

# **FCC Test Report**

Report No.: AGC05125230702FR03

FCC ID	:	2AKSOUNIT-4
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Wireless Studio Monitor
BRAND NAME	:	AIAIAI
MODEL NAME	:	UNIT-4
APPLICANT	:	AIAIAI ApS
DATE OF ISSUE	:	Aug. 24, 2023
STANDARD(S)	:	FCC Part 15 Subpart C §15.249
<b>REPORT VERSION</b>	:	V1.0







# **REPORT REVISE RECORD**

<b>Report Version</b>	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 24, 2023	Valid	Initial Release



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# **1. VERIFICATION OF CONFORMITY**

Applicant	AIAIAI ApS
Address	Studiestraede 31, Copenhagen K, 1455 Denmark
Manufacturer	AIAIAI ApS
Address	Studiestraede 31, Copenhagen K, 1455 Denmark
Factory	ASKA Electronics Co., Ltd.
Address	No.5, Puxin Road, Keyuancheng, Tangxia Town, Dongguan, Guangdong, China
Product Designation	Wireless Studio Monitor
Brand Name	AIAIAI
Test Model	UNIT-4
Date of receipt of test item	Jul. 21, 2023
Date of test	Jul. 21, 2023 to Aug. 24, 2023
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-2.4G/RF

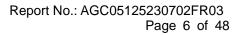
We hereby certify that:

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 Rules Part 15.249.

xCz-Ci Prepared By Cici Li Aug. 24, 2023 (Project Engineer) Reviewed By Calvin Liu Aug. 24, 2023 (Reviewer) Approved By

Max Zhang (Authorized Officer)

Aug. 24, 2023





# 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2403.35-2479.35MHz
Maximum field strengthAntenna 0: 97.47dBuV/m(Peak)@3m 93.34dBuV/m(Average)@3m Antenna 1: 96.80dBuV/m(Peak)@3m 93.19dBuV/m(Average)@3m	
Modulation	GFSK
Number of channels	39 Channels
Antenna Gain	0.41dBi
Antenna Designation	PCB Antenna (Met 15.203 Antenna requirement)
Hardware Version	V22
Software Version	V40
Power Supply	DC 14.6V by battery or DC 20V by adapter

#### Note:

The 2.4G antenna is controlled by software, and only one of the two antennas can be selected for normal operation.



#### 2.2. TABLE OF CARRIER FREQUENCY

Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2403.35	21	2443.35
2	2405.35	22	2445.35
3	2407.35	23	2447.35
4	2409.35	24	2449.35
5	2411.35	25	2451.35
6	2413.35	26	2453.35
7	2415.35	27	2455.35
8	2417.35	28	2457.35
9	2419.35	29	2459.35
10	2421.35	30	2461.35
11	2423.35	31	2463.35
12	2425.35	32	2465.35
13	2427.35	33	2467.35
14	2429.35	34	2469.35
15	2431.35	35	2471.35
16	2433.35	36	2473.35
17	2435.35	37	2475.35
18	2437.35	38	2477.35
19	2439.35	39	2479.35
20	2441.35		



# **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%.

- Uncertainty of Conducted Emission, Uc = ±2.9 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.9 dB
- Uncertainty of Occupied Channel Bandwidth:  $Uc = \pm 2 \%$



# 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX_2403.35MHz_GFSK
2	Middle channel TX_2443.35MHz_GFSK
3	High channel TX_2479.35MHz_GFSK
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. The prototype has two 2.4G antennas, and the one with good signal is automatically selected by the software during normal operation

File View Tools Help		
Avnera User Interface Application Framework	SE E L'E E L'ANNE	
lavigation	RF Control	
Project 'default': 2 device(s)     Arbiter (AV5301)     Arbiter (AV5301)     General Arbiter (AV5302)     General Arbiter (AV5302)	Configure RF into various modes  Tx Settings Configure RF into various modes  Tx Settings  Antenna Select Antenna Select Antenna Select Antenna Select Par control Par control Par control	P 🛈 \$ 0
Greenal     G	0x08     Set Tx Power     Get Tx Power     PAIR COMMAND       NOTE:Vald range 6 0x00 to 0x1F.       Image: Image for the power of the powe	
🔄 Log × 🔣 Exceptions 🛛 🚑 Arb	iter 🔁 Client	
stdout Log		

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

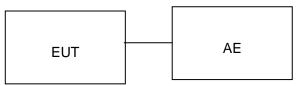
#### Software Setting



# **5. SYSTEM TEST CONFIGURATION**

# **5.1. CONFIGURATION OF EUT SYSTEM**

Radiated Emission Configure:



Conducted Emission Configure:

EUT	AE
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# 5.2 EQUIPMENT USED IN TESTED SYSTEM

lt	em	Equipment	Model No.	ID or Specification	Remark
	1	Wireless Studio Monitor	UNIT-4	2AKSOUNIT-4	EUT
	2	Adapter	YD-ZR2000600A-6A	Input: AC100-240V~50/60Hz, 2.0A Max; Output: DC20.0V, 6.0A,120.0W	Accessory

# **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Compliant



# 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 CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 03, 2023	Jun. 02, 2024
LISN	R&S	ESH2-Z5	100086	Jun. 03, 2023	Jun. 02, 2024
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

# TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Equipment Manufacturer		S/N	Cal. Date	Cal. Due
Test Receiver	Test Receiver R&S		10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Jun. 01, 2023	May 31, 2024
Signal Analyzer	Aglient	N9020A	MY52090123	Jun. 03, 2023	Jun. 02, 2024
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Horn Antenna	SCHWARZBEC	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2023	Apr. 22, 2024
Double-Ridged Waveguide Horn	ETS	3117	00154520	Jun. 03, 2023	Jun. 02, 2024
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 05, 2023	Jan. 04, 2025
Test software	FARA	EZ-EMC (Ver.RA-03A)	N/A	N/A	N/A
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A



# 7. RADIATED EMISSION

#### 7.1TEST LIMIT

# Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics
	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency	Distance	Field Strengths Limit			
(MHz)	Meters	<b>μ V/m</b>	dB(µV)/m		
0.009 ~ 0.490	300	2400/F(kHz)			
0.490 ~ 1.705	30	24000/F(kHz)			
1.705 ~ 30	30	30			
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
960 ~ 1000	3	500	54.0		
Above 1000 3 Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (A			k) 54.0 dB(µV)/m (Average)		
Remark: (1) Emission le	Remark: (1) Emission level dB $\mu$ V = 20 log Emission level $\mu$ V/m				
(2) The smalle	(2) The smaller limit shall apply at the cross point between two frequency bands.				

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



# 7.2. 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 emissions, 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 minimum resolution bandwidth of 1 MHz. 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.



The following table is the setting of spectrum analyzer and receiver.

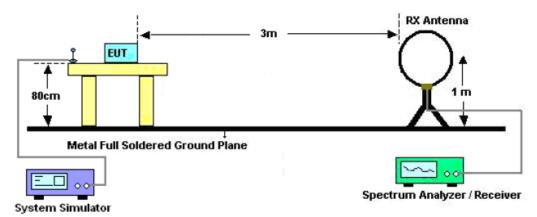
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
	1GHz~26.5GHz
Start ~Stop Frequency	RBW 2.4MHz/ VBW 8MHz for Peak,
	RBW 2.4MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

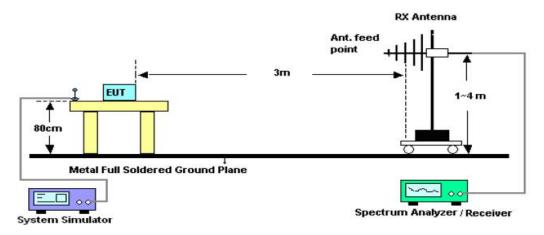


# 7.3. TEST SETUP

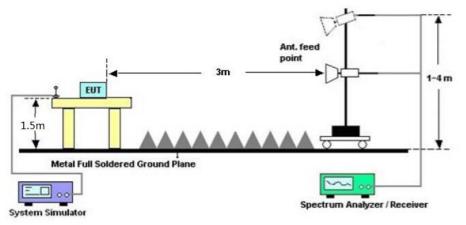
Radiated Emission Test-Setup Frequency Below 30MHz



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



# RADIATED EMISSION TEST SETUP ABOVE 1000MHz





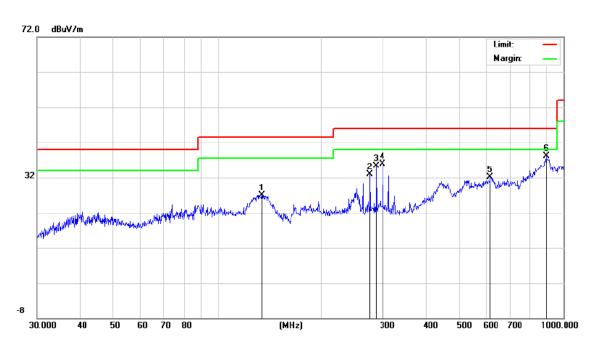
## 7.4. TEST RESULT

#### Antenna 0

#### **RADIATED EMISSION BELOW 30MHz**

No emission found between lowest internal used/generated frequencies to 30MHz.

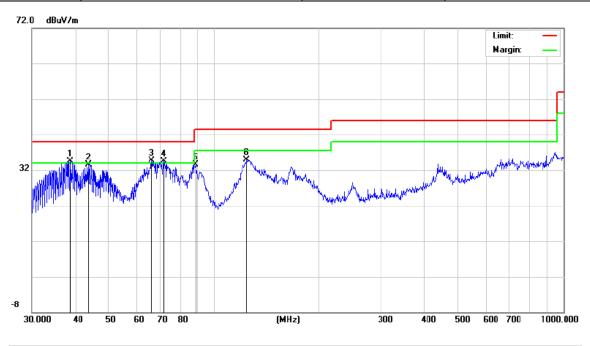
RADIATED EMISSION 30MHz- 1GHZ					
EUT	Wireless Studio Monitor	Model Name	UNIT-4		
Temperature	<b>22.7</b> ℃	Relative Humidity	60.1%		
Pressure	985kPa	Test Voltage	DC 14.6V		
Test Mode	Mode 1	Polarization	Horizontal		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	1	34.0882	11.30	15.55	26.85	43.50	-16.65	peak
2	2	76.1235	17.93	14.88	32.81	46.00	-13.19	peak
3	2	87.9904	19.68	15.54	35.22	46.00	-10.78	peak
4	3	00.3672	19.50	16.50	36.00	46.00	-10.00	peak
5	6	14.2142	6.87	25.17	32.04	46.00	-13.96	peak
6	* 8	93.8567	7.01	31.03	38.04	46.00	-7.96	peak



EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	<b>22.7</b> ℃	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	DC 14.6V
Test Mode	Mode 1	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	ļ	38.7518	17.97	16.49	34.46	40.00	-5.54	peak
2		43.6584	16.49	16.94	33.43	40.00	-6.57	peak
3	*	66.2661	17.60	17.04	34.64	40.00	-5.36	peak
4	İ	71.8319	17.59	16.98	34.57	40.00	-5.43	peak
5		88.3421	17.72	15.77	33.49	43.50	-10.01	peak
6		124.1329	17.07	17.80	34.87	43.50	-8.63	peak

# **RESULT: PASS**

Note:

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

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

The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

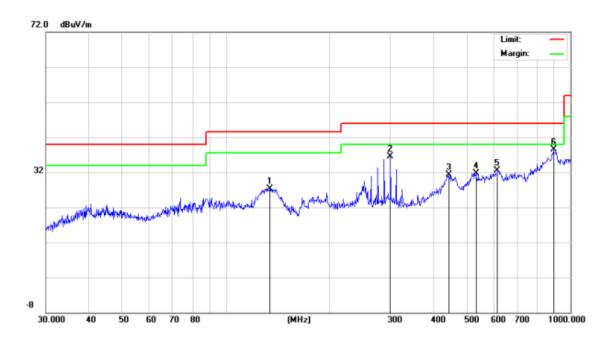


#### **RADIATED EMISSION BELOW 30MHz**

#### No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED	<b>EMISSION</b>	30MHz-	1GHZ
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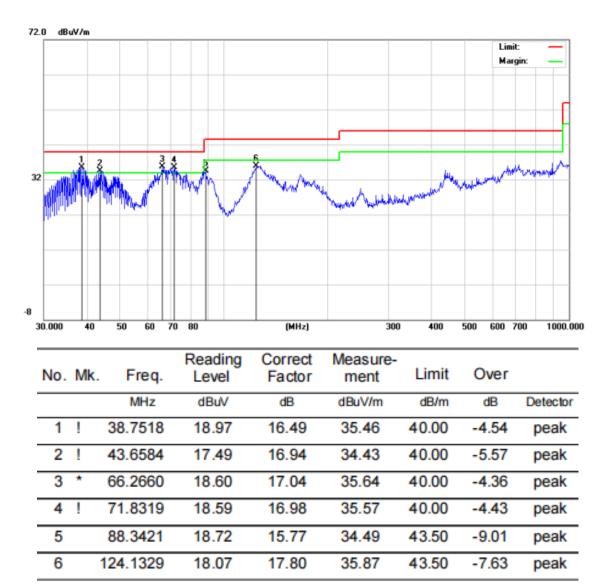
EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	<b>22.7</b> ℃	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	DC 14.6V
Test Mode	Mode 1	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	1	34.0882	11.80	15.55	27.35	43.50	-16.15	peak
2	3	300.3672	20.00	16.50	36.50	46.00	-9.50	peak
3	4	44.8514	6.44	24.93	31.37	46.00	-14.63	peak
4	5	531.9633	7.37	24.42	31.79	46.00	-14.21	peak
5	6	614.2142	7.37	25.17	32.54	46.00	-13.46	peak
6	* 8	393.8567	7.51	31.03	38.54	46.00	-7.46	peak



EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	<b>22.7</b> ℃	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	DC 14.6V
Test Mode	Mode 1	Polarization	Vertical



#### **RESULT: PASS**

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

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

3. The mode 1 is the worst case, and only the data of the worst case recorded in this test report.



EUT	Wireless Studio Monitor	Model Name	UNIT-4		
Temperature	22.7°C	Relative Humidity	60.1%		
Pressure	985kPa	Test Voltage	Normal Voltage		
Test Modulation	GFSK	Polarization	Horizontal		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
2403.35	48.42	49.05	97.47	114.00	-16.53	peak	
2403.35	44.29	49.05	93.34	94.00	-0.67	AVG	
2443.35	43.40	49.12	92.52	114.00	-21.48	peak	
2443.35	41.34	49.12	90.46	94.00	-3.54	AVG	
2479.35	44.33	49.25	93.58	114.00	-20.42	peak	
2479.35	41.70	49.25	90.95	94.00	-3.05	AVG	
Remark:							
Factor = Anter	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Modulation	GFSK	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type	
2403.35	44.37	49.05	95.69	114.00	-18.31	peak	
2403.35	29.51	49.05	93.14	94.00	-0.86	AVG	
2443.35	45.31	49.12	92.42	114.00	-21.58	peak	
2443.35	30.11	49.12	90.57	94.00	-3.43	AVG	
2479.35	40.78	49.25	91.75	114.00	-22.25	peak	
2479.35	30.48	49.25	89.12	94.00	-4.88	AVG	
Remark:							
Factor = Ante	actor = Antenna Factor + Cable Loss – Pre-amplifier.						



TIELD STRENGTH OF FORDAMENTAL					
EUT	Wireless Studio Monitor	Model Name	UNIT-4		
Temperature	22.7°C	Relative Humidity	60.1%		
Pressure	985kPa	Test Voltage	Normal Voltage		
Test Modulation	GFSK	Polarization	Horizontal		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
2403.35	47.75	49.05	96.80	114.00	-17.20	peak	
2403.35	44.14	49.05	93.19	94.00	-0.81	AVG	
2443.35	44.00	49.12	93.12	114.00	-20.88	peak	
2443.35	42.72	49.12	91.84	94.00	-2.16	AVG	
2479.35	45.35	49.25	94.60	114.00	-19.41	peak	
2479.35	42.80	49.25	92.05	94.00	-1.96	AVG	
Remark:							
Factor = Anter	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Modulation	GFSK	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
2403.35	44.37	49.05	95.25	114.00	-18.75	peak
2403.35	29.51	49.05	92.69	94.00	-1.31	AVG
2443.35	45.31	49.12	92.14	114.00	-21.86	peak
2443.35	30.11	49.12	91.35	94.00	-2.65	AVG
2479.35	40.78	49.25	90.99	114.00	-23.01	peak
2479.35	30.48	49.25	88.52	94.00	-5.48	AVG
emark:						



#### **RADIATED EMISSION ABOVE 1GHZ FOR BLE**

EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	<b>22.7</b> ℃	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	DC 14.6V
Test Mode	Mode 1	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4806.7	48.48	3.76	52.24	74.00	-21.76	peak
4806.7	41.52	3.76	45.28	54.00	-8.72	AVG
7210.05	42.36	8.17	50.53	74.00	-23.47	peak
7210.05	36.59	8.17	44.76	54.00	-9.24	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	<b>22.7</b> ℃	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	DC 14.6V
Test Mode	Mode 1	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4806.7	47.72	3.76	51.48	74.00	-22.52	peak
4806.7	40.45	3.76	44.21	54.00	-9.79	AVG
7210.05	42.45	8.17	50.62	74.00	-23.38	peak
7210.05	35.82	8.17	43.99	54.00	-10.01	AVG
Remark:						
actor = Anter	na Factor + Cable	e Loss – Pre	amplifier			



EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	<b>22.7</b> ℃	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	DC 14.6V
Test Mode	Mode 2	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4886.7	47.95	3.78	51.73	74.00	-22.27	peak
4886.7	40.82	3.78	44.60	54.00	-9.40	AVG
7330.05	43.15	8.23	51.38	74.00	-22.62	peak
7330.05	36.39	8.23	44.62	54.00	-9.38	AVG
Remark:						
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier			

Factor = Antenna Factor + Cable Loss – Pre-ampliner.

EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	<b>22.7</b> ℃	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	DC 14.6V
Test Mode	Mode 2	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4886.7	48.81	3.78	52.59	74.00	-21.41	peak
4886.7	41.54	3.78	45.32	54.00	-8.68	AVG
7330.05	44.26	8.23	52.49	74.00	-21.51	peak
7330.05	35.96	8.23	44.19	54.00	-9.81	AVG
Remark:					-	-
	nna Factor + Cabl	e Loss – Pre-	amplifier.			



EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	<b>22.7</b> ℃	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	DC 14.6V
Test Mode	Mode 3	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4958.7	47.62	3.81	51.43	74.00	-22.57	peak
4958.7	40.15	3.81	43.96	54.00	-10.04	AVG
7438.05	42.45	8.27	50.72	74.00	-23.28	peak
7438.05	32.33	8.27	40.60	54.00	-13.40	AVG
Remark:						
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			

EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	<b>22.7</b> ℃	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	DC 14.6V
Test Mode	Mode 3	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4958.7	47.95	3.81	51.76	74.00	-22.24	peak
4958.7	39.62	3.81	43.43	54.00	-10.57	AVG
7438.05	44.32	8.27	52.59	74.00	-21.41	peak
7438.05	33.62	8.27	41.89	54.00	-12.11	AVG
Remark:						
	nna Factor + Cab	e Loss – Pre-	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.



# **RADIATED EMISSION ABOVE 1GHZ**

EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4806.7	47.65	3.76	51.41	74.00	-22.59	peak
4806.7	42.15	3.76	45.91	54.00	-8.09	AVG
7210.05	42.19	8.17	50.36	74.00	-23.64	peak
7210.05	37.68	8.17	45.85	54.00	-8.15	AVG
Remark:						
actor = Antenna Factor + Cable Loss – Pre-amplifier						

Factor = Antenna Factor + Cable Loss – Pre-ampliner.

EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	23.0° C	Relative Humidity	51.8%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4806.7	47.94	3.76	51.70	74.00	-22.30	peak	
4806.7	41.67	3.76	45.43	54.00	-8.57	AVG	
7210.05	42.88	8.17	51.05	74.00	-22.95	peak	
7210.05	36.46	8.17	44.63	54.00	-9.37	AVG	
Remark:	Remark:						
Factor = Anter	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4886.7	48.33	3.78	52.11	74.00	-21.89	peak
4886.7	41.80	3.78	45.58	54.00	-8.42	AVG
7330.05	42.69	8.23	50.92	74.00	-23.08	peak
7330.05	37.81	8.23	46.04	54.00	-7.96	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier						

Facior = Ariterina Facior + Capie LUSS - Fie-amplinel.

EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4886.7	48.51	3.78	52.29	74.00	-21.71	peak
4886.7	52.24	3.78	56.02	54.00	2.02	AVG
7330.05	43.69	8.23	51.92	74.00	-22.08	peak
7330.05	34.23	8.23	42.46	54.00	-11.54	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4958.7	47.99	3.81	51.80	74.00	-22.20	peak
4958.7	41.37	3.81	45.18	54.00	-8.82	AVG
7438.05	42.62	8.27	50.89	74.00	-23.11	peak
7438.05	33.66	8.27	41.93	54.00	-12.07	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

re-ampliner

EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Vertical

(MHz) 4958.7	(dBµV)	(dB)	(dBuV/m)	(dDu)//m)	(-ID)	Value Type
1958 7				(dBµV/m)	(dB)	
4330.7	48.98	3.81	52.79	74.00	-21.21	peak
4958.7	36.68	3.81	40.49	54.00	-13.51	AVG
7438.05	42.65	8.27	50.92	74.00	-23.08	peak
7438.05	32.72	8.27	40.99	54.00	-13.01	AVG

Factor = Antenna Factor + Cable Loss – Pre-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.



# 8. BAND EDGE EMISSION

## 8.1TEST LIMIT

	Limit of the Field Strength (dBµV/m)		
Frequency Band	Peak	Average	
f≪2390MHz	74	54	
f≥2483.5MHz	74	54	

# **8.2. MEASUREMENT PROCEDURE**

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

3. Other procedures refer to clause 7.2.

# RADIATED EMISSION TEST SETUP

# 8.3 TEST SETUP

#### **8.4 TEST RESULT**

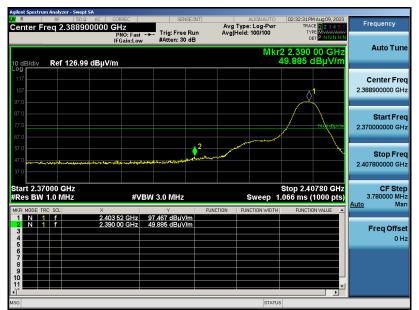
#### Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.



EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal



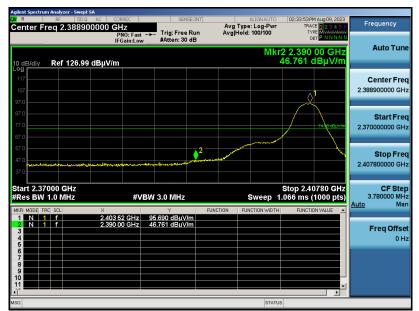
# Peak Value

#### Average Value





EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical

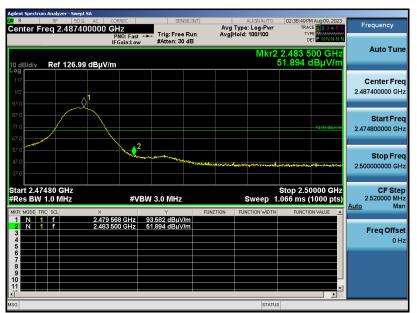


Average Value





EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Horizontal

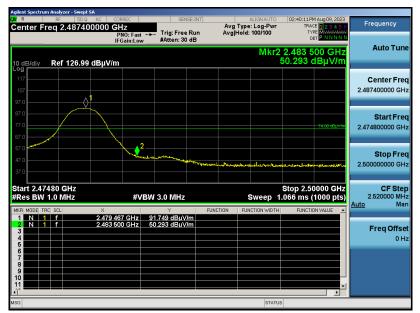


#### Average Value

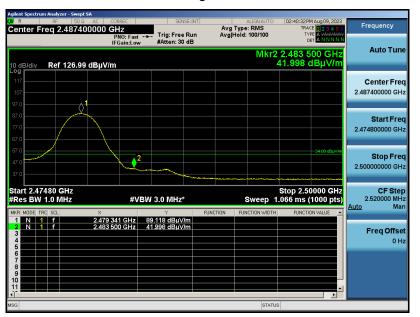




EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Vertical

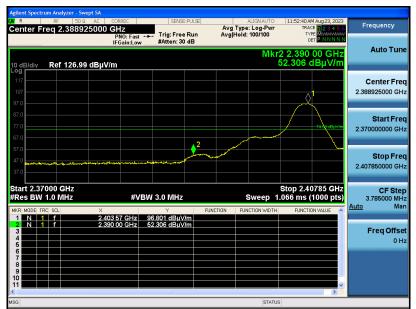


Average Value





EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal



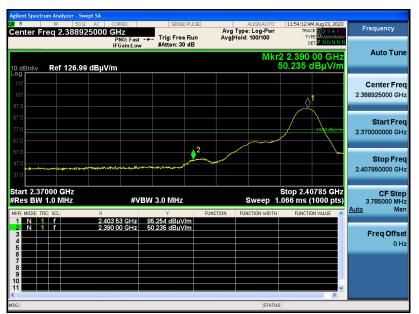
# Peak Value

#### Average Value





EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical

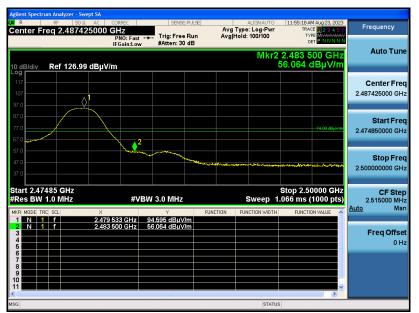


#### Average Value

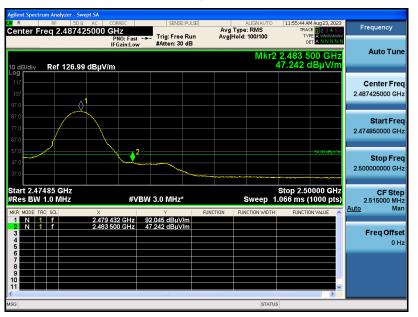


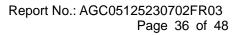


EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Horizontal



#### Average Value







EUT	Wireless Studio Monitor	Model Name	UNIT-4
Temperature	22.7°C	Relative Humidity	60.1%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Vertical



Average Value



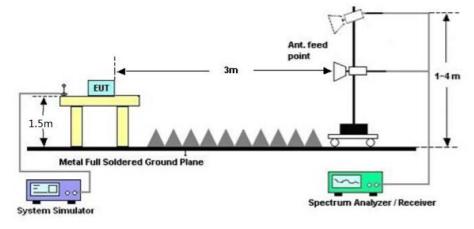


# 9. 20DB BANDWIDTH

### 9.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz, VBW≥1×RBW.
- 3. Set SPA Trace 1 Max hold, then View.

#### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





PASS

PASS PASS

#### 9.3. MEASUREMENT RESULTS

2403.35

2443.35

2479.35

TEST ITEM	20DB BANDWIDTH	20DB BANDWIDTH					
TEST MODULATION	GFSK	GFSK					
Antenna 0	·						
Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria				

1.944

1.954

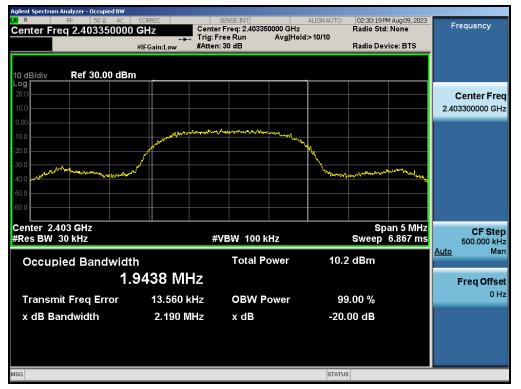
1.939

2.190

2.223

2.181

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

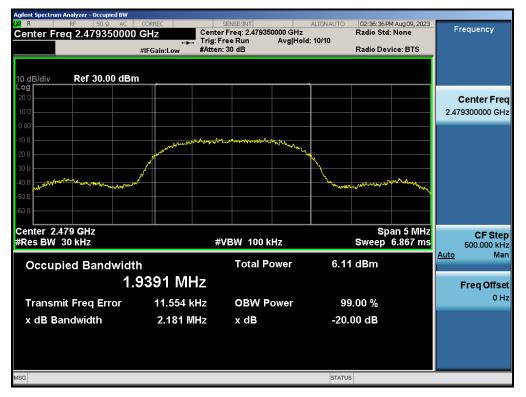






# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



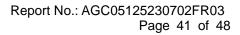


#### Antenna 1

Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria
2403.35	2.177	1.926	PASS
2443.35	2.158	1.923	PASS
2479.35	2.153	1.923	PASS

#### 11:44:54 AM Aug 23, 2023 Radio Std: None Center Freq: 2.403350000 GHz Trig: Free Run Avg|Hol #Atten: 20 dB ALIGN AUTO Frequency Center Freq 2.403350000 GHz Avg|Hold>10/10 IFGain:Low Radio Device: BTS Ref 10.00 dBm l0 dB/div **Center Freq** 2.403350000 GHz Center 2.403 GHz #Res BW 30 kHz Span 5 MHz Sweep 6.867 ms CF Step 500.000 kHz #VBW 100 kHz Man <u>Auto</u> Total Power 10.4 dBm Occupied Bandwidth 1.9258 MHz **Freq Offset** 0 Hz -34.317 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 2.177 MHz x dB -20.00 dB STATUS

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL







## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





# **10. FCC LINE CONDUCTED EMISSION TEST**

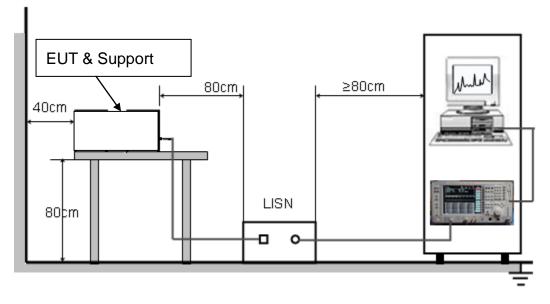
# **10.1. LIMITS OF LINE CONDUCTED EMISSION TEST**

Frequency	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

# **10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST**





# **10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST**

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

#### 10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

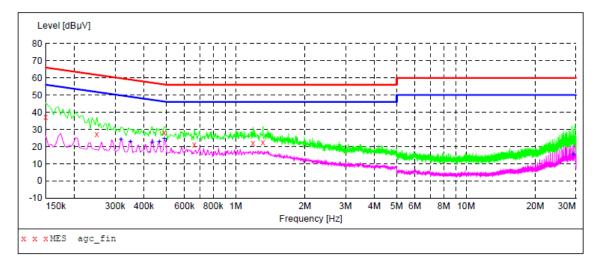
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.



# **10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST**

#### Antenna 0

Line Conducted Emission Test Line 1-L



# MEASUREMENT RESULT: "agc fin"

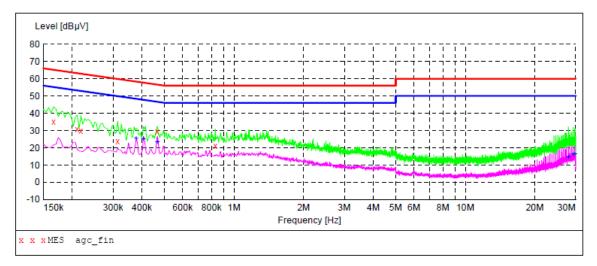
2023/7/28 20: Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000 0.250000 0.490000 0.662000 1.190000 1.314000	37.10 27.10 28.20 21.10 22.10 22.20	6.1 6.1 6.2 6.2 6.2	66 62 56 56 56	28.9 34.7 28.0 34.9 33.9 33.8	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1

# MEASUREMENT RESULT: "agc fin2"

2023/7/28	20:09						
Frequen M	cy Hz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.3180 0.3500 0.4340 0.4660 0.4900 29.2420	00 00 00 00	24.20 22.80 22.30 22.70 24.50 15.40	6.1 6.1 6.1 6.1 8.3	50 49 47 47 46 50	21.7	AV	L1 L1 L1 L1 L1 L1



# Line Conducted Emission Test Line 2-N



# MEASUREMENT RESULT: "agc fin"

2023/7/28 20:07

Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line
0.166000	34.90	6.1	65	30.3	QP	N
0.210000	30.50	6.1	63	32.7	QP	Ν
0.218000	30.00	6.1	63	32.9	QP	Ν
0.314000	23.60	6.1	60	36.3	QP	Ν
0.466000	29.30	6.1	57	27.3	QP	N
0.830000	21.30	6.2	56	34.7	QP	Ν

# MEASUREMENT RESULT: "agc fin2"

)7					
Level	Transd	Limit	Margin	Detector	Line
dBµV	dB	dBµV	dB		
25.30	6.1	48	23.0	AV	N
25.20	6.1	48	22.5	AV	N
23.50	6.1	47	23.1	AV	Ν
14.40	8.2	50	35.6	AV	Ν
16.50	8.3	50	33.5	AV	Ν
16.30	8.3	50	33.7	AV	N
	Level dBµV 25.30 25.20 23.50 14.40 16.50	Level Transd dBµV dB 25.30 6.1 25.20 6.1 23.50 6.1 14.40 8.2 16.50 8.3	Level Transd Limit dBµV dB dBµV 25.30 6.1 48 25.20 6.1 48 23.50 6.1 47 14.40 8.2 50 16.50 8.3 50	Level dBμVTransd dBLimit dBμVMargin dB25.306.14823.025.206.14822.523.506.14723.114.408.25035.616.508.35033.5	Level         Transd         Limit         Margin         Detector           dBμV         dB         dBμV         dB         dB         dB           25.30         6.1         48         23.0         AV           25.20         6.1         48         22.5         AV           23.50         6.1         47         23.1         AV           14.40         8.2         50         35.6         AV           16.50         8.3         50         33.5         AV

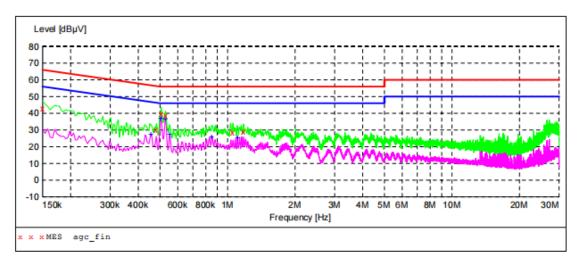
#### **RESULT: PASS**

Note: The mode 1 is the worst case, and only the data of the worst case recorded in this test report.



## Antenna 1

Line Conducted Emission Test Line 1-L



# MEASUREMENT RESULT: "agc\_fin"

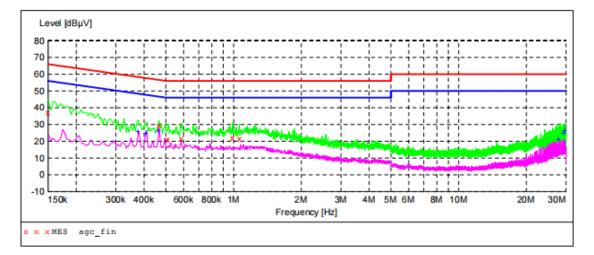
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000 0.482000 0.506000 0.530000 1.058000 1.178000	42.90 30.30 39.60 38.70 28.50 29.00	6.1 6.2 6.2 6.2 6.2	66 56 56 56 56	23.1 26.0 16.4 17.3 27.5 27.0	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1

#### MEASUREMENT RESULT: "agc fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.458000	27.50	6.1	47	19.2	AV	L1
0.506000	37.20	6.2	46	8.8	AV	L1
0.530000	36.50	6.2	46	9.5	AV	L1
0.554000	27.40	6.2	46	18.6	AV	L1
0.854000	25.70	6.2	46	20.3	AV	L1
1.106000	25.40	6.2	46	20.6	AV	L1



# Line Conducted Emission Test Line 2-N



#### MEASUREMENT RESULT: "agc fin"

2023/7/28 20:01 Frequency Level Transd Limit Margin Detector Line MHz dBµV dB dBµV dB 0.150000 36.80 6.1 66 29.2 QP Ν 0.466000 29.40 6.1 57 27.2 Ν QP 21.00 0.514000 6.2 56 35.0 QP Ν 0.590000 21.40 6.2 56 34.6 QP Ν 0.990000 22.10 6.2 56 33.9 QP Ν 21.60 56 34.4 1.062000 6.2 Ν QP

#### MEASUREMENT RESULT: "agc fin2"

2023/7/28	20:01					
Frequenc	y Level	Transd	Limit	Margin	Detector	Line
MH	z dBµV	dB	dBµV	dB		
0.37800	0 25.80	6.1	48	22.5	AV	N
0.41000	0 24.80	6.1	48	22.8	AV	N
0.46600	0 26.40	6.1	47	20.2	AV	N
27.87800	0 21.00	8.2	50	29.0	AV	N
29.27000	0 25.00	8.3	50	25.0	AV	N
29.73800	0 26.10	8.3	50	23.9	AV	N

#### **RESULT: PASS**

Note: The mode 1 is the worst case, and only the data of the worst case recorded in this test report.



# **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC05125230702AP02

# APPENDIX B: PHOTOGRAPHS OF THE EUT

Refer to the Report No.: AGC05125230702AP03

# ----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.