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Applicant:		Office Uchisaiwaicho, nbashi, Minatoku,
Manufacturer:	· · · · · · · · · · · · · · · · · · ·	Office Uchisaiwaicho, nbashi, Minatoku,
Description of Sample(s):	Product: Brand Name: Model Number: FCC ID:	Contactless Card Reader Module AB Circle Limited CIM315A 2AUVM-CIM315A
Date Sample(s) Received:	2020-09-02	
Date Tested:	2020-09-09 to 202	20-09-21
Investigation Requested:	with FCC 47CFR	agnetic Interference measurement in accordance [Codes of Federal Regulations] Part 15: 2018 and 3 for FCC Certification.
Conclusion(s):	Federal Communi Regulations Part 1	duct <u>COMPLIED</u> with the requirements of cations Commission [FCC] Rules and 5. The tests were performed in accordance with ribed above and on Section 2.2 in this Test
Remark(s):		

Dr LEE Kam Chuen, Authorized Signatory



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<u>1.0</u> General Details

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

Product: Manufacturer:	Contactless Card Reader Module AB CIRCLE LIMITED Room 609, Cross Office Uchisaiwaicho, 1-18-6, Nishi-Shimbashi, Minatoku,
Brand Name: Model Number: Rating:	Tokyo, Japan 105-003 AB Circle Limited CIM315A 5Vd.c. of USB port of EUT

1.2 Description of EUT Operation

The Equipment Under Test (EUT) is 13.56MHz Contactless Card Reader Module, which is 13.56MHz transceiver fixed transmit at 13.56MHz, the modulation is ASK type which is provided by IC. The module RF transmission configuration is controlled by software APDU.exe.

1.3 Date of Order

2020-09-02

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2020-09-09 to 2020-09-21

1.6 Country of Origin

China



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2.0 <u>Technical Details</u>

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2018 Regulations and ANSI C63.10:2013 for FCC Certification.

2.2 Test Standards and Results Summary Tables

Results Summary						
Test Condition	Test Requirement Test Method Class /				Test Result	
			Severity	Pass	Fail	
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.225(a-d)	ANSI C63.10:2013	N/A			
The Frequency Tolerance of Carrier Signal	FCC 47CFR 15.225(e)	ANSI C63.10:2013	N/A			
20 dB Bandwidth	FCC 47CFR 15.215	ANSI C63.10:2013	N/A	\square		
Radio Frequency powered Tags	FCC 47CFR 15.225(f)	ANSI C63.10:2013	N/A	N	/A	
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10:2013	N/A			
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	\square		
AC power-line conducted emissions	FCC 47CFR 15.207	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 15.225 a to d
Test Method:	ANSI C63.10:2013
Test Date:	2020-09-18
Mode of Operation:	On mode connected to PC

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semianechoic 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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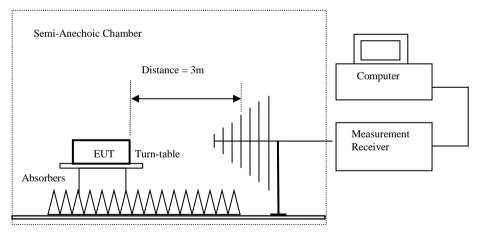


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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW: VBW: Sweep: Span: Trace:	10kHz 30kHz Auto Fully capture the emissions being measured Max. hold
30MHz – 1GHz (QP)	RBW: VBW: Sweep: Span: Trace:	120kHz 120kHz Auto Fully capture the emissions being measured Max. hold
Above 1GHz (Pk & Av)	RBW: VBW: Sweep: Span: Trace:	3MHz 3MHz Auto Fully capture the emissions being measured 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 cm above the reference ground

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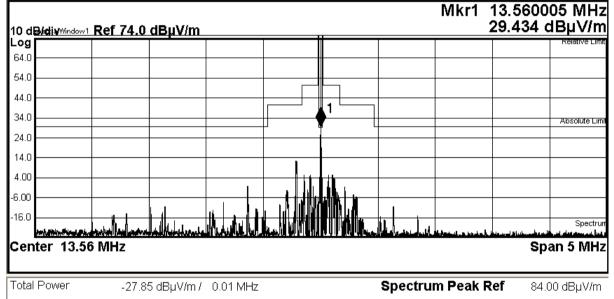
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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.225]:

Fundamental frequency	Field strength of fundamental
[MHz]	(microvolts /meter)
13.553–13.567 MHz	15848uV@30m
	(84dBuV/m)
13.410–13.553 MHz	334uV@30m
and 13.567-13.710 MHz	(50.4dBuV/m)
13.110–13.410 MHz	106uV@30m
and 13.710-14.010 MHz	(40.5dBuV/m)
outside of the 13.110-	Refer to 15.209
14.010 MHz	

Result of On mode connected to PC: Pass



Start Freq	Stop Freq	Integ BW	dBµV/	Lower ∆Lim(dB)	<- Freq (Hz)	Peak -> dBµV/	Upper ∆Lim(dB)	Freq (Hz)
7.000 kHz 150.0 kHz 450.0 kHz 900.0 kHz		3.000 kHz 3.000 kHz	-94.55 -107.29	(-45.26) (-28.06) (-29.80) (-39.97)	-127.5 k -196.5 k -619.4 k -1.344 M	-107.79	(-41.30)	86.98 k 196.5 k 620.9 k 929.8 k

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Result of On mode connected to PC: Pass [FCC 47CFR 15.225a]

Frequency Range(MHz)	Highest Field strength measured @3m (dBuV/m)	Highest Field strength calculated @30m (dBuV/m)	Limit@30m (dBuV/m)
13.553 - 13.567	69.4@13.56MHz	29.4@13.56MHz	84.0

Result of On mode connected to PC: Pass [FCC 47CFR 15.225b]

Frequency Range(MHz)	Highest Field strength measured @3m (dBuV/m)	Highest Field strength calculated @30m (dBuV/m)	Limit@30m (dBuV/m)
13.410-13.553 and 13.567- 13.710	44.3@13.49MHz	4.3@13.49MHz	50.4

Result of On mode connected to PC: Pass [FCC 47CFR 15.225c]

Frequency Range(MHz)	Highest Field strength measured @3m (dBuV/m)	Highest Field strength calculated @30m (dBuV/m)	Limit@30m (dBuV/m)
13.110-13.410 and 13.710- 14.010	51.9 @13.33MHz	11.9 @13.33MHz	40.5

Result of On mode connected to PC: Pass [FCC 47CFR 15.225d]

Frequency Range(MHz)	Highest Field strength measured @3m (dBuV/m)	Highest Field strength calculated @30m (dBuV/m)	Limit@30m (dBuV/m)
Others frequencies < 30MHz	40.7 @12.33MHz	0.7 @12.33MHz	29.5

Remark:

The Measurement was performed at 3m distance between the EUT and the receiving antenna, the distance factor was applied to at the spectrum analyzer, the correction factor is equal to 40dB. The distance factor from 3m to 30m was refer to C63.10:2013.

Formula:

Highest Field strength calculated @30m = Highest Field strength measured @3m - Correction Factor

Calculated measurement uncertainty :

9kHz to 30MHz: 2.4dB 30MHz to 18GHz: 5.0dB 18GHz – 26.5Hz: 5.24dB



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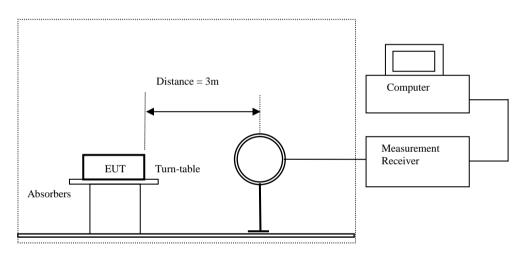
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3.1.2 20DB BANDWIDTH

Ambient Temperature: 21°C

Relative Humidity: 45%

Test Requirement: Test Method: Test Date: Mode of Operation: FCC 47CFR 15.215 ANSI C63.10:2013 2020-09-18 On mode connected to PC



Ground Plane



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23.0

13.0

2.99 -7.01 -17.0 Page 10 of 20

Center Frequency [MHz] 13.56			[MHz]			20dB Bandwidth [kHz] 0.2		
10 dB/div	Ref 62.99	dBµV/m				Δ	Mkr2 200 Hz 0.079 dB	
Log 53.0								
43.0								
33.0				1				

2∆3

-27.0			-											
Cent	Center 13.560635 MHz Span 1.000 kH								1.000 kHz					
#Res	s BW	/ 3	0 H	z	V	BW	300 Hz			Swee	ep (FFT) ~63	2.53 ms (
MKR N	IODE	TRC	SCL		×		Y		FUNC	TION	FUN	CTION WIDTH	FUNCTIO	ON VALUE
1	N	1	f		13.560 634 MHz	2	8.460 dBµV.	/m		Ĩ		ĺ		
2	Δ3	1	f	(Δ)	200 Hz	(Δ)	0.079 (dB						
3	F	1	f		13.560 541 MHz		8.146 dBµV	/m						
4														

ά3



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3.1.3 THE FREQUENCY TOLERANCE OF CARRIER SIGNAL

Ambient Temperature: 21°C

Relative Humidity: 45%

Test Requirement:	FCC 47CFR 15.225e
Test Method:	ANSI C63.10:2013
Test Date:	2020-09-16
Mode of Operation:	On mode connected to PC

The frequency tolerance, results: PASS

TEST CO	ONDITIONS	Measured	Frequency Error	
		Frequency (MHz)	(%)	
		F _{carrier} (MHz)		
Tnom: 20 °C	Unom: 5.0Vd.c.	13.5606	N/A	
Ulow: -20°C	Umax: 5.75Vd.c.	13.5608	0.0015	
	Umin: 4.25Vd.c.	13.5608	0.0015	
Tmax: 50°C	Umax: 5.75Vd.c.	13.5605	-0.001	
	Umin: 4.25Vd.c.	13.5605	-0.001	
	Max. Freq. Error (%)		0.0015	
Limit		±0.01%		
Measurement uncertainty		<±1* 10 ⁻⁷		



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3.1.4 Radiated Emissions

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [µV/m]
0.009-0.490	2400/F (kHz)@300m
0.490-1.705	24000/F (kHz)@30m
1.705-30	30@30m
30-88	100@3m
88-216	150@3m
216-960	200@3m
Above960	500@3m

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:

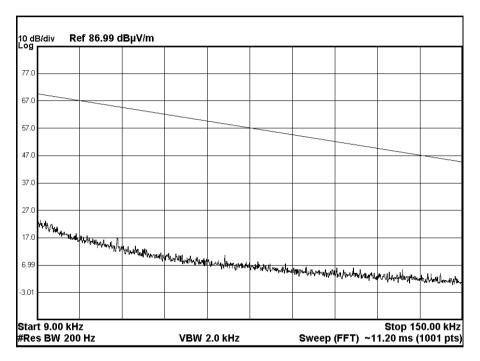
The Measurement was performed at 3m distance between the EUT and the receiving antenna. And the correction factor was included antenna factor and distance factor (3m to 30m) which shown on the pre-scan plot and the final value.

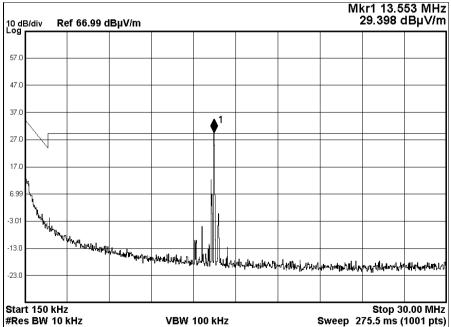
Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate in the table below is the worst case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases.



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Result of On mode connected to PC, (9kHz - 30MHz): PASS





The peak value shown on the graph was 13.56MHz which the result was measured and calculated at page 7-8,

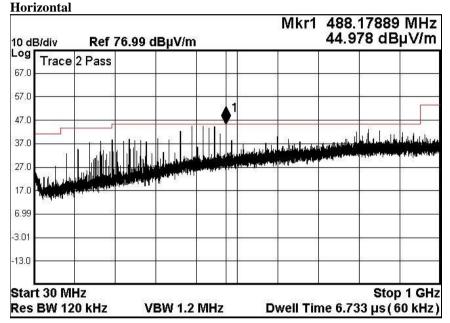
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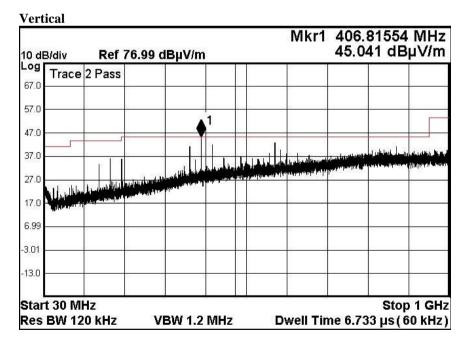
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others missions detected outside the spectrum mask are more than 20 dB below the FCC Limits



Pre-scan result of On mode connected to PC (30MHz – 1GHz):



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Result of On mode connected to PC (30MHz – 1GHz): PASS

	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	dBµV/m	dBµV/m	dBµV/m	$\mu V/m$	$\mu V/m$					
135.8	29.4	7.7	37.1	71.8	150	Horizontal				
162.7	27.6	10.3	37.9	78.7	150	Horizontal				
216.9	26.3	11.5	37.8	77.4	200	Horizontal				
298.3	26.2	13.8	40.0	99.8	200	Horizontal				
406.8	26.4	18.0	44.4	166.0	200	Vertical				
448.2	27.0	17.8	44.8	173.0	200	Horizontal				

Result of On mode connected to PC, (1GHz – 18GHz):

Emissions detected are more than 20 dB below the FCC Limits

Remarks:

The pre-scan results are for reference, the frequencies found will perform final measurement which shown on the table below the graphs, therefore, there may be some different in measured frequencies and field strength shown on the graph and the table.

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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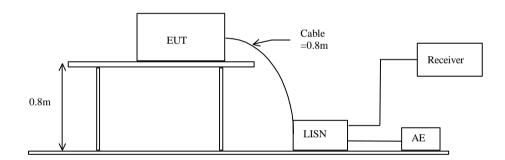
3.1.5 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC 47CFR 15.207 Class B
Test Method:	ANSI C63.10: 2013
Test Date:	2020-09-09
Mode of Operation:	*On mode connected to PC

Test Method:

The test was performed in accordance with ANSI C63.10: 2013, with the following: initial measurements were performed in peak and average detection modes on the live line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



Remarks: The antenna of the EUT was terminated with 50 ohm resistive load



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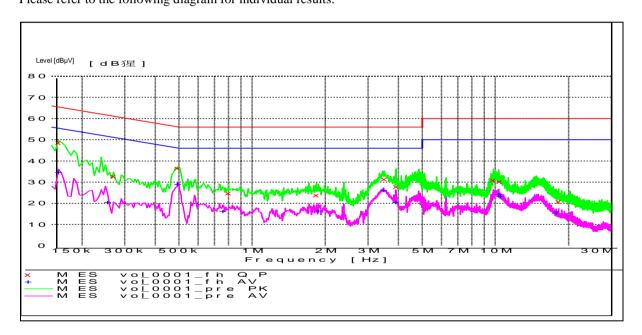
Limits for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range	Quasi-Peak Limits	Average
[MHz]	[dBµV]	[dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of On mode connected to PC (Live and Neutral): PASS Please refer to the following diagram for individual results.





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MEASUREMENT RESULT: "vol_0001_fin QP"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.160000	48.70	9.9	66	16.8	L1	GND
0.270000	32.80	9.9	61	28.3	L1	GND
0.495000	36.60	10.0	56	19.5	L1	GND
0.800000	24.80	10.0	56	31.2	Ν	GND
1.835000	23.80	10.0	56	32.2	Ν	GND
3.500000	31.50	10.2	56	24.5	L1	GND
3.915000	27.80	10.2	56	28.2	L1	GND
9.835000	30.90	10.4	60	29.1	Ν	GND
10.445000	30.10	10.5	60	29.9	L1	GND
18.210000	20.70	10.3	60	39.3	Ν	GND

MEASUREMENT RESULT: "vol_0001_fin AV"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.160000 0.255000 0.495000 1.870000 3.475000 3.900000 10.320000 10.495000 17.745000	34.60 20.50 29.20 16.20 26.20 20.60 24.30 23.50 15.70	9.9 9.9 10.0 10.0 10.1 10.2 10.5 10.5 10.3	56 52 46 46 46 46 50 50 50	20.8 31.1 16.9 29.8 29.5 19.8 25.4 25.4 25.7 26.5 34.3	N L1 L1 N L1 L1 N N N	GND GND GND GND GND GND GND GND GND



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Relative humidity 50%

3.1.6 Antenna Requirement

Ambient temperature 21°C

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 PCB antenna. There is no external antenna, the antenna gain =0dBi. 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		2020/04/13	2021/04/13
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	2019/11/07	2021/11/07
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2020/05/13	2021/05/13
EM022	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2019/11/30	2021/11/30

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	2020/06/30	2021/06/30
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2020/05/13	2021/05/13
EM179	IMPULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	357-8810.52/54	2020/01/13	2021/01/11

Remarks:

- CM Corrective Maintenance
- N/A Not Applicable or Not Available

TBD To Be Determined

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

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- 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.
- 11. 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.
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