

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Report No.: SZEM170300160301

Fax: +86 (0) 755 2671 0594 Page: 1 of 26

## TEST REPORT

**Application No.**: SZEM1703001603CR **Applicant:** AOK Electronic Ltmited

Address of Applicant: Tianxin Industrial District, Dahou Village, Xiegang Town, Dongguan City,

Guangdong Province, China

Manufacturer: AOK Electronic Ltmited

Address of Manufacturer: Tianxin Industrial District, Dahou Village, Xiegang Town, Dongguan City,

Guangdong Province, China

Factory: AOK Electronic Ltmited

Address of Factory: Tianxin Industrial District, Dahou Village, Xiegang Town, Dongguan City,

Guangdong Province, China

**Equipment Under Test (EUT):** 

**EUT Name:** Weather Station

Model No.: AOK-202

FCC ID: 2AJOA-RSTATION

Standards: 47 CFR Part 15, Subpart C 15.231

**Date of Receipt**: 2017-03-09

**Date of Test**: 2017-04-06 to 2017-04-11

**Date of Issue**: 2017-04-18

Test Result : Pass\*



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sqs.com/en/Terms-and-Conditions.aspx">http://www.sqs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sqs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sqs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM170300160301

Page: 2 of 26

	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2017-04-18		Original		

Authorized for issue by:		
Tested By	Brir Chen	2017-04-18
	Bill Chen /Project Engineer	Date
Checked By	Eric Fu	2017-04-18
	Eric Fu /Reviewer	Date



Report No.: SZEM170300160301

Page: 3 of 26

## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.231	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Field Strength of the Fundamental Signal(15.231(e))	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.231(e)	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.231(e)	Pass
Transmit Time and Silent Period	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.231(e)	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.231(c)	Pass



Report No.: SZEM170300160301

Page: 4 of 26

### 3 Contents

		Page
1	1 COVER PAGE	1
2	2 TEST SUMMARY	3
_	2 1E51 50MMAN 1	
3	3 CONTENTS	4
4	4 GENERAL INFORMATION	5
•		
	4.1 DETAILS OF E.U.T. 4.2 DESCRIPTION OF SUPPORT UNITS	
	4.3 MEASUREMENT UNCERTAINTY	
	4.4 TEST LOCATION	
	4.5 TEST FACILITY	
	4.6 DEVIATION FROM STANDARDS	
	4.7 ABNORMALITIES FROM STANDARD CONDITIONS	
5		
J	J LGOII MENT LIGI	
6	6 RADIO SPECTRUM TECHNICAL REQUIREMENT	10
	6.1 Antenna Requirement	10
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	
7	7 RADIO SPECTRUM MATTER TEST RESULTS	11
	7.1 FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL(15.231(E))	11
	7.1.1 E.U.T. Operation	
	7.1.2 Test Setup Diagram	
	7.1.3 Measurement Data	
	7.2 RADIATED EMISSIONS	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Setup Diagram7.2.3 Measurement Data	
	7.2.3 Measurement Data	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Setup Diagram	
	7.3.3 Measurement Data	
	7.4 20dB Bandwidth	
	7.4.1 E.U.T. Operation	23
	7.4.2 Test Setup Diagram	
	7.4.3 Measurement Data	23
8	8 PHOTOGRAPHS	
	8.1 RADIATED EMISSIONS TEST SETUP	25
	8.2 FUT CONSTRUCTIONAL DETAILS	26



Report No.: SZEM170300160301

Page: 5 of 26

### 4 General Information

#### 4.1 Details of E.U.T.

Operation Frequency: 433.92MHz

Channel Numbers:

Modulation Type: ASK

Sample Type: Portable production

Antenna Type: Integral
Antenna Gain: 0dBi

Power supply: 3.0V DC (1.5V x 2 "AA" Size Batteries) for Tx

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.



Report No.: SZEM170300160301

Page: 6 of 26

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10-8
2	Timeout	2s
3	Duty cycle	0.37%
4	Occupied Bandwidth	3%
5	RF conducted power	0.75dB
6	RF power density	2.84dB
7	Conducted Spurious emissions	0.75dB
	DE Dadiated aggrega	4.5dB (below 1GHz)
8	RF Radiated power	4.8dB (above 1GHz)
	Dedicted Country and all the test	4.5dB (30MHz-1GHz)
9	Radiated Spurious emission test	4.8dB (1GHz-18GHz)
10	Temperature test	1 ℃
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%



Report No.: SZEM170300160301

Page: 7 of 26

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

#### CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCC

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

### • FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

#### Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



Report No.: SZEM170300160301

Page: 8 of 26

## 5 Equipment List

Field Strength of the Fundamental Signal(15.231(e))					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2016-05-13	2017-05-13
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2016-09-15	2017-09-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
(26-3000MHz)	ETS-LINDGREN	31420	3LW003-01	2014-11-01	2017-11-01
Double-ridged horn	ETC LINDODEN	0117	CEM000 11	0015 10 17	0010 10 17
(1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
Horn Antenna	ETC LINDODEN	2160	SEM003-12	2014 11 24	2017-11-24
(18-26GHz)	ETS-LINDGREN	3160	SEIVIUU3-12	2014-11-24	2017-11-24

Radiated Emissions					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2016-05-13	2017-05-13
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2016-10-09	2017-10-09
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25
Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13



Report No.: SZEM170300160301

Page: 9 of 26

Dwell Time(15.231(a))					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2016-05-18	2017-05-18



Report No.: SZEM170300160301

Page: 10 of 26

## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

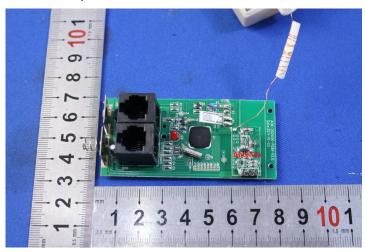
#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.231

#### 6.1.2 Conclusion

#### Standard Requirment:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.



### EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.



Report No.: SZEM170300160301

Page: 11 of 26

### 7 Radio Spectrum Matter Test Results

### 7.1 Field Strength of the Fundamental Signal(15.231(e))

Test Requirement 47 CFR Part 15, Subpart C 15.231(e)
Test Method: ANSI C63.10 (2013) Section 6.5

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(microvolts/meter)	Field strength of spurious emissions(microvolts/meter)
40.66-40.70	1000	100
70-130	500	50
130-174	500 to 1500	50 to 150
174-260	1500	150
260-470	1500 to 5000	150 to 500
Above 470	5000	500

Remark: the emission limit is based on measurement instrumentation employing an average detector at a distance of 3 meters. The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



Report No.: SZEM170300160301

Page: 12 of 26

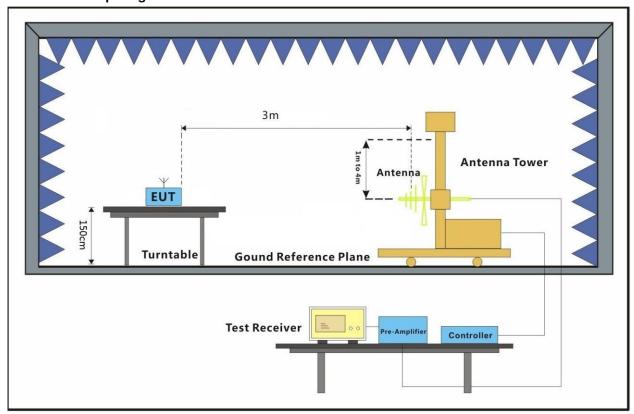
### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 55 % RH Atmospheric Pressure: 1015 mbar

Test mode a:TX mode\_Keep the EUT in transmitting mode

### 7.1.2 Test Setup Diagram





Report No.: SZEM170300160301

Page: 13 of 26

#### 7.1.3 Measurement Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.



Report No.: SZEM170300160301

Page: 14 of 26

Mode:a; Peak value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.92	2.35	16.58	27.35	80.91	72.49	92.86	-20.37	Horizontal
433.92	2.35	16.58	27.35	68.45	60.03	92.86	-40.79	Vertical



Report No.: SZEM170300160301

Page: 15 of 26

#### 7.2 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.231(e)
Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz and 110-490kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.



Report No.: SZEM170300160301

Page: 16 of 26

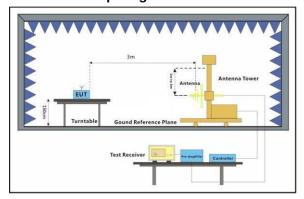
### 7.2.1 E.U.T. Operation

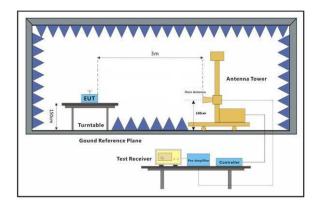
Operating Environment:

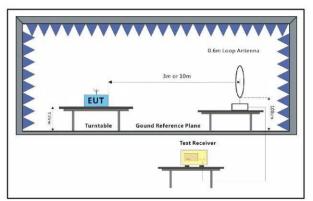
Temperature: 23.0 °C Humidity: 54 % RH Atmospheric Pressure: 1015 mbar

Test mode a:TX mode\_Keep the EUT in transmitting mode

### 7.2.2 Test Setup Diagram







#### 7.2.3 Measurement Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

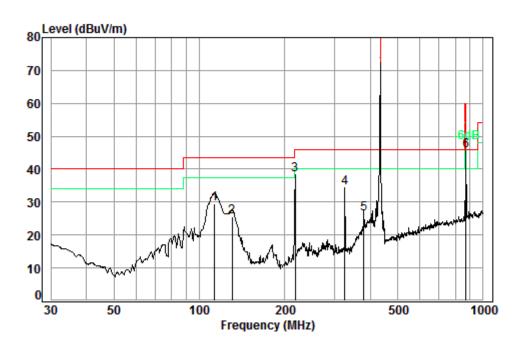


Report No.: SZEM170300160301

Page: 17 of 26

#### **Below 1GHz**

Mode:a; Polarization:Horizontal



Condition: 3m Horizontal

Job No. : 01603CR

Test mode: a

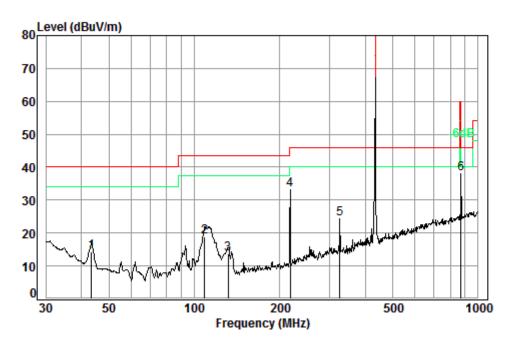
	Freq			Preamp Factor				
	MHz	dB		dB				
1	113.32	1.24	8.37	27.11	47.12	29.62	43.50	-13.88
2	130.84	1.28	7.73	27.01	43.56	25.56	43.50	-17.94
3	217.54	1.50	11.11	26.63	52.25	38.23	46.00	-7.77
4	325.60	1.98	14.78	26.60	44.19	34.35	46.00	-11.65
5	379.91	2.15	16.06	27.01	35.19	26.39	46.00	-19.61
6 pp	869.13	3.48	22.86	26.92	46.10	45.52	46.00	-0.48



Report No.: SZEM170300160301

Page: 18 of 26

Mode:a; Polarization:Vertical



Condition: 3m Vertical Job No. : 01603CR

Test mode: a

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MU-					dD: M/m	dD: M/m	
	MHz	dB	ub/m	dB	abuv	ubuv/m	ubuv/m	dB
1	43.51	0.68	11.56	27.31	29.49	14.42	40.00	-25.58
2	108.65	1.22	8.67	27.14	36.19	18.94	43.50	-24.56
3	131.76	1.28	7.77	27.00	31.52	13.57	43.50	-29.93
4	217.54	1.50	11.11	26.63	47.30	33.28	46.00	-12.72
5	325.60	1.98	14.78	26.60	34.05	24.21	46.00	-21.79
6 pp	869.13	3.48	22.86	26.92	38.50	37.92	46.00	-8.08



Report No.: SZEM170300160301

Page: 19 of 26

#### **Above 1GHz**

Mode: a; Peak value:

	Model a, Foak value.							
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1303.147	24.52	4.22	38.07	55.52	46.19	74	-27.81	Vertical
1736.280	26.55	4.74	38.03	55.80	49.06	74	-24.94	Vertical
1905.276	27.56	4.92	38.01	58.81	53.28	74	-20.72	Vertical
2170.459	28.04	5.16	37.98	49.36	44.58	74	-29.42	Vertical
2421.666	28.70	5.36	37.96	52.74	48.84	74	-25.16	Vertical
3138.336	31.47	6.04	37.91	43.94	43.54	74	-30.46	Vertical
1080.725	24.14	3.90	38.09	43.40	33.35	74	-40.65	Horizontal
1303.147	24.52	4.22	38.07	55.23	45.90	74	-28.10	Horizontal
1736.280	26.55	4.74	38.03	55.68	48.94	74	-25.06	Horizontal
2170.459	28.04	5.16	37.98	52.89	48.11	74	-25.89	Horizontal
2462.289	28.89	5.39	37.95	50.55	46.88	74	-27.12	Horizontal
3160.165	31.59	6.05	37.92	44.67	44.39	74	-29.61	Horizontal

#### Remark

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 5GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



Report No.: SZEM170300160301

Page: 20 of 26

### 7.3 Transmit Time and Silent Period

Test Requirement 47 CFR Part 15C Section 15.231 (e)

Test Method: ANSI C63.10:2013

Limit: The duration of each transmission shall not be greater than one second

The silent period shall be at least 30 times the transmit time but in no

case less than 10 seconds.



Report No.: SZEM170300160301

Page: 21 of 26

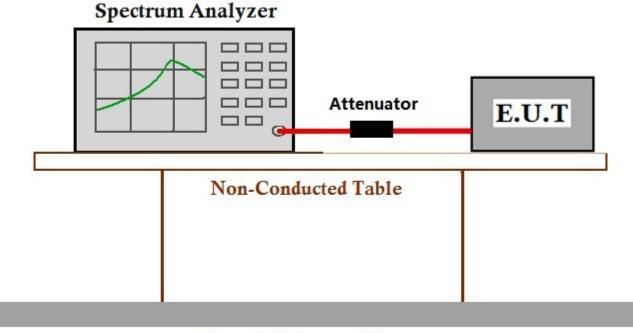
#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Humidity: 56 % RH Atmospheric Pressure: 1015 mbar

Test mode a:TX mode\_Keep the EUT in transmitting mode

#### 7.3.2 Test Setup Diagram



### Ground Reference Plane

#### 7.3.3 Measurement Data

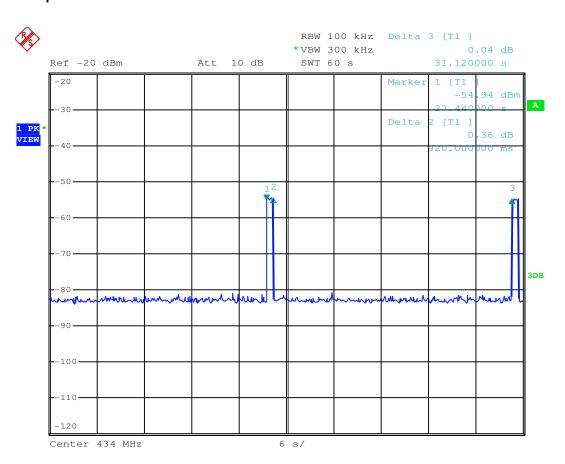
Test item	Test data	Limit
Transmitting time	0.92s	<1(second)
Silent Period	30.2s	>30 times the transmit time(27.6s) and >=10
		seconds.



Report No.: SZEM170300160301

Page: 22 of 26

### Test plot as follows:





Report No.: SZEM170300160301

Page: 23 of 26

#### 7.4 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.231(c)
Test Method: ANSI C63.10 (2013) Section 6.9

Limit:

Frequency range(MHz)	Limit
70-900	No wider than 0.25% of the center frequency
Above 900	No wider than 0.5% of the center frequency

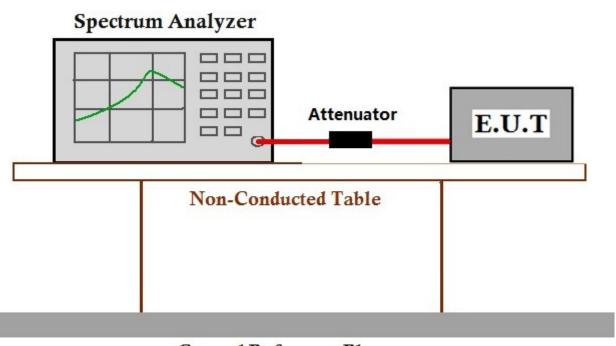
### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Humidity: 56 % RH Atmospheric Pressure: 1015 mbar

Test mode a:TX mode\_Keep the EUT in transmitting mode

#### 7.4.2 Test Setup Diagram



### **Ground Reference Plane**

### 7.4.3 Measurement Data

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sqs.com/en/Terms-and-Conditions.aspx">http://www.sqs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sqs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sqs.com/en/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

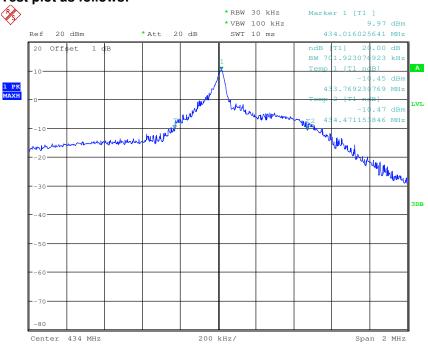


Report No.: SZEM170300160301

Page: 24 of 26

20dB bandwidth (MHz)	Limit (MHz)	Results
0.702	1.085	Pass

#### Test plot as follows:





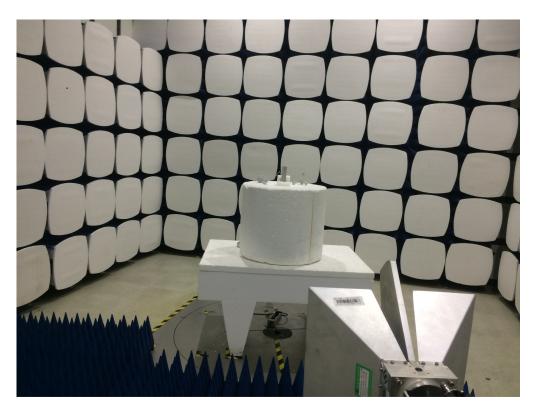
Report No.: SZEM170300160301

Page: 25 of 26

## 8 Photographs

### 8.1 Radiated Emissions Test Setup





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-end-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-end-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced expert in full, without prior written approval of the Company. Any unauthorized alteration, forgety or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: SZEM170300160301

Page: 26 of 26

#### 8.2 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1703001603CR.