

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technological Development District, Guangzhou, China 510663 Telephone: +86 (0) 20 82155555 Fax: +86 (0) 20 82075059 Email: ee.guangzhou@sgs.com

Report No.: GZEM190701452303 Page: 1 of 22 FCC ID: U9K-LK1000

TEST REPORT

Application No.:	GZEM1907014523CR
Applicant:	Simplisafe, Inc
Address of Applicant:	294 Washington Street, 9th Floor, Boston MA 02108, United States
Manufacturer:	Simplisafe, Inc
Address of Manufacturer:	294 Washington Street, 9th Floor, Boston MA 02108, United States
Factory:	Jetta (China) Industries Co.,Ltd
Address of Factory:	333 Cai Xin Lu, Lan He Zhen, Nan Sha Qu, Guangzhou Shi, Guangdong Province, China
Equipment Under Test (EUT	·):
FCC ID: U9K-LK1000	
EUT Name:	Simplisafe Lock
Model No.:	SSLK1
Trade Mark:	Simplisafe
Standard(s) :	47 CFR Part 15, Subpart C 15.231
Date of Receipt:	2019-07-23
Date of Test:	2019-07-29 to 2019-07-31
Date of Issue:	2019-08-02
Test Result:	Pass*

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

Kube Tian

Kobe Jian

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		2019-08-02		Original		

Authorized for issue by:		
Tested By	Kevin zhang	2019-07-29 to 2019-07-31
	Kevin_Zhang /Project Engineer	Date
Checked By	Ridey Liv	2019-08-02
	Ricky_Liu /Reviewer	Date



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2 Test Summary

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.231	N/A	47 CFR Part 15, Subpart C 15.203	Pass	

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Occupied Bandwidth	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.231(c)	Pass	
Dwell Time	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.231(a)	Pass	
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C (15.231(b))	Pass	
Radiated Emissions	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C (15.231(b))	Pass	



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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 6.0V = $4 \times 1.5V$ with size of "AA" batteries
Test Voltage:	DC 6.0V
Cable:	N/A
Antenna Gain:	0dBi
Antenna Type:	Integrated Antenna
Modulation Type:	FSK
Operation Frequency:	433.92MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800

4.3 Environment parameter

Environment Parameter	Selected Values During Tests		
Relative Humidity	Ambient		
Value	Temperature(°C)	Voltage(V)	
TNVN	+20	6.0	
TLVN	-20	6.0	
THVN	+50	6.0	
TNVL	+20	5.1	
TNVH	+20	6.9	

Note:

- VN: Normal Voltage
- TN: Normal Temperature
- TL: Low Temperature
- TH: High Temperature
- VL: Low Voltage
- VH: High Voltage



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No.	Item	Measurement Uncertainty
1	Radio Frequency	±5.5 x 10-8
2	Duty cycle	±0.57%
3	Occupied Bandwidth	±3%
4	RF Conducted power	±0.68dB
5	RF Power Density	±1.50dB
6	Conducted Spurious Emissions	±1.04dB
7	RF Radiated Power	±4.5dB (below 1GHz)
/	hr haulaleu fowel	±4.8dB (above 1GHz)
8	Padiated Spurious Emission Test	±4.5dB (30MHz-1GHz)
0	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)
9	Temperature	±0.4 <i>°</i> C
10	Humidity	±1.3%
11	Supply Voltages	±1.5%
12	Time	±3%

4.4 Measurement Uncertainty

4.5 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059 No tests were sub-contracted.



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4.6 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 as a result of our NVLAP accreditation.

• 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 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002.

• 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, Jul 13, 2017.

Industry Canada (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-10449 and T-11179)

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.: R-12460, C-12584, G-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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- 4.7 Deviation from Standards
 - None
- 4.8 Abnormalities from Standard Conditions None



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5 Equipment List

Occupied Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01	
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01	

Dwell Time						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01	
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01	

Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2019-07-01	2020-06-30
Compact Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2016-12-04	2019-12-03
10m Semi- Anechoic Chamber	ETS	N/A	EMC0530	2018-12-08	2019-12-07
Horn Antenna (Rx)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-08	2019-09-08
Bilog Type Antenna	Schaffner Chase	CBL6143	EMC0519	2020-05-03	2020-05-03
1-26.5GHz Pre Amplifier	Agilent	8449B	EMC0521	2020-01-06	2020-01-06
Amplifier 9kHz- 1300MHz	HP	8447F	EMC2065	2019-05-31	2019-05-31
Antenna Mask (Tx)	HD-GmbH	AS620M	EMC0507	N/A	N/A
Antenna Mask (Rx)	HD-GmbH	MA240	EMC0508	N/A	N/A
966 Anechoic Chamber	C.R.T	9mX6mX6m	EMC2142	2017-12-19	2019-12-18
Signal Analyzer (20Hz ~ 26.5Ghz	R&S	FSIQ26	EMC0069	2018-11-19	2019-11-18



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2019-07-16	2020-07-15
DMM	Fluke	73	EMC0007	2019-07-16	2020-07-15



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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 an 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. The best case gain of the antenna is 0dBi.



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7 Radio Spectrum Matter Test Results

7.1 Occupied Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.231(c)
Test Method:	ANSI C63.10 (2013) Section 6.9
Limit:	

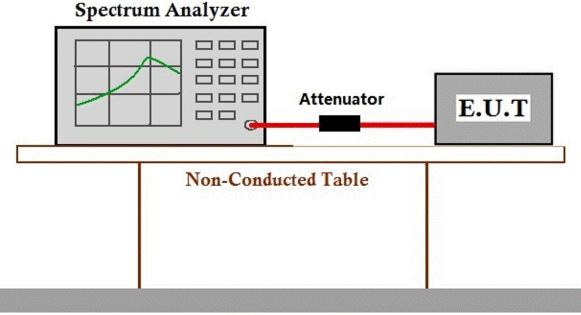
Frequency range(MHz)	Limit
70-900	No wider than 0.25% of the center frequency
Above 900	No wider than 0.5% of the center frequency

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:25.3 °CHumidity:55.5 % RHAtmospheric Pressure:1020mbarTest modec:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



Ground Reference Plane



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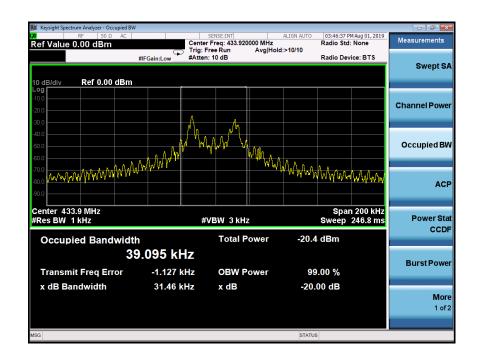
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7.1.3 Measurement Procedure and Data

Test Result:

Test Channel	Bandwidth	Limit	Verdict
433.92MHz	31.46kHz	1.08	PASS

Test Plot:





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7.2 Dwell Time

Test Requirement Test Method: Limit: 47 CFR Part 15, Subpart C 15.231(a) ANSI C63.10 (2013) Section 7.8.4

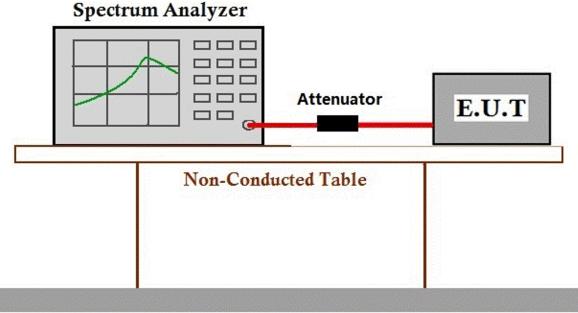
Device type	Limit
Manually operated transmitter	The switch automatically deactivate the transmitter within not more than 5 seconds of being released
Automatically actived transmitter	Cease transmission within 5 seconds after activation
Periodic transmissions to determine system integrity of transmitters used in security or safety applications	The total transmission time does not exceed 2 seconds per hour

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:25.3 °CHumidity:55.5 % RHAtmospheric Pressure:1020mbarTest modec:TX mode_Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram



Ground Reference Plane



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7.2.3 Measurement Procedure and Data

Test Result:

Test Channel	Shutdown Time	Limit	Verdict
433.92MHz	0.07s	≤5s	PASS

Test Plot:

	rm Analyzer - Swept SA RF 50 Ω AC		SENSE:II		ALIGN AUTO	06:11:53 PM Jun 26, 20	
larker 2 Δ	70.0000 ms	PNO: Fast + IFGain:Low	► Trig: Free Run Atten: 10 dB	Avg n	Type: Log-Pwr	TRACE 1234 TYPE WWWW DET NNNN	NAM-
0 dB/div	Ref 0.00 dBm				Δ	Mkr2 70.00 m 0.05 d	S 2
						2Δ1 *	Relative To
40.0 50.0 50.0							X Axis Sca Time <u>Auto</u> Ma
70.0 80.0 90.0		d, e, este blask er et skiler					Marker Trace [Trace1, Auto Init
enter 433. tes BW 1.0	920000 MHz MHz	#VB	W 3.0 MHz		Sweep	Span 0 H 5.000 s (1001 pt	lz Line s) _{On C}
	sci : :	× <u>3.910 s</u> 70.00 ms (Δ	y -22.50 dBm) 0.05 dB	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Ē



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7.3 Field Strength of the Fundamental Signal

47 CFR Part 15, Subpart C 15.231(b)
ANSI C63.10 (2013) Section 6.5
3m

Fundamental frequency(MHz)	Field strength of fundamental(microvolts/meter)	Field strength of fundamental(dBµV/meter)
40.66-40.70	2250	67.04
70-130	1250	61.94
130-174	1250 to 3750	61.94 to 71.48*
174-260	3750	71.48
260-470	3750 to 12500	71.48 to 81.94*
Above 470	12500	81.94

*Linear interpolation with frequency, f, in MHz:

For 130-174 MHz: Field Strength (μ V/m) = (56.82 × f)–6136 For 260-470 MHz: Field Strength (μ V/m) = (41.67 × f)–7083

Remark:

1. The emission limit is based on measurement instrumentation employing an average detector at a distance of 3 meters. 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.

2. The fundamental frequency of the EUT is 433.92 MHz, so the limit for average or QP field strength dBuv/m for the fundamental emission= $80.8 \text{ dB}\mu\text{V/m}$.

3. The average correction factor is computed by analyzing the on time in 100ms over one complete pulse train. Analysis of the remote transmitter on time in one complete pulse train, therefore the average value of fundamental frequency is: Average = Peak value + 20log (Duty cycle), where the Duty cycle is calculated from formula:

Duty cycle = Ton_cum / Ton+off

Here,

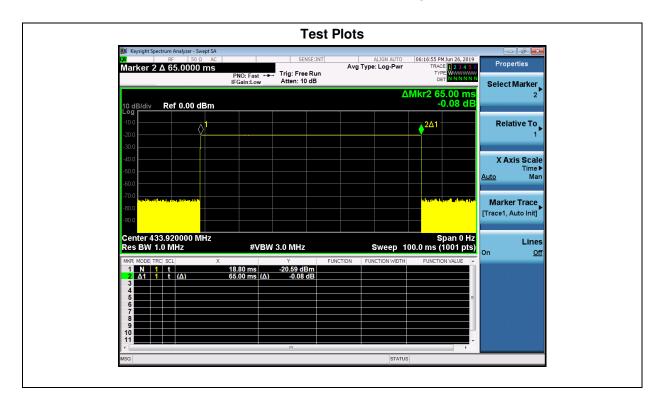
 $Ton_cum = 65 \text{ (ms)}$ Ton+off = 100 (ms)Duty cycle = 65 / 100 = 0.6520log (Duty cycle) = 20log(0.65) = -3.74Please refer to below test plots for more details.



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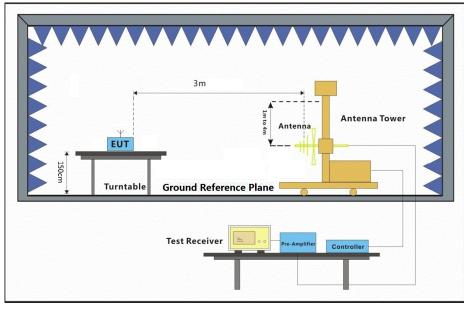


7.3.1 E.U.T. Operation

Operating Environment:

Temperature:23 °CHumidity:51 % RHAtmospheric Pressure:1020mbarTest modec: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

a. 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.

b. 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.

c. 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.

d. 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.

e. 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.

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

g. 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.

h. 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.

Frequency (MHz)	Polarization	Emission Level (dBµv/m)	Limit Line (dBµv/m)	Over Limit (dB)	Remark	Verdict
433.92	Horizontal	73.55	108.8	-35.25	Peak	PASS
433.92	Horizontal	69.81	80.8	-10.99	Average	PASS
433.92	Vertical	61.63	108.8	-47.17	Peak	PASS
433.92	Vertical	57.89	80.8	-22.91	Average	PASS

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



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7.4 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.231(b)
Test Method:	ANSI C63.10 (2013) Section 6.4&6.5&6.6
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	
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 the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.



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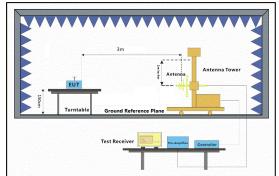
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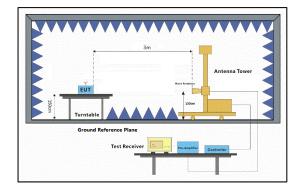
7.4.1 E.U.T. Operation

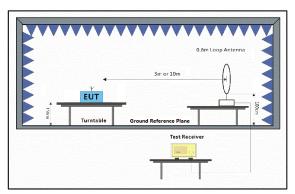
Operating Environment:

Temperature:24.2 °CHumidity:50.3 % RHAtmospheric Pressure:1020mbarTest modec: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. 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.

b. 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.

c. 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.

d. 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.

e. 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.

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

g. 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.

h. 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

Radiated emission below 30MHz

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

Frequency (MHz)	Polarization	Emission Level (dBμv/m)	Limit Line (dBµv/m)	Over Limit (dB)	Remark	Verdict
45.058	Horizontal	15.83	60.8	-34.29	QP	PASS
65.343	Horizontal	15.31	60.8	-34.33	QP	PASS
195.822	Horizontal	16.27	60.8	-34.35	QP	PASS
383.932	Horizontal	20.02	60.8	-33.48	QP	PASS
647.386	Horizontal	24.97	60.8	-33.44	QP	PASS
787.851	Horizontal	26.48	60.8	-33.51	QP	PASS
51.843	Vertical	16.05	60.8	-44.75	QP	PASS
64.433	Vertical	14.69	60.8	-46.11	QP	PASS
159.784	Vertical	15.73	60.8	-45.07	QP	PASS
362.985	Vertical	18.09	60.8	-42.71	QP	PASS
665.804	Vertical	25.52	60.8	-35.28	QP	PASS
869.13	Vertical	30.52	60.8	-30.28	QP	PASS



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Frequency (MHz)	Polarization	Emission Level (dBµv/m)	Limit Line (dBµv/m)	Over Limit (dB)	Remark	Verdict
1299.332	Horizontal	41.14	(авµv/ш) 80.8	-39.66	Peak	PASS
1299.332	Horizontal	37.4	60.8	-23.4	Average	PASS
1570.703	Horizontal	38.72	74	-35.28	Peak	PASS
1570.703	Horizontal	34.98	54	-19.02		PASS
2598.903	Horizontal	41.52	80.8	-39.28	Average Peak	PASS
2598.903	Horizontal	37.78	60.8	-23.02	Average	PASS
3216.286	Horizontal	43.62	80.8	-37.18	Peak	PASS
3216.286	Horizontal	39.88	60.8	-20.92	Average	PASS
3897.968	Horizontal	50.13	74	-23.87	Peak	PASS
3897.968	Horizontal	46.39	54	-7.61	Average	PASS
4971.019	Horizontal	47.86	74	-26.14	Peak	PASS
4971.019	Horizontal	44.12	54	-9.88	Average	PASS
1299.332	Vertical	42.87	80.8	-37.93	Peak	PASS
1299.332	Vertical	39.4	60.8	-21.4	Average	PASS
1732.717	Vertical	39.16	80.8	-41.64	Peak	PASS
1732.717	Vertical	35.69	60.8	-25.11	Average	PASS
2598.297	Vertical	41.69	80.8	-39.11	Peak	PASS
2598.297	Vertical	38.22	60.8	-22.58	Average	PASS
3031.433	Vertical	43.63	80.8	-37.17	Peak	PASS
3031.433	Vertical	40.16	60.8	-20.64	Average	PASS
3897.968	Vertical	50.41	74	-23.59	Peak	PASS
3897.968	Vertical	46.94	54	-7.06	Average	PASS
5196.742	Vertical	51.93	80.8	-28.87	Peak	PASS
5196.742	Vertical	48.46	60.8	-12.34	Average	PASS

Radiated emission above 1GHz

--End of Report--



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