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## TEST REPORT

Application No.:	SZEM1708009170CR(SGS SZ No.:T51710250151EM)
Applicant:	Mindscope Products Inc.
Address of Applicant:	P.O. Box 9525, Glendale, California 91226, United States
Buyer/Importer:	QVC INC
Manufacturer:	SHANTOU RUICHENG TOYS INDUSTRY CO., LTD
Supplier:	MINDSCOPE PRODUCTS INC
Equipment Under Test (EUT	):
EUT Name:	REMOTE CONTROLL STUNT VEHICLE MINI HOVERQUAD
Model No.	MSPHOVM
FCC ID:	YKGMSPHOVMD
P.O./ Ref. No.:	PO912754, 912907, 912908, 912909
Country of Origin:	SHANTOU, GUANGDONG, CHINA
Country of Destination:	USA
Requested Age Grading:	3+
Standard(s) :	47 CFR Part 15, Subpart C 15.235
Date of Receipt:	2017-08-21
Date of Test:	2017-08-22 to 2017-09-14
Date of Issue:	2017-10-30
Test Result:	Pass *

\* In the configuration tested, the EUT complied with the standards specified above.



#### 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.

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	Revision Record							
Version	Version Chapter Date Modifier Re							
01		2017-10-30		Original				

Authorized for issue by:		
	Gebin Sun	
	Gebin Sun /Project Engineer	
	Eric Fu	
	Eric Fu /Reviewer	



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## 2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.235	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
20dB Bandwidth	47 CFR Part 15, Subpart C 15.235	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass			
Field Strength of the Fundamental Signal (15.235(a))	47 CFR Part 15, Subpart C 15.235	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.235	Pass			
Radiated Emissions	47 CFR Part 15, Subpart C 15.235	ANSI C63.10 (2013) Section 6.4 & 6.5	47 CFR Part 15, Subpart C 15.235 & 15.209	Pass			



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## 4 General Information

## 4.1 Details of E.U.T.

Frequency Range:

Power supply:

EUT Name:

Model No.

REMOTE CONTROLL STUNT VEHICLE MINI HOVERQUAD MSPHOVM 49.860MHz 3V 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.

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## 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10 <sup>-8</sup>
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	DE Dedicted power	4.5dB (below 1GHz)
1	RF Radiated power	4.8dB (above 1GHz)
8	Dedicted Spurious emission test	4.5dB (30MHz-1GHz)
0	Radiated Spurious emission test	4.8dB (1GHz-18GHz)
9	Temperature test	1 °C
10	Humidity test	3%
11	Supply voltages 1.5%	
12	Time	3%



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### 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



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## 5 Equipment List

### 20dB Bandwidth

Load Danamatin					
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	FSU43	SEM004-08	2017-04-14	2018-04-13
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09
Coaxial Cable	SGS	N/A	SEM031-01	2017-07-13	2018-07-12

Field Strength of the Fundamental Signal (15.235(a))						
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	
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	
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12	



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Radiated Emissions(9kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2017-05-10	2018-05-10	
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A	
EMI Test Receiver (9kHz-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2017-04-14	2018-04-13	
Trilog-Broadband Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-17	2016-01-26	2019-01-26	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2017-06-05	2018-06-04	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	
Coaxial Cable	SGS	N/A	SEM029-01	2017-07-13	2018-07-12	



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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	
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	
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12	

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	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	2017-04-18	2018-04-18			



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

### 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.



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## 7 Radio Spectrum Matter Test Results

## 7.1 20dB Bandwidth

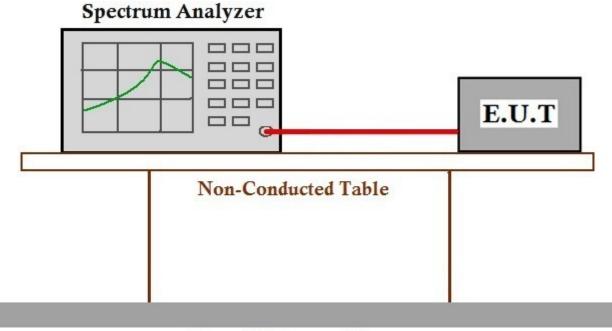
Test Requirement	47 CFR Part 15, Subpart C 15.215
Test Method:	ANSI C63.10 (2013) Section 6.9

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature:25 °CHumidity:55 % RHAtmospheric Pressure:1005 mbarTest modeb:TX mode\_Keep the EUT in transmitting with modulation mode.

### 7.1.2 Test Setup Diagram

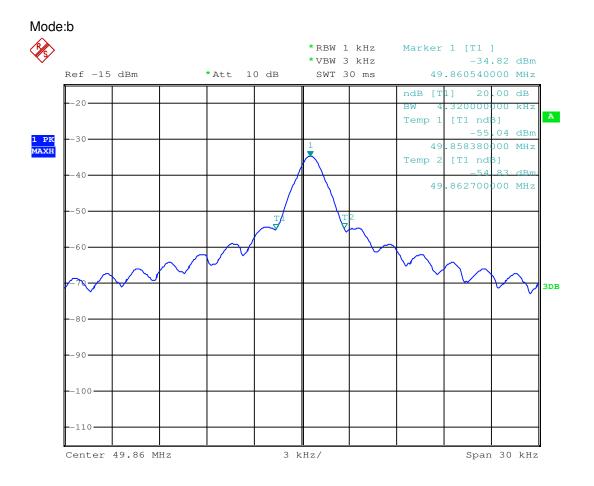


## **Ground Reference Plane**

7.1.3 Measurement Procedure and Data



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## 7.2 Field Strength of the Fundamental Signal (15.235(a))

Test Requirement	47 CFR Part 15, Subpart C 15.235
Test Method:	ANSI C63.10 (2013) Section 6.4
Measurement Distance:	3m
Limit:	$\leq$ 10000 microvolts/meter at 3 meters, the emission limit is based on measurement instrumentation employing an average Detector:. The provisions in § 15.35 for limiting peak emissions apply.



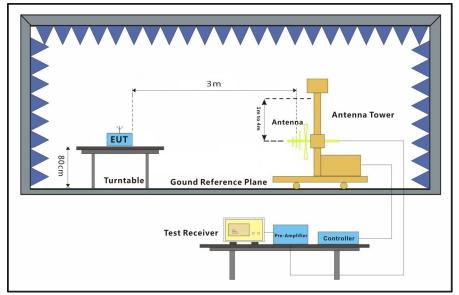
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### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature:25 °CHumidity:55 % RHAtmospheric Pressure:1005 mbarTest modeb:TX modeKeep the EUT in transmitting with modulation mode.

### 7.2.2 Test Setup Diagram



#### 7.2.3 Measurement Procedure and Data

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

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. 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.

d. 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.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

g. 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.

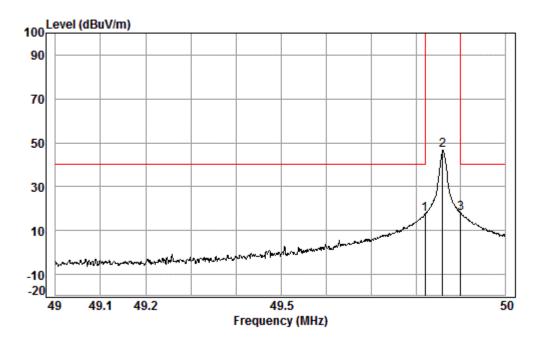
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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Mode:b; Polarization:Horizontal



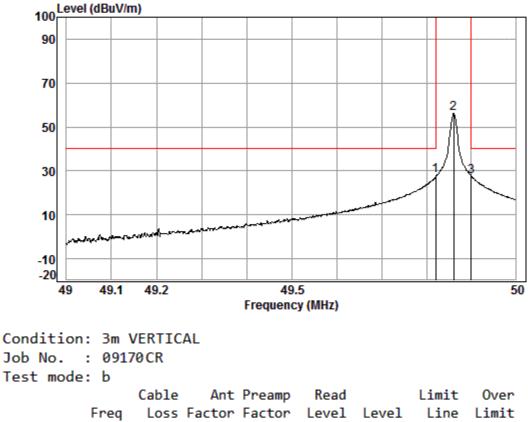
### Condition: 3m HORIZONTAL Job No. : 09170CR Test mode: b

est	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 3 p	49.86	0.80 0.80 0.80	8.76	27.29 27.29 27.29	64.21	46.48	100.00	-53.52



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Mode:b; Polarization:Vertical



	Freq	LOSS	Factor	Factor	rever	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
				40				40
1 pp	49.82	0.80	8.78	27.29	45.40	27.69	40.00	-12.31
2	49.86	0.80	8.76	27.29	74.04	56.31	100.00	-43.69
3	49.90	0.80	8.74	27.29	45.36	27.61	40.00	-12.39

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



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## 7.3 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.235 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4&6.5
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.						
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)				
30-88	100	3				
88-216	150	3				
216-960	200	3				
Above 960	500	3				

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for above 1000MHz. Radiated emission limits above 1000MHz is based on measurements employing an average detector.

### 7.3.1 E.U.T. Operation

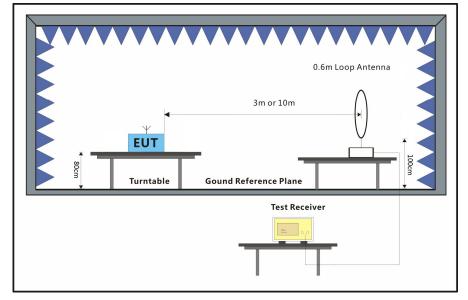
**Operating Environment:** 

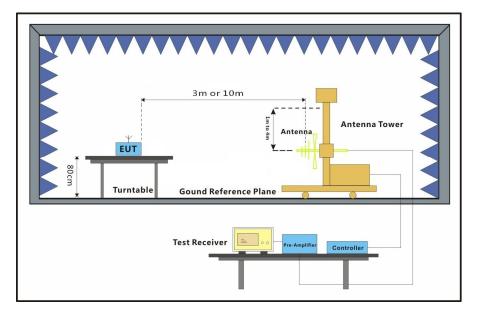
Temperature:	25 °C	Humidity:	55 % RH	Atmospheric Pressure:	1005	mbar
Test mode	b:TX mode_Ke	eep the EUT	in transmitting with	h modulation mode.		



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### 7.3.2 Test Setup Diagram







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#### 7.3.3 Measurement Procedure and Data

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

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. 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.

d. 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.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

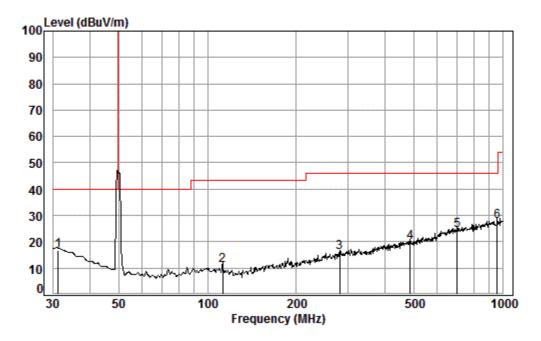
g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Mode:b; Polarization:Horizontal



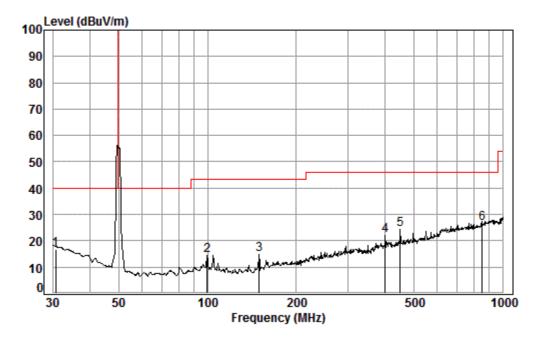
### Condition: 3m HORIZONTAL Job No. : 09170CR Test mode: b

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2	31.29 112.52			27.35 27.11				
3	280.02	1.81	13.02	26.45	27.47	15.85	46.00	-30.15
4 5 6 p	485.61 699.30 p 955.44	2.90	21.59	27.64 27.41 26.51	27.32	24.40	46.00	-21.60
	•							



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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 09170CR Test mode: b

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
2 3 1 4 3 5 4	30.64 99.88 49.49 99.03 49.56 51.04	1.32 2.20 2.41	9.10 8.95 16.29 16.89	27.35 27.20 26.91 27.13 27.44 27.02	31.24 31.46 30.51 32.55	14.34 14.82 21.87 24.41	43.50 43.50 46.00 46.00	-29.16 -28.68 -24.13 -21.59

#### Remark:

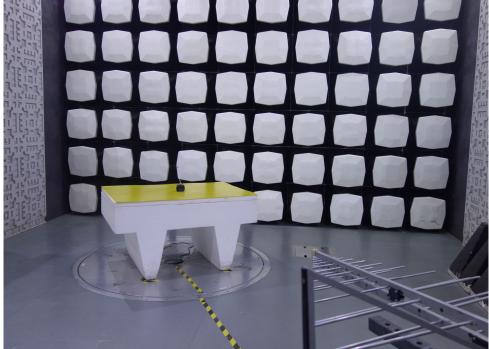
The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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## 8 Photographs

8.1 Radiated Emissions(30MHz-1GHz) Test Setup



## 8.2 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1708009170CR.