Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

FCC 15.231
DXX Test Report

for

I-DING MEDICAL EQUIPMENT CO., LTD.

No. 66, Pizitou Rd., Zuoying Dist., Kaohsiung City 81352, Taiwan (R.O.C.)

Product	:	**Enuresis Alarm**
Model	:	**UA433**
Brand	:	**IDING**
FCC ID	:	**2ALYMIDING2017**

Prepared by: : **AUDIX Technology Corporation, EMC Department**

Testing Laboratory
1724

TESTING
NVLAP LAB CODE 200077-0

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, TAF or any government agencies.

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TEST REPORT CERTIFICATION

Applicant	:	I-DING MEDICAL EQUIPMENT CO., LTD.
Manufacturer	:	I-DING MEDICAL EQUIPMENT CO., LTD.
EUT Description		
(1) Product	:	Enuresis Alarm
(2) Model	:	UA433
(3) Brand	:	IDING

Applicable Standards:

47 CFR FCC Part 15 Subpart C
ANSI C63.10:2013

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.
Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2018. 01. 19

Reviewed by: (Sabrina Wang/Administrator)

Approved by: (Ben Cheng/Manager)

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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2018. 01. 19	Original Report	EM-F170253

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2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	**N/A, Note**
15.209/15.231(b)	Radiated Spurious Emission and Fundamental Frequency	**PASS**
15.231(c)	Emission Bandwidth	**PASS**
15.231(a)(2)	Periodic Operated	**PASS**
15.203	Antenna Requirement	**Compliance**
Note: The EUT only employs Batteries.		

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3. GENERAL INFORMATION

3.1. Description of Application

Applicant	I-DING MEDICAL EQUIPMENT CO., LTD. No. 66, Pizitou Rd., Zuoying Dist., Kaohsiung City 81352, Taiwan (R.O.C.)
Manufacture	I-DING MEDICAL EQUIPMENT CO., LTD. 8F.-2, No.288-7, Xinya Rd., Qianzhen Dist., Kaohsiung City 806, Taiwan (R.O.C.)
Product	Enuresis Alarm
Model	UA433

3.2. Description of EUT

Test Model	UA433
Serial Number	N/A
Power Rating	DC 12V (A23 Battery)
RF Features	ASK (OOK)
Accessories	• Launcher (Transmitter) x1 • Alarm x1 • Sensor x1
Date of Receipt	2017. 01. 10
Date of Test	2017. 05. 12

3.3. Antenna Information

None.

3.4. EUT Specifications Assessed in Current Report

Modulation	Fundamental Range (MHz)	Channel Number
ASK (OOK)	433.91	1

3.5. Description of Key Components

None.

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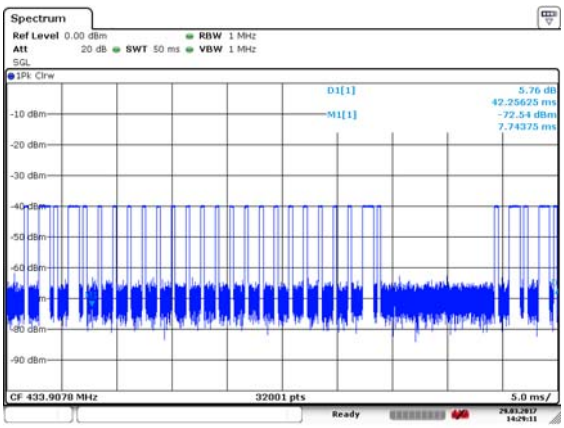
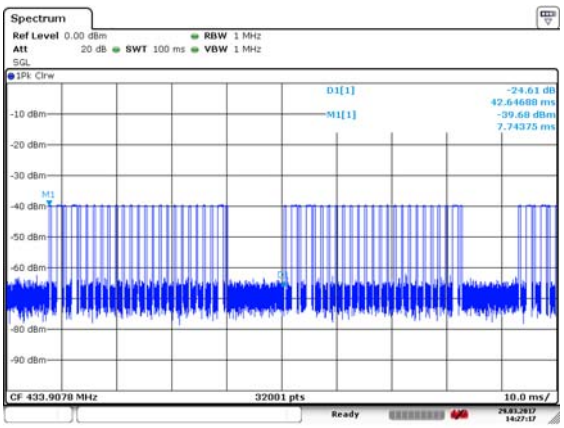
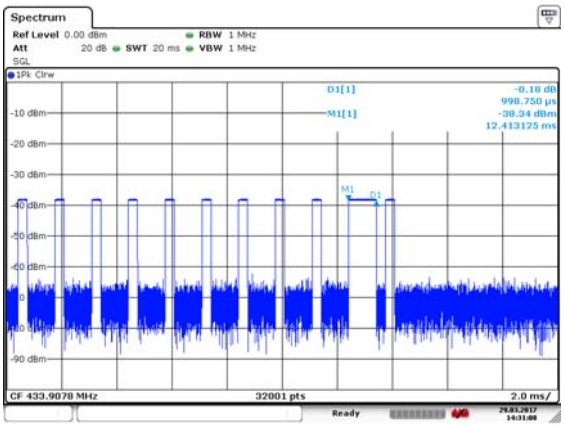
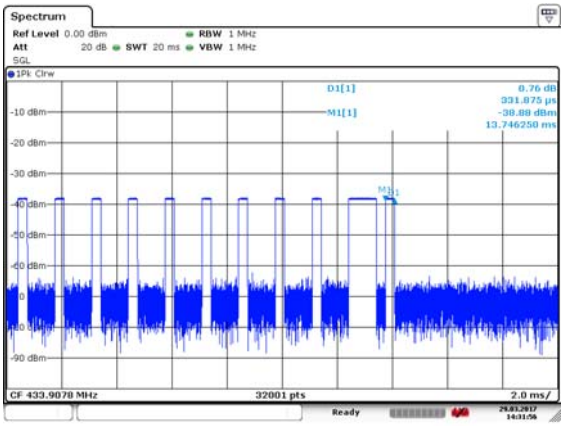
3.6. Test Configuration

Duty Cycle

TX_{on}	TX_{on+off}	Duty Cycle Factor (dB)
(0.99875*3)+(0.331875*22)= 10.30	42.65	-12.34

TX_{on}	TX_{on+off}
	
	
	

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Item	Test Frequency
Radiated Spurious Emission and Fundamental Frequency	433.91MHz
Emission Bandwidth	433.91MHz
Periodic Operated	433.91MHz

Note 1:
☐ Mobile Device:.
■ Portable Device, and 3 axis were assessed, and the worst axis was Lie.
■ Lie ☐ Side ☐ Stand

3.7. Tested Supporting System List

None.

3.8. Setup Configuration

3.8.1. EUT Configuration for Radiated Emission

3.8.2. EUT Configuration for RF Conducted Test Items

3.9. Operating Condition of EUT

To Set EUT on RF function under continues transmitting.

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3.10.Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2005 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724 (3) FCC OET Designation No. TW1004 & TW1090 & TW1724
Test Facilities	(1) Semi-Anechoic Chamber (IC Test Site Registration No.: 5183B-1) (2) Fully Anechoic Chamber (IC Test Site Registration No.: 5183B-4)

3.11.Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Radiation Test (Distance: 3m)	9kHz~30MHz	± 0.5dB
	30MHz~1000MHz	± 3.68dB
	Above 1GHz	± 5.82dB

Remark：Uncertainty = $ku_c(y)$

Test Item	Uncertainty
Emission Bandwidth (20dB)	± 0.2kHz
Periodic Operated	± 0.05s

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4. MEASUREMENT EQUIPMENT LIST

4.1. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2017. 09. 13	1 Year
2.	Spectrum Analyzer	Agilent	N9010A-526	MY52220368	2017. 11. 08	1 Year
3.	Test Receiver	R & S	ESCS30	100338	2017. 06. 19	1 Year
4.	Amplifier	HP	8447D	2944A06305	2017. 02. 16	1 Year
5.	Amplifier	Sonoma	310N	187161	2017. 06. 08	1 Year
6.	Loop Antenna	R & S	HFH2-Z2	891847/27	2016. 12. 23	1 Year
7.	Bilog Antenna	TESEQ	CBL6112D	33821	2017. 01. 21	1 Year
8.	Horn Antenna	ETS-Lindgren	3117	00135902	2017. 03. 08	1 Year
9.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2017. 04. 21	1 Year
10.	Digital Thermo-Hygro Meter	EVERY DAY	E-512	RF-02	2017. 04. 21	1 Year
11.	Test Software	Audix	e3	V.6.1206197	N.C.R.	N.C.R.
12.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.2. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
1.	Spectrum Analyzer	R&S	FSV30	101181	2017. 07. 10	1 Year
2.	Wide Band Antenna	Diamond	RH799	N/A	N.C.R	N.C.R
3.	Digital Thermo-Hygro Meter	Datronn	KT-905	RF	2017. 04. 21	1 Year

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5. CONDUCTED EMISSION

【The EUT only employs Batteries power for operation, no conductive emission limits are required according to FCC Part 15 Section §15.207】

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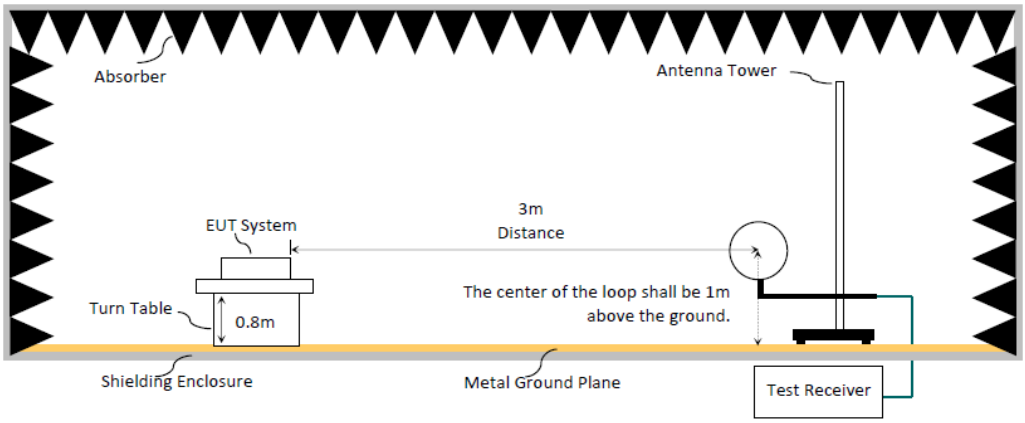
6. RADIATED SPURIOUS EMISSION

6.1. Block Diagram of Test Setup

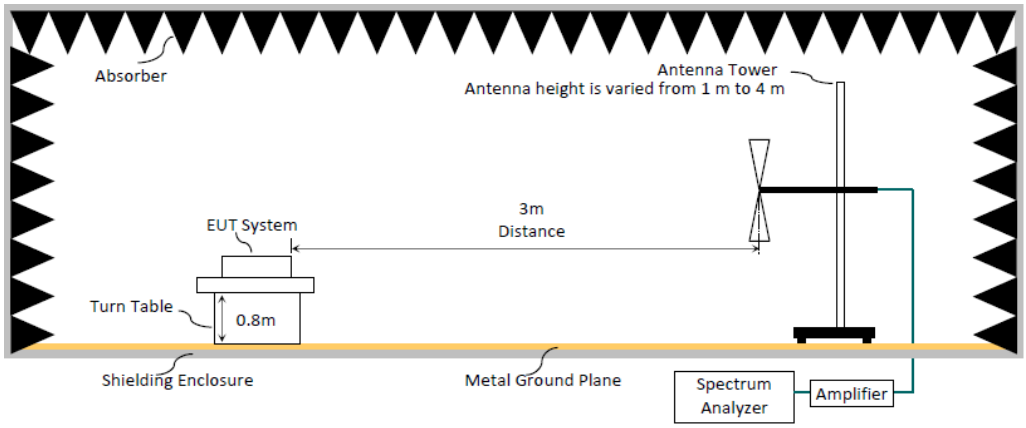
6.1.1. Block Diagram of EUT

Indicated as section 3.8

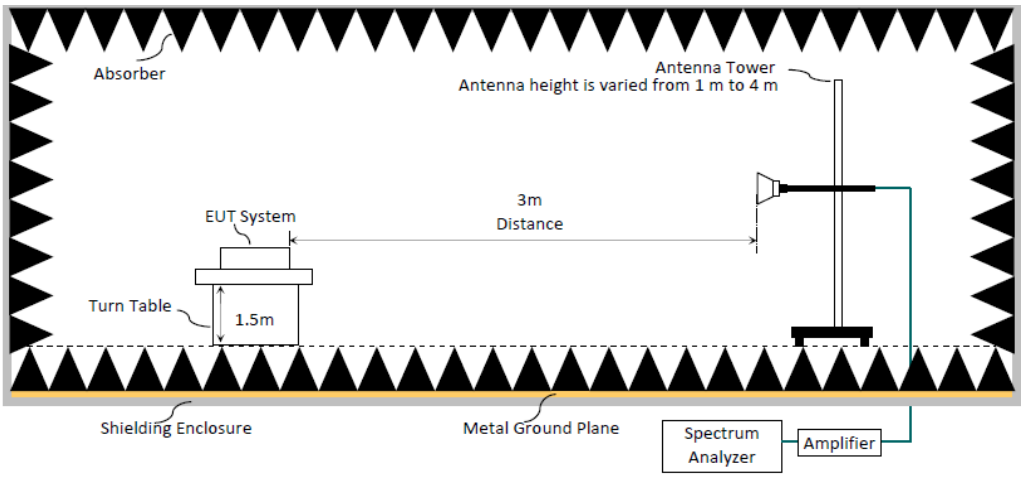
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30MHz-1000MHz



6.1.4. Setup Diagram for above 1GHz



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6.2. Radiated Emission Limits

6.2.1. General Limit

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205 must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance (m)	Limits	
		dBμV/m	μV/m
0.009 - 0.490	300	67.6	2400/kHz
0.490 - 1.705	30	87.6	24000/kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark：(1) dBμV/m = 20 log (μV/m)
(2) The tighter limit applies to the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) Fundamental and emission fall within operation band are exempted from this section.
(5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

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6.2.2. Limite for Fundamental Frequency

In addition to the provisions of §15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	[1]1,250 to 3,750	[1]125 to 375
174-260	3,750	375
260-470	[1]3,750 to 12,500	[1]375 to 1,250
Above 470	12,500	1,250
[1]:Linear Interpolations		

Remark：(1) dBμV/m = 20 log (μV/m)
(2) The tighter limit applies to the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) Where limit of Fundamental Freq. is calculated by:
41.6667x433.91-7083.3333= 10996.681164μV/m = 80.83dBμV/m
(5) The limits in this table are based on CFR 47 Part 15.231(b).

6.3. Test Procedure

Frequency Range 9kHz~30MHz:
The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level.
In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

(1) RBW = 9kHz with peak and average detector.
(2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ above 1GHz to 10th harmonic:
The EUT setup on the turn find table which has 80 cm (for 30-1000 MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

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Frequency below 1 GHz:
Spectrum Analyzer is used for pre-testing with following setting:
(1)RBW = 120KHz
(2)VBW ≥ 3 x RBW.
(3)Detector = Peak.
(4)Sweep time = auto.
(5)Trace mode = max hold.
(6)Allow sweeps to continue until the trace stabilizes.
(7)When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required. Otherwise using Q.P. for finally measurement.

Frequency above 1GHz to 10th harmonic:
Peak Detector:
(1)RBW = 1MHz
(2)VBW ≥ 3 x RBW.
(3)Detector = Peak.
(4)Sweep time = auto.
(5)Trace mode = max hold.
(6)Allow sweeps to continue until the trace stabilizes.
(7)When peak-detected value is lower than limit that the measurement using the average detector is not required. Otherwise using average detector for finally measurement.

Average Detector:
☐**Option 1:**
(1)RBW = 1MHz
(2)VBW ≥ 1/ T.
(3)Detector = Peak.
(4)Sweep time = auto.
(5)Trace mode = max hold.
(6)Allow sweeps to continue until the trace stabilizes.
■**Option 2:**
Average Emission Level= Peak Emission Level+ D.C.C.F.

6.4. Measurement Result Explanation

■Peak Emission Level=Antenna Factor + Cable Loss + Meter Reading
☐Average Emission Level l=Antenna Factor + Cable Loss + Meter Reading
■Average Emission Level= Peak Emission Level+ DCCF
Duty Cycle Correction Factor (DCCF)= 20log (TX_{on}/TX_{on+off}) presented in section 3.6
☐ERP= Peak Emission Level-95.2dB-2.14dB

6.5. Test Results

Please refer to Appendix A.

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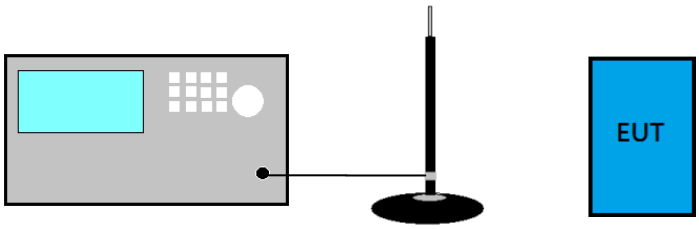
7. EMISSION BANDWIDTH MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The bandwidth of emission shall be no wider than 0.25% of the center frequency for device operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

7.3. Test Procedure

(1) Set RBW close to 1-5 % of OBW.
(2) Set VBW≥RBW.
(3) Detector = Peak.
(4) Trace mode = max hold.
(5) Sweep = auto couple.
(6) Allow the trace to stabilize.
(7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

7.4. Test Results

Please refer to Appendix A

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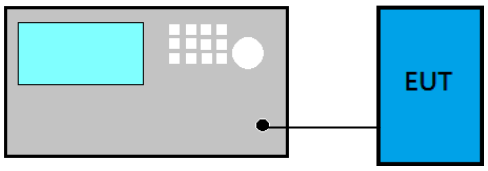
8. PERIODIC OPERATED MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. Specification Limits

The operation of this device is automatically operated transmitter that is automatically shall cease transmission within 5 seconds after activation.

8.3. Test Procedure

(1) Span = zero
(2) RBW ≥ 100kHz
(3) VBW≥ RBW
(4) Sweep = 5s
(5) Detector function = peak
(6) Trace = single sweep

8.4. Test Results

Please refer to Appendix A

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9. DEVIATION TO TEST SPECIFICATIONS

【NONE】

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APPDNDIX A

TEST DATA AND PLOTS

(Model: UA433)

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A.1 RADIATED SPURIOUS EMISSION

Test Date	2017/05/12	Temp./Hum.	20℃/53%
Test Frequency	TX 433.91MHz	Test Voltage	DC 12V

A.1.1 Emissions Applied to General Requirement

A.1.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.1.1.2 Frequency Below 1 GHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
101.78	17.38	2.29	4.73	24.40	43.50	19.10	Peak
280.26	19.45	4.12	2.02	25.59	46.00	20.41	Peak
559.62	24.35	6.62	1.56	32.53	46.00	13.47	Peak
727.43	25.92	7.23	1.36	34.51	46.00	11.49	Peak
868.08	26.97	8.00	2.54	37.51	46.00	8.49	Peak
956.35	27.54	8.54	2.07	38.15	46.00	7.85	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
30.97	24.28	1.22	3.01	28.51	40.00	11.49	Peak
101.78	17.38	2.29	4.75	24.42	43.50	19.08	Peak
326.82	20.66	4.68	2.56	27.90	46.00	18.10	Peak
645.95	25.18	6.91	1.70	33.79	46.00	12.21	Peak
818.61	26.66	7.72	1.50	35.88	46.00	10.12	Peak
962.17	27.58	8.59	2.28	38.45	54.00	15.55	Peak

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New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

A.1.1.3 Frequency Above 1 GHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1302.00	28.04	4.21	11.27	43.52	74.00	30.48	Peak
1756.00	29.80	4.89	15.13	49.82	74.00	24.18	Peak
2170.00	31.84	5.71	20.83	58.38	74.00	15.62	Peak
2604.00	32.42	6.35	17.61	56.38	74.00	17.62	Peak
3038.00	32.89	6.85	16.83	56.57	74.00	17.43	Peak
3472.00	32.81	7.48	4.22	44.51	74.00	29.49	Peak
3906.00	33.21	7.89	8.73	49.83	74.00	24.17	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1302.00	43.52	-12.34	31.18	54.00	22.82	Average
1756.00	49.82	-12.34	37.48	54.00	16.52	Average
2170.00	58.38	-12.34	46.04	54.00	7.96	Average
2604.00	56.38	-12.34	44.04	54.00	9.96	Average
3038.00	56.57	-12.34	44.23	54.00	9.77	Average
3472.00	44.51	-12.34	32.17	54.00	21.83	Average
3906.00	49.83	-12.34	37.49	54.00	16.51	Average

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1758.00	29.92	4.89	9.19	44.00	74.00	30.00	Peak
2170.00	31.84	5.71	10.87	48.42	74.00	25.58	Peak
2604.00	32.42	6.35	5.85	44.62	74.00	29.38	Peak
3038.00	32.89	6.85	6.51	46.25	74.00	27.75	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1758.00	44.00	-12.34	31.66	54.00	22.34	Average
2170.00	48.42	-12.34	36.08	54.00	17.92	Average
2604.00	44.62	-12.34	32.28	54.00	21.72	Average
3038.00	46.25	-12.34	33.91	54.00	20.09	Average

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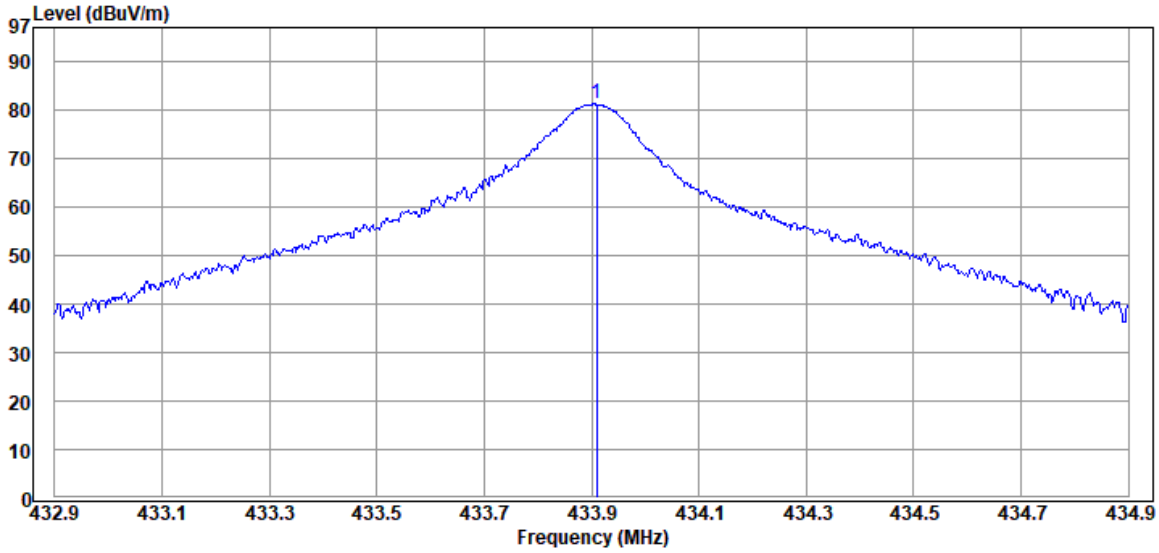
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

A.1.2 Fundamental Frequency



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
433.91	23.12	5.87	52.18	81.17	100.83	19.66	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
433.91	81.17	-12.34	68.83	80.83	12.00	Average

Remark: Horizontal is the strongest polarization and peak value has complied with average limit, so vertical won't be listed in test report.

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New Taipei City244, Taiwan

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Fax: +886 2 26099303

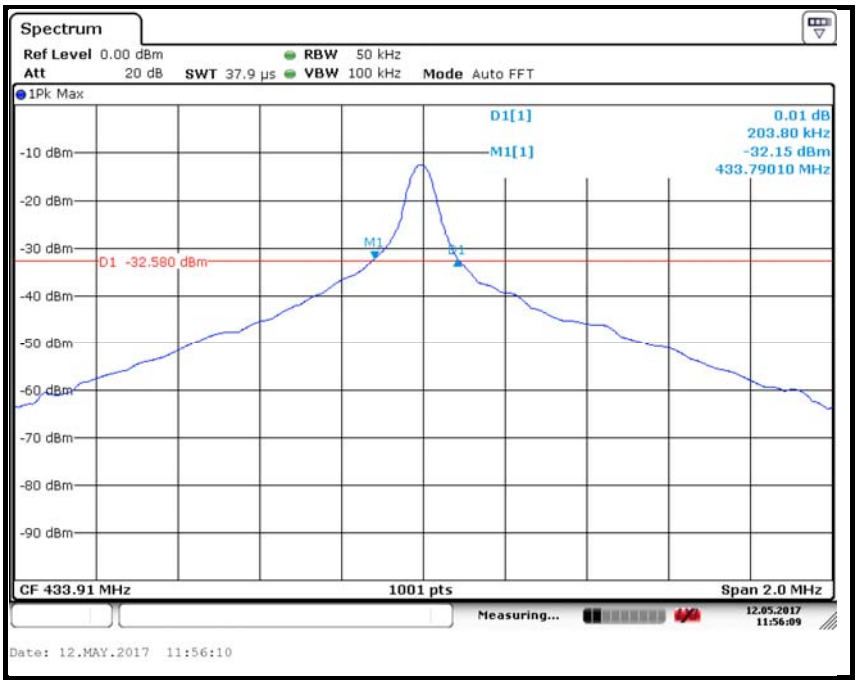
A.2 EMISSION BANDWIDTH MEASUREMENT

Test Date	2017/05/12	Temp./Hum.	20℃/53%
Test Frequency	TX 433.91MHz	Test Voltage	DC 12V

A.2.1 Emission Bandwidth

Center Frequency (MHz)	Occupied Bandwidth (MHz)	Tolerance (%)	Limit (%)
433.91	0.20380	0.047	0.25

A.2.2 Measurement Plots



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Fax: +886 2 26099303

A.3 PERIODIC OPERATED MEASUREMENT

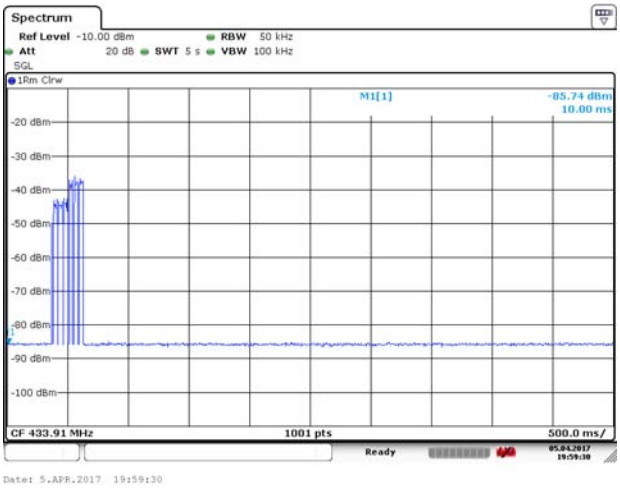
Test Date	2017/05/12	Temp./Hum.	20℃/53%
Test Frequency	TX 433.91MHz	Test Voltage	DC 12V

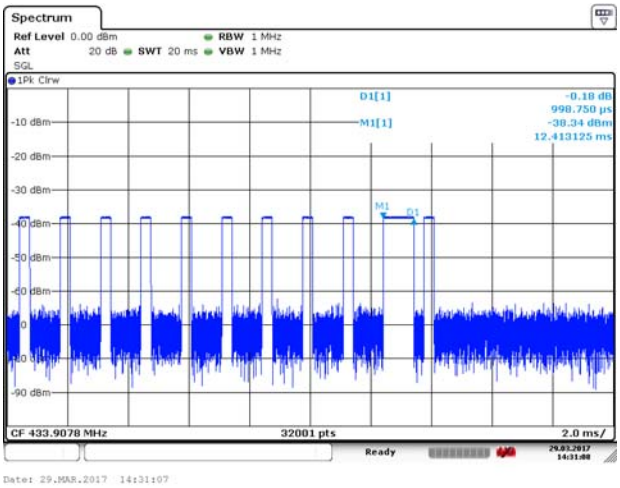
A.3.1 Periodic Operated

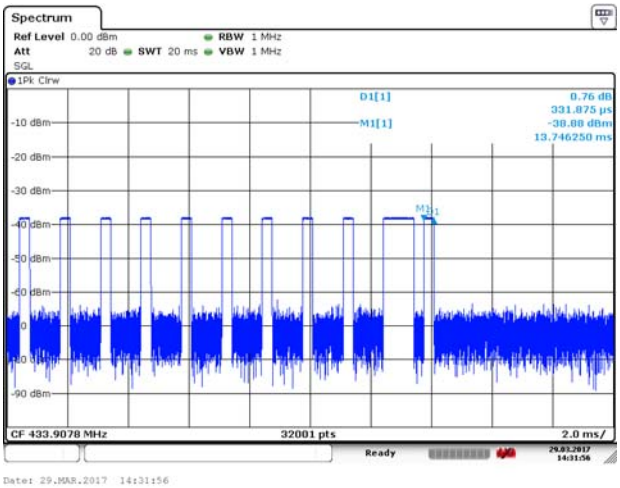
Center Frequency (MHz)	Time (Sec.)	Limit (Sec.)
433.91	0.010	< 5

A.3.2 Measurement Plots

TX 433.91MHz







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APPDNDIX B

TEST PHOTOGRAPHS

(Model: UA433)

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