

NORTHWEST EMC

Centrica Connected Home Ltd

FCC_Test_MOT001

FCC_Test_DWS#1

Report # ELEM0006



NVLAP Lab Code: 201049-0

CERTIFICATE OF TEST

Last Date of Test: September 22, 2016
Centrica Connected Home Ltd
Models: FCC_Test_MOT001; FCC_Test_DWS#1

Emissions

Standards

Specification	Method
FCC 15.109:2016 Class B	
FCC 15.109(g):2016 Class B	ANSI C63.4:2014

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	

Deviations From Test Standards

None

Approved By:



Jeremiah Darden, 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
00	None		

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 Northwest EMC 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 – Validated by the European Commission as a Notified Body under the R&TTE Directive.

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://www.nwemc.com/accreditations/>

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

EMISSIONS MEASUREMENTS

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.

Measurement Bandwidths

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

Sample Calculations

Radiated Emissions:

Field Strength	=	Measured Level	+	Antenna Factor	+	Cable Factor	-	Amplifier Gain	+	Distance Adjustment Factor	+	External Attenuation
33.5	=	42.6	+	28.6	+	3.1	-	40.8	+	0.0	+	0.0

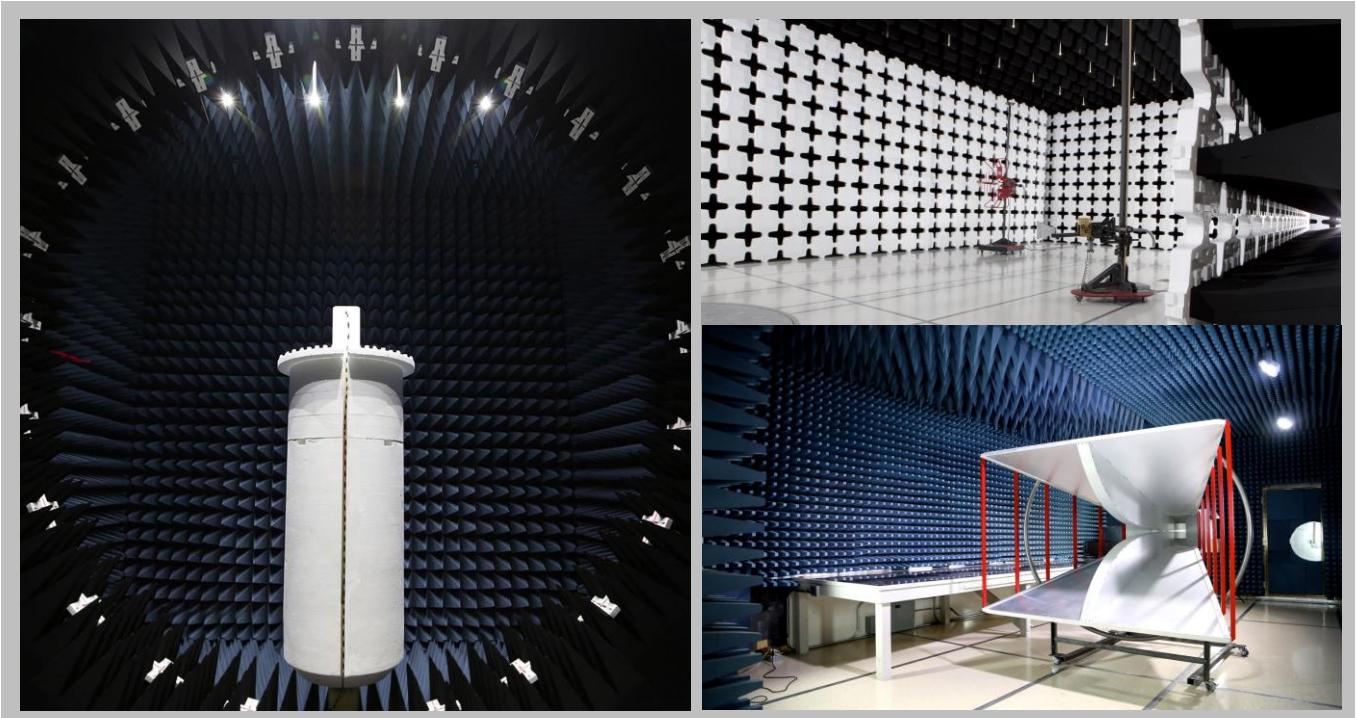
Conducted Emissions:

Adjusted Level	=	Measured Level	+	Transducer Factor	+	Cable Factor	+	External Attenuation
47.1	=	26.7	+	0.3	+	0.1	+	20.0

FACILITIES



California	Minnesota	New York	Oregon	Texas	Washington
Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214	Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	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	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/RRA, MIC, MOC, NCC, OFCA					
US0158	US0175	N/A	US0017	US0191	US0157



PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Centrica Connected Home Ltd
Address:	30 Station Road
City, State, Zip:	Cambridge CB1 2RE United Kingdom
Test Requested By:	Alex Tooheie
Models:	FCC_Test_MOT001; FCC_Test_DWS#1
First Date of Test:	September 22, 2016
Last Date of Test:	September 22, 2016
Receipt Date of Samples:	September 12, 2016
Equipment Design Stage:	Prototype
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

Contact sensor and motion sensor, each containing the following common features: small battery powered device powered by a single CR123A primary battery (user-replaceable), ZigBee radio using Channels 11 to 25 in the 2.4GHz ISM band (2MHz bandwidth, 5MHz channel spacing), internal wire antenna, and maximum Tx power + 5dBm.

Highest frequency generated or used in the device:

Assumes > 108 MHz and < 3.6 GHz

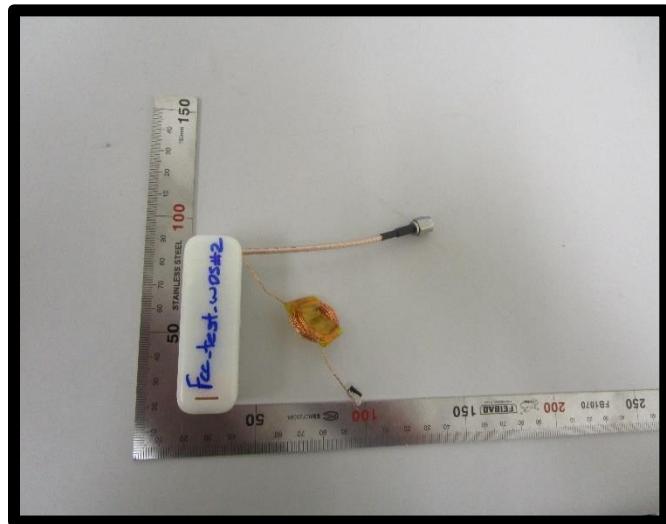
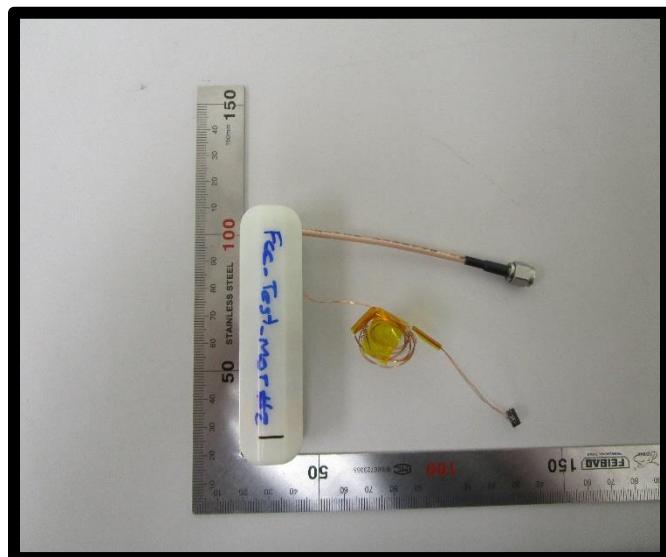
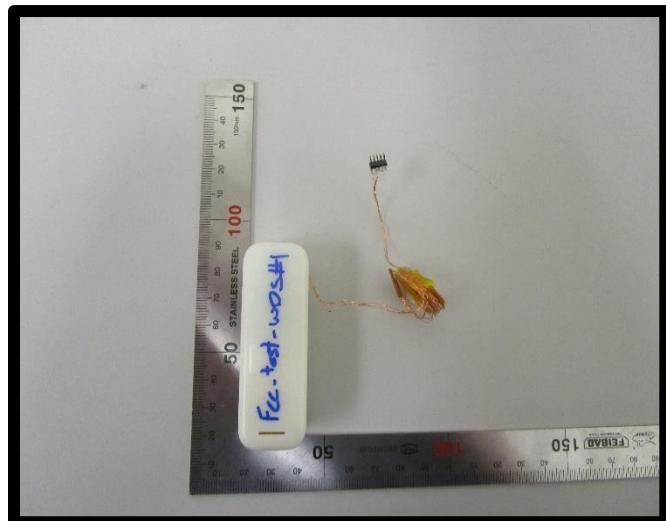
Testing Objective:

Provide the specific EMC testing requested by the customer.

EUT Photo



PRODUCT DESCRIPTION



CONFIGURATIONS

Configuration ELEM0006- 5

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Zigbee Radio	Centrica Connected Home Ltd	FCC_Test_MOT001	None

Configuration ELEM0006- 6

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Zigbee Radio	Centrica Connected Home Ltd	FCC_Test_DWS#1	None

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	9/22/2016	Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	9/22/2016	Radiated Emissions High Frequency	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

RADIATED EMISSIONS

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, a final radiated emissions test was performed. The frequency range investigated (scanned), is also noted in this report. Radiated emissions measurements were made at the EUT azimuth and antenna height such that the maximum radiated emissions level was detected. This required the use of a turntable and an antenna positioner. The preferred method of a continuous azimuth search was utilized for frequency scans of the EUT field strength with both polarities of the measuring antenna. A calibrated, linearly polarized antenna was positioned at the specified distance from the periphery of the EUT. Tests were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna was varied in height above the conducting ground plane to obtain the maximum signal strength. Though specified in the report, the measurement distance was 3 meters or 10 meters (from antenna to boundary of EUT). At any measurement distance, the antenna height was varied from 1 meter to 4 meters. These height scans apply for both horizontal and vertical polarization, except that for vertical polarization the minimum height of the center of the antenna was increased so that the lowest point of the bottom of the antenna cleared the ground surface by at least 25 cm.

The EUT arrangement is configured as equivalent to that occurring in normal use. Tabletop equipment is placed on a 0.8 meter high non-conductive table & for Floor-standing equipment, it is placed on, but insulated from a ground reference plane by the use of its own rollers or stand-off supports. If measurements above 1 GHz were required, the test setup was modified to meet the regulatory requirements for higher frequency measurements. If required, RF absorber was placed on the floor between the measurement antenna and EUT. If required, per the standard, an insulating material was also added to ground plane between the EUT's power and remote I/O cables.

The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.

The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	10/29/2015	10/29/2016
Antenna - Biconilog	ETS Lindgren	3143B	AYF	4/13/2016	4/13/2018
Cable	Northwest EMC	RE 9kHz - 1GHz	TXB	5/31/2016	5/31/2017
Amplifier - Pre-Amplifier	Miteq	AM-1551	PAH	9/12/2016	9/12/2017

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	3.3 dB	-3.3 dB

FREQUENCY RANGE INVESTIGATED

30 MHz TO 1000 MHz

POWER INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

ELEM0006-5
ELEM0006-6

MODES INVESTIGATED

Standby Mode

RADIATED EMISSIONS

EUT:	FCC_Test_MOT001	Work Order:	ELEM0006
Serial Number:	None	Date:	09/22/2016
Customer:	Centrica Connected Home Ltd	Temperature:	23.7°C
Attendees:	None	Relative Humidity:	45%
Customer Project:	None	Bar. Pressure:	1019 mb
Tested By:	Jonathan Kiefer	Job Site:	TX02
Power:	Battery	Configuration:	ELEM0006-5

TEST SPECIFICATIONS

Specification: Equipment Class B	Method:
FCC 15.109(g):2016	ANSI C63.4:2014

TEST PARAMETERS

Run #:	115	Test Distance (m):	10	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

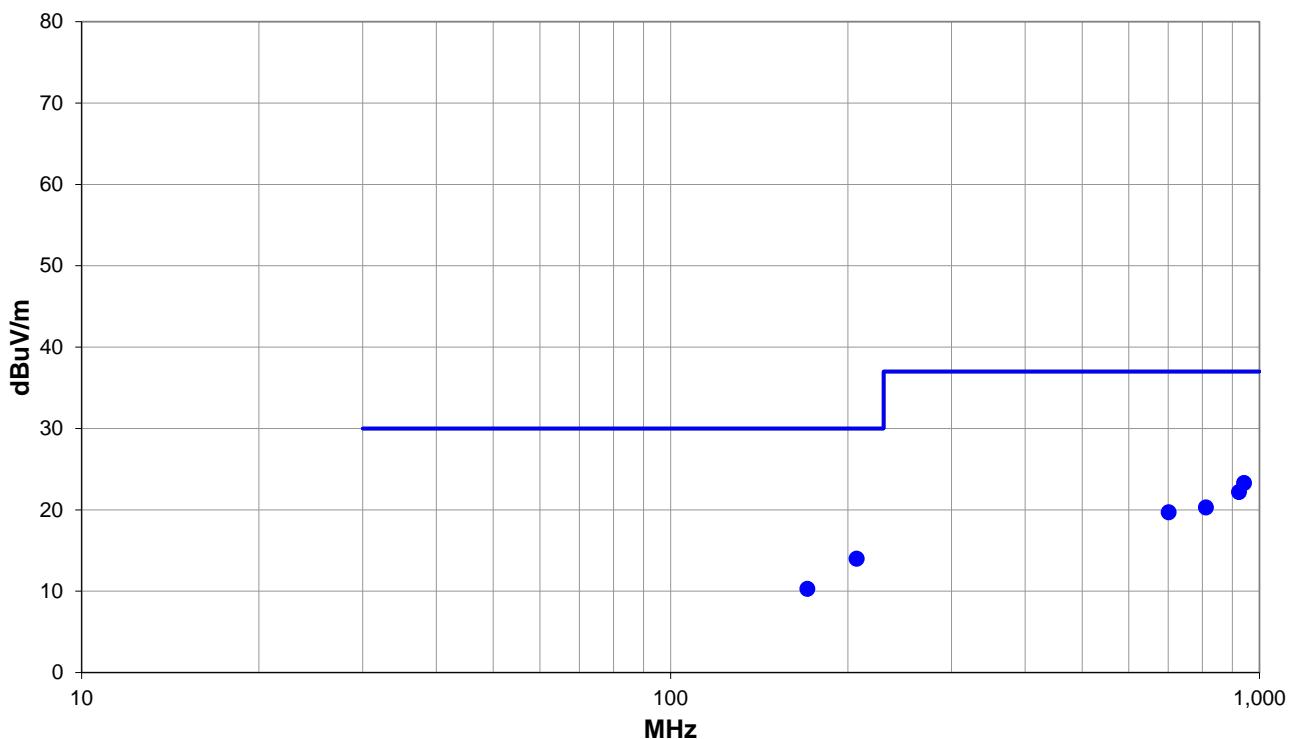
QP data. EUT Horizontal. Unintentional setup.

EUT OPERATING MODES

Standby Mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 115

■ PK ♦ AV ● QP

RADIATED EMISSIONS

RESULTS - Run #115

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Ant. Height (m)	Azimuth (deg.)	Test Dist. (m)	Ext. Atten. (dB)	Polar. Trans. Type	Detect.	Dist. Adjust. (dB)	Adj. (dBuV/m)	Spec. Limit (dBuV/m)	Margin. (dB)
941.562	32.1	-8.8	2.0	262.9	10.0	0.0	Vert	QP	0.0	23.3	37.0	-13.7
923.220	32.2	-10.0	1.5	249.9	10.0	0.0	Vert	QP	0.0	22.2	37.0	-14.8
207.023	41.4	-27.4	3.2	117.0	10.0	0.0	Horz	QP	0.0	14.0	30.0	-16.0
811.188	32.4	-12.1	2.8	75.9	10.0	0.0	Horz	QP	0.0	20.3	37.0	-16.7
701.340	32.7	-13.0	3.7	33.0	10.0	0.0	Horz	QP	0.0	19.7	37.0	-17.3
170.737	38.5	-28.2	3.5	120.0	10.0	0.0	Horz	QP	0.0	10.3	30.0	-19.7

CONCLUSION

Pass



Tested By

RADIATED EMISSIONS

EUT:	FCC_Test_DWS#1	Work Order:	ELEM0006
Serial Number:	None	Date:	09/22/2016
Customer:	Centrica Connected Home Ltd	Temperature:	23.7°C
Attendees:	None	Relative Humidity:	45%
Customer Project:	None	Bar. Pressure:	1019 mb
Tested By:	Jonathan Kiefer	Job Site:	TX02
Power:	Battery	Configuration:	ELEM0006-6

TEST SPECIFICATIONS

Specification: Equipment Class B	Method:
FCC 15.109(g):2016	ANSI C63.4:2014

TEST PARAMETERS

Run #:	116	Test Distance (m):	10	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

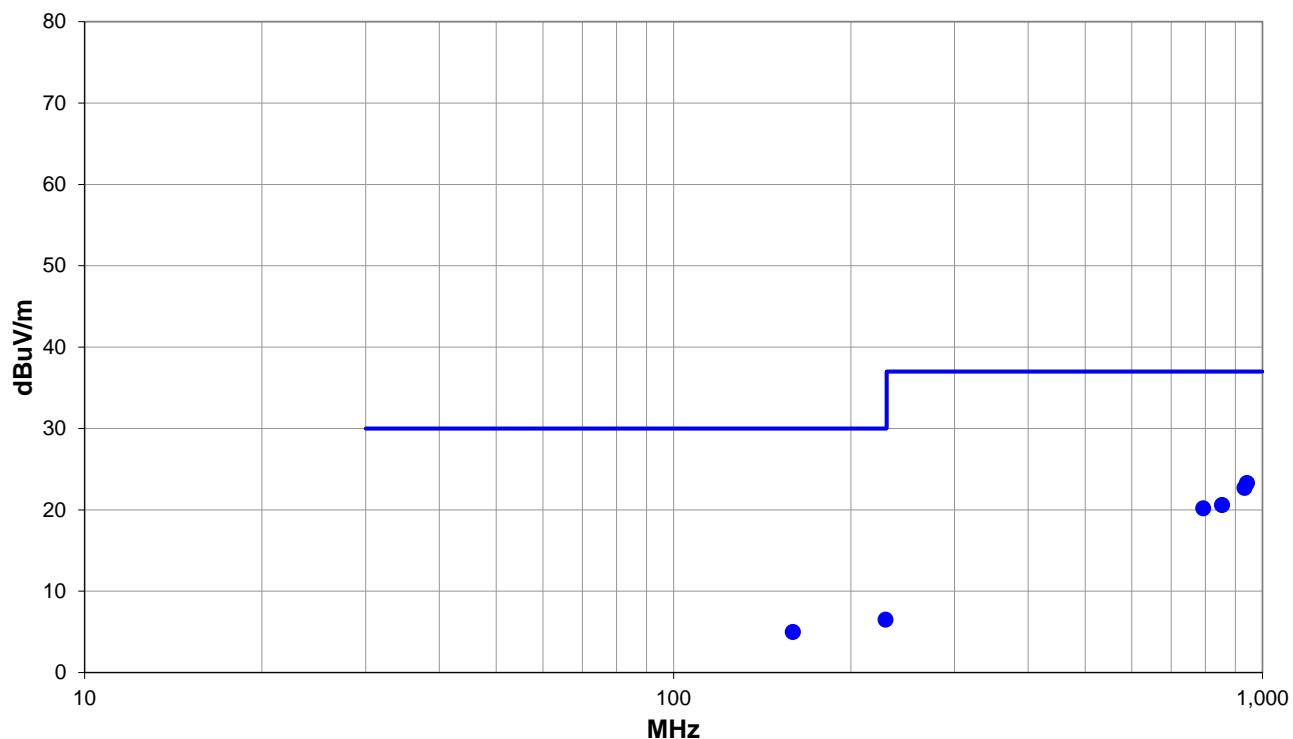
QP data. EUT Horizontal. Unintentional setup.

EUT OPERATING MODES

Standby Mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 116

■ PK ♦ AV ● QP

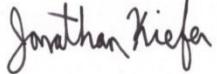
RADIATED EMISSIONS

RESULTS - Run #116

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Ant. Height (m)	Azimuth (deg.)	Test Dist. (m)	Ext. Atten. (dB)	Polar. Trans. Type	Detect.	Dist. Adjust. (dB)	Adj. (dBuV/m)	Spec. Limit (dBuV/m)	Margin. (dB)
941.081	32.1	-8.8	2.8	200.0	10.0	0.0	Horz	QP	0.0	23.3	37.0	-13.7
932.283	32.0	-9.3	2.0	276.0	10.0	0.0	Vert	QP	0.0	22.7	37.0	-14.3
853.717	32.3	-11.7	1.0	58.9	10.0	0.0	Horz	QP	0.0	20.6	37.0	-16.4
793.140	32.4	-12.2	1.0	66.0	10.0	0.0	Horz	QP	0.0	20.2	37.0	-16.8
229.074	32.8	-26.3	2.0	93.0	10.0	0.0	Vert	QP	0.0	6.5	30.0	-23.5
159.433	32.7	-27.7	3.8	138.0	10.0	0.0	Vert	QP	0.0	5.0	30.0	-25.0

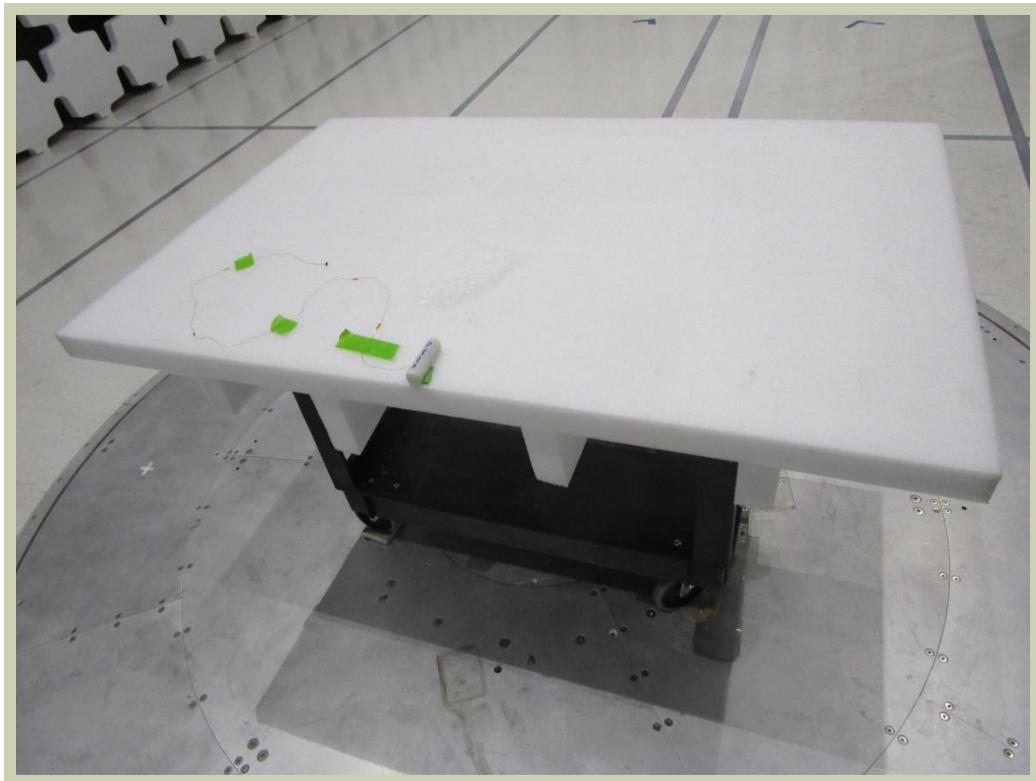
CONCLUSION

Pass

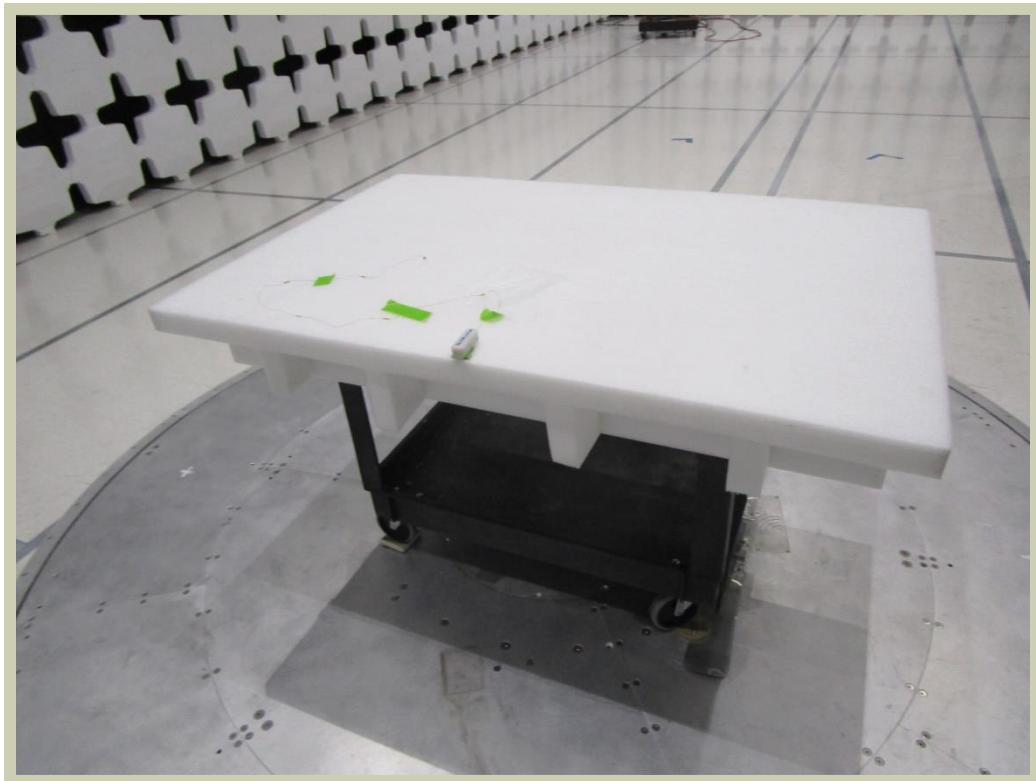


Tested By

RADIATED EMISSIONS



RADIATED EMISSIONS



RADIATED EMISSIONS HIGH FREQUENCY

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, a final radiated emissions test was performed. The frequency range investigated (scanned), is also noted in this report. Radiated emissions measurements were made at the EUT azimuth and antenna height such that the maximum radiated emissions level was detected. This required the use of a turntable and an antenna positioner. The preferred method of a continuous azimuth search was utilized for frequency scans of the EUT field strength with both polarities of the measuring antenna. A calibrated, linearly polarized antenna was positioned at the specified distance from the periphery of the EUT. Tests were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna was varied in height above the conducting ground plane to obtain the maximum signal strength. Though specified in the report, the measurement distance was 3 meters or 10 meters (from antenna to boundary of EUT). At any measurement distance, the antenna height was varied from 1 meter to 4 meters. These height scans apply for both horizontal and vertical polarization, except that for vertical polarization the minimum height of the center of the antenna was increased so that the lowest point of the bottom of the antenna cleared the ground surface by at least 25 cm.

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The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.

The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	10/29/2015	10/29/2016
Antenna - Double Ridge	ETS Lindgren	3115	AJN	9/15/2016	9/15/2018
Cable	Northwest EMC	1-8.2 GHz	TXC	5/31/2016	5/31/2017
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	5/31/2016	5/31/2017
Antenna - Standard Gain	ETS Lindgren	3160-07	AJF	NCR	NCR
Cable	Northwest EMC	8-18GHz	TXD	5/31/2016	5/31/2017
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	10/22/2015	10/22/2016
Antenna - Standard Gain	ETS Lindgren	3160-08	AJG	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	10/22/2015	10/22/2016

MEASUREMENT UNCERTAINTY

Description			
Expanded k=2	4.9 dB		-4.9 dB

FREQUENCY RANGE INVESTIGATED

1 GHz TO 18 GHz

POWER INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

ELEM0006-5

ELEM0006-6

RADIATED EMISSIONS HIGH FREQUENCY



MODES INVESTIGATED

Standby Mode

RADIATED EMISSIONS HIGH FREQUENCY

EUT:	FCC_Test_DWS#1	Work Order:	ELEM0006
Serial Number:	None	Date:	09/22/2016
Customer:	Centrica Connected Home Ltd	Temperature:	23.7°C
Attendees:	None	Relative Humidity:	45%
Customer Project:	None	Bar. Pressure:	1019 mb
Tested By:	Jonathan Kiefer	Job Site:	TX02
Power:	Battery	Configuration:	ELEM0006-6

TEST SPECIFICATIONS

Specification: Equipment Class B	Method:
FCC 15.109:2016	ANSI C63.4:2014

TEST PARAMETERS

Run #:	117	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

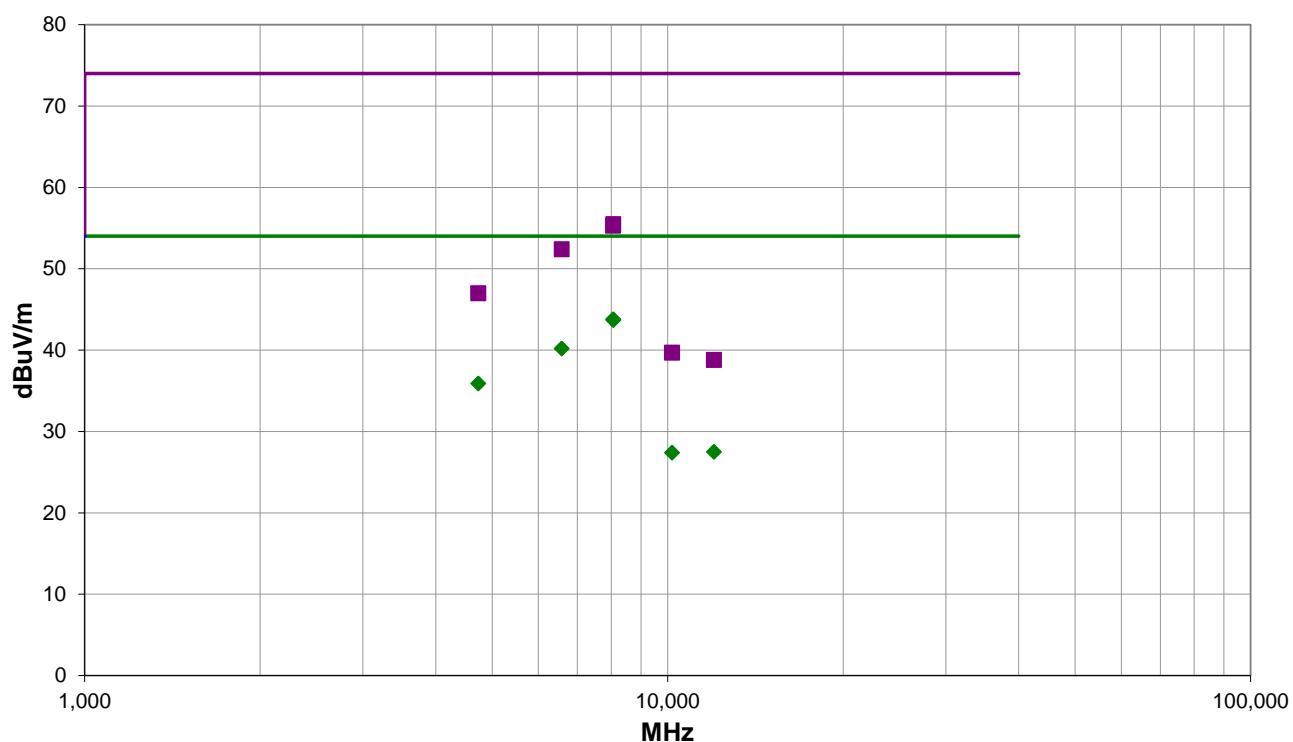
PK and AVG(RMS) data. EUT Horizontal. Unintentional setup.

EUT OPERATING MODES

Standby Mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 117

■ PK ♦ AV ● QP

RADIATED EMISSIONS HIGH FREQUENCY

RESULTS - Run #117

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Ant. Height (m)	Azimuth (deg.)	Test Dist. (m)	Ext. Atten. (dB)	Polar. Trans. Type	Detect.	Dist. Adjust. (dB)	Adj. (dBuV/m)	Spec. Limit (dBuV/m)	Margin. (dB)
8063.050	28.3	15.5	1.2	123.0	3.0	0.0	Vert	AV	0.0	43.8	54.0	-10.2
8066.783	28.2	15.5	1.2	190.9	3.0	0.0	Horz	AV	0.0	43.7	54.0	-10.3
6579.392	28.0	12.2	1.2	69.9	3.0	0.0	Horz	AV	0.0	40.2	54.0	-13.8
4732.483	30.0	5.9	1.5	183.0	3.0	0.0	Horz	AV	0.0	35.9	54.0	-18.1
8065.567	40.0	15.5	1.2	190.9	3.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5
8058.800	39.7	15.6	1.2	123.0	3.0	0.0	Vert	PK	0.0	55.3	74.0	-18.7
6578.683	40.2	12.2	1.2	69.9	3.0	0.0	Horz	PK	0.0	52.4	74.0	-21.6
12005.380	29.6	-2.1	1.2	262.9	3.0	0.0	Vert	AV	0.0	27.5	54.0	-26.5
10173.330	30.4	-3.0	1.2	81.9	3.0	0.0	Vert	AV	0.0	27.4	54.0	-26.6
4732.400	41.1	5.9	1.5	183.0	3.0	0.0	Horz	PK	0.0	47.0	74.0	-27.0
10170.630	42.7	-3.0	1.2	81.9	3.0	0.0	Vert	PK	0.0	39.7	74.0	-34.3
12003.460	40.9	-2.1	1.2	262.9	3.0	0.0	Vert	PK	0.0	38.8	74.0	-35.2

CONCLUSION

Pass



Tested By

RADIATED EMISSIONS HIGH FREQUENCY

EUT:	FCC_Test_MOT001	Work Order:	ELEM0006
Serial Number:	None	Date:	09/22/2016
Customer:	Centrica Connected Home Ltd	Temperature:	23.7°C
Attendees:	None	Relative Humidity:	45%
Customer Project:	None	Bar. Pressure:	1019 mb
Tested By:	Jonathan Kiefer	Job Site:	TX02
Power:	Battery	Configuration:	ELEM0006-5

TEST SPECIFICATIONS

Specification: Equipment Class B	Method:
FCC 15.109:2016	ANSI C63.4:2014

TEST PARAMETERS

Run #:	121	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

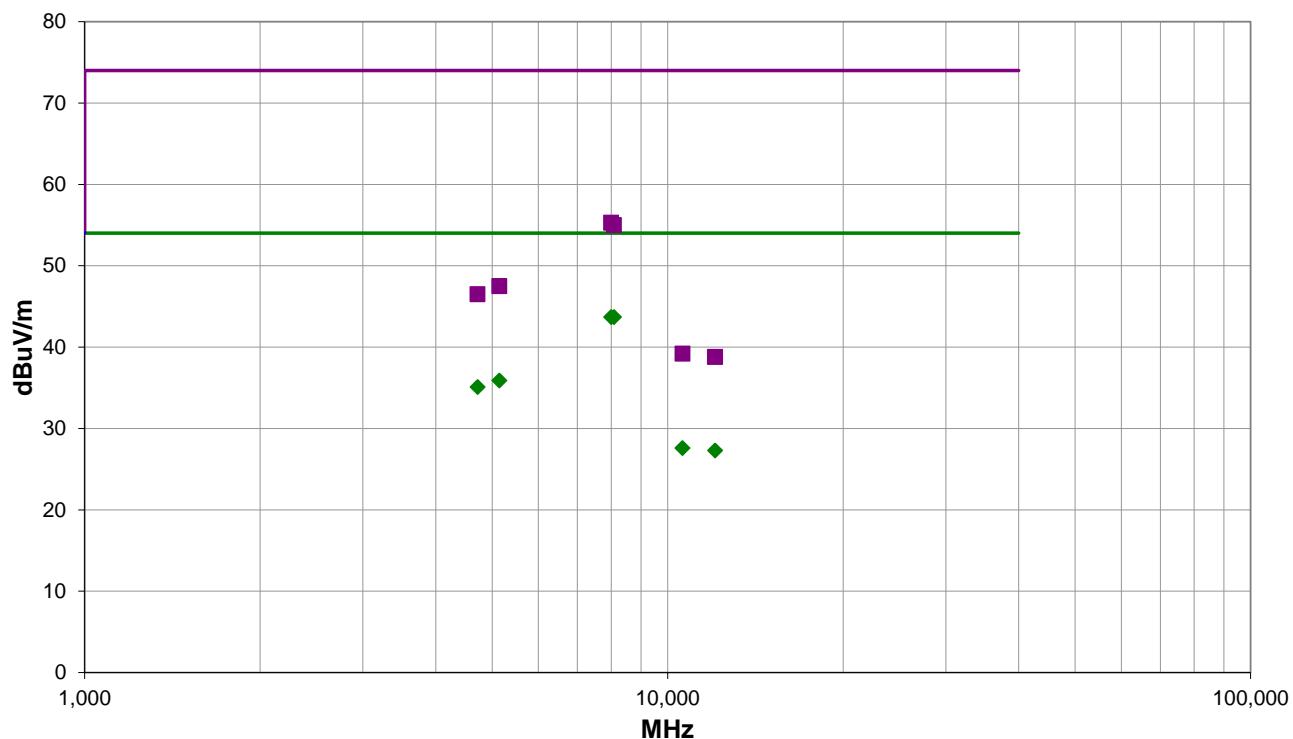
PK and AVG(RMS) data. EUT Horizontal. Unintentional setup.

EUT OPERATING MODES

Standby Mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 121

■ PK ♦ AV ● QP

RADIATED EMISSIONS HIGH FREQUENCY

RESULTS - Run #121

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Ant. Height (m)	Azimuth (deg.)	Test Dist. (m)	Ext. Atten. (dB)	Polar. Trans. Type	Detec.	Dist. Adjust. (dB)	Adj. (dBuV/m)	Spec. Limit (dBuV/m)	Margin. (dB)
8087.233	28.2	15.5	3.8	231.9	3.0	0.0	Horz	AV	0.0	43.7	54.0	-10.3
7999.308	27.8	15.9	1.2	207.0	3.0	0.0	Vert	AV	0.0	43.7	54.0	-10.3
5142.933	28.9	7.0	3.0	309.9	3.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1
7996.317	39.4	15.9	1.2	207.0	3.0	0.0	Vert	PK	0.0	55.3	74.0	-18.7
4720.333	29.3	5.8	1.2	182.0	3.0	0.0	Horz	AV	0.0	35.1	54.0	-18.9
8087.183	39.5	15.5	3.8	231.9	3.0	0.0	Horz	PK	0.0	55.0	74.0	-19.0
10599.460	30.5	-2.9	4.0	324.0	3.0	0.0	Vert	AV	0.0	27.6	54.0	-26.4
5141.583	40.5	7.0	3.0	309.9	3.0	0.0	Vert	PK	0.0	47.5	74.0	-26.5
12059.530	29.3	-2.0	1.2	300.0	3.0	0.0	Vert	AV	0.0	27.3	54.0	-26.7
4717.425	40.7	5.8	1.2	182.0	3.0	0.0	Horz	PK	0.0	46.5	74.0	-27.5
10602.460	42.0	-2.8	4.0	324.0	3.0	0.0	Vert	PK	0.0	39.2	74.0	-34.8
12056.460	40.8	-2.0	1.2	300.0	3.0	0.0	Vert	PK	0.0	38.8	74.0	-35.2

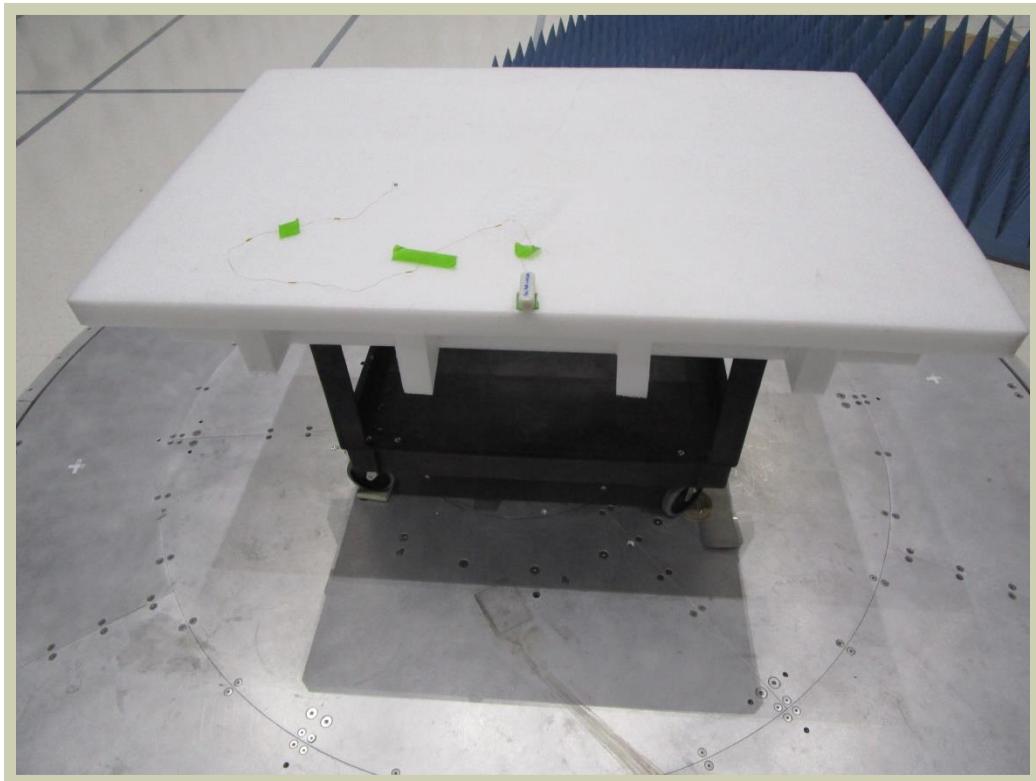
CONCLUSION

Pass



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