TEST REPORT

This report is to supersede test report EBO2008048-E101

Applicant: HNC ELECTRIC LIMITED

Address of Applicant: Suite A1, 12/F., Ritz Plaza, 122 Austin Road TST., Kowloon. Hong Kong.

Equipment Under Test (EUT)

Product Name: SENSOR

Brand Name: HNC Electric

Model No.: SJK-DS30MK, SI04-01xx-Z, SI05-01xx-Z, SI08-02xx-Z, SI12-04xx-Z, SI18-08xx-Z, SI30-15xx-Z, SF-W3xx-Z, SF-W5xx-Z, SF-04xx-Z, SF-25xx-Z, SF-30xx-Z, SF-40xx-Z, SH08-10xx-Z, SH12-10xx-Z, SH18-10xx-Z, SC18-08xx-Z, SC30-15xx-Z, SA18-xx-xxx-Z, SA30-xx-xxx-Z, ST30-xxxx-Z, SS18-xxxx-Z, SO06-xx-Z, SP12-xxxxx-Z, SP18-xxxxx-Z, SJK-xxxxx-Z, SZ-xxxxx-Z, SU-xxxxx-Z, SGQ4-xx-Z, SGQ6-xx-Z, SFD-N, SFD-P, SFD-4N, SFD-4P, SJG18-xxxxx-Z, SSB-500, SL-xxTxx-xxZ
Note: x = A~Z (contain 26 letters), or x = 0~9 (contain 10 numbers) , or x is empty.

Applicable standards: EN IEC 61000-6-4:2019
EN IEC 61000-6-2:2019

Date of sample receipt: August 12, 2020

Date of Test: August 12, 2020 To August 20, 2020

Date of report issued: August 21, 2020

Test Result : PASS *

*In the configuration tested, the EUT complied with the standards specified above.

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

Authorized Signature

Kevin Wang
Laboratory Manager

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2 Version

Version No.	Date	Description
00	*August 20, 2020*	*Original*
01	*August 21, 2020*	*New Report*(Change Model No.)*

Prepared By: Gary Wang ***Date:*** *August 21, 2020*

Project Engineer

Reviewed By: Kevin Wang ***Date:*** *August 21, 2020*

Reviewer

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4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission	EN 61000-6-4	CISPR 11	Table 1	PASS
Electrostatic discharges	EN 61000-6-2	EN 61000-4-2	Contact ±4 kV Air ±8 kV	PASS
Radiated Immunity	EN 61000-6-2	EN 61000-4-3	10V/m, 80%, 1kHz Amp. Mod. 3V/m, 80%, 1kHz Amp. Mod. 1V/m, 80%, 1kHz Amp. Mod.	PASS

Remark:
Pass: Comply with the essential requirements in the standard.

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5 General Information

5.1 Client Information

Applicant:	HNC ELECTRIC LIMITED
Address of Applicant:	Suite A1, 12/F., Ritz Plaza, 122 Austin Road TST., Kowloon. Hong Kong.
Manufacturer:	HNC ELECTRIC LIMITED
Address of Manufacturer:	Suite A1, 12/F., Ritz Plaza, 122 Austin Road TST., Kowloon. Hong Kong.

5.2 General Description of E.U.T

Product Name:	SENSOR
Brand Name:	HNC Electric
Model No.:	SJK-DS30MK, SI04-01xx-Z, SI05-01xx-Z, SI08-02xx-Z, SI12-04xx-Z, SI18-08xx-Z, SI30-15xx-Z, SF-W3xx-Z, SF-W5xx-Z, SF-04xx-Z, SF-25xx-Z, SF-30xx-Z, SF-40xx-Z, SH08-10xx-Z, SH12-10xx-Z, SH18-10xx-Z, SC18-08xx-Z, SC30-15xx-Z, SA18-xx-xxx-Z, SA30-xx-xxx-Z, ST30-xxxx-Z, SS18-xxxx-Z, SO06-xx-Z, SP12-xxxxx-Z, SP18-xxxxx-Z, SJK-xxxxx-Z, SZ-xxxxx-Z, SU-xxxxx-Z, SGQ4-xx-Z, SGQ6-xx-Z, SFD-N, SFD-P, SFD-4N, SFD-4P, SJG18-xxxxx-Z, SSB-500, SL-xxTxx-xxZ Note: x = A~Z (contain 26 letters), or x = 0~9 (contain 10 numbers) , or x is empty. Remark: All models are identical in the same PCB layout, interior structure and electrical circuits. The only differences are the model name and appearance color for commercial purpose.
Test Model No.:	SJK-DS30MK
Power Supply:	DC 10-30V, 0.2A

5.3 Test mode

On mode:	Keep the EUT in the operation status.

5.4 Description of Support Units

None.

5.5 Deviation from Standards

None.

5.6 Abnormalities from Standard Conditions

None.

5.7 Monitoring of EUT for All Immunity Test

Visual:	Monitor the EUT operating status.
Audio:	N/A

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6 Test Instruments List

Radiated Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	Jul. 3 2016	Jul. 2 2021
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	June. 24 2020	June. 23 2021
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	June. 24 2020	June. 23 2021
5	Double-ridged horn antenna	SCHWARZBECK	9120D	GTS208	June. 24 2020	June. 23 2021
6	RF Amplifier	HP	8347A	GTS204	June. 24 2020	June. 23 2021
7	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	June. 24 2020	June. 23 2021
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial cable	GTS	N/A	GTS210	N/A	N/A
10	Coaxial Cable	GTS	N/A	GTS211	N/A	N/A
11	Thermo meter	KTJ	TA328	GTS256	June. 24 2020	June. 23 2021

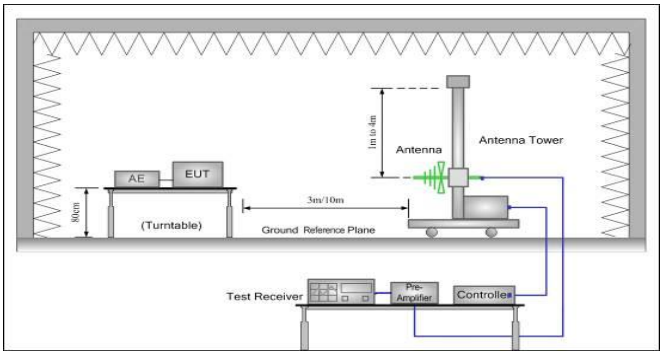
ESD:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	ESD Simulator	KIKUSUI	KES4021A	GTS242	June. 24 2020	June. 23 2021
2	Thermo meter	KTJ	TA328	GTS243	June. 24 2020	June. 23 2021

Radiated Immunity:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Serial NO.**	**Cal.Date (mm-dd-yy)**	**Cal.Due Date (mm-dd-yy)**
1	Signal Generator	Rohde & Schwarz	SMT03	100059	Jan. 16 2020	Jan. 15 2021
2	Power Amplifier	AR	150W1000	300999	Jan. 16 2020	Jan. 15 2021
3	Power Amplifier	AR	25S1G4AM1	305993	Jan. 16 2020	Jan. 15 2021
4	Power Amplifier	AR	150A220M6	305965	Jan. 16 2020	Jan. 15 2021
5	Broadband antenna	CHASE	CBL6111C	2576	Jan. 16 2020	Jan. 15 2021
6	Horn Antenna	AR	AT4002A	2783	Jan. 16 2020	Jan. 15 2021

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7 Emission Test Results

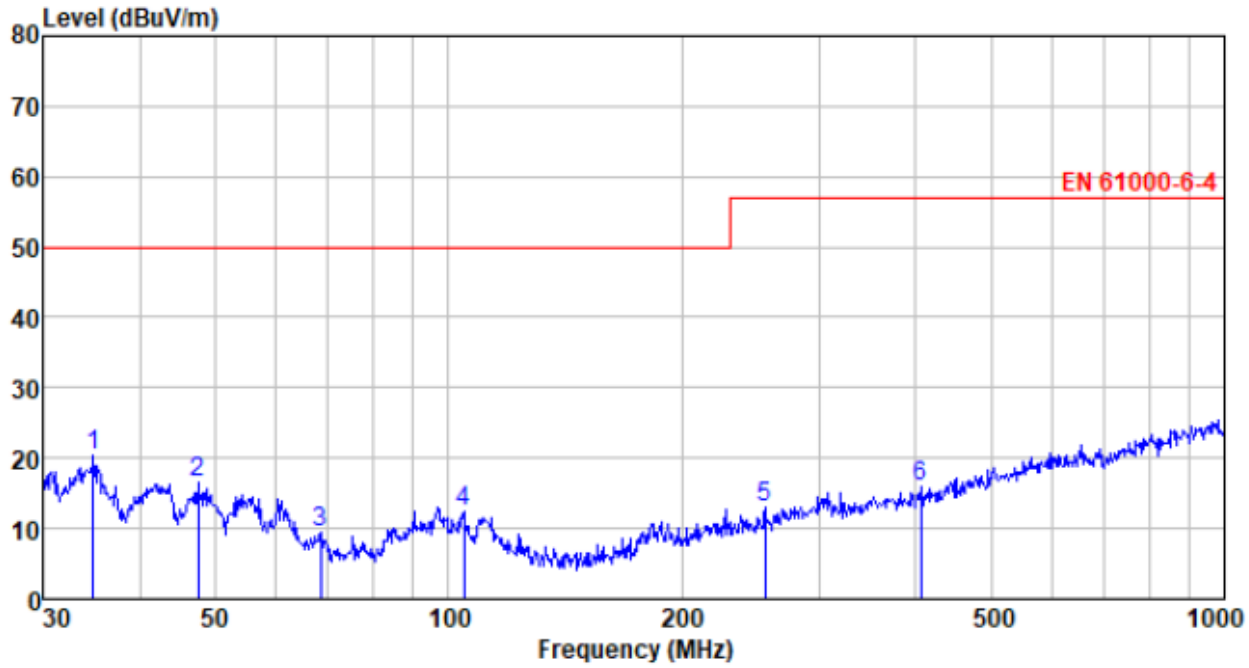
7.1 Radiated Emission

<table>
<tr><td>Test Requirement:</td><td colspan="3">EN 61000-6-2</td></tr>
<tr><td>Test Method:</td><td colspan="3">CISPR 11</td></tr>
<tr><td>Test Frequency Range:</td><td colspan="3">30MHz to 1GHz</td></tr>
<tr><td>Measurement Distance:</td><td colspan="3">3m</td></tr>
<tr><td>Limit:</td><td colspan="3"><table><tr><td>Frequency</td><td>Limit (dBμV/m @3m)</td><td>Value</td></tr><tr><td>30MHz-230MHz</td><td>50.00</td><td>Quasi-peak</td></tr><tr><td>230MHz-1GHz</td><td>57.00</td><td>Quasi-peak</td></tr></table></td></tr>
<tr><td>Test setup:</td><td colspan="3">
</td></tr>
<tr><td>Test Procedure:</td><td colspan="3">1. The radiated emissions test was conducted in a semi-anechoic chamber.
2. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
3. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.
4. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.</td></tr>
<tr><td>Test environment:</td><td>Temp.: 25 °C</td><td>Humid.: 52%</td><td>Press.: 1 012mbar</td></tr>
<tr><td>Measurement Record:</td><td colspan="3">Uncertainty: ± 4.50dB</td></tr>
<tr><td>Test Instruments:</td><td colspan="3">Refer to section 6 for details</td></tr>
<tr><td>Test mode:</td><td colspan="3">Refer to section 5.3 for details</td></tr>
<tr><td>Test results:</td><td colspan="3">Pass</td></tr>
</table>

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Measurement Data

Test mode:	On mode	Polarization:	Horizontal

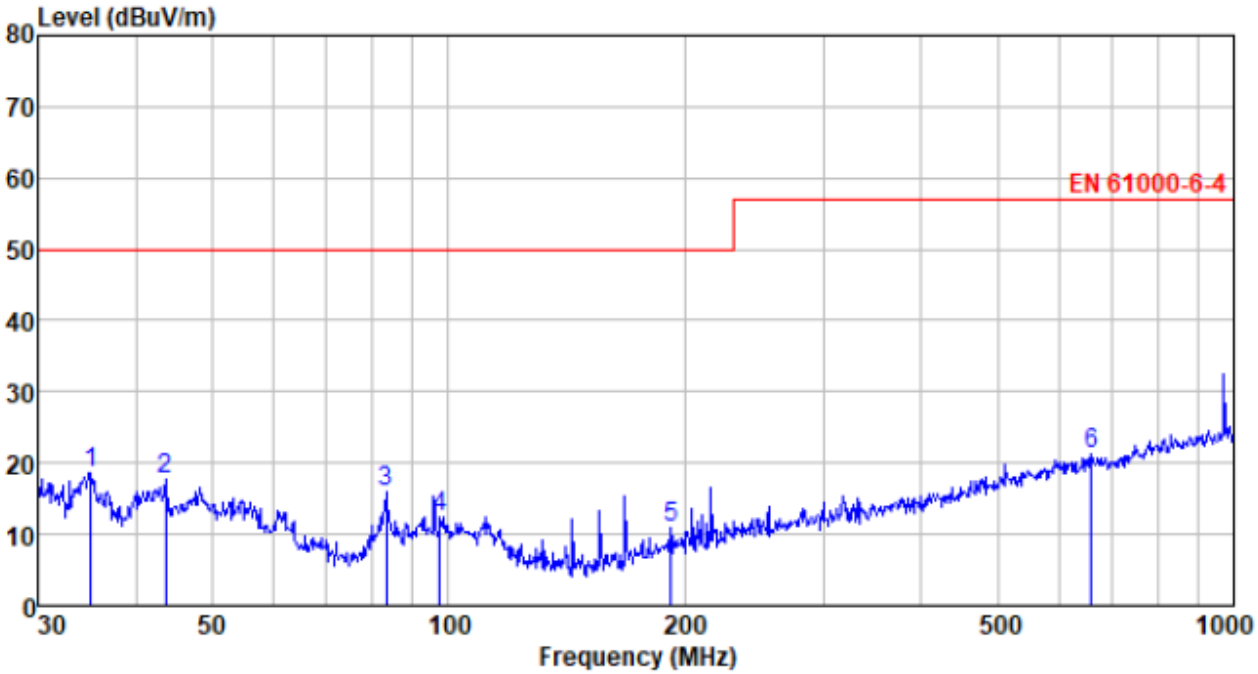


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
34.882	43.69	11.30	0.61	35.35	20.25	50.00	-29.75	QP
47.492	39.48	12.28	0.74	36.06	16.44	50.00	-33.56	QP
68.391	36.73	8.08	0.93	36.42	9.32	50.00	-40.68	QP
104.536	36.12	11.68	1.23	36.76	12.27	50.00	-37.73	QP
255.623	35.76	12.33	2.15	37.38	12.86	57.00	-44.14	QP
406.088	35.02	15.46	2.88	37.52	15.84	57.00	-41.16	QP

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

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Test mode:	On mode	Polarization:	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
35.005	42.06	11.33	0.61	35.36	18.64	50.00	-31.36	QP
43.659	40.77	12.24	0.70	35.87	17.84	50.00	-32.16	QP
83.230	42.86	8.54	1.06	36.58	15.88	50.00	-34.12	QP
97.456	36.11	11.86	1.17	36.70	12.44	50.00	-37.56	QP
191.745	36.36	9.99	1.80	37.29	10.86	50.00	-39.14	QP
658.836	35.23	19.56	3.94	37.59	21.14	57.00	-35.86	QP

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

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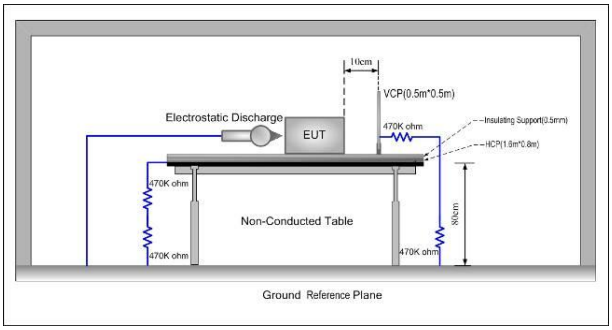
8 Immunity Test Results

8.1 Performance Criteria Description in EN 61000-6-2

Criterion A:	The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.
Criterion B:	The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.
Criterion C:	Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

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8.2 Electrostatic Discharge

Test Requirement:	EN 61000-6-2
Test Method:	EN 61000-4-2
Discharge Voltage:	Contact Discharge:±4kV Air Discharge: ±8kV HCP/VCP:±4kV
Polarity:	Positive & Negative
Number of Discharge:	Minimum 10 times at each test point.
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum
Performance Criterion:	B
Test setup:	
Test Procedure:	**1. Air discharge:** The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure was repeated until all the air discharge completed **2. Contact Discharge:** The test was applied on conductive surfaces of EUT. the generator was re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. the tip of the discharge electrode was touch the EUT before the discharge switch was operated. **3. Indirect discharge for horizontal coupling plane** At least 10 single discharges shall be applied at the front edge of each HCP opposite the centre point of each unit of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge. Consideration should be given to exposing all sides of the EUT. **4. Indirect discharge for vertical coupling plane** At least 10 single discharges were applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X

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	0.5m, was placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges were applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.		
Test environment:	Temp.: 24 °C	Humid.: 51%	Press.: 1012mbar
Test mode:	Refer to section 6 for details		
Test Instruments:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Record:

Test points:	I: N/A
	II: Seams

Direct discharge

Discharge Voltage (KV)	Type of discharge	Test points	Observations (Performance Criterion)	Result
± 4	Contact	I	A	Pass
± 8	Air	II	A	Pass

Indirect discharge

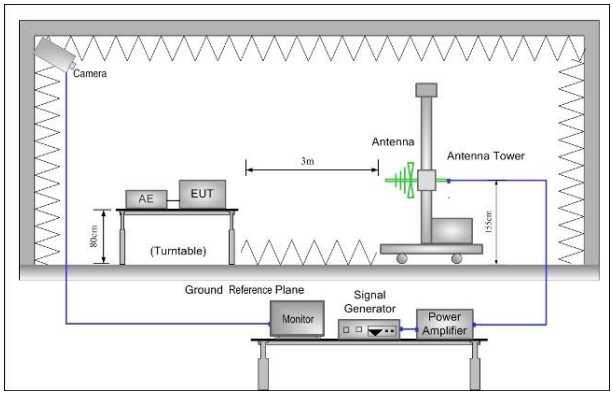
Discharge Voltage (KV)	Type of discharge	Test points	Observation Performance	Result
± 4	HCP-Bottom/Top/ Front/Back/Left/Right	Edge of the HCP	A	Pass
± 4	VCP-Front/Back /Left/Right	Center of the VCP	A	Pass

Remark:

A: No degradation in performance of the EUT was observed.

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8.3 Radiated Immunity

Test Requirement:	EN 61000-6-2
Test Method:	EN 61000-4-3
Frequency range:	80MHz to 1GHz, 1.4GHz to 2GHz, 2.0 GHz to 2.7GHz
Test Level:	10 V/m, 3V/m, 1V/m
Modulation:	80%, 1kHz Amplitude Modulation
Performance Criterion:	A
Test setup:	
Test Procedure:	1. For table-top equipment, the EUT was placed in the chamber on a non-conductive table 0.8m high. For arrangement of floor-standing equipment, the EUT was mounted on a non-conductive support 0.1m above the supporting plane. For human body-mounted equipment, the EUT may be tested in the same manner as table top items. 2. If possible, a minimum of 1 m of cable is exposed to the electromagnetic field. Excess length of cables interconnecting units of the EUT shall be bundled low-inductively in the approximate center of the cable to form a bundle 30 cm to 40 cm in length. 3. The EUT was initially placed with one face coincident with the calibration plane. The EUT face being illuminated was contained within the UFA (Uniform Field Area). 4. The frequency ranges to be considered were swept with the signal modulated and pausing to adjust the RF signal level or to switch oscillators and antennas as necessary. Were the frequency range was swept incrementally, the step size was not exceed 1 % of the preceding frequency value. 5. The dwell time of the amplitude modulated carrier at each frequency was not be less than the time necessary for the EUT to be exercised and to respond, and was not less than 0,5 s. 6. The test normally was performed with the generating antenna facing each side of the EUT. 7. The polarization of the field generated by each antenna necessitates testing each selected side twice, once with the antenna positioned vertically and again with the antenna positioned horizontally. 8. The EUT was performed in a configuration to actual installation conditions, a video camera and/or a audio monitor were used to

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	monitor the performance of the EUT.		
Test environment:	Temp.: 25°C	Humid.: 52%	Press.: 1012mbar
Test Instruments:	Refer to section 6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Record:

Frequency	Level (V/m)	EUT Face	Dwell time	Observations	Result
80MHz-1GHz	3	Front	2s	A	Pass
		Back		A	Pass
		Left		A	Pass
		Right		A	Pass
		Top		A	Pass
		Underside		A	Pass
1.4GHz-2GHz	3	Front	2s	A	Pass
		Back		A	Pass
		Left		A	Pass
		Right		A	Pass
		Top		A	Pass
		Underside		A	Pass
2GHz-2.7GHz	1	Front	2s	A	Pass
		Back		A	Pass
		Left		A	Pass
		Right		A	Pass
		Top		A	Pass
		Underside		A	Pass

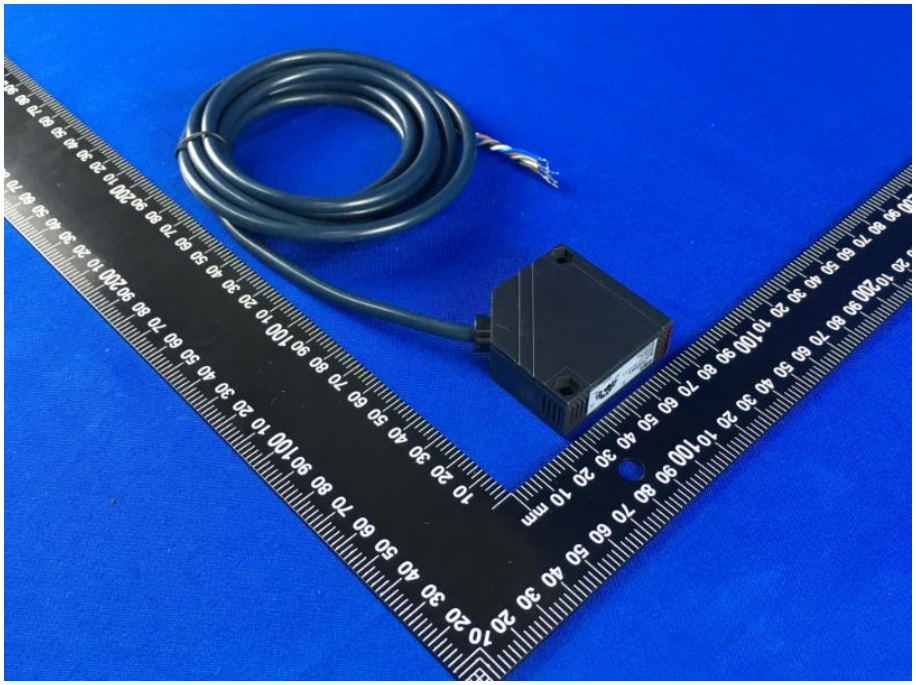
Remarks:

A: No degradation in the performance of the E.U.T. was observed.

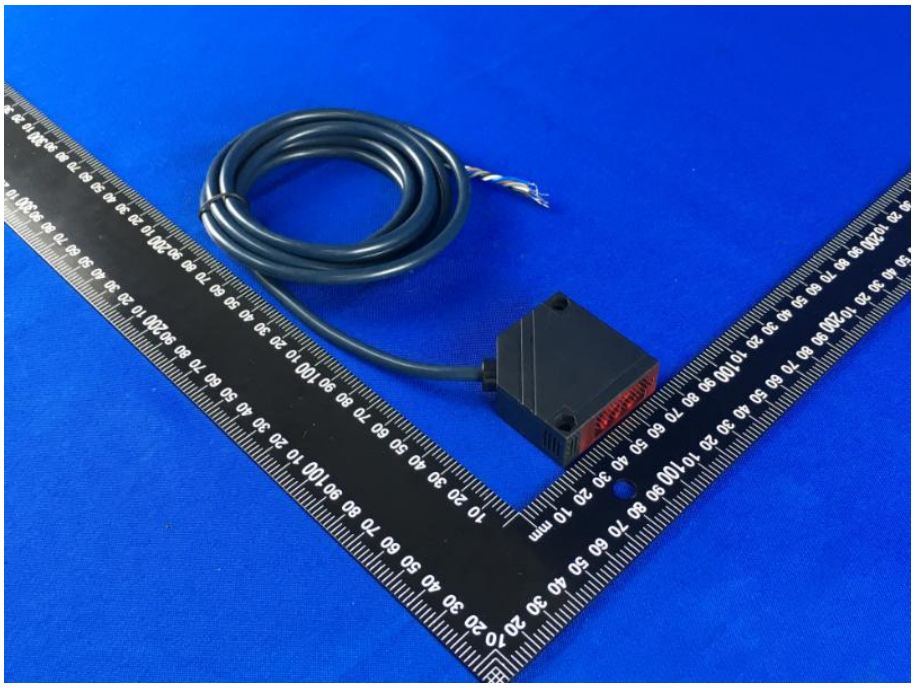
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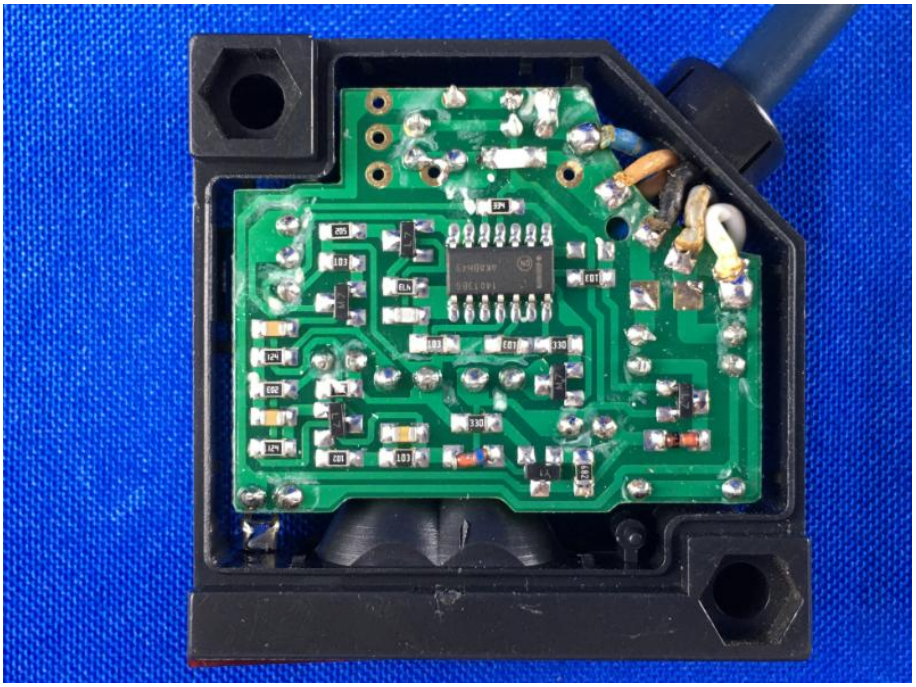
9 Photographs of the EUT



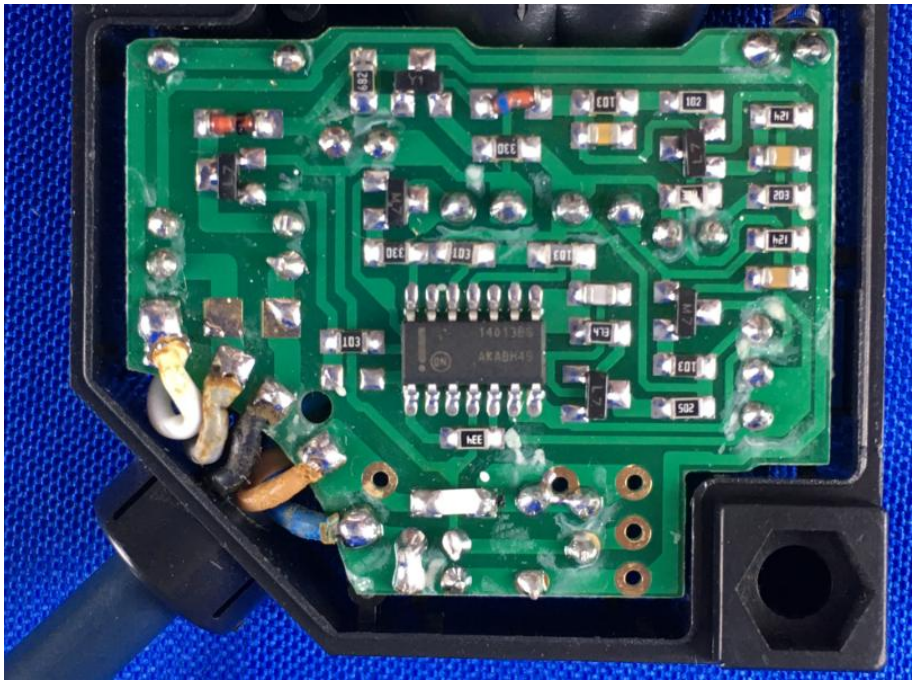


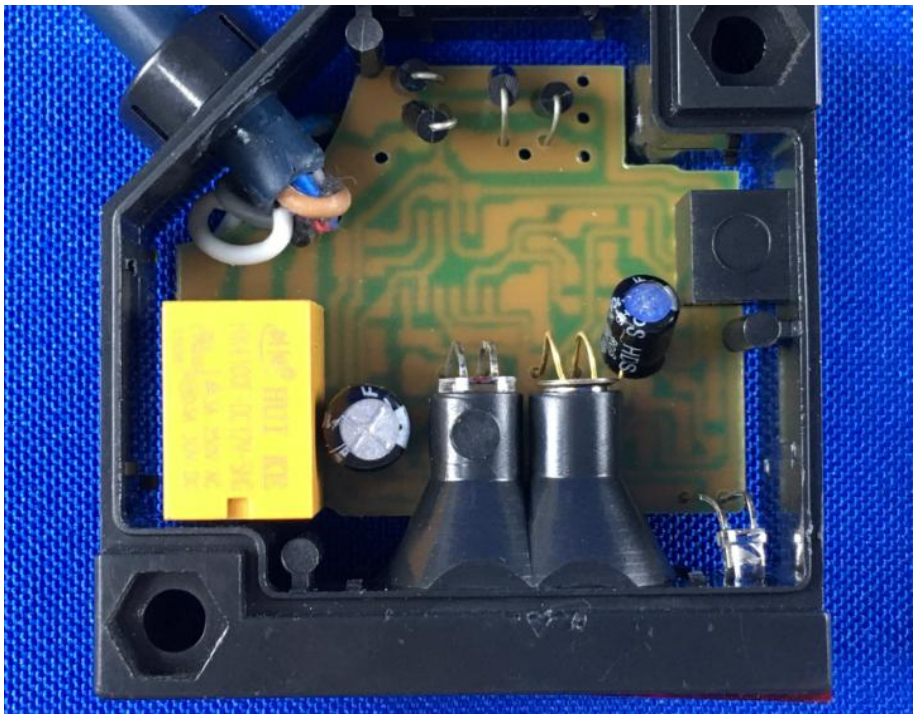
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------End------

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