

# **FCC Test Report**

Report No. : 1812C50163212503

Shenzhen Kaadas Intelligent Technology Co., **Applicant** 

Ltd.

Floor 11, Building B2, Phase 2, Creative City,

Xiandong Road, Xili Community, Xili Street,

Nanshan District, Shenzhen, Guangdong,

518000, China

**Product Name** : Smart WiFi Lock With Fob

**Report Date** : Apr. 29, 2025

**Shenzhen Anbotek Compliance Laboratory Limited** 

Code:AB-RF-05-b





Address



FCC ID: 2AQY4-027

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# TEST REPORT

Applicant : Shenzhen Kaadas Intelligent Technology Co., Ltd.

Manufacturer : Shenzhen Kaadas Intelligent Technology Co., Ltd.

Product Name : Smart WiFi Lock With Fob

VE027, VE027-L, VE027-H, VE027-K, VE027T, VE027T-K, VE027T-L,

Model No. : VE027T-H, TE027, TE027-L, TE027-H, TE027-K, TE027T, TE027T-L,

TE027T-H, TE027T-K

Trade Mark : TEEHO, VEISE

Rating(s) : Input: 6V-by "AA"\*8 battery or 5V-

Test Standard(s) : 47 CFR Part 15.225
Test Method(s) : ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 15.225 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Apr. 15, 2025

Date of Test Apr. 15, 2025 to Apr. 27, 2025

Prepared By

(Haidi Huang)

Approved & Authorized Signer

(Hugo Chen)

**Shenzhen Anbotek Compliance Laboratory Limited** 





FCC ID: 2AQY4-027

# **Revision History**

Report Version	Description	Issued Date
R00	Original Issue.	Apr. 29, 2025



FCC ID: 2AQY4-027

# 1. General Information

# 1.1. Client Information

Applicant	:	Shenzhen Kaadas Intelligent Technology Co., Ltd.
Address	:	Floor 11, Building B2, Phase 2, Creative City, Xiandong Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong, 518000, China
Manufacturer	:	Shenzhen Kaadas Intelligent Technology Co., Ltd.
Address	:	Floor 11, Building B2, Phase 2, Creative City, Xiandong Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong, 518000, China
Factory	:	Zhuhai Jianshi Intelligent Technology Co., Ltd
Address	:	Area A, Comprehensive Workshop, Three Villages, Fushan Industrial Park, Zhugang Avenue, Qianwu Town, Doumen District, Zhuhai City

# 1.2. Description of Device (EUT)

		·			
Product Name	:	Smart WiFi Lock With Fob			
Model No.	:	VE027, VE027-L, VE027-H, VE027-K, VE027T, VE027T-K, VE027T-L, VE027T-H, TE027, TE027-L, TE027-H, TE027T-K, TE027T-K (Note: All samples are the same except the model number, so we prepare "VE027" for test only.)			
Trade Mark	:	TEEHO, VEISE			
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz, DC 6V battery			
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)			
Adapter	:	N/A			
RF Specification					
Operation Frequency	:	13.56MHz			
Number of Channel	:	1 Channel			
Modulation Type	:	ASK			
Antenna Type	:	Inductive loop coil Antenna			
Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features					

**Remark:** 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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# 1.3. Auxiliary Equipment Used During Test

Title	Title Manufacturer		Serial No.	
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J	

# 1.4. Description of Test Configuration

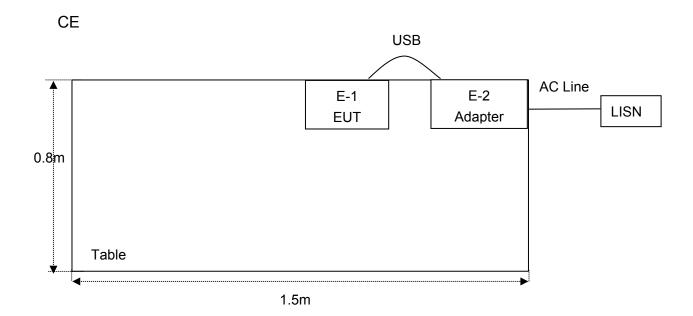
The engineering test program was provided and the EUT was programmed to be in transmitting mode.

Channel	Freq.(MHz)
01	13.56

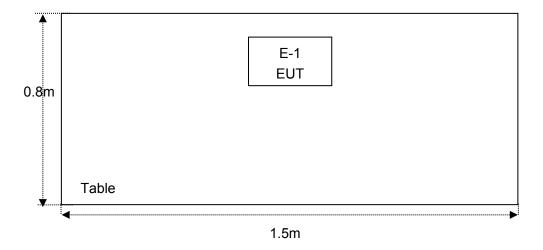


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# 1.5. Description Of Test Setup



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Report No.: 1812C50163212503 FCC ID: 2AQY4-027

# 1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
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1.	Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Sep. 09, 2024	1 Year
2.	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	Jan. 13, 2025	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 13, 2025	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 14, 2025	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Sep. 09, 2024	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	Jan. 13, 2025	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna(9K- 30M)	Schwarzbeck	FMZB1519B	00053	Sep. 12, 2024	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Jan. 22, 2024	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	Jan. 14, 2025	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Sep. 09, 2024	1 Year
14.	MXG RF Vector Signal Generator	RF Vector Agilent N5182A MY47420647 Jan 14 2025		Jan. 14, 2025	1 Year	
15.	Signal Generator	Agilent	E4421B	MY41000743	Feb. 21, 2025	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Sep. 09, 2024	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 14, 2024	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	May. 06, 2024	1 Year

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## 1.7. Measurement Uncertainty

Parameter	Uncertainty				
Conducted emissions (AMN 150kHz~30MHz)	3.2dB				
Occupied Bandwidth	925Hz				
Frequency tolerance	74.60Hz				
Conducted Spurious Emission	1.24dB				
Radiated spurious emissions (Below 30MHz)	3.26dB				
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB				
	1G-6GHz: 4.64dB				
Radiated spurious emissions (above 1GHz)	6G-18GHz: 4.82dB				
	18G-40GHz: 5.62dB				

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

# 1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

## FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

## ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

**Shenzhen Anbotek Compliance Laboratory Limited** 

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#### 1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
- 7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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# 2. Summary of Test Results

Standard Section	Standard Section Test Item				
15.203	Antenna Requirement	PASS			
15.207	Conducted Emission	PASS			
15.205/15.209/15.225	Spurious Emission	PASS			
15.215(c)	20dB Occupied Bandwidth	PASS			
15.225(e)	Frequency Tolerance	PASS			
Remark: "N/A" is an abbreviation for Not Applicable.					

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# 3. Conducted Emission Test

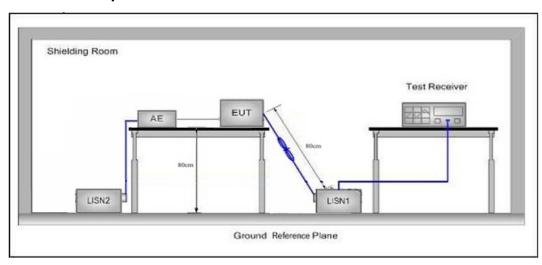
#### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207					
	Fraguanay	Maximum RF Line Voltage (dBuV)				
Test Limit	Frequency	Quasi-peak Level	Average Level			
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *			
	500kHz~5MHz	56	46			
	5MHz~30MHz	60	50			

**Remark:** (1) \*Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

# 3.2. Test Setup



## 3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted **Emission Measurement.** 

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

#### 3.4. Test Data

Please to see the following pages.

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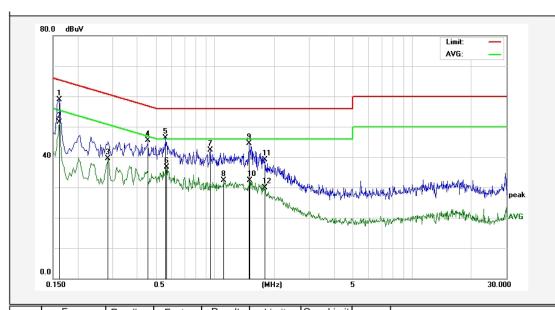
## **Conducted Emission Test Data**

Test Site: 1# Shielded Room

Operating Condition: 13.56MHz

Test Specification: DC 5V from adapter input AC 120V/60Hz

Comment: Live Line Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ RH): 23 $^{\circ}$ C/49 $^{\circ}$ RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1620	41.11	17.83	58.94	65.36	-6.42	QP	
2	0.1620	33.74	17.83	51.57	55.36	-3.79	AVG	
3	0.2860	21.74	17.84	39.58	50.64	-11.06	AVG	
4	0.4540	27.62	17.84	45.46	56.80	-11.34	QP	
5	0.5620	28.49	17.86	46.35	56.00	-9.65	QP	
6	0.5700	18.78	17.86	36.64	46.00	-9.36	AVG	
7	0.9460	24.54	17.86	42.40	56.00	-13.60	QP	
8	1.1100	14.50	17.86	32.36	46.00	-13.64	AVG	
9	1.4819	26.55	17.86	44.41	56.00	-11.59	QP	
10	1.4900	14.42	17.86	32.28	46.00	-13.72	AVG	
11	1.7900	21.28	17.86	39.14	56.00	-16.86	QP	
12	1.7900	12.02	17.86	29.88	46.00	-16.12	AVG	



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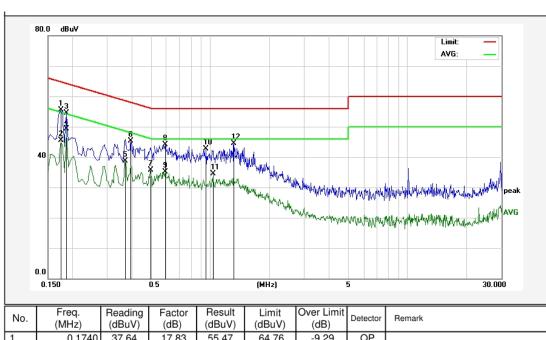
#### **Conducted Emission Test Data**

Test Site: 1# Shielded Room

Operating Condition: 13.56MHz

**Test Specification:** DC 5V from adapter input AC 120V/60Hz

Comment: **Neutral Line** Temp.(°C)/Hum.(%RH): 23°C/49%RH



No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	Remark
1	0.1740	37.64	17.83	55.47	64.76	-9.29	QP	
2	0.1740	27.66	17.83	45.49	54.76	-9.27	AVG	
3	0.1860	36.59	17.82	54.41	64.21	-9.80	QP	
4	0.1860	31.45	17.82	49.27	54.21	-4.94	AVG	
5	0.3700	20.86	17.82	38.68	48.50	-9.82	AVG	
6	0.3940	27.56	17.81	45.37	57.98	-12.61	QP	
7	0.4940	17.87	17.86	35.73	46.10	-10.37	AVG	
8	0.5940	26.23	17.86	44.09	56.00	-11.91	QP	
9	0.5940	17.18	17.86	35.04	46.00	-10.96	AVG	
10	0.9540	24.93	17.86	42.79	56.00	-13.21	QP	
11	1.0339	16.58	17.86	34.44	46.00	-11.56	AVG	
12	1.3220	26.71	17.86	44.57	56.00	-11.43	QP	

#### Note:

1. Result(dB $\mu$ V) = Reading(dB $\mu$ V) + Factor(dB); Over Limit(dB) = Result(dB $\mu$ V) - Limit(dB $\mu$ V)



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# 4. Radiation Spurious Emission and Band Edge

#### 4.1. Test Standard and Limit

Test Standard FCC Part15 C Section 15.205, 15.209 and 15.225						
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)	
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300	
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30	
	1.705MHz-30MHz	30	-	-	30	
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3	
	88MHz~216MHz	150	43.5	Quasi-peak	3	
	216MHz~960MHz	200	46.0	Quasi-peak	3	
	960MHz~1000MHz	500	54.0	Quasi-peak	3	
	Above 1000MHz	500	54.0	Average	3	
Damankı	Above 1000MHZ		74.0	Peak	3	

#### Remark:

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.
- (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.

## Note:

- (1) The tighter limit shall apply at the boundary between two frequency range.
- (2) Limitation expressed in dBuV/m is calculated by 20log Emission Level (uV/m).
- (3) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula of Ld1 = Ld2 \* (d2/d1)2.

#### Example:

F.S Limit at 30m distance is 30uV/m, then F.S Limitation at 3m distance is adjusted as Ld1 = L1 = 30uV/m \* (10)2 = 100 \* 30 uV/m

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# 4.2. Test Setup

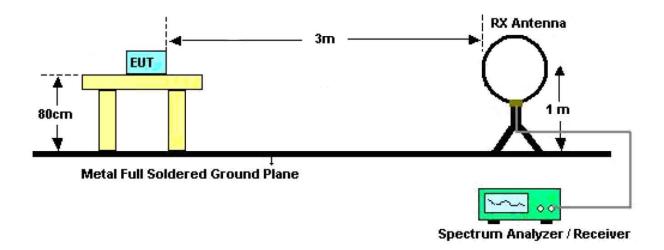


Figure 1. Below 30MHz

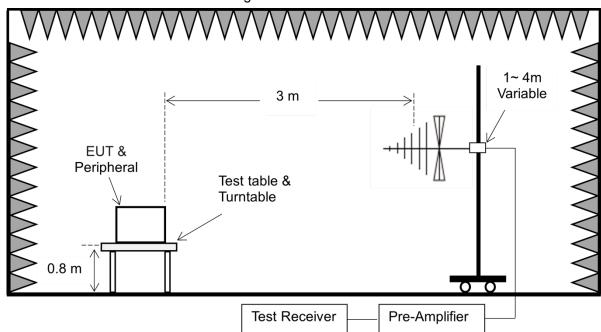


Figure 2. 30MHz to 1GHz

## 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

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For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

#### 4.4. Test Data

#### **PASS**

During the test, Pre-scan all kind of the place mode (coplane, coaxial), and found the coplane is the worst case.

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## Test Results (9KHz~0.15MHz)

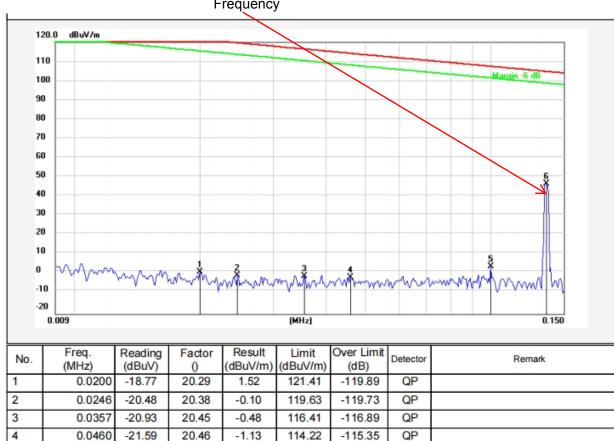
Test Mode: 13.56MHz

Power Source: DC 6V battery

Polarization: Coplane

Temp.(°C)/Hum.(%RH): 22.5°C/55%RH

Frequency



107.52

104.89

0.1000

0.1356

-16.09

26.76

20.29

20.33

4.20

47.09

QP

QP

-103.32

-57.80



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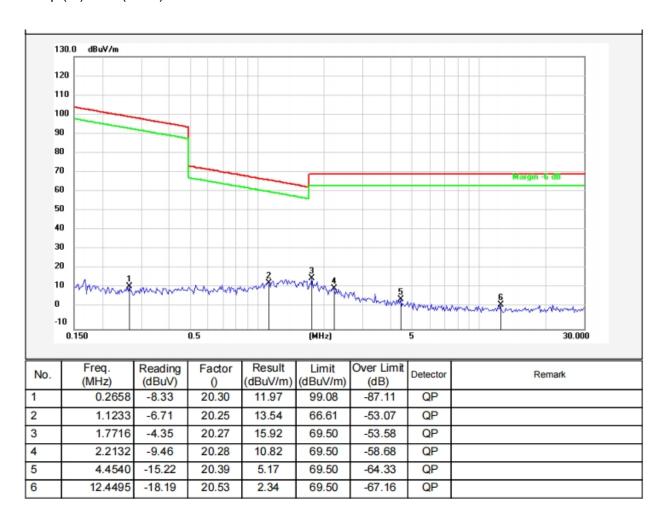
## Test Results (0.15MHz~30MHz)

Test Mode: 13.56MHz

Power Source: DC 6V battery

Polarization: Coplane

Temp.(°C)/Hum.(%RH): 22.5°C/55%RH





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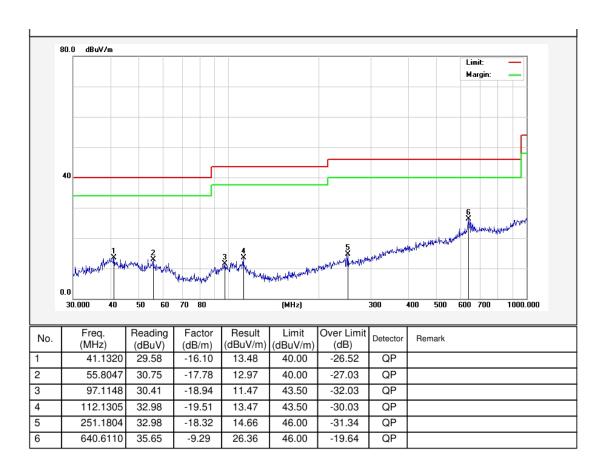
## Test Results (30~1000MHz)

Test Mode: 13.56MHz

Power Source: DC 6V battery

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.5°C/55%RH





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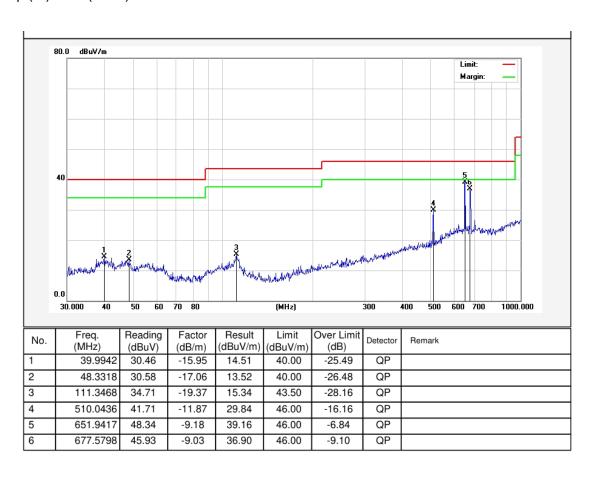
## Test Results (30~1000MHz)

Test Mode: 13.56MHz

Power Source: DC 6V battery

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 22.5°C/55%RH



#### Note:

Result(dBμV/m) = Reading(dBμV) + Factor(dB/m);
 Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)



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# **Test Results (Inband)**

In	Indicated				Correction Factor			Corrected	FCC part 15.225		
Frequency Range (MHz)	Mark Point (MHz)	Corrected Amplitude (dBuV/m) @3m	Table Angle Degree	Antenna Height (m)	Detect or	Ant. Factor (dB)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Amplitude (dBuV/m) @3m	Limit (dBuV/m) @3m	Resul t
13.110~13.410	13.388	45.90	0	1.0	QP	20.8	0.2	30.2	36.70	80.5	PAS S
13.410~13.553	13.548	51.01	0	1.0	QP	20.9	0.2	30.2	41.91	90.5	PAS S
13.553~13.567	13.555	56.37	0	1.0	QP	20.9	0.2	30.2	47.27	124	PAS S
13.567~13.710	13.575	50.70	0	1.0	QP	21.1	0.2	30.2	41.80	90.5	PAS S
13.710~14.010	13.890	46.51	0	1.0	QP	21.2	0.2	30.2	37.71	80.5	PAS S



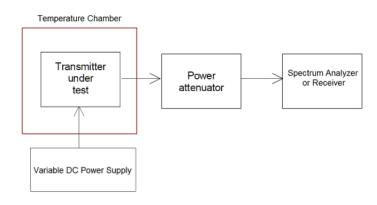
Report No.: 1812C50163212503 FCC ID: 2AQY4-027

# 5. Frequency Tolerance

# 5.1. Test Requirement

Test Standard	FCC Part15 C Section 15.225(e)
Test Limit	±0.01% (100ppm)

# 5.2. Test Setup



## 5.3. Test Procedure

Let the EUT works on 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.

## 5.4. Test Data

Temperature: 25.2 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa	
----------------------	-----------	------	-----------------------	---------	--

Voltage	Temperature	Frequency Measured Test data Limit		Limit	Verdict
(VDC)	(°C)	(MHz)	(ppm)	(ppm)	verdict
	-20	13.560384	28.28	±100	PASS
6.00	+20	13.560355	26.17	±100	PASS
	+50	13.560337	24.83	±100	PASS
5.10	+20	13.560385	28.38	±100	PASS
6.90	+20	13.560365	26.94	±100	PASS

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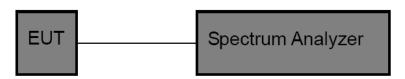
FCC ID: 2AQY4-027

# 6. 20dB Occupy Bandwidth Test

## 6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	N/A

# 6.2. Test Setup



### 6.3. Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 3kHz RBW and VBW≥3\*RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

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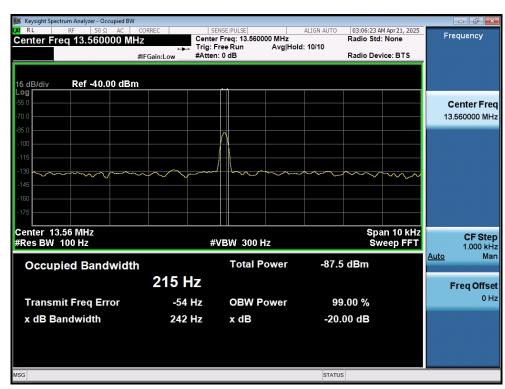


FCC ID: 2AQY4-027

## 6.4. Test Data

Temperature:	25.2 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Freq.(MHz)	Bandwidth (kHz)	Results
13.56	0.242	PASS



Note: The measured signal is Cw-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 100Hz to perform the occupied bandwidth test.

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# 7. Antenna Requirement

# 7.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 requirement: 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, 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.

# 7.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached. It complies with the standard requirement.



FCC ID: 2AQY4-027

# **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_NFC

# APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

# **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

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