## **CERTIFICATION TEST REPORT**

Manufacturer: Deister Electronic GmbH

11 Hermann Bahlsen Str Barsinghausen D-30890

**GERMANY** 

Applicant: Deister Electronics USA, Inc.

8576 Wellington Road

Manassas, Virginia 20109 USA

Product Name: Deister Electronics Wireless Door Lock Controller

**Product Description:** Device connects either wired or wirelessly to a Physical Access

Control System and provides full function Door Control and

**Status Monitoring** 

**Operating Voltage/Freq.** 

of EUT During Testing: 24VDC

Model: WCU2

FCC ID: IXLWCU2

Testing Commenced: 2023-03-29

**Testing Ended:** 2023-05-31

**Summary of Test Results: In Compliance** 

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications and/or manufacturer's statement. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.



Order Number: F2P29217 Applicant: Deister Electronics USA, Inc.

Model: WCU2

### Standards:

- **❖** FCC Part 15 Subpart C, Section 15.209
- ❖ FCC Part 15 Subpart C, Section 15.215(c) Additional provisions to the general radiated emission limitations
- **❖** FCC Part 15 Subpart A, Section 15.31(e) Measurement Standards

John Schilled

❖ FCC15.207 - Conducted Limits

**Evaluation Conducted by:** 

Julius Chiller, Senior Wireless Project Engineer

Report Reviewed by:

Ken Littell, Vice President of Operations

F2 Labs 26501 Ridge Road Damascus, MD 20872 Ph 301.253.4500 F2 Labs 16740 Peters Road Middlefield, OH 44062 Ph 440.632.5541 F2 Labs 8583 Zionsville Road Indianapolis, IN 46268 Ph 317.610.0611

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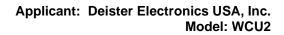




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Model: WCU2

### 1 ADMINISTRATIVE INFORMATION

## 1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

## 1.2 Measurement Procedure:

All measurements were performed according to ANSI C63.10 and recommended FCC procedure of measurement of equipment operating under Section 15.209. A list of the measurement equipment can be found in Section 6.

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Model: WCU2

# 1.3 Uncertainty Budget:

The uncertainty in EMC measurements arises from several factors which affect the results, some associated with environmental conditions in the measurement room, the test equipment being used, and the measurement techniques adopted.

The measurement uncertainty budgets detailed below are calculated from the test and calibration data and are expressed with a 95% confidence factor using a coverage factor of k=2. The Uncertainty for a laboratory is referred to as *U*lab. For Radiated and Conducted Emissions, the Expanded Uncertainty is compared to the *U*cispr values to determine if a specific margin is required to deem compliance.

### *U*lab

Measurement Range	Combined Uncertainty	Expanded Uncertainty
Radiated Emissions <1 GHz @ 3m	2.54	5.07dB
Radiated Emissions <1 GHz @ 10m	2.55	5.09dB
Radiated Emissions 1 GHz to 2.7 GHz	1.81	3.62dB
Radiated Emissions 2.7 GHz to 18 GHz	1.55	3.10dB
AC Power Line Conducted Emissions, 150kHz to 30 MHz	1.38	2.76dB
AC Power Line Conducted Emissions, 9kHz to 150kHz	1.66	3.32dB

*U*cispr

<b>C</b> 0.0 <b>p</b> .	
Measurement Range	Expanded Uncertainty
Radiated Emissions <1 GHz @ 3m	5.2dB
Radiated Emissions <1 GHz @ 10m	5.2dB
Radiated Emissions 1 GHz to 2.7 GHz	Under Consideration
Radiated Emissions 2.7 GHz to 18 GHz	Under Consideration
AC Power Line Conducted Emissions, 150kHz to 30 MHz	3.6dB
AC Power Line Conducted Emissions, 9kHz to 150kHz	4.0dB

If *U*lab is less than or equal to *U*cispr, then:

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.

If *U*lab is greater than *U*cispr in table 1, then:

- compliance is deemed to occur if no measured disturbance, increased by (*U*lab *U*cispr), exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance, increased by (*U*lab *U*cispr), exceeds the disturbance limit.

Note: Only measurements listed in the tables above that relate to tests included in this Test Report are applicable.

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Applicant: Deister Electronics USA, Inc. Model: WCU2 Order Number: F2P29217

#### 1.4 **Document History:**

Document Number	Description	Issue Date	Approved By
F2P29217-01E	First Issue	2023-05-31	K. Littell

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Order Number: F2P29217 Applicant: Deister Electronics USA, Inc.
Model: WCU2

2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
Occupied Bandwidth	CFR 47 Part 15.215(c)	Complies
Field Strength of Emissions	CFR 47 Part 15.209	Complies
Radiated Spurious Emissions	CFR 47 Part 15.209	Complies
Conducted Emissions	CFR 47 Part 15.207(a)	Complies
Variation of the Input Power	CFR 47 Part 15.31(e)	Complies

Modifications Made to the Equipment
None

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Applicant: Deister Electronics USA, Inc. Model: WCU2

#### 3 **TABLE OF MEASURED RESULTS**

Test	13.56 MHz
<sup>1</sup> Field Strength of Fundamental	-17.25 dBμA (34.25 dBμV/m)
Limit for Fundamental at 30 meters	30 uV/m (29.5 dBμV/m)
Limit for Fundamental at 3 meters corrected for 20dB/decade	49.5 dBµV/m
-20dB Occupied Bandwidth	499kHz
<sup>2</sup> Variation of Input Power to 9VDC	-17.929 dBμA / 33.57 dBμV
<sup>2</sup> Variation of Input Power to 24VDC (Nominal)	-17.254 dBμA / 34.2 dBμV
<sup>2</sup> Variation of Input Power to 15VDC	17.834 dBµA / 33.6 dBµV

<sup>&</sup>lt;sup>1</sup> 13.56 MHz Field Strength was measured at 3m. The dBµA/m was converted to dBµV/m by adding 51.5dB.

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<sup>&</sup>lt;sup>2</sup> This DC device is rated to operate at 12VDC and not to exceed 24VDC. The low voltage testing was done at 9VDC below which the unit ceased to function. Readings were recorded at 3m distance.



Order Number: F2P29217 Applicant: Deister Electronics USA, Inc.

Model: WCU2

## 4 ENGINEERING STATEMENT

This report has been prepared on behalf of Deister Electronics USA, Inc., to provide documentation for the testing described herein. This equipment has been tested and found to comply with part 15.209 of the FCC Rules using ANSI C63.10 2013 and Part 15 standards. The test results found in this test report relate only to the items tested.

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Model: WCU2

## 5 EUT INFORMATION AND DATA

# 5.1 Equipment Under Test:

Product: **RFID Reader** 

Model: WCU2 Serial No.: 32584 FCC ID: **IXLWCU2** 

## 5.2 Trade Name:

Deister Electronics USA, Inc.

# 5.3 Power Supply:

24VDC

# 5.4 Applicable Rules:

CFR 47, Part 15.209

# 5.5 Equipment Category:

Radio Transmitter

### 5.6 Antenna:

Integral

### 5.7 Accessories:

Power Supply: BK Precision model 1685B, s/n 346f17303\* \*Indicates F2 Labs-supplied equipment.

## 5.8 Test Item Condition:

The equipment to be tested was received in good condition.

## 5.9 Testing Algorithm:

EUT was set to transmit a continuous signal at 13.56 MHz when power is present.

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# 6 LIST OF MEASUREMENT INSTRUMENTATION

Equipment Type	Asset Number	Manufacturer	Model	Serial Number	Calibration Due Date	
Shielded Chamber	CL166-E	Albatross Projects	B83117-DF435- T261	US140023	2023-08-22	
Receiver	CL151	Rohde & Schwarz	ESU40	100319	2023-03-31	
Active 18" Loop Antenna	CL163- Loop	A.H. Systems, Inc.	EHA-52B	100	2023-10-23	
Antenna, JB3 Combination	CL175	Sunol Sciences	JB3	A030315	2023-09-22	
Software:	Tile	e Version 3.4.B.3	B.3 Software Verifi		ied: 2023-03-29, 2023-05-31	
Software:	EMC	32, Version 8.53.0	Software Verified: 2023-03-29, 2023-05-31			
Spectrum Analyzer	0204	Hewlett Packard	HP8591A	3149A02546	2023-03-29	
Software:	E	MC Analyzer 85712D Rev	. A.00.01	Date Verified:	2023-03-29	
Transient Limiter	CL102	Hewlett Packard	11947A	3107A03325	2024-04-11	
LISN	CL181	Com-Power	LI-125A	191226	2023-12-01	
LISN	CL182	Com-Power	LI-125A	191225	2023-12-01	
Temp/Hum. Recorder	CL232	Extech	445814	01	2023-04-18	
Temp/Hum. Recorder	CL295	Thermpro	TP50	3	2024-04-27	
Receiver	CL204	Rohde & Schwarz	ESR7	101714	2024-04-12	

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Model: WCU2

### 7 OCCUPIED BANDWIDTH

# 7.1 Requirements:

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the -20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage.

Bandwidth measurements were made at the 13.56 MHz frequency. The 20dB bandwidth was measured using the Marker Delta method. The 99% bandwidth was measured using the analyzer's OBW measurement function.

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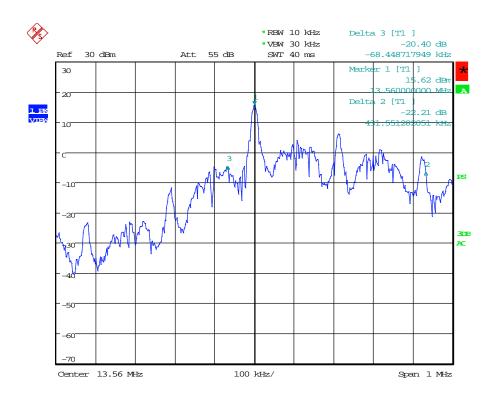


Applicant: Deister Electronics USA, Inc. Model: WCU2

# 7.2 Test Data - Occupied Bandwidth

Test Date(s):	2023-04-21	Test Engineer(s):	J. Chiller
Standards:		Air Temperature:	22.5°C
	CFR 47 Part 15.215(c)	Relative Humidity:	43%

-20dB: 13.56MHz

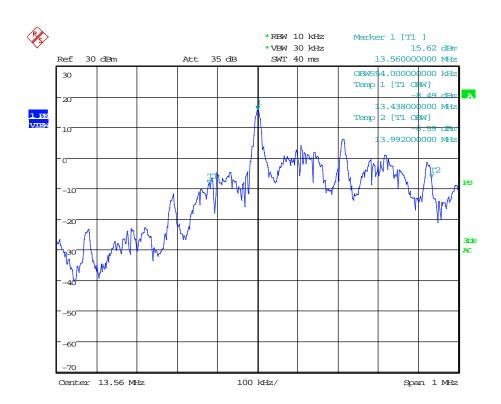


Date: 21.APR.2023 13:40:06

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99%: 13.56 MHz

Date: 21.APR.2023 13:39:00

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Model: WCU2

8 FIELD STRENGTH OF EMISSIONS FROM INTENTIONAL RADIATORS

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/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

# Notes:

During the pre-scan evaluation, the EUT was rotated in all possible directions and all three orthogonal positions to find the maximum emissions. The orthogonal position that showed the highest emissions was used. The antenna was raised between 1 and 4 meters and the EUT turntable was rotated 360 degrees to maximize the emissions.

13.56 MHz Field Strength was measured at 3m.

This DC device is rated to operate at 12VDC and not to exceed 24VDC. The low voltage testing was done at 9VDC below which the unit ceased to function. Readings were recorded at 3m distance.

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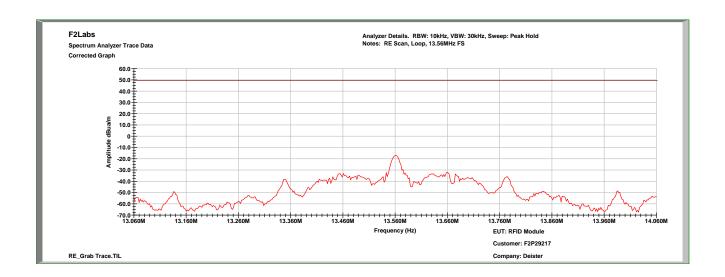
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Order Number: F2P29217 Applicant: Deister Electronics USA, Inc.
Model: WCU2

# 8.1 Test Data - Field Strength of Emissions from Intentional Radiators

Test Date(s):	2023-03-29	Test Engineer(s):	J. Chiller
Standarda	CFR 47 Part 15.209	Air Temperature:	22.5°C
Standards:		Dolotivo Uumidituu	33%
Results:	Complies	Relative Humidity:	33%



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Order Number: F2P29217 Applicant: Deister Electronics USA, Inc.

Model: WCU2

#### 8.2 **Test Data – Spurious Emissions**

Plots are peak, max hold pre-scan data included only to determine what frequencies to investigate and measure. During the pre-scan evaluation, the EUT was rotated in all possible directions and three orthogonal positions to find the maximum emissions. The orthogonal position that showed the highest emissions was used. At some frequencies, no emissions from the EUT were measurable over the ambient noise floor. The readings did not change with EUT on and EUT off.

At least 6 of the highest frequencies were measured per ANSI 63.4 in a 3-meter anechoic chamber. Frequencies below 1GHz were measured using a quasi-peak detector. The antenna was raised between 1 and 4 meters and the EUT turntable was rotated 360 degrees to maximize the emissions. Some of the frequencies did not change with the EUT on or off. At those frequencies, the test distance was shortened to 1 meter and still no emissions from the EUT were visible or over the ambient or limit. Frequencies were scanned from 9kHz to 1000 MHz and the highest emissions are listed below.

In the following plots, the red line indicates the measurement with the EUT on. Emissions to be found by the EUT were measured and listed in the table following the plots.

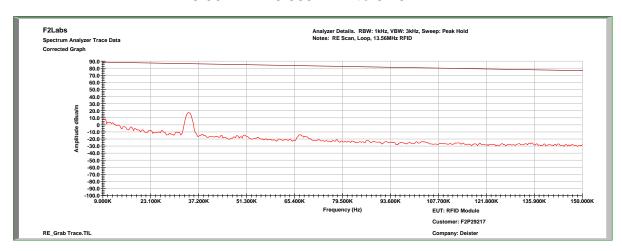
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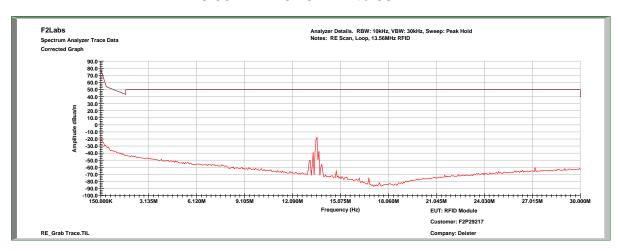
Applicant: Deister Electronics USA, Inc. Model: WCU2

Test Date(s):	2023-03-29	Test Engineer(s):	J. Chiller
Ctondordo.	CFR 47 Part 15.209	Air Temperature:	22.5°C
Standards:		Bolotivo Uumiditus	2.40/
Results:	Complies	Relative Humidity:	34%

## 13.56 MHz: 0.009 MHz to 0.15 MHz



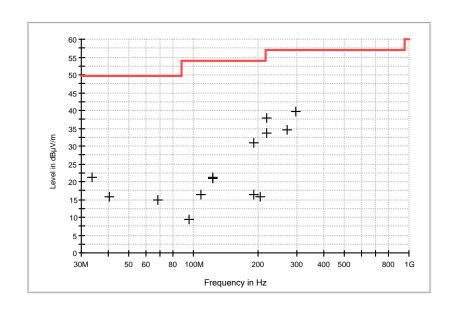
# 13.56 MHz: 0.15 MHz to 30 MHz





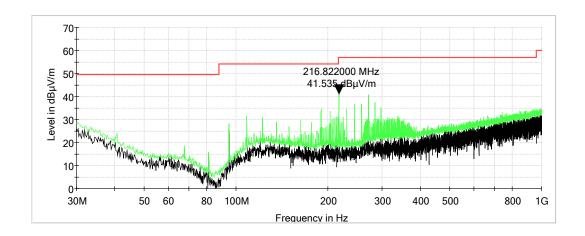
Applicant: Deister Electronics USA, Inc. Model: WCU2 Order Number: F2P29217

Frequency (MHz)	Ant. Pol.	Antenna Height (cm)	Azimuth (degrees)	Reading (dBµV)	Cable Loss & Antenna Factor (dB)	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
33.490000	V	100.00	0.00	25.0	-3.8	21.20	49.6	-28.4
40.670000	V	100.00	0.00	25.0	-9.2	15.80	49.6	-33.8
67.830000	V	100.00	0.00	29.4	-14.4	15.00	49.6	-34.6
94.800000	V	100.00	0.00	23.1	-13.7	9.40	54.0	-44.6
108.380000	V	100.00	5.00	26.4	-10.0	16.40	54.0	-37.6
121.960000	V	100.00	0.00	29.3	-8.2	21.10	54.0	-32.9
121.960000	Н	100.00	166.00	29.2	-8.2	21.00	54.0	-33.0
189.660000	V	100.00	1.00	26.2	-9.9	16.30	54.0	-37.7
189.860000	Н	100.00	221.00	40.9	-9.9	31.00	54.0	-23.0
203.240000	Н	100.00	49.00	25.4	-9.5	15.90	54.0	-38.1
217.020000	Н	100.00	161.00	48.2	-10.4	37.80	56.9	-19.1
217.020000	V	100.00	0.00	44.0	-10.4	33.60	56.9	-23.3
271.140000	V	100.00	0.00	42.3	-7.7	34.60	56.9	-22.3
298.300000	Н	100.00	192.00	46.9	-7.4	39.50	56.9	-17.4

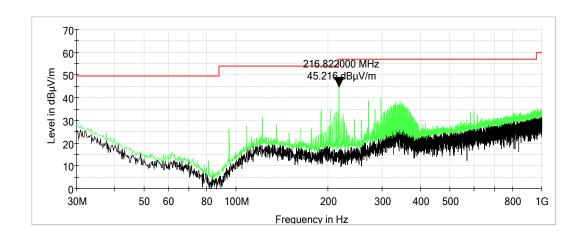




# 13.56 MHz, Characterization Scan, 30 MHz to 1000 MHz, Vertical



# 13.56 MHz, Characterization Scan, 30 MHz to 1000 MHz, Horizontal



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Applicant: Deister Electronics USA, Inc.

Model: WCU2

## 9 VARIATION OF THE INPUT POWER, 15.31(e)

# 9.1 Requirements:

For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery-operated equipment, the equipment tests shall be performed using a new battery.

This DC device is rated to operate at 12VDC and not to exceed 24VDC. The low voltage testing was done at 9VDC below which the unit ceased to function.

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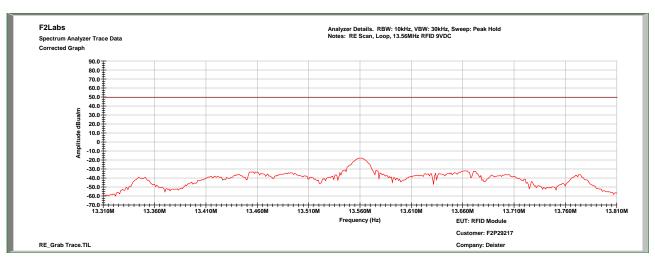
Applicant: Deister Electronics USA, Inc.

# 9.2 Test Data – Variation of the Input Power

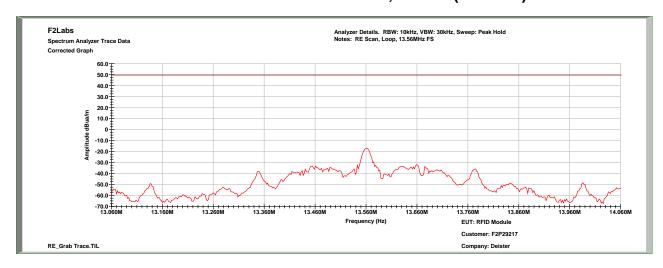
Test Date(s):	2023-03-29	Test Engineer(s):	J. Chiller	
Standards:	CED 47 Dort 15 21(a)	Air Temperature:	22.7°C	
	CFR 47 Part 15.31(e)	Relative Humidity:	30%	
Results:	Complies*	Relative numbers.	30%	

<sup>\*</sup>The results showed that the fundamental frequency did not move outside the frequency band and the field strength did not increase above the limit during the variations.

# 13.56 MHz: Characterization Scan, 9VDC



# 13.56 MHz: Characterization Scan, 24VDC (Nominal)



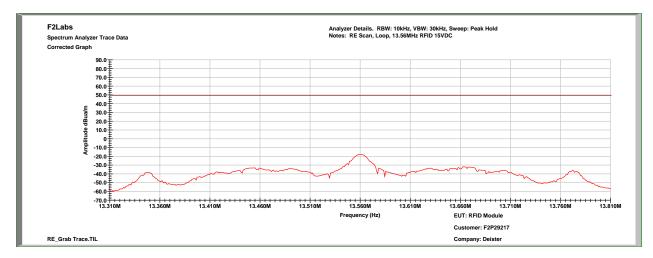
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13.56 MHz: Characterization Scan, 15VDC



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Model: WCU2

## 10 CONDUCTED EMISSIONS

# 10.1 Requirements

In accordance with FCC CFR 47 Part 15.207(a), "Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted Limit (dBµV)				
Frequency of Emission (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

<sup>\*</sup>Decreases with the logarithm of the frequency.

### 10.2 Procedure

The EUT was placed on a 1.0 x 1.5 meter non-conductive table, 0.8 meter above a horizontal ground plane and 0.4 meter from a vertical ground plane. Power was provided to the EUT through a LISN bonded to a 3 x 2 meter ground plane. The LISN and peripherals were supplied power through a filtered AC power source. The output of the LISN was connected to the input of the receiver via a transient limiter, and emissions in the range 150 kHz to 30 MHz were measured. The measurements were recorded using the quasi-peak and average detectors as directed by the standard, and the resolution bandwidth during testing was 9 kHz. The raw measurements were corrected to allow for attenuation from the LISN, transient limiter and cables.

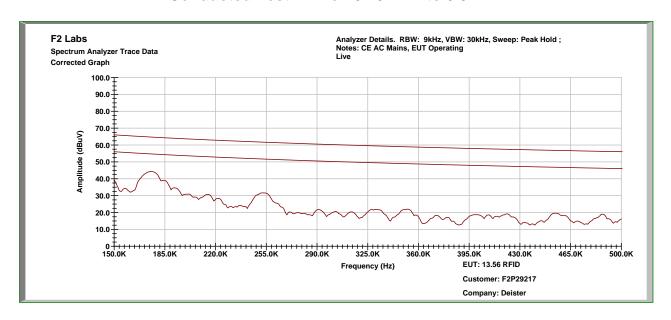
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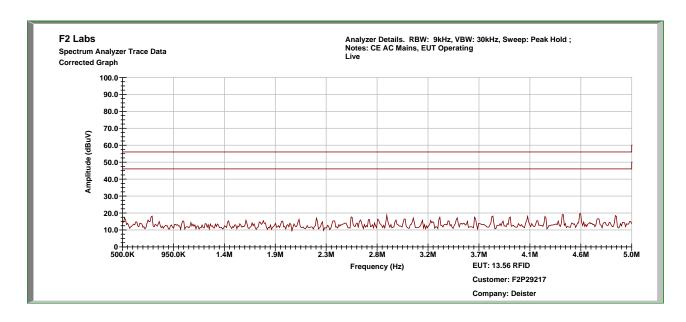
## 10.3 Conducted Emissions Test Data

Test Date:	2023-05-31	Test Engineer:	J. Chiller
Rule:	15.207	Air Temperature:	22.5° C
Test Results:	Complies	Relative Humidity:	41%

## Conducted Test - Live: 0.15 MHz to 0.5 MHz



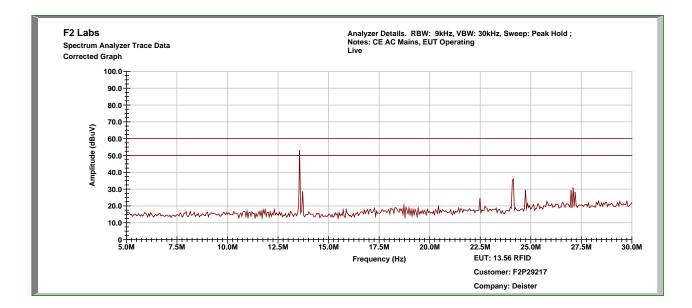
## Conducted Test - Live: 0.5 MHz to 5.0 MHz



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## Conducted Test - Live: 5.0 MHz to 30.0 MHz

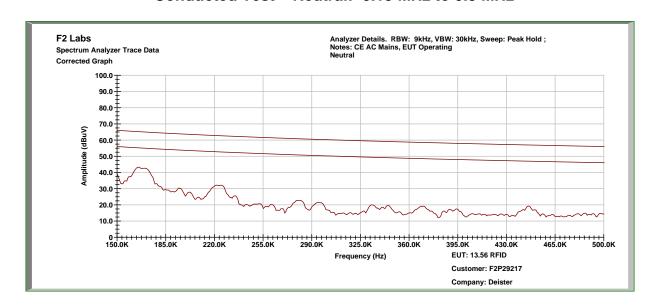


	Top Discrete Measurements								
No.	Conductor	Frequency (MHz)	Detector	Level (dBµV)	Adjustment (dB)	Results (dBµV)	Limit (dBµV)	Margin (dB)	
1 Live	13.56	Quasi-Peak	38.51	10.420	48.93	60.0	-11.1		
		Average	24.42	10.420	34.84	50.0	-15.2		

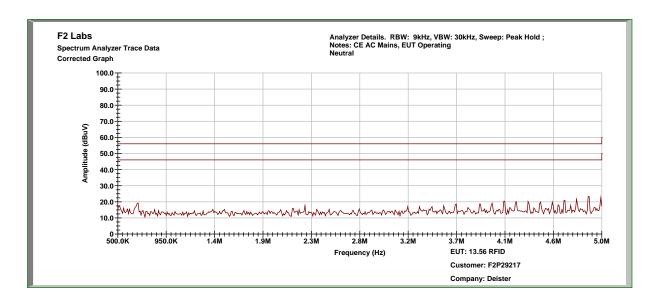
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# Conducted Test – Neutral: 0.15 MHz to 0.5 MHz



### Conducted Test - Neutral: 0.5 MHz to 5.0 MHz

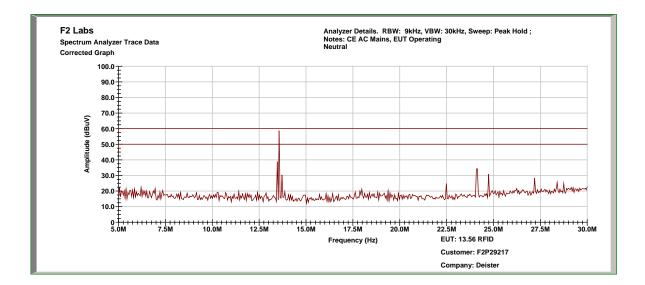


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## Conducted Test - Neutral: 5.0 MHz to 30.0 MHz



	Top Discrete Measurements								
No.	Conductor	Frequency (MHz)	Detector	Level (dBµV)	Adjustment (dB)	Results (dBµV)	Limit (dBµV)	Margin (dB)	
1 Neutral	Neutral 13.56	Quasi-Peak	43.7	10.84	54.54	60.0	-5.5		
		Average	29.55	10.84	40.39	50.0	-9.6		

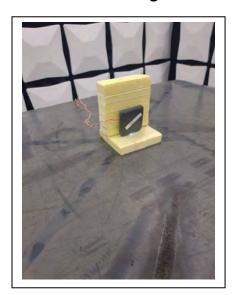
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Applicant: Deister Electronics USA, Inc. Model: WCU2

#### 11 **TEST SETUP PHOTOGRAPHS**

**Field Strength** 



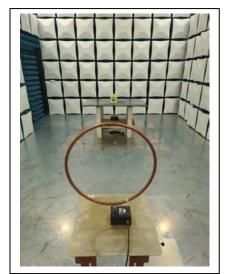
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Applicant: Deister Electronics USA, Inc. Model: WCU2 Order Number: F2P29217

Radiated Spurious Emissions: Less than 30 MHz

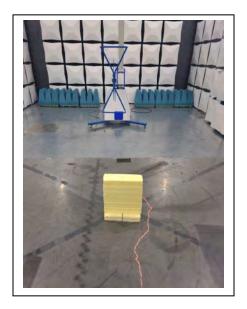






Applicant: Deister Electronics USA, Inc. Model: WCU2 Order Number: F2P29217

Radiated Spurious Emissions: 30 to 1000 MHz







# **Voltage Variations**



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# **Conducted Emissions**



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