

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

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM171001106301

Fax: +86 (0) 755 2671 0594
Email: ee.shenzhen@sgs.com
Page: 1 of 18

TEST REPORT

Application No.: SZEM1710011063CR

**Applicant:** ACOUSTMAX INTERNATIONAL CO., LTD.

Address of Applicant: Unit D16/F Cheuk Nang Plaza 250 Henessy Road Wanchai HongKong, China

Manufacturer: ACOUSTMAX INTERNATIONAL CO., LTD.

Address of Manufacturer: Unit D16/F Cheuk Nang Plaza 250 Henessy Road Wanchai HongKong, China

Factory: Arts Electronics Co., Ltd.

Address of Factory: NO. 1, SHANGXING LU, SHANGJIAO COMMUNITY, CHANGAN TOWN,

DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

**Equipment Under Test (EUT):** 

EUT Name: ROCKIN' ROLLER 4 SPEAKER

Model No.: ROCKIN ROLLER 4 (RR4), RR4-1, RR4 PRO, RR4 mini, RR4, RR5, RR6,

RR7, RR8 &

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2AAINYS1350

Trade mark: Monster

Standard(s): 47 CFR Part 15, Subpart B

**Date of Receipt:** 2017-10-30

**Date of Test:** 2017-11-13 to 2017-11-24

**Date of Issue:** 2017-11-29

Test Result: Pass\*

SERVINCES CO.

A THE SERVINCES CO.

BY THE S

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 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) 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.: SZEM171001106301

Page: 2 of 18

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2017-11-29		Original				

Authorized for issue by:		
	1 Jombh	
	Harry Wu /Project Engineer	
	Eric Fu	
	Eric Fu /Reviewer	



Report No.: SZEM171001106301

Page: 3 of 18

### 2 Test Summary

Emission Part							
Item	Standard	Method	Requirement	Result			
Conducted Emissions at Mains Terminals (150kHz- 30MHz)	47 CFR Part 15,Subpart B	ANSI C63.4	Class B	Pass			
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15,Subpart B	ANSI C63.4	Class B	Pass			
Radiated Emissions (above 1GHz)	47 CFR Part 15,Subpart B	ANSI C63.4	Class B	Pass			

InternalSource	UpperFrequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

#### Remark:

Model No.: ROCKIN ROLLER 4 (RR4), RR4-1, RR4 PRO, RR4 mini, RR4, RR5, RR6, RR7, RR8 Only the model ROCKIN ROLLER 4 (RR4) was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No. and enclosure colour.



Report No.: SZEM171001106301

Page: 4 of 18

### 3 Contents

		Page
1	1 COVER PAGE	1
2	2 TEST SUMMARY	3
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.	
5	4.7 ABNORMALITIES FROM STANDARD CONDITIONS	
6	6 EMISSION TEST RESULTS	9
	6.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHz-30MHz) 6.1.1 E.U.T. Operation 6.1.2 Test Setup Diagram 6.1.3 Measurement Data 6.2 RADIATED EMISSIONS (30MHz-1GHz) 6.2.1 E.U.T. Operation 6.2.2 Test Setup Diagram 6.2.3 Measurement Data 6.3 RADIATED EMISSIONS (ABOVE 1GHz) 6.3.1 E.U.T. Operation 6.3.2 Test Setup Diagram 6.3.3 Measurement Data	
7	7 PHOTOGRAPHS	18
	7.1 TEST SETUP	



Report No.: SZEM171001106301

Page: 5 of 18

### 4 General Information

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

Power supply:	AC120V, 60Hz
	Or Rechargeable battery (DC12V,9AH)
Cable:	AC Cable: 200cm, Unshielded
	Microphone cable: 220cm unshielded
Receiving Frequency Range:	162.400MHz - 162.550MHz

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 4	Apple	A1349	C37HL4GXDP0N
Load Resistor	SGS	N/A	REF. No.SEA0600
Micro USB Cable	PHILIPS	SWR2101	REF. No.SEA0700
Aux In Cable	SAMZHE	YPH-8310	REF. No.SEA0800

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction emission	3.0dB (150kHz to 30MHz)
2	Dedicted emission	4.5dB (30MHz-1GHz)
2	Radiated emission	4.8dB (1GHz-6GHz)
3	Temperature test	1℃
4	Humidity test	3%



Report No.: SZEM171001106301

Page: 6 of 18

#### 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.

#### VCCI

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 –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### 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.: SZEM171001106301

Page: 7 of 18

### 5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2018-05-09	
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2017-07-13	2018-07-12	
LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-09-27	2018-09-26	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-13	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2017-04-14	2018-04-13	

Radiated Emissions (30MHz-1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12	
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017-09-27	2018-09-26	
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26	
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-13	

Radiated Emissions (above 1GHz)						
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-09	2017-06-05	2018-06-04	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-06	2015-06-14	2018-06-13	
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-26	



Report No.: SZEM171001106301

Page: 8 of 18

General used equipment						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28	
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28	
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-17	



Report No.: SZEM171001106301

Page: 9 of 18

### 6 Emission Test Results

#### 6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4 Frequency Range: 150kHz to 30MHz

Limit:

0.15M-0.5MHz 66dB( $\mu$ V)-56dB( $\mu$ V) quasi-peak, 56dB( $\mu$ V)-46dB( $\mu$ V) average

0.5M-5MHz 56dB( $\mu$ V) quasi-peak, 46dB( $\mu$ V) average 5M-30MHz 60dB( $\mu$ V) quasi-peak, 50dB( $\mu$ V) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1015 mbar

Pretest these mode to find the worst case:

j: NOAA+ charge+ discharge, Keep EUT working at low channel while discharging with full load and being charged.

L NOAA

k: NOAA+ charge+ discharge, Keep EUT working at middle channel while

discharging with full load and being charged.

I: NOAA+ charge+ discharge, Keep EUT working at high channel while discharging

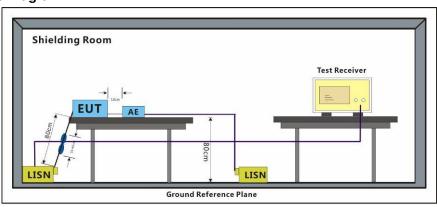
with full load and being charged.

The worst case for final test:

k: NOAA+ charge+ discharge, Keep EUT working at middle channel while

discharging with full load and being charged.

#### 6.1.2 Test Setup Diagram



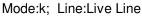
#### 6.1.3 Measurement Data

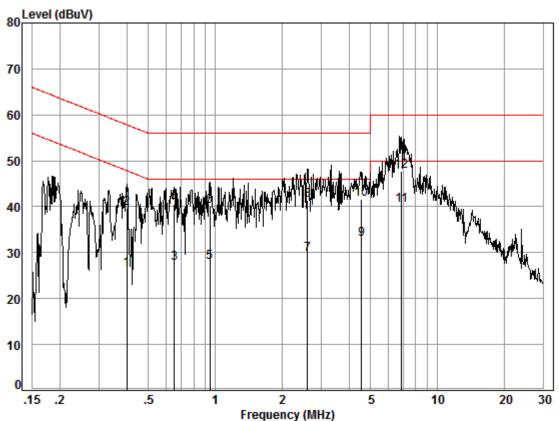
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



Report No.: SZEM171001106301

Page: 10 of 18





Site : Shielding Room

Condition: Line Job No. : 11063CR

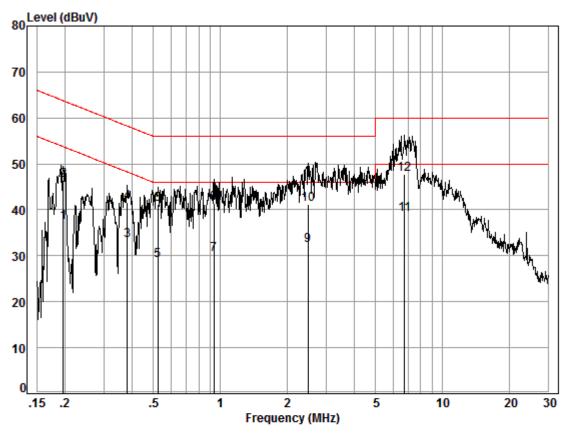
	mouc.							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.40	0.01	9.49	16.97	26.47	47.86	-21.39	Average
2	0.40	0.01	9.49	30.06	39.56	57.86	-18.30	QP
3	0.65	0.02	9.51	18.21	27.74	46.00	-18.26	Average
4	0.65	0.02	9.51	30.93	40.46	56.00	-15.54	QP
5	0.95	0.02	9.49	18.41	27.92	46.00	-18.08	Average
6	0.95	0.02	9.49	30.58	40.09	56.00	-15.91	QP
7	2.61	0.02	9.53	20.08	29.63	46.00	-16.37	Average
8	2.61	0.02	9.53	31.90	41.45	56.00	-14.55	QP
9	4.55	0.01	9.55	23.41	32.97	46.00	-13.03	Average
10	4.55	0.01	9.55	32.13	41.69	56.00	-14.31	QP
11	6.91	0.01	9.59	30.62	40.22	50.00	-9.78	Average
12	6.91	0.01	9.59	38.14	47.74	60.00	-12.26	QP



Report No.: SZEM171001106301

Page: 11 of 18

Mode:k; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11063CR

mode. It							
	Cable	LISN	Read		Limit	0ver	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
0.20	0.02	9.57	27.59	37.18	53.76	-16.58	Average
0.20	0.02	9.57	36.89	46.48	63.76	-17.28	QP
0.38	0.01	9.59	23.86	33.46	48.25	-14.79	Average
0.38	0.01	9.59	32.08	41.68	58.25	-16.57	QP
0.52	0.01	9.61	19.32	28.94	46.00	-17.06	Average
0.52	0.01	9.61	31.57	41.19	56.00	-14.81	QP
0.94	0.02	9.62	20.75	30.39	46.00	-15.61	Average
0.94	0.02	9.62	31.67	41.31	56.00	-14.69	QP
2.49	0.02	9.64	22.55	32.21	46.00	-13.79	Average
2.49	0.02	9.64	31.55	41.21	56.00	-14.79	QP
6.77	0.01	9.72	29.20	38.93	50.00	-11.07	Average
6.77	0.01	9.72	38.02	47.75	60.00	-12.25	QP
	MHz  0.20 0.20 0.38 0.38 0.52 0.52 0.94 0.94 2.49 2.49 6.77	MHz dB  0.20 0.02  0.20 0.02  0.38 0.01  0.38 0.01  0.52 0.01  0.52 0.01  0.94 0.02  0.94 0.02  2.49 0.02  2.49 0.02  2.49 0.02  6.77 0.01	MHz dB dB  0.20 0.02 9.57 0.20 0.02 9.57 0.38 0.01 9.59 0.38 0.01 9.59 0.52 0.01 9.61 0.52 0.01 9.61 0.94 0.02 9.62 0.94 0.02 9.62 2.49 0.02 9.64 2.49 0.02 9.64 6.77 0.01 9.72	MHz         dB         dB         dBuV           0.20         0.02         9.57         27.59           0.20         0.02         9.57         36.89           0.38         0.01         9.59         23.86           0.38         0.01         9.59         32.08           0.52         0.01         9.61         19.32           0.52         0.01         9.61         31.57           0.94         0.02         9.62         20.75           0.94         0.02         9.62         31.67           2.49         0.02         9.64         22.55           2.49         0.02         9.64         31.55           6.77         0.01         9.72         29.20	MHz         dB         dB         dBuV         dBuV           0.20         0.02         9.57         27.59         37.18           0.20         0.02         9.57         36.89         46.48           0.38         0.01         9.59         23.86         33.46           0.38         0.01         9.59         32.08         41.68           0.52         0.01         9.61         19.32         28.94           0.52         0.01         9.61         31.57         41.19           0.94         0.02         9.62         20.75         30.39           0.94         0.02         9.62         31.67         41.31           2.49         0.02         9.64         22.55         32.21           2.49         0.02         9.64         31.55         41.21           6.77         0.01         9.72         29.20         38.93	MHz         dB         dB         dBuV         dBuV         dBuV         dBuV           0.20         0.02         9.57         27.59         37.18         53.76           0.20         0.02         9.57         36.89         46.48         63.76           0.38         0.01         9.59         23.86         33.46         48.25           0.38         0.01         9.59         32.08         41.68         58.25           0.52         0.01         9.61         19.32         28.94         46.00           0.52         0.01         9.61         31.57         41.19         56.00           0.94         0.02         9.62         20.75         30.39         46.00           0.94         0.02         9.62         31.67         41.31         56.00           2.49         0.02         9.64         22.55         32.21         46.00           2.49         0.02         9.64         31.55         41.21         56.00           6.77         0.01         9.72         29.20         38.93         50.00	Freq         Loss Factor         Level         Level         Line         Limit           MHz         dB         dB         dBuV         dBuV         dBuV         dB           0.20         0.02         9.57         27.59         37.18         53.76         -16.58           0.20         0.02         9.57         36.89         46.48         63.76         -17.28           0.38         0.01         9.59         23.86         33.46         48.25         -14.79           0.38         0.01         9.59         32.08         41.68         58.25         -16.57           0.52         0.01         9.61         19.32         28.94         46.00         -17.06           0.52         0.01         9.61         31.57         41.19         56.00         -14.81           0.94         0.02         9.62         20.75         30.39         46.00         -15.61           0.94         0.02         9.62         31.67         41.31         56.00         -14.69           2.49         0.02         9.64         22.55         32.21         46.00         -13.79           2.49         0.02         9.64         31.55         41.21



Report No.: SZEM171001106301

12 of 18 Page:

#### 6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4 Frequency Range: 30MHz to 1GHz

Measurement Distance:

I imit:

30MHz -88MHz 40.0(dBµV/m) quasi-peak 88MHz-216MHz 43.5(dBµV/m) quasi-peak 216MHz-960MHz 46.0(dBµV/m) quasi-peak 960MHz-1000MHz 54.0(dBµV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

#### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1015 mbar Humidity: 54 % RH

Pretest these mode to find the worst case:

j: NOAA+ charge+ discharge, Keep EUT working at low channel while discharging with full load and being charged.

k: NOAA+ charge+ discharge, Keep EUT working at middle channel while

discharging with full load and being charged.

I: NOAA+ charge+ discharge, Keep EUT working at high channel while discharging

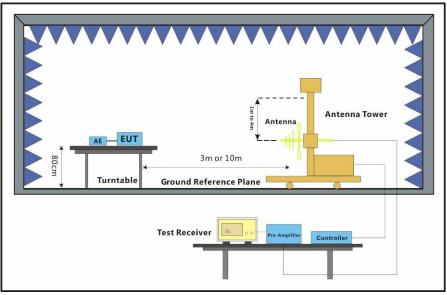
with full load and being charged.

The worst case for final test:

k: NOAA+ charge+ discharge, Keep EUT working at middle channel while

discharging with full load and being charged.

#### 6.2.2 Test Setup Diagram



#### 6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

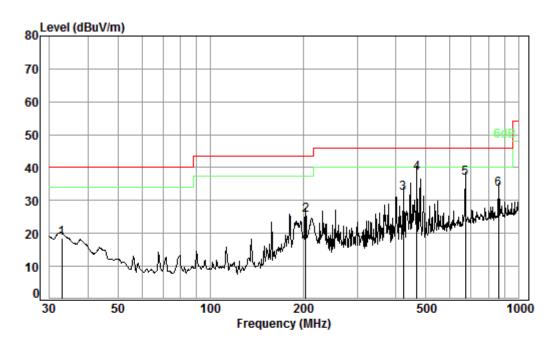
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sqs.com/en/Terms-and-Conditions.rems-en-Documents.sqs.com/en/Terms-and-Conditions.rems-en-Documents.sqs.com/en/Terms-and-Conditions.rems-en-Document.aspx. 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) tested and such sample(s) are retained for 30 days only.



Report No.: SZEM171001106301

Page: 13 of 18

Mode:k; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11063CR

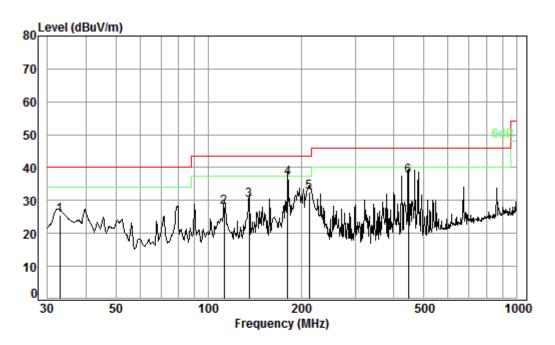
	Freq			Preamp Factor				Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.86	0.60	17.10	27.35	28.09	18.44	40.00	-21.56
2	203.52	1.42	10.38	26.69	40.43	25.54	43.50	-17.96
3	423.54	2.30	16.39	27.27	40.72	32.14	46.00	-13.86
4 pp	468.88	2.49	17.58	27.54	45.90	38.43	46.00	-7.57
5	672.84	2.85	21.33	27.45	40.05	36.78	46.00	-9.22
6	863.06	3.46	22.71	26.96	34.19	33.40	46.00	-12.60



Report No.: SZEM171001106301

Page: 14 of 18

Mode:k; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 11063CR

C3 C	mode. K							
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.86	0.60	17.10	27.35	35.07	25.42	40.00	-14.58
2	112.52	1.23	8.42	27.11	45.46	28.00	43.50	-15.50
3	135.51	1.29	7.92	26.98	47.79	30.02	43.50	-13.48
4 p	p 180.65	1.37	9.91	26.77	52.29	36.80	43.50	-6.70
5	212.27	1.47	10.84	26.65	46.97	32.63	43.50	-10.87
6	446.41	2.40	16.83	27.42	45.66	37.47	46.00	-8.53



Report No.: SZEM171001106301

Page: 15 of 18

#### 6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4 Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBµV/m) peak, 54(dBµV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1015 mbar

Pretest these mode to find the

j: NOAA+ charge+ discharge, Keep EUT working at low channel while discharging

with full load and being charged.

mode to find the worst case:

k: NOAA+ charge+ discharge, Keep EUT working at middle channel while

discharging with full load and being charged.

I: NOAA+ charge+ discharge, Keep EUT working at high channel while discharging

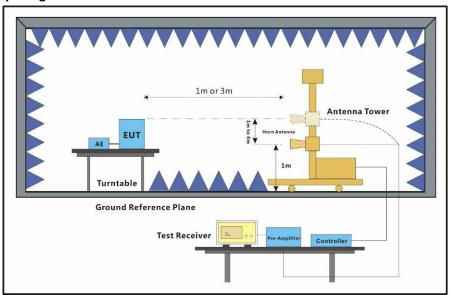
with full load and being charged.

The worst case for final test:

k: NOAA+ charge+ discharge, Keep EUT working at middle channel while

discharging with full load and being charged.

#### 6.3.2 Test Setup Diagram



#### 6.3.3 Measurement Data

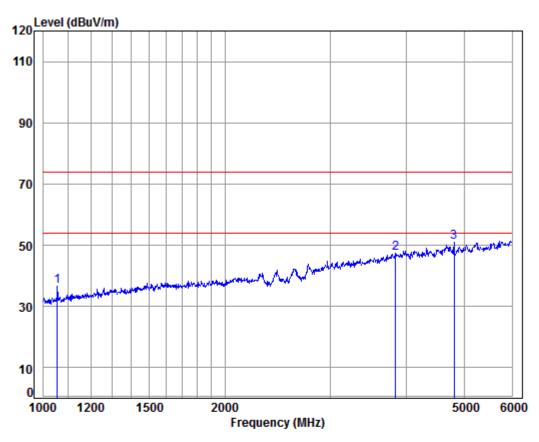
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



Report No.: SZEM171001106301

16 of 18 Page:

Mode:k; Polarization:Horizontal



Condition: 3m Horizontal

Job No : 11063CR

Mo

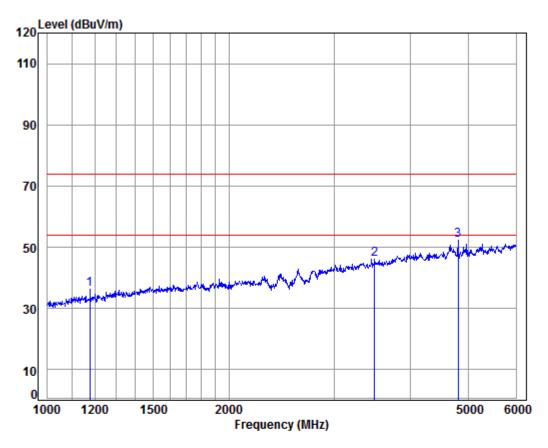
lode	: k									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
		u.	45/111	45	abar	abav, iii	abav, iii	40		
1	1055.224	3 21	23 72	37 70	16 88	36 62	7/ 00	_37_38	Dook	
_	1033.224	5.01	23.72	37.73	40.00	30.02	74.00	-57.50	reak	
2	3840.534	6.82	33.17	37.17	44.67	47.49	74.00	-26.51	Peak	
3 pp	4804.636	7.89	34.16	37.26	46.35	51.14	74.00	-22.86	Peak	



Report No.: SZEM171001106301

Page: 17 of 18

Mode:k; Polarization:Vertical



Condition: 3m VERTICAL

Job No : 11063CR

Mode : k

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	1177.096 3492.606 4804.636	6.45	32.19	37.34	44.88	46.18	74.00	-27.82	Peak



Report No.: SZEM171001106301

Page: 18 of 18

### 7 Photographs

### 7.1 Test Setup

Refer to setup photos.

#### 7.2 EUT Constructional Details

Refer to External photos and Internal photos.

- End of the Report -