

TEST REPORT

Application No.: SZCR2602000532ET
Applicant: Runlong Technology (Shantou) Co., Ltd.
Address of Applicant: Auxiliary Road of Shanbei Avenue, Fengxin Industrial Zone, Fengxiang Street, Chenghai District, Shantou City, Guangdong Province, China
Manufacturer: Runlong Technology (Shantou) Co., Ltd.
Address of Manufacturer: Auxiliary Road from Xiushui Road to Shanbei Avenue, Fengxin Industrial Zone, Fengxiang Street, Chenghai District, Shantou City, Guangdong Province, China.
Factory: Runlong Technology (Shantou) Co., Ltd.
Address of Factory: Auxiliary Road from Xiushui Road to Shanbei Avenue, Fengxin Industrial Zone, Fengxiang Street, Chenghai District, Shantou City, Guangdong Province, China.

Equipment Under Test (EUT):

EUT Name: Remote control Toys
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: 2AIOGR-651S653S
Standard(s) : 47 CFR Part 15, Subpart C 15.249
Date of Receipt: 2026-02-03
Date of Test: 2026-02-05 to 2026-02-12
Date of Issue: 2026-02-28

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager





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

SZEMC-TRF-01 Rev. A/2

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-02-28		Original

Authorized for issue by:				
		Martin Li		
		Martin Li/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 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2020) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
Radiated Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass

Declaration of EUT Family Grouping:

Model No.: R-650S,R-650,R-651S,R-651,R-652S,R-652,R-653S,R-653,R-654S,R-654,R-655S,R-655,R-656S,R-656,R-657S,R-657,R-658S,R-658, R-659S,R-659,R-660S,R-660,R-661S,R-661,R-662S,R-662,R-663S,R-663,R-664S,R-664,R-665S,R-665,R-666S,R-666,R-667S,R-667,

R-668S,R-668,R-669S,R-669,R-760S,R-760,R-761S,R-761,R-762S,R-762,R-763S,R-763,R-764S,R-764,R-765S,R-765,R-766S,R-766,R-767S,R-767,R-768S,R-768,R-769S,R-769,R-680S,R-680,R-681S,

R-681,R-682S,R-682,R-683S,R-683,R-684S,R-684,R-685S,R-685,R-686S,R-686,R-687S,R-687,R-688S,R-688,R-689S,R-689,R-780S,R-780,R-781S,R-781,R-782S,R-782,R-783S,R-783,R-784S,R-784,

R-785S,R-785,R-786S,R-786,R-787S,R-787,R-788S,R-788,R-789S,R-789

Only the model R-651S was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on product appearance color, shap, packaging and model NO..



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4 General Information

4.1 Details of E.U.T.

Power supply:	3.0V DC (1.5V x2"AAA" Size Batteries) for remote controller
Operation Frequency:	2410MHz to 2473MHz
Modulation Type:	GFSK
Number of Channels:	6
Antenna Type:	Monopole antenna
Antenna Gain:	0dbi

Channel List:

1	2410	2	2415
3	2427	4	2437
5	244	6	2473

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
RF cable	supplied by SGS	N/A(cable loss:0.6dB)	REF. No.SEL000089

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Field Strength of the Fundamental Signal (15.249(a))	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Restricted Band Around Fundamental Frequency	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1GHz-18GHz); $\pm 4.8\text{dB}$ (18MHz-40GHz)
20dB Bandwidth	$\pm 0.3\%$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI 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:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, 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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• 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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5 Equipment List

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

Radiated Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04



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Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-12-16	2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2026-02-03	2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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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

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.

EUT 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



7 Radio Spectrum Matter Test Results

7.1 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
 Test Method: ANSI C63.10 (2020) Section 6.5&6.6
 Measurement Distance: 3m
 Test Engineer: Xing Guo

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz 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.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

7.1.1 E.U.T. Operation

Operating Environment:

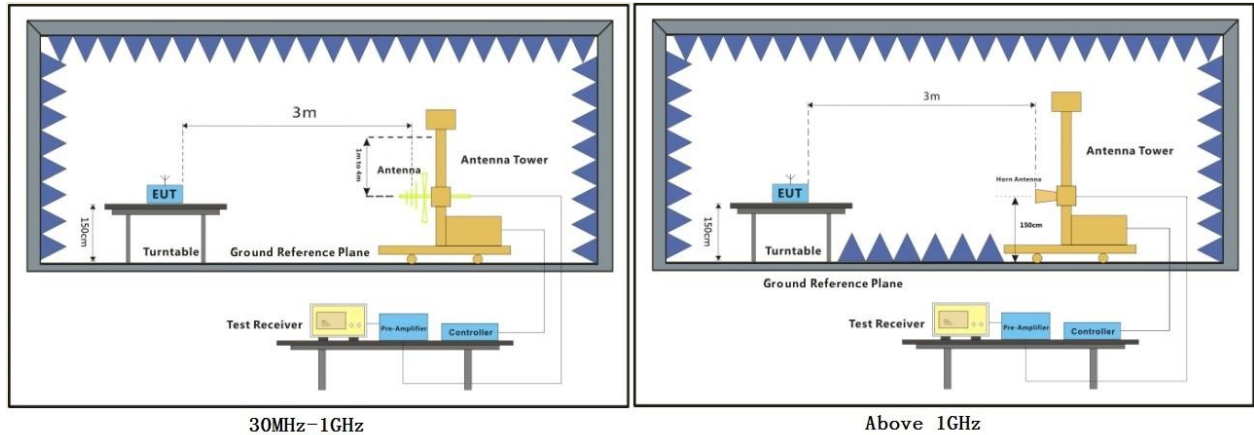
Temperature: 24.5 °C Humidity: 50.1 % RH Atmospheric Pressure: 1020 mbar

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.



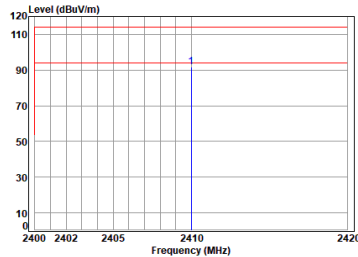
7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - The EUT was set 3 or 10 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.
 - Test the EUT in the lowest channel, the middle channel, the Highest channel.
 - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
 - Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

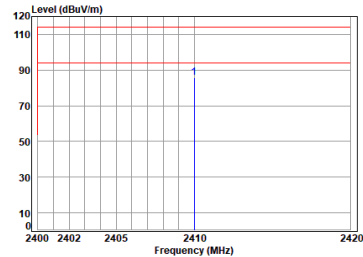
2.4G_SRD_LOW_TX_Horizontal



Condition: 3m HORIZONTAL
Job No : 00532ET
Mode : 2410 Field strength
: 2.4G SRD

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2410.000	6.90	27.72	30.60	87.58	91.60	114.00	-22.40	Peak	0.00

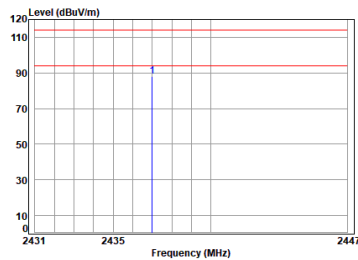
2.4G_SRD_LOW_TX_Vertical



Condition: 3m VERTICAL
Job No : 00532ET
Mode : 2410 Field strength
: 2.4G SRD

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2410.000	6.90	27.72	30.60	81.85	85.87	114.00	-28.13	Peak	0.00

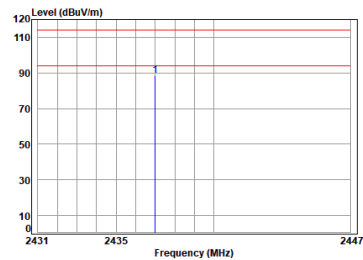
2.4G_SRD_MID_TX_Horizontal



Condition: 3m HORIZONTAL
Job No : 00532ET
Mode : 2437 Field strength
: 2.4G SRD

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2437.000	7.08	27.77	30.60	83.89	88.14	114.00	-25.86	Peak	0.00

2.4G_SRD_MID_TX_Vertical

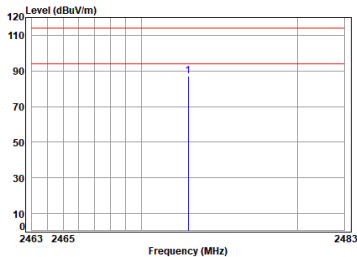


Condition: 3m VERTICAL
Job No : 00532ET
Mode : 2437 Field strength
: 2.4G SRD

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2437.000	7.08	27.77	30.60	84.14	88.39	114.00	-25.61	Peak	0.00



2.4G_SRD_HIGH_TX_Horizontal



Condition: 3m HORIZONTAL

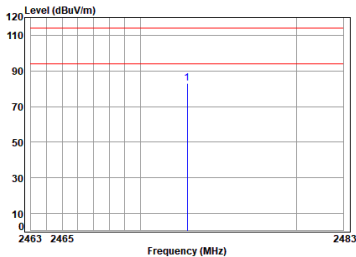
Job No : 00532ET

Mode : 2473 Field strength

: 2.4G SRD

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 pp 2473.000	7.33	27.89	30.60	82.43	87.05	114.00 -26.95 Peak	0.00

2.4G_SRD_HIGH_TX_Vertical



Condition: 3m VERTICAL

Job No : 00532ET

Mode : 2473 Field strength

: 2.4G SRD

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 pp 2473.000	7.33	27.89	30.60	78.36	82.98	114.00 -31.02 Peak	0.00

7.2 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.10.5
 Measurement Distance: 3m
 Test Engineer: Xing Guo

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

7.2.1 E.U.T. Operation

Operating Environment:

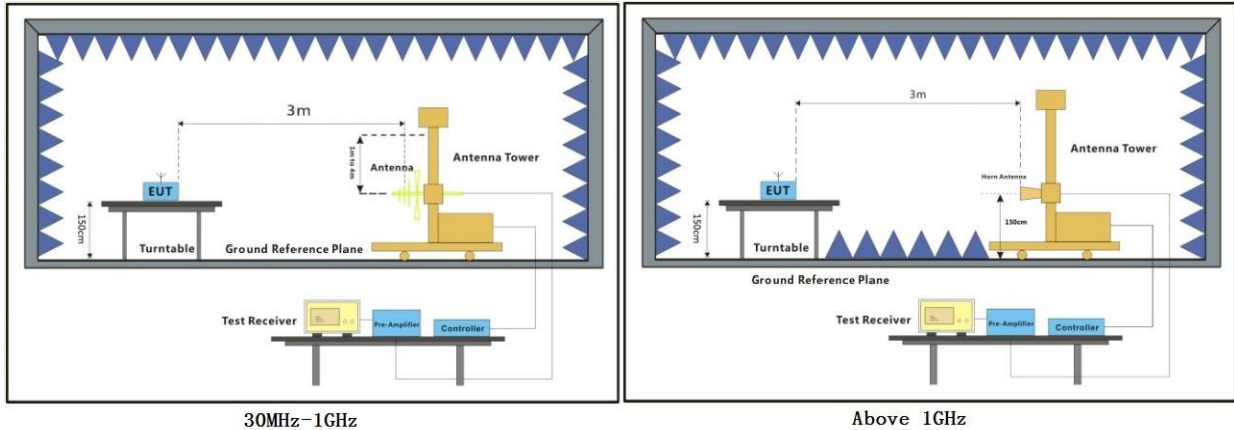
Temperature: 24.6 °C Humidity: 50.1 % RH Atmospheric Pressure: 1020 mbar

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.



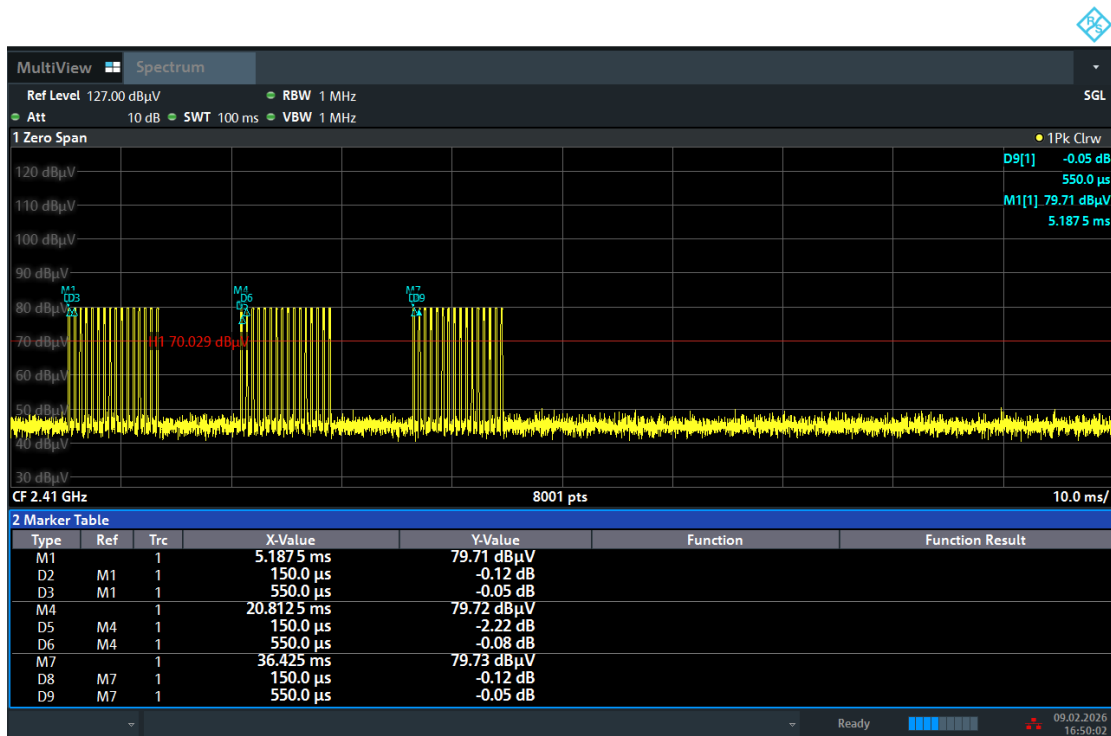
7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

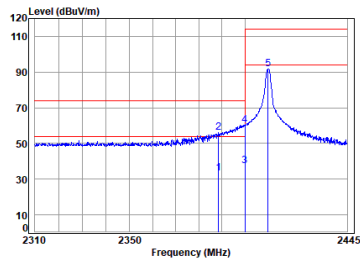
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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customize			
On time(ms)	T(ms)	Duty cycle(%)	Duty factor
7.2	100	0.0720	-22.85

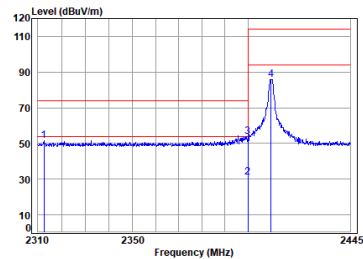
2.4G_SRD_LOW_TX_Horizontal



Condition: 3m HORIZONTAL
Job No : 00532ET
Mode : 2410 Band edge
: 2.4G SRD

	Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
							dBuV/m	dB	dB	
1	2388.458	6.82	27.68	30.60		29.21	33.11	54.00	-20.89	Average
2	2388.458	6.82	27.68	30.60		52.06	55.96	74.00	-18.04	Peak
3	av 2400.000	6.83	27.70	30.60		33.39	37.32	54.00	-16.68	Average
4	pp 2400.000	6.83	27.70	30.60		56.24	60.17	74.00	-13.83	Peak
5	2410.000	6.90	27.72	30.60		87.58	91.60	114.00	-22.40	Peak

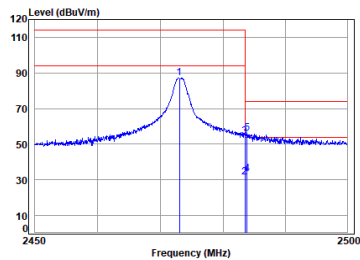
2.4G_SRD_LOW_TX_Vertical



Condition: 3m VERTICAL
Job No : 00532ET
Mode : 2410 Band edge
: 2.4G SRD

	Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
							dBuV/m	dB	dB	
1	2312.404	6.79	27.68	30.60		47.89	51.68	74.00	-22.32	Peak
2	av 2400.000	6.83	27.70	30.60		27.24	31.17	54.00	-22.83	Average
3	pp 2400.000	6.83	27.70	30.60		50.09	54.02	74.00	-19.98	Peak
4	2410.000	6.90	27.72	30.60		81.85	85.87	114.00	-28.13	Peak

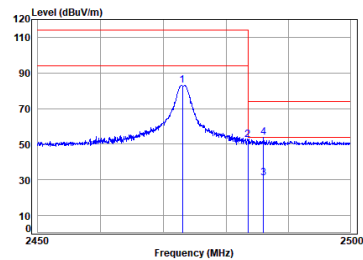
2.4G_SRD_HIGH_TX_Horizontal



Condition: 3m HORIZONTAL
Job No : 00532ET
Mode : 2473 Band edge
: 2.4G SRD

	Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
							dBuV/m	dB	dB	
1	2473.000	7.33	27.89	30.60		82.43	87.05	114.00	-26.95	Peak
2	2483.500	7.40	27.93	30.60		26.90	31.63	54.00	-22.37	Average
3	2483.500	7.40	27.93	30.60		49.75	54.48	74.00	-19.52	Peak
4	av 2483.898	7.40	27.94	30.60		28.47	33.21	54.00	-20.79	Average
5	pp 2483.898	7.40	27.94	30.60		51.32	56.06	74.00	-17.94	Peak

2.4G_SRD_HIGH_TX_Vertical



Condition: 3m VERTICAL
Job No : 00532ET
Mode : 2473 Band edge
: 2.4G SRD

	Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
							dBuV/m	dB	dB	
1	2473.000	7.33	27.89	30.60		78.36	82.98	114.00	-31.02	Peak
2	2483.500	7.40	27.93	30.60		47.72	52.45	74.00	-21.55	Peak
3	av 2486.049	7.42	27.94	30.60		26.40	31.16	54.00	-22.84	Average
4	pp 2486.049	7.42	27.94	30.60		49.25	54.01	74.00	-19.99	Peak



7.3 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2020) Section 6.4&6.5
 Measurement Distance: 3m
 Test Engineer: Kaito Zeng

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
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

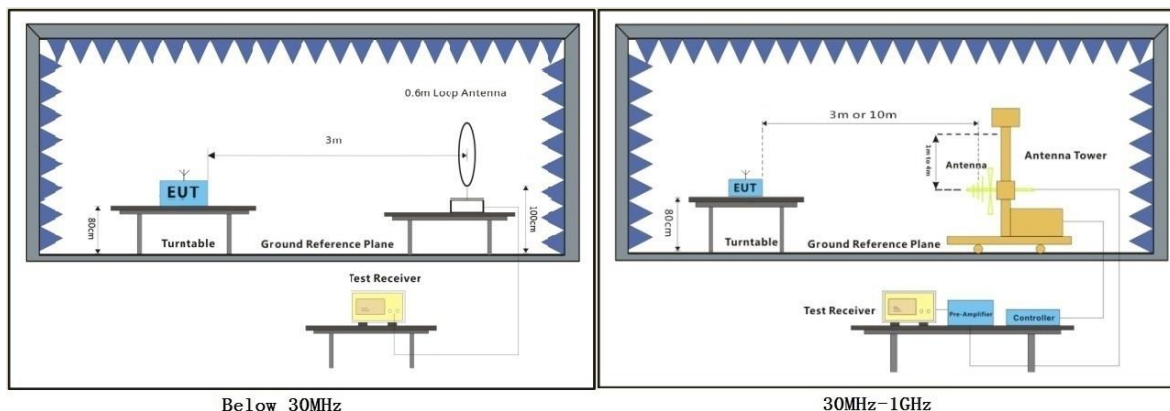
Temperature: 23.5 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

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.



7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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 quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only below points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

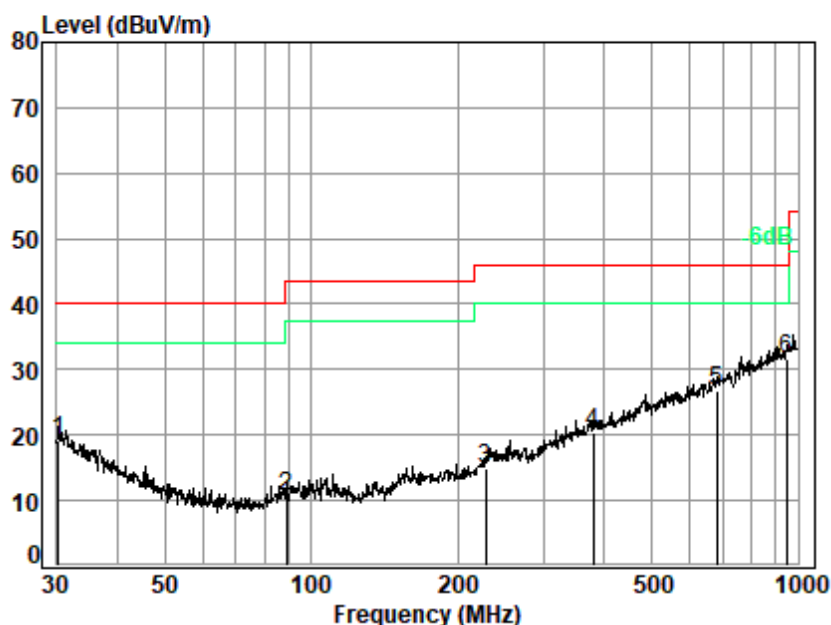
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SZEMC-TRF-01 Rev. A/2

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Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00532ET
Test Mode: 00

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.211	21.34	0.74	27.65	24.74	19.17	40.00	-20.83 QP
2	88.964	11.69	1.17	27.61	25.38	10.63	43.50	-32.87 QP
3	227.691	16.33	1.83	27.70	24.37	14.83	46.00	-31.17 QP
4	379.914	20.45	2.42	27.70	25.19	20.36	46.00	-25.64 QP
5	682.348	25.64	3.36	27.88	25.78	26.90	46.00	-19.10 QP
6 q	945.440	29.06	4.07	26.70	25.28	31.71	46.00	-14.29 QP



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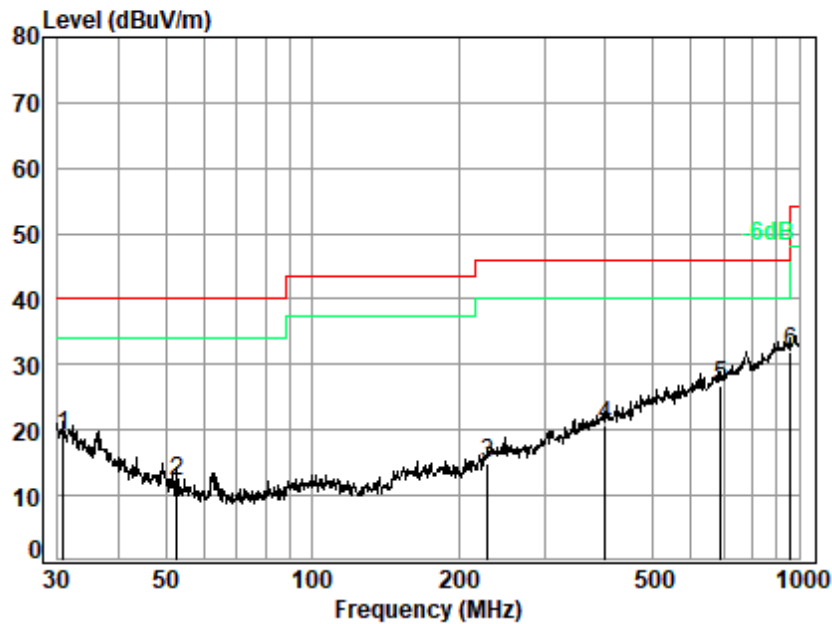
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260200053202

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Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00532ET
Test Mode: 00

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level dBuV	Limit dBuV/m	Over Line	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB	
1	30.853	21.01	0.75	27.65	25.20	19.31	40.00	-20.69 QP
2	52.760	12.49	0.91	27.63	26.38	12.15	40.00	-27.85 QP
3	229.293	16.60	1.84	27.70	24.27	15.01	46.00	-30.99 QP
4	400.432	20.48	2.49	27.75	25.56	20.78	46.00	-25.22 QP
5	691.987	25.72	3.39	27.85	25.54	26.80	46.00	-19.20 QP
6 q	958.794	29.31	4.09	26.63	25.20	31.97	46.00	-14.03 QP



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7.4 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2020) Section 6.6
 Measurement Distance: 3m
 Test Engineer: Xing Guo

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

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



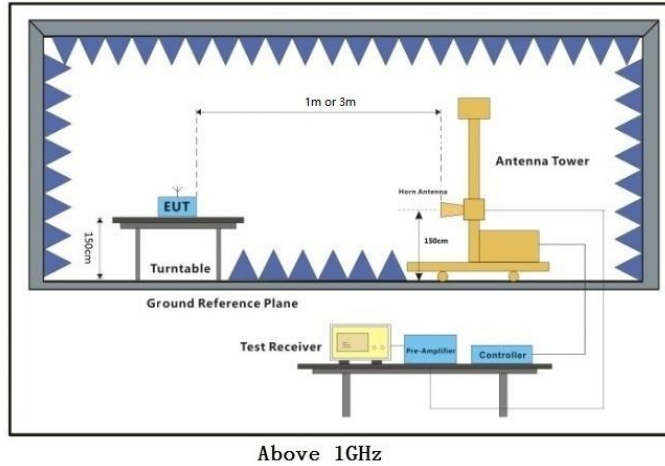
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

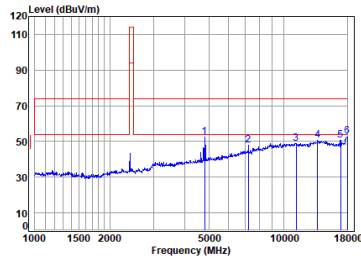
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m 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. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 18GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



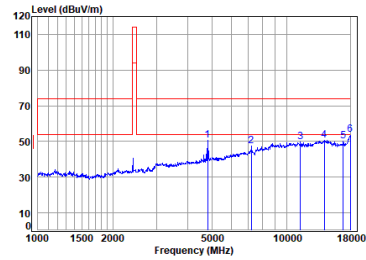
2.4G_SRD_LOW_TX_Horizontal



Condition: 3m HORIZONTAL
Job No : 00532ET
Mode : 2410 TX RSE
: 2.4G SRD

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 4818.016	8.92	32.67	55.93	66.99	52.65	74.00	-21.35 Peak
2 7221.150	11.10	36.96	56.36	56.26	47.96	74.00	-26.04 Peak
3 11237.330	14.30	39.46	53.43	48.70	49.03	74.00	-24.97 Peak
4 13677.970	16.04	40.32	54.01	48.20	50.55	74.00	-23.45 Peak
5 16939.940	19.22	38.68	53.89	46.54	50.55	74.00	-23.45 Peak
6 pp18000.000	18.64	42.60	54.30	46.10	53.04	74.00	-20.96 Peak

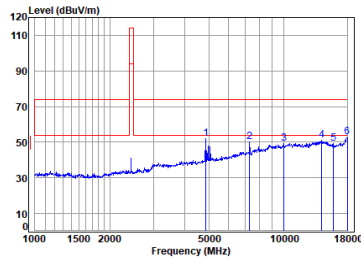
2.4G_SRD_LOW_TX_Vertical



Condition: 3m VERTICAL
Job No : 00532ET
Mode : 2410 TX RSE
: 2.4G SRD

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 4818.016	8.92	32.67	55.93	65.83	50.69	74.00	-23.31 Peak
2 7221.150	11.10	36.96	56.36	55.82	47.52	74.00	-26.48 Peak
3 11335.190	14.29	39.36	53.40	49.53	49.78	74.00	-24.22 Peak
4 14160.710	16.53	40.46	54.10	47.82	50.71	74.00	-23.29 Peak
5 16891.040	19.64	38.60	53.88	45.76	50.12	74.00	-23.88 Peak
6 pp18000.000	18.64	42.60	54.30	46.73	53.67	74.00	-20.33 Peak

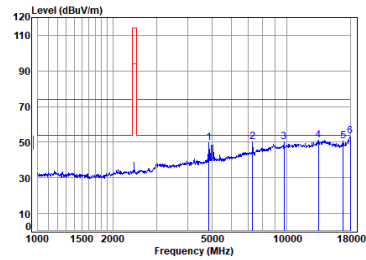
2.4G_SRD_MID_TX_Horizontal



Condition: 3m HORIZONTAL
Job No : 00532ET
Mode : 2437 TX RSE
: 2.4G SRD

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 4874.043	8.97	32.85	55.99	66.23	52.06	74.00	-21.94 Peak
2 7305.122	11.11	36.90	56.31	58.55	50.25	74.00	-23.75 Peak
3 10010.420	12.90	38.90	53.60	51.16	49.36	74.00	-24.64 Peak
4 14242.800	16.83	40.46	54.10	47.70	50.89	74.00	-23.11 Peak
5 15850.410	17.02	38.50	53.76	47.68	49.44	74.00	-24.56 Peak
6 pp18000.000	18.64	42.60	54.30	46.10	53.04	74.00	-20.96 Peak

2.4G_SRD_MID_TX_Vertical

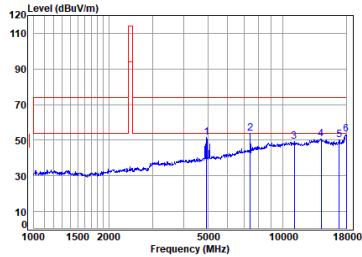


Condition: 3m VERTICAL
Job No : 00532ET
Mode : 2437 TX RSE
: 2.4G SRD

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 4874.043	8.97	32.85	55.99	63.92	49.75	74.00	-24.25 Peak
2 7305.122	11.11	36.90	56.31	58.31	50.01	74.00	-23.99 Peak
3 9753.371	12.82	38.41	53.86	52.63	50.00	74.00	-24.00 Peak
4 13404.010	15.67	40.50	53.92	48.77	51.02	74.00	-22.98 Peak
5 16891.040	19.64	38.60	53.88	46.36	50.72	74.00	-23.28 Peak
6 pp18000.000	18.64	42.60	54.30	46.30	53.24	74.00	-20.76 Peak



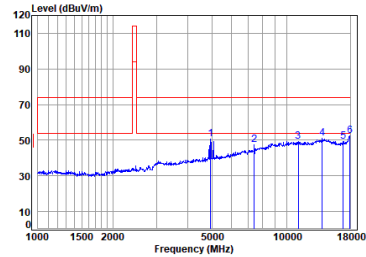
2.4G_SRD_HIGH_TX_Horizontal



Condition: 3m HORIZONTAL
Job No : 00532ET
Mode : 2473 TX RSE
: 2.4G SRD

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1	4944.993	9.05	33.08	56.05	65.52	51.60	74.00	-22.40	Peak	0.00
2	7411.461	11.16	36.72	56.24	62.02	53.66	74.00	-20.34	Peak	0.00
3	11140.310	14.17	39.38	53.46	49.05	49.14	74.00	-24.86	Peak	0.00
4	14294.830	17.00	40.42	54.10	47.32	50.64	74.00	-23.36	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.68	50.04	74.00	-23.96	Peak	0.00
6	18000.000	18.64	42.60	54.30	46.50	53.44	74.00	-20.56	Peak	0.00

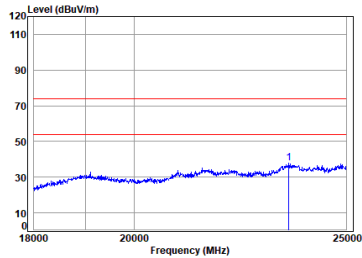
2.4G_SRD_HIGH_TX_Vertical



Condition: 3m VERTICAL
Job No : 00532ET
Mode : 2473 TX RSE
: 2.4G SRD

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1	4944.993	9.05	33.08	56.05	64.35	50.43	74.00	-23.57	Peak	0.00
2	7411.461	11.16	36.72	56.24	55.80	47.44	74.00	-26.56	Peak	0.00
3	11140.310	14.17	39.38	53.46	49.19	49.28	74.00	-24.72	Peak	0.00
4	13877.000	15.74	40.22	54.06	49.06	50.96	74.00	-23.04	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.10	49.46	74.00	-24.54	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	45.56	52.32	74.00	-21.68	Peak	0.00

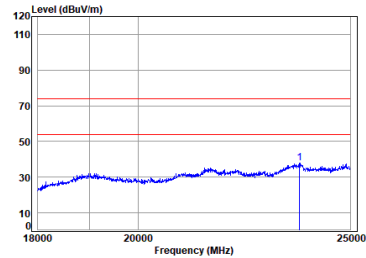
2.4G_SRD_LOW_TX_Horizontal



Condition: 3m HORIZONTAL
Job No : 00532ET
Mode : 2410 TX RSE
: 2.4G SRD

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1	pp23533.640	6.76	38.37	50.31	52.52	37.80	74.00	-36.20	Peak	-9.54

2.4G_SRD_LOW_TX_Vertical



Condition: 3m VERTICAL
Job No : 00532ET
Mode : 2410 TX RSE
: 2.4G SRD

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1	pp23704.340	6.77	38.71	50.34	52.34	37.94	74.00	-36.06	Peak	-9.54



7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10 (2020) Section 6.9
 Test Engineer: Linvo Ding

7.5.1 E.U.T. Operation

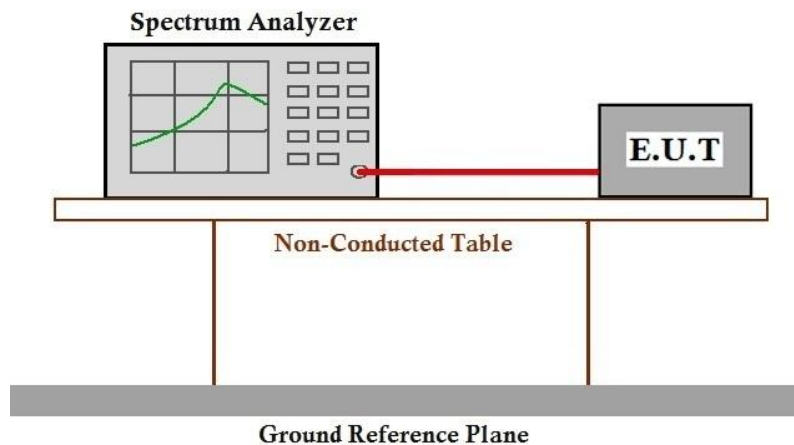
Operating Environment:

Temperature: 28.0 °C Humidity: 48.7 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

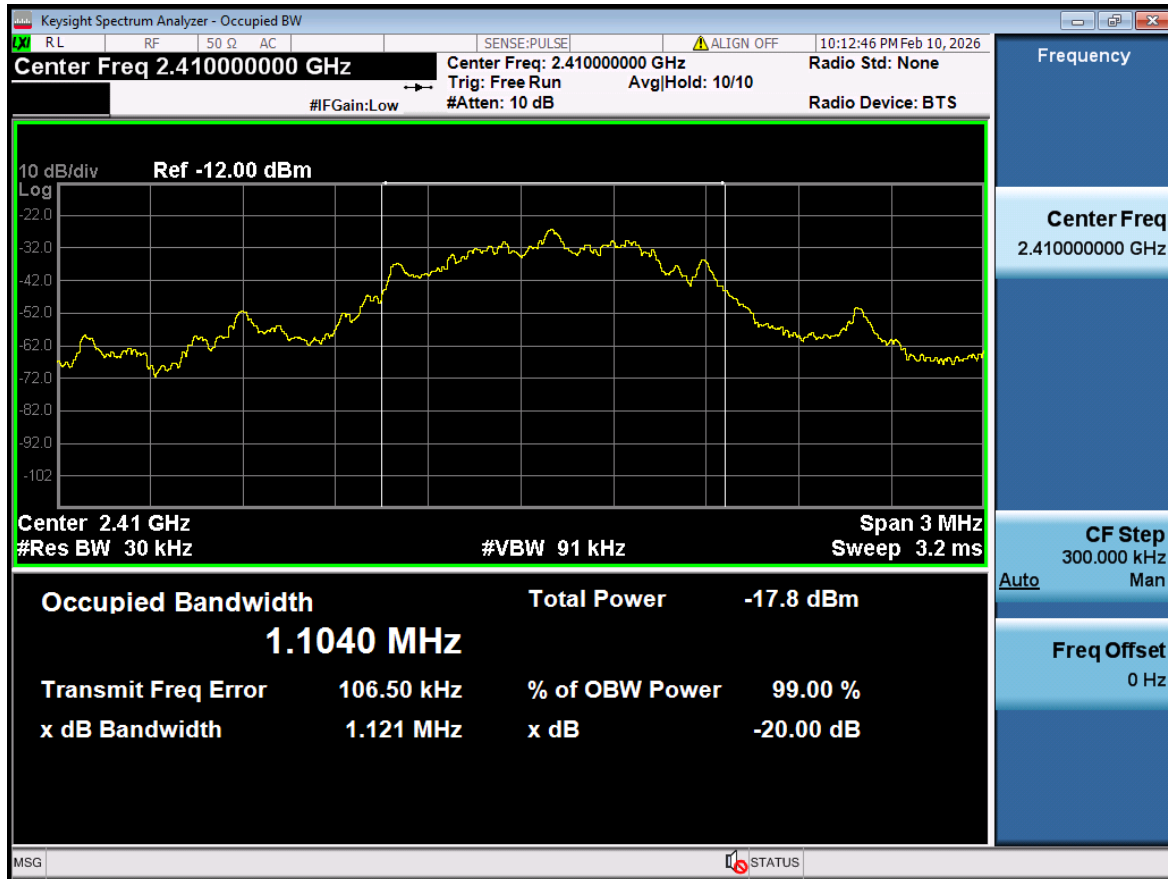
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

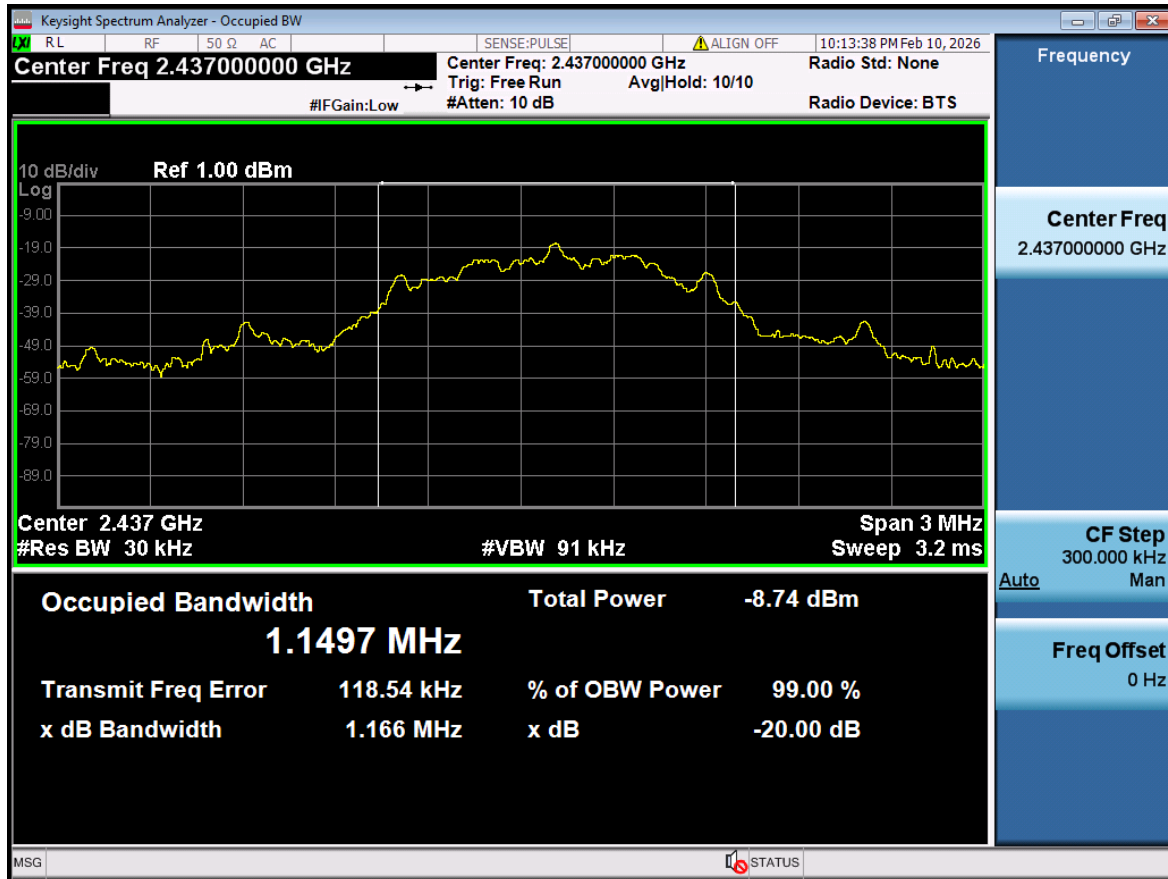
Report No.: SZCR260200053202

Page: 29 of 32

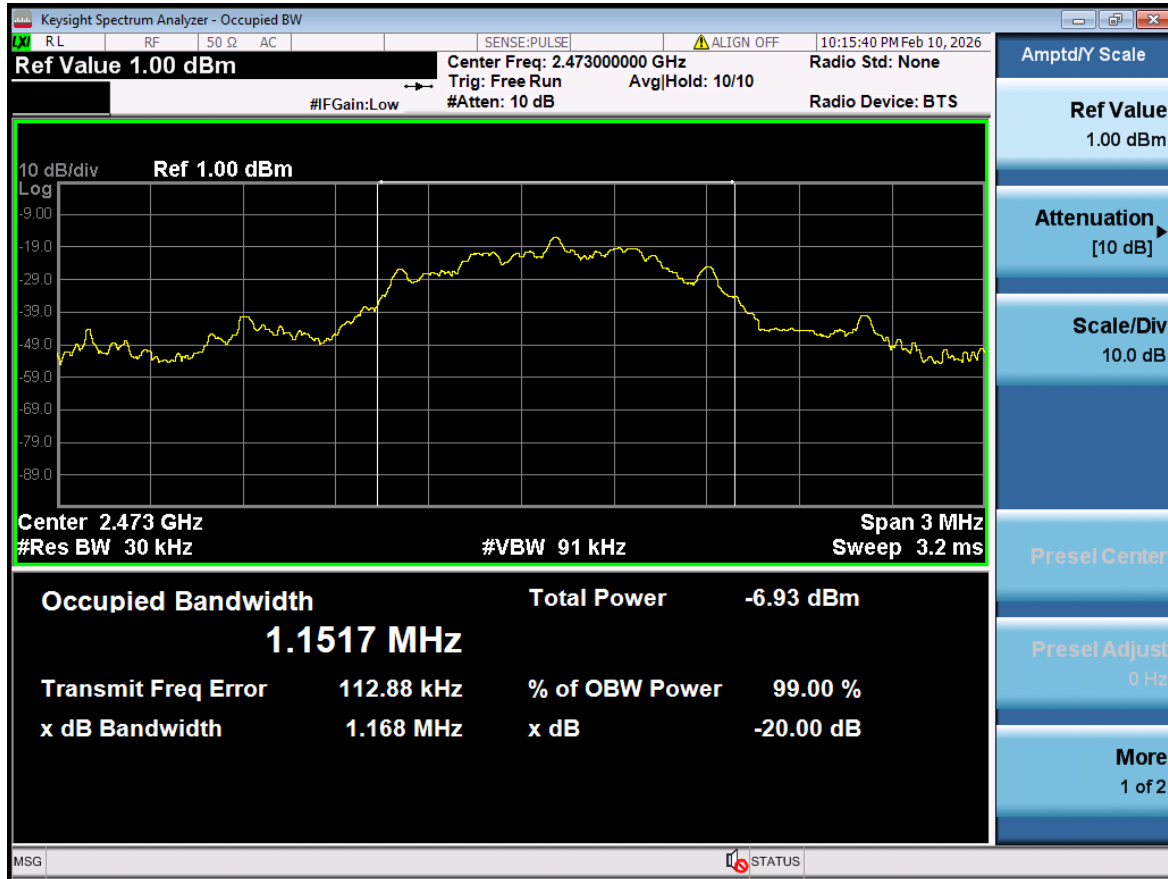
2410MHz



2437MHz



2473MHz



8 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2602000532ET

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal photos for SZCR2602000532ET

- End of the Report -

