

FCC Test Report

FCC ID:2AU7DFL048812

Product: 3-IN-1 FOLDABLE POWER STATION

Trade Name: FUËL

Model Number: FL048812

Family Model: FL048814

Report No.: S22062204201001

Prepared for

PYS High-Tech Co., LTD

1F to 12F, Block 9, Lianhua Industrial Zone, Longhua Shenzhen, Guangdong CHINA

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name..... : PYS High-Tech Co., LTD
Address..... : 1F to 12F, Block 9, Lianhua Industrial Zone, Longhua
Shenzhen, Guangdong CHINA
Manufacturer's Name..... : PYS High-Tech Co., LTD
Address..... : 1F to 12F, Block 9, Lianhua Industrial Zone, Longhua
Shenzhen, Guangdong CHINA
Factory's Name-1..... : PYS High-Tech Co., LTD
Address..... : 1F to 12F, Block 9, Lianhua Industrial Zone, Longhua
Shenzhen, Guangdong CHINA
Factory's Name-2..... : PYS VIETNAM TECHNOLOGY COMPANY LIMITED
Address..... : CN-06, Thuan Thanh II industrial zone, Mao Dien commune, Thuan Thanh
district, Bac Ninh, Vietnam
Model and/or type reference . : FL048812
Family Model: FL048814
FCC part 15C
Standards..... : ANSI C63.10:2013
KDB 680106 D01 RF Exposure Wireless Charging App v03r01

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 Jun. 2022 ~ 04 Jul. 2022
Date of Issue..... : 05 Jul. 2022
Test Result..... : **Pass**

Testing Engineer :



(Susan Li)

Authorized Signatory :



(Alex Li)

Table of Contents	Page
1. TEST SUMMARY	4
1.1 FACILITIES AND ACCREDITATIONS	5
1.2 LABORATORY ACCREDITATIONS AND LISTINGS	5
1.3 MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST MODES	8
2.3 DESCRIPTION OF TEST SETUP	9
2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	10
2.5 MEASUREMENT INSTRUMENTS LIST	11
3. EMC EMISSION TEST	12
3.1 CONDUCTED EMISSION MEASUREMENT	12
3.1.1 POWER LINE CONDUCTED EMISSION	12
3.1.2 TEST PROCEDURE	13
3.1.3 TEST SETUP	13
3.1.4 EUT OPERATING CONDITIONS	13
3.1.5 TEST RESULTS	14
3.2 RADIATED EMISSION MEASUREMENT	16
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	16
3.2.2 TEST PROCEDURE	17
3.2.3 TEST SETUP	18
3.2.4 TEST RESULTS	19
4. BANDWIDTH TEST	22
4.1TEST PROCEDURE	22
4.2TEST SETUP	22
4.3 TEST RESULT	23
5. ANTENNA APPLICATION	26
5.1 Antenna Requirement	26
5.2 Result	26

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	
	20dB BANDWIDTH	§15.215	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 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 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 %**.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
5	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
6	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
7	Temperature	$\pm 0.5^{\circ}\text{C}$
8	Humidity	$\pm 2\%$
9	All emissions, radiated(9KHz~30MHz)	$\pm 6\text{dB}$
10	Occupied bandwidth	$\pm 2\%$

Revision History

[illegible]

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	3-IN-1 FOLDABLE POWER STATION
Trade Name	FUËL
FCC ID	2AU7DFL048812
Model No.	FL048812
Family Model	FL048814
Model Difference	All models are identical circuits and RF modules, except for the naming.
Operating Frequency	Wireless Charging Stand coil 1 :115-205KHz; Wireless Charging Pad coil 2 :115-205KHz; Watch charger coil 3 :110.5-330KHz
Modulation Technique	ASK
Antenna Type	Induction coil
Power Rating	Input: DC 15V== 3A Output: Wireless Output1(Wireless Charging Stand):15W(Max) Wireless Output2(Wireless Charging Pad): 10W(Max) Wireless Output3(Watch Charger): 5W
Battery	N/A
HW Version	N/A
SW Version	N/A

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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.

Pretest Mode	Description
Mode 1	Charging+Coil 1 TX Mode
Mode 2	Charging+Coil 2 TX Mode
Mode 3	Charging+Coil 3 TX Mode
Mode 4	Charging+Coil 1+2 TX Mode
Mode 5	Charging+Coil 1+3 TX Mode
Mode 6	Charging+Coil 2+3 TX Mode
Mode 7	Charging+Coil 1+2+3 TX Mode

For Conducted Test	
Final Test Mode	Description
Mode 7	Charging+Coil 1+2+3 TX Mode

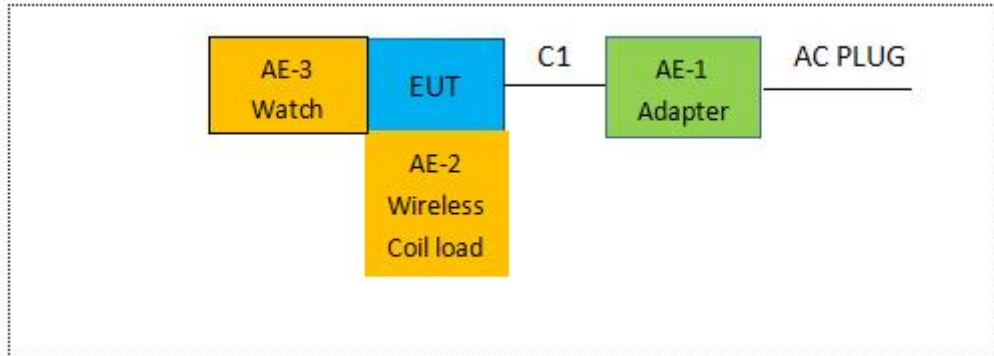
For Radiated Test	
Final Test Mode	Description
Mode 7	Charging+Coil 1+2+3 TX Mode

Note: 1.All mode has been tested,mode 7 was the worst case and only this mode was presented in this report.

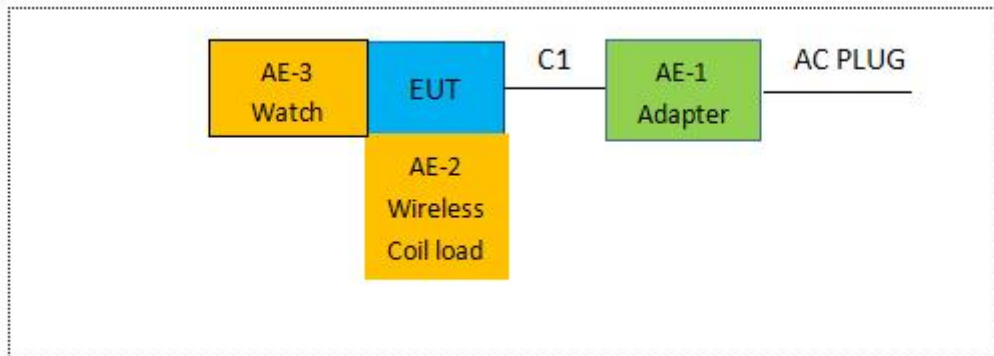
2. Coil 1 support output 15W full load,half load and no load mode all has been tested,15W full load was the worst case and only this mode was presented in this report. Coil 2 support output 10W full load,half load and no load mode all has been tested,10W full load was the worst case and only this mode was presented in this report.

2.3 DESCRIPTION OF TEST SETUP

For AC Conducted Emission Mode



For Radiated Test Cases



2.4 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
AE-1	Adapter	N/A	N/A	N/A	Peripherals
AE-2	Wireless Coil load	N/A	N/A	N/A	Peripherals
AE-3	Watch	APPLE	Apple Watch 3	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB cable	YES	NO	0.8m	

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”.

2.5 MEASUREMENT INSTRUMENTS LIST

RadiationTest equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2022.04.01	2023.03.31	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.04.01	2023.03.31	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.01	2023.03.31	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
8	Amplifier	MITEQ	TTA1840-35-HG	177156	2022.06.17	2023.06.16	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2021.11.07	2022.11.06	1 year
10	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
11	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	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	2022.04.06	2023.04.05	1 year
2	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2022.04.06	2023.04.05	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2023.05.10	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.

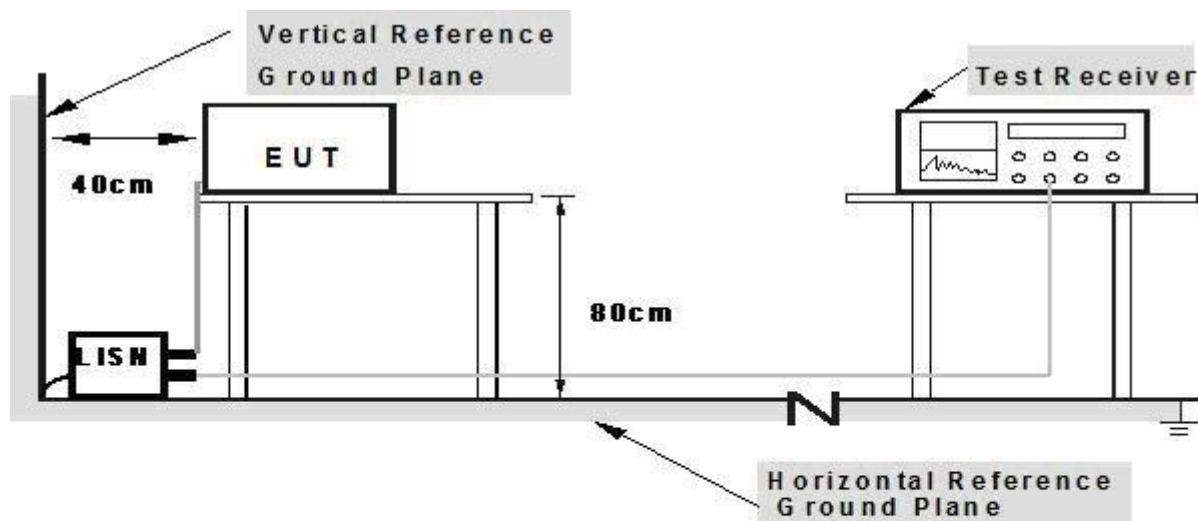
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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 (AMN) are 80 cm from EUT and at least 80 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.

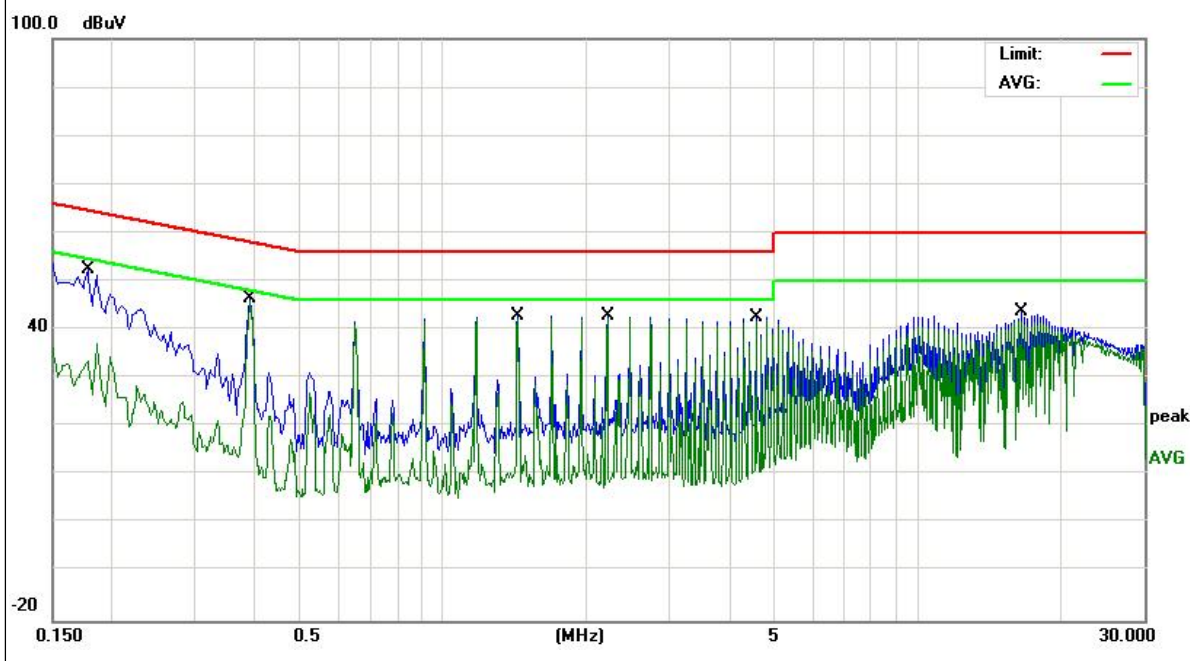
3.1.5 TEST RESULTS

EUT:	3-IN-1 FOLDABLE POWER STATION	Model Name. :	FL048812
Temperature:	21.1℃	Relative Humidity:	48%
Pressure:	1010hPa	Phase :	L
Test Mode:	Mode 7	Test Voltage:	DC 15V from adapter

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1780	42.78	9.61	52.39	64.57	-12.18	QP
0.1780	23.91	9.61	33.52	54.57	-21.05	QP
0.3899	36.88	9.65	46.53	58.06	-11.53	QP
0.3899	36.19	9.65	45.84	48.06	-2.22	QP
1.4340	33.15	9.67	42.82	56.00	-13.18	QP
1.4340	32.52	9.67	42.19	46.00	-3.81	QP
2.2139	33.10	9.69	42.79	56.00	-13.21	AVG
2.2139	32.48	9.69	42.17	46.00	-3.83	AVG
4.5579	32.65	9.76	42.41	56.00	-13.59	AVG
4.5579	32.01	9.76	41.77	46.00	-4.23	AVG
16.5660	33.70	10.11	43.81	60.00	-16.19	AVG
16.5660	31.62	10.11	41.73	50.00	-8.27	AVG

Remark:

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

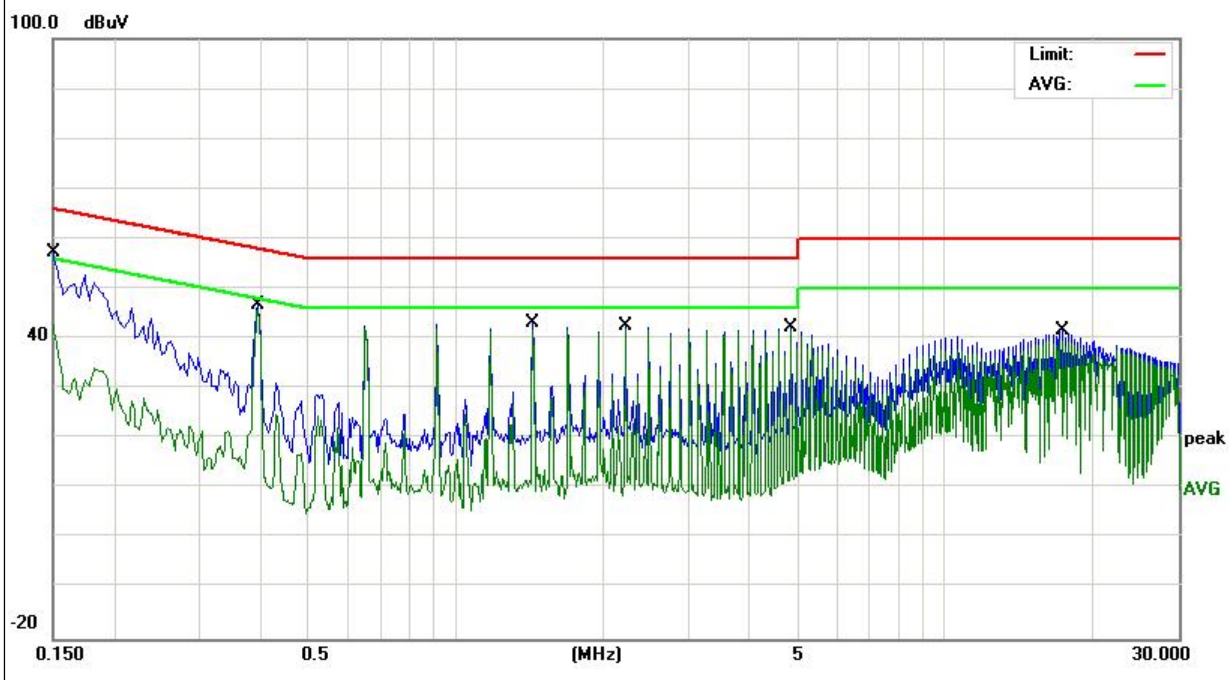


EUT:	3-IN-1 FOLDABLE POWER STATION	Model Name. :	FL048812
Temperature:	21.1℃	Relative Humidity:	48%
Pressure:	1010hPa	Phase :	N
Test Mode:	Mode 7	Test Voltage:	DC 15V from adapter

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1499	47.63	9.65	57.28	66.00	-8.72	QP
0.1499	33.15	9.65	42.80	56.00	-13.20	QP
0.3940	36.96	9.66	46.62	57.98	-11.36	QP
0.3940	36.25	9.66	45.91	47.98	-2.07	QP
1.4380	33.50	9.67	43.17	56.00	-12.83	QP
1.4380	32.09	9.67	41.76	46.00	-4.24	QP
2.2220	32.78	9.67	42.45	56.00	-13.55	AVG
2.2220	32.14	9.67	41.81	46.00	-4.19	AVG
4.8340	32.45	9.74	42.19	56.00	-13.81	AVG
4.8340	32.05	9.74	41.79	46.00	-4.21	AVG
17.3700	31.51	10.09	41.60	60.00	-18.40	AVG
17.3700	29.39	10.09	39.48	50.00	-10.52	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
¹ 0.495-0.505	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 (dBuV/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 15.209limit.
- (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.

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*RBW

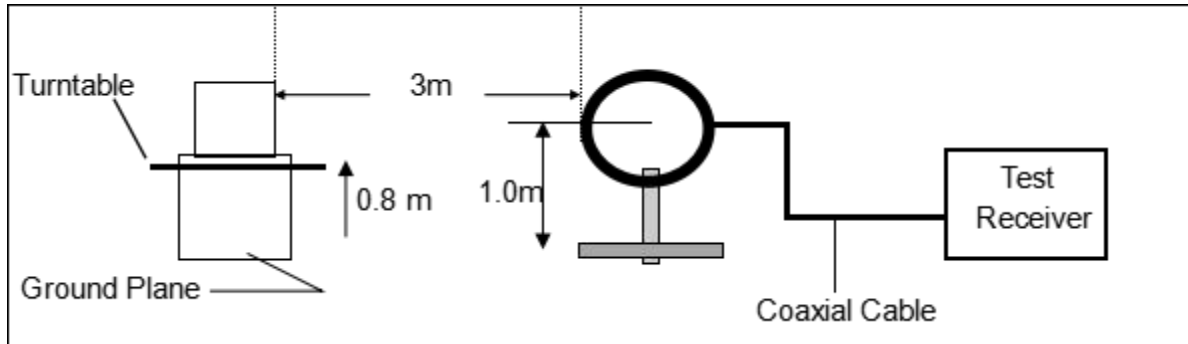
Sweep = auto

Detector function = QP

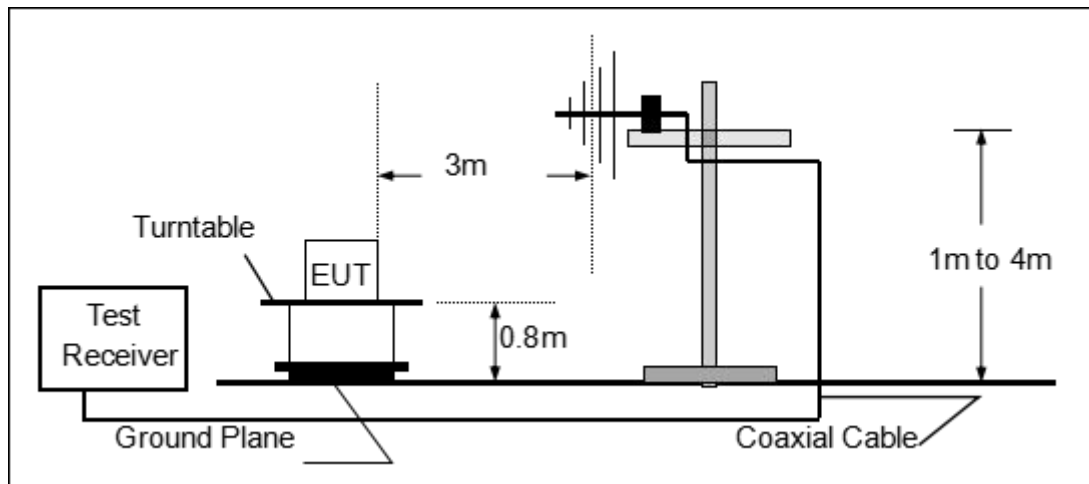
Trace = max hold

3.2.3 TEST SETUP

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



(b) For Radiated Emission 30~1000MHz



3.2.4 TEST RESULTS

TEST RESULTS(9KHz~30MHz)

Note:

EUT:	3-IN-1 FOLDABLE POWER STATION	Model Name. :	FL048812
Temperature:	24℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Power :	DC 15V from adapter
Test Mode :	Mode 7	Polarization:	X

Frequency (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
0.144	X	44.10	104.4	-60.3	Avg(coil1)
0.147	X	41.80	104.3	-62.5	Avg(coil2)
0.327	X	47.50	97.3	-49.81	Avg(coil3)
1.289	X	33.90	65.40	-31.50	QP
3.356	X	38.00	69.54	-31.54	QP
30.000	X	34.70	69.54	-34.84	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.

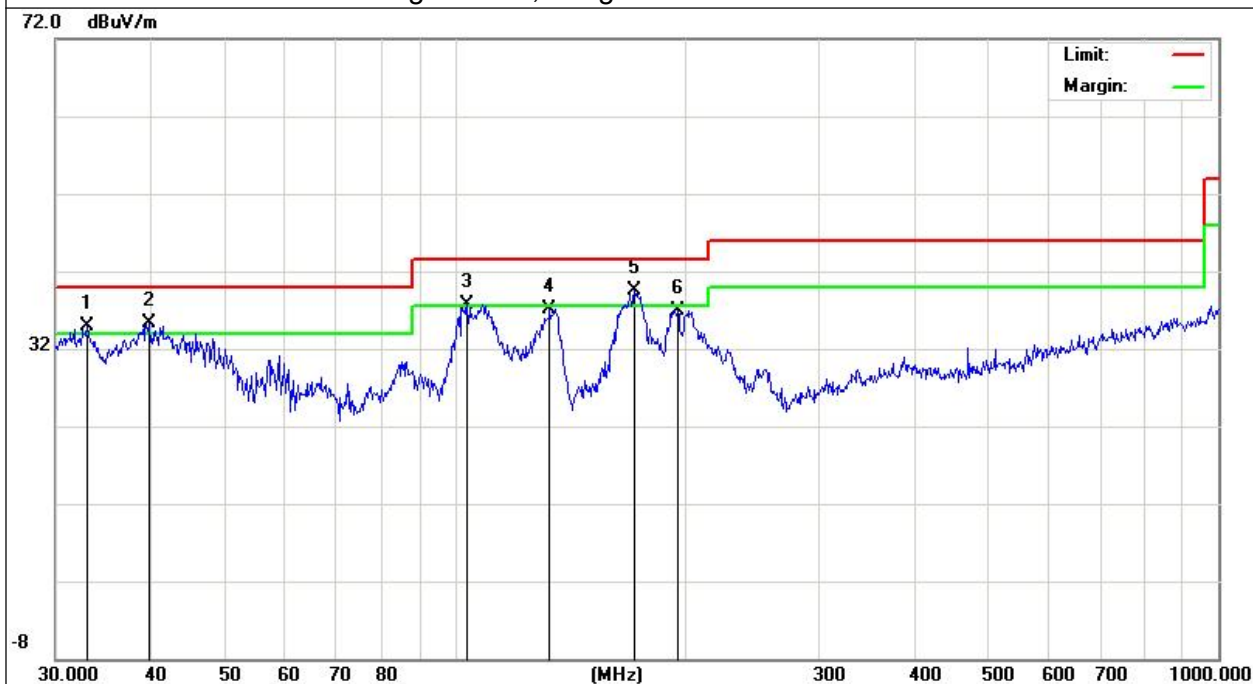
Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

EUT:	3-IN-1 FOLDABLE POWER STATION	Model Name. :	FL048812
Temperature:	25.6℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Power :	DC 15V from adapter
Test Mode :	Mode 7	Polarization:	Vertical

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	32.9791	10.17	24.74	34.91	40.00	-5.09	QP
V	39.7146	14.24	20.97	35.21	40.00	-4.79	QP
V	103.8055	19.79	17.97	37.76	43.50	-5.74	QP
V	133.1511	18.81	18.37	37.18	43.50	-6.32	QP
V	171.9946	22.49	17.02	39.51	43.50	-3.99	QP
V	195.8220	20.60	16.35	36.95	43.50	-6.55	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.

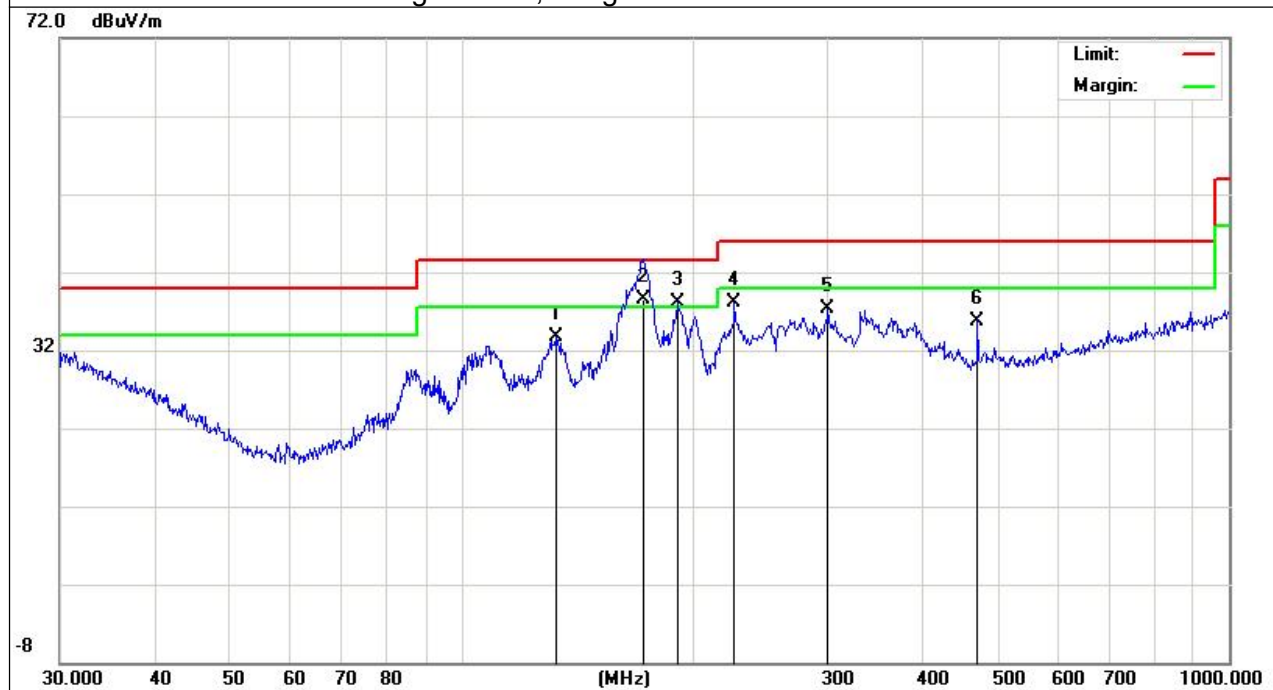


EUT:	3-IN-1 FOLDABLE POWER STATION	Model Name. :	FL048812
Temperature:	25.6℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Power :	DC 15V from adapter
Test Mode :	Mode 7	Polarization:	Horizontal

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	132.6850	15.28	18.37	33.65	43.50	-9.85	QP
H	172.5988	21.64	16.96	38.60	43.50	-4.9	QP
H	191.0738	22.06	15.95	38.01	43.50	-5.49	QP
H	226.8936	21.00	17.02	38.02	46.00	-7.98	QP
H	300.3672	17.40	19.88	37.28	46.00	-8.72	QP
H	470.5232	12.33	23.47	35.80	46.00	-10.20	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.



4. BANDWIDTH TEST

4.1 TEST PROCEDURE

- 1). The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
- 2). 20dB Bandwidth the resolution bandwidth of 300 Hz and the video bandwidth of 1 kHz were used.
- 3). Measured the spectrum width with power higher than 20dB below carrier.

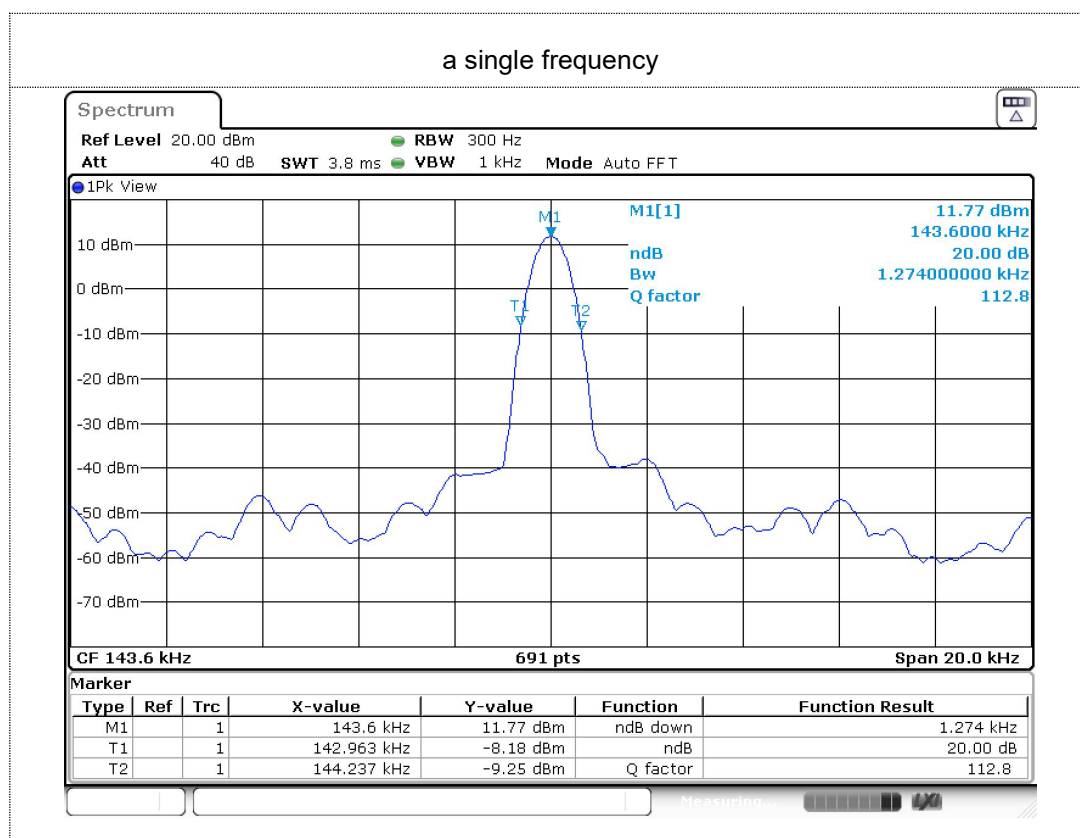
4.2 TEST SETUP



4.3 TEST RESULT

EUT:	3-IN-1 FOLDABLE POWER STATION	Model Name. :	FL048812
Temperature:	24℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Mode :	Mode 1
Test Power :	DC 15V from adapter		

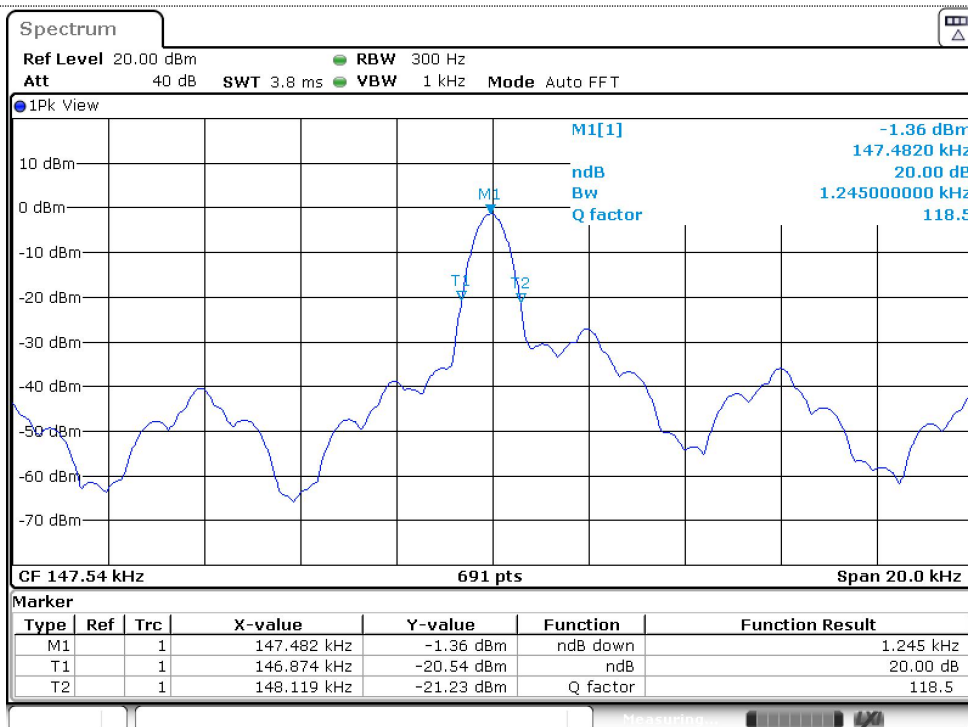
-20dB Bandwidth-a single frequency(Hz)	F _L (kHz)	F _H (kHz)
1274	142.963	144.237



EUT:	3-IN-1 FOLDABLE POWER STATION	Model Name. :	FL048812
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Mode :	Mode 2
Test Power :	DC 15V from adapter		

-20dB Bandwidth-a single frequency(Hz)	F _L (kHz)	F _H (kHz)
1245	146.874	148.119

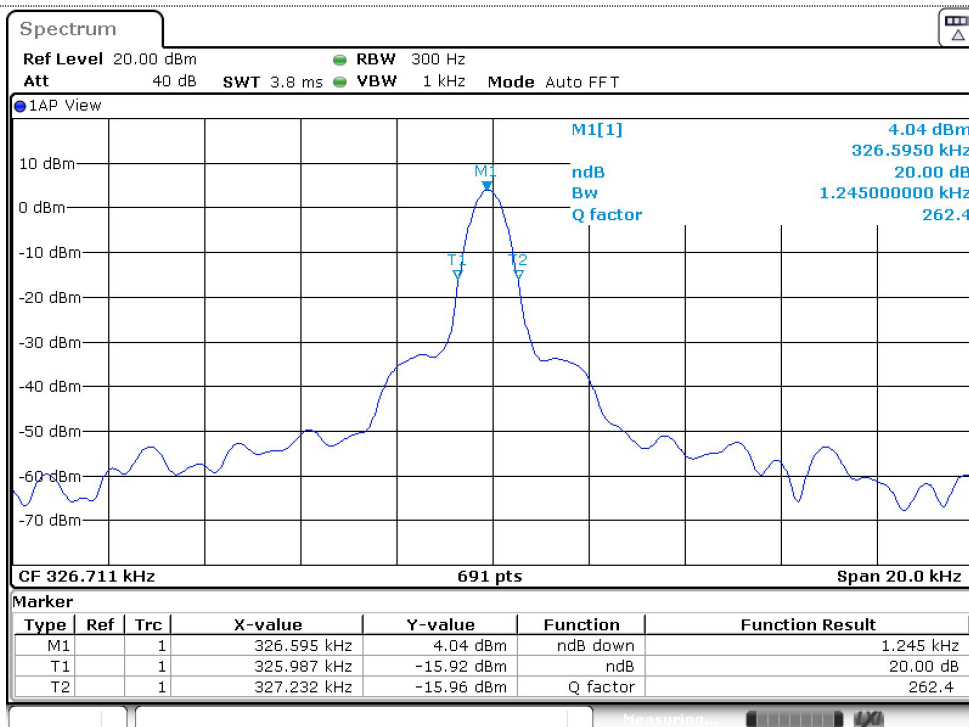
a single frequency



EUT:	3-IN-1 FOLDABLE POWER STATION	Model Name. :	FL048812
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Mode :	Mode 3
Test Power :	DC 15V from adapter		

-20dB Bandwidth-a single frequency(Hz)	F _L (kHz)	F _H (kHz)
1245	325.987	327.232

a single frequency



5. ANTENNA APPLICATION

5.1 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.

5.2 Result

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

END REPORT