



Engineering Solutions & Electromagnetic Compatibility Services

**Limited Modular Approval Certification Application Report  
FCC Part 15.249 & Industry Canada RSS-210**

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<b>FCC ID:</b>	R4WRCQR01	<b>Test Report Date:</b>	May 5, 2014
<b>IC:</b>	5994A-RCQR01	<b>RTL Work Order #:</b>	2014063
<b>Platform:</b>	N/A	<b>RTL Quote #:</b>	QRTL14-063A
<b>Model:</b>	RCQR01		
<b>American National Standard Institute:</b>	ANSI C63.4-2003: Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz		
<b>FCC Classification:</b>	DXT – Part 15 Low Power Transceiver		
<b>FCC Rule Part(s)/ Guidance:</b>	15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz; October 1, 2013		
<b>Industry Canada:</b>	RSS-210 Issue 8: License-Exempt Radio Apparatus (All Frequency Bands): Category I Equipment		
<b>Digital Interface Information:</b>	Digital Interface was found to be compliant		
<b>Frequency Range (MHz)</b>	<b>Output Power (W)</b>	<b>Frequency Tolerance</b>	<b>Emission Designator</b>
2401 – 2482	N/A	N/A	1M04KFXD

I, the undersigned, hereby declare that the equipment tested and referenced in this report conforms to the identified standard(s) as described in this test report. No modifications were made to the equipment during testing in order to achieve compliance with these standards. Furthermore, there was no deviation from, additions to, or exclusions from, the applicable parts of FCC Part 2, FCC Part 15, RSS-210, and ANSI C63.4.

Signature: 

Date: May 5, 2014

Typed/Printed Name: Desmond A. Fraser

Position: President

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*These tests are accredited and meet the requirements of ISO/IEC 17025 as verified by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1445.*

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## 1 General Information

### 1.1 Scope

This is an original certification application request for Limited Modular Approval.

Applicable Standards:

- FCC Part 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz
- Industry Canada RSS-210: Low Power License-Exempt Communications Devices

### 1.2 Description of EUT

<b>Equipment Under Test</b>	Transceiver
<b>Model</b>	RCQR01
<b>Power Supply</b>	3VDC, 2 AAA 1.5 VDC cells
<b>Modulation Type</b>	GFSK
<b>Frequency Range</b>	2401 – 2482 MHz
<b>Antenna Connector Type</b>	PCB Trace type
<b>Antenna Type</b>	Internal

### 1.3 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located at 360 Herndon Parkway, Suite 1400, Herndon, Virginia 20170. This site has been fully described in a report and approved by the Federal Communications Commission to perform AC line conducted and radiated emissions testing (ANSI C63.4-2003).

### 1.4 Related Submittal(s)/Grant(s)

This is an original certification application for Limited Modular Approval for Turning Technologies, LLC, Model: RCQR01, FCC ID: R4WRCQR01, IC: 5994A-RCQR01.

### 1.5 Modifications

No modifications were made to the equipment during testing in order to achieve compliance with these standards.

## 2 Test Information

### 2.1 Description of Test Modes

In accordance with FCC 15.31(m), and because the EUT utilizes an operating band greater than 10 MHz, the following frequencies were tested:

**Table 2-1: Channels Tested**

Channel	Frequency
Low	2401
Middle	2441
High	2482

### 2.2 Exercising the EUT

The EUT was supplied with test firmware programmed with a high, mid, and low channel for testing as well as a low, mid, and high power. The EUT was tested in all three orthogonal planes in order to determine worst-case emissions. The EUT was provided with software to continuously transmit during testing. The carrier was also checked to verify that information was being transmitted. Four power levels were available for testing.

### 2.3 Test Result Summary

**Table 2-2: Test Result Summary – FCC Part 15, Subpart C (Section 15.249)**

Standard	Test	Pass/Fail or N/A
FCC 15.207	AC Power Conducted Emissions	N/A
FCC 15.209	Radiated Emissions	Pass
FCC 15.249(a)	Field Strength of Fundamental and Harmonics	Pass
RSS-Gen	20 dB Bandwidth	Pass

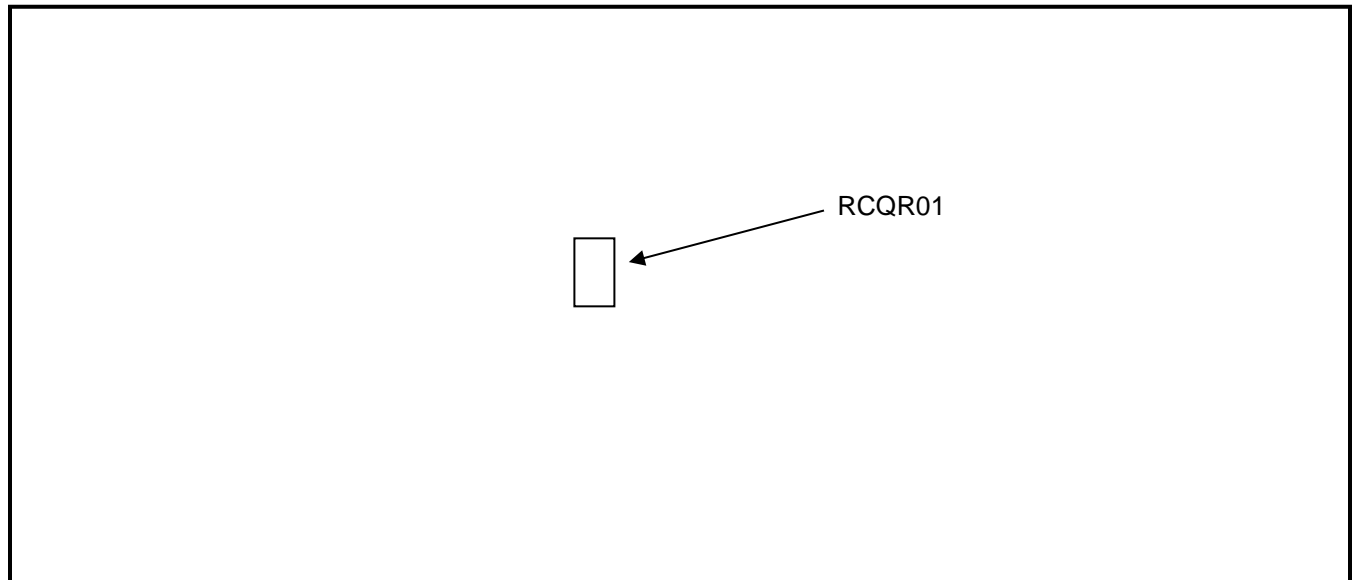
## 2.4 Test System Details

The test samples were received on April 17, 2014. The FCC identifiers for all applicable equipment, plus descriptions of all cables used in the tested system, are identified in the following table.

**Table 2-3: Equipment Under Test**

Part	Manufacturer	Model	Serial Number	FCC ID	Cable Description	RTL Bar Code
Transceiver	Fleetwood Group, Inc.	RCQR01	FCC1	R4WRCQR01	N/A	21123

## 2.5 Configuration of Tested System



**Figure 2-1: Configuration of System Under Test**

### 3 Duty Cycle Calculation - FCC §15.35(c), RSS-Gen §4.3

A standard transmission consists of a 277.5  $\mu$ s data packet within a 100 ms transmission period. Therefore, the maximum aggregate on time within a transmission period of 100 ms is

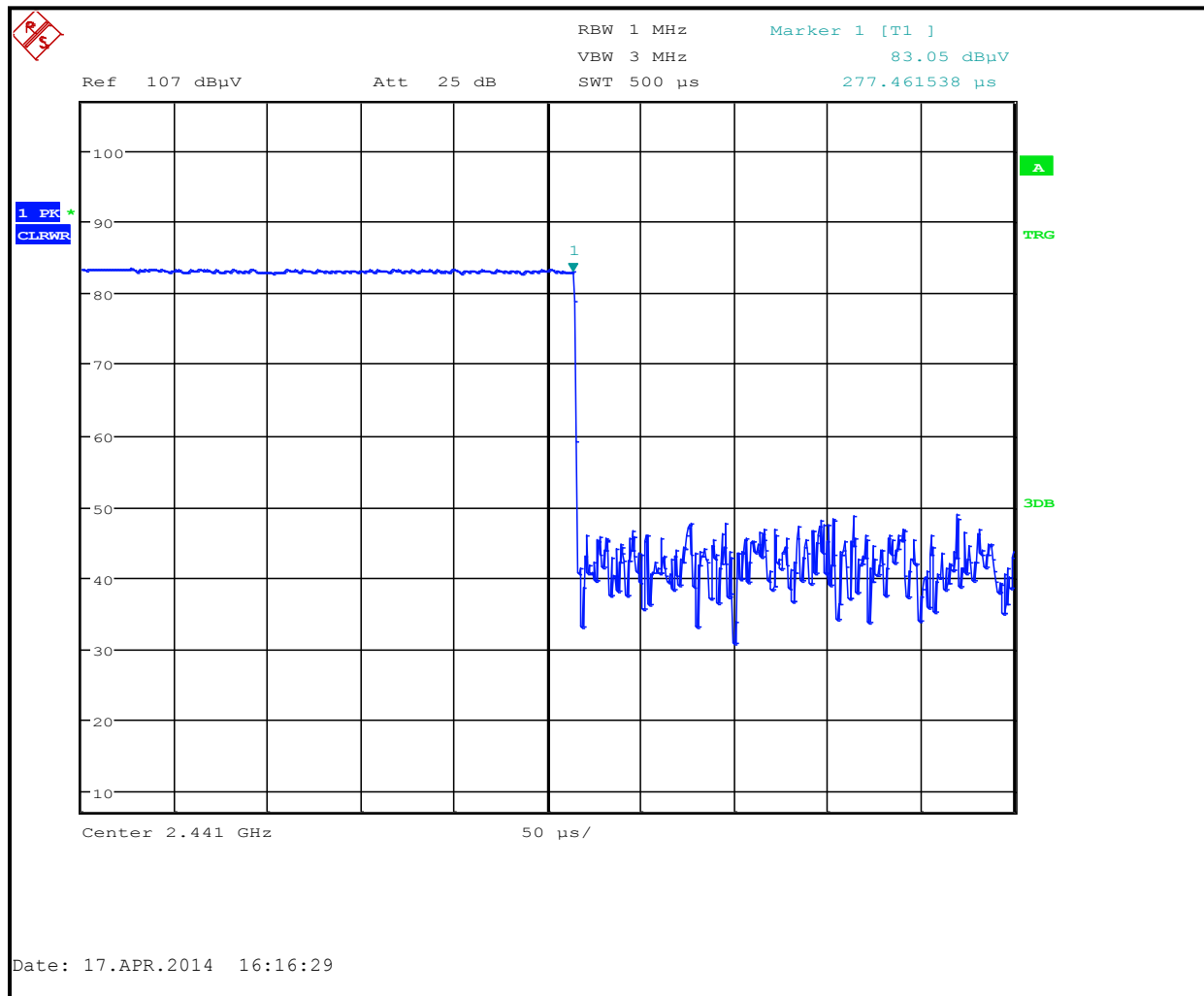
On time in 100 ms =  $0.2775 \times 12 \text{ pulses} = 3.33 \text{ ms}$  and  $20 \log(3.33/100) = -29.6 \text{ dB}$

The duty cycle correction is 29.6 dB.

**Table 3-1: Duty Cycle Test Equipment**

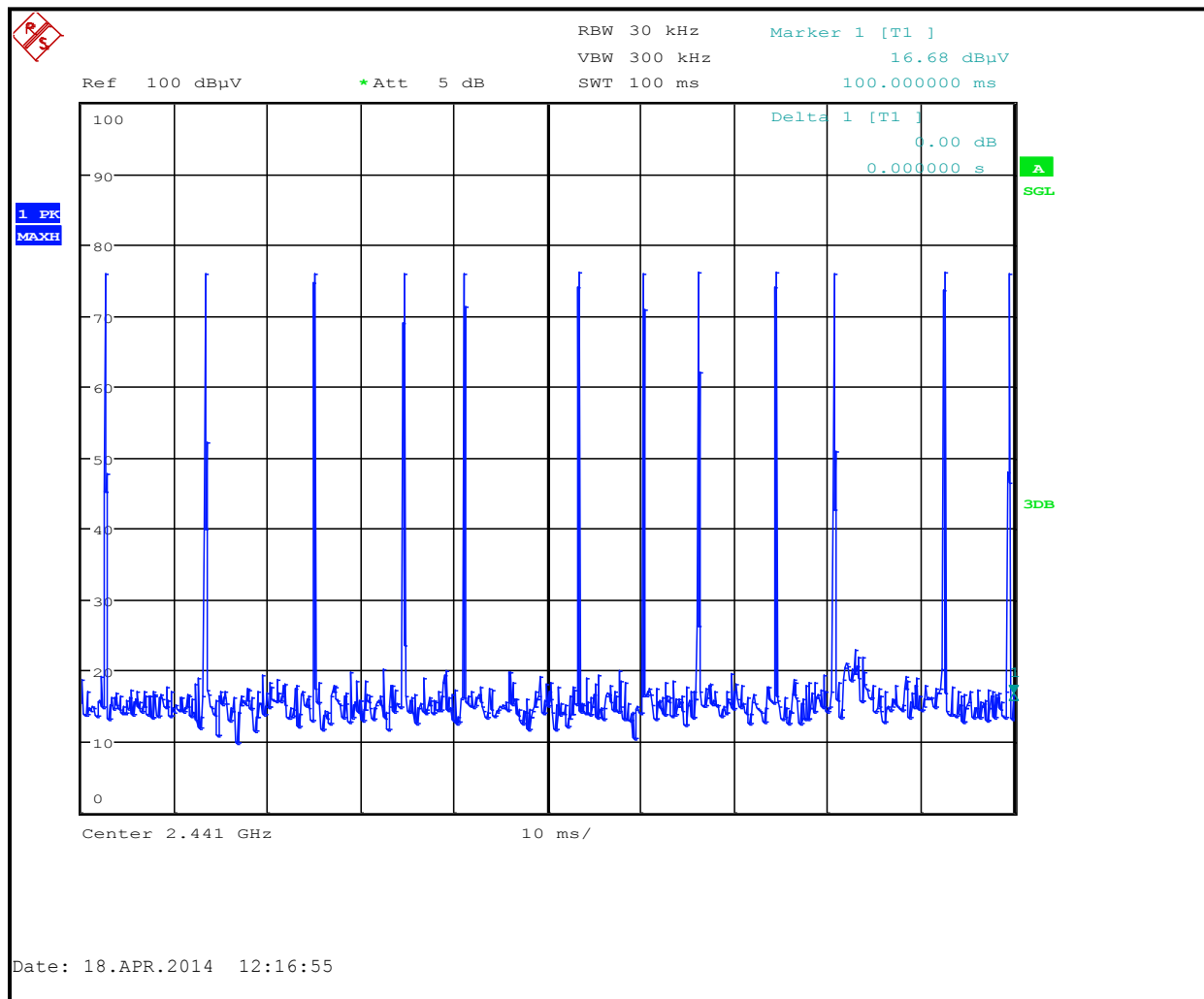
RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901581	Rohde & Schwarz	FSU	Spectrum Analyzer	1166.1660.50	3/4/15

**Plot 3-1: Duty Cycle On Time; 277.5  $\mu$ s**





**Plot 3-2: Number of Pulses in 100 ms (12)**



**Test Personnel:**

Daniel W. Baltzell  
Test Engineer

Signature

April 17 & 18, 2014  
Dates of Test

#### 4 Radiated Emissions – FCC §15.209, §15.249(a); RSS-210 §A2.9; RSS-Gen

##### 4.1 Limits of Radiated Emissions Measurement

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009-0.490	2400/f (kHz)	300
0.490-1.705	2400/f (kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any circumstances of modulation.

##### 4.2 Radiated Emissions Measurement Test Procedure

Before final measurements of radiated emissions were made on the open-field three/ten meter range, the EUT was scanned indoors at one and three meter distances. This was done in order to determine its emissions spectrum signature. The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. This process was repeated during final radiated emissions measurements on the open-field range, at each frequency, in order to ensure that maximum emission amplitudes were attained.

Final radiated emissions measurements were made on the three/ten-meter, open-field test site. The EUT was placed on a nonconductive turntable 0.8 meters above the ground plane. The spectrum was examined from 9 kHz to the 10<sup>th</sup> harmonic of the highest fundamental transmitter frequency (24.8 GHz).

At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the emission's maximum level. Measurements were taken using both horizontal and vertical antenna polarizations. For frequencies between 30 and 1000 MHz, the spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. For emissions above 1000 MHz, emissions are measured using the average detector function with a minimum resolution bandwidth of 1 MHz. No video filter less than 10 times the resolution bandwidth was used. The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

**Table 4-1: Radiated Emissions Test Equipment**

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900151	Rohde and Schwarz	HFH2-Z2	Loop Antenna (9 kHz-30 MHz)	827525/019	3/4/15
900932	Hewlett Packard	8449B OPT H02	Preamplifier (1-26.5 GHz)	3008A00505	8/27/14
900905	Rhein Tech Laboratories	PR-1040	OATS 1 Preamplifier 40dB (30 MHz-2 GHz)	1006	9/4/14
900878	Rhein Tech Laboratories	AM3-1197-0005	3 meter antenna mast, polarizing	Outdoor Range 1	Not Required
901592	Insulated Wire Inc.	KPS-1503-3600-KPR	SMK RF Cables 20'	NA	8/27/14
901593	Insulated Wire Inc.	KPS-1503-360-KPR	SMK RF Cables 36"	NA	8/27/14
901242	Rhein Tech Laboratories	WRT-000-0003	Wood rotating table	N/A	Not Required
900913	Hewlett Packard	85462A	EMI Receiver RF Section (9 kHz-6.5 GHz)	3325A00159	11/14/14
900914	Hewlett Packard	85460A	RF Filter Section (100 kHz-6.5 GHz)	3330A00107	11/14/14
900772	EMCO	3161-02	Horn Antenna (2-4 GHz)	9804-1044	4/20/15
900321	EMCO	3161-03	Horn Antenna (4.0-8.2 GHz)	9508-1020	4/20/15
900323	EMCO	3160-07	Horn Antenna (8.2-12.4 GHz)	9605-1054	4/20/15
900356	EMCO	3160-08	Horn Antenna (12.4-18 GHz)	9607-1044	4/20/15
901218	EMCO	3160-09	Horn Antenna (18-26.5 GHz)	960281-003	4/19/15
901581	Rohde & Schwarz	FSU	Spectrum Analyzer	1166.1660.50	3/4/15
900724	Antenna Research Associates, Inc.	LPB-2520	BiLog Antenna (25-1000 MHz)	1037	4/19/14

### 4.3 Radiated Emissions Test Results

**Table 4-2: Radiated Emissions Test Data**

Emission Frequency (MHz)	Peak Analyzer Reading (dBuV/m) (1 MHz RBW/VBW)	Site Correction Factor (dB/m)	Peak Corrected (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)	Calculated Average (dBuV/m) (-29.6 dB)	Average Limit (dBuV/m)	Average Margin (dB)
2401.0	112.6	-10.4	102.2	114.0	-11.8	72.6	94.0	-21.4
2441.0	112.2	-10.2	102.0	114.0	-12.0	72.4	94.0	-21.6
2482.0	111.9	-10.0	101.9	114.0	-12.1	72.3	94.0	-21.7

\* testing performed at 3m

### 4.4 Radiated Emissions Harmonics/Spurious Test Data

**Table 4-3: Radiated Emissions Harmonics/Spurious - 2401 MHz**

Emission Frequency (MHz)	Peak Analyzer Reading (dBuV/m) (1 MHz RBW/VBW) 1m	Site Correction Factor (dB/m)	Peak Corrected (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)	Calculated Average (dBuV/m) (-29.6 dB)	Average Limit (dBuV/m)	Average Margin (dB)
4802.0	55.9	-1.1	54.8	74.0	-19.2	25.2	54.0	-28.8
7203.0	41.8	0.8	42.6	74.0	-31.4	13.0	54.0	-41.0
9604.0	29.9	6.7	36.6	74.0	-37.4	7.0	54.0	-47.0
12005.0	21.8	9.8	31.6	74.0	-42.4	2.0	54.0	-52.0
14406.0	14.2	14.8	29.0	74.0	-45.0	-0.6	54.0	-54.6
16807.0	11.4	16.2	27.6	74.0	-46.4	-2.0	54.0	-56.0
19208.0	4.5	20.6	25.1	74.0	-48.9	-4.5	54.0	-58.5
21609.0	6.6	21.8	28.4	74.0	-45.6	-1.2	54.0	-55.2
24010.0	5.8	20.4	26.2	74.0	-47.8	-3.4	54.0	-57.4

**Table 4-4: Radiated Emissions Harmonics/Spurious - 2441 MHz**

Emission Frequency (MHz)	Peak Analyzer Reading (dBuV/m) (1 MHz RBW/VBW) 1m	Site Correction Factor (dB/m)	Peak Corrected (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)	Calculated Average (dBuV/m) (-29.6 dB)	Average Limit (dBuV/m)	Average Margin (dB)
4882.0	51.8	-1.0	50.8	74.0	-23.2	21.2	54.0	-32.8
7323.0	42.5	0.9	43.4	74.0	-30.6	13.8	54.0	-40.2
9764.0	31.4	6.9	38.3	74.0	-35.7	8.7	54.0	-45.3
12205.0	18.3	11.2	29.5	74.0	-44.5	-0.1	54.0	-54.1
14646.0	9.8	14.8	24.6	74.0	-49.4	-5.0	54.0	-59.0
17087.0	10.0	16.7	26.7	74.0	-47.3	-2.9	54.0	-56.9
19528.0	4.1	20.2	24.3	74.0	-49.7	-5.3	54.0	-59.3
21969.0	5.3	22.0	27.3	74.0	-46.7	-2.3	54.0	-56.3
24410.0	6.6	21.2	27.8	74.0	-46.2	-1.8	54.0	-55.8

**Table 4-5: Radiated Emissions Harmonics/Spurious - 2482 MHz**

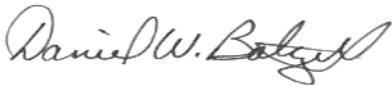
Emission Frequency (MHz)	Peak Analyzer Reading (dBuV/m) (1 MHz RBW/VBW) 1m	Site Correction Factor (dB/m)	Peak Corrected (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)	Calculated Average (dBuV/m) (-29.6 dB)	Average Limit (dBuV/m)	Average Margin (dB)
4964.0	48.4	-0.9	47.5	74.0	-26.5	17.9	54.0	-36.1
7446.0	42.8	1.1	43.9	74.0	-30.1	14.3	54.0	-39.7
9928.0	32.7	7.0	39.7	74.0	-34.3	10.1	54.0	-43.9
12410.0	18.5	12.7	31.2	74.0	-42.8	1.6	54.0	-52.4
14892.0	9.3	15.1	24.4	74.0	-49.6	-5.2	54.0	-59.2
17374.0	7.6	16.5	24.1	74.0	-49.9	-5.5	54.0	-59.5
19856.0	5.1	20.6	25.7	74.0	-48.3	-3.9	54.0	-57.9
22338.0	6.0	21.8	27.8	74.0	-46.2	-1.8	54.0	-55.8
24820.0	5.6	22.5	28.1	74.0	-45.9	-1.5	54.0	-55.5

#### 4.5 Radiated Emissions Digital Test Data

**Table 4-6: Digital Radiated Emissions Test Data**

Temperature: 55°F Humidity: 45%										
Emission Frequency (MHz)	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth (deg)	Antenna Height (m)	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pass/Fail
138.622	Qp	V	0	1.0	46.2	-30.7	15.5	43.5	-28.0	Pass
1373.141	Av	V	170	1.0	28.4	-14.0	14.4	54.0	-39.6	Pass
2746.282	Av	H	180	1.0	48.1	-9.1	39.0	54.0	-15.0	Pass
1395.998	Av	H	190	1.0	18.5	-13.6	4.9	54.0	-49.1	Pass
2791.996	Av	H	180	1.0	46.8	-9.1	37.7	54.0	-16.3	Pass
1419.428	Av	H	180	1.0	18.4	-13.5	4.9	54.0	-49.1	Pass
2838.856	Av	H	180	1.0	46.3	-9.1	37.2	54.0	-16.8	Pass

**Test Personnel:**

Daniel W. Baltzell Test Engineer	 Signature	April 18-22, 2014 Dates of Test
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**5 AC Conducted Emissions - FCC §15.207; RSS-Gen §7.2.4: Conducted Limits**

No Conducted tests are required since the device is powered solely by a 2 1.5VDC AAA size cells.

**6 20 dB Bandwidth – IC RSS-Gen**

**6.1 20 dB Bandwidth Test Procedure**

The minimum 20 dB bandwidths per RSS-Gen were measured using a 50-ohm spectrum analyzer. The modulated carrier was adjusted on the analyzer so that it was displayed entirely on the spectrum analyzer. The sweep time was auto and allowed through several sweeps with the max hold function used in peak detector mode. The resolution bandwidth was set to 100 kHz, and the video bandwidth set to 1 MHz. The table below contains the bandwidth measurement results.

**Table 6-1: 20 dB Bandwidth Test Equipment**

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901581	Rohde & Schwarz	FSU	Spectrum Analyzer	1166.1660.50	3/4/15

**6.2 20 dB Modulated Bandwidth Test Data**

**Table 6-2: 20 dB Modulated Bandwidth – Narrow Pulse Width**

**Minimum 20 dB bandwidths Narrow Pulse Width**

Channel	20 dB Bandwidth (kHz)
1	897.4
41	903.8
82	910.3

**Table 6-3: 20 dB Modulated Bandwidth – Wide Pulse Width**

**Minimum 20 dB bandwidths Wide Pulse Width**

Channel	20 dB Bandwidth (MHz)
1	1.04
41	1.03
82	1.03

### 6.3 20 dB Bandwidth Plots

Plot 6-1: 20 dB Bandwidth; 2401 MHz; Narrow Pulse Width

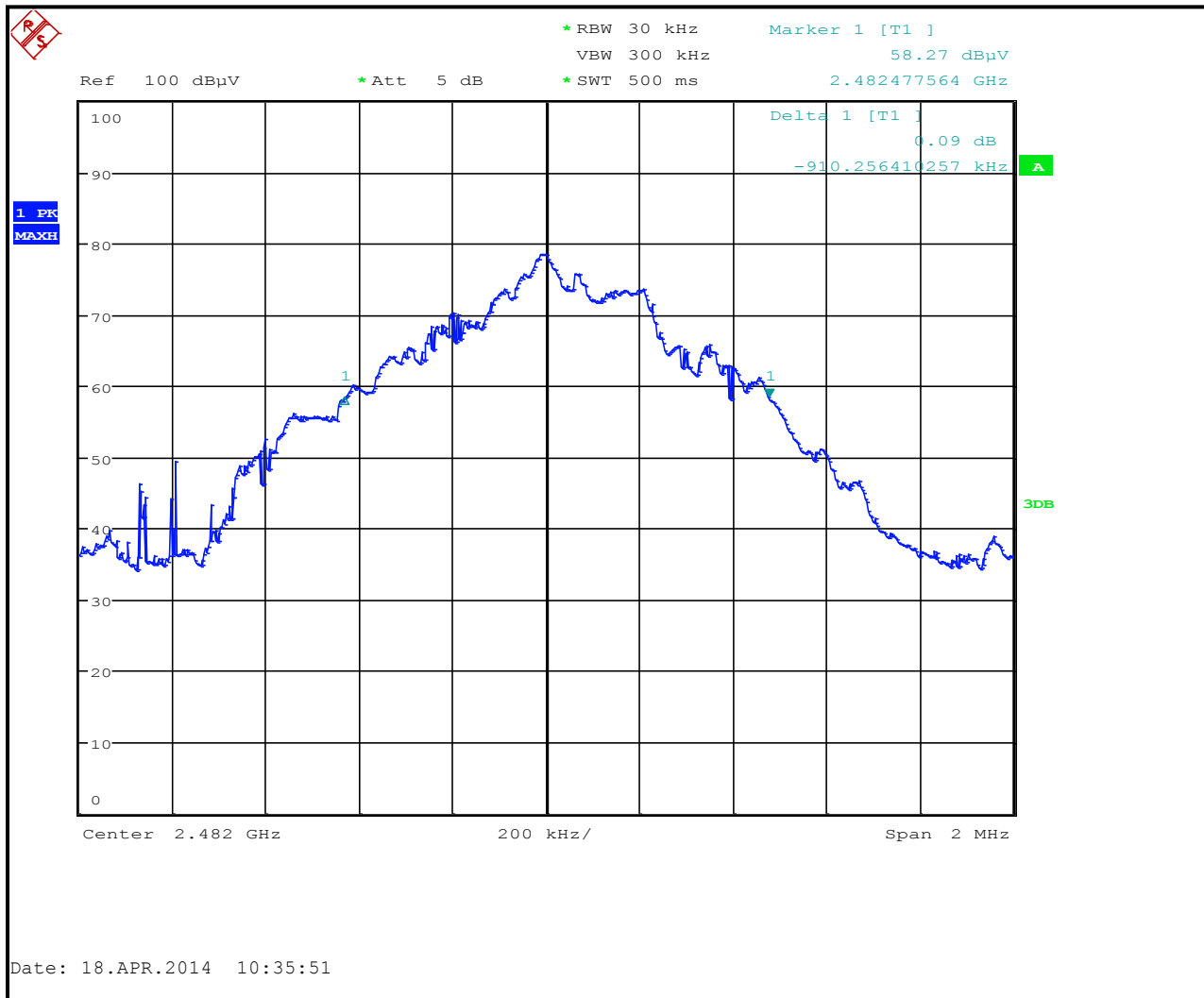




**Plot 6-2: 20 dB Bandwidth; 2441 MHz; Narrow Pulse Width**



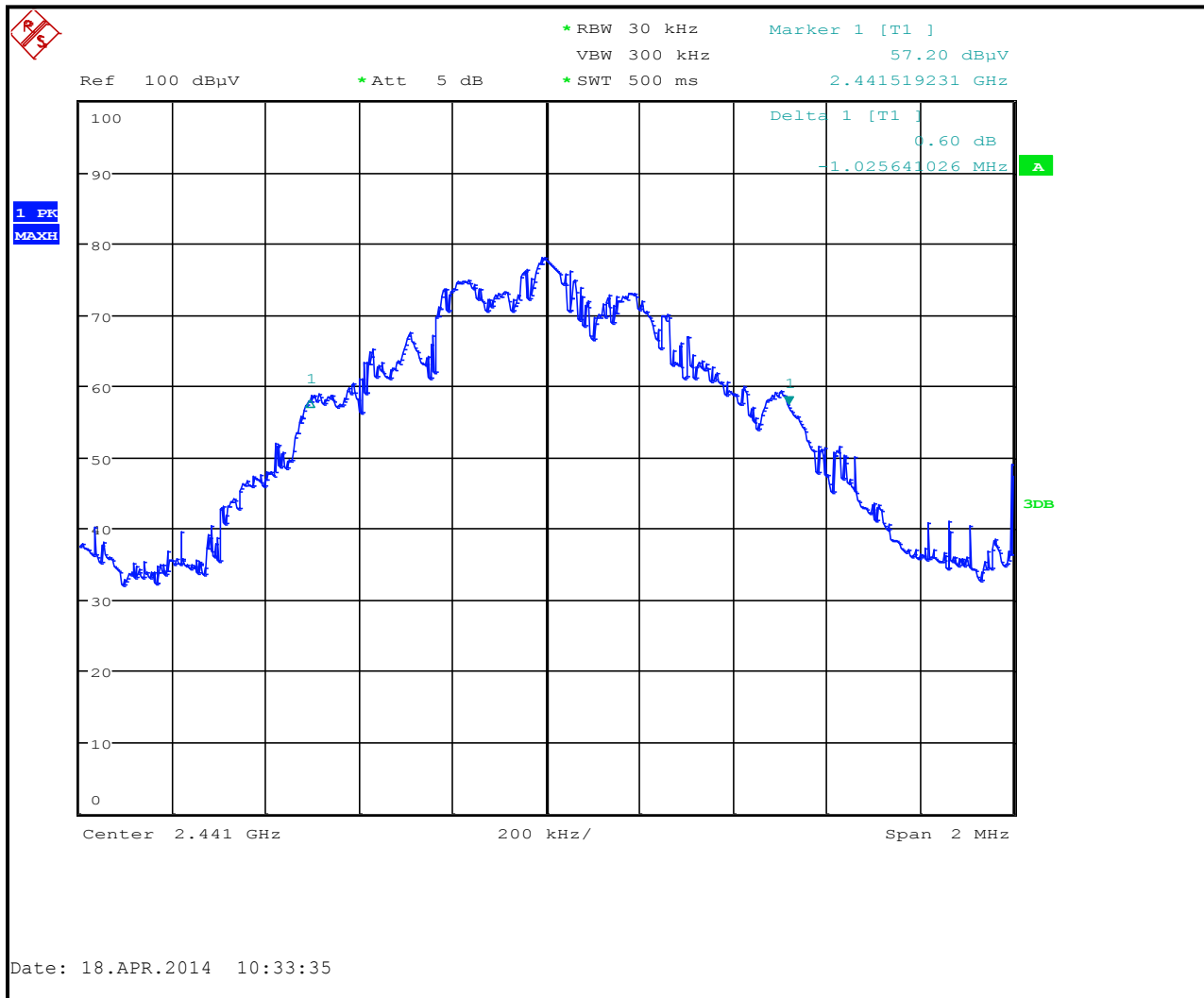
**Plot 6-3: 20 dB Bandwidth; 2482 MHz; Narrow Pulse Width**



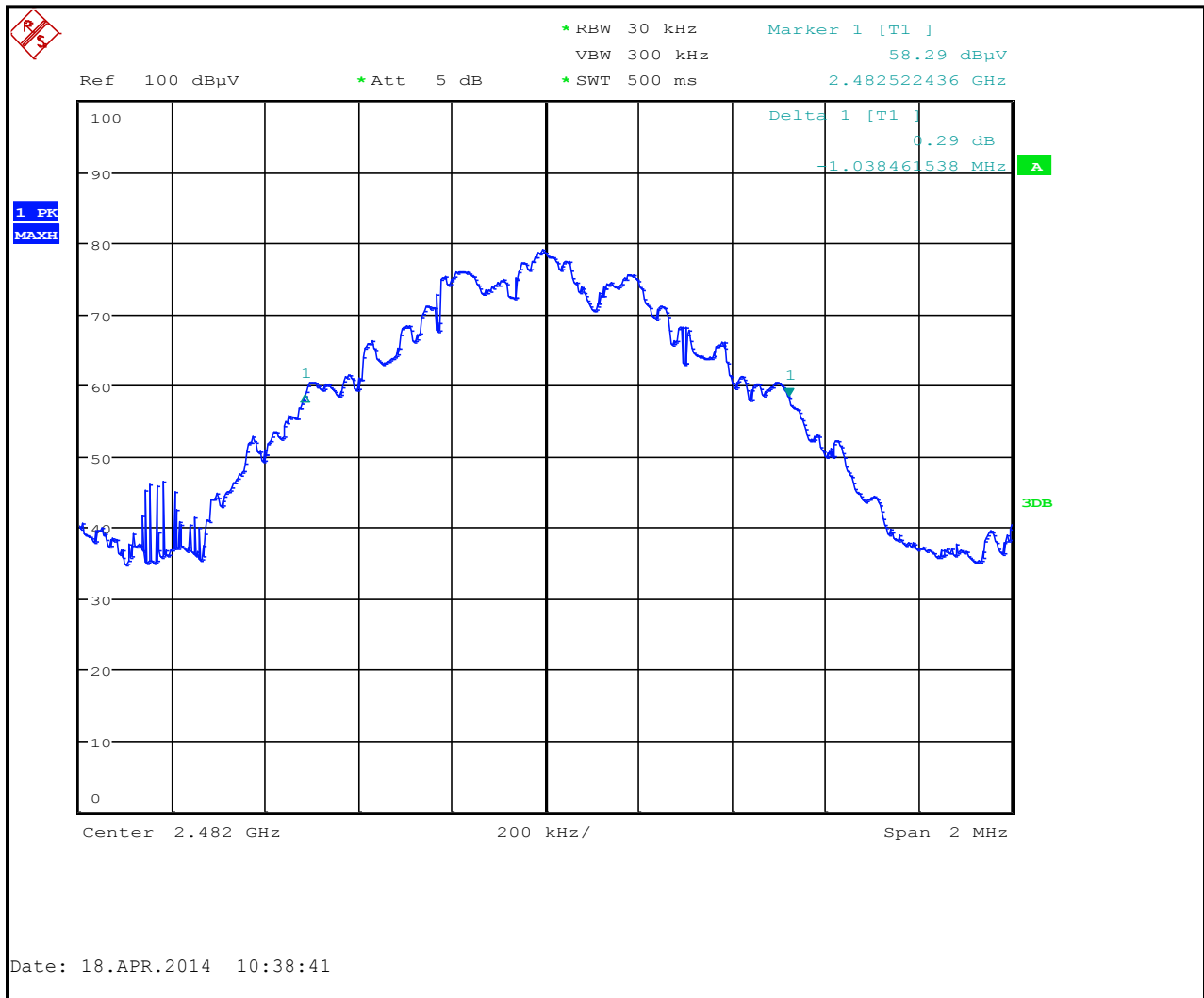
**Plot 6-4: 20 dB Bandwidth; 2401 MHz; Wide Pulse Width**



**Plot 6-5: 20 dB Bandwidth; 2441 MHz; Wide Pulse Width**



**Plot 6-6: 20 dB Bandwidth; 2482 MHz; Wide Pulse Width**



**Test Personnel:**

Daniel W. Baltzell  
 Test Engineer

Signature

April 18, 2014  
 Date of Test

Rhein Tech Laboratories, Inc.  
360 Herndon Parkway  
Suite 1400  
Herndon, VA 20170  
<http://www.rheintech.com>

Client: Turning Technologies, LLC  
Model: RCQR01  
Standards: FCC 15.249/IC RSS-210  
ID's: R4WRCQR01/5994A-RCQR01  
Report #: 2014063

## **7 Conclusion**

The data in this measurement report shows that the EUT as tested, Turning Technologies, LLC, Model: RCQR01, FCC ID: R4WRCQR01, IC: 5994A-RCQR01, complies with the applicable requirements of Parts 2 and 15 of the FCC Rules and Regulations, and IC RSS-210 and RSS-Gen for limited modular approval.