

Report No.: SZCR210502114703

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TEST REPORT

Application No.: SZCR2105021147AT

Applicant: SYBER SENSE IOT COMPANY LIMITED

Address of Applicant: FLAT/RM 10 BLK A 16/F HI TECH INDUSTRIAL CENTRE 5-21 PAK TIN

PAR STREET TSUEN WAN Hong Kong China

Manufacturer: SYBER SENSE IOT COMPANY LIMITED

Address of Manufacturer: 5/F, Xiagu Building, Meishenghuigu Hi-tech Innovation Park, 83 Dabao

Road, Baoan, Shenzhen, China.

Factory: SYBER SENSE IOT COMPANY LIMITED

Address of Factory: 3/F, Building A, Hanhaida High-tech Park, DatianYang C District, Shiwei

Community, Matian Street, Guangming New District, Shenzhen, China.

Equipment Under Test (EUT):

EUT Name: SS Security Panel Model No.: XP02US-SS-1433-00

Trade Mark: Syber Sense

FCC ID: 2AVDCXP02US-SS-1433

Standard(s): 47 CFR Part 15, Subpart C 15.231

Date of Receipt: 2021-06-09

Date of Test: 2021-06-15 to 2021-06-29

Date of Issue: 2021-06-30

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2021-06-30		Original			

Authorized for issue by:		
	(eo.li	
	Leo Li/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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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		
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.231(a)	Pass		
Dwell Time (15.231(a))	47.0ED Dovt 15	N/A	47 CFR Part 15, Subpart C 15.231(a)	Pass		
Field Strength of the Fundamental Signal (15.231(b))	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		ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15C Section 15.231(b) and 15.209	Pass		

Emission Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		



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General Information

4.1 Details of E.U.T.

DC 12V from adapter input AC 120V/60Hz		
Adapter Model: SW-120250		
Input: 100-240V~50/60Hz 0.68A Max		
Output: DC 12V 2500mA		
Lithium Ion Battery: 3.7V 3600mAh rechargeable battery which charged by adapter		
DC cable: 185cm unshielded		
Type-C to RJ45 cable: 17cm unshielded		
433.95MHz		
1		
OOK		
-2.5dBi		
Inverted-F Antenna		

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%
Dwell Time (15.231(a))	3%
Field Strength of the Fundamental Signal (15.231(b))	4.5dB
Radiated Emissions	4.5dB (below 1GHz)/4.8dB (above 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:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-24	2022-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2021-04-01	2022-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-05-20	2022-05-19

Radiated Emissions(Below 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-04-01	2022-03-31	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09	

Radiated Emissions(Above 1GHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	20211-03-12	2024-03-11			
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-04-09	2022-04-08			
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-13	2024-04-12			
Pre-Amplifier	Compliance Directions Systems Inc.	s PAP-0126 SEM004-11		2020-09-23	2021-09-22			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09			
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13			
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-04-01	2022-03-31			



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Dwell Time (15.231(a))								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12			
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-24	2022-03-23			
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2021-04-01	2022-03-31			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22			
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-05-20	2022-05-19			

Field Strength of the Fundamental Signal (15.231(b))								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18			
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01			
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23			
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-04-01	2022-03-31			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09			

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14			
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29			



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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 use an unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

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.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -2.5dBi.

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 15.231(a)
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			

Remark: For this device, the limit is 433.95MHz*0.25%=1.084875MHz

7.1.1 E.U.T. Operation

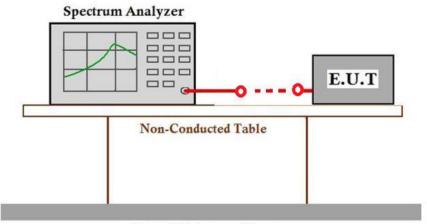
Operating Environment:

Temperature: 23.0 °C Humidity: 49.6 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	TX mode_Keep the EUT in continuously transmitting mode with OOK modulation.
Final test	11	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with OOK modulation.

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data



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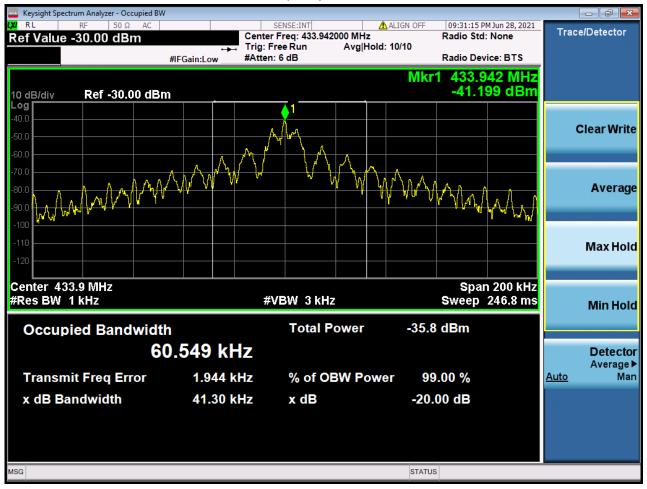
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Test Frequency: 433.942MHz_





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7.2 Dwell Time (15.231(a))

Test Requirement 47 CFR Part 15, Subpart C 15.231(a)

Test Method:

Limit:

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

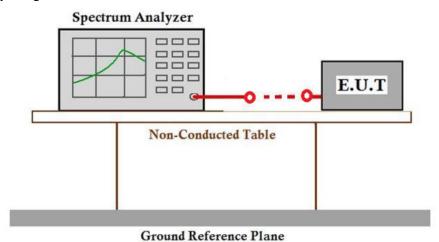
Operating Environment:

Temperature: 23.0 °C Humidity: 49.6 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	TX mode_Keep the EUT in continuously transmitting mode with OOK modulation.
Final test	11	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with OOK modulation.

7.2.3 Test Setup Diagram





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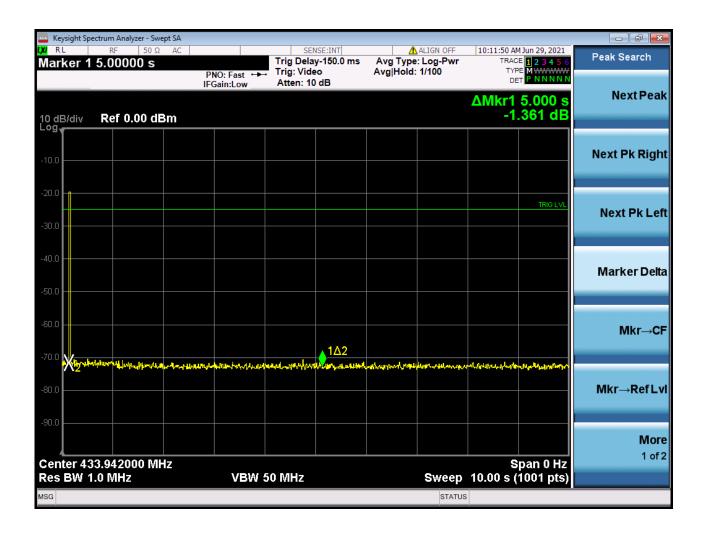
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7.2.4 Measurement Procedure and Data





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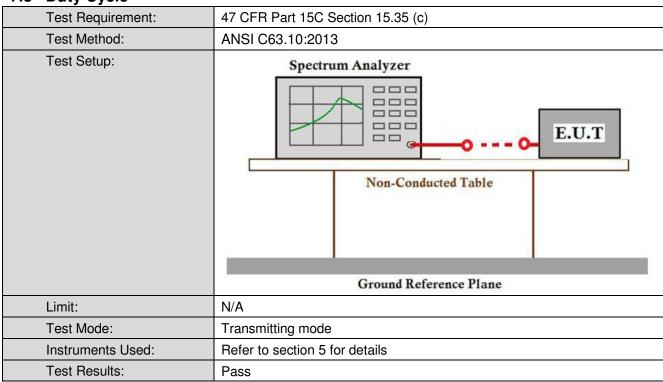
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7.3 Duty Cycle



Test plot as follows: **Duty cycle numbers**



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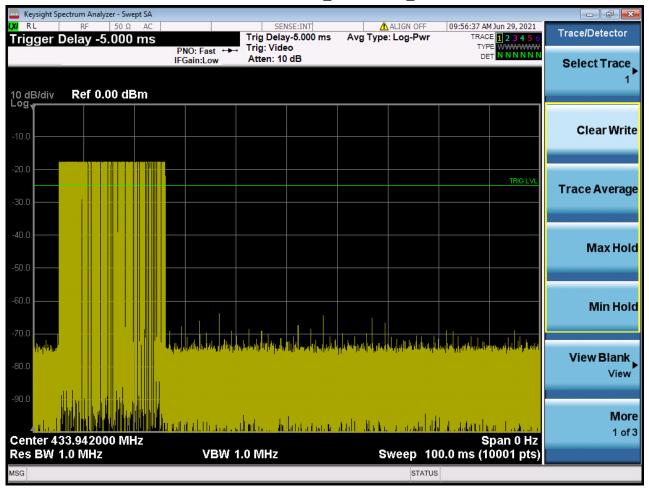
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Test Mode: DT 433.942MHz





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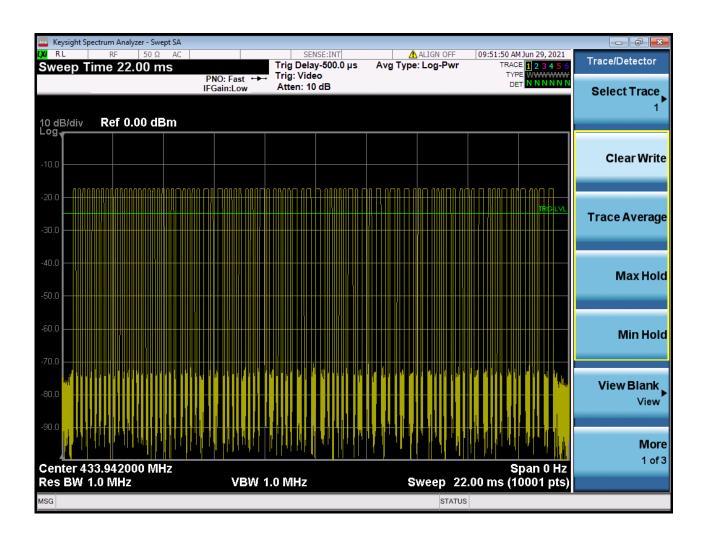
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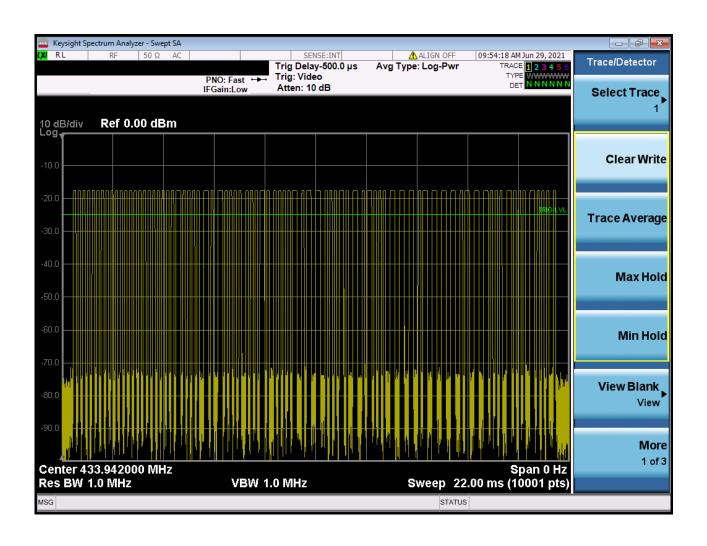
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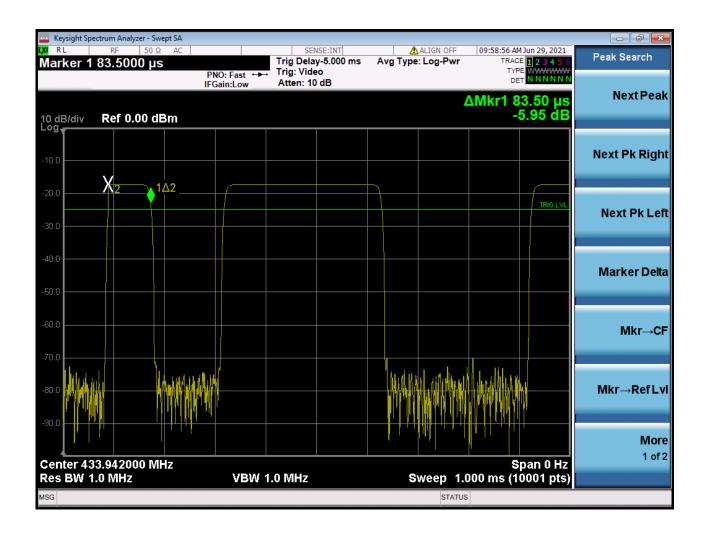
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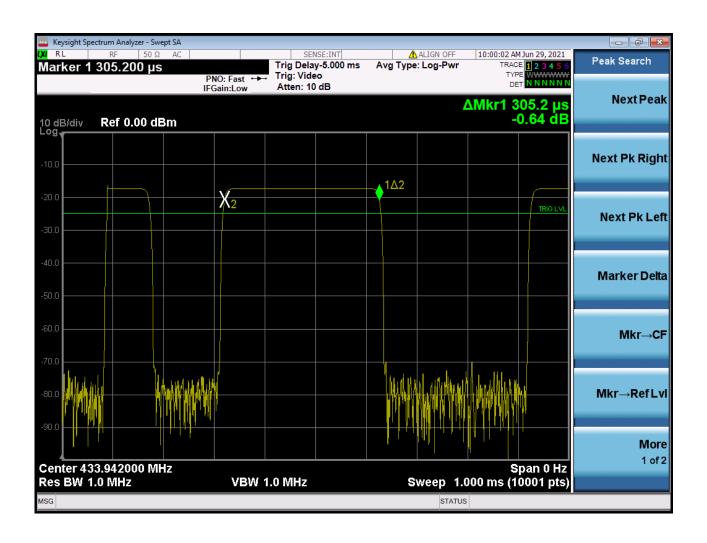
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7.4 Field Strength of the Fundamental Signal (15.231(b))

47 CFR Part 15, Subpart C 15.231(b) Test Requirement Test Method: ANSI C63.10 (2013) Section 6.5

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(microvolts/meter)	Field strength of spurious emissions(microvolts/meter)	
40.66-40.70	2250	225	
70-130	1250	125	
130-174	1250 to 3750	125 to 375	
174-260	3750	375	
260-470	3750 to 12500	375 to 1250	
Above 470	12500	1250	

Remark: 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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.4 °C Humidity: 61.9 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	TX mode_Keep the EUT in continuously transmitting mode with OOK modulation.
Final test	11	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with OOK modulation.



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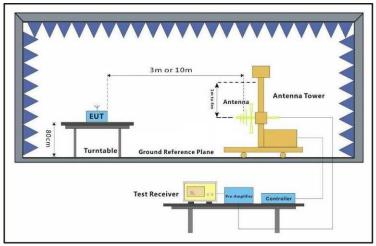
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7.4.3 Test Setup Diagram



7.4.4 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



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Peak value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time = $(64*0.085+20*0.305)=11.54$ ms
Test data:	T period =100ms
	Average value= -18.76dB

Peak value	•							
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
433.95	2.35	22.24	27.54	91.04	88.09	100.83	-12.74	Horizontal
433.95	2.35	22.24	27.54	86.06	83.11	100.83	-17.72	Vertical
867.9	3.49	28.72	27.33	44.48	49.36	80.83	-31.47	Horizontal
867.9	3.49	28.72	27.33	31.17	36.05	80.83	-44.78	Vertical

Average value:

Frequency (MHz)	PDCF	Peak Level (dBuV/m)	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.95		88.09	69.33	80.83	-11.50	Horizontal
433.95	10.76	83.11	64.35	80.83	-16.48	Vertical
867.9	-18.76	49.36	30.60	60.83	-30.23	Horizontal
867.9		36.05	17.29	60.83	-43.54	Vertical





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7.5 Radiated Emissions

Test Requirement 47 CFR Part 15C Section 15.231(b) and 15.209 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 guasi-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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.5 °C Humidity: 62.3 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	TX mode_Keep the EUT in continuously transmitting mode with OOK modulation.
Final test	11	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with OOK modulation.



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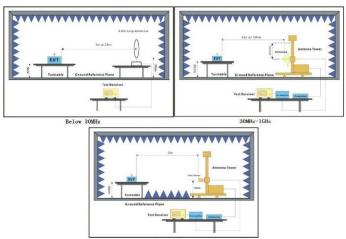
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7.5.3 Test Setup Diagram



7.5.4 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, q. 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: 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor 2) Scan from 9kHz to 6GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above 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. 3) 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.



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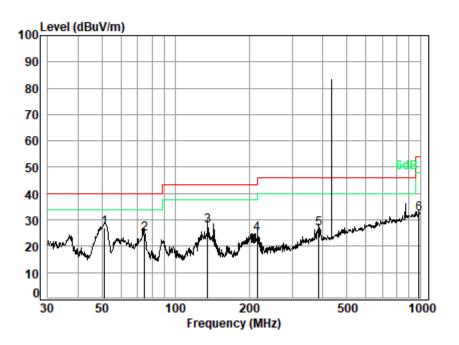
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Test Mode: 11; Polarity: Horizontal



Site : chamber Condition: 3m VERTICAL Job No. : 21147AT

Test mode: 11

	Frea	Ant Factor		Preamp Factor					Remark
-	MHz			dB				dB	
1 q	51.12	13.76	0.80	27.68	40.12	27.00	40.00	-13.00	QP
2	74.66	12.40	0.95	27.64	39.09	24.80	40.00	-15.20	QP
3	135.51	13.00	1.29	27.41	41.02	27.90	43.50	-15.60	QP
4	216.02	16.60	1.50	27.09	33.76	24.77	46.00	-21.23	QP
5	385.28	22.25	2.16	27.32	29.53	26.62	46.00	-19.38	QP
6	989.54	29.64	3.69	26.71	25.72	32.34	54.00	-21.66	OP



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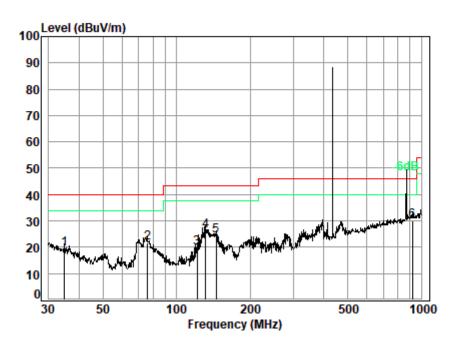
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Test Mode: 11; Polarity: Vertical



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 21147AT

Test mode: 11

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	34.88	20.36	0.60	27.72	26.16	19.40	40.00	-20.60	QP
2	75.98	12.40	0.98	27.64	36.03	21.77	40.00	-18.23	QP
3	121.12	12.94	1.26	27.48	33.00	19.72	43.50	-23.78	QP
4	131.76	12.66	1.28	27.42	39.67	26.19	43.50	-17.31	QP
5	145.35	14.11	1.31	27.36	36.12	24.18	43.50	-19.32	QP
6 q	922.52	29.20	3.62	27.05	24.13	29.90	46.00	-16.10	QP



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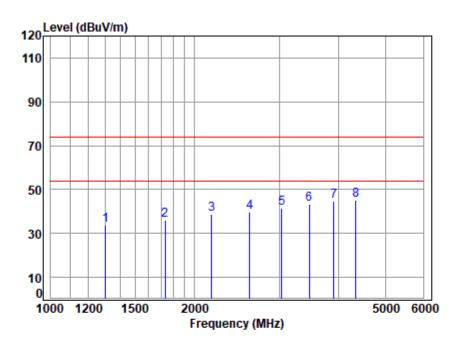
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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 21147AT

Mode : 433.95 TX SE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
			,			,			
1	1301.850	2.95	25.32	39.83	45.47	33.91	74.00	-40.09	peak
2	1735.800	3.46	26.87	40.08	45.94	36.19	74.00	-37.81	peak
3	2169.750	3.97	28.40	40.30	46.51	38.58	74.00	-35.42	peak
4	2603.700	4.60	29.39	40.53	46.36	39.82	74.00	-34.18	peak
5	3037.650	4.91	30.51	40.73	46.91	41.60	74.00	-32.40	peak
6	3471.600	5.49	31.63	41.06	47.17	43.23	74.00	-30.77	peak
7	3905.550	6.14	32.44	41.34	47.25	44.49	74.00	-29.51	peak
8	4339.500	6.61	32.88	41.73	47.22	44.98	74.00	-29.02	peak



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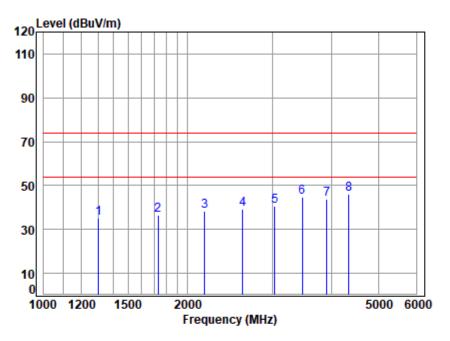
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Test Mode: 00; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 21147AT

Mode : 433.95 TX SE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1301.850	2.95	25.32	39.83	46.51	34.95	74.00	-39.05	peak
2	1735.800	3.46	26.87	40.08	46.07	36.32	74.00	-37.68	peak
3	2169.750	3.97	28.40	40.30	46.19	38.26	74.00	-35.74	peak
4	2603.700	4.60	29.39	40.53	45.85	39.31	74.00	-34.69	peak
5	3037.650	4.91	30.51	40.73	46.09	40.78	74.00	-33.22	peak
6	3471.600	5.49	31.63	41.06	48.65	44.71	74.00	-29.29	peak
7	3905.550	6.14	32.44	41.34	46.46	43.70	74.00	-30.30	peak
8	4339.500	6.61	32.88	41.73	48.16	45.92	74.00	-28.08	peak



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8 Emission Test Results

8.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.231

47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco (MALLE)	Conducted limit(dBµV)							
Frequency of emission(MHz)	Quasi-peak	Average						
0.15-0.5	66 to 56*	56 to 46*						
0.5-5	56	46						
5-30	60	50						
*Decreases with the logarithm of t	*Decreases with the logarithm of the frequency.							
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz								

8.1.1 E.U.T. Operation

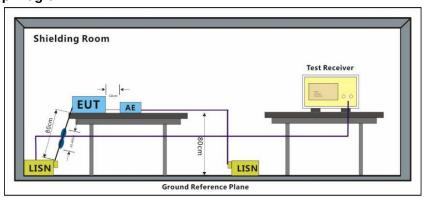
Operating Environment:

Temperature: 22.9 °C Humidity: 46.6 % RH Atmospheric Pressure: 1010 mbar

8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with OOK modulation.

8.1.3 Test Setup Diagram





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Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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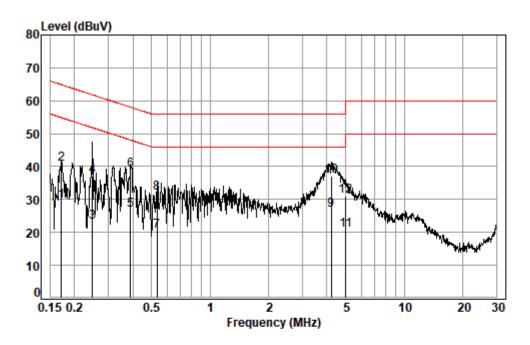
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Test Mode: 11; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 21147AT

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1712	0.03	9.71	19.84	29.58	54.90	-25.32	Average
2	0.1712	0.03	9.71	30.90	40.64	64.90	-24.26	QP
3	0.2481	0.05	9.74	13.31	23.10	51.82	-28.72	Average
4	0.2481	0.05	9.74	27.36	37.15	61.82	-24.67	QP
5	0.3893	0.06	9.76	17.04	26.86	48.08	-21.22	Average
6	0.3893	0.06	9.76	29.20	39.02	58.08	-19.06	QP
7	0.5350	0.08	9.77	10.66	20.51	46.00	-25.49	Average
8	0.5350	0.08	9.77	22.14	31.99	56.00	-24.01	QP
9	4.2242	0.15	9.89	16.58	26.62	46.00	-19.38	Average
10	4.2242	0.15	9.89	27.01	37.05	56.00	-18.95	QP
11	5.0046	0.16	9.93	10.68	20.77	50.00	-29.23	Average
12	5.0046	0.16	9.93	21.04	31.13	60.00	-28.87	QP



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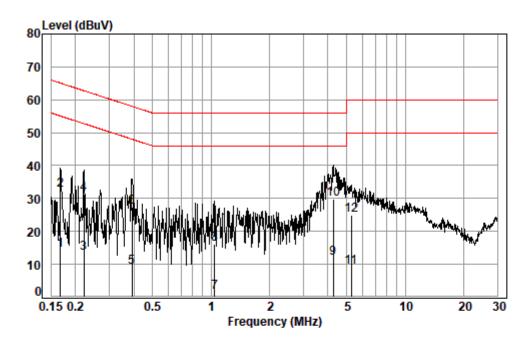
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Test Mode: 11; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 21147AT

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1677	0.03	9.71	4.70	14.44	55.08	-40.64	Average
2	0.1677	0.03	9.71	22.78	32.52	65.08	-32.56	QP
3	0.2220	0.04	9.72	3.66	13.42	52.74	-39.32	Average
4	0.2220	0.04	9.72	21.68	31.44	62.74	-31.30	QP
5	0.3914	0.06	9.75	-0.54	9.27	48.03	-38.76	Average
6	0.3914	0.06	9.75	17.68	27.49	58.03	-30.54	QP
7	1.0430	0.10	9.78	-8.50	1.38	46.00	-44.62	Average
8	1.0430	0.10	9.78	6.17	16.05	56.00	-39.95	QP
9	4.2692	0.15	9.89	1.80	11.84	46.00	-34.16	Average
10	4.2692	0.15	9.89	19.86	29.90	56.00	-26.10	QP
11	5.2770	0.16	9.95	-1.06	9.05	50.00	-40.95	Average
12	5.2770	0.16	9.95	14.97	25.08	60.00	-34.92	QP



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9 **Test Setup Photo**

Refer to Setup Photos

10 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos for SZCR2105021147AT

- End of the Report -



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