

# FCC Test Report

Product Name	Evoko Liso Room Manager /Evoko Liso	
Model No.	ERM2001	
FCC ID	2AH64-ERM2001	

Applicant	Evoko Unlimited AB
Address	Hästholmsvägen 32, 5th floor, 131 30 Nacka, SWEDEN

Date of Receipt	Apr. 26, 2016
Issued Date	May 12, 2016
Report No.	1650010R-RFUSP17V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Product Name	me Evoko Liso Room Manager /Evoko Liso	
Applicant	Evoko Unlimited AB	
Address	Hästholmsvägen 32, 5th floor, 131 30 Nacka, SWEDEN	
Manufacturer	Ubiqconn Technology, Inc.	
Model No.	ERM2001	
FCC ID.	2AH64-ERM2001	
EUT Rated Voltage	AC 100-240V, 50-60Hz	
EUT Test Voltage	AC 120V/60Hz	
Trade Name	Evoko	
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2015	
	ANSI C63.4: 2014, ANSI C63.10: 2013	
Test Result	Complied	

Documented By	:	Gente Chang	
		(Senior Adm. Specialist / Leven Huang )	
Tested By	:	Nick Chen	
		(Engineer / Nick Chen)	
Approved By	:	400	

( Director / Vincent Lin )



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## 1. GENERAL INFORMATION

## 1.1. EUT Description

Product Name	Evoko Liso Room Manager /Evoko Liso
Trade Name	Evoko
Model No.	ERM2001
FCC ID	2AH64-ERM2001
Frequency Range	13.56MHz
Modulation	ASK
Antenna Type	Loop Antenna
Power Adapter	MFR: Elementech, M/N: A124-11202050
	Input: AC 100-240V~50/60Hz, 0.6A
	Output: 12V==2A
	Cable Out: Non-Shielded, 1.2m

## Frequency of Each Channel:

Channel Frequency
Channel 1: 13.56 MHz

- 1. This device is an Evoko Liso Room Manager /Evoko Liso with a built-in 13.56MHz transceiver.
- 2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.225
- 3. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1: Transmit mode
TOST MIOUC	Wiode 1. Halishiit mode



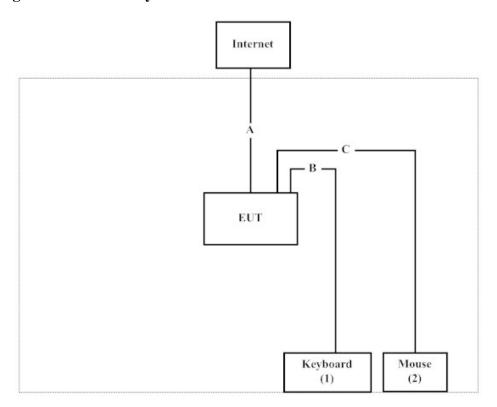
## **1.3.** Tested System Datails

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
(1) Keyboard	Logitech	Y-UR83	SY848UK	N/A
(2) Mouse	acer	M-VrACR1	N/A	N/A

Signal Cable Type		Signal cable Description
A	RJ45 Cable	Shielded, 1.8m
В	Keyboard Cable	Shielded, 1.8m
C	Mouse Cable	Shielded, 1.8m

## 1.4. Configuration of tested System



## 1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute "Terminal" on the EUT.
- (3) Start the continuous transmitter.
- (4) Verify that the EUT works properly.



## 1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual	
Temperature (°C)	15-35	20-35	
Humidity (%RH)	25-75	50-65	
Barometric pressure (mbar)	860-1060	950-1000	

The related certificate for our laboratories about the test site and management system can be downloaded from

QuieTek Corporation's Web Site: <a href="http://www.quietek.com/chinese/about/certificates.aspx?bval=5">http://www.quietek.com/chinese/about/certificates.aspx?bval=5</a>

 $The \ address \ and \ introduction \ of \ Quie Tek \ Corporation's \ laboratories \ can \ be \ founded \ in \ our \ Web \ site:$ 

http://www.quietek.com/

Site Description: File on

Federal Communications Commission

FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046

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FCC Accreditation Number: TW1014



## 2. Conducted Emission

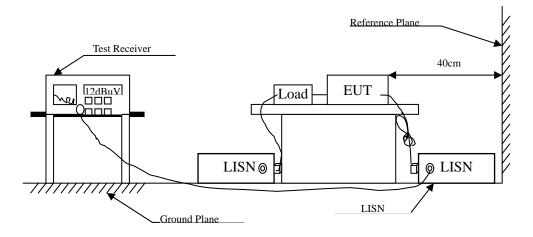
## 2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2016	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2016	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2016	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2016	
	No.1 Shielded Room				

#### Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked by "X" are used to measure the final test results.

## 2.2. Test Setup





#### 2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit						
Frequency	Limits					
MHz	QP	AV				
0.15 - 0.50	66-56 <sub>(±)</sub>	56-46 <sub>(it)</sub>				
0.50-5.0	56	46				
5.0 - 30	60	50				

#### 2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

#### 2.5. Uncertainty

± 2.26 dB



## 2.6. Test Result of Conducted Emission

Product : Evoko Liso Room Manager /Evoko Liso

Test Item : Conducted Emission Test

Power Line : Line 1

Test Mode : Mode 1: Transmit mode

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 1					_
Quasi-Peak					
0.155	9.783	17.440	27.223	-38.663	65.886
0.266	9.780	3.750	13.530	-49.127	62.657
0.546	9.792	13.190	22.982	-33.018	56.000
0.614	9.797	17.180	26.977	-29.023	56.000
6.719	10.041	2.250	12.291	-47.709	60.000
14.425	10.147	17.950	28.097	-31.903	60.000
Average					
0.155	9.783	13.000	22.783	-33.103	55.886
0.266	9.780	0.240	10.020	-42.637	52.657
0.546	9.792	9.720	19.512	-26.488	46.000
0.614	9.797	11.580	21.377	-24.623	46.000
6.719	10.041	-1.610	8.431	-41.569	50.000
14.425	10.147	13.080	23.227	-26.773	50.000

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " "means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor



Product : Evoko Liso Room Manager /Evoko Liso

Test Item : Conducted Emission Test

Power Line : Line 2

Test Mode : Mode 1: Transmit mode

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 2					_
Quasi-Peak					
0.163	9.832	15.890	25.722	-39.935	65.657
0.210	9.835	12.350	22.185	-42.129	64.314
0.611	9.867	17.220	27.087	-28.913	56.000
1.109	9.905	1.120	11.025	-44.975	56.000
4.608	10.073	1.330	11.403	-44.597	56.000
13.578	10.255	16.520	26.775	-33.225	60.000
Average					
0.163	9.832	1.480	11.312	-44.345	55.657
0.210	9.835	7.830	17.665	-36.649	54.314
0.611	9.867	10.640	20.507	-25.493	46.000
1.109	9.905	-2.180	7.725	-38.275	46.000
4.608	10.073	-1.830	8.243	-37.757	46.000
13.578	10.255	11.970	22.225	-27.775	50.000

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " "means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor



## 3. Radiated Emission

## 3.1. Test Equipment

The following test equipments are used during the radiated emission test:

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
⊠Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep, 2015
	X	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun, 2015
	X	EMI Test Receiver	R&S	ESCS 30/838251/001	Jun, 2015
	X	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun, 2015
	X	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun, 2015

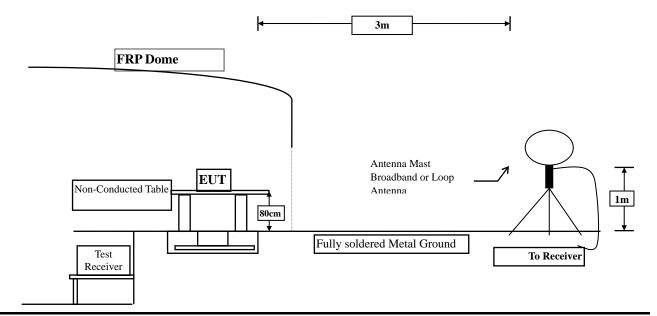
Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
⊠CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2016
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2016
	X	Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2016
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

## 3.2. Test Setup

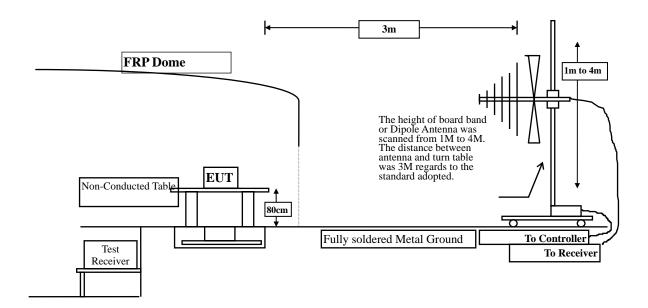
9kHz~30MHz



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#### 30MHz~1GHz



## 3.3. Limits

> Fundamental electric field strength Limit

FCC Part 15 Subpart C Paragraph 15.225 Limits					
Fundamental Fraguency	Field strength of fundamental				
Fundamental Frequency MHz	uV/m	Distance (meter)	dBuV/m	Distance (meter)	
13.553 – 13.567	15848	30	124	3	
13.410 – 13.553 and 13.567 – 13.710	334	30	90.47	3	
13.110 – 13.410 and 13.710 – 14.010	106	30	80.50	3	
Outside of the 13.110 – 14.010	See 15.209 Limits				

Remarks: 1. RF Voltage  $(dBuV) = 20 \log RF$  Voltage (uV)

- 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.



> Spurious electric field strength Limit

FCC Part 15 Subpart C Paragraph 15.209 Limits						
Frequency MHz	uV/m	dBuV/m	Measurement distance (meter)			
0.009-0.490	2400/F(kHz)	See Remark <sup>1</sup>	300			
0.490-1.705	24000/F(kHz)	See Remark <sup>1</sup>	30			
1.705-30	30	29.5	30			
30-88	100	40	3			
88-216	150	43.5	3			
216-960	200	46	3			
Above 960	500	54	3			

Remarks: 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$ 

- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

#### 3.4. Test Procedure

Fundamental electric field strength:

The EUT and its simulators are placed on a turn table which is 1 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum electric field strength.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna which is 1 meter above ground. All X-axis, Y-axis and Z-axis polarization of the antenna are set on measurement.

Spurious electric field strength:

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C6310: 2013 on radiated measurement.

On any frequency the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as



measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 30MHz setting on the field strength meter is 9kHz and above 30MHz is 120kHz.

The frequency range from 9kHz to 10th harmonics is checked.

## 3.5. Uncertainty

- $\pm$  2.6 dB below 30MHz
- ± 3.8 dB above 30MHz



#### 3.6. Test Result of Radiated Emission

Product : Evoko Liso Room Manager /Evoko Liso

Test Item : Fundamental Radiated Emission

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit mode

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
X-axis					
Quasi-Peak					
Horizontal					
13.560	20.410	11.400	31.810	-92.190	124.000
Vertical					
13.560	20.410	20.100	40.510	-83.490	124.000
Y-axis					
Quasi-Peak					
Horizontal					
13.560	20.410	22.500	42.910	-81.090	124.000
Vertical					
13.560	20.410	25.400	45.810	-78.190	124.000
<b>Z</b> -axis					
Quasi-Peak					
Horizontal					
13.560	20.410	22.300	42.710	-81.290	124.000
Vertical					
13.560	20.410	24.700	45.110	-78.890	124.000

- 1. Limit=84dBuV/m + 40\*Log (30(m)/3(m))=124dBuV/m
- 2. All Readings below 1GHz are Quasi-Peak, above are average value.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.



Product : Evoko Liso Room Manager /Evoko Liso

Test Item : General Radiated Emission Data (below 30MHz)

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit mode

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
27.120	19.950	3.900	23.850	-45.690	69.540
Vertical					
27.120	19.950	4.200	24.150	-45.390	69.540

- 1. Limit=29.54dBuV/m + 40\*Log (30(m)/3(m))=69.54dBuV/m
- 2. All Readings below 1GHz are Quasi-Peak, above are average value.
- 3. "means the worst emission level.
- 4. Measurement Level = Reading Level + Correct Factor.



Product : Evoko Liso Room Manager /Evoko Liso

Test Item : General Radiated Emission Data (above 30MHz)

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit mode

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
<b>QP Detector</b>					
34.663	-7.758	44.500	36.742	-3.258	40.000
125.110	-22.439	50.120	27.681	-15.819	43.500
325.353	-16.660	40.124	23.465	-22.535	46.000
515.000	-10.561	42.950	32.389	-13.611	46.000
846.106	-7.067	35.066	27.999	-18.001	46.000
911.394	-6.923	41.647	34.724	-11.276	46.000
Vertical					
QP Detector					
31.554	-13.607	50.400	36.794	-3.206	40.000
106.170	-16.980	43.804	26.824	-16.676	43.500
325.350	-17.815	40.269	22.454	-23.546	46.000
515.000	-12.121	43.698	31.577	-14.423	46.000
665.785	-10.257	38.844	28.587	-17.413	46.000
911.394	-5.830	41.668	35.838	-10.162	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above are average value.
- 2. "means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor



## 4. Band Edge

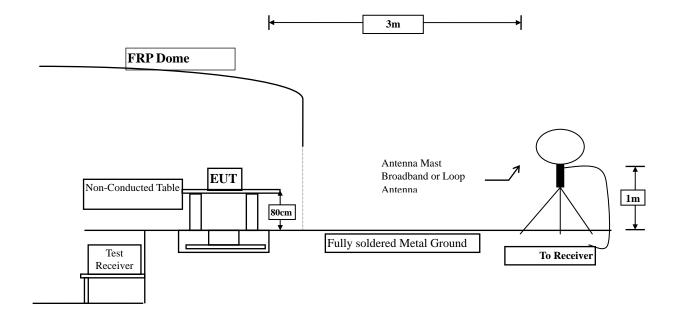
## 4.1. Test Equipment

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
⊠Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep, 2015
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Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

## 4.2. Test Setup





#### 4.3. Limits

In any 9 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 50 dB below that in the 9 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

#### 4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The bandwidth below 30MHz setting on the field strength meter is 9kHz and above 30MHz is 120kHz.

## 4.5. Uncertainty

Radiated is + 2.6 dB



## 4.6. Test Result of Band Edge

Product : Evoko Liso Room Manager /Evoko Liso

Test Item : Band Edge Data
Test Site : No.3 OATS

Test Mode : Mode 1: Transmit mode

#### **RF** Radiated Measurement

## (Horizontal)

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	QP Limit (dBuV/m)	Result
13.110	20.430	7.700	28.130	69.540	Pass
13.360	20.420	15.400	35.820	69.540	Pass
13.410	20.420	13.200	33.620	69.540	Pass
14.010	20.400	8.400	28.800	69.540	Pass

#### Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.

2. "means the worst emission level.

3. Measurement Level = Reading Level + Correct Factor

### (Vertical)

Frequency (MHz)	Correct Factor (dB)	l evel		QP Limit (dBuV/m)	Result
13.110	20.430	16.300	36.730	69.540	Pass
13.360	20.420	18.300	38.720	69.540	Pass
13.410	20.420	14.700	35.120	69.540	Pass
14.010	20.400	12.800	33.200	69.540	Pass

#### Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.

2. "means the worst emission level.

3. Measurement Level = Reading Level + Correct Factor



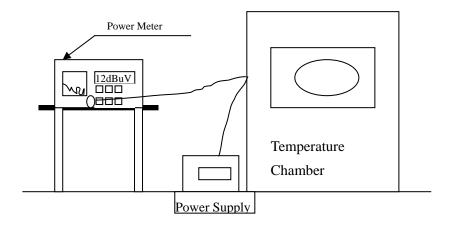
## 5. Frequency Tolerance

## **5.1.** Test Equipment

Equipment		Manufacturer	Model No./Serial No.	Last Cal.	
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015	
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015	
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016	
X	Temperature Chamber	TDE	CHM 150CT	March, 2016	

Note: All equipments are calibrated every one year.

## 5.2. Test Setup



## 5.3. Limits

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency.

#### **5.4.** Test Procedure

The over operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

## 5.5. Uncertainty

± 150 Hz



## 5.6. Test Result of Frequency Stability

Product : Evoko Liso Room Manager /Evoko Liso

Test Item : Frequency Tolerance
Test Site : Temperature Chamber
Test Mode : Mode 1: Transmit mode

Temperature (°C)	Voltage (V)	Observe Time	Declared Frequency	Read Frequency	Tolerance (%)		Limit (%)	
			(MHz)	(MHz)				
20	120	start	13.56	13.56036	0.002655		0.01	%
		2mins	13.56	13.56036	0.002655			
		5mins	13.56	13.56036	0.002655	<u>±</u>		
		10mins	13.56	13.56036	0.002655			
		start	13.56	13.56036	0.002655	±	0.01	
20	138	2mins	13.56	13.56036	0.002655			%
		5mins	13.56	13.56036	0.002655			
		10mins	13.56	13.56036	0.002655			
	102	start	13.56	13.56036	0.002655	- - <u>+</u> -	0.01	%
20		2mins	13.56	13.56036	0.002655			
		5mins	13.56	13.56036	0.002655			
		10mins	13.56	13.56036	0.002655			
	120	start	13.56	13.56024	0.001770	<u>+</u>	0.01	%
50		2mins	13.56	13.56024	0.001770			
		5mins	13.56	13.56024	0.001770			
		10mins	13.56	13.56024	0.001770			
	120	start	13.56	13.56026	0.001917	±	0.01	%
40		2mins	13.56	13.56026	0.001917			
		5mins	13.56	13.56026	0.001917			
		10mins	13.56	13.56026	0.001917			
30	120	start	13.56	13.56028	0.002065	<u> </u>	0.01	%
		2mins	13.56	13.56028	0.002065			
		5mins	13.56	13.56028	0.002065			70
		10mins	13.56	13.56028	0.002065			



10	120	start	13.56	13.55999	-0.000074	±	0.01	
		2mins	13.56	13.55999	-0.000074			
		5mins	13.56	13.55999	-0.000074			%
		10mins	13.56	13.55999	-0.000074			
0	120	start	13.56	13.55987	-0.000959	±	0.01	
		2mins	13.56	13.55987	-0.000959			0/
		5mins	13.56	13.55987	-0.000959			%
		10mins	13.56	13.55987	-0.000959			
-10	120	start	13.56	13.55993	-0.000516	- - ±	0.01	0/
		2mins	13.56	13.55993	-0.000516			
		5mins	13.56	13.55993	-0.000516			%
		10mins	13.56	13.55993	-0.000516			
-20	120	start	13.56	13.55989	-0.000811	±	0.01	0/
		2mins	13.56	13.55989	-0.000811			
		5mins	13.56	13.55989	-0.000811			%
		10mins	13.56	13.55989	-0.000811			



## 6. EMI Reduction Method During Compliance Testing

No modification was made during testing.

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Attachment 1: EUT Test Photographs



## Attachment 2: EUT Detailed Photographs