

# **EMC TEST REPORT**

### FCC ID: 2AVMZ-UE168

Test Report No	EMC250317012-01-001
Product(s) Name:	Alarm Clock Radio
Model(s)	UE168
Trade Mark	uscce
Applicant	Dongguan Shunlang Electronics Co., Ltd
Address	Floor 5, Building 2, Shenxiang Industrial Park, Dabandi Cuntou
	Community, Humen town, Dongguan city, China
Receipt Date	2025.03.17
Test Date	2025.03.17~2025.03.18
Issued Date	2025.03.18
Standards	FCC CFR47 Part 15 Subpart B;
	ANSI C63.4:2014
Testing Laboratory:	Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	Standard
Jason Huang	Black Ding	Tim Zhang	
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## **Table of Contents**

1.	Certification	4
2.	Test Result Summary	5
2.1.	Test Procedures According to The Technical Standard(s):	5
2.2.	Measurement Uncertainty	5
2.3.	Test Sites	5
2.4.	Test Instruments List	6
3.	General Information	7
3.1.	Description of Test Modes	7
3.2.	Description of Support Units	7
4.	Emission Test	8
4.1.	Conduction Emission Test	8
4.2.	Radiated Emission Test	16



## History of the test report

Original Report Issue Date: 2025.03.18

• No additional attachment

### • Additional attachments were issued following record

Attachment No.	Issue Date	Description



## 1. Certification

Sample no.	POC250317012-S001
Product name	Alarm Clock Radio
Model name	UE168
Trade mark	uscce
Power supply	DC 5V from adapter or DC 4.5V from battery
Adapter information	Model:K12E050200U Input: 100-240V~, 50/60Hz 0.35A Output: 5V===2.0A Manufacturer: Dongguan Guanjin Electronics Technology Co., Ltd
Applicant	Dongguan Shunlang Electronics Co., Ltd Floor 5, Building 2, Shenxiang Industrial Park, Dabandi Cuntou Community, Humen town, Dongguan city, China
Manufacturer	Dongguan Shunlang Electronics Co., Ltd Floor 5, Building 2, Shenxiang Industrial Park, Dabandi Cuntou Community, Humen town, Dongguan city, China

#### Note:

For more detailed features description, please refer to the manufacturer's or the User's manual of the EUT.



## 2. Test Result Summary

### 2.1. Test Procedures According to The Technical Standard(s):

Emission						
Standard Item Result Remarks Tested in						
FCC CFR 47 Part 15 Subpart B	Conducted (Main Port)	PASS	Class B	Haiyun		
ANSI C63.4	Radiated	PASS	Class B	Haiyun		

Note:

(1) "N/A" denotes test is not applicable in this test report.

(2) Haiyun: Shenzhen Haiyun Standard Technical Co., Ltd.

### 2.2. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

Measurement uncertainty levels of Haiyun Lab				
Measurement Measurement Frequency Unc				
Radiated Emission	30MHz~1GHz	±4.22dB		
Radiated Emission	1GHz ~ 18GHz	±5.06dB		
Radiated Emission	18GHz ~ 40GHz	±4.98dB		
Conduction Emissions	150kHz~30MHz	±2.68dB		

### 2.3. Test Sites

Company:	Shenzhen Haiyun Standard Technical CO., Ltd.		
Addresse	No. 110-113, 115, 116, Block B, Jinyuan Business Building,		
Address.	Bao'an District, Shenzhen, China		
CNAS Registration Number:	CNAS L18252		
CAB identifier	CN0145		
A2LA Certificate Number	6823.01		
Telephone:	0755-26024411		



## 2.4. Test Instruments List

Name of Equipment	Manufacturer	Model Number	Serial Number	Inventory No.	Last Calibration	Due Calibration
Radiated Emission						
Test receiver	Rohde&Schwarz	ESU	100184	JLE011	2024/4/24	2025/4/23
Log periodic antenna	Schwarzbeck	VULB 9168	1151	JLE012	2024/4/20	2025/4/19
Low frequency amplifier	1	LNA 0920N	2014	JLE023	2024/4/24	2025/4/23
High frequency amplifier	Schwarzbeck	BBV 9718	284	JLE024	2024/4/24	2025/4/23
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02670	JLE028	2024/4/20	2025/4/19
Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	JLE029	2024/7/15	2025/7/14
Loop Antenna	SCHWARZBECK	FMZB1519B	00029	JLE030	2024/7/15	2025/7/14
Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	JLE025	2024/4/24	2025/4/23
Temp&Humidity Recorder	Meideshi	JR900	/	JLE021	2024/4/24	2025/4/23
Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
		Conduction	Emission			
LISN	Rohde&Schwarz	ENV216	100075	JLE002	2024/4/24	2025/4/23
ISN	Schwarzbeck	CATE 5 8158	#171	JLE003	2024/4/24	2025/4/23
Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2024/4/24	2025/4/23
Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	JLE047	2024/4/24	2025/4/23
Temp&Humidity Recorder	Meideshi	JR900	1	JLE020	2024/4/24	2025/4/23
Test software	Farad Technology Co., Ltd	Technology EZ-EMC Ver.TW-03A2 Co., Ltd				



## 3. General Information

### **3.1. Description of Test Modes**

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level.

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. The test data reflect the worst model.

Test Mode	Description	
Test mode1	Alarm clock(by adapter)+discharging	
Test mode2	Alarm clock(by battery)+discharging	
Test mode3	FM 98MHz(by adapter)+discharging	
Test mode4	FM 98MHz(by battery)+discharging	
Test mode5	FM 98MHz(by adapter)+discharging+earphone	
Test mode6	FM 98MHz(by battery)+discharging+earphone	

### 3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model	Manufacturer	Series No
1	Dry battery	R03 1.5V	Penonsing	/
2	Cement load	5 Ω 100W	1	/
3	Cement load	5 Ω 100W	1	1
4	Earphone	E1	XIAOMI	/



## 4. Emission Test

### **4.1. Conduction Emission Test**

### 4.1.1.Limits

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak Average Qua		Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

#### Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 4.1.2. Test Procedures

- 1. Test methods reference ANSI C63.4:2014.
- 2. The EUT was placed 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (AMN). All other support equipment powered from additional AMN. The AMN provide50 Ohm/ 50 uH of coupling impedance for the measuring instrument.
- 3. Interconnecting cables that hang closer than 0.4 m to the ground plane shall be folded back and forth in the center forming a bundle 0.3 m to 0.4 m long.
- 4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance.
- 5. The frequency range from 150 kHz to 30 MHz was searched.
- 6. Actual test configuration, please refer to the related Item EUT Test Photos.



## 4.1.3. Test set-up



For the actual test configuration, please refer to the related item – Photographs of the test configuration



### 4.1.4. Test Results

Environmental Conditions         23.4 °C, 50% RH         Test voltage         AC 120V 60Hz           Tested by         Freedom Zhuo         Test Results         Pass           Test Date         2025-03-18         Pass           Note:         Line         Freedom Zhuo         Test Results         Pass           Note:         Conducted Emission Measurement         rfc Part 9 Conducting(P)         rfc Part 9 Conducting(P) <thr< th=""><th>Product Model</th><th>UE168</th><th>Test Mode</th><th>Mode 1</th></thr<>	Product Model	UE168	Test Mode	Mode 1
Tested by         Freedom Zhuo         Test Results         Pass           Test Date         2025-03-18           Note:          Line           Note:           Note:           Note:           Conducted Emission Measurement           Optimistic Conducted Emission Measurement           Optimistic Conducted Emission Measurement           Optimistic Conducted Emission Measurement           Optimistic Conduction(011)           Optimistic Conduction(011)           Optimistic Conduction(011)           Optimistic Conduction(011)           Optimistic Conduction(011)           No. Mix         Fereq           Optimistic Conduction (011)           Optimistic Conduction (011)           Optimistic Conduction (011)           Image: Conduction (011)           No. Mix         Fereq	Environmental Conditions	23.4℃, 50% RH	Test voltage	AC 120V 60Hz
Note:         Line           Note:         Conducted Emission Measurement           #0         #0         #0         FCC PartSB Class Conducting(I)*           0         #0         #0         FCC PartSB Class Conducting(I)*           0         #0         #0         FCC PartSB Class Conducting(I)*           0         #0         #0         #0         #0           0         #0         #0         #0         #0         #0           0         #0         #0         #0         #0         #0         #0           0         #0         #0         #0         #0         #0         #0         #0           0         #0         #0         #0         #0         #0         #0         #0           0         #0         #0         #0         #0         #0         #0         #0           0         #0         #0         #0         #0         #0         #0         #0         #0         #0           10         #0         #0         #0         #0         #0         #0         #0         #0         #0         #0         #0         #0         #0         #0         #0         0	Tested by	Freedom Zhuo	Test Results	Pass
Note:         Line           Note:           Line           Software           Software           Orducted Emission Measurement           Provide temission Measurement           Provide temistic Conductor(P)           Orducted Emission Measurement           Inimit Over           Mitz         dBuV         dB         dBuV         dD         dEctor         Comment           1 * 0.1500         35.71         20.08         36.12         66.00         -10.21         OP           2         0.1500         16.04         20.08         36.12         66.00         -10.88         AVG	Test Date	2025-03-18		
LineConducted Emission Measurement $0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 +$	Note:			
No.         Mk         Freq.         Reading         Correct         Measure ment         Limit         Over           1         0.1500         35.71         20.8         55.79         66.00         -10.21         QP           2         0.1500         16.04         20.83         56.79         66.00         -10.21         QP           2         0.1500         16.04         20.08         36.12         56.00         -10.21         QP           2         0.1500         16.04         20.08         36.12         56.00         -19.88         AVG           3         0.2140         29.38         20.03         49.41         63.05         -13.64         QP           4         0.2140         9.56         20.03         29.59         53.05         -23.46         AVG           5         0.4300         6.07         20.33         49.41         63.05         -13.64         QP           4         0.2140         9.56         20.03         29.59         53.05         -23.46         AVG           5         0.4300         6.07         20.33         49.41         63.05         -13.64         QP           4         0.2140		L	ine	
No.         Mk.         Freq.         Reading         Correct Factor         Measure- ment         Limit         Over           1         0.1500         35.71         20.08         55.79         66.00         -10.21         QP           2         0.1500         16.44         20.08         36.12         56.00         -19.88         AVG           3         0.2140         29.38         20.03         49.41         63.05         -13.64         QP           4         0.2140         29.38         20.03         49.41         63.05         -23.46         AVG           5         0.4300         6.07         20.33         41.78         67.25         -20.85         AVG           7         2.1140         15.87         20.20         26.607         -13.94         QP           4         0.2140         9.56         20.03         29.59         53.05         -23.46         AVG           3         0.2140         9.56         20.03         29.59         53.05         -23.46         AVG           4         0.2140         9.56         20.03         29.55         53.05         20.85         AVG           7         2.1140         15		Conducted Emis	sion Measurement	
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Image: No.         Meading         Correct Base         Measure- ment         Limit         Over           MHz         dBuV         dB         dBuV         dB         Detector         comment           1         0.150         0.5         (MHz)         5         30.000           No.         Mk.         Freq.         Reading Level         Correct Factor         Measure- ment         Limit         Over           1         0.1500         35.71         20.08         55.79         66.00         -10.21         QP           2         0.1500         16.04         20.08         36.12         56.00         -19.88         AVG           3         0.2140         29.38         20.03         49.41         63.05         -13.64         QP           4         0.2140         29.38         20.03         29.59         53.05         -23.46         AVG           5         0.4300         21.45         20.33         41.78         57.25         -15.47         QP           6         0.4300         6.07         20.33         26.40         47.25         -20.85         AVG           7         2.1140         15.87         20.20         36.07         <	00	WWWWWWWWWWWWWWWWWWWWWWWW	Contraction of the second second	the and the second that I have a
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No.         Mk.         Freq.         Reading Level         Correct Factor         Measure- ment         Limit         Over           MHz         dBuV         dB         dBuV         dB         Detector         Comment           1         *         0.1500         35.71         20.08         55.79         66.00         -10.21         QP           2         0.1500         16.04         20.08         36.12         56.00         -19.88         AVG           3         0.2140         29.38         20.03         49.41         63.05         -13.64         QP           4         0.2140         9.56         20.03         29.59         53.05         -23.46         AVG           5         0.4300         21.45         20.33         41.78         57.25         -15.47         QP           6         0.4300         6.07         20.33         26.40         47.25         -20.85         AVG           7         2.1140         15.87         20.20         36.07         56.00         -19.93         QP           8         2.1140         6.05         20.20         26.25         46.00         -19.75         AVG           9         21	0.150	0.5 (MH	z) 5	30.000
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MHz         dBuV         dB         dBuV         dBuV         dB         Detector         Comment           1 *         0.1500         35.71         20.08         55.79         66.00         -10.21         QP           2         0.1500         16.04         20.08         36.12         56.00         -19.88         AVG           3         0.2140         29.38         20.03         49.41         63.05         -13.64         QP           4         0.2140         9.56         20.03         29.59         53.05         -23.46         AVG           5         0.4300         21.45         20.33         41.78         57.25         -15.47         QP           6         0.4300         6.07         20.33         26.40         47.25         -20.85         AVG           7         2.1140         15.87         20.20         36.07         56.00         -19.93         QP           8         2.1140         6.05         20.20         26.25         46.00         -19.75         AVG           9         21.4300         8.76         20.14         28.90         60.00         -31.10         QP	No. Mk. Freq.	Level Factor ment Lir	nit Over	
1       0.1500       35.71       20.08       55.79       66.00       -10.21       QP         2       0.1500       16.04       20.08       36.12       56.00       -19.88       AVG         3       0.2140       29.38       20.03       49.41       63.05       -13.64       QP         4       0.2140       9.56       20.03       29.59       53.05       -23.46       AVG         5       0.4300       21.45       20.33       41.78       57.25       -15.47       QP         6       0.4300       6.07       20.33       26.40       47.25       -20.85       AVG         7       2.1140       15.87       20.20       36.07       56.00       -19.93       QP         8       2.1140       6.05       20.20       26.25       46.00       -19.75       AVG         9       21.4300       8.76       20.14       28.90       60.00       -31.10       QP	MHz	dBuV dB dBuV dB	V dB Detector Com	iment
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5       0.4300       21.45       20.33       41.78       57.25       -15.47       QP         6       0.4300       6.07       20.33       26.40       47.25       -20.85       AVG         7       2.1140       15.87       20.20       36.07       56.00       -19.93       QP         8       2.1140       6.05       20.20       26.25       46.00       -19.75       AVG         9       21.4300       8.76       20.14       28.90       60.00       -31.10       QP	4 0.2140	9.56 20.03 29.59 53.	05 -23.46 AVG	
6       0.4300       6.07       20.33       26.40       47.25       -20.85       AVG         7       2.1140       15.87       20.20       36.07       56.00       -19.93       QP         8       2.1140       6.05       20.20       26.25       46.00       -19.75       AVG         9       21.4300       8.76       20.14       28.90       60.00       -31.10       QP	5 0.4300	21.45 20.33 41.78 57.	25 -15.47 QP	
7       2.1140       15.87       20.20       36.07       56.00       -19.93       QP         8       2.1140       6.05       20.20       26.25       46.00       -19.75       AVG         9       21.4300       8.76       20.14       28.90       60.00       -31.10       QP	6 0.4300	6.07 20.33 26.40 47.	25 -20.85 AVG	
8         2.1140         6.05         20.20         26.25         46.00         -19.75         AVG           9         21.4300         8.76         20.14         28.90         60.00         -31.10         QP	7 2.1140	15.87 20.20 36.07 56.	00 -19.93 QP	
9 21.4300 8.76 20.14 28.90 60.00 -31.10 QP	8 2.1140	6.05 20.20 26.25 46.	00 -19.75 AVG	
	9 21.4300	8.76 20.14 28.90 60.	00 -31.10 QP	
10 21.4300 -1.10 20.14 19.04 50.00 -30.96 AVG	10 21.4300	-1.10 20.14 19.04 50.	00 -30.96 AVG	
11 29.0060 11.92 20.28 32.20 60.00 -27.80 QP	11 29.0060	11.92 20.28 32.20 60.	00 -27.80 QP	
12 29.0060 2.55 20.28 22.83 50.00 -27.17 AVG	12 29.0060	2.55 20.28 22.83 50.	00 -27.17 AVG	

#### Note:

Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor
 Measurement= Reading + Correct Factor.

- 3. Over = Result Limit



Product Model	UE1	68		-	Test M	ode	Mode 1			
Environmental Conditions	23.4	℃, <b>50%</b>	RH	-	Test vo	oltage	AC 120	AC 120V 60Hz		
Tested by	Free	dom Zhu	uo	-	Test R	esults	Pass			
Test Date	202	5-03-18								
Note:										
				Neu	tral					
		Co	nducted E	missi	on Mea	suremei	nt			
80.0 dBuV										
						FCC Part15	B ClassB Conduction(0)	ոլ		
×		•						·		
mont						FCC Part15E	ClassB Conduction(AV	3)		
	mann	What I was		X x				x X		
W.	4.4	Manuschurdter All	White where the state	, Mund Har	When we			peak		
30 MAMM	mar M	u Au in a chaideac	Make	money	MILL MONTHING	n waa ahaa ahaa ahaa ahaa ahaa ahaa ahaa	menulter and the solution when			
	1 40 W K	I.A	An an al-an an an all all a	`	Lauranno	mannew	Provent and a second	AVG		
							and the spent car			
-20										
0.150		0.5		(MHz)		5		30.000		
No. Mk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over					
MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment			
1 0.1500	27.31	20.35	47.66	66.00	-18.34	OP				
2 0.1500						Sei .				
	10.78	20.35	31.13	56.00	-24.87	AVG				
3 0.4460	10.78 18.47	20.35 20.13	31.13 38.60	56.00 56.95	-24.87 -18.35	AVG QP				
3 0.4460 4 0.4460	10.78 18.47 7.62	20.35 20.13 20.13	31.13 38.60 27.75	56.00 56.95 46.95	-24.87 -18.35 -19.20	AVG QP AVG				
3 0.4460 4 0.4460 5 1.6780	10.78 18.47 7.62 16.18	20.35 20.13 20.13 20.35	31.13 38.60 27.75 36.53	56.00 56.95 46.95 56.00	-24.87 -18.35 -19.20 -19.47	AVG QP AVG QP				
3 0.4460 4 0.4460 5 1.6780 6 1.6780	10.78 18.47 7.62 16.18 6.79	20.35 20.13 20.13 20.35 20.35	31.13 38.60 27.75 36.53 27.14	56.00 56.95 46.95 56.00 46.00	-24.87 -18.35 -19.20 -19.47 -18.86	AVG QP AVG QP AVG AVG				
3         0.4460           4         0.4460           5         1.6780           6         1.6780           7         2.0020	10.78 18.47 7.62 16.18 6.79 13.65	20.35 20.13 20.13 20.35 20.35 20.37 20.37	31.13 38.60 27.75 36.53 27.14 34.02	56.00 56.95 46.95 56.00 46.00 56.00	-24.87 -18.35 -19.20 -19.47 -18.86 -21.98	AVG QP AVG QP AVG QP AVG				
3         0.4460           4         0.4460           5         1.6780           6         1.6780           7         2.0020           8         2.0020	10.78 18.47 7.62 16.18 6.79 13.65 7.86	20.35 20.13 20.13 20.35 20.35 20.37 20.37 20.37	31.13 38.60 27.75 36.53 27.14 34.02 28.23 20.24	56.00 56.95 46.95 56.00 46.00 56.00 46.00	-24.87 -18.35 -19.20 -19.47 -18.86 -21.98 -17.77	AVG QP AVG QP AVG QP AVG QP AVG				
3         0.4460           4         0.4460           5         1.6780           6         1.6780           7         2.0020           8 *         2.0020           9         21.2220           40         24.6000	10.78 18.47 7.62 16.18 6.79 13.65 7.86 8.43	20.35 20.13 20.13 20.35 20.35 20.37 20.37 20.37 20.18	31.13 38.60 27.75 36.53 27.14 34.02 28.23 28.61	56.00 56.95 46.95 56.00 46.00 56.00 46.00 60.00	-24.87 -18.35 -19.20 -19.47 -18.86 -21.98 -17.77 -31.39	AVG QP AVG QP AVG QP AVG QP AVG QP				
3         0.4460           4         0.4460           5         1.6780           6         1.6780           7         2.0020           8         2.0020           9         21.2220           10         21.2220           14         20.2020	10.78 18.47 7.62 16.18 6.79 13.65 7.86 8.43 -1.75	20.35 20.13 20.13 20.35 20.35 20.37 20.37 20.37 20.18 20.18 20.25	31.13 38.60 27.75 36.53 27.14 34.02 28.23 28.61 18.43 22.24	56.00 56.95 46.95 56.00 46.00 56.00 46.00 60.00 50.00	-24.87 -18.35 -19.20 -19.47 -18.86 -21.98 -17.77 -31.39 -31.57	AVG QP AVG QP AVG QP AVG QP AVG QP AVG				
3         0.4460           4         0.4460           5         1.6780           6         1.6780           7         2.0020           8 *         2.0020           9         21.2220           10         21.2220           11         28.2820           12         28.2820	10.78 18.47 7.62 16.18 6.79 13.65 7.86 8.43 -1.75 11.89 2.00	20.35 20.13 20.13 20.35 20.35 20.37 20.37 20.18 20.18 20.18 20.35	31.13 38.60 27.75 36.53 27.14 34.02 28.23 28.61 18.43 32.24 22.25	56.00 56.95 46.95 56.00 46.00 56.00 46.00 60.00 50.00 60.00	-24.87 -18.35 -19.20 -19.47 -18.86 -21.98 -17.77 -31.39 -31.57 -27.76 -26.65	AVG QP AVG QP AVG QP AVG QP AVG QP AVG QP				

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, 2. Measurement= Reading + Correct Factor.

3. Over = Result – Limit



Product Model	UE1	68		-	Test M	ode	Mode 3	
Environmental Conditions	23.4	°C, <b>50%</b>	RH	-	Test vo	oltage	AC 120V	60Hz
Tested by	Free	dom Zh	uo	-	Test Re	esults	Pass	
Test Date	2025	5-03-18						
Note:								
				Lin	е			
		Co	nducted	Emissio	on Mea	suremer	nt	
80.0 dBuv								
						FCC Part15	B ClassB Conduction(QP)	
X						FCC Part15B	ClassB Conduction(AVG)	
IA î∖ î∖	No. K		. In	(Šuoli				×
	t than the the	an bain of the state of the	Hillinghthere	WWWW	Will Mar + W + W W	Herman Market	Man Maria	M.M.
30 10 1	<b>η μ</b> τι 1 δ δ 4 6 δ	العديدة والم	UNA MARANA	A1449			and a should be should be should be a should be a should be a should be a shou	peak
P V V V	) ( ( V V V W	h wanter and the	Met. Linite AM	when when the second	Mr. Warner	www.waterda.a	many and a second	AVG
							1. An ad a design when the	Ň
-20								
0.150		0.5		(MHz)		5		30.000
No. Mk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1 0.1660	25.98	20.29	46.27	65.16	-18.89	QP		
2 0.1660	11.69	20.29	31.98	55.16	-23.18	AVG		
3 0.1980	24.10	20.36	44.46	63.69	-19.23	QP		
4 0.1980	9.25	20.36	29.61	53.69	-24.08	AVG		
5 0.2340	21.11	20.18	41.29	62.31	-21.02	QP		
6 0.2340	8.44	20.18	28.62	52.31	-23.69	AVG		
0.4380	20.97	20.15	41.12	57.10	-15.98			
0 0.4380	17.00	20.10	28.03	56.00	-10.07			
10 2.1700	7 15	20.33	27.49	46.00	-18.52			
11 27 9340	12.60	20.33	32.94	60.00	-27.06	OP		
12 27.9340	3.57	20.34	23.91	50.00	-26.09	AVG		
12 21.0040	0.01	20.01	20.01	00.00	20.00			

1.Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor

- 2.Measurement= Reading + Correct Factor.
- 3.Over = Result Limit



Product Model	UE1	68		-	Test M	ode	Mode 3	
Environmental Conditions	23.4	°℃, <b>50%</b>	RH	-	Test vo	oltage	AC 120\	/ 60Hz
Tested by	Free	dom Zh	uo	-	Test Re	esults	Pass	
Test Date	202	5-03-18						
Note:								
				Neu	tral			
		Co	nducted I	Emissio	on Mea	suremei	nt	
80.0 dBuV								
×						FCC Part15	iB ClassB Conduction(QI	<u>ŋ</u>
30	MMM	Marrow	WM	Marine Marine	Humannen	FCC Parti 5E	ClassB Conduction(AVE	peak
V V V V	AA AAAA	h falettin anvelded.			tin the analysis of the second	Westfrederichten und	Marthead Marace and a second and	AVG
-20								
0.150		0.5		(MHz)		5		30.000
No. Mk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1 * 0.1660	31.31	20.29	51.60	65.16	-13.56	QP		
2 0.1660	14.30	20.29	34.59	55.16	-20.57	AVG		
3 0.2060	28.64	20.34	48.98	63.37	-14.39	QP		
4 0.2060	11.22	20.34	31.56	53.37	-21.81	AVG		
5 0.2380	25.99	20.16	46.15	62.17	-16.02	QP		
6 0.2380	11.18	20.16	31.34	52.17	-20.83	AVG		
7 0.2700	24.25	20.11	44.36	61.12	-16.76	QP		
8 0.2700	8.25	20.11	28.36	51.12	-22.76	AVG		
9 1.6540	17.51	20.35	37.86	56.00	-18.14	QP		
10 1.6540	7.19	20.35	27.54	46.00	-18.46	AVG		
11 27.4500	12.22	20.35	32.57	60.00	-27.43	QP		
12 27.4500	3.16	20.35	23.51	50.00	-26.49	AVG		

1.Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, 2.Measurement= Reading + Correct Factor.

3.Over = Result – Limit



Product Model	UE168	Test Mode	Mode 5
Environmental Conditions	23.4℃, 50% RH	Test voltage	AC 120V 60Hz
Tested by	Freedom Zhuo	Test Results	Pass
Test Date	2025-03-18		
Note:			
	L	ine	
	Conducted Emis	sion Measurement	
80.0 dBuV			
		ECC Part15B Clas	sB Conduction(OP)
*		FCC Part15B Class	B Conduction(AVG)
MAN	MA an all motion of the		X
20 00 CM (M	and the sound of a second seco	north speak of a manufacture of the product of the speak and the speak of the speak	
30	a the second and the all the the second a second	tui	peak
me when	A & Charle Mitchellar	Walth of the state	AVG
-20			20.000
0.150	U.5 (MHz	5	30.000
No.Mk.Freq.	eading Correct Measure- Level Factor ment Lim	it Over	
MHz	dBuV dB dBuV dBu	V dB Detector Com	ment
1 0.1500 2	20.26 20.35 40.61 66.0	0 -25.39 QP	
2 0.1500	7.41 20.35 27.76 56.0	0 -28.24 AVG	
3 0.3940 2	21.50 20.22 41.72 57.9	8 -16.26 QP	
4 0.3940	7.85 20.22 28.07 47.9	8 -19.91 AVG	
5 * 0.4380 2	20.84 20.15 40.99 57.1	0 -16.11 QP	
6 0.4380	5.54 20.15 25.69 47.1	0 -21.41 AVG	
7 1.0380	14.79 20.06 34.85 56.0	0 -21.15 QP	
8 1.0380	4.62 20.06 24.68 46.0	0 -21.32 AVG	
9 2.0220	16.16 20.36 36.52 56.0	0 -19.48 QP	
10 2.0220	5.63 20.36 25.99 46.0	0 -20.01 AVG	
11 25.4740	12.00 20.29 32.29 60.0	U -27.71 QP	
12 25.4740	2.32 20.29 22.61 50.0	u -27.39 AVG	

1.Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor

- 2.Measurement= Reading + Correct Factor.
- 3.Over = Result Limit



Product Model	UE168	Test Mode	Mode 5
Environmental Conditions	23.4℃, 50% RH	Test voltage	AC 120V 60Hz
Tested by	Freedom Zhuo	Test Results	Pass
Test Date	2025-03-18		
Note:			
	N	eutral	
80.0 dBuV	Conducted Em	ssion Measurement	
		FCC Part15B Cla	ssB Conduction(QP)
		FCC Part15B Class	B Conduction(AVG)
M X	x		
- Arana	WWW Charman and a start the	Milli	A MA
30	A CONTRACTOR OF A CONTRACTOR O	When the some some man and the work	M peak
mon	with Marther the produce of the the other		Marine Marine
		many the company of the second and a second and a second as a seco	and a second sec
-20	0.5 (1		20,000
	u.u.u.u.u.u.u.u.u.u.u.u.u.u.u.u.u.u.u.	12) 3	30.000
No. Mk. Freq.	Level Factor ment L	mit Over	
MHz	dBuV dB dBuV d	BuV dB Detector Con	nment
1 0.1540	20.93 20.33 41.26 6	.78 -24.52 QP	
2 0.1540	6.49 20.33 26.82 5	.78 -28.96 AVG	
3 0.2220	16.40 20.25 36.65 62	.74 -26.09 QP	
4 0.2220	4.09 20.25 24.34 52	.74 -28.40 AVG	
5 * 0.4060	20.56 20.23 40.79 5	.73 -16.94 QP	
6 0.4060	6.43 20.23 26.66 4	.73 -21.07 AVG	
7 0.4540	18.52 20.12 38.64 56	.80 -18.16 QP	
8 0.4540	8.15 20.12 28.27 46	.80 -18.53 AVG	
9 1.6700	17.88 20.35 38.23 56	.00 -17.77 QP	
10 1.6700	6.98 20.35 27.33 40	.00 -18.67 AVG	
11 27.9220	12.20 20.34 32.54 60	.00 -27.46 QP	
12 27.9220	3.28 20.34 23.62 50	.00 -26.38 AVG	

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor,

2. Measurement= Reading + Correct Factor.

3. Over = Result – Limit



### 4.2. Radiated Emission Test

### 4.2.1.Limit

FCC Part15B

	lir	nits at 3m (dBµV/r	n)
Frequency (MHZ)	QP Detector	PK Detector	AV Detector
30 – 88	40.0		
88 – 216	43.5		
216 – 960	46.0		
960 – 1000	54.0		
Above 1000		74.0	54.0

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705-108	1000.
108-500	2000.
500-1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

### 4.2.2. Test Procedures

Test methods reference ANSI C63.4:2014.

- Below 1GHz, the measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 m above the ground at a 3 m semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. Above 1GHz, the measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 m above the ground at a 3 m semi-anechoic chamber.

The table was rotated 360 degrees to determine the position of the highest radiation.



- 3. The height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receiver peak detector mode.
- Pre scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 6. For above 1GHz, If the emission level of the EUT In "Peak Detection" mode is 20 dB lower than the "Average" limit (means that the emission level in "Peak Detection" mode also complies with the limit in "Average Mode"), testing will be stopped and "Peak" values of the EUT will be reported, otherwise, the emissions of the EUT will be measured in "Average Mode" again and then reported.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz).
- 8. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.(above 1GHz).



### 4.2.3.Test Set-up

Radiated measurement test set-up frequency below 1 GHz



Radiated measurement test set-up frequency above 1 GHz







For the actual test configuration, please refer to the related item – Photographs of the Test Configuration



### 4.2.4.Test Results

#### Below 1GHz

Product M	lodel	UE16	68		L	ocation		3m d	chambe	er	
Environm Condition	ental s	22.6	°C, <b>49%</b>	RH	т	Test Mode			Mode 1		
Antenna F	Pole	Horiz	contal		Т	est volt	age	AC <sup>2</sup>	120V/6	0Hz	
Tested by	/	Lemo	on He		Т	est Res	ults	PAS	S		
Test Date	•	2025	-03-17								
Note:											
				Rad	iated E	mission					
80.0	dBuV/m										
-20	k han han h			walk tran with	3 Water Marchard	and the second second	FC 2 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	C Part 158 3	Marain -6	dB pagenceille	
30.0	00 40	50 60	70 80		(MHz)		300 40	0 500	600 700	1000.000	
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	A	ntenna Height [	Table Degree		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree C	omment	
1	36.8953	32.82	-10.43	22.39	40.00	-17.61	peak				
2	137.4202	28.65	-10.04	18.61	43.50	-24.89	peak				
3	170.7926	34.92	-10.06	24.86	43.50	-18.64	peak				
4	227.6906	39.25	-11.53	21.12	46.00	-18.28	реак				
6	341.9786	35.48	-7.63	23.02	46.00	-18.15	peak				

- Correct Factor = Antenna Factor + Cable Loss Amplifier Gain
   Measurement= Reading + Correct Factor.
   Over = Result Limit



Product Model	UE168	Location		3m chamber		
Environmental Conditions	22.6℃, 49% RH	Test Mod	le	Mode 1		
Antenna Pole	Vertical	Test volt	age	AC 120V/60Hz		
Tested by	Lemon He	Test Res	ults	PASS		
Test Date	2025-03-17					
Note:						
		Radiated Emission				
80.0 dBu∀/m						
			FCC Pa	art 158 3M Radiation		
				Margin -6 dB		
30 <u>1</u>		<b>4</b> *		5 Auguran		
WIN Store Mary Mary	2 3 X		2 de marsharth	1 Junan		
LL Here	away how have have	when the whend have a standard	(Werner Margaret	Winning		
-20 30.000 40	50 60 70 80	(MHz)	300 400	500 600 700 1000.000		
R	eading Correct Meas	ure-	Ante	nna Table		
No. Mk. Freq.	Level Factor me	nt Limit Over	Hei	ght Degree		
MHz	dBuV dB/m dBuV	//m dBuV/m dB	Detector cr	n degree Comment		
1 * 37.2855	37.95 -10.36 27.	59 40.00 -12.41	peak			
2 53.8818	31.65 -10.66 20.9	99 40.00 -19.01	peak			
3 114.1138	35.02 -12.68 22.3	34 43.50 -21.16	реак			
4 170.7926	39.21 -10.06 29.3	15 43.50 -14.35	реак			
6 739 6604	28.85 1.27 30	12 46.00 -25.01	peak			
	20.00 1.21 00.	10.00 -10.00	poun			

- Correct Factor = Antenna Factor + Cable Loss Amplifier Gain
   Measurement= Reading + Correct Factor
- 3. Over = Result Limit



Prod	uct Model	UE16	8		L	ocation		3m d	3m chamber			
Envir Cond	onmental litions	22.6°	C, <b>49%</b>	RH	Т	Test Mode			Mode 2			
Anter	nna Pole	Horiz	ontal		Т	est volt	age	DC 4	4.5V			
Teste	ed by	Lemo	n He		Т	Test Results PASS						
Test	Date	2025-	03-17									
Note:												
	80.0 dBuV/m			Radi	ated E	mission	1					
	-20 30.000 40	14/11/14/14/14/14/14/14/14/14/14/14/14/1	70 B0	anthy hydrollow	4 X (MHz)	5 Kuttuntu Umuhahanta	FC	C Part 158 3	BM Radiation Marcin -6	dB white 1000.000		
No	F Mk Erog	Reading	Correct	Measure-	Limit	Over	А	ntenna	Table			
INO.	MHz	dBuV	Hactor	dBul//m	dBu\//m	dB	Detector		Jegree	omment		
1	* 37.2855	34.97	-10.36	24.61	40.00	-15.39	peak	UIII	acyree Ci			
2	88.0330	30.23	-14.43	15.80	43.50	-27.70	peak					
3	114.1138	30.59	-12.68	17.91	43.50	-25.59	peak					
4	170.7926	36.95	-10.06	26.89	43.50	-16.61	peak					
5	227.6906	41.08	-11.53	29.55	46.00	-16.45	peak					
6	447.9821	27.56	-4.85	22.71	46.00	-23.29	peak					

- Correct Factor = Antenna Factor + Cable Loss Amplifier Gain
   Measurement= Reading + Correct Factor.
   Over = Result Limit



Produ	uct I	Model	UE16	UE168			L	ocation		3	3m chamber				
Enviro Cond	onn itior	nental ns	22.6°	°C, 4	.9%	RH	т	Test Mode				le 2			
Anter	nna	Pole	Verti	cal			Т	est volt	age		DC -	4.5V			
este	d b	у	Lemo	on H	е		Т	est Res	ults	F	PAS	S			
est l	Dat	е	2025	-03-	17										
lote:															
						Rac	liated E	mission	1						
	80.U	dBuV/m													
										_					
	-									FCC Part	: 158 :	3M Radi Marc	ation gin -6 (	4B [	
	20														
	30	Mrdu Mariana	montectures	white	2 M	A Contraction of the second se	er brank ma	\$ www.hum.hum.hum	(veners) for Monder	- E	WingWine	N	Julio Maria		
	-20														
	30	.000 40	50 60	70 8	30		(MHz)		300	400	500	600 7	700	1000.	000
No.	Mk.	Freq.	Reading Level	Corr Fac	ect tor	Measure- ment	Limit	Over		Anten Heigl	na ht	Table Degree	e		
		MHz	dBuV	dB/	'n	dBuV/m	dBuV/m	dB	Detector	cm		degree	Cor	mment	
-		27 6709	35.15	-10.	32	24.83	40.00	-15.17	peak						
1	*	51.0150						24.22	poak						
1	*	88.0330	33.60	-14.	43	19.17	43.50	-24.33	реак						
1 2 3	*	88.0330 114.1138	33.60 34.51	-14. -12.	43 68	19.17 21.83	43.50 43.50	-24.33	peak						
1 2 3 4	*	88.0330 114.1138 170.7926	33.60 34.51 33.16	-14. -12. -10.	43 68 06	19.17 21.83 23.10	43.50 43.50 43.50	-24.33 -21.67 -20.40	peak peak						
1 2 3 4 5	*	88.0330           114.1138           170.7926           227.6906	33.60 34.51 33.16 33.56	-14. -12. -10. -11.	43 68 06 53	19.17 21.83 23.10 22.03	43.50 43.50 43.50 46.00	-24.33 -21.67 -20.40 -23.97	peak peak peak peak						

- 1. Correct Factor = Antenna Factor + Cable Loss Amplifier Gain 2. Measurement= Reading + Correct Factor 3. Over = Result Limit



Produ	oduct Model UE168							Location						3m chamber					
nvir	onn	nental																	
Cond	itio	ns	22	2.6℃	2, 4	9%	RH	Т	est Mo	de	ſ	Mode 3							
nter	nna	Pole	Ho	orizo	onta	I		Т	est volt	age	ŀ	AC 120V/60Hz							
este	ed b	у	Le	Lemon He					Test Results				S						
est l	Dat	е	20	25-0	03-1	7													
lote:																			
							Ded												
	80. C	) dBuV/m					Rad		mission	1						_			
											FCC Par	t 158 (	3M Rad	liation		_			
													Ma	rgin -e					
						╧													
	30					_		7	4	5 6				-	weather	<u>,</u>			
		1					2	×	Ť	11.	Manuth		port	w.					
		how have have	a manata and a manata	Mary	there .	رام الماني	Mr. Harden and Martin	in a support	Heplen Hender	Augusting	. 4	(externa	1						
					1.100	64 - 94 - 1													
													_			1			
	-20	.000 40	50	60 7	70 80	)		(MHz)		300	400	500	600	700	1000				
			Readi	ng (	Corre	ect	Measure-				Anten	na	Table	е					
No.	Mk.	. Freq.	Leve		Fact	or	ment	Limit	Over		Heig	ht	Degre	e					
1		MHz	dBuV	,	dB/n	1	dBuV/m	dBuV/m	dB	Detector	cm		degre	e C	omment	t			
		100.070	4 30.80	) )	- 10.3	10	20.33	40.00	-19.07	реак									
-2		138.8/3	5 21.18	5	-9.9	4	17.84	43.50	-25.66	реак									
- 3		227 600	0 34./3	) )	-10.0	20	24.09	43.50	- 18.81	реак									
		227.6906 37.23		37.23 -11.53		25.70	40.00	00 47.07 peak											
4	*	284 976	7 37 6/	1	_8.0	1	28 73	46.00	-17 27	neak									

- Correct Factor = Antenna Factor + Cable Loss Amplifier Gain
   Measurement= Reading + Correct Factor.
   Over = Result Limit



Product	Model	UE16	88		Locatio	on	3m (	3m chamber				
Environi Conditio	mental ons	22.6°	C, <b>49%</b>	RH	Test M	ode	Mod	Mode 3				
Antenna	a Pole	Verti	cal		Test vo	oltage	AC <sup>2</sup>	Hz				
Tested b	су	Lemo	n He		Test R	esults	PASS					
Test Da	te	2025	-03-17		•							
Note:												
				Radiate	ed Emissio	on						
80.	0 dBuV/m											
						FC	C Part 158 3	BM Radiation Margin -6 o	IB E			
30	MANY AND MANY	um Khuhund	3 Muniper Many	Manan	5 Mary Mark		ine luymad	Januar				
-20 31	0.000 40	50 60	70 80	(MI	łz)	300 40	0 500	600 700	1000.000			
No Mk	Freq	Reading	Correct	Measure-	imit Over	A	ntenna	Table				
140. 141	MHz	dBuV	dB/m	dBuV/m dB	uV/m dB	Detector	cm	degree Cor	mment			
1 *	37.8121	37.04	-10.31	26.73 4	0.00 -13.2	7 peak		2				
2	55.6093	30.95	-10.76	20.19 4	0.00 -19.8	1 peak						
3	88.0330	35.09	-14.43	20.66 43	3.50 -22.8	4 peak						
4	114.1137	33.33	-12.68	20.65 4	3.50 -22.8	5 peak						
5	170.7926	39.44	-10.06	29.38 43	3.50 -14.1	2 peak						
6	455.9058	27.03	-4.70	22.33 4	6.00 -23.6	7 peak						

- 1.Correct Factor = Antenna Factor + Cable Loss Amplifier Gain 2.Measurement= Reading + Correct Factor
- 3.Over = Result Limit



Produ	uct N	Node	/lodel UE10					L	Location				3m chamber				
Envir Cond	onn litior	nenta ns	I	22.6	℃,∠	9%	RH	Т	Test Mode			Mode 4					
Anter	nna	Pole		Hori	Horizontal					Test voltage				,			
Teste	ed by	y		Lem	on H	е		Т	est Res		PAS	S					
Test	Date	e		2025	5-03-	17											
Note:		_															
							Par	liated E	missio	<b>.</b>							
	80.0	dBuV/	m													_	
											FCC Pa	rt 158 :	3M Radi	iation			
													Mar	gin -6	dB		
	-												_				
	30								5								
		×						×	Ť		6 X			a miles	nit dine		
	-	Α		3			3 X			- In many population	May May	MUMAN	ra la come			_	
	4	Manut	And here with	NUMBAL	mahahahad	mbr	approval to Arvin "	and so all by the second	where have been								
	20																
	-20 30.	000	40	50 60	70	B0		(MHz)		300	400	500	600	700	100	0.000	
		_	F	Reading	Cor	rect	Measure-	Limit	Over		Ante	nna	Table	;			
NO.	MK.	Fre	q.	Level	Fac	tor	ment	Limit	Over		Heig	ght	Degre	e			
- 1	*	MH 27.5	IZ 100	dBuV	dB 10	/m	dBuV/m	dBuV/m	dB	Detector	cn	1	degree	e Co	ommer	nt	
		52.6	+00	26.90	-10	64	16.25	40.00	-13.21	peak							
2		114 1	138	29.87	-10	68	17 19	40.00	-25.75	neak							
4		170.7	926	37 15	-10	06	27.09	43.50	-16 41	peak							
5		227.6	906	40.26	-11	.53	28.73	46.00	-17.27	peak							
6		434.0	651	29.75	-5.	13	24.62	46.00	-21.38	peak							

- 1.Correct Factor = Antenna Factor + Cable Loss Amplifier Gain 2.Measurement= Reading + Correct Factor.
- 3.Over = Result Limit



Product	Model	UE16	68		L	ocation		3	3m chamber					
Environn Condition	nental ns	22.6°	°C, <b>49%</b>	6 RH	т	est Mod	de	N	Mode 4					
Antenna	Pole	Verti	cal		Т	est volt	age	D	DC 4.5V					
Tested b	у	Lemo	on He		Т	Test Results PASS								
Test Dat	е	2025	-03-17											
Note:														
				Bod	inted E	mission								
80.0	dBuV/m			Rad	lated E	mission								
								FCC Part	15B 3M	Radia	ion			
										Margi	n -6 dB			
30	1													
	Mahan Wanter	Landara a	2	3 Marinahu	A Market Market	5 X	www.	NIN THE	adlina proba	ndensed	mark			
ĺ	on many in the	ton a substantially	manshabadir V	W1 <sup>4</sup>	. Shink	parties to a								
-20	000 40	50 60	70 80		(MHz)		300	400 '	500 G	00 70	<u> </u>		0	
		Reading	Correct	Measure-	(1112)		300	Antenn	a Ta	able				
No. Mk.	Freq.	Level	Factor	ment	Limit	Over	Detector	Heigh	t De	gree	Com	mont		
1 *	37.4165	38.41	-10.35	28.06	40.00	-11.94	peak	cili	ue	-yree	Com	ment		
2	87.7246	33.98	-14.40	19.58	40.00	-20.42	peak							
3	114.1138	33.77	-12.68	21.09	43.50	-22.41	peak							
4	170.7926	35.10	-10.06	25.04	43.50	-18.46	peak							
5	227.6906	35.28	-11.53	23.75	46.00	-22.25	peak							
6	434.0651	28.62	-5.13	23.49	46.00	-22.51	peak							

- 1.Correct Factor = Antenna Factor + Cable Loss Amplifier Gain 2.Measurement= Reading + Correct Factor 3.Over = Result Limit



rodu	duct Model UE			16	8			L	Location				3m chamber					
nvir ond	onr	nental ns		22.	22.6℃, 49% RH					Test Mode				le 5				
nter	nna	Pole		Ho	rizc	onta	al		Т	Test voltage				AC 120V/60Hz				
este	ed b	y		Ler	Lemon He					Test Results				PASS				
est	Dat	е		202	25-(	03-	17											
ote:																		
								Rad	liated E	missior	1							
	80. C	) dBuV/n	n														7	
												FCC Pa	rt 1 <b>5</b> 8 :	3M Rad	liation			
												_		Ma	rain -6	dB		
							<u> </u>					_				ç,		
	30									4	5					Jan	e e	
		1							3	Î	× I	dillo		harde	and the second			
		here was the	ontour	www.	Mir al			2 Annother	homen	were ungrowt	always and hand	ANN INCOM	maker	W			1	
		and all an an				mag	Hormet	MANAMAN	, indexed	We saw it								
	-20																	
	30	.000 4	40	50 6	;0 7	70 8	30		(MHz)		300	400	500	600	700	1000	D. 000	
No.	Mk	. Free	q.	Reading Level	g (	Corr Fac	ect tor	Measure- ment	Limit	Over		Anter Heig	nna jht	Tabl Degre	e ee			
		MH:	z	dBuV		dB/	m	dBuV/m	dBuV/m	dB	Detector	cm	1	degre	e C	ommen	ıt	
1		36.89	953	31.41		-10.	43	20.98	40.00	-19.02	peak							
2		114.11	138	29.30		-12.	68	16.62	43.50	-26.88	peak							
3		170.79	)26	29.38		-10.	06	19.32	43.50	-24.18	peak							
4		227.69	906	39.49		-11.	53	27.96	46.00	-18.04	peak							
5		284.97	67	36.23		-8.9	91	27.32	46.00	-18.68	peak							
0	*	827.49	34	33 14		2.0	4	36.08	46.00	-9.92	neak							

- Correct Factor = Antenna Factor + Cable Loss Amplifier Gain
   Measurement= Reading + Correct Factor.
   Over = Result Limit



Product Model	UE168		Location		3m o	3m chamber				
Environmental Conditions	22.6℃, 49%	RH	Test Mo	de	Mod	Mode 5				
Antenna Pole	Vertical		Test volt	age	AC 120V/60Hz					
Tested by	Lemon He		Test Res	ults	PAS	S				
Test Date	2025-03-17				-					
Note:										
		Radiated	Emission							
80.0 dBu∀/m										
				FCC	C Part 158 3	M Radiation				
						Margin -6				
30		4					mand			
Weer Lon Mark	2	3 X	5	Š.	and the second	future				
hat a marking here	and the second way the second second	number	Hundry Washing	Mund-Millionard	Wender	e,				
-20										
30.000 40 5	50 60 70 80	(MHz)		300 400	D 500	600 700	1000.000			
R No Mk Frea	eading Correct I	Measure- ment Lim	it Over	Ar	ntenna leight [	Table				
MHz	dBuV dB/m	dBuV/m dBuV	//m dB	Detector	cm	degree Co	mment			
1 * 37.5480	36.93 -10.34	26.59 40.0	00 -13.41	реак						
1 * 37.5480 2 54.2610	36.93 -10.34 31.42 -10.65	26.59 40.0 20.77 40.0	00 -13.41 00 -19.23	peak peak						
1 *         37.5480           2         54.2610           3         135.5062	36.93     -10.34       31.42     -10.65       32.17     -10.01	26.59         40.0           20.77         40.0           22.16         43.5	00         -13.41           00         -19.23           50         -21.34	peak peak peak						
1         37.5480           2         54.2610           3         135.5062           4         170.7926	36.93     -10.34       31.42     -10.65       32.17     -10.01       39.68     -10.06	26.59         40.0           20.77         40.0           22.16         43.5           29.62         43.5	00         -13.41           00         -19.23           50         -21.34           50         -13.88	peak peak peak peak						
1         *         37.5480           2         54.2610         3           3         135.5062         3           4         170.7926         3           5         230.0985         3	36.93       -10.34         31.42       -10.65         32.17       -10.01         39.68       -10.06         31.09       -11.22	26.59         40.0           20.77         40.0           22.16         43.5           29.62         43.5           19.87         46.0	00         -13.41           00         -19.23           50         -21.34           50         -13.88           00         -26.13	peak peak peak peak peak						

- 1.Correct Factor = Antenna Factor + Cable Loss Amplifier Gain 2.Measurement= Reading + Correct Factor
- 3.Over = Result Limit



Produc	t Model UE1		Ξ168			ocation		3m	3m chamber				
Enviro Conditi	nmental ions	22.6°	C, <b>49%</b>	RH	Т	est Moo	de	Мос	Mode 6				
Antenn	na Pole	Horiz	ontal		Т	est volt	age	DC	DC 4.5V				
Tested	by	Lemo	n He		Т	Test Results			PASS				
Test D	ate	2025	-03-17										
Note:													
				Padia	ated E	mission							
8	30.0 dBuV/m			Ruure									
							FC	C Part 158	3M Radiation	_			
									Margin -6	dB			
										]			
	30		ſ							6 Xul meter			
	1			_				5	mone				
	Acher		Ş	3	HUNLI	A March and	Windon Mandeson and and	White have	M				
	water the and and	and the second secon	minin	he has not a server	M. quarter and	white							
-2	n												
_	30.000 40	50 60	70 80	(	MHz)		300 40	0 500	600 700	1000.000			
No. N	/k Erea	Reading	Correct	Measure-	Limit	Over	A	ntenna Jeight	Table				
110. 1	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree Co	mment			
1	36.6374	34.34	-10.48	23.86	40.00	-16.14	peak	GIII	degree of				
2	88.0330	29.26	-14.43	14.83	43.50	-28.67	peak						
3	132.6850	28.69	-10.21	18.48	43.50	-25.02	peak						
4	281.0074	26.58	-9.17	17.41	46.00	-28.59	peak						
5	455.9058	28.04	-4.70	23.34	46.00	-22.66	peak						
6 *	830.4001	30.17	3.01	33.18	46.00	-12.82	peak						

- 1.Correct Factor = Antenna Factor + Cable Loss Amplifier Gain 2.Measurement= Reading + Correct Factor.
- 3.Over = Result Limit



Produ	ict I	Model	UE16	JE168					Location				3m chamber				
Enviro Condi	onn itior	nental ns	22.6°	Ċ,4	9%	RH	т	est Moo	Ν	Mode 6							
Anten	na	Pole	Verti	Vertical					Test voltage								
este	d b	у	Lemo	on He	Э		Т	est Res	ults	F	PAS	S					
est [	Date	e	2025	-03-′	17												
lote:																	
	80.0	dBuV∕m				Rad	liated E	mission									
	[																
	-				_												
	-									FCC Part	158 3	M Radia Maro	ation in -6 d	B [			
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	30	1											Ĵ	durk			
		A				2 3		*		5		Hatter					
	"	And Marian	hadron mar Youpe	mand	h.	Annalia	be when when the section of	herderent	ester abor star Alba	M. L	and the second						
	-										_						
	-			_													
	-				_												
	-20	000 40	50 60	70 0	0		(641)		200	400	500	C00 7	00	1000.0	100		
	30.	.000 40	Peading	Com	ect	Measure	(MHZ)		300	Anten		Table	00	1000.0			
No.	Mk.	Freq.	Level	Fact	or	ment	Limit	Over		Heig	ht D	egree	e				
		MHz	dBuV	dB/r	n	dBuV/m	dBuV/m	dB	Detector	cm		degree	Con	nment			
		36 7661	38.94	-10.4	46	28.48	40.00	-11.52	peak								
1		00.7001				10.42	43 50	-24.07	peak								
1		102.0013	33.01	-13.	58	19.43	10.00										
1 2 3		102.0013 135.9821	33.01 29.00	-13. -9.9	58 )5	19.43	43.50	-24.45	peak								
1 2 3 4		102.0013           135.9821           231.7178	33.01 29.00 34.94	-13. -9.9 -11.1	58 )5 12	19.43 19.05 23.82	43.50 46.00	-24.45 -22.18	peak peak								
1 2 3 4 5		102.0013           135.9821           231.7178           444.8514	33.01 29.00 34.94 28.06	-13. -9.9 -11. -4.8	58 )5 12 )7	19.43 19.05 23.82 23.19	43.50 46.00 46.00	-24.45 -22.18 -22.81	peak peak peak								

- 1. Correct Factor = Antenna Factor + Cable Loss Amplifier Gain 2. Measurement= Reading + Correct Factor 3. Over = Result Limit



## Statement

- 1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).
- 2. The report is invalid without the signature of the approver.
- 3. The report is invalid if altered arbitrarily.
- 4. The report shall not be partially copied without the written approval of the unit.
- 5. The reported test results are only valid for the tested samples.
- 6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

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### (END OF REPORT)