

EMC-TRF-01 Rev 1.0 Report No.: GZCR210902105701

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## TEST REPORT

Application No.: GZCR2109021057AT

Applicant: SHANTOU CHENGHAI CHENG LE TOYS CO., LTD

Address of Applicant: SHANG XIANG VILLAGE INDUSTRIAL ZONE, IANSHANG, HENGHAI

DISTRICT, HANTOU, UANGDONG, HINA

Manufacturer: SHANTOU CHENGHAI CHENG LE TOYS CO., LTD

Address of Manufacturer: SHANG XIANG VILLAGE INDUSTRIAL ZONE, IANSHANG, HENGHAI

DISTRICT, HANTOU, UANGDONG, HINA

**Equipment Under Test (EUT):** 

**EUT Name:** Remote Control Car Series

Model No.: 2301F,MT1360,T/4774,T/4992,T/4995,T/5627,T/5629,T/5631,T/5950,

T/6205,T/6686,T/6687,T/6787,T/6788,2855,YY2001,YY2025,YY2026, YY2014,YY2013,2081,2083,2084,2305,2020,2053,2054,2009,2301, 2170,2049,2048,2024,2026,2015,2016,2025,2027,2028,27020,27029, 27040,27042,27046,27050,27056,27057,27018,27021,27024,27043, 2056A,B10,B14,B24,27020A,27029A,27040A,27042A,27046A,27050A, 27056A,27057A,2313X,2313P,2315X,2315P,2319X,2319P,2335X,2335P,

2301F,2170F,2049F,2048F,2024F,2026F,2270F,2270S,TOR-2019,

SWM-2837-2 \*

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

tested and which were electrically identical.

Standard(s): 47 CFR Part 15, Subpart C 15.227

**Date of Receipt:** 2021-08-11

**Date of Test:** 2021-08-12 to 2021-09-16

**Date of Issue:** 2021-09-22

Test Result: Pass\*

Kobe Jian EMC Laboratory Manager

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



Rev 1.0

## SGS-CSTC Standards Technical Services Co., Ltd. **Guangzhou Branch**

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		Revision Reco	·d	
Version	Chapter	Date	Modifier	Remark
01		2021-09-22		Original

Authorized for issue by		
	Cof Vlu	
	Curry Wu/Project Engineer	
	Riday Liu	
	Ricky Liu/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 15.227	N/A	47 CFR Part 15, Subpart C 15.203	Pass	

Radio Spectrum Matt	er Part			
Item	Standard	Method	Requirement	Result
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Field Strength of the Fundamental Signal (15.227(a))	47 CFR Part 15, Subpart C 15.227	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.227(a)	Pass
Radiated Emissions		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.227(b) & C 15.209	Pass

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

### **Declaration of EUT Family Grouping:**

Model No.:2301F,MT1360,T/4774,T/4992,T/4995,T/5627,T/5629,T/5631,T/5950,T/6205,T/6686,T/6687, T/6787,T/6788,2855,YY2001,YY2025,YY2026,YY2014,YY2013,2081,2083,2084,2305,2020,2053, 2054,2009,2301,2170,2049,2048,2024,2026,2015,2016,2025,2027,2028,27020,27029,27040,27042, 27046,27050,27056,27057,27018,27021,27024,27043,2056A,B10,B14,B24,27020A,27029A,27040A, 27042A,27046A,27050A,27056A,27057A,2313X,2313P,2315X,2315P,2319X,2319P,2335X,2335P, 2301F,2170F,2049F,2048F,2024F,2026F,2270F,2270S,TOR-2019,SWM-2837-2

Only the model 2301F was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on color, appearance and package.



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## 4 General Information

## 4.1 Details of E.U.T.

Power supply:	6Vdc via 'AA' battery*4
Sample Type:	Portable production
Operation Frequency	27.145MHz
Modulation Type:	ASK
Antenna Type:	Integral antenna
Antenna Gain:	0dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
The EUT has been tested as an independent unit.						

## 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	± 3%
Field Strength of the Fundamental Signal (15.227(a))	5.06dB (30MHz-1GHz)
Radiated Emissions	5.06dB (30MHz-1GHz)

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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### 4.4 Test Location

All tests were performed at:

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Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

## 4.5 Test Facility

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

#### NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark.

### SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

## CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

### FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

### • ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

### VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 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.: R-12460, C-12584, G-20107 and T-11179 respectively.

### CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

20 dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(9kHz- 3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2021-06-01	2022-05-31
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Radiated Emissions					
Field Strength of the Fu	ndamental Signal (15	.227(a))			
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date
EMI Test Receiver(10Hz- 26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
EMI Test Receiver(9kHz-3GHz)	Rohde & Schwarz	ESCI	EMC0056	2021-01-03	2022-01-02
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)- Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



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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

15.203 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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 6.1.2 Conclusion

#### FUT Antenna

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

Antenna location: Refer to Internal photos



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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

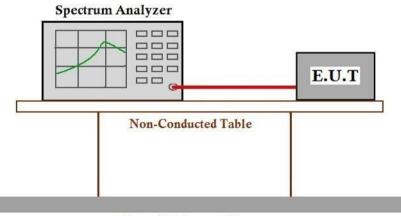
Operating Environment:

Temperature: 24.3 °C Humidity: 51.7 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

### 7.1.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.1.4 Measurement Procedure and Data

Test channel	20dB bandwidth (kHz)	Results
27.145MHz	5.818	Pass



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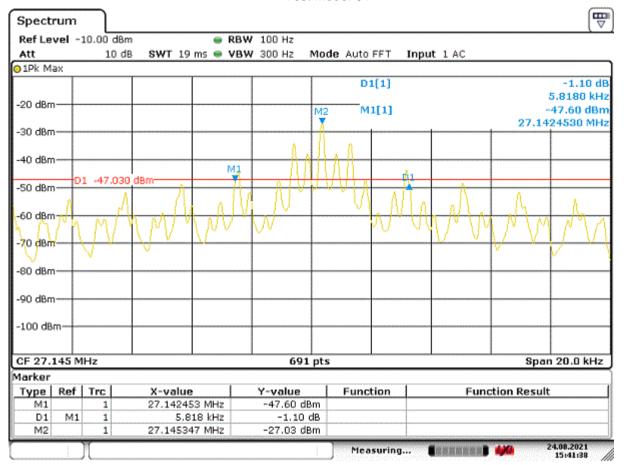
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Test Mode: 01





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## 7.2 Field Strength of the Fundamental Signal (15.227 (a))

Test Requirement 47 CFR Part 15, Subpart C 15.227(a)
Test Method: ANSI C63.10 (2013) Section 6.4

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

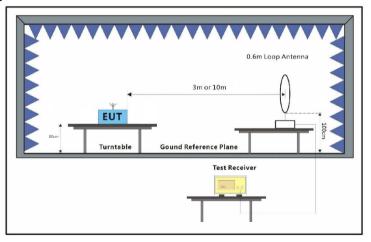
Operating Environment:

Temperature: 24.2 °C Humidity: 54.8 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

## 7.2.3 Test Setup Diagram





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#### 7.2.4 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

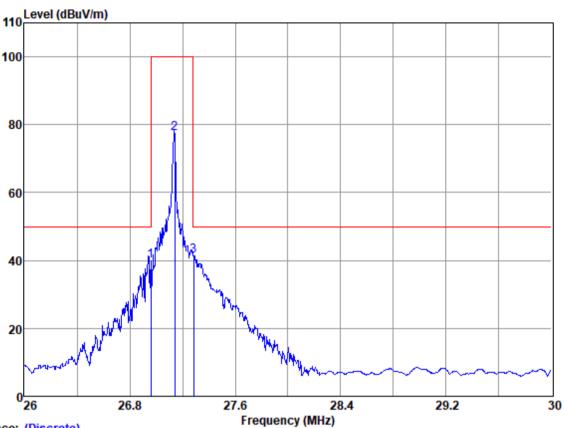




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Test Mode: 00; Polarity: Horizontal



Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq					Measured Level				Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	26.96	60.30	7.85	0.97	29.13	39.99	50.00	-10.01	HORIZONTAL	QP
2	27.14	97.80	7.78	0.98	29.12	77.44	100.00	-22.56	HORIZONTAL	Peak
3	27.28	61.60	7.78	0.98	29.12	41.24	50.00	-8.76	HORIZONTAL	QP



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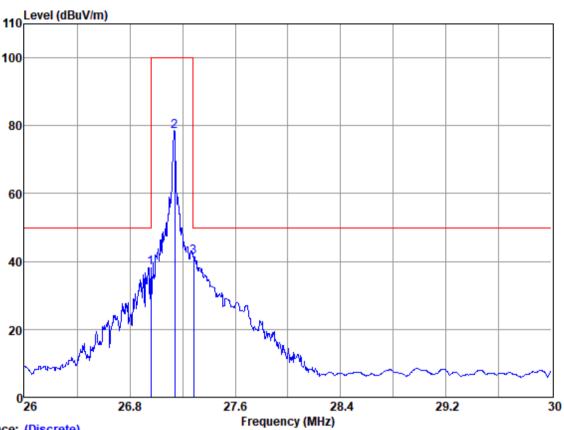
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Test Mode: 00; Polarity: Vertical



Trace: (Discrete)

Site : SGS Job Model Power Test Mode

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	26.96	58.30	7.85	0.97	29.13	37.99	50.00	-12.01	VERTICAL	QP
2	27.14	98.80	7.78	0.98	29.12	78.44	100.00	-21.56	VERTICAL	Peak
3	27.28	61.60	7.78	0.98	29.12	41.24	50.00	-8.76	VERTICAL	QP



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### 7.3 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.227(b) & C 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: 24.2 °C Humidity: 54.8 % RH Atmospheric Pressure: 1010 mbar

### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.



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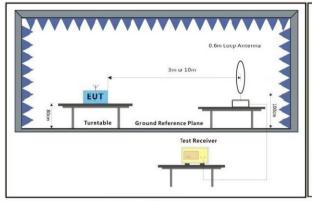
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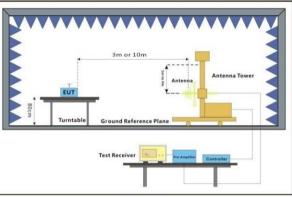


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#### 7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.3.4 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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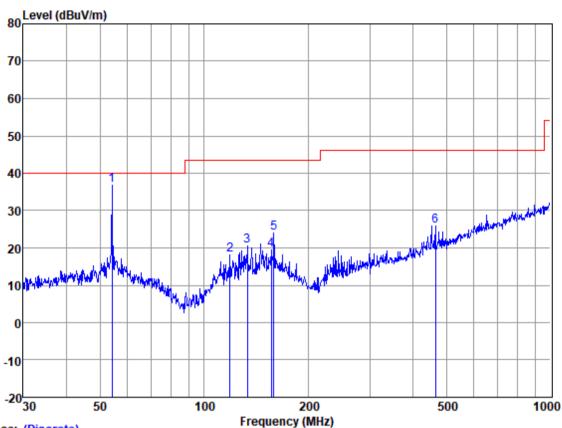
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Test Mode: 00; Polarity: Horizontal



Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	54.07	48.96	13.80	1.18	27.17	36.77	40.00	-3.23	HORIZONTAL	QP
2	118.60	32.50	10.75	1.85	27.04	18.06	43.50	-25.44	HORIZONTAL	QP
3	133.15	33.16	12.40	1.99	26.97	20.58	43.50	-22.92	HORIZONTAL	QP
4	155.91	30.39	13.70	2.30	26.81	19.58	43.50	-23.92	HORIZONTAL	QP
5	158.67	34.69	13.67	2.33	26.80	23.89	43.50	-19.61	HORIZONTAL	QP
6	465.60	31.97	17.40	4.27	27.83	25.81	46.00	-20.19	HORIZONTAL	QP



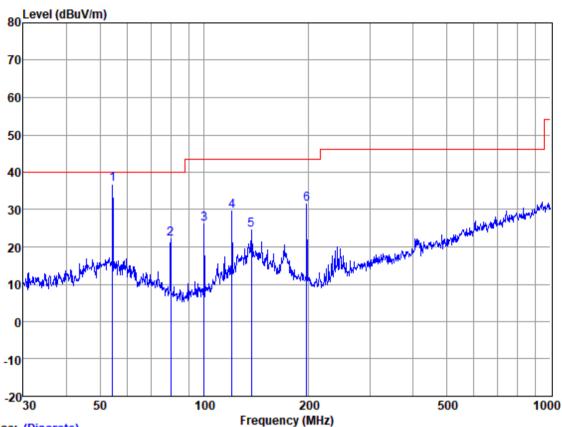
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Test Mode: 00; Polarity: Vertical



Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	54.26	48.96	13.79	1.18	27.17	36.76	40.00	-3.24	VERTICAL	QP
2	80.08	38.93	8.90	1.48	27.10	22.21	40.00	-17.79	VERTICAL	QP
3	99.88	42.29	9.10	1.73	27.08	26.04	43.50	-17.46	VERTICAL	QP
4	120.28	43.93	10.93	1.88	27.03	29.71	43.50	-13.79	VERTICAL	QP
5	136.94	36.41	12.90	2.05	26.95	24.41	43.50	-19.09	VERTICAL	QP
6	197.20	45.12	10.47	2.51	26.73	31.37	43.50	-12.13	VERTICAL	QP

### 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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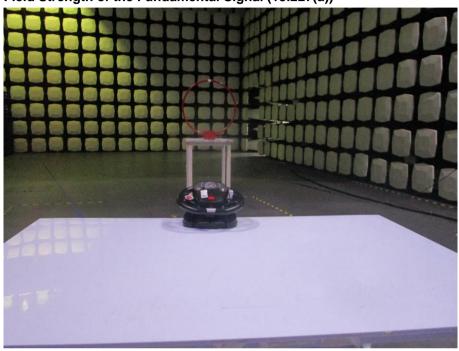


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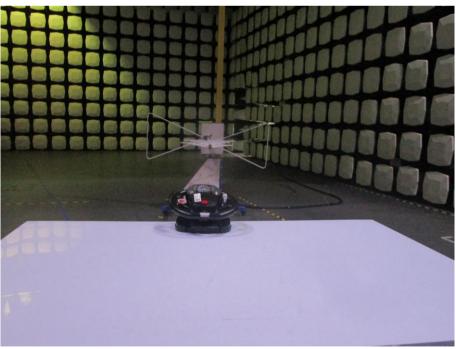
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## 8 Test Setup Photo

Field Strength of the Fundamental Signal (15.227(a))



### **Radiated Emissions**





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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for GZCR2109021057AT

- End of the Report -



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