

# **FCC Test Report**

Report No.: AGC00174210901FE02A

FCC ID : XBE-LAXXIO

**APPLICATION PURPOSE**: Class II permissive change

**PRODUCT DESIGNATION**: LA33IO

**BRAND NAME** : LINAK

MODEL NAME : LA33IO

**APPLICANT** : LINAK A/S

**DATE OF ISSUE** : Jun. 01, 2023

**STANDARD(S)** : FCC Part 15.247

**REPORT VERSION**: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



Page 2 of 22

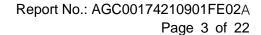
#### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 01, 2023	Valid	Initial Release

**Note:** The original test report AGC00174210901FE02 (dated Dec. 03, 2021 and tested from Sep. 17, 2021 to Dec. 02, 2021) was modified on Jun. 01, 2023, including the following changes and additions:

- -Change the device Product Designation;
- -Change the device Model Name;
- -Change the device Hardware Version;
- -Change the device Software Version;
- -PCB Layout adopted for component changes for the control functions. RF Portion (Bluetooth) remains fully identical;

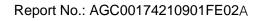
Based on the above changes, additional tests for Radiated Emission and Peak Output Power.





# **TABLE OF CONTENTS**

1. VERIFICATION OF COMPLIANCE	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
2.2. TABLE OF CARRIER FREQUENCYS	5
2.3. RELATED SUBMITTAL(S)/GRANT(S)	6
2.4. TEST METHODOLOGY	6
2.5. SPECIAL ACCESSORIES	6
2.6. EQUIPMENT MODIFICATIONS	6
2.7. ANTENNA REQUIREMENT	6
3. MEASUREMENT UNCERTAINTY	7
4. DESCRIPTION OF TEST MODES	8
5. SYSTEM TEST CONFIGURATION	9
5.1. CONFIGURATION OF TESTED SYSTEM	9
5.2. EQUIPMENT USED IN TESTED SYSTEM	9
5.3. SUMMARY OF TEST RESULTS	9
6. TEST FACILITY	10
7. PEAK OUTPUT POWER	12
7.1. MEASUREMENT PROCEDURE	12
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	12
7.3. LIMITS AND MEASUREMENT RESULT	13
8. RADIATED EMISSION	15
8.1. MEASUREMENT PROCEDURE	15
8.2. TEST SETUP	16
8.3. LIMITS AND MEASUREMENT RESULT	17
8.4. TEST RESULT	17
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	23
APPENDIX B: PHOTOGRAPHS OF EUT	23



Page 4 of 22



1. VERIFICATION OF COMPLIANCE

Applicant	LINAK A/S		
Address	Group Headquarters, Smedevænget 8, Guderup DK-6430 Nordborg, Denmark		
Manufacturer	LINAK A/S		
Address	Group Headquarters, Smedevænget 8, Guderup DK-6430 Nordborg, Denmark		
Factory	LINAK A/S		
Address	Group Headquarters, Smedevænget 8, Guderup DK-6430 Nordborg, Denmark		
Product Designation	LA33IO		
Brand Name	LINAK		
Test Model	LA33IO		
Date of receipt of test item	Nov. 28, 2022		
Date of test	Nov. 28, 2022 to Dec. 09, 2022 and Jun. 01, 2023		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BLE/RF		

# We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By	Cool chery.	
	Cool Cheng (Project Engineer)	Jun. 01, 2023
Reviewed By	Calvin Lin	
•	Calvin Liu (Reviewer)	Jun. 01, 2023
Approved By	Max Zhang	
-	Max Zhang (Authorized Officer)	Jun. 01, 2023



Page 5 of 22

# 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

The EUT is designed as a "LA33IO". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402GHz to 2.480GHz		
RF Output Power	-2.877dBm (Max)		
Bluetooth Version	V5.1		
Modulation	BR□GFSK, EDR□π /4-DQPSK, □8DPSK BLE□GFSK 1Mbps □GFSK 2Mbps		
Number of channels	40 Channels		
Antenna Designation	Omnidirectional Antenna (Comply with requirements of the FCC part 15.203)		
Antenna Gain	-2.10dBi		
Hardware Version	10CS33500033000-A		
Software Version	02023029v1.0		
Power Supply	DC 24V~DC 48V		

# 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
	0	2402 MHz	
	1	2404 MHz	
2400~2483.5MHz	:	·	
	38	2478 MHz	
	39	2480 MHz	



Page 6 of 22

# 2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: XBE-LAXXIO** filing to comply with the FCC Part 15.247 requirements.

#### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

#### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

# 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

#### 2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.



Page 7 of 22

# 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty		
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$		
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$		
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$		
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$		
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$		
Uncertainty of spurious emissions, conducted	$U_c = \pm 2.7 \%$		
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$		



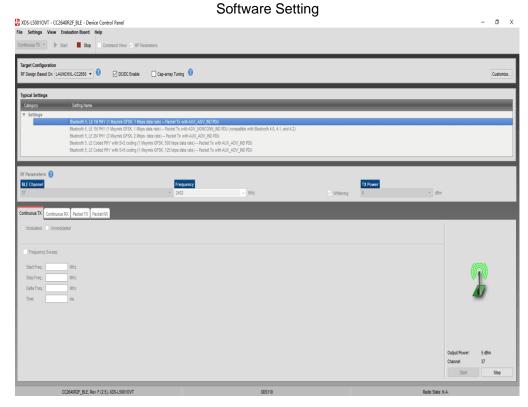
Page 8 of 22



4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Low channel TX_2402MHz_GFSK_1Mbps		
2	Middle channel TX_2440MHz_GFSK_1Mbps		
3	High channel TX_2480MHz_GFSK_1Mbps		

- Note: 1. Only the result of the worst case was recorded in the report, if no other cases.
  - 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
  - 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.





Page 9 of 22

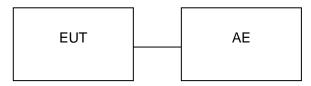
# 5. SYSTEM TEST CONFIGURATION

# **5.1. CONFIGURATION OF TESTED SYSTEM**

Radiated Emission Configure:



Conducted Emission Configure:



#### **5.2. EQUIPMENT USED IN TESTED SYSTEM**

Item Equipment		Model No.	ID or Specification	Remark
1	LA33IO	LA33IO	XBE-LAXXIO	EUT
2	Control Box	USB TO TTL	N/A	AE

# **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.209	Radiated Emission	Compliant



Page 10 of 22

# 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA

# **TEST EQUIPMENT OF RADIATED EMISSION TEST**

Equipment	Manufacturer Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
Test Receiver	R&S	ESCI	10096	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBECK	BBHA9170	768	Oct. 09, 2019	Oct. 08, 2021
Horn Antenna	SCHWARZBECK	BBHA9170	768	Oct. 07, 2021	Oct. 08, 2023
Horn Antenna	SCHWARZBEC	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Preamplifier Assembly	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Frequency Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 08, 2021	Jan. 07, 2023
Test Software	FARA	EZ-EMC	Ver.RA-03A	N/A	N/A

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Page 11 of 22



Page 12 of 22

# 7. PEAK OUTPUT POWER

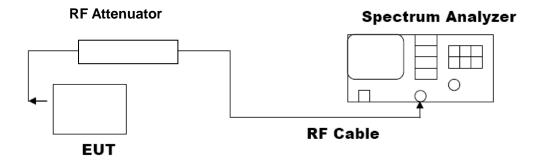
#### 7.1. MEASUREMENT PROCEDURE

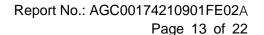
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW ≥ DTS bandwidth.
- 3. VBW≥3\*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

# 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



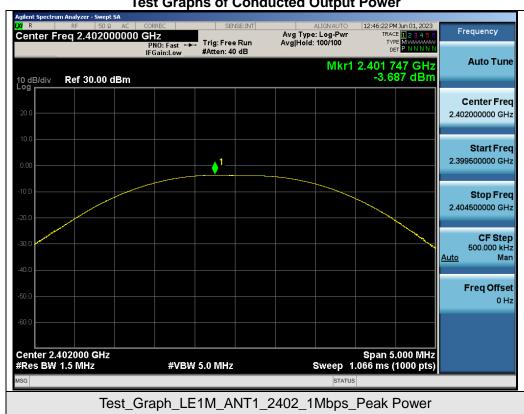


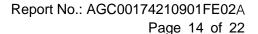


7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power						
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail		
	2402	-3.687	≤30	Pass		
GFSK 1M	2440	-3.048	≤30	Pass		
	2480	-2.877	≤30	Pass		

**Test Graphs of Conducted Output Power** 







10 dB/div

12:47:31 PM Jun 01, 2023 Center Freq 2.440000000 GHz Trig: Free Run PNO: Fast --IFGain:Low #Atten: 40 dB **Auto Tune** Mkr1 2.439 722 GHz -3.048 dBm Ref 30.00 dBm Center Freq 2.440000000 GHz Start Freq 2.437500000 GHz Stop Freq 2.442500000 GHz **CF Step** 500.000 kHz Man <u>Auto</u> Freq Offset





Page 15 of 22

# 8. RADIATED EMISSION

#### **8.1. MEASUREMENT PROCEDURE**

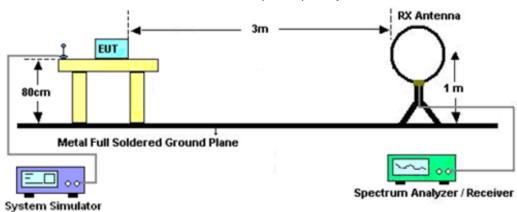
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

Page 16 of 22

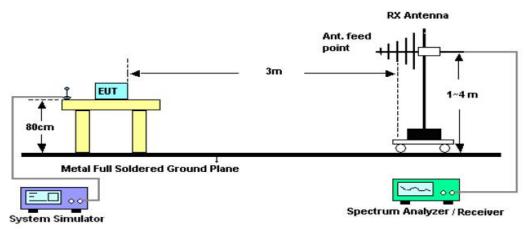


#### 8.2. TEST SETUP

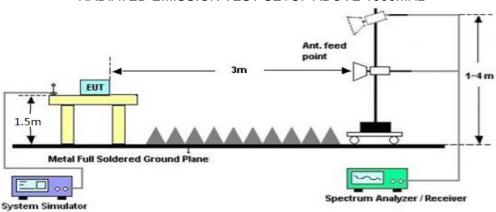
# Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



# RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 17 of 22

# 8.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

#### **8.4. TEST RESULT**

#### Radiated emission below 30MHz

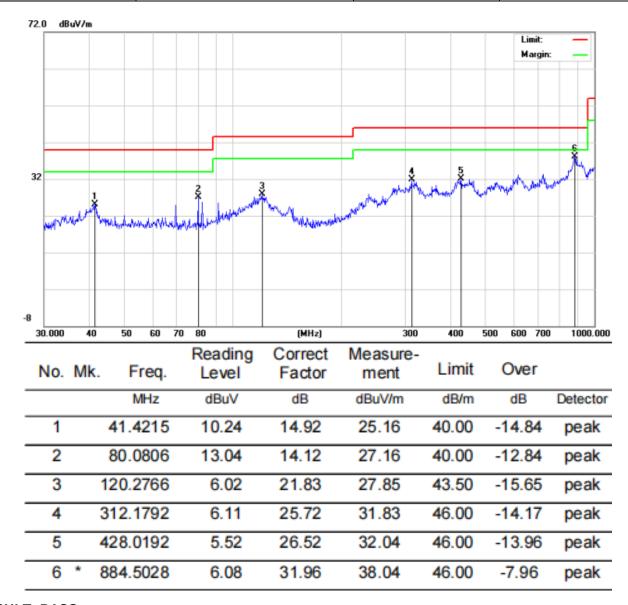
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.



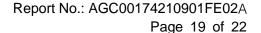


#### Radiated emission from 30MHz to 1000MHz

EUT	LA33IO	Model Name	LA33IO
Temperature	25°C	Relative Humidity	57%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

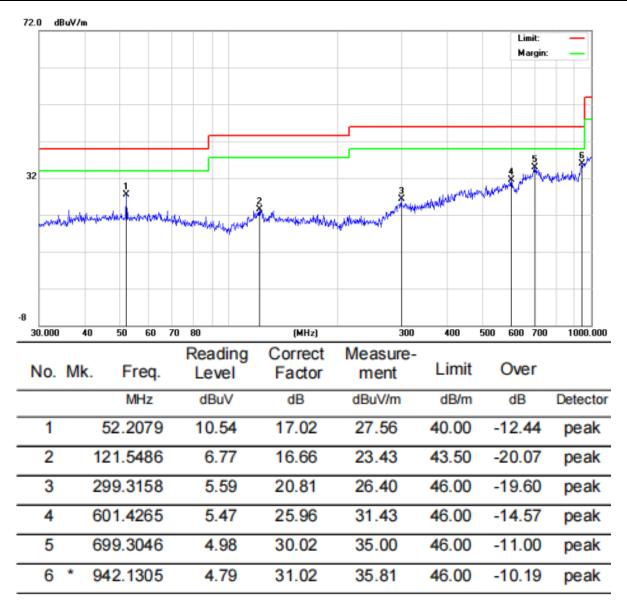


**RESULT: PASS** 





**EUT** LA33IO **Model Name** LA33IO 25°C **Temperature Relative Humidity** 57% 985hPa Normal Voltage **Pressure Test Voltage Test Mode** Mode 3 **Antenna** Vertical



#### **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.

2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.



Page 20 of 22

# Radiated emission above 1GHz

EUT	LA33IO	Model Name	LA33IO
Temperature	25°C	Relative Humidity	57%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	48.79	0.08	48.87	74	-25.13	peak
4804.000	36.54	0.08	36.62	54	-17.38	AVG
7206.000	44.91	2.21	47.12	74	-26.88	peak
7206.000	33.04	2.21	35.25	54	-18.75	AVG
Remark:						
actor = Anter	na Factor + Cabl	e Loss – Pre-a	ımplifier.			

EUT	LA33IO	Model Name	LA33IO
Temperature	25°C	Relative Humidity	57%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	46.87	0.08	46.95	74	-27.05	peak
4804.000	35.94	0.08	36.02	54	-17.98	AVG
7206.000	43.14	2.21	45.35	74	-28.65	peak
7206.000	32.01	2.21	34.22	54	-19.78	AVG
temark:						•

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Factor = Antenna Factor + Cable Loss - Pre-amplifier.



Page 21 of 22

EUT	LA33IO	Model Name	LA33IO
Temperature	25°C	Relative Humidity	57%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4880.000	49.31	0.14	49.45	74	-24.55	peak	
4880.000	38.54	0.14	38.68	54	-15.32	AVG	
7320.000	45.71	2.36	48.07	74	-25.93	peak	
7320.000	35.26	2.36	37.62	54	-16.38	AVG	
Remark:							
Factor = Anter	actor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	LA33IO	Model Name	LA33IO
Temperature	25°C	Relative Humidity	57%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	47.57	0.14	47.71	74	-26.29	peak
4880.000	38.42	0.14	38.56	54	-15.44	AVG
7320.000	44.37	2.36	46.73	74	-27.27	peak
7320.000	35.61	2.36	37.97	54	-16.03	AVG
emark:						



Page 22 of 22

EUT	LA33IO	Model Name	LA33IO
Temperature	25°C	Relative Humidity	57%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.000	48.73	0.22	48.95	74	-25.05	peak
4960.000	37.94	0.22	38.16	54	-15.84	AVG
7440.000	45.12	2.64	47.76	74	-26.24	peak
7440.000	33.37	2.64	36.01	54	-17.99	AVG
Remark:					•	•
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			

EUT	LA33IO	Model Name	LA33IO	
Temperature	25°C	Relative Humidity	57%	
Pressure	985hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 3	Antenna	Vertical	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	- Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.000	46.85	0.22	47.07	74	-26.93	peak
4960.000	37.41	0.22	37.63	54	-16.37	AVG
7440.000	43.34	2.64	45.98	74	-28.02	peak
7440.000	34.07	2.64	36.71	54	-17.29	AVG
Remark:	1		<b>'</b>		l	•
Factor = Anter	nna Factor + Cabl	<u>le Loss – Pre-</u>	amplifier.			

#### **RESULT: PASS**

#### Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



Page 23 of 22

# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC00174210901AP02A

**APPENDIX B: PHOTOGRAPHS OF EUT** 

Refer to the Report No.: AGC00174210901AP03A

----END OF REPORT----



# Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.