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**FCC PART 15.249 & IC RSS-210 (i8) ANNEX A2.9**  
**UNLICENSED INTENTIONAL RADIATOR**  
**COMBINED TEST REPORT**

<b>Applicant</b>	<b>BUILDING 36 TECHNOLOGIES, LLC</b>	
<b>Address</b>	<b>35 HIGHLAND CIRCLE SUITE 300 NEEDHAM MA 02494 USA</b>	
<b>FCC ID</b>	<b>2AC3T-B36T10RB</b>	
<b>IC Certification Number</b>	<b>12323A-B36T10RB</b>	
<b>Model Number</b>	<b>B36-T10 RB</b>	
<b>Product Description</b>	<b>THERMOSTAT</b>	
<b>FCC Standard Applied</b>	<b>47 CFR §15.249</b>	
<b>Industry Canada Standard Applied</b>	<b>RSS-210 Issue 8 Annex A2.9</b>	
<b>Date Sample Received</b>	<b>12/5/2014</b>	
<b>Date Tested</b>	<b>12/15/2014</b>	
<b>Tested By</b>	<b>Cory Leverett</b>	
<b>Approved By</b>	<b>Sid Sanders</b>	
<b>Report Number</b>	<b>2235AUT14TestReport.docx</b>	
<b>Test Results</b>	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**

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## GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

### Summary

The device under test does:

- fulfill the general approval requirements as identified in this test report
- not fulfill the general approval requirements as identified in this test report

### Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025: 2005 requirements.

I attest that the necessary measurements were made, under my supervision, at:

Timco Engineering Inc.  
849 NW State Road 45  
Newberry, FL 32669

#### Authorized Signatory Name:

**Cory Leverett**  
**Engineering Project Manager**  
Date: **12/15/2014**



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## GENERAL INFORMATION

### EUT Specification

The test results relate only to the items tested.			
<b>Applicable Standards</b>	FCC Part 15.249 & IC RSS-210 (i8), RSS-GEN (i4)		
<b>EUT Description</b>	THERMOSTAT		
<b>FCC ID</b>	2AC3T-B36T10RB		
<b>IC Certification Number</b>	12323A-B36T10RB		
<b>Model Number</b>	B36-T10 RB		
<b>Operating Frequency</b>	TX: 908.4 MHz & 916 MHz	RX: Same	
<b>No. of Channels</b>	2	<b>Modulations</b>	QPSK
<b>EUT Power Source</b>	<input type="checkbox"/> 110–120Vac/50– 60Hz when Charging		
	<input type="checkbox"/> DC Power		
	<input checked="" type="checkbox"/> Battery Operated Exclusively		
<b>Test Item</b>	<input type="checkbox"/> Prototype	<input type="checkbox"/> Pre-Production	<input checked="" type="checkbox"/> Production
<b>Type of Equipment</b>	<input checked="" type="checkbox"/> Fixed	<input type="checkbox"/> Mobile	<input type="checkbox"/> Portable
<b>Antenna Connector</b>	FCC Rules require that the antenna connector be unique. There is no antenna connector, it has an integrated PCB antenna		
<b>Test Facility</b>	Timco Engineering Inc. located at 849 NW State Road 45 Newberry, FL 32669 USA.		
<b>Conditions in the Test laboratory</b>	Temperature: 24–26°C Relative humidity: 50-65%		
<b>Test Exercise</b>	The sample was programmed through a PC connected to a wireless programming board. Power attenuation setting was 9, the bandwidth (baud rate) tested was 100KHz		
<b>Revision History of EUT</b>	None		

## TEST RESULTS SUMMARY

<b>FCC Rules Part No.</b>	<b>Industry Canada Rules</b>	<b>RESULTS – Pass/Fail/NA</b>
15.249 Fundamental Emission	RSS-210 (i8) ANNEX A2.9, RSS-GEN (i4)	Pass
15.249 & 15.209 Harmonics & Spurious	RSS-210 (i8) ANNEX A2.9, RSS-GEN (i4)	Pass
15.205 & 2.202 Occupied Bandwidth	RSS-GEN (i4), 4.6	Pass
15.249 & 15.205 Bandedge Compliance	RSS-GEN (i4), 4.6	Pass
15.207 Power Line Emissions	RSS-GEN (i4), 7.2.4	Not Applicable

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## TEST PROCEDURES

**Radiation Interference:** ANSI C63.4-2003 using a spectrum analyzer, a preselector, a quasi-peak adapter, and an appropriate antenna. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100 kHz with an appropriate sweep speed and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worst case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental. Emissions were scanned from 30MHz to the tenth harmonic of the fundamental frequency at three places in the band. All emissions greater than 20 dB from the limit are not reported.

**Formula Of Conversion Factors:** The field strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the preselector was accounted for in the spectrum analyzer meter reading.

Example:

Freq (MHz)	Meter Reading	+ ACF	+ CL	= FS
33	20 dBuV	+ 10.36 dB	+ 0.5	= 30.86 dBuV/m @ 3m

**Power Line Conducted Interference:** The procedure used was ANSI C63.4-2003 using a 50uH LISN. Both lines were observed. The bandwidth of the spectrum analyzer was 10kHz with an appropriate sweep speed. The spectrum was scanned from 0.15 to 30 MHz.

**Occupied Bandwidth:** A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was printed. The vertical scale is set to -10 dBm per division.

**ANSI C63.4-2003 10.1 Measurement Procedures:** The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. Emissions attenuated more than 20 dB below the permissible value are not reported.

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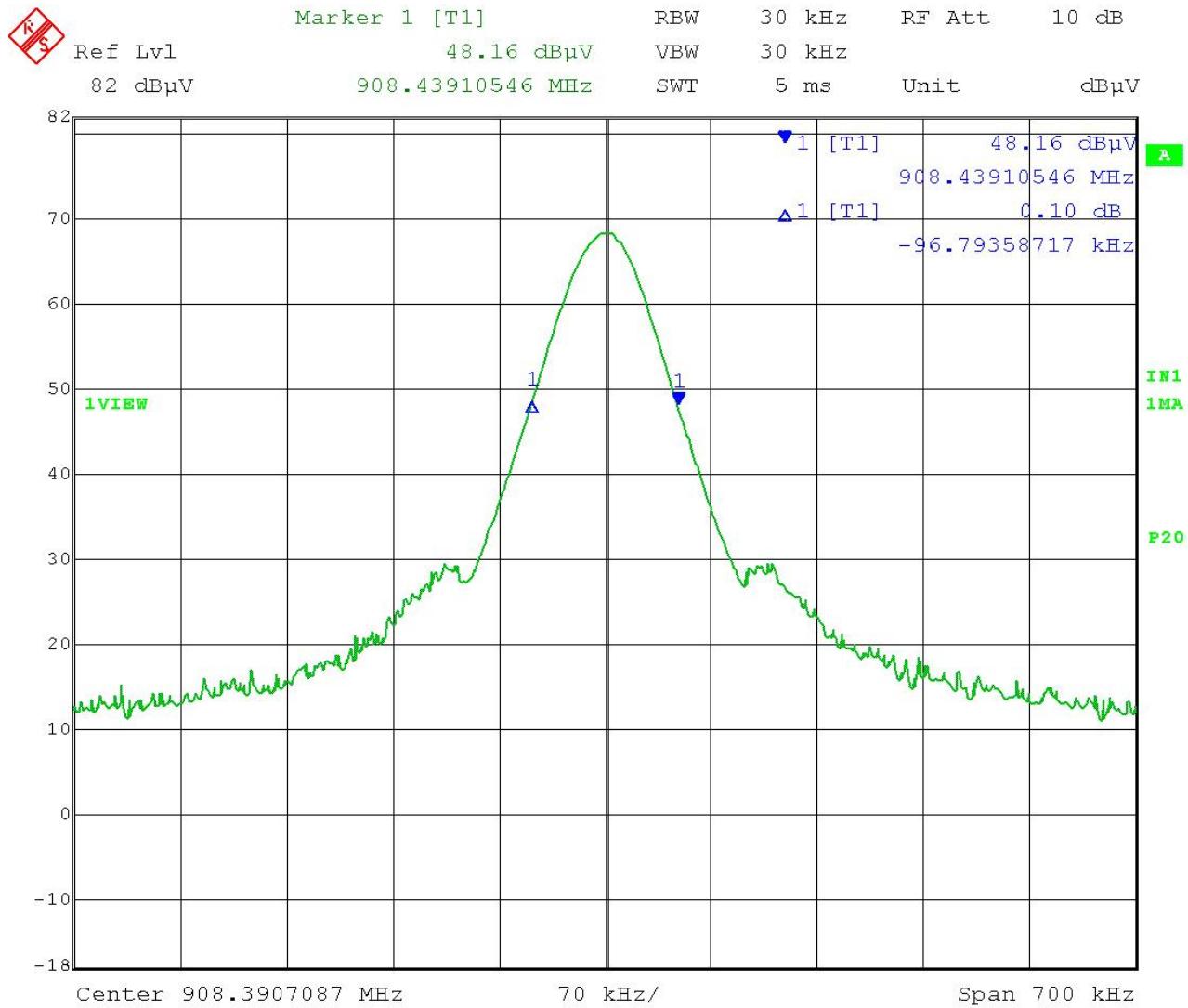
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## 20 dB BANDWIDTH

**Rule Part:** FCC part 15.205, 2.202 , RSS GEN (i4) 4.6

**Requirements:** must remain inside band

**Test Data: 908.4 MHz Occupied Bandwidth = 96.79 KHz**



Date: 15.DEC.2014 12:59:33

**Results meet requirements**

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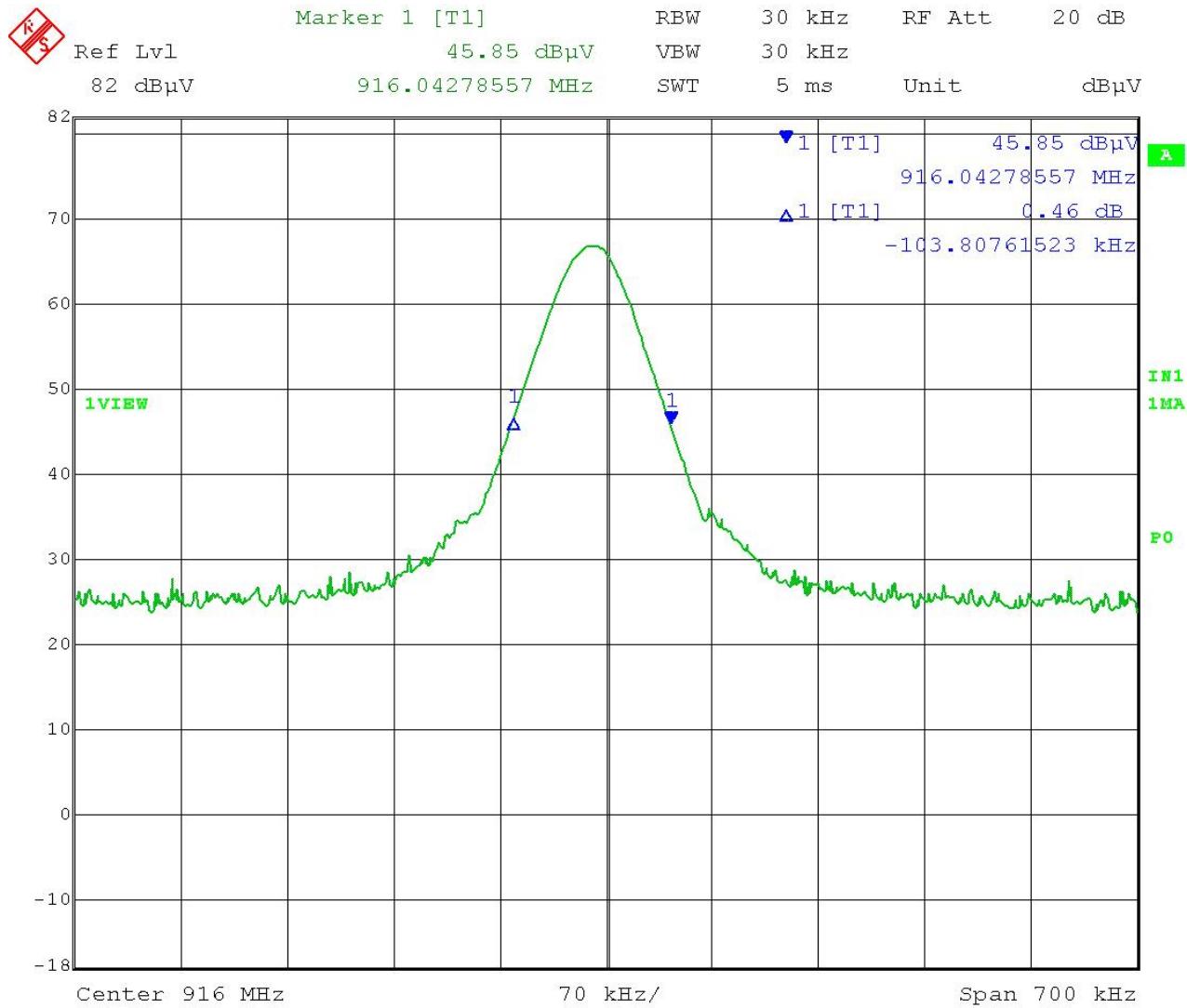
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## 20 dB BANDWIDTH

**Test Data: 916 MHz Occupied Bandwidth = 103.8 KHz**



Date: 15.DEC.2014 13:11:33

**Results meet requirements**

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## RADIATION INTERFERENCE

**Rules Part No.:** FCC 15.249, 15.209 & IC RSS-210 (i8) ANNEX A2.9, RSS-GEN (i4)

### Requirements:

Frequency	Limits
Part 15.209 & RSS-GEN (i4)	
9 to 490 kHz	2400/F (kHz) $\mu$ V/m @ 300 meters
490 to 1705 kHz	24000/F (kHz) $\mu$ V/m @ 30 meters
1705 kHz to 30 MHz	29.54 dB $\mu$ V/m @ 30 meters
30 – 88	40.0 dB $\mu$ V/m @ 3 meters
80 – 216	43.5 dB $\mu$ V/m @ 3 meters
216 – 960	46.0 dB $\mu$ V/m @ 3 meters
Above 960	54.0 dB $\mu$ V/m @ 3 meters
Part 15.249 & RSS-210 (i8) ANNEX A.2.9	
Fundamental 902 – 928 MHz	94.0 dB $\mu$ V/m @ 3 meters
Fundamental 2.4 – 2.4835 GHz	94.0 dB $\mu$ V/m @ 3 meters
Harmonics	54.0 dB $\mu$ V/m @ 3 meters

### Remarks:

The EUT was tested in three orthogonal planes as required. The EUT parallel (flat) on the turntable table was the worst case position and the following table and plots represent the emissions for this position. A test setup photo is provided in this report to document the final worst case position.

Unless otherwise noted in the results, a Peak Detector is Used for measurement's. No emissions were found past the second harmonic of each frequency tested.

## RADIATION INTERFERENCE

Test Data: Field Strength table.

Tuned Freq MHz	Emission Freq MHz	Meter Reading dBuV	Detector	RBW KHz	Ant. Polarity	Coax Loss dB	Cor Factor dB/m	FS dBuV/m	Margin dB
908.4	64.74	4.3	Peak	100	H	0.41	6.16	10.89	29.11
908.4	123.34	6.5	Peak	100	V	0.65	11.37	17.54	25.96
908.4	135.27	4.8	Peak	100	V	0.68	14.04	18.51	24.99
908.4	171.72	5.4	Peak	100	V	0.78	15.12	20.32	23.18
908.4	337.87	4.1	Peak	100	H	1.16	13.98	18.26	75.74
908.4	721.04	5.9	Peak	100	V	1.96	21.3	27.14	66.86
908.4	906.21	8.1	Peak	100	H	2.39	23.3	31.76	62.24
908.4	908.4	59.4	Q Peak	120	V	2.39	23.3	83.12	10.88
908.4	908.4	68.1	Q Peak	120	H	2.39	23.3	91.83	2.17
908.4	910.38	8.2	Peak	100	H	2.4	23.3	31.86	62.14
908.4	2,725.0	7.8	Average	1000	H	3.41	32.51	40.72	13.28
916	31.7	9.9	Peak	100	V	0.18	12.64	22.72	17.28
916	66.79	12.4	Peak	100	V	0.42	6.03	18.88	21.12
916	66.79	12.4	Peak	100	V	0.42	6.03	18.88	21.12
916	122.32	6.3	Peak	100	V	0.64	11.16	17.13	26.37
916	183.64	5.6	Peak	100	V	0.81	13.51	18.87	24.63
916	706.61	5.5	Peak	100	H	1.98	21.17	26.69	67.31
916	908.01	7.3	Peak	100	H	2.39	23.3	30.99	63.01
916	912.06	6.8	Peak	100	H	2.4	23.32	30.49	63.51
916	916	55.8	Q Peak	1000	V	2.4	23.36	79.52	14.48
916	916	66.6	Q Peak	1000	H	2.4	23.36	90.35	3.65
916	917.95	7.9	Peak	100	H	2.41	23.38	31.68	62.32
916	920	8.1	Peak	100	H	2.41	23.4	31.88	62.12
916	950.3	5.5	Peak	100	V	2.46	23.7	29.69	16.31
916	2,747.93	9.5	Average	1000	H	3.42	32.52	42.44	11.56

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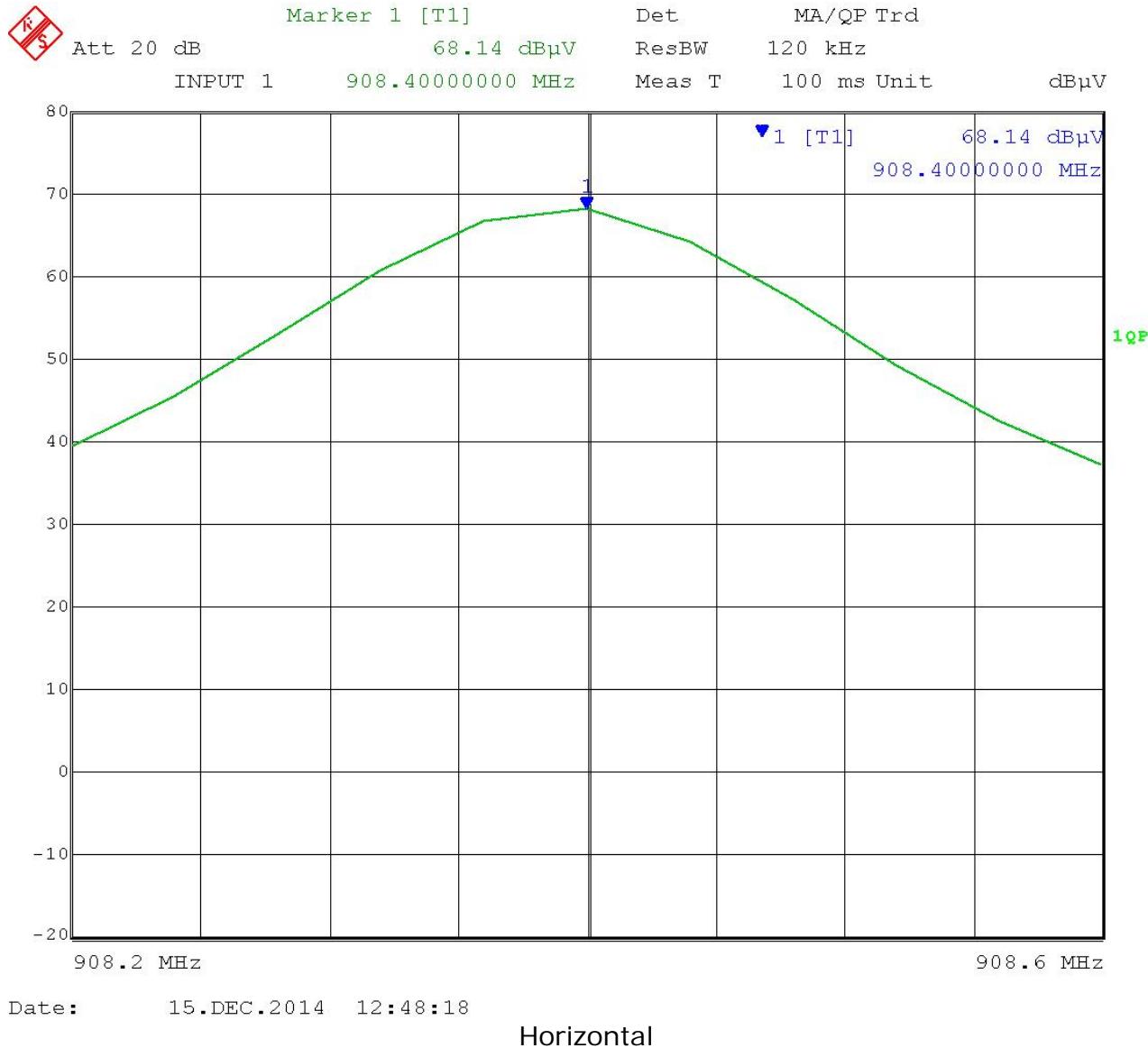
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## RADIATION INTERFERENCE

### Test Data: Plots

#### CH 1 908.4 MHz Fundamental Quasi Peak Scan



APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

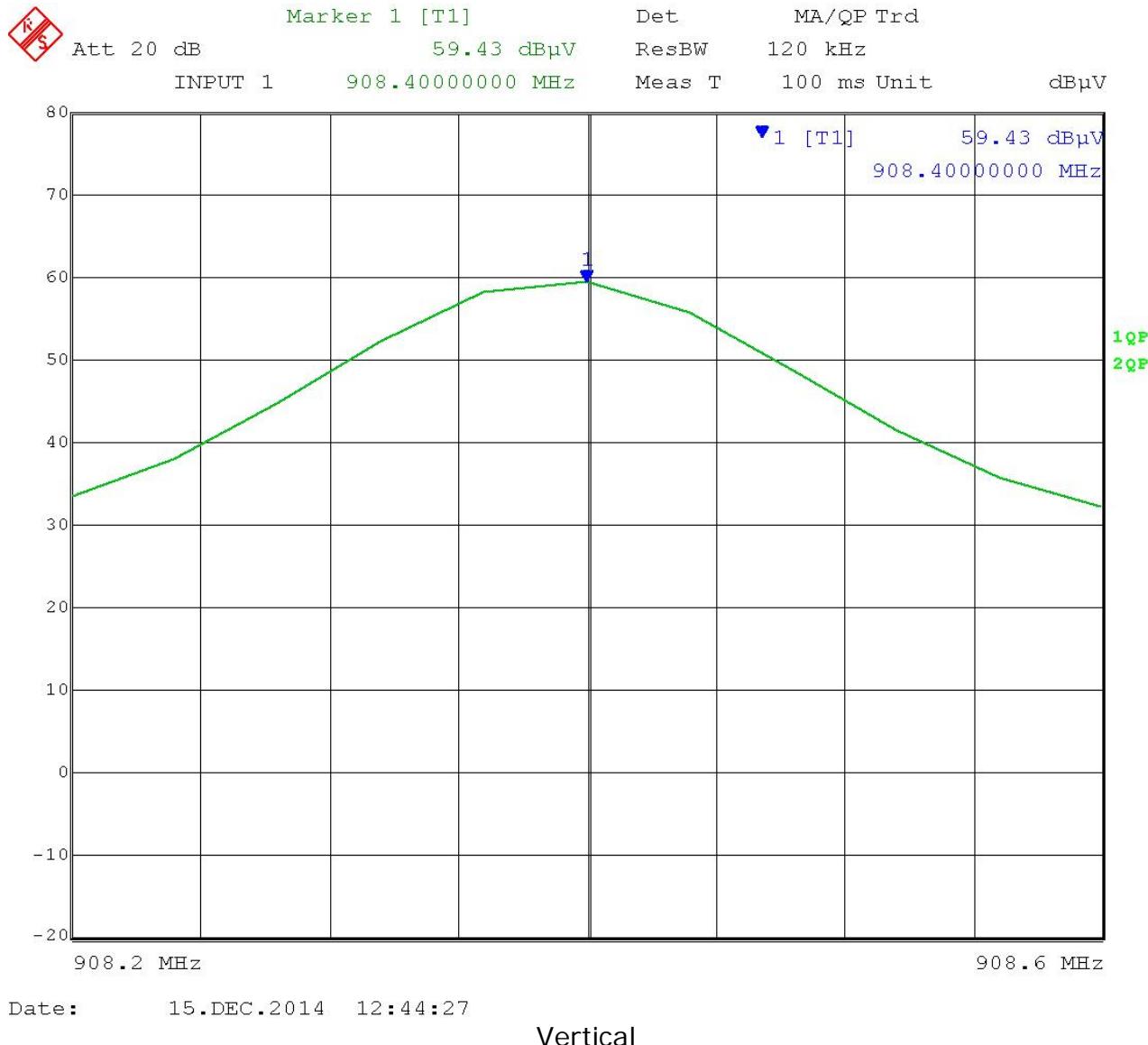
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## RADIATION INTERFERENCE

### Test Data: Plots

#### CH 1 908.4 MHz Quasi Peak Scan



APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

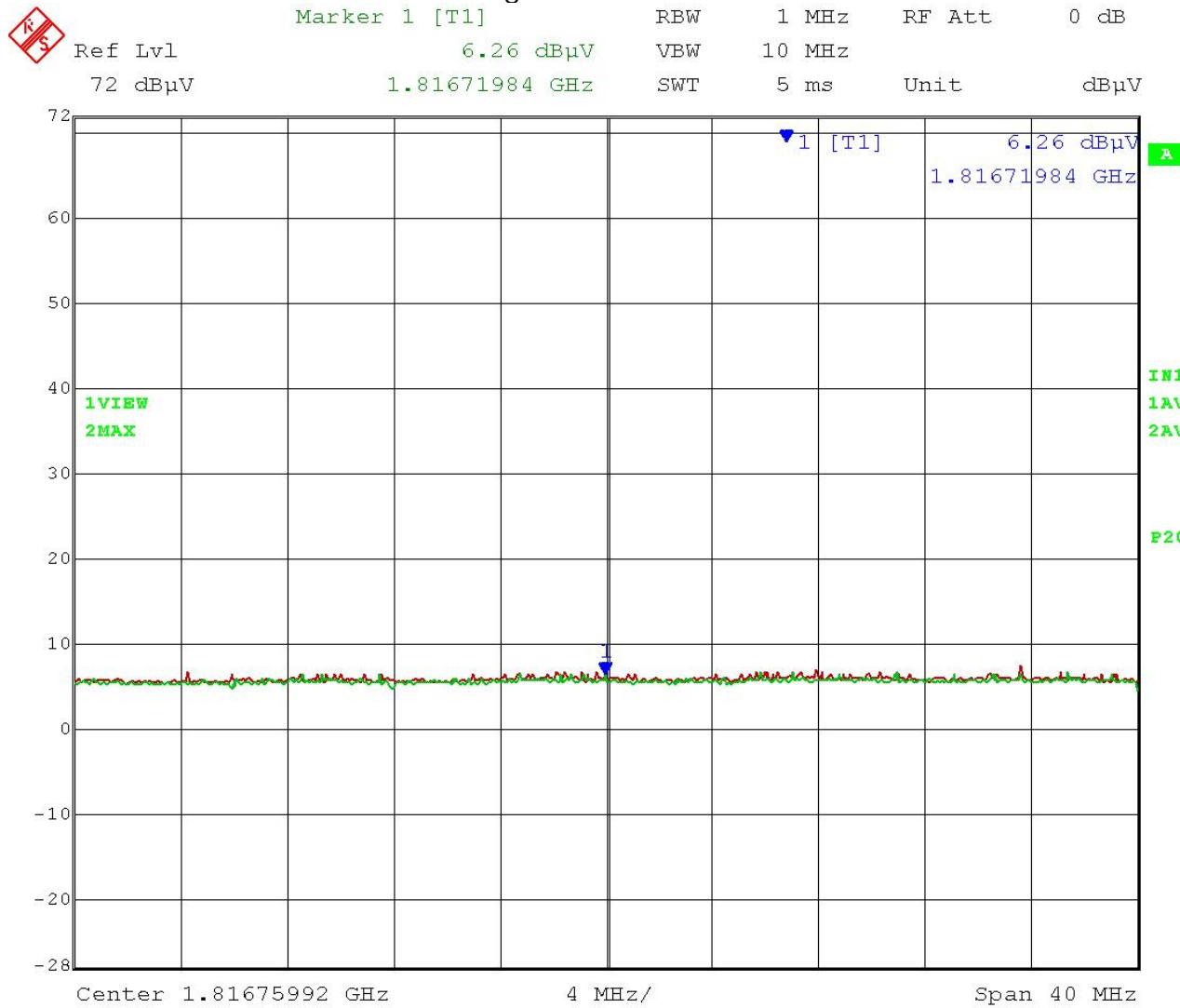
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## RADIATION INTERFERENCE

### Test Data: Plots

#### CH 1 908.4 MHz 1<sup>st</sup> Harmonic Average Scan



Date: 15.DEC.2014 15:18:25

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

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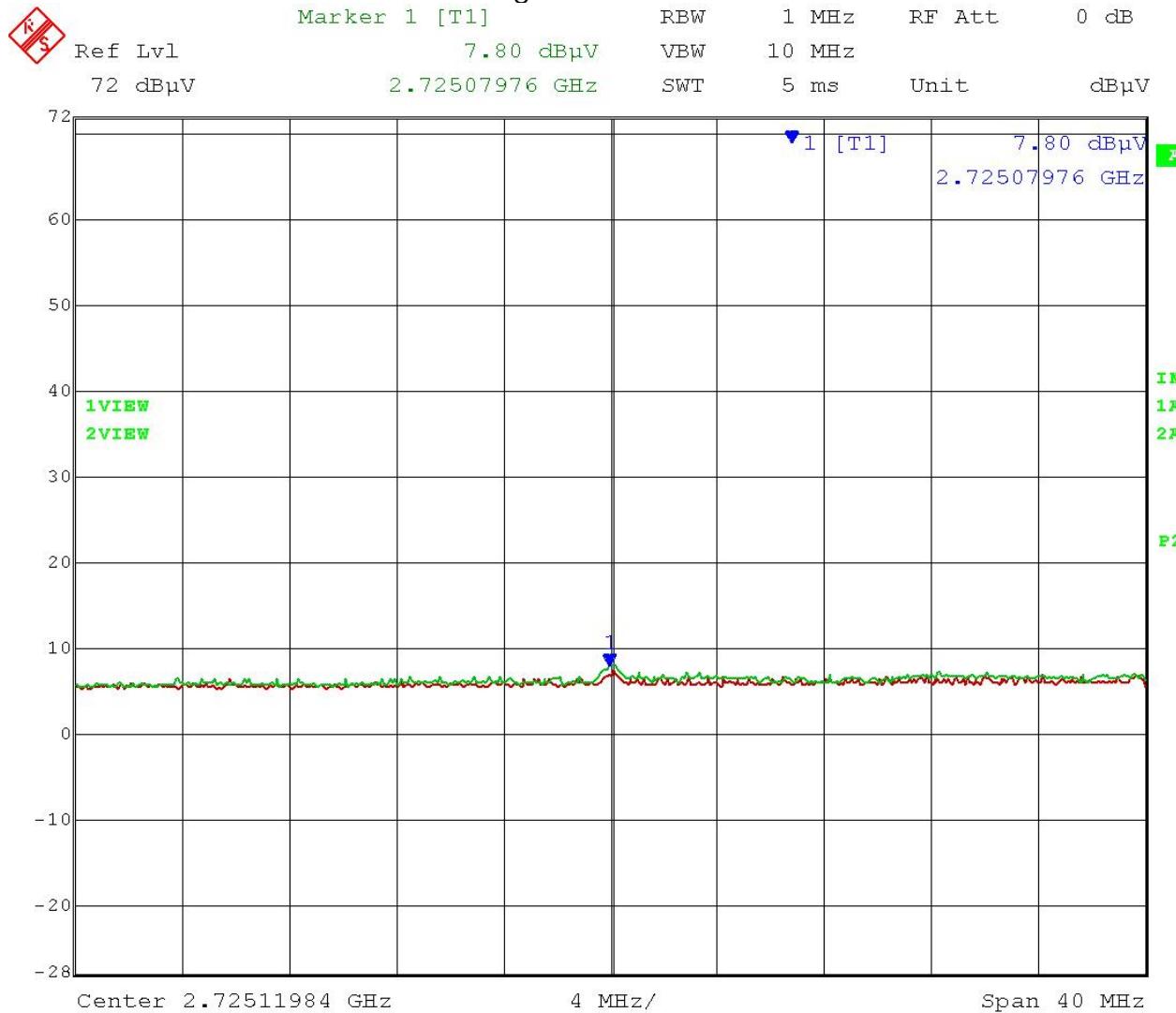
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## RADIATION INTERFERENCE

### Test Data: Plots

CH 1 908.4 MHz 2<sup>nd</sup> Harmonic Average Scan

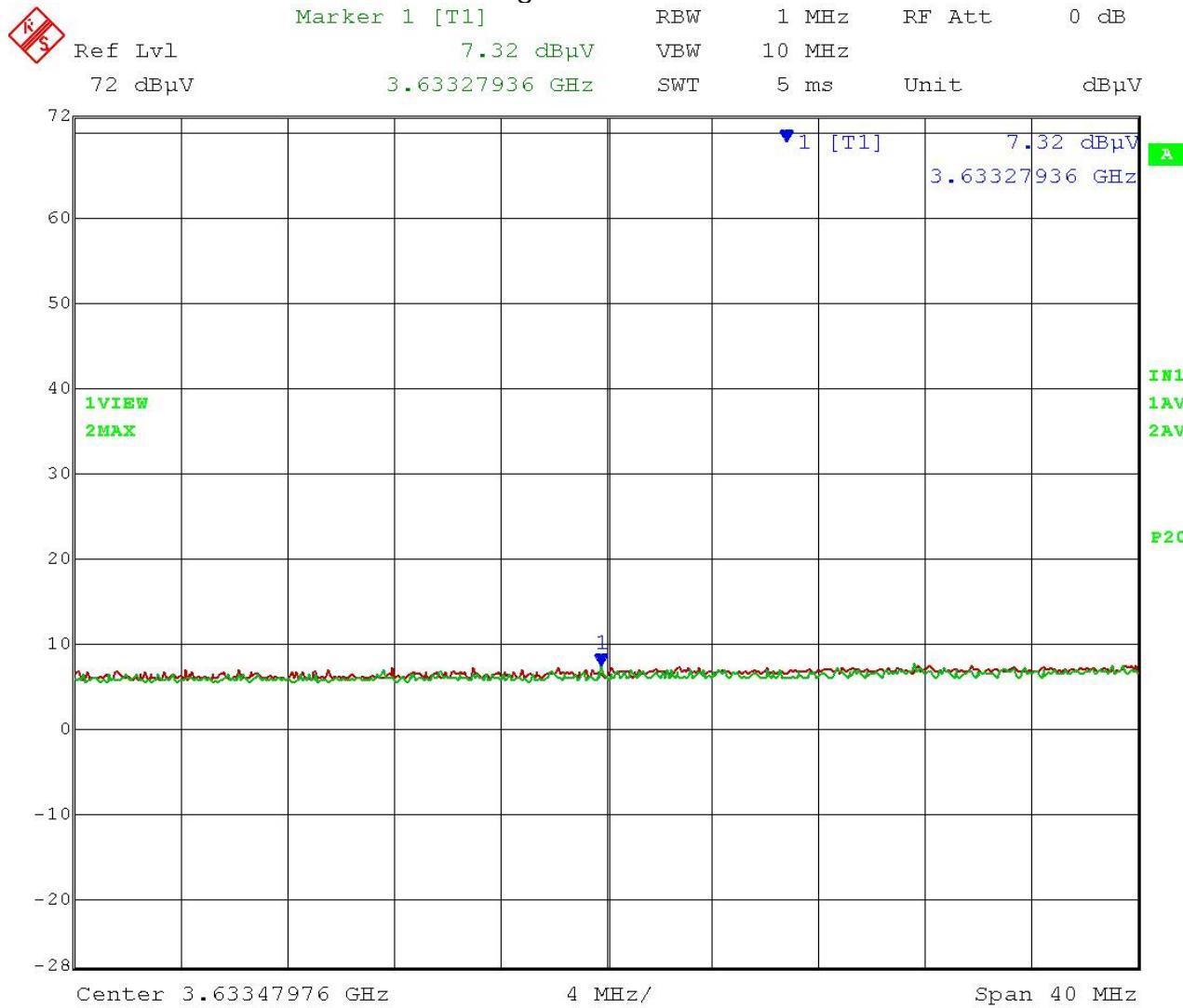


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## RADIATION INTERFERENCE

### Test Data: Plots

CH 1 908.4 MHz 3rd Harmonic Average Scan



Date: 15.DEC.2014 15:26:23

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

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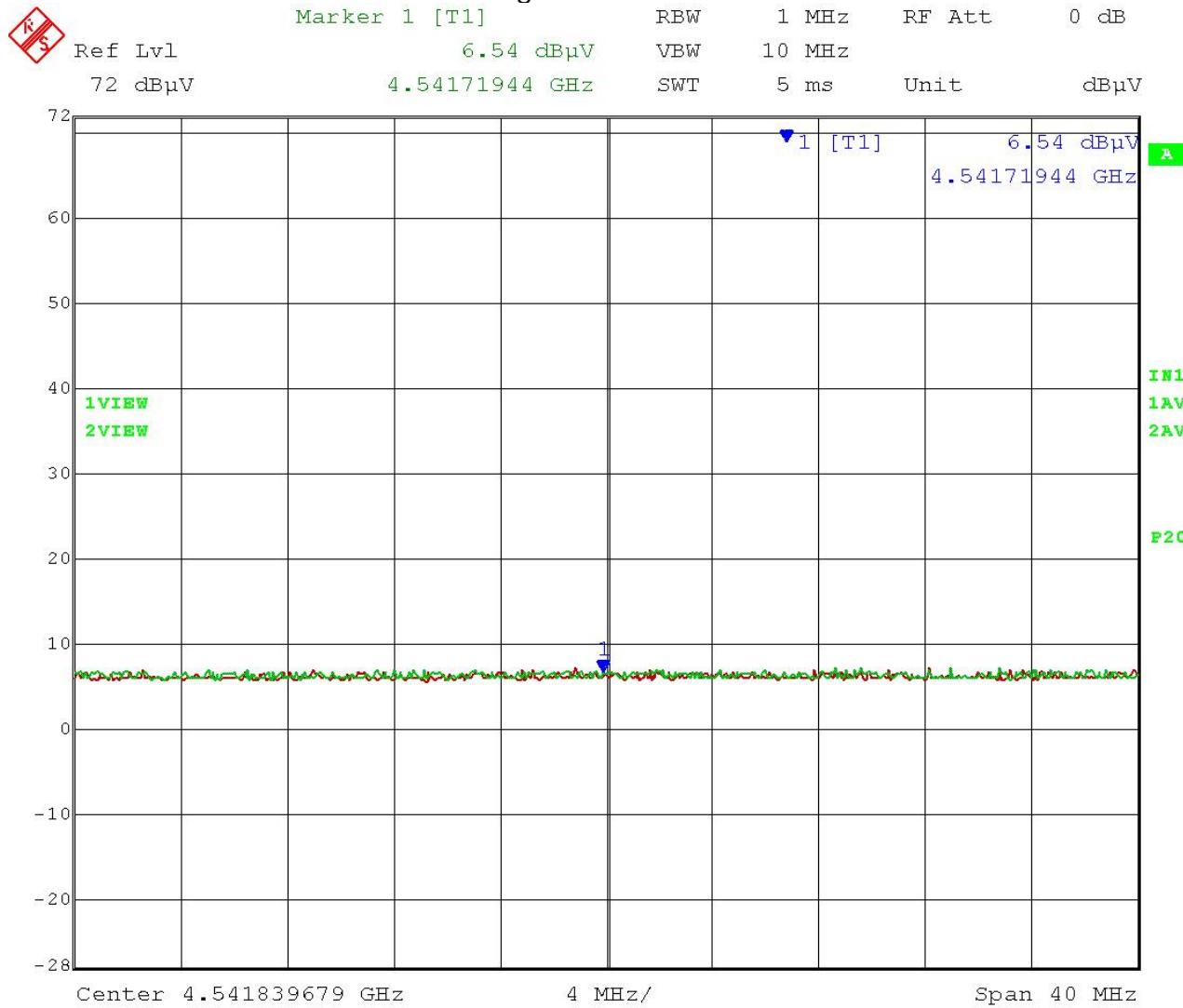
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## RADIATION INTERFERENCE

### Test Data: Plots

#### CH 1 908.4 MHz 4th Harmonic Average Scan



Date: 15.DEC.2014 15:29:01  
 (Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

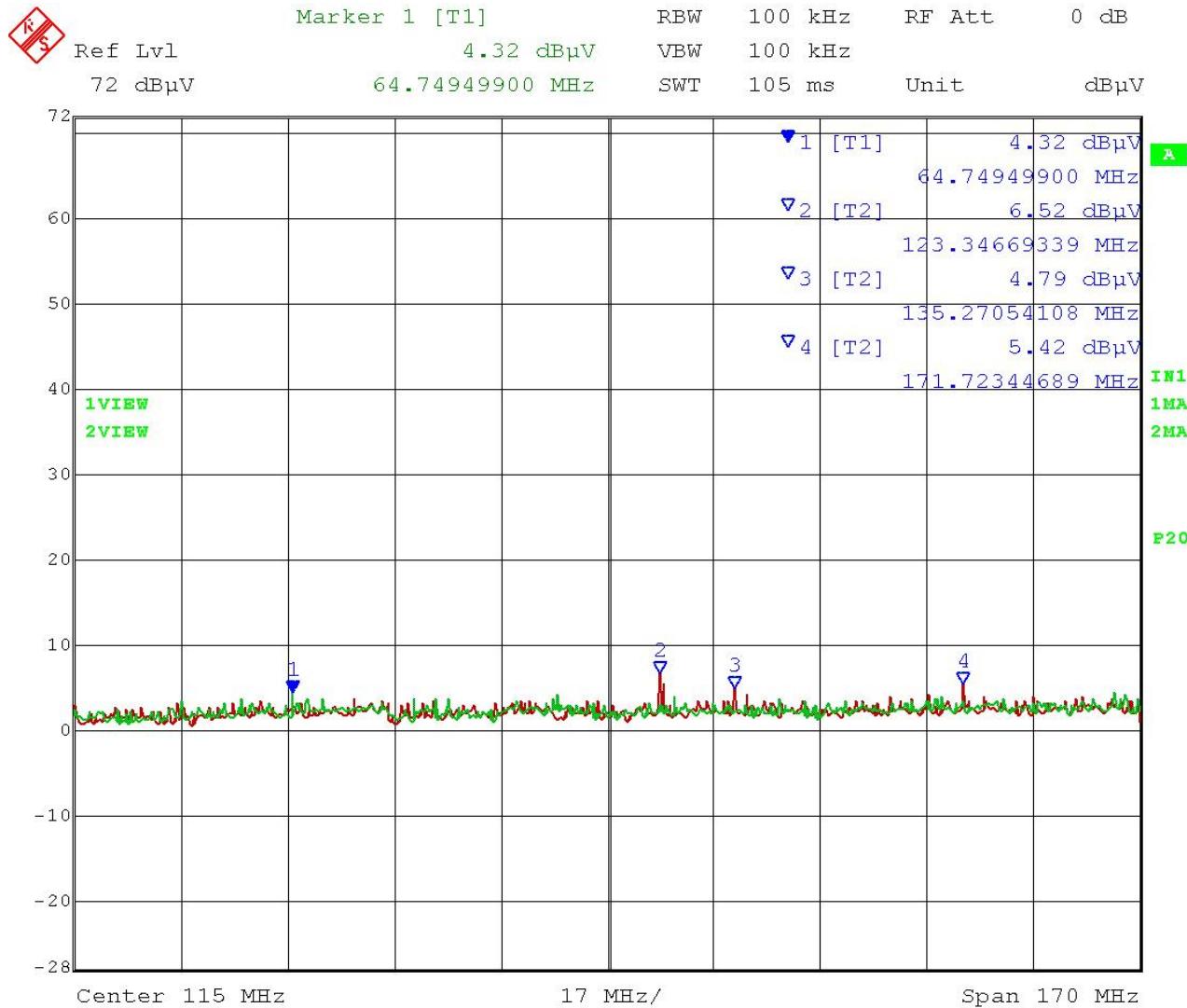
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## RADIATION INTERFERENCE

### Test Data: Plots

CH 1 908.4 MHz 30-200 MHz Peak Scan



Date: 15.DEC.2014 14:02:01

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

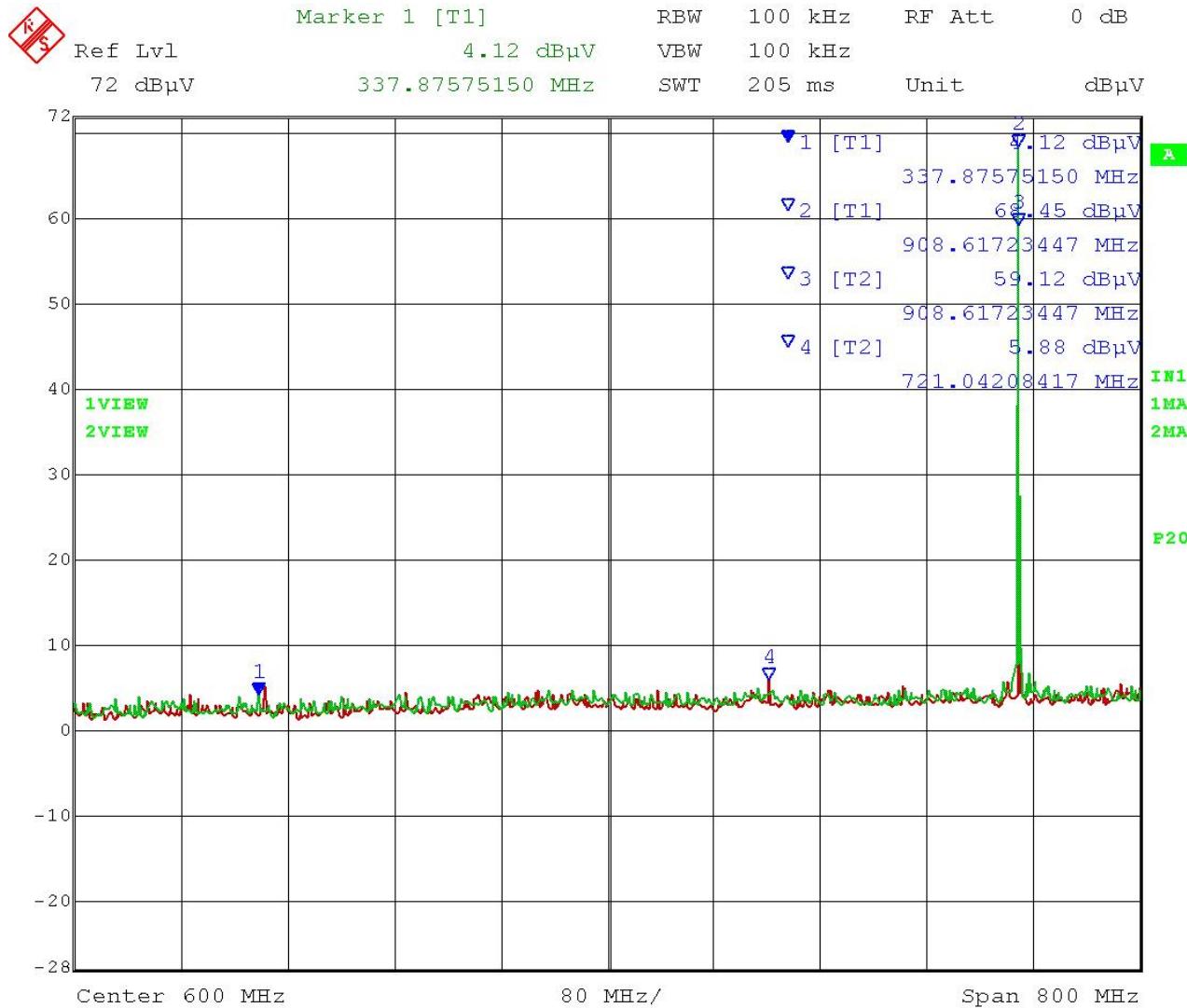
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## RADIATION INTERFERENCE

### Test Data: Plots

CH 1 908.4 MHz 200-1000 MHz Peak Scan



Date: 15.DEC.2014 13:30:45

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

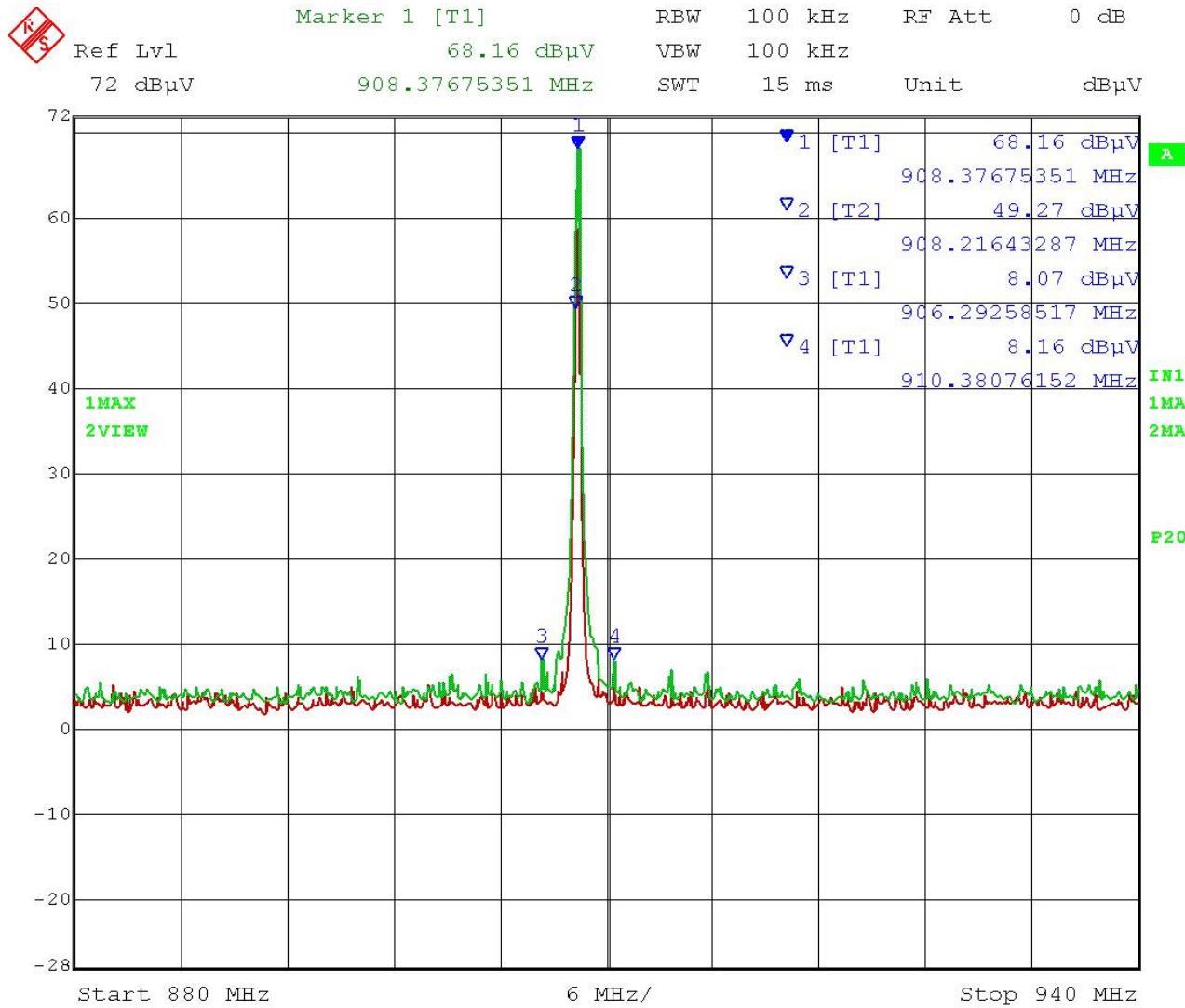
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## RADIATION INTERFERENCE

### Test Data: Plots

CH 1 908.4 MHz 880-940 MHz Peak Scan



Date: 15.DEC.2014 13:37:58  
 (Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

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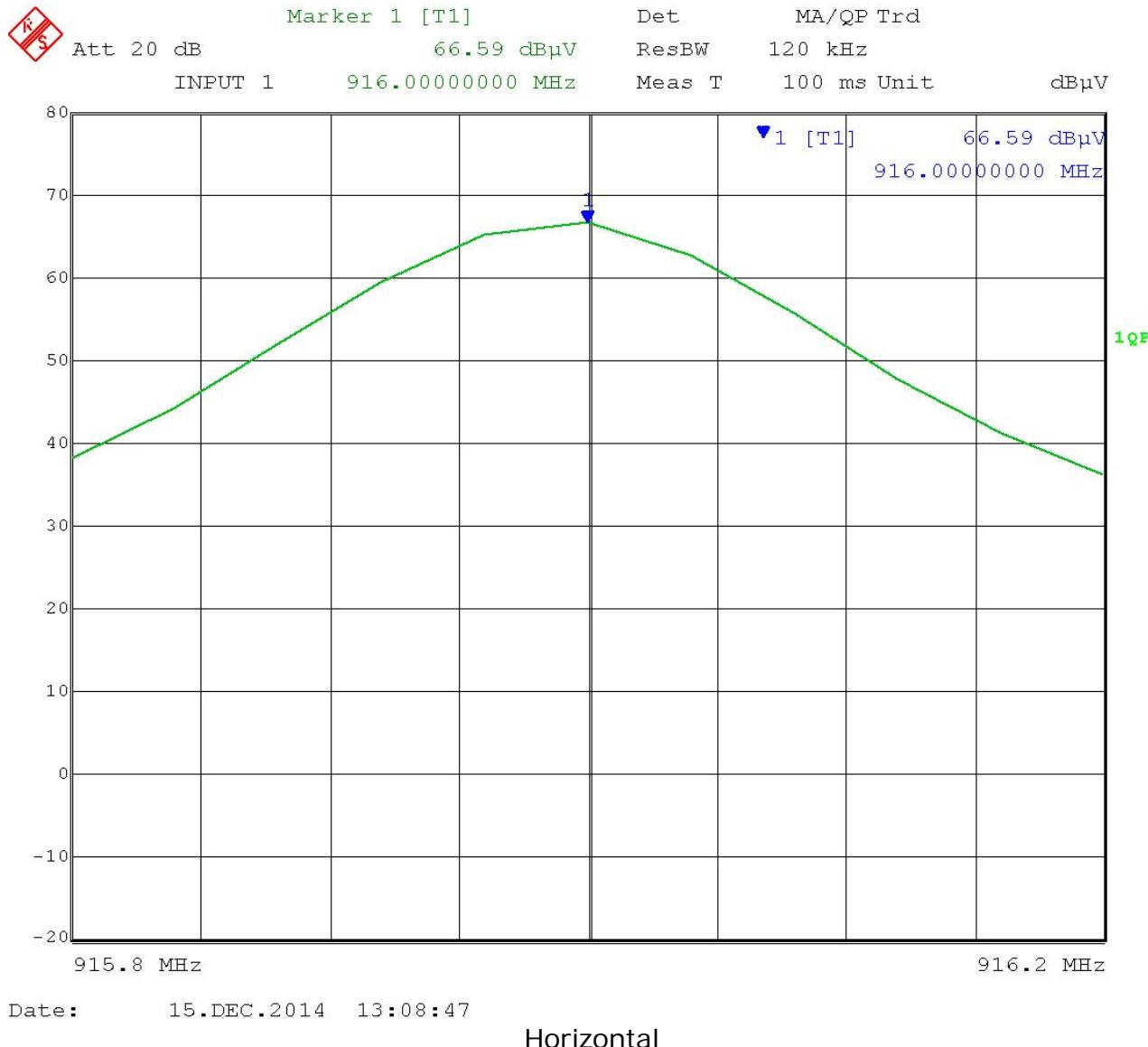
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## RADIATION INTERFERENCE

### Test Data: Plots

#### CH 2 916 MHz Fundamental Quasi Peak Scan



APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

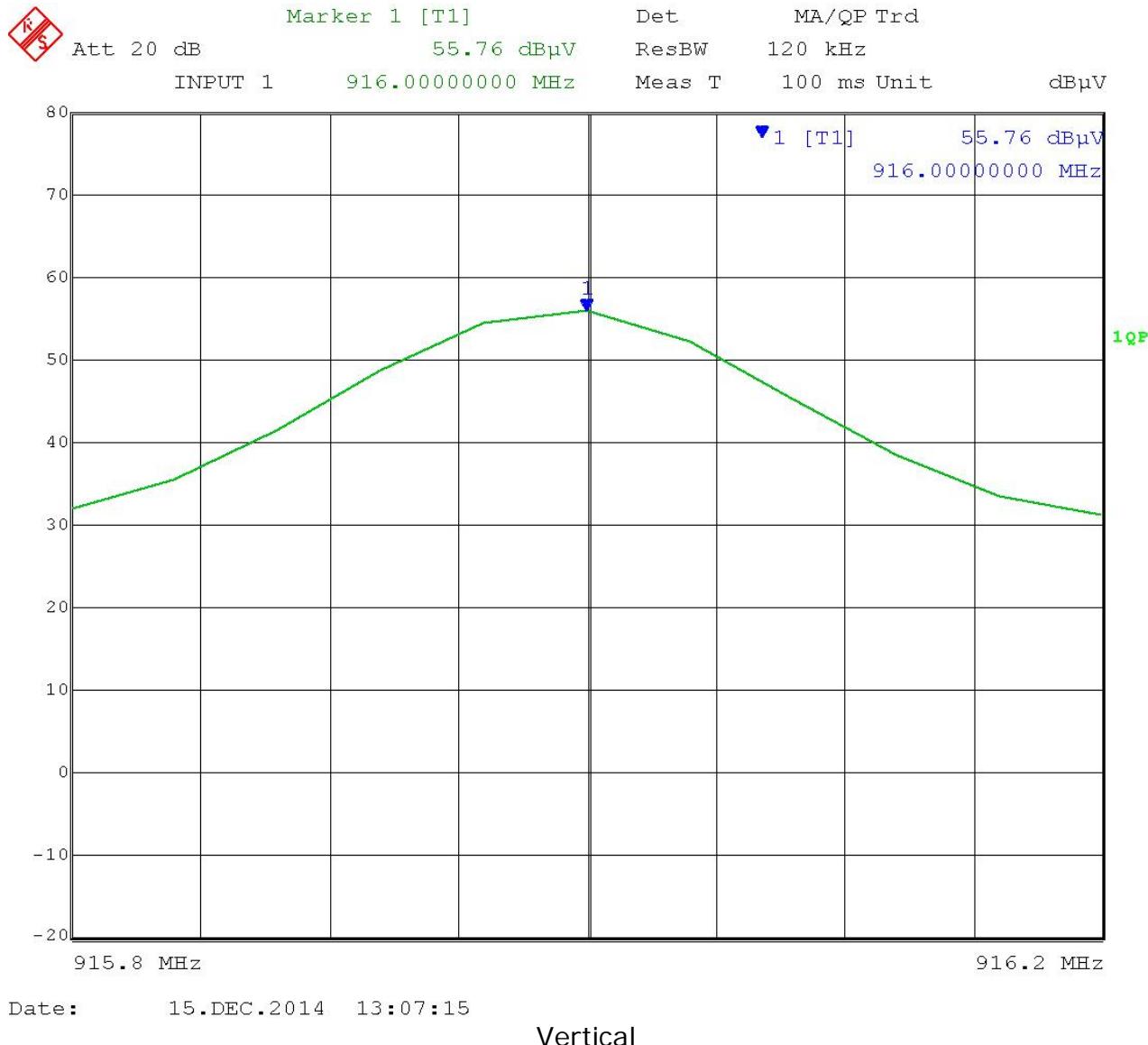
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## RADIATION INTERFERENCE

### Test Data: Plots

#### CH 2 916 MHz Quasi Peak Scan



APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

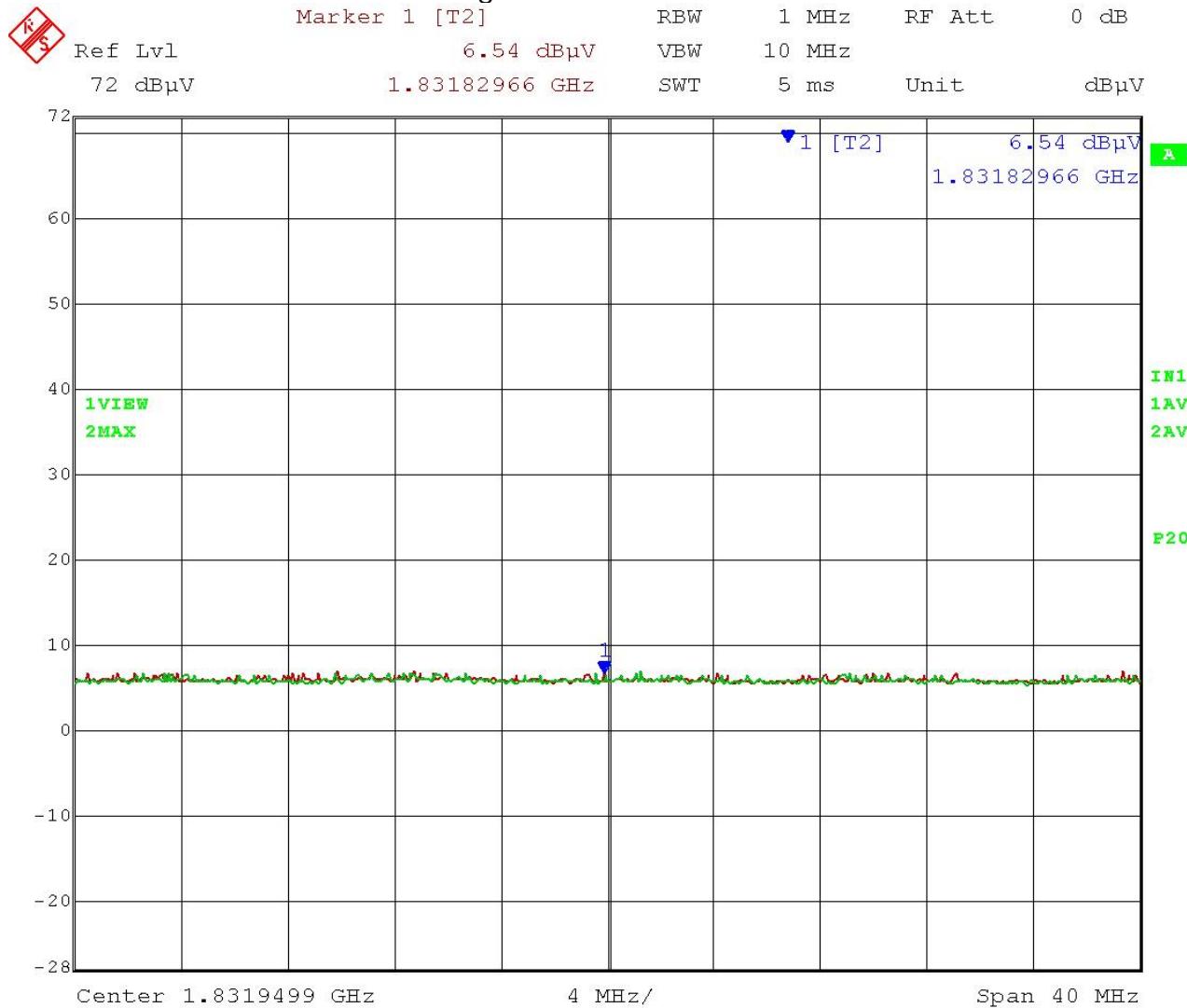
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## RADIATION INTERFERENCE

### Test Data: Plots

#### CH 2 916 MHz 1<sup>st</sup> Harmonic Average

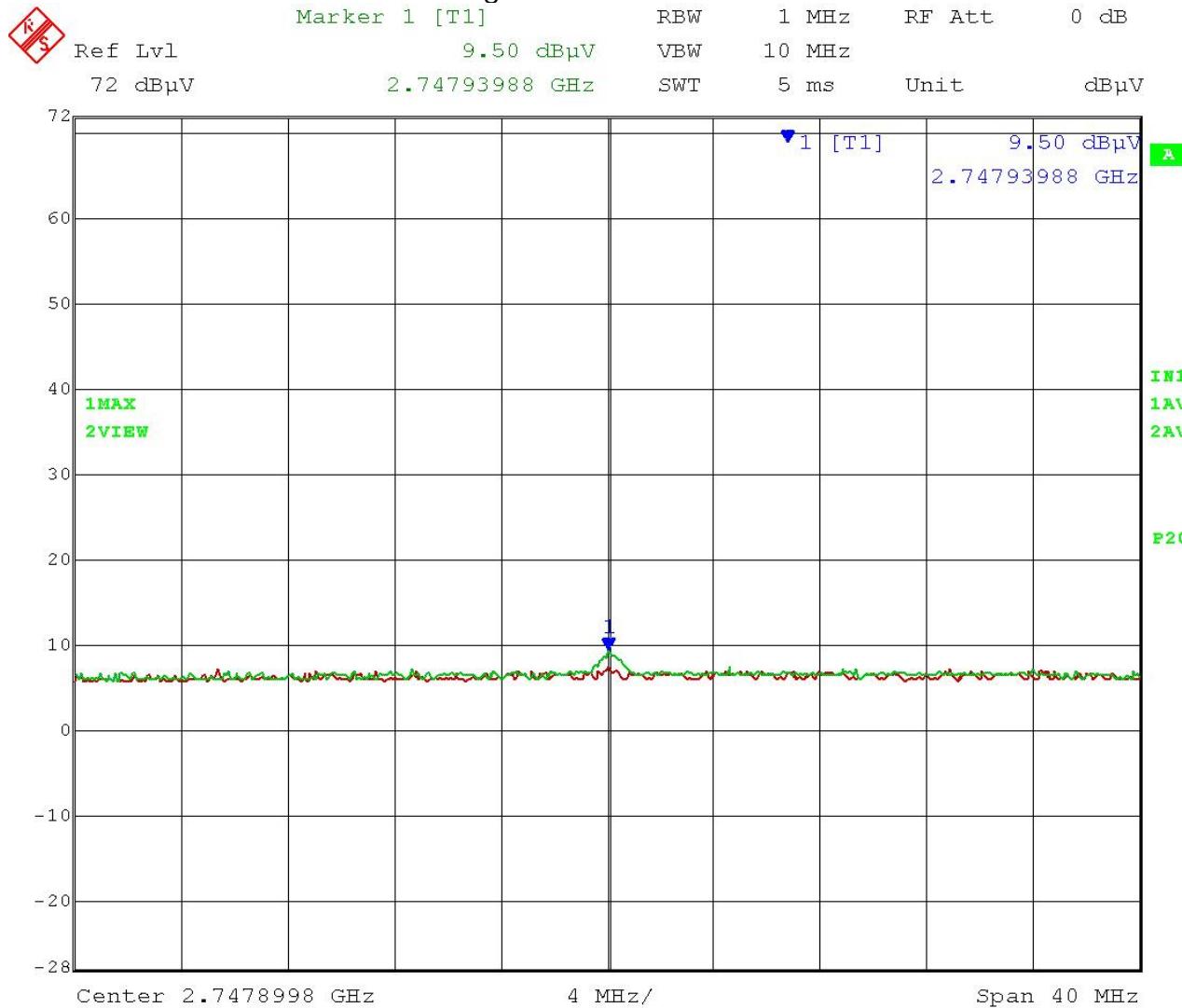


Date: 15.DEC.2014 15:05:35  
 (Green Trace 1=Horizontal, Red Trace 2 = Vertical)

## RADIATION INTERFERENCE

### Test Data: Plots

CH 2 916 MHz 2<sup>nd</sup> Harmonic Average Scan



Date: 15.DEC.2014 15:09:17

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

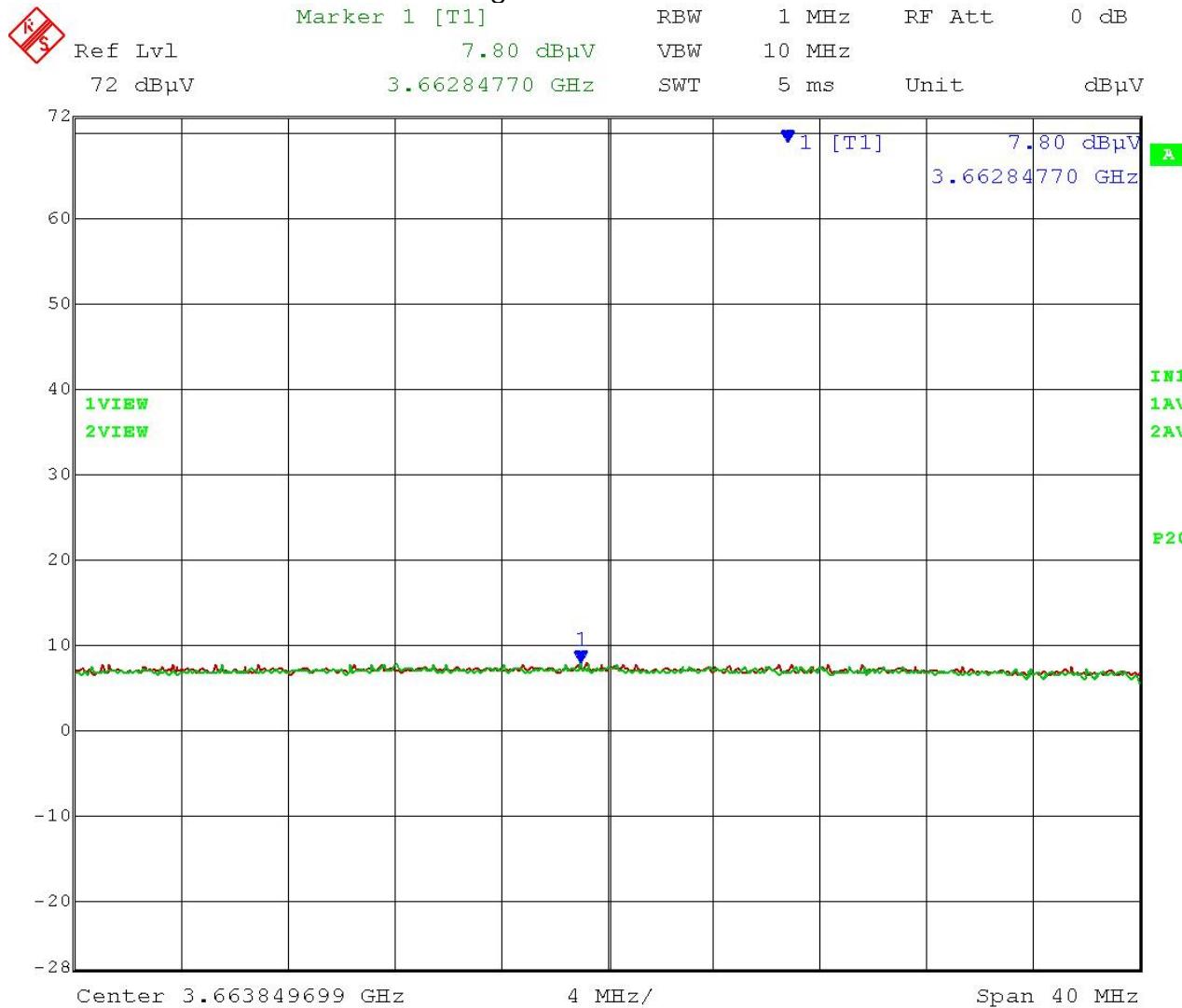
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## RADIATION INTERFERENCE

### Test Data: Plots

CH 2 916 MHz 3rd Harmonic Average Scan



Date: 15.DEC.2014 15:11:01  
 (Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

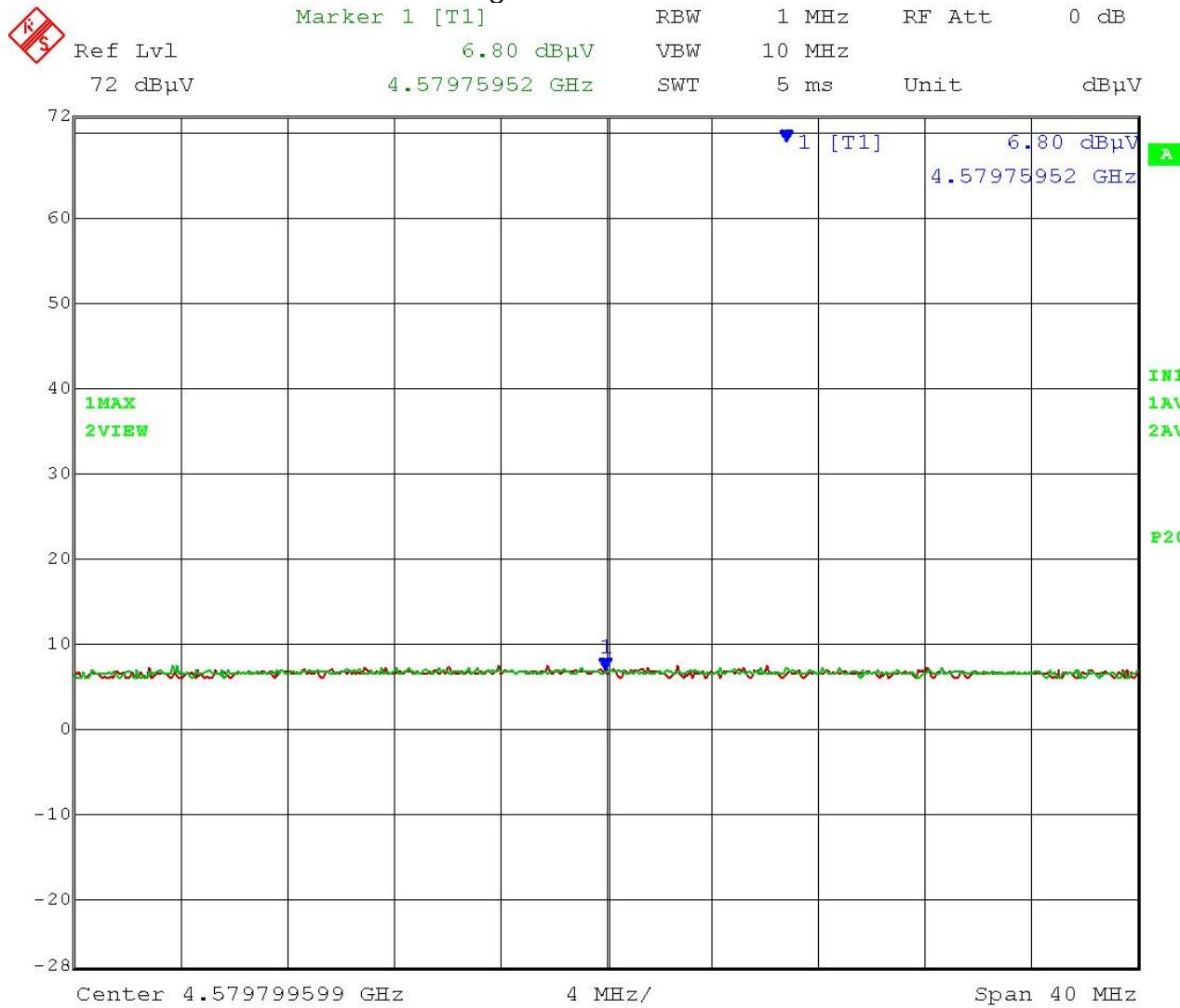
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## RADIATION INTERFERENCE

### Test Data: Plots

CH 2 916 MHz 4th Harmonic Average Scan



Date: 15.DEC.2014 15:14:01  
 (Green Trace 1=Horizontal, Red Trace 2 = Vertical)

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## RADIATION INTERFERENCE

### Test Data: Plots

#### CH 2 916 MHz 30-200 MHz Peak Scan



Date: 15.DEC.2014 13:56:04

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

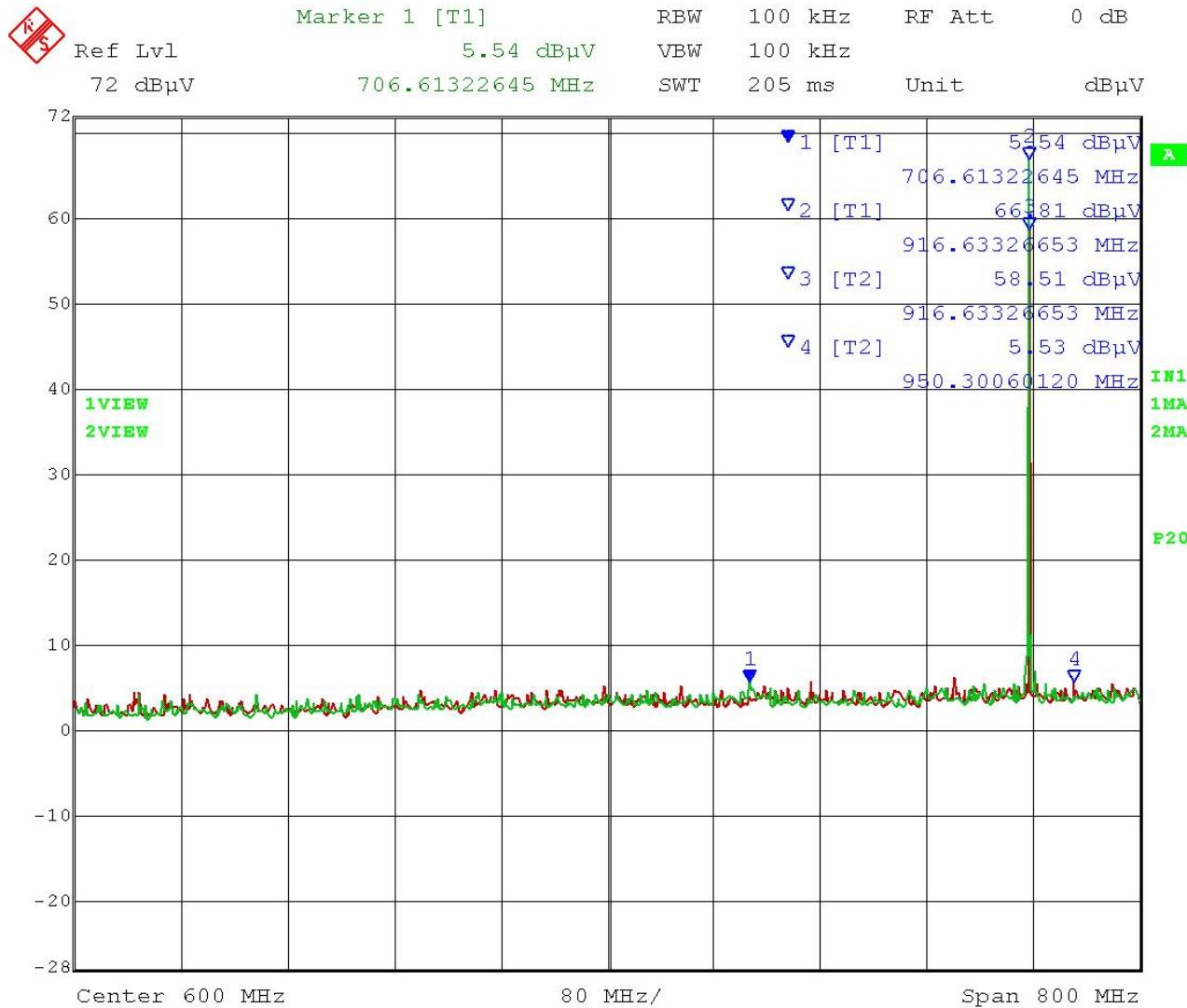
FCC ID: 2AC3T-B36T10RB

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## RADIATION INTERFERENCE

### Test Data: Plots

CH 2 916 MHz 200-1000 MHz



Date: 15.DEC.2014 13:26:55  
 (Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

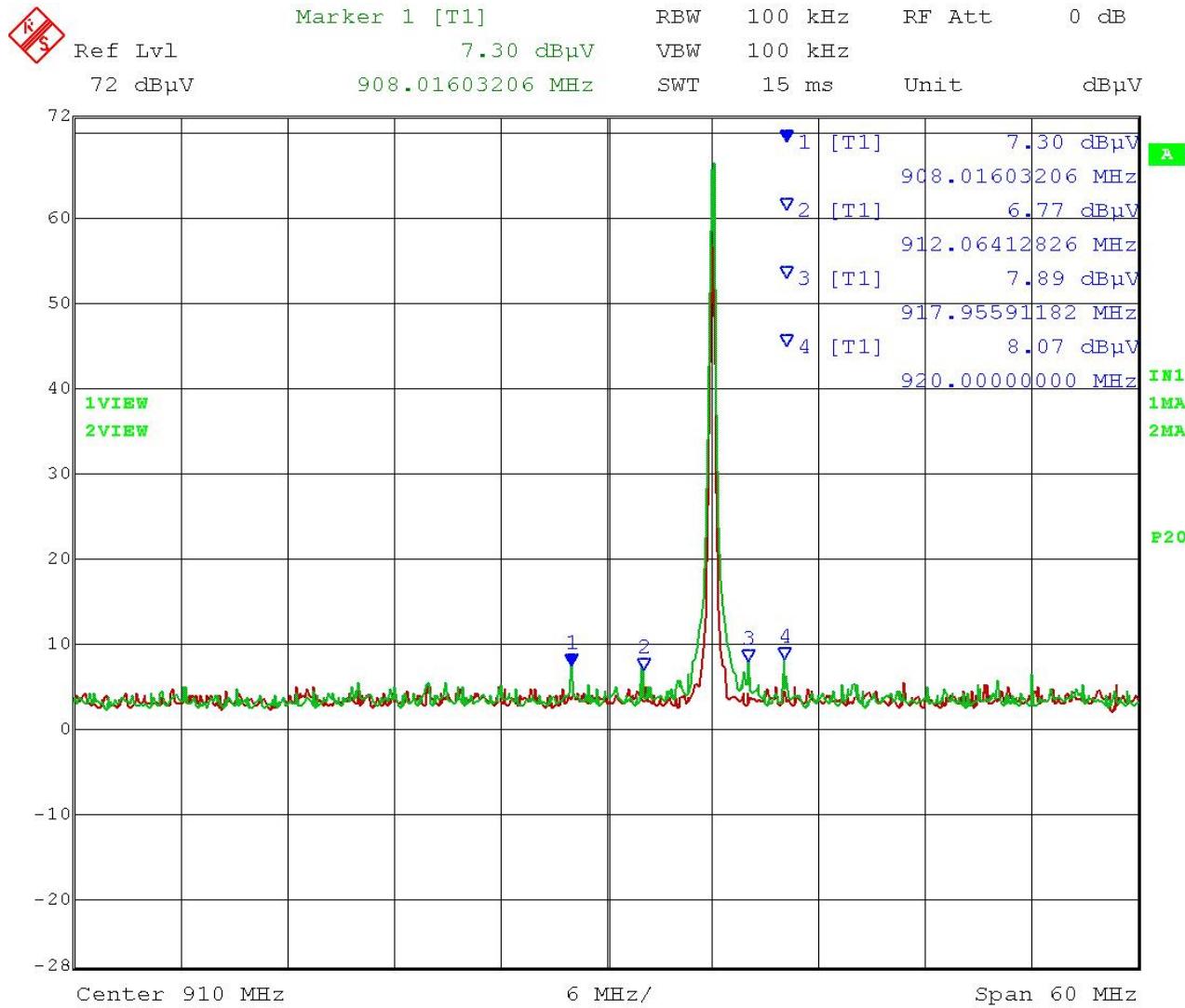
FCC ID: 2AC3T-B36T10RB

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## RADIATION INTERFERENCE

### Test Data: Plots

CH 2 916 MHz 880-940 MHz Peak Scan



Date: 15.DEC.2014 13:45:57

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

FCC ID: 2AC3T-B36T10RB

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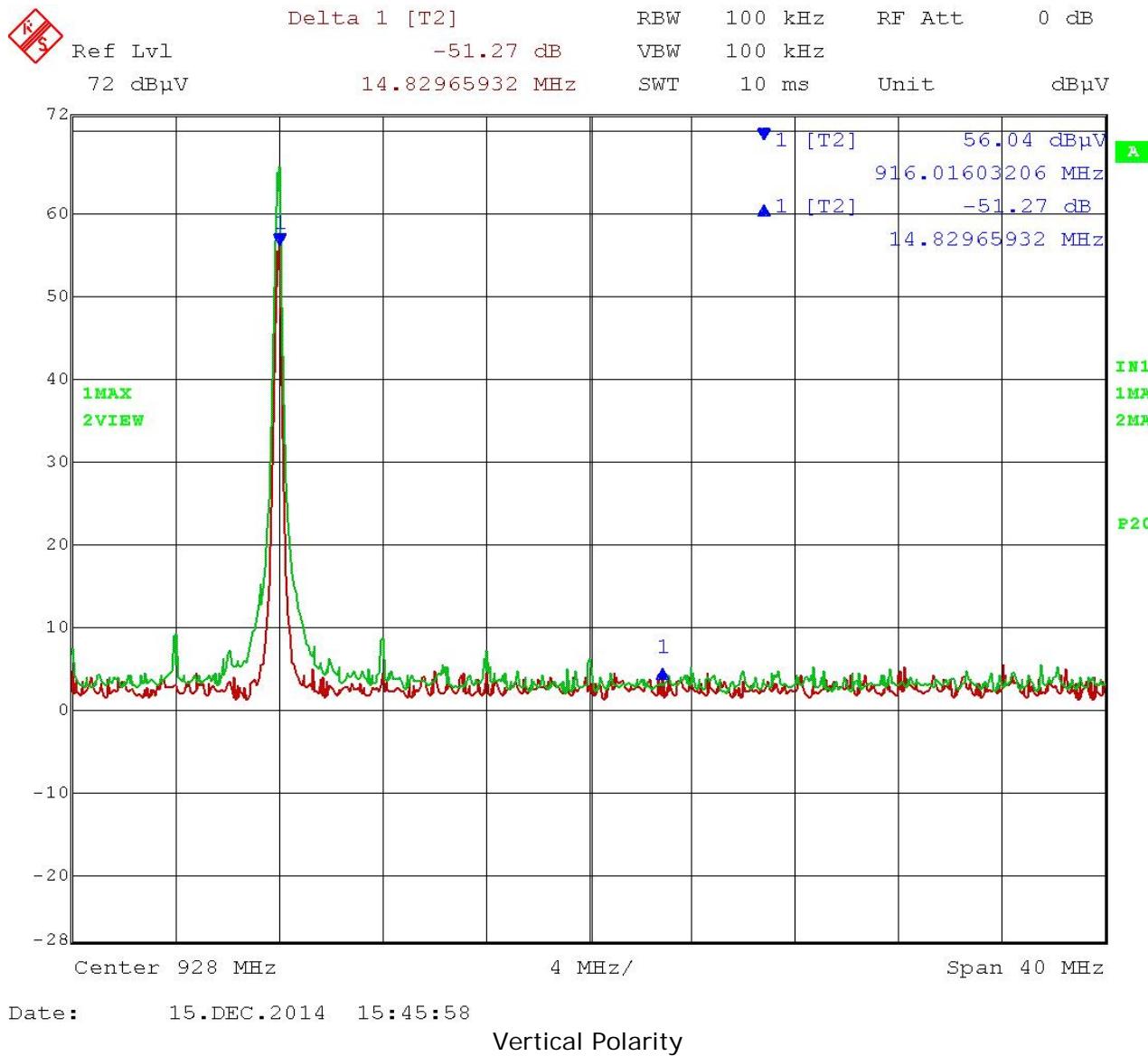
## BAND EDGE

**Rules Part No.:** 15.249 (d), & RSS-GEN (i4), 4.6

**Requirements:** 50 dBc or in the case of restricted bands 54 dBuV/m. The field strength of any emissions appearing outside the bandedges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

### Test Data: Upper Band Edge

CH 2 916 MHz Vertical



Results Meet Requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

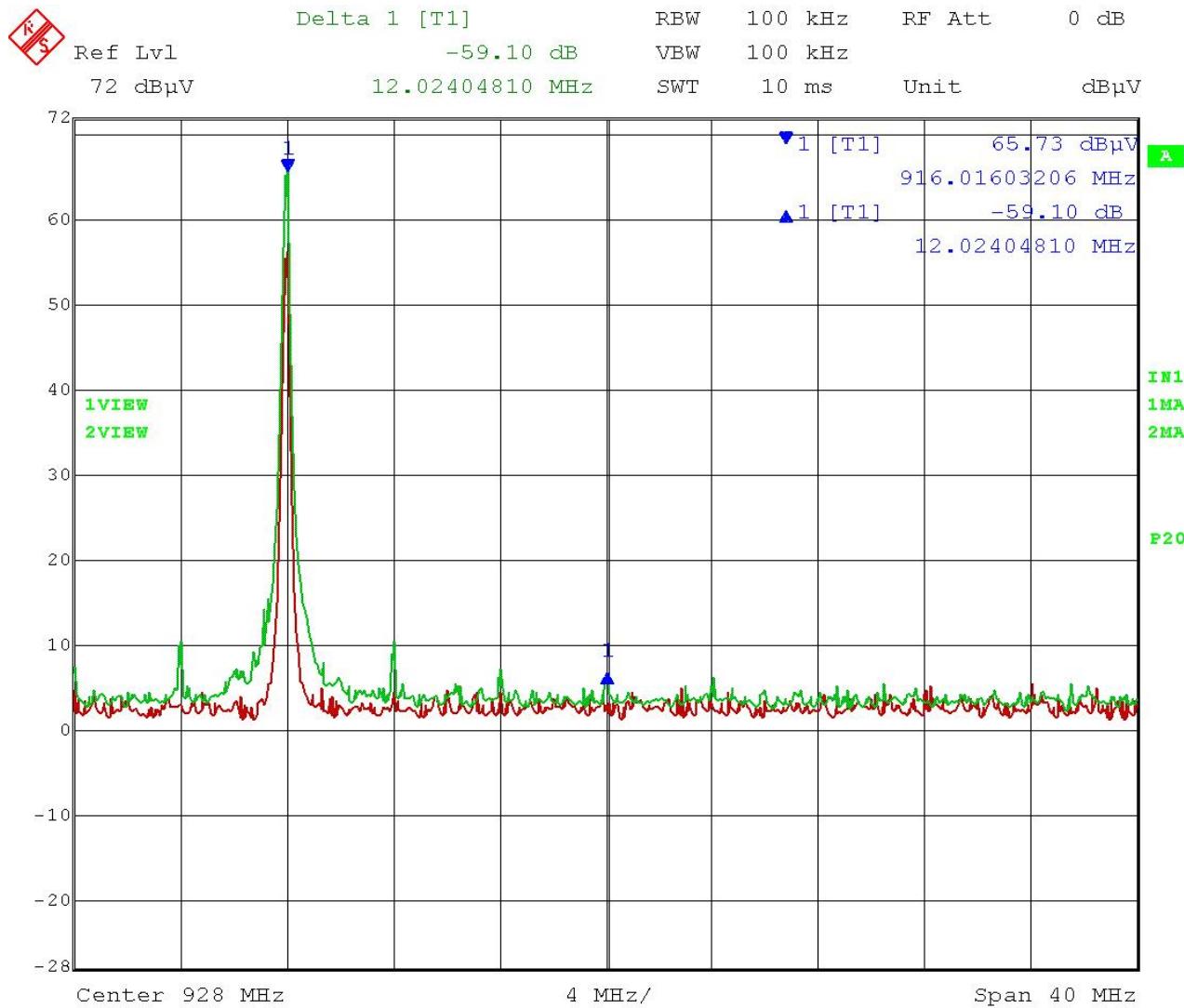
FCC ID: 2AC3T-B36T10RB

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## BANDEDGE

### Test Data: Upper Bandedge

CH 2 916 MHz Horizontal



Date: 15.DEC.2014 15:46:44  
Horizontal Polarity

Results Meet Requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

FCC ID: 2AC3T-B36T10RB

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## BANDEDGE

### Test Data: Upper Bandedge

CH 1 908.4 MHz Vertical



Date: 15.DEC.2014 15:43:26  
Vertical Polarity

Results Meet Requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

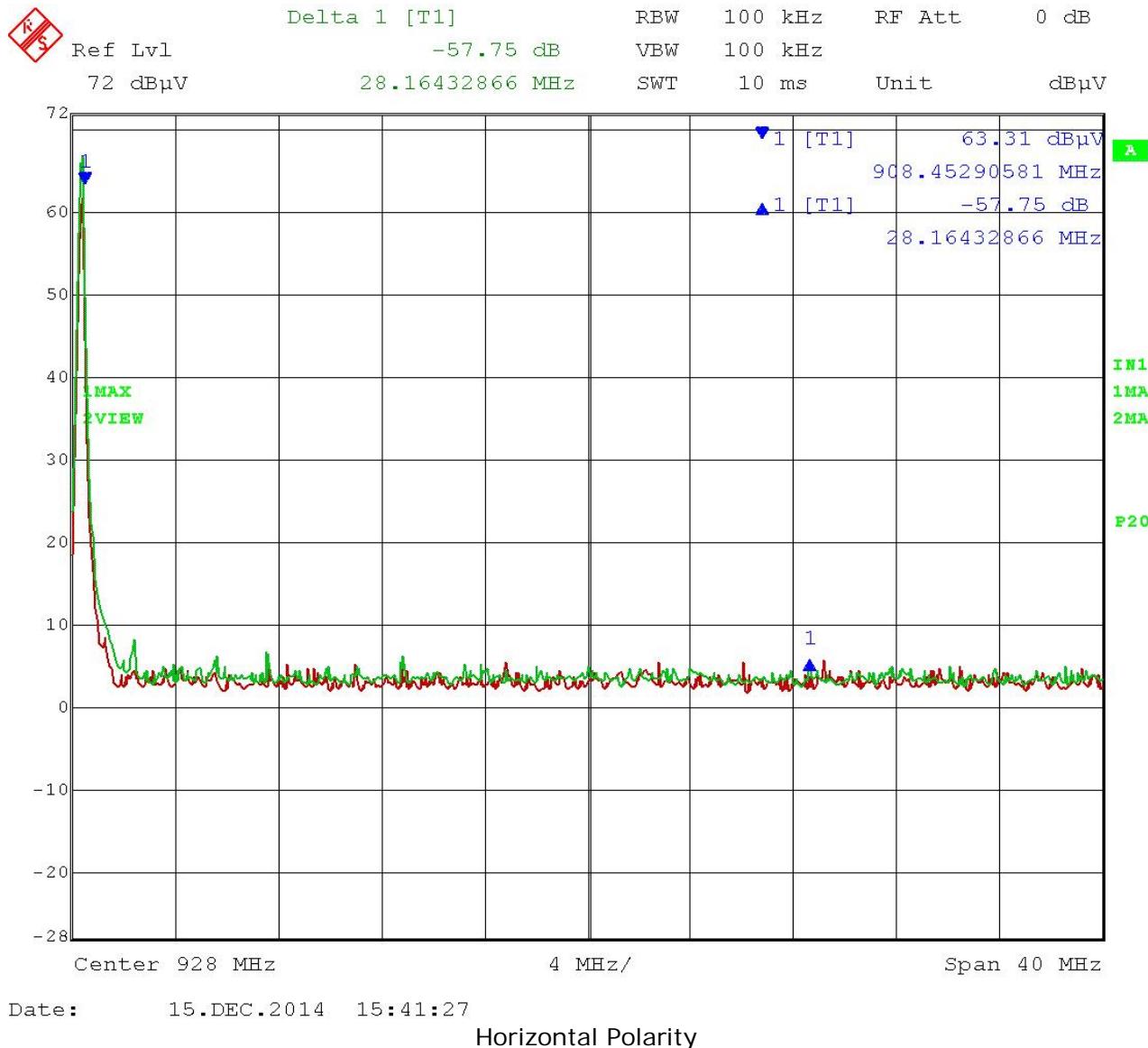
FCC ID: 2AC3T-B36T10RB

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## BANDEDGE

### Test Data: Upper Bandedge

CH 1 908.4 MHz Horizontal



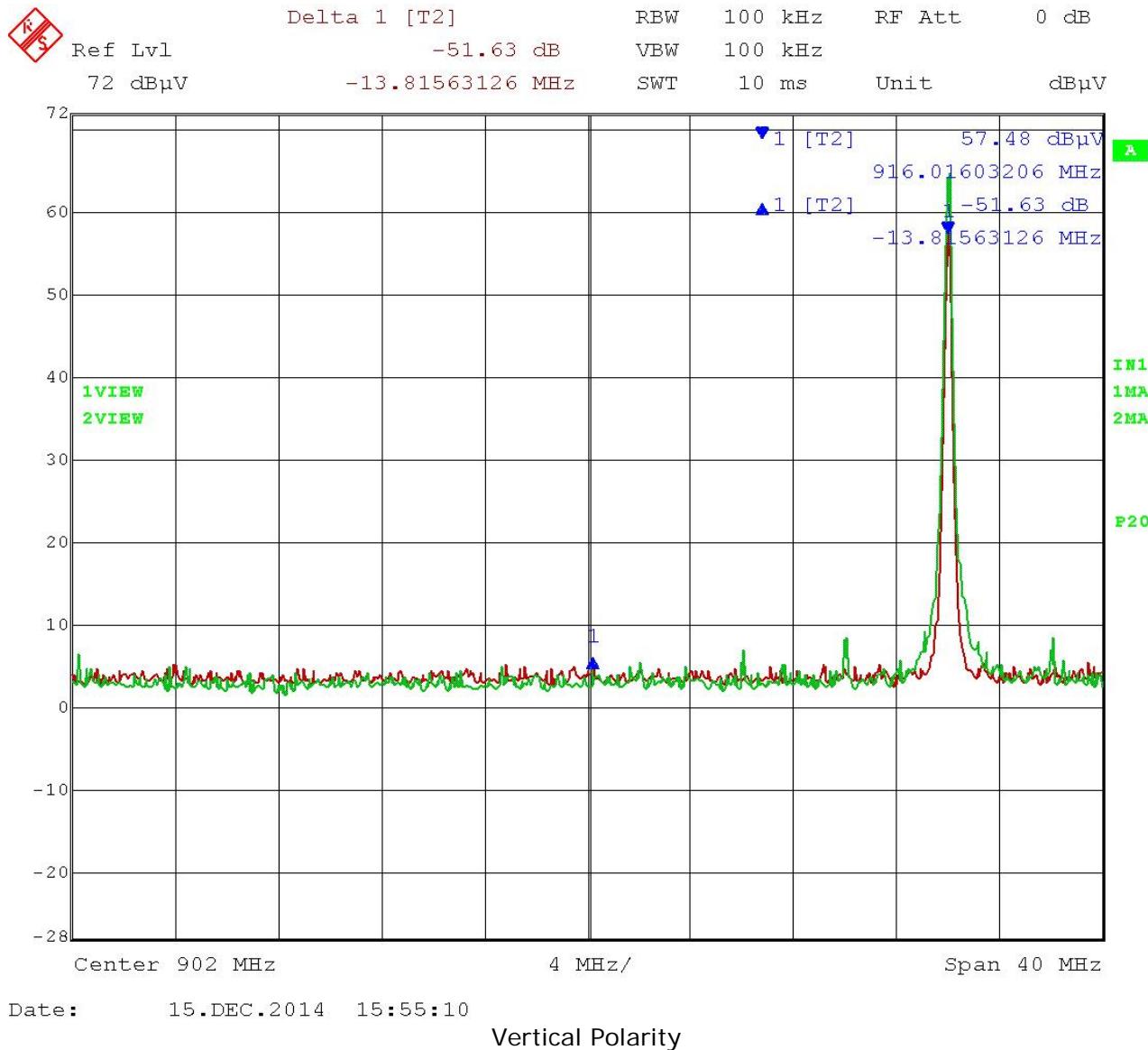
Results Meet Requirements

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## BANDEDGE

### Test Data: Lower Bandedge

CH 2 916 MHz Vertical



Results Meet Requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

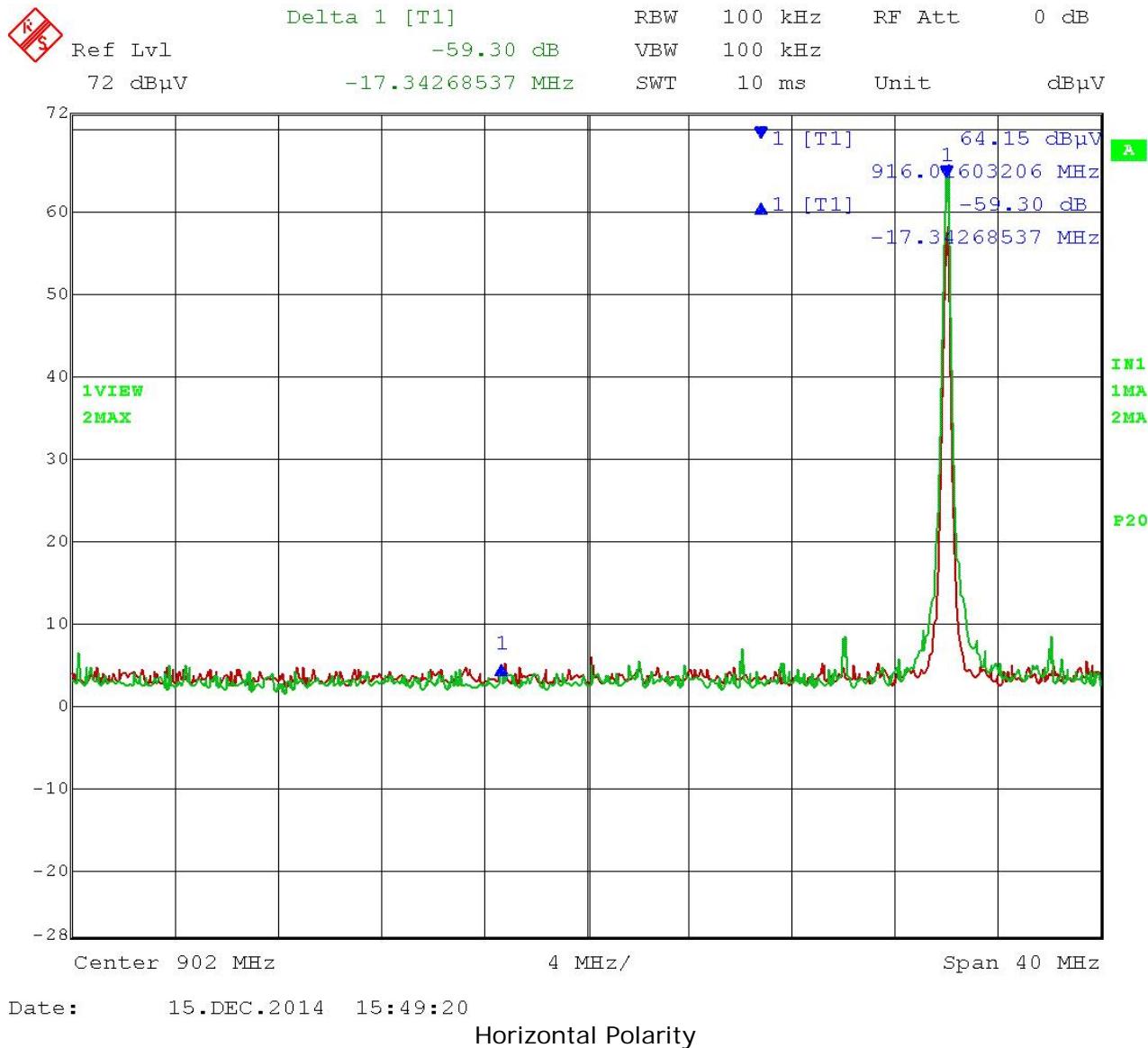
FCC ID: 2AC3T-B36T10RB

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## BANDEDGE

### Test Data: Lower Bandedge

CH 2 916 MHz Horizontal



Results Meet Requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

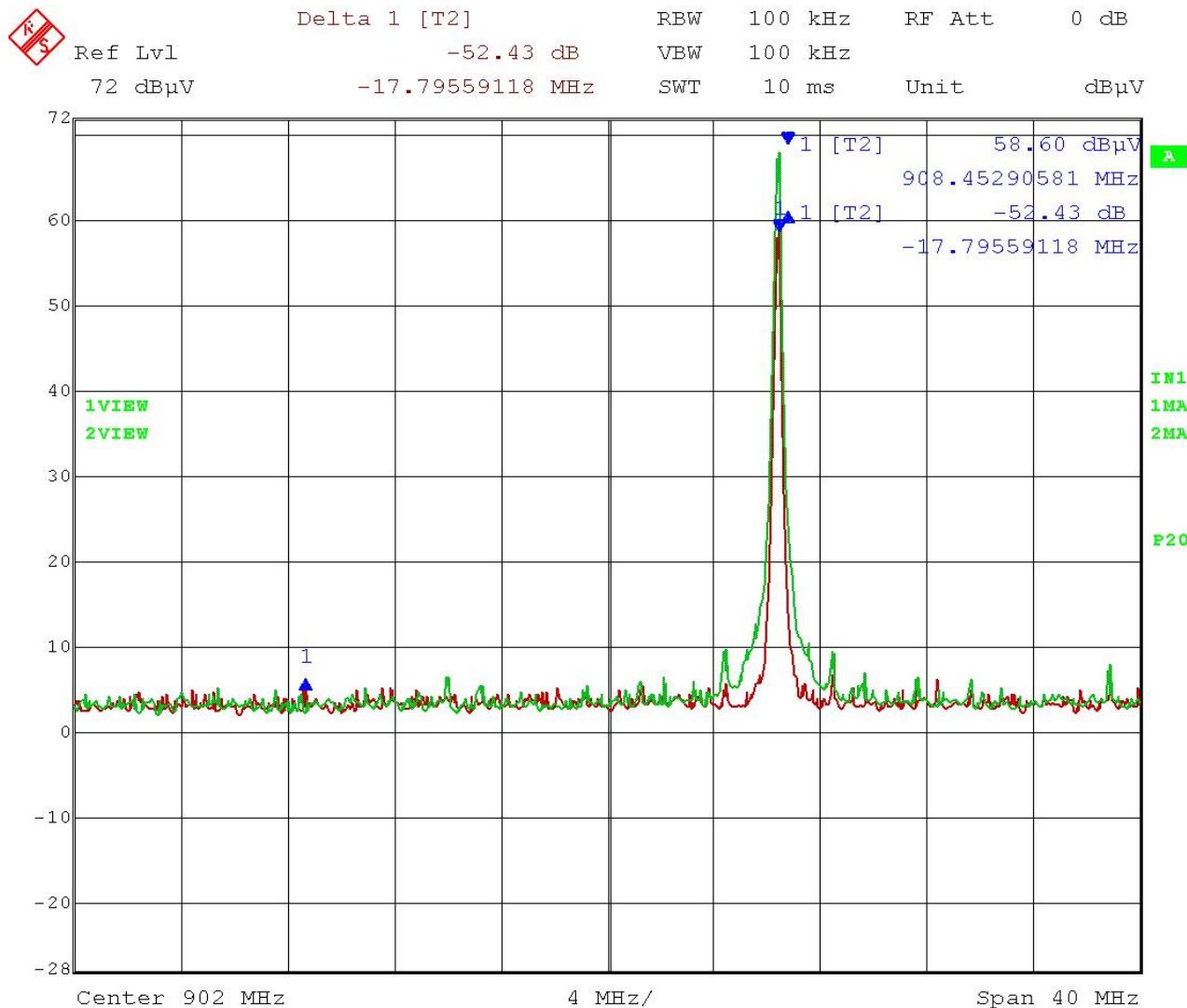
FCC ID: 2AC3T-B36T10RB

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## BANDEDGE

### Test Data: Lower Bandedge

CH 1 908.4 MHz Vertical



Date: 15.DEC.2014 15:38:37

Vertical Polarity

Results Meet Requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB

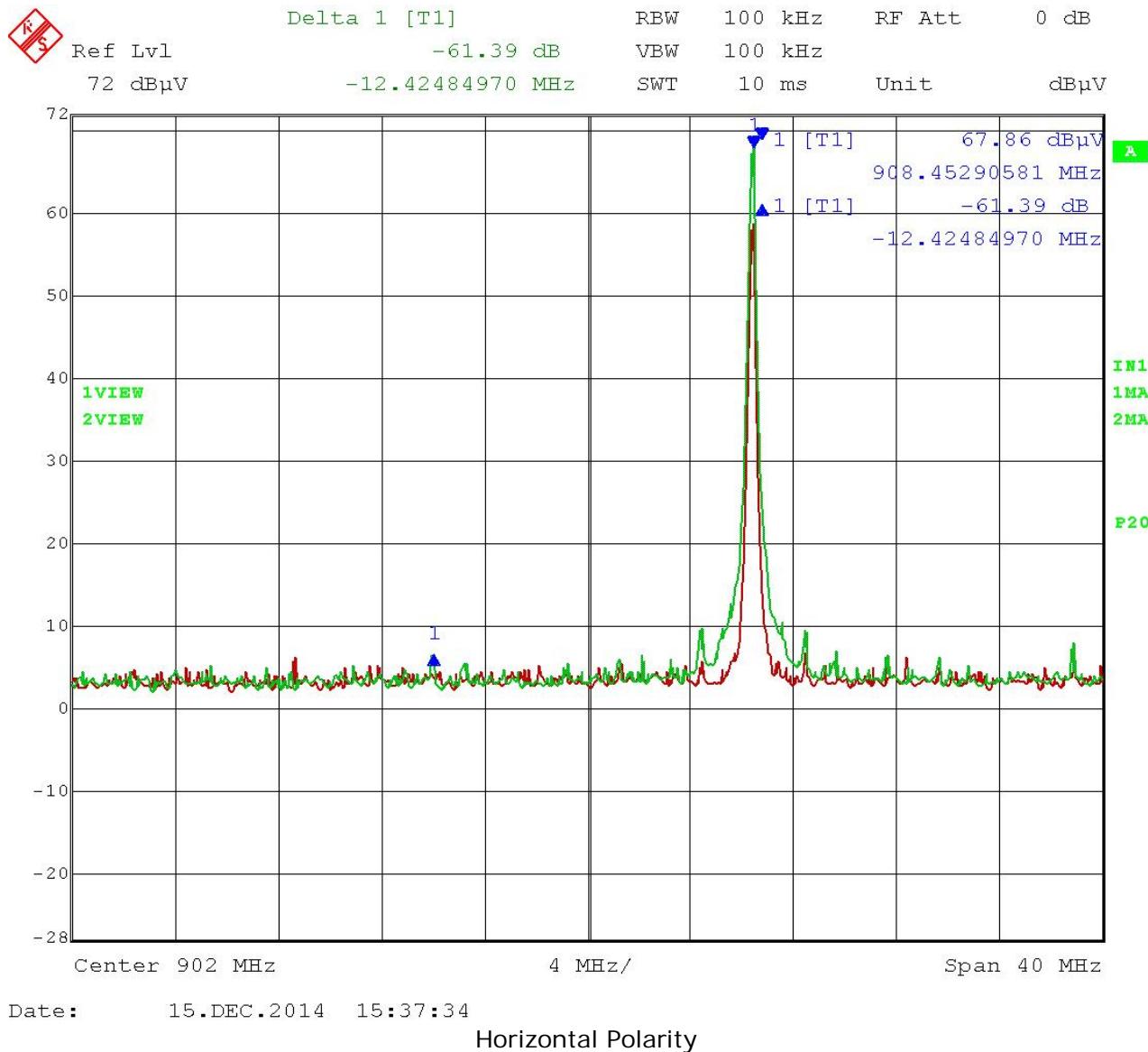
FCC ID: 2AC3T-B36T10RB

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## BANDEDGE

### Test Data: Lower Bandedge

CH 1 908.4 MHz Horizontal



Results Meet Requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

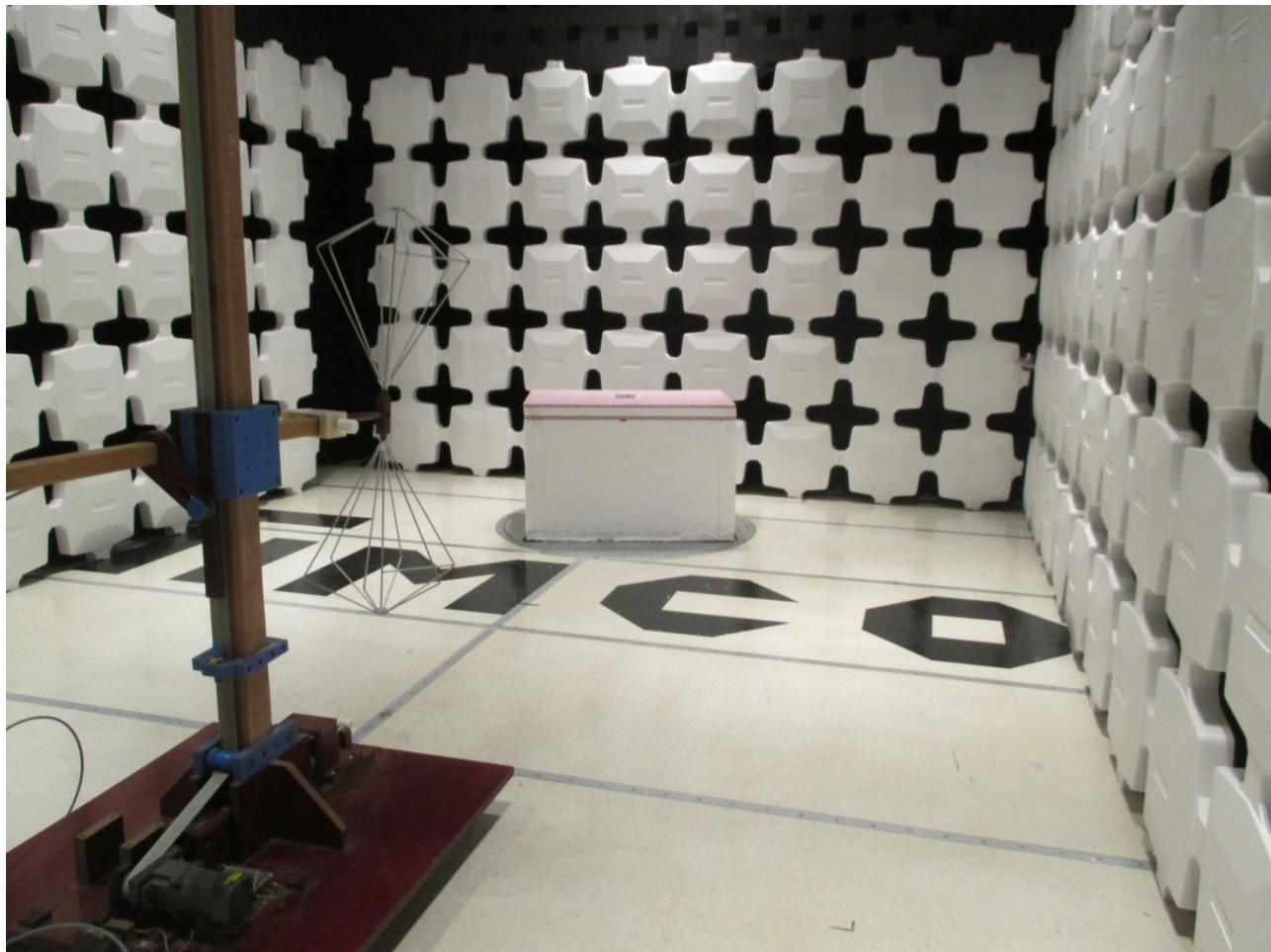
IC: 12323A-B36T10RB

FCC ID: 2AC3T-B36T10RB

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## EUT SETUP PHOTOS

### Radiated Setup



APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

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## EUT SETUP PHOTOS

### Final EUT Setup



APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

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## EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Biconnical Chamber	Eaton Chamber	94455-1	1057	06/14/13	06/14/15
Antenna: Log-Periodic Chamber	Eaton	96005	1243	05/31/13	05/31/15
3-Meter Semi-Anechoic Chamber	Panashield	N/A	N/A	12/31/13	12/31/15
Antenna: Double-Ridged Horn/ETS Horn 1	ETS-Lindgren Chamber	3117	00035923	06/13/14	06/13/16
EMI Test Receiver R & S ESIB 40 Screen Room	Rohde & Schwarz	ESIB 40	100274	08/12/14	08/12/16
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	03/11/14	03/11/16

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

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FCC ID: 2AC3T-B36T10RB

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