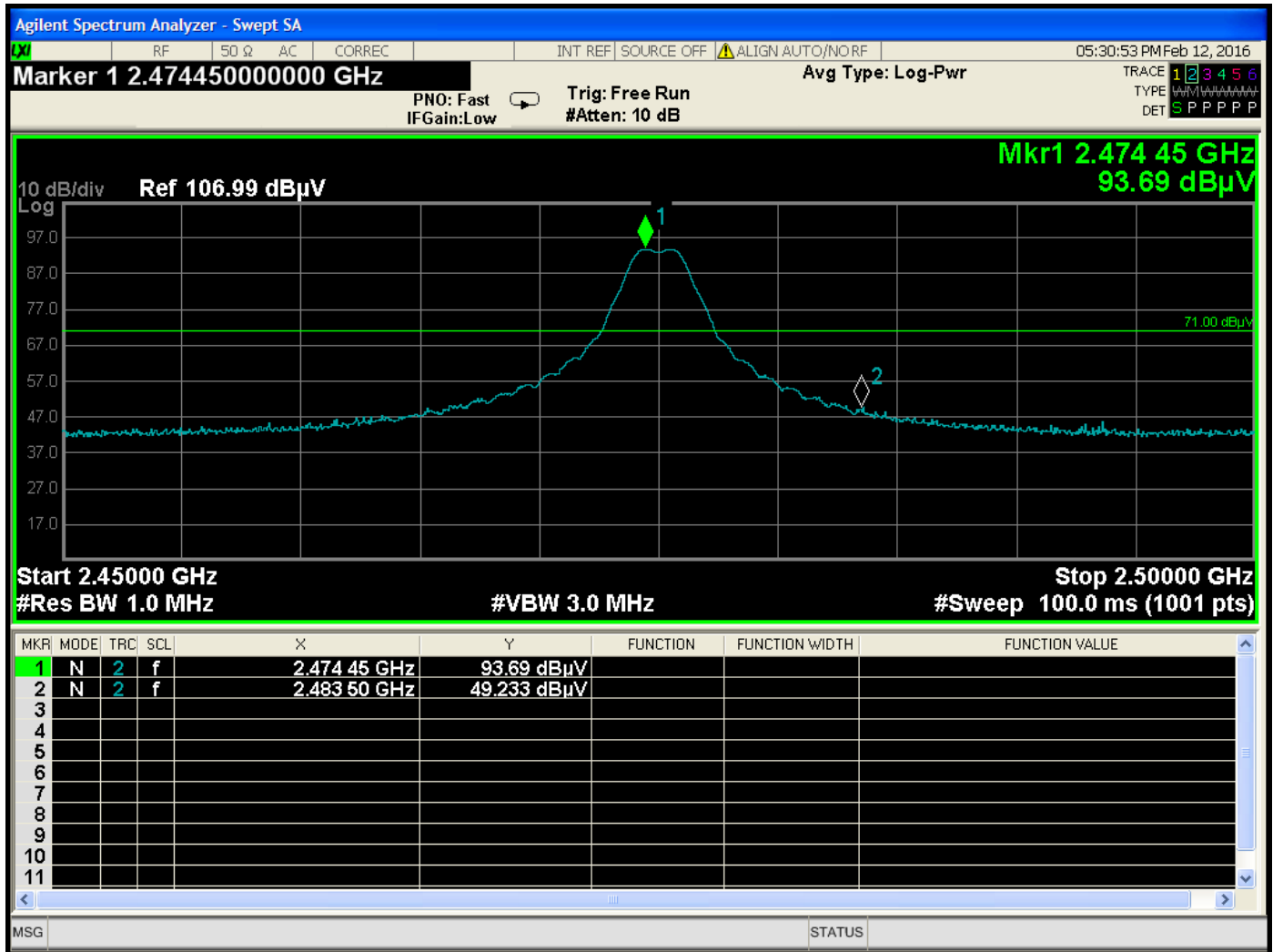
Low Band Edge – Antenna 1 – Horizontal – X-axis



Low Band Edge – Antenna 1 – Vertical – Z- axis



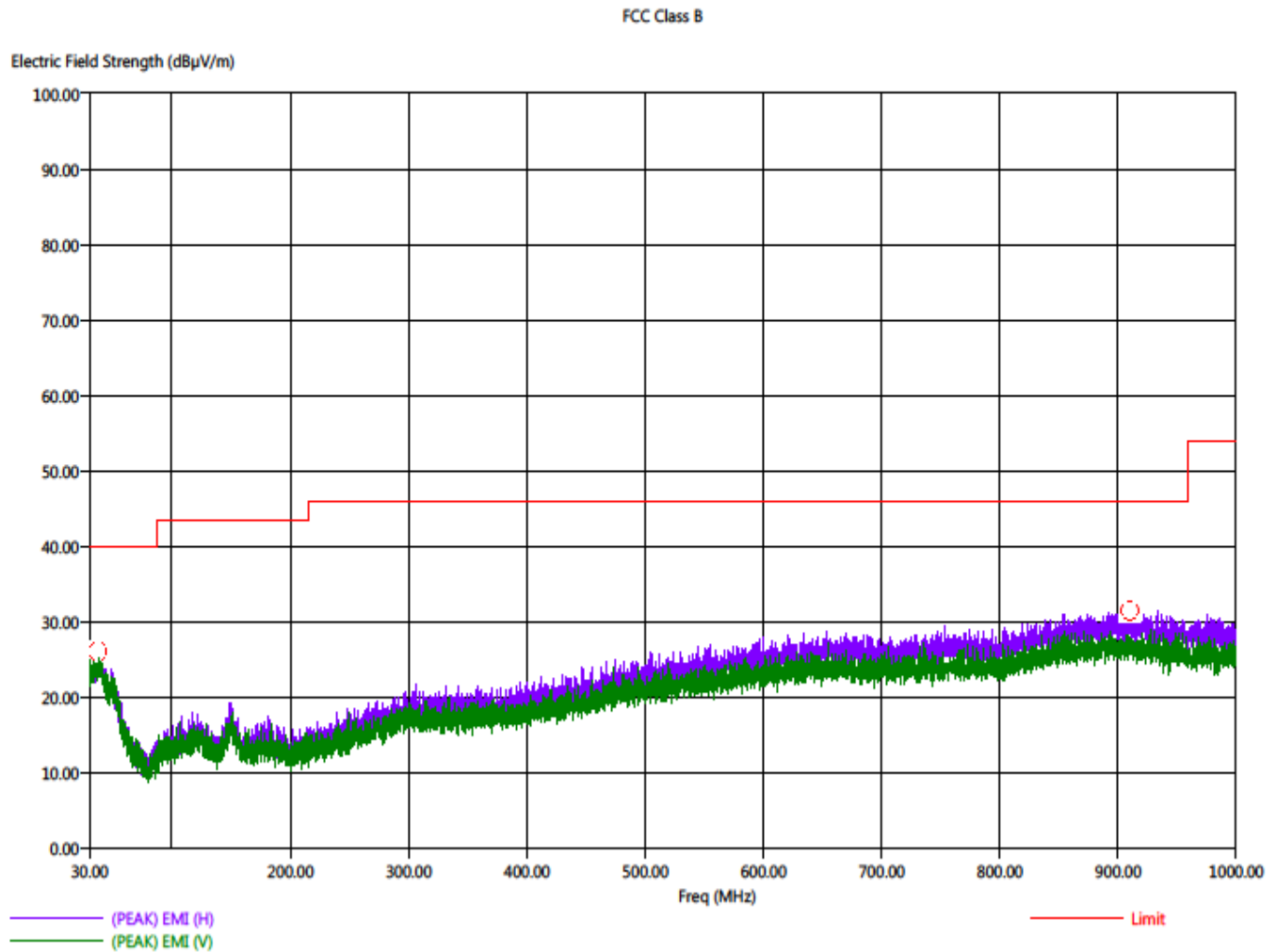
High Band Edge – Antenna 1 – Vertical – Z axis



High Band Edge – Antenna 1 – Horizontal – X-axis

Title: Pre-Scan - FCC Class B  
File: Aqilent - Radiated Pre-Scan 30-1000Mhz - FCC Class B-ant 1.set  
Operator: Michael Christensen  
EUT Type: Comcast XR2v3 GP565 2016  
EUT Condition: Continuously Transmitting, Antenna 1, X-axis worst case  
Comments: Customer: Universal Electronics, Inc.  
M/N: URC-4269BC2-X-R

1/29/2016 4:32:41 PM  
Sequence: Preliminary Scan



No additional spurious emissions were found between 10 kHz – 30 MHz and 1 GHz – 25 GHz

Title: Radiated Final - 30-1000 MHz - FCC Class B  
File: Aqilent - Radiated Final Scan 30-1000Mhz - FCC Class B-ant 1.set  
Operator: Michael Christensen  
EUT Type: Comcast XR2v3 GP565 2016  
EUT Condition: Continuously Transmitting, Antenna 1, X-axis worst case  
Comments: Customer: Universal Electronics, Inc.  
M/N: URC-4269BC2-X-R

1/29/2016 4:45:32 PM  
Sequence: Final Measurements

FCC Class B

| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dBμV/m) | (OP) EMI<br>(dBμV/m) | (PEAK) Margin<br>(dB) | (OP) Margin<br>(dB) | Limit<br>(dBμV/m) | Twr Ht<br>(cm) | Ttbl Aql<br>(dec) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|----------------|-------------------|
| 37.10         | H   | 26.38                  | 22.65                | -13.62                | -17.35              | 40.00             | 400.11         | 252.00            |
| 39.10         | H   | 26.85                  | 23.06                | -13.15                | -16.94              | 40.00             | 399.88         | 244.25            |
| 39.80         | H   | 28.03                  | 23.20                | -11.97                | -16.80              | 40.00             | 159.76         | 4.00              |
| 40.90         | H   | 26.17                  | 22.28                | -13.83                | -17.72              | 40.00             | 143.64         | 243.00            |
| 910.00        | H   | 32.58                  | 27.55                | -13.42                | -18.45              | 46.00             | 256.17         | 2.00              |
| 911.70        | H   | 31.76                  | 27.64                | -14.24                | -18.36              | 46.00             | 352.89         | 334.00            |