

EMC TEST REPORT

Test report

On Behalf of

Shenzhen Kuaibo Technology Co., Ltd.

For

USB Cable

Model No. : KB130N-V8(micro usb)

Serial Model : KB130N-I5(iphone),KB130N-TC(type-c)

Prepared for

Shenzhen Kuaibo Technology Co., Ltd.

C11-13, 11th floor, U Chuanggu, Xinniu Road, Longhua
New Area, Shenzhen

Prepared by

Shenzhen CTB Testing Technology Co., Ltd.

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China

TEST RESULT CERTIFICATION

Applicant's name.....: Shenzhen Kuaibo Technology Co., Ltd.
 Address.....: C11-13, 11th floor, U Chuanggu, Xinniu Road, Longhua
 New Area, Shenzhen
Manufacture's Name.....: Shenzhen Kuaibo Technology Co., Ltd.
 Address.....: C11-13, 11th floor, U Chuanggu, Xinniu Road, Longhua
 New Area, Shenzhen

Product description

Product name.....: USB Cable
 Trade Mark.....: N/A
 Model and/or type reference : KB130N-V8(micro usb), KB130N-I5(iphone),KB130N-TC(type-c)
Standards.....: EN 55032:2015, EN 55035: 2017

This device described above has been tested by Shenzhen CTB Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is compliance with the 2014/30/EU directive and its amendment requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:
 Date (s) of performance of tests.....: May 16, 2019 ~ Jun. 04, 2019
 Date of Issue.....: Jun. 04, 2019
 Test Result.....: Pass

Producer : Amy Yang , Date : Jun. 04, 2019
 Amy Yang/ Engineer

Signatory : Shenwin Qian , Date : Jun. 04, 2019
 Shenwin Qian/ Director



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1. DESCRIPTION OF VERSION

Edition No.	Date of Revision	Revision Summary	Report Number
0	Jun. 04, 2019	Original Report	CTB190520041EX

2. Test Summary

EN 55032:2015	
Requirement - Test	Result
Classification Class (A or B)	B
Mains terminal disturbance voltage	N/A
Conducted common mode (asymmetric mode) disturbance	N/A
Radiated emissions at frequencies up to 1 GHz	P
Radiated emissions at frequencies above 1 GHz	N/A
EN 61000-3-2:2014	
Requirement - Test	Result
Harmonic current emissions	N/A
EN 61000-3-3:2013	
Requirement - Test	Result
Voltage Fluctuations and Flicker	N/A
EN 55035:2017	
Requirement - Test	Result
Electrostatic discharges (ESD)	P
Continuous RF electromagnetic field disturbances	P
Continuous induced RF disturbances	N/A
Power frequency magnetic field	N/A
Electrical fast transients/burst (EFT/B)	N/A
Surges	N/A
Voltage dips and interruptions	N/A
Broadband impulsive conducted disturbances	N/A

Possible test case verdicts:

- test case does not apply to the test object: N/A
- test object does meet the requirement: P(Pass)
- test object does not meet the requirement: F(Fail)

Remark: The test was carried out in all the test modes, only the worst data are list in report.

3. GENERAL INFORMATION

3.1. Description of EUT

Equipment	USB Cable
Trade Mark	N/A
Model Name	KB130N-V8(micro usb)
Serial No.	KB130N-I5(iphone),KB130N-TC(type-c)
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: KB130N-V8(micro usb) .
Normal Voltage	DC5V-9V
Normal Testing Voltage	DC9V
Highest internal frequency (F _x)	<input checked="" type="checkbox"/> F _x ≤ 108 MHz <input type="checkbox"/> 108 MHz < F _x ≤ 500 MHz <input type="checkbox"/> 500 MHz < F _x ≤ 1 GHz <input type="checkbox"/> F _x > 1 GHz
Configuration	<input checked="" type="checkbox"/> Table-top <input type="checkbox"/> Floor-standing
Accessory Device1	Mobile phone
Accessory Device2	Laptop

Note:

1. The EUT uses following Accessory Device

Mobile phone	1
Manufacturer	Meizu
Model	M5 Note
AC Input Power	230V/50Hz
DC Output Power	DC5V
Plug Type	N/A

Mobile phone	2
Manufacturer	Apple
Model	Lightning Apple A1660
AC Input Power	230V/50Hz
DC Output Power	DC5V
Plug Type	N/A

Mobile phone	3
Manufacturer	HUAWEI
Model	FRD-AL10
AC Input Power	230V/50Hz
DC Output Power	DC5V
Plug Type	N/A

Laptop	4
Manufacturer	DELL
Model	Inspiron 5570
AC Input Power	230V/50Hz
DC Output Power	19.5V===2.31A /3.34A
Plug Type	N/A

Note: For more detailed features description, please refer to the manufacturer’s specifications or the User’s Manual.

3.2. Block diagram of EUT configuration



3.3. Operating condition of EUT

Test mode	Description
1	Working

3.4. Test conditions

Temperature: 15-35°C
 Relative Humidity: 30-60 %
 Atmospheric pressure: 800hPa-1060hPa

3.5. Performance criterion

Performance criterion **A**

The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment 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, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion **B**

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.

After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment 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), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion **C**

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.

Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

3.6. Measurement uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test	Parameters	Expanded Uncertainty (U_{Lab})	Expanded Uncertainty (U_{Cispr})
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 3.67 dB	± 5.2 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.79 dB	N/A

4. List of Test and Measurement Instruments

4.1. Radiated Emission Measurement

(Test software: EZ-EMC Ver. FA-03A2 RE)

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	1911	2019.11.02
2	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	869	2019.11.02
3	Amplifier	Agilent	8449B	3008A01838	2019.11.01
4	Amplifier	HP	8447E	2945A02747	2019.11.01
5	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI7	100362	2019.11.01
6	Coaxial cable	ZDECL	ZT26	18091906	2019.11.01
7	Coaxial cable	ZDECL	ZT26	18097604	2019.11.01
8	Coaxial cable	ZDECL	ZT26	18091908	2019.11.01
9	Coaxial cable	ZDECL	ZT26	18091907	2019.11.01

4.2. Electrostatic Discharge Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	ESD Simulator	TESTQ	NSG437	329	2019.10.30

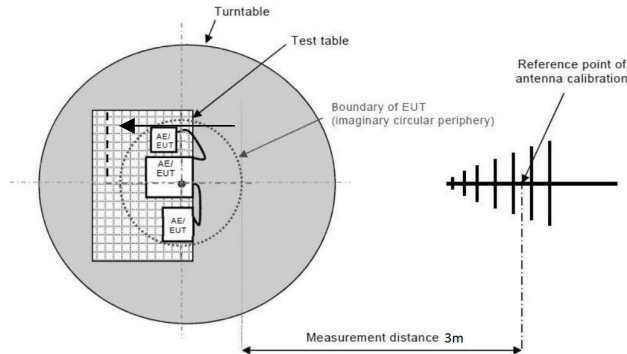
4.3. RF electromagnetic field Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Signal Generator	R&S	SMT 06	832080/007	2019.10.30
2	Log-Bicon Antenna	Schwarzbeck	VULB9161	4022	2019.10.30
3	Power Amplifier	AR	150W1000M1	320946	2019.10.30
4	Microwave Horn Antenna	AR	AT4002A	321467	2019.10.30
5	Power Amplifier	AR	25S1G4A	308598	2019.10.30

5. Radiated emissions at frequencies up to 1 GHz

5.1. Block diagram of test setup

In semi-Anechoic Chamber (frequencies up to 1 GHz)



5.2. Limit

Requirements for radiated emissions at frequencies up to 1 GHz for class B equipment

Frequency range MHz	Measurement			Class B limits dB(μV/m)
	Facility	Distance m	Detector type / bandwidth	
30 to 230	SAC	3	Quasi Peak / 120 kHz	40
230 to 1 000				47

5.3. EUT configuration on test

The EN 55032 regulations test method must be used to find the maximum emission during radiated emission test.

5.4. Operating condition of EUT

- 5.4.1. Setup the EUT as shown on Section 5.1.
- 5.4.2. Turn on the power of all equipments.
- 5.4.3. Let the EUT work in test mode and measure it.

5.5. Test procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The Boundary of EUT (imaginary circular periphery) is set 3 meters away from the receiving antenna (Reference point of antenna calibration) which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antennas (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarizations of the antenna are set on test.

The bandwidth setting on the test receiver (R&S ESPI) reference 5.2.

The EUT is tested in Semi-Anechoic Chamber.

The Test results are listed in Section 5.6.

5.6. Test results

PASS.

Please refer to the following page.

Polarization: H

Model No.: KB130N-V8(micro usb)



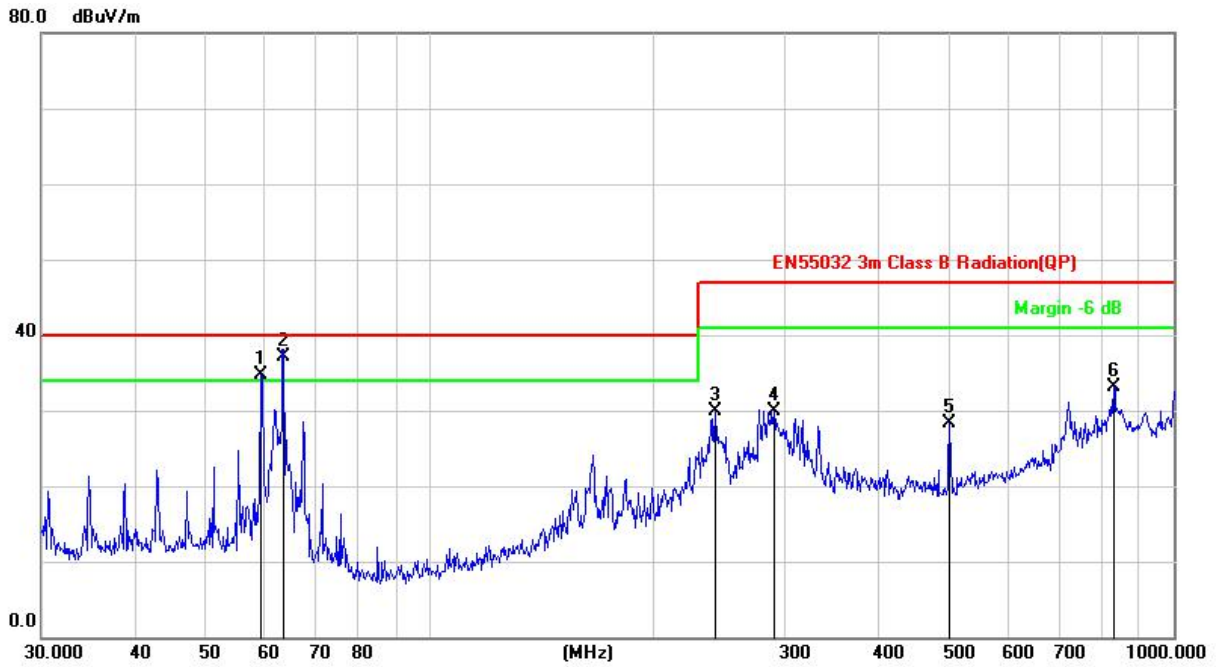
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1	*	61.7781	45.73	-13.43	32.30	40.00	-7.70			peak
2		178.7584	44.19	-13.52	30.67	40.00	-9.33			peak
3		239.1473	53.55	-14.26	39.29	47.00	-7.71			peak
4		332.5187	39.18	-10.50	28.68	47.00	-18.32			peak
5		497.6765	33.23	-6.36	26.87	47.00	-20.13			peak
6		747.4825	33.53	-0.47	33.06	47.00	-13.94			peak

Model No.: KB130N-I5(iphone)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		64.4330	46.00	-13.90	32.10	40.00	-7.90	peak			
2	!	162.6106	46.61	-12.12	34.49	40.00	-5.51	peak			
3	*	187.7529	50.01	-14.59	35.42	40.00	-4.58	peak			
4		277.0935	50.55	-12.07	38.48	47.00	-8.52	peak			
5		716.6820	38.12	-1.25	36.87	47.00	-10.13	peak			

Model No.: KB130N-TC(type-c)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1	!	59.2325	47.88	-13.09	34.79	40.00	-5.21			peak
2	*	63.5356	50.93	-13.73	37.20	40.00	-2.80	150	360	QP
3		241.6763	44.00	-14.09	29.91	47.00	-17.09			peak
4		290.0172	41.56	-11.70	29.86	47.00	-17.14			peak
5		499.4247	34.58	-6.32	28.26	47.00	-18.74			peak
6		830.4002	32.39	0.67	33.06	47.00	-13.94			peak

Note: Result=Reading + Factor
 Over Limit=Result - Limit

Polarization: V

Model No.: KB130N-V8(micro usb)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1	*	61.7781	50.00	-13.43	36.57	40.00	-3.43			peak
2		170.7926	40.70	-12.41	28.29	40.00	-11.71			peak
3		243.3772	48.16	-14.03	34.13	47.00	-12.87			peak
4		499.4247	34.55	-6.32	28.23	47.00	-18.77			peak
5		833.3171	30.76	0.70	31.46	47.00	-15.54			peak
6		912.8620	30.12	1.32	31.44	47.00	-15.56			peak

Model No.: KB130N-I5(iphone)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Antenna Height cm	Table Degree	Comment
1		63.5356	46.38	-13.73	32.65	40.00	-7.35	peak		
2		112.5241	44.51	-15.01	29.50	40.00	-10.50	peak		
3		163.7547	45.21	-12.16	33.05	40.00	-6.95	peak		
4	*	281.9945	53.09	-11.93	41.16	47.00	-5.84	peak		
5		499.4245	34.50	-6.32	28.18	47.00	-18.82	peak		
6		833.3170	31.06	0.70	31.76	47.00	-15.24	peak		

Model No.: KB130N-TC(type-c)



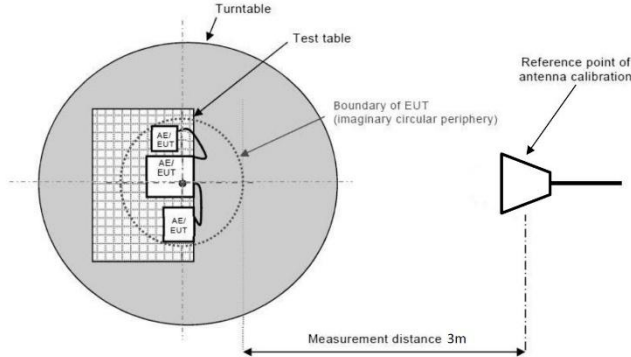
No.	Mk.	Freq.	Reading	Correct	Measurement	Limit	Over	Antenna	Table	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Height	Degree	Comment
1	*	61.5618	46.91	-13.41	33.50	40.00	-6.50	peak		
2		164.9075	34.99	-12.18	22.81	40.00	-17.19	peak		
3		241.6763	38.87	-14.09	24.78	47.00	-22.22	peak		
4		501.1790	35.86	-6.29	29.57	47.00	-17.43	peak		
5		716.6820	32.88	-1.25	31.63	47.00	-15.37	peak		
6		912.8620	30.46	1.32	31.78	47.00	-15.22	peak		

Note: Result=Reading + Factor
Over Limit=Result - Limit

6. Radiated emissions at frequencies above 1 GHz

6.1. Block diagram of test setup

In semi-Anechoic Chamber (frequencies above 1 GHz)



6.2. Limit

Requirements for radiated emissions at frequencies above 1 GHz for class B equipment

Frequency range MHz	Measurement			Class B limits dB(μV/m)
	Facility	Distance m	Detector type / bandwidth	
1000 to 3000	FSOATS	3	Average / 1 MHz	54
3000 to 6000				50
1000 to 3000			Peak / 1 MHz	70
3000 to 6000				74

6.3. EUT configuration on test

The EN 55032 regulations test method must be used to find the maximum emission during radiated emission test.

6.4. Operating condition of EUT

- 6.4.1. Setup the EUT as shown on Section 6.1.
- 6.4.2. Turn on the power of all equipments.
- 6.4.3. Let the EUT work in test mode and measure it.

6.5. Test procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The Boundary of EUT (imaginary circular periphery) is set 3 meters away from the receiving antenna (Reference point of antenna calibration) which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set on test.

The bandwidth setting on the test receiver (R&S ESPI) reference 6.2.

The EUT is tested in Semi-Anechoic Chamber.

The Test results are listed in Section 6.6.

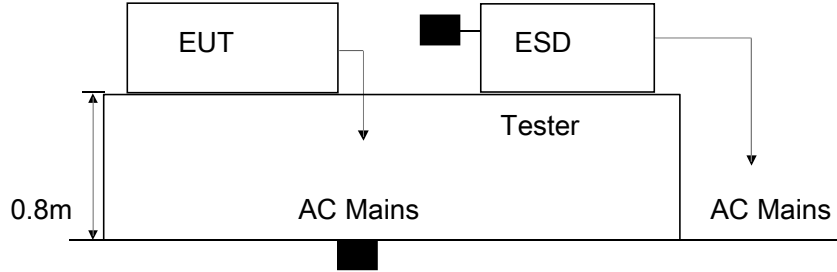
6.6. Test results

N/A

Fx < 108MHz, no need to do this test.

7. Electrostatic discharges (ESD)

7.1. Block diagram of ESD test setup



Remark: is Discharge Electrode

7.2. Test standard and Levels and Performance Criterion

EN 55035: 2017 (EN 61000-4-2:2009)

Characteristics	Test levels
Air discharge	±8 kV
Contact discharge	±4 kV

Performance criterion: **B**

7.3. EUT configuration on test

The configuration of EUT are listed in Section 3.4.

7.4. Operating condition of EUT

- 7.4.1. Setup the EUT as shown in Section 7.1.
- 7.4.2. Turn on the power of all equipments.
- 7.4.3. Let the EUT work in test mode (full load) and test it.

7.5. Test procedure

7.5.1. Air discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

7.5.2. Contact discharge:

All the procedure shall be same as Section 9.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

7.5.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

7.5.4. Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

7.6. Test results

PASS.

Test results for electrostatic discharge (ESD)

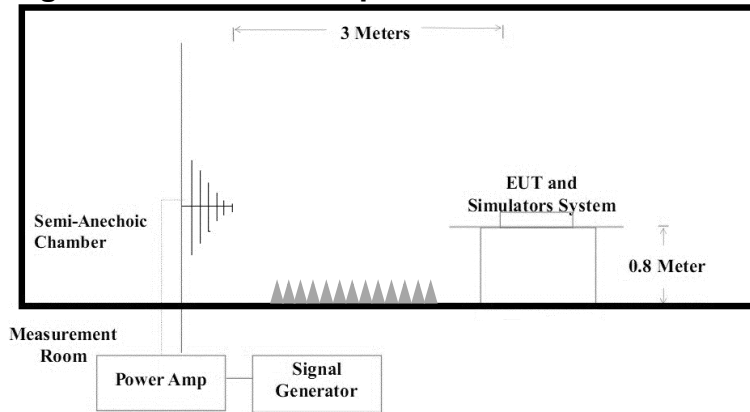
Operating mode..... :		Working				
Model(s)		KB130N-V8(micro usb)				
No.	Location of discharge	Polarity	Discharge	Number of discharges	Test level kV	Observations
1	HCP top side	P&N	C	25	4	N/A
3	HCP bottom side	P&N	C	25	4	N/A
5	VCP right side	P&N	C	25	4	N/A
7	VCP left side	P&N	C	25	4	N/A
9	Points on conductive surface	P&N	C	25	4	N/A
10	Points on non-conductive surface	P&N	A	10	8	N/A
HCP = Horizontal coupling plate VCP = Vertical coupling plate N = Negative P = Positive A = Air discharge C = Contact discharge						

Operating mode..... :		Working				
Model(s)		KB130N-I5(iphone)				
No.	Location of discharge	Polarity	Discharge	Number of discharges	Test level kV	Observations
1	HCP top side	P&N	C	25	4	N/A
3	HCP bottom side	P&N	C	25	4	N/A
5	VCP right side	P&N	C	25	4	N/A
7	VCP left side	P&N	C	25	4	N/A
9	Points on conductive surface	P&N	C	25	4	N/A
10	Points on non-conductive surface	P&N	A	10	8	N/A
HCP = Horizontal coupling plate VCP = Vertical coupling plate N = Negative P = Positive A = Air discharge C = Contact discharge						

Operating mode..... :		Working				
Model(s)		KB130N-TC(type-c)				
No.	Location of discharge	Polarity	Discharge	Number of discharges	Test level kV	Observations
1	HCP top side	P&N	C	25	4	N/A
3	HCP bottom side	P&N	C	25	4	N/A
5	VCP right side	P&N	C	25	4	N/A
7	VCP left side	P&N	C	25	4	N/A
9	Points on conductive surface	P&N	C	25	4	N/A
10	Points on non-conductive surface	P&N	A	10	8	N/A
HCP = Horizontal coupling plate VCP = Vertical coupling plate N = Negative P = Positive A = Air discharge C = Contact discharge						

8. Continuous RF electromagnetic field disturbances

8.1. Block diagram of R/S test setup



8.2. Test standard and Levels and Performance Criterion

EN 55035: 2017 (EN 61000-4-3:2006+A1:2008+A2:2010)

Characteristics	Test levels
Frequency range	80 MHz to 1 000 MHz
Test level	3 V/m (unmodulated)
Modulation	1 kHz, 80 % AM, sine wave

Performance criterion: **A**

8.3. Operating condition of EUT

Setup the EUT as shown in Section 10.1. The operating conditions of EUT are listed in section 3.4.

8.4. Test procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarizations of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to determine the performance of EUT, a CCD camera is used to monitor the EUT. All the scanning conditions are follows:

Condition of Test	Remarks
1. Field Strength	3V/m (Test Level 2)
2. Amplitude Modulated	1kHz, 80%AM, sine wave
3. Scanning Frequency	80MHz-1000MHz
4. Step Size	1%increments
5. The Rate of Sweep	0.0015 decade/s
6. Dwell Time	3 Sec.

8.5. Test results

PASS.

Please refer to the following page.

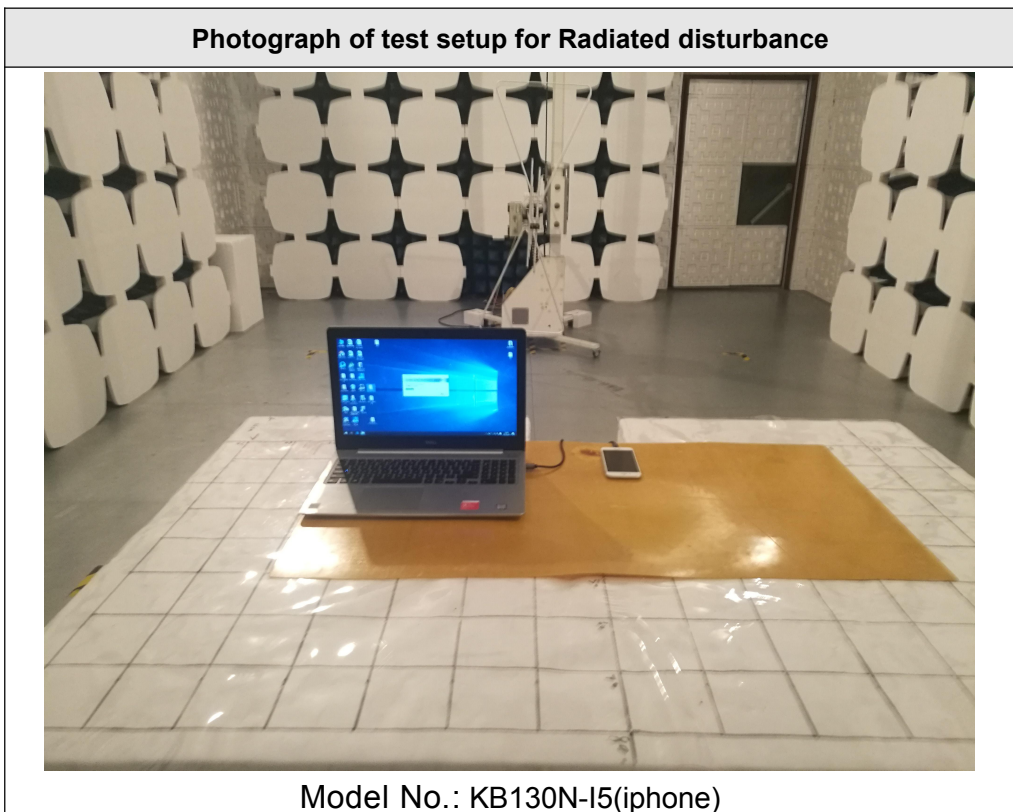
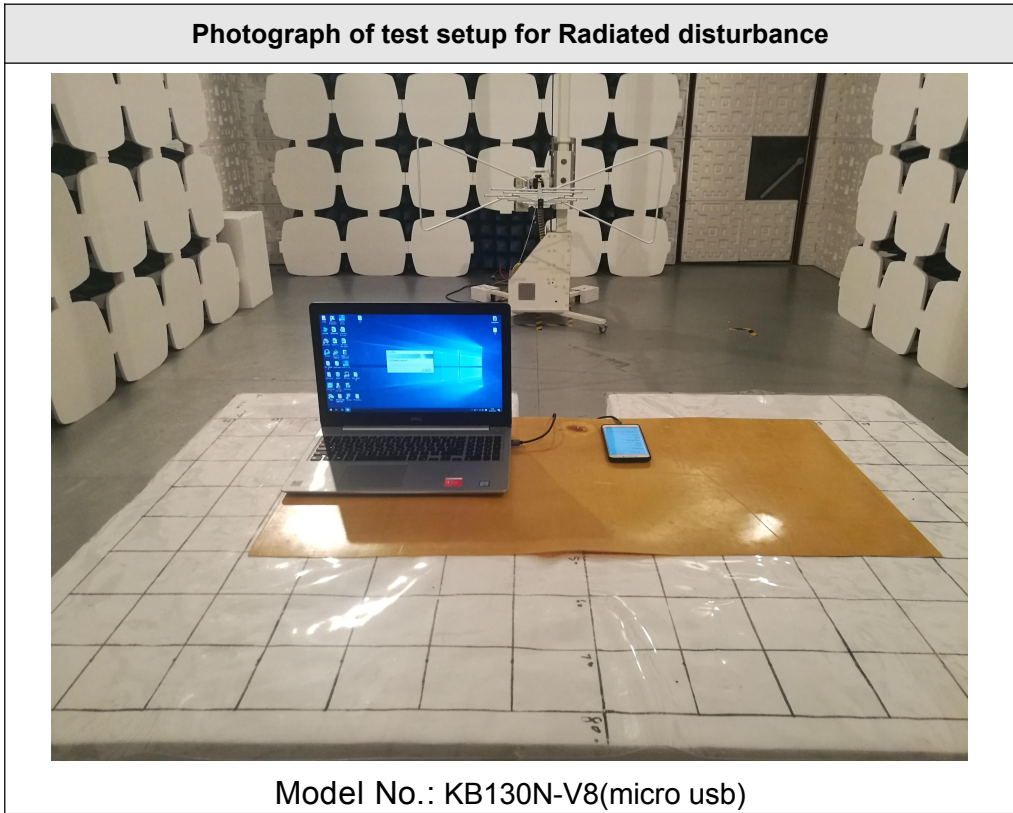
Test results for Continuous RF electromagnetic field disturbances

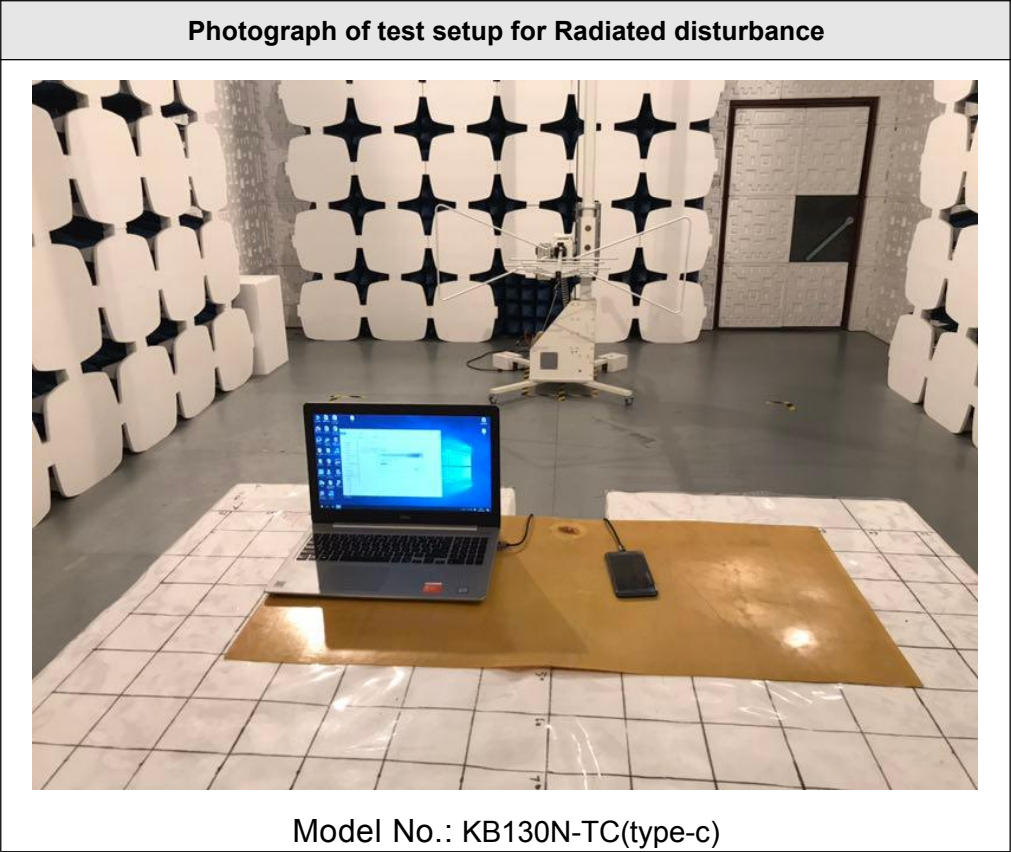
Operating mode..... :	Working	
Model(s)	KB130N-V8(micro usb)	
Field Strength..... :	3V/m	
Frequency Range..... :	80MHz to 1000MHz	
Modulation..... :	<input checked="" type="checkbox"/> 80 % AM with 1 kHz sine wave <input type="checkbox"/> Pulse <input type="checkbox"/> None	
Step size [%]..... :	1%	
Dwell time..... :	3Sec	
Performance criterion..... :	A	
	Horizontal	Vertical
Front	PASS	PASS
Right Side	PASS	PASS
Left Side	PASS	PASS
Rear	PASS	PASS

Operating mode..... :	Working	
Model(s)	KB130N-I5(iphone)	
Field Strength..... :	3V/m	
Frequency Range..... :	80MHz to 1000MHz	
Modulation..... :	<input checked="" type="checkbox"/> 80 % AM with 1 kHz sine wave <input type="checkbox"/> Pulse <input type="checkbox"/> None	
Step size [%]..... :	1%	
Dwell time..... :	3Sec	
Performance criterion..... :	A	
	Horizontal	Vertical
Front	PASS	PASS
Right Side	PASS	PASS
Left Side	PASS	PASS
Rear	PASS	PASS

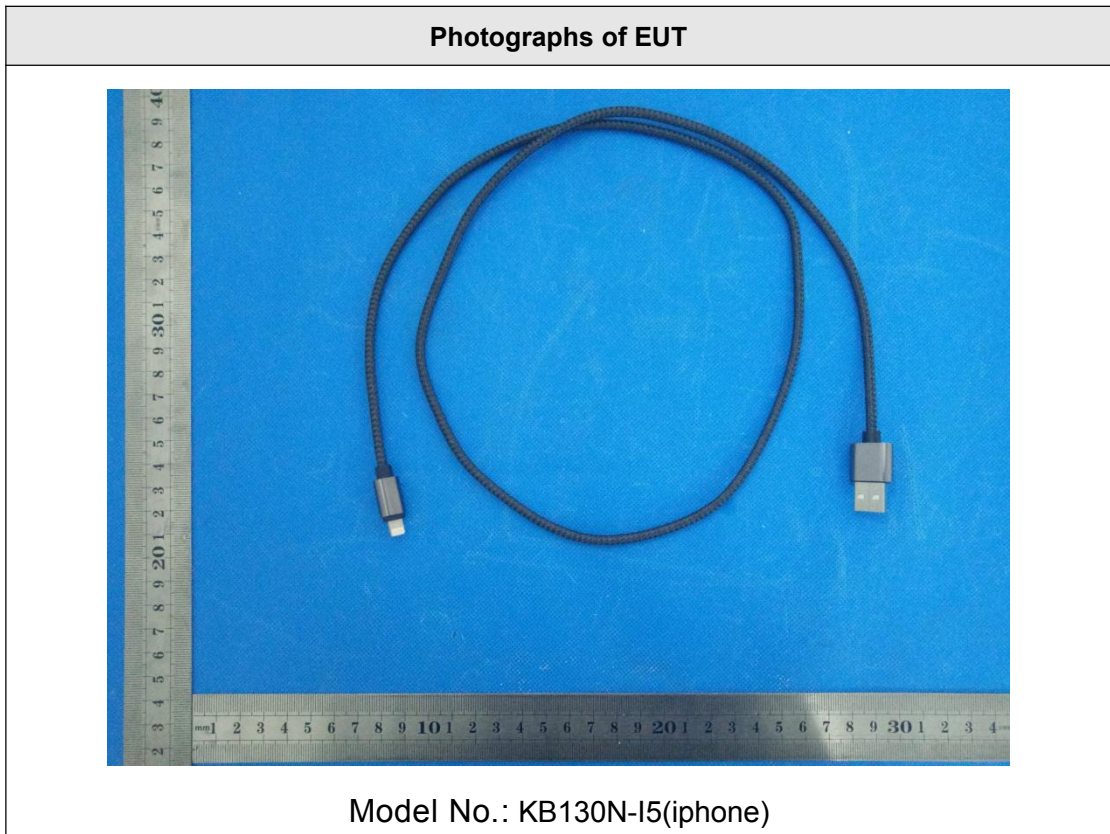
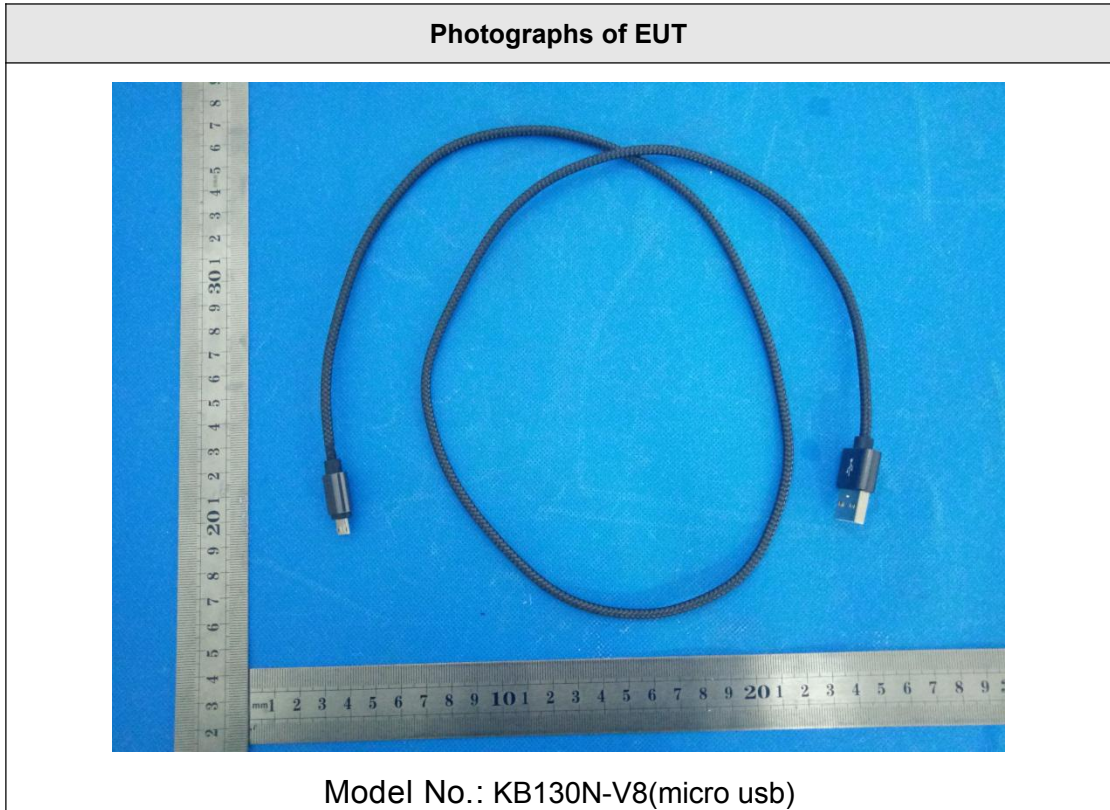
Operating mode..... :	Working	
Model(s)	KB130N-TC(type-c)	
Field Strength..... :	3V/m	
Frequency Range..... :	80MHz to 1000MHz	
Modulation..... :	<input checked="" type="checkbox"/> 80 % AM with 1 kHz sine wave <input type="checkbox"/> Pulse <input type="checkbox"/> None	
Step size [%]..... :	1%	
Dwell time..... :	3Sec	
Performance criterion..... :	A	
	Horizontal	Vertical
Front	PASS	PASS
Right Side	PASS	PASS
Left Side	PASS	PASS
Rear	PASS	PASS

9. Photographs of test setup

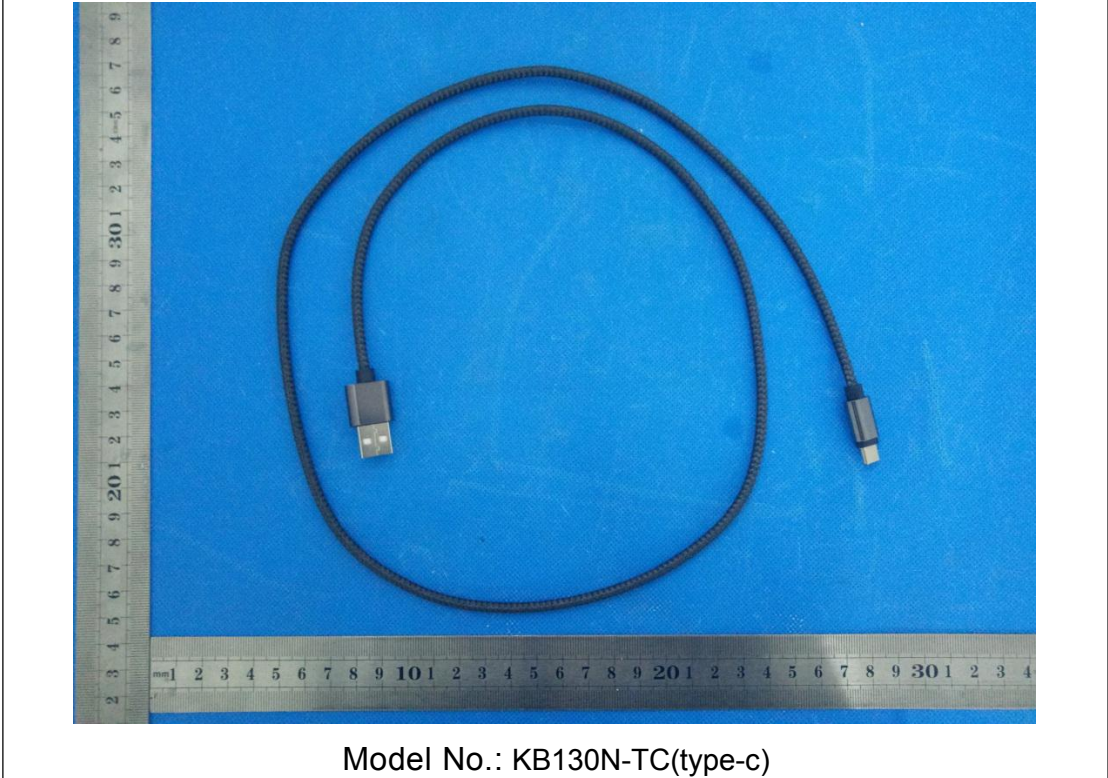




10. Photographs of EUT



Photographs of EUT



End of report