

Report No.: GZEM201201763703

Page: 1 of 46 FCC ID: 2AONZN1-S

### TEST REPORT

Application No.: GZEM2012017637CR

Applicant: Zhongshan Dashan Photographic Equipment Co., Ltd.

Address of Applicant: District A, 1st Floor, Building A, No.147, Chenggui Road, Sanxiang Town,

Zhongshan City, Guangdong, China

Manufacturer:The same as applicantAddress of Manufacturer:The same as applicantFactory:The same as applicantAddress of Factory:The same as applicant

**Equipment Under Test (EUT):** 

**EUT Name:** iFootage Shark Slider Nano Standard

Model No.: N1-S

Trade Mark: IFOOTAGE

Standard(s): 47 CFR Part 15, Subpart C 15.249

**Date of Receipt:** 2021-05-31

**Date of Test:** 2021-01-05 to 2021-05-27

**Date of Issue:** 2021-06-02

Test Result: Pass\*

Kobe Jian EMC Laboratory Manager

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record					
Version Chapter Date Modifier Remark					
01	2021-06-02			Original	

Authorized for issue by:		
Tested By	Kevin zhang	
	Kevin Zhang/Project Engineer	
Reviewed By	Riday Liv	
The violet by		
	Ricky Liu/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		
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass		
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass		
Radiated Emissions		ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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### 4 General Information

### 4.1 Details of E.U.T.

Power supply: DC 7.4 V for normal working

DC 9 V for charging

Cable(s): Type C charging ports with type C cables (unshielded, 0.8m)

Test Voltage: AC 230 V, 50 Hz powered by DC power refer to section 4.2 for charging

DC 7.4 V powered by battery refer to section 4.2 for normal working

Function: iFootage Shark Slider Nano Standard with BT and 2.4GHz function

Operating Frequency: 2402MHz, 2442MHz, 2480MHz

Channel number: 3
Channel Spacing N/A
Modulation Type: GFSK

Antenna Type: PCB Antenna

Antenna Gain: 0 dBi declared by applicant Sample No.: 0 dBi declared by applicant GZ\_SP\_20210422336

Firmware Version: SV01

Hardware Version: LC12S\_V2.03

Test Software: None Power Setting: Default

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
MacBook Air	APPLE	APPLE Apple A1370	
DC Power Adapter	XINYING	XY-800K (Input: AC 180-230V, 50Hz;Output: DC5V,Max, 1200mA)	RE01
Li-ion Battery	IFOOTAGE	DC 7.4 V, 4400mAh, 32.5Wh	None



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### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz- 30MHz)	3.12dB
20dB Bandwidth	± 3%
Field Strongth of the Fundamental Signal (15 240(a))	5.08dB (1GHz-6GHz)
Field Strength of the Fundamental Signal (15.249(a))	5.14dB (above 6GHz)
Destricted Band Around Fundamental Fraguency	5.08dB (1GHz-6GHz)
Restricted Band Around Fundamental Frequency	5.14dB (above 6GHz)
	5.06dB (30MHz-1GHz;3m)
Dedicted England	4.46dB (30MHz-1GHz;10m)
Radiated Emissions	5.08dB (1GHz-6GHz)
	5.14dB (above 6GHz)

#### 4.4 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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### 4.5 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/New Zealand Regulatory Compliance Mark (RCM).

#### 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 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.

### • ISED (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-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 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-20107 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 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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### 5 Equipment List

Conducted Emissions	onducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
EMI Test Receiver(9kHz- 2.75GHz)	Rohde & Schwarz	ESCS30	EMC0506	2020-11-13	2021-11-12		
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A		
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-01-08	2022-01-06		
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08		
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A		

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Field Strength of the Fundamental Signal (15.249(a))						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020/9/9	2022/9/8	
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24	
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07	
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07	
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12	
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	
Signal Analyzer (20Hz- 26.5GHz)	Rohde & Schwarz	FISQ 26	EMC0069	2020/11/13	2021/11/12	

Restricted Band Around Fundamental Frequency						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020/9/9	2022/9/8	
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24	



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1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Signal Analyzer (20Hz- 26.5GHz)	Rohde & Schwarz	FISQ 26	EMC0069	2020/11/13	2021/11/12

Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020/9/9	2022/9/8
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)  Keysight		N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Signal Analyzer (20Hz- 26.5GHz)	Rohde & Schwarz	FISQ 26	EMC0069	2020/11/13	2021/11/12

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2020-07-09	2021-07-08
DMM	Fluke	73	EMC0007	2020-07-09	2021-07-08



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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



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### 7 Radio Spectrum Matter Test Results

### 7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

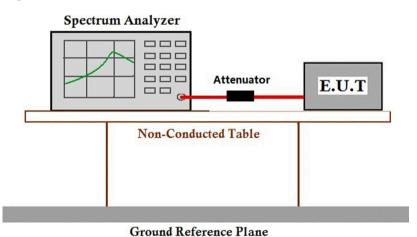
Pre-scan / Mode Final test Code Description

03

TX mode\_Keep the EUT in transmitting with modulation mode.

7.1.3 Test Setup Diagram

Final test





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#### 7.1.4 Measurement Procedure and Data

Cable Loss=0.9 dB

Mode:03; Channel:Low



Mode:03; Channel:middle



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#### Mode:03; Channel:High



TestMode	Antenna	Channel	20dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	1.176	2401.436	2402.612		PASS
GFSK	Ant1	2442	1.200	2441.418	2442.618		PASS
		2480	1.242	2479.388	2480.630		PASS



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### 7.2 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 (2013) Section 6.5&6.6

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.

### 7.2.1 E.U.T. Operation

Operating Environment:

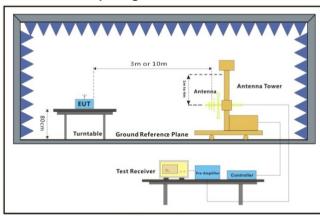
Temperature: 24 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

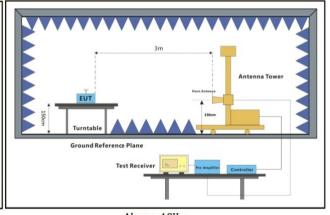
#### 7.2.2 Test Mode Description

Pre-scan / Mode Final test Code Description

Final test 03 TX mode Keep the EUT in transmitting with modulation mode.

### 7.2.3 Test Setup Diagram





30MHz-1GHz Above 1GHz

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#### 7.2.4 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.Test the EUT in the lowest channel, the middle channel, the Highest channel.

i.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.

j.Repeat above procedures until all frequencies measured was complete.

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

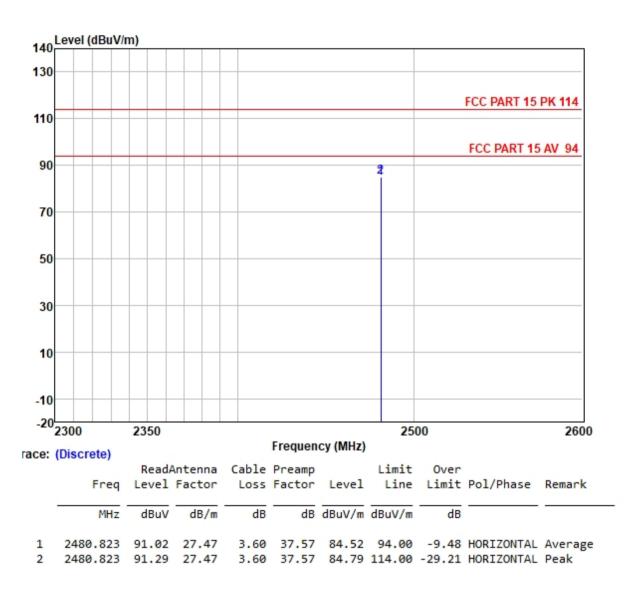




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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; ; Channel:High;





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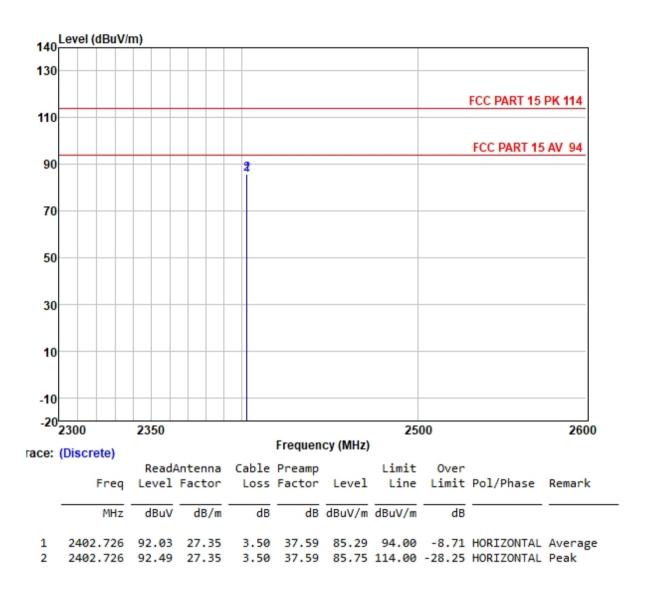
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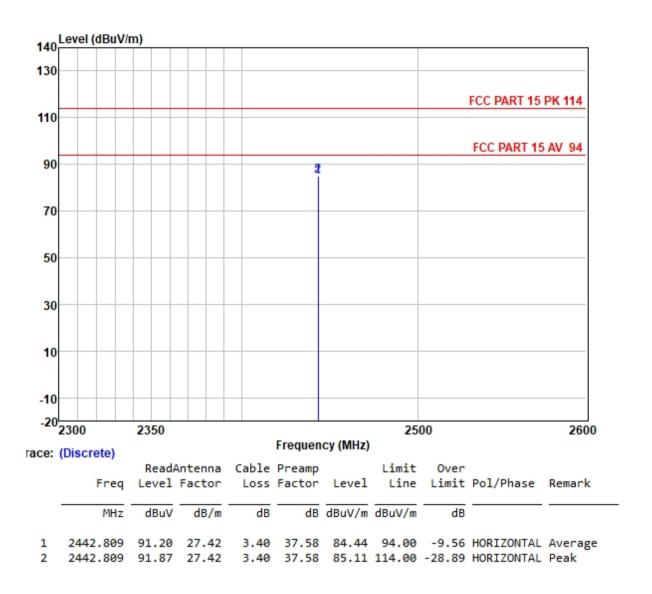
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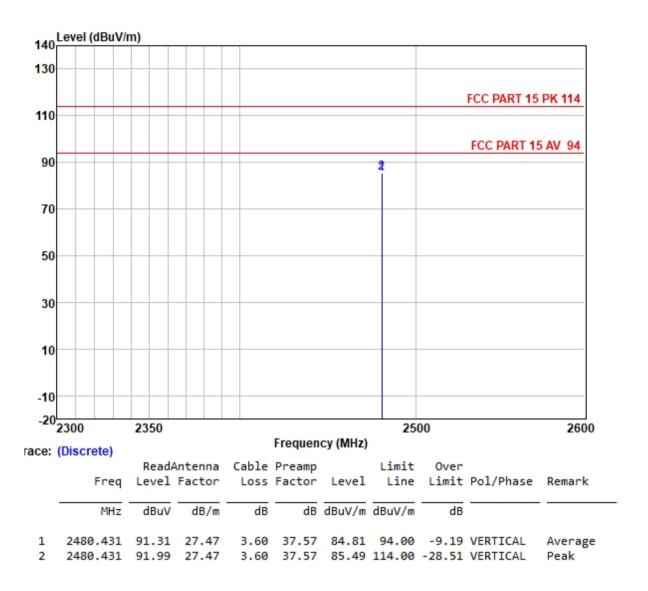
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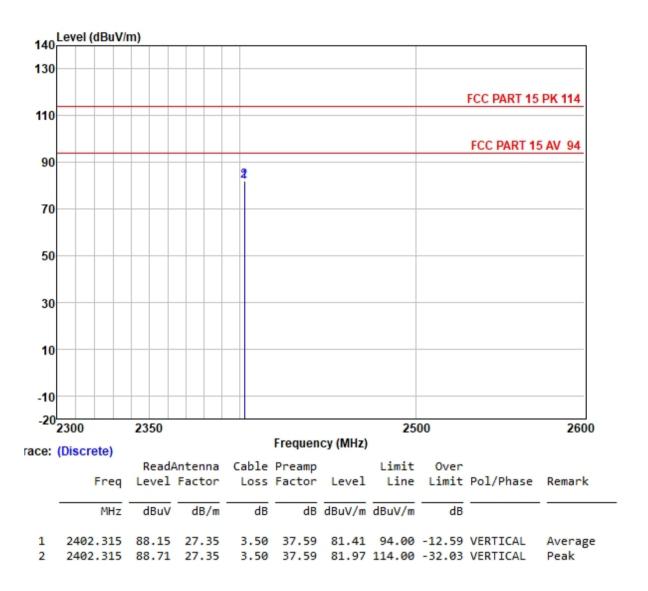
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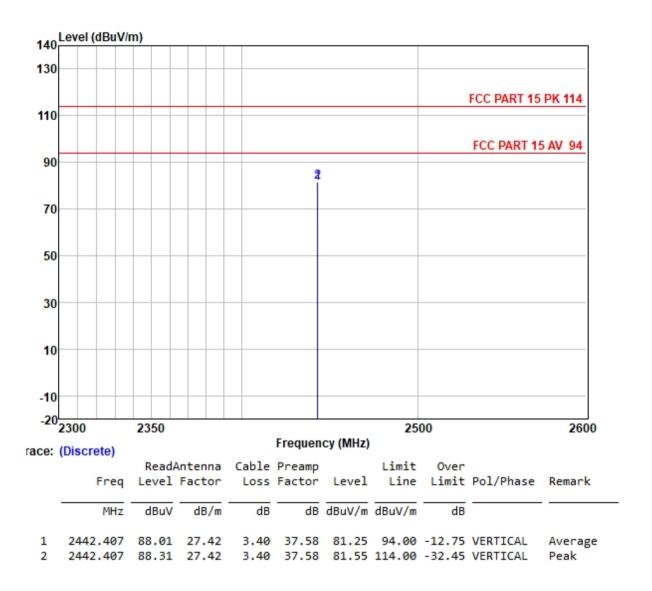
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; ; Channel:middle;





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### 7.3 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 (2013) Section 6.10.5

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.

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

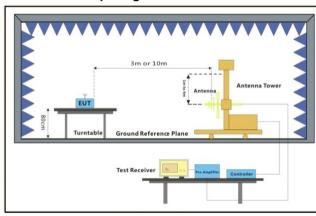
### 7.3.2 Test Mode Description

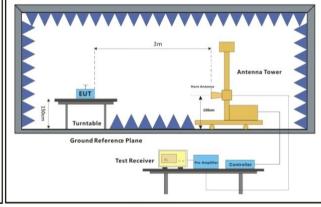
Pre-scan / Mode Final test Code

Description

Final test 03 TX mode\_Keep the EUT in transmitting with modulation mode.

#### 7.3.3 Test Setup Diagram





30MHz-1GHz Above 1GHz

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#### 7.3.4 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. Test the EUT in the lowest channel, the Highest channel.
- i. 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.
- j. Repeat above procedures until all frequencies measured was complete.

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

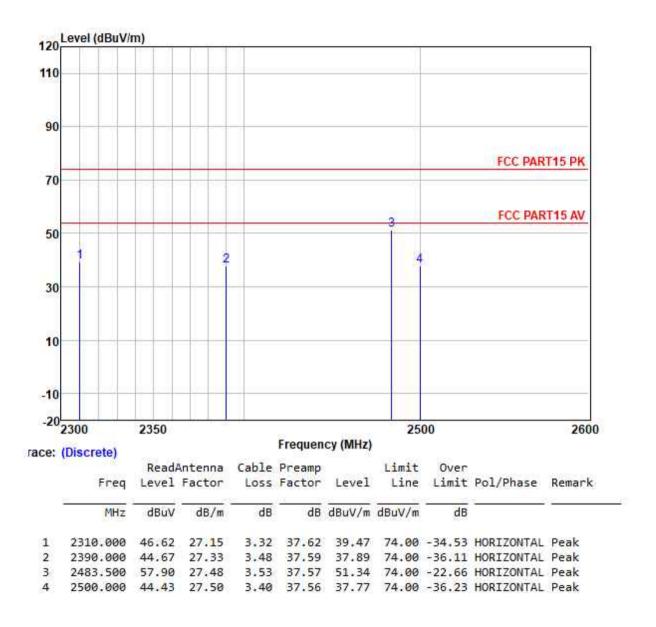




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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; ; Channel:High;





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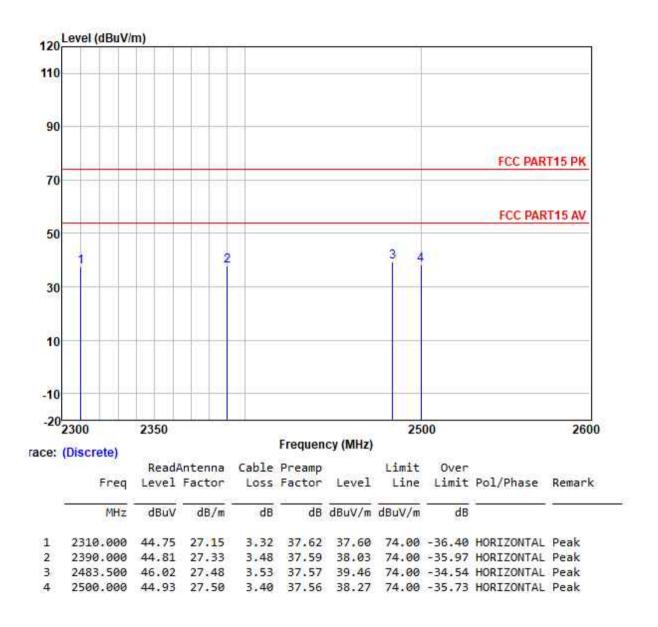
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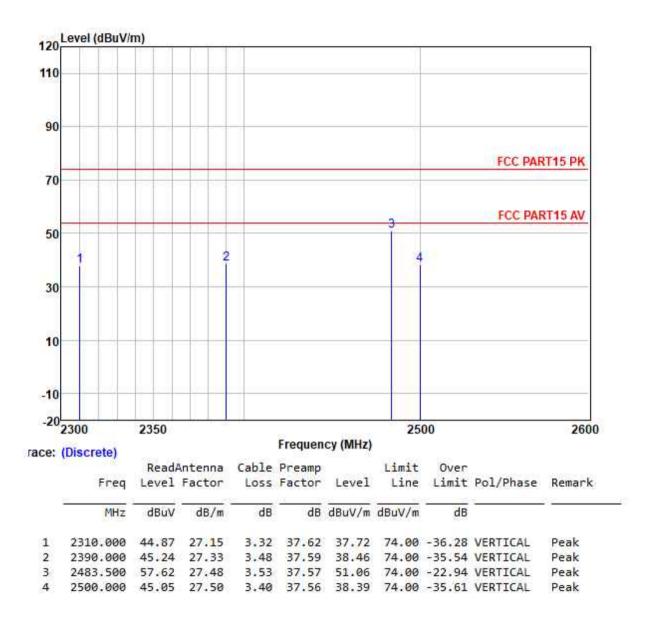
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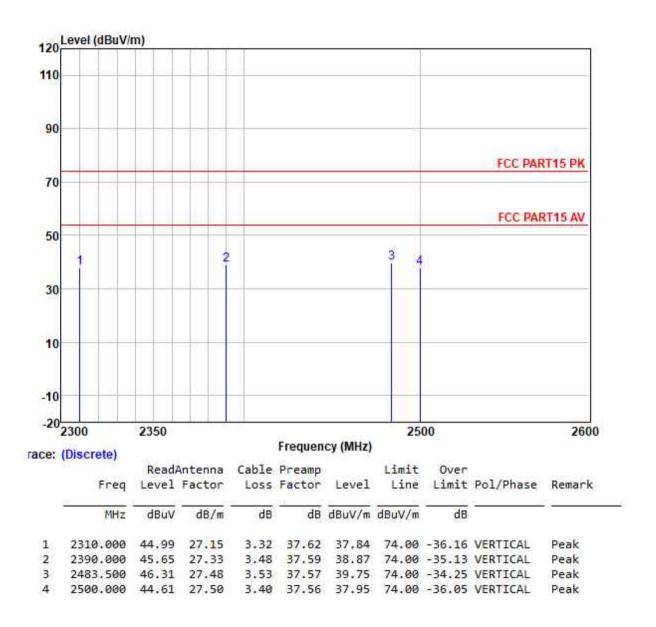
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; ; Channel:Low;





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### 7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

### 7.4.1 E.U.T. Operation

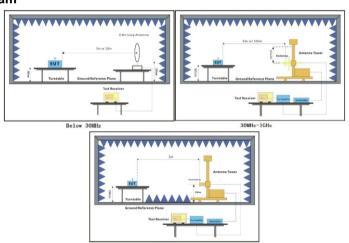
Operating Environment:

Temperature: 24 °C Humidity: 53 % RH Atmospheric Pressure: 1010 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	04	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

### 7.4.3 Test Setup Diagram





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#### 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. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. 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.
- j. Repeat above procedures until all frequencies measured was complete. Remark:
- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) 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

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.
- 4) 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.
- 5) Antenna: 2 denotes the type of antenna for 30-1000MHz; Antenna: 3 denotes the type of antenna for above 1000MHz.



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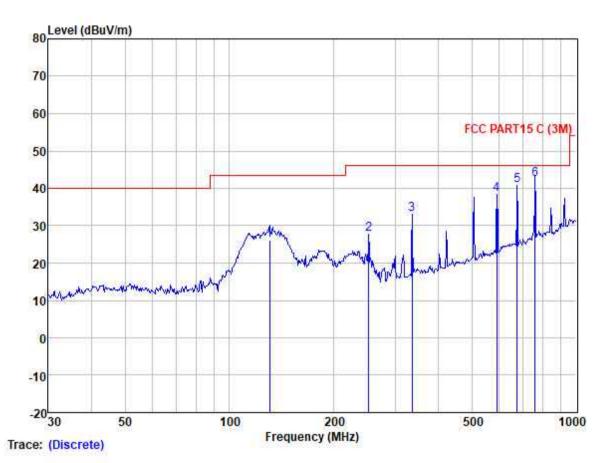
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low; Antenna: 2



Site : SGS

Condition : FCC PART15 C (3M) HORIZONTAL

Job :
Model :
Power :
Test Mode :

	Freq	Read Level				Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		3 <del>2 3</del>
1	130.38	38.92	12.15	1.97	26.99	26.05	43.50	-17.45	HORIZONTAL	QP
2	252.06	39.32	12.10	2.92	26.61	27.73	46.00	-18.27	HORIZONTAL	QP
3	336.04	42.00	14.50	3.46	26.79	33.17	46.00	-12.83	HORIZONTAL	QP
4	590.97	41.94	19.50	5.10	28.20	38.34	46.00	-7.66	HORIZONTAL	QP
5	675.21	42.61	20.75	5.65	28.17	40.84	46.00	-5.16	HORIZONTAL	QP
6	760.70	42.38	22.20	6.01	28.07	42.52	46.00	-3.48	HORIZONTAL	QP



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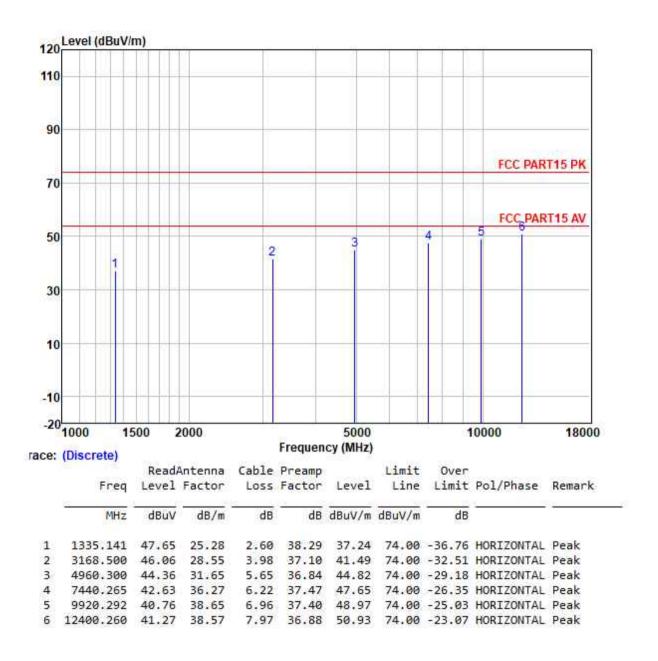
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; ; Channel:High; Antenna: 3





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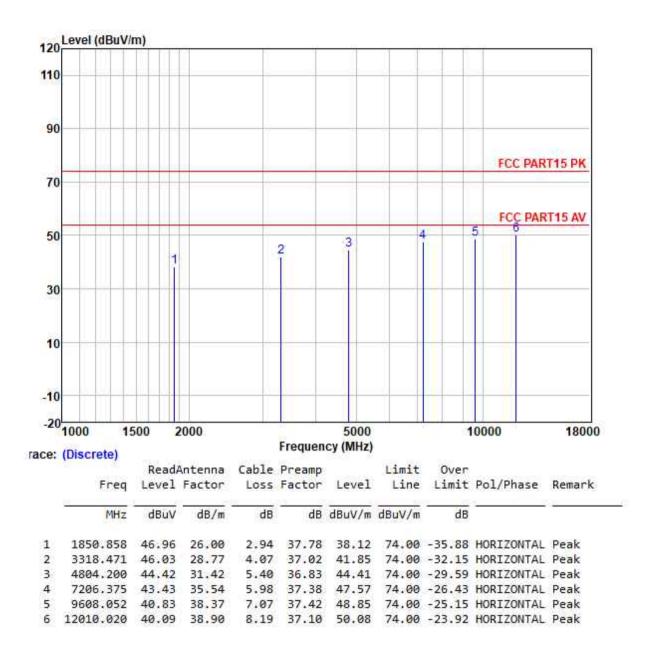
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low; Antenna: 3





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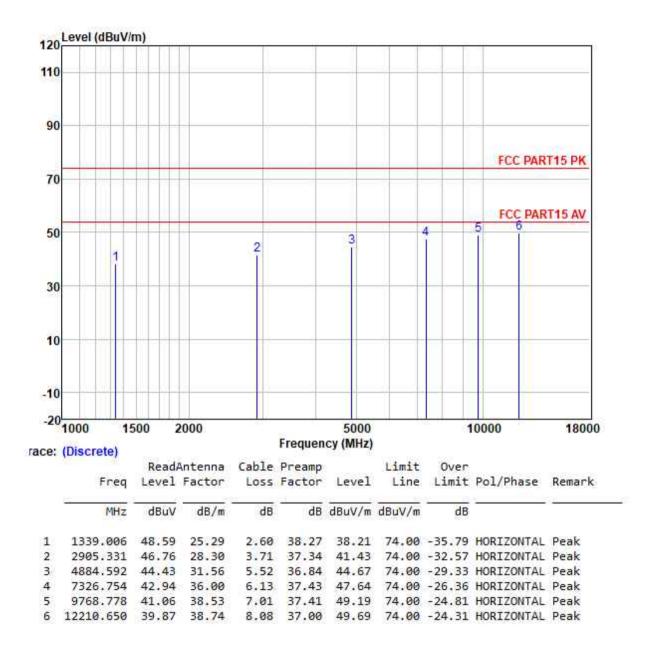
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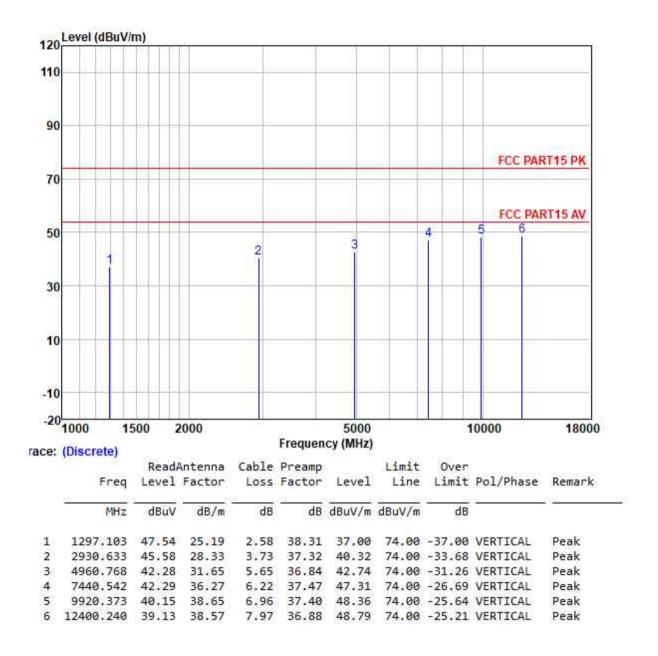
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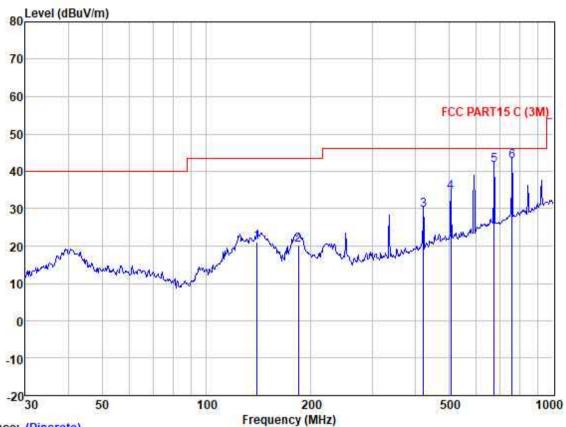
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; ; Channel:Low; Antenna: 2



Trace: (Discrete)

Site : SGS

Condition : FCC PART15 C (3M) VERTICAL

Job : Model : Power : Test Mode :

	Freq	Read Level				Measured Level		Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		2
1	139.85	32.53	13.30	2.10	26.93	21.00	43.50	-22.50	VERTICAL	QP
2	183.84	33.08	11.50	2.46	26.75	20.29	43.50	-23.21	VERTICAL	QP
3	422.06	36.71	16.37	4.04	27.43	29.69	46.00	-16.31	VERTICAL	QP
4	506.48	39.82	18.04	4.43	27.99	34.30	46.00	-11.70	VERTICAL	QP
5	675.21	43.37	20.75	5.65	28.17	41.60	46.00	-4.40	VERTICAL	QP
6	760.70	42.41	22.20	6.01	28.07	42.55	46.00	-3.45	VERTICAL	QP



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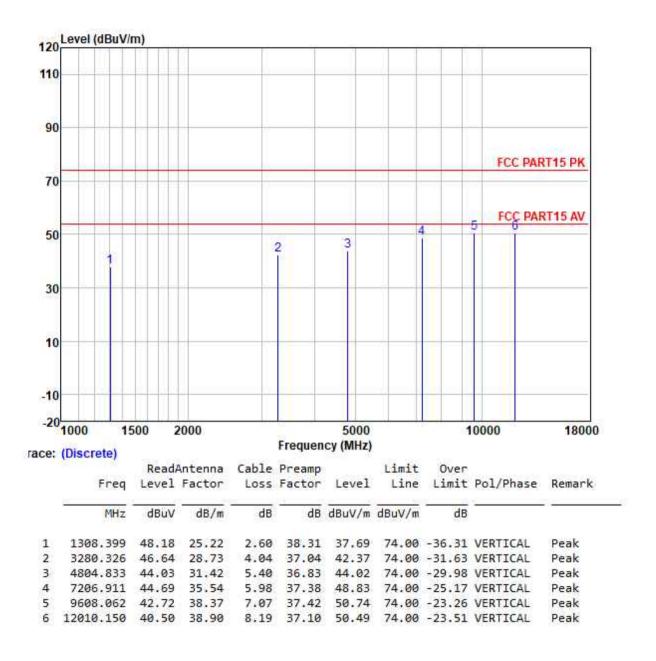
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; ; Channel:Low; Antenna: 3





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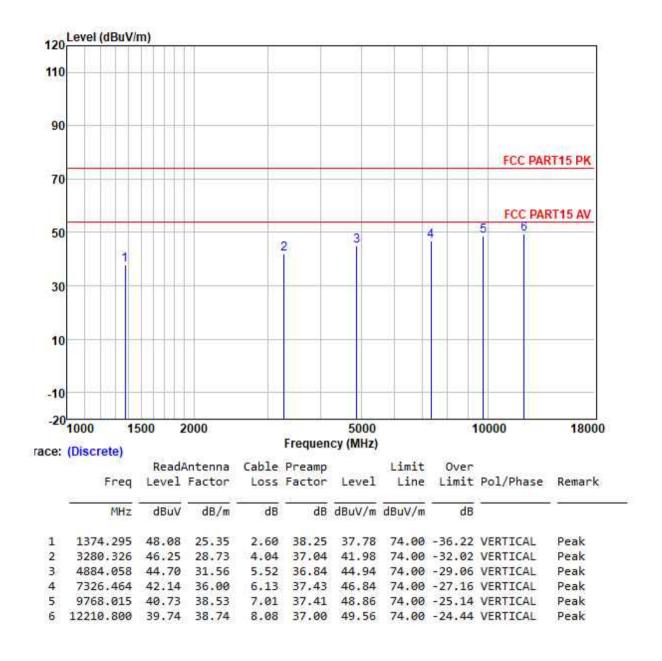
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### 7.5 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.249
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Eracuanay of amission/MU=)	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 the frequency.						
Detector: Peak for pre-scan (9kHz rese	olution bandwidth) 0.15M to 30	MHz				

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

### 7.5.2 Test Mode Description

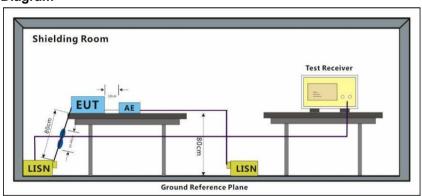
Pre-scan / Mode Final test Code Description

Charge + TX mode\_Keep the EUT in charging and transmitting with modulation

mode.

### 7.5.3 Test Setup Diagram

Final test





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#### 7.5.4 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  $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$  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

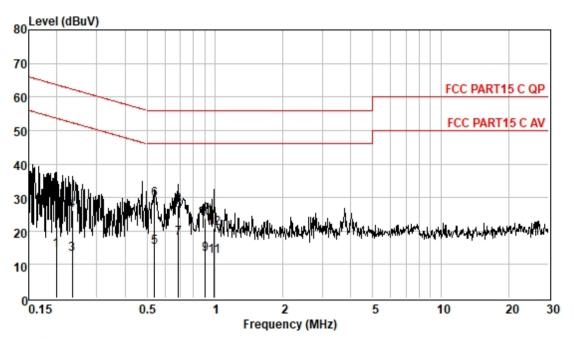




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Test Mode: 04; Line: Live line



Pol :LINE Mode : Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.20	4.66	0.06	9.63	14.35	53.67	-39.32	Average
0.20	19.07	0.06	9.63	28.76	63.67	-34.91	QP
0.23	3.29	0.06	9.62	12.97	52.30	-39.33	Average
0.23	16.42	0.06	9.62	26.10	62.30	-36.20	QP _
0.54	5.41	0.07	9.63	15.11	46.00	-30.89	Average
0.54	19.60	0.07	9.63	29.30	56.00	-26.70	QP
0.69	8.10	0.07	9.63	17.80	46.00	-28.20	Average
0.69	17.92	0.07	9.63	27.62	56.00	-28.38	QP
0.91	3.38	0.07	9.62	13.07	46.00	-32.93	Average
0.91	14.03	0.07	9.62	23.72	56.00	-32.28	QP
0.99	2.69	0.07	9.62	12.38	46.00	-33.62	Average
0.99	11.22	0.07	9.62	20.91	56.00	-35.09	QP _



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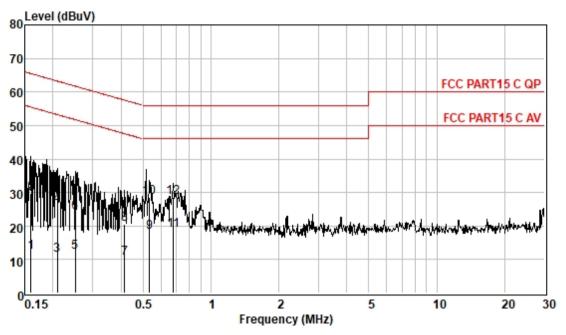
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Test Mode: 04; Line: Neutral Line



Pol :NEUTRAL

Mode Model:

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	2.57	0.06	9.55	12.18	55.47	-43.29	Average
0.16	20.12	0.06	9.55	29.73	65.47	-35.74	QP
0.21	1.67	0.06	9.54	11.27	53.23	-41.96	Average
0.21	16.71	0.06	9.54	26.31	63.23	-36.92	QP
0.25	2.51	0.06	9.55	12.12	51.73	-39.61	Average
0.25	14.35	0.06	9.55	23.96	61.73	-37.77	QP
0.41	0.89	0.06	9.56	10.51	47.55	-37.04	Average
0.41	10.87	0.06	9.56	20.49	57.55	-37.06	QP
0.53	8.63	0.07	9.55	18.25	46.00	-27.75	Average
0.53	18.81	0.07	9.55	28.43	56.00	-27.57	QP _
0.68	9.22	0.07	9.55	18.84	46.00	-27.16	Average
0.68	19.03	0.07	9.55	28.65	56.00	-27.35	QP



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### 8 Test Setup Photo

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



**RF Conducted Test** 





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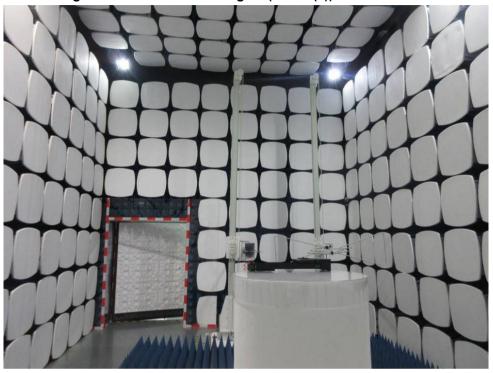
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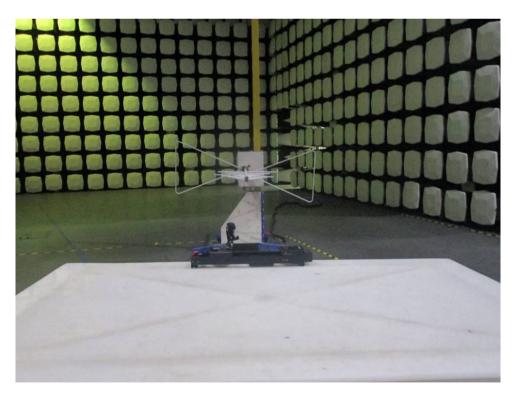


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### Radiated Emissions, Restricted Band Around Fundamental Frequency & Field Strength of the Fundamental Signal (15.249(a))







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### 9 EUT Constructional Details (EUT Photos)

Refer to external and internal photos for GZEM2012017637CR

- End of the Report -



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