



TESTING LABORATORY
CERTIFICATE # 4297.01



FCC PART 15C


TEST REPORT

For

U2O GLOBAL CO., LTD.

Huanzhu Road No.385, 4 Floor, Jimei District, Xiamen, China.

FCC ID: 2AJN9-DBL10000M

Report Type: Original Report	Product Type: LinkMe 10000 Mag
Report Number: SZNS210930-51079E-RF	
Report Date: 2021-10-29	
Reviewed By: RF Engineer	
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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Product	LinkMe 10000 Mag
Tested Model	DBL10000M
Frequency Range	110 kHz-205kHz
Maximum Wireless Power	15W
Antenna Specification	Coil
Voltage Range	Internal parallel batteries: DC 3.7V Input USB-C: DC 5 V/3 A, DC 9 V/2A, DC 12 V/1.5 A Single Output USB-C: DC 5 V/3 A, DC 9 V/2A, DC 12 V/1.5 A Single Output Wireless Charging: 5W/7.5W/10W/15W
Date of Test	2021-10-22 to 2021-10-28
Sample serial number	SZNS210930-51079E-RF-S1
Received date	2021-09-30
Sample/EUT Status	Good Condition

Objective

This report is in accordance with Part 2, Subpart J, and Part 15, Subparts A and C of the Federal Communications Commission's rules.

The objective is to determine the compliance of EUT with FCC rules, section 15.203, 15.205, 15.207 and 15.209.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Expanded Measurement Uncertainty
Conducted Emissions	AC Mains	2.72 dB
Radiated emission	9kHz - 30MHz	2.66dB
	30MHz-1GHz	4.28 dB

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189.

The test site has been registered with ISED Canada under ISED Canada Registration Number 5077A-2.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a test mode

The device is a Link Me 10000Mag operation on frequency 110 kHz - 205 kHz.

Test Mode 1: Wireless Charging Load+ Type-C Load

Test Mode 2: Charging + Wireless Charging Load

Test Mode 3: Wireless Charging Load

Note: For tests mode 1&2, the maximum wireless charging output power is only up to 6W.

EUT Exercise Software

No software used in test.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	Specification
HUAWEI	Adapter	HW-059200CHQ	B68295GB220310	5V/2A or 9V/2A
Unknown	Dummy Load	50W 2R5J	Unknown	2.5 Ω
Unknown	Wireless load	Wireless load 01	Wireless load 01	5W/7.5W/10W/15W
Longxing	USB output power converter	LX-PD01	Unknown	Unknown

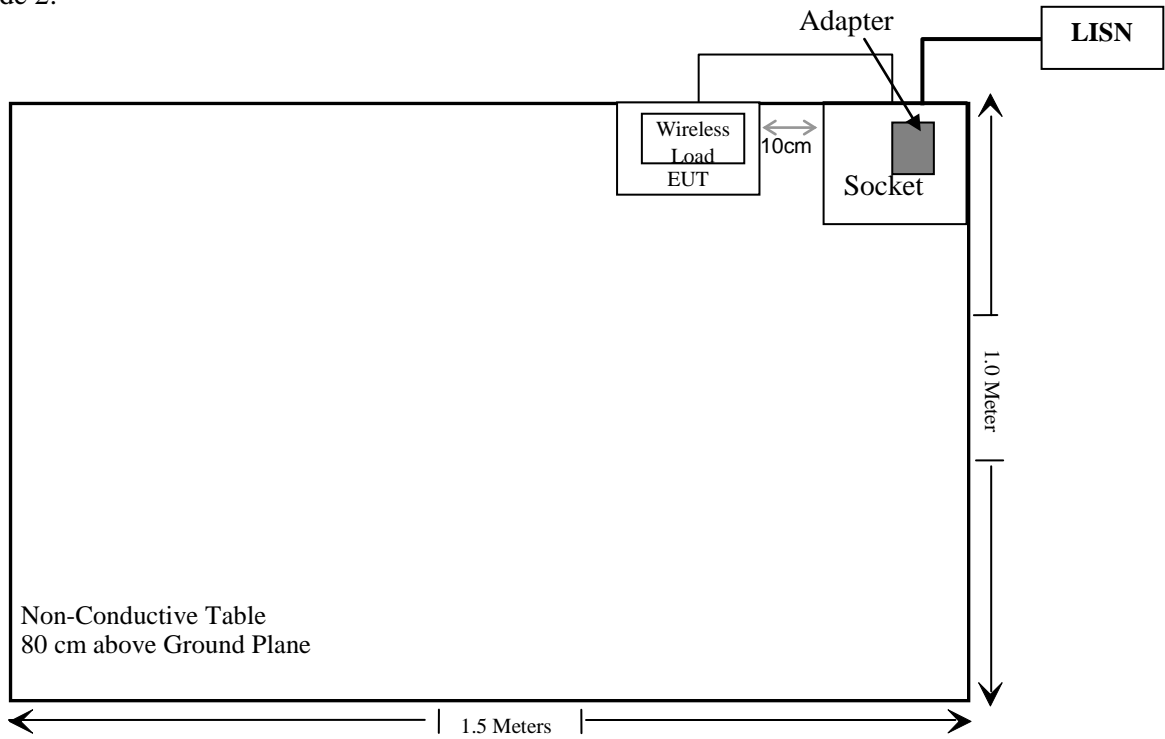
External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielded Detachable USB Cable	1.0	Adapter	EUT
Unshielded Detachable USB Cable	0.2	USB output power converter	Dummy Load

Block Diagram of Test Setup

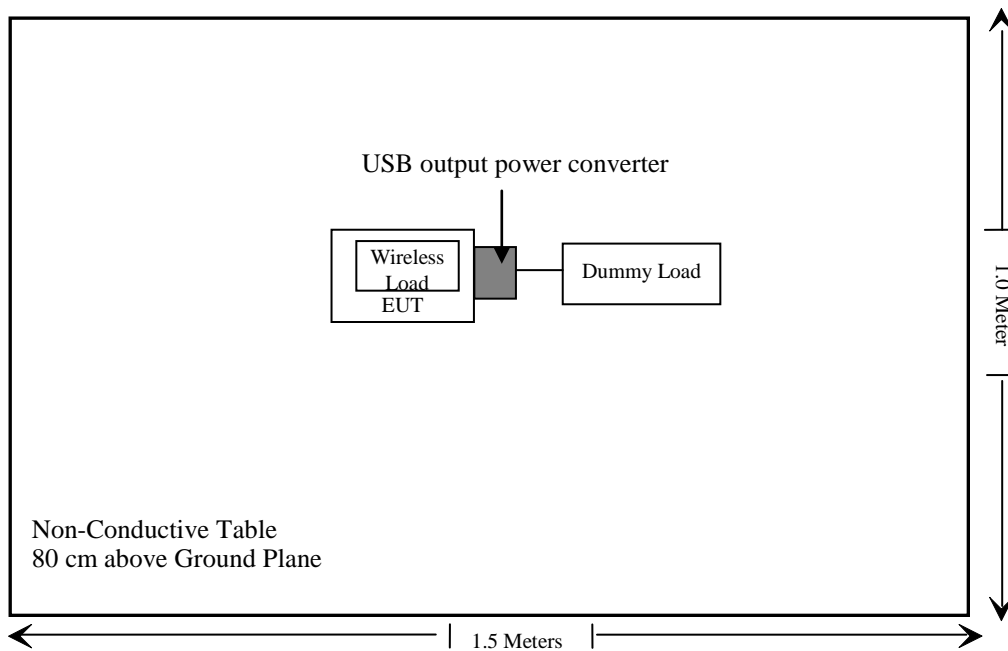
For conducted emission:

Test mode 2:

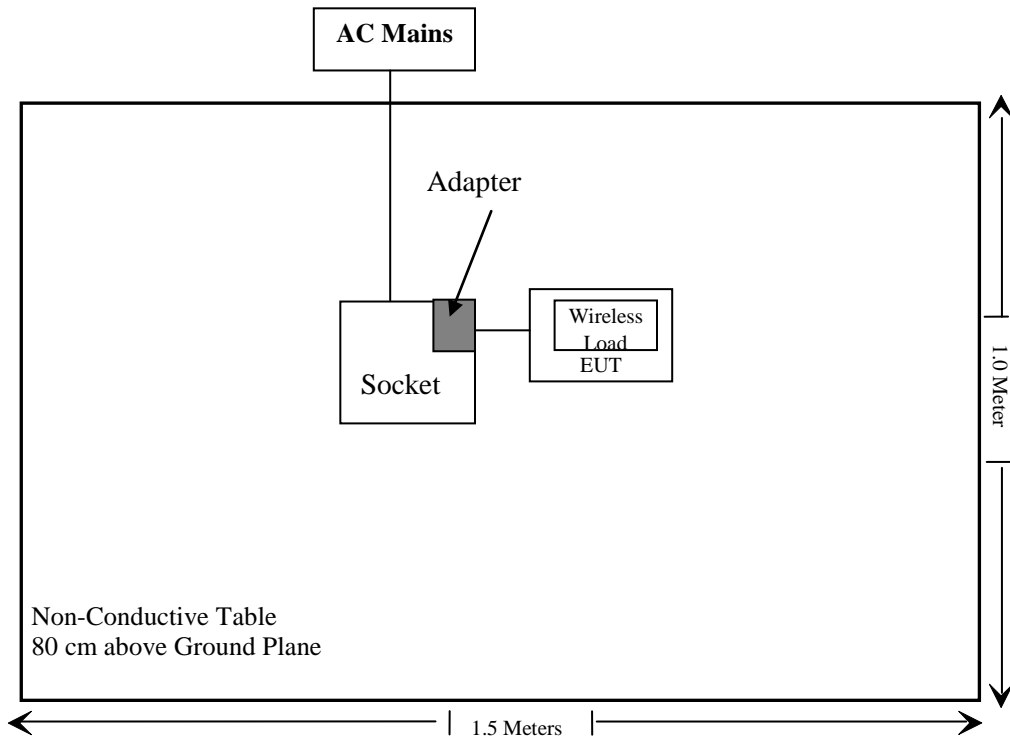


For radiated emission:

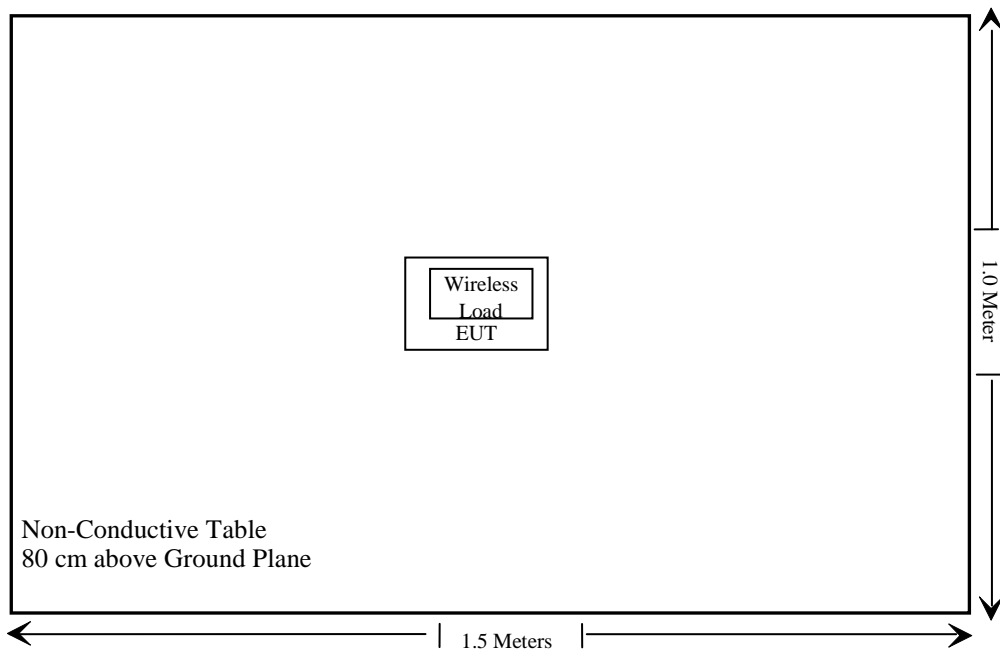
Test mode 1:



Test mode 2:



Test mode 3:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§1.1310 & §2.1091	Maximum Permissible Exposure(MPE)	Compliant
FCC§15.203	Antenna Requirement	Compliant
FCC§15.207	AC Line Conducted Emission	Compliant
§15.209 §15.205	Radiated Emission Test	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
MPE					
NARDA	Magnetic field tester	ELT-400	B-0138	2021/1/6	2024/1/5
NARDA	Magnetic field tester	2300/90.10	B-0137	2021/1/6	2024/1/5
ETS-Lindgreen	Isotropic Field Probe	HI-6005	69461	2018/9/28	2022/9/28
EMI					
Rohde & Schwarz	Test Receiver	ESPI3	100396	2020/12/24	2021/12/23
R & S	L.I.S.N.	ENV216	101314	2020/12/25	2021/12/24
Anritsu Corp	50Ω Coaxial Switch	MP59B	6200506474	2020/12/25	2021/12/24
Schwarzbeck	RF Coaxial Cable	N-2m	No.2	2020/01/04	2023/01/03
Conducted Emission Test Software: ES-K1 V1.71					
Rohde& Schwarz	Test Receiver	ESR	101817	2020/12/24	2021/12/23
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2020/01/05	2023/01/04
Schwarzbeck	LOOP Antenna	FMZB1516	1516131	2020/01/05	2023/01/04
SONOMA INSTRUMENT	Amplifier	310 N	186131	2020/12/25	2021/12/24
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-5m	No.3	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.5	2020/12/25	2021/12/24
Radiated Emission Test Software: EZ EMC V 1.1.4.2					

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

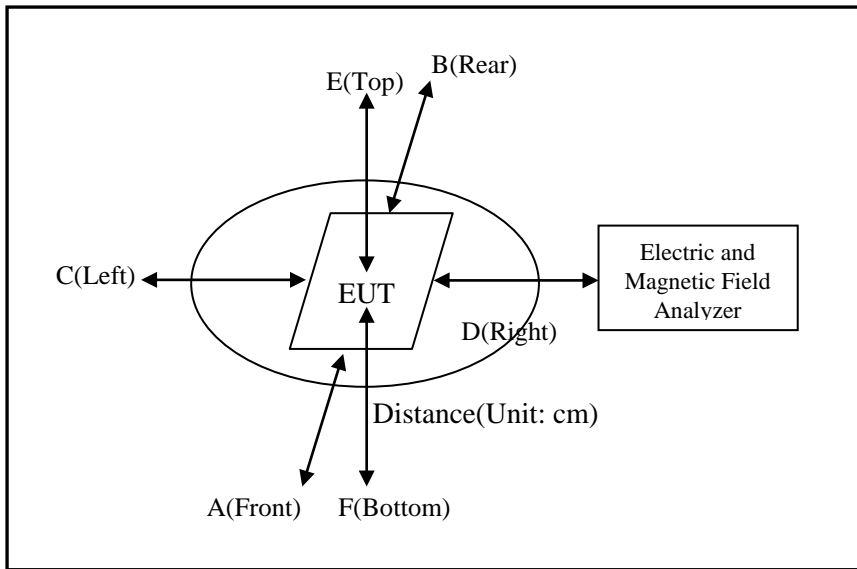
According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 clause 3 c)

- c) For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

According to KDB 680106 D01 RF Exposure Wireless Charging App v03r01 clause 5 b)

- (1) Power transfer frequency is less than 1 MHz
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Block Diagram of Test Setup



Note:

For mobile condition distance: A/B/C/D is 15cm; E is 20cm;

Test Data

Environmental Conditions

Temperature:	21°C
Relative Humidity:	45 %
ATM Pressure:	101.0 kPa

The testing was performed by Fan Yang on 2020-10-28

Test mode 1:**H-Field Strength**

Frequency Range (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	50% Limit (A/m)	Limit Test (A/m)
110-205	0.207	0.206	0.211	0.213	0.231	0.815	1.63

E-Field Strength

Frequency Range (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	50% Limit (V/m)	Limit Test (V/m)
110-205	1.110	1.313	1.107	1.249	2.039	307	614

Note:

For mobile condition distance: A/B/C/D is 15cm; E is 20cm;

Test mode 2:**H-Field Strength**

Frequency Range (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	50% Limit (A/m)	Limit Test (A/m)
110-205	0.213	0.211	0.218	0.224	0.269	0.815	1.63

E-Field Strength

Frequency Range (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	50% Limit (V/m)	Limit Test (V/m)
110-205	1.109	1.293	1.112	1.262	2.105	307	614

Note:

For mobile condition distance: A/B/C/D is 15cm; E is 20cm;

Test mode 3:**H-Field Strength**

Frequency Range (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	50% Limit (A/m)	Limit Test (A/m)
110-205	0.219	0.226	0.217	0.230	0.282	0.815	1.63

E-Field Strength

Frequency Range (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	50% Limit (V/m)	Limit Test (V/m)
110-205	1.126	1.391	1.131	1.308	2.160	307	614

Note:

For mobile condition distance: A/B/C/D is 15cm; E is 20cm;

Result: Compliant

Considerations of compliance 680106 D01 RF Exposure Wireless Charging App v03r01 clause 5 b:

(1) Power transfer frequency is less than 1 MHz.

Yes, the operation frequency is 110-205 kHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of primary coil is 15 Watts.

(3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

The transfer system includes only single primary coil.

(4) Client device is placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, mobile exposure conditions only.

(6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Yes, the test result for H and E-field strength less than 50% of the MPE limit.

FCC§15.203 – ANTENNA REQUIREMENT

Applicable Standard

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.

Antenna Connected Construction

The EUT has one internal coil arrangement, which were permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

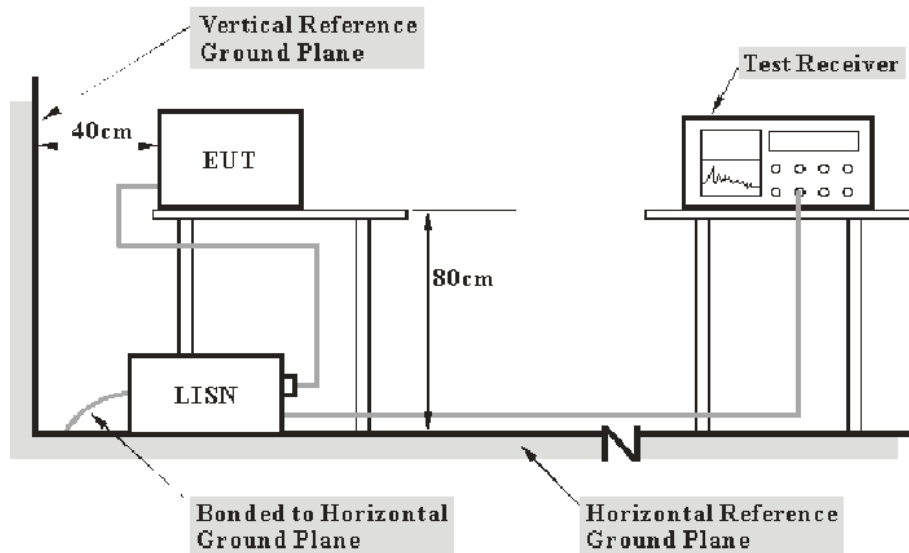
Result: Compliant.

FCC §15.207 – AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The basic equation is as follows:

Level (QuasiPeak or Average) = Reading Level + Transd Factor

Note:

Transd Factor = Cable loss + Factor of coupling device

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Level

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data

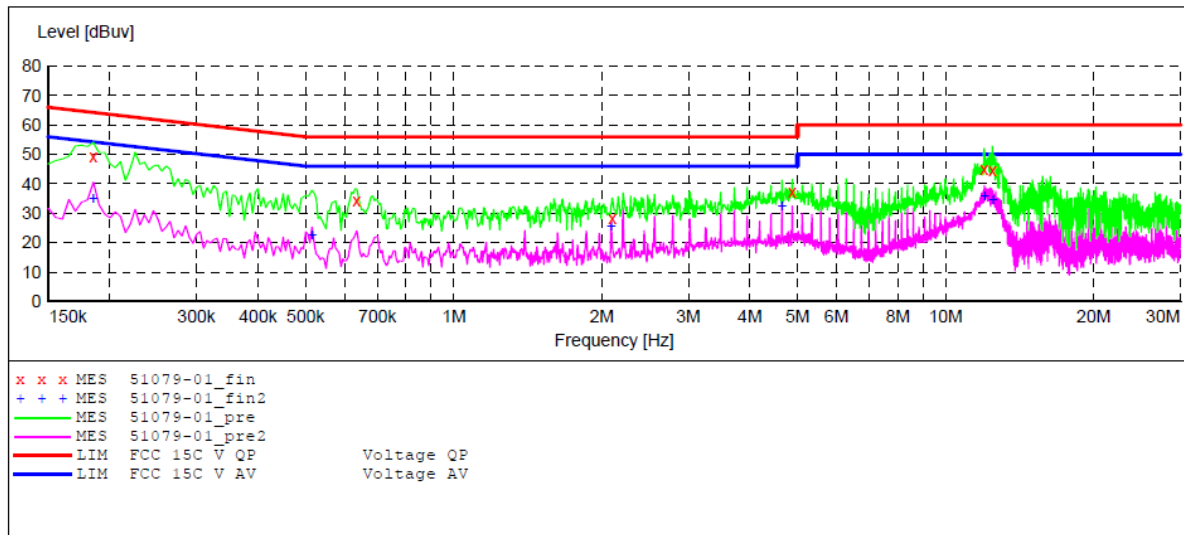
Environmental Conditions

Temperature:	21°C
Relative Humidity:	45 %
ATM Pressure:	101.0 kPa

The testing was performed by Fan Yang on 2021-10-22.

Test mode: Test mode 2

AC 120 V/60 Hz, Line:



MEASUREMENT RESULT: "51079-01_fin"

2021-10-22 11:58

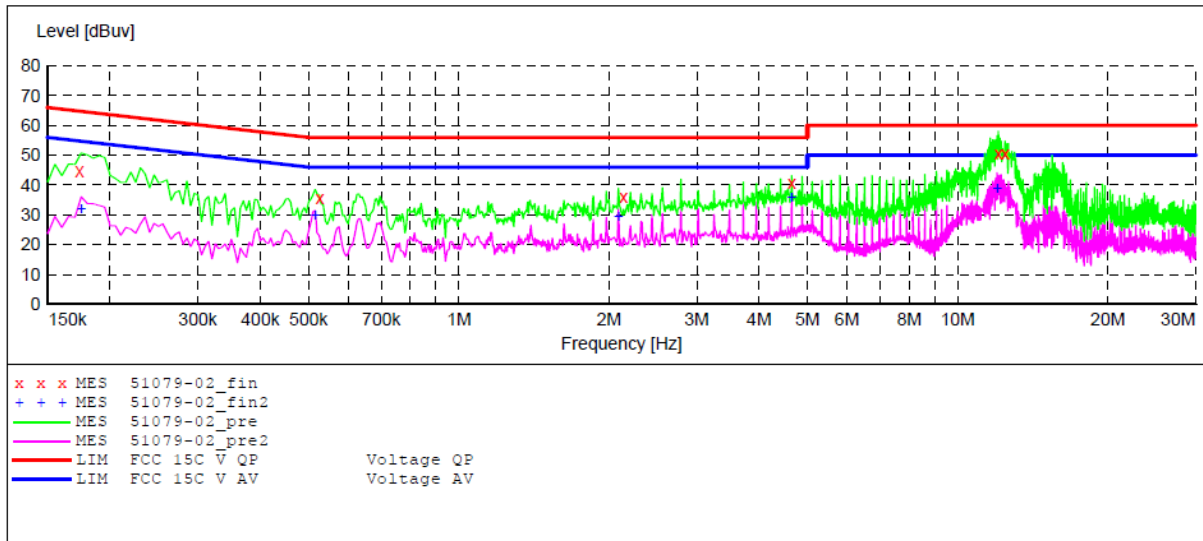
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.185000	49.00	10.8	64	15.0	QP	L1	GND
0.635000	34.30	11.0	56	21.7	QP	L1	GND
2.100000	28.50	11.3	56	27.5	QP	L1	GND
4.880000	37.30	11.4	56	18.7	QP	L1	GND
11.975000	45.00	11.6	60	15.0	QP	L1	GND
12.450000	44.60	11.6	60	15.4	QP	L1	GND

MEASUREMENT RESULT: "51079-01_fin2"

2021-10-22 11:58

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.185000	35.00	10.8	54	19.0	AV	L1	GND
0.515000	22.70	11.0	46	23.3	AV	L1	GND
2.090000	25.60	11.3	46	20.4	AV	L1	GND
4.650000	32.50	11.4	46	13.5	AV	L1	GND
12.000000	36.10	11.6	50	13.9	AV	L1	GND
12.475000	34.90	11.6	50	15.1	AV	L1	GND

AC 120V/ 60 Hz, Neutral:



MEASUREMENT RESULT: "51079-02_fin"

2021-10-22 12:00

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.175000	43.90	10.8	65	21.1	QP	N	GND
0.515000	35.50	11.0	56	20.5	QP	N	GND
2.090000	35.90	11.3	56	20.1	QP	N	GND
4.650000	40.60	11.4	56	15.4	QP	N	GND
12.075000	50.50	11.6	60	9.5	QP	N	GND
12.450000	50.40	11.6	60	9.6	QP	N	GND

MEASUREMENT RESULT: "51079-02_fin2"

2021-10-22 12:00

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.175000	32.70	10.8	55	22.3	AV	N	GND
0.515000	29.90	11.0	46	16.1	AV	N	GND
2.090000	29.60	11.3	46	16.4	AV	N	GND
4.650000	35.90	11.4	46	10.1	AV	N	GND
12.000000	39.10	11.6	50	10.9	AV	N	GND
12.650000	36.70	11.6	50	13.3	AV	N	GND

FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST

Applicable Standard

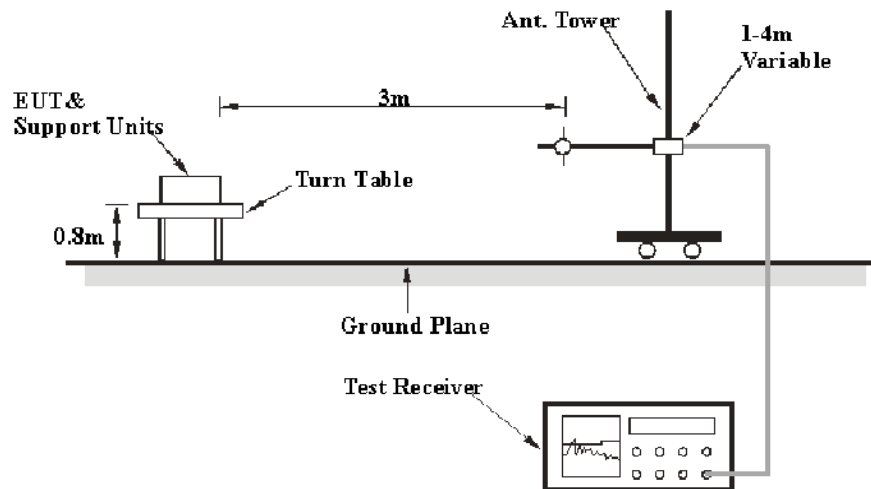
As per FCC Part 15.209

(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 (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	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., §§15.231 and 15.241.

EUT Setup



The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 1 GHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	Measurement
9 kHz – 150 kHz	200 Hz	1 kHz	QP/Average
150 kHz – 30 MHz	9 kHz	30 kHz	QP/Average
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP/Average measurement

Corrected Amplitude & Margin Calculation

For 9kHz-30MHz:

The basic equation is as follows:

$$\text{Level (QuasiPeak or Average)} = \text{Reading Level} + \text{Transd Factor}$$

Note:

$$\text{Transd Factor} = \text{Cable loss} + \text{Factor of coupling device}$$

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Level}$$

For above 30MHz:

The basic equation is as follows:

$$\text{Result} = \text{Meter Reading} + \text{Factor}$$

Note:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Result} - \text{Limit}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209&15.205.

Test Data

Environmental Conditions

Temperature:	21 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Fan Yang on 2021-10-22.

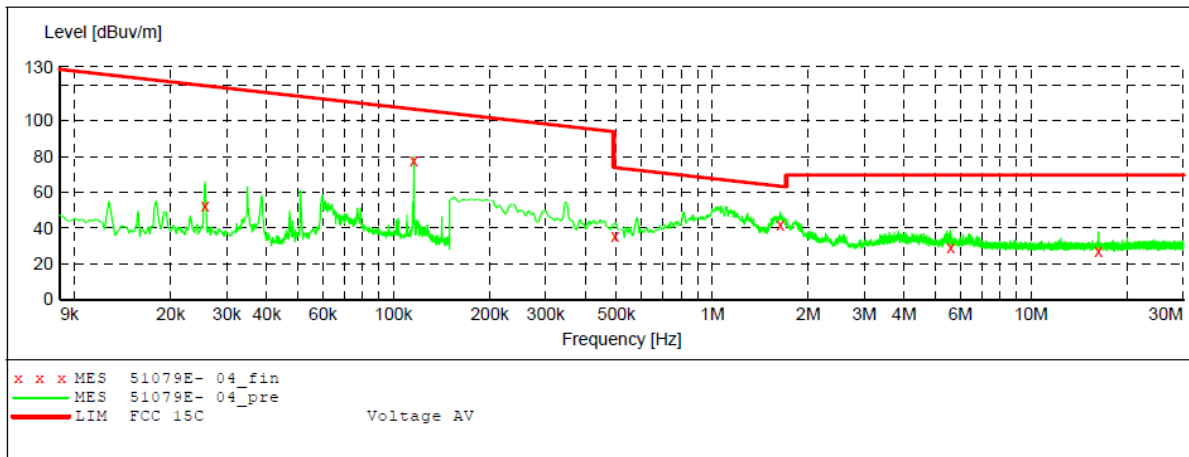
Test mode: Test mode 1 & Test mode 2 & Test mode 3

Result: Compliant

(Scan with Test mode 1 & Test mode 2 & Test mode 3 at X axis, Y axis, Z axis, the worst case is Test mode 1 & Test mode 2 & Test mode 3 at Z axis)

Test mode1:

9 kHz~30MHz:



MEASUREMENT RESULT: "51079E- 04_fin"

2021-10-22 10:45

Frequency MHz	Level dBuV	Transd dB/m	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
0.025600	52.50	20.1	119.4	66.9	QP	105.0	0.00	Z
0.115800	77.80	20.1	106.3	28.5	QP	105.0	0.00	Z
0.495000	35.50	20.3	73.7	38.2	QP	105.0	0.00	Z
1.635000	41.50	20.4	63.3	21.8	QP	105.0	0.00	Z
5.590000	29.10	20.5	69.5	40.4	QP	105.0	0.00	Z
16.245000	27.30	21.2	69.5	42.2	QP	105.0	0.00	Z

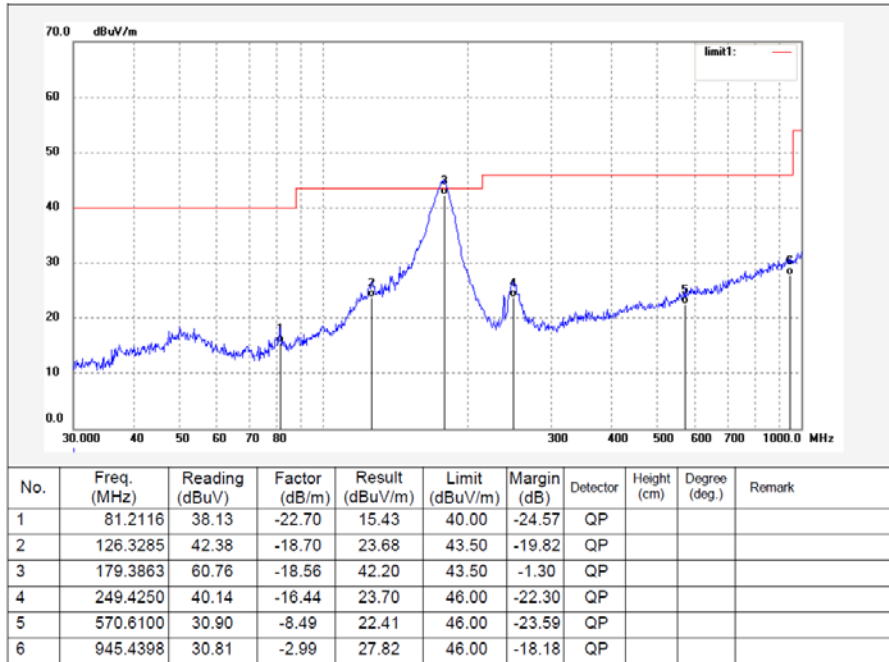
Part 15 Section 15.31(f)(2) (9kHz-30MHz)

Limit at 3m=Limit at 300m-40*log(3(m)/300(m))

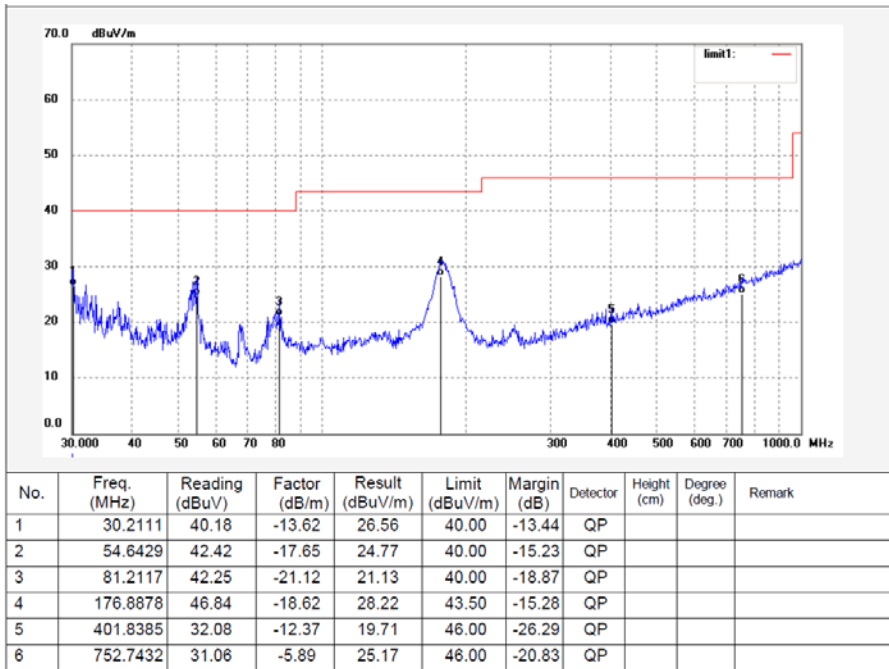
Limit at 3m=Limit at 30m-40*log(3(m)/30(m))

30 MHz ~ 1GHz

Horizontal

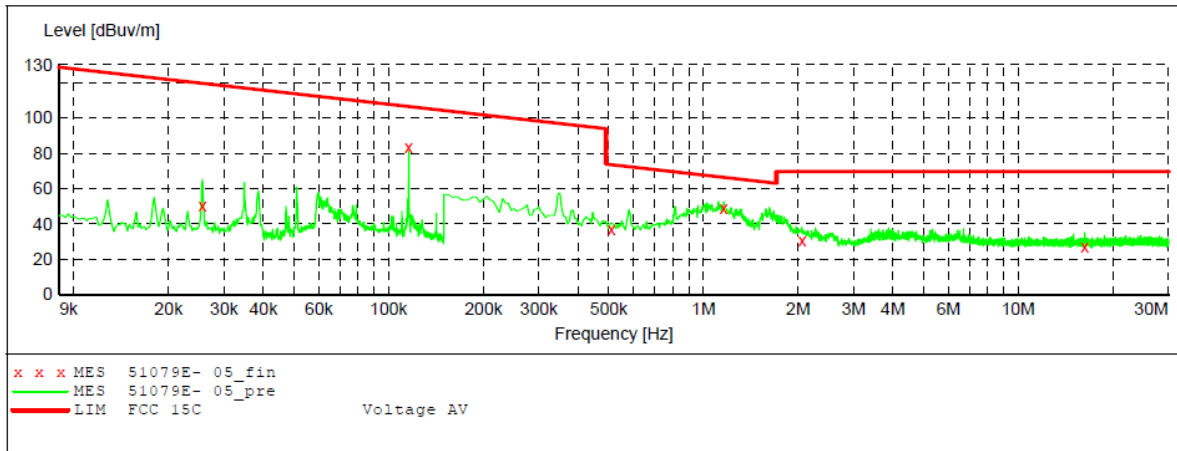


Vertical



Test mode2:

9 kHz~30MHz:



MEASUREMENT RESULT: "51079E-05_fin"

2021-10-22 10:50

Frequency MHz	Level dBu/m	Transd dB/m	Limit dBu/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
0.025600	50.20	20.1	119.4	69.2	QP	105.0	0.00	Z
0.115800	83.20	20.1	106.3	23.1	QP	105.0	0.00	Z
0.510000	37.00	20.3	73.5	36.5	QP	105.0	0.00	Z
1.160000	48.90	20.4	66.3	17.4	QP	105.0	0.00	Z
2.055000	30.70	20.4	69.5	38.8	QP	105.0	0.00	Z
16.250000	26.70	21.2	69.5	42.8	QP	105.0	0.00	Z

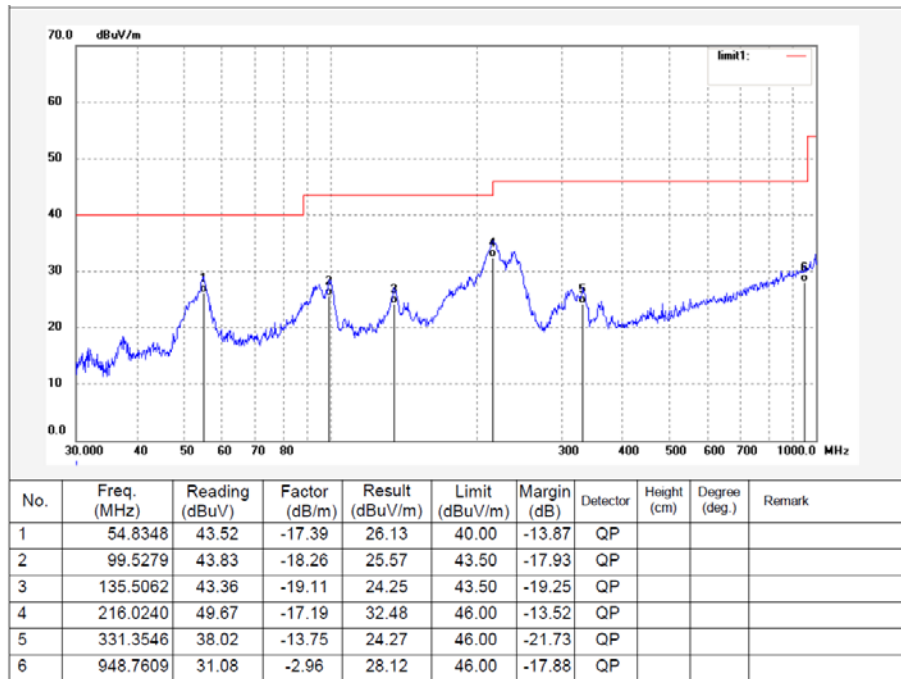
Part 15 Section 15.31(f)(2) (9kHz-30MHz)

Limit at 3m=Limit at 300m-40*log(3(m)/300(m))

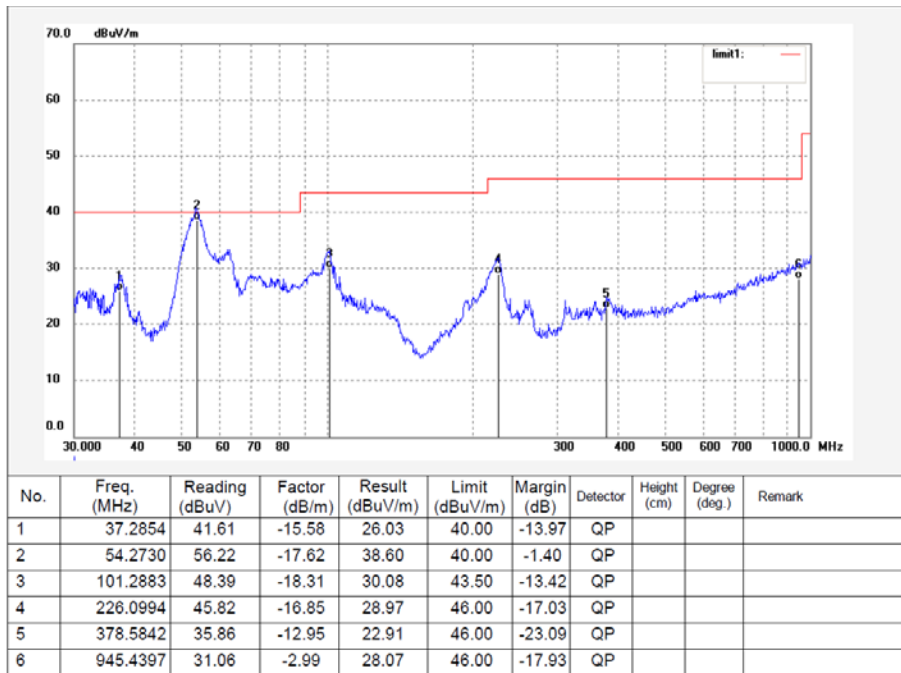
Limit at 3m=Limit at 30m-40*log(3(m)/30(m))

30 MHz ~ 1GHz

Horizontal

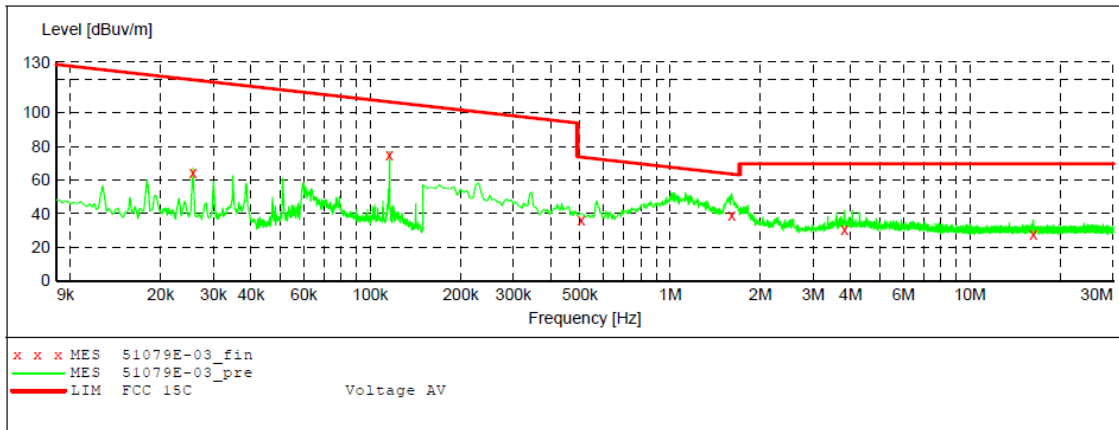


Vertical



Test mode3:

9 kHz~30MHz:



MEASUREMENT RESULT: "51079E-03_fin"

2021-10-22 10:38

Frequency MHz	Level dBuv	Transd dB/m	Limit dBuv/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
0.025600	64.20	20.1	119.4	55.2	QP	105.0	0.00	Z
0.115800	74.60	20.1	106.3	31.7	QP	105.0	0.00	Z
0.505000	35.90	20.3	73.5	37.6	QP	105.0	0.00	Z
1.605000	38.80	20.4	63.5	24.7	QP	105.0	0.00	Z
3.815000	30.70	20.5	69.5	38.8	QP	105.0	0.00	Z
16.240000	27.40	21.2	69.5	42.1	QP	105.0	0.00	Z

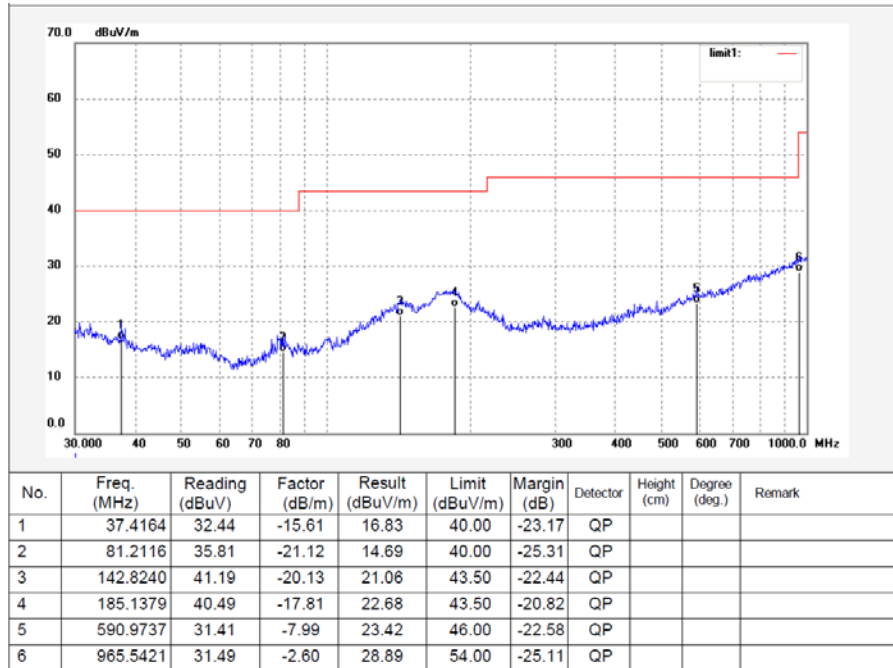
Part 15 Section 15.31(f)(2) (9kHz-30MHz)

Limit at 3m=Limit at 300m-40*log(3(m)/300(m))

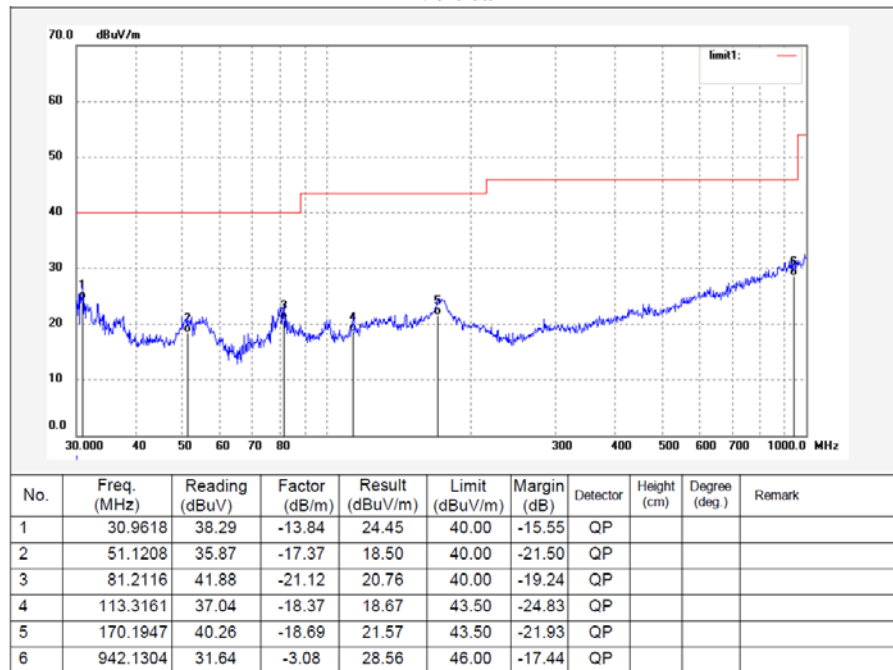
Limit at 3m=Limit at 30m-40*log(3(m)/30(m))

30 MHz ~ 1GHz

Horizontal



Vertical



***** END OF REPORT *****