STC (Dongguan) Company Limited

EC DECLARATION OF CONFORMITY

Reference Number: EMC-D163134DOC

Intracom Asia Co., Ltd.
4F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan

declare the product

Description:	300N High-Power PoE Access Point
Brand Name:	Intellinet
Model:	525800

complies with the requirements of the relevant union harmonization legislation:
EC Electromagnetic Compatibility Directive 2014/30/EU

Applicable Standard(s) with amendments:
EN55022: 2010 +AC: 2011
EN55024: 2010
EN61000-3-2: 2014
EN61000-3-3: 2013

General Remarks:
This declaration is only valid when used in conjunction with the technical file(s) refers to DM123144
This declaration applies specifically to the sample(s) investigated in the technical report mentioned above and not to the bulk.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

Manufacturer/Importer CE **Test Laboratory**

Signature

LONG Yun Jian, Along
Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of
STC (Dongguan) Company Limited

www.dgstc.org **Date of Issue:** 2016-04-20

STC Test Report

DAkkS Deutsche Akkreditierungsstelle D-PL-12121-01-00

Date: 2016-04-15
No.: DM123144

Applicant: Intracom Asia Co., Ltd.
4F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan

Description of Sample(s): Submitted sample(s) said to be

Product:	300N High-Power PoE Access Point
Brand Name:	Intellinet
Model Number:	525800

Date Sample(s) Received: 2015-06-09

Date Tested: 2015-06-12 to 2015-06-17

Investigation Requested: Test for compliance with EMC requirements of EN55022, EN55024, EN61000-3-2 and EN61000-3-3.

Conclusion(s): The submitted product COMPLIED with the requirements of EN55022: 2010 +AC: 2011, EN55024: 2010, EN61000-3-2: 2014 and EN61000-3-3: 2013. The EMC tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remark(s): ---

LONG Yun Jian, Along
Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of
STC (Dongguan) Company Limited

STC Test Report

CONTENT:

1.0 General Details

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

Product:	300N High-Power PoE Access Point
Manufacturer:	Intracom Asia Co., Ltd. 4F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan
Brand Name:	Intellinet
Model Number:	525800
Rating:	Input: 100-240Va.c. 50/60Hz 0.5A; Output: 12Vd.c. 1.0A.

The AC/DC adaptor was provided by the applicant with following details:
Brand name: AMIGO; Model no.: AMS9-1201000FV2

1.2 Date of Order

2015-06-09

1.3 Submitted Sample(s):

1 Sample

1.4 Test Duration

2015-06-12 to 2015-06-17

1.5 Country of Origin

China

2.0 Technical Details

2.1 Investigations Requested

Perform ElectroMagnetic Interference [EMI] & ElectroMagnetic Susceptibility [EMS] tests for CE Marking

2.2 Test Standards and Results Summary Tables

Test Standards	
EN55022: 2010 +AC: 2011	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
EN55024: 2010	Information technology equipment - Immunity characteristics - Limits and methods of measurement
EN61000-3-2: 2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)
EN61000-3-3: 2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Radiated Emission, 30MHz to 1GHz	EN55022: 2010 +AC: 2011	EN55022: 2010 +AC: 2011	Class B	☒	☐	☐
Conducted Emission on AC / Telecommunication Port, 150kHz to 30MHz	EN55022: 2010 +AC: 2011	EN55022: 2010 +AC: 2011	Class B	☒	☐	☐
Harmonic Emissions on AC Supply	EN61000-3-2: 2014	EN61000-3-2: 2014	Class A	☒	☐	☐
Voltage Fluctuations on AC Supply	EN61000-3-3: 2013	EN61000-3-3: 2013	N/A	☒	☐	☐

2.2 Test Standards and Results Summary Tables

IMMUNITY Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Electrostatic Discharge	EN55024: 2010	EN61000-4-2: 2009	±4.0kV Cont ±2.0kV, ±4.0kV, ±8.0kV Air	☒	☐	☐
Radiated Immunity 80MHz to 1000MHz	EN55024: 2010	EN61000-4-3: 2006 +A1: 2008 +A2: 2010	3V/m	☒	☐	☐
Electrical Fast Transients on AC Supply	EN55024: 2010	EN61000-4-4: 2004	□ 1.0kV	☒	☐	☐
Surge Immunity on AC Supply	EN55024: 2010	EN61000-4-5: 2006	□ 1.0kV	☒	☐	☐
Continuous RF Immunity on AC Supply	EN55024: 2010	EN61000-4-6: 2009	3Vrms	☒	☐	☐
Voltage Dips, Interruptions and Variations on AC Supply	EN55024: 2010	EN61000-4-11: 2004	0%, 70% of UT	☒	☐	☐

Remarks:
N/A: Not Applicable
$U_{T.}$ The nominal supply voltage

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions (30MHz to 1000MHz)

Test Requirement:	EN 55022
Test Method:	EN 55022
Level:	Class B
Test Date(s):	2015-06-15
Mode of Operation:	Wireless mode

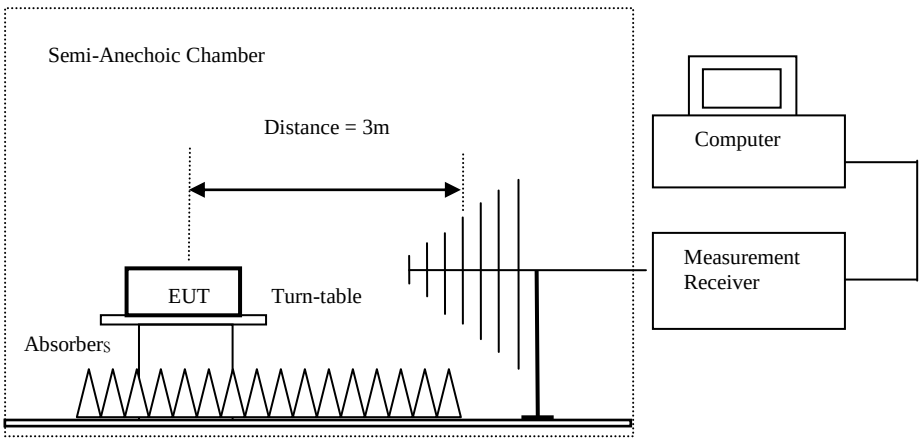
Test Method:

The test was performed in accordance with EN55022 at 3m test distance on a standard emission test site, with quasi-peak measurements performed if the maximised peak measurements were less than 6dB from the corresponding Class B limit lines.

Test Procedure:

The EUT is a USB HEADSET, the test was conducted during the on mode function to simulate the normal usage as well as to produce the maximum electromagnetic disturbances.

Test Setup:



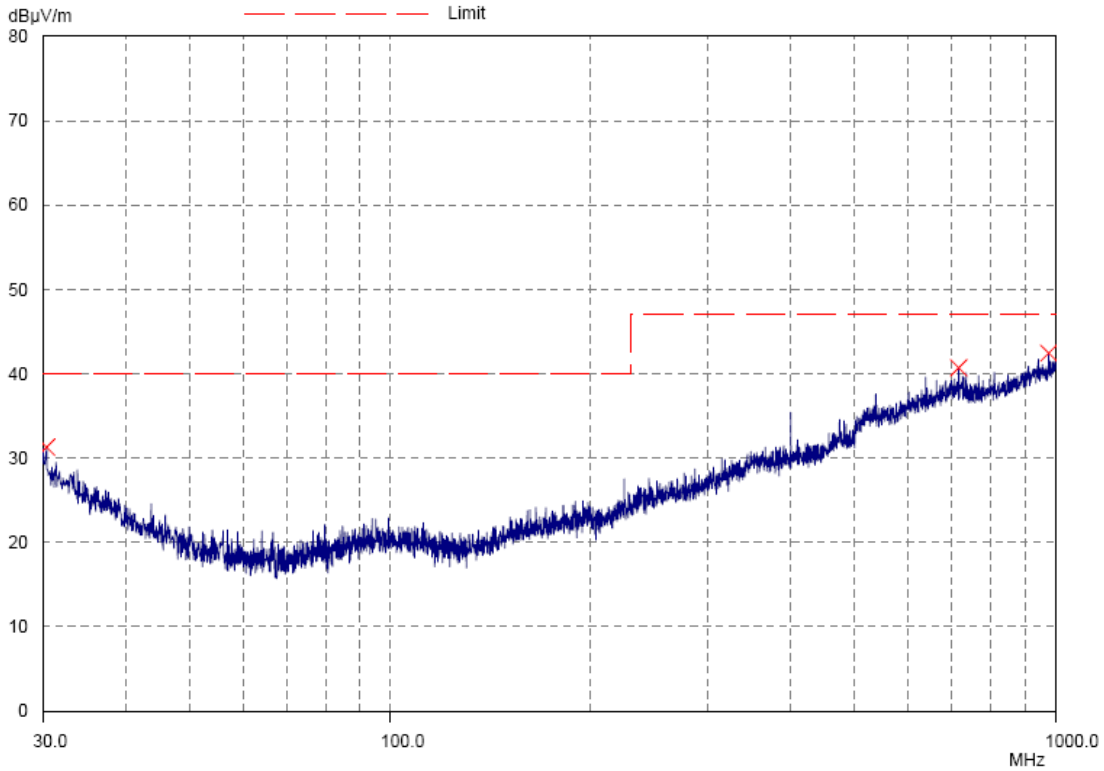
Absorbers placed on top of the ground plane are for measurements above 1000MHz only.

Limits for Radiated Emission:

Frequency Range [MHz]	Quasi-Peak Limits [dBμV/m]
30-230	40.0
230-1000	47.0

Results of Wireless mode: Pass
Please refer to the following table for result details

Horizontal



The quasi-peak measurements were recorded as follows:

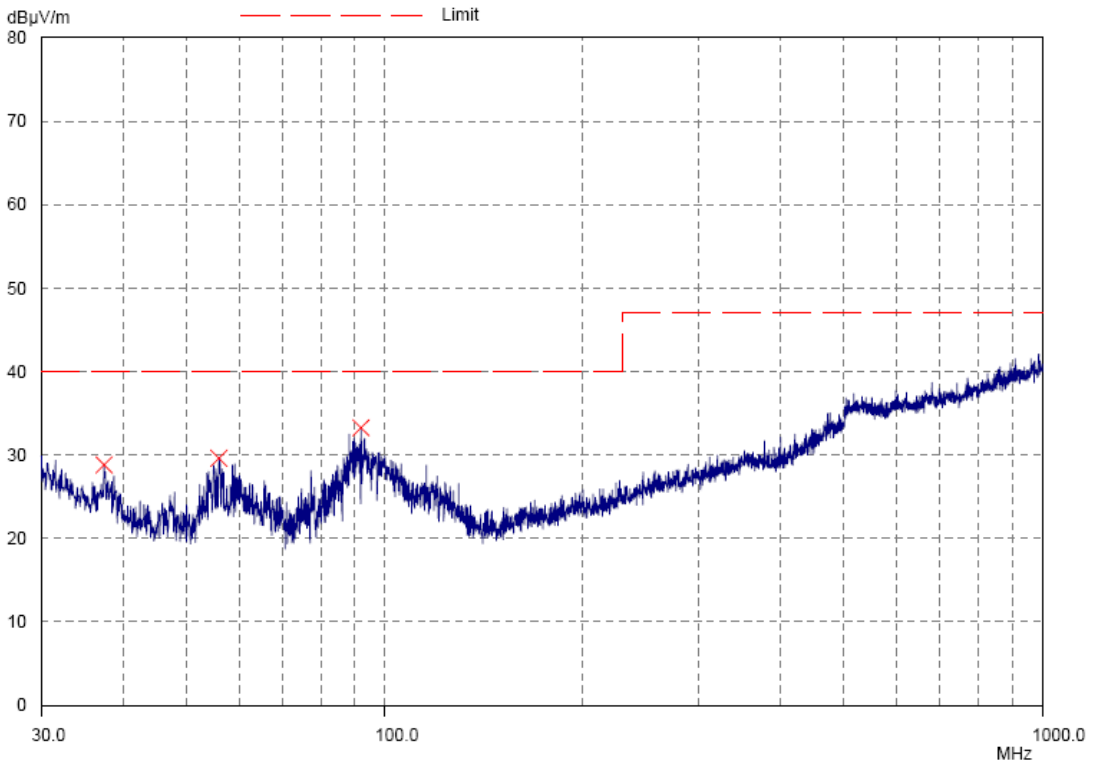
Frequency MHz	Level @3m dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
30.4	29.2	40.0	10.8	Horizontal
716.3	37.7	47.0	9.3	Horizontal
977.8	39.4	47.0	7.6	Horizontal

Limits for Radiated Emission:

Frequency Range [MHz]	Quasi-Peak Limits [dBμV/m]
30-230	40.0
230-1000	47.0

Results of Wireless mode: Pass
Please refer to the following table for result details

Vertical



The quasi-peak measurements were recorded as follows:

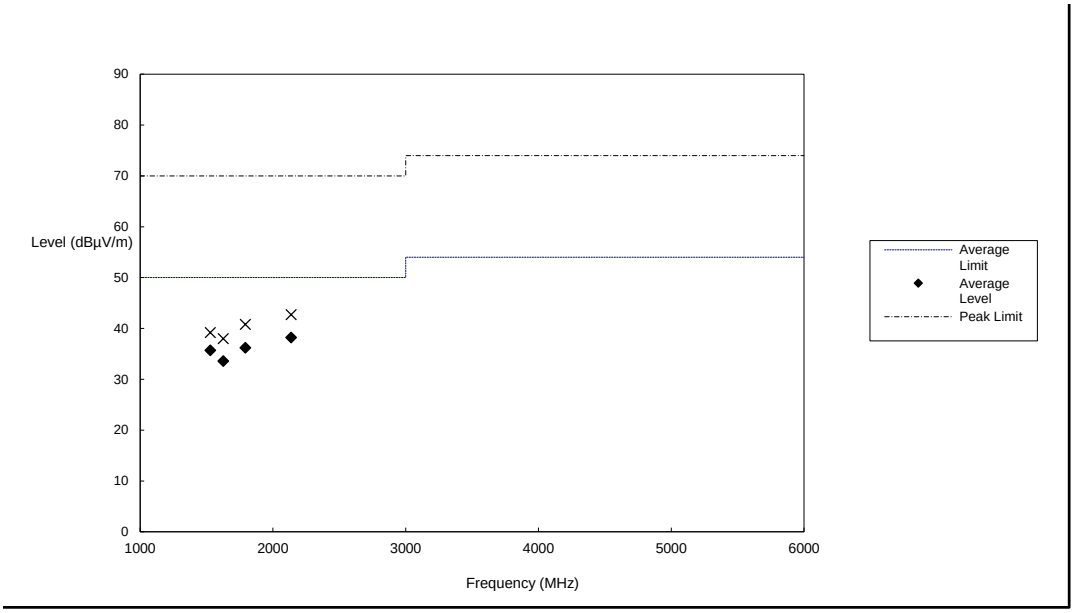
Frequency MHz	Level @3m dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
37.4	28.1	40.0	11.9	Vertical
55.9	29.3	40.0	10.6	Vertical
91.9	33.0	40.0	7.0	Vertical

Limits for Radiated Emission:

Frequency of Emission (MHz)	Average Limit (dBμV/m)	Peak Limits (dBμV/m)
1000-3000	50	70
3000-6000	54	74
NOTE: The lower limit applies at the transition frequency.		

Results of Wireless mode: Pass

Please refer to the following table for result details



The average & peak measurements were recorded as follows:

Frequency MHz	Average Level @3m dB□ V/m	Peak Level @3m dB□ V/m	Average Limit @3m dB□ V/m	Peak Limit @3m dB□ V/m	Margin Average dB	Margin Peak dB	E-Field Polarity
1528.6	35.7	39.2	50.0	70.0	7.1	24.2	Horizontal
1792.3	36.2	40.8	50.0	70.0	2.2	18.5	Horizontal
1625.8	33.6	38.0	50.0	70.0	9.7	24.5	Vertical
2137.9	38.2	42.7	50.0	70.0	6.6	19.1	Vertical

Remarks:
Calculated measurement uncertainty (30MHz – 1GHz): 4.6dB
(1GHz – 6GHz): 4.4dB
Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

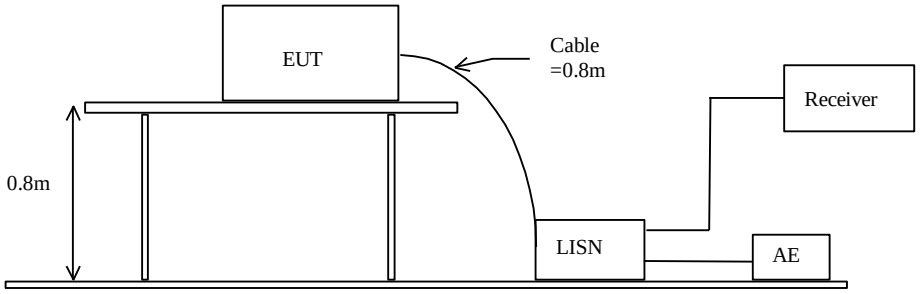
3.1.2 Conducted Emissions (150kHz to 30MHz)

Test Requirement:	EN 55022
Test Method:	EN 55022
Level:	Class B
Test Date(s):	2015-06-12
Mode of Operation:	Wireless mode

Test Method:

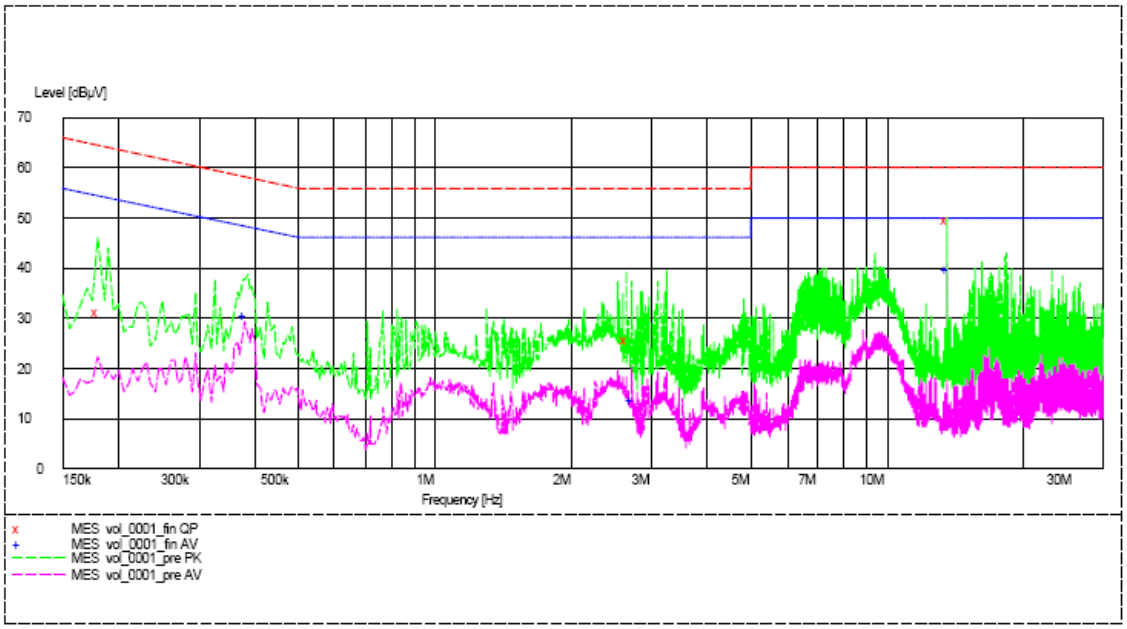
Initial measurements were performed in peak and average detection modes on the live line. Any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.
The test was performed in accordance with EN 55022.

Test Setup:



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

Results of Wireless mode (L): Pass
Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"
6/12/2015 3:41PM

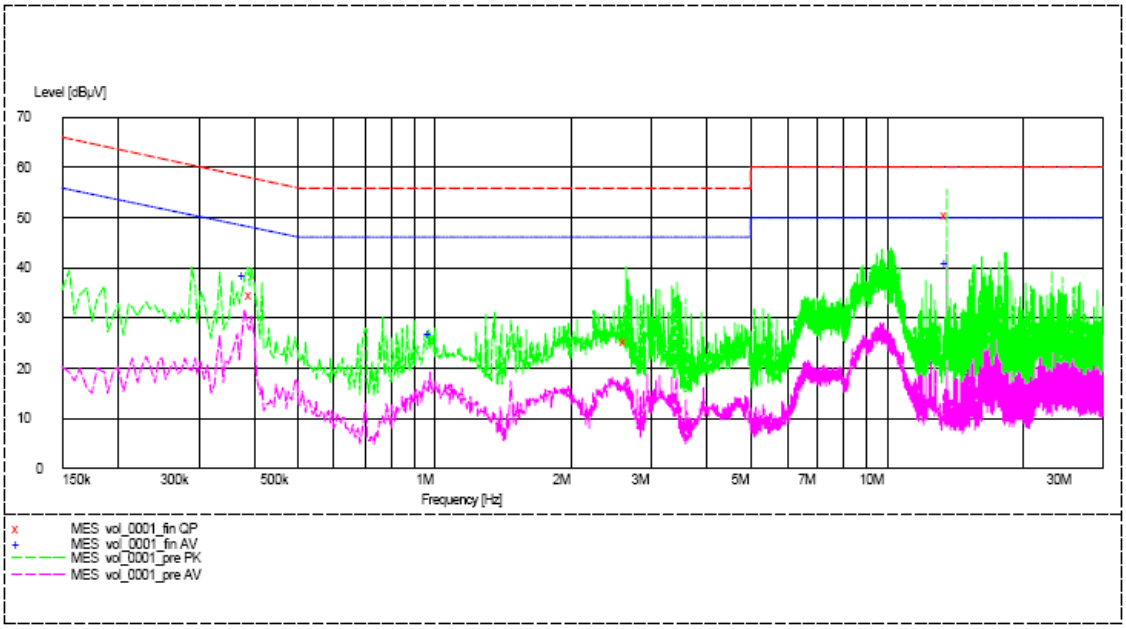
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.180000	31.30	9.7	65	33.1	L1	GND
2.655000	25.80	9.7	56	30.2	L1	GND
13.120000	49.40	9.8	60	10.6	L1	GND

MEASUREMENT RESULT: "vol_0001_fin AV"
6/12/2015 3:41PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.380000	30.80	9.6	48	17.5	L1	GND
2.720000	13.90	9.7	46	32.1	L1	GND
13.120000	39.90	9.8	50	10.1	L1	GND

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

Results of Wireless mode (N): Pass
Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"
6/12/2015 3:37PM

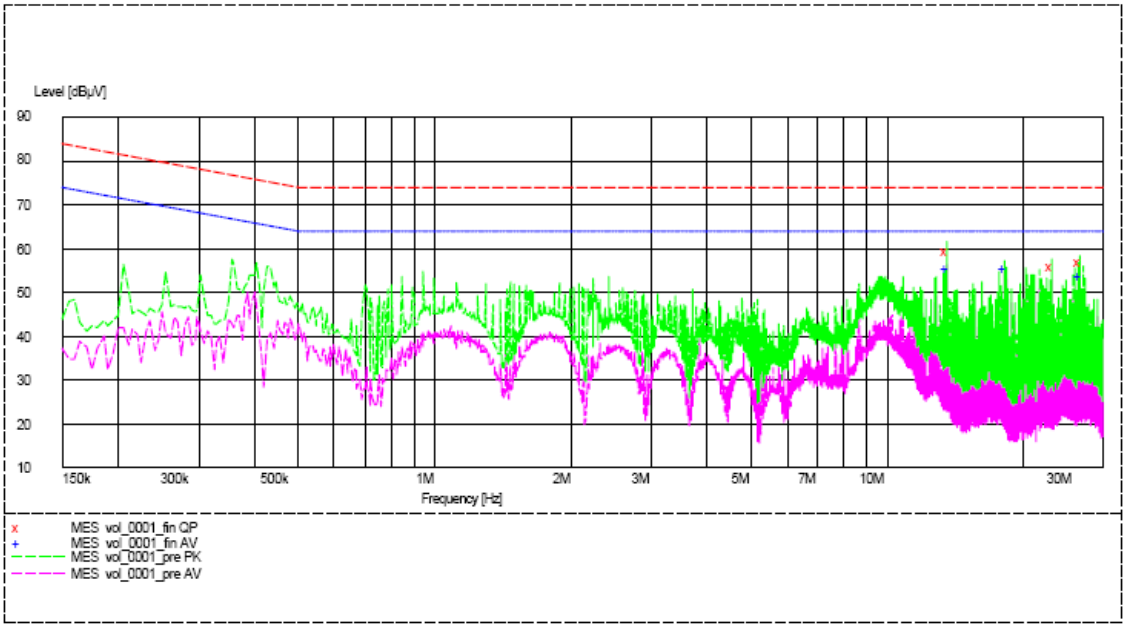
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.395000	34.40	9.6	58	23.6	N	GND
2.655000	25.50	9.7	56	30.5	N	GND
13.125000	50.70	9.8	60	9.3	N	GND

MEASUREMENT RESULT: "vol_0001_fin AV"
6/12/2015 3:37PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.380000	38.70	9.6	48	9.6	N	GND
0.980000	26.90	9.6	46	19.1	N	GND
13.125000	41.20	9.8	50	8.8	N	GND

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

Results of Wireless mode (Telecommunication port): Pass
Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"
6/12/2015 5:06PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
13.125000	59.50	10.2	74	14.5	---	---
23.130000	55.90	10.1	74	18.1	---	---
26.610000	57.10	10.1	74	16.9	---	---

MEASUREMENT RESULT: "vol_0001_fin AV"
6/12/2015 5:06PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
13.125000	55.60	10.2	64	8.4	---	---
18.245000	55.40	10.2	64	8.6	---	---
26.610000	53.90	10.1	64	10.1	---	---

Remark:
Calculated measurement uncertainty (0.15MHz-30MHz): 3.2dB

3.1.3 Harmonics Emissions on AC Supply

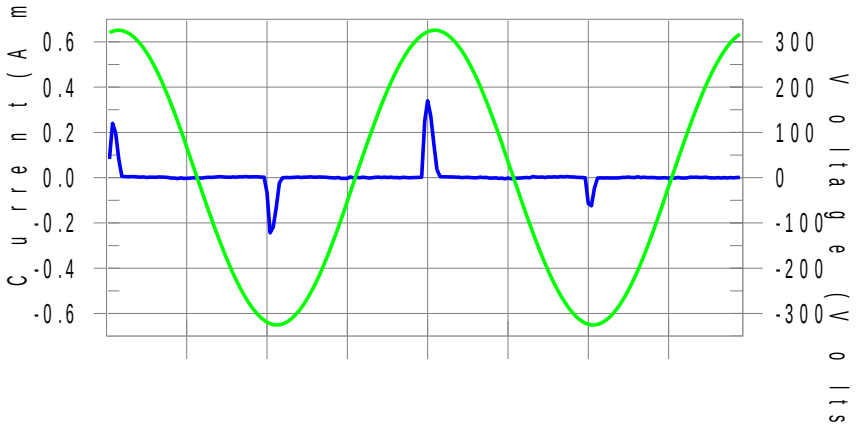
Test Requirement:	EN 61000-3-2
Test Method:	EN 61000-3-2
Level:	Class A
Test Date(s):	2015-06-17
Mode of Operation:	Wireless mode
Input Voltage:	230Va.c.

Test Method:
The test was performed in accordance with EN 61000-3-2.

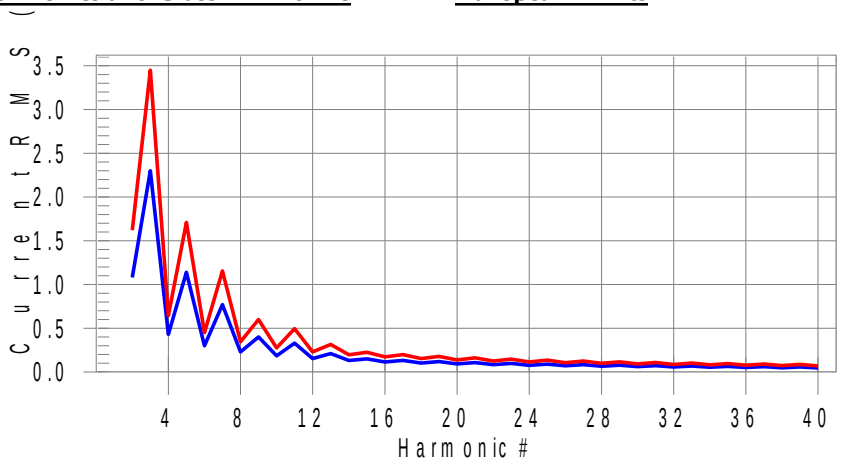
Results and limit line for Harmonics Emissions:
For limits for Harmonics Emission Test, please refer to limit lines (saw-tooth) in the following diagram.

Results: Pass
Please refer to the following table for individual results.

Current & voltage waveforms



Harmonics and Class A limit line **European Limits**



Remark:
Calculated measurement uncertainty: 7.1%

3.1.4 Emission for Fluctuations & Flicker

Test Requirement:	EN 61000-3-3
Test Method:	EN 61000-3-3
Level:	N/A
Test Date(s):	2015-06-17
Mode of Operation:	Wireless mode

Test Method:
The test was performed in accordance with EN 61000-3-3.

Limits for Flicker:
Please refer to the result table for details.

Results: Pass
Please refer to the following table for individual results.

Maximum Occurring Levels:

Pst:	0.064	Limit =	1.00	(The Highest Short Term Flicker Value)
Plt:	0.028	Limit =	0.65	(The Highest Long Term Flicker Value)
dc(%):	0.00	Limit =	3.30%	(The Highest Relative Steady State Voltage Change (1sec))
dmax:	0.00	Limit =	4.00%	(*The Highest Maximum Relative Voltage Change)
Tdt:	0.00	Limit =	500ms	(The Max Time (in milli-sec) that dt exceeds 3.3%)
Ut:	230.19			(EUT Test RMS Voltage)

Remark:
* - Some products may have more relax limits (refer to Clause 5 of EN 61000-3-3)
Calculated measurement uncertainty: 7.7%

3.2 Immunity

3.2.1 Susceptibility Performance Criteria

A	**Normal performance within the specification limits**
B	**Temporary degradation or loss of function or performance which is self-recoverable**
C	**Temporary degradation or loss of function or performance which requires operator intervention or system reset**
D	**Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data**

3.2.2 Electrostatic Discharge

Test Requirement:	EN 55024
Test Method:	EN 61000-4-2
Severity:	±4kV for Direct & Indirect Contact Discharge ±2kV, ±4kV, ±8kV for Air Discharge

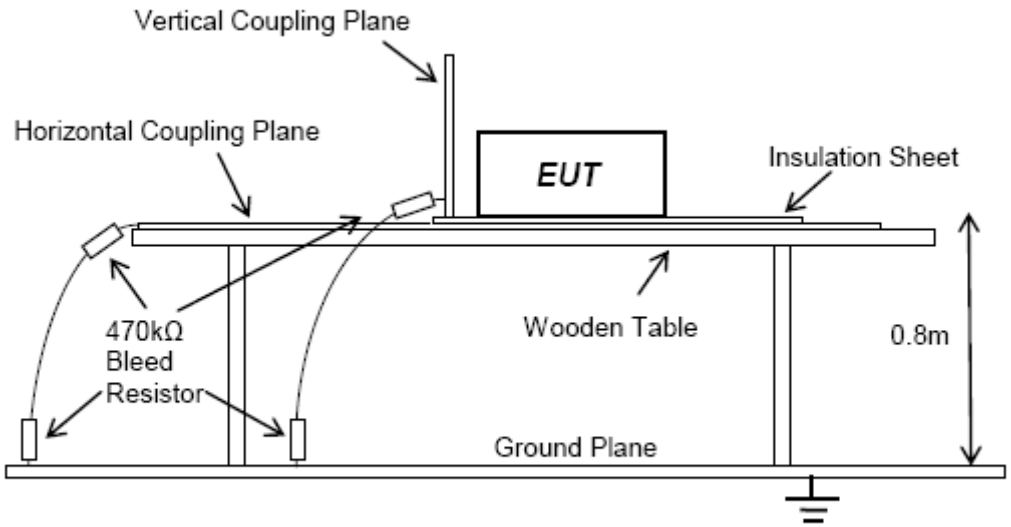
Performance Criterion Requirement: B

Temperature:	23 °C
Humidity:	56 %
Atmospheric Pressure:	101 kPa
Test Date(s):	2015-06-17
Mode of Operation:	Wireless mode

Test Method:
The test was performed in accordance with EN 61000-4-2.

Test Procedure:
The EUT is a USB HEADSET, the test was conducted during the on mode function to simulate the normal usage specified by the manufacturer.

Test Setup:



Severity Levels for Electrostatic Discharge:

Level	Test Voltage Direct & Indirect Contact Discharge [kV]	Test Voltage Air Discharge [kV]
1	±2kV	±2kV
2	±4kV	±4kV
3	±6kV	±8kV
4	±8kV	±15kV

Results of Wireless mode: Pass
Please refer to the following table for individual results.

Location	Discharge Method	Test Voltage	Individual Results	
			Pass	Failed
HCP [Horizontal Coupling Plane]	Indirect Contact	±4kV	☒	☐
VCP [Vertical Coupling Plane]	Indirect Contact	±4kV	☒	☐
Indicator light/Gap	Air	±2kV, ±4kV, ±8kV	☒	☐

***EUT Grounding	☐ Grounded	☒ Ungrounded

Remarks:
***For ungrounded EUT, the charge on the EUT shall be removed prior to each applied ESD pulse
Calculated measurement uncertainty: 7.1%

3.2.3 Radiated Immunity [80MHz to 1000MHz]

Test Requirement:	EN 55024
Test Method:	EN 61000-4-3
Severity:	Level 2 [3V/m]
Modulation:	80% 1kHz AM

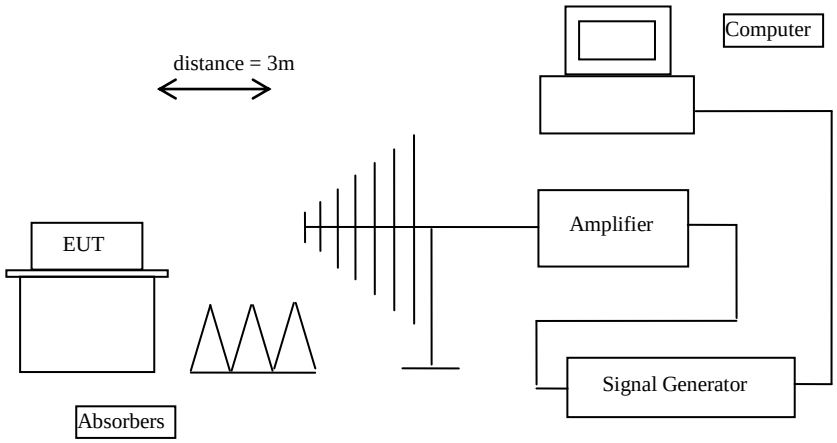
Performance Criterion Requirement: A

Temperature:	23 °C
Humidity:	53 %
Test Date(s):	2015-06-17
Mode of Operation:	Wireless mode

Test Method:
The test was performed in accordance with EN 61000-4-3.

Test Procedure:
The EUT is a USB HEADSET, the test was conducted during the on mode function to simulate the normal usage specified by the manufacturer.

Test Setup:



Severity Levels for Radiated Immunity:

Level	Field Strength [V/m]
1	1
2	3
3	10

Results of Wireless mode: Pass
Please refer to the following table for individual results.

Frequency (MHz)	Face	Polarity	Level (V/m)	Dwell Time (s)	Sweep rate (%)	Individual Results	
						Pass	Failed
80-1000	0^o	Horizontal	3	3	1	☒	☐
80-1000	90^o	Horizontal	3	3	1	☒	☐
80-1000	180^o	Horizontal	3	3	1	☒	☐
80-1000	270^o	Horizontal	3	3	1	☒	☐
80-1000	0^o	Vertical	3	3	1	☒	☐
80-1000	90^o	Vertical	3	3	1	☒	☐
80-1000	180^o	Vertical	3	3	1	☒	☐
80-1000	270^o	Vertical	3	3	1	☒	☐

Remarks:
The dwell time at each frequency is according to the standard being applied and the basic standard
Calculated measurement uncertainty: 1.74dB

3.2.4 Electrical Fast Transients on AC Supply

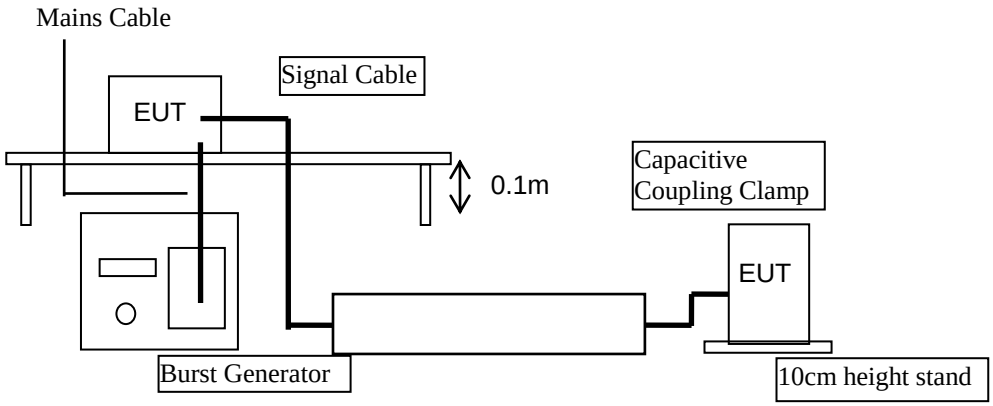
Test Requirement:	EN 55024
Test Method:	EN 61000-4-4
Severity:	Level 2 on AC [±1kV]

Performance Criterion Requirement: B

Temperature:	23 °C
Humidity:	52 %
Atmospheric Pressure:	101 kPa
Test Date(s):	2015-06-17
Mode of Operation:	Wireless mode

Test Method:
The test was performed in accordance with EN 61000-4-4.

Test Setup:



Severity Levels for Electrical Fast Transient:

Level	On power supply port, PE		On I/O (Input/Output) signal, data and control ports	
	Voltage peak [kV]	Repetition rate [kHz]	Voltage peak [kV]	Repetition rate [kHz]
1	0.5	5.0	0.25	5.0
2	1.0	5.0	0.50	5.0
3	2.0	5.0	1.00	5.0
4	4.0	5.0	2.00	5.0

Results of Wireless mode: Pass
Please refer to the following table for individual results.

Conductor	Polarity & Level	Duration/Polarity (s)	Individual Results	
			Pass	Failed
Live- Neutral	±1kV	120	☒	☐

Remark:
Calculated measurement uncertainty: 7.1%

3.2.5 Surge Immunity on AC Supply

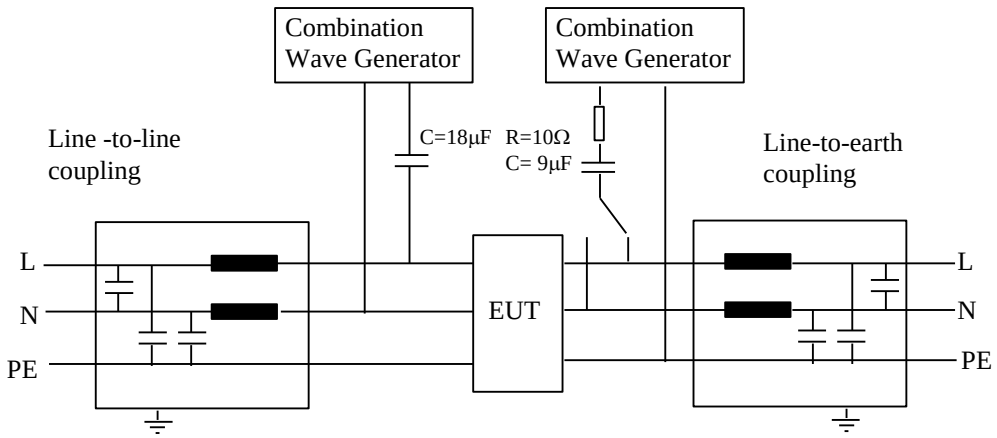
Test Requirement:	EN 55024
Test Method:	EN 61000-4-5
Severity:	Level 2 - ±1kV (LAN port, between live & neutral)

Performance Criterion Requirement: B

Temperature:	23 °C
Humidity:	53 %
Atmospheric Pressure:	101 kPa
Test Date(s):	2015-06-17
Mode of Operation:	Wireless mode

Test Method:
The test was performed in accordance with EN 61000-4-5.

Test Setup:



Severity Levels for Surge Immunity:

Level	Open-circuit test voltage ±10% kV
1	0.5
2	1.0
3	2.0
4	4.0

Results of Wireless mode: Pass
Please refer to the following table for individual results

Conductor	Level & Polarity kV	No. of Surge	Phase Angle	Surge Interval (s)	Individual Results	
					Pass	Failed
Live - Neutral	±1.0	5	0^o	60s	☒	☐
			90^o		☒	☐
			180^o		☒	☐
			270^o		☒	☐

Remarks:
Calculated measurement uncertainty: 7.1%

3.2.6 Continuous RF Immunity on AC Supply (150kHz to 80MHz)

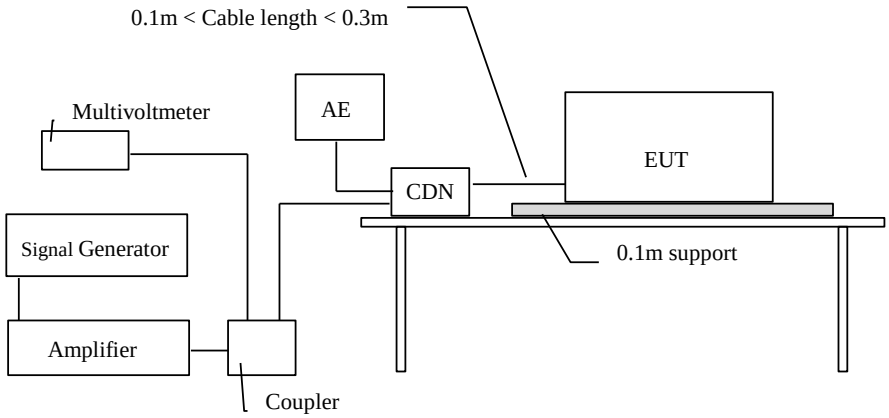
Test Requirement:	EN 55024
Test Method:	EN 61000-4-6
Severity:	Level 2 - 3Vrms(emf) with 80% 1kHz AM

Performance Criterion Requirement: A

Temperature:	22 °C
Humidity:	53 %
Atmospheric Pressure:	101 kPa
Test Date(s):	2015-06-17
Mode of Operation:	Wireless mode

Test Method:
The test was performed in accordance with EN 61000-4-6.

Test Setup:



Severity Levels for Continuous RF Immunity:

Frequency range 150kHz - 80MHz		
Level	Voltage level (emf)	
	U_o [dB(μV)]	U_o [V]
1	120	1
2	130	3
3	140	10

Results of Wireless mode: Pass
Please refer to the following table for individual results.

Frequency (MHz)	Level (Vrms)	Dwell Time (s)	Sweep rate (%)	Individual Results	
				Pass	Failed
150kHz – 80MHz	3	3	1	☒	☐

Remark:
Calculated measurement uncertainty: 2.39dB

3.2.7 Voltage Dips, Interruptions and Variations on AC Supply

Test Requirement:	EN 55024
Test Method:	EN 61000-4-11
Severity:	[0, 70]% of U_T
Performance Criterion Requirement:	**B** for 0% of U_T for 0.5 period **C** for other specifications
Temperature:	23 ^oC
Humidity:	53 %
Atmospheric Pressure:	101 kPa
Test Date(s):	2015-06-17
Mode of Operation:	Wireless mode

Test Method:
The test was performed in accordance with EN 61000-4-11.

Severity Levels for voltage dips, short interruptions and voltage variations immunity:

Level	Voltage dip and short interruptions	Duration (period)
0	100	0.5
70	30	25
0	100	250

Results of Wireless mode: Pass
Please refer to the following table for individual results.

Phase	Test Level (% of U_T)	Duration (period)	Individual Results	
			Pass	Failed
0^o followed by 180^o	0	0.5	☒	☐
0^o followed by 180^o	70	25	☒	☐
0^o followed by 180^o	0	250	☒	☐

Remarks:
Calculated measurement uncertainty: 7.1% of tested voltage
U_T - The nominal supply voltage

APPENDIX A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD022	EMI Test Receiver	ROHDE & SCHWARZ	ESCS 30	100314	2015.03.24
EMD061	Biconilog Antenna	ETS.LINDGREN	3142C	00060439	2014.11.29
EMD084	MULTI-DVICE CONTROLLER	ETS.LINDGREN	2090	00060107	N/A
EMD088	Video Contol Unit	ETS.LINDGREN	Y21953A	2601073	N/A
EMD093	Monitor	ViewSonic	VA9036	Q8X064201876	N/A
EMD102	Intelligent Frequency	Ainuo lnstrument Co., Ltd	AN97005SS	79707454	N/A
EMD105	FACT-3 EMC Chamber	ETS.LINDGREN	FACT-3	3803	N/A
EMD131	Standard Gain Horn Antenna (18GHZ-26.5GHZ）	Chengdu AINFO lnc.	JXTXLB-42-15-C-KF	J2021100721001	2015.06.27
EMD-S01	RE Test software	ROHDE & SCHWARZ	ESxS-K1	V2.10	N/A
EMD-S02	RE Test software	AUDIX	e3	V9.14c31	N/A

Conducted Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD003	IMPULSEGRENZER PULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	100071	2015.3.24
EMD004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ESH3-Z5	100102	2015.3.24
EMD036	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB26	100388	2015.03.24
EMD041	TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	100261	2015.03.24
EMD103	INTELLIGENT FREQUENCY	AINUO LNSTRUMENT CO., LTD	AN97005SS	79707455	N/A
EMD106	SHIELDING ROOM #1	ETS.LINDGREN	RFD-100	3802	N/A
EMD-S03	CE Test software	ROHDE & SCHWARZ	ESIB-K1	V1.20	N/A

HARMONICS/ FLICKER

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD013	AC POWER SOURCE	SCHAFFNER	NSG1007	54964	2015.3.24
EMD014	HARMONIC & FLICKER METER	SCHAFFNER	CCN1000	72104	2015.3.24
EMD-S05	Harmonics/ Flicker Test software	TESEQ	Win2100V3	V3.2.0.35	N/A

Electro Static Discharge

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD007	HIGH VOLTAGE OUTPUT ±30KV MAX	KIKUSUI	KES4021	LG001717	2014.11.25
EMD034	DEHUMIDIFIER	KAWASIMA ELECTRICAL APPLIANCE CO.,LTD	DH-820H	N/A	N/A
EMD100	THERMOHYGROGRAPH	SATO KEIRYOKI MFG.CO.,LTD.	7210-00	1633581	2015.08.11
EMD109	BAROGRAPH	SATO KEIRYOKI MFG.CO.,LTD.	NSII-BQ	567719	2014.12.03
EMD139	ESD Simulator	TESEQ	NSG 438	873	2014.11.17

List of Measurement Equipment

Radiated Field Immunity

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD111	Power meter	ROHDE & SCHWARZ	NRVD	102051	2015.3.24
EMD137	Signal Generator	ROHDE & SCHWARZ	SMB100A	1406600K02-104532-DF	2015.03.24
EMD060	Biconilog Antenna	ETS.LINDGREN	3142C	00060445	2014.11.15
EMD063	Power Amplifier	BONN ELEKTRONIK	BLWA0840-50/30D	066454B	2015.3.24
EMD064	Power Amplifier	BONN ELEKTRONIK	BLWA0810-250/100D	066454A	2015.3.24
EMD-S07	RI Test software	ROHDE & SCHWARZ	EMC32	V8.40.0	N/A

EFT /BURST

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD053	TRANSIENT IMMUNITY TEST SYSTEM	EMC-PARTNER	TRANSIENT2000	845	2015.03.24
EMD-S08	EFT Test software	EMC PARTNET	Test-Manager	V1.71	N/A

SURGE IMMUNITY

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD053	TRANSIENT IMMUNITY TEST SYSTEM	EMC-PARTNER	TRANSIENT2000	845	2015.03.24
EMD-S08	SURGE Test software	EMC PARTNET	Test-Manager	V1.71	N/A

INJECTED CURRENT IMMUNITY

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD023	DUAL DIRECTIONAL COUPLER	AMPLIFIER RESEARCH	DC2600A	308682	2015.3.24
EMD024	AMPLIFIER	AMPLIFIER RESEARCH	75A250A	308682	2015.3.24
EMD111	POWER METER	ROHDE & SCHWARZ	NRVD	102051	2015.3.24
EMD026	SIGNAL GENERATOR	ROHDE & SCHWARZ	SML01	102439	2015.3.24
EMD029	COUPLING DECOUPLING NETWORK	FISCHER CUSTOM COMMUNICATIONS INC	30W1000B	4022	2015.3.24
EMD-S09	CI Test software	ROHDE & SCHWARZ	EMC32	V5.20.0	N/A

VOLTAGE DIP

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD053	TRANSIENT IMMUNITY TEST SYSTEM	EMC-PARTNER	TRANSIENT2000	845	2015.03.24
EMD-S08	DIPS Test software	EMC PARTNET	Test-Manager	V1.71	N/A

Remark:
N/A Not Applicable

APPENDIX B

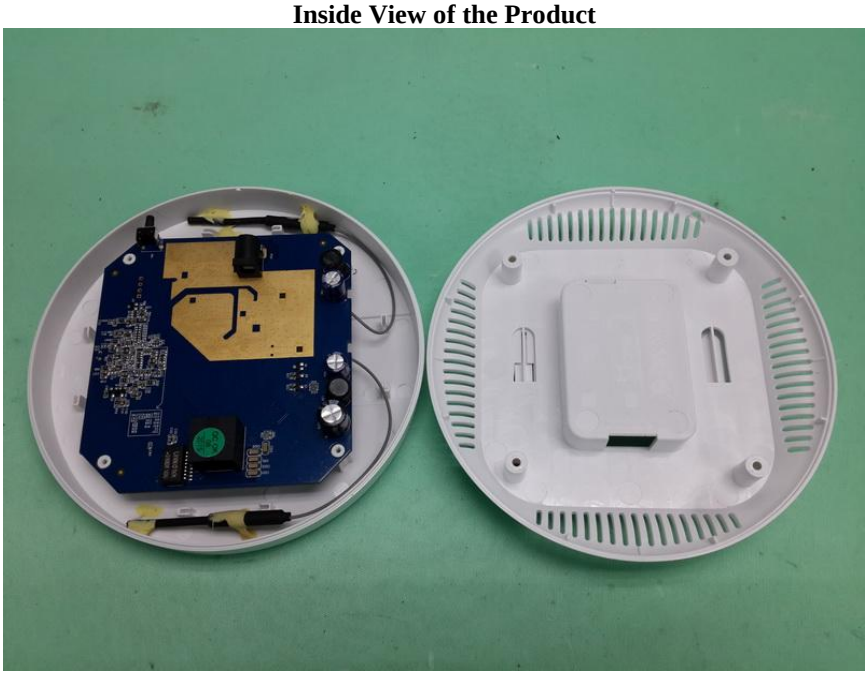
Photograph (S) Of Product

Front View of the Product

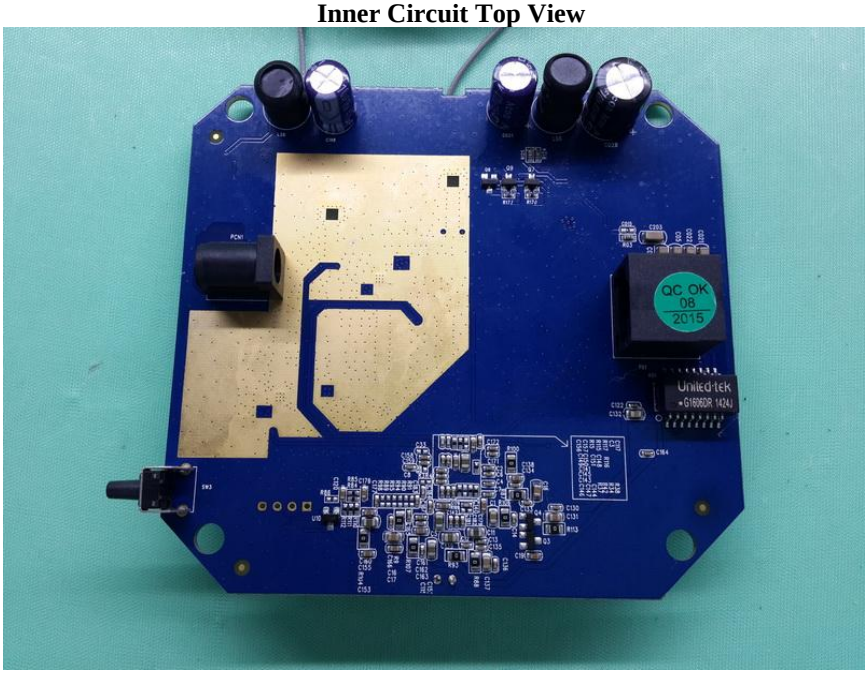
Rear View of the Product

Photograph (S) Of Product

Inside View of the Product

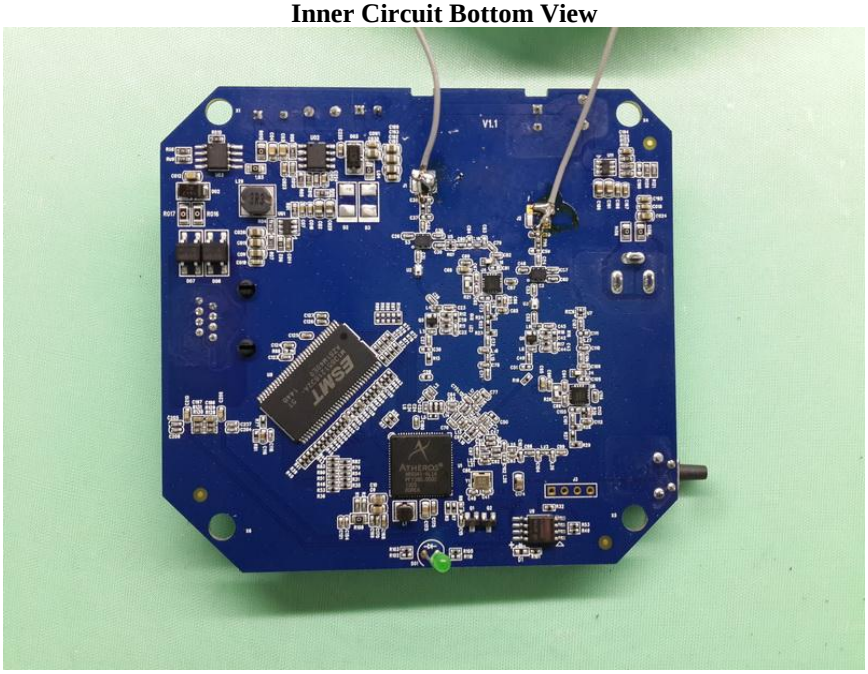


Inner Circuit Top View

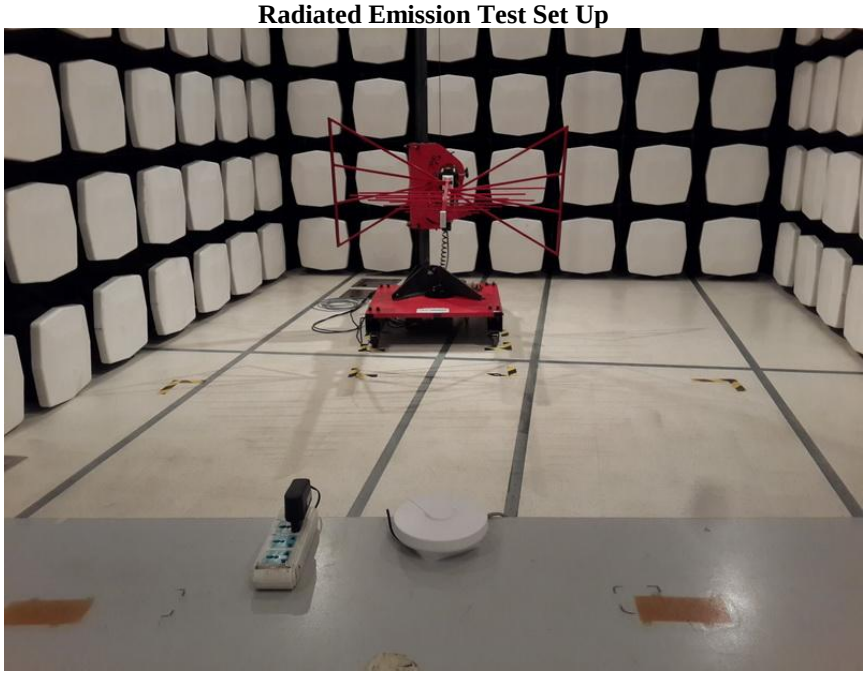


Photograph (S) Of Product

Inner Circuit Bottom View

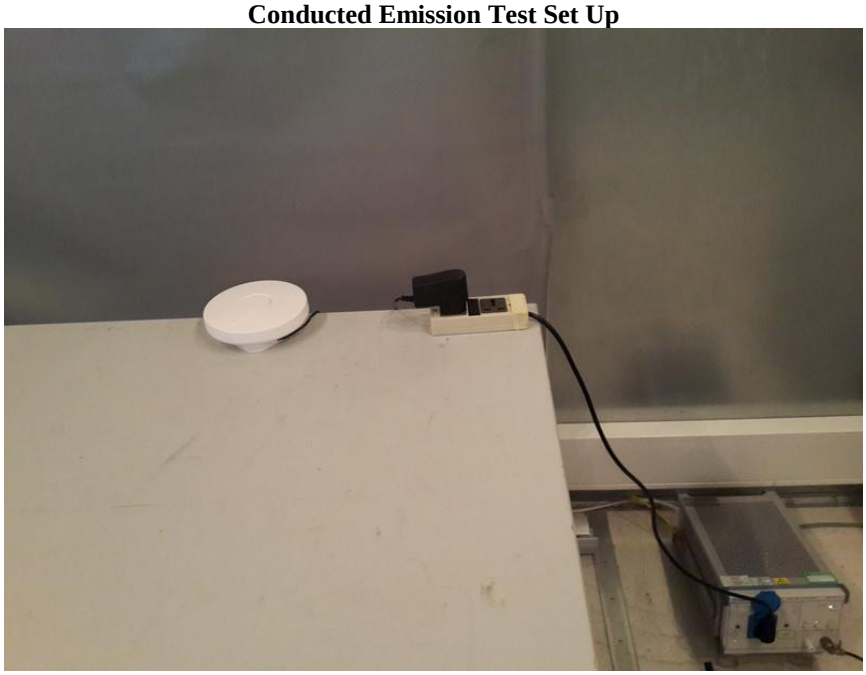


Radiated Emission Test Set Up

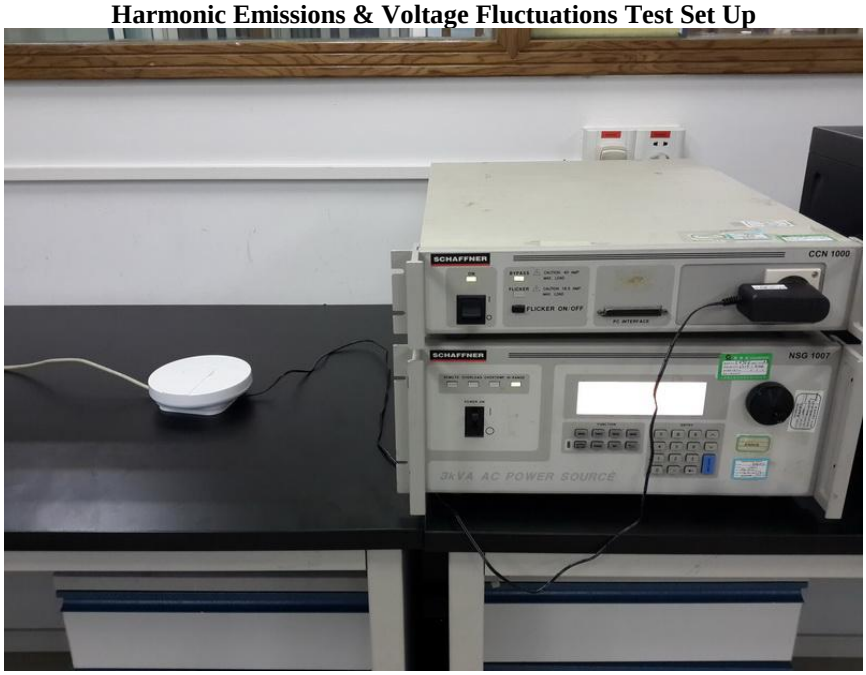


Photograph (S) Of Product

Conducted Emission Test Set Up

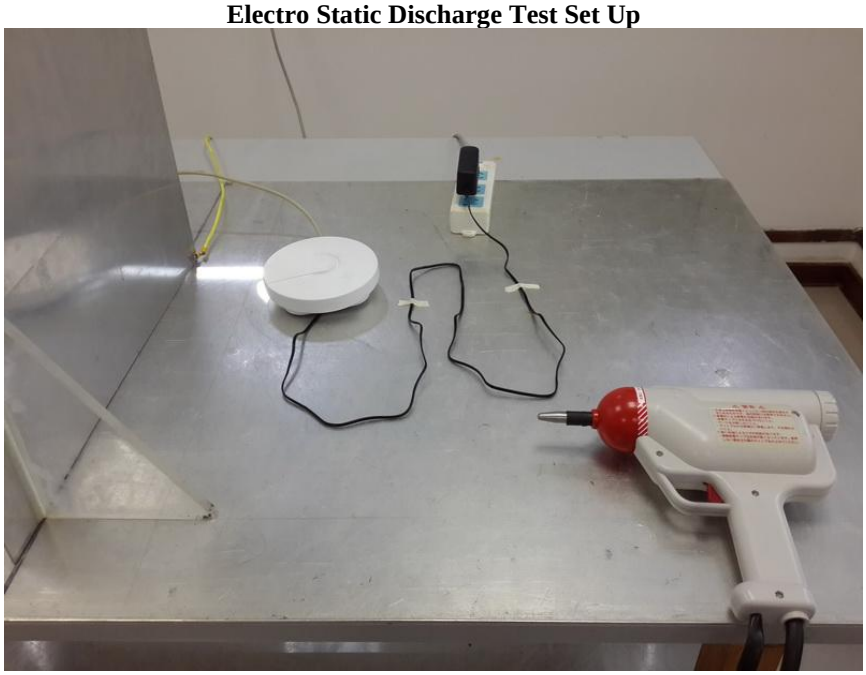


Harmonic Emissions & Voltage Fluctuations Test Set Up

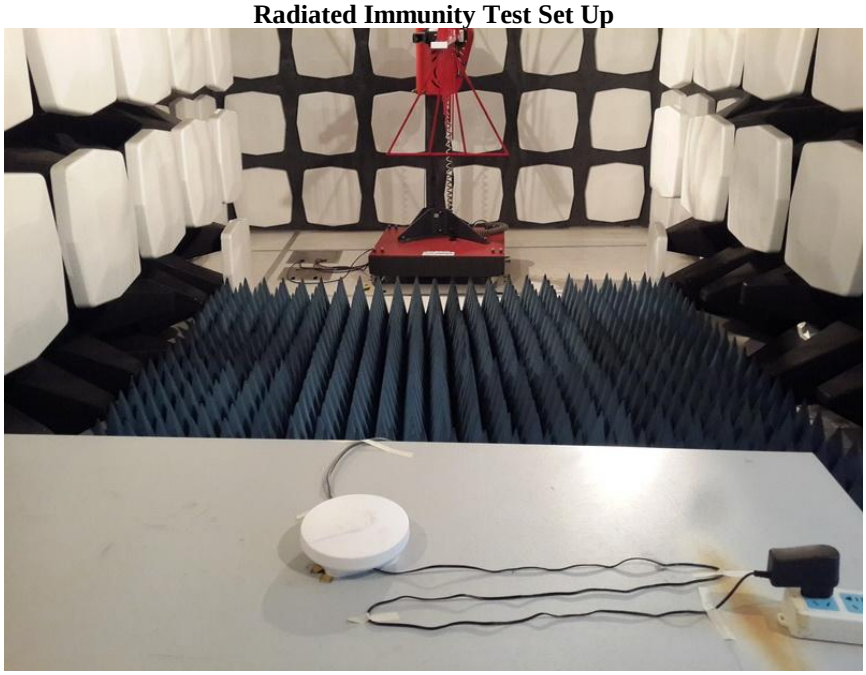


Photograph (S) Of Product

Electro Static Discharge Test Set Up

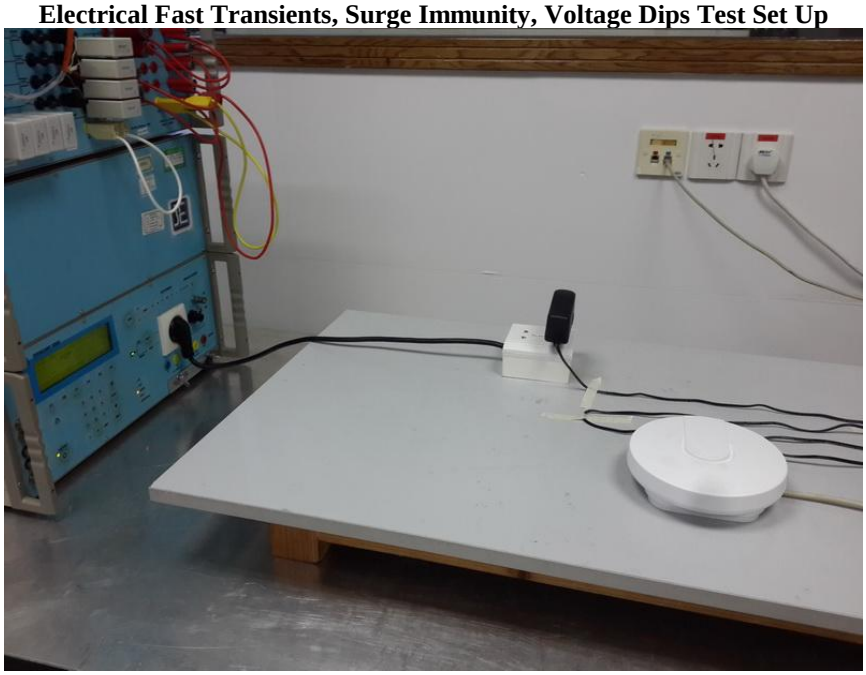


Radiated Immunity Test Set Up

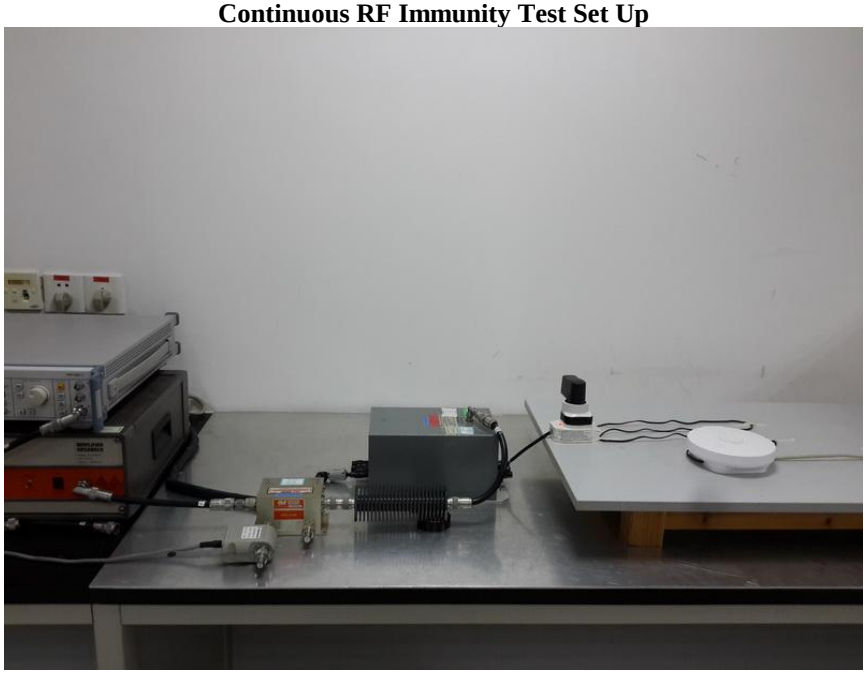


Photograph (S) Of Product

Electrical Fast Transients, Surge Immunity, Voltage Dips Test Set Up



Continuous RF Immunity Test Set Up



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

STC 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.