

Report No.: SZEM200700672302

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# TEST REPORT

Application No.: SZEM2007006723CR

Applicant: LINGSHENG TOYS FACTORY

Address of Applicant: Lianxia Town, Chenghai District, Shantou City, Guangdong Province,

515800, China

Manufacturer: LINGSHENG TOYS FACTORY

Address of Manufacturer: Lianxia Town, Chenghai District, Shantou City, Guangdong Province,

515800, China

**Equipment Under Test (EUT):** 

**EUT Name:** REMOTE CONTROL CAR SERIES

Model No.: Please refer to section 2 ♣

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

actually tested and which were electrically identical.

**FCC ID:** 2AT3ILS888935

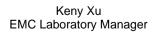
Standard(s): 47 CFR Part 15, Subpart C 15.235

**Date of Receipt:** 2020-07-20

**Date of Test:** 2020-07-21 to 2020-08-05

**Date of Issue:** 2020-08-10

Test Result: Pass\*



Ceny. Ku



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



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2020-08-10		Original				

Authorized for issue by:		
	Peter. Garg	
	Peter Geng /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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#### **Test Summary** 2

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 (9kHz-30MHz)	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			
Radiated Emissions (30MHz-1GHz)	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			

#### Remark:

Model No.: 955-31, 955-32, 955-33, 955-35, 955-36, 955-38, 955-39, 955-50, 955-51, 955-52, 955-53, 955-55, 955-56, 955-58, 955-59, 955-60, 955-61, 955-62, 955-63, 955-65, 955-66, 955-68, 955-69, 955-80, 955-81, 955-82, 955-83, 955-85, 955-86, 955-88, 955-89, 955-90, 955-91, 955-92, 955-93, 955-95, 955-96, 955-98, 955-99, 955-100, 955-101, 955-102, 955-103, 955-105, 955-106, 955-108, 955-109, 955-110, 955-111, 955-112, 955-113, 955-115, 955-116, 955-118, 955-119, 955-120, 955-121, 955-122, 955-123, 955-125, 955-126, 955-128, 955-129, 955-130, 955-131, 955-132, 955-133, 955-135, 955-136, 955-138, 955-139, 955-150, 955-151, 955-152, 955-153, 955-155, 955-156

Only the model 955-80 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on color, appearance and packaging.



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## **General Information**

## 4.1 Details of E.U.T.

Power Supply:	remote: DC 3V by 2x1.5V "AA" batteries
Operation Frequency:	49.86MHz
Antenna Type:	Integral antenna

## 4.2 Description of Support Units

The EUT has been tested as an independent unit.

## 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	Conduction emission	± 3.0dB (150kHz to 30MHz)
5	RF conducted power	± 0.75dB
6	RF power density	± 2.84dB
7	Conducted Spurious emissions	± 0.75dB
8	DE Dadiated newer	± 4.5dB (Below 1GHz)
0	RF Radiated power	± 4.8dB (Above 1GHz)
0	Dadicted Courieus emission test	± 4.5dB (Below 1GHz)
9	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
10	Temperature test	± 1°C
11	Humidity test	± 3%
12	Supply voltages	± 1%
13	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:

#### 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 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 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.

#### • Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None





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#### **Equipment List** 5

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	2020-07-19	2023-07-18			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09			
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15			
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23			
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31			

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	2020-07-19	2023-07-18			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09			
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15			
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23			
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31			



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RF conducted test							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	ZhaoXin	PS-3005D	SEM011-05	2019-09-24	2020-09-23		
Spectrum Analyzer (20Hz- 43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31		
Signal Generator (9kHz- 40GHz)	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27		
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	N/A	N/A		
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24		

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	2019-09-26	2020-09-25		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06		



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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 Requirement:

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.

Antenna location: Refer to External Photos.



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#### **Radio Spectrum Matter Test Results** 7

### 20dB Bandwidth

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

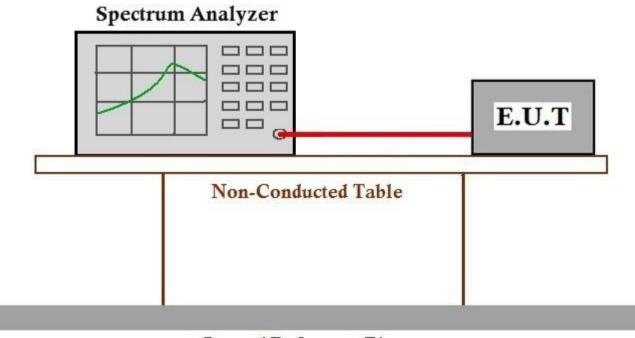
## 7.1.1 E.U.T. Operation

Operating Environment:

°C Temperature: Humidity: 52.8 % RH Atmospheric Pressure: 1010 mbar 26

Test mode b: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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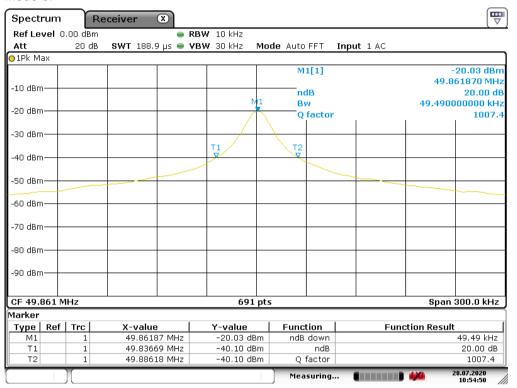
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#### Mode b:



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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 ANSI C63.10 (2013) Section 6.4 Test Method:

Measurement Distance: 3m

Limit: ≤ 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.

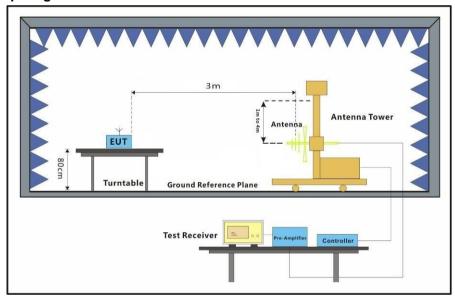
## 7.2.1 E.U.T. Operation

**Operating Environment:** 

Temperature: Humidity: 52.8 % RH Atmospheric Pressure: 1010 mbar

Test mode b:TX mode\_Keep the EUT in transmitting with modulation mode.

## 7.2.2 Test Setup Diagram





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#### 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
- 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

Freq (MHz)	Cable _Loss (dB)	Antenna _Factor (dB/m)	Preamp _Gain (dB)	Read _Level (dBuV)	Level (dBuV)	Limit _Line (dBuV)	Over _Limit (dB)	Remark
49.862	0.8	14.24	27.6	54.68	42.12	100	-57.88	Peak
49.862	0.8	14.24	27.6	73.14	60.58	100	-39.42	Peak



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## 7.3 Radiated Emissions(9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.235 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4 & 6.5

Limit:

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.

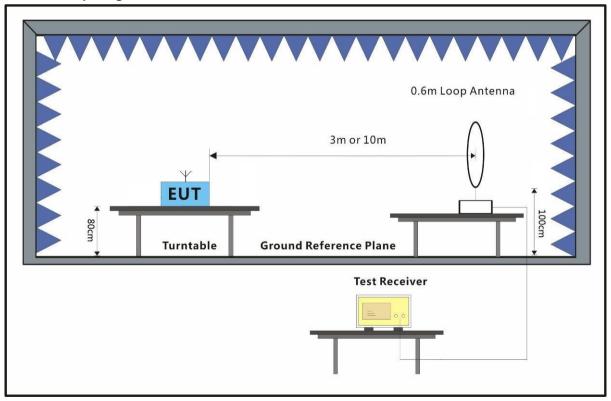
### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 26 °C Humidity: 52.8 % RH Atmospheric Pressure: 1010 mbar

Test mode b:TX mode\_Keep the EUT in transmitting with modulation mode.

## 7.3.2 Test Setup Diagram





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#### 7.3.3 Measurement Procedure and 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. All emissions tests were conducted and found has more than 10dB margins. So it is deemed to comply with the requirement without submitting test data.



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

Test Requirement 47 CFR Part 15, Subpart C 15.235 & 15.209

ANSI C63.10 (2013) Section 6.4 & 6.5 Test Method:

Measurement Distance: 3m

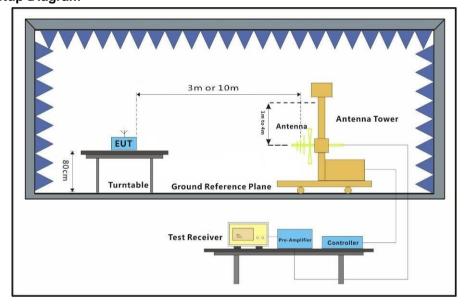
#### 7.4.1 E.U.T. Operation

**Operating Environment:** 

Temperature: 52.8 % RH Atmospheric Pressure: 1010 mbar Humidity:

Test mode b:TX mode\_Keep the EUT in transmitting with modulation mode.

## 7.4.2 Test Setup Diagram





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#### 7.4.3 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
- 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

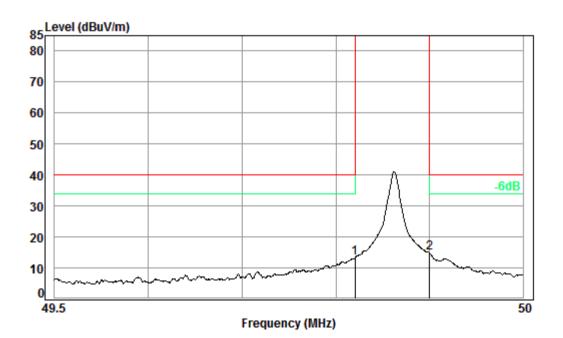




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Mode:b; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 06723CR

Test mode: b

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	49.82	0.80	14.25	27.60	25.73	13.18	40.00	-26.82	QP
2 pp	49.90	0.80	14.23	27.60	27.33	14.76	40.00	-25.24	OP



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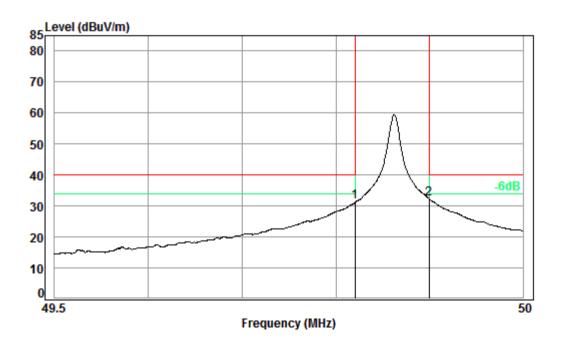
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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 06723CR

Test mode: b

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 49.82	0 80	14.25	27.60	43.74	31.19	40.00	-8.81	OP



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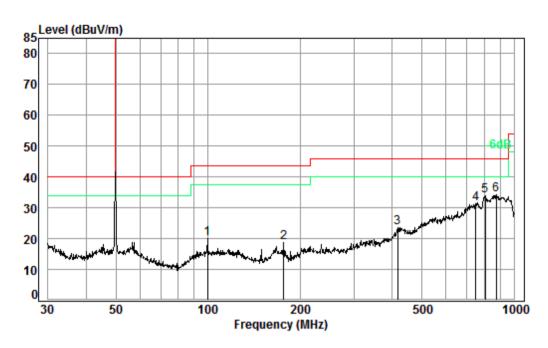
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Mode:b: Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 06723CR

Test mode: b

	mode. b								
		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	
1	00 53	1 10	12.06	27 51	22 27	10 01	42 FA	22 50	OD
1	99.55	1.19	15.90	27.51	32.2/	19.91	43.50	-23.39	٧P
2	176.89	1.37	15.84	27.53	29.03	18.71	43.50	-24.79	QP
3	416.18	2.27	22.79	27.76	26.20	23.50	46.00	-22.50	QP
4	750.11	3.06	28.21	27.48	27.43	31.22	46.00	-14.78	QP
5	804.60	3.23	28.56	27.40	29.51	33.90	46.00	-12.10	QP
6 n	n 875 25	3 50	20 /0	27 16	28 29	3/1 12	16 00	_11 88	ΛP



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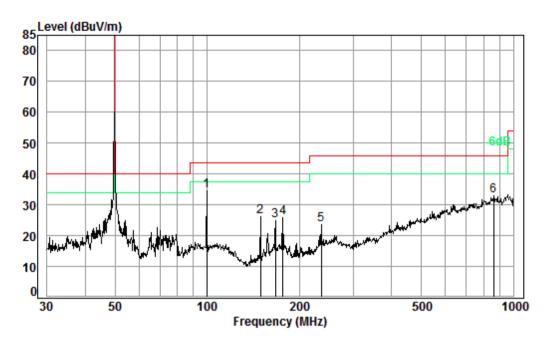
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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 06723CR

Test mode: b

		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	
1 pp	99.53	1.19	13.96	27.51	46.83	34.47	43.50	-9.03	QP
2	149.49	1.32	14.58	27.52	37.79	26.17	43.50	-17.33	QP
3	167.24	1.35	15.65	27.52	35.33	24.81	43.50	-18.69	QP
4	176.89	1.37	15.84	27.53	36.10	25.78	43.50	-17.72	QP
5	235.82	1.60	18.48	27.53	31.02	23.57	46.00	-22.43	QP
6	863.06	3.46	29.34	27.20	27.27	32.87	46.00	-13.13	QP



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# 8 Photographs

## 8.1 Test Setup

Please refer to setup photos.

## 8.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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