FCC SDoC Test Report

For

Applicant name:	**FOXX Development Inc.**
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA
EUT name:	4G Smart Dash Camera Full HD
Brand name:	MIRO, FOXXD, FOXX
Model number:	VI02
Series model number:	N/A
FCC ID	2AQRM-VI02

Issued By

Company name:	**BTF Testing Lab (Shenzhen) Co., Ltd.**
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Report number:	BTF251215R00201
Test standards:	47 CFR Part 15, Subpart B
Test conclusion:	Pass
Date of sample receipt:	2025-12-15
Test date:	2025-12-15 to 2025-12-22
Date of issue:	2025-12-23

Prepared by: Chris Liu / Project engineer

Approved by: Ryan.CJ / EMC Manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-12-23	Original
Note: *Once the revision has been made, then previous versions reports are invalid.*		

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

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

- **FCC - Designation No.: CN1409**
  BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
  BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
  BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
- **VCCI - Registration No.: C-20122, G-20157, R-20166**
  EMC LAB: Certificated by VCCI, Japan
  Registration No.: C-20122, G-20157, R-20166
  Date of Registration: June 20, 2025
  This Certificate is valid until June 19, 2028

1.3 Announcement

(1) The test report reference to the report template version v0.
(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
(3) The test report is invalid if there is any evidence and/or falsification.
(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
(7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

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2 Product Information

2.1 Application Information

Company name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.2 Manufacturer Information

Company name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.3 Factory Information

Company name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.4 General Description of Equipment under Test (EUT)

EUT name:	4G Smart Dash Camera Full HD
Under test model name:	VI02
Series model name:	N/A
Description of model name differentiation:	N/A
Ratings:	Input:DC 12V

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3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards: **47 CFR Part 15, Subpart B:** Unintentional Radiators

3.2 Uncertainty of Test

Measurement	Value
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.80 dB
Radiated Emission (1GHz ~ 18GHz)	±4.82 dB
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Conducted emissions on AC mains	47 CFR Part 15, Subpart B	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass
Radiated emissions (Above 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass
Remark: *1. Pass: Meet the requirements.* *2. N/A: not applicable.*			

3.4 Additions to, deviations, or exclusions from the method

None

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4 Test Configuration

4.1 Test Equipment List

Conducted Emission Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2025/10/17	2026/10/16
V-LISN	Schwarzbeck	NSLK 8127	01073	2025/8/23	2026/8/22
Coaxial Switcher	Schwarzbeck	CX210	CX210	/	/
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	/	/
LISN-Cable	REBES Talent	LISN9K30M	21101580	2025/8/23	2026/8/22
Test Software	Frad	EZ_EMC	Version: EMC-CON 3A1.1+		

Radiated Emission Test					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI7	101032	2025/10/17	2026/10/16
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2025/10/17	2026/10/16
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2025/10/18	2026/10/17
Preamplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9744	00246	2025/5/26	2026/5/25
BELOW-Cable	REBES Talent	9K1G	21101576	2025/8/23	2026/8/22
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2025/10/18	2026/10/17
Preamplifier (1GHz ~ 18GHz)	Schwarzbeck	BBV9718D	00008	2025/5/26	2026/5/25
Preamplifier	TSTPASS	LNA10180G45	TS2215007	2025/5/26	2026/5/25
ABOVE-Cable	REBES Talent	1~18G	21101558	2025/8/23	2026/8/22
Horn Antenna	SCHWARZBECK	BBHA9170	1157	2025/10/18	2026/10/17
Low Noise Pre-amplifier	Sket	LNPA_1840G-50	SK2022032902	2025/10/17	2026/10/16
ABOVE-Cable2	REBES Talent	18~40G	21101686	2025/8/23	2026/8/22
ABOVE-Cable1	REBES Talent	18~40G	21101687	2025/8/23	2026/8/22
Test Software	Frad	EZ_EMC	Version: FA-03A2 RE+		

4.2 Test Auxiliary Equipment

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Auto Range DC Power Supply	ITECH	IT6721	/	

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4.3 Test Modes

No.	Test Modes
TM1	Working+4G Link Mode

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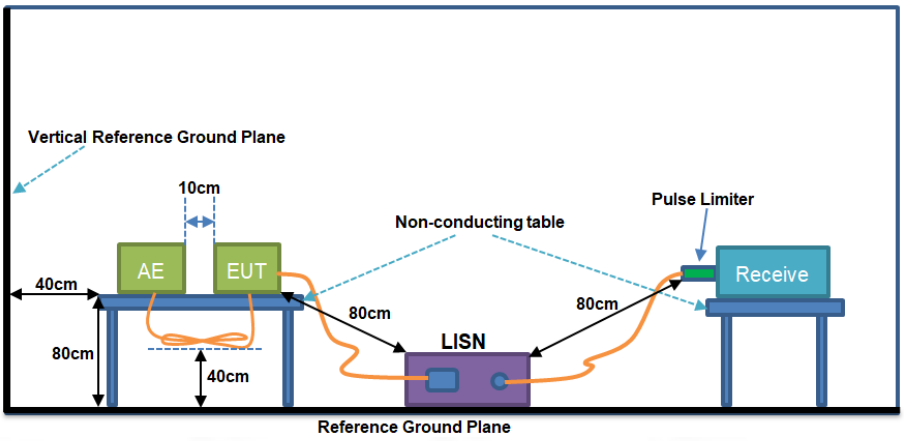
5 Emission Test Results (EMI)

5.1 Conducted emissions on AC mains

<table>
<tr><td>Test Requirement:</td><td>15.107, Class B</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.4a-2017</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><th rowspan="2">Frequency of emission (MHz)</th><th colspan="2">Conducted limit (dBμV)</th></tr>
<tr><th>Quasi-peak</th><th>Average</th></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
<tr><td colspan="3">*Decreases with the logarithm of the frequency.</td></tr>
</table>
</td></tr>
<tr><td>Procedure:</td><td>An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.
Remark: Level= Read Level+ Cable Loss+ LISN Factor</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td colspan="2">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>22.4 °C</td></tr>
<tr><td>Humidity:</td><td>50.7 %</td></tr>
<tr><td>Atmospheric Pressure:</td><td>1010 mbar</td></tr>
<tr><td>Test voltage:</td><td>AC 120V 60Hz</td></tr>
</table>

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5.1.1 Test Data

Not applicable.
Note:The EUT is powered by DC power.

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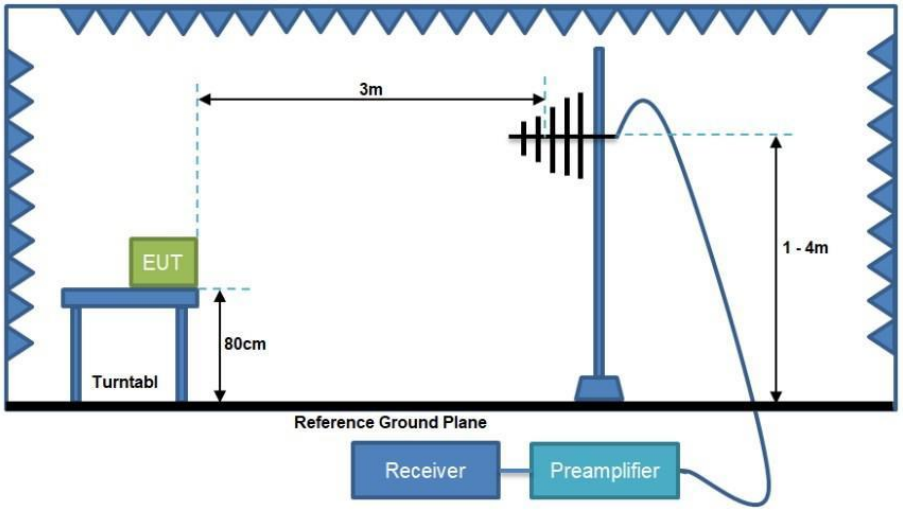
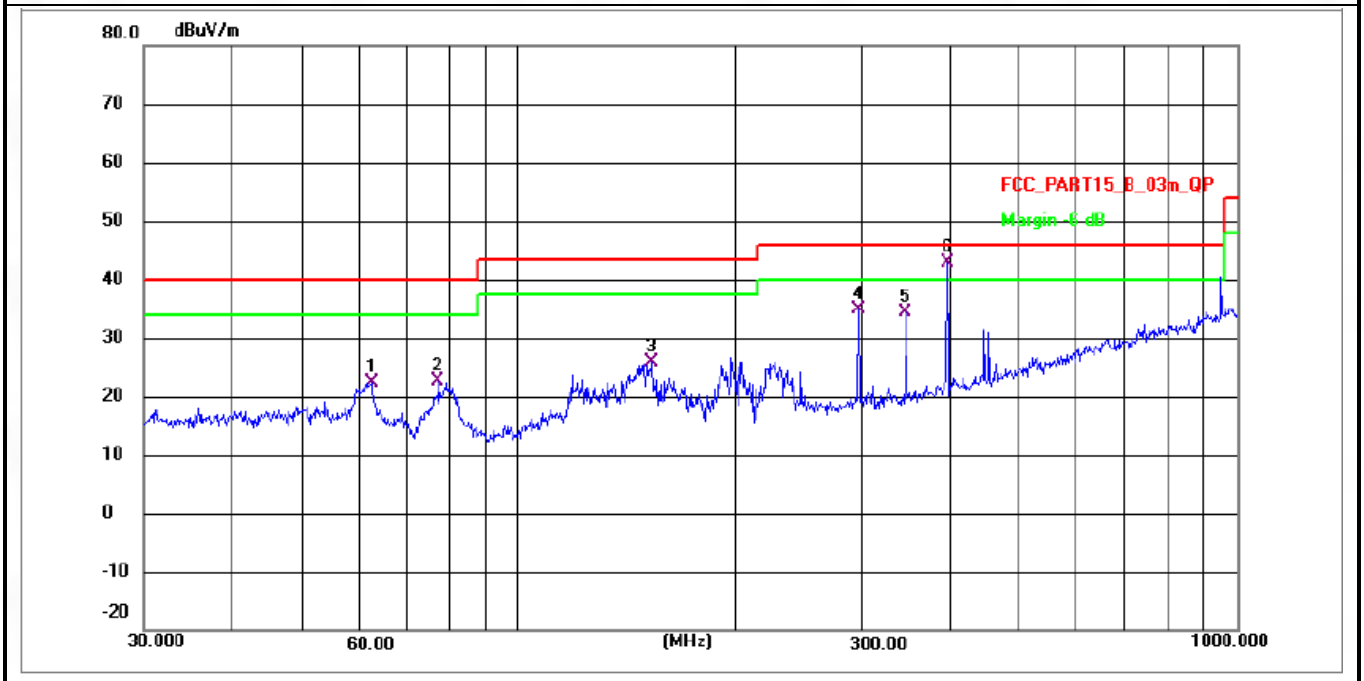
5.2 Radiated emissions (Below 1GHz)

<table>
<tr><td>Test Requirement:</td><td>15.109, Class B</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.4a-2017</td></tr>
<tr><td>Test Limit:</td><td>Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:
<table>
<tr><th rowspan="2">Frequency of emission (MHz)</th><th colspan="2">Field strength @3m</th><th colspan="2">Field strength @10m</th></tr>
<tr><th>(uV/m)</th><th>(dBuV/m)</th><th>(uV/m)</th><th>(dBuV/m)</th></tr>
<tr><td>30 – 88</td><td>100</td><td>40</td><td>30</td><td>29.5</td></tr>
<tr><td>88 – 216</td><td>150</td><td>43.5</td><td>45</td><td>33.1</td></tr>
<tr><td>216 – 960</td><td>200</td><td>46</td><td>60</td><td>35.6</td></tr>
<tr><td>Above 960</td><td>500</td><td>54</td><td>150</td><td>43.5</td></tr>
</table></td></tr>
<tr><td>Procedure:</td><td>An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td colspan="2">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>22.2 °C</td></tr>
<tr><td>Humidity:</td><td>51.7 %</td></tr>
<tr><td>Atmospheric Pressure:</td><td>1010 mbar</td></tr>
<tr><td>Test voltage:</td><td>DC 12V</td></tr>
</table>

5.2.1 Test Data

Remark: The report only reflects the test data of worst mode.

TM2 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	62.3220	31.78	-9.47	22.31	40.00	-17.69	QP	P
2	77.3212	31.92	-9.32	22.60	40.00	-17.40	QP	P
3	153.4692	34.85	-8.92	25.93	43.50	-17.57	QP	P
4	297.2241	43.28	-8.39	34.89	46.00	-11.11	QP	P
5	346.8092	42.23	-7.75	34.48	46.00	-11.52	QP	P
6 *	396.2415	51.46	-8.55	42.91	46.00	-3.09	QP	P

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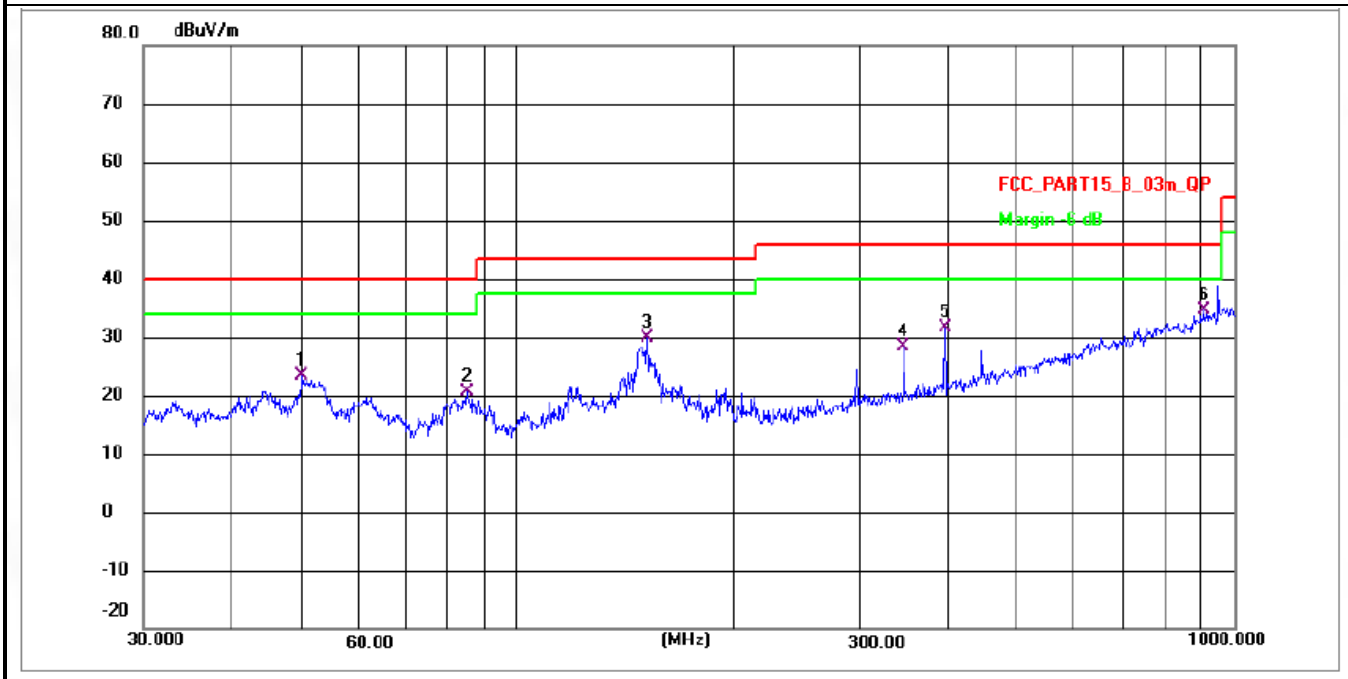
TM2 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	50.0566	33.01	-9.59	23.42	40.00	-16.58	QP	P
2	84.8506	29.44	-8.77	20.67	40.00	-19.33	QP	P
3	151.5972	38.74	-8.98	29.76	43.50	-13.74	QP	P
4	346.8092	36.25	-7.75	28.50	46.00	-17.50	QP	P
5	396.2415	40.06	-8.55	31.51	46.00	-14.49	QP	P
6 *	909.6667	55.56	-20.87	34.69	46.00	-11.31	QP	P

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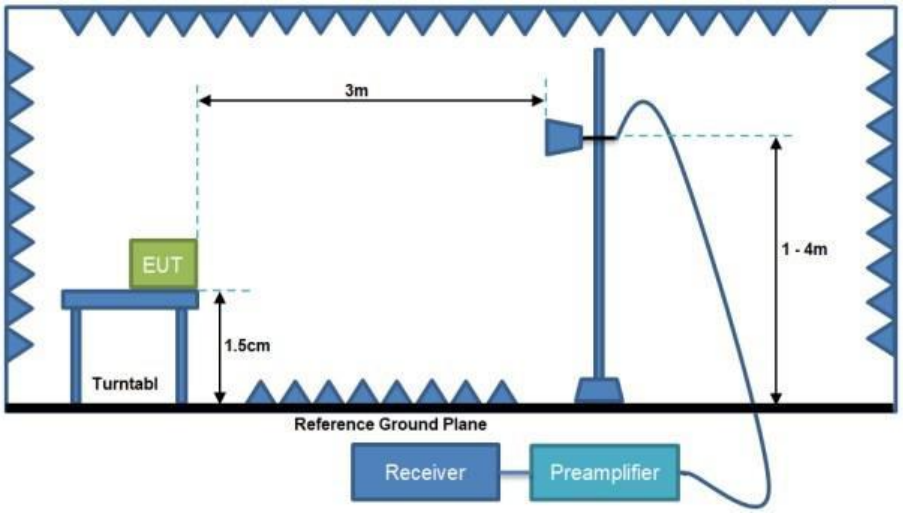
5.3 Radiated emissions (Above 1GHz)

<table>
<tr><td>Test Requirement:</td><td colspan="4">15.109, Class B</td></tr>
<tr><td>Test Method:</td><td colspan="4">ANSI C63.4a-2017</td></tr>
<tr><td>Test Limit:</td><td colspan="4"><table>
<tr><th rowspan="2">Frequency of emission (MHz)</th><th colspan="3">Field strength @3m</th></tr>
<tr><th>Average (uV/m)</th><th>Average(dBuV/m)</th><th>Peak (dBuV/m)</th></tr>
<tr><td>Above 1GHz</td><td>500</td><td>54</td><td>74</td></tr>
</table></td></tr>
<tr><td>Procedure:</td><td colspan="4">An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. For below 1GHz test, Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. For above 1GHz test, Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</td></tr>
<tr><td>Test Setup:</td><td colspan="4"> 
</td></tr>
<tr><td colspan="5">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td colspan="4">25.5 °C</td></tr>
<tr><td>Humidity:</td><td colspan="4">45.5 %</td></tr>
<tr><td>Atmospheric Pressure:</td><td colspan="4">1010 mbar</td></tr>
<tr><td>Test voltage:</td><td colspan="4">DC 12V</td></tr>
</table>

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5.3.1 Test Data

Remark: The report only reflects the test data of worst mode.

TM2 / Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin (dB)	Detector	P/F
1	2241.36	81.05	-49.41	31.64	74.00	-42.36	peak	P
2	2241.36	71.95	-49.41	22.54	54.00	-31.46	AVG	P
3	2743.50	98.94	-49.22	49.72	74.00	-24.28	peak	P
4	2743.50	88.26	-49.22	39.04	54.00	-14.96	AVG	P
5	3255.66	97.00	-49.33	47.67	74.00	-26.33	peak	P
6	3255.66	86.24	-49.33	36.91	54.00	-17.09	AVG	P
7	3741.31	98.17	-49.32	48.85	74.00	-25.15	peak	P
8	3741.31	89.01	-49.32	39.69	54.00	-14.31	AVG	P
9	4261.76	100.14	-48.98	51.16	74.00	-22.84	peak	P
10	4261.76	87.31	-48.98	38.33	54.00	-15.67	AVG	P
11	4787.42	98.36	-48.68	49.68	74.00	-24.32	peak	P
12	4787.42	87.86	-48.68	39.18	54.00	-14.82	AVG	P

TM2 / Polarization: Vertical

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin (dB)	Detector	P/F
1	2964.43	79.31	-49.41	29.90	74.00	-44.10	peak	P
2	2964.43	70.21	-49.41	20.80	54.00	-33.20	AVG	P
3	3466.57	97.20	-49.22	47.98	74.00	-26.02	peak	P
4	3466.57	86.52	-49.22	37.30	54.00	-16.70	AVG	P
5	3978.73	95.26	-49.33	45.93	74.00	-28.07	peak	P
6	3978.73	84.50	-49.33	35.17	54.00	-18.83	AVG	P
7	4464.38	96.43	-49.32	47.11	74.00	-26.89	peak	P
8	4464.38	87.27	-49.32	37.95	54.00	-16.05	AVG	P
9	4984.83	98.40	-48.98	49.42	74.00	-24.58	peak	P
10	4984.83	85.57	-48.98	36.59	54.00	-17.41	AVG	P
11	5510.49	96.62	-48.68	47.94	74.00	-26.06	peak	P
12	5510.49	86.12	-48.68	37.44	54.00	-16.56	AVG	P

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6 Test Setup Photos

Please refer to Appendix I Test Setup Photos

7 EUT Constructional Details (EUT Photos)

Please refer to Appendix II External Photos& Appendix III Internal Photos

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