

Date : 2018-09-13 Page 1 of 27 No. : HM18060018

**Applicant:** Gatekeeper Systems (HK) Ltd.

36/F, Tower 2, Times Square, 1 Matheson Street, Causeway Bay,

Hong Kong

**Manufacturer:** Gatekeeper Systems (HK) Ltd.

36/F, Tower 2, Times Square, 1 Matheson Street, Causeway Bay,

Hong Kong

**Description of Sample(s):** Product: Solar Transmitter

Brand Name: Gatekeeper Systems

Model Number: D-9000 FCC ID: W3Z-D9000

**Date Sample(s) Received:** 2018-06-26

**Date Tested:** 2018-08-02 to 2018-08-10

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in accordance

with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 and

ANSI C63.10:2013 for FCC Certification.

**Conclusion(s):** The submitted product <u>COMPLIED</u> with the requirements of

Federal Communications Commission [FCC] Rules and

Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test

Report.

Remark(s): ---



Date: 2018-09-13 **Page 2 of 27** No. : HM18060018 **CONTENT:** Cover Page 1 of 27 Content Page 2 of 27 1.0 **General Details** 1.1 Equipment Under Test [EUT] Page 3 of 27 Description of EUT operation 1.2 Description of EUT Operation 1.3 Date of Order Page 3 of 27 Page 3 of 27 1.4 Submitted Sample Page 3 of 27 1.5 **Test Duration** 1.6 Country of Origin Page 3 of 27 2.0 **Technical Details** 2.1 Investigations Requested Page 4 of 27 2.2 Test Standards and Results Summary Page 4 of 27 <u>3.0</u> **Test Results** 3.1 **Emission** Page 5-21 of 27 Appendix A List of Measurement Equipment Page 23 of 27 Appendix B Photographs Page 24-27 of 27



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#### 1.0 General Details

# 1.1 Equipment Under Test [EUT] Description of Sample(s)

Product: Solar Transmitter

Manufacturer: Gatekeeper Systems (HK) Ltd.

36/F, Tower 2, Times Square, 1 Matheson Street, Causeway Bay,

Hong Kong

Brand Name: Gatekeeper Systems

Model Number: D-9000

Rating: NiMH rechargeable Battery (AA size x2)=2.4Vd.c

(EUT recharged by solar energy)

#### 1.2 Description of EUT Operation

The Equipment Under Test (EUT) is Solar Transmitter (remote control function) of Gatekeeper Systems (HK) Ltd., which is 2.4GHz transceiver.

The D-9000 Operational mode transmissions are modulated at MSK (Minimum Shift Keying). The EUT was tested under test mode which was set in maximum output power.

#### 1.3 Date of Order

2018-06-26

#### 1.4 Submitted Sample(s):

2 Samples

#### 1.5 Test Duration

2018-08-02 to 2018-08-10

#### 1.6 Country of Origin

China



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**<u>2.0</u>** Technical Details

### 2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 Regulations and ANSI C63.10:2013 for FCC Certification.

### 2.2 Test Standards and Results Summary Tables

	EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test I Pass	Result Fail		
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.10:2013	N/A	X			
AC power-line conducted emissions	FCC 47CFR 15.207	ANSI C63.10:2013	N/A	N	'A		
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10:2013	N/A	$\boxtimes$			
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	$\boxtimes$			

Note: N/A - Not Applicable



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3.0 Test Results

3.1 Emission

#### 3.1.1 Field Strength of Fundamental & Harmonics Emissions

Test Requirement: FCC 47CFR 15.249
Test Method: ANSI C63.10:2013

Test Date: 2018-08-02 Mode of Operation: 1. Tx Mode

#### **Test Method:**

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

Remark: 3 orthogonal axis apply to hand-held device only.

\*: Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. FCC Test Firm Registration Number <u>723883</u>
Designation Number <u>HK0001</u>



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### **Spectrum Analyzer Setting:**

9KHz – 30MHz (Pk & Av) RBW: 10kHz

VBW: 30kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

30MHz - 1GHz (QP) RBW: 120kHz

VBW: 120kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

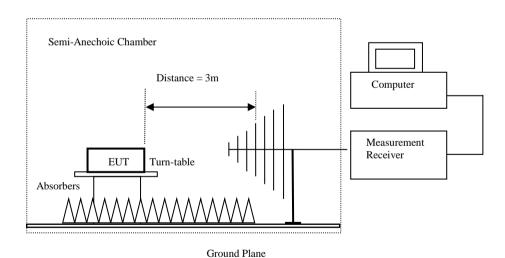
Above 1GHz (Pk & Av) RBW: 3MHz

VBW: 3MHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

#### **Test Setup:**



Absorbers placed on top of the ground plane are for measurements above 1000MHz only.

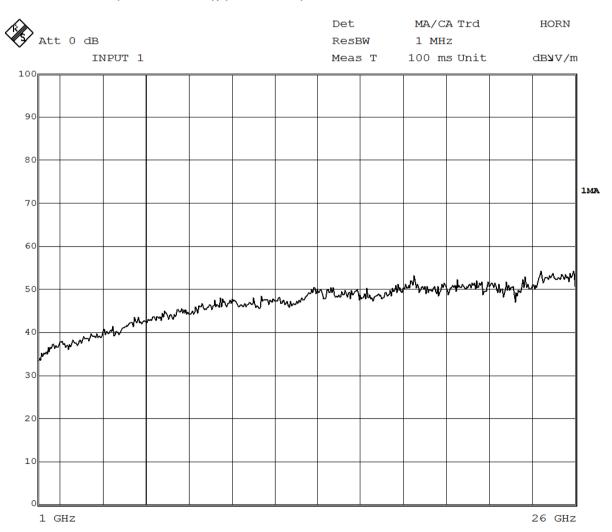


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#### Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Fundamental frequency	Field strength of fundamental	Field strength of harmonics
[MHz]	(millivolts/meter)	(microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

### Result of TX mode (Lowest Channel), (Above 1GHz): Pass





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Result of TX mode (Lowest Channel), (Above 1GHz): Pass

Result of 1X mode (Lowest Channel), (Above IGHZ): Pass								
	Field Strength of Fundamental and Harmonics Emissions							
			Peak Value					
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2403.5	59.8	27.9	87.7	24,266.1	500,000	Vertical		
* 4806.8	8.3	32.1	40.4	104.7	5,000	Vertical		
7210.4	0.9	0.9 38.6 39.5 94.4				Vertical		
9614.0					5,000	Vertical		
* 12017.5					5,000	Vertical		
14421.0					5,000	Vertical		
16824.5	E	Emissions detected are more than 5,000 Vertical						
* 19228.0		20 dB below the FCC Limits 5,000 Vertical						
21631.5		5,000 Vertical						
24035.0					5,000	Vertical		

	Field Strength of Fundamental and Harmonics Emissions							
		A	Average Valu	e				
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dBμV/m	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2403.5	48.3	27.9	76.2	6,456.5	50,000	Vertical		
* 4806.8	0.8	32.1	32.9	44.2	500	Vertical		
7210.4	-1.9 38.6 36.7 6				500	Vertical		
9614.0					500	Vertical		
* 12017.5					500	Vertical		
14421.0					500	Vertical		
16824.5	E	missions detec	cted are more	than	500	Vertical		
* 19228.0	20 dB below the FCC Limits 500 Vertical							
21631.5		500 Vertical						
24035.0					500	Vertical		

Remarks: The fundamental frequency was not included in the pre-scan plot, a 2.4G notch filter was added prior to the Receiver, please refer the band-edge plot for the level of fundamental frequency.



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#### Result of TX mode (Middle Channel), (Above 1GHz): Pass

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20													
10													
0													



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Result of TX mode (Middle Channel), (Above 1GHz): Pass

Result of TX mode (Middle Channel), (Above 1GHz): Pass								
	Field Strength of Fundamental and Harmonics Emissions							
			Peak Value					
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dBμV/m	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2441.2	58.4	27.9	86.3	20,653.8	500,000	Vertical		
* 4882.5	9.3	32.1	41.4	117.5	5,000	Vertical		
* 7323.5	1.2	38.6	39.8	97.7	5,000	Vertical		
9764.8					5,000	Vertical		
* 12206.0					5,000	Vertical		
14647.2					5,000	Vertical		
17088.4	E	Emissions detected are more than 5,000 Vertical						
* 19529.6	20 dB below the FCC Limits 5,000 Vertical							
21970.8		5,000 Vertical						
24412.0					5,000	Vertical		

	Field Str	ength of Fund	lamental and	Harmonics E	missions			
		A	Average Valu	e				
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dBμV/m	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2441.2	47.6	27.9	75.5	5,956.6	50,000	Vertical		
* 4882.5	1.1	32.1	33.2	45.7	500	Vertical		
* 7323.5	-1.3	38.6	37.3	73.3	500	Vertical		
9764.8					500	Vertical		
* 12206.0					500	Vertical		
14647.2					500	Vertical		
17088.4	E	missions detec	cted are more	than	500	Vertical		
* 19529.6	20 dB below the FCC Limits 500 Vertical							
21970.8		500 Vertical						
24412.0					500	Vertical		

Remarks: The fundamental frequency was not included in the pre-scan plot, a 2.4G notch filter was added prior to the Receiver, please refer the band-edge plot for the level of fundamental frequency.



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### Result of TX mode (Highest Channel), (Above 1GHz): Pass

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Result of TX mode (Highest Channel), (Above 1GHz): Pass

Result of TA II	Result of TX mode (Hignest Channel), (Above IGHz): Pass							
	Field Str	ength of Fund	damental and	Harmonics E	missions			
			Peak Value					
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2478.6	60.3	27.9	88.2	25,704.0	500,000	Vertical		
* 4957.2	10.5	32.1	42.6	134.9	5,000	Vertical		
* 7435.8	1.5	1.5 38.6 40.1 101.2				Vertical		
9914.4					5,000	Vertical		
* 12393.0					5,000	Vertical		
14871.6					5,000	Vertical		
17350.2	E	missions dete	cted are more	than	5,000	Vertical		
* 19828.8		20 dB below the FCC Limits 5,000 Vertical						
22307.4		5,000 Vertical						
24786.0					5,000	Vertical		

	Field Strength of Fundamental and Harmonics Emissions							
		A	Average Valu	e				
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dBμV/m	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2478.6	49.3	27.9	77.2	7,244.4	50,000	Vertical		
* 4957.2	1.5	32.1	33.6	47.9	500	Vertical		
* 7435.8	-1.5	38.6	37.1	71.6	500	Vertical		
9914.4					500	Vertical		
* 12393.0					500	Vertical		
14871.6					500	Vertical		
17350.2	Е	missions detec	cted are more	than	500	Vertical		
* 19828.8	20 dB below the FCC Limits 500 Vertical							
22307.4		500 Vertical						
24786.0					500	Vertical		

Remarks: The fundamental frequency was not included in the pre-scan plot, a 2.4G notch filter was added prior to the Receiver, please refer the band-edge plot for the level of fundamental frequency.

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 9kHz to 30MHz 2.4dB

30MHz to 18GHz 5.0dB 18GHz – 26.5Hz: 5.24dB

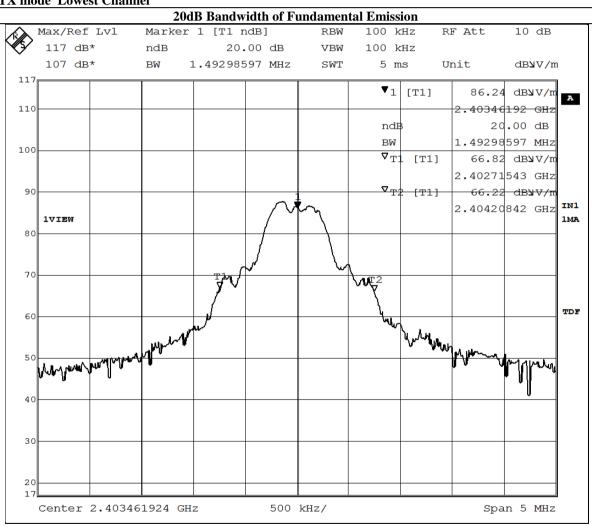


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#### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2403.5	1.49

#### TX mode Lowest Channel

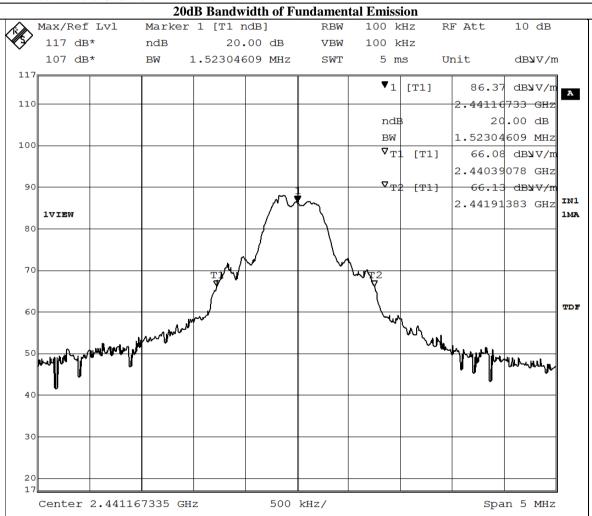




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Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2441.2	1.52

#### TX mode Middle Channel

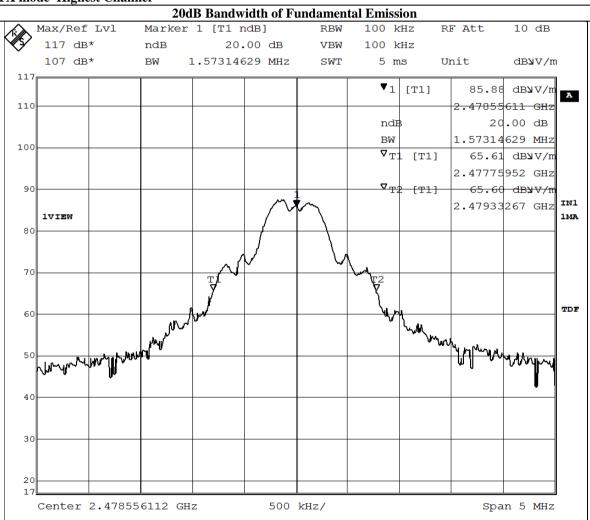




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Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2478.6	1.57

TX mode Highest Channel



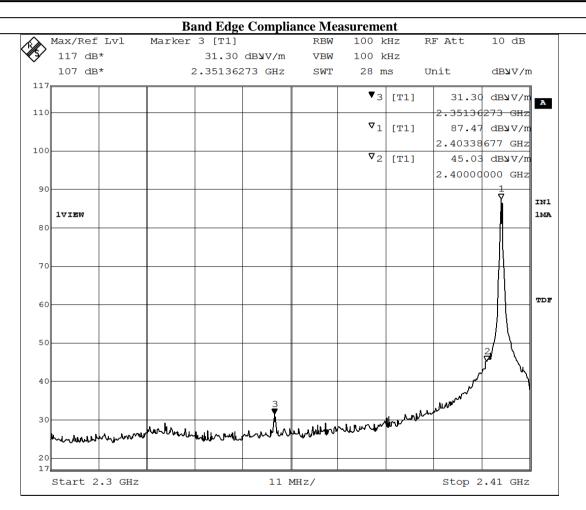


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#### **Band Edge Measurement:**

#### TX mode

Frequency Range	Radiated Emission Attenuated below the Fundamental
[MHz]	[dB]
2400MHz – Lowest Fundamental	42.4



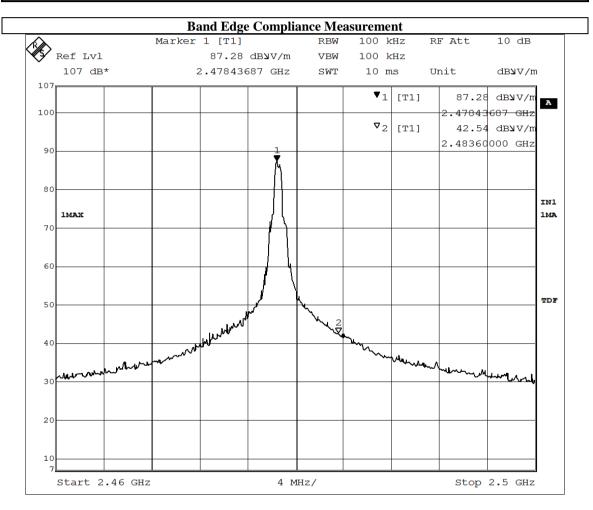


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#### **Band Edge Measurement:**

#### TX mode

Frequency Range	Radiated Emission Attenuated below the Fundamental
[MHz]	[dB]
Highest Fundamental – 2483.5MHz	44.7





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Result of TX mode, Band-edge measurement: PASS

Result of TA mode, Dand-edge measurement. TASS									
Field Strength of Fundamental and Harmonics Emissions									
Peak Value									
Frequency Measured Correction Field Field Limit @3m E-Field									
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	$dB\mu V/m$	dBμV/m	$dB\mu V/m$	$\mu V/m$	$\mu V/m$				
2351.4	8.7	27.6	36.3	65.3	5,000	Vertical			
2484.5	14.6	28.0	42.6	134.9	5,000	Vertical			

Field Strength of Fundamental and Harmonics Emissions								
Average Value								
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2351.4	1.6	27.6	29.2	28.8	500	Vertical		
2484.5	3.4	28.0	31.4	37.2	500	Vertical		



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### Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [µV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of Tx mode, (9kHz - 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits



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Result of Tx mode, (30MHz - 1GHz): PASS

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Field Strength of Fundamental and Harmonics Emissions										
	Quasi-Peak Value									
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field				
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$					
60.8	2.5	6.8	9.3	2.9	100	Vertical				
125.7	3.5	7.6	11.1	3.6	150	Horizontal				
203.4	1.6	10.9	12.5	4.2	150	Horizontal				
354.2	-0.9	16.0	15.1	5.7	200	Horizontal				
413.1	5.9	17.3	23.2	14.5	200	Horizontal				
479.3	5.5	18.6	24.1	16.0	200	Horizontal				



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Result of Receiver mode, (9kHz - 30MHz): PASS

Emissions detected are more than 20 dB below the Limits

**Result of Receiver mode, (30MHz – 1GHz): PASS** Emissions detected are more than 20 dB below the Limits

Result of Receiver mode, (1GHz - 18GHz): PASS

3	Result of Receiver mode, (1GHz – 16GHz). 1 ASS										
	Field Strength of Fundamental and Harmonics Emissions										
	Peak Value										
	Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field				
		Level @3m	Factor	Strength	Strength		Polarity				
	MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$					
	2441.5	3.7	27.9	31.6	38.0	5,000	Vertical				

Field Strength of Fundamental and Harmonics Emissions								
Average Value								
Frequency	Frequency Measured Correction Field Field Limit @3m E-Field							
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2441.5	1.1	27.9	29.0	28.2	500	Vertical		

#### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : (9kHz – 30MHz): 2.4dB

(30MHz – 1GHz): 5.0dB (1GHz - 18GHz): 5.0dB (1GHz - 18GHz): 5.24dB



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3.1.12 Antenna Requirement

Ambient temperature 21°C Relative humidity 51%

**Test Requirements: § 15.203** 

### **Test Specification:**

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **Test Results:**

This is Patch Antenna Array, the antenna gain = 13dBi. The EUT is required installed professionally, the connector is sealed, user is unable to remove or changed the Antenna.



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### Appendix A

### LIST OF MEASUREMENT EQUIPMENT

### **Radiated Emission**

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3		2018/04/24	2019/04/24
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM355	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00201783	2017/03/15	2019/03/15
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2018/06/01	2019/06/01
EM299	DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS-LINDGREN	3115	00114120	2018/04/27	2020/04/27
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2018/05/13	2020/05/13
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2018/03/16	2020/03/16

#### Remarks:

CM Corrective Maintenance

N/A Not Applicable or Not Available

TBD To Be Determined



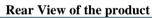
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### Appendix B

### Photographs of EUT

Front View of the product







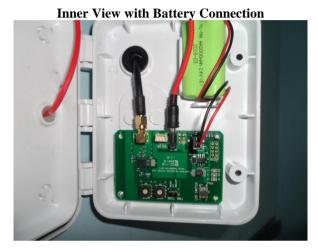


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### Photographs of EUT

**Inner View with Cable-routing** 





**Inner Circuit Top View** 



**Inner Circuit Bottom View** 





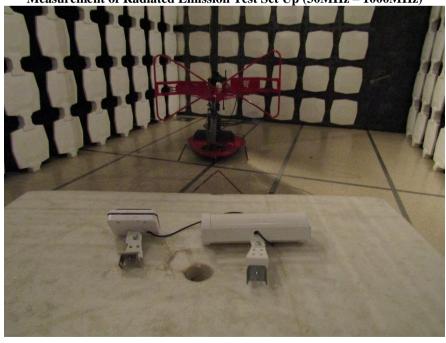
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Photographs of EUT

Measurement of Radiated Emission Test Set Up (9kHz - 30MHz)









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Photographs of EUT

Measurement of Radiated Emission Test Set Up (above 1000MHz)



\*\*\*\*\* End of Test Report \*\*\*\*\*

### **Conditions of Issuance of Test Reports**

- 1. All samples and goods are accepted by The Hong Kong Standards & Testing Centre Limited (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 the Company as a result of this application for testing service (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 his 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. The Report refers only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
- 5. In the event of the improper use 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.
- 6. Sample 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.
- 7. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 8. 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.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three 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 the retention period. Under no circumstances shall we be liable for damages 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.
- 10. Issuance records of the Report are available on the internet at www.stc-group.org. Further enquiry of validity or verification of the Reports should be addressed to the Company.