



# RADIO TEST REPORT

ETSI EN 300 220-2 V2.4.1(2012-05)

For

**Applicant :** CNEX AIE SL

**Address :** C/ Mendez Nuñez,49 08302 Mataró - Barcelona - Spain

**Product Name :** Massager

**Model Name :** 33431, 107530, 108216, 108339, 108735, 109336, 107738, 33432,  
306599, 404837, 404936, 405094, 405810, 405933, 0483, 0493, 0509,  
0581, 0593, 0821, 0833, 0873, 0933, 0659, 0773

**Brand Name :** N/A

**Report No. :** MTE/HNZ/A15111560

**Date of Issue :** Nov. 18, 2015

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**1. TEST RESULT CERTIFICATION**

<b>Product Name:</b>	Massager
<b>Brand Name:</b>	N/A
<b>Model Name:</b>	33431
<b>Series Model Name:</b>	107530, 108216, 108339, 108735, 109336, 107738, 33432, 306599, 404837, 404936, 405094, 405810, 405933, 0483, 0493, 0509, 0581, 0593, 0821, 0833, 0873, 0933, 0659, 0773
<b>Series Model Difference description:</b>	Only difference in the model name.
<b>Applicant:</b>	CNEX AIE SL
<b>Applicant Address:</b>	C/ Mendez Nuñez,49 08302 Mataró - Barcelona - Spain
<b>Manufacturer:</b>	CNEX AIE SL
<b>Manufacturer Address:</b>	C/ Mendez Nuñez,49 08302 Mataró - Barcelona - Spain
<b>Test Standards:</b>	ETSI EN 300 220-1 V2.4.1 (2012-05) ETSI EN 300 220-2 V2.4.1 (2012-05)
<b>Test Result:</b>	PASS

We, MOST, hereby certify that the submitted samples of the above item, as detailed in chapter 2.1 of this report, has been tested in our facility. The test record, data evaluation and test configuration represented herein are true and accurate accounts of measurements of the sample's EMC characteristics under the conditions herein specified.

Prepared by (+ signature):

  
 Helen Zhu

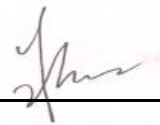
Nov. 06-18, 2015

Review by (+ signature):

  
 Henry Chen

  
 Nov. 18, 2015

Approved by (+ signature):

  
 Yvette Zhou (Manager)

Nov. 18, 2015

## 2. EUT DESCRIPTION

<b>Product Name:</b>	Massager
<b>Brand Name:</b>	N/A
<b>Model Number:</b>	33431
<b>Series Model Name:</b>	107530, 108216, 108339, 108735, 109336, 107738, 33432, 306599, 404837, 404936, 405094, 405810, 405933, 0483, 0493, 0509, 0581, 0593, 0821, 0833, 0873, 0933, 0659, 0773
<b>Series Model Difference description:</b>	Only difference in the model name.
<b>Power Supply:</b>	Transmitter: DC 3V Receiver: DC 3V
<b>Frequency Range:</b>	433.92MHz
<b>Modulation Technique:</b>	FSK
<b>Temperature Range:</b>	-10°C ~ +40°C

**Remark:**

1. For a more detailed description, refer to the user's manual of the EUT.

### 3. TEST METHODOLOGY

#### 3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT has been tested according to ETSI EN 300220-2 V2.4.1 (2012-05) together with ETSI EN300 220-1 V2.4.1 (2012-05).

ETSI EN 300220-1 V2.4.1 (2012-05)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Device (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical Characteristics and test methods
ETSI EN 300220-2 V2.4.1 (2012-05)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

#### 3.2 DESCRIPTION OF TEST MODES

The EUT has been tested under normal operating and standby condition. Control the EUT for staying in continuous transmitting and receiving mode for testing.

The field strength of spurious radiation emission was measured in the following position: EUT lie-down position (Z axis), stand-up position (X, Y axis). The following data show only with the worst case setup.

The worst case of Z axis without cradle was reported.

#### 3.3 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

#### 3.4 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

- Uncertainty of Conducted Emission,  $U_c = \pm 1.8\text{dB}$
- Uncertainty of Radiated Emission,  $U_c = \pm 3.2\text{dB}$

## 4. SETUP OF EQUIPMENT UNDER TEST

### 4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

**Remark:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

### 4.2 LIST OF EQUIPMENTS USED

No.	Equipment	Manufacturer	Model No.	S/N	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2015/03/10
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/03/07
4	Terminator	Hubersuhner	50Ω	No.1	2015/03/07
5	RF Cable	SchwarzBeck	N/A	No.1	2015/03/07
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2015/03/10
7	Bilog Antenna	Sunol	JB3	A121206	2015/03/14
8	Cable	Resenberger	N/A	NO.1	2015/03/07
9	Cable	SchwarzBeck	N/A	NO.2	2015/03/07
10	Cable	SchwarzBeck	N/A	NO.3	2015/03/07
11	DC Power Filter	DuoJi	DL2×30B	N/A	2015/03/07
12	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2015/03/07
13	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2015/03/07
14	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10
15	Absorbing Clamp	Luthi	MDS21	3635	2015/03/12
16	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/03/07
17	AC Power Source	Kikusui	AC40MA	LM003232	2015/03/10
18	Test Analyzer	Kikusui	KHA1000	LM003720	2015/03/10
19	Line Impedance Network	Kikusui	LIN40MA-PCR-I	LM002352	2015/03/10
20	ESD Tester	Kikusui	KES4021	LM003537	2015/03/07
21	EMC PRO System	EM Test	UCS-500-M4	V0648102026	2015/03/10
22	Signal Generator	IFR	2032	203002/100	2015/03/10
23	Amplifier	A&R	150W1000	301584	2015/03/14
24	CDN	FCC	FCC-801-M2-25	47	2015/03/10
25	CDN	FCC	FCC-801-M3-25	107	2015/03/10
26	EM Injection Clamp	FCC	F-203I-23mm	403	2015/03/10

27	RF Cable	MIYAZAKI	N/A	No.1/No.2	2015/03/07
28	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2015/03/10
29	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2015/03/10
30	Spectrum Analyzer	Agilent	E4408	MY41440460	2015/03/10
31	Horn Antenna	SCHWARZBECK	BBHA9120D	D69250	2015/03/10

**NOTE:**Equipments listed above have been calibrated and are in the period of validation.

## 5. ETSI EN 300 220-1/-2 REQUIREMENTS

### 5.1 FREQUENCY ERROR

#### LIMIT

ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.1.3

The frequency error and drift shall not exceed the values given in table 4a for system with channel spacing of less or equal to 25kHz, or table 4b for all other systems, under normal and extreme conditions.

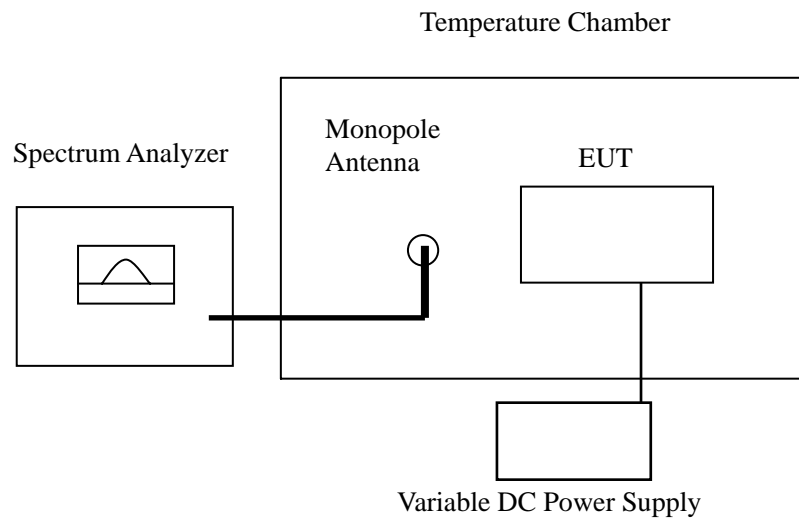
**Table 4a: Frequency error or system with channel spacings of less than or equal to 25kHz**

Channelization	Frequency error limit(KHz)				
	<47MHz	47MHz to 137MHz	>137MHz to 300MHz	>300MHz to 500MHz	>500MHz to 1000MHz
Channelized systems	± 10.0	± 10.0	± 10.0	± 12.0	± 12.5

**Table 4b: Frequency error for all other systems**

Frequency error limit (ppm)
± 100

#### Test Configuration



#### TEST PROCEDURE

1. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 5.1 for the test conditions.
2. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.1.2 for the measurement method.



**TEST RESULTS**

433.92MHz

Temperature	Test Voltage(Vdc)	Frequency(MHz)	Error(KHz)	Limit(KHz)
-10°C	3.00V	433.9166	-3.4	+/-12.0
	2.70V	433.9176	-2.4	
	3.00V	433.9174	-2.6	
25°C	3.00V	433.9183	-1.7	
	2.70V	433.9173	-2.7	
	3.00V	433.9176	-2.4	
40°C	3.00V	433.9174	-2.6	
	2.70V	433.9183	-1.7	
	3.00V	433.9164	-3.6	

## 5.2 EFFECTIVE RADIATED POWER

### LIMIT

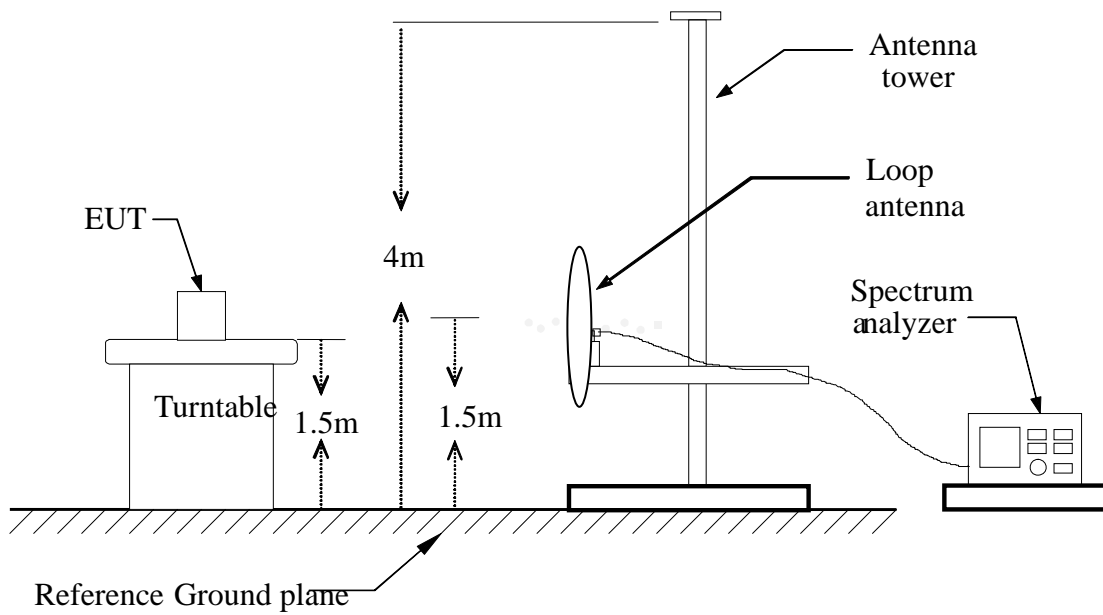
#### ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.3.3

The effective radiated power shall not exceed the power class value given in table5:

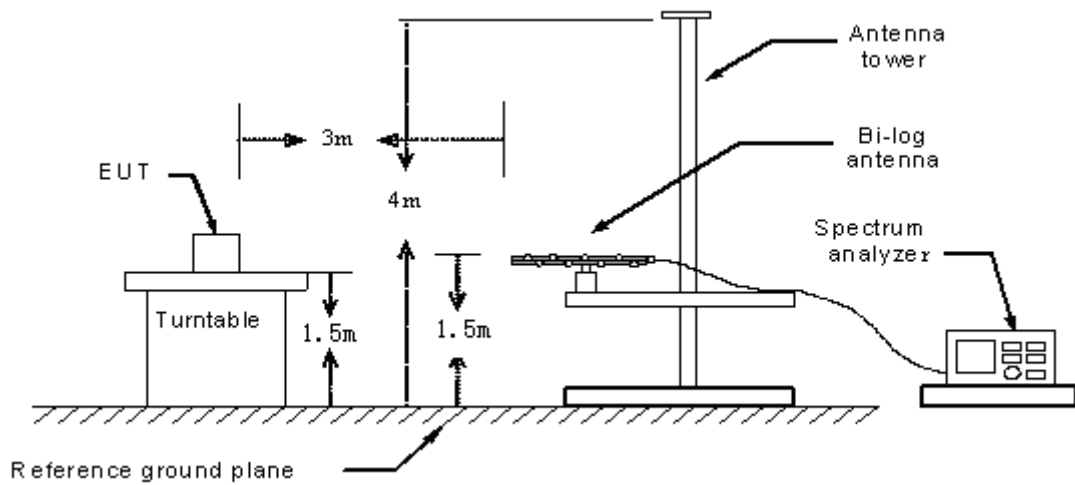
Table 5: Radiated power limit,e.r.p

Power class	Power level(mW)
5a	0.025
7a	5
8	10
9	25
11	100
12	500

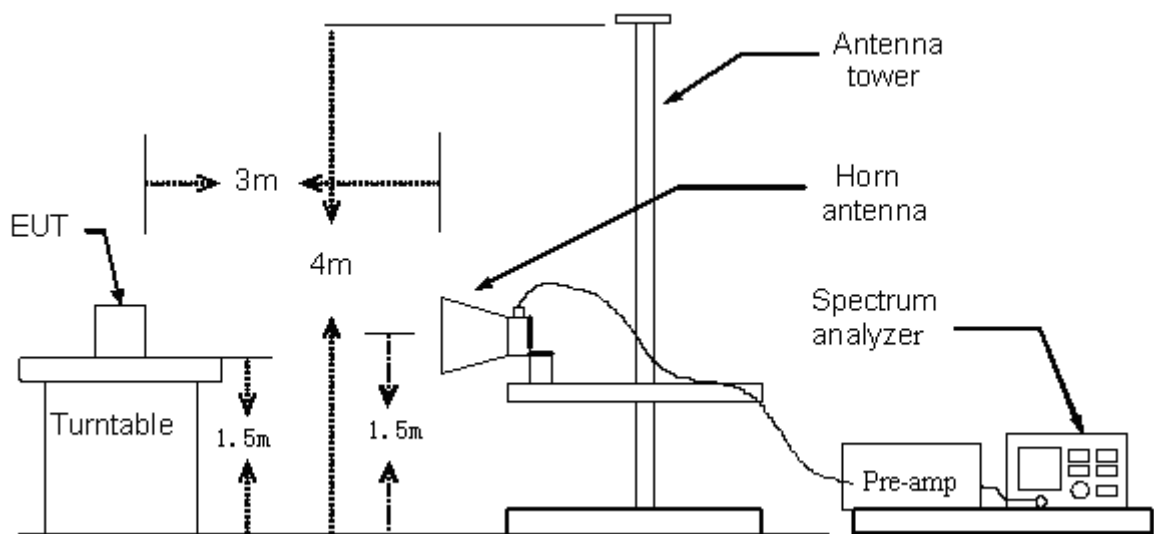
### Below 30MHz



## Below 1GHz



## Above 1GHz



## TEST PROCEDURE

1. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 5.1 for the test conditions.
2. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.3.2 for the measurement method.

## TEST RESULTS

**Operation Mode:** TX Mode                      **Test Date:** Nov. 18, 2015  
**Temperature:** 25°C                              **Tested by:** John  
**Humidity:** 68 % RH                              **Polarity:** Ver. / Hor.

433.920MHz

Freq. (MHz)	Antenna Polarity	Reading (dBm)	Correct Factor(dB)	Power (dBm)	Limit (dBm)
433.920	H	34.20	32.02	2.18	10
433.920	V	33.66	32.02	1.64	

## **5.3 TRANSIENT POWER**

### **LIMIT**

#### **ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.5.3.**

The transient power in the alternate channel shall not exceed a value of 40dB below the power of the Transmitter without the need to be below 2 $\mu$ w(-27dBm).

For measurements at 4 and 10 times the channel spacing the transient power shall not exceed 50dB below power of the transmitter without the need to be below 250nW(-36dBm).

If the limits is exceeded the measurement in clause 7.5.2 shall be repeated with the attenuator value reduced by 6dB to determine if transient effect is causing errors.

### **TEST PROCEDURE**

1. Please refer to ETSI EN 300 220-1 (V2.4.1) Sub-clause 5.1 for the test conditions.
2. Please refer to ETSI EN 300 220-1 (V2.4.1) Sub-clause 7.5.2 for the measurement method.

### **TEST RESULTS**

*NOT APPLICABLE.*

*(The EUT is not designed for cyclic keying during data transmission; the test of Transient Power is not applicable to test.)*

## 5.4 ADJACENT CHANNEL POWER

### LIMIT

#### ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.6.3

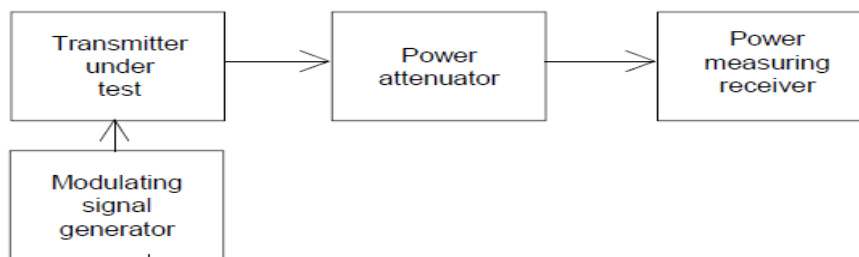
The power in the adjacent channel shall not exceed the maximum values given in table 9:

**Table 9: Adjacent channel power limits applicable to narrowband systems**

	Channel separation <20kHz	Channel separation ≥20kHz
Normal test condition	10μW	200nW
Extreme test condition	32μW	640nW

NOTE: These limits also apply to spread spectrum equipment

### Test Configuration



### TEST PROCEDURE

1. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 5.1 for the test conditions.
2. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.6.2 for the measurement method.

### TEST RESULTS

433.92MHz

Test Condition		channel	Measurement Offset	Reading ( dBm )	limit	
Temperature ( °C )	Voltage ( V )				(dBm)	uW
-10°C	DC 3.00V	Adjacent	+8.25KHz	-30.15	-15	32
			-8.25KHz	-30.28	-15	32
25°C	DC 3.00V	Adjacent	+8.25KHz	-33.37	-20	10
			-8.25KHz	-33.14	-20	10
40°C	DC 3.00V	Adjacent	+8.25KHz	-31.26	-15	32
			-8.25KHz	-31.47	-15	32
Result		Pass				

## 5.5 MODULATION BANDWIDTH

### LIMIT

#### ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.7.3

The permitted range of modulation bandwidth in the frequency error or drift as measured in clause 7.1 or the occupied bandwidth plus the frequency error whichever is the greatest shall be within the limits of the assigned wide-band channel, subband or frequency band, as appropriate, For further information, see CEPT/ERC/Recommendation 70-03[2] or CEPT Decisions as implemented through National Radio Interfaces (NRI) and additional NRI as relevant.

The occupied bandwidth is such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to 0.5% of the total mean power of a given emission, Where an assigned frequency band has been subdivided into channels with bandwidths greater than 200KHz, the 250nW limit shall apply to the adjacent channel, Where the band is divided into subbands the 250nW limit shall apply to the subband edge frequencies.

This limit also applies to spread spectrum equipment.

**Table 10: Emission Limits of the modulated signal**

Reference Bandwidth (RBW)	Limit	Lower envelope point minimum frequency	Upper envelope point maximum frequency
1 kHz	1 uW	$f_{e, lower}$	$f_{e, upper}$
1 kHz	250 nW	$(f_{e, lower} - 200 \text{ kHz})$	$(f_{e, upper} + 200 \text{ kHz})$
10 kHz	250 nW	$(f_{e, lower} - 400 \text{ kHz})$	$(f_{e, upper} + 400 \text{ kHz})$
100 kHz	250 nW	$(f_{e, lower} - 1000 \text{ kHz})$	$(f_{e, upper} + 1000 \text{ kHz})$

The modulation bandwidth  $f_b - f_a$  shall not exceed the bandwidth specified in table 5. If no bandwidth is specified the modulation bandwidth shall not exceed the Channel Spacing specified in table 5.

### TEST PROCEDURE

1. Please refer to ETSI EN 300 220-1 (V2.4.1) Sub-clause 5.1 for the test conditions.
2. Please refer to ETSI EN 300 220-1 (V2.4.1) Sub-clause 7.7.2 for the measurement method.

### TEST RESULTS

*NOT APPLICABLE*

## 5.6 SPURIOUS EMISSIONS

### LIMIT

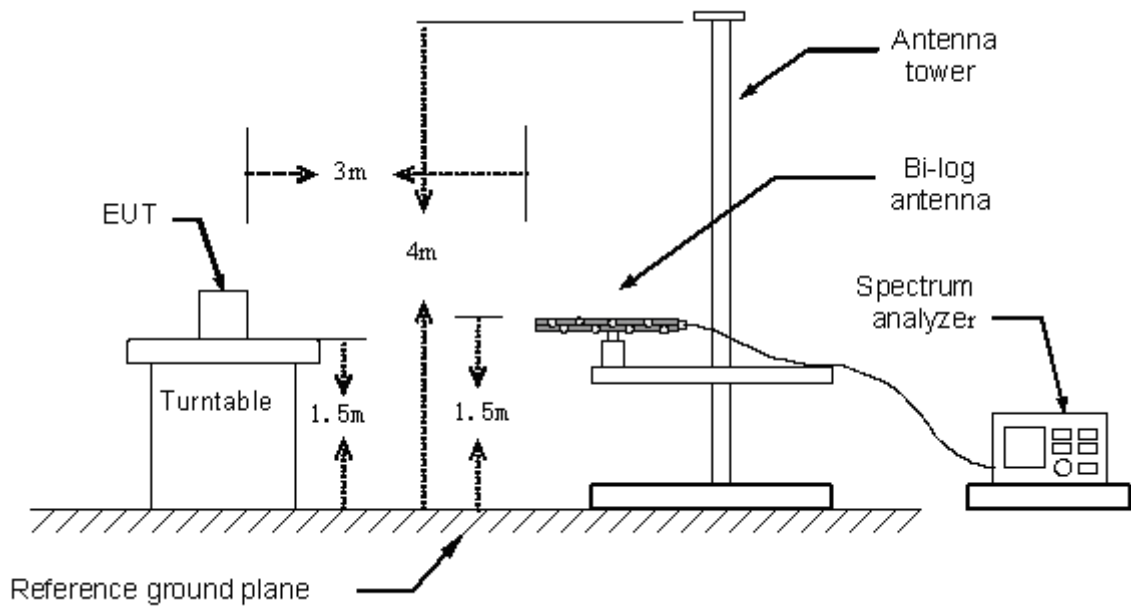
#### ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.8.3

The power of any spurious emission, conducted or radiated, shall not exceed the following values given in table 12:

State	47MHz-74MHz 87.5MHz-118 MHz 174 MHz -230 MHz 470 MHz -862 MHz	Other frequencies below 1000MHz	Frequencies above 1000MHz
Operating	4nW	250nW	1 $\mu$ W
Standby	2nW	2nW	20nW

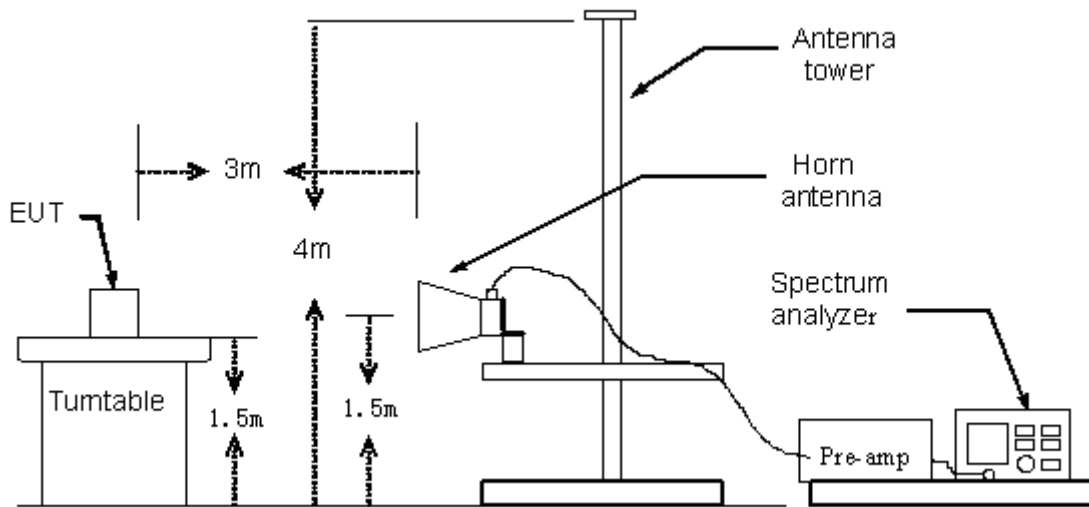
### Test Configuration

#### Below 1GHz





## Above 1GHz



### TEST PROCEDURE

1. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 5.1 for the test conditions.
2. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.8.2 for the measurement method.

### TEST RESULTS

#### **PASS**

Remark : All test modes are performed, only the worst case is recorded in this report.

Please refer the following pages.

**TEST RESULTS****No non-compliance noted****Below 1GHz**

Frequency(MHz)	Antenna Polarization	Emission level(dBm )	Correct Factor(dB )	Measurement(dBm )	Limit(dBm )	Margin(dB )
869.13	V	-77.16	27.00	-50.16	-36	-14.16
Other<1000	V	/	/	/	/	>20
869.13	H	-74.47	27.00	-47.47	-36	-11.47
Other<1000	H	/	/	/	/	>20

**Above 1GHz**

Frequency(MHz)	Antenna Polarization	Emission level(dBm )	Correct Factor(dB )	Measurement(dBm )	Limit(dBm )	Margin(dB )
1000<Other<6000	V	/	/	/	/	>20
1000<Other<6000	H	/	/	/	/	>20

## 5.7 FREQUENCY STABILITY UNDER LOW-VOLTAGE CONDITION

### LIMIT

#### ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.9.3

The equipment shall either:

- a) remain on channel, for channelized equipment within the limits stated in clause 7.1.3 , or within the assigned operating frequency band, for non-channelized equipment, whilst the radiated or conducted power is greater than the spurious emission limits; or
- b) the equipment cease to function below the providers declared operating voltage.

### TEST PROCEDURE

1. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 5.1 for the test conditions.
2. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.9.2 for the measurement method.

### TEST RESULTS

No non-compliance noted

Voltage Supply		Measurement Frequency	Frequency Error	Limit (KHz)
(Vdc)		(MHz)	(KHz)	
Normal Voltage	DC 3.00V	433.9186	-1.4	+/-12.0KHz  (According to the criteria b of clause 7.9.3 Limits)
Lowest Voltage	DC 2.95V	433.9184	-1.6	
	DC 2.90V	433.9183	-1.7	
	DC 2.85V	433.9175	-2.5	
	DC 2.80V	433.9174	-2.6	
Note:	When the voltage was below 3.0v DC, the EUT ceased to function.			

## 5.8 DUTY CYCLE

### LIMIT

#### ETSI EN 300 220-1 (V.2.4.1) Sub-clause 7.10.3

In a period of 1 hour the duty cycle shall not exceed the class values given in table 13

Table 13:Duty cycle class

Duty cycle class	Duty cycle ratio
1	<0.1%
2	<1.0%
3	<10%
4	Up to 100%

### TEST PROCEDURE

Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 5.1 for the test conditions.

### TEST RESULTS

The duty cycle of a period of 1 hour is < 10%

## 5.9 RECEIVER SPURIOUS EMISSIONS

### LIMIT

#### **ETSI EN 300 220-1 (V.2.4.1) Sub-clause 8.6.5**

The power of any spurious emission, radiated or conducted, shall not exceed the values given below.

The limits are applicable to all receiver categories:

<b>Below 1000 MHz</b>	<b>Above 1000 MHz</b>
2nW	20nW

*Remark: The limits are applicable to all receiver classes.*

### MEASUREMENT EQUIPMENT USED

*(Same as <Effective Radiated Power>)*

### Test Configuration

*(Same as <Effective Radiated Power>)*

### TEST PROCEDURE

1. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 5.1 for the test conditions.
2. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 9.7.2 / 9.7.3 / 9.7.4 for the measurement method.

**TEST RESULTS**

NO.	Frequency	Measurement Bandwidth	Level	Limit	Margin
	MHz	KHz	ERP	dBm	dB
Standby Mode, Antenna Polarization: Vertical					
1	25-1000	100	\	-57	>10
2	1000-4000	100	\	-47	>10
Standby Mode, Antenna Polarization: Horizontal					
1	25-1000	100	\	-57	>10
2	1000-4000	100	\	-47	>10

**Notes:**

- 1.Data of measurement within this frequency range shown “\” in the table above means the reading of Emissions are attenuated more than 10dB below the permissible limits or the field strength is too small to be measured.

## 5.10 BLOCKING

### LIMIT

#### ETSI EN 300 220-1 (V.2.4.1)Sub-clause8.4.3

The blocking level shall not be less than the values given in table 15, except at frequencies on which spurious responses are found.

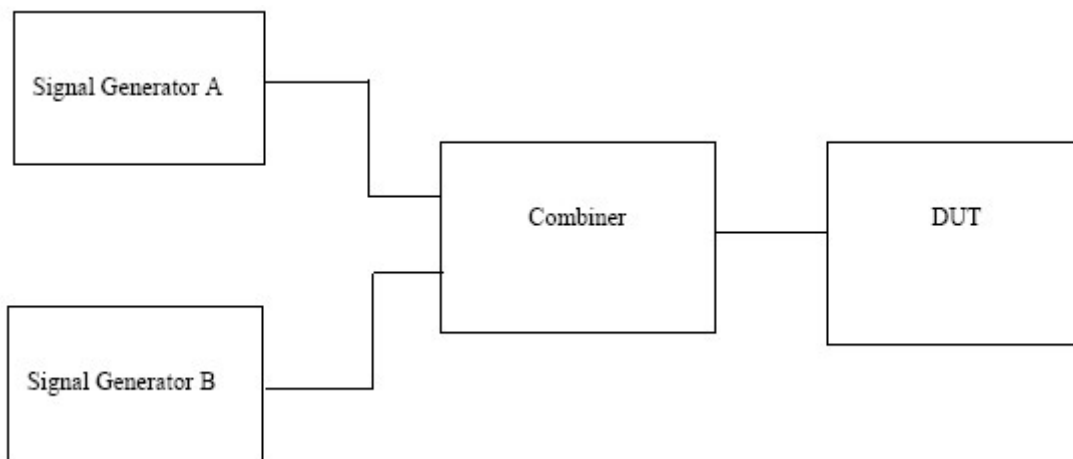
Table 15: Limits for receiver blocking

Receiver category	Frequency offset	Limit
1	±2 MHz	≥84 dB -A (note 2)
2	±2 MHz	≥35 dB -A (note 2)
3	±2 MHz	≥24 dB -A (note 2)
1	±10 MHz	≥84 dB -A (note 2)
2	±10 MHz	≥60 dB -A (note 2)
3	±10 MHz	≥44 dB -A (note 2)

NOTE 1: The limits apply also for the repeated tests in case of equipment using LBT or category 1 receivers, reduced by 13 dB or 40 dB, respectively, to account for the increased wanted signal level.

NOTE 2:  $A = 10 \log (BW_{\text{kHz}} / 16 \text{ kHz})$  BW is the receiver bandwidth (see clause 8.1.4).

### Test Configuration



### TEST PROCEDURE

1. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 5.1 for the test conditions.
2. Please refer to ETSI EN 300 220-1 (V.2.4.1) Sub-clause 8.4.2 for the measurement method.

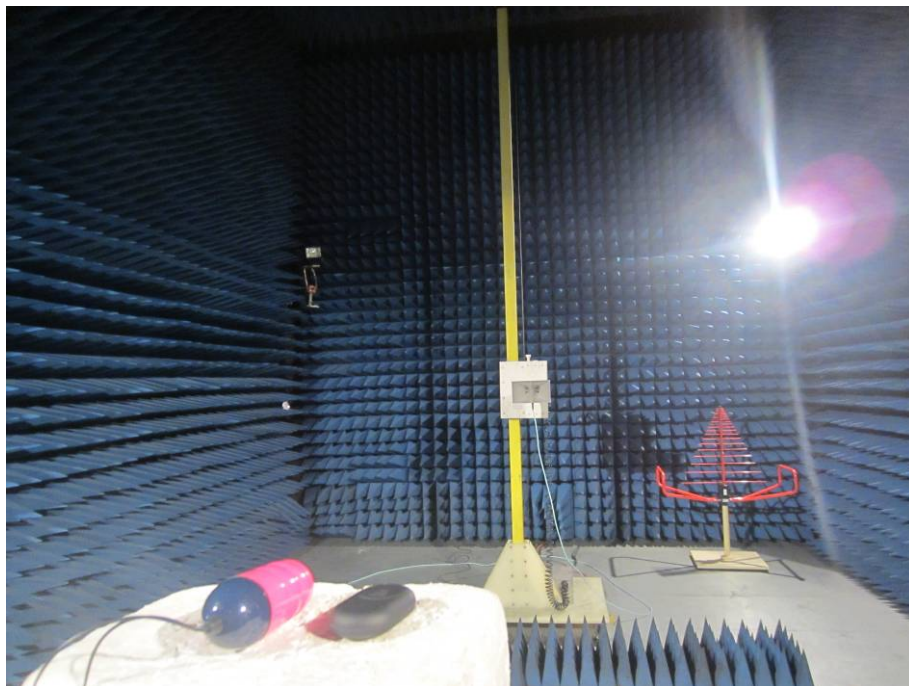
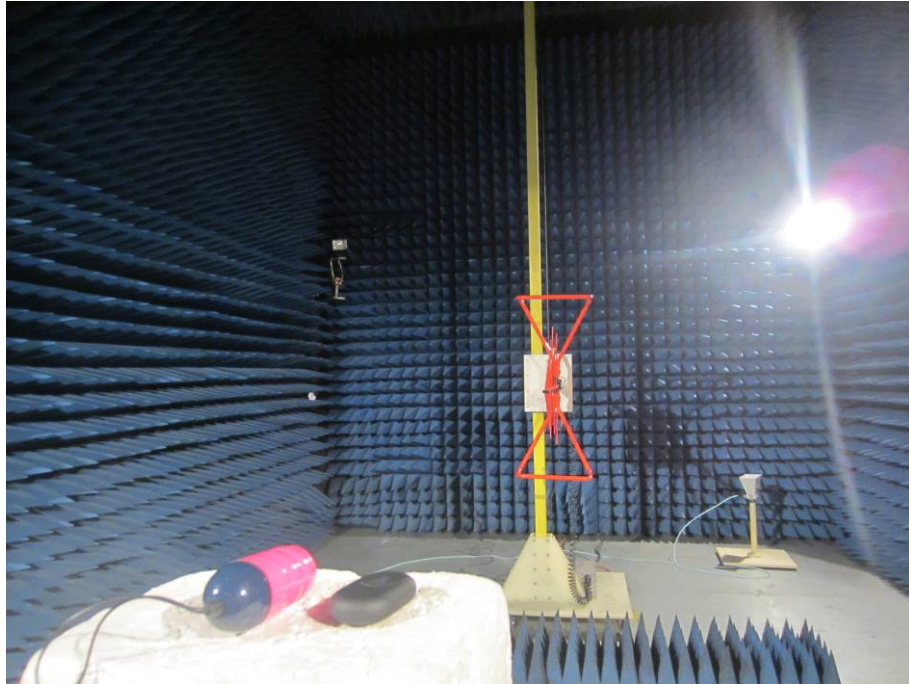
### TEST RESULTS

Channel	Frequency offset (MHz)	Test result (dB)	Limit(dB)	Result
433.92MHz	-2	31.16	22.04	PASS
	+2	31.56	22.04	PASS
	-10	58.23	42.04	PASS
	+10	58.18	42.04	PASS

**APPENDIX 1**  
**PHOTOGRAPHS OF TEST SETUP**



RADIATED EMISSION TEST SETUP



---END OF REPORT---