

# TEST REPORT

## KCTL KCTL Inc.

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Report No.:  
KR20-SRF0290-A  
Page (1) of (19)

**KCTL**

### 1. Client

- Name : Smart Guardians Inc.
- Address : #B-1425, 344, Yangcheon-ro, Gangseo-gu, Seoul 07791  
South Korea
- Date of Receipt : 2020-10-20

2. Use of Report : Certification

3. Name of Product / Model : BeraShield Charger / BC03AI01

4. Manufacturer / Country of Origin : SHENZHEN UNIL ELECTRONICS  
TECHNOLOGY CO LTD / China

5. FCC ID : 2AXTGB03AI01

6. Date of Test : 2020-11-02 to 2020-11-10

7. Location of Test :  Permanent Testing Lab  On Site Testing (Address: Address of testing location)

8. Test method used : FCC Part 15 Subpart C, 15.209

9. Test Results : Refer to the test result in the test report

Affirmation	Tested by  Name : Sumin Kim  	Technical Manager  Name : Heesu Ahn  
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2020-11-26

**KCTL Inc.**

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**REPORT REVISION HISTORY**

Date	Revision	Page No
2020-11-18	Originally issued	-
2020-11-26	Updated	5, 7, 8, 10-13

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Note. The report No. KR20-SRF0290 is superseded by the report No. KR20-SRF0290-A.

**General remarks for test reports**

Nothing significant to report.

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## 1. General information

Client : Smart Guardians Inc.  
Address : #B-1425, 344, Yangcheon-ro, Gangseo-gu, Seoul 07791 South Korea  
Manufacturer : SHENZHEN UNIL ELECTRONICS TECHNOLOGY CO LTD  
Address : 2/F, B2 Building Huaxiayuan Industrial Zone, Fuping Road, Pingdi Town, Longgang District, Shenzhen City, China  
Laboratory : KCTL Inc.  
Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea  
Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132  
VCCI Registration No. : R-20080, G-20078, C-20059, T-20056  
Industry Canada Registration No. : 8035A  
KOLAS No.: KT231

## 2. Device information

Equipment under test : BeraShield Charger  
Model : BC03AI01  
Frequency range : 111 kHz ~ 129 kHz  
Modulation technique : AM  
Number of channels : 1 ch  
Power source : DC 5 V, DC 9 V  
Antenna specification : Coil Antenna  
Software version : Rev 1.0  
Hardware version : Rev 1.0  
Operation temperature : -20 °C ~ 50 °C

## 2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source
AC Adaptor	Dongguan Samsung Electro-mechanics Co., Ltd.	EP-TA20KWK	R37G2V66K91SE3	INPUT : AC 100-240V 50-60 Hz OUTPUT : DC 9.0V 1.67A or DC 5.0V 2.0A
C-type cable	-	-	-	-
Test JIG (Load module)	-	-	-	-
Wireless Charger	SHENZHEN UNIL ELECTRONICS TECHNOLOGY CO LTD	BC02AI01	-	-

## 2.2. Frequency/channel operations

This device contains the following capabilities:

WPT

Frequency (kHz)
111 ~ 129

Table 2.2.1 WPT

### **3. Antenna requirement**

#### **Requirement of FCC part section 15.203:**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

- The transmitter has permanently attached Coil antenna (Internal antenna) on board.

#### 4. Summary of tests

FCC Part section(s)	Parameter	Test results
15.209(a)	Field Strength of Fundamental and Spurious Emission	Pass
2.1049	20dB Bandwidth	Pass
15.203	Antenna requirement	Pass
15.207(a)	Conducted Emission	Pass <sup>(Note 1)</sup>

**Notes:**

1. For the AC line conducted test, all test case was performed with the AC adaptor connected.
2. These tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
3. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **X** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **X** orientation.
4. The test procedure(s) in this report were performed in accordance as following.
  - ◆ ANSI C63.10-2013
5. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.
6. The radiated test was performed with and without test jig(load module). The test results shown in the following sections represent the worst case emissions.

Worst Case : With test jig(load module)

#### 5. Measurement uncertainty

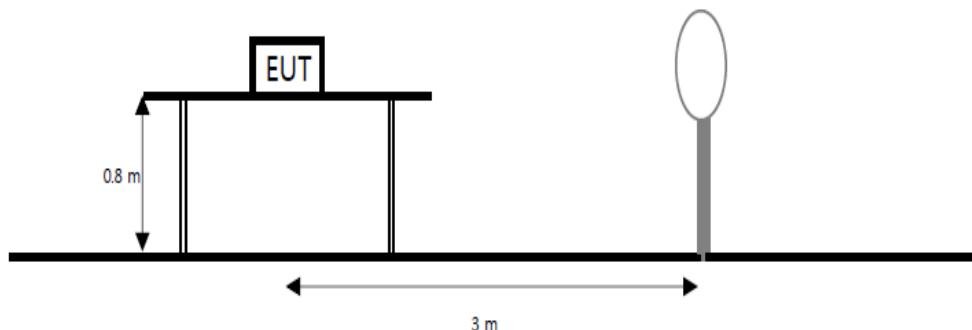
The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of  $k=2$  to indicated a 95 % level of confidence. The measurement data shown herein meets or exceeds the  $U_{CISPR}$  measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty ( $\pm$ )	
Radiated spurious emissions	9 kHz ~ 30 MHz	2.3 dB
Conducted emissions	9 kHz ~ 150 kHz	3.7 dB
	150 kHz ~ 30 MHz	3.3 dB

**6. Test results****6.1. Field Strength of Fundamental and Spurious Emission****Test setup**

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions

**Limit**

According to section 15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength ( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	$24000/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

\*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., Section 15.231 and 15.241.

**Test cases**

Test case	Description
1	Input voltage : DC 5V, with Test JIG
2	Input voltage : DC 9V, with Test JIG
3	Input voltage : DC 5V, with BC02AI01
4	Input voltage : DC 9V, with BC02AI01

**Test procedure**

ANSI C63.10-2013

**Test settings****Test Procedures for emission from 9 kHz to 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- d. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode.
- e. Below 30 MHz frequency range, all orientations about parallel, perpendicular, and ground-parallel were investigated then reported and the worse orientations of Face-on and Face-off were set for final test.
  - Face-on = Parallel, Face-off = Perpendicular

**Notes:**

1.  $f < 30 \text{ MHz}$ , extrapolation factor of 40 dB/decade of distance.  $F_d = 40 \log(D_m/D_s)$

Where:

 $F_d$  = Distance factor in dB $D_m$  = Measurement distance in meters $D_s$  = Specification distance in meters

2. The test measurement distance is 3 meter

3. Limit (dB( $\mu$ V/m)) = For 0.009 MHz - 0.490 MHz,  $20 \log(2400/F(\text{kHz}))$  dB( $\mu$ V/m)  
For 0.490 MHz - 1.705 MHz,  $20 \log(24000/F(\text{kHz}))$  dB( $\mu$ V/m)  
For 1.705 MHz - 30 MHz,  $20 \log(30) = 29.54$  dB( $\mu$ V/m)

**Test results****Radiated Emissions Fundamental & 9 kHz to 30 MHz Test case 1**

[Face-on]

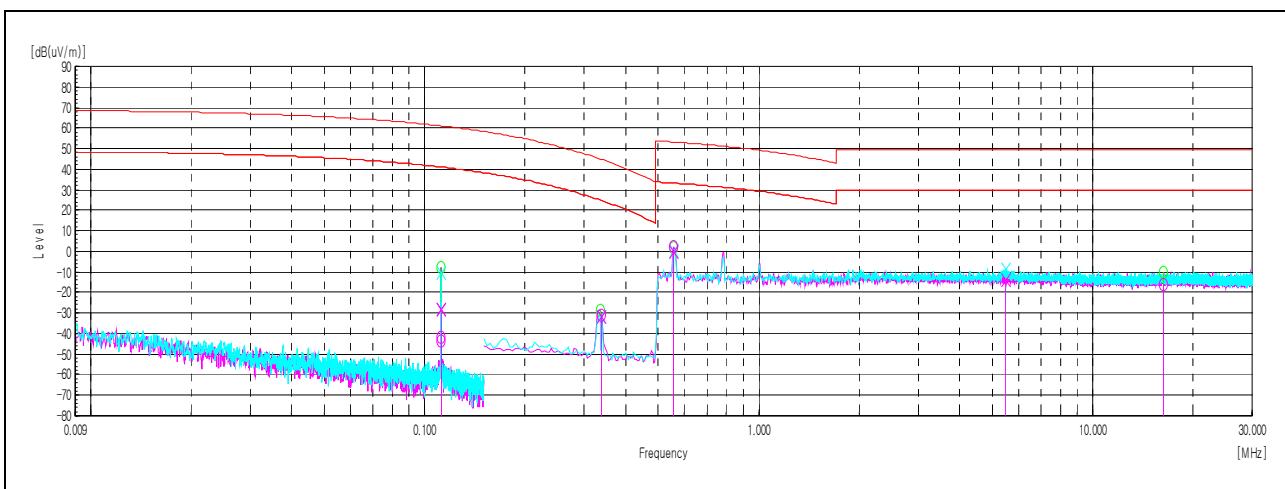
Frequency	Reading	Detector	Ant. Factor	Amp. + Cable	Distance factor	Factor	Result	Limit	Margin
(MHz)	(dB(μV))	Mode	(dB)	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
0.112	48.8	AV	19.9	-32.4	-80.0	-92.5	-43.7	41.1	84.8
0.112	50.7	PK	19.9	-32.4	-80.0	-92.5	-41.8	61.1	102.9
0.337	61.7	AV	19.9	-32.4	-80.0	-92.5	-30.8	24.8	55.6
0.557	55.0	QP	19.9	-32.4	-40.0	-52.5	2.6	33.2	30.7
16.310	34.6	QP	20.3	-31.2	-40.0	-50.9	-16.3	29.5	45.8

[Face-off]

Frequency	Reading	Detector	Ant. Factor	Amp. + Cable	Distance factor	Factor	Result	Limit	Margin
(MHz)	(dB(μV))	Mode	(dB)	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
0.112	64.2	AV	19.9	-32.4	-80.0	-92.5	-28.3	41.1	69.4
0.112	64.6	PK	19.9	-32.4	-80.0	-92.5	-27.9	61.1	89.0
0.337	60.7	AV	19.9	-32.4	-80.0	-92.5	-31.8	24.8	56.6
0.557	52.7	QP	19.9	-32.4	-40.0	-52.5	0.3	33.2	33.0
5.478	38.2	QP	20.3	-31.2	-40.0	-50.9	-12.7	29.5	42.2

**Note:**

1) Factor(dB) = Antenna Factor + Amp. Gain + Cable Loss + distance factor(dB)

2) -80 is distance factor =  $40 \times \log(3/300)$ , -40 is distance factor =  $40 \times \log(3/30)$ 

Radiated Emissions Fundamental & 9 kHz to 30 MHz Test case 2

[Face-on]

Frequency (MHz)	Reading (dB(µV))	Detector Mode	Ant. Factor (dB)	Amp. + Cable (dB)	Distance factor (dB)	Factor (dB)	Result (dB(µV/m))	Limit (dB(µV/m))	Margin (dB)
0.112	48.9	AV	19.9	-32.4	-80.0	-92.5	-43.6	41.1	84.7
0.112	51.3	PK	19.9	-32.4	-80.0	-92.5	-41.2	61.1	102.3
0.337	62.0	AV	19.9	-32.4	-80.0	-92.5	-30.5	24.8	55.3
0.557	56.1	QP	19.9	-32.4	-40.0	-52.5	3.7	33.2	29.6
27.687	38.4	QP	20.4	-30.9	-40.0	-50.5	-12.1	29.5	41.6

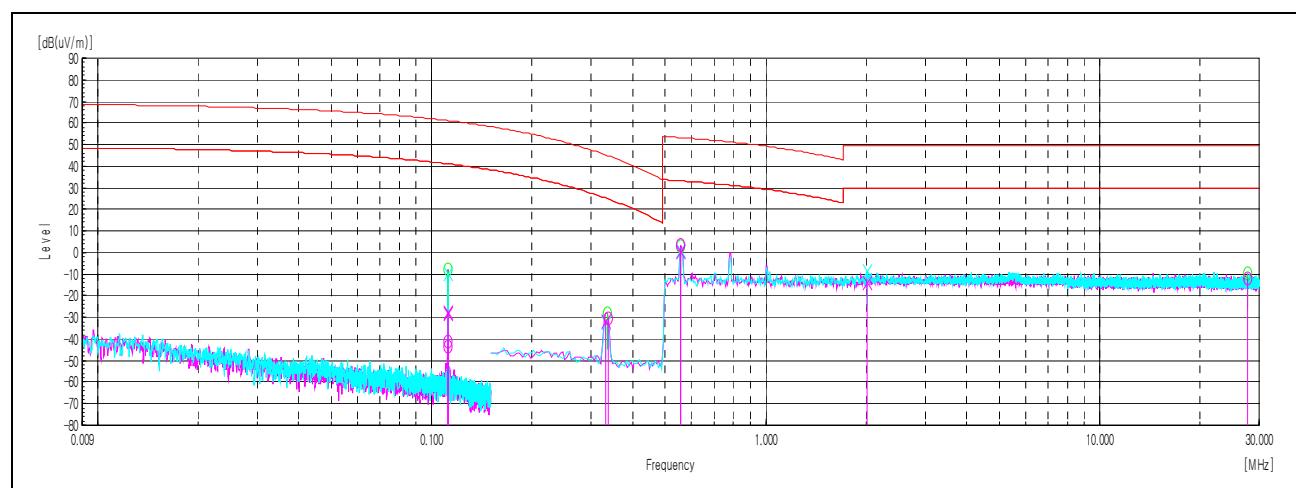
## [Face-off]

Frequency (MHz)	Reading (dB(µV))	Detector Mode	Ant. Factor (dB)	Amp. + Cable (dB)	Distance factor (dB)	Factor (dB)	Result (dB(µV/m))	Limit (dB(µV/m))	Margin (dB)
0.112	64.3	AV	19.9	-32.4	-80.0	-92.5	-28.2	41.1	69.3
0.112	64.8	PK	19.9	-32.4	-80.0	-92.5	-27.7	61.1	88.8
0.333	60.9	AV	19.9	-32.4	-80.0	-92.5	-31.6	24.8	56.4
0.557	53.2	QP	19.9	-32.4	-40.0	-52.5	0.8	33.2	32.5
2.008	38.5	QP	20.0	-32.1	-40.0	-52.1	-13.6	29.5	43.1

### Note:

<sup>1)</sup> Factor(dB) = Antenna Factor + Amp. Gain + Cable Loss + distance factor(dB)

<sup>2)</sup> -80 is distance factor =  $40 \cdot \log(3/300)$ , -40 is distance factor =  $40 \cdot \log(3/30)$



**Radiated Emissions Fundamental & 9 kHz to 30 MHz Test case 3**

[Face-on]

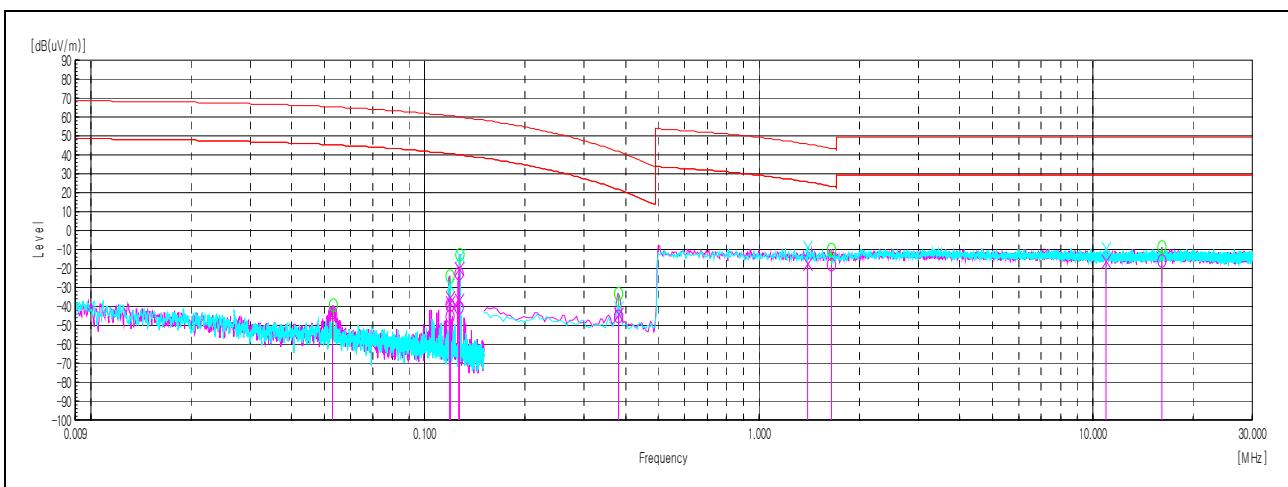
Frequency	Reading	Detector	Ant. Factor	Amp. + Cable	Distance factor	Factor	Result	Limit	Margin
(MHz)	(dB(µV))	Mode	(dB)	(dB)	(dB)	(dB)	(dB(µV/m))	(dB(µV/m))	(dB)
0.053	49.1	AV	20.1	-32.4	-80	-92.3	-43.2	45.3	88.5
0.119	47.1	AV	19.9	-32.4	-80	-92.5	-45.4	40.6	86.0
0.119	51.8	PK	19.9	-32.4	-80	-92.5	-40.7	60.6	101.3
0.127	51.8	AV	19.9	-32.4	-80	-92.5	-40.7	40.0	80.7
0.381	47.2	AV	19.9	-32.4	-80	-92.5	-45.3	21.7	67.0
1.650	34.5	QP	20.0	-32.2	-40	-52.2	-17.7	23.5	41.2
16.049	34.9	QP	20.3	-31.2	-40	-51.0	-16.1	29.5	45.6

[Face-off]

Frequency	Reading	Detector	Ant. Factor	Amp. + Cable	Distance factor	Factor	Result	Limit	Margin
(MHz)	(dB(µV))	Mode	(dB)	(dB)	(dB)	(dB)	(dB(µV/m))	(dB(µV/m))	(dB)
0.119	54.5	AV	19.9	-32.4	-80	-92.5	-38.0	40.6	78.6
0.119	57.5	PK	19.9	-32.4	-80	-92.5	-35.0	60.6	95.6
0.127	56.0	AV	19.9	-32.4	-80	-92.5	-36.5	40.0	76.5
0.381	48.3	AV	19.9	-32.4	-80	-92.5	-44.2	21.7	65.9
1.400	34.9	QP	19.9	-32.2	-40	-52.2	-17.3	25.7	43.0
10.967	35.0	QP	20.2	-31.5	-40	-51.3	-16.3	29.5	45.8

**Note:**

1) Factor(dB) = Antenna Factor + Amp. Gain + Cable Loss + distance factor(dB)

2) -80 is distance factor =  $40 \log(3/300)$ , -40 is distance factor =  $40 \log(3/30)$ 

**Radiated Emissions Fundamental & 9 kHz to 30 MHz Test case 4**

[Face-on]

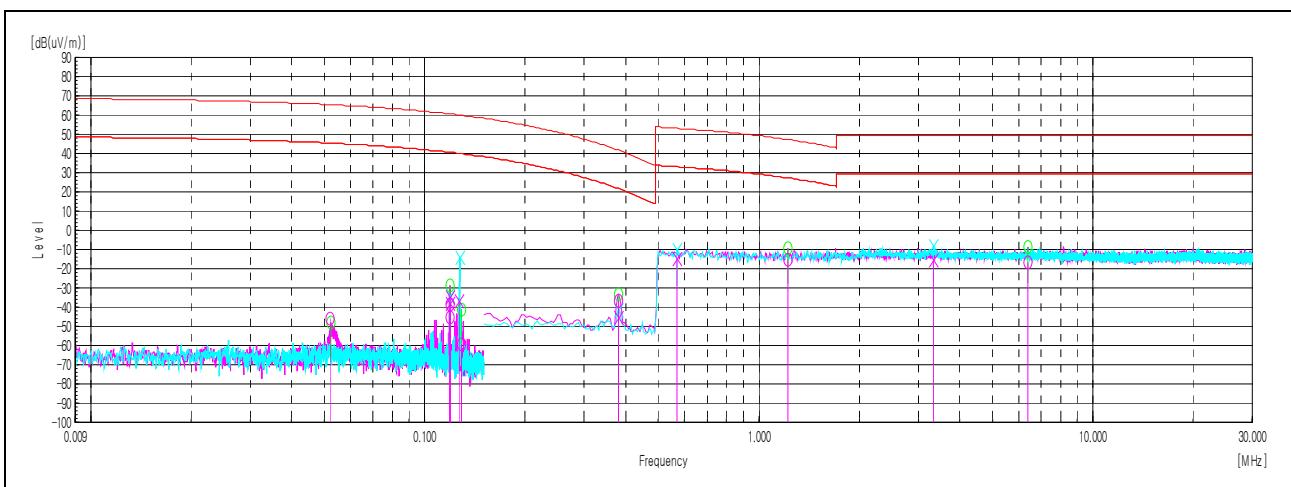
Frequency	Reading	Detector	Ant. Factor	Amp. + Cable	Distance factor	Factor	Result	Limit	Margin
(MHz)	(dB(µV))	Mode	(dB)	(dB)	(dB)	(dB)	(dB(µV/m))	(dB(µV/m))	(dB)
0.052	46.0	AV	20.1	-32.4	-80	-92.3	-46.3	45.3	91.6
0.119	47.1	AV	19.9	-32.4	-80	-92.5	-45.4	40.6	86.0
0.119	53.8	PK	19.9	-32.4	-80	-92.5	-38.7	60.6	99.3
0.129	33.5	AV	19.9	-32.4	-80	-92.5	-59.0	39.9	98.9
0.381	55.6	AV	19.9	-32.4	-80	-92.5	-36.9	21.7	58.6
1.221	36.7	QP	19.9	-32.2	-40	-52.3	-15.6	27.3	42.9
6.400	35.1	QP	20.1	-31.8	-40	-51.6	-16.5	29.5	46.0

[Face-off]

Frequency	Reading	Detector	Ant. Factor	Amp. + Cable	Distance factor	Factor	Result	Limit	Margin
(MHz)	(dB(µV))	Mode	(dB)	(dB)	(dB)	(dB)	(dB(µV/m))	(dB(µV/m))	(dB)
0.119	54.5	AV	19.9	-32.4	-80	-92.5	-38.0	40.6	78.6
0.119	57.6	PK	19.9	-32.4	-80	-92.5	-34.9	60.6	95.5
0.127	56.0	AV	19.9	-32.4	-80	-92.5	-36.5	40.0	76.5
0.381	47.4	AV	19.9	-32.4	-80	-92.5	-45.1	21.7	66.8
0.568	37.7	QP	19.9	-32.4	-40	-52.5	-14.8	33.1	47.9
3.333	36.4	QP	20.1	-32.0	-40	-51.9	-15.5	29.5	45.0

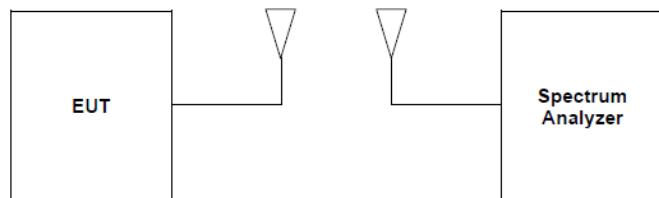
**Note:**

1) Factor(dB) = Antenna Factor + Amp. Gain + Cable Loss + distance factor(dB)

2) -80 is distance factor =  $40 \times \log(3/300)$ , -40 is distance factor =  $40 \times \log(3/30)$ 

## 6.2. 20dB Bandwidth

### Test setup



### Limit

For reporting purpose only

### Test settings

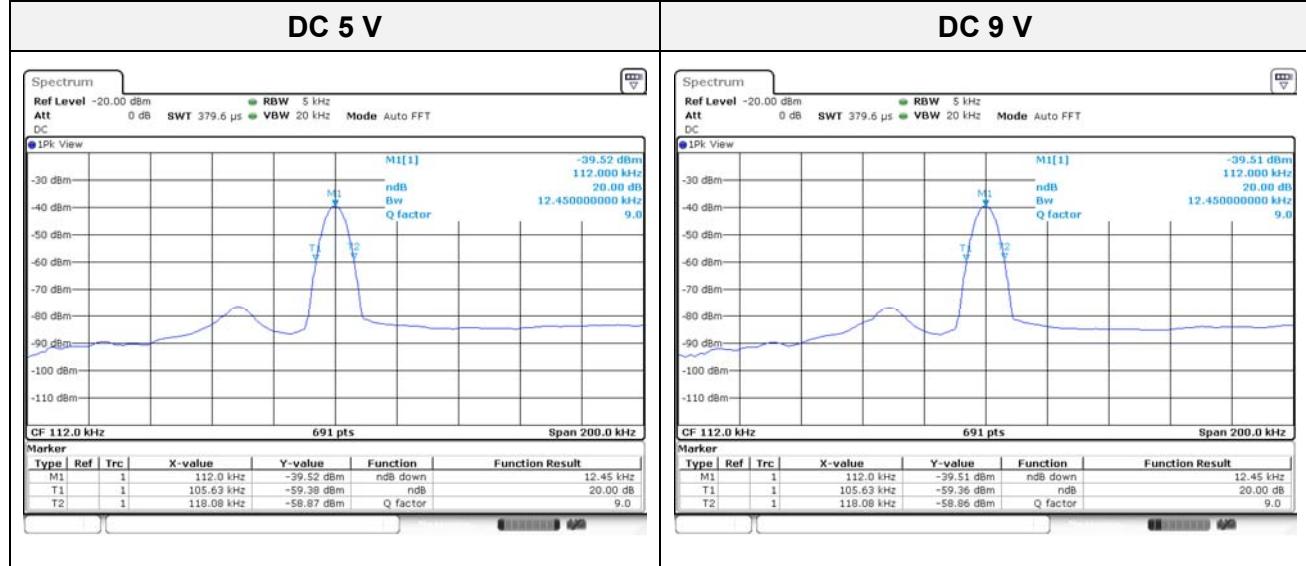
- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

A peak, or peak hold, may be used in place of the sampling detector as this may produce a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold may be necessary to determine the occupied bandwidth if the device is not transmitting continuously.

The trace data points are recovered and are directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded.

**Test results****20dB Bandwidth**

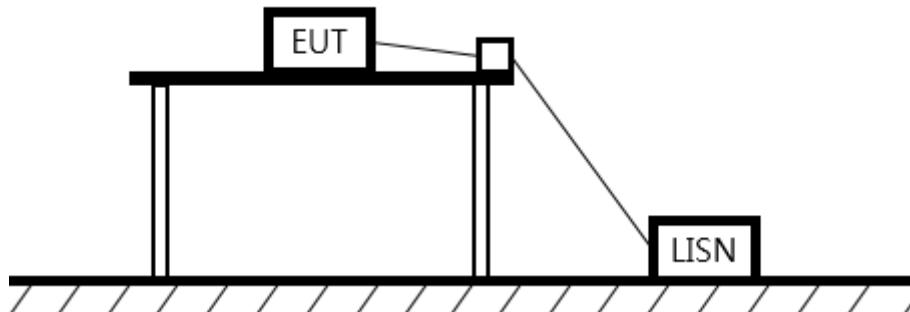
Frequency (kHz)	Mode	20dB Bandwidth (kHz)	Limit
112	DC 5 V	12.45	Reporting purpose only
	DC 9 V	12.45	Reporting purpose only

**Test Plots****Note:**

Because the measured signal is CW/CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

### **6.3. AC Conducted emission**

#### Test setup



#### Limit

According to 15.207(a), For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

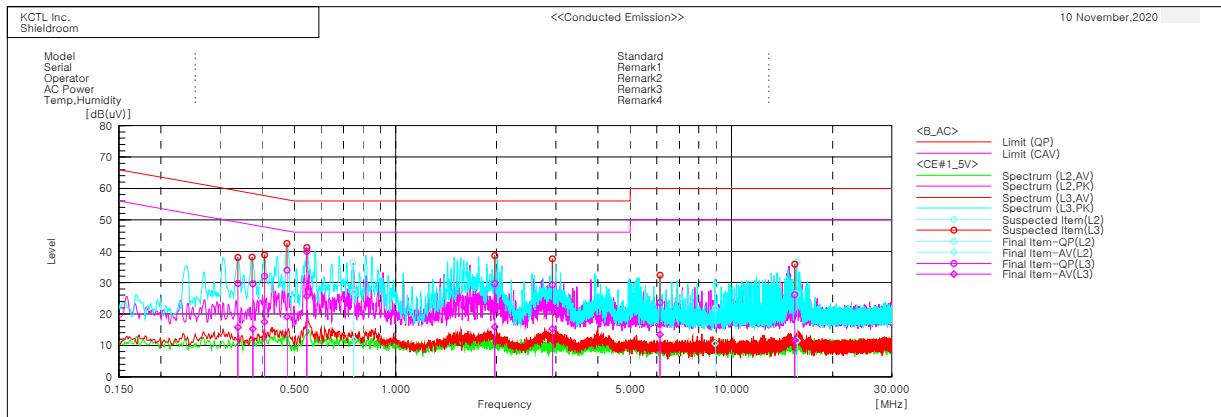
Frequency of Emission (MHz)	Conducted limit (dB $\mu$ V/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

#### Measurement procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50Ω/50μH LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 kHz or to quasi-peak and average within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

## Test results

### [DC 5 V]



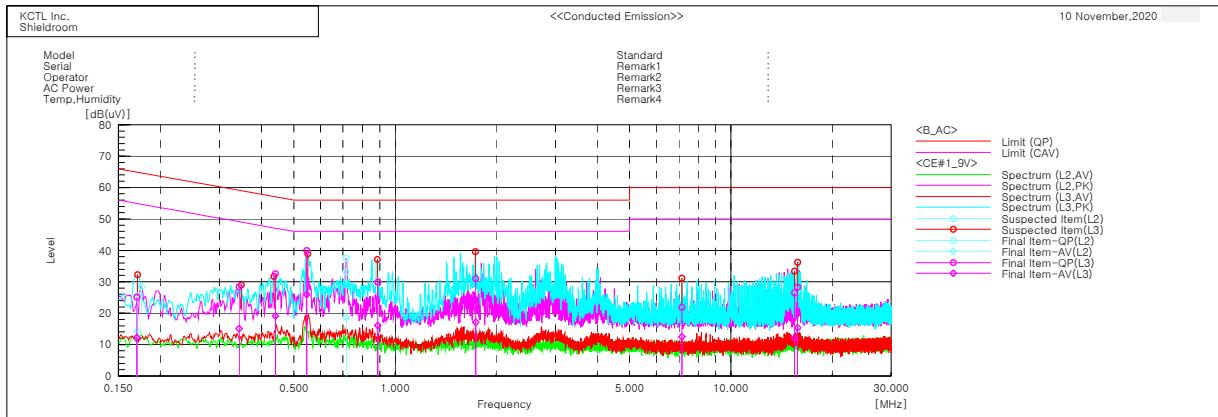
#### Final Result

--- L2 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f	Result QP [dB]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.75004	17.0	2.0		9.9	26.9	11.9	56.0	46.0	29.1
2	8.93569	11.7	0.5		10.1	21.8	10.6	60.0	50.0	38.2
3	15.70534	16.0	1.0		10.5	26.5	11.5	60.0	50.0	33.5

--- L3 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f	Result QP [dB]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.33897	19.9	5.8		9.9	29.8	15.7	59.2	49.2	29.4
2	0.37533	19.8	5.4		9.9	29.7	15.3	58.4	48.4	28.7
3	0.40701	22.1	7.6		10.0	32.1	17.6	57.7	47.7	25.6
4	0.47514	24.0	9.1		10.0	34.0	19.1	56.4	46.4	22.4
5	0.54385	30.0	15.7		10.0	40.0	25.7	56.0	46.0	16.0
6	1.97212	19.7	6.1		9.9	29.6	16.0	56.0	46.0	26.4
7	2.92939	19.5	5.4		9.9	29.4	15.3	56.0	46.0	26.6
8	6.12767	13.7	3.5		10.0	23.7	13.5	60.0	50.0	36.3
9	15.4367	15.6	1.1		10.5	26.1	11.6	60.0	50.0	33.9

**[DC 9 V]**

## Final Result

## --- L2 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f	Result QP [dB]	Result CAV [dB]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.171	15.3	4.0	10.2	25.5	14.2	64.9	54.9	39.4	40.7
2	0.71562	23.3	8.8	9.9	33.2	18.7	56.0	46.0	22.8	27.3
3	15.74701	16.7	4.2	10.5	27.2	14.7	60.0	50.0	32.8	35.3

## --- L3 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f	Result QP [dB]	Result CAV [dB]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.17028	14.9	2.0	10.2	25.1	12.2	64.9	54.9	39.8	42.7
2	0.34361	18.6	5.2	9.9	28.5	15.1	59.1	49.1	30.6	34.0
3	0.43988	22.6	9.1	10.0	32.6	19.1	57.1	47.1	24.5	28.0
4	0.54544	29.9	15.9	10.0	39.9	25.9	56.0	46.0	16.1	20.1
5	0.88782	19.9	6.2	9.9	29.8	16.1	56.0	46.0	26.2	29.9
6	1.74008	21.2	7.2	9.9	31.1	17.1	56.0	46.0	24.9	28.9
7	7.14591	11.8	2.5	10.0	21.8	12.5	60.0	50.0	38.2	37.5
8	15.47009	16.0	1.5	10.5	26.5	12.0	60.0	50.0	33.5	38.0
9	15.81067	17.8	4.8	10.5	28.3	15.3	60.0	50.0	31.7	34.7

**7. Measurement equipment**

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Vector Signal Generator	R&S	SMBV100A	257566	21.07.13
Signal Generator	R&S	SMB100A	176206	21.01.21
Spectrum Analyzer	R&S	FSV40	100988	21.01.10
Amplifier	L-3 Narda-MITEQ	AFS5-00101800-25-S-5	2054570	21.05.22
EMI TEST RECIEVER	R&S	ESCI7	100732	21.03.04
TWO-LINE V - NETWORK	R&S	ENV216	101584	21.04.06
EMI TEST RECEIVER	R&S	ESCI	101408	21.08.20
Loop Antenna	R&S	HFH2-Z2	100355	22.08.21
Attenuator	AGILENT	8491B-006	MY37270292	21.05.15
Amplifier	SONOMA	310N	284608	21.08.20
Antenna Mast	Innco Systems	MA4000-EP	303	N/A
Turn Table	Innco Systems	DT2000	79	N/A

**End of test report**