



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

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
Email: ee.shenzhen@sgs.com

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TEST REPORT

Application No.: SZEM1704003268CR
Applicant: Rastar Group
Address of Applicant: Xinghui Industrial Park, Xiadao Road, Shanghua, Chenghai, Shantou, Guangdong, China.

Equipment Under Test (EUT):

EUT Name: Please refer to section 2 ♣
Model No.: Please refer to section 2 ♣
♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
FCC ID: 2AENTXH170502TX
Standards: 47 CFR Part 15, Subpart C 15.227
Date of Receipt: 2017-04-14
Date of Test: 2017-04-19 to 2017-05-12
Date of Issue: 2017-05-22

Test Result :	Pass*
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* 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	Chapter	Date	Modifier	Remark
01		2017-05-22		Original

Authorized for issue by:				
				
		<hr/>		
		Peter Geng /Project Engineer		
				
		<hr/>		
		Eric Fu /Reviewer		



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 Matter Part				
Item	Standard	Method	Requirement	Result
20dB Bandwidth	47 CFR Part 15, Subpart C 15.227	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 (9kHz-30MHz)	47 CFR Part 15, Subpart C 15.227	ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.227(b) & C 15.209	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart C 15.227	ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.227(b) & C 15.209	Pass

Remark:

Model No.:

72300,14700,15000,26300,26910,27300,30300,30500,30700,31700,32100,
34200,38600,39000,39001,39700,39800,39900,40100,40200,44700,46100,46200,
46300,46400,46500,46600,46700,46800,46900,47000,48100,48200,48300,48400,
48500,48600,48800,48900,71200,71400,71500,71600,71700,71800,71900,72100,
75200,74920,74940,38010,76000,76100,50100,70400,49600,70710,71000,
73400,43000,70800,47500,48000,71010,74500,47600,47300,74100,75000,75100,
49200,42800,74400,75300,38110,70700,74000,75600,75400,71000.

Model No.	Description	Model No.	Description
14700	BMW 645CI	71500	Lamborghini HURACÁN LP610-4
15000	MINI COOPER S	71600	MINI Countryman JCW RX
26300	Lamborghini Superleggera	71700	MINI Countryman
26910	Lamborghini Reventon	71800	Porsche Macan Turbo
27300	Audi Q7	71900	Ferrari 458 Speciale A
30300	Range Rover Sport	72100	Mercedes-AMG GT
30500	Mercedes-Benz G55	72300	AUDI R8 2015 Version



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30700	AUDI TT	75200	McLaren P1
31700	BMW X6	74920	Mercedes-Benz Actros with 1/24 scale Car
32100	Mercedes-Benz GLK	74940	Mercedes-Benz Actros with 1/24 scale Car
34200	Mercedes CL63 AMG	38010	Pagani Zonda R
38600	Audi Q5	76000	Ferrari 488 GTB
39000	Lamborghini Murcielago LP670-4	76100	Bugatti Veyron Chiron
39001	Lamborghini Murcielago LP670-4	50100	Ferrari LaFerrari
39700	BMW Z4	70400	Bugatti Grand Sport Vitesse
39800	PEUGEOT 308	49600	BMW I8
39900	Porsche GT3 RS	70710	PORSCHE 918 Spyder Performance
40100	Mercedes-Benz SLS AMG	71000	BMW i8
40200	Aston Martin DBS	73400	Ferrari 458 Speciale A
44700	Golf GTI	43000	Aventador LP700
46100	Porsche Cayenne Turbo	70800	Lamborghini HURACÁN LP 610-4
46200	Porsche Panamera	47500	AUDI R8
46300	Lamborghini Aventador LP700	48000	BMW M3
46400	Ferrari 599 GTO	71010	BMW i8
46500	Ferrari California	74500	Ferrari 458 Speciale A Convertible Version
46600	Ferrari 458 Italia	47600	Mercedes-Benz SLS AMG
46700	Ferrari FF	47300	Ferrari 458 Italia
46800	AUDI R8	74100	Mercedes AMG GT3 Performance
46900	Range Rover Evoque	75000	McLaren P1 GTR
47000	Bugatti Grand Sport Vitesse	75100	McLaren P1
48100	Ferrari F12	49200	Lamborghini Sesto
48200	Lamborghini Sesto	42800	Porsche GT3
48300	BMW M3	74400	AUDI R8 2015 Version

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48400	BMW I8	75300	AUDI R8 LMS Performance 2015 Version
48500	Range Rover Sport 2013 Version	38110	Pagani Zonda R
48600	Bentley Continental GT speed	70700	PORSCHE 918 Spyder
48800	Mercedes-Benz A-class	74000	Mercedes AMG GT
48900	Ferrari LaFerrari	75600	Ferrari 488 GTB
71200	BMW I3	75400	Pagani Huayra BC
71400	Porsche 918 Spyder	71000	BMW i8

Only the model 72300 (AUDI R8 2015 Version) 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 the article number and appearance modelling, is not the same as on the package.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Remote: DC 3V by 2*1.5V "AA" batteries
Test voltage:	DC 3V
Operation frequency:	27.145MHz
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	Radiated emission	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-6GHz)
2	Temperature test	1 °C
3	Humidity test	3%



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 – 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



5 Equipment List

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

Field Strength of the Fundamental Signal (15.227(a))					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-05-10	2018-05-10
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

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
EMI Test Receiver (9k-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2017-04-14	2018-04-14
Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-17	2016-01-26	2019-01-26
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2016-07-06	2017-07-06
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14



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	2017-05-10	2018-05-10
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

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

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.



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

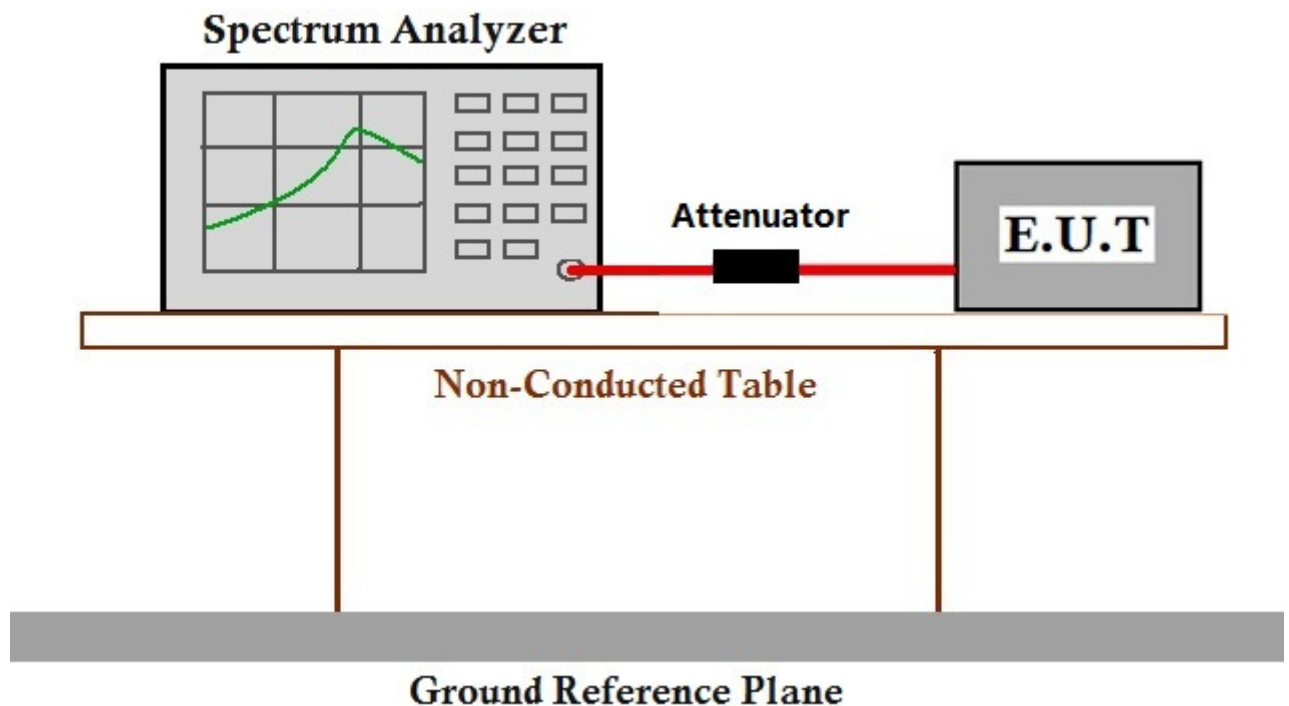
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1015 mbar

Test mode a:TX mode_Keep the EUT in transmitting mode

7.1.2 Test Setup Diagram



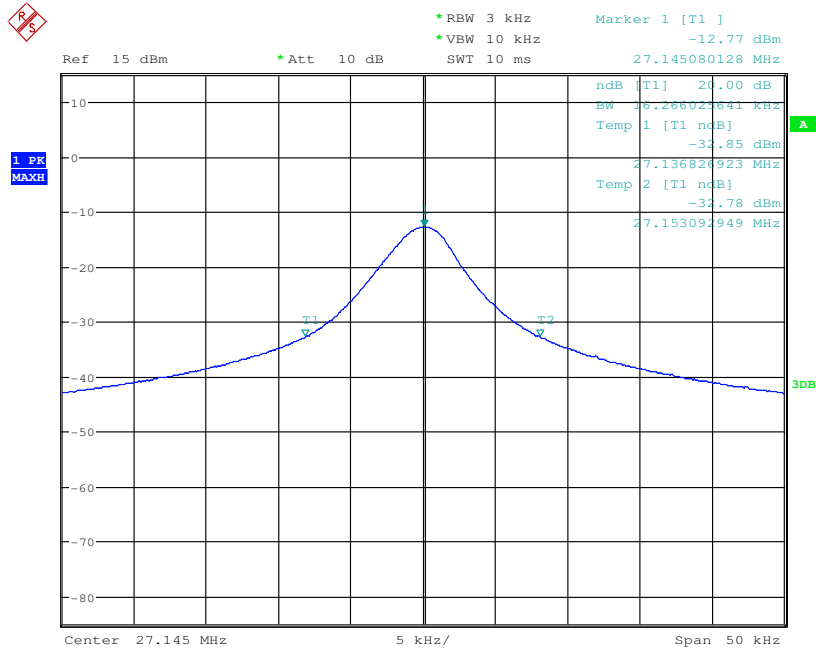
7.1.3 Measurement Procedure and Data



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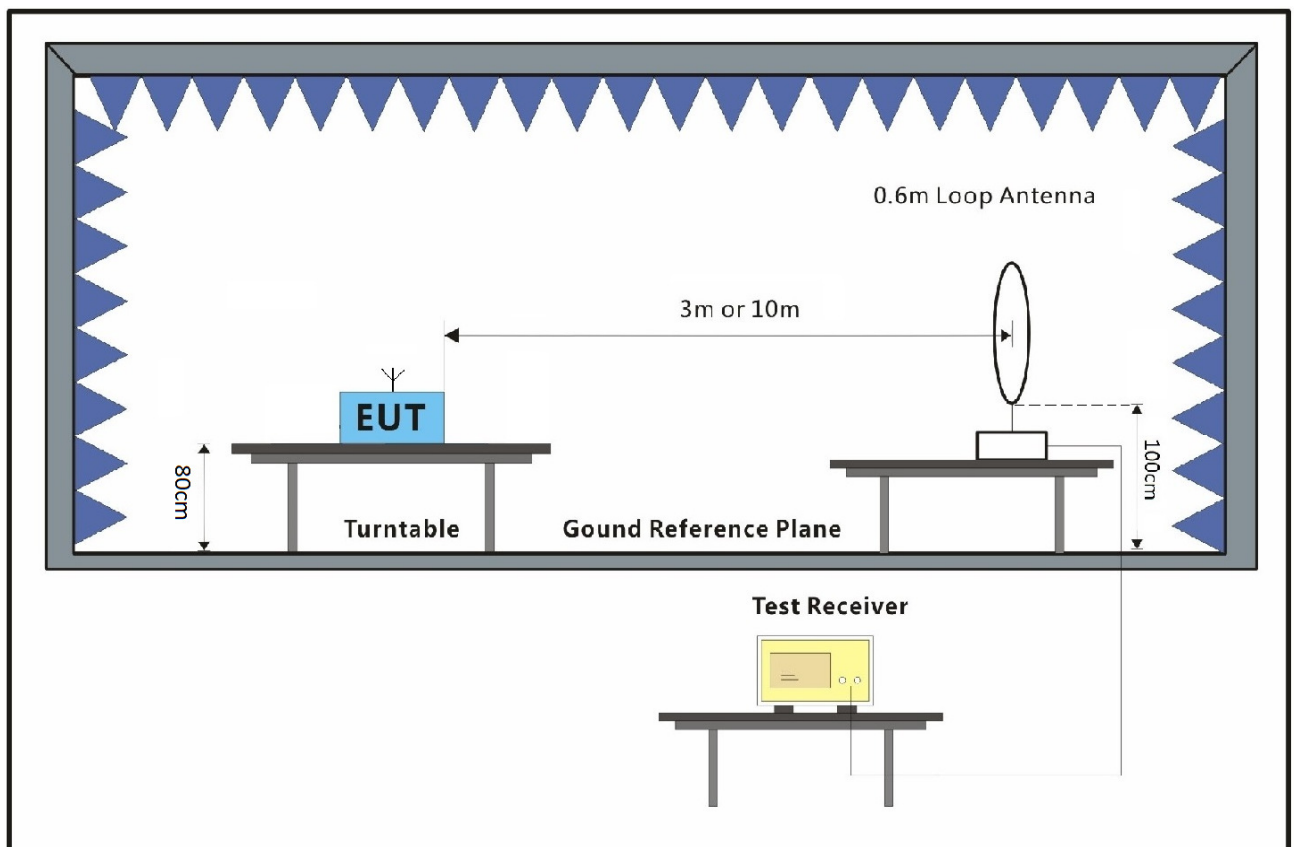
7.2 Field Strength of the Fundamental Signal (15.227(a))

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: 25 °C Humidity: 50 % RH Atmospheric Pressure: 1015 mbar
Test mode a:TX mode_Keep the EUT in transmitting mode

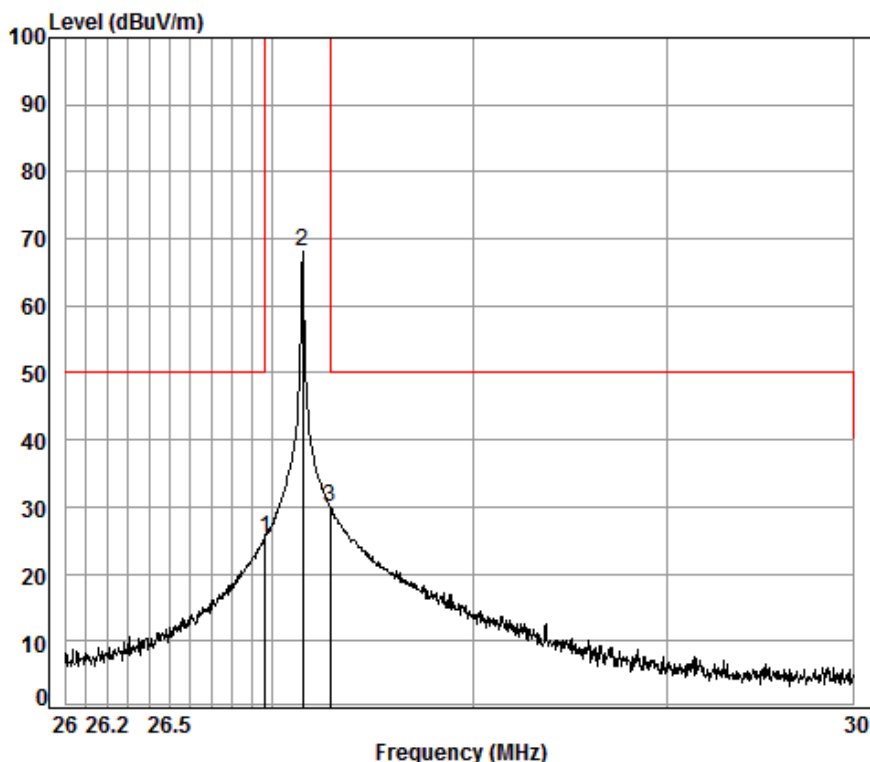
7.2.2 Test Setup Diagram



7.2.3 Measurement 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. Only the worst position of vertical was shown in the report.

Mode:a; Polarization:Horizontal



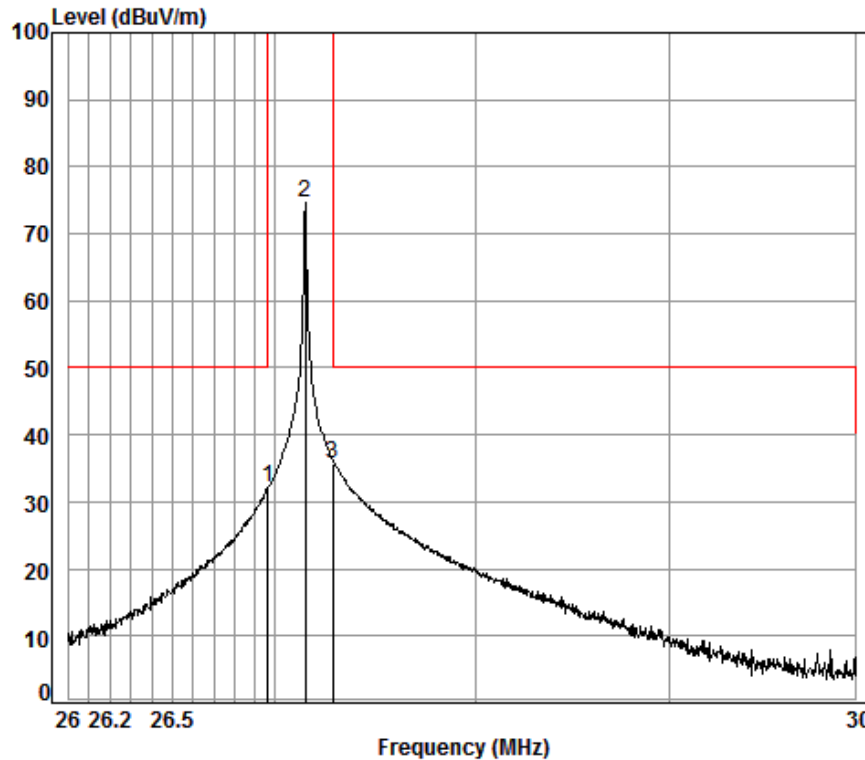
Condition: 3m HORIZONTAL

Job No. : 03268CR

Test Mode: TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	26.96	0.60	20.68	27.37	31.47	25.38	50.00	-24.62
2	27.14	0.60	20.56	27.37	74.43	68.22	100.00	-31.78
3 pp	27.28	0.60	20.47	27.37	36.23	29.93	50.00	-20.07

Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 03268CR

Test Mode: TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	26.96	0.60	20.68	27.37	38.23	32.14	50.00	-17.86
2	27.14	0.60	20.56	27.37	80.97	74.76	100.00	-25.24
3 pp	27.28	0.60	20.47	27.37	42.10	35.80	50.00	-14.20

As shown in this section, the field strength limits of the fundamental 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 above measurement data were shown in the report.



7.3 Radiated Emissions(9kHz-30MHz)

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: 10m

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.

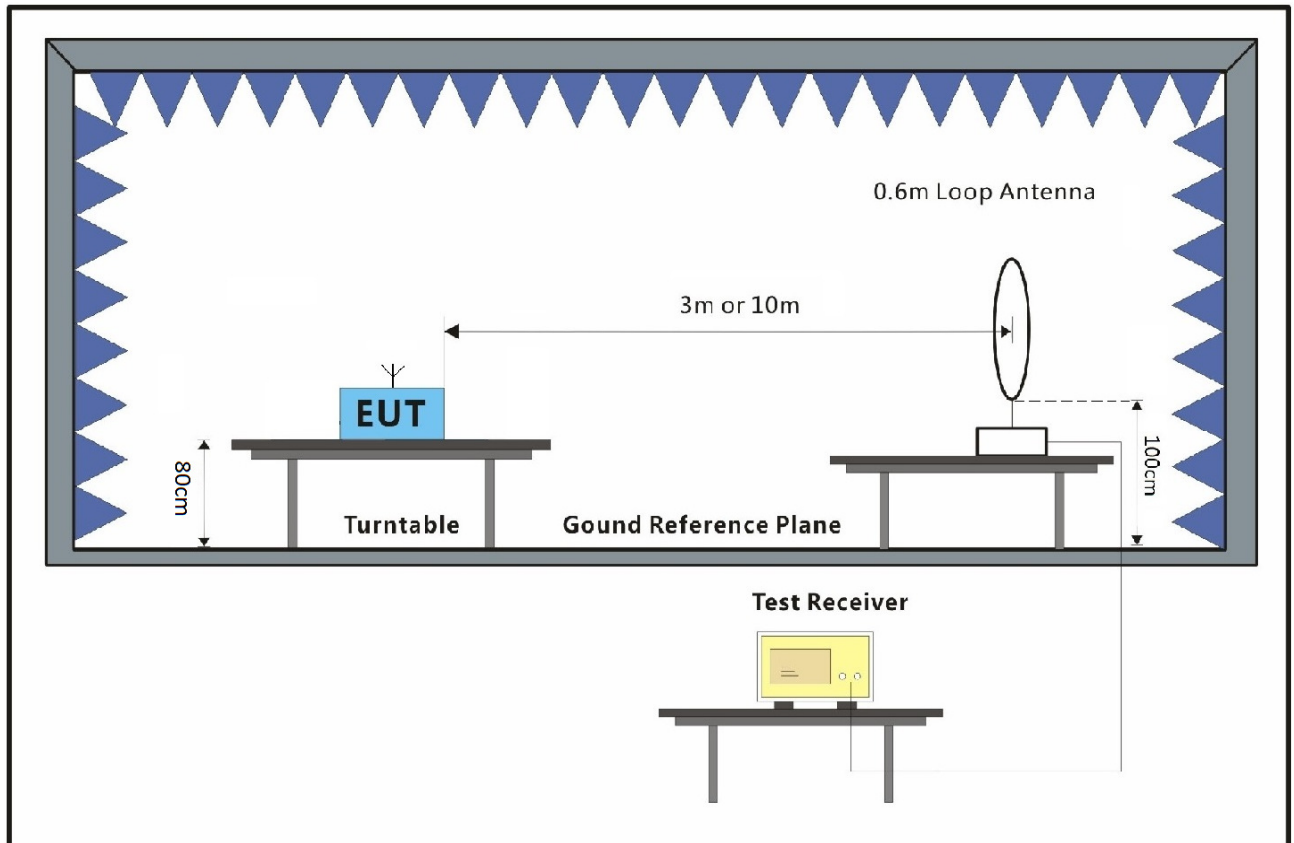
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

Test mode a:TX mode_Keep the EUT in transmitting mode

7.3.2 Test Setup Diagram



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. Only the worst position of vertical was shown in the report.

Remark: Test was conducted from 9 kHz to 30MHz and the least margin will be more than 10 dB to the limit, so it is not recorded in the report.



7.4 Radiated Emissions(30MHz-1GHz)

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)
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.

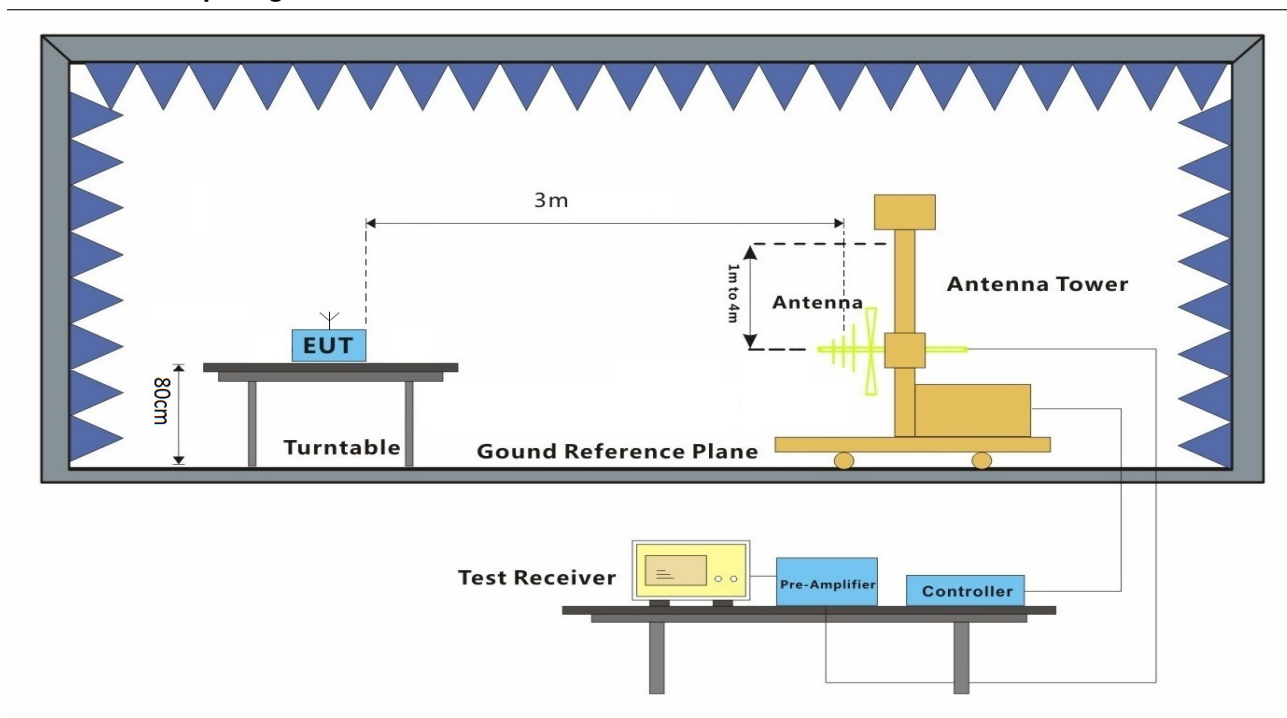
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 50 % RH Atmospheric Pressure: 1015 mbar

Test mode a:TX mode_Keep the EUT in transmitting mode

7.4.2 Test Setup Diagram

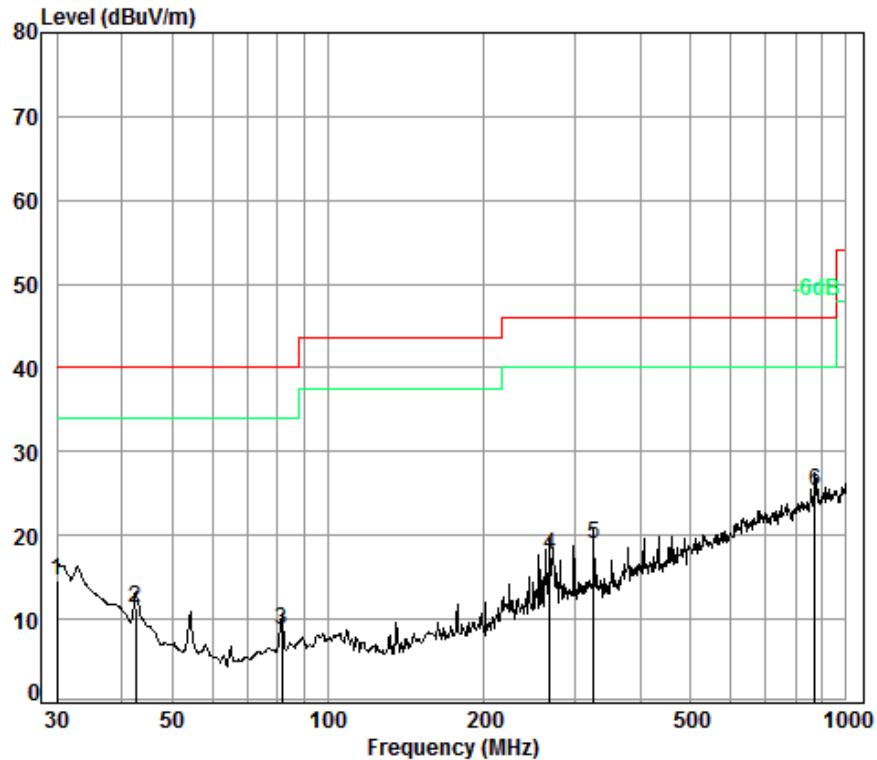


7.4.3 Measurement Procedure and Data

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- 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.



Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

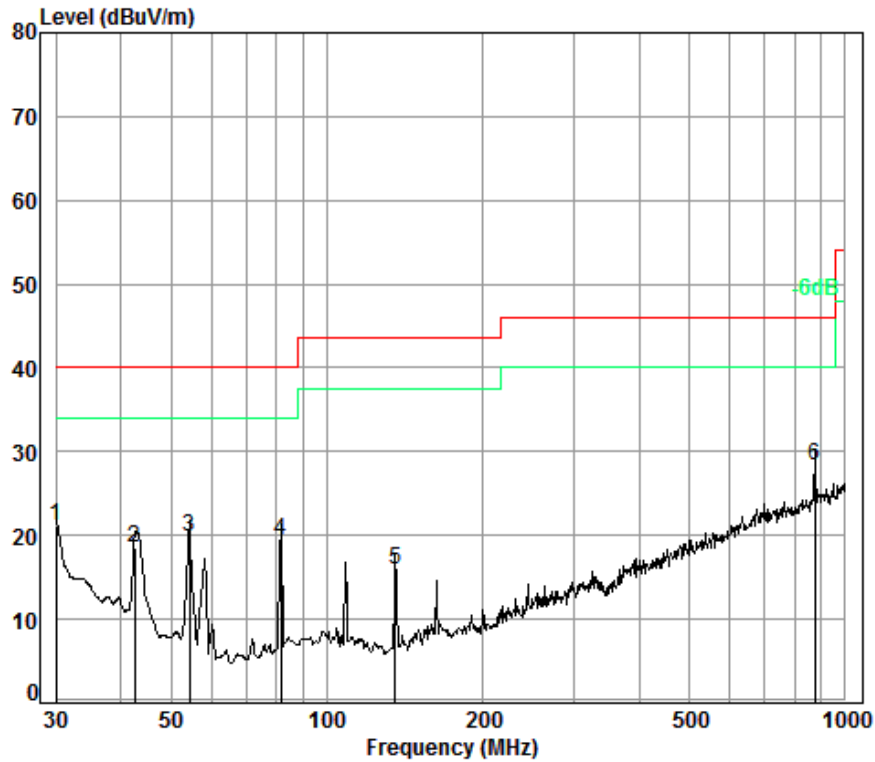
Job No. : 03268CR

Test Mode: TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	18.70	27.36	22.61	14.55	40.00	-25.45
2	42.60	0.66	11.96	27.31	26.09	11.40	40.00	-28.60
3	81.50	1.10	7.85	27.23	26.91	8.63	40.00	-31.37
4	267.55	1.76	12.65	26.49	29.78	17.70	46.00	-28.30
5	325.60	1.98	14.78	26.60	28.73	18.89	46.00	-27.11
6 pp	869.13	3.48	22.86	26.92	25.96	25.38	46.00	-20.62



Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 03268CR

Test Mode: TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	18.70	27.36	29.19	21.13	40.00	-18.87
2	42.60	0.66	11.96	27.31	33.26	18.57	40.00	-21.43
3	54.26	0.80	8.06	27.28	38.27	19.85	40.00	-20.15
4	81.50	1.10	7.85	27.23	37.61	19.33	40.00	-20.67
5	135.51	1.29	7.92	26.98	33.67	15.90	43.50	-27.60
6 pp	875.25	3.51	23.00	26.89	28.67	28.29	46.00	-17.71

8 Photographs

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



8.2 Radiated Emissions(9kHz-30MHz) Test Setup





8.3 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1704003268CR.