



FCC Test Report

FCC ID: 2ARK4-L24W

Product: power bank wireless charging

Trade Name: MELIID

Model Number: L24W

Serial Model: L1W, LXW (X=2-99)

Report No.: S18091304415E

Prepared for

Shenzhen E'allto Technology Co., Ltd.

Block 5, Zhipeng Industrial Park, Fuyuan 1st Road, Fuyong, Shenzhen, China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen E'allto Technology Co., Ltd.
Address : Block 5, Zhipeng Industrial Park, Fuyuan 1st Road, Fuyong, Shenzhen, China

Manufacturer's Name : Shenzhen E'allto Technology Co., Ltd.
Address : Block 5, Zhipeng Industrial Park, Fuyuan 1st Road, Fuyong, Shenzhen, China

Product description

Product name : power bank wireless charging
Model and/or type reference : L24W, L1W, LXW (X=2-99)

Standards : FCC part 15C:2018
ANSI C63.10:2013

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test

Date (s) of performance of tests : 17 Sep. 2018 ~25 Oct. 2018
Date of Issue : 27 Oct. 2018
Test Result : **Pass**

Testing Engineer : LoRen · Luo

(Loren Luo)

Technical Manager : Jason Chen
(Jason Chen)

Authorized Signatory : Sam · Chen
(Sam Chen)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission					
Standard	Test Item	FCC Rules	Limit	Judgment	Remark
FCC part 15C:2018 ANSI C63.10:2013	Conducted Emission	§15.207	Class B	PASS	
	Radiated Emission	§15.209	Class B	PASS	
	ANTENNA APPLICATION	§15.203	/	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

1.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A-1.

FCC- Accredited : Test Firm Registration Number: 463705.
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

1.3 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

Revision History

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	power bank wireless charging
Trade Name	MELIID
FCC ID	2ARK4-L24W
Model No.	L24W
Serial Model	L1W, LXW (X=2-99)
Model Difference	All the model are the same circuit and RF module, except the appearance and colour.
Operating Frequency	110kHz~205kHz
Modulation Technique	Induction
Antenna Type	Induction coil
Power supply	<input checked="" type="checkbox"/> DC supply: Input: 5V/2.0A, Output2: 5V/1A; Output1:5V/2.1A
	<input type="checkbox"/> Adapter supply:
wireless Output	5W
HW Version	N/A
SW Version	N/A

2.1.1 DESCRIPTION OF TEST MODES

EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases	
Test Item	Data Rate/ Modulation
AC Conducted Emission	Mode 1: Max load*
Radiated Test Cases	Mode 1: Max load

(*)EUT can only access the specified load, can not adjust the size of the load

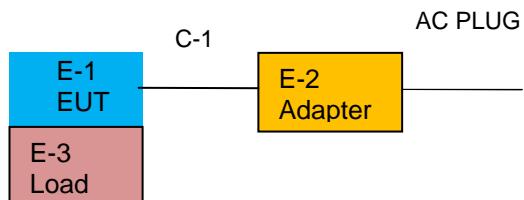
Carrier Frequency and Channel list:

Channel	Frequency(MHz)
1	0.110
2	0.157
3	0.205

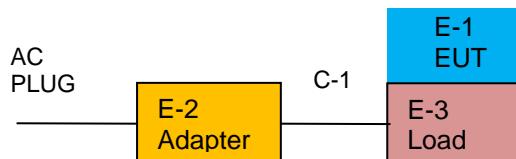
The EUT supports one voltage input and output. The EUT performs one voltage mode pretests.

2.2 DESCRIPTION OF TEST SETUP

For AC Conducted Emission Mode



For Radiated Test Cases



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	power bank wireless charging	MELIID	L24W	N/A	EUT
E-2	Adapter	N/A	N/A	N/A	Peripherals
E-3	Load	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	Power Cable	NO	NO	1.2m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2018.05.19	2019.05.18	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.10.08	2019.10.07	1 year
4	Test Receiver	R&S	ESPI	101318	2018.05.19	2019.05.18	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2018.04.08	2019.04.07	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2019.05.18	1 year
7	Amplifier	EMC	EMC051835 SE	980246	2017.12.06	2018.12.06	1 year
8	Amplifier	MITEQ	TTA1840-35-HG	177156	2018.08.05	2019.08.04	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2018.05.19	2019.05.18	1 year
10	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
11	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2018.05.19	2019.05.18	1 year
2	LISN	R&S	ENV216	101313	2018.04.18	2019.04.17	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2018.05.19	2019.05.18	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2018.05.19	2019.05.18	1 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	limit	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

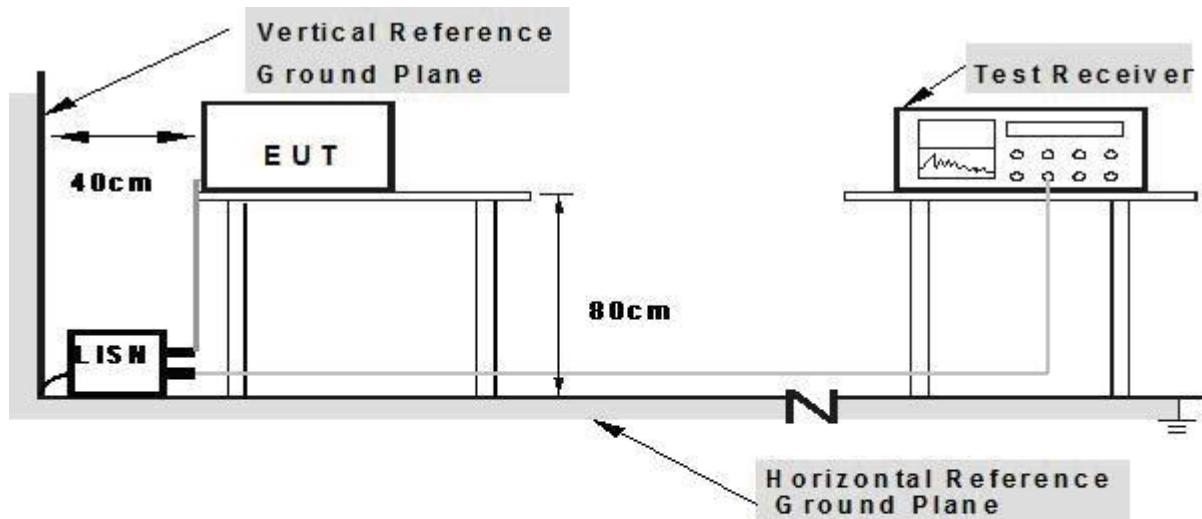
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMH) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

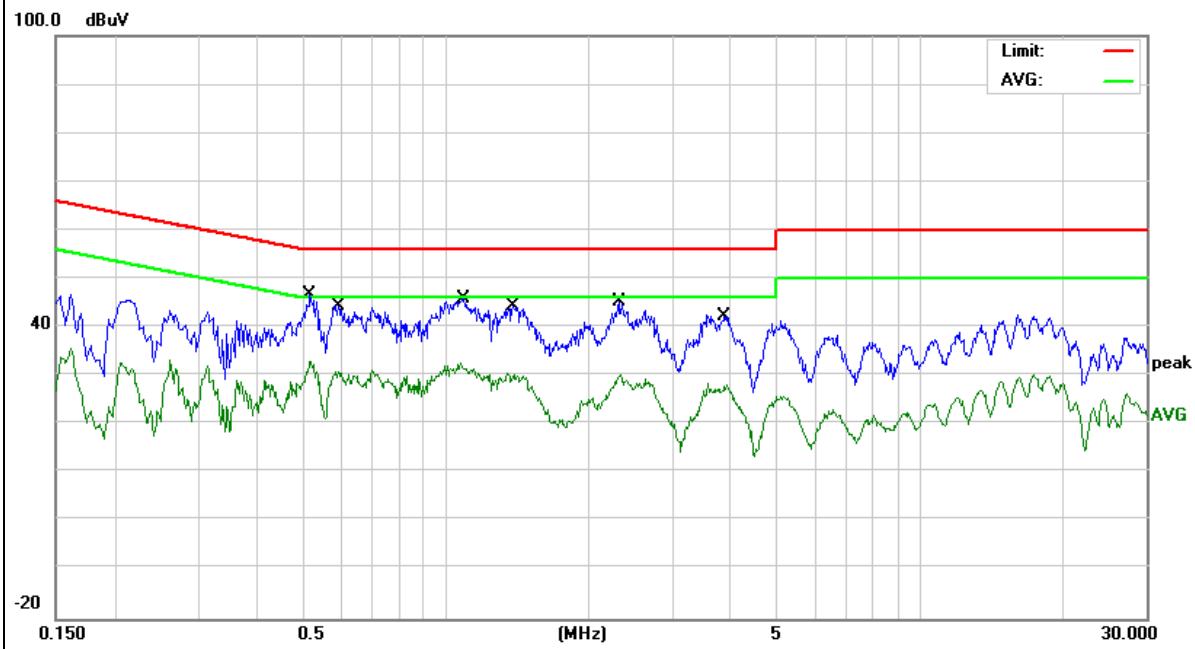
3.1.5 TEST RESULTS

EUT:	power bank wireless charging	Model Name. :	L24W
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2018-10-13
Test Mode:	Mode 1(wireless charging)	Phase :	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dB μ V)	(dB)	(dB μ V)	(dB μ V)	(dB)	
0.5180	37.09	9.75	46.84	56.00	-9.16	QP
0.5180	23.12	9.75	32.87	46.00	-13.13	AVG
0.5858	21.19	9.75	30.94	46.00	-15.06	AVG
0.5938	34.58	9.75	44.33	56.00	-11.67	QP
1.0859	22.05	9.75	31.80	46.00	-14.20	AVG
1.0900	36.23	9.75	45.98	56.00	-10.02	QP
1.3817	34.55	9.76	44.31	56.00	-11.69	QP
1.4018	20.38	9.76	30.14	46.00	-15.86	AVG
2.3140	35.36	9.81	45.17	56.00	-10.83	QP
2.3420	20.35	9.81	30.16	46.00	-15.84	AVG
3.8620	32.35	9.91	42.26	56.00	-13.74	QP
3.9140	18.29	9.92	28.21	46.00	-17.79	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

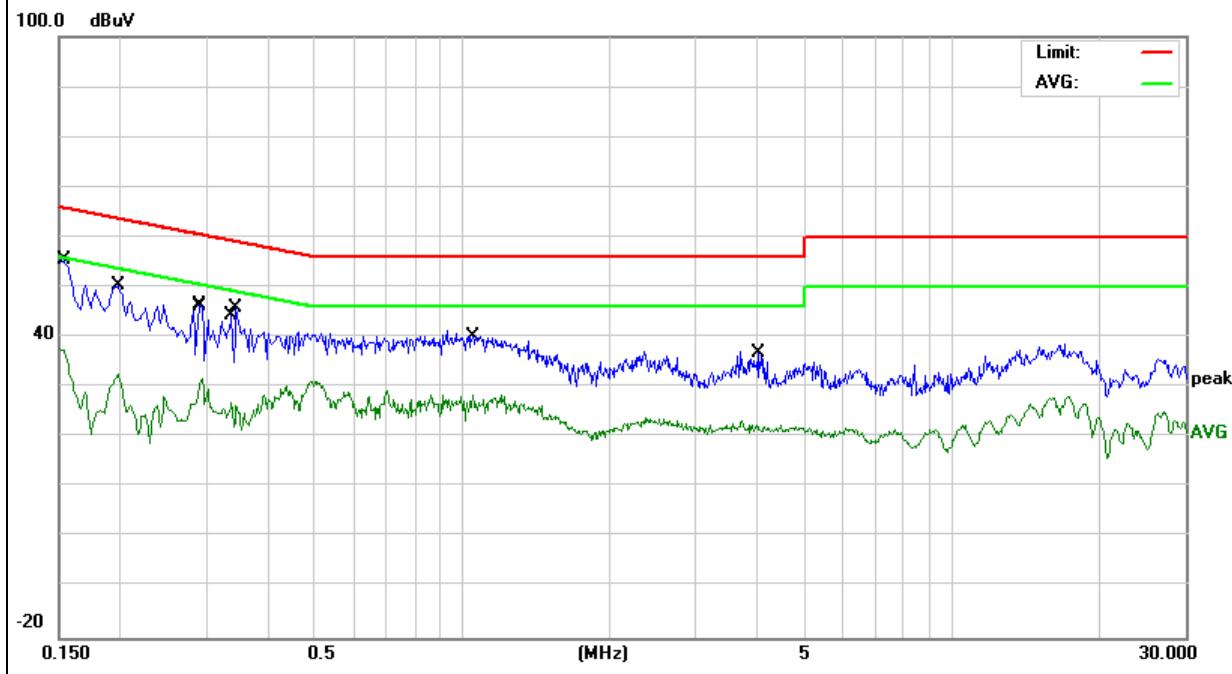


EUT:	power bank wireless charging	Model Name.:	L24W
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2018-10-13
Test Mode:	Mode 1(wireless charging)	Phase :	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dB μ V)	(dB)	(dB μ V)	(dB μ V)	(dB)	
0.1524	27.76	9.74	37.50	55.86	-18.36	AVG
0.1539	45.65	9.74	55.39	65.78	-10.39	QP
0.1980	40.51	9.73	50.24	63.69	-13.45	QP
0.1980	23.03	9.73	32.76	53.69	-20.93	AVG
0.2899	36.63	9.74	46.37	60.52	-14.15	QP
0.2939	21.88	9.74	31.62	50.41	-18.79	AVG
0.3379	17.31	9.74	27.05	49.25	-22.20	AVG
0.3459	36.03	9.74	45.77	59.06	-13.29	QP
1.0500	30.54	9.75	40.29	56.00	-15.71	QP
1.0500	18.72	9.75	28.47	46.00	-17.53	AVG
3.9940	12.54	9.92	22.46	46.00	-23.54	AVG
4.0819	25.94	9.92	35.86	56.00	-20.14	QP

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

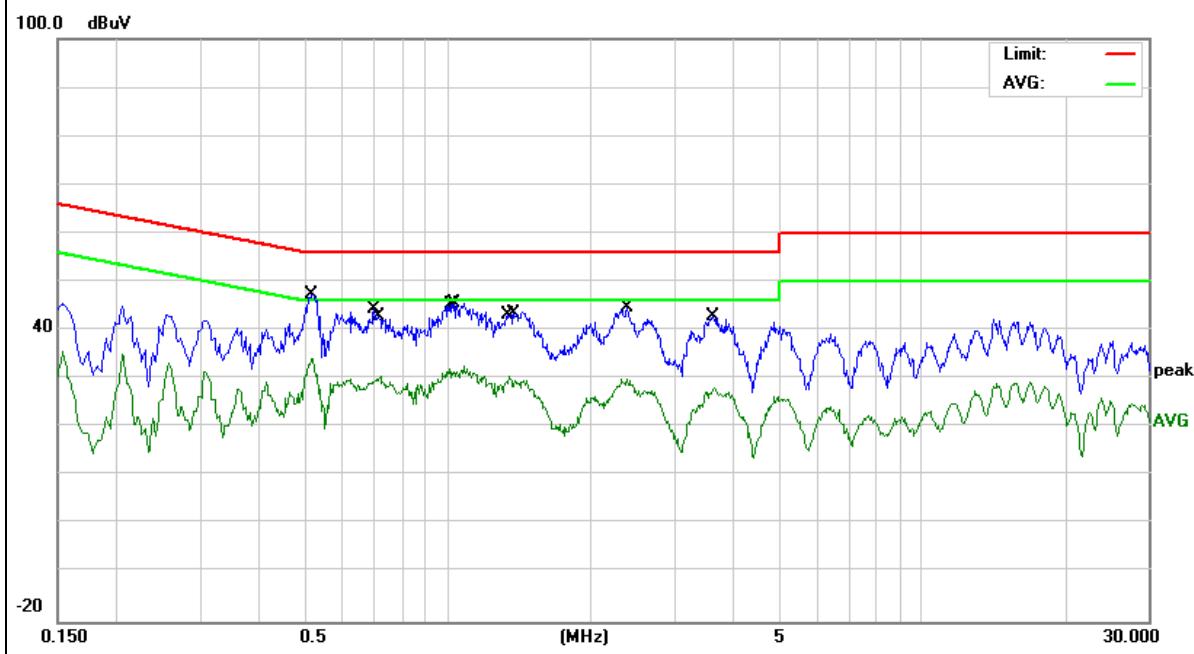


EUT:	power bank wireless charging	Model Name. :	L24W
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2018-10-13
Test Mode:	Mode 1(wireless charging)	Phase :	L
Test Voltage:	DC 5V from Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dB μ V)	(dB)	(dB μ V)	(dB μ V)	(dB)	
0.5180	37.71	9.74	47.45	56.00	-8.55	QP
0.5180	24.25	9.74	33.99	46.00	-12.01	AVG
0.6979	34.62	9.74	44.36	56.00	-11.64	QP
0.7099	20.11	9.74	29.85	46.00	-16.15	AVG
1.0100	22.22	9.74	31.96	46.00	-14.04	AVG
1.0300	35.67	9.74	45.41	56.00	-10.59	QP
1.3500	20.86	9.75	30.61	46.00	-15.39	AVG
1.3779	33.62	9.75	43.37	56.00	-12.63	QP
2.3940	34.73	9.79	44.52	56.00	-11.48	QP
2.3940	20.09	9.79	29.88	46.00	-16.12	AVG
3.6139	32.87	9.84	42.71	56.00	-13.29	QP
3.6419	18.05	9.84	27.89	46.00	-18.11	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

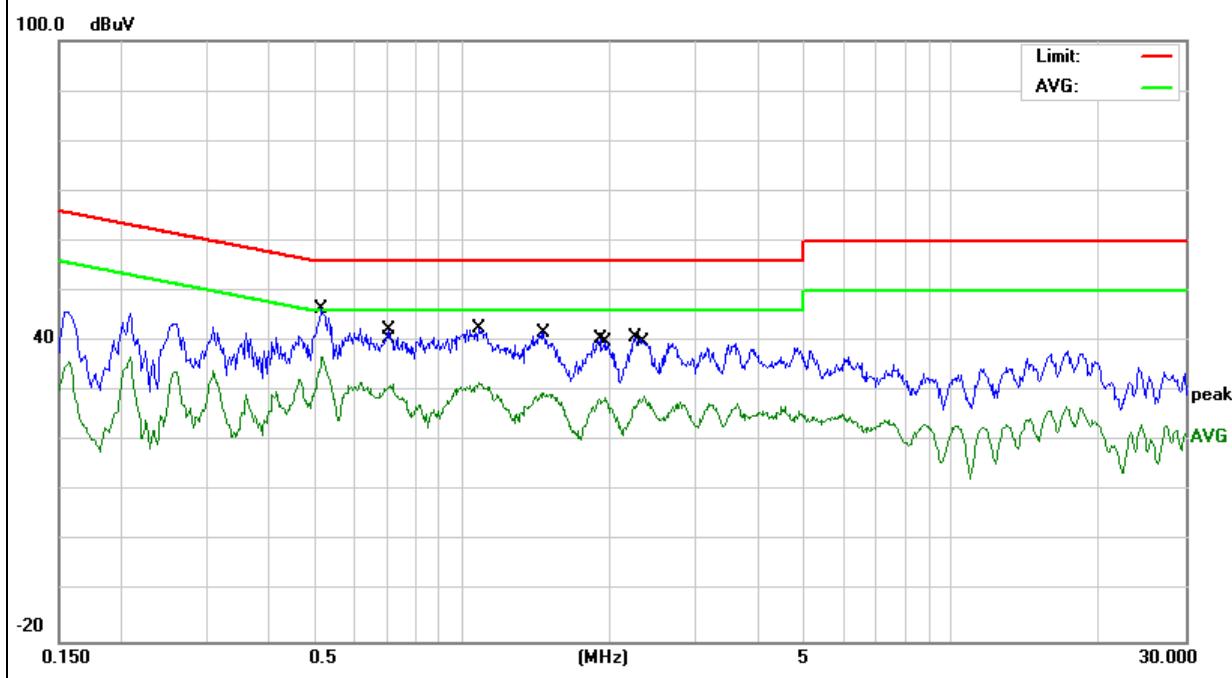


EUT:	power bank wireless charging	Model Name.:	L24W
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2018-10-13
Test Mode:	Mode 1(wireless charging)	Phase :	N
Test Voltage:	DC 5V from Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dB μ V)	(dB)	(dB μ V)	(dB μ V)	(dB)	
0.5180	36.56	9.75	46.31	56.00	-9.69	QP
0.5180	27.20	9.75	36.95	46.00	-9.05	AVG
0.7099	32.65	9.75	42.40	56.00	-13.60	QP
0.7219	21.69	9.75	31.44	46.00	-14.56	AVG
1.0780	32.67	9.75	42.42	56.00	-13.58	QP
1.0780	21.92	9.75	31.67	46.00	-14.33	AVG
1.4699	31.96	9.77	41.73	56.00	-14.27	QP
1.4699	19.91	9.77	29.68	46.00	-16.32	AVG
1.9139	30.51	9.79	40.30	56.00	-15.70	QP
1.9659	18.84	9.79	28.63	46.00	-17.37	AVG
2.2580	30.97	9.81	40.78	56.00	-15.22	QP
2.3580	19.11	9.81	28.92	46.00	-17.08	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

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

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Notes:

- (1) Measurement was performed at an antenna to the closed point of EUT distance of meters.
- (2) Emission level (dB_{uV}/m)=20log Emission level (uV/m).
- (3) Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209 limit.
- (4) 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 and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna(Blow 30M, use loop antenna), and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Use the following receiver/spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW=200Hz for 9KHz to 150KHz,

RBW=9kHz for 150KHz to 30MHz,

RBW=120KHz for 30MHz to 1GHz

VBW $\geq 3 \times$ RBW

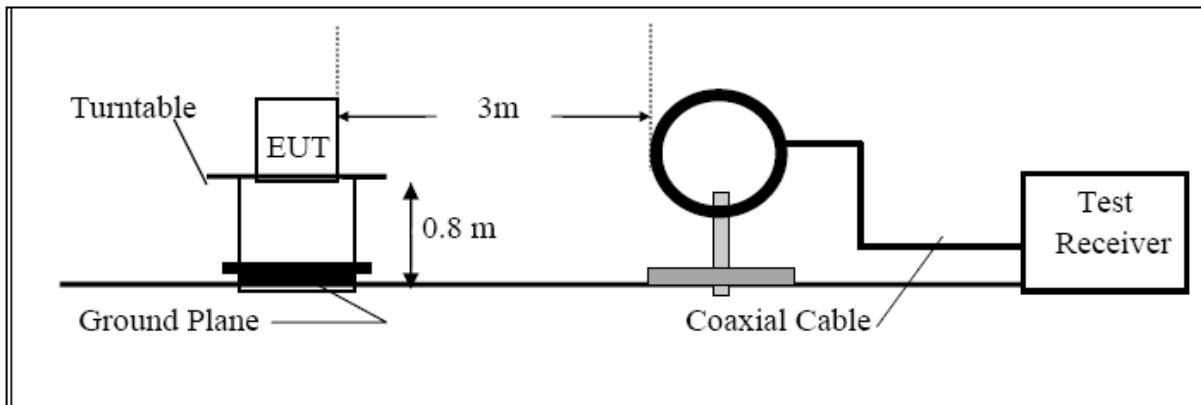
Sweep = auto

Detector function = QP

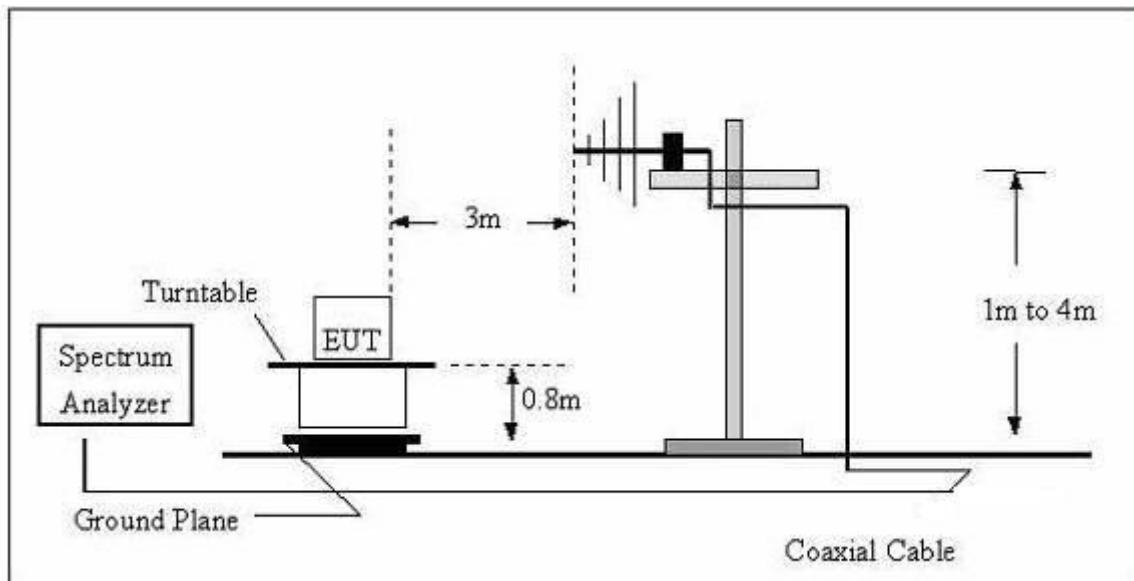
Trace = max hold

3.2.3 TEST SETUP

For Radiated Emission Test Set-Up, Frequency Below 30MHz



For Radiated Emission 30~1000MHz



3.2.4 TEST RESULTS

TEST RESULTS (9KHz~30MHz)

EUT:	power bank wireless charging	Model Name. :	L24W
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2018-10-13
Test Mode :	Low frequency/Max Load	Polarization :	X
Test Power :	DC 5V from Adapter AC 120V/60Hz		

Frequency (MHz)	Ant.Pol.	Emissio n Level (dBuV/ m)	Limits	Margin	Remark
0.056	X	42.35	112.6	-70.3	Avg
0.110	X	63.58	106.8	-43.2	Avg(fundamenta l frequency)
0.626	X	41.49	71.67	-30.18	QP
2.729	X	35.62	69.54	-33.92	QP
5.284	X	40.23	69.54	-29.31	QP
20.672	X	35.55	69.54	-33.99	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

EUT:	power bank wireless charging	Model Name. :	L24W
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2018-10-13
Test Mode :	Mid frequency/Max Load	Polarization :	X
Test Power :	DC 5V from Adapter AC 120V/60Hz		

Frequency (MHz)	Ant.Pol.	Emission Level	Limits	Margin	Remark
		(dBuV/m)	(dBuV/m)	(dB)	
0.029	X	40.15	118.36	-78.21	Avg
0.157	X	74.59	103.69	-29.10	Avg(fundamental frequency)
0.575	X	38.24	72.41	-34.17	QP
0.834	X	31.16	69.18	-38.02	QP
1.469	X	30.26	64.26	-34.00	QP
6.771	X	45.21	69.54	-24.33	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

EUT:	power bank wireless charging	Model Name. :	L24W
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2018-10-13
Test Mode :	High frequency/Max Load	Polarization :	X
Test Power :	DC 5V from Adapter AC 120V/60Hz		

Frequenc y (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
0.035	X	36.26	116.72	-80.46	Avg
0.205	X	80.19	101.37	-21.18	Avg(fundamental frequency)
0.863	X	40.58	68.88	-28.30	QP
1.379	X	35.67	64.81	-29.14	QP
5.663	X	32.64	69.54	-36.90	QP
8.237	X	30.24	69.54	-39.30	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

TEST RESULTS (30MHz ~1000MHz)

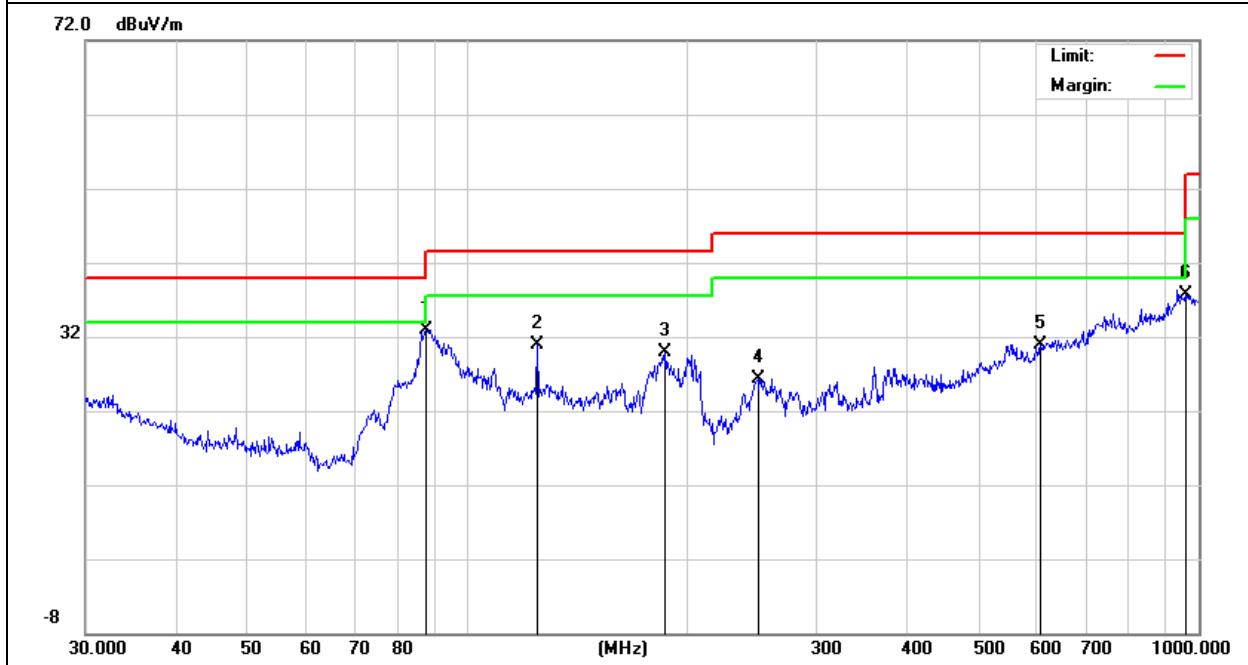
Note: The High/ Middle/ Low frequency mode has been tested. But the High frequency mode is the worst mode, just reported the worst data.

EUT:	power bank wireless charging	Model Name. :	L24W
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2018-10-13
Test Mode :	High frequency/Max Load	Polarization :	Horizontal
Test Power :	DC 5V from Adapter AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	87.7248	22.92	9.96	32.88	40.00	-7.12	QP
H	124.5690	17.63	13.31	30.94	43.50	-12.56	QP
H	186.4409	19.38	10.61	29.99	43.50	-13.51	QP
H	249.4250	11.51	14.83	26.34	46.00	-19.66	QP
H	607.7867	6.60	24.36	30.96	46.00	-15.04	QP
H	958.7943	6.62	31.14	37.76	46.00	-8.24	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

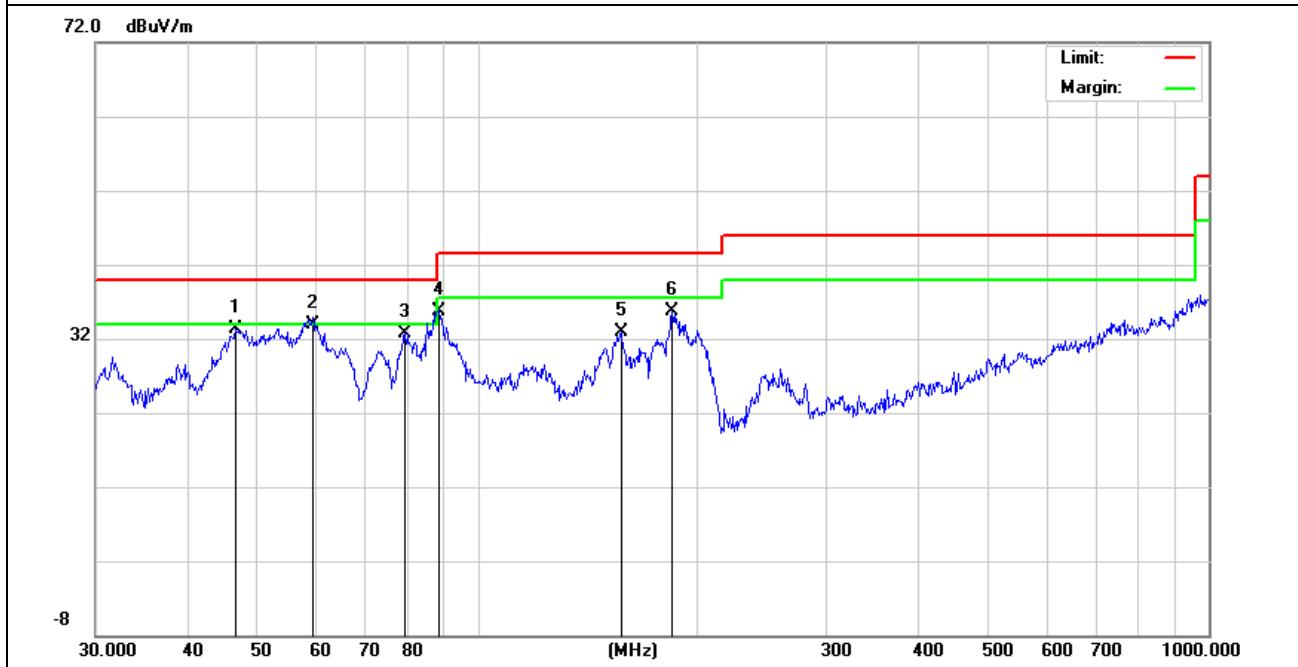


EUT:	power bank wireless charging	Model Name.:	L24W
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2018-10-13
Test Mode :	High frequency/Max Load	Polarization :	Vertical
Test Power :	DC 5V from Adapter AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	46.6664	22.02	11.26	33.28	40.00	-6.72	QP
V	59.4405	27.32	6.55	33.87	40.00	-6.13	QP
V	79.5207	24.15	8.62	32.77	40.00	-7.23	QP
V	88.6524	25.72	10.08	35.80	43.50	-7.70	QP
V	157.0073	20.70	12.14	32.84	43.50	-10.66	QP
V	184.4898	24.87	10.78	35.65	43.50	-7.85	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



4. ANTENNA APPLICATION

4.1 Antenna Requirement

15.203 requirement: For intentional device, according to 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.

4.2 Result

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

END REPORT