

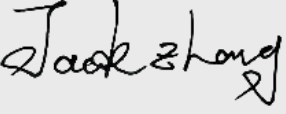




Test report No:  
22B0536R-RF-US-P06V01

## TEST REPORT

### FCC Rules&Requations 47 CFR Chapter I - Part 15C

Product Name	Level lock
Trademark	
Model and /or type reference	B1,B2,B3,B4
FCC ID	2ATIO2
Applicant's name / address	Level Home Inc. 935 Main St Redwood City, CA 94063, United States of America
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart C Section 15.225
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Tim Cao/Project Engineer 
Approved by (name / position & signature)	Jack Zhang/ Supervisor 
Date of issue	2022-11-28
Report Version	V1.1
Report template No	Template_FCC 15.225-RF-V1.0

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## COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

**IMPORTANT:** No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

## GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Nov. 14, 2022
Date (start test)	Nov. 15, 2022
Date (finish test)	Nov. 21, 2022

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

## ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

## POSSIBLE TEST CASE VERDICTS

---

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

## ABBREVIATIONS

---

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
$U_N$	: Nominal voltage
$T_x$	: Transmitter
$R_x$	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

## DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
22B0536R-RF-US-P06V01	V1.0	Initial issue of report.	2022-11-24
22B0536R-RF-US-P06V01	V1.1	Modify test data.	2022-11-28

## REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.225.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
  - Chapter 1.1 General Description of the Item(s);
  - Chapter 1.2 Antenna Informaion;
  - Chapter 1.3 Channel List.

## USED EQUIPMENT

Emission in non-restricted frequency bands / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2021.12.15	2022.12.14
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2022.03.20	2023.03.19
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2022.07.14	2023.07.14
Temperature/Humidity Meter	RTS	RTS-8S	RF-08	2022.07.07	2023.07.06
Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

Radiated Emission(Below 1GHz) / AC-3					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100176	2022.07.10	2023.07.09
Loop Antenna	R&S	HFH2-Z2	833799/003	2022.02.20	2023.02.19
Bilog Antenna	Teseq GmbH	CBL6112D	27613	2022.08.28	2023.08.27
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC3-C	2022.03.30	2023.03.29
Temperature/Humidity Meter	RTS	RTS-8S	AC3-TH	2022.11.23	2023.11.22
Quietek EMI V3(test software)	Quietek	N/A	N/A	N/A	N/A
Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

## UNCERTAINTY


Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%. The Uncertainties is complice with standard required as below.

Test item	Uncertainty
AC Power Line Conducted Emission	$\pm 2.02$ dB
Peak Power Output	$\pm 1.27$ dB
Radiated Emission(30MHz~1GHz)	$\pm 3.80$ dB
RF antenna conducted test	$\pm 1.27$ dB
DTS Bandwidth	$\pm 1$ kHz
Occupied Bandwidth	$\pm 1$ kHz
Power Density	$\pm 1.27$ dB
Frequency Stability	$\pm 100$ Hz



# 1 GENERAL INFORMATION

## 1.1 General Description of the Item(s)

Product Name..... :	Level lock
Model No. .... :	B1,B2,B3,B4
Trademark ..... :	
FCC ID ..... :	2ATIO2
Model difference ..... :	These models have the same RF module and antenna, different models are only for different markets.

Wireless Specification..... :	NFC
Operating frequency range(s)..... :	13.56 MHz
Type of modulation ..... :	ASK
Number of channel..... :	1

Rated power supply .....	Voltage and Frequency	
	<input type="checkbox"/>	AC: 200 – 240 V, 50/60 Hz
	<input type="checkbox"/>	AC: 100 – 240 V, 50/60 Hz
	<input checked="" type="checkbox"/>	DC: 3 V
	<input type="checkbox"/>	Battery: 12-96VDC
Mounting position..... :	<input checked="" type="checkbox"/>	Table top equipment
	<input type="checkbox"/>	Wall/Ceiling mounted equipment
	<input type="checkbox"/>	Floor standing equipment
	<input type="checkbox"/>	Hand-held equipment
	<input type="checkbox"/>	Other: Vehicle-mounted equipment

Note: We only tested the B1 sample, Other equivalent models (just different color / SKU) include B2, B3, B4.

## 1.2. Antenna information

Model No.	N/A		
Antenna manufacturer	N/A		
Antenna Delivery	<input checked="" type="checkbox"/> 1*TX+1*RX	<input type="checkbox"/> 2*TX+2*RX	<input type="checkbox"/> 3*TX+3*RX
Antenna technology	<input checked="" type="checkbox"/> SISO		
	<input type="checkbox"/> MIMO	<input type="checkbox"/> Basic	
		<input type="checkbox"/> CDD	
		<input type="checkbox"/> Sectorized	
		<input type="checkbox"/> Beam-forming	
Antenna Type	<input type="checkbox"/> External	<input type="checkbox"/> Dipole	
		<input type="checkbox"/> Sectorized	
	<input checked="" type="checkbox"/> Internal	<input type="checkbox"/> PIFA	
		<input checked="" type="checkbox"/> FPC	
		<input type="checkbox"/> Ceramic Chip Antenna	
		<input type="checkbox"/> Coil antenna	
		<input type="checkbox"/> Type F antenna	

## 2 DESCRIPTION OF TEST SETUP

### 2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

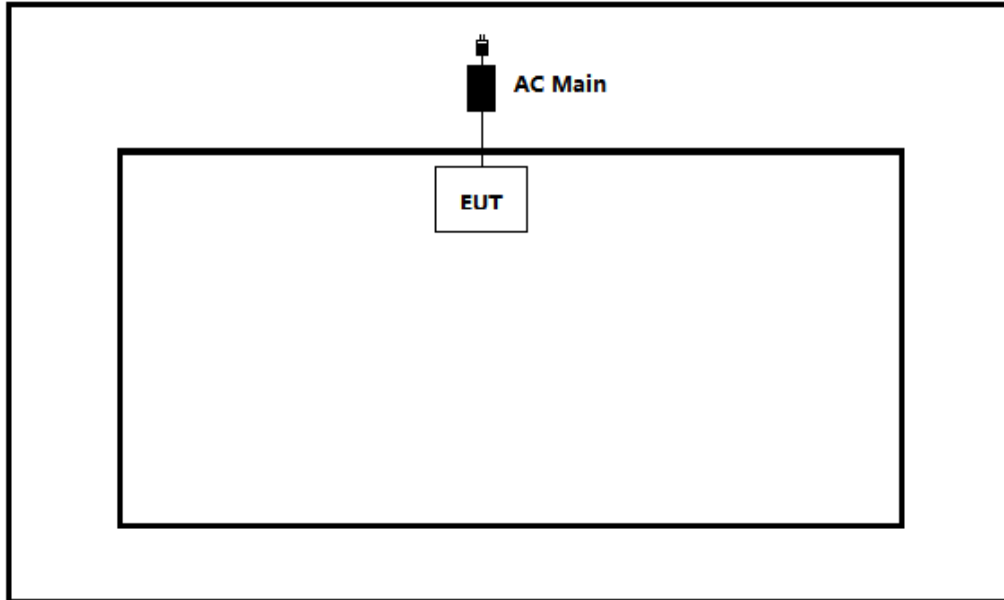
Test Mode	Mode 1: Transmit by NFC
-----------	-------------------------

### 2.2 Support / Auxiliary equipment / unit / Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A

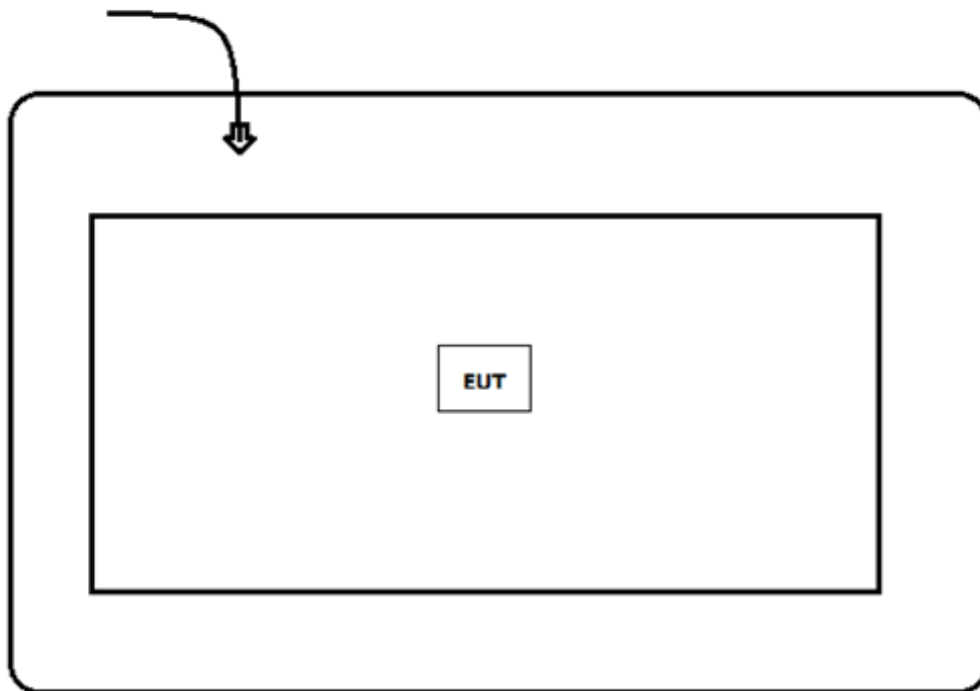
## 2.3 Test Configuration / Block diagram used for tests

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission

Chamber



## 2.4 Testing process

1	Setup the EUT as shown in Section 2.3.
2	Execute the power on the EUT.
3	Verify that the EUT works properly.

### 3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

#### 3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.225	2020	Operation within the band 13.110-14.010 MHz

#### 3.2 Overview of results

##### For FCC

Requirement – Test case	Basic standard(s)	Verdict	Remark
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C Section 15.207	N/A	---
E-field Emission	FCC CFR Title 47 Part 15 Subpart C Section 15.225(a)(b)(c)	PASS	---
Radiated Emissions	FCC CFR Title 47 Part 15 Subpart C Section 15.209 & 15.225(d)	PASS	---
Frequency Stability	FCC CFR Title 47 Part 15 Subpart C Section 15.225(e)	PASS	---
Emission bandwidth	FCC CFR Title 47 Part 15 Subpart C Section 15.215(c)	PASS	---
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C Section 15.203	PASS	---
<u>Supplementary information:</u>			

### 3.3 Test Facility

**USA : FCC Designation Number: CN1199**

## 4 TEST RESULTS

<b>4.1 AC Power Line Conducted Emission</b>	<b>VERDICT: N/A</b>
---	---------------------

### 4.1.1 Limit

<b>Standard</b>	FCC Part 15 Subpart E Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV) <sup>1</sup> ]	Limit: AV [dB(μV) <sup>1</sup> ]
0,15 - 0,50	66 - 56 <sup>2)</sup>	56 - 46 <sup>2)</sup>
0,50 - 5,0	56	46
5,0 - 30	60	50

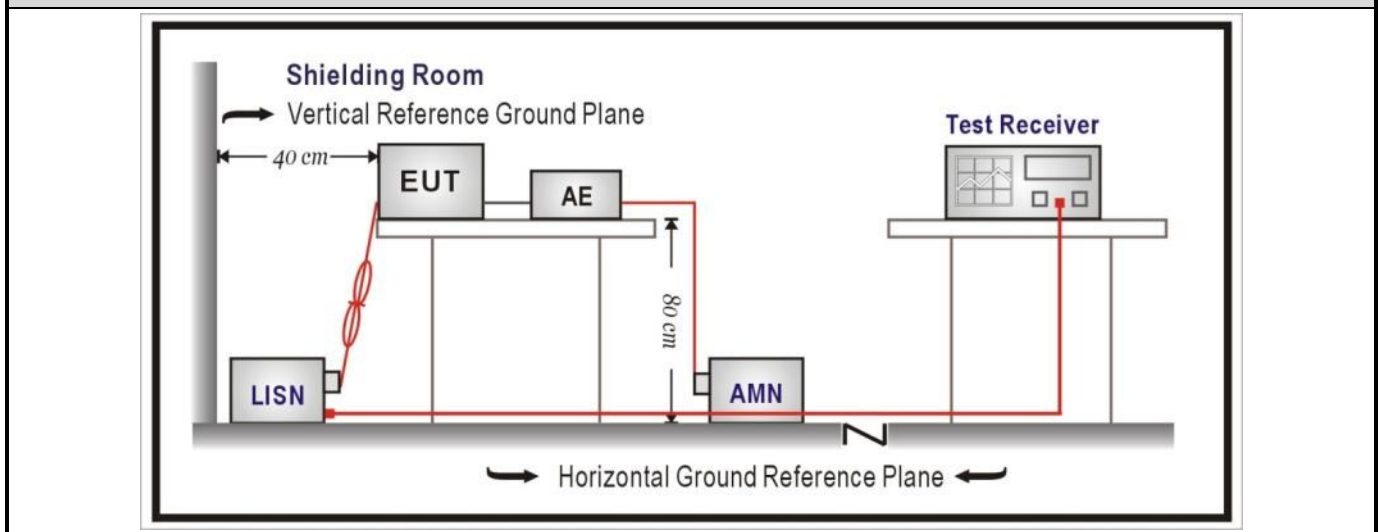
<sup>1)</sup> At the transition frequency, the lower limit applies.

<sup>2)</sup> The limit decreases linearly with the logarithm of the frequency.

**NOTE 1:** The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.

**NOTE 2:** Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

### 4.1.2 Test Setup



### 4.1.3 Test Procedure

	References Rule	Chapter	Item
<input checked="" type="checkbox"/>	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices



#### 4.1.4 Test Data

N/A

<b>4.2 E-field Emission</b>	<b>VERDICT: PASS</b>
-----------------------------	----------------------

**4.2.1 Limit**

<b>Standard</b>	FCC Part 15 Subpart C Paragraph 15.225
-----------------	--

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

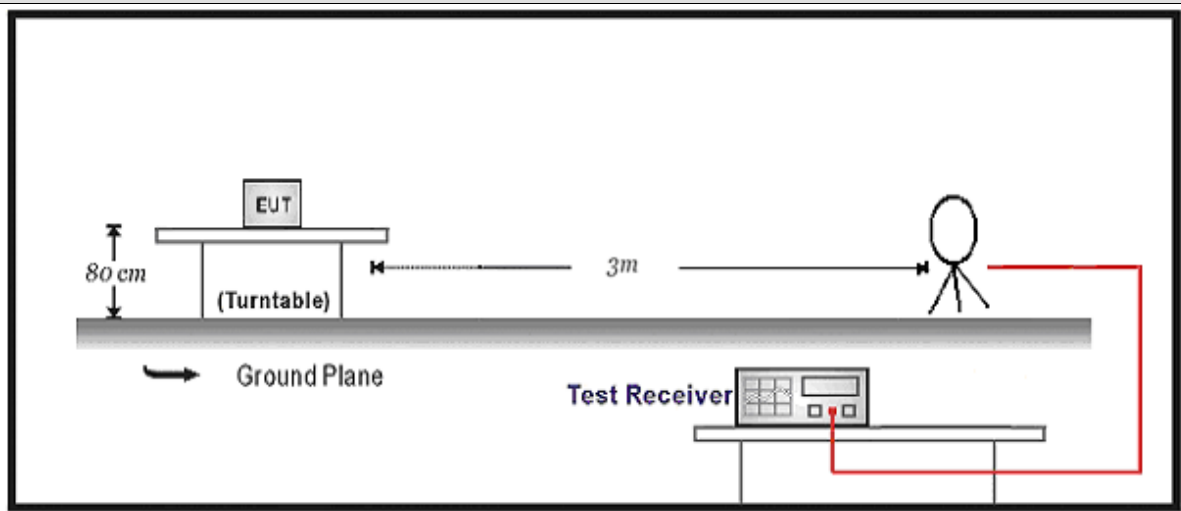
(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

**4.2.2 Test Setup**

Below 30MHz Test Setup:

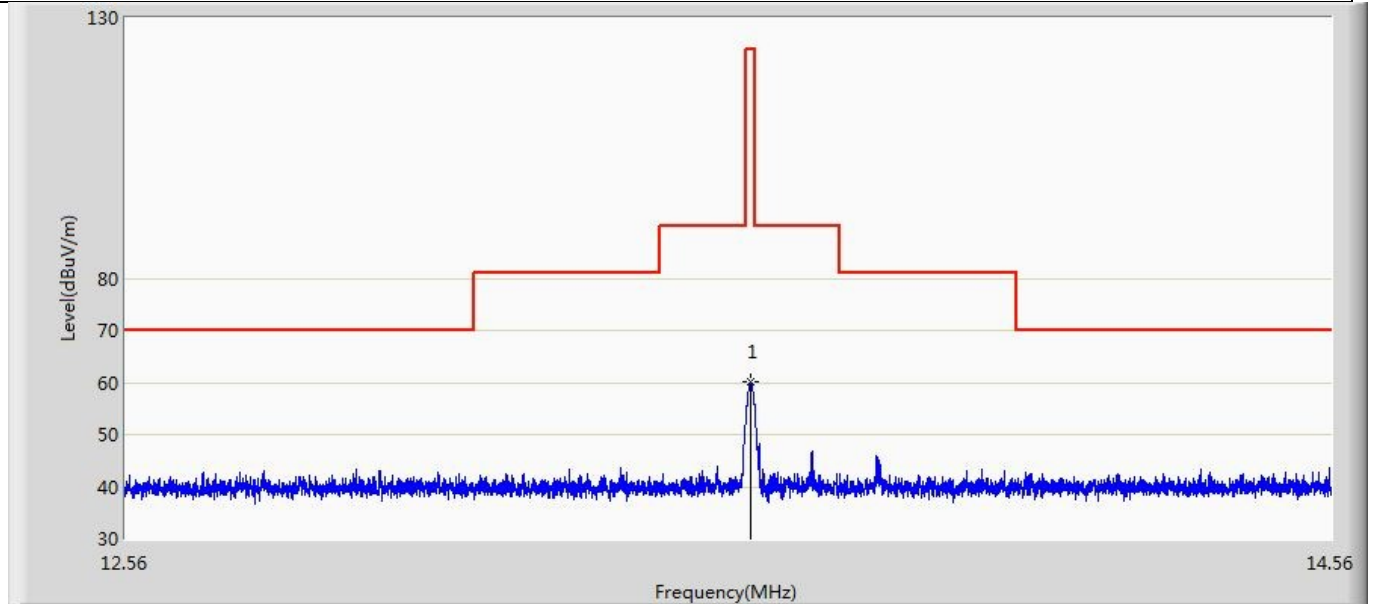


**4.2.3 Test Procedure**

	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
<input type="checkbox"/>	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
<input type="checkbox"/>	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

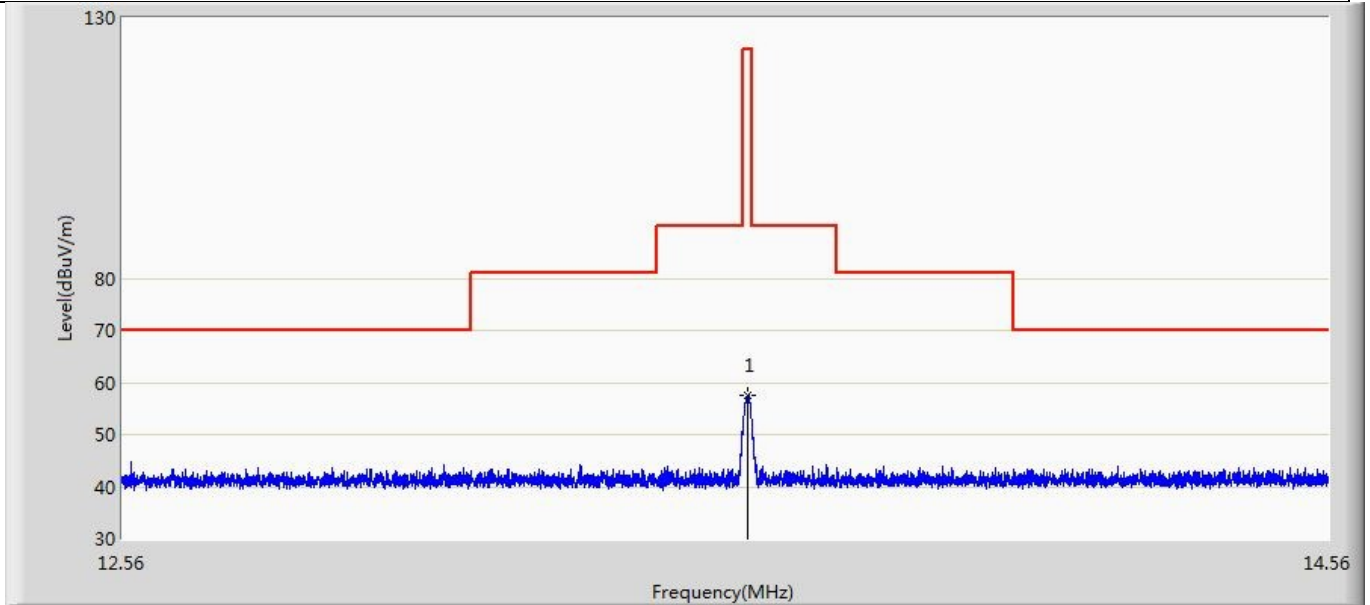
### 4.2.4 Test Data

Profile: 22B0536R	Page No.: 13
Engineer: Yu Liu	
Site: AC3	Time: 2022/11/25 - 22:20
Limit: 13.56 mask	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Vertical
EUT: Level lock	Power: DC 3V
Note: Mode 1 : Transmit by NFC	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	13.561	60.003	39.451	-63.997	124.000	20.552	QP

Profile: 22B0536R	Page No.: 14
Engineer: Yu Liu	
Site: AC3	Time: 2022/11/25 - 22:28
Limit: 13.56 mask	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Horizontal
EUT: Level lock	Power: DC 3V
Note: Mode 1 : Transmit by NFC	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	13.561	57.493	36.441	-66.507	124.000	21.052	QP

<b>4.3 Radiated Emissions</b>	<b>VERDICT: PASS</b>
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<b>4.3.1 Limit</b>	
<b>Standard</b>	FCC Part 15 Subpart C Paragraph 15. 209

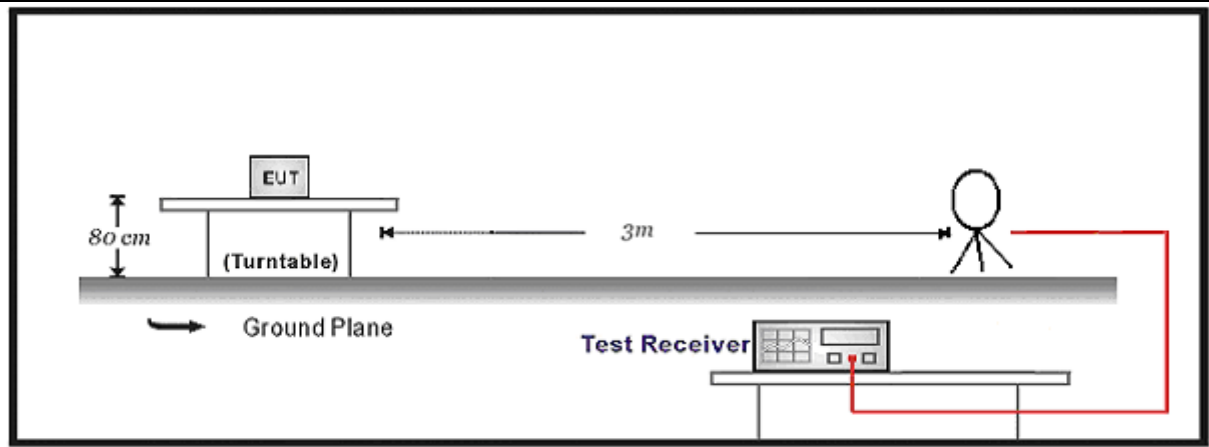
Restricted Band Emissions Limit			
Frequency (MHz)	Field strength ( $\mu$ V/m)	Field strength (dB $\mu$ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 <sub>(Note 1)</sub>
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 <sub>(Note 1)</sub>
1.705 - 30	30	29.5	30 <sub>(Note 1)</sub>
30 - 88	100	40	3 <sub>(Note 2)</sub>
88 - 216	150	43.5	3 <sub>(Note 2)</sub>
216 - 960	200	46	3 <sub>(Note 2)</sub>
Above 960	500	54	3 <sub>(Note 2)</sub>

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

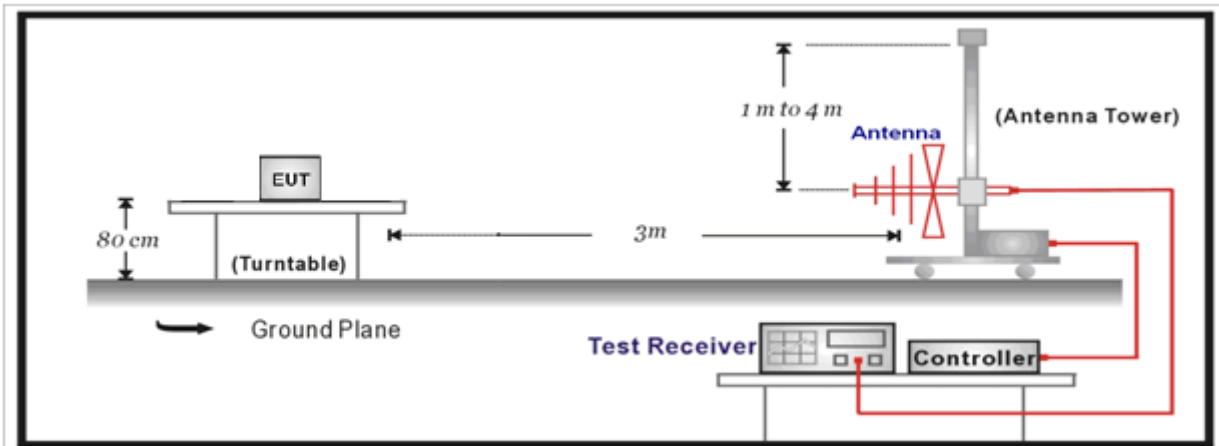
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

### 4.3.2 Test Setup

Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



### 4.3.3 Test Procedure

	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
<input checked="" type="checkbox"/>	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
<input type="checkbox"/>	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

#### 4.3.4 Test Data

Product	:	Level lock
Test Item	:	Transmitter spurious emissions
Test Site	:	AC-3
Test Mode	:	Mode 1: Transmit by 13.56MHz (9k~150k)

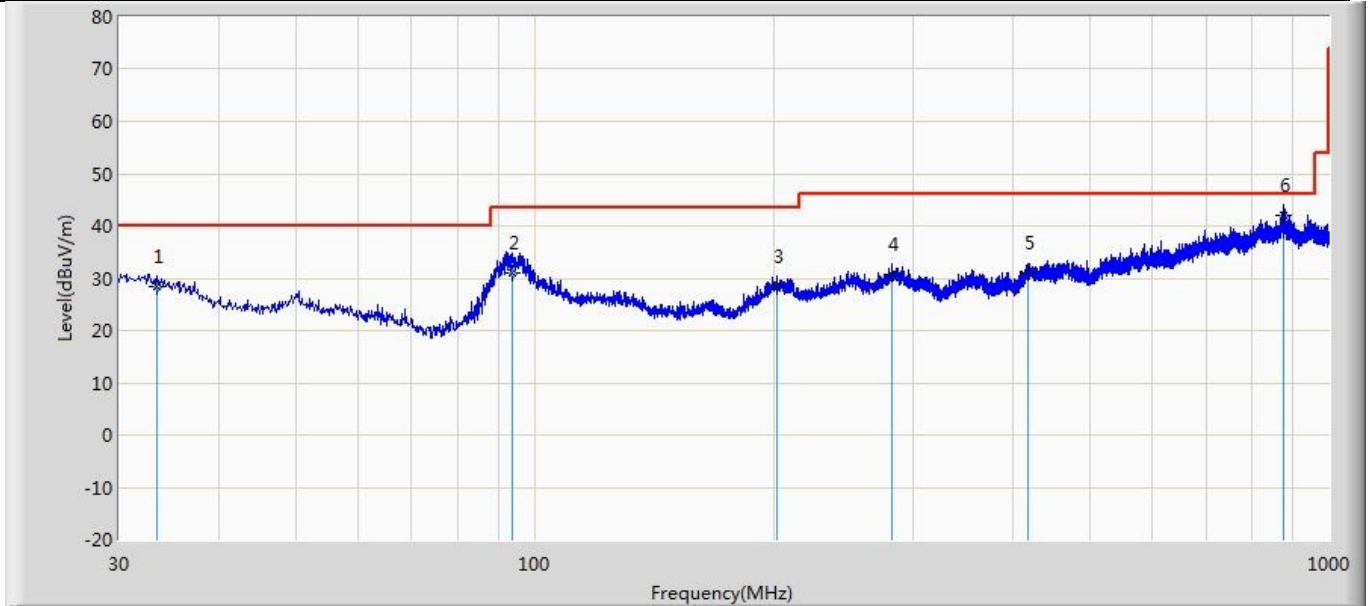
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Over Limit (dB)	Detector
13.56MHz					
0.025	H	52.186	119.631	-67.445	QP
0.025	V	50.368	119.631	-69.263	QP
0.045	H	49.376	114.528	-65.152	QP
0.045	V	45.632	114.528	-68.896	QP
0.07	H	47.824	110.693	-62.869	QP
0.07	V	45.554	110.693	-65.139	QP
0.089	H	45.707	108.608	-62.901	QP
0.089	V	42.982	108.608	-65.626	QP
0.11	H	42.878	106.769	-63.891	QP
0.11	V	40.236	106.769	-66.533	QP
0.137	H	41.621	104.863	-63.242	QP
0.137	V	39.587	104.863	-65.276	QP



Product	:	Level lock
Test Item	:	Transmitter spurious emissions
Test Site		AC-3
Test Mode	:	Mode 1: Transmit by 13.56MHz (150k~30MHz)

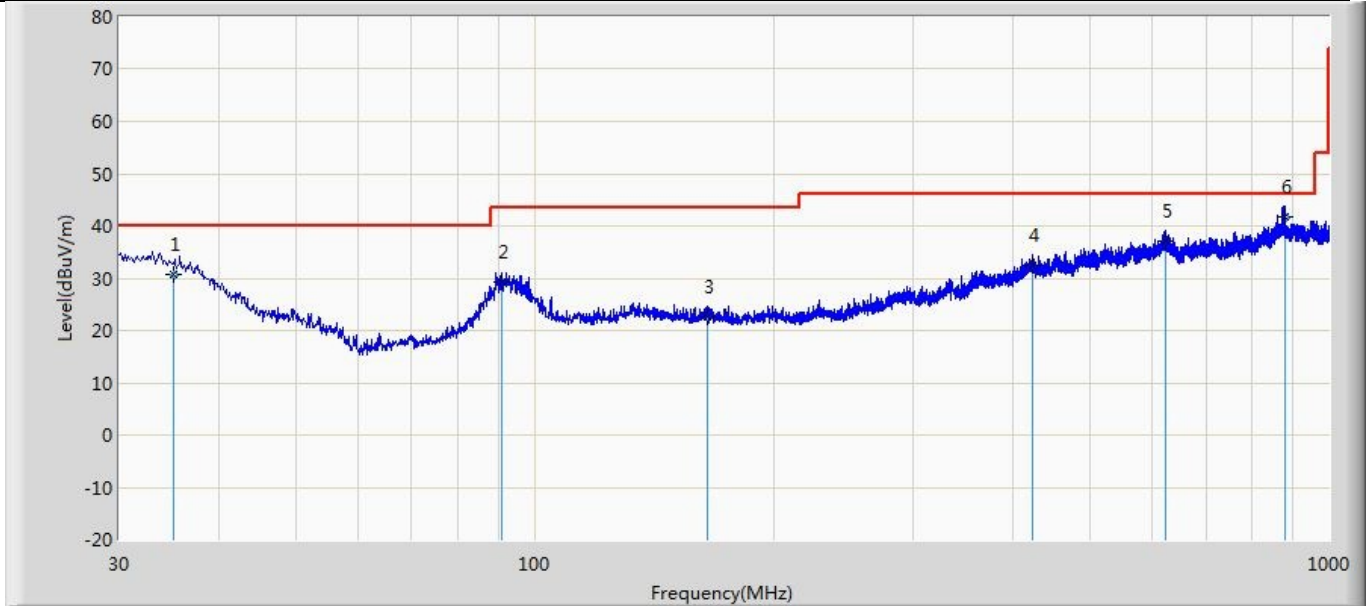
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Over Limit (dB)	Detector
13.56MHz					
0.400	H	46.364	95.562	-49.198	QP
0.400	V	45.698	95.562	-49.864	QP
0.945	H	42.369	68.111	-25.742	QP
0.945	V	40.259	68.111	-27.852	QP
1.131	H	39.324	66.555	-27.231	QP
1.131	V	38.648	66.555	-27.907	QP
2.601	H	37.525	69.500	-31.975	QP
2.601	V	36.984	69.500	-32.516	QP
5.288	H	40.258	69.500	-29.242	QP
5.288	V	41.368	69.500	-28.132	QP

Profile: 22B0536R	Page No.: 48
Engineer: Yu Liu	
Site: AC2	Time: 2022/11/21 - 22:30
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: LEVEL LOCK	Power: DC 3V
Note: Mode 1: Transmit at 13.56MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		33.516	28.378	5.397	-11.622	40.000	22.981	QP
2		93.777	31.052	11.877	-12.448	43.500	19.175	QP
3		202.175	28.523	5.038	-14.977	43.500	23.484	QP
4		281.594	30.811	5.773	-15.189	46.000	25.038	QP
5		417.394	30.884	4.428	-15.116	46.000	26.456	QP
6	*	876.083	42.129	9.019	-3.871	46.000	33.110	QP

Profile: 22B0536R	Page No.: 49
Engineer: Yu Liu	
Site: AC2	Time: 2022/11/21 - 22:36
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: LEVEL LOCK	Power: DC 3V
Note: Mode 1: Transmit at 13.56MHz	

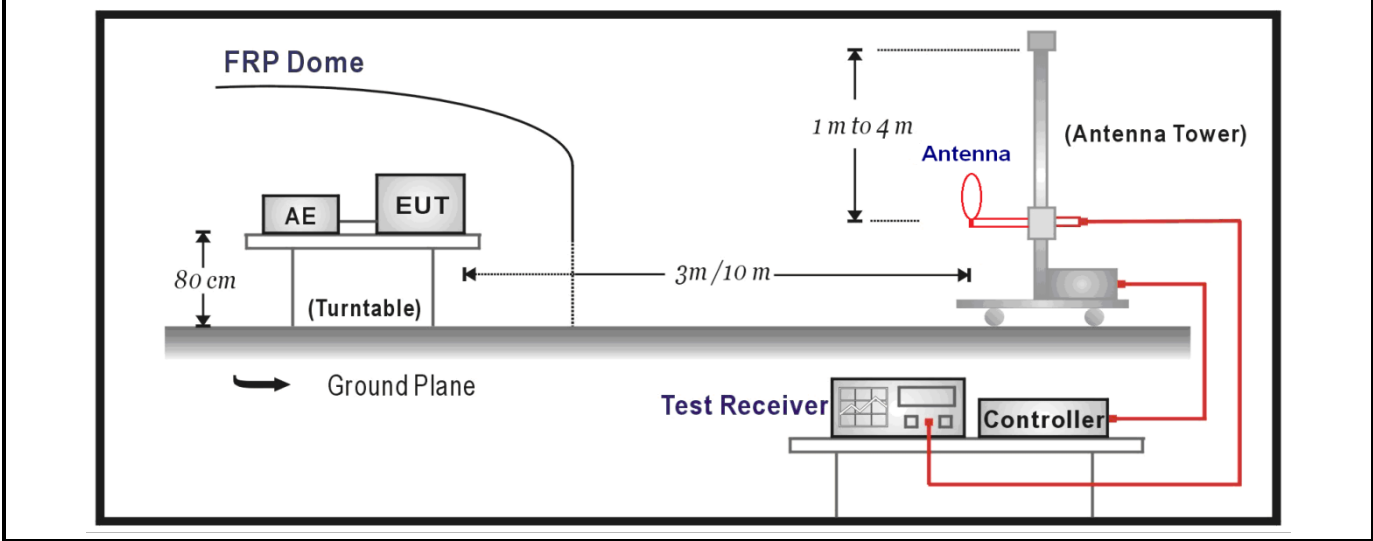


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		35.092	30.802	3.953	-9.198	40.000	26.848	QP
2		91.110	29.132	15.333	-14.368	43.500	13.799	QP
3		165.072	22.720	5.305	-20.780	43.500	17.415	QP
4		424.062	32.576	5.287	-13.424	46.000	27.289	QP
5		624.246	37.040	6.363	-8.960	46.000	30.677	QP
6	*	879.963	41.852	9.323	-4.148	46.000	32.529	QP

<b>4.4 Emission bandwidth</b>	<b>VERDICT: PASS</b>
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<b>4.4.1 Limit</b>	
<b>Standard</b>	FCC Part 15 Subpart C Paragraph 15.215
Within the band.	

<b>4.4.2 Test Setup</b>
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<b>4.4.3 Test Procedure</b>			
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	Reference Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	6.9.2	Occupied bandwidth—relative measurement procedure

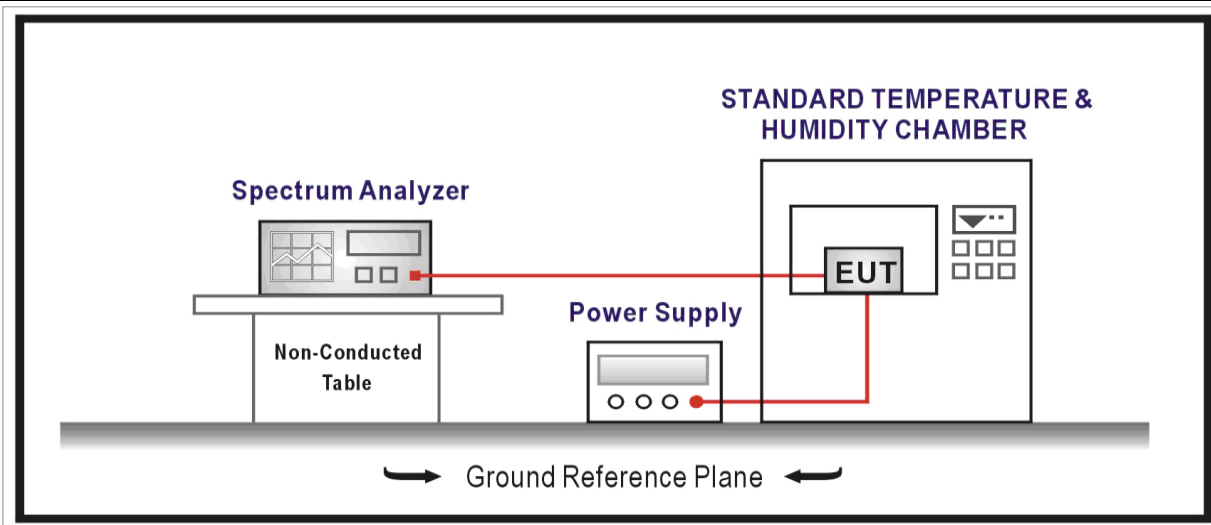
4.4.4 Test Data		
Frequency (MHz)	Frequency Range Limit (MHz)	Result
13.56	13.553 ~ 13.567	Pass

<b>4.5 Frequency Stability</b>	<b>VERDICT: PASS</b>
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**4.5.1 Limit:**

<b>Standard</b>	FCC Part 15 Subpart C Paragraph 15.225(e)
☒	The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the 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.

**4.5.2 Test Setup**



**4.5.3 Test Procedure**

	References Rule	Chapter	Description
☒	ANSI C63.10	6.8	Frequency stability tests
☒	ANSI C63.10	6.8.1	Frequency stability with respect to ambient temperature
☒	ANSI C63.10	6.8.2	Frequency stability when varying supply voltage

#### 4.5.4 Test Data

##### Frequency Stability under Temperature at 0min

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (ppm)
0	13.56	100	±100
10	13.56	100	±100
20	13.56	100	±100
30	13.56	100	±100
35	13.56	100	±100

##### Frequency Stability under Temperature at 2min

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (ppm)
0	13.56	100	±100
10	13.56	100	±100
20	13.56	100	±100
30	13.56	100	±100
35	13.56	100	±100

##### Frequency Stability under Temperature at 5min

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (ppm)
0	13.56	100	±100
10	13.56	100	±100
20	13.56	100	±100
30	13.56	100	±100
35	13.56	100	±100

##### Frequency Stability under Temperature at 10min

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (ppm)
0	13.56	100	±100
10	13.56	100	±100
20	13.56	100	±100
30	13.56	100	±100
35	13.56	100	±100

Frequency Stability under Voltage			
DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (ppm)
2.55	13.56	100	±100
3.00	13.56	100	±100
3.45	13.56	100	±100



<b>4.6 Antenna Requirement</b>	<b>VERDICT: PASS</b>
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**4.6.1 Limit:**

<b>Standard</b>	FCC Part 15 Subpart E Paragraph 15.203
<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p>	

**4.6.2 Antenna Connector Construction:**

<input checked="" type="checkbox"/>	The use of a permanently attached antenna
<input type="checkbox"/>	The antenna use of a unique coupling to the intentional radiator
<input type="checkbox"/>	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

<b>5 TEST SETUP PHOTO AND EUT PHOTO</b>	<b>VERDICT: PASS</b>
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Remark: The test setup photo and EUT Photo please see appendix.

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