

# **RF Test Report**

Report No.: AGC04094180504EE17

**PRODUCT DESIGNATION**: Wireless charging set

BRAND NAME : N/A

**MODEL NAME** : P324.61(wireless charging)

MANUFACTURER : Xindao B.V.

**DATE OF ISSUE** : May 21, 2018

**STANDARD(S)** : ETSI EN 303 417 V1.1.1(2017-09)

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.

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# **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	pilloros / © Alle	May 21, 2018	Valid	Initial Release

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# 1. TEST RESULT CERTIFICATION

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The above equipment was tested by SHENZHEN ATTESTATION OF GLOBAL COMPLIANCE (SHENZHEN) CO., LTD. for compliance with the requirements set forth in the European Standard ETSI EN 303 417 V1.1.1. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested by	Max 2h	eng	
	Max Zhang(Zhang Yi)	May 21, 2018	
Reviewed by	Bore se		
	Bart Xie(Xie Xiaobin)	May 21, 2018	
Approved By	Formerst ce	也那	
	Forrest Lei(Lei Yonggang)	May 21, 2018	

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# 2. EUT DESCRIPTION

Details of technical specification refer to the description in follows:

Hardware Version	V1.0
Software Version	V1.0
The permitted range of operating frequencies used	110-205KHz
Test Frequency	156KHz
Number of Channels	1 Channel
Antenna Type	Integral antenna
Operational Mode	Mode 3: communication  Mode 4: energy transmission
Power Supply	DC 5V (Worst case)

NOTE: For more information, please refer to User's Manual.

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# 3. DESCRIPTION OF TEST ITEMS

Harmonised Standard ETSI EN 303 417						
	Requirement	Requirement Conditionality				
No	Description	Requirement Conditionality				
1	Permitted range of operating frequencies					
2	Operating frequency ranges					
3	H-field requirements					
4	Transmitter spurious emissions					
5	Transmitter out of band (OOB) emissions					
6	WPT system unwanted conducted emissions	☐ Applicable ☒ Not Applicable				
7.	Receiver blocking					

## 4. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner
Location	Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China

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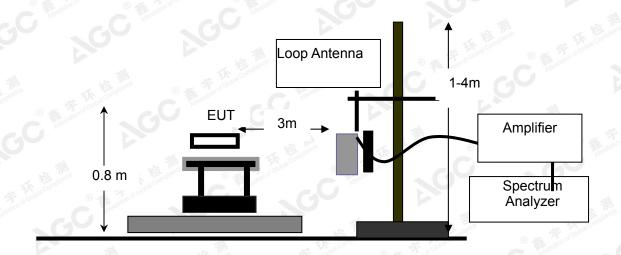
# 5. ETSI EN 303 417 REQUIREMENT

## 5.1 TRANSMITTER H-FIELD REQUIREMENTS

#### **MEASUREMENT EQUIPMENT USED:**

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NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	June. 29, 2017	June. 28, 2018
Amplifier	EM S	EM30180	060552	June. 29, 2017	June. 28, 2018
LOOP ANTENNA	A.H.	SAS-526B	1.G	Mar. 01, 2018	Feb. 28, 2020

#### **TEST SETUP:**



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## **TEST LIMITS:**

The H-field limit in dBµA/m at 3 m, H<sub>3m</sub>, is determined by the following equation:

$$H_{3m} = H_{10m} + C_3 (F.2)$$

Where:  $H_{10m}$  is the H-field limit in  $dB\mu A/m$  at 10 m distance according to the present document; and  $C_3$  is a conversion factor in dB determined from figure F.2.

The limit at 10 m( $H_{10m}$ ) is -5dB $\mu$ A/m.

Owing to the frequency EUT is 156kHz, so the C<sub>3</sub> approach to 31.5dB.

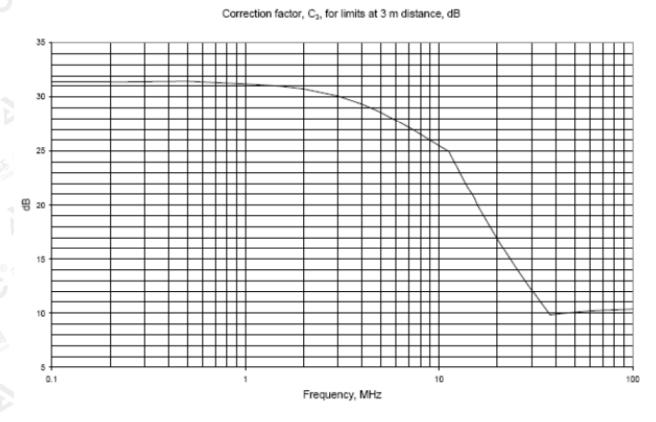


Figure F.2: Conversion factor C<sub>3</sub> versus frequency

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## **TEST PROCEDURE:**

The EUT was placed on the top of an insulating table 0.8 meters above the ground at a semi-anechoic chamber.

The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The H-field is measured with a shielded loop antenna connected to a measurement receiver.

The measuring bandwidth and detector type of the measurement receiver shall be in accordance with EN 300 330 V2.1.1 Table 11.

The EUT operate with modulation under normal and extreme conditions.

## **TEST RESULTS:**

Test Mode: Mode 4(worst case)

## Extreme conditions state

conditions	Test Temp	Test Volt.(V)	Note
TN/VN	25℃	5.0	Worst case
TL/ VL	-10°C	4.5	100
TH/VL	45℃	4.5	ini)
TL/VH	-10℃	5.5	The Marianto
TH/VH	<b>45</b> ℃	5.5	® Francisco (Caballa )

## Test results tested at 3m test sites:

Freq.	Antenna Factor	Reading Level	Corrected Level	Limit	
(MHz)	(dB/m)	(dBuA)	(dBuA/m)	(dBuA/m)	
0.156	23.54	-13.19	10.35	26.5	

#### Test results calculated to 10m test sites:

Freq.	Antenna Factor Reading Level		Corrected Level	Limit	
(MHz)	(dB/m)	(dBuA)	(dBuA/m)	(dBuA/m)	
0.156	23.54	-42.94	-19.4	-5	

## Remark:

- (1) Corrected Level (dBuA/m) = Reading Level + Antenna Factor
- (2) For the calculated method, please refer to Annex F at EN 300330.
- (3) All extreme conditions were considered for test, but only record the worst case

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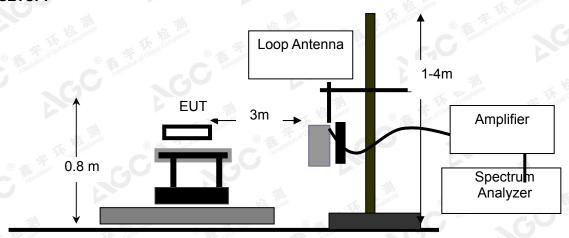
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# **5.2 OPERATING FREQUENCY RANGES**

## **MEASUREMENT EQUIPMENT USED:**

NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	June. 29, 2017	June. 28, 2018
Amplifier	EM	EM30180	060552	June. 29, 2017	June. 28. 2018
LOOP ANTENNA	A.H.	SAS-526B	Of Copper	Mar. 01, 2018	Feb. 28, 2020

#### TEST SETUP:



# **TEST PROCEDURE:**

- 1). The EUT was placed on a turn table which is 0.8m above ground plane.
- 2). The EUT was modulated by normal signal,
- 3).Set SPA Center Frequency = fundamental frequency, RBW=VBW=200Hz, Span=5kHz, Detector=RMS. The 99 % OBW function shall be used to determine the operating frequency range, fH is the frequency of the upper marker resulting from the OFR, fL is the frequency of the lower marker resulting from the OFR.
- 4), Both normal test condition and extreme test condition applied

# LIMITS

The operating frequency range for emissions shall be within one of the following limits: 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz.

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# **TEST RESULT**

Test Mode: Mode 4(worst case)

# Frequency Range Test Result

Test Temperature	Test Voltage (V DC)	Upper Frequency (kHZ)	Lower Frequency (kHZ)	Limit
10 Th	5.0	155.50389	156.50692	100kHz≤&≤300kHz
-10℃	5.5	155.50416	156.50718	100kHz≤&≤300kHz
<b>25</b> ℃	5.0	155.50338	156.50629	100kHz≤&≤300kHz
45°0	4.5	155.50294	156.50122	100kHz≤&≤300kHz
45℃	5.5	155.50691	156.50168	100kHz≤&≤300kHz
Res	ults	)		PASS

NOTE: All the modes had been tested, but only the worst data recorded in the report.

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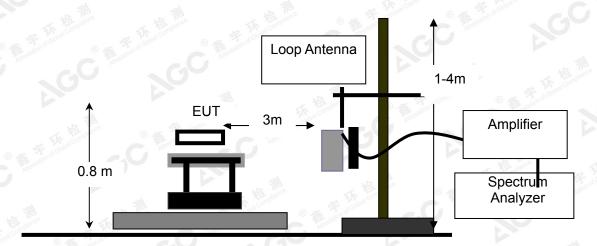
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# 5.3 TRANSMITTER OUT OF BAND (OOB) EMISSIONS

# **MEASUREMENT EQUIPMENT USED:**

NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	June. 29, 2017	June. 28, 2018
Amplifier	EM	EM30180	060552	June. 29, 2017	June. 28, 2018
LOOP ANTENNA	A.H.	SAS-526B	(8)	Mar. 01, 2018	Feb. 28, 2020

#### TEST SETUP:



# **TEST PROCEDURE:**

- 1). The EUT was placed on a turn table which is 0.8m above ground plane.
- 2). The EUT was modulated by normal signal,
- 3).Set SPA Center Frequency = fundamental frequency, RBW=VBW=200Hz, Span=5KHz, Detector=RMS. The 99 % OBW function shall be used to determine the operating frequency range, fH is the frequency of the upper marker resulting from the OFR, fL is the frequency of the lower marker resulting from the OFR.
- 4), Both normal test condition and extreme test condition applied

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# **LIMITS**

The OOB limits are visualized in figures; they are descending from the intentional limits from Table 3 at fH/fL with 10 dB/decade.

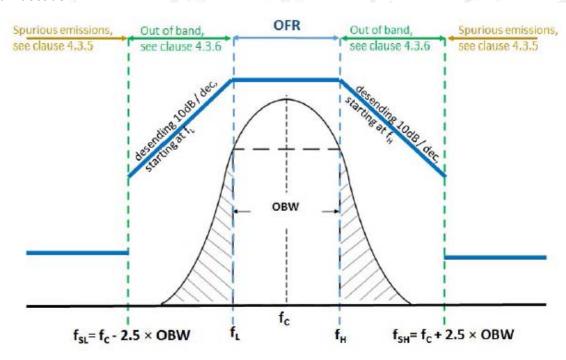


Figure 4: Out of band and spurious domain of a single frequency WPT system

## **TEST RESULT**

Test Mode: Mode 4(worst case)

Freque	ency range (KHz)	Limit(dbuA/m)	Result
fSL -fL	153.5KHz-155.5KHz	See figure 4	Pass
GO fL	155.5KHz	26.5	Pass
fH	156.5KHz	26.5	Pass
fH - fSH	156.5KHz-158.5KHz	See figure 4	Pass

NOTE: All the modes had been tested, but only the worst data recorded in the report.

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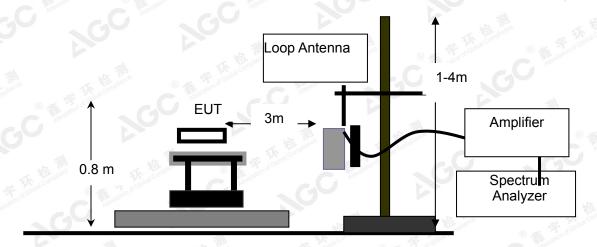
# **5.4 TRANSMITTER SPURIOUS EMISSIONS**

# **MEASUREMENT EQUIPMENT USED:**

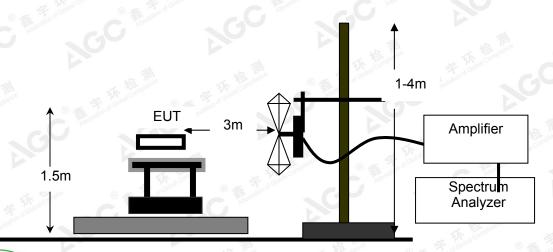
			7 407		
NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	June. 29, 2017	June. 30, 2018
Amplifier	EM	EM30180	060552	June. 29, 2017	June. 30, 2018
LOOP ANTENNA	A.H.	SAS-526B	of Global (S) Allestali	Mar. 01, 2018	Feb. 28, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Mar. 01, 2018	Feb. 28, 2020

# **TEST SETUP:**

FREQUENCY RANGE (9KHZ-30MHZ)



FREQUENCY RANGE (ABOVE 30MHZ)



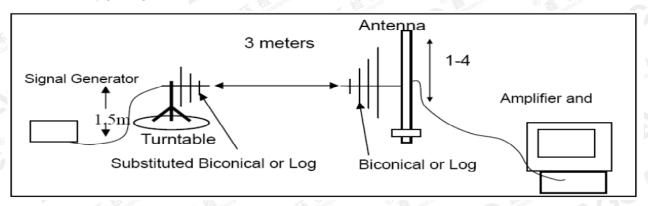
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## SUBSTITUTION METHOD:

#### RADIATED BELOW 1GHZ



#### **TEST PROCEDURE:**

For test method of frequency range (9 kHz-30MHz)

The EUT was placed on the top of an insulating table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The H-field is measured with a shielded loop antenna connected to a measurement receiver.

The measuring bandwidth and detector type of the measurement receiver shall be in accordance with EN 300 330 Table 1.

For test method of frequency range (30 MHz-1000MHz)

EUT was placed on a 1.5m height wooden table. The search antenna is placed at 3m distances from the EUT and search antenna height is from 1-4m. With the transmitter operating at continuously mode, the turntable was slowly rotated to locate the direction of maximum emission. Once maximum direction is determined, the search antenna was raised and lowered in both vertical and horizontal polarizations.

The EUT was removed from the turntable and replaced with a linearly polarized antenna connected to a calibrated RF signal generator. The RF generator was set to a measured emission frequency and the search antenna was raised and lowered to produce a maximum received reading. The generator output was increased to match the radiated emission reading measured previously, and the result expressed in dB EIRP or ERP, correcting for substitution antenna gain at each frequency.

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# **LIMITS OF RADIATED DISTURBANCES**

Below 30MHz

# Table 4

State (see n	ote)	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 mode 1 according to Table 2.					

# Table 5

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

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# **TEST LIMITS & RESULT**

Test Mode: Mode 4(worst case) FREQUENCY RANGE (9KHZ-30MHZ)

OPERATION MODE							
Frequency	Reading level	Total Factor	Emission level	10M Limit	Margin		
(MHz)	(dBµA/m)	(dB)	(dB µA/m)	(dBµA/m)	(dBµA/m)		
The Marie	· - 1	Juliance (8)	© - The state of Global	27 dBµA/m at 9KHz descending 10dB/dec			
Market Chops	® # Jajon of Global C	\C_C_	60-	(9KHz – 10MHz)			
- (3				-3.5 dBµA/m(10MHz –			
		The same of the sa	报 测	30MHz)	CG Alles		

#### Remark:

- (1) Corrected Power (dBm) = Total Factor + Reading Level
- (2) Measuring frequencies from 9KHz to the 30MHz.

Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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# FREQUENCY RANGE (ABOVE 30MHZ)

Transmitter Spurious Emission below 1GHz (30MHz-1GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
81.59	32.94	V	-60.50	0.04	0.06	-60.48	-36.00	24.48
102.38	28.72	Tollance V ®	-66.27	0.04	1.10	-65.21	-54.00	11.21
219.62	26.19	V	-73.63	0.09	7.38	-66.34	-54.00	12.34
367.84	30.28	V	-69.78	0.26	6.66	-63.38	-36.00	27.38
502.71	29.3	V	-71.29	0.42	6.94	-64.77	-54.00	10.77
629.64	31.29	V	-69.28	0.51	7.26	-62.54	-54.00	8.54
® 4	Tof Global	F of Global Co	The station of Global	P.C				•
95.82	32.06	H	-63.29	0.04	1.80	-61.53	-54.00	7.53
128.46	28.72	Н	-63.84	0.05	0.18	-63.71	-36.00	27.71
296.87	29.23	H	-71.37	0.18	6.90	-64.65	-36.00	28.65
352.75	30.27	H = 3M	-67.75	0.25	5.76	-62.24	-36.00	26.24
469.38	29.31	C H	-69.45	0.38	6.79	-63.04	-36.00	27.04
556.32	27.98	Н	-72.56	0.46	6.82	-66.20	-54.00	12.20

Note: 1.The margins of the other spectrum are not exceeding the minimum value of margin, and this part of the results without recording in the test report.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "--" remark, if no specific emission from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

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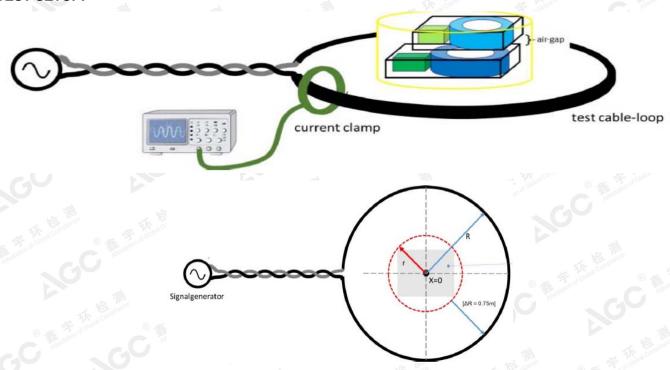
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# 5.5 RECEIVER BLOCKING

## **MEASUREMENT EQUIPMENT USED:**

NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
MXG X-Series Vector Signal Generator	Agilent	N5182B	N/A	Sep. 21, 2017	Sep. 20, 2018
LOOP ANTENNA	LAPLACE	RF300	N/A	Mar. 01, 2018	Feb. 28, 2020
Clamp meter	PROVA	PROVA-11	17200101	Oct. 09, 2017	Oct. 08, 2018

#### **TEST SETUP:**



## **TEST PROCEDURE:**

- 1). The test shall be carried out inside a test chamber according to clauses C.1.1 and C.1.2 in ETSI EN 300 330
- 2). A test loop with a radius r shall be used to create the magnetic field; the test loop shall lie on a non-metallic ground and the minimum distance to metallic objects (e.g. ground plane) shall be 0,75 m. The EUT shall be placed to the centre of the test-loop
- 3). The test loop shall be sufficiently large so that the test loop itself does not influence the WPT system; The radius R of the test-loop shall be in minimum  $\Delta R = 0.75$  m larger than the maximum dimension r of the EUT.

$$R >= r + \Delta R$$
.

The maximum H-Field can be calculated from the loop current I (into the test-loop) with the following formula:

H=I/2R

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4) The required output current to achieve the required magnetic field at the WPT system shall be generated with a signal generator (unmodulated signal) at the test frequencies. For each test frequency the "reaction" of the device shall be recorded and checked against the performance criterion

## **LIMITS**

The EUT shall achieve the wanted performance criterion, in the presence of the blocking signal

Table 6: Receiver blocking limits

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

# **TEST RESULT**

Test Mode: Mode 3

TCSt WOOC. WOOC 5		C St ion	Was tall	
Test Frequency(KHz)		Performance	Result	
In-band signal	156	No function loss	Pass	
OOB signal	155	No function loss	Pass	
OOD signal	157	No function loss	Pass	
Remote-band	146	No function loss	Pass	
signal	166	No function loss	Pass	

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# **6. INTERPRETATION OF MEASUREMENT RESULTS**

All the measurement equipments and accessories have been carefully selected to meet the maximum measurement uncertainty specified below:

RF Frequency	± 1 x 10 <sup>-7</sup>
RF Power, Conducted	± 0.75dB
Maximum Frequency Deviation: _ Within 300Hz and 6KHz of Audio Frequency _ Within 6KHz and 25KHz of Audio Frequency	± 5% ± 3dB
Adjacent channel power	± 3dB
Conducted Emission of Transmitter, Valid Up to 12.75GHz	± 4dB
Conducted Emissions of Receivers	± 3dB
Radiated Emission of Transmitter, Valid Up to 12.75GHz	± 6dB

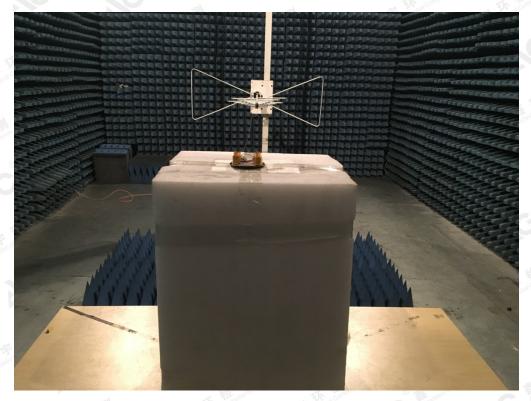
P.S. Uncertainty figures are valid to confidence level of 95% calculated according to the methods described in the ETSI TR 100 028.

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# **APPENDIX 1: PHOTOGRAPHS OF TEST SETUP**



----END OF REPORT----

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