

FCC TEST REPORT
for
Miotta Limited

Outdoor Strobe Siren

Model No.: OSR1300

FCC ID: 2ASKQ-OSR1300

Prepared for : Miotta Limited
Address : 5/F, SPA Ctr, 53-55 Lockhart Road, Wanchai, Hong Kong.

Prepared by : Shenzhen Accurate Technology Co., Ltd.
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Report No. : ATE20190125
Date of Test : Feb. 15-20, 2019
Date of Report : Feb. 22, 2019

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Test Report

Applicant : Miotta Limited
 Address : 5/F, SPA Ctr, 53-55 Lockhart Road, Wanchai, Hong Kong.
 Manufacturer : Maxkin Mobile Technology Co., Ltd.
 Address : #301, 3F, NO.26 BLOCK 1, SHUIDOU LAOWEI YOUSONG
 COMMUNITY, LONGHUA DIST., SHENZHEN, CHINA.
 Product : Outdoor Strobe Siren
 Model No. : OSR1300
 Trade name : N/A

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart B Class B
ANSI C63.4: 2014**

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test : Feb. 15, 2019--Feb. 20, 2019
 Date of Report : Feb. 22, 2019

Prepared by : _____
 (Timothy Ng, Engineer)

Approved & Authorized Signer : _____
 (Sean Liu, Manager)



1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Power Line Conducted Emission	FCC Part 15 Subpart B	Pass
Radiated Emission	FCC Part 15 Subpart B	Pass

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product	:	Outdoor Strobe Siren
Model No.	:	OSR1300
Rating	:	DC 12V
Adapter information	:	MODEL: ICP12-120-1000D INPUT: AC 100-240V 50/60Hz 0.3A OUTPUT: DC 12V 1000mA
Trade Name	:	N/A
Remark(s)	:	The EUT highest operating frequency provided by Manufacturer is less than 433.92MHz, the radiated Emission measurement shall be made up to 5GHz.
Applicant	:	Miotta Limited
Address	:	5/F, SPA Ctr, 53-55 Lockhart Road, Wanchai, Hong Kong
Manufacturer	:	Maxkin Mobile Technology Co., Ltd.
Address	:	#301, 3F, NO.26 BLOCK 1, SHUIDOU LAOWEI YOUSONG COMMUNITY, LONGHUA DIST., SHENZHEN, CHINA.
Date of sample receiver	:	Feb. 01, 2019
Date of Test	:	Feb. 15, 2019--Feb. 20, 2019

2.2. Test mode description

Test mode : 433.92MHz RX

2.3. Accessory and Auxiliary Equipment

Transmitter(433.92MHz)

2.4. Description of Test Facility

EMC Lab : Recognition of accreditation by Federal Communications Commission (FCC)
The Designation Number is CN1189
The Registration Number is 708358

Listed by Innovation, Science and Economic Development Canada (ISED)
The Registration Number is 5077A-2

Accredited by China National Accreditation Service for Conformity Assessment (CNAS)
The Registration Number is CNAS L3193

Accredited by American Association for Laboratory Accreditation (A2LA)
The Certificate Number is 4297.01

Name of Firm : Shenzhen Accurate Technology Co., Ltd.
Site Location : 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

2.5. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Power Disturbance Expanded Uncertainty = 2.92 dB, k=2

Radiated emission expanded uncertainty (9kHz-30MHz) = 3.08dB, k=2

Radiated emission expanded uncertainty (30MHz-1000MHz) = 4.42dB, k=2

Radiated emission expanded uncertainty (Above 1GHz) = 4.06dB, k=2

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Radiated Emission Measurement

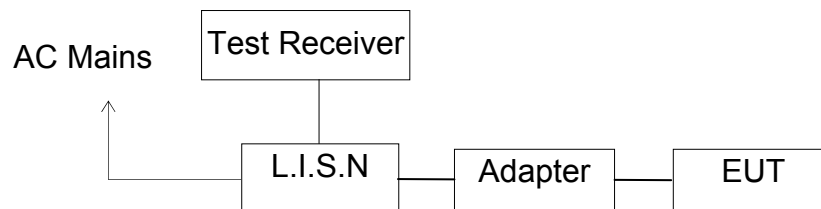
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan.05, 2019	1 Year
2.	Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan.05, 2019	1 Year
3.	Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan.05, 2019	1 Year
4.	Test Receiver	Rohde& Schwarz	ESPI	100396/003	Jan.05, 2019	1 Year
5.	Test Receiver	Rohde& Schwarz	ESPI	101526/003	Jan.05, 2019	1 Year
6.	Test Receiver	Rohde& Schwarz	ESR	101817	Jan.05, 2019	1 Year
7.	Bilog Antenna	Schwarzbeck	VULB9163	9163-194	Jan.05, 2019	1 Year
8.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.05, 2019	1 Year
9.	Log.-Per.Antenna	Schwarzbeck	VUSLP 9111B	9111B-074	Jan.05, 2019	1 Year
10.	Biconical Broad Band Antenna	Schwarzbeck	VHBB 9124+BBA 9106	9124-617	Jan.05, 2019	1 Year
11.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.05, 2019	1 Year
12.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.05, 2019	1 Year
13.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan.05, 2019	1 Year
14.	Vertical Active Monopole Antenna	Schwarzbeck	VAMP 9243	9243-370	Jan.05, 2019	1 Year
15.	RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan.05, 2019	1 Year
16.	Pre-Amplifier	Agilent	8447D	294A10619	Jan.05, 2019	1 Year
17.	Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	Jan.05, 2019	1 Year
18.	50 Coaxial Switch	Anritsu Corp	MP59B	6200237248	Jan.05, 2019	1 Year
19.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.05, 2019	1 Year
20.	RF Coaxial Cable	Schwarzbeck	N-5m	No.1	Jan.05, 2019	1 Year
21.	RF Coaxial Cable	Schwarzbeck	N-1m	No.6	Jan.05, 2019	1 Year
22.	RF Coaxial Cable	Schwarzbeck	N-1m	No.7	Jan.05, 2019	1 Year
23.	RF Coaxial Cable	SUHNER	N-3m	No.8	Jan.05, 2019	1 Year
24.	RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	Jan.05, 2019	1 Year
25.	RF Coaxial Cable	SUHNER	N-6m	No.10	Jan.05, 2019	1 Year
26.	RF Coaxial Cable	RESENBERGER	N-12m	No.11	Jan.05, 2019	1 Year
27.	RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	Jan.05, 2019	1 Year
28.	RF Coaxial Cable	SUHNER	N-2m	No.13	Jan.05, 2019	1 Year
29.	RF Coaxial Cable	SUHNER	N-0.5m	No.15	Jan.05, 2019	1 Year
30.	RF Coaxial Cable	SUHNER	N-2m	No.16	Jan.05, 2019	1 Year
31.	RF Coaxial Cable	RESENBERGER	N-6m	No.17	Jan.05, 2019	1 Year
Radiated Emission Measurement Software: EZ_EMV V1.1.4.2						

3.2. The Equipment Used to Measure Conducted Disturbance (L.I.S.N)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.05, 2019	1 Year
2.	Test Receiver	Rohde & Schwarz	ESPI3	100396/003	Jan.05, 2019	1 Year
3.	Test Receiver	Rohde & Schwarz	ESPI3	101526/003	Jan.05, 2019	1 Year
4.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.05, 2019	1 Year
5.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100305	Jan.05, 2019	1 Year
6.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	Jan.05, 2019	1 Year
7.	L.I.S.N.	Rohde & Schwarz	ESH3-Z6	100132	Jan.05, 2019	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Jan.05, 2019	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100312	Jan.05, 2019	1 Year
10.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	Jan.05, 2019	1 Year
11.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283936	Jan.05, 2019	1 Year
12.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	Jan.05, 2019	1 Year
13.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.05, 2019	1 Year
14.	VOLTAGE PROBE	Schwarzbeck	TK9416	N/A	Jan.05, 2019	1 Year
15.	RF CURRENT PROBE	Rohde & Schwarz	EZ-17	100048	Jan.05, 2019	1 Year
16.	8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	Jan.05, 2019	1 Year
17.	RF Coaxial Cable	SUHNER	N-2m	No.2	Jan.05, 2019	1 Year
18.	RF Coaxial Cable	SUHNER	N-2m	No.3	Jan.05, 2019	1 Year
19.	RF Coaxial Cable	SUHNER	N-2m	No.14	Jan.05, 2019	1 Year
Conducted Emission Measurement Software: ES-K1 V1.71						

4. POWER LINE CONDUCTED MEASUREMENT

4.1. Block Diagram of Test Setup



(EUT: Outdoor Strobe Siren)

4.2. Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

NOTE1: The lower limit shall apply at the transition frequencies.
 NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

4.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 4.1.
- 4.4.2. Turn on the power of all equipment.
- 4.4.3. Let the EUT work in test mode and measure it.

4.5.DATA SAMPLE

Frequency (MHz)	Quasi Peak Level (dB μ V)	Average Level (dB μ V)	Transducer value (dB)	QuasiPeak Result (dB μ V)	Average Result (dB μ V)	Quasi Peak Limit (dB μ V)	Average Limit (dB μ V)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	29.4	18.3	11.1	40.5	29.4	56.0	56.0	15.5	16.6	Pass

Transducer value = Insertion loss of LISN + Cable Loss
 Result = Quasi-peak Level/Average Level + Transducer value
 Limit = Limit stated in standard

Calculation Formula:

Margin = Limit – Reading level value – Transducer value

4.6.Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at ATC is +2.23dB.

4.7.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and 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 lines 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 ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

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

4.8. Power Line Conducted Emission Measurement Results

PASS.

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

Test mode : 433.92MHz RX								
Test Voltage: 120V/60Hz								
MEASUREMENT RESULT: "F-0125-2_fin"								
2019-2-15 10:04								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.150000	50.50	10.8	66	15.5	QP	L1	GND	
0.375000	30.00	10.9	58	28.4	QP	L1	GND	
1.428000	23.20	11.2	56	32.8	QP	L1	GND	
4.105500	21.40	11.4	56	34.6	QP	L1	GND	
12.376500	19.20	11.6	60	40.8	QP	L1	GND	
22.339500	14.80	11.7	60	45.2	QP	L1	GND	
MEASUREMENT RESULT: "F-0125-2_fin2"								
2019-2-15 10:04								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.150000	45.50	10.8	56	10.5	AV	L1	GND	
0.370500	21.50	10.9	49	27.0	AV	L1	GND	
1.482000	17.10	11.2	46	28.9	AV	L1	GND	
2.211000	14.30	11.3	46	31.7	AV	L1	GND	
6.396000	6.80	11.5	50	43.2	AV	L1	GND	
22.339500	-2.90	11.7	50	52.9	AV	L1	GND	
MEASUREMENT RESULT: "F-0125-1_fin"								
2019-2-15 10:00								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.150000	40.50	10.8	66	25.5	QP	N	GND	
0.375000	33.30	10.9	58	25.1	QP	N	GND	
0.982500	37.50	11.1	56	18.5	QP	N	GND	
4.816500	23.50	11.4	56	32.5	QP	N	GND	
8.961000	20.20	11.5	60	39.8	QP	N	GND	
14.586000	27.70	11.6	60	32.3	QP	N	GND	
MEASUREMENT RESULT: "F-0125-1_fin2"								
2019-2-15 10:00								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.357000	23.70	10.9	49	25.1	AV	N	GND	
0.370500	23.60	10.9	49	24.9	AV	N	GND	
0.982500	20.30	11.1	46	25.7	AV	N	GND	
2.184000	16.20	11.3	46	29.8	AV	N	GND	
8.961000	-1.20	11.5	50	51.2	AV	N	GND	
26.020500	-0.80	11.8	50	50.8	AV	N	GND	

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO., LTD

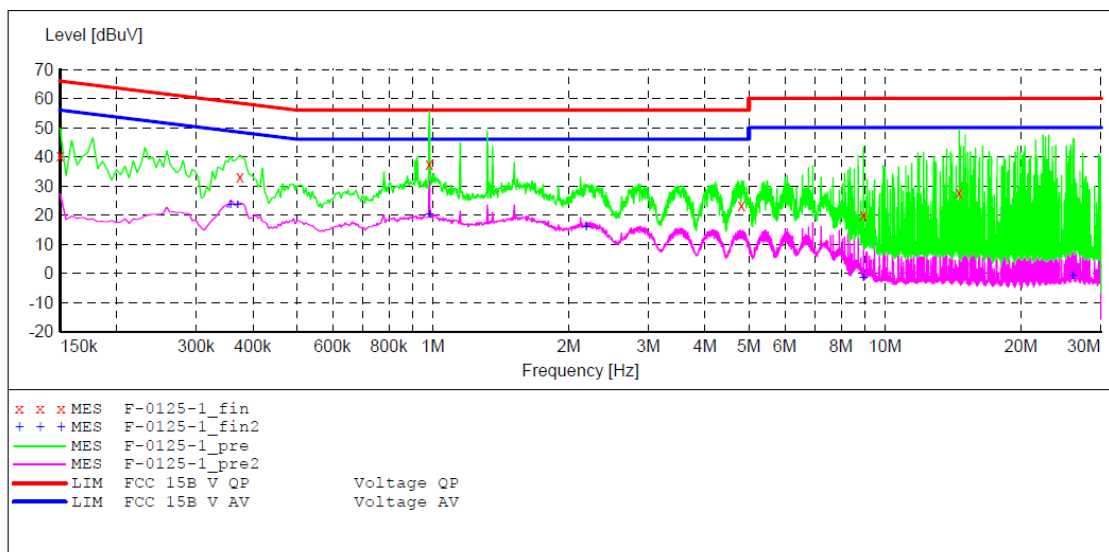
CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Outdoor Strobe Siren M/N:OSR1300
 Manufacturer: Maxkin Mobile Technology Co.,Ltd
 Operating Condition: 433.92MHz RX
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: N 120V/60Hz
 Comment: Report NO.:ATE20190125
 Start of Test: 2019-2-15 / 9:56:38

SCAN TABLE: "V 150K-30MHz fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008

Short Description: SUB STD VTERM2 1.70
 Average



MEASUREMENT RESULT: "F-0125-1_fin"

2019-2-15 10:00

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	40.50	10.8	66	25.5	QP	N	GND
0.375000	33.30	10.9	58	25.1	QP	N	GND
0.982500	37.50	11.1	56	18.5	QP	N	GND
4.816500	23.50	11.4	56	32.5	QP	N	GND
8.961000	20.20	11.5	60	39.8	QP	N	GND
14.586000	27.70	11.6	60	32.3	QP	N	GND

MEASUREMENT RESULT: "F-0125-1_fin2"

2019-2-15 10:00

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.357000	23.70	10.9	49	25.1	AV	N	GND
0.370500	23.60	10.9	49	24.9	AV	N	GND
0.982500	20.30	11.1	46	25.7	AV	N	GND
2.184000	16.20	11.3	46	29.8	AV	N	GND
8.961000	-1.20	11.5	50	51.2	AV	N	GND
26.020500	-0.80	11.8	50	50.8	AV	N	GND

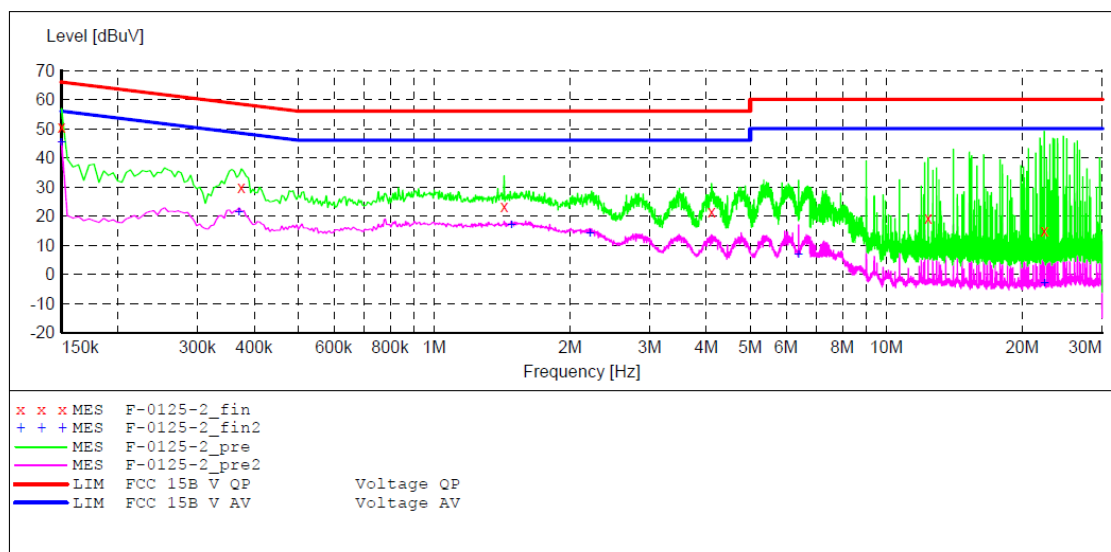
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Outdoor Strobe Siren M/N:OSR1300
 Manufacturer: Maxkin Mobile Technology Co.,Ltd
 Operating Condition: 433.92MHz RX
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: L 120V/60Hz
 Comment: Report NO.:ATE20190125
 Start of Test: 2019-2-15 / 10:01:49

SCAN TABLE: "V 150K-30MHz fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			



MEASUREMENT RESULT: "F-0125-2_fin"

2019-2-15 10:04

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	50.50	10.8	66	15.5	QP	L1	GND
0.375000	30.00	10.9	58	28.4	QP	L1	GND
1.428000	23.20	11.2	56	32.8	QP	L1	GND
4.105500	21.40	11.4	56	34.6	QP	L1	GND
12.376500	19.20	11.6	60	40.8	QP	L1	GND
22.339500	14.80	11.7	60	45.2	QP	L1	GND

MEASUREMENT RESULT: "F-0125-2_fin2"

2019-2-15 10:04

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	45.50	10.8	56	10.5	AV	L1	GND
0.370500	21.50	10.9	49	27.0	AV	L1	GND
1.482000	17.10	11.2	46	28.9	AV	L1	GND
2.211000	14.30	11.3	46	31.7	AV	L1	GND
6.396000	6.80	11.5	50	43.2	AV	L1	GND
22.339500	-2.90	11.7	50	52.9	AV	L1	GND

5. RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test

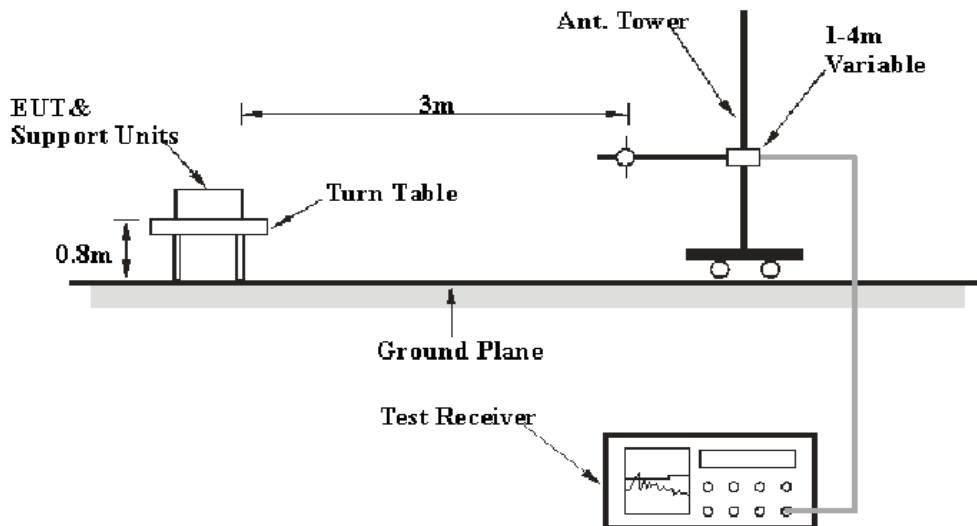
5.1.1. Block diagram of connection between the EUT and simulators



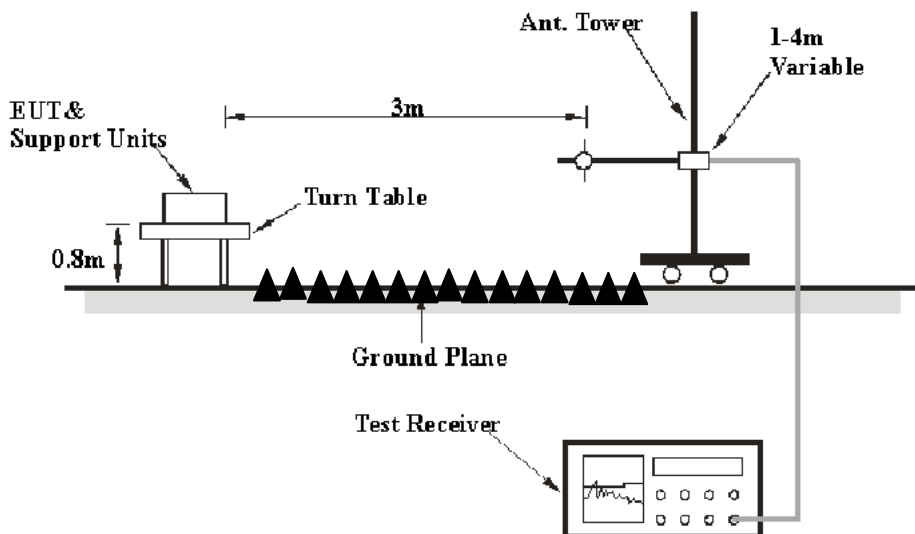
(EUT: Outdoor Strobe Siren)

5.1.2. Block diagram of test setup (In chamber)

Below 1GHz:



Above 1GHz:



5.2. Radiated Emission Limit (Class B)

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency MHz	Distance Meters	Field Strengths Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V/m})$
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

Remark:

(1) Emission level $\text{dB}(\mu\text{V}) = 20 \log$ Emission level $\mu\text{V/m}$.

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.

5.3. Manufacturer

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1. Outdoor Strobe Siren (EUT)

Model Number: OSR1300

Manufacturer: Maxkin Mobile Technology Co., Ltd.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in test mode and measure it.

5.5. DATA SAMPLE

Frequency (MHz)	Reading ($\text{dB}\mu\text{v}$)	Factor (dB/m)	Result ($\text{dB}\mu\text{v/m}$)	Limit ($\text{dB}\mu\text{v/m}$)	Margin (dB)	Remark
X.XX	49.83	-22.03	27.80	43.50	-15.70	QP

Frequency(MHz) = Emission frequency in MHz

Reading($\text{dB}\mu\text{v}$) = Uncorrected Analyzer/Receiver reading

Factor (dB/m)= Antenna factor + Cable Loss – Amplifier gain

Result($\text{dB}\mu\text{v/m}$) = Reading + Factor

Limit ($\text{dB}\mu\text{v/m}$)= Limit stated in standard

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E-mail: webmaster@atc-lab.com

Http://www.atc-lab.com

$$\text{Margin (dB)} = \text{Result(dB}\mu\text{v/m)} - \text{Limit (dB}\mu\text{v/m)}$$

Calculation Formula:

$$\begin{aligned} \text{Margin(dB)} &= \text{Result (dB}\mu\text{v/m)} - \text{Limit(dB}\mu\text{v/m)} \\ \text{Result(dB}\mu\text{v/m)} &= \text{Reading(dB}\mu\text{v)} + \text{Factor(dB/m)} \end{aligned}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

5.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz.

The frequency range from 9kHz to 5000MHz is checked.

Note: The EUT highest operating frequency provided by Manufacturer is 433.92MHz, the radiated emission measurement shall be made up to 5GHz.

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.

5.7.Radiated Emission Noise Measurement Result

PASS.

The frequency range from 9kHz to 5000MHz is investigated.

The radiation emissions from 9kHz-30MHz is not reported, because the test values lower than the limits of 20dB.

The spectral diagrams are attached as below.

Below 1GHz



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Job No.: FRANK2019 #434

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Outdoor Strobe Siren

Mode: RX 433.92MHz

Model: OSR1300

Manufacturer: Maxkin Mobi Technology Co., Ltd.

Polarization: Horizontal

Power Source: AC 120V/60Hz

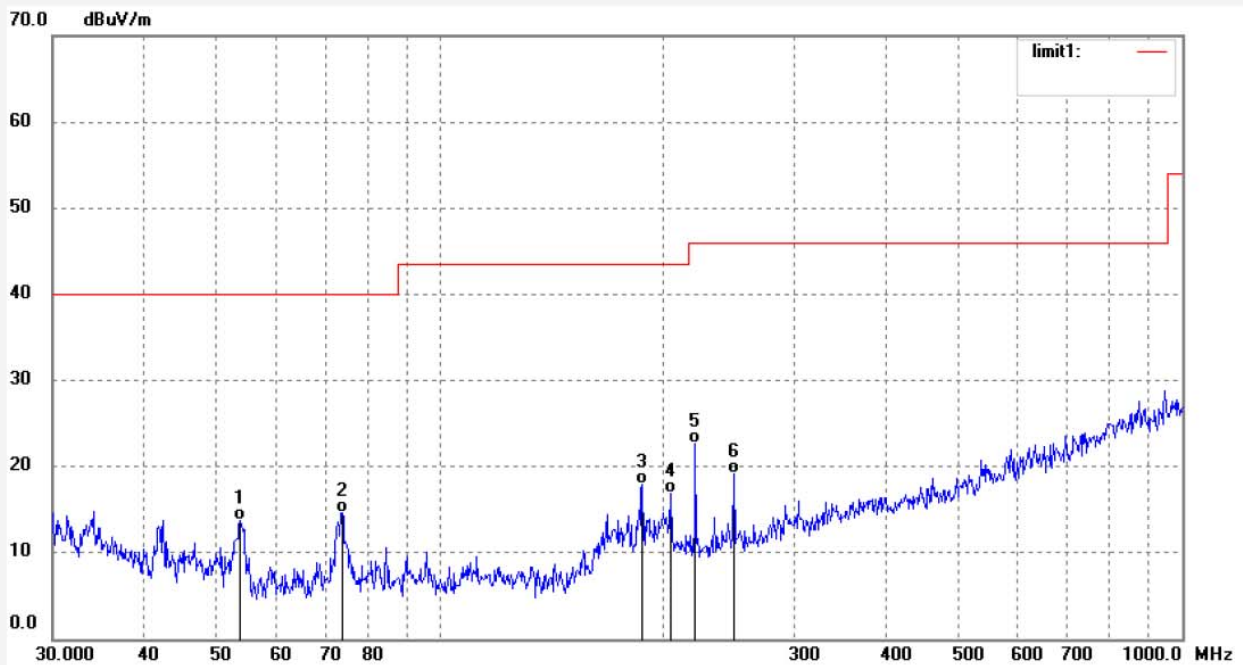
Date: 2019/02/20

Time: 14:18:29

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20190125



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	53.7558	40.53	-26.81	13.72	40.00	-26.28	QP	200	302	
2	73.7496	42.31	-27.65	14.66	40.00	-25.34	QP	200	200	
3	187.1246	43.36	-25.35	18.01	43.50	-25.49	QP	200	195	
4	204.3052	41.12	-24.18	16.94	43.50	-26.56	QP	200	66	
5	220.7240	46.75	-24.02	22.73	46.00	-23.27	QP	200	204	
6	248.7318	42.79	-23.65	19.14	46.00	-26.86	QP	200	302	

Job No.: FRANK2019 #433

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Outdoor Strobe Siren

Mode: RX 433.92MHz

Model: OSR1300

Manufacturer: Maxkin Mobi Technology Co., Ltd.

Polarization: Vertical

Power Source: AC 120V/60Hz

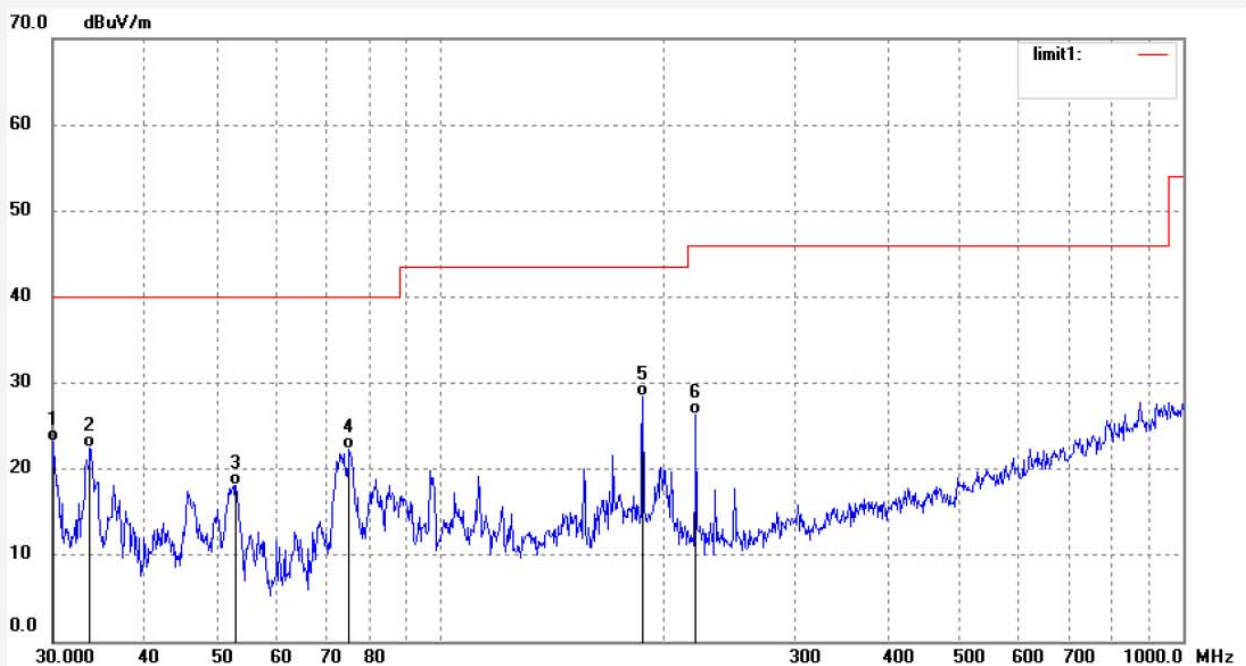
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Time: 14:17:40

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20190125



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.1055	43.42	-20.23	23.19	40.00	-16.81	QP	150	156	
2	33.6880	43.69	-21.12	22.57	40.00	-17.43	QP	150	64	
3	53.0056	44.88	-26.69	18.19	40.00	-21.81	QP	150	199	
4	75.3208	49.95	-27.68	22.27	40.00	-17.73	QP	150	21	
5	187.1246	53.87	-25.35	28.52	43.50	-14.98	QP	150	330	
6	220.7240	50.40	-24.02	26.38	46.00	-19.62	QP	150	196	

Above 1GHz



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Job No.: FRANK2019 #430

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Outdoor Strobe Siren

Mode: RX 433.92MHz

Model: OSR1300

Manufacturer: Maxkin Mobi Technology Co., Ltd.

Polarization: Horizontal

Power Source: AC 120V/60Hz

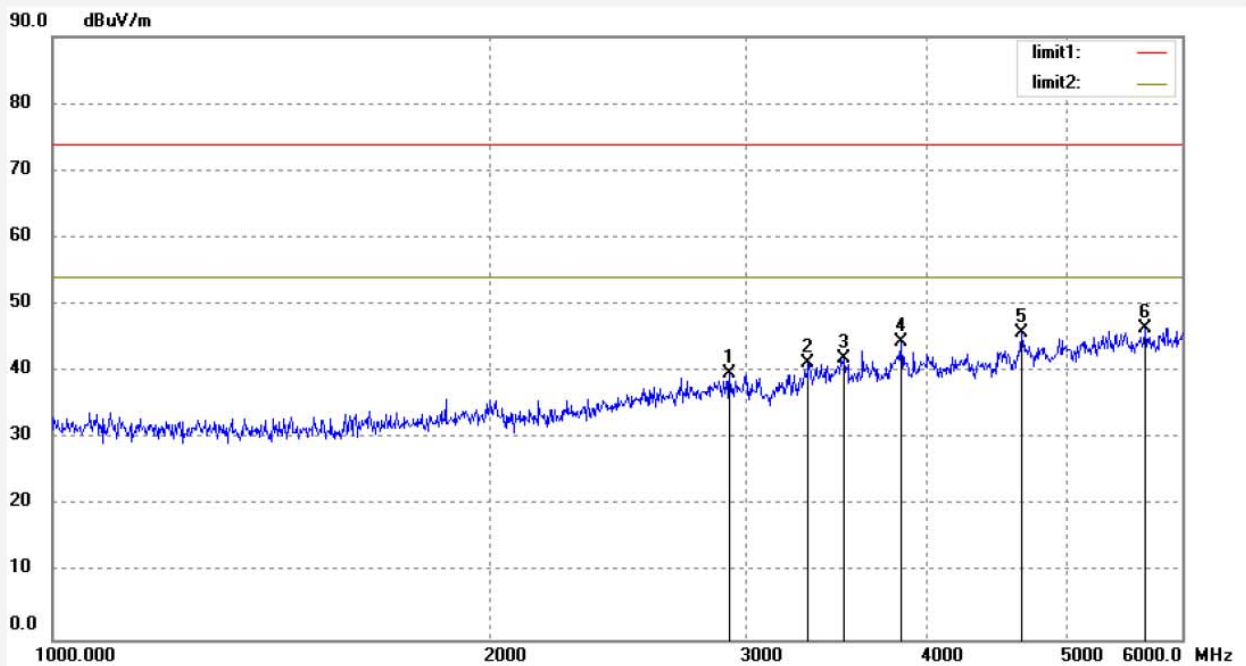
Date: 2019/02/20

Time: 14:13:43

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20190125



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2928.044	43.28	-3.58	39.70	74.00	-34.30	peak	200	119	
2	3315.844	43.49	-2.29	41.20	74.00	-32.80	peak	200	302	
3	3512.734	43.75	-1.73	42.02	74.00	-31.98	peak	250	213	
4	3844.038	45.58	-1.09	44.49	74.00	-29.51	peak	200	66	
5	4653.392	45.32	0.36	45.68	74.00	-28.32	peak	200	201	
6	5663.698	43.81	2.67	46.48	74.00	-27.52	peak	200	103	



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Job No.: FRANK2019 #431

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Outdoor Strobe Siren

Mode: RX 433.92MHz

Model: OSR1300

Manufacturer: Maxkin Mobi Technology Co., Ltd.

Polarization: Vertical

Power Source: AC 120V/60Hz

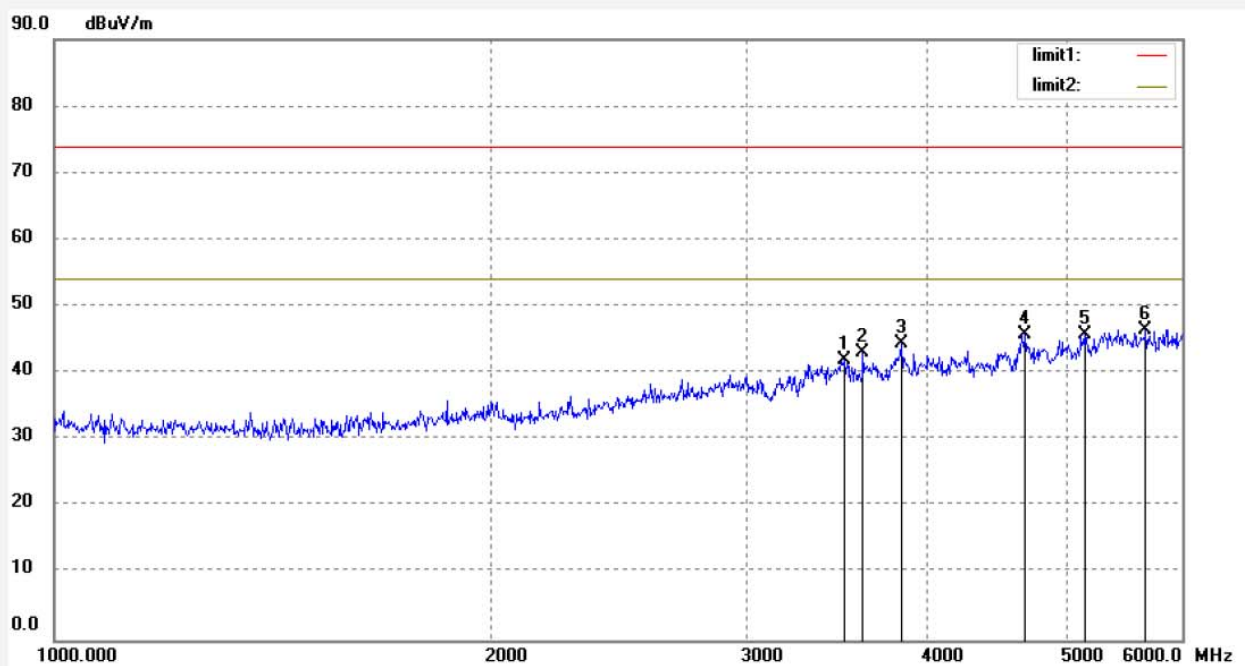
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Engineer Signature:

Distance: 3m

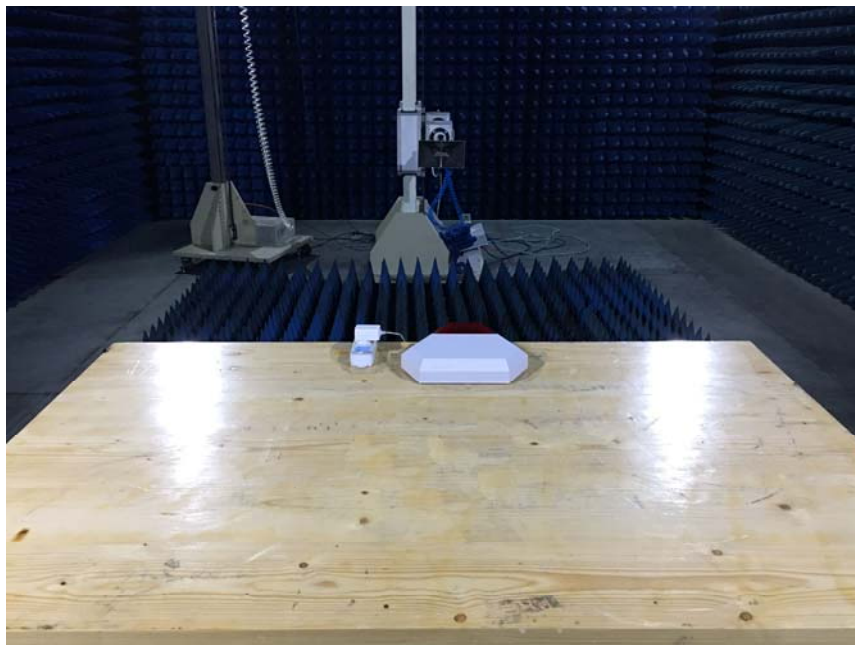
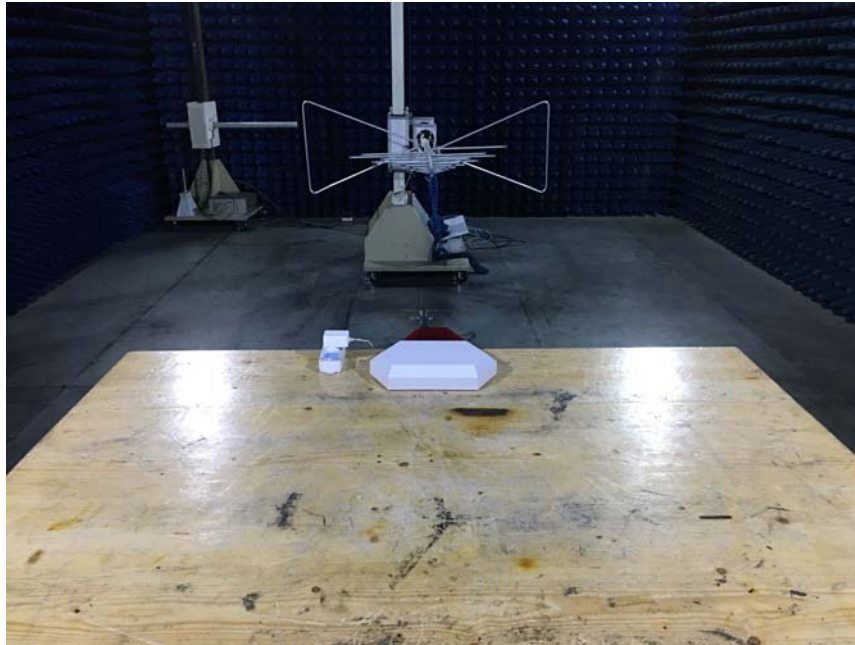
Note: Report NO.:ATE20190125



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	3512.734	43.75	-1.73	42.02	74.00	-31.98	peak	150	331	
2	3615.521	44.55	-1.53	43.02	74.00	-30.98	peak	150	216	
3	3844.038	45.58	-1.09	44.49	74.00	-29.51	peak	150	89	
4	4678.624	45.27	0.46	45.73	74.00	-28.27	peak	150	201	
5	5138.381	43.75	2.02	45.77	74.00	-28.23	peak	150	321	
6	5663.698	43.81	2.67	46.48	74.00	-27.52	peak	150	169	

6. PHOTOGRAPHS

6.1.Photos of Radiated Emission Measurement



6.2.Photos of Conducted Emission Measurement

