

**FCC TEST REPORT**

For

ARTIKA FOR LIVING INC**LED FLUSH MOUNT LIGHT****Test Model: FM-GV5C-HD2BL**

**Additional Model No.: FXF20210E-30A5T90,
FXF20210E-XXXXXXX, FM-GV5C-XXXXXX ("XXXXXX" can be A to Z and/or
0 to 9 and/or blank (commercial code))**

Prepared for : ARTIKA FOR LIVING INC
Address : 1756 50th avenue, Lachine, Qc, Canada H8T 2V5

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
101, 201 Bldg A & 301 Bldg C, Juji Industrial Park
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Date of receipt of test sample : April 12, 2024
Number of tested samples : 1
Serial number : Prototype
Sample No. : A240412045001
Date of Test : April 12, 2024 to April 16, 2024
Date of Report : April 17, 2024



**TEST REPORT****Report No.** : **LCSA04014370E**

Date of Issue..... : April 17, 2024

Testing Laboratory Name : **Shenzhen LCS Compliance Testing Laboratory Ltd.**Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park
Yabianxueziwei, Shajing Street, Baoan District,
Shenzhen, 518000, ChinaTesting Location/ Procedure..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name**..... : **ARTIKA FOR LIVING INC**

Address..... : 1756 50th avenue, Lachine, Qc, Canada H8T 2V5

Test SpecificationStandard : FCC 47 CFR Part 15, Subpart B
ANSI C63.4-2014

Test Report Form No. : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test Item Description. : **LED FLUSH MOUNT LIGHT**

Trade Mark..... : Denghou, Artika

Test Model : FM-GV5C-HD2BL

Result..... : **Positive****Compiled by:**

Emma wang / File Administrator

Supervised by:

Baron Wen / Technique principal

Approved by:

Gavin Liang / Manager





TEST REPORT

Test Report No.: LCSA04014370E	<u>April 17, 2024</u> Date of issue
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Test Model	: FM-GV5C-HD2BL
EUT	: LED FLUSH MOUNT LIGHT
Applicant	: ARTIKA FOR LIVING INC
Address	: 1756 50th avenue, Lachine, Qc, Canada H8T 2V5
Telephone	: /
Fax	: /
Manufacturer	: Zhejiang Meka Optoelectronic Co.,Ltd
Address	: 8 Canghai Road, Lihai Industrial Park, Binhai New City, Yuecheng District, Shaoxing City, Zhejiang Province, China
Telephone	: /
Fax	: /
Factory	: Zhejiang Meka Optoelectronic Co.,Ltd
Address	: 8 Canghai Road, Lihai Industrial Park, Binhai New City, Yuecheng District, Shaoxing City, Zhejiang Province, China
Telephone	: /
Fax	: /

Test Result	Positive
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	April 17, 2024	Initial Issue	/





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1. SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

Description of Test Item	Standard	Limits	Result
Conducted emissions on AC mains	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.109, Class B	Pass





1.2 Description of Test Modes

No	Title	Description
TM1	Working(AC 120V/60Hz)	Record





2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	: LED FLUSH MOUNT LIGHT
Test Model	: FM-GV5C-HD2BL FXF20210E-30A5T90,
Additional Model No.	: FXF20210E-XXXXXXX, FM-GV5C-XXXXXX ("XXXXXX" can be A to Z and/or 0 to 9 and/or blank (commercial code))
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Power Supply	: 120V~, 275mA, 30W, 60Hz
Highest Internal Frequency	: 1.705-108MHz
Classification of Equipment	: Class B

Highest internal frequency (Fx)	Highest measured frequency
$F_x \leq 1.705\text{MHz}$	30MHz
$1.705\text{MHz} < F_x \leq 108\text{MHz}$	1GHz
$108\text{MHz} < F_x \leq 500\text{MHz}$	2GHz
$500\text{MHz} < F_x \leq 1000\text{MHz}$	5GHz
$F_x > 1\text{GHz}$	5 x Fx up to a maximum of 40GHz

2.2 Support equipment List

The EUT was tested as an independent device.

2.3 Description of Test Facility

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 LCS 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.

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

2.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emission (150kHz to 30MHz)	± 2.35 dB
Radiated Emission (30MHz to 1000MHz)	± 3.48 dB

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





3. MEASURING DEVICES AND TEST EQUIPMENT

Conducted emissions on AC mains					
Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	/	/
Artificial Mains	R&S	ENV216	101288	2023-06-09	2024-06-08
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2023-08-15	2024-08-14
EMI Test Receiver	R&S	ESR3	102312	2024-03-02	2025-03-01

Radiated emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	/	/
EMI Test Software	AUDIX	E3	/	/	/
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
EMI Test Receiver	R&S	ESR3	102311	2023-08-15	2024-08-14
Broadband Preamp	/	BP-01M18G	P190501	2023-06-09	2024-06-08
EMI Test Receiver	R&S	ESCI7	101173	2023-10-25	2024-10-24
By-log Antenna	SchwarzZBECK	VULB9163	01428	2023-09-05	2024-09-04





4. EMISSION TEST RESULTS (EMI)

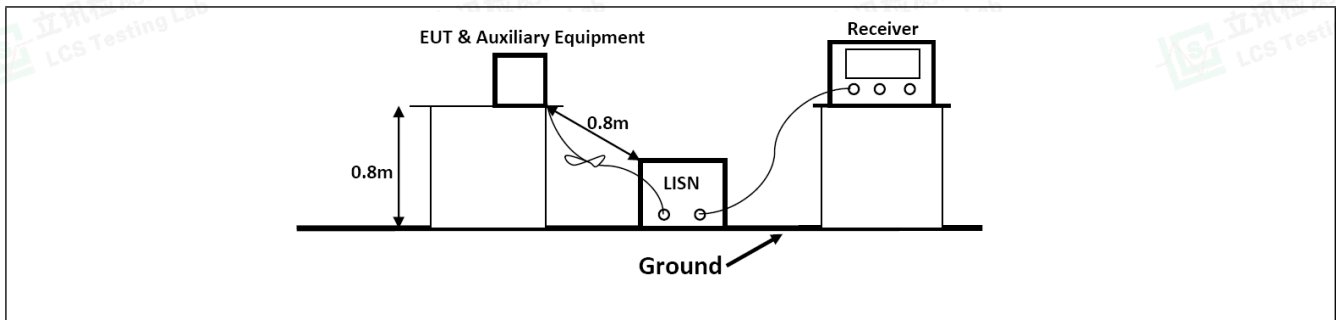
4.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBµV)	
		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.		
Test Method:	ANSI C63.4-2014		
Procedure:	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		

4.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.5 °C	Humidity:	53.6 %
Pre test mode:	TM1		
Final test mode:	TM1		

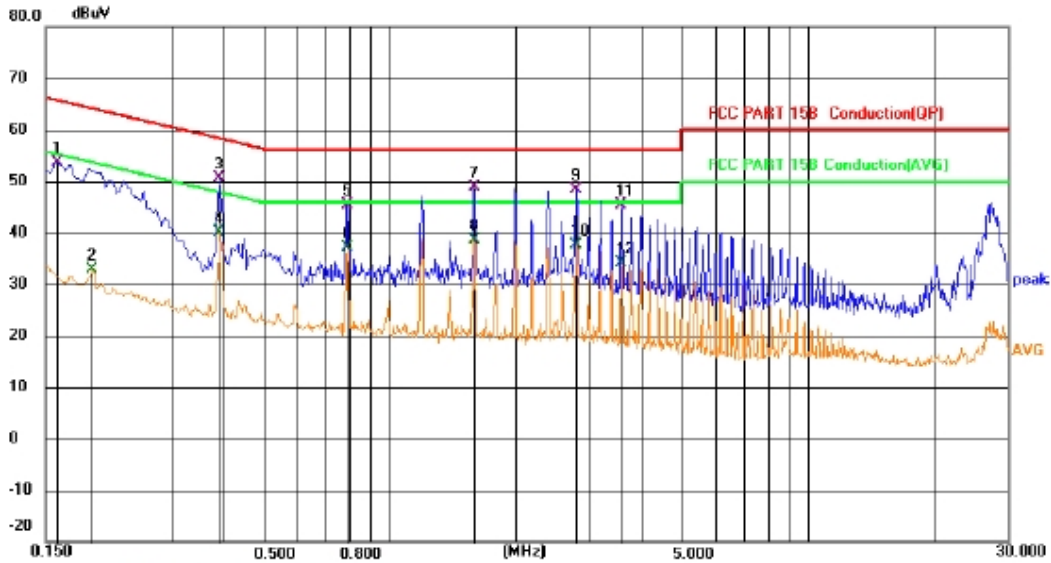
4.1.2 Test Setup Diagram:





4.1.3 Test Data:

TM1 / Line: Line

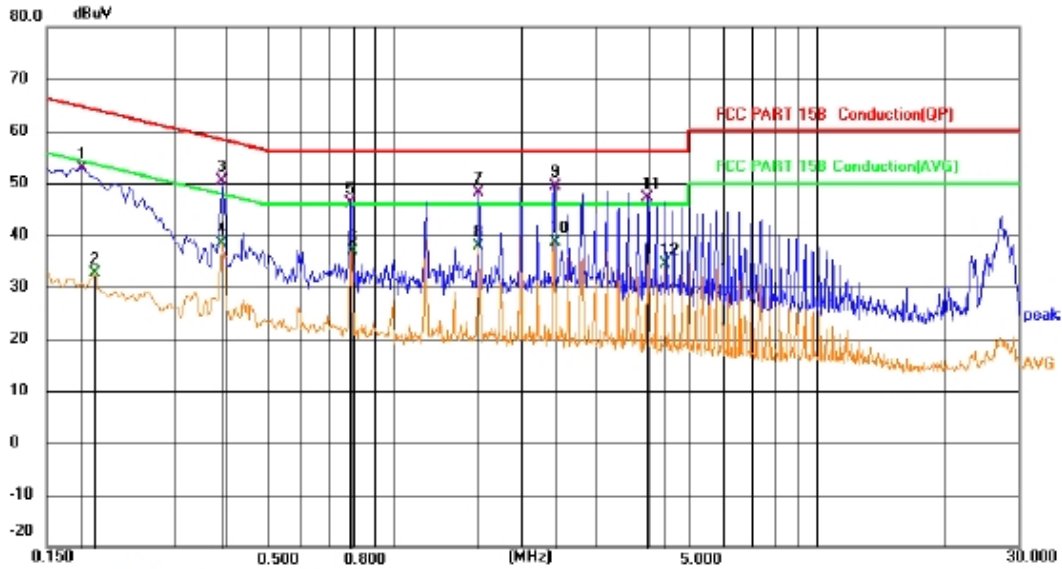


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1598	33.54	20.20	53.74	65.47	-11.73	QP	
2		0.1951	12.73	20.17	32.90	53.82	-20.92	AVG	
3		0.3930	30.43	20.26	50.69	58.00	-7.31	QP	
4		0.3930	19.75	20.26	40.01	48.00	-7.99	AVG	
5		0.7891	25.38	20.07	45.45	56.00	-10.55	QP	
6		0.7935	17.04	20.07	37.11	46.00	-8.89	AVG	
7	*	1.5901	28.60	20.17	48.77	56.00	-7.23	QP	
8		1.5901	18.58	20.17	38.75	46.00	-7.25	AVG	
9		2.7871	27.97	20.31	48.28	56.00	-7.72	QP	
10		2.7871	17.40	20.31	37.71	46.00	-8.29	AVG	
11		3.5836	25.10	20.21	45.31	56.00	-10.69	QP	
12		3.5836	13.83	20.21	34.04	46.00	-11.96	AVG	





TM1 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1816	32.79	20.01	52.80	64.41	-11.61	QP	
2		0.1951	12.55	20.05	32.60	53.82	-21.22	AVG	
3		0.3930	30.26	20.05	50.31	58.00	-7.69	QP	
4		0.3930	18.40	20.05	38.45	48.00	-9.55	AVG	
5		0.7890	25.92	20.31	46.23	56.00	-9.77	QP	
6		0.7935	16.55	20.31	36.86	46.00	-9.14	AVG	
7		1.5900	27.85	20.18	48.03	56.00	-7.97	QP	
8		1.5900	17.67	20.18	37.85	46.00	-8.15	AVG	
9	*	2.3865	29.26	20.22	49.48	56.00	-6.52	QP	
10		2.3865	18.51	20.22	38.73	46.00	-7.27	AVG	
11		3.9796	27.16	20.04	47.20	56.00	-8.80	QP	
12		4.3756	14.34	19.99	34.33	46.00	-11.67	AVG	

***Note: 1) Pre-scan all modes and recorded the worst case results in this report.

2) Margin= Reading level + Correct factor-Limit

Correct Factor= Lisn Factor+Cable Factor





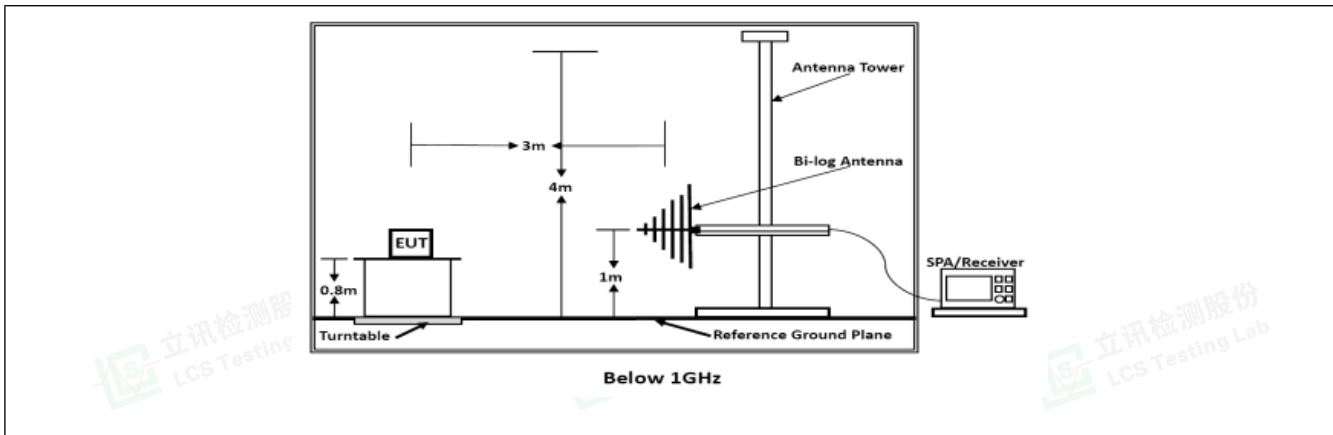
4.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Limit:	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:				
	Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
		(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
	30 – 88	100	40	30	29.5
	88 – 216	150	43.5	45	33.1
216 – 960	200	46	60	35.6	
Above 960	500	54	150	43.5	
Test Method:	ANSI C63.4-2014				
Procedure:	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				

4.2.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.3 °C	Humidity:	53.3 %
Pre test mode:	TM1		
Final test mode:	TM1		

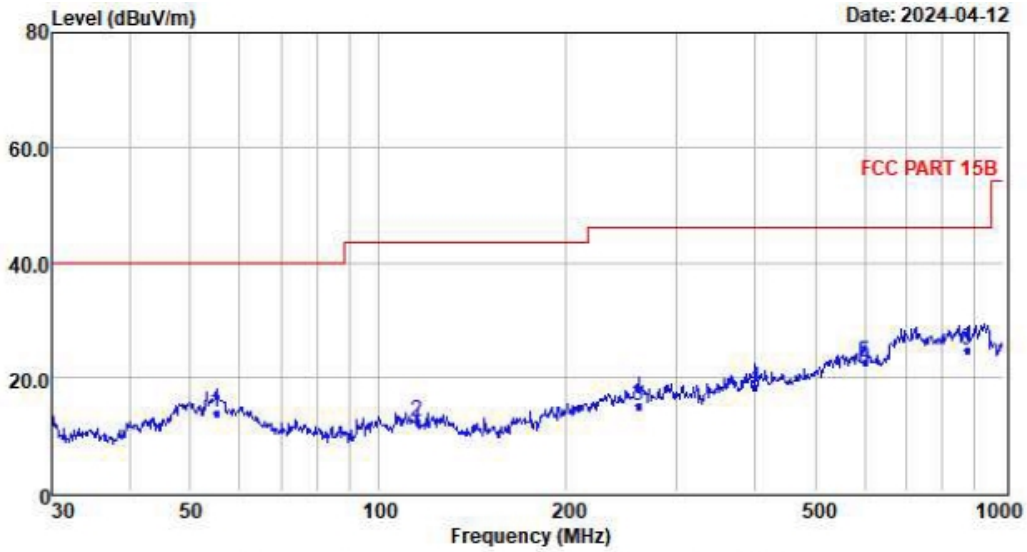
4.2.2 Test Setup Diagram:





4.2.3 Test Data:

TM1 / Polarization: Horizontal



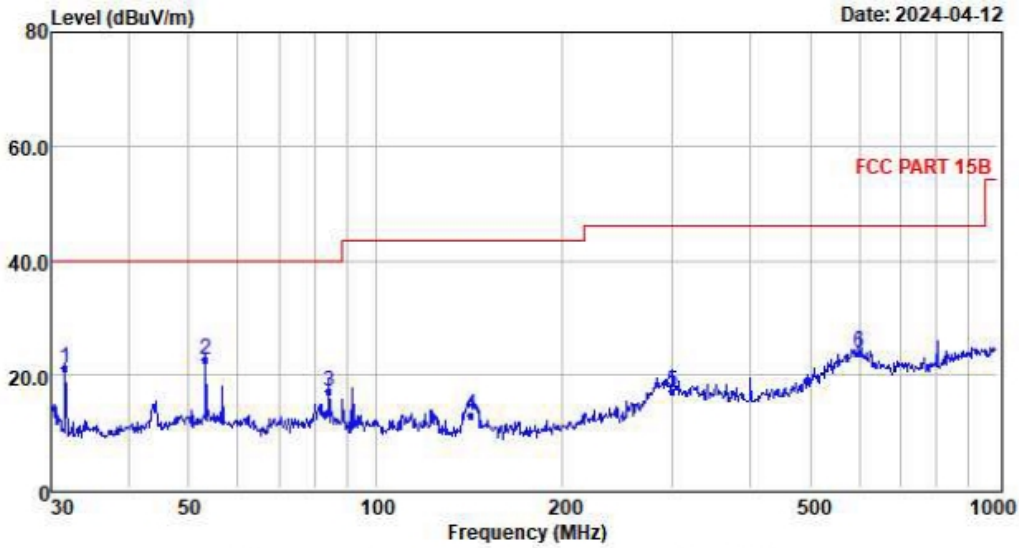
	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	55.03	0.55	0.63	12.55	13.73	40.00	-26.27	QP
2	115.32	0.32	0.88	10.97	12.17	43.50	-31.33	QP
3	261.06	0.92	1.28	12.76	14.96	46.00	-31.04	QP
4	400.43	2.11	1.40	14.72	18.23	46.00	-27.77	QP
5	601.43	1.74	1.50	19.28	22.52	46.00	-23.48	QP
6	875.25	1.31	2.08	21.20	24.59	46.00	-21.41	QP

- Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that are 20db below the official limit are not reported





TM1 / Polarization: Vertical



	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	31.62	9.85	0.42	10.70	20.97	40.00	-19.03	QP
2	53.13	9.38	0.62	12.57	22.57	40.00	-17.43	QP
3	84.11	6.61	0.75	9.67	17.03	40.00	-22.97	QP
4	142.32	3.35	1.00	8.55	12.90	43.50	-30.60	QP
5	300.37	1.81	1.32	13.70	16.83	46.00	-29.17	QP
6	601.43	3.04	1.50	19.28	23.82	46.00	-22.18	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that are 20db below the official limit are not reported

Note:1).Pre-Scan all mode, Thus record worse case mode result in this report.

2) Margin= Reading level + Correct factor – Limit

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor





5. TEST SETUP PHOTOS

Refer to Appendix - Test Setup Photos for LCSA04014370E.docx

6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA04014370E.docx

--- End of Report ---

