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Report Template Version: V05 Report Template Revision Date: 2021-11-03

Test Report

Report No.:	CQASZ20230500705E-01
Applicant:	Shenzhen Itian Technology Co.,LTD
Address of Applicant:	6F, Building D, Phase 2nd, Anfeng Industrial Park, Dalang Street, Longhua
	District, Shenzhen, China
Equipment Under Test	(EUT):
Product:	MagSafe Car Charger
Model No.:	S15, S16, S17, S18
Test Model No.:	S15
Brand Name:	ITIAN
FCC ID:	2AUDO-S15S16S17S18
Standards:	47 CFR Part 15, Subpart C
Date of Receipt:	2023-5-4
Date of Test:	2023-5-4 to 2023-5-9
Date of Issue:	2023-5-30
Test Result:	PASS*

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

Tested By:	Jol	
	(Joe Wang)	TESTING TEQU
Reviewed By:	Timo Loj	
	(Timo Lei)	承华夏准测
Approved By:	Jamos	APPROVED *
	(Jack Ai)	

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20230500705E-01	Rev.01	Initial report	2023-5-30



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215	ANSI C63.10 2013	PASS
Radiated Emission , Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.209	ANSI C63.10 2013	PASS



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7 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	



4 General Information

4.1 Client Information

Applicant:	Shenzhen Itian Technology Co.,LTD		
Address of Applicant:	6F, Building D, Phase 2nd, Anfeng Industrial Park, Dalang Street, Longhua		
	District, Shenzhen, China		
Manufacturer:	Shenzhen Itian Technology Co.,LTD		
Address of Manufacturer:	6F, Building D, Phase 2nd, Anfeng Industrial Park, Dalang Street, Longhua		
	District, Shenzhen, China		
Factory:	Shenzhen Itian Technology Co.,LTD		
Address of Factory:	6F, Building D, Phase 2nd, Anfeng Industrial Park, Dalang Street, Longhua		
	District, Shenzhen, China		

4.2 General Description of EUT

Product Name:	MagSafe Car Charger
Model No.:	S15, S16, S17, S18
Test Model No.:	S15
Brand Name:	ITIAN
Software Version:	S15-1024N-V1
Hardware Version:	S15-1024-5004-V12
Power Supply:	DC 5V=3A, 9V=3A

4.3 Product Specification subjective to this standard

Equipment Category:	Non-ISM frequency	
Operation Frequency range:	110kHz~205kHz	
Modulation Type:	ASK	
Antenna Type:	Induction coil	
Antenna Gain:	0dBi	
Power:	Output: 10.5W(Max)	

Note:

1. In section 15.31(m), regards to the operating frequency range less 1 MHz.



4.4 Test Environment

Operating Environment	:
Radiated Emissions:	
Temperature:	25.5 °C
Humidity:	53 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.5 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item to	est (RF Conducted test room):
Temperature:	27.1 °C
Humidity:	56 % RH
Atmospheric Pressure:	1009 mbar
Test Mode:	
Mode a:	Wireless output Mode at 7.5W (Max)
Mode b:	Wireless output Mode at 3W (Max)
Mode c:	Wireless total output Mode at 10.5W (Max)

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	/	LPL-C010050200Z	/	CQA
Wireless charge load	1	1	/	CQA
Apple Watch	Apple	/	/	CQA

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/



4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Occupied Bandwidth	1.1%	(1)
4	Temperature test	0.8°C	(1)
5	Humidity test	2.0%	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.7 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Deviation from Standards

None.

4.10Other Information Requested by the Customer

None.



4.11Equipment List

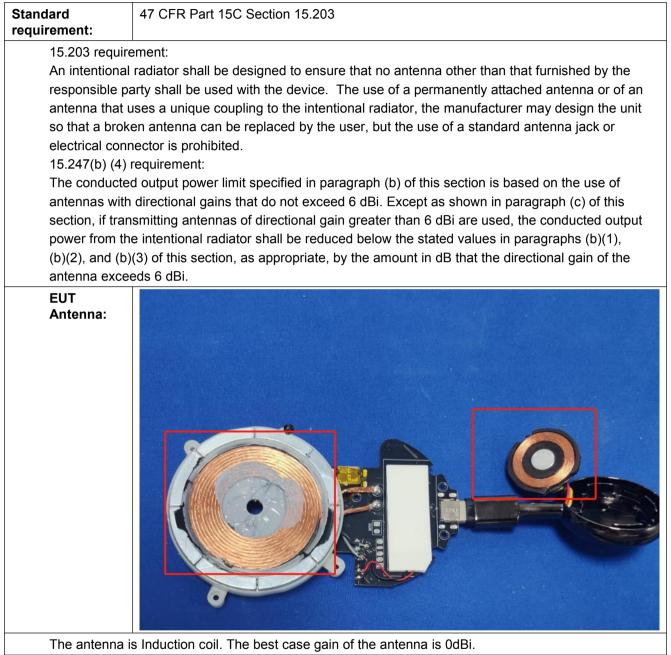
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU26	CQA-038	2022/9/9	2023/9/8
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2022/9/9	2023/9/8
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2022/9/9	2023/9/8
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/9/9	2023/9/8
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2022/9/9	2023/9/8
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
LISN	R&S	ENV216	CQA-003	2022/9/9	2023/9/8
Coaxial cable	CQA	N/A	CQA-C009	2022/9/9	2023/9/8
DC power	KEYSIGHT	E3631A	CQA-028	2022/9/9	2023/9/8





5 Test results and Measurement Data

5.1 Antenna Requirement





Test Method: ANSI C63.10: 2013 Test Frequency Range: 150kHz to 30MHz Limit:	Test Requirement:	47 CFR Part 15C Section 15.207					
Test Frequency Range: 150kHz to 30MHz Limit: Frequency range (MHz) Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 5-30 60 50 * Decreases with the logarithm of the frequency. 1 1) The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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. The vertical ground reference plane. The vertical ground reference plane. The unit under test and bonded to a ground reference plane. The vertical ground reference plane. The unit of the EUT and associated equipment was telest 0.8 m from the burgating the unit under test and bonded to a ground reference plane. The unit of the EUT and associated equipment was telest 0.8 m from the LSN 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: 2013 on conducted measurement.	· ·						
Limit: Frequency range (MHz) Limit (dBuV) 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 the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) Test Procedure: 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 500/50µH + 50 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. The big 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. The bury may placed on the horizontal ground reference plane. The test was placed on the horizontal ground reference plane. The USN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane. 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: 2013 on conducted measurement. Test Setup:							
Frequency range (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 the frequency. 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 500/50µH + 5Ω 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. The 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. The test was polaced upon a non-metallic table 0.8m above the ground reference plane. The LISN 1 was placed 0.8 m the boundary of the unit under test and bonded to a ground reference plane. The test was placed on the horizontal ground reference plane. The test was bendere to a ground reference plane. The test was bended to the horizontal ground reference plane. The USN 1 and the EUT. All other units of the LISN 1 and the EUT. All other units of the LISN i under test and bonded to a ground reference plane. The toeset 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			Limit (c				
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Test Receiver		 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω 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. 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. 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. 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. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 					
		AC Mans					
Test Results: Pass	Test Results:	Pass					

5.2 Conducted Emissions

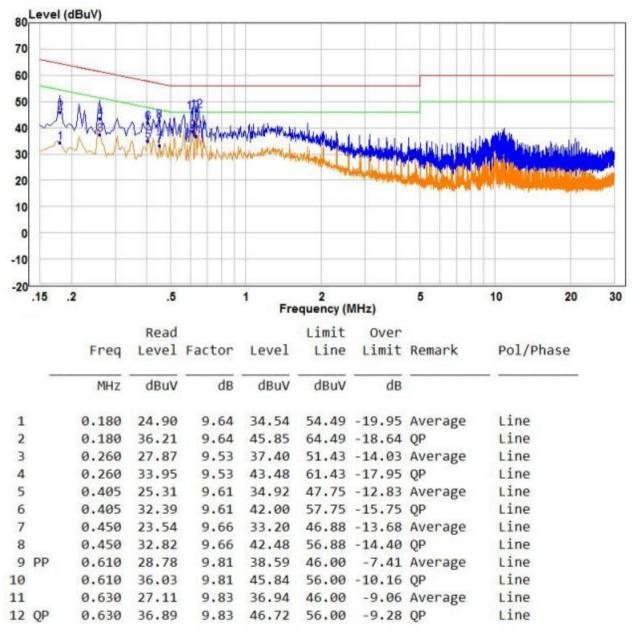


Measurement Data

The worst case:

Mode a:

Live line:



Remark:

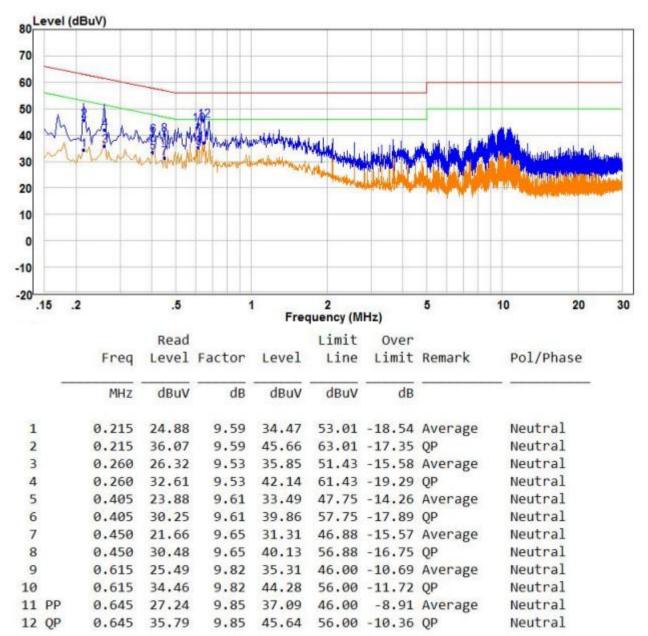
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



The worst case:

Mode a:

Neutral line:



Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

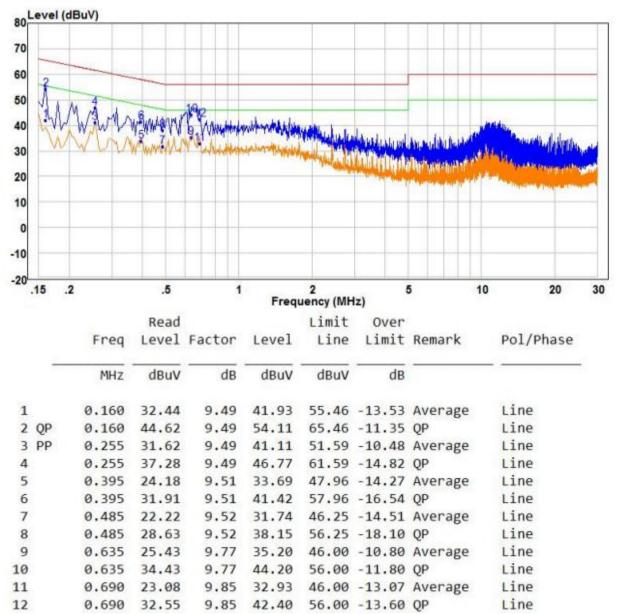
3. If the Peak value under Average limit, the Average value is not recorded in the report.



The worst case:

Mode c:

Live line:



Remark:

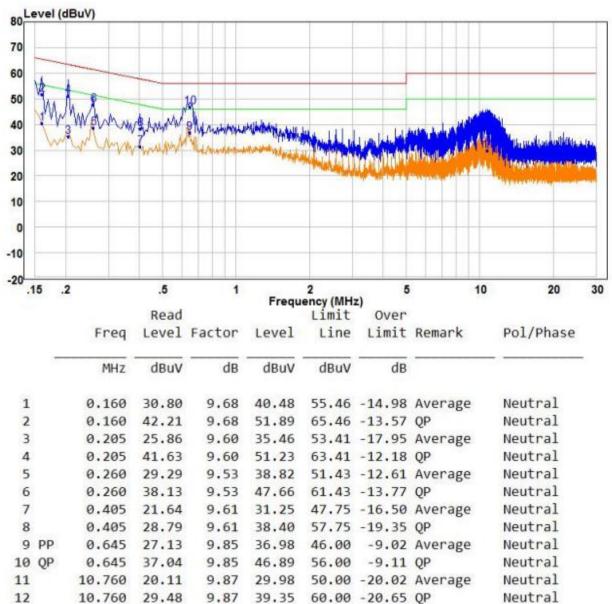
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



The worst case:

Mode c:

Neutral line:

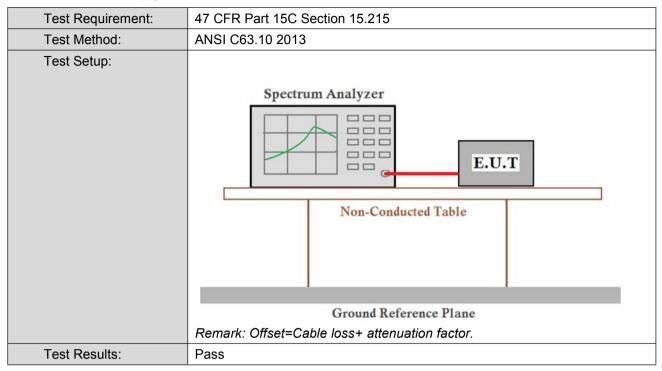


Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



5.3 20dB Occupy Bandwidth



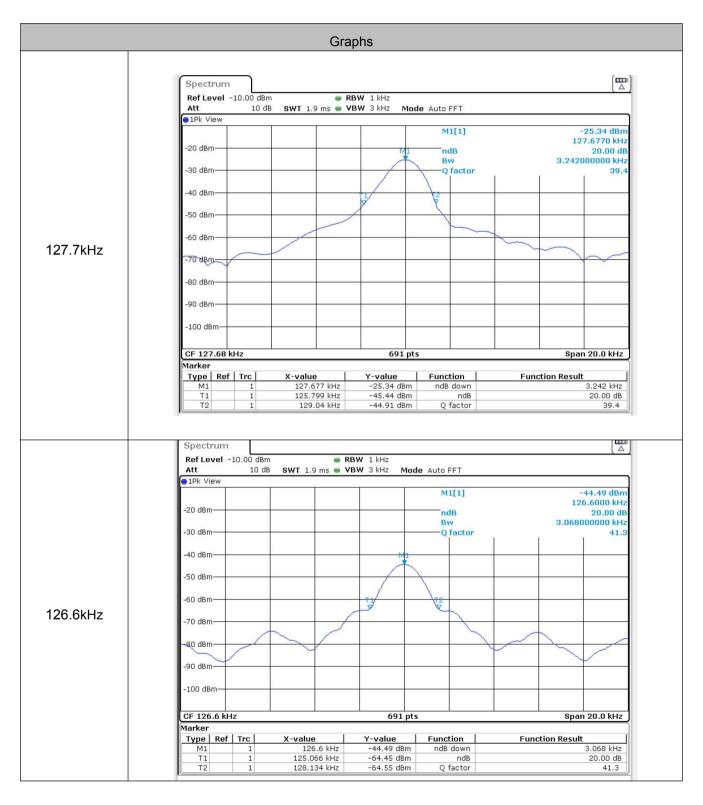
Measurement Data

	Mode a	
Test Frequency (kHz)	20dB Occupy Bandwidth (Hz)	Result
127.7	3242	Pass

Mode c				
Test Frequency (kHz)	20dB Occupy Bandwidth (Hz)	Result		
126.6	3068	Pass		



Test plot as follows:



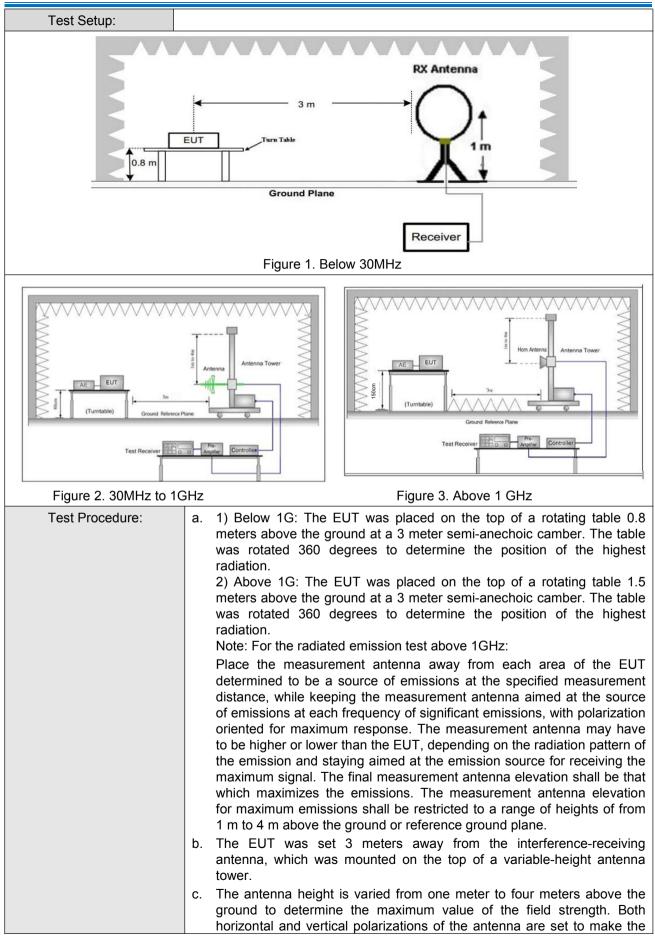


5.4 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)			
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark		
	0.009MHz-0.090MH	z	Peak	10kHz	z 30kHz	Peak		
	0.009MHz-0.090MH	z	Average	10kHz	z 30kHz	Average		
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z 30kHz	Quasi-peak		
	0.110MHz-0.490MH	z	Peak	10kHz	z 30kHz	Peak		
	0.110MHz-0.490MH	z	Average	10kHz	z 30kHz	Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak		
	30MHz-1GHz	30MHz-1GHz Quasi-peak 100 kHz 300kHz			z 300kHz	Quasi-peak		
	Above 1GHz	Peak Peak				Peak		
			Peak	1MHz	: 10Hz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (r		
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30		
	1.705MHz-30MHz		30	-	-	30		
	30MHz-88MHz		100	40.0	Quasi-peak	3		
	88MHz-216MHz 150 43.5 Quasi-peak 3				3			
	216MHz-960MHz 200			46.0	Quasi-peak	3		
	960MHz-1GHz 500			54.0	Quasi-peak	3		
	Above 1GHz50054.0Average3				3			
	Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	20c quip	IB above the i	maximum est. This p	permitted ave	erage emissio		









	m	easurement.
	ar th m	or 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 eter) and the rotatable table was turned from 0 degrees to 360 egrees to find the maximum reading.
		he test-receiver system was set to Peak Detect Function and Specified andwidth with Maximum Hold Mode.
	lin El m av	the emission level of the EUT in peak mode was 10dB lower than the nit specified, then testing could be stopped and the peak values of the UT would be reported. Otherwise the emissions that did not have 10dB argin would be re-tested one by one using peak, quasi-peak or verage method as specified and then reported in a data sheet.
	g. Re	epeat above procedures until all frequencies measured was complete.
Test Results:	Pass	

Radiated Emission below 9k~30MHz			
the worst case			
Test mode:	Mode a		

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) Peak	Limit dB(uV/m) Average	Margin dB	Pass/Fail
0.1277	Face	38.67	19.63	58.3	105.48	-47.18	Pass
0.1277	Side	40.32	19.63	59.95	105.48	-45.53	Pass

Radiated Emission below 9k~30MHz				
the worst case				
Test mode:	Mode c			

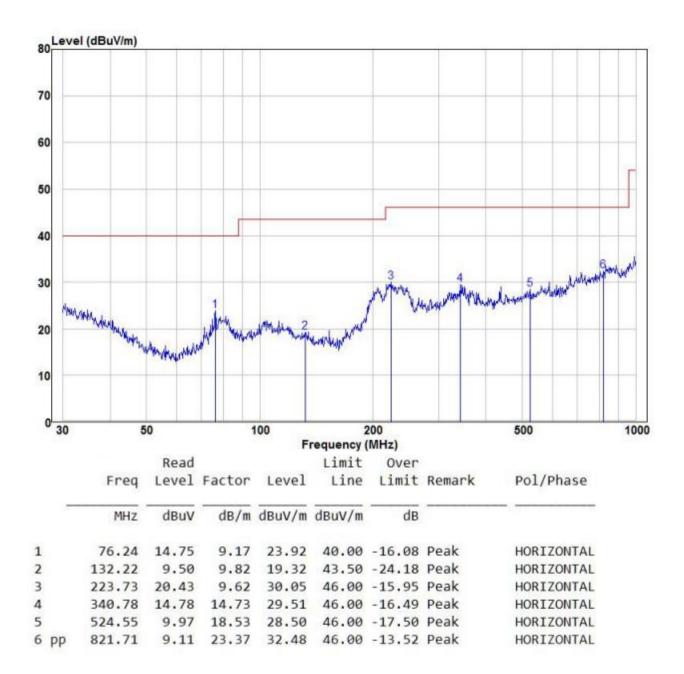
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) Peak	Limit dB(uV/m) Average	Margin dB	Pass/Fail
0.1266	Face	39.23	19.63	58.86	105.56	-46.70	Pass
0.1266	Side	43.17	19.63	62.8	105.56	-42.76	Pass

Note: No other emissions found between lowest internal used/generated frequencies to 30MHz. The peak level of the emission is less than the average limit, so the average level shall be less than1 the limit without test.



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Radiated Emission					
30MHz~1GHz, the worst case					
Test mode:	Mode a	Horizontal			



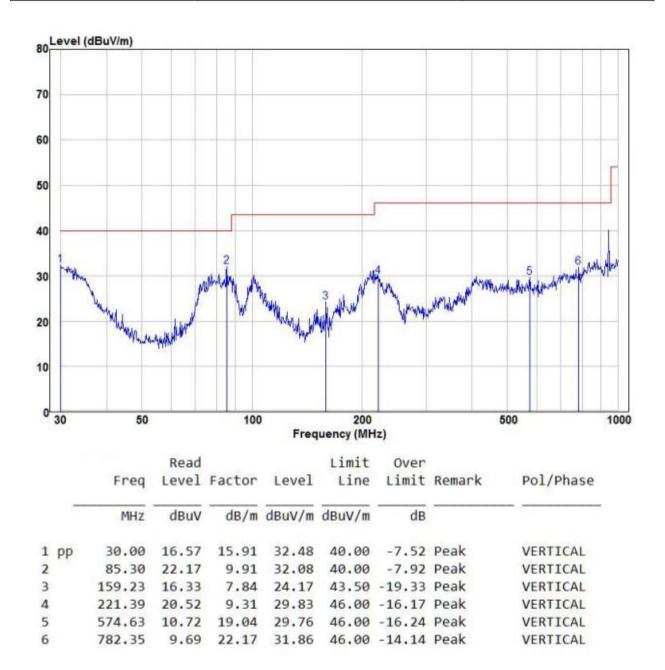
Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:



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30MHz~1GHz, the worst case				
Test mode:	Mode a	Vertical		

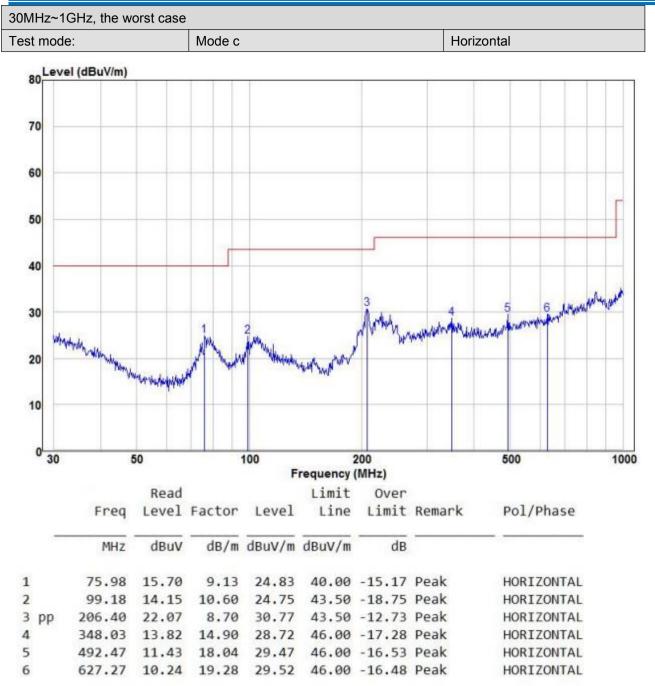


Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:





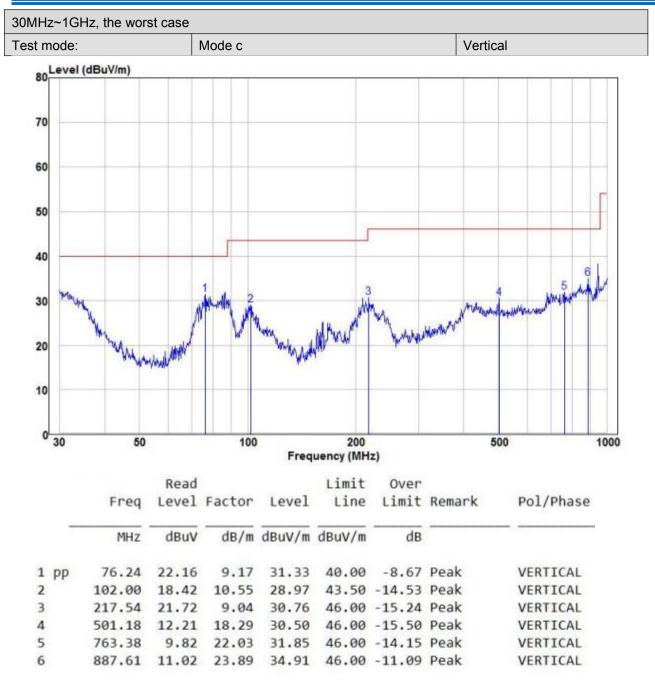


Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:



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Remark:

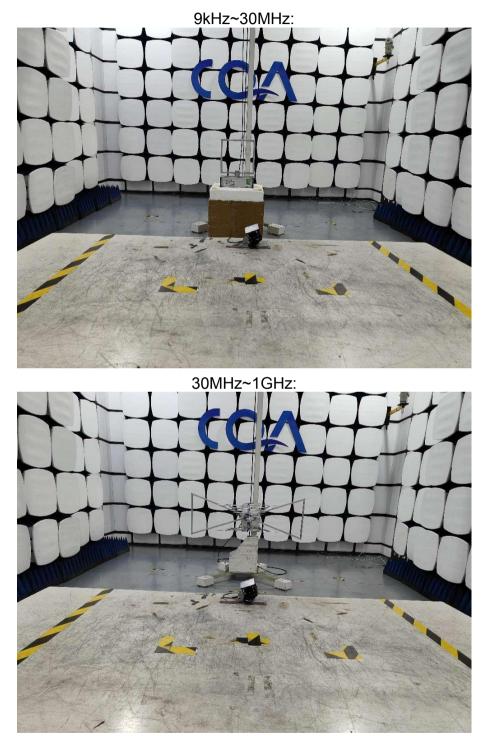
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:





6 Photographs - EUT Test Setup

6.1 Radiated Emission





6.2 Conducted Emission





7 Photographs - EUT Constructional Details







