

Date : 2019-07-05 Page 1 of 26 No. : HM19050032

**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: Retrieval Key

Brand Name: Gatekeeper Systems

Model Number: K-9300 FCC ID: W3Z-K9300

**Date Sample(s) Received:** 2019-05-27

**Date Tested:** 2019-06-08 to 2019-06-11

**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: 2019-07-05 **Page 2 of 26** No. : HM19050032 **CONTENT:** Cover Page 1 of 26 Content Page 2 of 26 1.0 **General Details** 1.1 Equipment Under Test [EUT] Page 3 of 26 Description of EUT operation 1.2 Description of EUT Operation 1.3 Date of Order Page 3 of 26 Page 3 of 26 1.4 Submitted Sample Page 3 of 26 1.5 **Test Duration** 1.6 Country of Origin Page 3 of 26 2.0 **Technical Details** 2.1 Investigations Requested Page 4 of 26 2.2 Test Standards and Results Summary Page 4 of 26 <u>3.0</u> **Test Results** 3.1 **Emission** Page 5-20 of 26 Appendix A List of Measurement Equipment Page 21 of 26 Appendix B Photographs Page 22-26of 26



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#### 1.0 General Details

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

Product: Carttronics CRFII

Manufacturer: Gatekeeper Systems (HK) Ltd.

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

Kong

Brand Name: Gatekeeper Systems

Model Number: CRFII

Rating: 100-240Va.c, 0.5A

### 1.2 Description of EUT Operation

The Equipment Under Test (EUT) is transmitter of Gatekeeper Systems (HK) Ltd., which is 2.4GHz transceiver.

The CRFII Operational mode transmissions are modulated at O-QPSK &FSK. The EUT was tested under test mode which was set in maximum output power and transmit continuously.

#### 1.3 Date of Order

2018-12-20

#### 1.4 Submitted Sample(s):

2 Samples

#### 1.5 Test Duration

2019-01-05 to 2019-01-20

#### 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 /	Test I	Result			
			Severity	Pass	Fail			
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.10:2013	N/A	$\boxtimes$				
AC power-line conducted emissions	FCC 47CFR 15.207	ANSI C63.10:2013	N/A		$\boxtimes$			
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10:2013	N/A					

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: 2019-06-11 Mode of Operation: 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

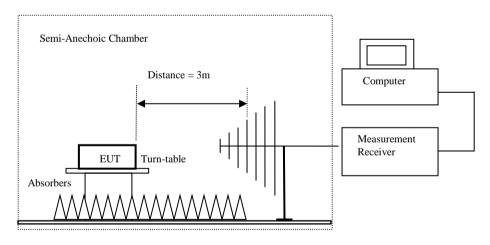
Above 1GHz (Pk & Av) RBW: 3MHz

VBW: 3MHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

#### **Test Setup:**



- Ground Plane
- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used,
- 9kHz to 30MHz loop antennas are used.
- -For emissions testing at or below 1 GHz, the table height shall be  $80\ \mathrm{cm}$  above the reference ground



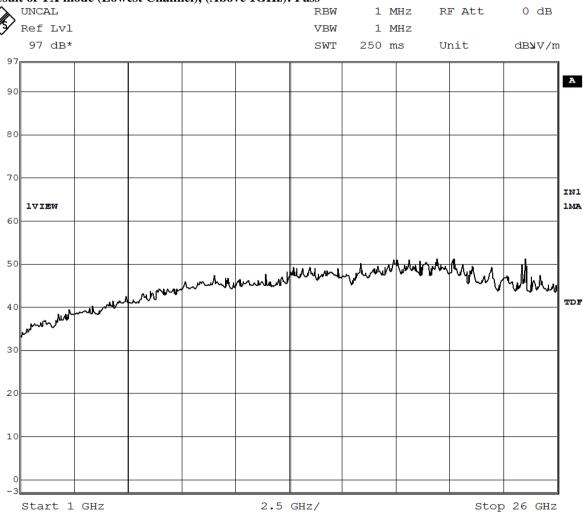
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### Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

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

	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	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$		
2402.0	64.4	27.9	92.3	41,209.8	500,000	Vertical	
* 4804.0	4.1	32.1	36.2	64.6	5,000	Vertical	
7206.0	1.1	38.6	39.7	96.6	5,000	Vertical	
9608.0					5,000	Vertical	
* 12010.0					5,000	Vertical	
14412.0					5,000	Vertical	
16814.0	E	missions detec	cted are more	than	5,000	Vertical	
* 19216.0	1	20 dB below	the FCC Lim	its	5,000	Vertical	
21618.0	1				5,000	Vertical	
24020.0	1				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	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2402.0	53.9	27.9	81.8	12,302.7	50,000	Vertical		
* 4804.0	0.8	32.1	32.9	44.2	500	Vertical		
7206.0	-1.3	38.6	37.3	73.3	500	Vertical		
9608.0					500	Vertical		
* 12010.0					500	Vertical		
14412.0					500	Vertical		
16814.0	Е	missions detec	cted are more	than	500	Vertical		
* 19216.0		20 dB below the FCC Limits				Vertical		
21618.0					500	Vertical		
24020.0					500	Vertical		

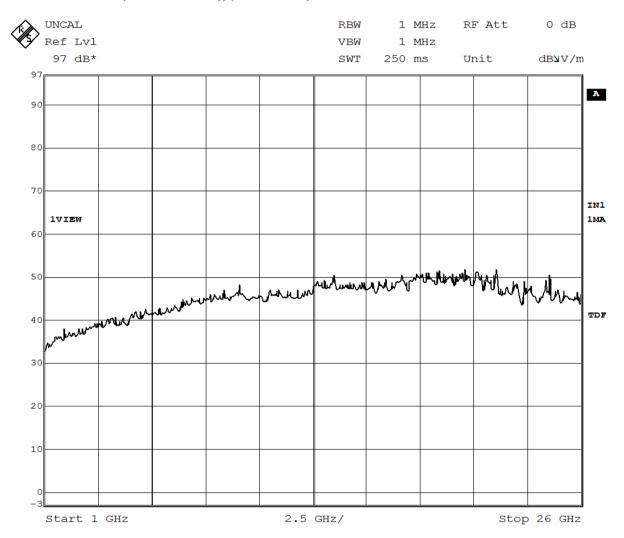
Remarks: The fundamental frequency was not included in the pre-scan plot, a 2.4G notch filter was added prior to the Receiver, please refer the band-edge plot for the level of fundamental frequency.



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





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

Result of 1 X n	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	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2440.0	63.7	27.9	91.6	38,018.9	500,000	Vertical		
* 4880.0	3.8	32.1	35.9	62.4	5,000	Vertical		
* 7320.0	1.9	38.6	40.5	105.9	5,000	Vertical		
9760.0					5,000	Vertical		
* 12200.0					5,000	Vertical		
14640.0					5,000	Vertical		
17080.0	Е	missions detec	cted are more	than	5,000	Vertical		
* 19520.0		20 dB below the FCC Limits				Vertical		
21960.0					5,000	Vertical		
24400.0					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	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$		
2440.0	54.7	27.9	82.6	13,489.6	50,000	Vertical	
* 4880.0	0.9	32.1	33.0	44.7	500	Vertical	
* 7320.0	-1.5	38.6	37.1	71.6	500	Vertical	
9760.0		-		•	500	Vertical	
* 12200.0					500	Vertical	
14640.0					500	Vertical	
17080.0	E	missions detec	cted are more	than	500	Vertical	
* 19520.0		20 dB below the FCC Limits				Vertical	
21960.0					500	Vertical	
24400.0					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

JNCAL Ref Lvl			RBW VBW		MHZ R MHZ	RF Att	0 dB
97 dB*			SWT	250	ms U	Jnit	dB <b>y</b> V/m
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IVIEW							
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Result of TX mode (Highest Channel), (Above 1GHz): Pass

Result of TX mode (Hignest 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	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2480.0	70.5	27.9	98.4	83,176.4	500,000	Vertical		
* 4960.0	5.7	32.1	37.8	77.6	5,000	Vertical		
* 7440.0	1.9	38.6	40.5	105.9	5,000	Vertical		
9920.0					5,000	Vertical		
* 12400.0					5,000	Vertical		
14880.0					5,000	Vertical		
17360.0	E	missions detec	cted are more	than	5,000	Vertical		
* 19840.0	]	20 dB below the FCC Limits				Vertical		
22320.0					5,000	Vertical		
24800.0	]				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	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$		
2480.0	59.7	27.9	87.6	23,988.3	50,000	Vertical	
* 4960.0	1.3	32.1	33.4	46.8	500	Vertical	
* 7440.0	-1.5	38.6	37.1	71.6	500	Vertical	
9920.0		-			500	Vertical	
* 12400.0					500	Vertical	
14880.0					500	Vertical	
17360.0	E	missions detec	cted are more	than	500	Vertical	
* 19840.0		20 dB below the FCC Limits				Vertical	
22320.0					500	Vertical	
24800.0					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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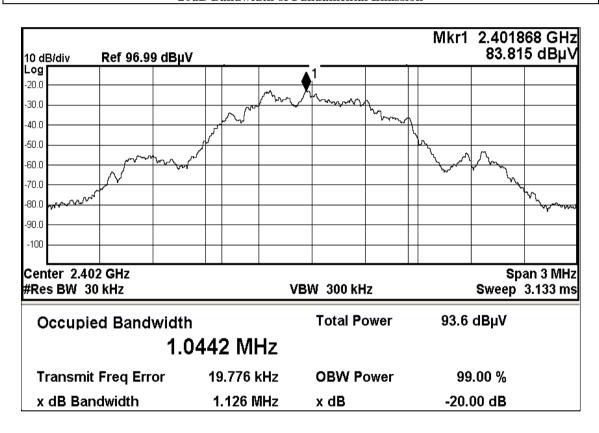
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#### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2402.0	1.126

#### TX mode (Lowest Channel)

#### 20dB Bandwidth of Fundamental Emission





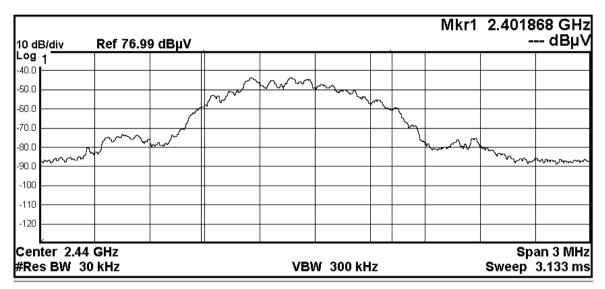
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Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2440.0	1.148

### TX mode (Middle Channel)

### 20dB Bandwidth of Fundamental Emission



Occupied Bandwidt	h	Total Power	73.5 dBµV	
1.	0372 MHz			
Transmit Freq Error	-99.117 kHz	OBW Power	99.00 %	
x dB Bandwidth	1.148 MHz	x dB	-20.00 dB	



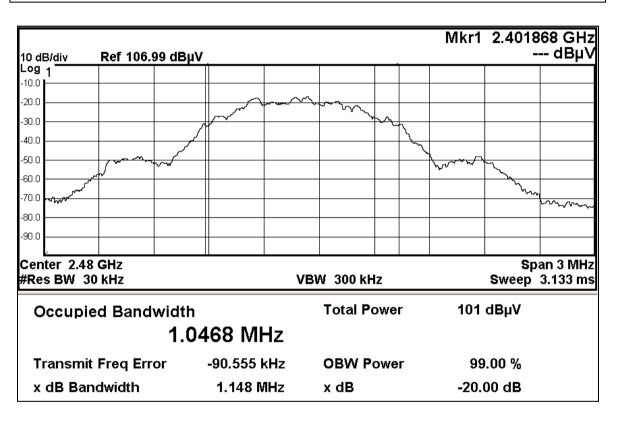
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Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2480.0	1.148

TX mode: CC2430 Highest Channel

### 20dB Bandwidth of Fundamental Emission





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

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2400MHz – Lowest Fundamental	30.6

### **Band Edge Compliance Measurement** Mkr1 2.401 86 GHz 92.536 dBµV 10 dB/div Log Ref 106.99 dBµV 97.0 87.0 77.0 67.0 57.0 47.0 37.0 27.0 17.0 Start 2.30000 GHz Stop 2.41000 GHz Sweep 1.000 ms (1001 pts) Res BW 1.0 MHz VBW 50 MHz

MKR MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1 N 1 f	2.401 86 GHz	92.536 dBµV			
2 N 1 f	2.400 00 GHz	62.766 dBµV			
3 N 1 f	2.389 54 GHz	51.226 dBµV			
4					

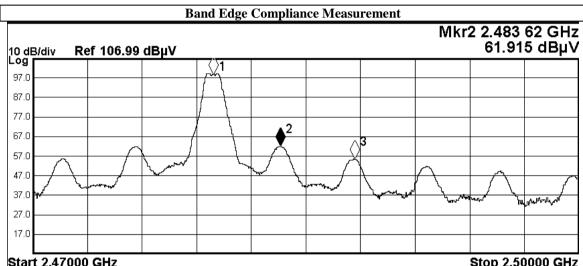


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#### **Band Edge Measurement:**

Frequency Range	Radiated Emission Attenuated below the Fundamental
[MHz]	[dB]
Highest Fundamental – 2483.5MHz	36.0



 Start 2.47000 GHz
 Stop 2.50000 GHz

 Res BW 270 kHz
 VBW 2.7 MHz
 Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	×	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.479 93 GHz	98.762 dBµV			
2	Ν	1	f	2.483 62 GHz	61.915 dBµV			
3	Ν	1	f	2.487 67 GHz	55.396 dBµV			
4								

Result of TX mode: CC2430, Band-edge measurement: PASS

result of 111 m	Result of 112 mode. Co2150; Build edge medsurement. 11165							
Field Strength of Fundamental and Harmonics Emissions								
	Peak Value							
Frequency	Frequency Measured Correction Field Field Limit @3m E-Field							
	Level @3m Factor Strength Strength					Polarity		
MHz	MHz $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$ $\mu V/m$ $\mu V/m$							
2389.5 23.3 27.9 51.2 363.1 5,000 Vertical								
2487.7	27.5	27.9	55.4	588.8	5,000	Vertical		

Field Strength of Fundamental and Harmonics Emissions Average Value							
Frequency	Ö						
1 ,	Level @3m Factor Strength Strength					Polarity	
MHz $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$ $\mu V/m$ $\mu V/m$							
2389.5	12.8	27.9	40.7	108.4	500	Vertical	
2487.7	16.4	27.9	44.3	164.1	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.

Remarks: Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate in the table below is the worst case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases.

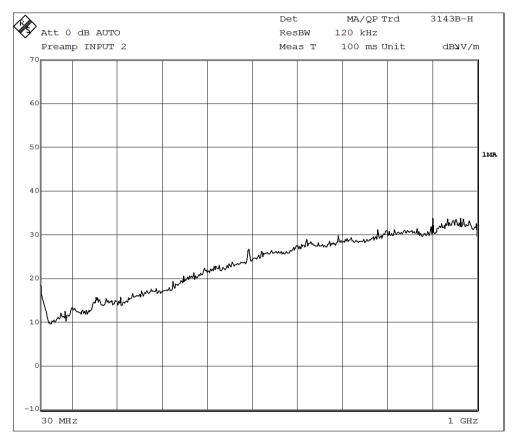
Result of TX mode, (9kHz - 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits



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### Result of TX mode (30MHz - 1GHz): PASS



Field Strength of Fundamental and Harmonics Emissions						
		Qı	ıasi-Peak Va	lue		
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$	
38.4	9.8	7.5	17.3	7.3	100	Horizontal
111.4	5.4	8.4	13.8	4.9	150	Horizontal
224.5	4.8	10.5	15.3	5.8	150	Horizontal
387.4	6.8	18.2	25.0	17.8	200	Horizontal
512.8	3.4	21.2	24.6	17.0	200	Horizontal
598.4	2.3	21.1	23.4	14.8	200	Horizontal



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Result of Receiver mode, (9kHz - 30MHz): N/A

Result of Receiver mode, (30MHz - 1GHz): N/A

Result of Receiver mode, (1GHz - 18GHz): N/A

#### 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 – 18GHz): 5.0dB (18GHz - 26GHz): 5.24dB



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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		2019/04/24	2020/04/24
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM355	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00201783	2019/03/11	2021/03/11
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2019/06/11	2020/06/11
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



Rear View of the product



Rear View of the product



Rear View of the product





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Photographs of EUT

**Inner View of the Product** 





**PCB Bottom View of the Product** 





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Photographs of EUT

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





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Photographs of EUT

Measurement of Radiated Emission Test Set Up (30MHz to 1000MHz)



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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. Subject to clause 3, 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 be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.
- 4. 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.
- 5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
- 6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.
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- 12. Issuance records of the Report are available on the internet at www.stc.group. Further enquiry of validity or verification of the Reports should be addressed to the Company.