

## **RED-Radio Test Report**

For

Wireless power bank

Model No.: MSL-M617Q

Prepared For : Address :

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Date of Test : May 24~Jun. 05, 2018

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# TEST REPORT

Applicant :

Manufacturer :

Product Name : Wireless power bank

Model No. : MSL-M617Q

Trade Mark : N.A.

Input: DC 5V, 2A (with DC 3.7V, 5000mAh Battery inside)

Rating(s) USB Output: DC 5V, 2A

Type-C Output: DC 5V, 2A Wireless Output: DC 5V, 1A

Test Standard(s) : ETSI EN 303 417 V1.1.1 (2017-09)

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the ETSI EN 303 417 V1.1.1 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Prepared By

Reviewer

(Supervisor / Calvin Liu)

Approved & Authorized Signer

(Manager / Tom Chen)



## 1. General Information

#### 1.1. Client Information

Applicant	:	2.				And	Anb	otek	Anborotek	b.
Address	:	410	Ser.	V.	0-	V11.		LON	~00	
Manufacturer	:			ALC:	24.0	A.	-V-	Anboten	K Anbo	otek
Address	:	6						1: V	20	

## 1.2. Description of Device (EUT)

Product Name	:	Wireless power bank	
Model No.	:	MSL-M617Q	book Anbotek Anbotek Anb
Trade Mark	:	N.A.	Anbotek Anbotek Anbote Anbote
Test Power Supply	:	AC 230V, 50Hz for adapter	And Anbotek Anbotek An
		Operation Frequency:	110-205KHz
		Number of Channel:	20 Channels
Product Description	:	Modulation Type:	FSK
Description	Antenna Typ	Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi dek mooten And

**Remark:** 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

### 1.3. Auxiliary Equipment Used During Test

	- ATV	- 1/	L DY	1.0.1	 1. 14	010
2/2	Adapter	:	Manufacturer: ZTE			Aupo
.0			M/N: STC-A2050I1000USBA-C			Anbe
p			S/N: 201202102100876			D.
			Input: 100-240V~50/60Hz 0.3A			ik.
P			Output: DC 5V, 1000mA			V.



#### 1.4. Description of Test Modes

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below:

	Test Items	Test Mode
Anboten	Permitted range of operating frequencies	Anbotek TX Anbo
Aupoten	Operating frequency ranges	ek AnboretTX Anboret
Anbot	H-field requirements	botek AntaX Anta
ek Ant	Transmitter spurious emissions	TX and RX
otek	Transmitter out of band (OOB) emissions	TX and RX
Anborer	Receiver blocking	TX and RX

#### 1.5. List of channels

	Channel		Freq.			
0			(MHz)			
Nupole.	01	Mor	110kHz			
Note: Available frequency range is 110-205KHz						

#### 1.6. Test Conditions

	Normal Test Conditions	Ext	reme Test Cor	nditions	
Temperature	15°C - 35°C	-10	°C ~ 45°C No	te: (1)	botek
Relative Humidity	20% - 75%	N/A	1 hotek	Anbore	N. O.
Supply Voltage	AC 230V, 50Hz for adapter	N/A	A hotek	Anbotes	Anb
Note: (1) The HT 45°C	and LT -10°C was declarated by manufactor	urer.	VUP	ek nbotel	A.C.



#### 1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
otek 1. mbotek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 17, 2017	1 Year
2,00	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
3.40	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 17, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 17, 2017	1 Year
5.	Spectrum Analysis	Agilent	N9038A	MY53227295	Nov. 17, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G3 0D	KD17503	Nov. 17, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Nov. 17, 2017	1 Year
8.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
9.4	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
10.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
11.,,	Horn Antenna	Schewarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 18, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
16.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
17.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
18.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
19.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
20.	DC Power Supply	LW AND	TPR-6410D	349315	Nov. 01, 2017	1 Year
21.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS8 0B	ZJ-17042804	Nov. 01, 2017	1 Year



#### 1.8. Measurement Uncertainty

For the test methods, according to ETSI EN 303 417 standard, the measurement uncertainty figures shall be calculated in accordance with ETR 100 028-1 [4] and shall correspond to an expansion factor (coverage factor) k = 1,96 or k = 2 (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Maximum measuren	nent uncertainty				
Parameter	Uncertainty				
Occupied Channel Bandwidth	±5 %				
RF output power, conducted	±1,5 dB				
Power Spectral Density, conducted	±3 dB				
Unwanted Emissions, conducted	±3 dB				
All emissions, radiated	±6 dB				
Temperature And	±1 °C				
Humidity	±5 %				
DC and low frequency voltages	±3 %				
Time Anbotek	±5 %				
Duty Cycle	±5 %				

#### 1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

#### ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

#### **Test Location**

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District Shenzhen, Guangdong, China.518102



## 2. Summary of Test Results

	List of Measurements		
No	Test Items	Clause No.	Results
ot1×	Permitted range of operating frequencies	4.3.2	PASS
2010	Operating frequency ranges	4.3.3	PASS
3	H-field requirements	4.3.4	PASS
4	Transmitter spurious emissions	4.3.5	PASS
<sub>2</sub> × 5	Transmitter out of band (OOB) emissions	4.3.6	PASS
6	WPT system unwanted conducted emissions	4.3.7	N/A
7ote	Receiver blocking	4.4.2	PASS

Note: N/A is an abbreviation for Not Applicable and means this test item is not applicable for this device according to the technology characteristic of device.



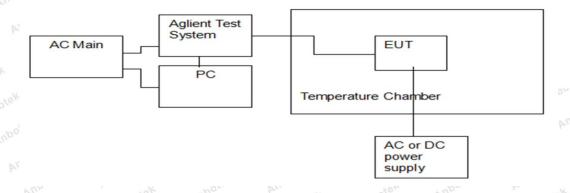
# 3. Permitted range of operating frequencies/ Operating frequency ranges

#### 3.1. Limit

The permitted range of operating frequency range(s) for intentional emissions shall be within 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6765 - 6 795 kHz, see Table below

	WPT frequency range	Frequency Bands	Applications
Transmit and Receive	1	19 kHz to 21 kHz	WPT systems
Transmit and Receive	2	59 kHz to 61 kHz	WPT systems
Transmit and Receive	3	79 kHz to 90 kHz	WPT systems
Transmit and Receive		100 kHz to 119 kHz	WPT systems
Transmit and Receive	4	119 kHz to 140 kHz	WPT systems
Transmit and Receive	4	140 kHz to 148,5 kHz	WPT systems
Transmit and Receive		148,5 kHz to 300 kHz	WPT systems
Transmit and Receive	5	6 765 kHz to 6 795 kHz	WPT systems

#### 3.2. Test Setup



#### 3.3. Test Procedure

Refer to chapter 4.3.2 &4.3.3 of EN 303 417 V1.1.1

#### 3.4. Test Data

Please to see the following pages

Test Result: PASS



Temperature:	See below	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage:	AC 230V, 50Hz for adapter

Test Condition			Frequency (KHz)		
	1est Con	aition	Lowest	Highest	
Tnom (°C)	+20	Vnom (230V)	110.14	204.50	
Tmin (℃) -10	Vmin (207V)	110.23	204.48		
	Vmax (253V)	110.28	204.45		
otek Anbo	ie. Vu	Vmin (207V)	110.20	204.53	
Tmax (℃)	+45	Vmax (253V)	110.17	204.59	
Measured	frequencies	(lowest and highest)	FL = > 110KHz	FH = <205KHz	



## 4. H-field requirements

#### 4.1. Test Limit

The H-field limits are provided in Table below.

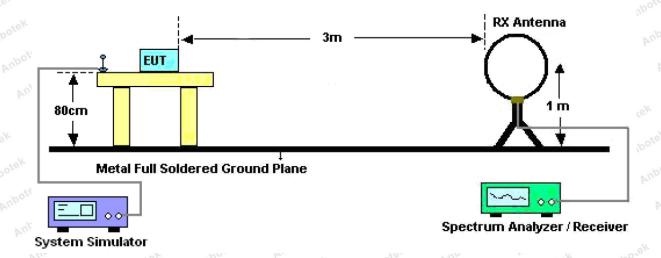
They have been specified for control of any radiated emissions within the OFR originating from the WPT system (Power transmission and accompanying data communication).

#### H-field limits

Frequency range [MHz]	H-field strength limit [dBµA/m at 10 m]	Comments
0,019 ≤ f < 0,021	72	
$0,059 \le f < 0,061$	69,1 descending 10 dB/dec above 0,059 MHz	See note 1
$0,079 \le f < 0,090$	67,8 descending 10 dB/dec above 0,079 MHz	See note 2
0,100 ≤ f < 0,119	42	
$0,119 \le f < 0,135$	66 descending 10 dB/dec above 0,119 MHz	See note 1
0,135 ≤ f < 0,140	42	
$0,140 \le f < 0,1485$	37,7	
$0,1485 \le f < 0,30$	-5	
6,765 ≤ f < 6,795	42	

NOTE 1: Limit is 42 dBµA/m for the following spot frequencies: 60 kHz ± 250 Hz and 129,1 kHz ± 500 Hz.
NOTE 2: At the time of preparation of the present document the feasibility of increased limits for high power wireless power transmission systems to charge vehicles [i.4] was prepared. New specific requirements for such systems (e.g. higher H-field emission limits in the 79 - 90 kHz band) will be reflected within a future revision of the present document.

#### 4.2. Test Setup



#### 4.3. Test Procedure

Refer to chapter 4.3.4 of EN 303 417 V1.1.1.

The conformance test suite for H-field requirements shall be as defined in clause 6.2.1.

#### 4.4. Test Data

Test Result: PASS

No result in this part for margin above 20dB. So didn't show test data in the report



## 5. Transmitter spurious emissions

#### 5.1. Test Limit

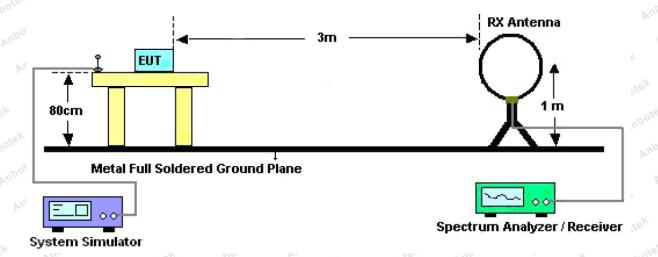
The radiated field strength of spurious emissions below 30 MHz shall not exceed the generated H-field given in Table below.

State (see note)	Frequency 9 kHz ≤ f < 10 MHz	Frequency 10 MHz ≤ f < 30 MHz	
Operating	27 dBμA/m at 9 kHz descending 10 dB/dec	-3,5 dBμA/m	
Standby	5,5 dBμA/m at 9 kHz descending 10 dB/dec	-25 dBμA/m	
NOTE: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means m according to Table 2.		able 2; "standby" means mode 1	

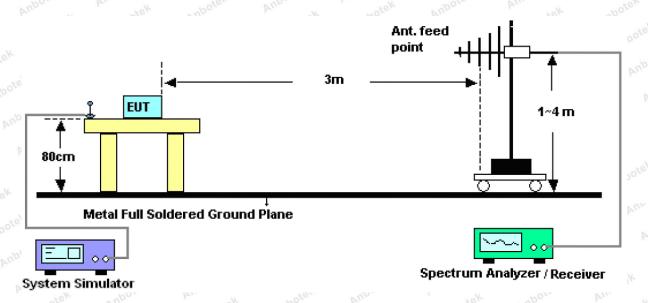
The power of any radiated spurious emission between 30MHz and 1GHz shall not exceed the values given in Table below

	47 MHz to 74 MHz	
State (see note)	87,5 MHz to 118 MHz	Other frequencies between
State (See Hote)	174 MHz to 230 MHz	30 MHz to 1 000 MHz
	470 MHz to 790 MHz	
Operating	4 nW	250 nW
Standby	2 nW	2 nW
NOTE: "Operating" mea	ins mode 2, 3 and 4 according to Table 2; "s	tandby" means mode 1 according to
Table 2.		

#### 5.2. Test Setup







#### **5.3. Test Procedure**

Refer to chapter 4.3.5 of EN 303 417 V1.1.1.

The conformance test suite for unwanted emissions shall be as defined in clause 6.2.1.

The manufacturer shall declare all necessary information (distance, orientation) which are necessary to set-up the different alignments as defined in clause 6.1.1 for each operational mode as defined in clause 4.2.3, Table 2.

Conformance shall be established under test conditions to be declared by the manufacturer according to clause 4.1. The interpretation of the results for the measurements uncertainty shall be as given in clause 5.11.

#### 5.4. Test Data

Temperature:	25° C	Aug	Relative Humidity:	60 %
Pressure:	1012 hPa	AUG	Test Voltage:	AC 230V, 50Hz for adapter



Frequency Range	9kHz ~ 30MHz	Test Mode	Operating
-----------------	--------------	-----------	-----------

Freq. (KHz)	Reading (dBμA/m)	Correct Factor(dB)	H <sub>f</sub> (dBμA/m)	Limit (dBµA/m)	Margin (dB)
ek 110 otek	-18.53	7.51	-11.02	4.38	-15.4
12560	-51.27	11.24	-40.03	-25.04	-14.99

Note: The limit in dBµA/m at 10 m

Frequency Range	30MHz ~ 1GHz	Test Mode	Operating
-----------------	--------------	-----------	-----------

SPURIOUS EMISSION LEVEL					
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)	
81.53	And H	-65.58	-36	-29.58	
298.27	YOK ANH	-56.72	-36	-20.72	
352.71	hotek Habote	-57.31	-36 Marie	-21.31	
488.16	otek H abotek	-67.17	botek-54 Ambote	-13.17	
705.43	And K H wotek	-57.15	-54	-3.15	
95.3	V	-66.42	-54	-12.42	
298.48	V	-57.64	-36	-21.64	
352.84	v V	-56.18	-36	-20.18	
488.69	V hotek	-67.25	-54 Joo <sup>ten</sup>	-13.25	
705.72	por V stek	-66.74	-54 -54	-12.74	

**Note**: The limit in dBμA/m at 3 m



Frequency Range 9kHz ~ 30MHz Test Mode Standby	upo'
--	------

Freq. (KHz)	Reading (dBμA/m)	Correct Factor(dB)	H <sub>f</sub> (dBμA/m)	Limit (dBµA/m)	Margin (dB)
110	-18.51	7.58	-10.93	4.35	-15.28
12560	-51.16	11.45	-39.71	-25.17	-14.54

Note: The limit in dBµA/m at 10 m

Frequency Range 30MHz~1GHz	Test Mod	de Standby
----------------------------	----------	------------

SPURIOUS EMISSION LEVEL							
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)			
30.84	H Hotek	-59.68	-57	-2.68			
48.16	H	-62.54	-57	-5.54			
82.43	botek HAnbo	-74.12	-57 And	-17.12			
191.55	botek H Anbote	-82.19	-57 Anbotel	-25.19			
324.28	-H	-72.53	-57	-15.53			
431.52	Н	-72.62	-57	-15.62			
32.43	V	-60.77	-57	-3.77			
48.39	e <sup>V</sup> V	-70.64	-57	-13.64			
97.12	otek Vanbotek	-69.15	hotek -57Anbote	-12.15			
125.33	V botek	-79.18	tek -57	-22.18			
324.28	Anbott V An	-78.64	-57	-21.64			
431.56	Anbore V Anb	-70.19	Anbout-57	-13.19 of			

**Note**: The limit in dBµA/m at 3 m



## 6. Transmitter out of band (OOB) emissions

#### 6.1. Test Limit

The OOB limits are visualized in figures 4 and 5; they are descending from the intentional limits from Table 3 at  $f_H/f_L$  with 10 dB/decade.

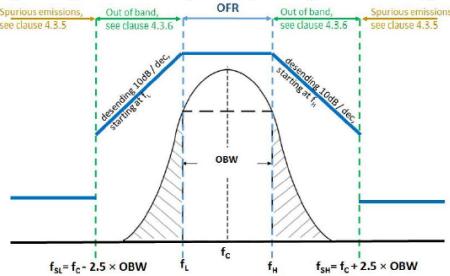
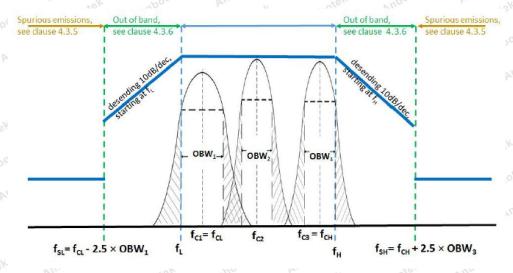


Figure 4: Out of band and spurious domain of a single frequency WPT system

The transmitter spurious emissions for a single frequency system are to be considered in frequency ranges defined in Figure 4 ( $f < f_{SL}$  and  $f > f_{SH}$ ).



The transmitter spurious emissions for a multi frequency system (within one WPT frequency range from Table 2) are to be considered in frequency ranges defined in Figure 5 (  $f < f_{SL}$  and  $f > f_{SH}$ ).

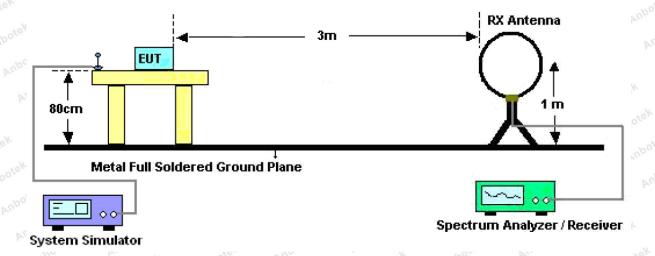


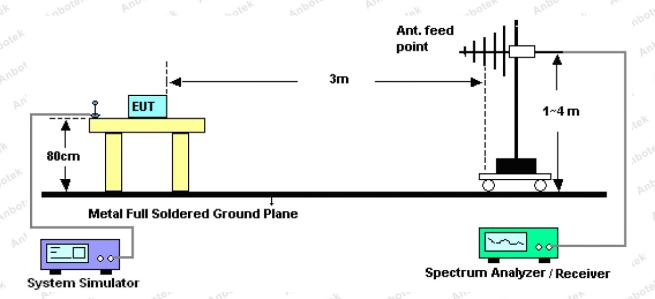
Table 3: H-field limits

Frequency range [MHz]	H-field strength limit [dBµA/m at 10 m]	Comments	
0,019 ≤ f < 0,021	72		
$0,059 \le f < 0,061$	69,1 descending 10 dB/dec above 0,059 MHz	See note 1	
$0,079 \le f < 0,090$	67,8 descending 10 dB/dec above 0,079 MHz	See note 2	
0,100 ≤ f < 0,119	42		
0,119 ≤ f < 0,135	66 descending 10 dB/dec above 0,119 MHz	See note 1	
0,135 ≤ f < 0,140	42		
0,140 ≤ f < 0,1485	37,7		
0,1485 ≤ f < 0,30	-5		
6,765 ≤ f < 6,795	42		

NOTE 1: Limit is 42 dBμA/m for the following spot frequencies: 60 kHz ± 250 Hz and 129,1 kHz ± 500 Hz.
 NOTE 2: At the time of preparation of the present document the feasibility of increased limits for high power wireless power transmission systems to charge vehicles [i.4] was prepared. New specific requirements for such systems (e.g. higher H-field emission limits in the 79 - 90 kHz band) will be reflected within a future revision of the present document.

#### 6.2. Test Setup







#### 6.3. Test Procedure

Refer to chapter 4.3.6 of EN 303 417 V1.1.1.

The conformance test suite for Transmitter out of band emissions is provided in clause 6.2.1.

Conformance shall be established under test conditions to be declared by the manufacturer according to clause 4.1. The interpretation of the results for the measurements uncertainty shall be as given in clause 5.11.

#### 6.4. Test Data

Test Result: PASS



## 7. WPT system unwanted conducted emissions

#### 7.1. Test Limit

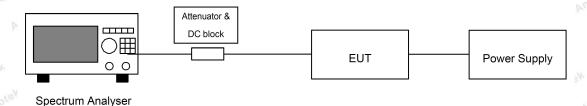
This applies to all WPT systems where the cable to the primary coil exceeds a length of 3 m and where the cable is not installed in the ground or any metallic structures.

The common mode current (IcM) between 1 MHz and 30 MHz shall not exceed the following limit:

$$I_{CM} = 47 - 8 \times log(f) dB\mu A$$

NOTE: f is the frequency in MHz.

#### 7.2. Test Setup



#### 7.3. Test Procedure

Refer to chapter 4.3.7 of EN 303 417 V1.1.1.

The conformance test suite for common mode current shall be as defined in clause 6.2.4.

The manufacturer shall declare all necessary information (distance, orientation) which are necessary to set-up the different alignments as defined in clause 6.1.1 for each operational mode as defined in clause 4.2.3, Table 2.

Conformance shall be established under test conditions to be declared by the manufacturer according to clause 4.1. The interpretation of the results for the measurements uncertainty shall be as given in clause 5.11.

#### 7.4. Test Data

N/A

The cable to the primary coil is less than 3 m



# 8. Receiver blocking

#### 8.1. Test Limit

#### Receiver blocking limits

	In-band signal	OOB signal	Remote-band signal
Frequency	Centre frequency (fc) of the WPT	f = f <sub>c</sub> ± F (see note)	$f = f_c \pm 10 \times F$ (see note)
100 May 100 Ma	system (see clause 4.3.3)	100 0000 110 0000 1000 0000 000	
Signal level field strength at	72 dBµA/m	72 dBµA/m	82 dBµA/m
the EUT	,		,
NOTE: F = OFR see claus	e 4.3.3.		•

#### 8.2. Test Setup

WPT system in operational mode → e.g. in mode 3 or 4 (see clause 6.1)

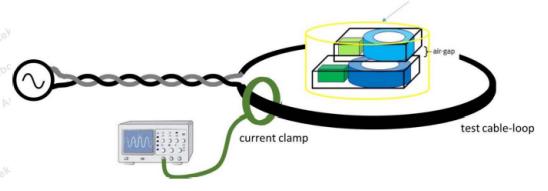


Figure 11: Schematic test set-up for the RX-blocking test

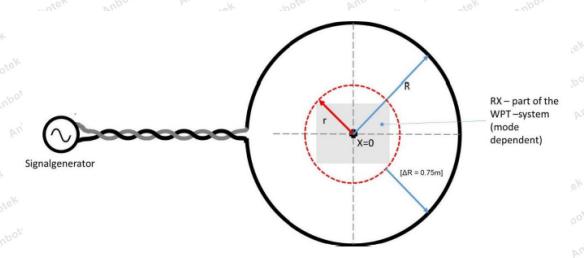


Figure 12: Schematic test set-up for the RX-blocking test



#### 8.3. Test Procedure

Refer to chapter 4.4.2 of EN 303 417 V1.1.1.

The conformance test suite for performance criterion test shall be as defined in clause 6.3.2 and within the test-set-ups as defined in clause 6.1.

Conformance shall be established under test conditions to be declared by the manufacturer according to clause 4.1. The interpretation of the results for the measurements uncertainty shall be as given in clause 5.11.

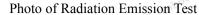
#### 8.4. Test Data

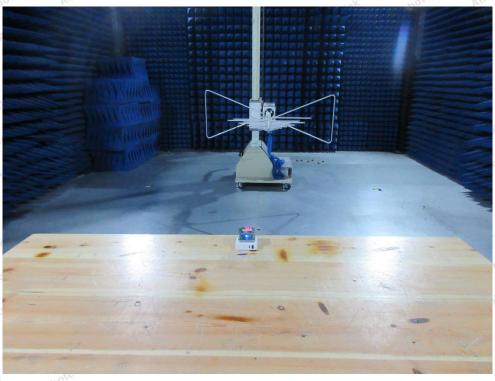
Test Result: PASS

The product meets the wanted performance criterion at all times.



## APPENDIX I -- TEST SETUP PHOTOGRAPH







----- End of Report -----