2/F., Garment Centre,
576 Castle Peak Road, Kowloon,
Hong Kong SAR, China.

Telephone: (852) 2173 8888
Facsimile: (852) 2785 5487
www.intertek.com

TEST REPORT

EMC VERIFICATION SUMMARY
Pursuant to EMC Directive 2014/30/EU

Report No.:	21010512HKG-001
Company:	Click & Grow OÜ Paju 2, 50603 Tartu, Estonia
Equipment Under Test (EUT):	
Product Description:	Plant Growing Appliance by LED Lamp for Domestic Use
Model:	SG3
Sample Receipt Date:	13 Jan 2021
Test Conducted Date:	13 Jan 2021 to 30 Jan 2021
Issue Date:	01 Feb 2021
Test Site Location:	1. For Radiated Emission Test: HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong SAR, China. 2. For Other Test: 2nd Floor, Garment Centre,576 Castle Peak Road, Kowloon, Hong Kong SAR, China.
Relevant Standard(s):	EN IEC 55015:2019+A11:2020 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61547:2009 (EN 61000-4-2:2009) EN 61547:2009 (EN 61000-4-3:2006+A1) EN 61547:2009 (EN 61000-4-4:2004) EN 61547:2009 (EN 61000-4-5:2006) EN 61547:2009 (EN 61000-4-6:2009) EN 61547:2009 (EN 61000-4-11:2004)
Remark:	Test was conducted by client submitted sample. The submitted sample as received complied with EMC requirement.

This test report is issued to the Company indicated based on the request of the Applicant of the product mentioned in this report.

Prepared and Checked by:

Signed on File
Lai Siu Ming, Henry
Engineer

Approved by:

Digitally signed by Chow Chi Ming, Billy
DN: cn=Chow Chi Ming, Billy, o=Intertek Testing Services Hong Kong Ltd, ou, email=billy.chow@intertek.com, c=HK

Chow Chi Ming, Billy
Manager

TEST REPORT

EMC RESULTS CONCLUSION (WITH JUSTIFICATION)

RE: EMC Testing Pursuant to EMC Directive 2014/30/EU Performed On the Plant Growing Appliance by LED Lamp for Domestic Use,
Model: SG3

We tested the Plant Growing Appliance by LED Lamp for Domestic Use, Model: SG3, to determine if it was in compliance with the relevant EN standards as marked on the EMC Verification Summary. We found that the unit met the requirement of EN IEC 55015, EN 61000-3-2, EN 61000-3-3 and EN 61547 standards when tested as received.

The production units are required to conform to the initial sample as received when the units are placed on the market.

Decision Rule for compliance: For FCC/IC standard, the measured value must be within the limits of applicable standard without accounting for the measurement uncertainty. For EN/IEC/HKTA/HKTC standard, conformity rules will be used as per standard directly excepted EN/IEC 61000-3-2, EN/IEC 61000-3-3, HKTA1004, HKCA1008, HKTA1019, HKTA1020, HKTA1041 and HKTA1044. For these excepted or not mentioned standards, Cl 4.2.2 of ILAC-G8:09/2019 decision rules will be reference and guard band will be equal to our measurement uncertainty with 95% confidence level (k=2). In case, the measured value is within guard band region, undetermined decision will be used.

Standards against which no testing of the captioned model has been conducted and the engineering judgement is stated as follows:

EN 61000-3-2: According to EN 61000-3-2, no limit apply to the non-discharge lighting equipment with rated power less than or equal to 25W. Therefore, this equipment is deemed to fulfil this standard without any testing.

TEST REPORT

LABORATORY MEASUREMENTS

CONFIGURATION INFORMATION

Equipment Under Test (EUT):	Plant Growing Appliance by LED Lamp for Domestic Use
Model:	SG3
Serial No.:	Not Labelled
Support Equipment:	N/A
Specification of Lamp:	N/A
Cables:	N/A
Adaptor:	Model: YL121-1201000HV Input: 100-240VAC 50/60Hz Output: 12VDC 1A (Provided by Applicant)
Rated Voltage:	100-240VAC 50/60Hz

TEST REPORT

EN IEC 55015 (EN 55032): Class B Radiated Emission Test

Model No.: SG3
Worst Case Operating Mode: Light On

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EMC701	Multi-functional Anechoic Chamber (SVSWR)	Albatross	Nil	B83117-C1634-T161
EMC700	Low-loss RF and Microwave Coaxial cable–12m	Huber+Suhner	SF118/11N/11N/12000MM	800018/118
EMC567	Test Receiver	R & S	ESU26	100050
EMC577	Bi-conical Antenna	R & S	HK116	100242
EMC039	Log Periodic Antenna	R & S	HL223	841516/019
EMC586	Double-Ridged Waveguide Horn	EMCO	3117	00094998
EMC660	Microwave Preamplifier	COM-POWER Corporation	PAM-118A	551091

Data Table

Polarization	Frequency (MHz)	Net at 3m (dBµV/m)	Calculated Net at 10m (dBµV/m)	Limit at 10m (dBµV/m)	Margin (dB)
V	42.444	18.2	7.7	30	-22.3
H	133.870	22.3	11.8	30	-18.3
V	143.900	22.5	12.0	30	-18.0
V	394.480	17.1	6.6	37	-30.4
H	649.200	22.4	11.9	37	-25.1
H	989.920	26.0	15.5	37	-21.6

Notes:
1. Quasi-Peak Detector Data
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30 MHz to 1000 MHz.
4. Only emissions significantly above equipment noise floor are reported.
5. Uncertainty : ± 6.1dB at a Level of Confidence of 95%.

Ctrl. No.: 3.1

TEST REPORT

EN IEC 55015 Radiated Electromagnetic Disturbance Test

Model No.: SG3
Worst Case Operating Mode: Light On

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-3095	EMI Test Receiver	ROHDESCHWARZ	ESCI	101430
EW-3314	Triple Loop Antenna	ROHDESCHWARZ	HM020	100999

Test Data

X-axis

Frequency range MHz	Disturbance level dBµA	Permitted limit for 2m diameter loop dBµA[a]
0.009 - 0.07	All measured data were found below limit	88
0.07 - 0.15		88 - 58[b]
0.15 - 3.0		58 - 22[b]
3.0 - 30		22

a. At the transition frequency, the lower limit applies.
b. Decreasing linearly with the logarithm of the frequency.

Y-axis

Frequency range MHz	Disturbance level dBµA	Permitted limit for 2m diameter loop dBµA[a]
0.009 - 0.07	All measured data were found below limit	88
0.07 - 0.15		88 - 58[b]
0.15 - 3.0		58 - 22[b]
3.0 - 30		22

a. At the transition frequency, the lower limit applies.
b. Decreasing linearly with the logarithm of the frequency.

Z-axis

Frequency range MHz	Disturbance level dBµA	Permitted limit for 2m diameter loop dBµA[a]
0.009 - 0.07	All measured data were found below limit	88
0.07 - 0.15		88 - 58[b]
0.15 - 3.0		58 - 22[b]
3.0 - 30		22

a. At the transition frequency, the lower limit applies.
b. Decreasing linearly with the logarithm of the frequency.

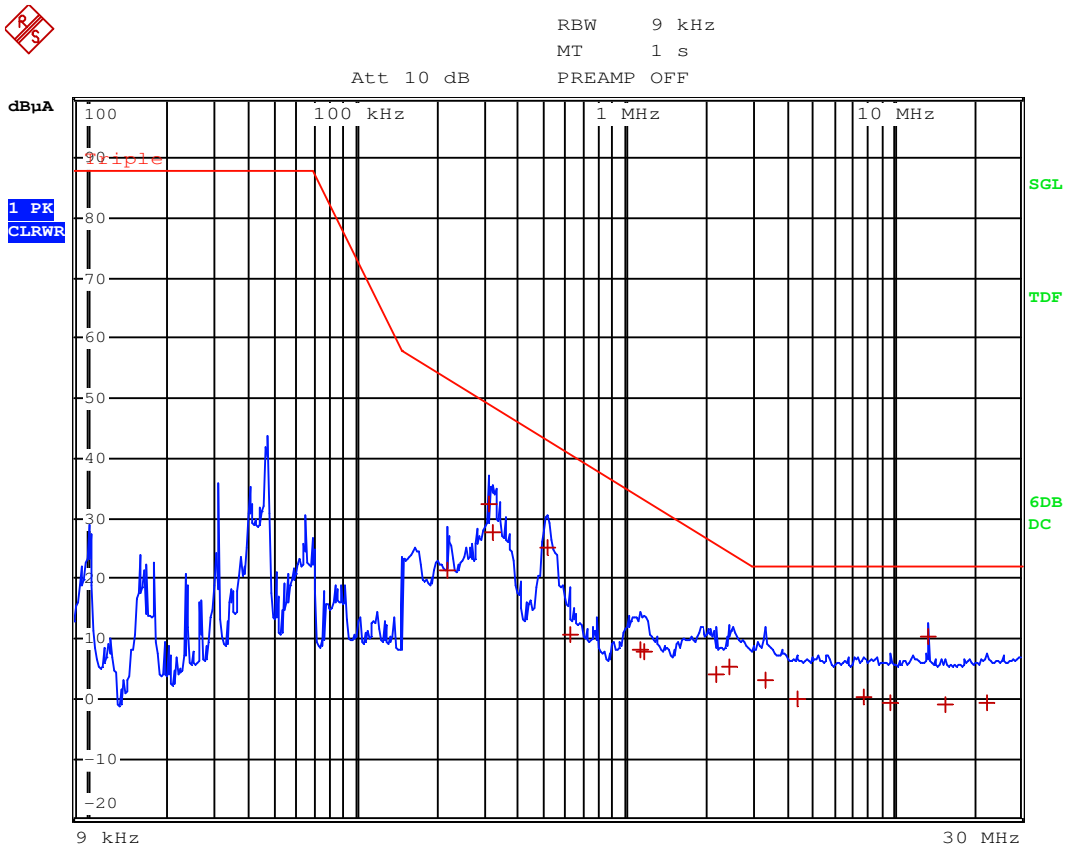
Notes: 1. Three graphs of Ctrl. No.: 3.2.1, 3.2.3 and 3.2.5 for X-axis, Y-axis and Z-axis and Three tables of Ctrl. No.: 3.2.2, 3.2.4 and 3.2.6 for X-axis, Y-axis and Z-axis are attached respectively.
2. Uncertainty: ±2.35dBµA at a Level of Confidence of 95%.

Ctrl. No.: 3.2

TEST REPORT

Model No.: SG3
Worst Case Operating Mode: Light On

X-axis



20JAN-X

Date: 20.JAN.2021 15:27:05

Ctrl. No.: 3.2.1

TEST REPORT

Model No.: SG3
Worst Case Operating Mode: Light On

X-axis

EDIT PEAK LIST (Final Measurement Results)

Trace1: Triple
Trace2: ---
Trace3: ---

	TRACE	FREQUENCY	LEVEL dBµA	DELTA LIMIT dB
1	Quasi Peak	217.5 kHz	21.57	-31.96
1	Quasi Peak	312 kHz	32.57	-16.62
1	Quasi Peak	321 kHz	27.67	-21.18
1	Quasi Peak	519 kHz	25.19	-17.89
1	Quasi Peak	622.5 kHz	10.76	-30.13
1	Quasi Peak	1.149 MHz	8.25	-25.27
1	Quasi Peak	1.176 MHz	7.99	-25.25
1	Quasi Peak	2.1885 MHz	3.94	-21.84
1	Quasi Peak	2.4765 MHz	5.36	-18.93
1	Quasi Peak	3.372 MHz	3.21	-18.78
1	Quasi Peak	4.4115 MHz	-0.01	-22.01
1	Quasi Peak	7.7595 MHz	0.44	-21.55
1	Quasi Peak	9.7125 MHz	-0.57	-22.57
1	Quasi Peak	13.56 MHz	10.34	-11.65
1	Quasi Peak	15.7155 MHz	-0.93	-22.93
1	Quasi Peak	22.497 MHz	-0.78	-22.78

20JAN-X

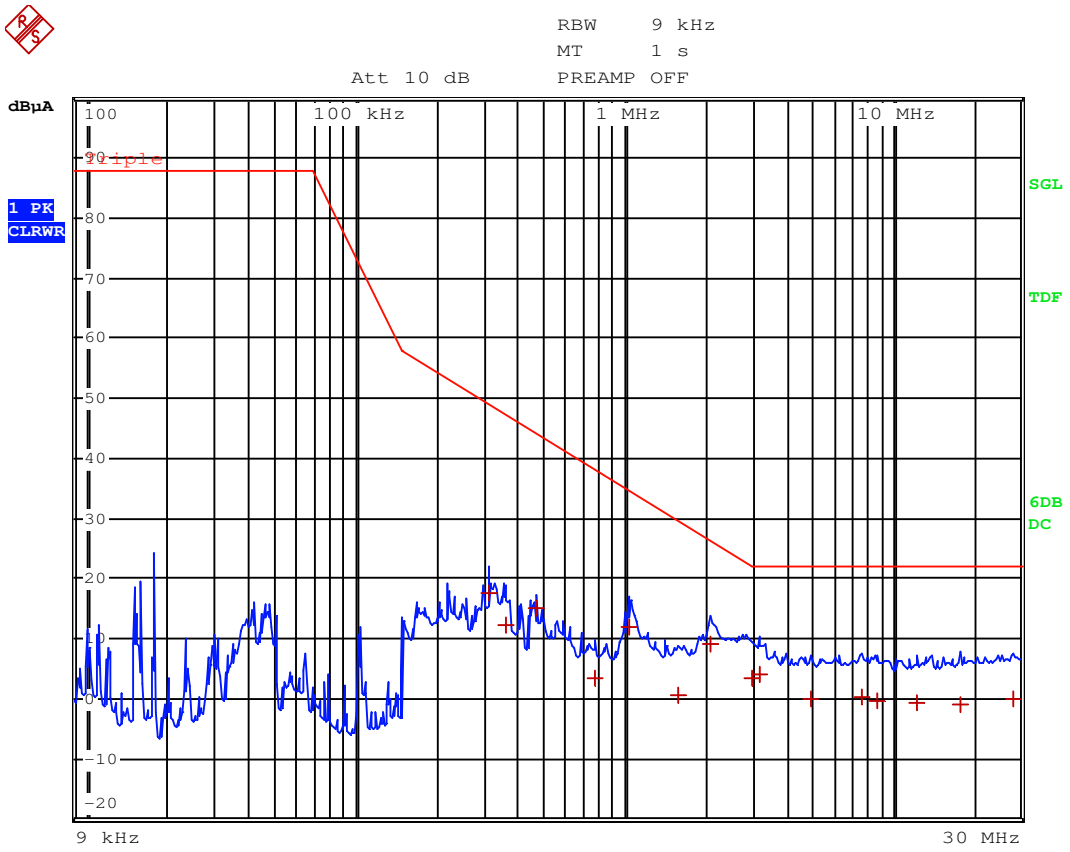
Date: 20.JAN.2021 15:24:26

Ctrl. No.: 3.2.2

TEST REPORT

Model No.: SG3
Worst Case Operating Mode: Light On

Y-axis



20JAN-Y

Date: 20.JAN.2021 15:54:45

Ctrl. No.: 3.2.3

TEST REPORT

Model No.: SG3
Worst Case Operating Mode: Light On

Y-axis

EDIT PEAK LIST (Final Measurement Results)

Trace1: Triple
Trace2: ---
Trace3: ---

TRACE		FREQUENCY	LEVEL dBµA	DELTA LIMIT dB
1	Quasi Peak	312 kHz	17.71	-31.48
1	Quasi Peak	361.5 kHz	12.40	-35.02
1	Quasi Peak	465 kHz	15.25	-29.14
1	Quasi Peak	780 kHz	3.41	-34.76
1	Quasi Peak	1.041 MHz	11.93	-22.78
1	Quasi Peak	1.59 MHz	0.59	-29.03
1	Quasi Peak	2.085 MHz	9.04	-17.32
1	Quasi Peak	2.9895 MHz	3.52	-18.52
1	Quasi Peak	3.21 MHz	4.11	-17.88
1	Quasi Peak	4.965 MHz	-0.11	-22.11
1	Quasi Peak	7.6695 MHz	0.28	-21.71
1	Quasi Peak	8.7405 MHz	-0.16	-22.16
1	Quasi Peak	12.2595 MHz	-0.67	-22.67
1	Quasi Peak	17.745 MHz	-0.88	-22.88
1	Quasi Peak	27.978 MHz	-0.06	-22.06

20JAN-Y

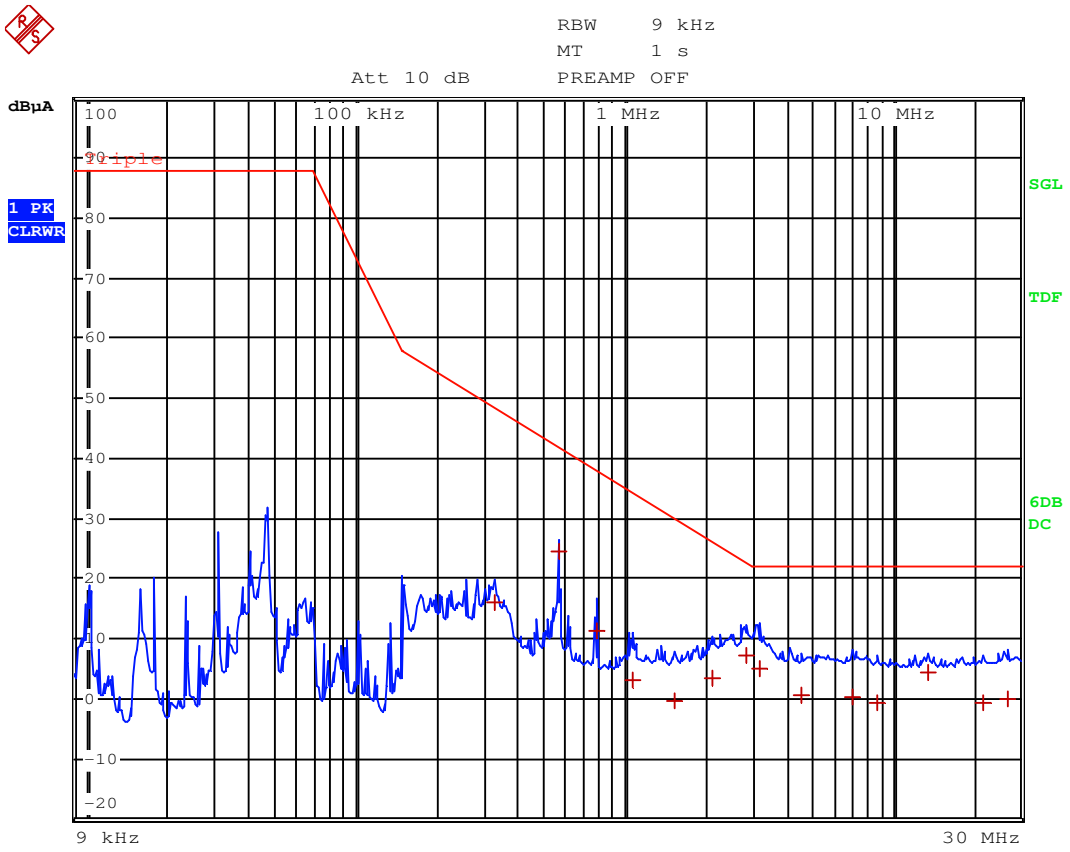
Date: 20.JAN.2021 15:45:23

Ctrl. No.: 3.2.4

TEST REPORT

Model No.: SG3
Worst Case Operating Mode: Light On

Z-axis



20JAN-Z

Date: 20.JAN.2021 16:04:27

Ctrl. No.: 3.2.5

TEST REPORT

Model No.: SG3
Worst Case Operating Mode: Light On

Z-axis

EDIT PEAK LIST (Final Measurement Results)

Trace1: Triple
Trace2: ---
Trace3: ---

TRACE		FREQUENCY	LEVEL dBµA	DELTA LIMIT dB
1	Quasi Peak	325.5 kHz	16.00	-32.68
1	Quasi Peak	568.5 kHz	24.48	-17.50
1	Quasi Peak	784.5 kHz	11.28	-26.83
1	Quasi Peak	1.0725 MHz	3.00	-31.35
1	Quasi Peak	1.527 MHz	-0.35	-30.47
1	Quasi Peak	2.139 MHz	3.40	-22.65
1	Quasi Peak	2.8275 MHz	7.39	-15.31
1	Quasi Peak	3.183 MHz	5.12	-16.87
1	Quasi Peak	4.569 MHz	0.75	-21.25
1	Quasi Peak	7.0755 MHz	0.30	-21.69
1	Quasi Peak	8.6865 MHz	-0.55	-22.55
1	Quasi Peak	13.56 MHz	4.45	-17.54
1	Quasi Peak	21.6015 MHz	-0.67	-22.67
1	Quasi Peak	26.673 MHz	-0.13	-22.13

20JAN-Z

Date: 20.JAN.2021 16:02:18

Ctrl. No.: 3.2.6

TEST REPORT

EN IEC 55015 Disturbance Voltage Test at Mains Terminal

Model No.: SG3
Worst Case Operating Mode: Light On

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-2501	Artificial Mains Network	ROHDESCHWARZ	ENV-216	100483
EW-2500	EMI Test Receiver	ROHDESCHWARZ	ESCI	100847
EW-2451	RF Cable 80cm (RG142)	RADIALL	bnc m st/ 142/ bnc m st 80cm	Nil

Test Data

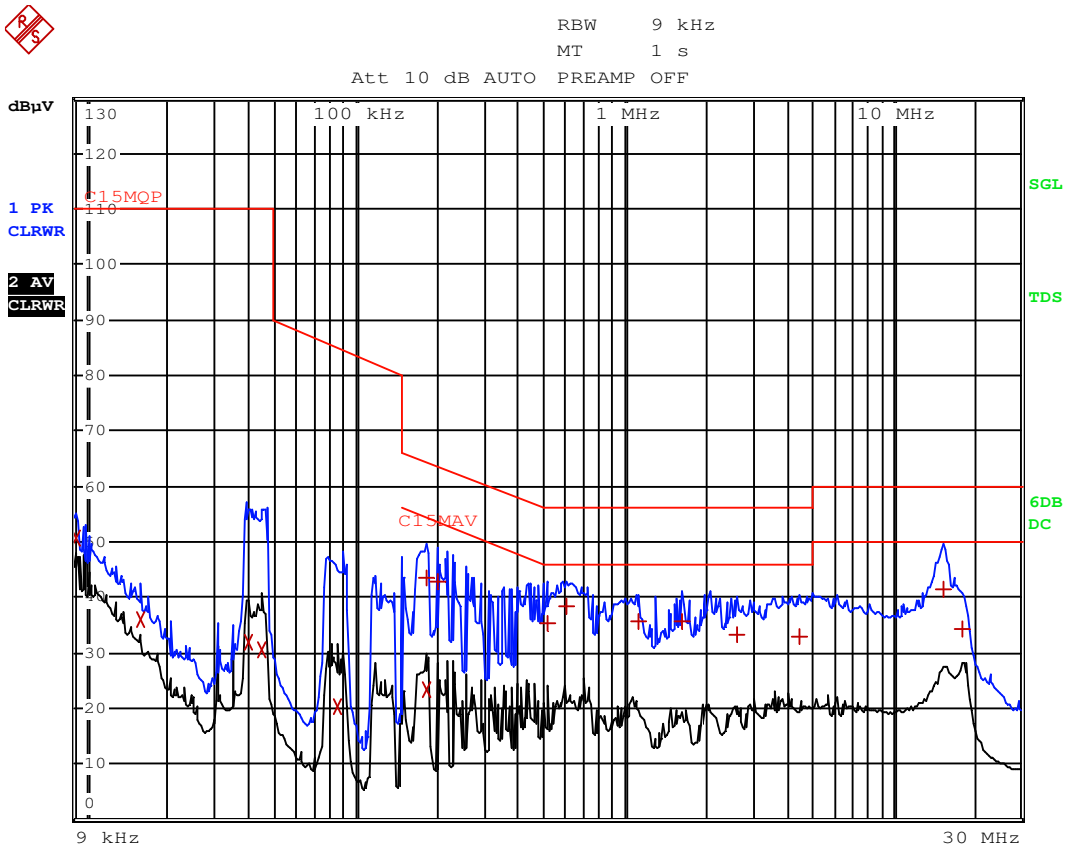
Frequency (Mhz)	Quasi-Peak		Average	
	Disturbance Level dB(µV)	Permitted Limit dB(µV)	Disturbance Level dB(µV)	Permitted Limit dB(µV)
0.009	53.59	110.0	--	N/A
0.050	< 40.0	90.0	--	N/A
0.100	< 40.0	83.7	--	N/A
0.160	< 40.0	65.5	< 30.0	55.5
0.240	< 40.0	62.1	< 30.0	52.1
0.550	< 40.0	56.0	< 30.0	46.0
1.000	< 40.0	56.0	< 30.0	46.0
1.400	< 40.0	56.0	< 30.0	46.0
2.000	< 40.0	56.0	< 30.0	46.0
3.500	< 40.0	56.0	< 30.0	46.0
6.000	< 40.0	60.0	< 30.0	50.0
10.00	< 40.0	60.0	< 30.0	50.0
22.00	< 40.0	60.0	< 30.0	50.0
30.00	< 40.0	60.0	< 30.0	50.0

Notes: 1. A graph of Ctrl. No.: 3.3.1 consisting of one page and a data table of Ctrl. No.: 3.3.2 consisting of one page are attached.
2. Uncertainty: ±3.46dB at a Level of Confidence of 95%.

Ctrl. No.: 3.3

TEST REPORT

Model No.: SG3
Worst Case Operating Mode: Light On



21010512HKG-001

Date: 13.JAN.2021 18:05:14

Ctrl. No.: 3.3.1

TEST REPORT

Model No.: SG3
Worst Case Operating Mode: Light On

EDIT PEAK LIST (Final Measurement Results)

Trace1: C15MQP
Trace2: C15MAV
Trace3: ---

	TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
2	CISPR Average	9.1 kHz	50.50	N	
2	CISPR Average	15.7 kHz	35.90	N	
2	CISPR Average	40.2 kHz	32.03	N	
2	CISPR Average	44.5 kHz	30.48	L1	
2	CISPR Average	86.3 kHz	20.18	N	
1	Quasi Peak	181.5 kHz	43.64	L1	-20.77
2	CISPR Average	181.5 kHz	23.43	L1	-30.98
1	Quasi Peak	199.5 kHz	42.90	L1	-20.73
1	Quasi Peak	514.5 kHz	35.19	L1	-20.80
1	Quasi Peak	604.5 kHz	38.49	L1	-17.50
1	Quasi Peak	1.131 MHz	35.69	N	-20.30
1	Quasi Peak	1.644 MHz	35.76	N	-20.23
1	Quasi Peak	2.6115 MHz	33.34	N	-22.65
1	Quasi Peak	4.461 MHz	33.04	L1	-22.95
1	Quasi Peak	15.297 MHz	41.46	N	-18.53
1	Quasi Peak	18.141 MHz	34.20	L1	-25.79

21010512HKG-001

Date: 13.JAN.2021 17:56:59

Ctrl. No.: 3.3.2

TEST REPORT

EN 61000-3-3 Voltage Fluctuations

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-3125	5 kVA Single Phase Harmonics & Flicker Measuring System and Single Phase Coupling Unit	TESEQ	ProfLine 2105-400 and CCN 1000-1	A00550

Test Data

	Result	Limit
d_{max} (%)	0	4.000
d_c (%)	0	3.300
d(t) > 3.3 %(ms)	0	500
P_{st}	0.064	1.000
P_{lt}	N/A	0.65

Note: Uncertainty: ±7.5% at a Level of Confidence of 95%.

TEST REPORT

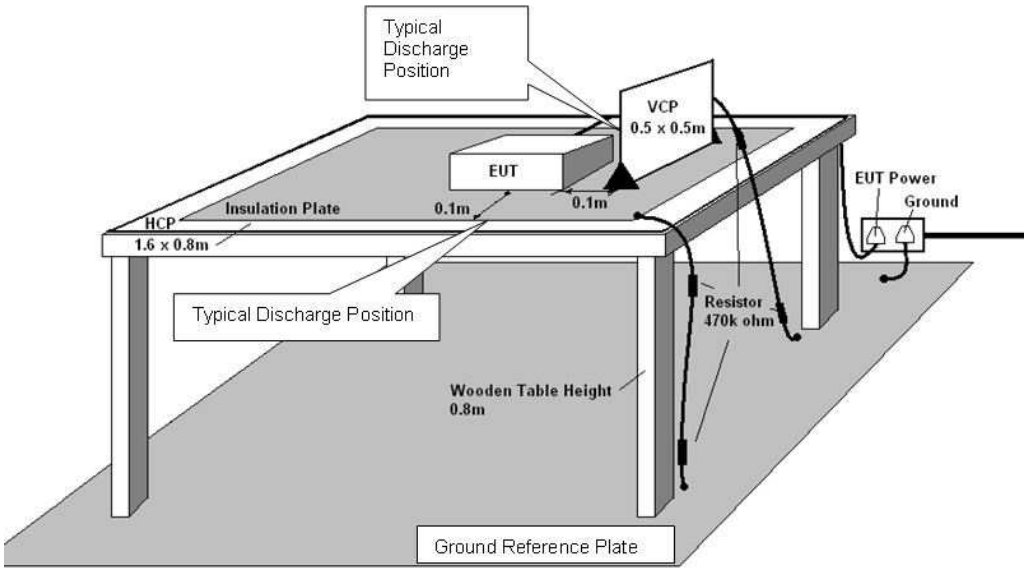
EN 61000-4-2 Electrostatic Discharge

Test Summary (Pursuant to EN 61547)

Basic Standard:		EN 61000-4-2
Port:		Enclosure
Level:		±8.0 kV (Air Discharge) ±4.0 kV (Contact Discharge) ±4.0 kV (Indirect Contact Discharge)
Required Performance Criterion:		B
Ambient Temperature:		20°C
Relative Humidity:		50%
Atmospheric Pressure:		100.7kPa
Time Between Each Discharge:		1 second
Test Mode:		Light On
Test Setup:		Table-top
Test of Post-installation		N/A
Test Point:	Air Discharge :	All accessible insulated enclosure and seams
		All accessible points where contact discharge cannot be applied
	Contact :	All conductive surfaces of the EUT
	HCP :	All sides of the EUT (Floor-stand product excluded)
	VCP :	Four faces of the EUT

TEST REPORT

The typical table-top test setup is as follow:



Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-2282	ESD Gun	Schaffner	NSG435	5888

Ctrl. No.: 7.1

TEST REPORT

EN 61000-4-2 Electrostatic Discharge

Test Result

Discharge Type	No. of Discharge	Applied Voltage	Result (Pursuant to EN 61547 criterion B)
Contact Discharge	20	+4.0kV	Complied
		-4.0kV	Complied
Air Discharge	20	+2.0, +4.0 & +8.0kV	Complied
		-2.0, -4.0 & -8.0kV	Complied
Indirect HCP Discharge	20	+4.0kV	Complied
		-4.0kV	Complied
Indirect VCP Discharge	20	+4.0kV	Complied
		-4.0kV	Complied

☒ There was no observable degradation in performance.

TEST REPORT

EN 61000-4-3 Radiated Immunity

Test Summary (Pursuant to EN 61547)

Basic Standard:	EN 61000-4-3
Port:	Enclosure
Required Performance Criterion:	A
Level:	3.0 V/m (rms)
Test Modulation:	1kHz, 80% AM
Frequency:	80 MHz to 1000 MHz
Dwell Time:	1s
Frequency Step:	1%
Temperature:	20°C
Relative Humidity:	50%
Test Facility:	Full Anechoic Chamber
Antenna Polarization:	Horizontal and Vertical
Type of Antenna:	Biconical / Log-periodic
Test Distance:	3m
Test Mode:	Light On
Test Setup:	Table-top
Size of the EUT:	34 (cm) x 30 (cm) x 12 (cm)

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-1902	Trilog Super Broadband Test Antenna 30MHz - 3000MHz	SCHWARZBECK	VULB 9163	9163-199
EW-1568	Anechoic Chamber	Universal Shielding Corp.	IEC/EN 61000-4-3	Nil
EW-3251	Signal Generator (100kHz to 6GHz)	ROHDESCHWARZ	SMB100A	113690
EW-3332	RF Amplifier (80MHz to 1000MHz)	AMPRESARCH	150W1000	307008
EW-3289	Broadband Amplifier (0.69GHz - 6GHz) 60W with OSP120 Switch	R&S	BBA150	102400

Ctrl. No.: 8.1

TEST REPORT

EN 61000-4-3 Radiated Immunity

Test Result

Frequency (MHz)	Exposed Side	Field Strength (V/m)	Result (Pursuant to EN 61547 criterion A)
80 to 1000	Front	3.0V/m (rms)	Complied
80 to 1000	Left	3.0V/m (rms)	Complied
80 to 1000	Rear	3.0V/m (rms)	Complied
80 to 1000	Right	3.0V/m (rms)	Complied

☒ Additional Information

☒ No observable change

☐ EUT stopped operation and could / could not be reset by operator.

☐ EUT was in abnormal operation:
- operation mode was changed from _____ to _____ at _____ V/m.

☐ _____

Ctrl. No.: 8.2

TEST REPORT

EN 61000-4-4 Electrical Fast Transient/Burst

Test Summary (Pursuant to EN 61547)

Basic Standard:	EN 61000-4-4	
Port:	A.C. Power Ports	D.C. Power Ports, Signal Ports and Control Ports
Required Performance Criterion:	B	
Level:	±1.0kV	±0.5kV
Test Duration:	2 minutes	
Test Mode:	Light On	
Test Setup:	Table-top	
Generator Drive:	Internal	
Sequence of Application:	Each One	

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-3167	CE Immunity Compact Tester : EN61000-4-X	TESEQ	NSG3060	1821

TEST REPORT

EN 61000-4-4 Electrical Fast Transient/Burst

Test Result

Port	Level	Result (Pursuant to EN 61547 criterion B)
A.C. Power Ports	+1.0kV	Complied
	-1.0kV	Complied
D.C. Power Ports, Signal Ports and Control Ports	+0.5kV	N/A
	-0.5kV	N/A

☒ Additional Information

☒ No observable change

☐ EUT stopped operation and could / could not be reset by operator.

☐ EUT was in abnormal operation:
- operation mode was changed from _____ to _____ at _____ V/m.

☐ _____

TEST REPORT

EN 61000-4-5 Surge Immunity

Test Summary (Pursuant to EN 61547)

Basic Standard:	EN 61000-4-5		
Port:	A.C. Power Ports		
	Phase And Neutral	Phase And Earth	Neutral And Earth
Level:	5 Positive And 5 Negative Surges		
	±0.5kV	±1.0kV	±1.0kV
Generator Impedance:	2 ohm	12 ohm	12 ohm
Required Performance Criterion:	C		
Repetition Rate:	1 minute		
Test Mode:	Light On		
Test Setup:	Capacitive Coupling		
Surge Generator Trigger:	Internal		
Installation Condition:	Class 3: Electrical environment where cables run in parallel.		
Phase Angle:	90°, 270°		

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-3167	CE Immunity Compact Tester : EN61000-4-X	TESEQ	NSG3060	1821

Ctrl. No.: 10.1

TEST REPORT

EN 61000-4-5 Surge Immunity

Test Result

Level		Result (Pursuant to EN 61547 criterion C)
Between Phase And Neutral:	±0.5kV	Complied
Between Phase And Earth:	±1.0kV	N/A
Between Neutral And Earth:	±1.0kV	N/A

☒ Additional Information

☒ No observable change

☐ EUT stopped operation and could / could not be reset by operator.

☐ EUT was in abnormal operation:
- operation mode was changed from _____ to _____ at _____ V/m.

☐ _____

Ctrl. No.: 10.2

TEST REPORT

EN 61000-4-6 Injected Current (0.15 MHz to 80 MHz)

Test Summary (Pursuant to EN 61547)

Basic Standard:	EN 61000-4-6	
Port:	A.C. Power Ports	D.C. Power Ports, Signal Ports and Control Ports
Required Performance Criterion:	A	
Level:	3.0V (rms)	3.0V (rms)
Cable Length between CDN and EUT:	20 ± 9 cm	20 ± 9 cm
Used coupling and decoupling device:	EW-1454	EW-0992
CDN terminated by 50Ω load:	N/A	
Test Modulation:	1 kHz, 80% AM	
Frequency	0.15 MHz to 80 MHz	
Rate of sweep:	1.5 x 10^{-3} decades/s	
Dwell Time:	1s	
Frequency Step:	1%	
Temperature:	20°C	
Relative Humidity:	50%	
Coupling Factor of CDN:	-1.0dB ~ -1.7dB	
Test Mode:	Light On	
Test Setup:	Table-top	
Size of the EUT :	34 (cm) x 30 (cm) x 12 (cm)	
Equipment Under Test :	Single Unit	

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-0611	AM/FM Signal Generator	Marconi	2024	112139/025
EW-2986	RF Amplifier	AMP SEARCH	75A250A	0554502
EW-1454	Coupling Decoupling Network	LUTHI	L801/M2/M3	1904

TEST REPORT

EN 61000-4-6 Injected Current (0.15 MHz to 80 MHz)

Test Result

Port	Frequency (MHz)	Level	Result (Pursuant to EN 61547 criterion A)
A.C. Power Ports	0.15 to 80	3.0V (rms)	Complied
D.C. Power Ports	0.15 to 80	3.0V (rms)	N/A
Signal Ports	0.15 to 80	3.0V (rms)	N/A
Control Ports	0.15 to 80	3.0V (rms)	N/A

☒ Additional Information

☒ No observable change

☐ EUT stopped operation and could / could not be reset by operator.

☐ EUT was in abnormal operation:
- operation mode was changed from _____ to _____ at _____ V/m.

☐ _____

TEST REPORT

EN 61000-4-11 Voltage Dips and Interruptions

Test Summary (Pursuant to EN 61547)

Basic Standard:	EN 61000-4-11		
Port:	A.C. Power Ports		
Level:	Test level in %U_T	Duration(s)	Required Performance Criterion
	0	0.01	B
	70	0.20	C
No. of dips/interruptions:	3		
Test Mode:	Light On		
Test Setup:	Test generator causes the interference to the EUT AC mains		

U_T is the rated voltage for the equipment.

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-3167	CE Immunity Compact Tester : EN61000-4-X	TESEQ	NSG3060	1821

Ctrl. No.: 13.1

TEST REPORT

EN 61000-4-11 Voltage Dips and Interruptions

Test Result

Test condition		Result
Test Level in %U_T	Duration(s)	(Pursuant to EN 61547 criterion B)
0	0.01	Complied

Test condition		Result
Test Level in %U_T	Duration(s)	(Pursuant to EN 61547 criterion C)
70	0.20	Complied

☒ Additional Information

☒ No observable change

☐ EUT stopped operation and could / could not be reset by operator.

☐ EUT was in abnormal operation:
- operation mode was changed from _____ to _____ at _____ V/m.

☐ _____

Ctrl. No.: 13.2

TEST REPORT

APPENDIX - PHOTO OF EUT

Guidelines On Issuing EC Declaration Of Conformity Pursuant To EMC Directive

To attest the compliance of apparatus with the relevant EMC Directive, an EC Declaration of Conformity shall be issued by the manufacturer or his authorised representative in the European Community, and the attached EC Declaration of Conformity template contains all mandatory requirements pursuant to EMC Directive 2014/30/EU. Please follow the steps listed below when preparing an EC Declaration of Conformity:

1. Provide the name and address of the manufacturer;
2. Provide the name and address of the authorised representative in the European Community, where applicable;
3. For Apparatus' Description, specify the brand name and any other information allowing for the description of the apparatus to which the EC Declaration of Conformity refers;
4. For Apparatus' Identification, specify the type, batch, serial number or any other information allowing for the identification of the apparatus to which the EC Declaration of Conformity refers;
5. Specify the relevant EMC Directive with which the apparatus are in compliance;
6. List all dated specifications under which conformity is declared to ensure the conformity of the apparatus with the relevant EMC Directive, you may refer the standards shown in the Test Verification of Conformity issued by Intertek;
7. Sign the EC Declaration of Conformity by the person empowered to bind the manufacturer or his authorised representative in the European Community. The Name, Position and Company of this person shall be specified for identification;
8. State the date of issuing the EC Declaration of Conformity.

NOTES:

a. The EC Declaration of Conformity shall be held by the manufacturer or his authorised representative in the European Community at the disposal of the competent authorities for a period of at least ten years after the date on which such apparatus was last manufactured. If neither the manufacturer nor his authorised representative is established within the European Community, the obligation to hold the EC Declaration of Conformity at the disposal of the competent authorities shall lie with the person who places the apparatus on the European Community market.

b. If EMC Directive 2014/30/EU is applied, the manufacturer shall draw up technical documentation according to Annex IV of this EMC Directive; and in addition to CE Marking, the apparatus shall also meet other marks and information as stated in Article 9 of the same EMC Directive.

c. The EC Declaration of Conformity guidelines and template are for your reference only, you shall ensure that the EMC Directive 2014/30/EU are applied correctly.

EU DECLARATION OF CONFORMITY (No Xxxx) [1]

1. Apparatus model/Product (product, type, batch or serial number):

   ……..

2. Name and address of the manufacturer or his authorised representative:

   ……..

3. This declaration of conformity is issued under the sole responsibility of the manufacturer.

   ……..

4. Object of the declaration (identification of apparatus allowing traceability; it may include a colour image of sufficient clarity where necessary for the identification of the apparatus):

   ……..

5. The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

   ……..

6. References to the relevant harmonised standards used, including the date of the standard, or references to the other technical specifications, including the date of the specification, in relation to which conformity is declared:

   ……..

7. Where applicable, the notified body (name, number) performed (description of intervention) and issued the certificate:

   ……..

8. Additional information:

   Signed for and on behalf of: ……

   (place and date of issue): ……

   (name, function) (signature): ……

[1] It is optional for the manufacturer to assign a number to the declaration of conformity.