



Onity Inc., A Division of UTCFS

OS700 Safe

FCC 15.225:2018

13.56 MHz Radio

Report # ONIT0047.1 Rev.2



NVLAP Lab Code: 200630-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America. This Report shall not be reproduced, except in full without written approval of the laboratory.

EAR-Controlled Data - This document contains technical data whose export and reexport/retransfer is subject to control by the U.S. Department of Commerce under the Export Administration Act and the Export Administration Regulations. The Department of Commerce's prior written approval may be required for the export or re-export/retransfer of such technical data to any foreign person, foreign entity or foreign organization whether in the United States or abroad.

More: <https://www.bis.doc.gov/index.php/forms-documents/regulations-docs/14-commerce-country-chart/fileT>



CERTIFICATE OF TEST

Last Date of Test: February 26, 2018
Onity Inc., A Division of UTCFS
Model: OS700 Safe

Radio Equipment Testing

Standards

Specification	Method
FCC 15.225:2018	ANSI C63.10:2013

Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	No	N/A	Not required for a battery powered EUT.
6.4	Field Strength of Fundamental	Yes	Pass	
6.4	Field Strength of Spurious Emissions Less Than 30 MHz	Yes	Pass	
6.5	Field Strength of Spurious Emissions Greater Than 30 MHz	Yes	Pass	
6.8	Frequency Stability	No	N/A	This testing was covered under test report ONIT0017 for FCC ID: R32-10103704P1

Deviations From Test Standards

None

Approved By:

Kyle Holgate, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information.

REVISION HISTORY



Revision Number	Description	Date	Page Number
01	New data for the following tests was added to the report: Field Strength of Fundamental, Field Strength of Spurious Emissions Less Than 30 MHz and Field Strength of Spurious Emissions Greater Than 30 MHz.	3-14-18	11
02	Oregon was added to the City, State, Zip field on the Product Description page.	7-6-18	8

ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Element to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with ISED.

European Union

European Commission – Within Element, we have a EU Notified Body validated for the EMCD and RED Directives.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIP / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC – Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

For details on the Scopes of our Accreditations, please visit:

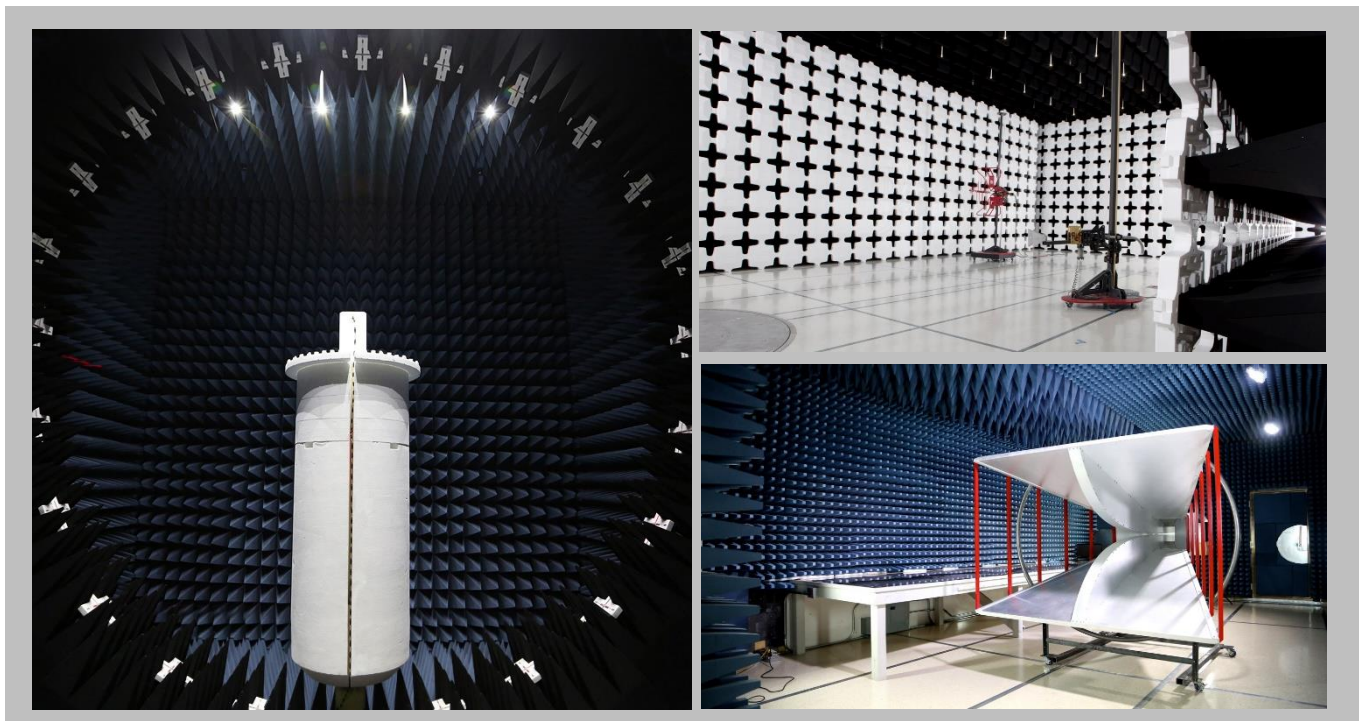
<http://portlandcustomer.element.com/ts/scope/scope.htm>

<http://gsi.nist.gov/global/docs/cabs/designations.html>

FACILITIES



California Labs OC01-17 41 Tesla Irvine, CA 92618 (949) 861-8918	Minnesota Labs MN01-10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214	Oregon Labs EV01-12 6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	Washington Labs NC01-05 19201 120 th Ave NE Bothell, WA 98011 (425)984-6600
NVLAP					
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0
Innovation, Science and Economic Development Canada					
2834B-1, 2834B-3	2834E-1, 2834E-3	N/A	2834D-1, 2834D-2	2834G-1	2834F-1
BSMI					
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R
VCCI					
A-0029	A-0109	N/A	A-0108	A-0201	A-0110
Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRR, MIC, MOC, NCC, OFCA					
US0158	US0175	N/A	US0017	US0191	US0157



MEASUREMENT UNCERTAINTY

Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

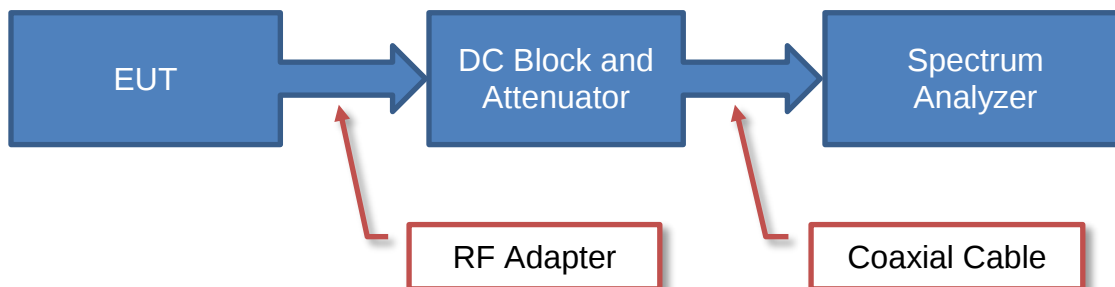
A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable test description page. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

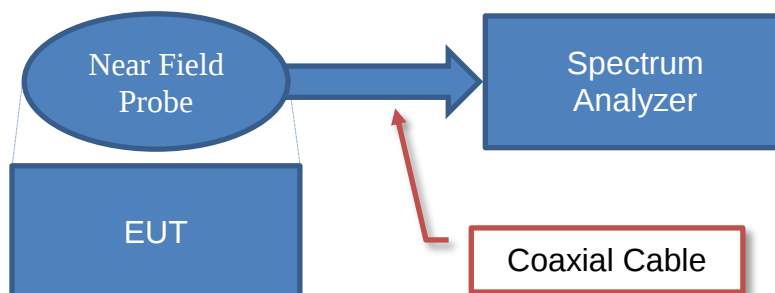
Test	+ MU	- MU
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	2.4 dB	-2.4 dB

Test Setup Block Diagrams

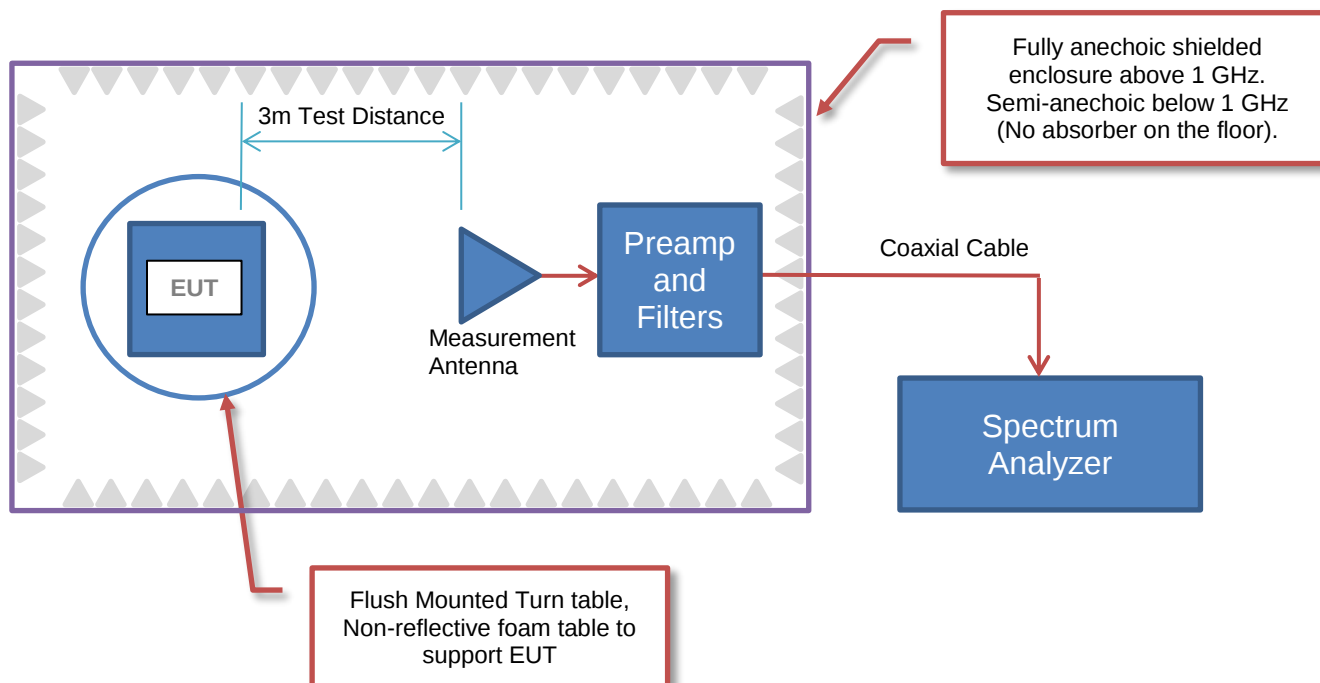
Antenna Port Conducted Measurements



Near Field Test Fixture Measurements



Spurious Radiated Emissions





PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Onity Inc., A Division of UTCFS
Address:	4001 Fairview Industrial Drive
City, State, Zip:	Salem, OR 97302-1142
Test Requested By:	Tim Emmerich
Model:	OS700 Safe
First Date of Test:	January 10, 2018
Last Date of Test:	February 26, 2018
Receipt Date of Samples:	January 10, 2018
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

The product is a simple safe used by the hotel industry. It opens and re-locks with an RFID card.

Testing Objective:

To demonstrate compliance to FCC Part 15.225 specifications.

CONFIGURATIONS



Configuration ONIT0047- 2

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Safe	Onity Inc., A Division of UTCFS	OS700 Safe	CNSAGXXXXXXXXXXSF7LRB170620017

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
RFID Tag	Onity Inc., A Division of UTCFS	None	None

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2/23/2018	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
2	2/23/2018	Field Strength of Spurious Emissions Less Than 30 MHz	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
3	2/26/2018	Field Strength of Spurious Emissions Greater Than 30 MHz	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

FIELD STRENGTH OF FUNDAMENTAL



PSA-ESCI 2017.09.18

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

13.56 MHz RFID continuous Tx with tag polling

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

ONIT0047 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency 12 MHz Stop Frequency 15 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Analyzer - Spectrum Analyzer	Agilent	E4443A	AFB	16-May-2017	12 mo
Cable	None	10m Test Distance Cable	EVL	17-Apr-2017	12 mo
Antenna - Loop	EMCO	6502	AOA	6-Jul-2016	24 mo

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified.

The fundamental carrier of the EUT was maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A calibrated active loop antenna was used for this test in order to provide sufficient measurement sensitivity. The center of the loop antenna was maintained at 1m above the ground plane during the testing.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector

PK = Peak Detector

AV = RMS Detector

As outlined in 15.209(e), 15.31(f)(2), and RSS-GEN, 6.4, measurements may be performed at a distance closer than what is specified with the limit. The limit at the specified distance is shown on the data sheet. Measurements are made at a closer distance and the data is adjusted using a distance correction factor of 40dB/decade for comparison to the limit.

FIELD STRENGTH OF FUNDAMENTAL



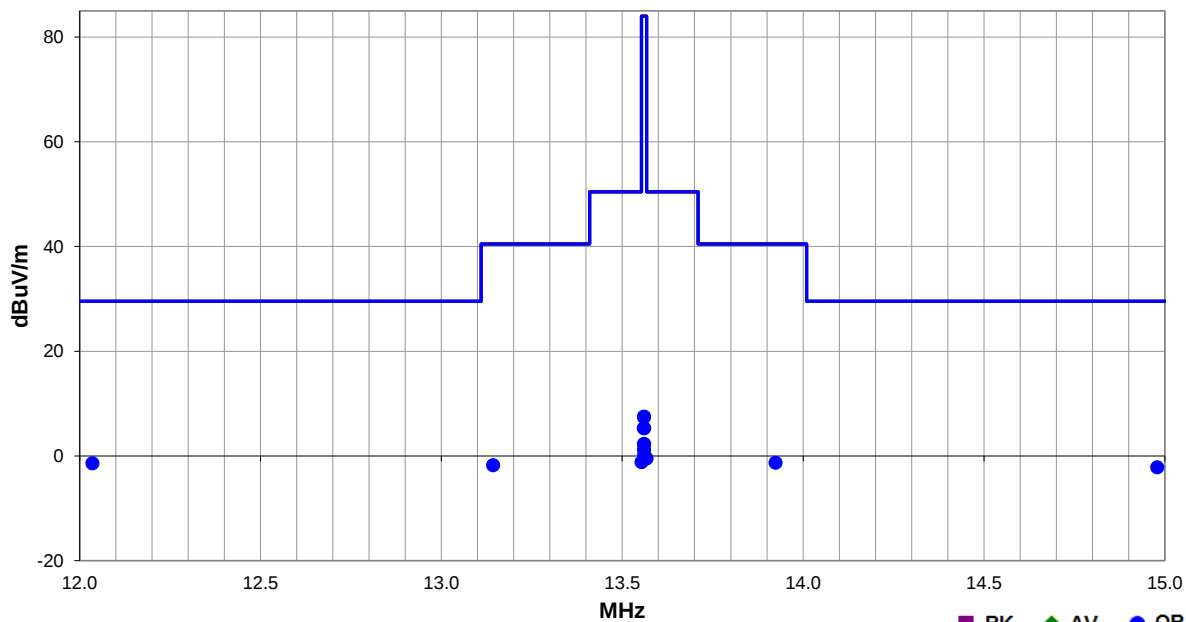
EmiR5 2017.09.18.2

PSA-ESCI 2017.09.18

Work Order:	ONIT0047	Date:	23-Feb-2018	
Project:	None	Temperature:	20.7 °C	
Job Site:	EV11	Humidity:	24.8% RH	
Serial Number:	See configuration	Barometric Pres.:	1036 mbar	
EUT:	OS700 Safe			
Configuration:	2			
Customer:	Onity Inc., A Division of UTCFS			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	13.56 MHz RFID continuous Tx with tag polling			
Deviations:	None			
Comments:	See comments below for EUT orientation			

Test Specifications	Test Method
FCC 15.225:2018	ANSI C63.10:2013

Run #	12	Test Distance (m)	10	Antenna Height(s)	1(m)	Results	Pass
-------	----	-------------------	----	-------------------	------	---------	------



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
12.035	6.7	11.0	1.0	292.0	10.0	0.0	Perp EUT	QP	-19.1	-1.4	29.5	-30.9	EUT Horizontal
14.979	5.8	11.1	1.0	292.0	10.0	0.0	Perp EUT	QP	-19.1	-2.2	29.5	-31.7	EUT Horizontal
13.924	6.7	11.1	1.0	292.0	10.0	0.0	Perp EUT	QP	-19.1	-1.3	40.5	-41.8	EUT Horizontal
13.143	6.2	11.1	1.0	292.0	10.0	0.0	Perp EUT	QP	-19.1	-1.8	40.5	-42.3	EUT Horizontal
13.567	7.6	11.1	1.0	292.0	10.0	0.0	Perp EUT	QP	-19.1	-0.5	50.5	-51.0	EUT Horizontal
13.553	6.8	11.1	1.0	292.0	10.0	0.0	Perp EUT	QP	-19.1	-1.2	50.5	-51.7	EUT Horizontal
13.560	15.5	11.1	1.0	292.0	10.0	0.0	Perp EUT	QP	-19.1	7.5	84.0	-76.5	EUT Horizontal
13.560	15.4	11.1	1.0	251.0	10.0	0.0	Perp EUT	QP	-19.1	7.4	84.0	-76.6	EUT on Side
13.560	13.3	11.1	1.0	258.0	10.0	0.0	Par GND	QP	-19.1	5.3	84.0	-78.7	EUT on Side
13.560	13.3	11.1	1.0	271.0	10.0	0.0	Par GND	QP	-19.1	5.3	84.0	-78.7	EUT Horizontal
13.560	10.3	11.1	1.0	193.0	10.0	0.0	Par EUT	QP	-19.1	2.3	84.0	-81.7	EUT on Side
13.560	10.2	11.1	1.0	213.0	10.0	0.0	Par EUT	QP	-19.1	2.2	84.0	-81.8	EUT Horizontal
13.560	9.2	11.1	1.0	267.0	10.0	0.0	Perp EUT	QP	-19.1	1.2	84.0	-82.8	EUT Vertical
13.561	8.2	11.1	1.0	163.0	10.0	0.0	Par EUT	QP	-19.1	0.2	84.0	-83.8	EUT Vertical
13.561	7.8	11.1	1.0	134.0	10.0	0.0	Par GND	QP	-19.1	-0.2	84.0	-84.2	EUT Vertical

FIELD STRENGTH OF SPURIOUS EMISSIONS LESS THAN 30 MHZ



PSA-ESCI 2017.09.18

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

13.56 MHz RFID continuous Tx with tag polling

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

ONIT0047 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency 9 kHz Stop Frequency 30 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Analyzer - Spectrum Analyzer	Agilent	E4443A	AFB	16-May-2017	12 mo
Cable	None	10m Test Distance Cable	EVL	17-Apr-2017	12 mo
Antenna - Loop	EMCO	6502	AOA	6-Jul-2016	24 mo

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). An active loop antenna was used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector

PK = Peak Detector

AV = RMS Detector

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements at the edges of the allowable band may be presented in an alternative method as provided for in the ANSI C63.10 Marker-Delta method. This method involves performing an in-band fundamental measurement followed by a screen capture of the fundamental and out-of-band emission using reduced measurement instrumentation bandwidths. The amplitude delta measured on this screen capture is applied to the fundamental emission value to show the out-of-band emission level as applied to the limit.

As outlined in 15.209(e), 15.31(f)(2), and RSS-GEN, 6.4, measurements may be performed at a distance closer than what is specified with the limit. The limit at the specified distance is shown on the data sheet. Measurements are made at a closer distance and the data is adjusted using a distance correction factor of 40dB/decade for comparison to the limit.

FIELD STRENGTH OF SPURIOUS EMISSIONS LESS THAN 30 MHz



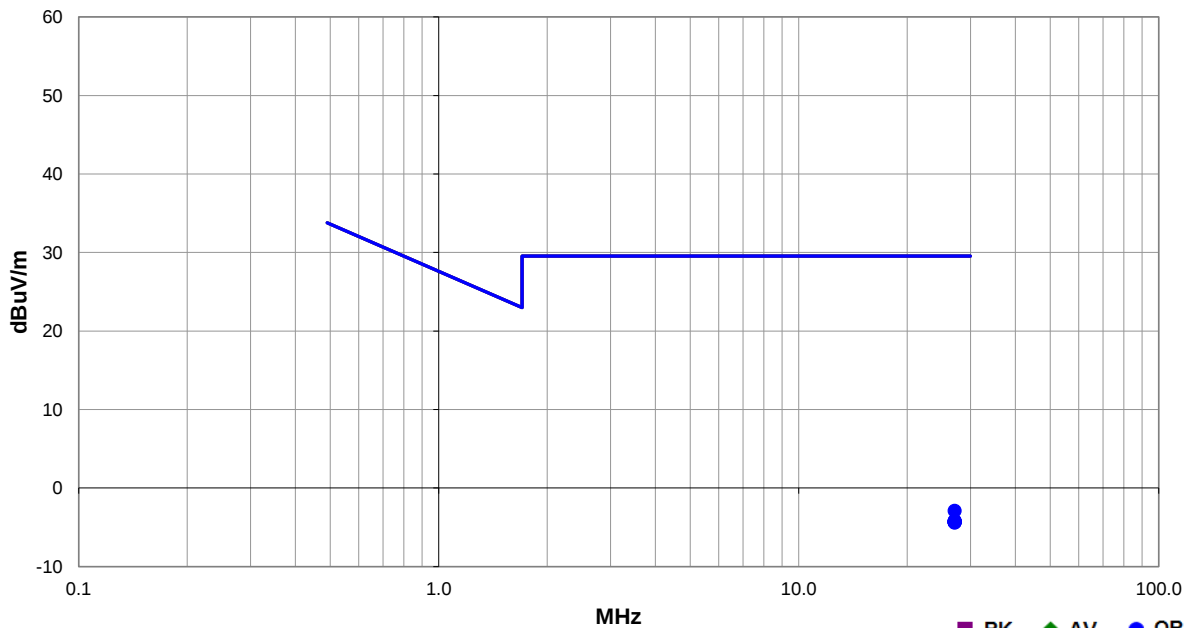
EmiR5 2017.09.18.2

PSA-ESCI 2017.09.18

Work Order:	ONIT0047	Date:	23-Feb-2018	
Project:	None	Temperature:	20.7 °C	
Job Site:	EV11	Humidity:	24.8% RH	
Serial Number:	See configuration	Barometric Pres.:	1036 mbar	
EUT:	OS700 Safe			
Configuration:	2			
Customer:	Onity Inc., A Division of UTCFS			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	13.56 MHz RFID continuous Tx with tag polling			
Deviations:	None			
Comments:	See comments below for EUT orientation			

Test Specifications	Test Method
FCC 15.225:2018.	ANSI C63.10:2013

Run #	12	Test Distance (m)	10	Antenna Height(s)	1(m)	Results	Pass
-------	----	-------------------	----	-------------------	------	---------	------



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
27.122	6.9	9.3	1.0	194.0	10.0	0.0	Perp EUT	QP	-19.1	-2.9	29.5	-32.4	EUT Vertical
27.122	5.6	9.3	1.0	361.0	10.0	0.0	Perp EUT	QP	-19.1	-4.2	29.5	-33.7	EUT on Side
27.120	5.6	9.3	1.0	185.0	10.0	0.0	Par GND	QP	-19.1	-4.2	29.5	-33.7	EUT Vertical
27.120	5.5	9.3	1.0	300.0	10.0	0.0	Par EUT	QP	-19.1	-4.3	29.5	-33.8	EUT Vertical
27.120	5.5	9.3	1.0	-5.0	10.0	0.0	Par EUT	QP	-19.1	-4.3	29.5	-33.8	EUT Horizontal
27.122	5.5	9.3	1.0	165.0	10.0	0.0	Par EUT	QP	-19.1	-4.3	29.5	-33.8	EUT on Side
27.120	5.5	9.3	1.0	116.0	10.0	0.0	Perp EUT	QP	-19.1	-4.3	29.5	-33.8	EUT Horizontal
27.119	5.5	9.3	1.0	119.0	10.0	0.0	Par GND	QP	-19.1	-4.3	29.5	-33.8	EUT Horizontal
27.119	5.4	9.3	1.0	332.0	10.0	0.0	Par GND	QP	-19.1	-4.4	29.5	-33.9	EUT on Side

FIELD STRENGTH OF SPURIOUS EMISSIONS GREATER THAN 30 MHZ



PSA-ESCI 2017.09.18

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

13.56 MHz RFID continuous Tx with tag polling

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

ONIT0047 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency | 30 MHz | Stop Frequency | 1000 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Analyzer - Spectrum Analyzer	Agilent	E4443A	AFB	16-May-2017	12 mo
Filter - Low Pass	Micro-Tronics	LPM50004	HGR	17-Apr-2017	12 mo
Cable	None	3m Test Distance Cable	EVM	17-Apr-2017	12 mo
Amplifier - Pre-Amplifier	Miteq	AM-1551	AOY	17-Apr-2017	12 mo
Antenna - Biconilog	EMCO	3141	AXG	17-Jul-2017	24 mo

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting while set at the operating channel.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector
PK = Peak Detector
AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out of band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements at the edges of the allowable band may be presented in an alternative method as provided for in the ANSI C63.10 Marker-Delta method. This method involves performing an in-band fundamental measurement followed by a screen capture of the fundamental and out-of-band emission using reduced measurement instrumentation bandwidths. The amplitude delta measured on this screen capture is applied to the fundamental emission value to show the out-of-band emission level as applied to the limit.

FIELD STRENGTH OF SPURIOUS EMISSIONS GREATER THAN 30 MHz



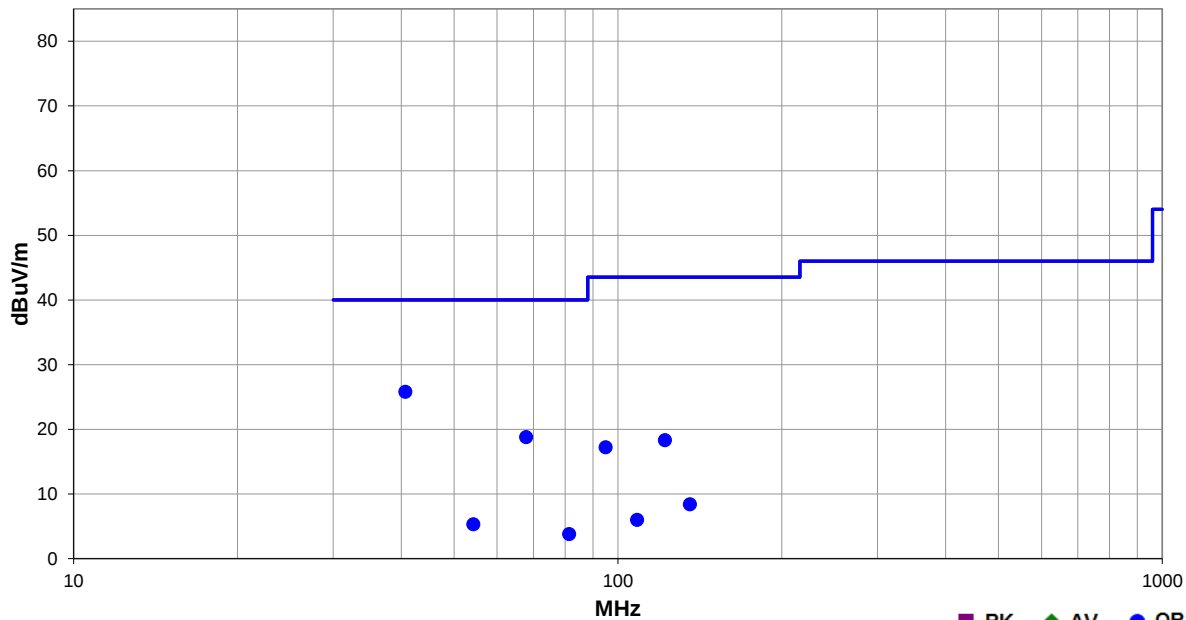
EmiR5 2017.09.18.2

PSA-ESCI 2017.09.18

Work Order:	ONIT0047	Date:	26-Feb-2018	
Project:	None	Temperature:	21.7 °C	
Job Site:	EV11	Humidity:	31.9% RH	
Serial Number:	See configuration	Barometric Pres.:	1024 mbar	
EUT:	OS700 Safe			
Configuration:	2			
Customer:	Onity Inc., A Division of UTCFS			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	13.56 MHz RFID continuous Tx with tag polling			
Deviations:	None			
Comments:	See comments below for EUT orientation			

Test Specifications	Test Method
FCC 15.225:2018	ANSI C63.10:2013

Run #	20	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
-------	----	-------------------	---	-------------------	-----------	---------	------



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
40.681	51.8	-26.0	1.0	159.0	3.0	0.0	Vert	QP	0.0	25.8	40.0	-14.2	EUT on Side
67.802	49.5	-30.7	1.0	340.0	3.0	0.0	Vert	QP	0.0	18.8	40.0	-21.2	EUT on Side
122.045	47.8	-29.5	1.0	85.0	3.0	0.0	Vert	QP	0.0	18.3	43.5	-25.2	EUT on Side
94.923	46.2	-29.0	1.0	57.0	3.0	0.0	Vert	QP	0.0	17.2	43.5	-26.3	EUT on Side
54.245	35.0	-29.7	1.2	299.0	3.0	0.0	Vert	QP	0.0	5.3	40.0	-34.7	EUT on Side
135.605	37.5	-29.1	1.0	84.0	3.0	0.0	Vert	QP	0.0	8.4	43.5	-35.1	EUT on Side
81.367	34.4	-30.6	1.0	93.0	3.0	0.0	Vert	QP	0.0	3.8	40.0	-36.2	EUT on Side
108.488	34.7	-28.7	1.0	250.0	3.0	0.0	Vert	QP	0.0	6.0	43.5	-37.5	EUT on Side