

FCC PART 15, SUBPART B and C  
TEST REPORT

for

WOW! EXPERIENCE RF4CE REMOTE 2016

MODEL: URC-2135BC0-R

Prepared for

UNIVERSAL ELECTRONICS INC.  
201 SANDPOINTE AVE, 8<sup>TH</sup> FLOOR  
SANTA ANA, CA 92707

Prepared by: 

EDGAR VALENCIA

Approved by: 

KYLE FUJIMOTO

COMPATIBLE ELECTRONICS INC.  
114 OLINDA DRIVE  
BREA, CALIFORNIA 92823  
(714) 579-0500

DATE: OCTOBER 5, 2016

	REPORT BODY	APPENDICES					TOTAL
		A	B	C	D	E	
PAGES	17	2	2	2	13	34	70

This report shall not be reproduced except in full, without the written approval of Compatible Electronics.



---

**TABLE OF CONTENTS**

<b>Section / Title</b>	<b>PAGE</b>
<b>GENERAL REPORT SUMMARY</b>	<b>4</b>
<b>SUMMARY OF TEST RESULTS</b>	<b>5</b>
<b>1. PURPOSE</b>	<b>6</b>
<b>2. ADMINISTRATIVE DATA</b>	<b>7</b>
2.1 Location of Testing	7
2.2 Traceability Statement	7
2.3 Cognizant Personnel	7
2.4 Date Test Sample was Received	7
2.5 Disposition of the Test Sample	7
2.6 Abbreviations and Acronyms	7
<b>3. APPLICABLE DOCUMENTS</b>	<b>8</b>
<b>4. DESCRIPTION OF TEST CONFIGURATION</b>	<b>9</b>
4.1 Description of Test Configuration – Emissions	9
4.1.1 Cable Construction and Termination	9
<b>5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT</b>	<b>10</b>
5.1 EUT and Accessory List	10
<b>6. TEST SITE DESCRIPTION</b>	<b>12</b>
6.1 Test Facility Description	12
6.2 EUT Mounting, Bonding and Grounding	12
<b>7. test procedures</b>	<b>13</b>
7.1 RF Emissions	13
7.1.1 Conducted Emissions Test	13
7.1.2 Radiated Emissions Test	14
7.1.3 RF Emissions Test Results	15
7.2 Fundamental Field Strength (Duty Cycle Calculations)	16
<b>8. CONCLUSIONS</b>	<b>17</b>

**LIST OF APPENDICES**

<b>APPENDIX</b>	<b>TITLE</b>
A	Laboratory Accreditations and Recognitions
B	Modifications to the EUT
C	Additional Models Covered Under This Report
D	Diagrams and Charts <ul style="list-style-type: none"><li>• Test Setup Diagrams</li><li>• Antenna and Effective Gain Factors</li></ul>
E	Data Sheets

**LIST OF FIGURES**

<b>FIGURE</b>	<b>TITLE</b>
1	Conducted Emissions Test Setup
2	Layout of the Semi-Anechoic Test Chamber

---

## 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: WOW! Experience RF4CE Remote 2016  
Model: URC-2135BC0-R  
S/N: N/A

Product Description: The EUT is a RF4CE remote control.

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

Customer: Universal Electronics, Inc.  
201 Sandpointe Ave, 8<sup>th</sup> Floor  
Santa Ana, CA 92707

Test Dates: September 13 and 14, 2016

Test Specification covered by accreditation:



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.

---

**SUMMARY OF TEST RESULTS**

<i>TEST</i>	<b>DESCRIPTION</b>	<b>RESULTS</b>
1	Spurious Radiated RF Emissions, 10 kHz – 2500 MHz (Transmitter, Receiver, and Digital portion)	Complies with the <b>Class B</b> limits of CFR Title 47, Part 15 Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.249 Highest reading in relation to spec limit: 49.89 dBuV/m @ 7275 MHz (*U = 4.54 dB)



**1. PURPOSE**

This document is a qualification test report based on the emissions tests performed on the WOW! Experience RF4CE Remote 2016, Model: URC-2135BC0-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.





**3. APPLICABLE DOCUMENTS**

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

<b>SPEC</b>	<b>TITLE</b>
FCC Title 47, Part 15 Subpart C	FCC Rules – Radio frequency devices (including digital devices) – Intentional Radiators
FCC Title 47, Part 15 Subpart B	FCC Rules – Radio frequency devices (including digital devices) – Unintentional Radiators
EN 50147-2: 1997	Anechoic chambers. Alternative test site suitability with respect to site attenuation
ANSI C63.4 2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ANSI C63.10 2013	American National Standard for Testing Unlicensed Wireless Devices



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

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

The WOW! Experience RF4CE Remote 2016, Model: URC-2135BC0-R (EUT) was tested as a stand alone device. A fresh set of batteries were inserted in the EUT prior to testing

The EUT was tested for emissions at the low, middle, and high channels while in the X, Y and Z axis. During the testing, the EUT was continuously transmitting.

The EUT was placed in a special modulated test mode to allow for continuously transmission via the Smart RF Studio 7 version 2.2.1 test software. The laptop for the test software was only used to program the EUT and then was removed during the testing.

The duty cycle was taken with the EUT in attempting to pair with a USB dongle and then communicating with the USB dongle. Both of these modes represent the worst case.

The X orientation is when the EUT is parallel to the ground. The Y orientation is when the EUT is perpendicular to the ground mounted vertically. The Z orientation is when the EUT is perpendicular to the ground mounted horizontally.

The final radiated data for the EUT 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 external cables.

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

<b>EQUIPMENT</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>FCC ID</b>
WOW! EXPERIENCE RF4CE REMOTE 2016 (EUT)	UNIVERSAL ELCTRONICS, INC.	URC-2135BC0-R	N/A	MG3-2135
TEST SOFTWARE FOR EUT	TEXAS INSTRUMENTS	SMART RF STUDIO 7	2.2.1	N/A
LAPTOP FOR TEST SOFTWARE	DELL	X436M A01	N/A	N/A

1

## 5.2 Emissions Test Equipment

EQUIPMENT TYPE	MANUFACTURER	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	MY51210150	December 29, 2015	1 Year
<b>RF RADIATED EMISSIONS TEST EQUIPMENT</b>					
CombiLog Antenna	Com-Power	AC-220	61060	September 3, 2015	2 Year
Preamplifier	Com-Power	PAM-118A	551024	May 12, 2016	1 Year
Loop Antenna	Com-Power	AL-130	17089	February 6, 2015	2 Year
Preamplifier	Com-Power	PA-840	711013	May 13, 2016	2
Horn Antenna	Com-Power	AH-826	71957	N/A	N/A
Horn Antenna	Com-Power	AH-118	071175	February 26, 2016	2 Year
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 Conducted Emissions Test

The EMI Receiver was used as a measuring meter. A quasi-peak and/or average reading was taken only where indicated in the data sheets. A transient limiter was used for the protection of the EMI Receiver input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the EMI Receiver. The output of the second LISN was terminated by a 50-ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding, and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI 63:4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by computer software. The final qualification data is located in Appendix E.

#### Test Results:

This test was not performed on the EUT because the EUT is battery powered and does not connect to the AC power mains.

## 7.1.2 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. The effective measurement bandwidth used for the radiated emissions test was according to the frequency measured (200 Hz for 10 kHz to 150 kHz, 9 kHz for 150 kHz to 30 MHz, 120 kHz for 30 MHz to 1 GHz and 1 MHz for 1 GHz to 9.3 GHz).

For frequencies above 1 GHz, the readings were averaged by a “duty cycle correction factor”, derived from 20 Log (dwell time /100ms). This duty cycle correction factor was then subtracted from the peak reading.

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, EN 50147-2 and CISPR 22. 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.

The EUT was tested at a 3-meter test distance. The six highest emissions are listed in Table 2.0.

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

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
10 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

### Test Results:

The EUT complies with the **Class B** limits of **CFR** Title 47, Part 15, Subpart B; and Subpart C sections 15.205, 15.209 and 15.249 for radiated emissions.

### 7.1.3 RF Emissions Test Results

Table 1.0 RADIATED EMISSION RESULTS  
WOW! Experience RF4CE Remote 2016  
Model: URC-2135BC0-R

Frequency MHz	EMI Reading (dBuV/m)	Specification Limit (dBuV)	Delta (Cor. Reading – Spec. Limit) dB
7275 (H) (Y-Axis)	49.89 (AVG)	53.97	-4.08
7275 (V) (Y-Axis)	47.53 (AVG)	53.97	-6.44
7275 (V) (Z-Axis)	47.53 (AVG)	53.97	-6.44
7275 (V) (X-Axis)	46.36 (AVG)	53.97	-7.61
7275 (H) (X-Axis)	46.32 (AVG)	53.97	-7.65
7275 (H) (Z-Axis)	45.09 (AVG)	53.97	-8.88

Notes:

- \* The complete emissions data is given in Appendix E of this report.
- (BL) Black Lead
- (WL) White Lead
- (V) Vertical
- (H) Horizontal
- (QP) Quasi-Peak
- (Avg) Average

## 7.2 Fundamental Field Strength (Duty Cycle Calculations)

The Peak Transmit Radiated Field Strength was measured at a 3-meter test distance. The EMI Receiver was used to obtain the duty cycle. The data sheets are located in Appendix E.

Where

$$\delta(\text{dB}) = 20 \log \left[ \frac{\sum (nt_1 + mt_2 + \dots + \xi t_x)}{T} \right]$$

$n$  is the number of pulses of duration  $t_1$

$m$  is the number of pulses of duration  $t_2$

$\xi$  is the number of pulses of duration  $t_x$

$T$  is the period of the pulse train or 100 ms if the pulse train length is greater than 100 ms

Duty Cycle Correction Factor = -20.00 dB

The EUT was tested in both advertising and data modes. Please see Appendix E for the data sheets and more detailed explanation of how the duty cycle was derived.



**8. CONCLUSIONS**

The WOW! Experience RF4CE Remote 2016, Model: URC-2135BC0-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



NVLAP LAB CODE 200528-0

® For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025.

**For the most up-to-date version of our scopes and certificates please visit**

**<http://celectronics.com/quality/scope/>**

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](#)

We are also listed for IT products by the following country/agency:



VCCI Support member: Please visit [http://www.vcci.jp/vcci\\_e/](http://www.vcci.jp/vcci_e/)



FCC Listing, from FCC OET site

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



**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***

---

**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

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

USED FOR THE PRIMARY TEST

WOW! Experience RF4CE Remote 2016  
Model: URC-2135BC0-R  
S/N: N/A

There are no additional models covered under this report.



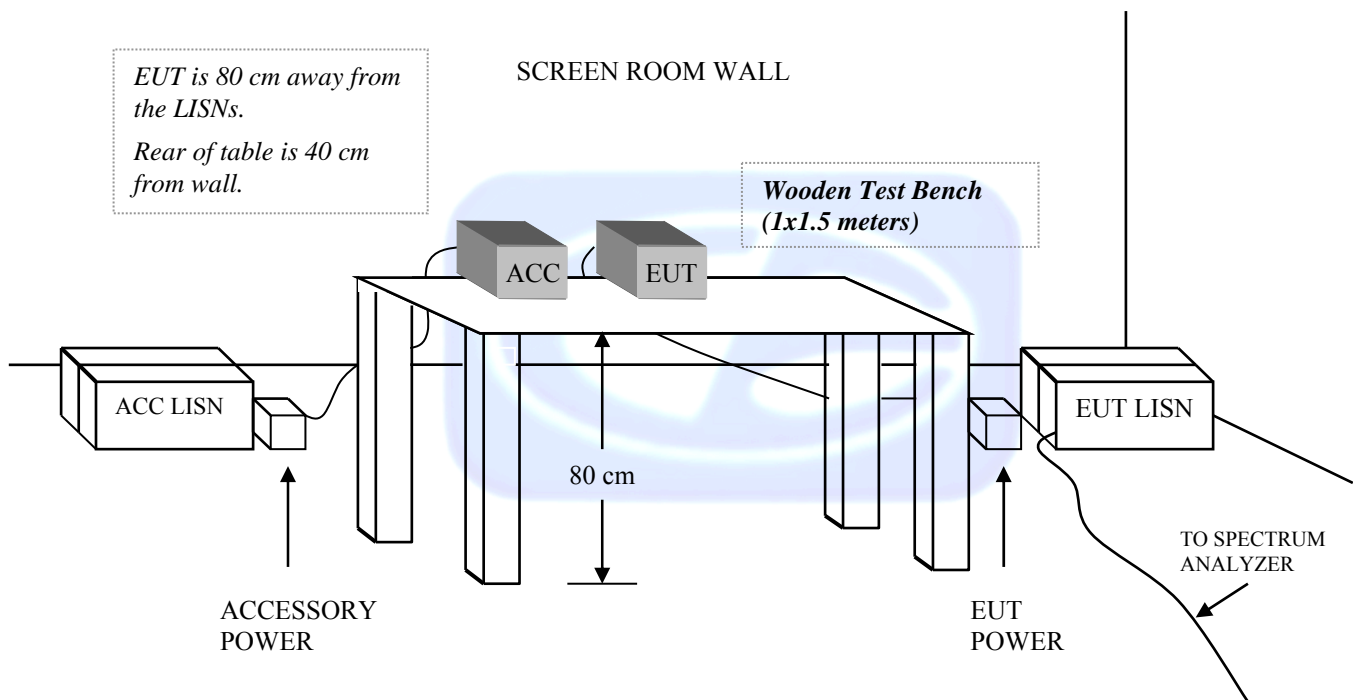


**APPENDIX D**

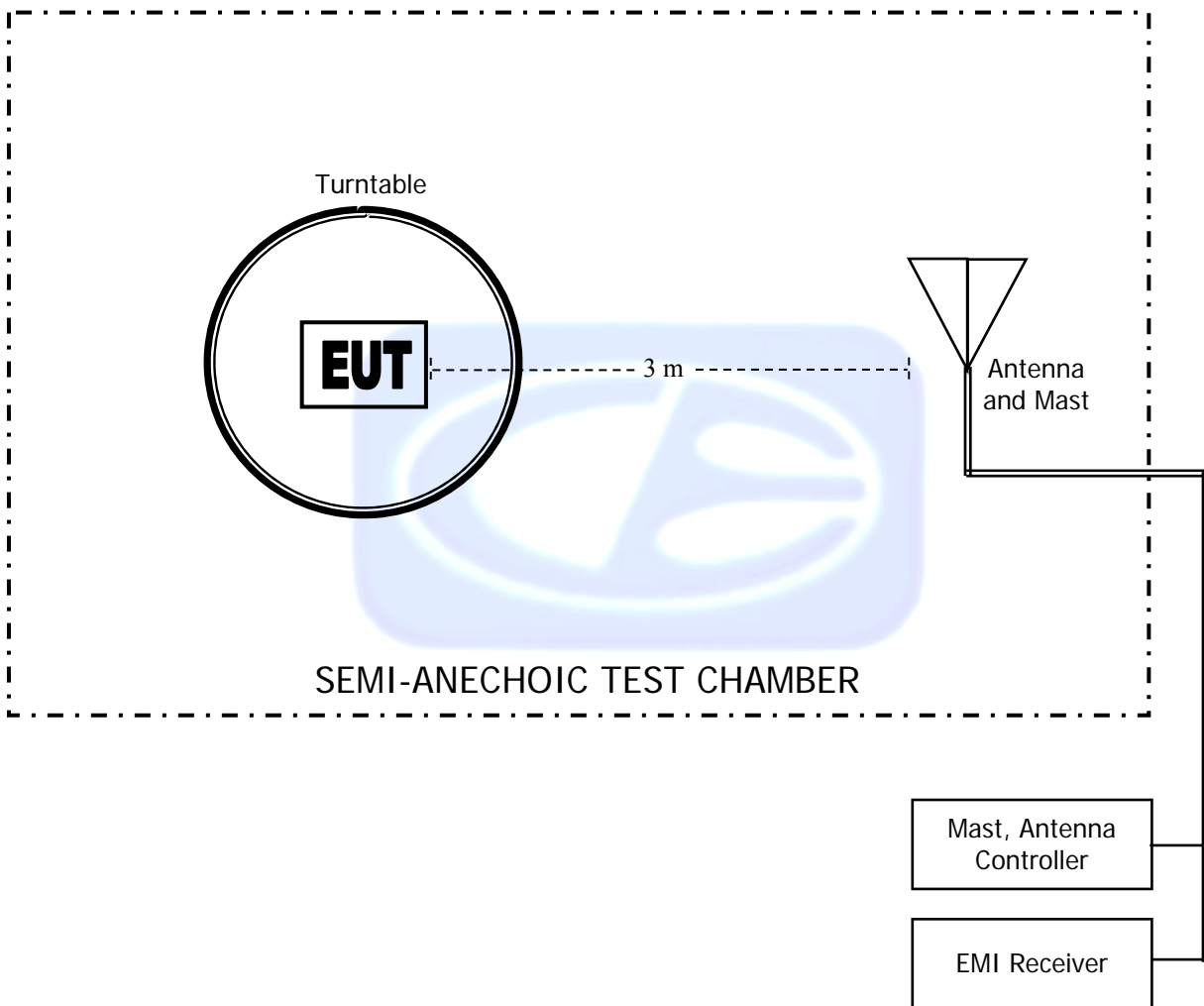
***DIAGRAMS AND CHARTS***



**FIGURE 1: CONDUCTED EMISSIONS TEST SETUP**



**FIGURE 2: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER**



**COM-POWER AL-130****LOOP ANTENNA**

S/N: 17089

CALIBRATION DATE: FEBRUARY 6, 2015

<b>FREQUENCY (MHz)</b>	<b>MAGNETIC (dB/m)</b>	<b>ELECTRIC (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

<b>FREQUENCY (MHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (MHz)</b>	<b>FACTOR (dB)</b>
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, 2016

<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>
1.0	23.93	10.0	39.33
1.5	25.54	10.5	39.64
2.0	28.09	11.0	41.04
2.5	30.21	11.5	44.29
3.0	30.15	12.0	41.22
3.5	30.17	12.5	41.50
4.0	31.90	13.0	41.62
4.5	33.51	13.5	40.63
5.0	33.87	14.0	39.94
5.5	35.08	14.5	41.84
6.0	34.81	15.0	42.69
6.5	34.26	15.5	39.03
7.0	36.33	16.0	39.07
7.5	37.03	16.5	41.40
8.0	37.56	17.0	43.18
8.5	40.07	17.5	47.01
9.0	38.92	18.0	46.48
9.5	38.21		

**COM-POWER PA-118****PREAMPLIFIER**

S/N: 551024

CALIBRATION DATE: MAY 12, 2016

<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>
1.0	39.84	6.0	39.05
1.1	39.40	6.5	38.94
1.2	39.58	7.0	39.25
1.3	39.68	7.5	39.09
1.4	39.91	8.0	39.01
1.5	39.78	8.5	38.60
1.6	39.50	9.0	38.64
1.7	39.81	9.5	39.67
1.8	39.89	10.0	39.30
1.9	39.94	11.0	39.15
2.0	39.57	12.0	39.24
2.5	40.39	13.0	39.49
3.0	40.63	14.0	39.44
3.5	40.80	15.0	39.94
4.0	40.86	16.0	40.09
4.5	39.94	17.0	40.06
5.0	34.47	18.0	39.76
5.5	39.32		

**COM-POWER AH-826****HORN ANTENNA**

S/N: 71957

<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (GHz)</b>	<b>FACTOR (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

---

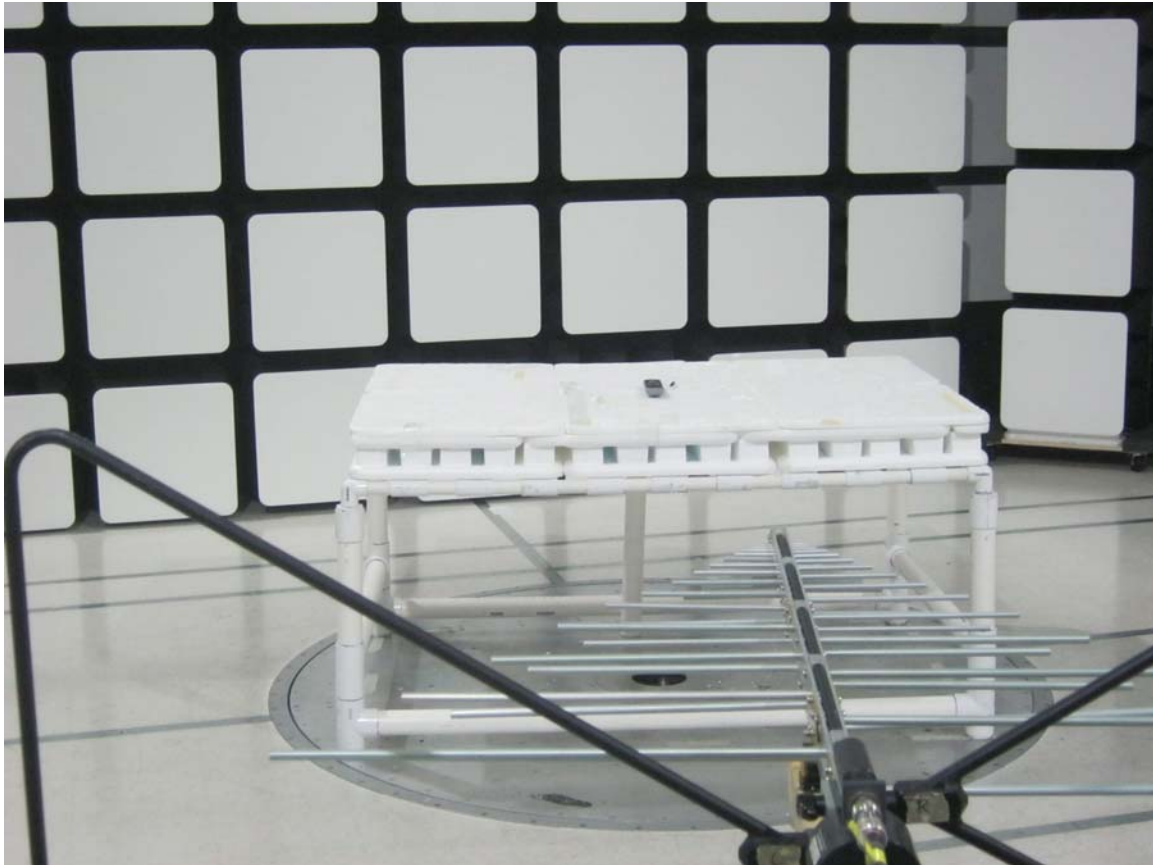
**COM-POWER PA-840****MICROWAVE PREAMPLIFIER**

S/N: 711013

CALIBRATION DATE: MAY 13, 2016

<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (GHz)</b>	<b>FACTOR (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

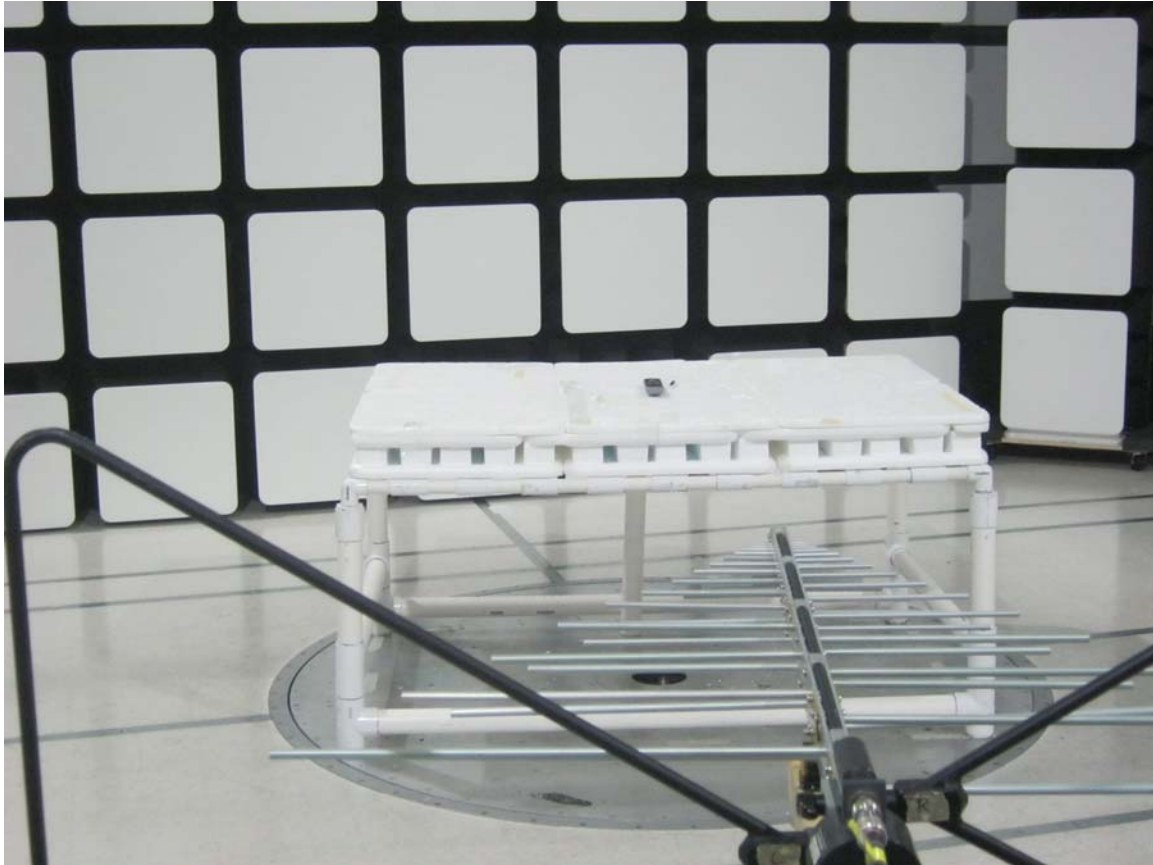




**FRONT VIEW**

UNIVERSAL ELECTRONICS, INC  
WOW! EXPERIENCE RF4CE REMOTE 2016  
MODEL: URC-2135BC0-R  
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

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



**REAR VIEW**

UNIVERSAL ELECTRONICS, INC  
WOW! EXPERIENCE RF4CE REMOTE 2016  
MODEL: URC-2135BC0-R  
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

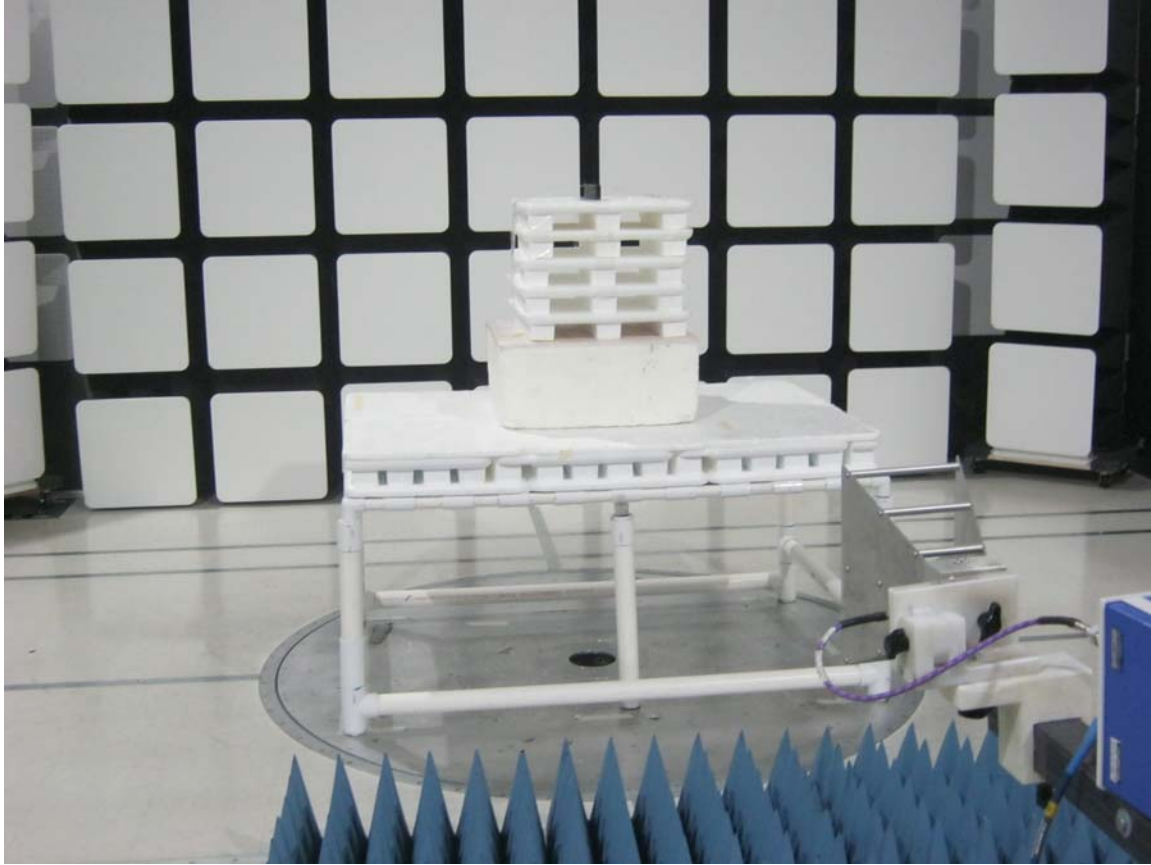
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**FRONT VIEW**

UNIVERSAL ELECTRONICS, INC  
WOW! EXPERIENCE RF4CE REMOTE 2016  
MODEL: URC-2135BC0-R  
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

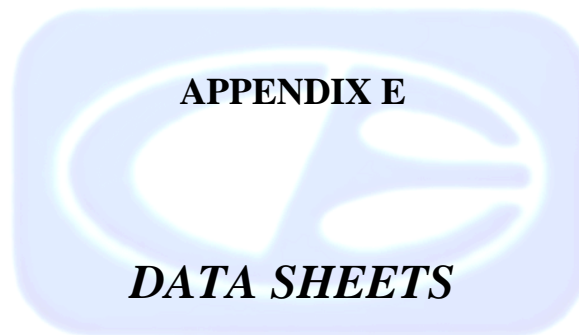
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**REAR VIEW**

UNIVERSAL ELECTRONICS, INC  
WOW! EXPERIENCE RF4CE REMOTE 2016  
MODEL: URC-2135BC0-R  
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

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





***RADIATED EMISSIONS  
DATA SHEETS***



**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Low Channel**

**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	84.71	V	113.97	-29.26	Peak	334.00	224.92	
2425	64.71	V	93.97	-29.26	Avg	334.00	224.92	
4850	61.18	V	73.97	-12.79	Peak	167.25	241.28	
4850	41.18	V	53.97	-12.79	Avg	167.25	241.28	
7275	66.36	V	73.97	-7.61	Peak	51.50	111.43	
7275	46.36	V	53.97	-7.61	Avg	51.50	111.43	
9700								No Emission
9700								Detected
12125								No Emission
12125								Detected
14550								No Emission
14550								Detected
16975								No Emission
16975								Detected
19400								No Emission
19400								Detected
21825								No Emission
21825								Detected
24250								No Emission
24250								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Low Channel**

**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	97.91	H	113.97	-16.06	Peak	167.00	110.89	
2425	77.91	H	93.97	-16.06	Avg	167.00	110.89	
4850	64.78	H	73.97	-9.19	Peak	149.00	111.37	
4850	44.78	H	53.97	-9.19	Avg	149.00	111.37	
7275	66.32	H	73.97	-7.65	Peak	117.25	143.55	
7275	46.32	H	53.97	-7.65	Avg	117.25	143.55	
9700								No Emission
9700								Detected
12125								No Emission
12125								Detected
14550								No Emission
14550								Detected
16975								No Emission
16975								Detected
19400								No Emission
19400								Detected
21825								No Emission
21825								Detected
24250								No Emission
24250								Detected



**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Low Channel**

**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	98.85	V	113.97	-15.12	Peak	262.00	127.43	
2425	78.85	V	93.97	-15.12	Avg	262.00	127.43	
4850	55.87	V	73.97	-18.10	Peak	54.00	249.95	
4850	35.87	V	53.97	-18.10	Avg	54.00	249.95	
7275	67.53	V	73.97	-6.44	Peak	51.50	111.01	
7275	47.53	V	53.97	-6.44	Avg	51.50	111.01	
9700								No Emission
9700								Detected
12125								No Emission
12125								Detected
14550								No Emission
14550								Detected
16975								No Emission
16975								Detected
19400								No Emission
19400								Detected
21825								No Emission
21825								Detected
24250								No Emission
24250								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Low Channel**

**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	74.16	H	113.97	-39.81	Peak	306.50	127.37	
2425	54.16	H	93.97	-39.81	Avg	306.50	127.37	
4850	64.45	H	73.97	-9.52	Peak	357.25	127.55	
4850	44.45	H	53.97	-9.52	Avg	357.25	127.55	
7275	69.89	H	73.97	-4.08	Peak	202.00	174.71	
7275	49.89	H	53.97	-4.08	Avg	202.00	174.71	
9700								No Emission
9700								Detected
12125								No Emission
12125								Detected
14550								No Emission
14550								Detected
16975								No Emission
16975								Detected
19400								No Emission
19400								Detected
21825								No Emission
21825								Detected
24250								No Emission
24250								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Low Channel**

**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	94.19	V	113.97	-19.78	Peak	236.50	191.61	
2425	74.19	V	93.97	-19.78	Avg	236.50	191.61	
4850	55.87	V	73.97	-18.10	Peak	54.00	249.95	
4850	35.87	V	53.97	-18.10	Avg	54.00	249.95	
7275	67.53	V	73.97	-6.44	Peak	51.50	111.01	
7275	47.53	V	53.97	-6.44	Avg	51.50	111.01	
9700								No Emission
9700								Detected
12125								No Emission
12125								Detected
14550								No Emission
14550								Detected
16975								No Emission
16975								Detected
19400								No Emission
19400								Detected
21825								No Emission
21825								Detected
24250								No Emission
24250								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Low Channel**

**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2425	97.30	H	113.97	-16.67	Peak	158.75	191.55	
2425	77.30	H	93.97	-16.67	Avg	158.75	191.55	
4850	64.34	H	73.97	-9.63	Peak	194.00	110.65	
4850	44.34	H	53.97	-9.63	Avg	194.00	110.65	
7275	65.09	H	73.97	-8.88	Peak	231.00	111.31	
7275	45.09	H	53.97	-8.88	Avg	231.00	111.31	
9700								No Emission
9700								Detected
12125								No Emission
12125								Detected
14550								No Emission
14550								Detected
16975								No Emission
16975								Detected
19400								No Emission
19400								Detected
21825								No Emission
21825								Detected
24250								No Emission
24250								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Middle Channel**

**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	83.47	V	113.97	-30.50	Peak	355.50	223.37	
2450	63.47	V	93.97	-30.50	Avg	355.50	223.37	
4900	49.10	V	73.97	-24.87	Peak	175.75	143.25	
4900	29.10	V	53.97	-24.87	Avg	175.75	143.25	
7350	45.82	V	73.97	-28.15	Peak	175.75	127.55	
7350	25.82	V	53.97	-28.15	Avg	175.75	127.55	
9800								No Emission
9800								Detected
12250								No Emission
12250								Detected
14700								No Emission
14700								Detected
17150								No Emission
17150								Detected
19600								No Emission
19600								Detected
22050								No Emission
22050								Detected
24500								No Emission
24500								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Middle Channel**

**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	97.50	H	113.97	-16.47	Peak	78.00	126.77	
2450	77.50	H	93.97	-16.47	Avg	78.00	126.77	
4900	53.39	H	73.97	-20.58	Peak	359.25	127.43	
4900	33.39	H	53.97	-20.58	Avg	359.25	127.43	
7350	46.96	H	73.97	-27.01	Peak	170.50	143.49	
7350	26.96	H	53.97	-27.01	Avg	170.50	143.49	
9800								No Emission
9800								Detected
12250								No Emission
12250								Detected
14700								No Emission
14700								Detected
17150								No Emission
17150								Detected
19600								No Emission
19600								Detected
22050								No Emission
22050								Detected
24500								No Emission
24500								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Middle Channel**

**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	97.56	V	113.97	-16.41	Peak	46.00	142.83	
2450	77.56	V	93.97	-16.41	Avg	46.00	142.83	
4900	52.47	V	73.97	-21.50	Peak	359.75	249.88	
4900	32.47	V	53.97	-21.50	Avg	359.75	249.88	
7350	43.58	V	73.97	-30.39	Peak	75.75	127.85	
7350	23.58	V	53.97	-30.39	Avg	75.75	127.85	
9800								No Emission
9800								Detected
12250								No Emission
12250								Detected
14700								No Emission
14700								Detected
17150								No Emission
17150								Detected
19600								No Emission
19600								Detected
22050								No Emission
22050								Detected
24500								No Emission
24500								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Middle Channel**

**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	84.58	H	113.97	-29.39	Peak	196.75	223.67	
2450	64.58	H	93.97	-29.39	Avg	196.75	223.67	
4900	50.85	H	73.97	-23.12	Peak	289.25	143.31	
4900	30.85	H	53.97	-23.12	Avg	289.25	143.31	
7350	44.07	H	73.97	-29.90	Peak	308.00	159.37	
7350	24.07	H	53.97	-29.90	Avg	308.00	159.37	
9800								No Emission
9800								Detected
12250								No Emission
12250								Detected
14700								No Emission
14700								Detected
17150								No Emission
17150								Detected
19600								No Emission
19600								Detected
22050								No Emission
22050								Detected
24500								No Emission
24500								Detected



**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Middle Channel  
 Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	93.68	V	113.97	-20.29	Peak	66.75	112.26	
2450	73.68	V	93.97	-20.29	Avg	66.75	112.26	
4900	55.98	V	73.97	-17.99	Peak	90.75	127.73	
4900	35.98	V	53.97	-17.99	Avg	90.75	127.73	
7350	45.53	V	73.97	-28.44	Peak	359.75	158.95	
7350	25.53	V	53.97	-28.44	Avg	359.75	158.95	
9800								No Emission
9800								Detected
12250								No Emission
12250								Detected
14700								No Emission
14700								Detected
17150								No Emission
17150								Detected
19600								No Emission
19600								Detected
22050								No Emission
22050								Detected
24500								No Emission
24500								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**Middle Channel**

**Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2450	96.82	H	113.97	-17.15	Peak	160.50	126.95	
2450	76.82	H	93.97	-17.15	Avg	160.50	126.95	
4900	53.75	H	73.97	-20.22	Peak	142.25	111.19	
4900	33.75	H	53.97	-20.22	Avg	142.25	111.19	
7350	47.41	H	73.97	-26.56	Peak	338.25	127.31	
7350	27.41	H	53.97	-26.56	Avg	338.25	127.31	
9800								No Emission
9800								Detected
12250								No Emission
12250								Detected
14700								No Emission
14700								Detected
17150								No Emission
17150								Detected
19600								No Emission
19600								Detected
22050								No Emission
22050								Detected
24500								No Emission
24500								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**High Channel**

**X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	82.67	V	113.97	-31.30	Peak	345.75	223.61	
2475	62.67	V	93.97	-31.30	Avg	345.75	223.61	
4950	50.45	V	73.97	-23.52	Peak	166.75	175.55	
4950	30.45	V	53.97	-23.52	Avg	166.75	175.55	
7425	46.01	V	73.97	-27.96	Peak	170.50	127.37	
7425	26.01	V	53.97	-27.96	Avg	170.50	127.37	
9900								No Emission
9900								Detected
12375								No Emission
12375								Detected
14850								No Emission
14850								Detected
17325								No Emission
17325								Detected
19800								No Emission
19800								Detected
22275								No Emission
22275								Detected
24750								No Emission
24750								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	96.87	H	113.97	-17.10	Peak	87.75	126.95	
2475	76.87	H	93.97	-17.10	Avg	87.75	126.95	
4950	54.16	H	73.97	-19.81	Peak	266.25	127.37	
4950	34.16	H	53.97	-19.81	Avg	266.25	127.37	
7425	43.59	H	73.97	-30.38	Peak	80.75	159.49	
7425	23.59	H	53.97	-30.38	Avg	80.75	159.49	
9900								No Emission
9900								Detected
12375								No Emission
12375								Detected
14850								No Emission
14850								Detected
17325								No Emission
17325								Detected
19800								No Emission
19800								Detected
22275								No Emission
22275								Detected
24750								No Emission
24750								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**High Channel**

**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	96.64	V	113.97	-17.33	Peak	15.25	127.49	
2475	76.64	V	93.97	-17.33	Avg	15.25	127.49	
4950	51.85	V	73.97	-22.12	Peak	289.00	207.55	
4950	31.85	V	53.97	-22.12	Avg	289.00	207.55	
7425	46.59	V	73.97	-27.38	Peak	65.50	127.31	
7425	26.59	V	53.97	-27.38	Avg	65.50	127.31	
9900								No Emission
9900								Detected
12375								No Emission
12375								Detected
14850								No Emission
14850								Detected
17325								No Emission
17325								Detected
19800								No Emission
19800								Detected
22275								No Emission
22275								Detected
24750								No Emission
24750								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**High Channel**

**Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	64.41	H	113.97	-49.56	Peak	263.50	210.59	
2475	44.41	H	93.97	-49.56	Avg	263.50	210.59	
4950	52.68	H	73.97	-21.29	Peak	300.00	127.49	
4950	32.68	H	53.97	-21.29	Avg	300.00	127.49	
7425	45.63	H	73.97	-28.34	Peak	194.50	127.55	
7425	25.63	H	53.97	-28.34	Avg	194.50	127.55	
9900								No Emission
9900								Detected
12375								No Emission
12375								Detected
14850								No Emission
14850								Detected
17325								No Emission
17325								Detected
19800								No Emission
19800								Detected
22275								No Emission
22275								Detected
24750								No Emission
24750								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

**High Channel  
 Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	94.26	V	113.97	-19.71	Peak	166.00	111.49	
2475	74.26	V	93.97	-19.71	Avg	166.00	111.49	
4950	52.85	V	73.97	-21.12	Peak	339.75	111.31	
4950	32.85	V	53.97	-21.12	Avg	339.75	111.31	
7425	48.15	V	73.97	-25.82	Peak	155.25	159.49	
7425	28.15	V	53.97	-25.82	Avg	155.25	159.49	
9900								No Emission
9900								Detected
12375								No Emission
12375								Detected
14850								No Emission
14850								Detected
17325								No Emission
17325								Detected
19800								No Emission
19800								Detected
22275								No Emission
22275								Detected
24750								No Emission
24750								Detected

**FCC 15.249**

Universal Electronics, Inc.  
 WOW! Experience RF4CE Remote 2016  
 Model: URC-2135BC0-R

Date: 09/13/2016  
 Lab: D  
 Tested By: Kyle Fujimoto

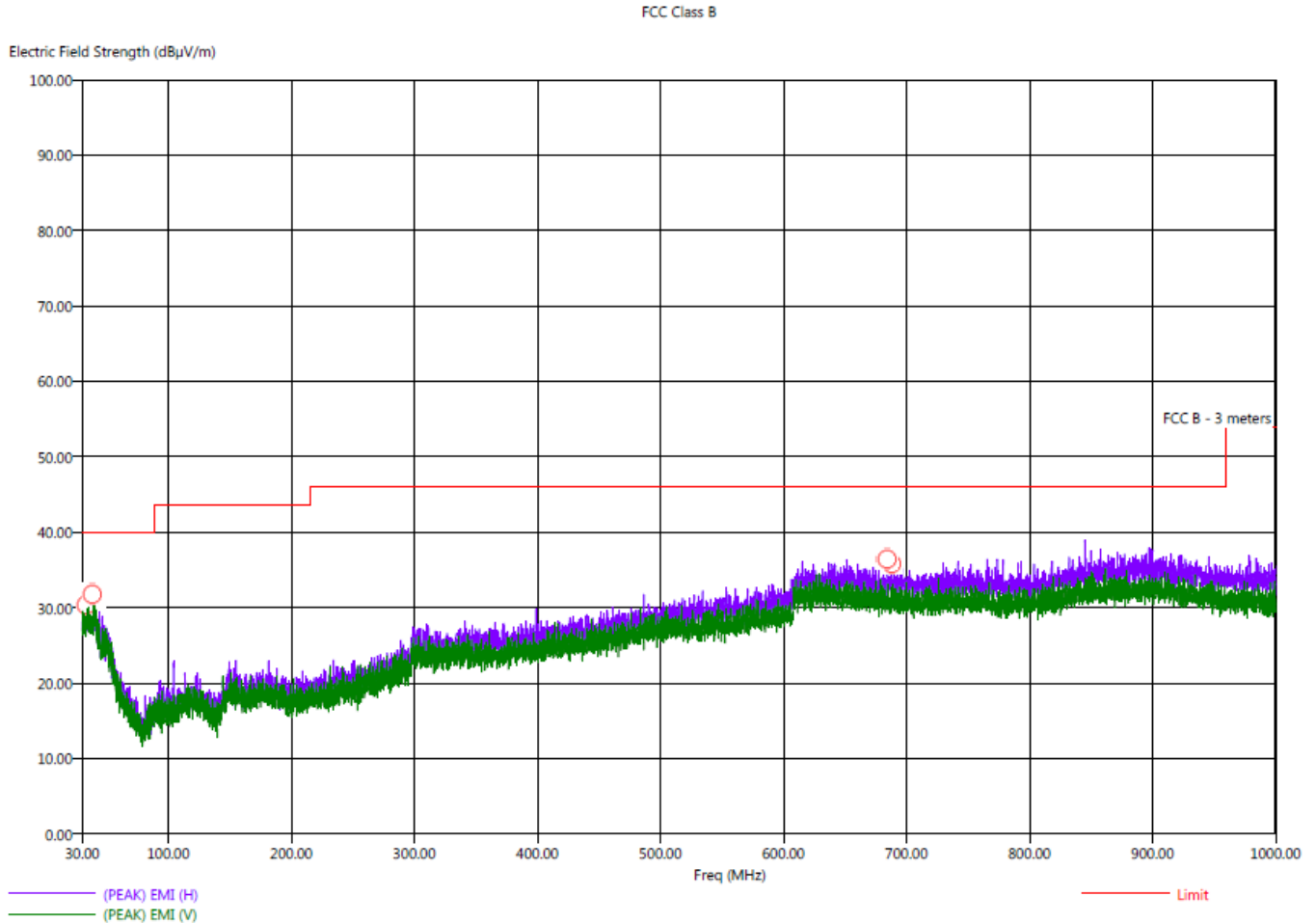
**High Channel  
 Z-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2475	95.97	H	113.97	-18.00	Peak	255.75	190.83	
2475	75.97	H	93.97	-18.00	Avg	255.75	190.83	
4950	55.41	H	73.97	-18.56	Peak	269.75	159.55	
4950	35.41	H	53.97	-18.56	Avg	269.75	159.55	
7425	46.04	H	73.97	-27.93	Peak	245.00	175.25	
7425	26.04	H	53.97	-27.93	Avg	245.00	175.25	
9900								No Emission
9900								Detected
12375								No Emission
12375								Detected
14850								No Emission
14850								Detected
17325								No Emission
17325								Detected
19800								No Emission
19800								Detected
22275								No Emission
22275								Detected
24750								No Emission
24750								Detected



Title: Pre-Scan - FCC Class B  
File: Agilent - Pre-Scan - FCC Class B - 30 MHz to 1000 MHz - X-Axis.set  
Operator: Kyle Fujimoto  
EUT Type: WOW! Experience RF4CE Remote 2016  
EUT Condition: The EUT is continuously transmitting at the low channel - X-axis  
Comments: Company: Universal Electronics, Inc.  
Model: URC-2135BC0-X-R

9/14/2016 8:43:48 AM  
Sequence: Preliminary Scan



\*No Emissions were found between 10 kHz and 30 MHz

\*No Emissions were found between 1 GHz and 25 GHz

Title: Radiated Final - FCC Class B  
 File: Agilent - Final Scan - FCC Class B - 30 MHz to 1000 MHz - X-Axis Worst Case.set  
 Operator: Kyle Fujimoto  
 EUT Type: WOW! Experience RF4CE Remote 2016  
 EUT Condition: The EUT is continuously transmitting at the low channel - X-Axis  
 Comments: Company: Universal Electronics, Inc.  
 Model: URC-2135BC0-X-R  
 X-Axis is Worst Case

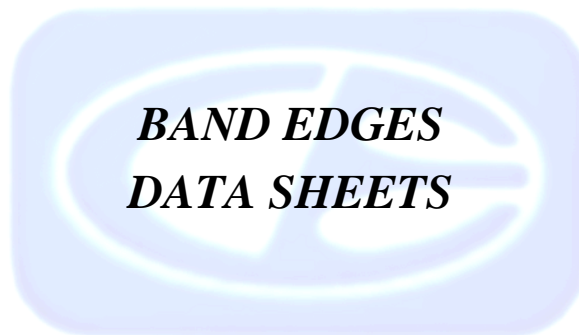
9/14/2016 9:12:56 AM  
 Sequence: Final Measurements

FCC Class B											
Freq (MHz)	Pol	(PEAK) EMI (dBµV/m)	(QP) EMI (dBµV/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dBµV/m)	Transducer (dB)	Cable (dB)	Ttbl Aql (dea)	Twr Ht (cm)	
33.60	H	31.35	26.35	-8.65	-13.65	40.00	24.21	0.36	268.25	319.85	
37.00	H	31.42	26.72	-8.58	-13.28	40.00	24.78	0.38	137.75	320.44	
38.90	V	32.81	27.18	-7.19	-12.82	40.00	25.20	0.39	163.75	285.04	
40.20	H	33.00	27.25	-7.00	-12.75	40.00	25.31	0.39	80.75	111.67	
684.20	H	35.81	30.73	-10.19	-15.27	46.00	24.09	2.12	210.75	399.85	
687.80	H	36.54	30.64	-9.46	-15.36	46.00	24.07	2.13	8.25	190.29	

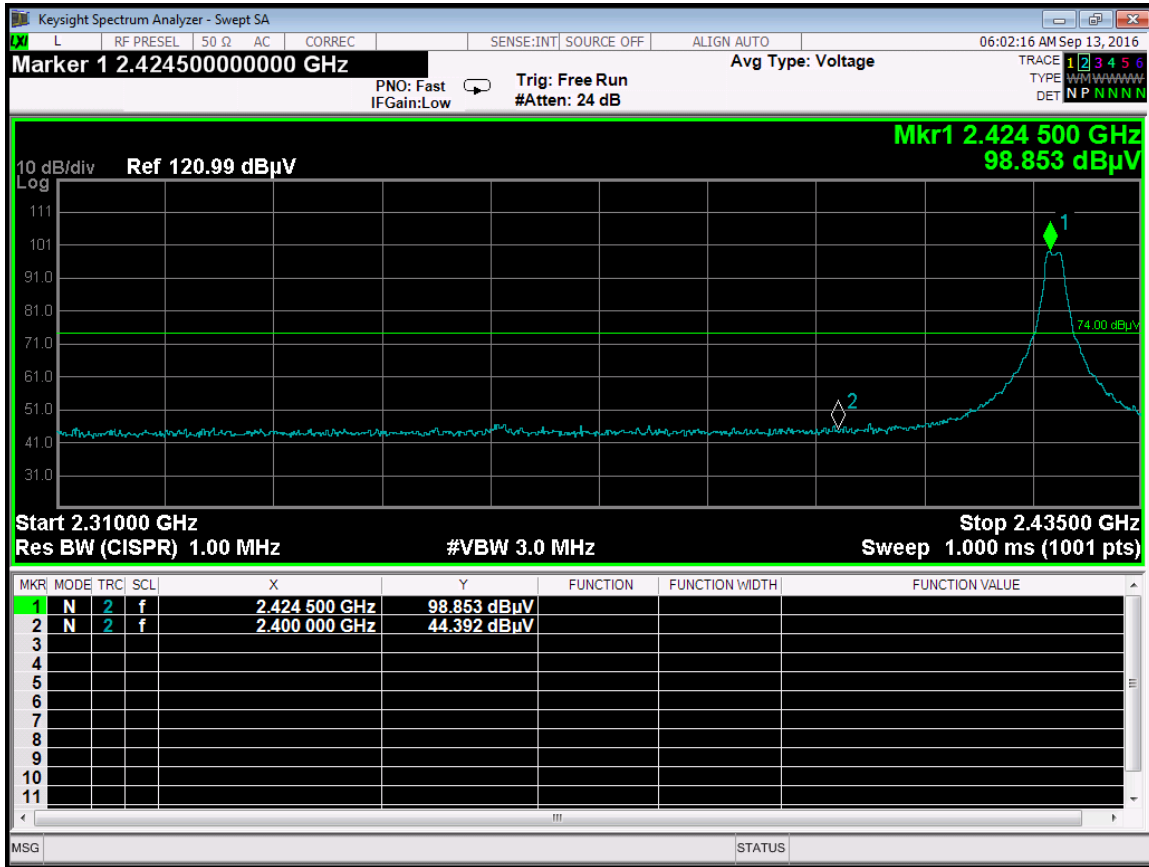
\*No Emissions were found between 10 kHz and 30 MHz

\*No Emissions were found between 1 GHz and 25 GHz

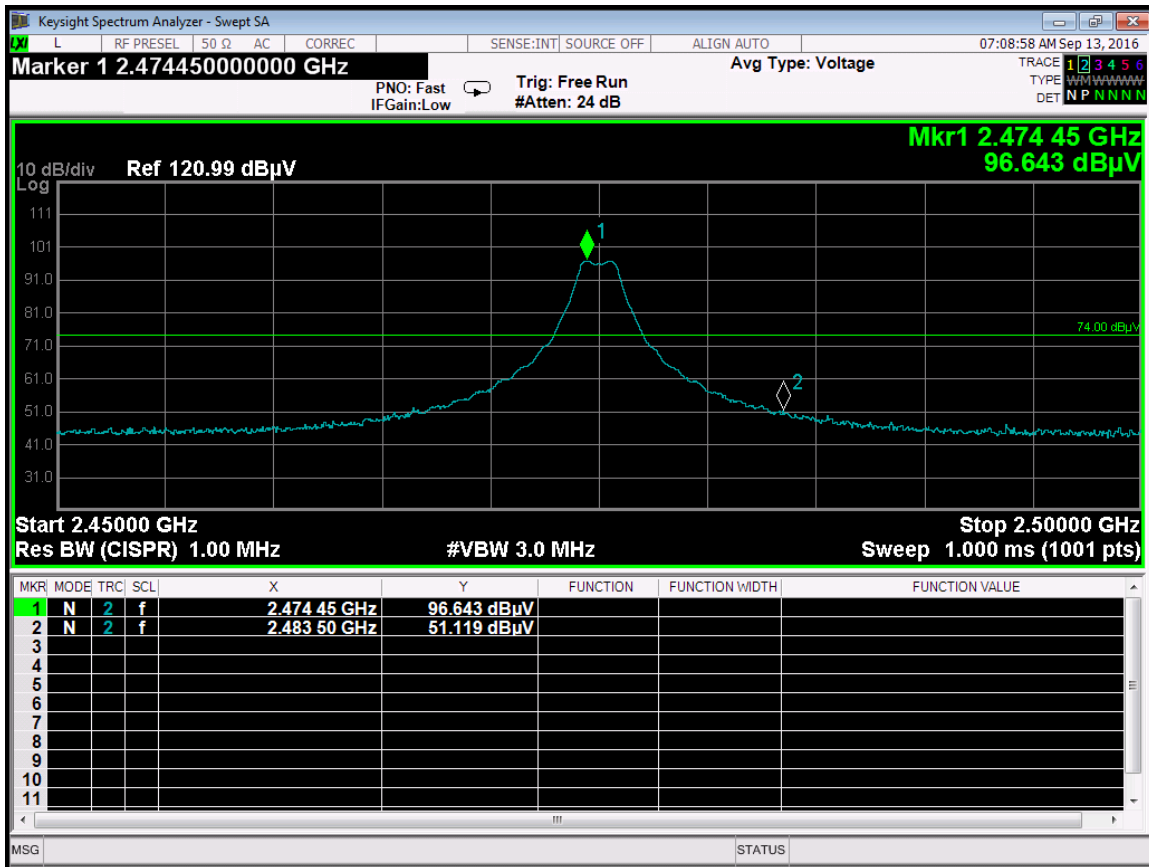




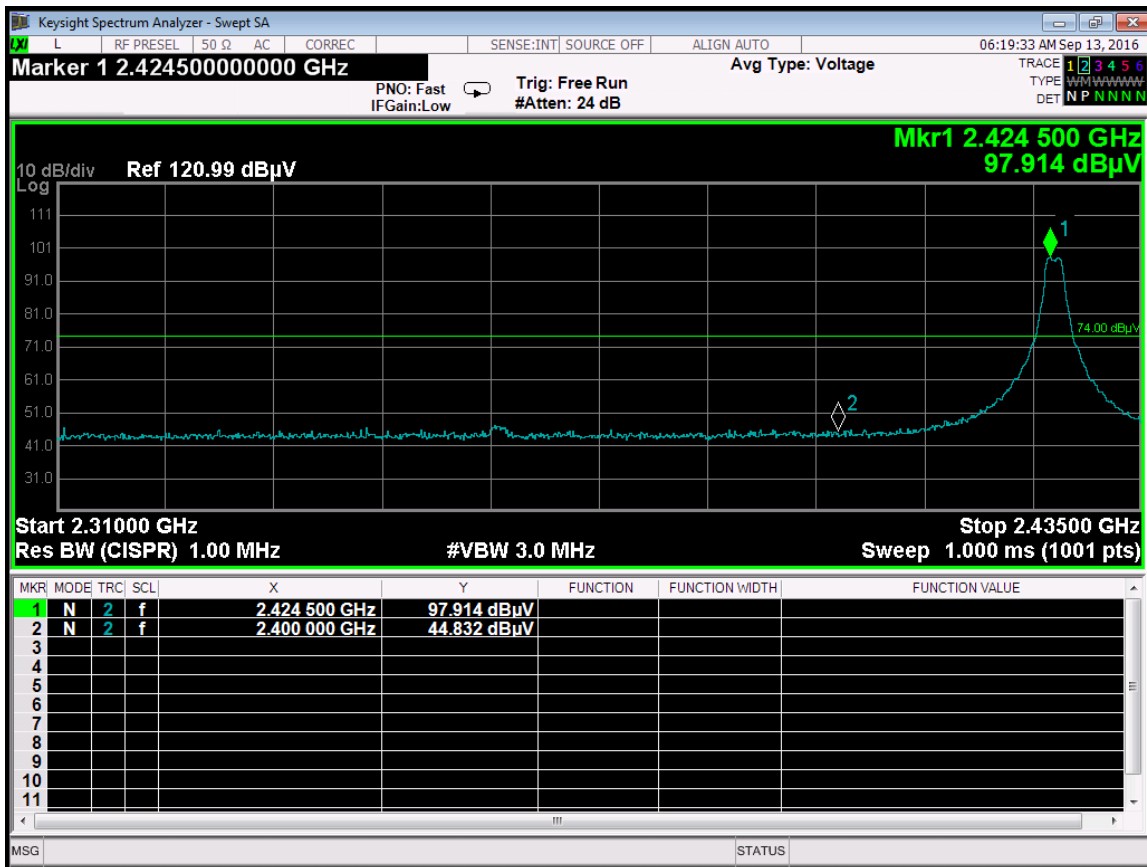




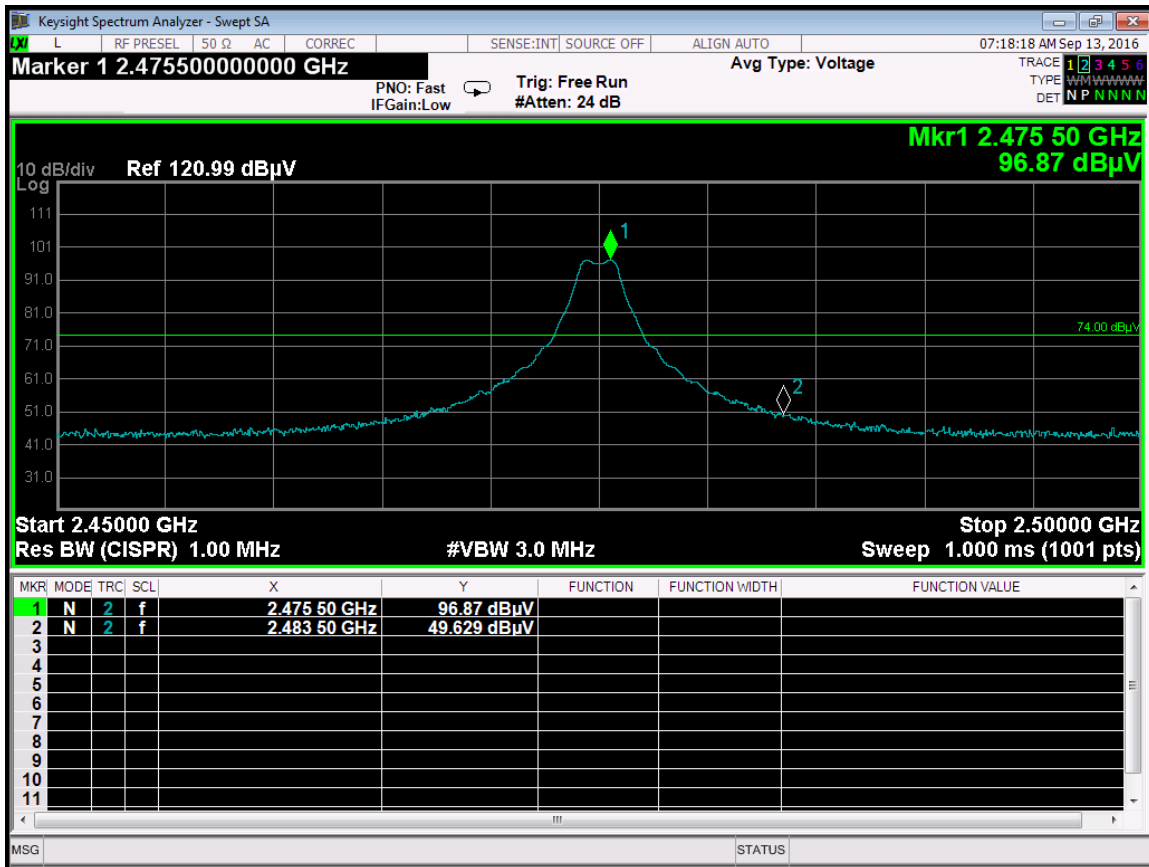
Band Edge – Vertical Polarization – Low Channel – Model: URC-2135BC0-R – Y-Axis Worst Case



Band Edge – Vertical Polarization – High Channel – Model: URC-2135BC0-R – Y-Axis Worst Case

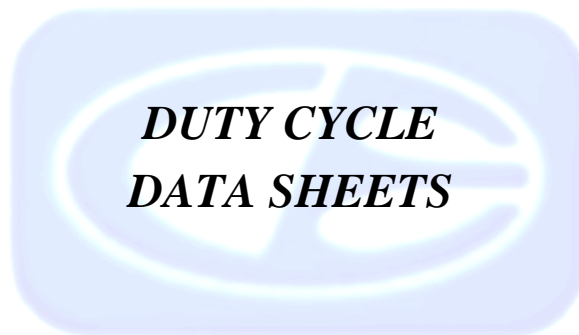


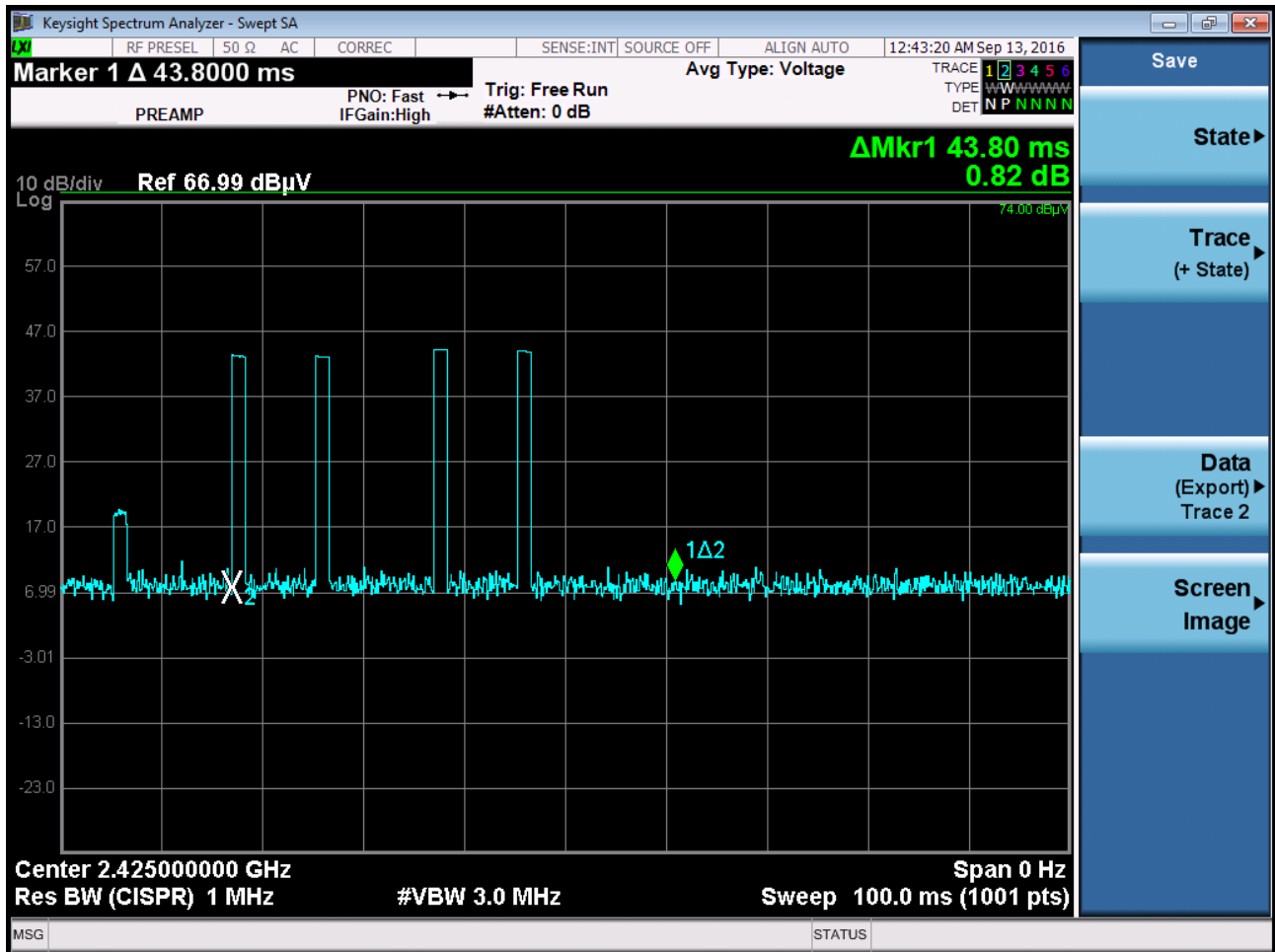
Band Edge – Horizontal Polarization – Low Channel – Model: URC-2135BC0-R – X-Axis Worst Case



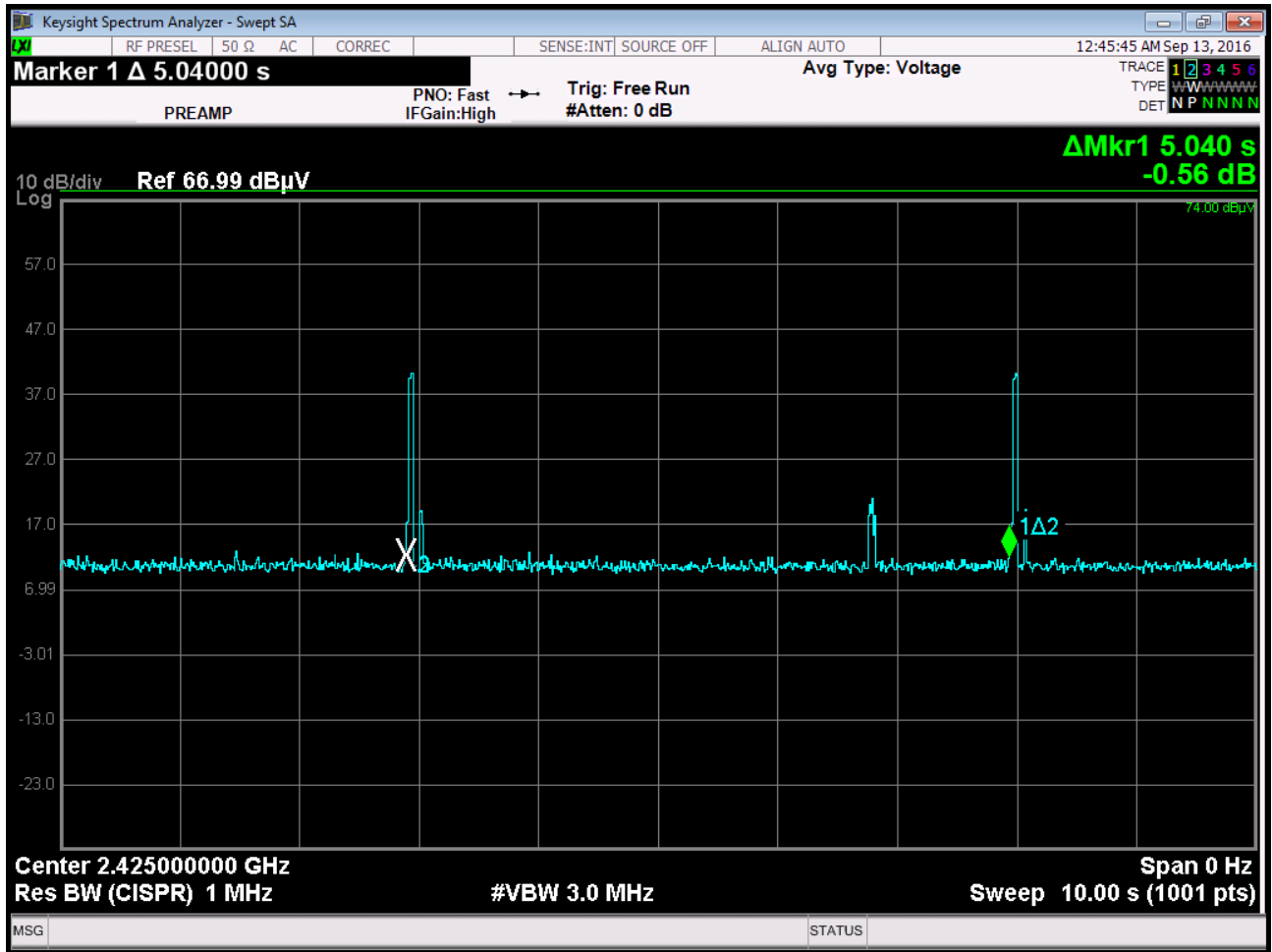
Band Edge – Horizontal Polarization – High Channel – Model: URC-2135BC0-R – X-Axis Worst Case



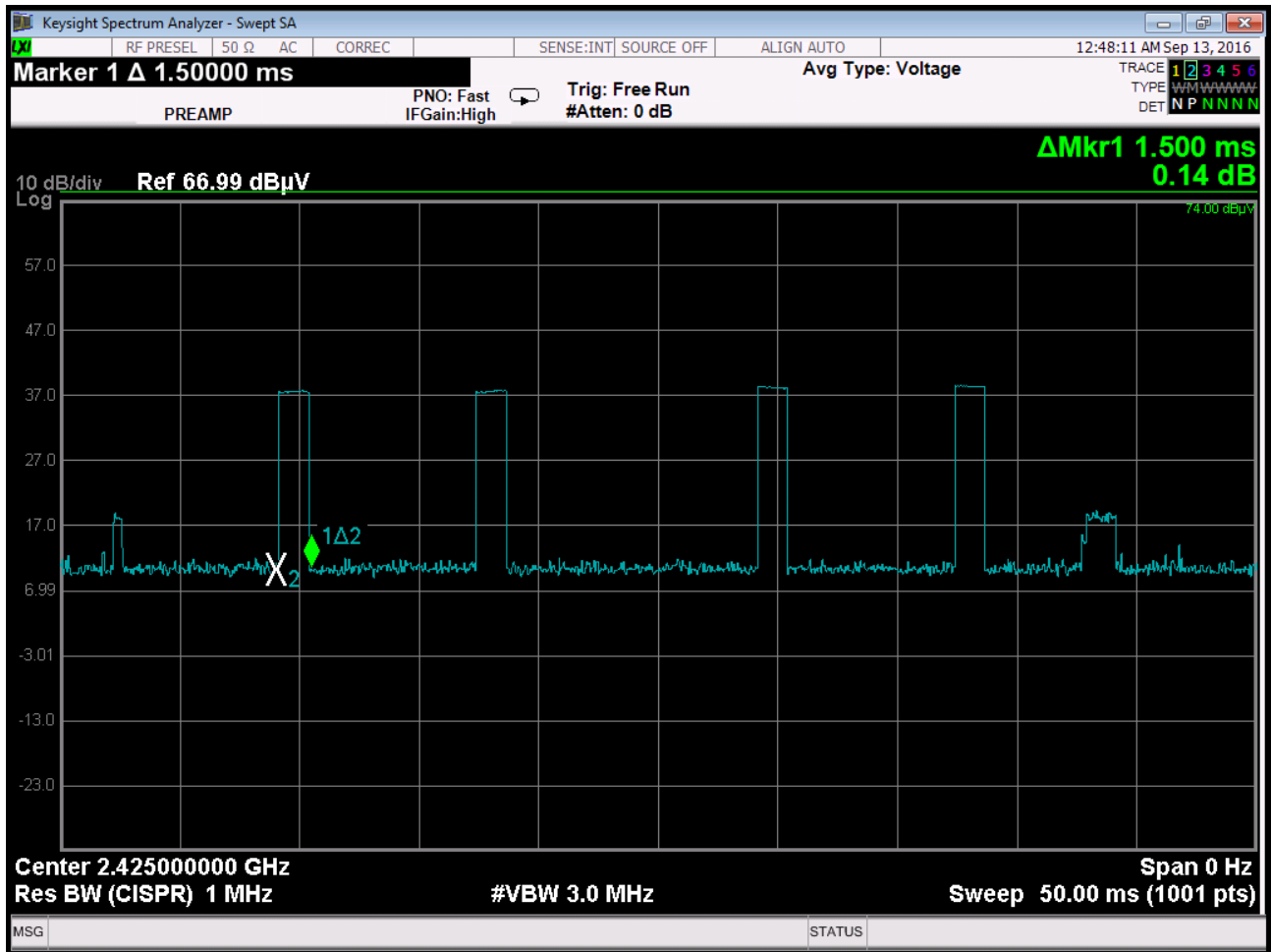




One Pulse Train is 4 Pulses – Advertising Mode



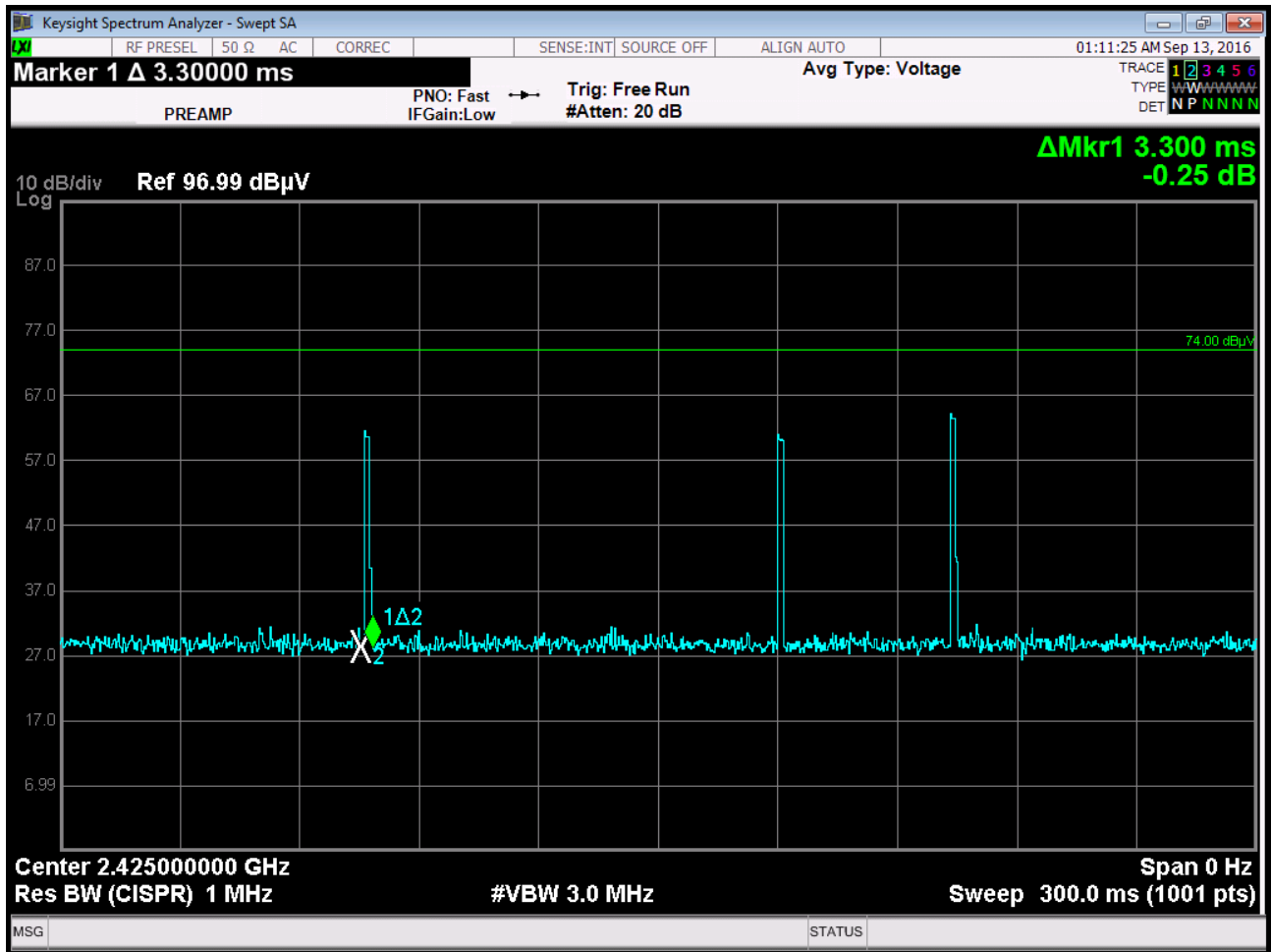
Time Between Pulse Trains is 5.040 seconds – Advertising Mode



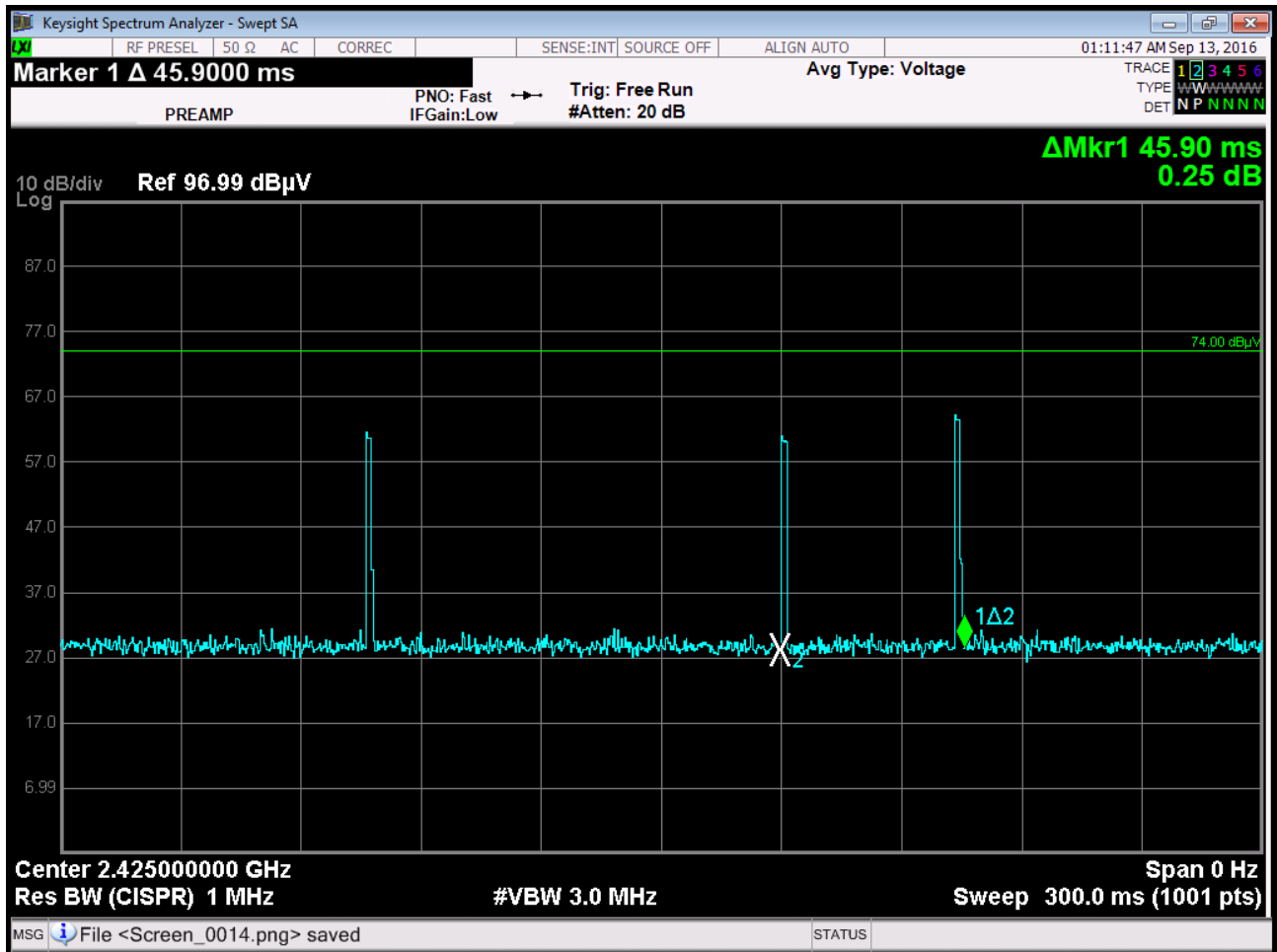
Time of One Pulse is 1.5 ms – Advertising Mode

$$\text{Duty Cycle} = (1.5 \text{ ms} * 4 / 100 \text{ ms}) = 6.00\%$$

The maximum -20 dB Peak to Average Ratio can be utilized.



Time of One Pulse – 3.3 ms – Data Mode



Worst Case 45.9 ms between pulses

$$\text{Duty Cycle} = (3.3 \text{ ms} / 45.9 \text{ ms}) = 7.19\%$$

The maximum -20 dB Peak to Average Ratio can be utilized.