

# RF Test Report

Report No.: AGC00552181201EE09

**PRODUCT DESIGNATION** : Smart Phone  
**BRAND NAME** : CUBOT  
**MODEL NAME** : QUEST  
**APPLICANT** : Shenzhen Huafurui Technology Co., Ltd.  
**DATE OF ISSUE** : Jan. 04, 2019  
**STANDARD(S)** : ETSI EN 300 330 V2.1.1: 2017-02  
**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	/	Jan. 04, 2019	Valid	Initial release

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## TABLE OF CONTENTS

<b>1. TEST RESULT CERTIFICATION.....</b>	<b>4</b>
<b>2. EUT DESCRIPTION.....</b>	<b>4</b>
<b>3. DESCRIPTION OF TEST MODES.....</b>	<b>5</b>
<b>4. TEST FACILITY .....</b>	<b>5</b>
<b>5. ETSI EN 300 330 REQUIREMENT TO TRANSMITTER .....</b>	<b>6</b>
5.1 ETSI EN 300 330 SUBCLASSES 4.3.4 H-FIELD (RADIATED).....	6
5.2 ETSI EN 300 330 SUBCLASSES 4.3.2&4.3.3: .....	9
5.3 ETSI EN 300 330 SUBCLASSES 4.3.8&4.3.9: SPURIOUS DOMAIN EMISSION.....	11
5.4 ETSI EN 300 330 SUBCLASSES 4.4.2: RECEIVER SPURIOUS RADIATION .....	17
<b>6. ETSI EN 300 330 V2.1.1: Interpretation of Measurement Results.....</b>	<b>20</b>
<b>APPENDIX 1 PHOTOGRAPHS OF TEST SETUP.....</b>	<b>21</b>

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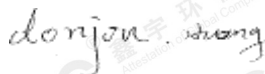
## 1. TEST RESULT CERTIFICATION

<b>Applicant</b>	Shenzhen Huafurui Technology Co., Ltd.
<b>Address</b>	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
<b>Manufacturer</b>	Shenzhen Huafurui Technology Co., Ltd.
<b>Address</b>	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
<b>Factory Name</b>	Shenzhen Huafurui Technology Co., Ltd.
<b>Address</b>	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
<b>Product Designation</b>	Smart Phone
<b>Brand Name</b>	CUBOT
<b>Test Model</b>	QUEST
<b>Date of test</b>	Dec. 12, 2018 to Jan. 03, 2019
<b>Condition of Test Sample</b>	Normal

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 300 330 V2.1.1. 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.

The test results of this report relate only to the tested sample identified in this report.

Tested By



Donjon Huang(Huang Dongyang)

Jan. 03, 2019

Reviewed By



Bart Xie(Xie Xiaobin)

Jan. 04, 2019

Approved By



 Forrest Lei(Lei Yonggang)  
 Authorized Officer

Jan. 04, 2019

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## 2. EUT DESCRIPTION

Details of technical specification for NFC refer to the description in follows:

<b>Product Designation:</b>	Smart Phone
<b>Brand Name:</b>	CUBOT
<b>Test Model:</b>	QUEST
<b>Hardware Version:</b>	A799_MAIN_PCB_V1.1
<b>Software Version:</b>	CUBOT_CUBOT_QUEST_8123C_V01_20181122
<b>Operation Frequency:</b>	13.56MHz
<b>Range of operating frequencies</b>	13.556-13.567MHz
<b>Number of Channels:</b>	1 Channel
<b>Antenna Type:</b>	PIFA antenna
<b>Power Supply:</b>	DC 3.85V by battery
<b>Receiver category</b>	3
<b>Product Class:</b>	1

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

## 3. DESCRIPTION OF TEST MODES

The EUT has been tested under Normal Operation and standby condition.

## 4. TEST FACILITY

<b>Test Site-1</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

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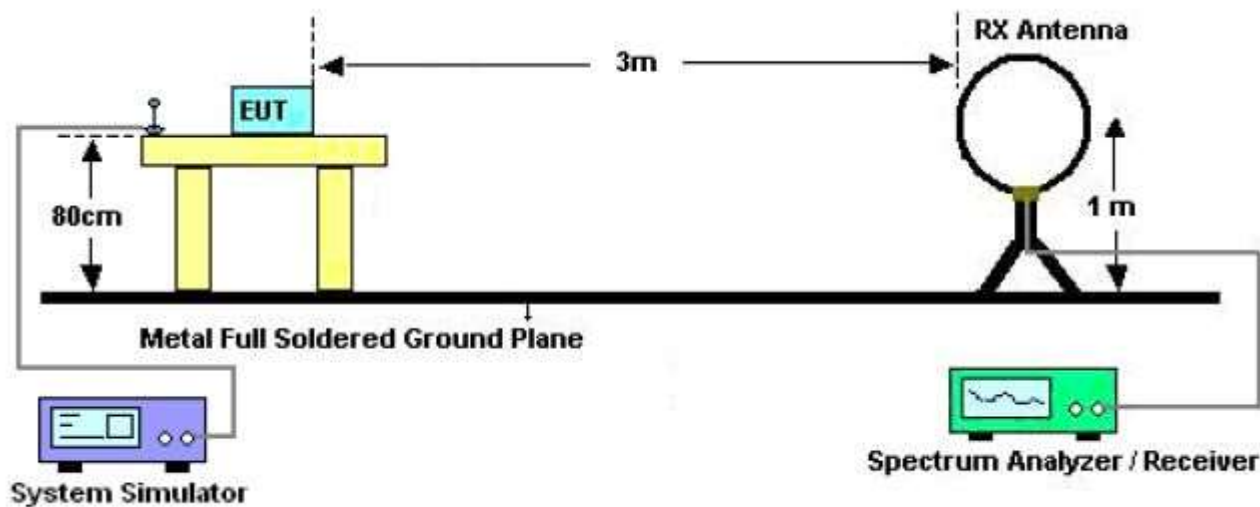
## 5. ETSI EN 300 330 REQUIREMENT TO TRANSMITTER

### 5.1 ETSI EN 300 330 Subclasses 4.3.4 H-field (radiated)

#### MEASUREMENT EQUIPMENT USED:

NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESCI	100694	June 27, 2018	June 26, 2019
Amplifier	Schwarzbeck	BBV 9718	9718-205	June 27, 2018	June 26, 2019
WIDEBAND REQUENCY ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Mar. 01, 2018	Feb. 28, 2019
WIDEBAND REQUENCY ANTENNA	SCHWARZBECK	VULB9168	VULB9168- D69250	Mar. 01, 2018	Feb. 28, 2019
LOOP ANTENNA	A.H	SAS-562B	/	Mar.01, 2018	Feb.28, 2020

#### TEST SETUP:



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# TEST LIMITS:

The H-field limit in dBμA/m at 3 m,  $H_{3m}$ , is determined by the following equation:

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

Where:  $H_{10m}$  is the H-field limit in dBμA/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 60 dBμA/m.

For 13.56MHz:

Owing to the frequency EUT is 13.56MHz, so the  $C_3$  approach to 23dB.

Then the limit at 3m ( $H_{3m}$ ) =  $H_{10m} + C_3 = 60 + 23 = 83$  dBμA/m.

The H Field Strength shall not exceed the values 83 dBuA/m 3m Distance under normal test conditions.

Correction factor,  $C_3$ , for limits at 3 m distance, dB

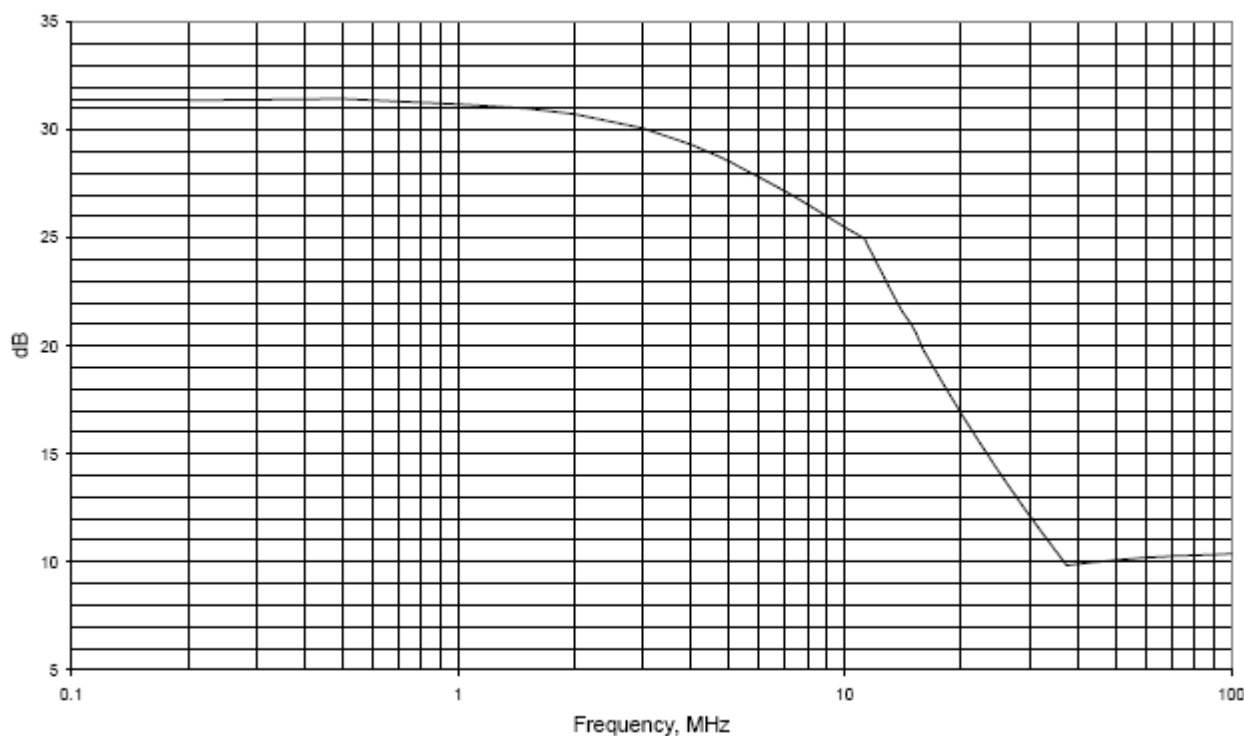


Figure F.2: Conversion factor  $C_3$  versus frequency

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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 clause 5.12.

The EUT operate with modulation under normal and extreme conditions.

### TEST RESULTS:

Test Mode: Transmitting

Extreme conditions state

conditions	Test Temp	Test Volt.(V)	Note
TN/VN	25°C	3.85	Worst case
TL/ VL	-20°C	3.45	
TH/ML	55°C	3.45	
TL/VH	-20°C	4.40	
TH/VH	55°C	4.40	

Test results tested at 3m test sites:

Freq.	Antenna Factor	Reading Level	Corrected Level	Limit
(MHz)	(dBuA/m)	(dBuA/m)	(dBuA/m)	(dBuA/m)
13.56	11.83	35.63	47.46	83

Test results calculated to 10m test sites:

Freq.	Antenna Factor	Reading Level	Corrected Level	Limit
(MHz)	(dBuA/m)	(dBuA/m)	(dBuA/m)	(dBuA/m)
13.56	11.83	12.63	24.46	60

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.  
 $EIRP(dBm) = E(dBuV/m) + 20 \lg(D) - 104.8$ , D is the measurement distance.
- (4)  $E(dBuV/m) = dBuA/m + 51.5$ , so the  $dBuA/m = EIRP(dBm) + 43.7$ ,  $EIRP = 10 \lg P(mW)$

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**.2 ETSI EN 300 330 Subclasses 4.3.2&4.3.3:  
PERMITTED FREQUENCY RANGE AND THE MODULATION BANDWIDTH**

**MEASUREMENT EQUIPMENT USED:**

NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESCI	100694	Mar. 01, 2018	Feb. 28, 2019
Amplifier	Schwarzbeck	BBV 9718	9718-205	June 27, 2018	June 26, 2019
WIDEBAND FREQUENCY ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Mar. 01, 2018	Feb. 28, 2019
LOOP ANTENNA	A.H	SAS-562B	/	Mar. 01, 2018	Feb. 28, 2019

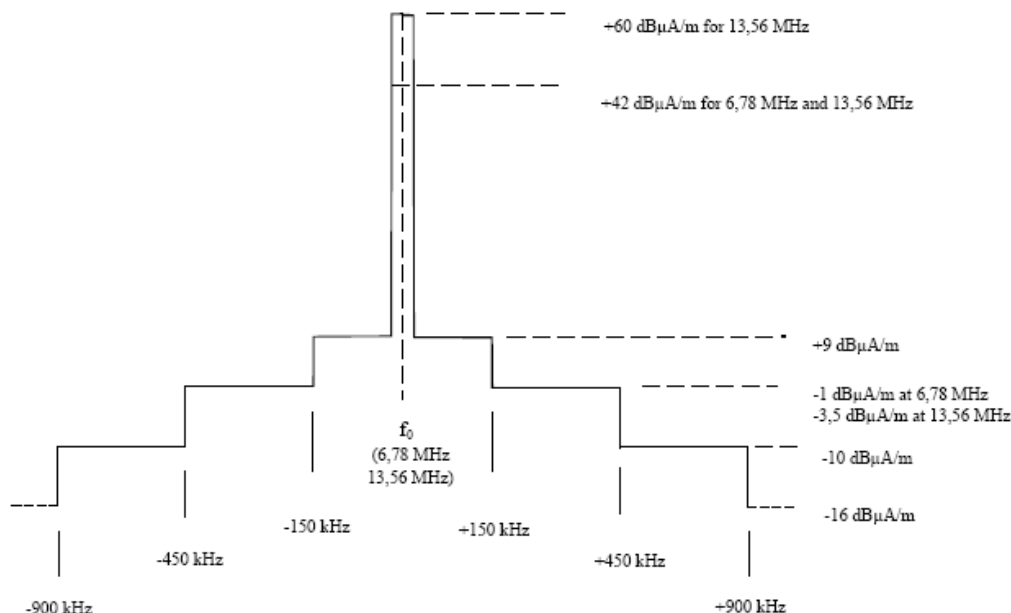
**TEST SETUP:**

SAME AS SUBCLASSES 5.1

**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=300Hz, Span=2MHz.
- 4). Both normal test condition and extreme test condition applied

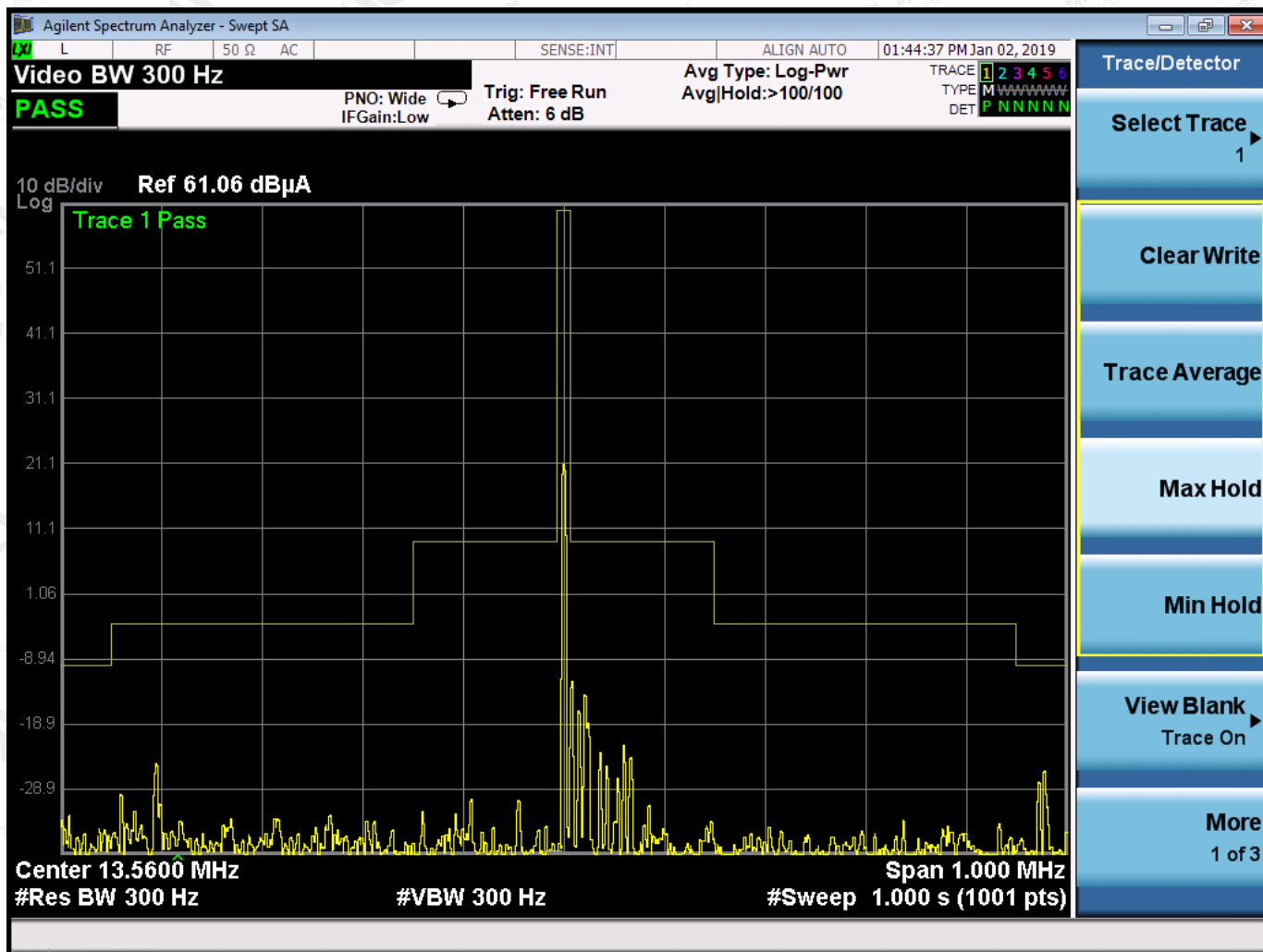
**LIMITS**



**TEST RESULT**

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# TEST PLOT



Frequency Range Test Result

Test Temperature	Test Voltage (V DC)	Lower Frequency (MHZ)	Upper Frequency (MHZ)	Limit
-20℃	3.45	13.558	13.559	13.553MHz≤&≤13.567MHZ
	4.40	13.559	13.560	13.553MHz≤&≤13.567MHZ
25℃	3.85	13.562	13.563	13.553MHz≤&≤13.567MHZ
55℃	3.45	13.560	13.565	13.553MHz≤&≤13.567MHZ
	4.40	13.561	13.566	13.553MHz≤&≤13.567MHZ
Results		PASS		

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

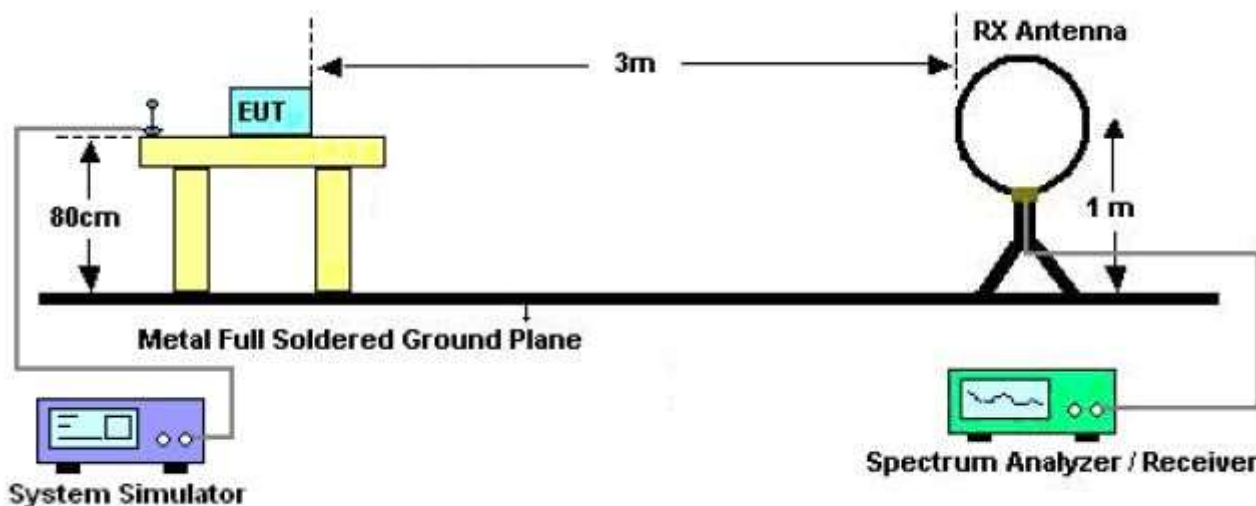
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### 5.3 ETSI EN 300 330 Subclasses 4.3.8&4.3.9: Spurious domain emission MEASUREMENT EQUIPMENT USED:

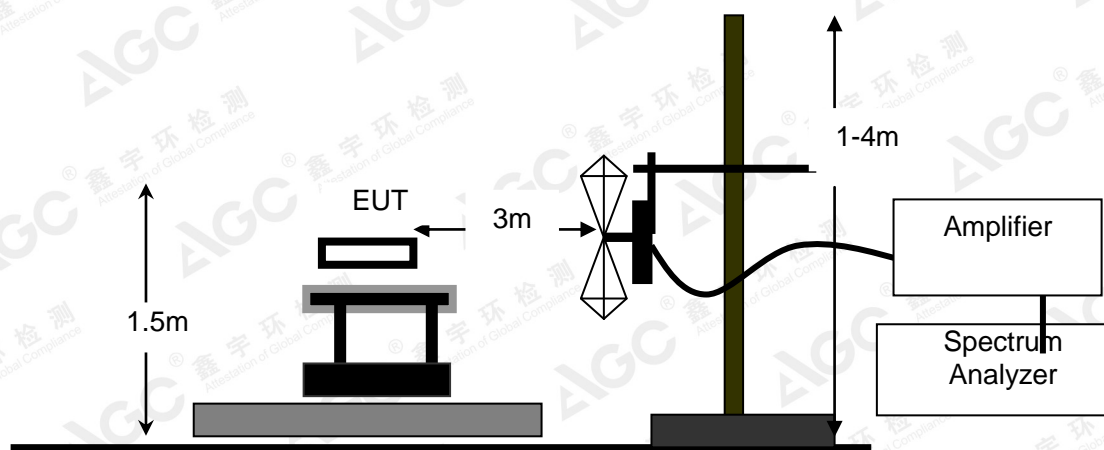
Same as 5.1

#### TEST SETUP:

FREQUENCY RANGE (9KHZ-30MHZ)



FREQUENCY RANGE (ABOVE 30MHZ)

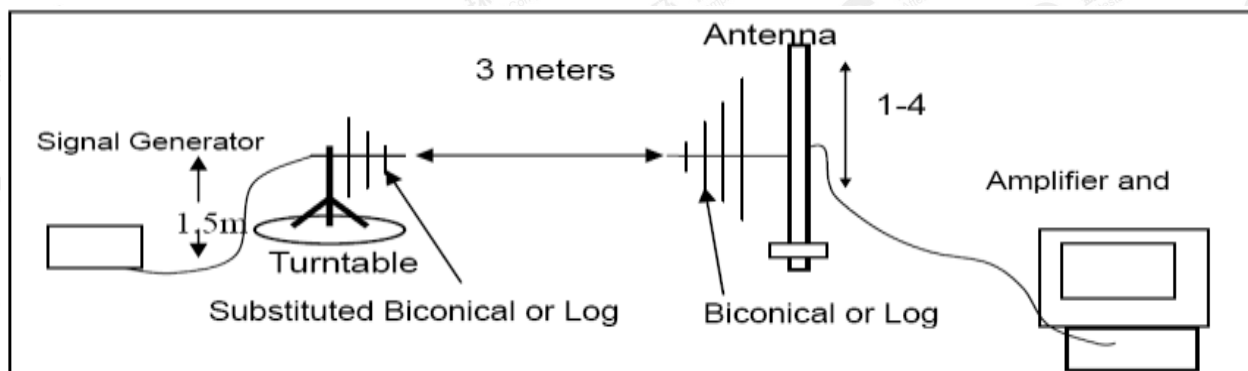


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## SUBSTITUTION METHOD:

### 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 V2.1.1 clause 5.12

The EUT operate with modulation under normal and extreme conditions.

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.

## LIMITS OF RADIATED DISTURBANCES

Below 30MHz

Operating		
Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBμA/m Q.P.)
9 kHz ≤ f < 10 MHz	10	27dB μ A/m at 9 kHz descending 3 dB/oct
10 MHz ≤ f < 30 MHz	10	-3,5 dB μ A/m

Standby		
Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBμA/m Q.P.)
9 kHz ≤ f < 10 MHz	10	5,5 dB μ A/m at 9 kHz descending 3 dB/oct
10 MHz ≤ f < 30 MHz	10	-25 dB μ A/m

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**TEST LIMITS & RESULT**
**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)
--	--	--	--	27 dBμA/m at 9KHz descending 3dB/oct(9KHz – 10MHz)	--
--	--	--	--		--
--	--	--	--	-3.5 dBμA/m(10MHz – 30MHz)	--
--	--	--	--		--

STANDBY MODE					
Frequency	Reading level	Total Factor	Emission level	10M Limit	Margin
(MHz)	(dBμA/m)	(dB )	(dB μA/m)	(dBμA/m)	(dBμA/m)
--	--	--	--	5.5 dBμA/m at 9KHz descending 3dB/oct (9KHz – 10MHz)	--
--	--	--	--		--
--	--	--	--	-25 dBμA/m (10MHz – 30MHz)	--
--	--	--	--		--

**Remark:**

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

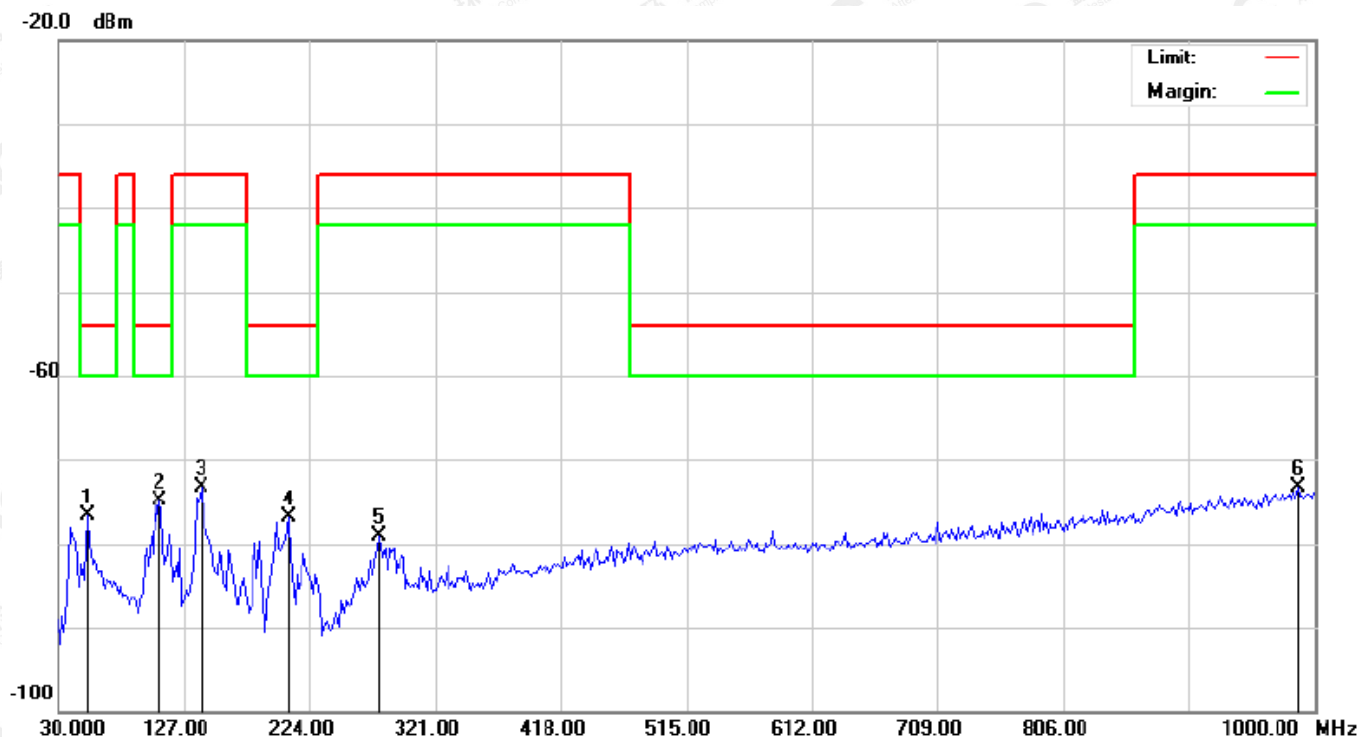
- (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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**FREQUENCY RANGE (ABOVE 30MHZ)**

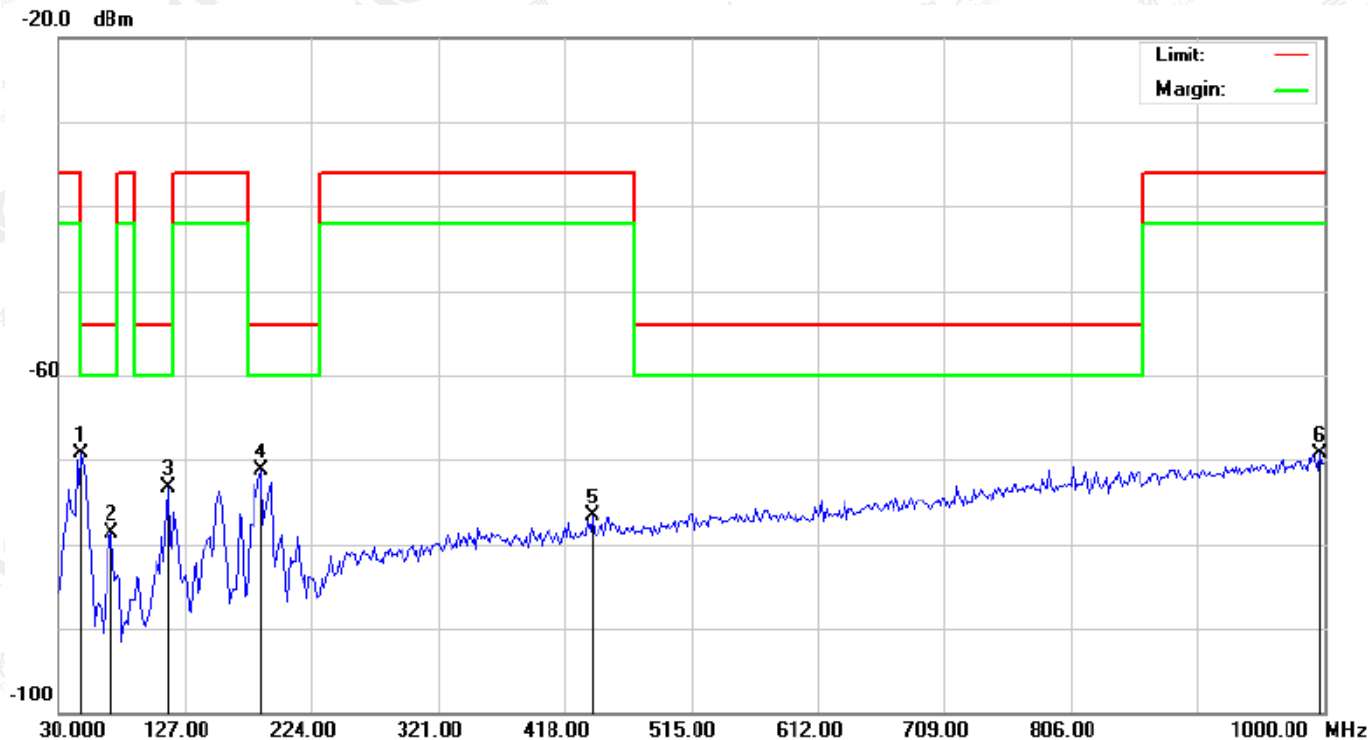
**EUT OPERATION MODE – HORIZONTAL**



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1		52.6332	-85.19	8.41	-76.78	-54.00	-22.78	peak			
2	*	107.5999	-83.60	8.72	-74.88	-54.00	-20.88	peak			
3		139.9333	-88.44	15.17	-73.27	-36.00	-37.27	peak			
4		207.8333	-88.18	11.20	-76.98	-54.00	-22.98	peak			
5		277.3500	-90.74	11.55	-79.19	-36.00	-43.19	peak			
6		987.0666	-103.02	29.64	-73.38	-36.00	-37.38	peak			

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EUT OPERATION MODE – VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1	*	47.7832	-77.78	8.39	-69.39	-54.00	-15.39	peak			
2		70.4167	-82.83	4.16	-78.67	-54.00	-24.67	peak			
3		114.0666	-77.20	3.91	-73.29	-54.00	-19.29	peak			
4		185.1999	-84.11	12.75	-71.36	-54.00	-17.36	peak			
5		439.0167	-96.96	20.26	-76.70	-36.00	-40.70	peak			
6		996.7667	-98.94	29.55	-69.39	-36.00	-33.39	peak			

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**5.4 ETSI EN 300 330 Subclasses 4.4.2: Receiver spurious radiation**  
**MEASUREMENT EQUIPMENT USED:**

Same as 5.1

**TEST SETUP:**

Same as 5.3

**TEST RESULT AND LIMIT**
**BELOW 30MHZ**

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBμA/m Q.P.)
9 kHz ≤ f < 10 MHz	10	5.5dB μ A/m at 9 kHz descending 3 dB/oct
10 MHz ≤ f < 30 MHz	10	-25 dB μ A/m

RECEIVER MODE					
Frequency (MHz)	Reading level (dBμA/m)	Total Factor (dB)	Emission level (dBμA/m)	10M Limit (dBμA/m)	Margin (dBμA/m)
--	--	--	--	5.5 dBuA/m at 9KHz descending 3dB/oct (9KHz – 10MHz)	--
--	--	--	--	-25 dBuA/m (10MHz – 30MHz)	--
--	--	--	--		
--	--	--	--		

**Remark:**

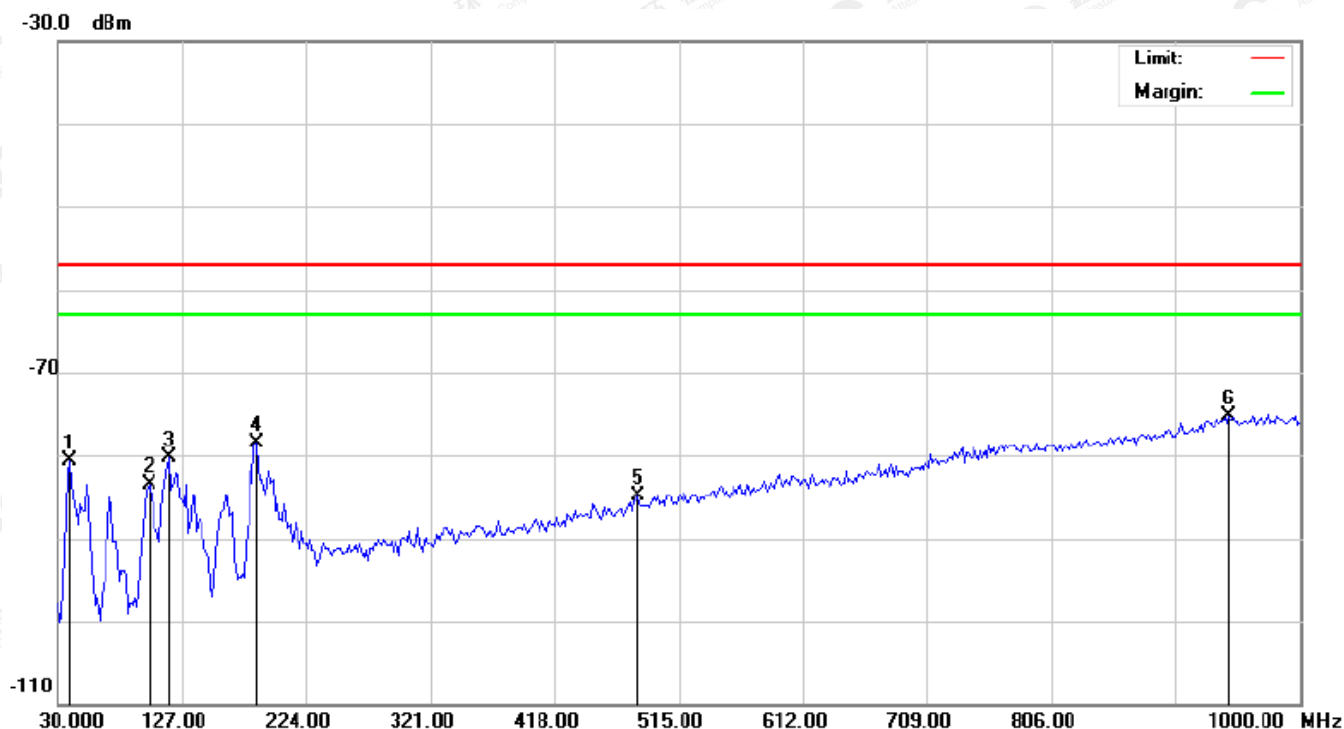
- Corrected Power (dBm) = Total Factor + Reading Level
- Measuring frequencies from 9KHz to the 30MHz.
- Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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ABOVE 30MHZ

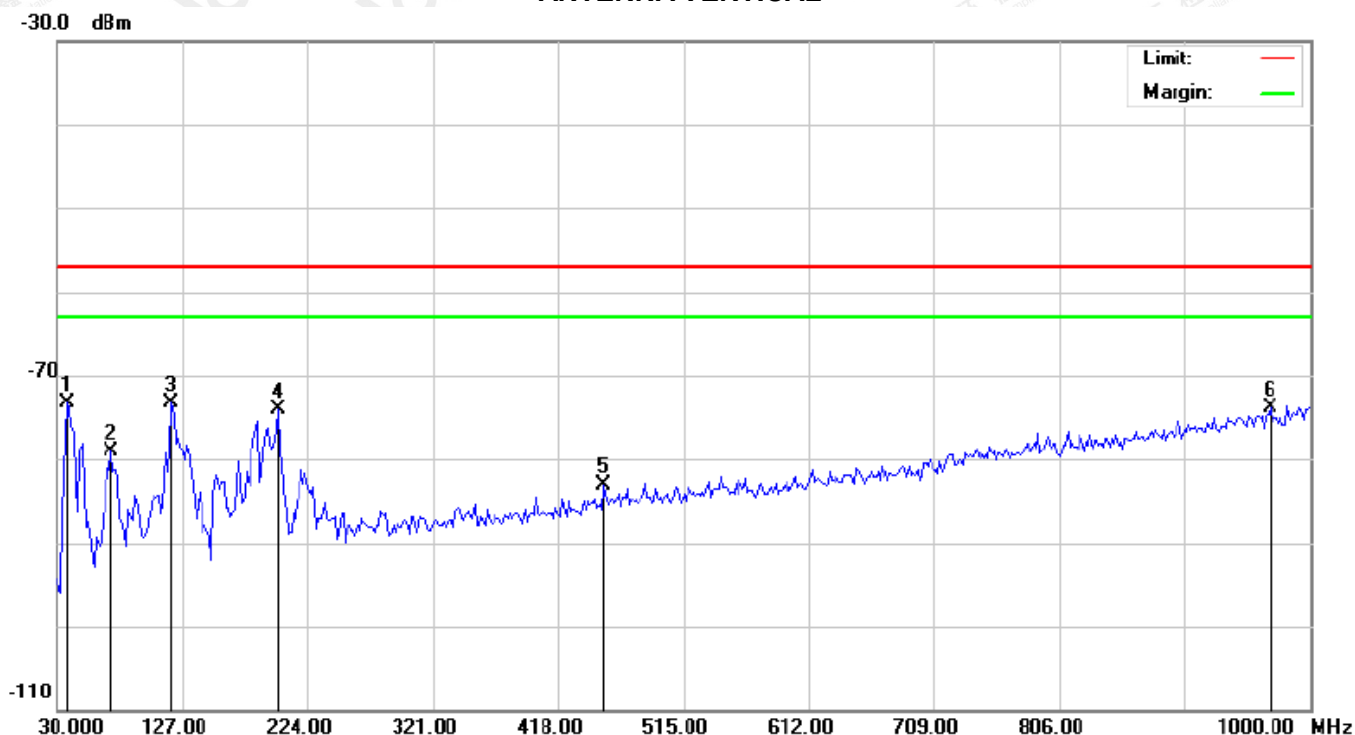
ANTENNA HORIZONTAL



No.	Mk	Freq. MHz	Reading dBm	Factor dBm	Measurement dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		39.7000	-92.24	11.51	-80.73	-57.00	-23.73	peak			
2		101.1333	-93.78	10.22	-83.56	-57.00	-26.56	peak			
3		117.2999	-86.86	6.48	-80.38	-57.00	-23.38	peak			
4		185.1999	-89.86	11.31	-78.55	-57.00	-21.55	peak			
5		482.6666	-105.84	20.94	-84.90	-57.00	-27.90	peak			
6	*	945.0333	-105.25	29.86	-75.39	-57.00	-18.39	peak			

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# ANTENNA VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dBm	dBm	dBm	dB		cm	degree	
1		38.0833	-79.63	6.39	-73.24	-57.00	-16.24	peak			
2		72.0332	-82.79	3.76	-79.03	-57.00	-22.03	peak			
3	*	118.9167	-79.55	6.32	-73.23	-57.00	-16.23	peak			
4		201.3667	-83.23	9.13	-74.10	-57.00	-17.10	peak			
5		453.5667	-103.71	20.63	-83.08	-57.00	-26.08	peak			
6		969.2833	-103.71	29.81	-73.90	-57.00	-16.90	peak			

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## 6. ETSI EN 300 330 V2.1.1: Interpretation of Measurement Results

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

RF Frequency	$\pm 1 \times 10^{-7}$
RF Power, Conducted	$\pm 0.75\text{dB}$
Maximum Frequency Deviation: _ Within 300Hz and 6KHz of Audio Frequency _ Within 6KHz and 25KHz of Audio Frequency	$\pm 5\%$ $\pm 3\text{dB}$
Adjacent channel power	$\pm 3\text{dB}$
Conducted Emission of Transmitter, Valid Up to 12.75GHz	$\pm 4\text{dB}$
Conducted Emissions of Receivers	$\pm 3\text{dB}$
Radiated Emission of Transmitter, Valid Up to 12.75GHz	$\pm 6\text{dB}$
Radiated Emissions of Receivers	$\pm 6\text{dB}$

P.S. Uncertainty figures are valid to confidence level of 95% calculated according to the methods described in the ETR 028[3].

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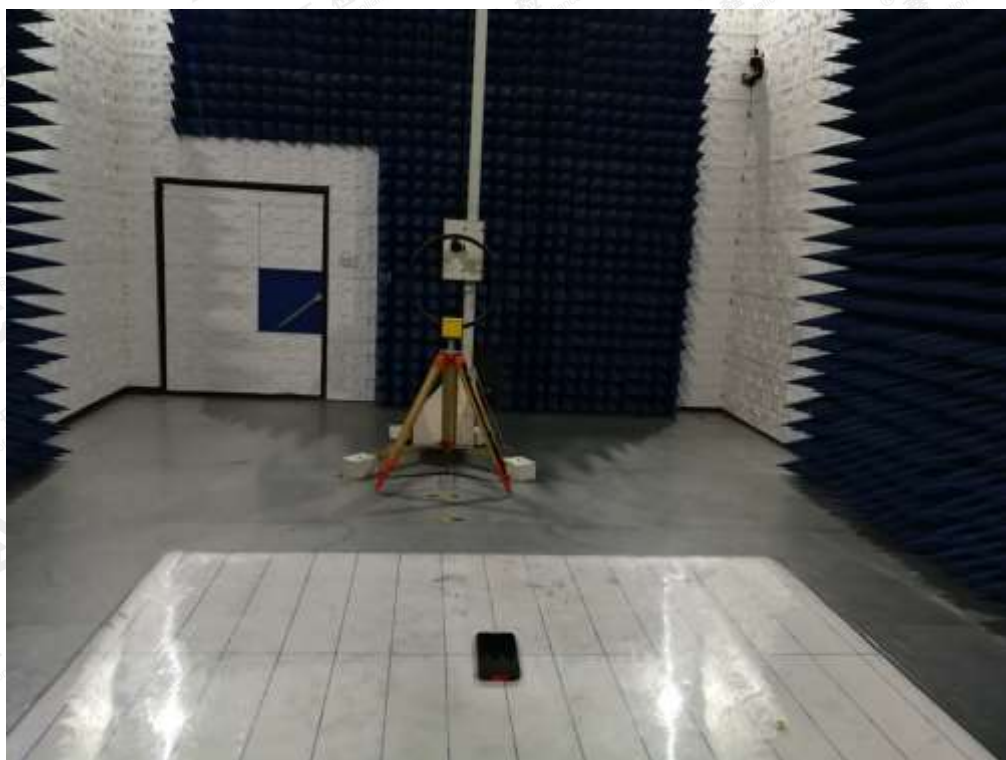
## 7. TEST RESULT FOR RFID

Input Voltage	Input Current	Input Power
3.85V	1.073mA	4.13mW

The input power delivered to the NFC circuit is below 20mW, it cannot transmit more than 20mW of RF power.

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**APPENDIX 1 PHOTOGRAPHS OF TEST SETUP**  
**RADIATED EMISSION TEST**



**SAMPLE LABEL**



**----END OF REPORT----**

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