



# **FCC Test Report**

## **FCC ID: 2AJWS-DASH75WC**

**Product:** Power Bank

**Trade Name:** HONEYCOMB

**Model Number:** DASH75WC

**Serial Model:** N/A

**Report No.:** NTEK- 2016NT0924003F

**Prepared for**

Dongguan Large Electronics Co., Ltd.  
Floor 5,Block A,Gosun Science Park, Longxi Road  
5,Zhouxi,Nancheng District,Dongguan City, Guangdong,China.

**Prepared by**

NTEK Testing Technology Co., Ltd.  
1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street,  
Bao'an District, Shenzhen 518126 P.R. China  
Tel.: +86-755-6115 6588 Fax.: +86-755-6115 6599  
Website:<http://www.ntek.org.cn>

## TEST RESULT CERTIFICATION

**Applicant's name** ..... : Dongguan Large Electronics Co., Ltd.  
**Address** ..... : Floor 5,Block A,Gosun Science Park, Longxi Road 5,Zhouxi,Nancheng District,Dongguan City, Guangdong , China.  
**Manufacturer's Name** ..... : Dongguan Large Electronics Co., Ltd.  
**Address** ..... : Floor 5,Block A,Gosun Science Park, Longxi Road 5,Zhouxi,Nancheng District,Dongguan City, Guangdong , China.

### Product description

**Product name** ..... : Power Bank  
**Model and/or type reference** : DASH75WC

**Standards** ..... : FCC part 15C:2016  
 ANSI C63.10:2013

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document.

**Date of Test** ..... :  
**Date (s) of performance of tests** ..... : 24 Sep.2016 ~ 12 Oct.2016  
**Date of Issue** ..... : 12 Oct.2016  
**Test Result** ..... : **Pass**

**Testing Engineer** : Eileen Liu.  
 (Eileen Liu)

**Technical Manager** : Jason chen  
 (Jason Chen)

**Authorized Signatory** : Sam. Chen  
 (Sam Chen)

Table of Contents	Page
1 . TEST SUMMARY	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST SETUP	9
2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	10
2.4 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	28
4.1 TEST PROCEDURE	28
4.2 DEVIATION FROM STANDARD	28
4.3 TEST SETUP	28
4.4 TEST RESULTS	29
5. Antenna application	32
5.1 Antenna Requirement	32
5.2 Result	32

## 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission					
Standard	Test Item	FCC Rules	Limit	Judgment	Remark
FCC part 15C:2016 FCC part 2:2016 ANSI C63.10:2013	Conducted Emission	§15.207	Class B	PASS	
	Radiated Emission	§15.209	Class B	PASS	
	ANTENNA APPLICATION	§15.203	/	PASS	
	Occupied Bandwidth	§2.1049	/	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 TEST FACILITY

NTEK Testing Technology Co., Ltd

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

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

## 1.2 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

[illegible]

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	Power Bank
Trade Name	HONEYCOMB
FCC ID	2AJWS-DASH75WC
Model No.	DASH75WC
Serial Model	N/A
Model Difference	N/A
Sample type	Production unit
Operating Frequency	110KHz~205KHz
Modulation Technique	Induction
Antenna Type	Induction coil
Power supply	<input checked="" type="checkbox"/> DC supply: DC 5V from USB Port. Battery: 3.7V/7500mAh
HW Version	W100-2-002
SW Version	A1

## 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 EUT performs a pre-test of all modes, with only the worst test results reported.

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: Charging+ Wireless-charging the auxiliary device(cell phone) (Max laod)*
Radiated Test Cases	Mode 1: Wireless-charging the auxiliary device(cell phone) (Max laod)*

(\*)EUT can give different mobile phone to wirelessly charge, because the mobile phone is different, the load size is different, the test has evaluated high, medium, low three kinds of load situation. Only the worst-case mode is recorded in the report

Carrier Frequency and Channel list:

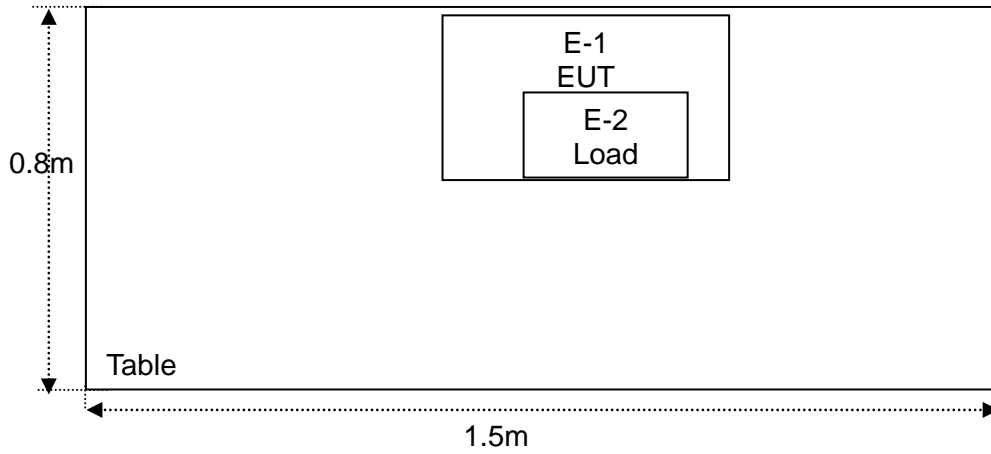
Channel	Frequency(MHz)
1	0.110
2	0.157
3	0.205

EUT built-in battery-powered, fully-charged battery use of the test battery

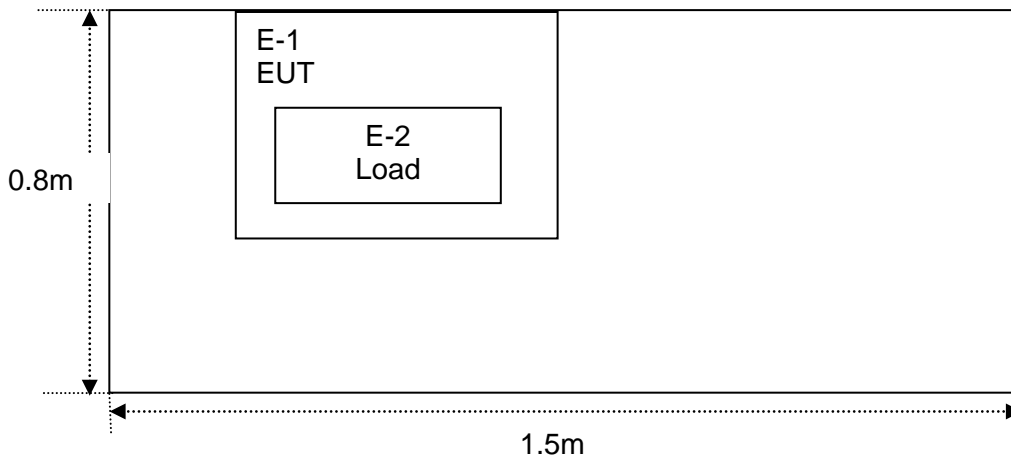


## 2.2 DESCRIPTION OF TEST SETUP

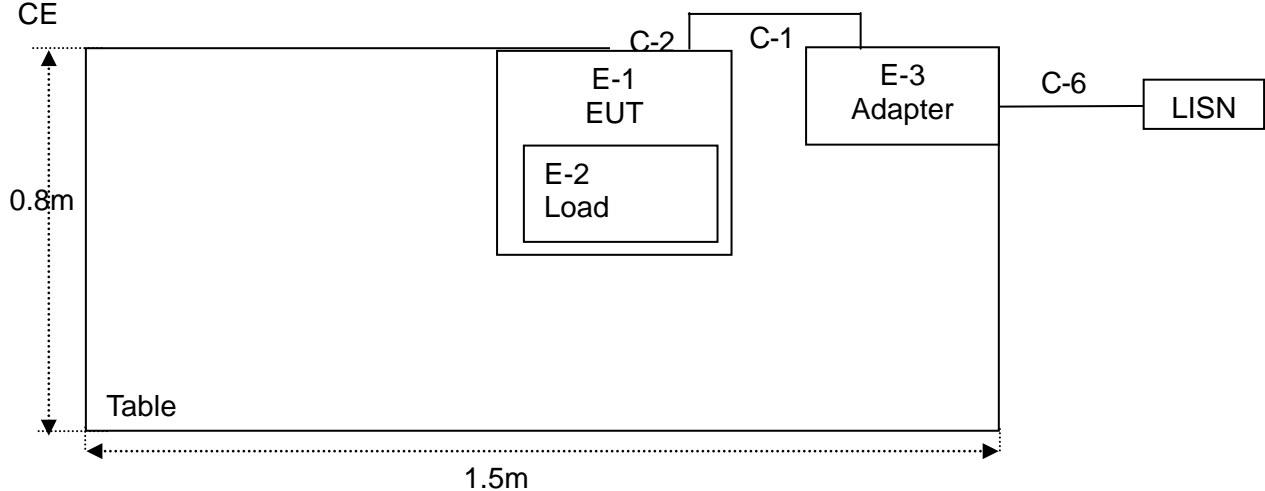
RE(9KHz-30MHz)( Wireless-charging the auxiliary device(cell phone))



RE(30MHz-1GHz) (Wireless-charging the auxiliary device(cell phone))



CE



## 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	HONEYCOMB	DASH75WC	N/A	EUT
E-2	Adapter	N/A	THX-050200KC	N/A	
E-3	Phone	SAMSUNG	SM-G9200	N/A	Note 4

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	unshielded	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”.
- (4) The mobile phone as the EUT's load is connected to the phone by charging the receiving end.

## 2.4 MEASUREMENT INSTRUMENTS LIST

### Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2016.07.06	2017.07.05	1 year
2	EMI Test Receiver	Agilent	N9020A	MY53227146	2016.06.06	2017.06.05	1 year
3	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
4	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
5	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.07	2017.06.06	1 year
6	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
9	Amplifier	EM	EM-30180	060538	2015.12.22	2016.12.21	1 year
10	Loop Antenna	SCHWARZB ECK	FMZB1516	1516131	2016.01.14	2017.01.13	1 year
11	Test Cable (9KHz-30MHz)	N/A	R-04	N/A	2016.06.06	2017.06.05	1 year
12	Test Cable (30MHz-1GHz)	N/A	R-01	N/A	2016.07.06	2017.07.05	1 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	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.07	2017.06.06	1 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2016.06.08	2017.06.07	1 year

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	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.

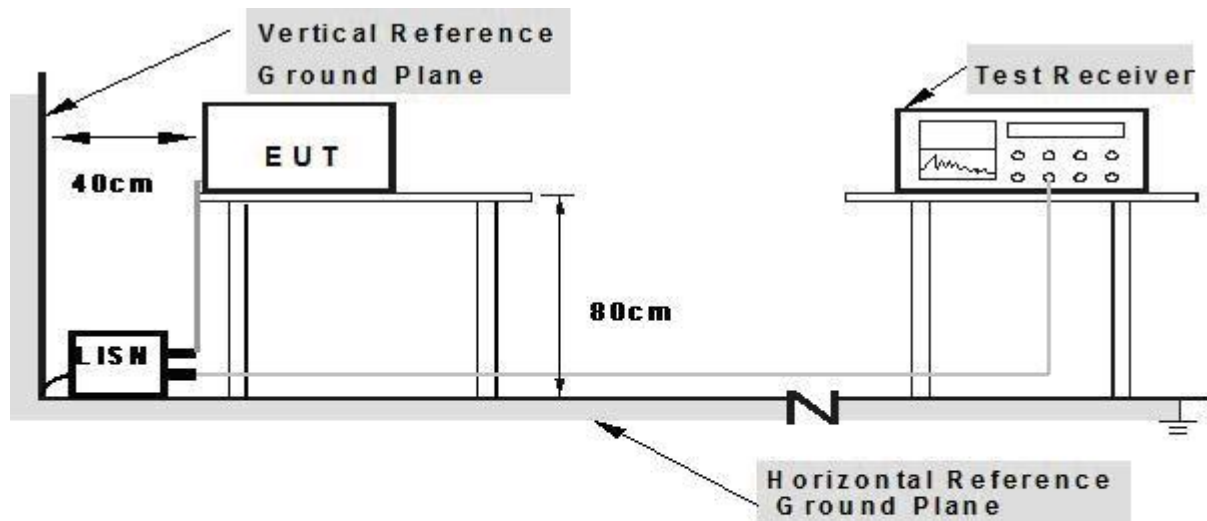
The following table is the setting of the receiver

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.

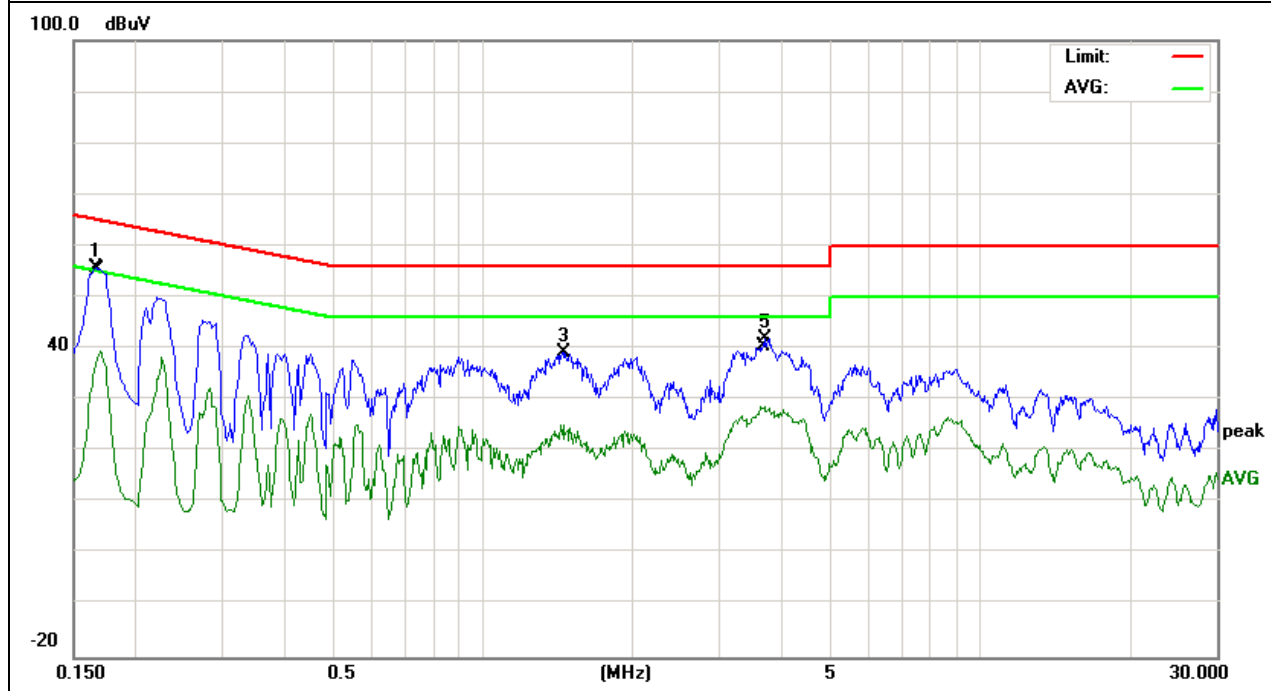
### 3.1.5 TEST RESULTS

EUT:	Power Bank	Model Name. :	DASH75WC
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2016-9-25
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V From Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1660	45.52	10.12	55.64	65.15	-9.51	peak
0.1700	29.39	10.12	39.51	54.96	-15.45	AVG
1.4620	29.43	9.81	39.24	56.00	-16.76	peak
3.6380	18.95	9.81	28.76	46.00	-17.24	AVG
3.6980	32.09	9.81	41.90	56.00	-14.10	peak

Remark:

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

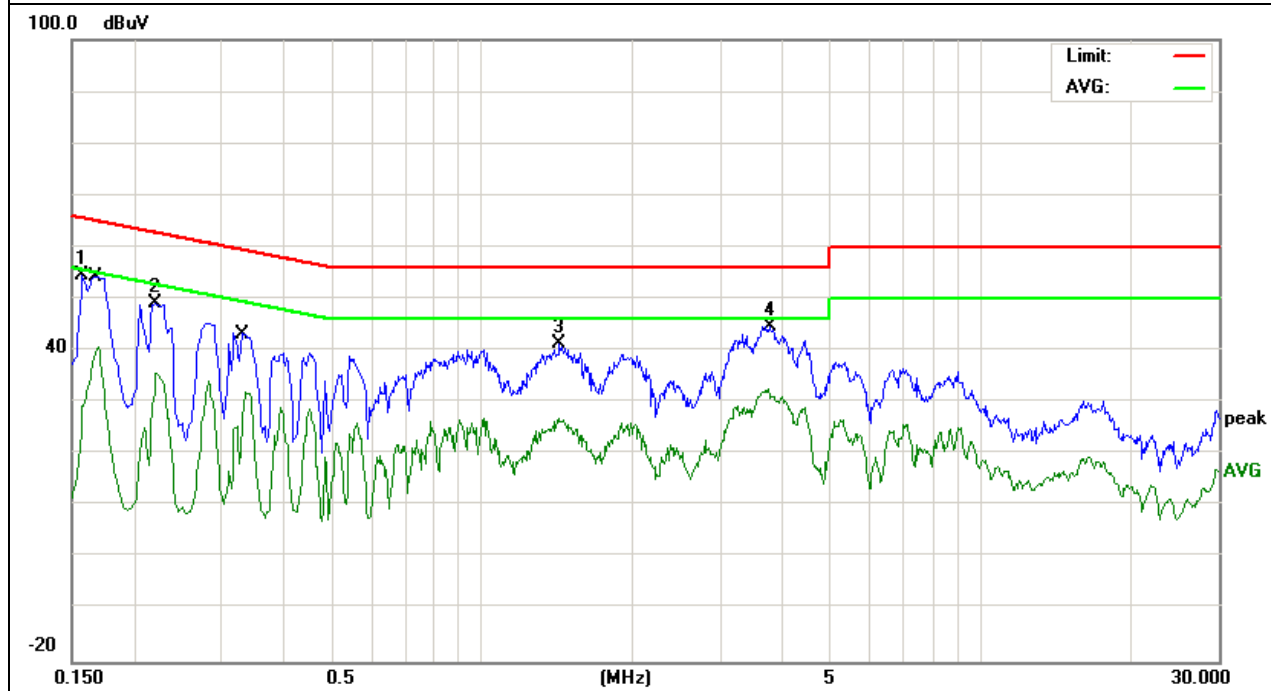


EUT:	Power Bank	Model Name. :	DASH75WC
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2016-9-25
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V From Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1580	44.43	10.07	54.50	65.56	-11.06	peak
0.2220	39.10	10.04	49.14	62.74	-13.60	peak
1.4260	31.65	9.84	41.49	56.00	-14.51	peak
3.7780	34.85	9.78	44.63	56.00	-11.37	peak
0.1700	30.82	10.06	40.88	54.96	-14.08	AVG
0.3340	21.81	10.10	31.91	49.35	-17.44	AVG
3.7460	22.91	9.78	32.69	46.00	-13.31	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):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	$2400 / F(\text{KHz})$	300m	$10000 * 2400/F(\text{KHz})$	$20\log 2400/F(\text{KHz}) + 80$
0.490 – 1.705	$24000 / F(\text{KHz})$	30m	$100 * 24000/F(\text{KHz})$	$20\log 24000/F(\text{KHz}) + 40$
1.705 – 30.00	30	30m	$100 * 30$	$20\log 30 + 40$
30.0 – 88.0	100	3m	100	$20\log 100$
88.0 – 216.0	150	3m	150	$20\log 150$
216.0 – 960.0	200	3m	200	$20\log 200$
Above 960.0	500	3m	500	$20\log 500$

#### 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
<sup>1</sup> 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 15.209 limit.



### 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, 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.

Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

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

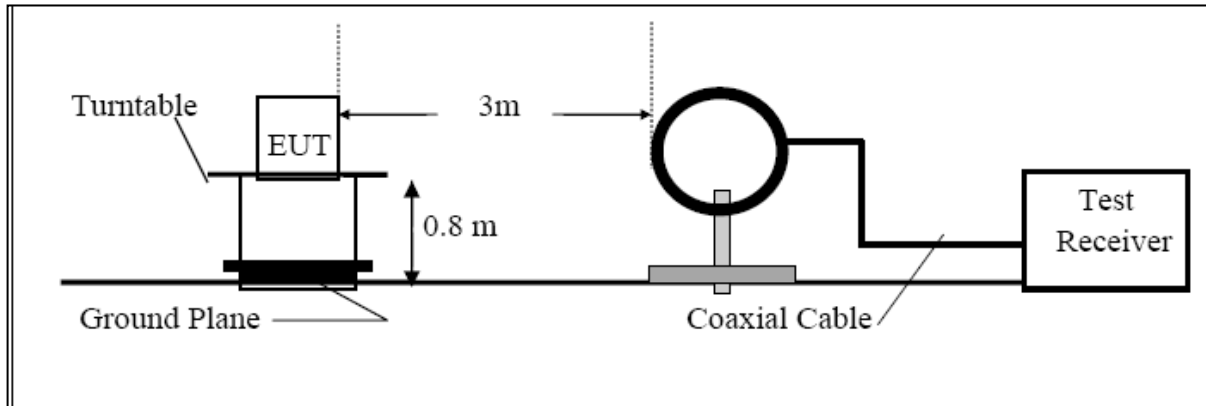
Sweep = auto

Detector function = QP

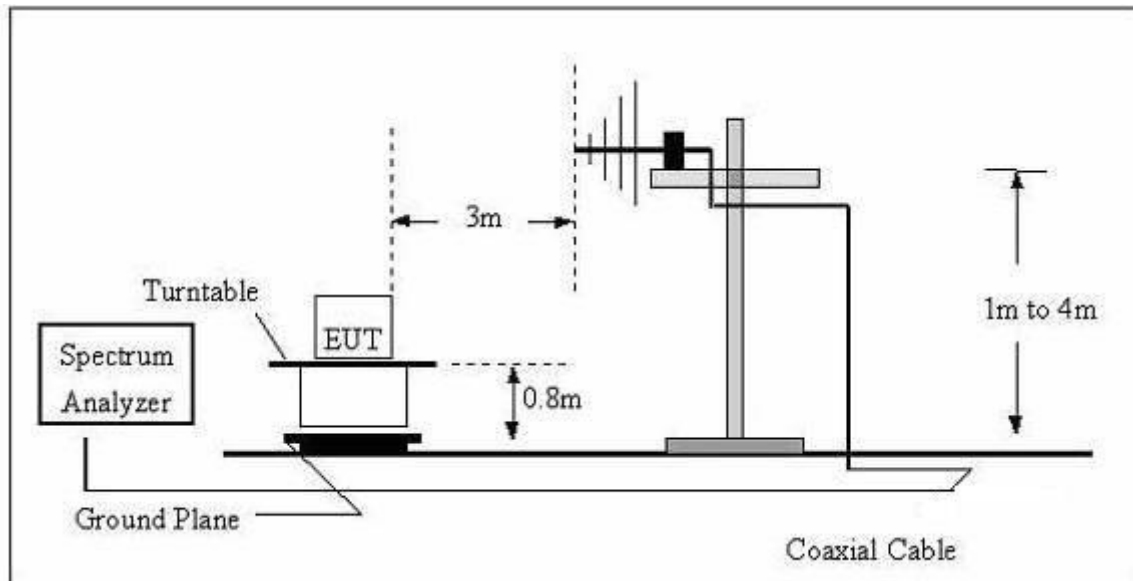
Trace = max hold

### 3.2.3 TEST SETUP

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	Model Name. :	DASH75WC
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-9-25
Test Mode :	Low frequency/Max Load	Polarization :	X
Test Power :	Built-in battery-powered, DC 3.7V		

Frequency	Ant.Pol.	Emission Level	Limits	Margin	Remark
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.033	X	41.623	117.234	-75.61	PK
0.110	X	81.631	106.776	-25.15	PK(fundamental frequency)
0.551	X	47.920	72.781	-24.86	PK
1.564	X	38.090	63.719	-25.63	PK
4.265	X	34.117	69.542	-35.43	PK
22.651	X	35.034	69.542	-34.51	PK

#### 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	Model Name. :	DASH75WC
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-9-25
Test Mode :	Mid frequency/Max Load	Polarization :	X
Test Power :	Built-in battery-powered, DC 3.7V		

Frequency	Ant.Pol.	Emission Level	Limits	Margin	Remark
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.036	X	39.651	116.4541	-76.80	PK
0.157	X	82.064	103.6862	-21.62	PK(fundamental frequency)
0.559	X	38.196	72.656	-34.46	PK
1.468	X	37.261	64.270	-27.01	PK
3.337	X	35.096	69.542	-34.45	PK
23.654	X	34.715	69.542	-34.83	PK

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	Model Name. :	DASH75WC
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-9-25
Test Mode :	High frequency/Max Load	Polarization :	X
Test Power :	Built-in battery-powered, DC 3.7V		

Frequency (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
0.034	X	39.651	117.0774	-77.43	PK
0.205	X	81.03	101.3691	-20.34	PK(fundamental frequency)
0.551	X	38.315	72.781	-34.47	PK
1.228	X	37.650	65.820	-28.17	PK
5.623	X	35.132	69.542	-34.41	PK
22.090	X	35.031	69.542	-34.51	PK

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.

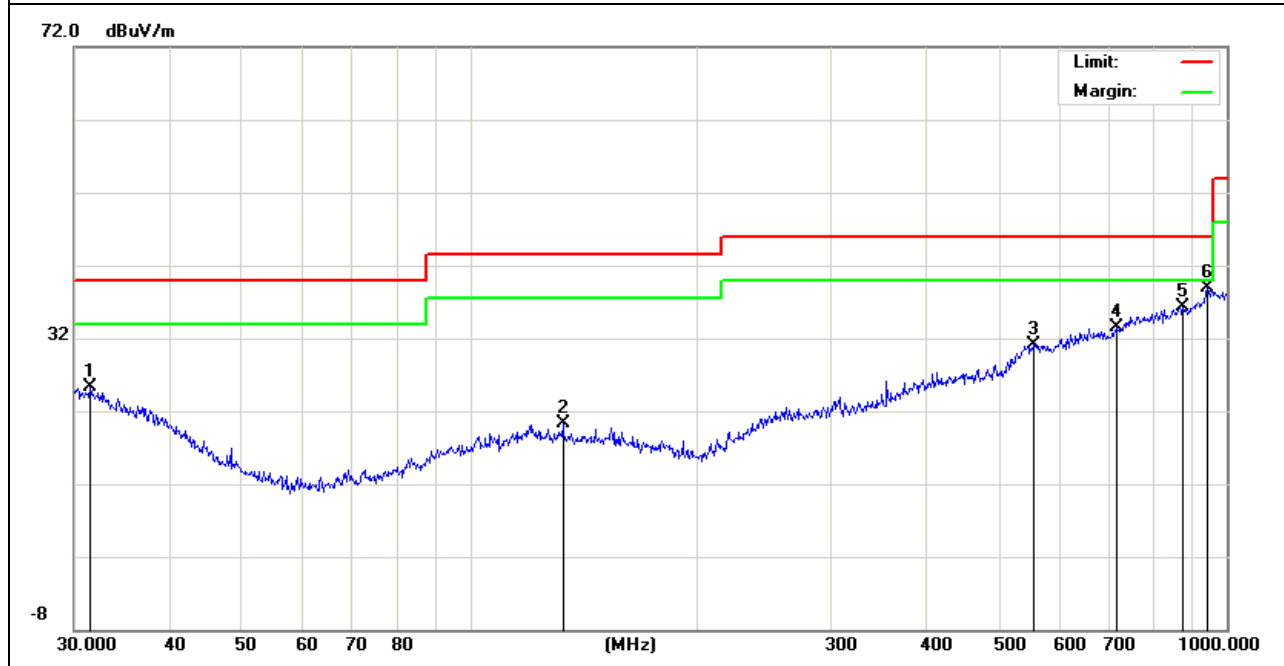
# TEST RESULTS (30MHz ~1000MHz)

EUT:	Power Bank	Model Name. :	DASH75WC
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-9-26
Test Mode :	Low frequency/Max Load	Polarization :	Horizontal
Test Power :	Built-in battery-powered, DC 3.7V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	31.5095	6.22	19.07	25.29	40.00	-14.71	QP
H	132.6850	6.97	13.24	20.21	43.50	-23.29	QP
H	554.8251	6.34	24.86	31.20	46.00	-14.80	QP
H	716.6820	7.34	26.25	33.59	46.00	-12.41	QP
H	875.2468	7.19	29.19	36.38	46.00	-9.62	QP
H	942.1305	7.89	31.11	39.00	46.00	-7.00	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

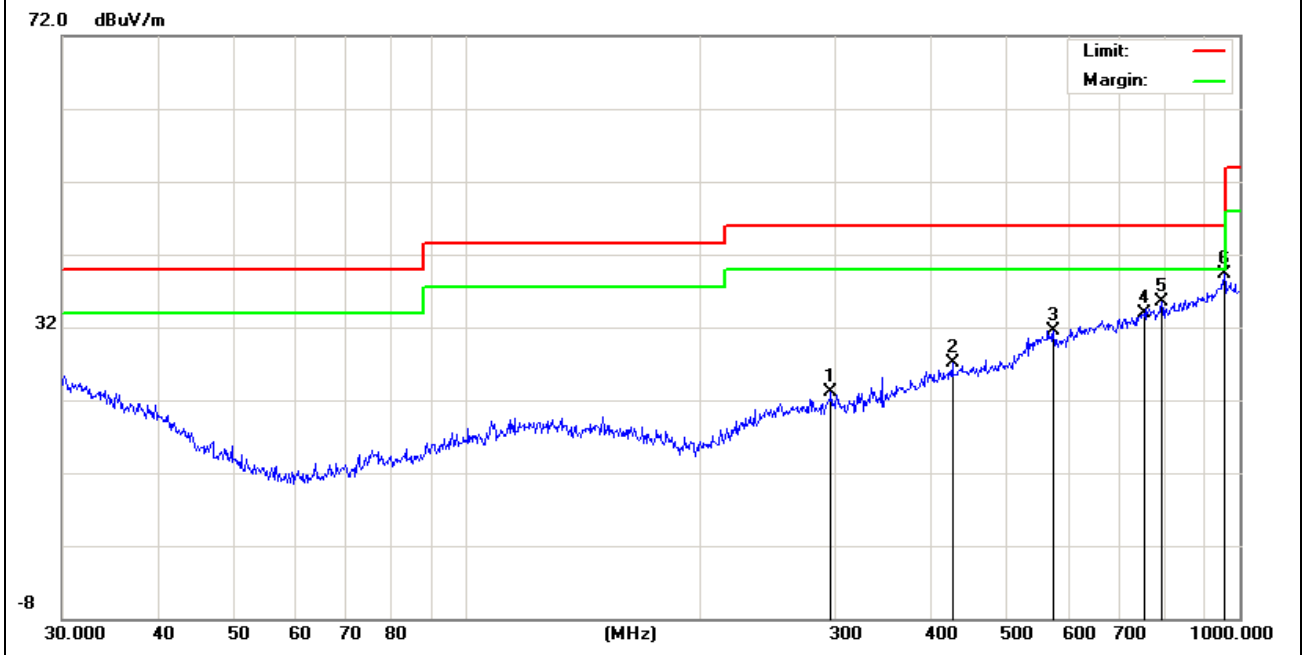


EUT:	Power Bank	Model Name. :	DASH75WC
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-9-26
Test Mode :	Low frequency/Max Load	Polarization :	Vertical
Test Power :	Built-in battery-powered, DC 3.7V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	296.1836	6.95	16.18	23.13	46.00	-22.87	QP
V	425.0280	6.45	20.57	27.02	46.00	-18.98	QP
V	574.6258	6.73	24.72	31.45	46.00	-14.55	QP
V	752.7432	6.19	27.69	33.88	46.00	-12.12	QP
V	793.3958	7.52	27.98	35.50	46.00	-10.50	QP
V	955.4379	7.97	31.37	39.34	46.00	-6.66	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

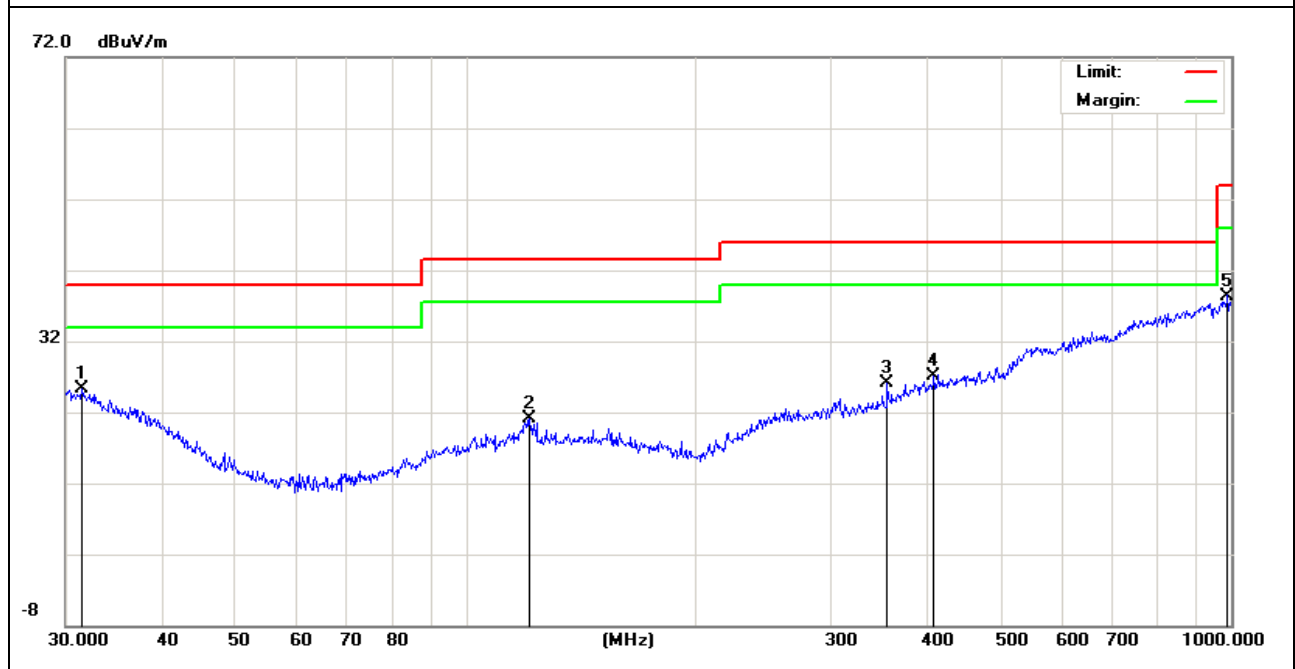


EUT:	Power Bank	Model Name. :	DASH75WC
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-9-26
Test Mode :	Middle frequency/Max Load	Polarization :	Horizontal
Test Power :	Built-in battery-powered, DC 3.7V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	31.5091	6.21	19.08	25.29	40.00	-14.71	QP
H	121.1230	7.38	13.82	21.20	43.50	-22.30	QP
H	355.4273	8.02	18.07	26.09	46.00	-19.91	QP
H	408.9460	6.72	20.35	27.07	46.00	-18.93	QP
H	989.5353	7.28	31.12	38.40	54.00	-15.60	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



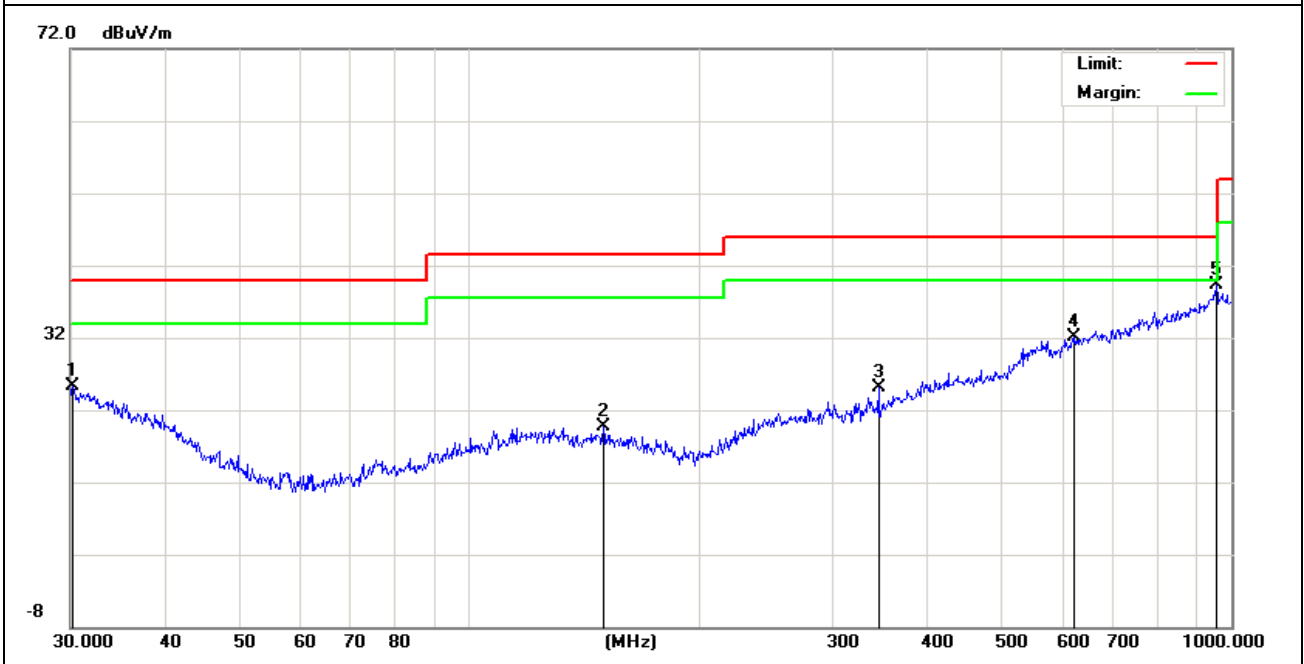


EUT:	Power Bank	Model Name. :	DASH75WC
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-9-26
Test Mode :	Middle frequency/Max Load	Polarization :	Vertical
Test Power :	Built-in battery-powered, DC 3.7V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.2103	5.54	19.77	25.31	40.00	-14.69	QP
V	150.0107	6.60	13.07	19.67	43.50	-23.83	QP
V	344.3854	7.41	17.64	25.05	46.00	-20.95	QP
V	622.8899	7.16	24.98	32.14	46.00	-13.86	QP
V	955.4379	7.97	31.37	39.34	46.00	-6.66	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

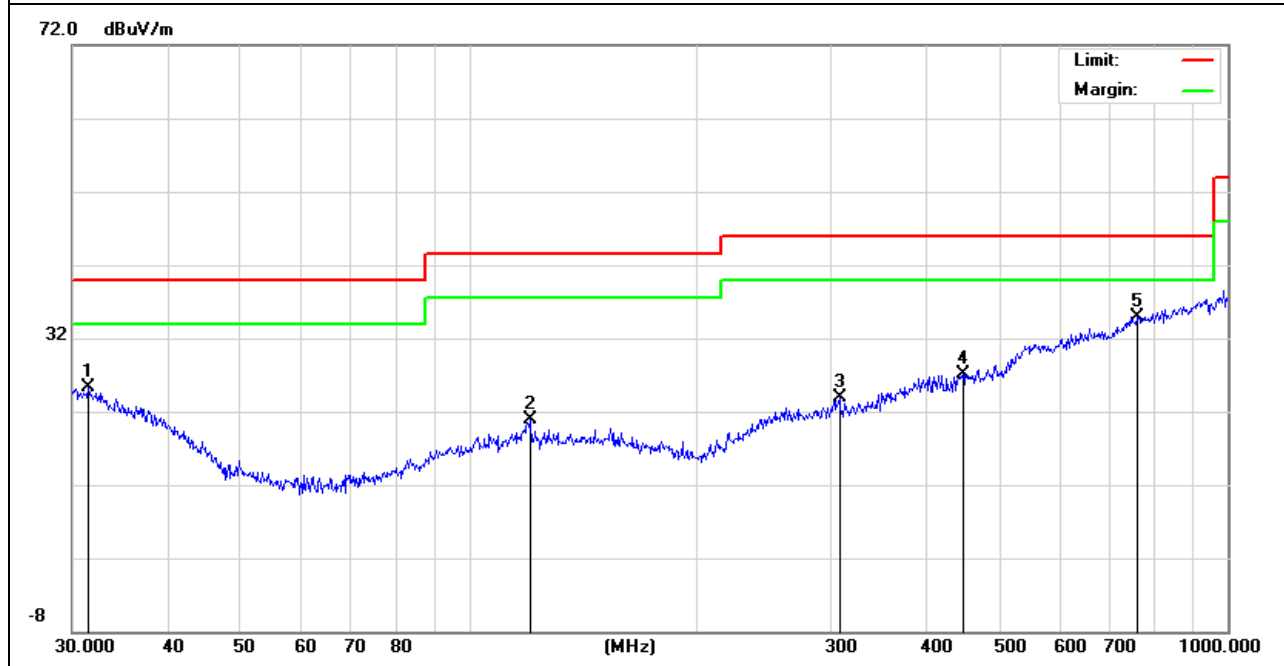


EUT:	Power Bank	Model Name. :	DASH75WC
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-9-26
Test Mode :	High frequency/Max Load	Polarization :	Horizontal
Test Power :	Built-in battery-powered, DC 3.7V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	31.5091	6.21	19.08	25.29	40.00	-14.71	QP
H	120.2766	7.04	13.86	20.90	43.50	-22.60	QP
H	307.8312	7.32	16.52	23.84	46.00	-22.16	QP
H	447.9821	6.17	20.87	27.04	46.00	-18.96	QP
H	760.7036	7.18	27.74	34.92	46.00	-11.08	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

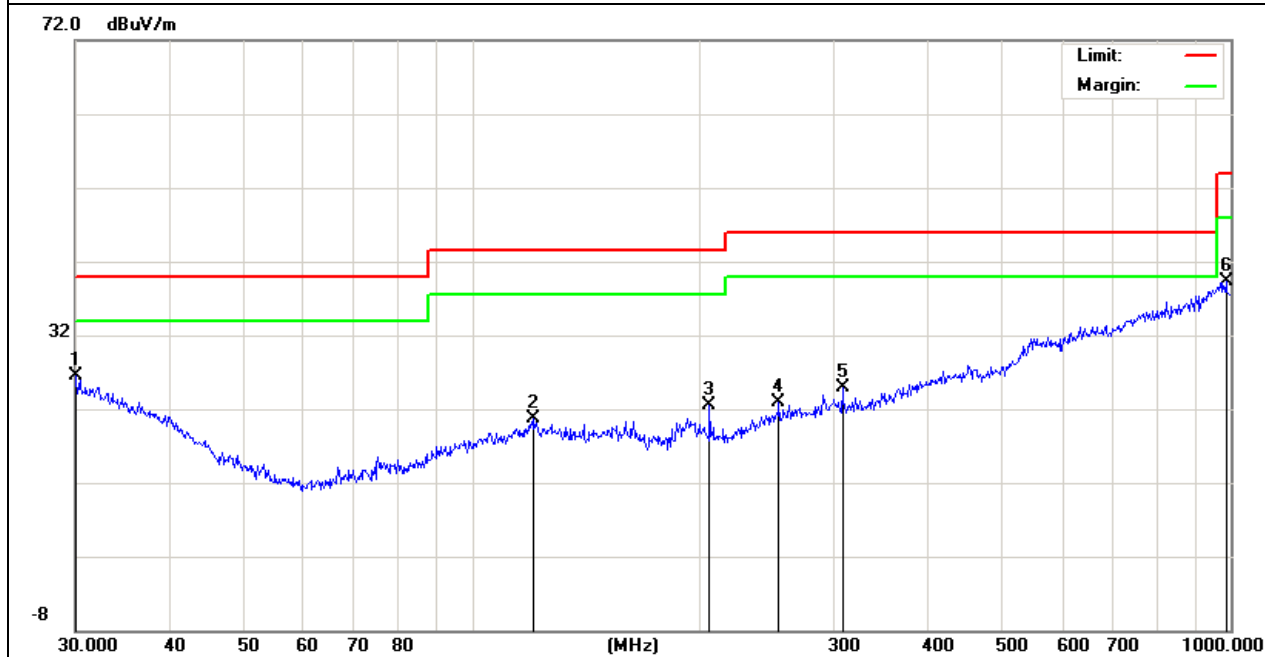


EUT:	Power Bank	Model Name. :	DASH75WC
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-9-26
Test Mode :	High frequency/Max Load	Polarization :	Vertical
Test Power :	Built-in battery-powered, DC 3.7V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.0000	6.64	19.88	26.52	40.00	-13.48	QP
V	120.6991	6.80	13.85	20.65	43.50	-22.85	QP
V	205.6750	11.79	10.80	22.59	43.50	-20.91	QP
V	253.8367	7.32	15.50	22.82	46.00	-23.18	QP
V	307.8312	8.32	16.52	24.84	46.00	-21.16	QP
V	986.0715	8.19	31.15	39.34	54.00	-14.66	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



## 4. BANDWIDTH TEST

### 4.1 TEST PROCEDURE

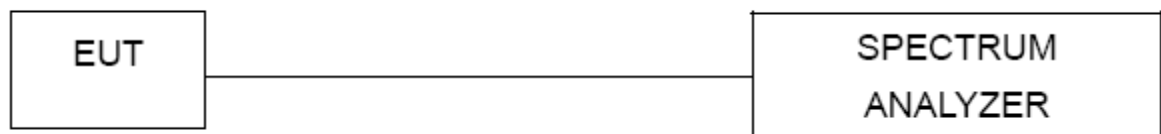
The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable:

(i) Transmitters designed for other types of modulation—when modulated by an appropriate signal of sufficient amplitude to be representative of the type of service in which used. A description of the input signal should be supplied.

### 4.2 DEVIATION FROM STANDARD

No deviation.

### 4.3 TEST SETUP

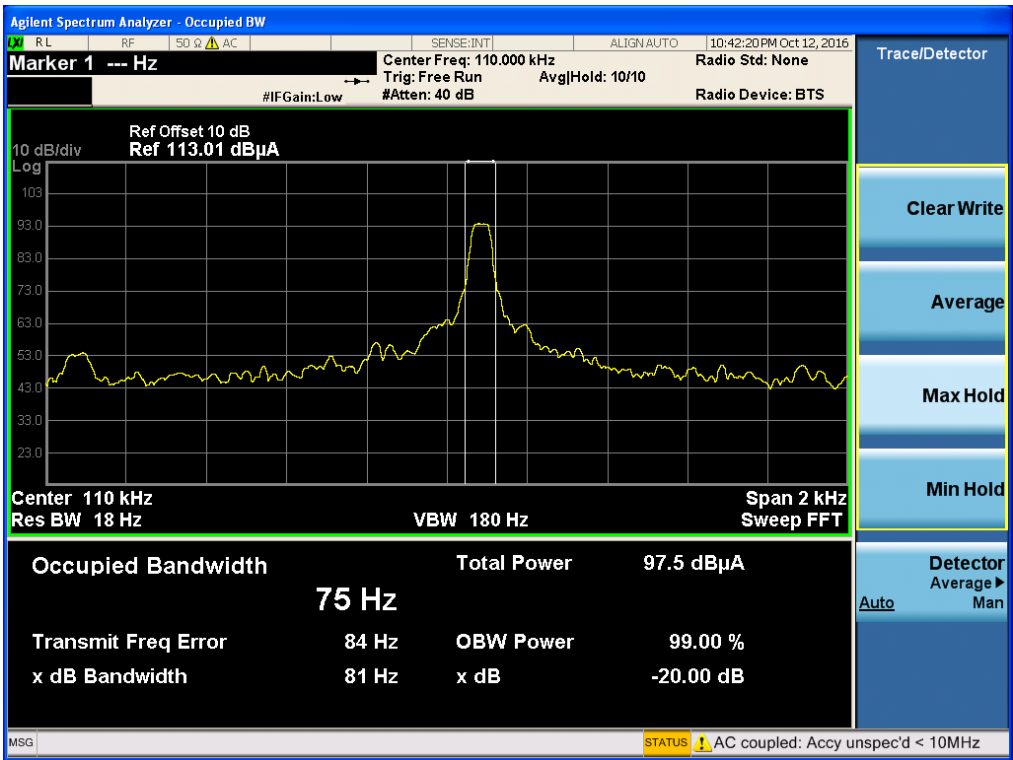


#### 4.4 TEST RESULTS

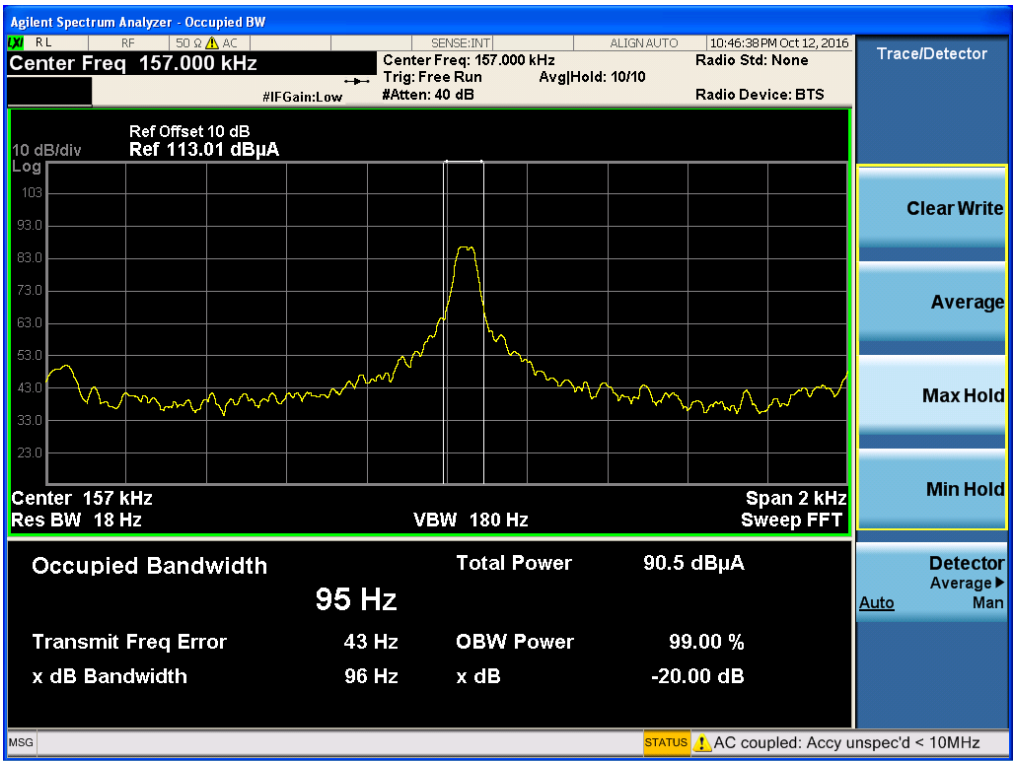
EUT :	Power Bank	Model Name. :	DASH75WC
Temperature :	26 °C	Relative Humidity :	53%
Pressure :	1020 hPa	Test Power :	Built-in battery-powered, DC 3.7V
Test Mode :	TX		

Test Channel	Frequency (KHz)	99% Bandwidth (Hz)	Limit (kHz)
CH01	110	75	/
CH02	157	95	/
CH03	205	85	/

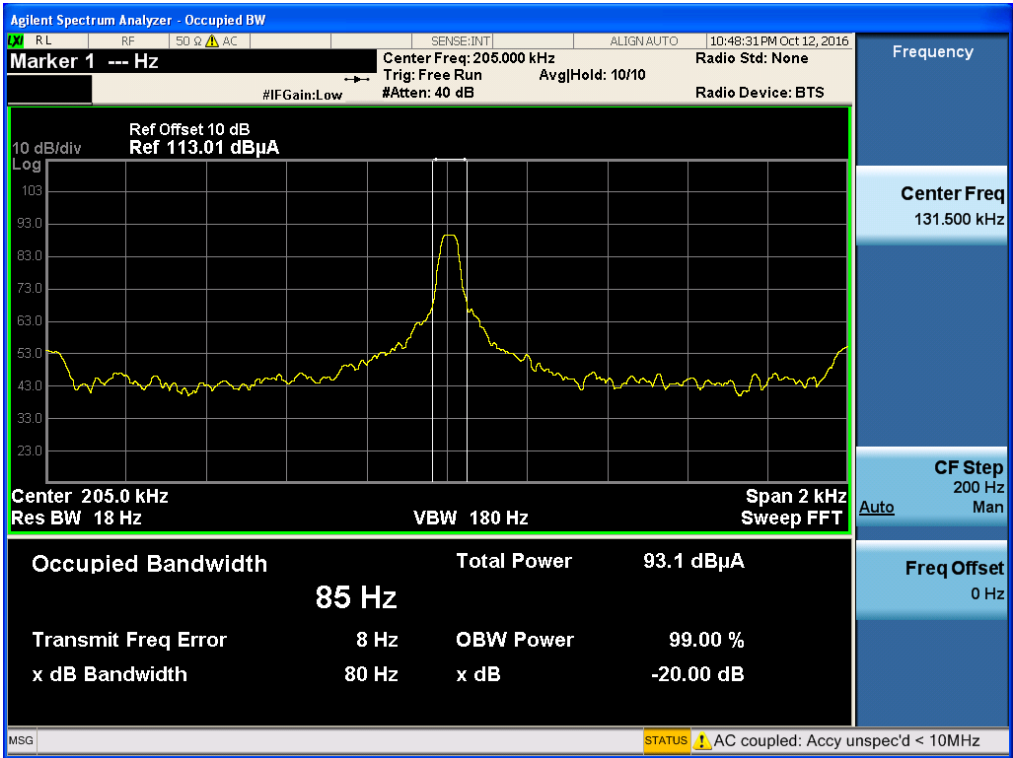
### CH 01



### CH 02



CH 03



## 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 comply with the standard requirement.



END REPORT