



Report No.: File reference No.:	TW2107388-02E 2021-09-06
Applicant:	GLORY STAR TECHNICS (SHENZHEN) CO., LTD.
Product:	Commercial Kiosk Tablet
Model No.:	EMT431
Trademark:	Glory Star
Test Standards:	FCC Part 15.249
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 &FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility
Approved By	

Jack Chung

Jack Chung

Manager

Dated: September 06, 2021

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



# **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

# CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

# FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

# Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

# A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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# 1.0 General Details

1.1 Test Lab Details

 Name:
 SHENZHEN TIMEWAY TESTING LABORATORIES.

 Address:
 Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

 Village, Nanshan District, Shenzhen, China

 Telephone:
 (755) 83448688

Fax: (755) 83442996

Site on File with the Federal Communications Commission - United Sates

Registration Number: 744189

For 3m Anechoic Chamber

# 1.2 Applicant Details

Applicant:	GLORY STAR TECHNICS (SHENZHEN) CO., LTD.
Address:	Bldg., 9, 4/F., ZongYuntai Technology Industrial Park, Songbai Road, Shiyan Street, Boan,
	Shenzhen, China
Telephone:	(755)-26001808-305
Fax:	(755)-26002933

#### 1.3 Description of EUT

Commercial Kiosk Tablet
GLORY STAR TECHNICS (SHENZHEN) CO., LTD.
Bldg., 9, 4/F., ZongYuntai Technology Industrial Park, Songbai Road, Shiyan
Street, Boan, Shenzhen, China
Glory Star
EMT431
N/A
EMT431
RK3399 V1.x
20210203.143658
GS431210300001
Input: 100-240V, ~50/60Hz, 0.45A, 100W (max)
GFSK, Pi/4D-QPSK, 8DPSK (Bluetooth)
2402-2480MHz
1MHz
79
Dipole antenna with gain 2.20dBi Max (Declared by the applicant)

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- 1.4 Submitted Sample: 1 pc
- 1.5 Test Duration 2021-07-29 to 2021-09-06
- 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

# 2.2 Automation Test Software

For Conducted Emission Test

Name	Version	
EZ-EMC	Ver.EMC-CON 3A1.1	

#### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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The EUT has been tested according to the following specifications:

## **3.0** Technical Details

## 3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4 :2014 and ANSI C63.10 :2013

#### 4.0 EUT Modification

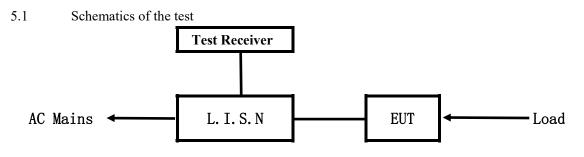
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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# 5.0 Power Line Conducted Emission Test



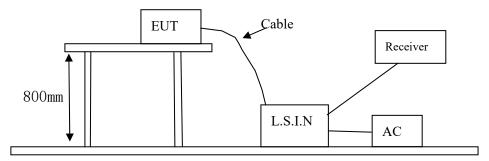
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. 79 channels are provided to the EUT

Device	Manufacturer	Model	FCC ID
Commercial Kiosk	GLORY STAR TECHNICS	EMT431	2AACS-EMT431
Tablet	(SHENZHEN) CO., LTD.	E1VI 1431	ZAAUS-EM1431

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#### B. Internal Device

2.				
	Device	Manufacturer	Model	FCC ID/DOC
	N/A			

#### C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

#### 5.4 EUT Operating Condition

- Operating condition is according to ANSI C63.10-2013
- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

#### 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (d	lΒ μ V)
(MHz)	Quasi-peak Level	Average Level
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*
$0.50~\sim~5.00$	56.0	46.0
$5.00~\sim~30.00$	60.0	50.0

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

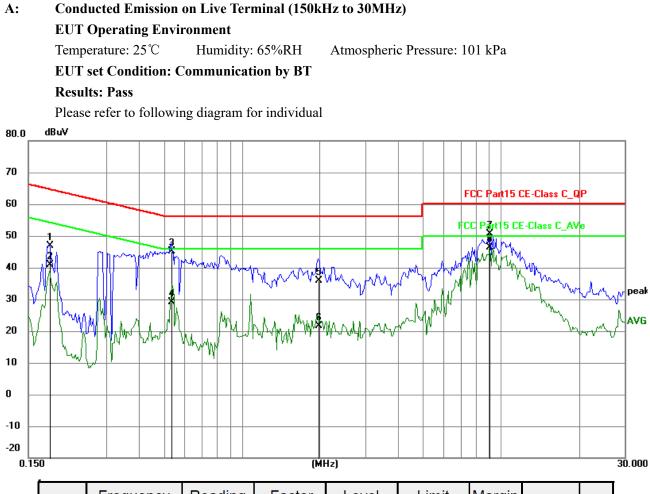
#### 5.6 Test Results:

Pass

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1812	37.11	9.76	46.87	64.43	-17.56	QP	Ρ
2	0.1812	31.19	9.76	40.95	<mark>54.43</mark>	-13.48	AVG	Ρ
3	0.5322	35.47	9.77	45.24	56.00	-10.76	QP	Ρ
4	0.5322	19.34	9.77	29.11	46.00	-1 <mark>6</mark> .89	AVG	Ρ
5	1.9713	26.13	9.80	35.93	56.00	-20.07	QP	Ρ
6	1.9713	11.86	9.80	21.66	46.00	-24.34	AVG	Ρ
7	9.0450	40.57	10.11	50.68	60.00	-9.32	QP	Ρ
8	9.0450	36.21	10.11	46.32	50.00	-3.68	AVG	Ρ

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Ρ

Ρ

P P

Ρ

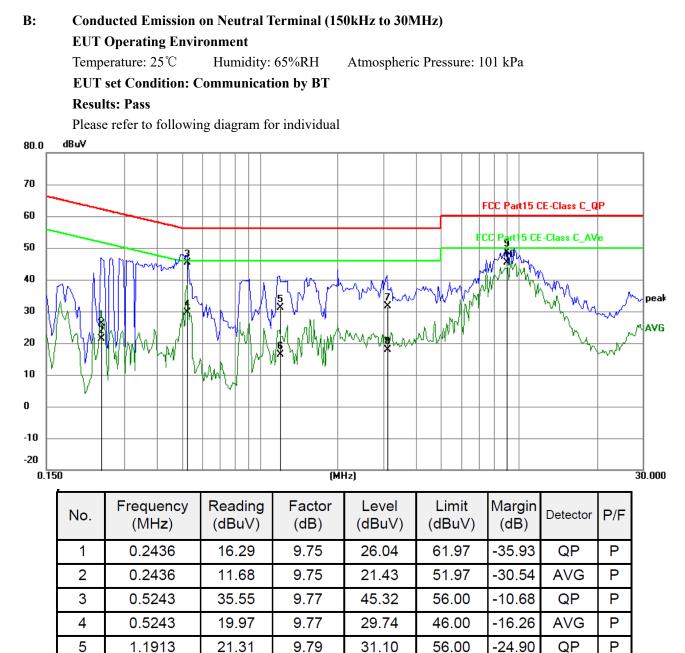
AVG

QP

AVG

QP

AVG



The report refers only to the sample tested and does not apply to the bulk.

6.54

21.66

7.95

38.54

35.21

9.79

9.85

9.85

10.11

10.11

16.33

31.51

17.80

48.65

45.32

46.00

56.00

46.00

60.00

50.00

-29.67

-24.49

-28.20

-11.35

-4.68

1.1913

3.1013

3.1013

8.9786

8.9786

6

7

8

9

10

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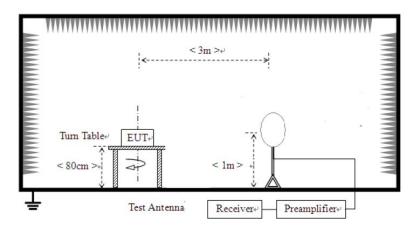


#### 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

# Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

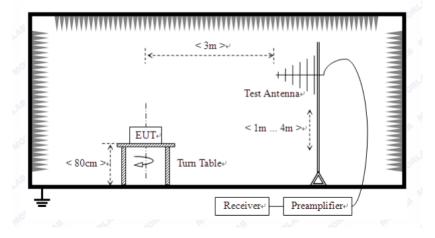


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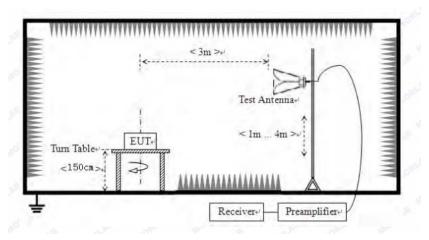
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.

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# 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

# A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field St	trength of Harmo	nics (3m)
(MHz)	mV/m	dBu	V/m	uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note: 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

# B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage  $(dBuV) = 20 \log RF$  Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

5. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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# 6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

#### Horizontal

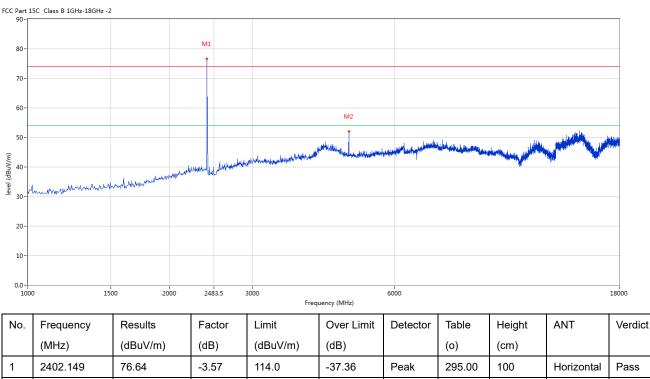
2

4802.799

52.05

3.12

74.0



-21.95

Peak

198.00

100

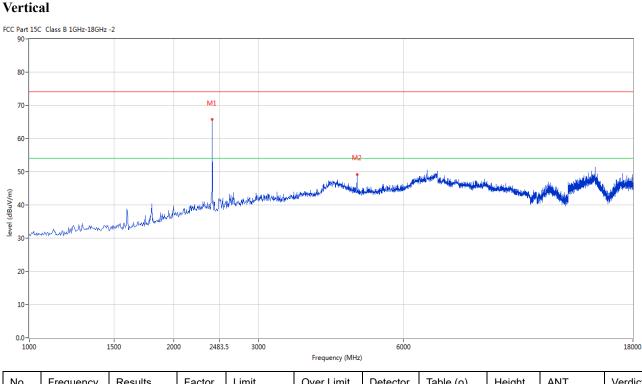
Horizontal

Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.149	65.72	-3.57	114.0	-48.28	Peak	178.00	100	Vertical	Pass
2	4802.799	49.19	3.12	74.0	-24.81	Peak	174.00	100	Vertical	Pass

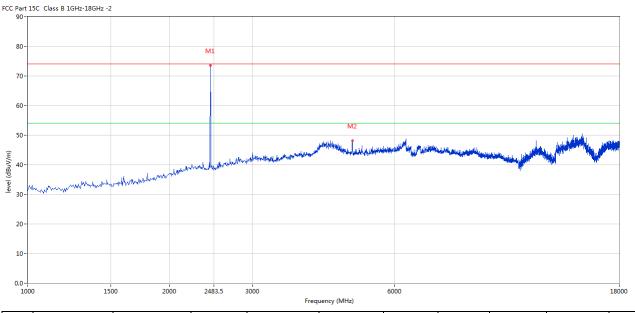
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# Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal

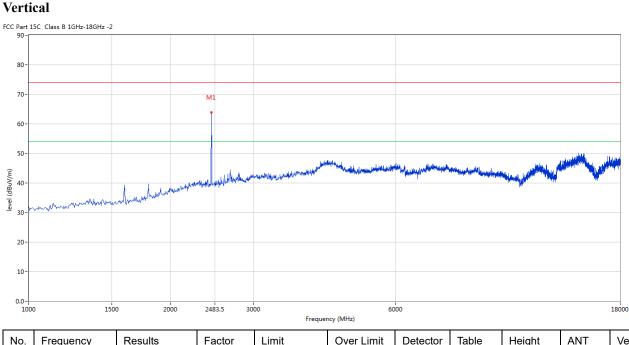


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	73.52	-3.57	114.0	-40.48	Peak	283.00	100	Horizontal	Pass
2	4883.529	48.10	3.20	74.0	-25.90	Peak	74.00	100	Horizontal	Pass

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١	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	1	2440.390	63.96	-3.57	114.0	-50.04	Peak	338.00	100	Vertical	Pass

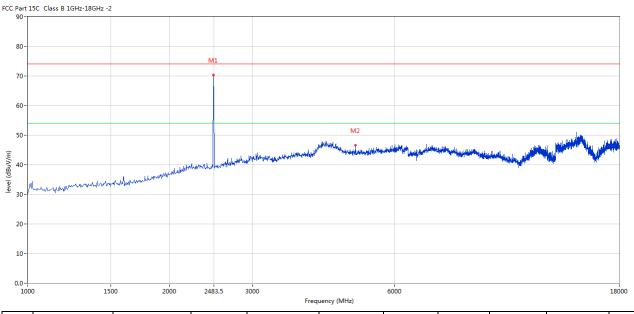
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# Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal

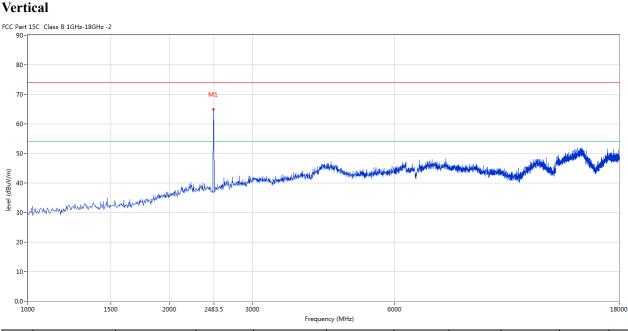


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2478.630	70.28	-3.57	114.0	-43.72	Peak	280.00	100	Horizontal	Pass
2	4960.010	46.61	3.36	74.0	-27.39	Peak	82.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2478.630	65.88	-3.57	114.0	-48.12	Peak	350.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(3) Margin=Emission-Limits

- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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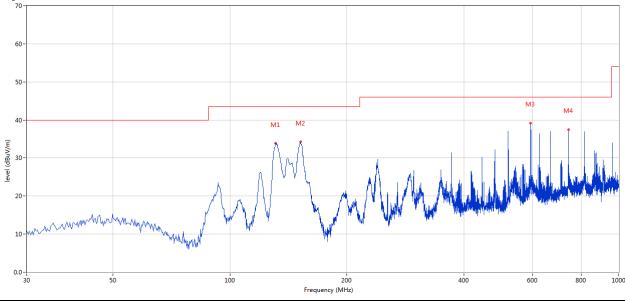
# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

# Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	131.097	33.82	-16.83	43.5	-9.68	Peak	305.00	100	Horizontal	Pass
2	151.947	34.21	-16.93	43.5	-9.29	Peak	309.00	100	Horizontal	Pass
3	593.914	39.14	-5.25	46.0	-6.86	Peak	315.00	100	Horizontal	Pass
4	742.529	37.39	-3.47	46.0	-8.61	Peak	334.00	100	Horizontal	Pass

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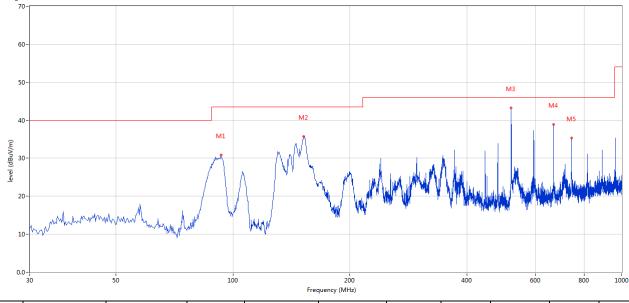
## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	93.277	30.84	-14.43	43.5	-12.66	Peak	28.00	100	Vertical	Pass
2	151.947	35.78	-16.93	43.5	-7.72	Peak	0.00	100	Vertical	Pass
3	519.728	43.27	-6.76	46.0	-2.73	Peak	31.00	100	Vertical	Pass
4	668.343	38.85	-4.46	46.0	-7.15	Peak	8.00	100	Vertical	Pass
5	742.529	35.28	-3.47	46.0	-10.72	Peak	0.00	100	Vertical	Pass

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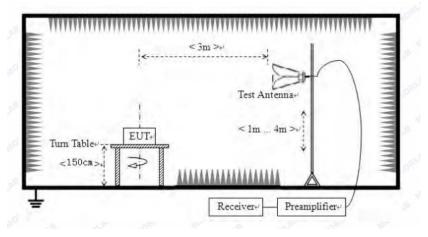


# 7. Band Edge

# 7.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

# 7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items - Photos of Testing

#### 7.3 Configuration of The EUT

Same as section 5.3 of this report

# 7.4 EUT Operating Condition

Same as section 5.4 of this report.

# 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

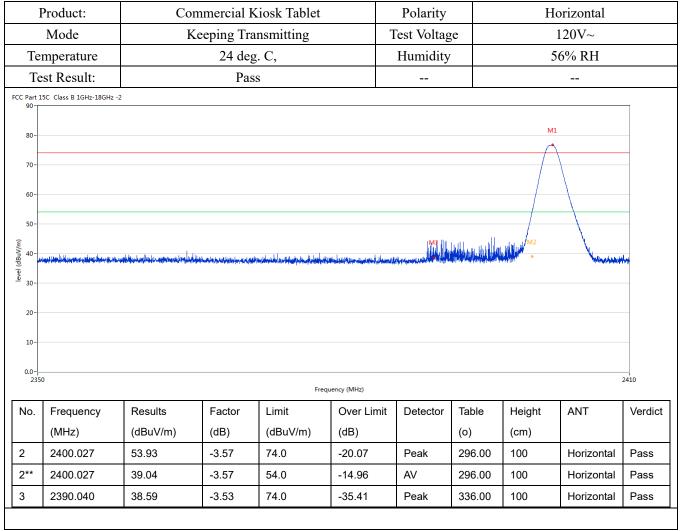
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## 7.6 Test Result



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	Product:	Co	mmercial K	Kiosk Tablet		Detector		Ve	rtical	
	Mode	K	Leeping Tra	insmitting	Te	est Voltage		12	20V~	
Te	emperature		24 deg	g. C,	I	Humidity		569	% RH	
Τe	est Result:		Pas	s						
C Part 1 90-r	15C Class B 1GHz-18GHz	-2								
80-										
70-								N	11	
60-									<u>}</u>	
									<u> </u>	
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40- 30- 20- 10-	and the second	Results	Factor	an selected an start of selection and selections	equency (MHz)	Detector	Table	Height	ANT	2410
40- 30- 20- 10- 235	50			Fre		Detector	Table (o)	Height (cm)		2410
40- 30- 20- 10- 235	50 Frequency	Results	Factor	Fre	Over Limit	Detector Peak		-		

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adopt any other remedies which may be appropriate.



Product:		Commercial Kiosk Tablet				Polarity		Horizontal			
	Mode	ŀ	Keeping Transmitting				ge	e 120V~			
Temperature Test Result:			24 deg. C, Pass				7	56% RH			
C Part 1 90	15C Class B 1GHz-18GHz	-2									
90-											
80-											
70-			$\sim$								
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40- 30- 20- 10-		Results	Factor	24335		Detector	Table	Height	ANT	2500	
40- 30- 20- 10- 0.0- 247	70		Factor (dB)	2483.5	Frequency (MHz)					2500	
40- 30- 20- 10- 0.0- 247	70 Frequency	Results		2483.5 Limit	Frequency (MHz)		Table	Height			

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Product:		Commercial Kiosk Tab			I	Detector		Vertical		
Mode Temperature Test Result:		K	eeping Tra	insmitting	Te	st Voltage	120V~			
			24 deg	g. C,	H	Iumidity	56% RH			
			Pass							
CC Part 1 90-r	15C Class B 1GHz-18GHz	-2								
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30 20 10 0.0 247	1	Recuts	Easter	2483.5 Fra	equency (MHz)				1	2500
20- 10-	Frequency	Results	Factor	2483.5 Fre Limit	equency (MHz)	Detector	Table	Height	ANT	
30 20 10 0.0 247	1	Results (dBuV/m) 33.20	Factor (dB) -3.57	2483.5 Fra	equency (MHz)				1	2500

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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#### 8.0 Antenna Requirement

#### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a Dipole antenna with gain 2.20dBi Max. It fulfills the requirement of this section. Test Result: Pass

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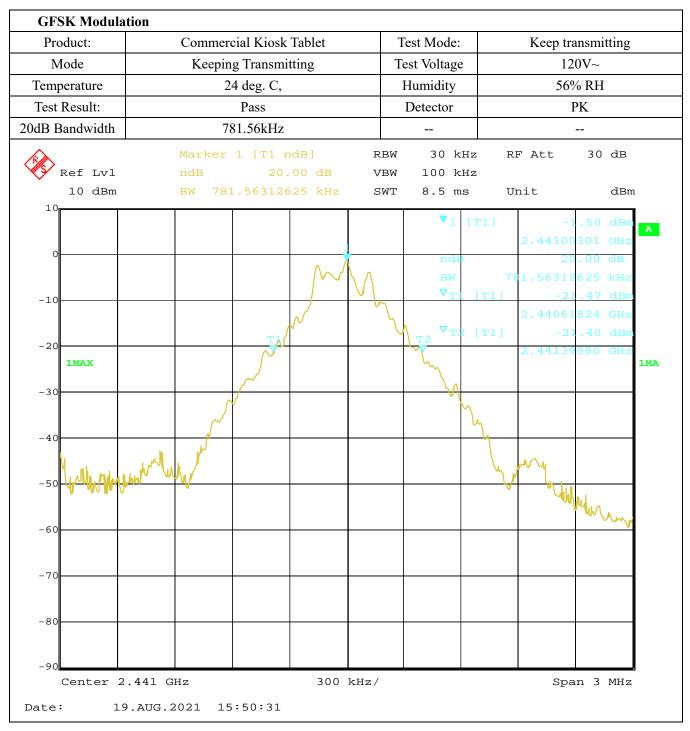


FSK Modulation											
Product:	ercial Kios	iosk Tablet		Test Mode:			Keep transmitting				
Mode	Keeping Transmitting				Test Voltage		120V~				
Temperature		24 deg. C,				Iumidity	56% RH				
Test Result:		Pass				Detector		РК			
0dB Bandwidth	781.56kHz										
Ref Lvl 10 dBm	ndB 20.00 dB			VI	BW 30 kH BW 100 kH WT 8.5 ms		Hz				
10 0.8	BW 70	1.303120			V I		5		UBII	1	
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-90											
Center 2.402	2 GHz		300	kHz/				Spa	an 3 MHz		

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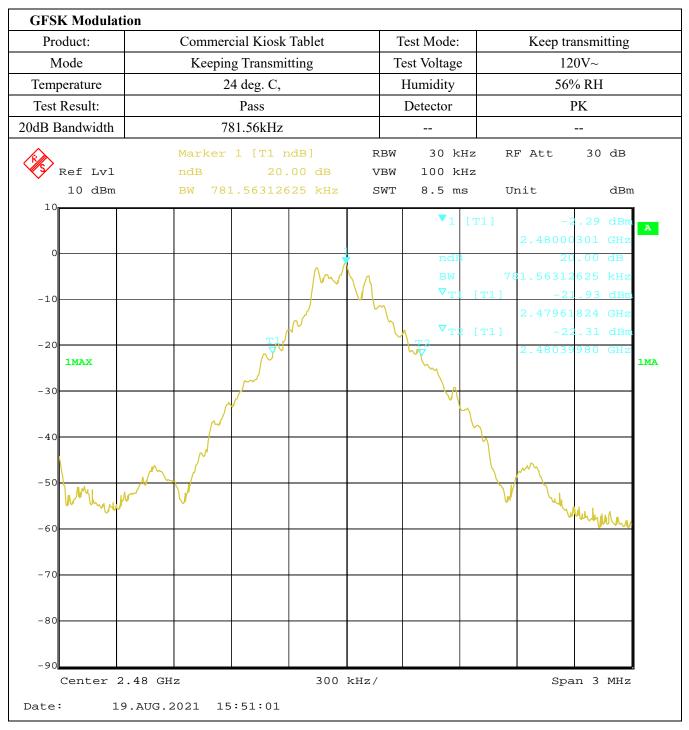




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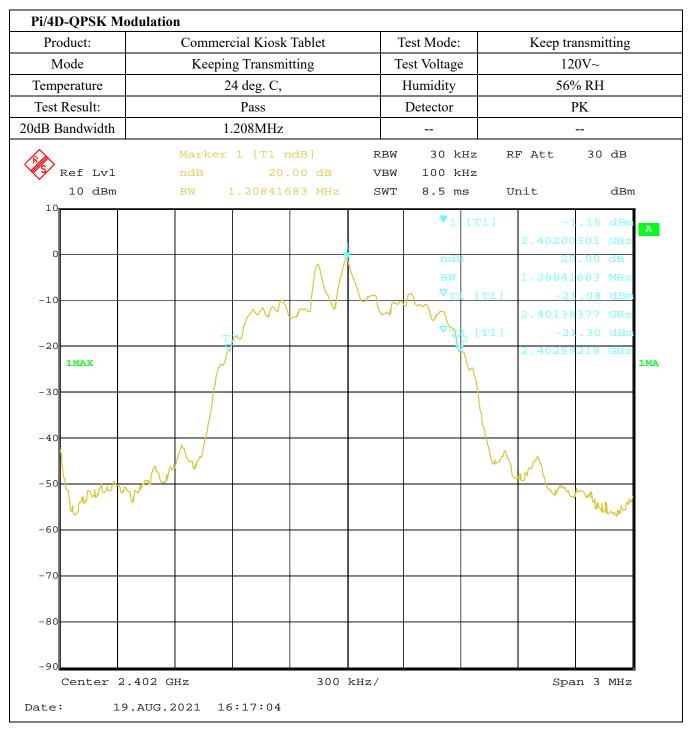




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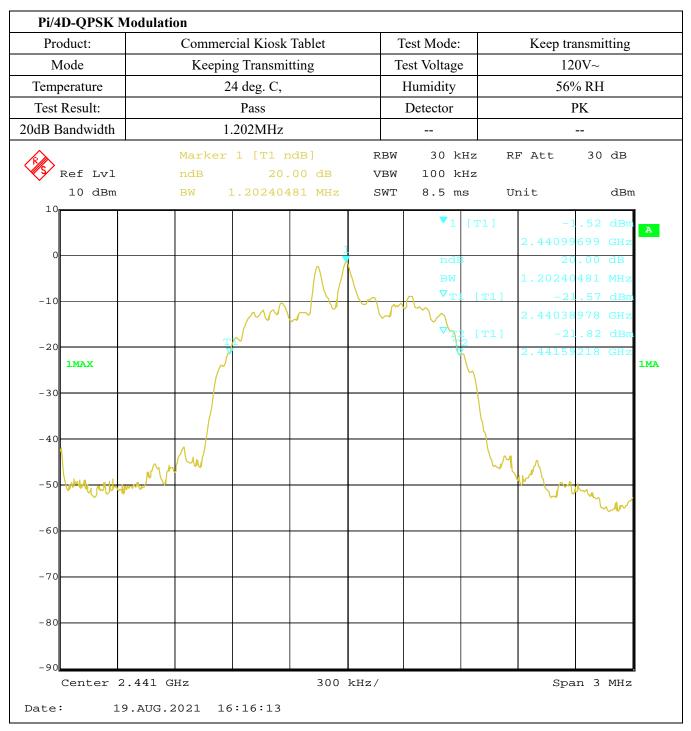




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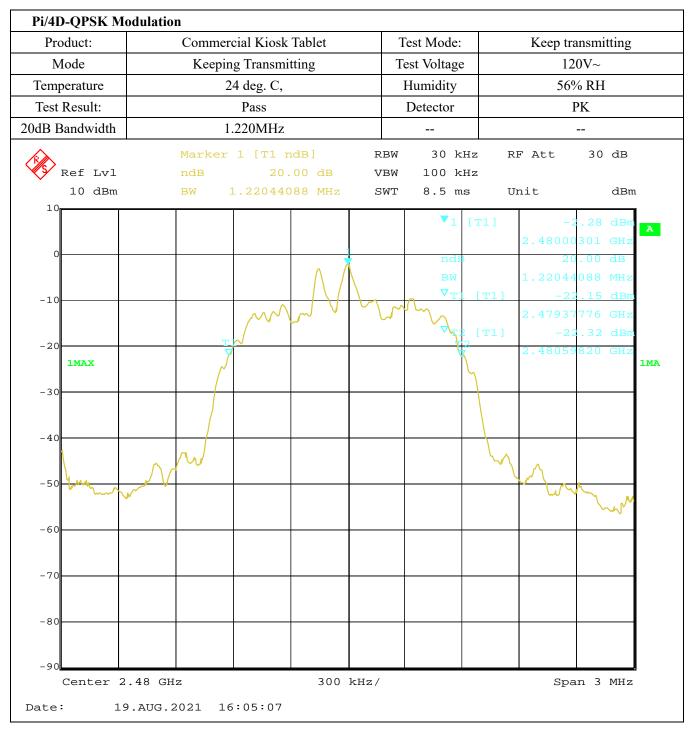




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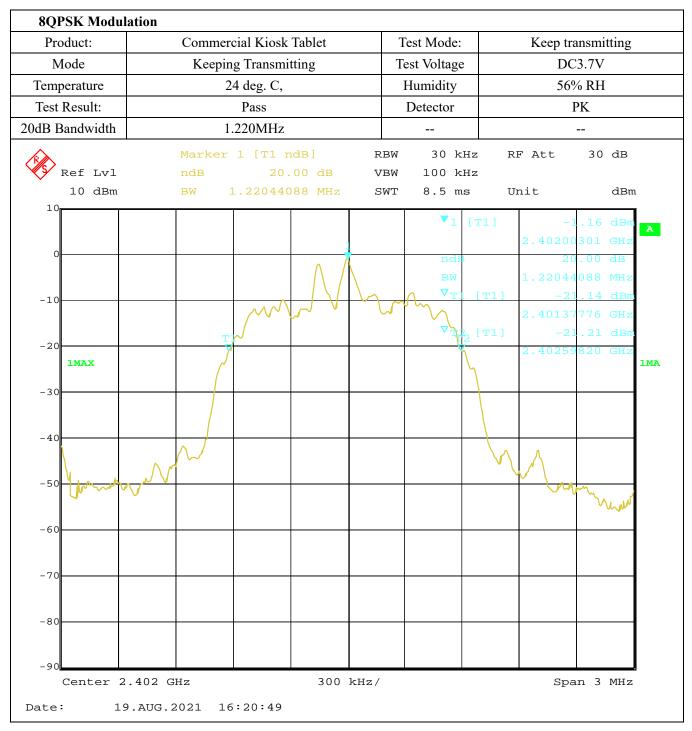




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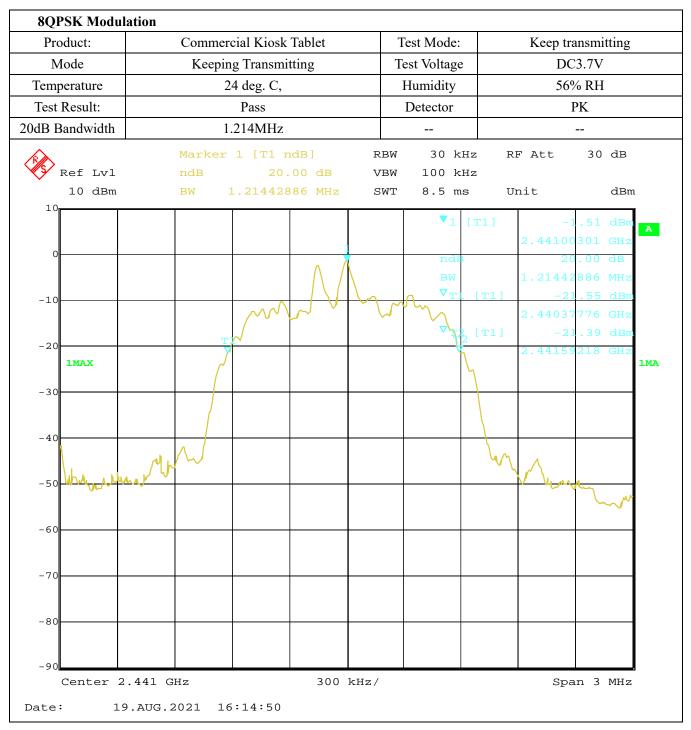




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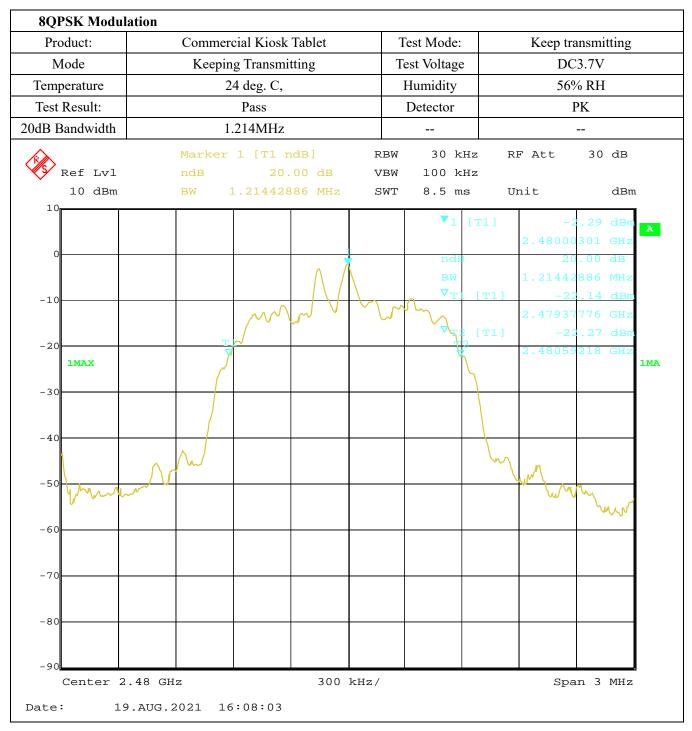




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# 10.0 FCC ID Label

# FCC ID: 2AACS-EMT431

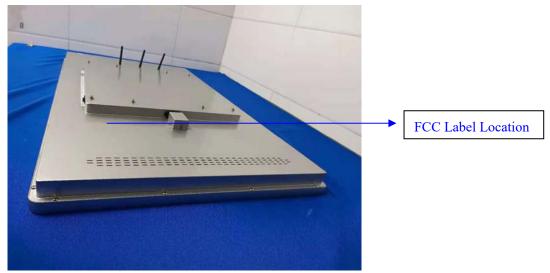
This device complies with Part 15 of the FCC Rules. Operation is subject to the

following two conditions: (1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

# Mark Location:



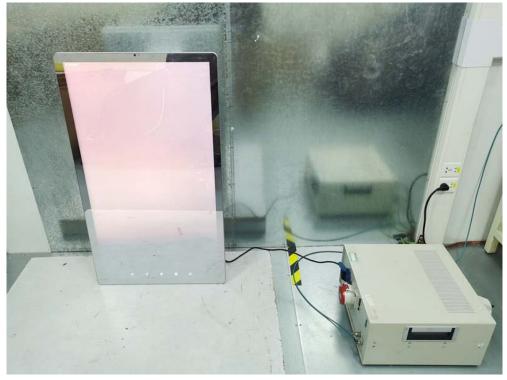
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#### 11.0 Photo of testing

11.1 Conducted test View--

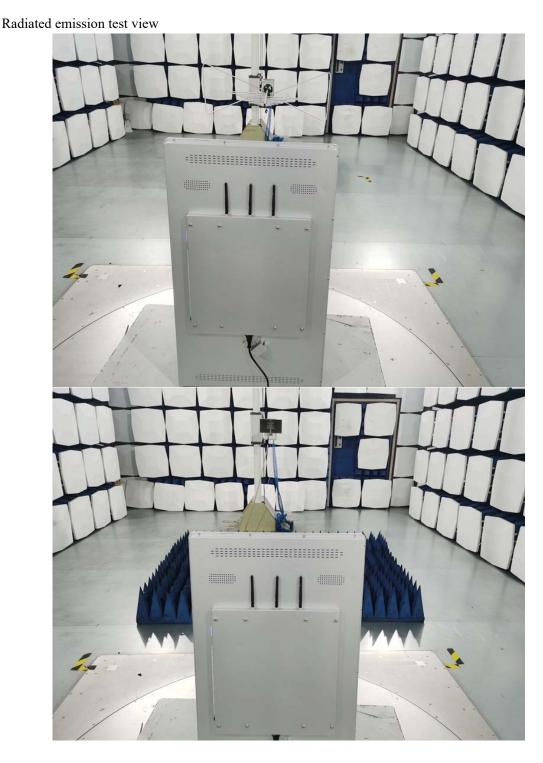


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# Photographs – EUT

Please refer test report TW2107388-01E

#### --End of the report--

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