RADIO TEST REPORT
ETSI EN 303 417 V1.1.1 (2017-09)

Product :	Mobile Phone
Trade Mark :	Blackview
Model Name :	BV6300Pro
Family Model :	N/A
Report No. :	STR200604001013E

Prepared for

DOKE COMMUNICATION (HK) LIMITED

RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	:	DOKE COMMUNICATION (HK) LIMITED
Address	:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK
Manufacturer's Name	:	Shenzhen DOKE Electronic Co.,Ltd
Address	:	8th floor, building 3, hanhaida science and technology innovation park, yulv village, guangming new district, shenzhen city, guangdong province

Product description

Product name	:	Mobile Phone
Trademark	:	Blackview
Model and/or type reference	:	BV6300Pro
Family Model	:	N/A
Standards	:	ETSI EN 303 417 V1.1.1 (2017-09)

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the of article 3.1(b) of the Directive 2014/53/EU requirements. And it is applicable only to the tested sample identified in the report.
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Date of Test

Date (s) of performance of tests ..... 04 Jun. 2020 ~ 06 Jul. 2020

Date of Issue..... 07 Jul. 2020

Test Result..... **Pass**

Testing Engineer : Allen Liu
(Allen Liu)

Technical Manager : Jason Chen
(Jason Chen)

Authorized Signatory : Sam Chen
(Sam Chen)

Shenzhen NTEK Testing Technology Co.,Ltd. NTEK Report Seal

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1. Summary of test results

The EUT has been tested according to the following specifications:

EN 303 417 V1.1.1		
Clause	Test Item	Results
TRANSMITTER PARAMETERS		
4.3.2	Permitted range of operating frequencies	Pass
4.3.3	Operating frequency range(s) (OFR)	Pass
4.3.4	H-field requirements	Pass
4.3.5	Transmitter spurious emissions	Pass
4.3.6	Transmitter out of band (OOB) emissions	Pass
RECEIVER PARAMETERS		
4.4.2	Receiver blocking	Pass

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 Facilities and accreditations

1.1.1 Facilities

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China

1.1.2 Laboratory accreditations and listings

Site Description

CNAS-Lab.	:	The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516.
IC-Registration		The Certificate Registration Number is 9270A-1.
FCC- Accredited		Test Firm Registration Number: 463705. Designation Number: CN1184
A2LA-Lab.		The Certificate Registration Number is 4298.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	:	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

1.2 Maximum measurement uncertainty

Maximum measurement uncertainty

RF Frequency	± 1 x 10^{-7}
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
Radiated Emissions of Receivers	± 6dB

Revision History

Report No.	Version	Description	Issued Date
STR200604001013E	Rev.01	Initial issue of report	07 Jul. 2020

2. General information

2.1 General description of eut

Equipment	Mobile Phone
Trade Mark	Blackview
Model Name.	BV6300Pro
Family Model	N/A
Model Difference	N/A
Product Description	The EUT is Mobile Phone Operation Frequency: 111kHz~175kHz WPT frequency range 4 Antenna Designation: Induction coil
Power Rating	DC 3.85V from battery or DC 3.85V from Adapter
Adapter	Model:HJ-FC017K7-EU Input: 100-240V~50/60Hz 0.6A Output: 5V/7V/9V⎓2A/12V⎓1.5A
Battery	DC 3.85V, 4380mAh, 16.863Wh
I/O Ports	Refer to users manual
Hardware Version	TE988_MAIN_PCB_V1.1
Software Version	TE988_DK_DK018_71_Q0_V1.9.6.1_20200624

NOTE:

1. All the tests were performed at 3m test sites.
2. For more information, please refer to User's Manual.

2.2 Test conditions

	Normal Test Conditions	Extreme Test Conditions
Temperature	15°C - 35°C	-10°C ~ 40°C Note: (1)
Relative Humidity	20% - 75%	N/A
Supply Voltage	DC 3.85V	DC 3.4V – DC 4.4V Note: (2)

Note:

(1) The EUT belongs to Category II (Portable) devices.
For tests at extreme temperatures, measurements shall be made at the upper and lower temperatures of one of the following ranges:
• Category I (General): -20 °C to +40 °C.
• Category II (Portable): -10 °C to +40 °C.
• Category III (Equipment for normal indoor use): 0 °C to +35 °C.
NOTE: The term "Equipment for normal indoor use" is taken to mean the minimum indoor temperature ≥ 5 ℃ .
For special applications, the manufacturer can specify wider temperature ranges than given as a minimum above. This shall be reflected in manufacturer's product literature.

(2) The extreme test voltages for equipment to be connected to an ac mains source shall be the nominal mains voltage ±10 %.

(3) The measurements are performed at the highest, middle, lowest available channels.

2.3 Description of test modes

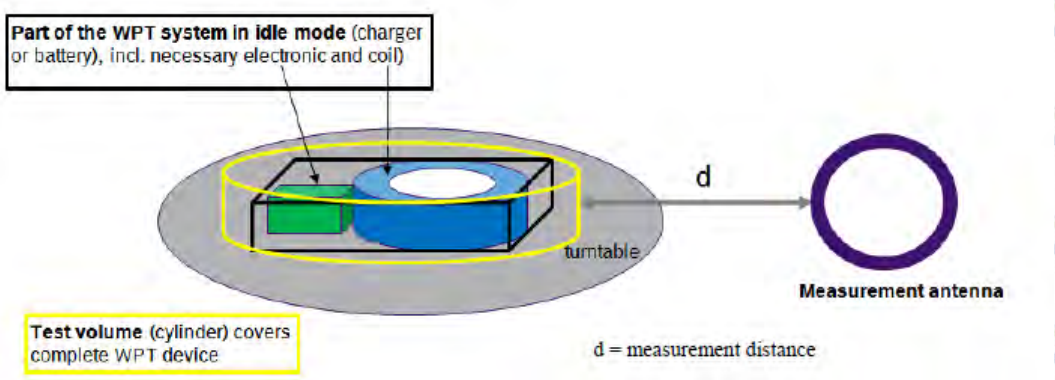
To investigate the maximum emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.
The manufacturer shall declare for each possible operation mode of the WPT system (overview see Table 2):

Table 2

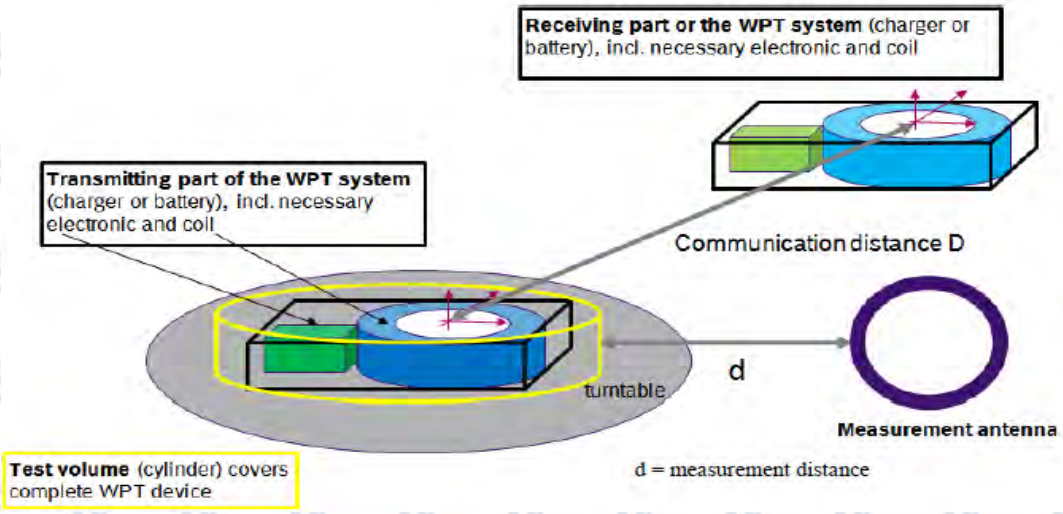
Operational Mode	Set-up	Function of base station	Function of mobile device	Test scenario	Conformance Requirements
☒Mode 1:base station in stand-by, idle mode	Single device	Transmitter	Not applicable	Single radiation test (TX) with the basestation/charging pad.The test set-up as described in clause 6.1.2 shall be used.	• Operating frequency range (clause 4.3.3) • H-Field emission (clause 4.3.4) • TX spurious (clauses 4.3.5, 4.3.6 and4.3.7) • Performance criteria test (RX test)(clause 4.4)
☒Mode 2: Communication before charging, adjustment charging mode / position	In combination	TX and RX	TX and RX	Specific test setup, declared by the manufacturer. Manufacturer shall declare the maximal distance between base station and mobile device the WPT system is able to communicate (distance D). The test setup- up shall be performed with the largest communication distance. The test set-up as described in clause 6.1.3 shall be used.	Operating frequency range (clause 4.3.3) • H-Field emission (clause 4.3.4) • TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7) • Wanted performance criteria test (RX test) (clause 4.4)
☒Mode 3: Communication	WPT system alignment	TX and RX	TX and RX	Worst case alignment Both tests can be performed within one set-up, worst-case alignment. The test set-up as described in clause 6.1.4 shall be used.	• Operating frequency range (clause 4.3.3) • H-Field emission (clause 4.3.4) • TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7) • Wanted Performance criteria test (RX test) (clause 4.4)
☒Mode 4: energy transmission	WPT system alignment	TX and RX	TX and RX		

2.4 Setup of equipment under test

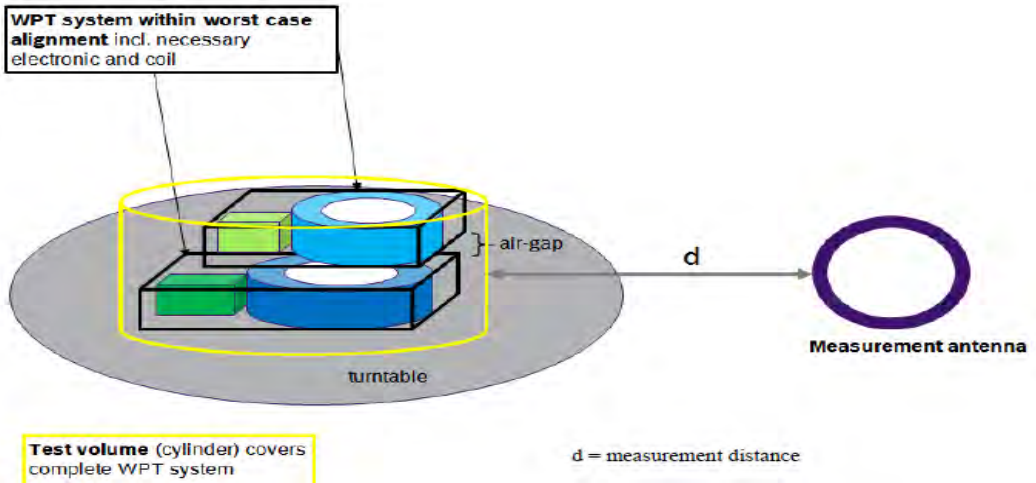
☒Mode 1: idle mode



☒Mode 2: charging adjustment



☒Mode 3 and Mode 4: power transmission arrangement



The distance D is: > 1 m,
Note: The operating mode is tested at maximum load.

2.5 Equipments list for all test items

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	Calibration period
1	EMI Test Receiver	R&S	ESPI7	101318	2021.05.10	1 year
2	Bilog Antenna	TESEQ	CBL6111D	31216	2021.04.10	1 year
3	Turn Table	EM	SC100_1	60531	N/A	N/A
4	Antnna Mast	EM	SC100	N/A	N/A	N/A
5	Horn Antenna	EM	EM-AH-10180	2011071402	2021.04.14	1 year
6	HF Cable	N/A	R-01	N/A	2020.08.06	3 year
7	HF Cable	N/A	R-02	N/A	2020.08.06	3 year
8	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.18	2 year
9	LF Cable	N/A	R-03	N/A	2020.08.06	3 year
10	Pre-Amplifier	EMC	EMC051835SE	980246	2020.08.03	1 year
11	Spectrum Analyzer	R&S	FSV40	101417	2020.10.06	1 year
12	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2020.08.03	1 year
13	Cable	N/A	RF-01	N/A	2020.08.06	3 year
14	Cable	N/A	RF-02	N/A	2020.08.03	3 year
15	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2020.10.07	1 year
16	Triple Loop Antenna	EVERFINE	LLA-2	11020003	2020.12.09	1 year

Transmitter parameters

3. H-field requirements (Radiated)

3.1 Applicability

This applies to all WPT systems.

3.2 Description

The radiated H-field is defined in the direction of maximum field strength under specified conditions of measurement.

3.3 Limits

The H-field limits are provided in Table 3.

The frequency ranges and limits of the present document are shown in table 3. The limits are based on the European Commission Decision for SRDs [i.10], CEPT/ERC/REC 70-03 [i.1].

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 ≤ f < 0,061	69,1 descending 10 dB/dec above 0,059 MHz	See note 1
0,079 ≤ 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.

The H-field limit in dBµA/m at 3 m, H3m, is determined by the following equation:

$$H_{3m} = H_{10m} + C3 \quad (F.2)$$

Where: H_{10m} is the H-field limit in dBµA/m at 10 m distance according to the present document; and C3 is a conversion factor in dB determined from figure F.2.

Owing to the frequency EUT is 1 kHz, so the C3 approach to 31.4dB.

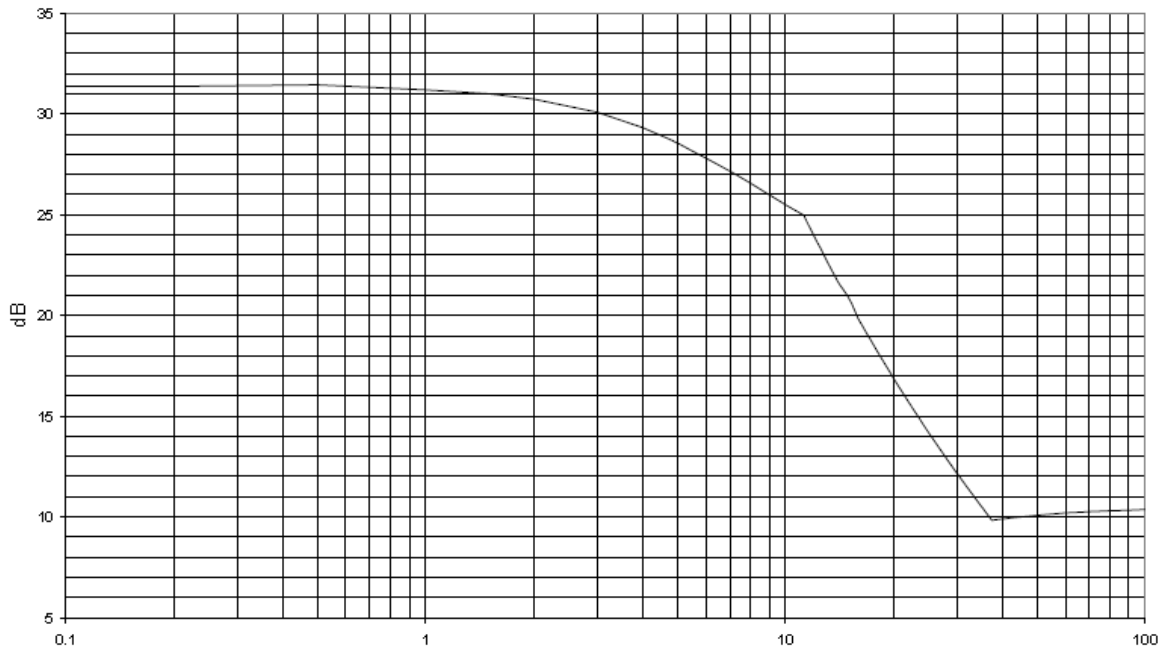


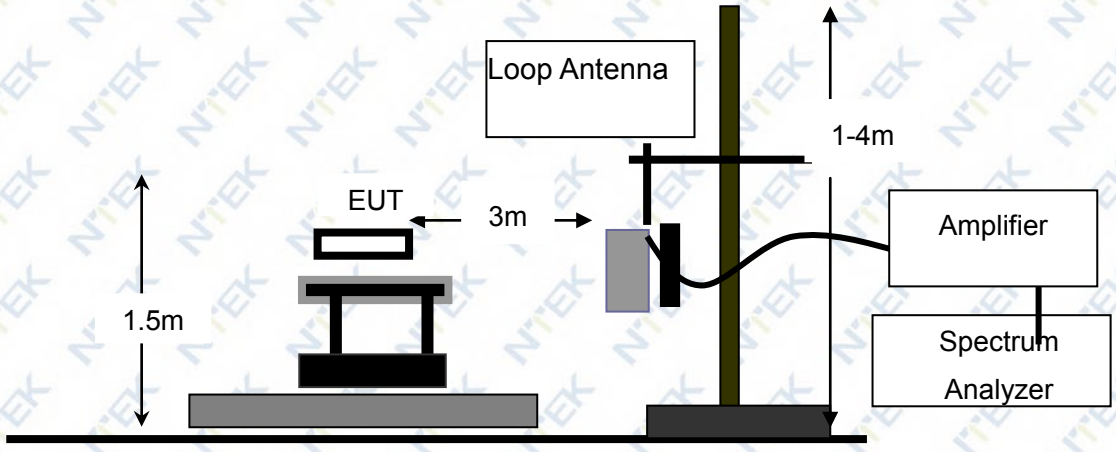
Figure F.2: Conversion factor C_3 versus frequency

3.4 Test Procedure

Refer to chapter 6.2.1 of ETSI EN 303 417 V1.1.1 (2017-01)

Measurement	
☐Conducted measurement	☒Radiated measurement

3.5 Test Setup



3.6 Test results

EUT :	Mobile Phone	Model Name :	BV6300Pro
Temperature :	26℃	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V (Normal)
Test Mode :	Operating/ Communication/ Standby Mode		

Operating Mode:

Test results tested at 3m test sites				
Freq.	Reading Level@3m	Calculated Level@10m	Limit@10m	Margin-10m
(kHz)	(dBuA/m)	(dBuA/m)	(dBuA/m)	(dBuA/m)
111.26	7.51	-23.89	42	-65.89
120.35	12.12	-19.28	65.95	-85.23
138.24	6.45	-24.95	42	-66.95
146.15	5.45	-25.95	37.7	-63.65
150.58	2.57	-28.83	-5	-23.83

Communication mode:

Test results tested at 3m test sites				
Freq.	Reading Level@3m	Calculated Level@10m	Limit@10m	Margin-10m
(kHz)	(dBuA/m)	(dBuA/m)	(dBuA/m)	(dBuA/m)
105.36	2.52	-28.88	42	-70.88
123.54	-4.36	-35.76	65.84	-101.60
138.45	-6.37	-37.77	42	-79.77
145.33	-6.28	-37.68	37.7	-75.38
155.02	4.09	-27.31	-5	-22.31

Stand-by Mode:

Test results tested at 3m test sites				
Freq.	Reading Level	Calculated Level@10m	Limit@10m	Margin-3m
(kHz)	(dBuA/m)	(dBuA/m)	(dBuA/m)	(dBuA/m)
173.36	-10.95	-42.35	-5	-37.35

Remark:

1. The EUT 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.
2. $H_{10m} = H_{3m} - C3$; (C3=31.4).

4. Operating frequency range(s) (OFR)

4.1 Applicability

This applies to all WPT systems.

4.2 Description

The operating frequency range is the frequency range over which the WPT system is intentionally transmitting (all operational modes, see clause 4.2.3, Table 2).
The operating frequency range(s) of the WPT system are determined by the lowest (fL) and highest frequency (fH) as occupied by the power envelope.
The WPT system could have more than one operating frequency range.
For a single frequency systems the OFR is equal to the occupied bandwidth (OBW) of the WPT system. For multi-frequency systems the OFR is described in Figures 2 and 3.

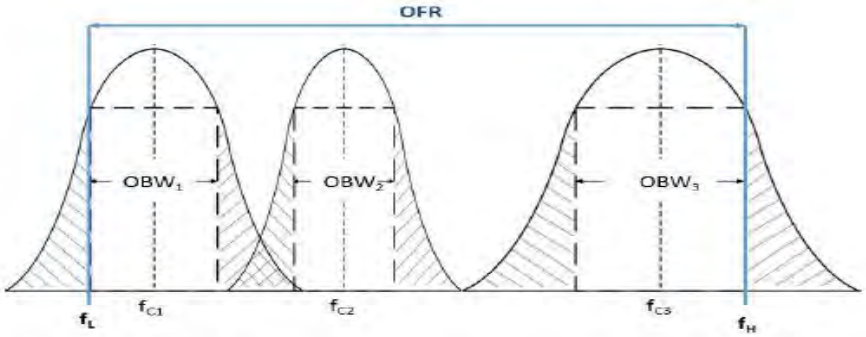


Figure 2: OFR of a multi - frequency WPT system within one frequency range of Table 2 and within one WPT system cycle time

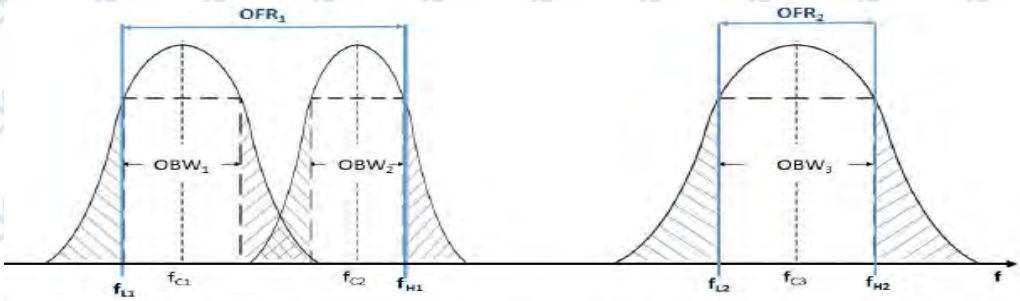


Figure 3: OFR of a multi - frequency WPT system within two frequency ranges of Table 2 and within one WPT system cycle time

4.3 Limits

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, 6 765 - 6 795 kHz.

4.4 Test procedure

Refer to chapter 6.2.1 of ETSI EN 303 417 V1.1.1 (2017-01)

Measurement	
☒Conducted measurement	☐Radiated measurement

4.5 Test setup

Please to see the standard section 6.2.1

4.6 Test Results

EUT :	Mobile Phone	Model Name :	BV6300Pro
Temperature :	26℃	Relative Humidity	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	Operating/ Communication/ Standby Mode		

Operating Mode:

99%OCCUPIED BANDWIDTH(kHz)		Measured frequencies		Limit	PASS /FAIL
a single frequency	a multi - frequency	F_L (kHz)	F_H (kHz)		
0.637	35.427	109.797	145.224	F_L>100kHz and F_H<300 kHz	PASS

Extreme condition				Frequency range (kHz)	
				F_L	F_H
T min (°C)	-10.00	V max (V)	4.4	109.796	145.223
		V nom (V)	3.85	109.798	145.225
		V min (V)	3.4	109.795	145.222
T max (°C)	40.00	V max (V)	4.4	109.797	145.224
		V nom (V)	3.85	109.793	145.220
		V min (V)	3.4	109.794	145.221
Min. f_L / Max. f_H Band Edges				109.798	145.225
Limits				F_L > 100kHz	F_L < 300 kHz
Result				**Complies**	

Communication Mode:

99%OCCUPIED BANDWIDTH(kHz)		Measured frequencies		Limit	PASS /FAIL
a single frequency	a multi - frequency	F_L (kHz)	F_H (kHz)		
0.695	35.427	109.797	145.224	F_L>100kHz and F_H<300 kHz	PASS

Extreme condition				Frequency range (kHz)	
				F_L	F_H
T min (°C)	-10.00	V max (V)	4.4	109.795	145.221
		V nom (V)	3.85	109.797	145.223
		V min (V)	3.4	109.794	145.220
T max (°C)	40.00	V max (V)	4.4	109.796	145.222
		V nom (V)	3.85	109.792	145.218
		V min (V)	3.4	109.793	145.219
Min. f_L / Max. f_H Band Edges				109.797	145.223
Limits				F_L > 100kHz	F_L < 300 kHz
Result				**Complies**	

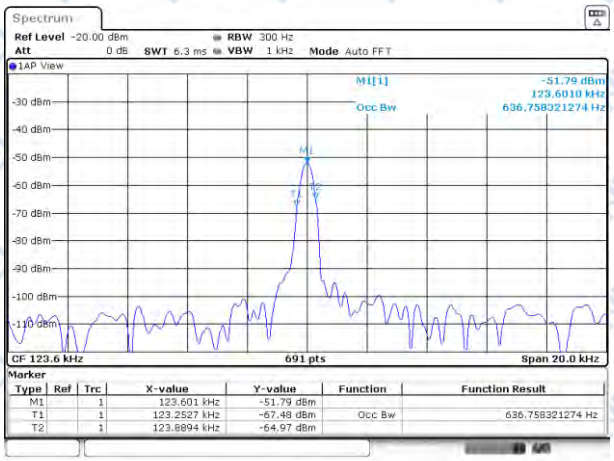
Stand-by Mode:

99%OCCUPIED BANDWIDTH (KHz)		Measured frequencies		Limit	PASS /FAIL
a single frequency	a multi - frequency	F_L (kHz)	F_H (kHz)		
0.608	0.608	159.8606	160.4685	F_L>100kHz and F_H<300 kHz	PASS

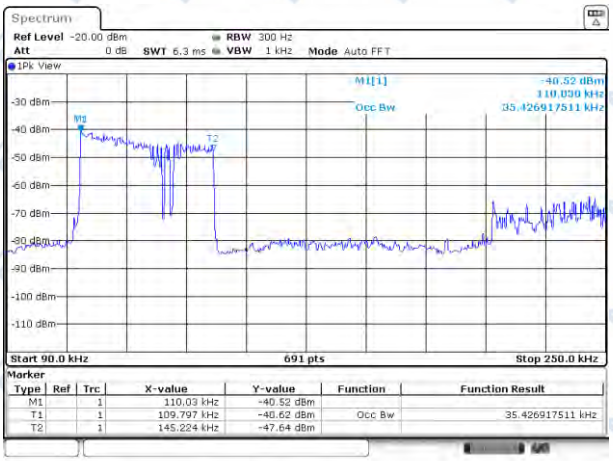
Extreme condition				Frequency range (kHz)	
				F_L	F_H
T min (°C)	-10.00	V max (V)	4.4	159.860	160.468
		V nom (V)	3.85	159.862	160.470
		V min (V)	3.4	159.859	160.467
T max (°C)	40.00	V max (V)	4.4	159.861	160.469
		V nom (V)	3.85	159.857	160.465
		V min (V)	3.4	159.858	160.466
Min. f_L / Max. f_H Band Edges				159.862	160.470
Limits				**F_L** > 100kHz	**F_L** < 300 kHz
Result				**Complies**	

Test Plot

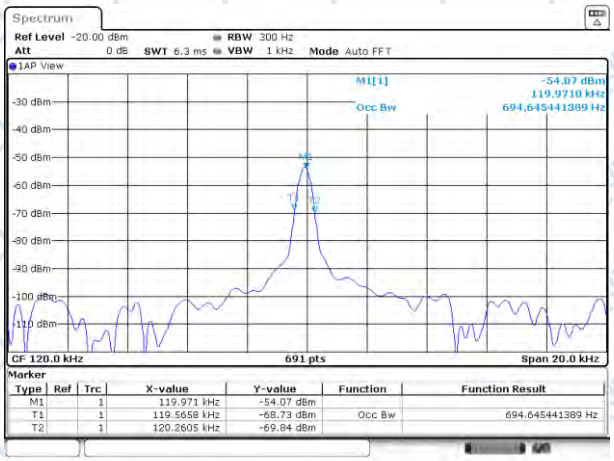
Operating Mode- a single frequency



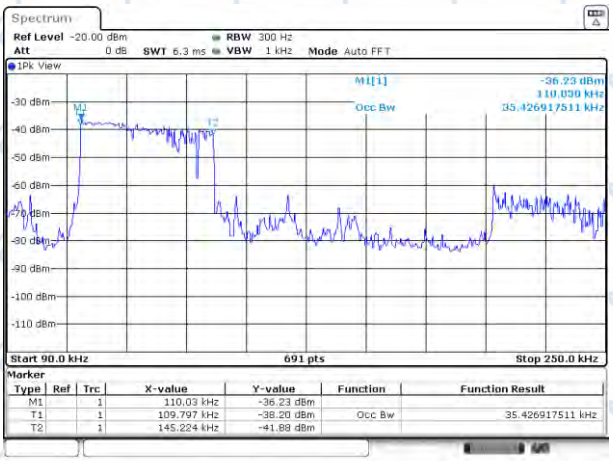
Operating Mode- a multi - frequency



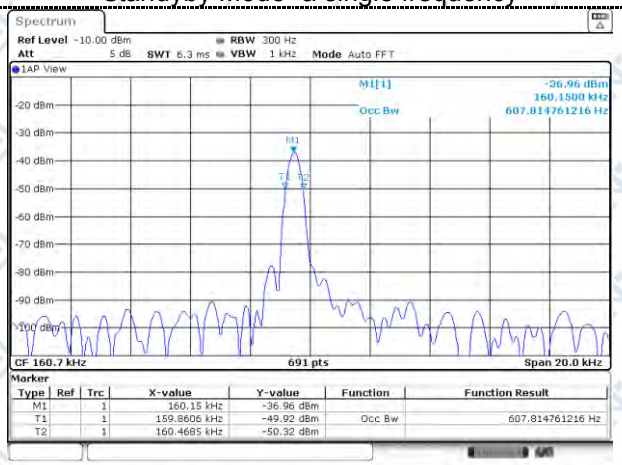
Communication Mode- a single frequency



Communication Mode- a multi - frequency



Standyby Mode- a single frequency



5. Transmitter out of band (OOB) emissions

5.1 Applicability

This requirement applies to all WPT systems.

5.2 Description

The WPT system out of band emissions are to be considered in frequency ranges defined in Figure 4 and Figure 5(between fSL and fL and between fH and fSH).

5.3 Limits

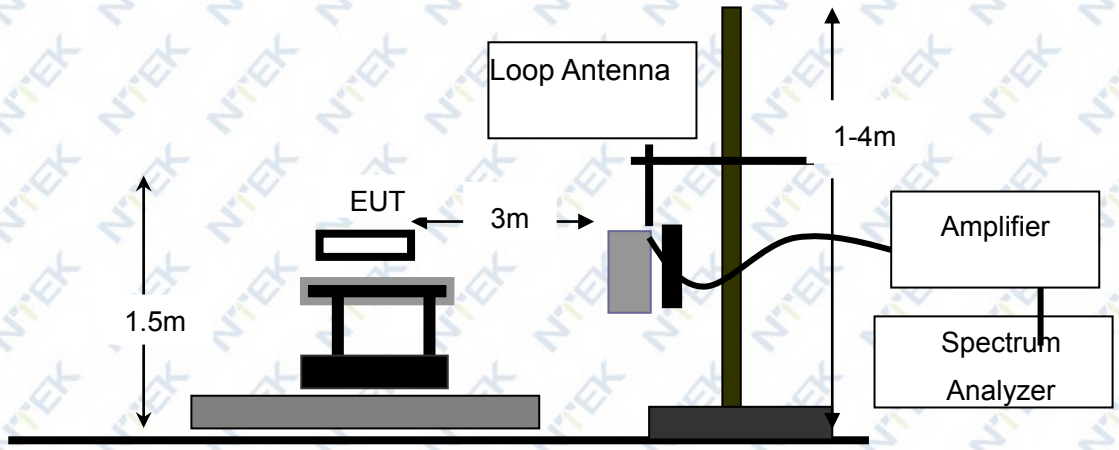
The OOB limits are visualized in Figures 4 and 5; they are descending from the intentional limits from Table 3 at fH/fL with 10 dB/decade.

5.4 Test Procedure

Refer to chapter 6.2.1 of ETSI EN 303 417 V1.1.1 (2017-01)

Measurement	
☐Conducted measurement	☒Radiated measurement

5.5 Test Setup



5.6 Test Results

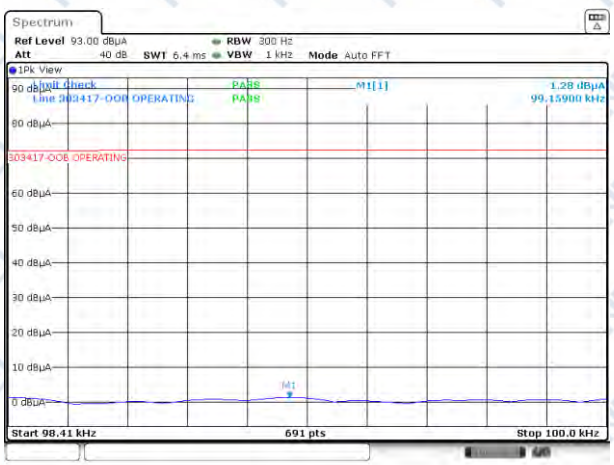
EUT：	Mobile Phone	Model Name ：	BV6300Pro
Temperature：	26℃	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	Operating/ Communication/ Standby Mode		

Remark:

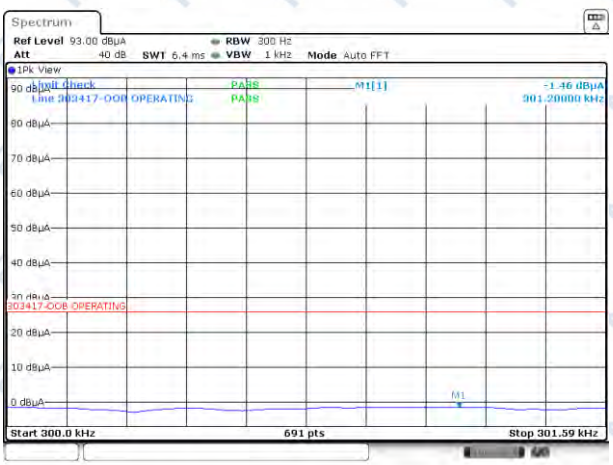
The EUT Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.
X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
Y: Field strength which this device generates since the position of the charging 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 Plot

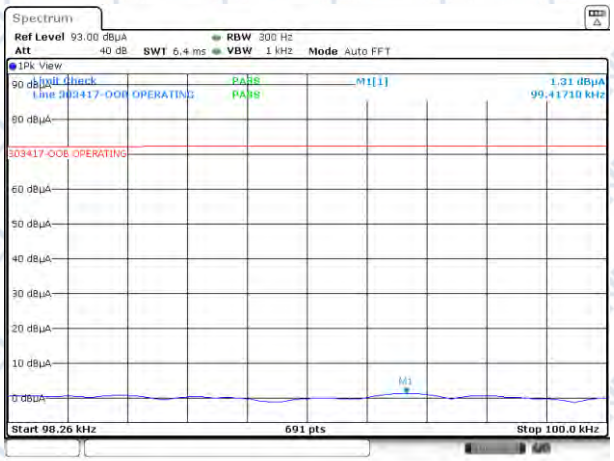
Operating Mode- F_L



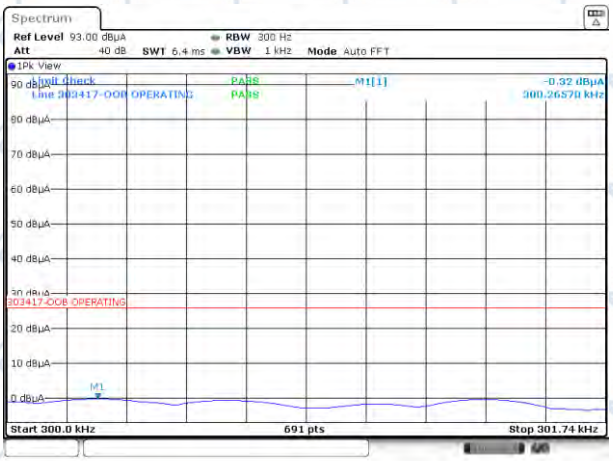
Operating Mode - F_H



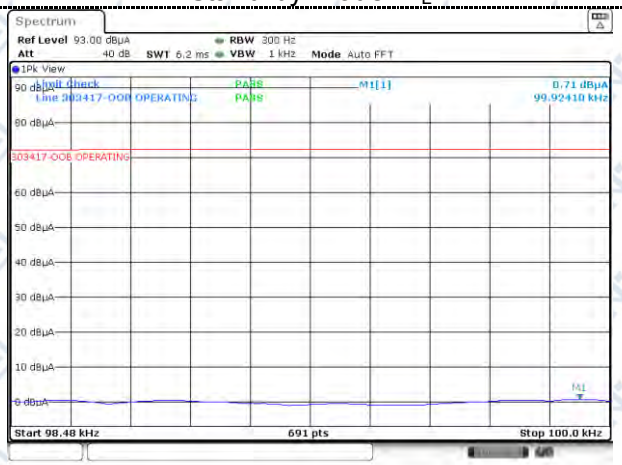
Communication Mode- F_L



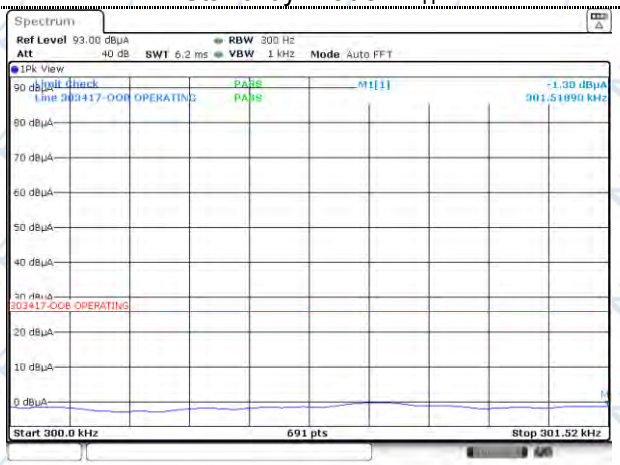
Communication Mode- F_H



Stand-by Mode- F_L



Stand-by Mode - F_H



6. Transmitter spurious emissions

6.1 Applicability

This applies to all WPT systems.

6.2 Description

The transmitter spurious emissions for a single frequency system are to be considered in frequency ranges defined in Figure 4 (f < fSL and f > fSH).

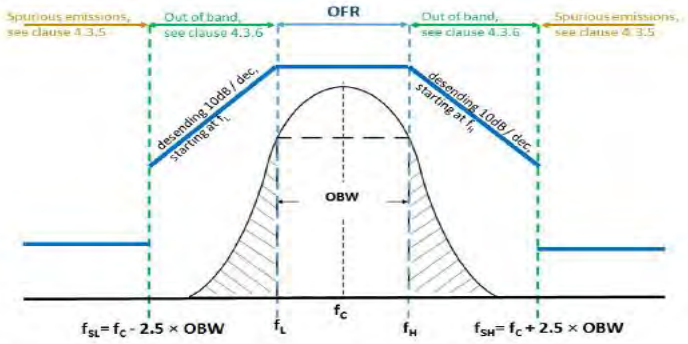


Figure 4: Out of band and spurious domain of a single frequency WPT system

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 < fSL and f > fSH).

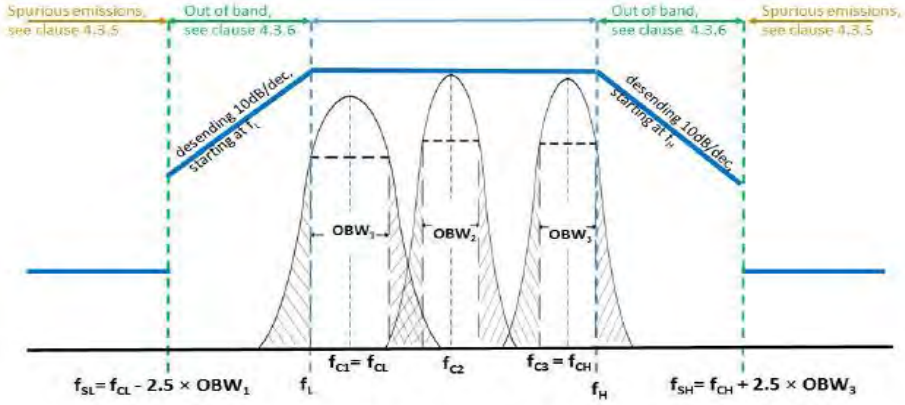


Figure 5: Out of band and spurious domain of a multi - frequency system (during one WPT system cycle time)

6.3 Limits

The radiated field strength of spurious emissions below 30 MHz shall not exceed the generated H-field given in Table 4.

Table 4

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 mode 1 according to Table 2.		

The power of any radiated spurious emission between 30 MHz and 1 GHz shall not exceed the values given in Table 5.

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 Table 2.		

Convert reading by 51,5 dB for measuring equipment calibrated in dBµV or dBµV/m.

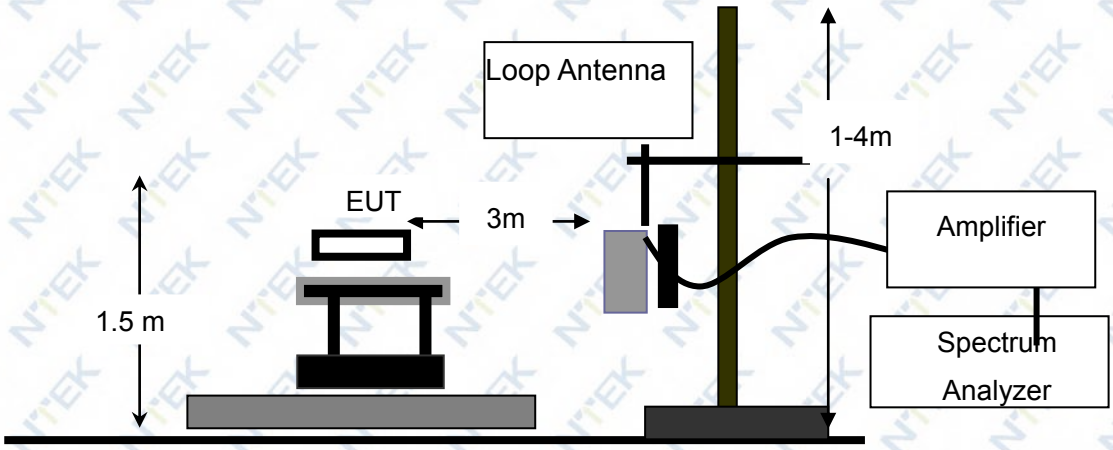
6.4 Test Procedure

Refer to chapter 6.2.1 of ETSI EN 303 417 V1.1.1 (2017-09)

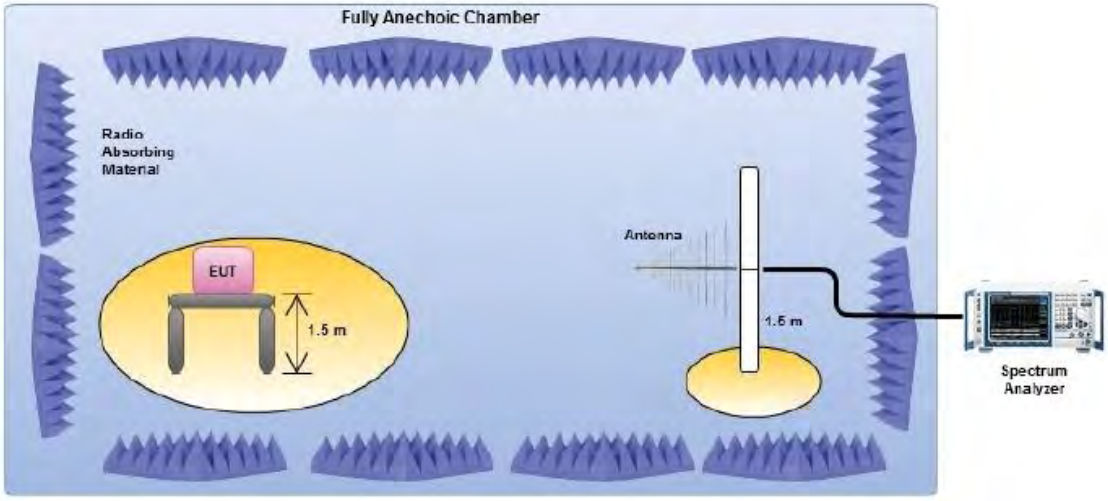
Measurement	
☐Conducted measurement	☒Radiated measurement

6.5 Test Setup

Frequency Range (9kHz-30MHz)



Frequency Range (30MHz~1GHz)



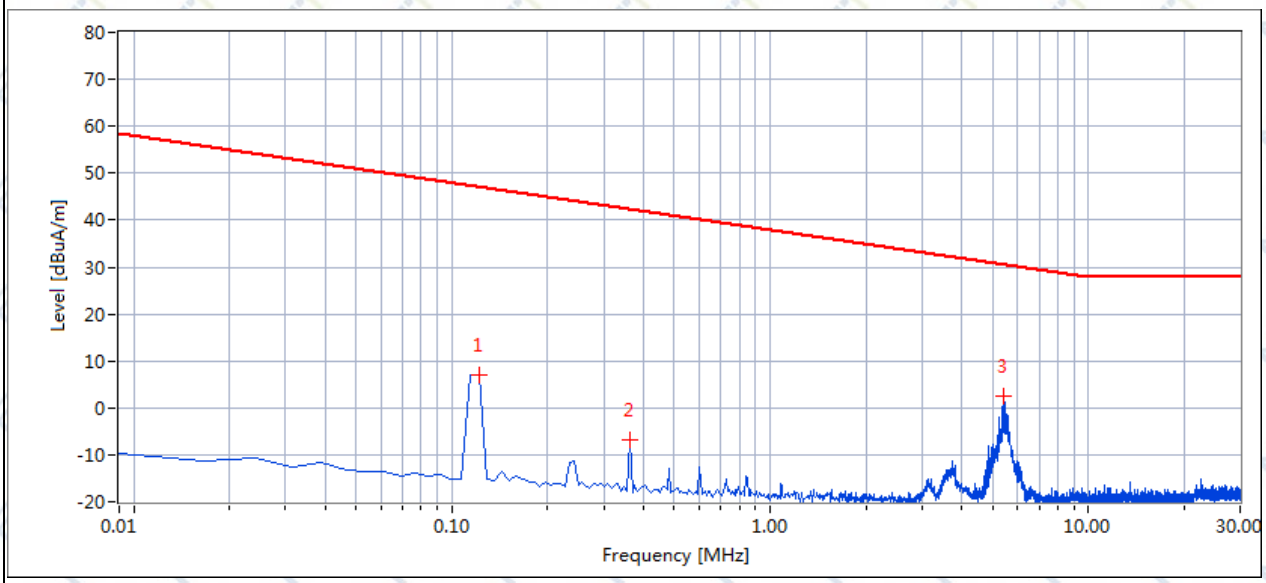
6.6 Test Results

EUT：	Mobile Phone	Model Name ：	BV6300Pro
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.85V
Test Mode ：	Operating/ Communication/ Standby Mode		

Operating Mode

Remark:
1. The EUT 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.
2. Measuring frequencies from 9KHz to the 30MHz.
3. H3m = H10m+C3; (C3=31.4).

Frequency MHz	Pre-scan Level MaxPeak dBuA/m	Final Test Level MaxPeak dBuA/m	Limit MaxPeak dBuA/m	Margin dB
0.121	6.9	6.6	47.1	40.5
0.362	-6.9	-6.8	42.4	49.2
5.428	2.5	2.1	30.6	28.4

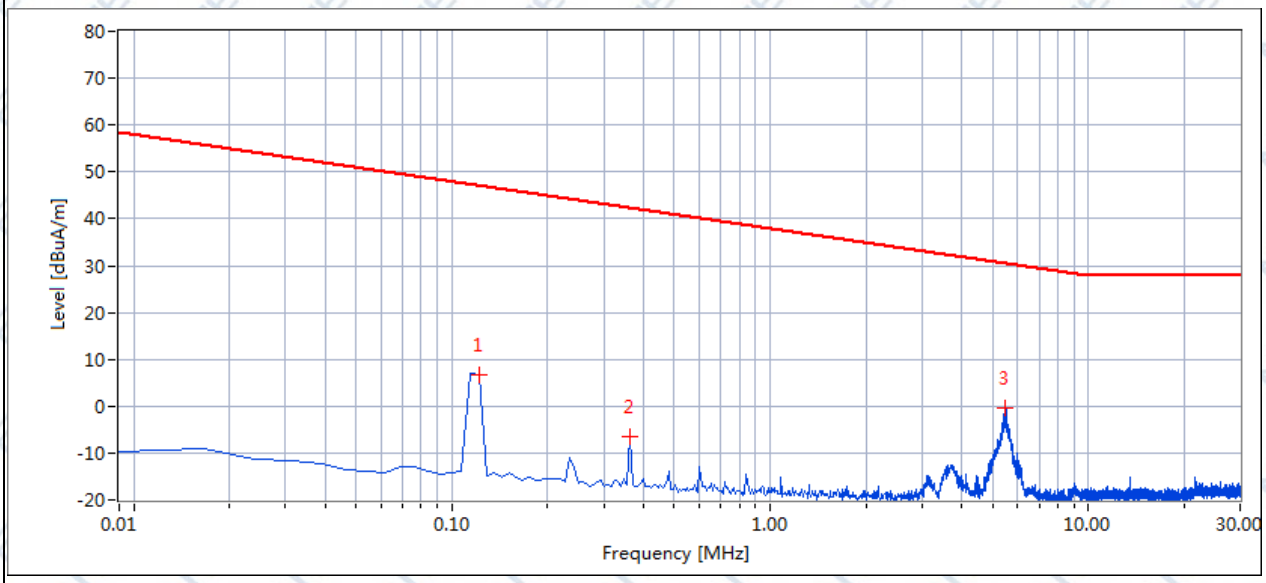


Communication Mode

Remark:

1. The EUT 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.
4. Measuring frequencies from 9KHz to the 30MHz.
5. H3m = H10m+C3; (C3=31.4).

Frequency MHz	Pre-scan Level MaxPeak dBuA/m	Final Test Level MaxPeak dBuA/m	Limit MaxPeak dBuA/m	Margin dB
0.121	6.6	6.6	47.1	40.5
0.362	-6.5	-7.0	42.4	49.4
5.482	-0.3	-0.5	30.6	31.0

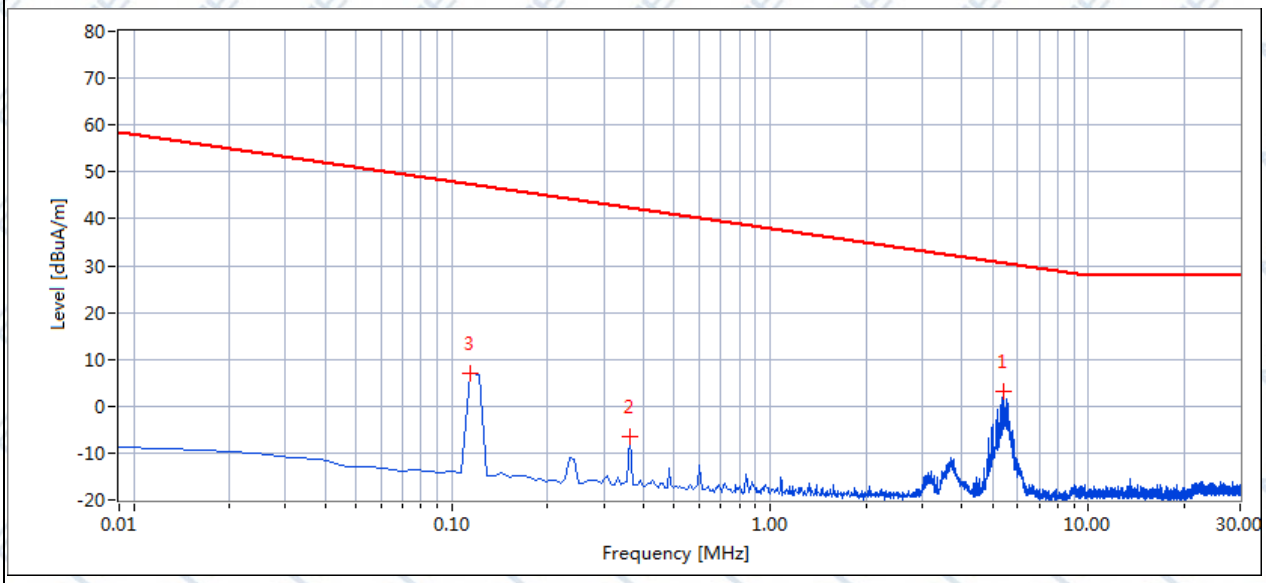


Standby Mode

Remark:

1. The EUT 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.
6. Measuring frequencies from 9KHz to the 30MHz.
7. H3m = H10m+C3; (C3=31.4).

Frequency MHz	Pre-scan Level MaxPeak dBuA/m	Final Test Level MaxPeak dBuA/m	Limit MaxPeak dBuA/m	Margin dB
5.432	3.3	3.1	30.6	27.5
0.362	-6.6	-5.3	42.4	47.7
0.121	7.0	6.8	47.1	40.3



ABOVE 30 MHz TEST RESULT

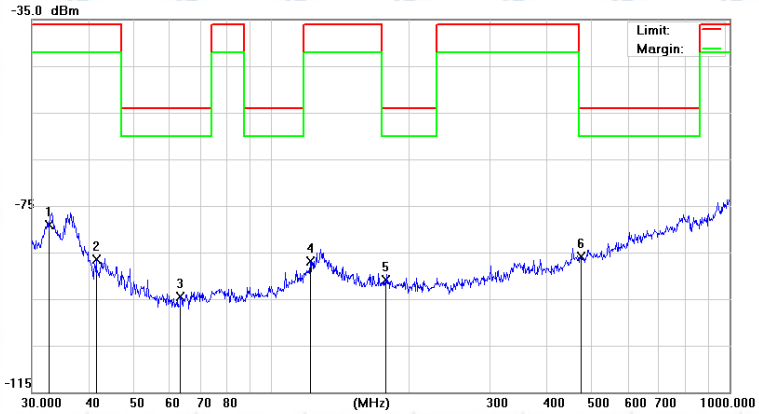
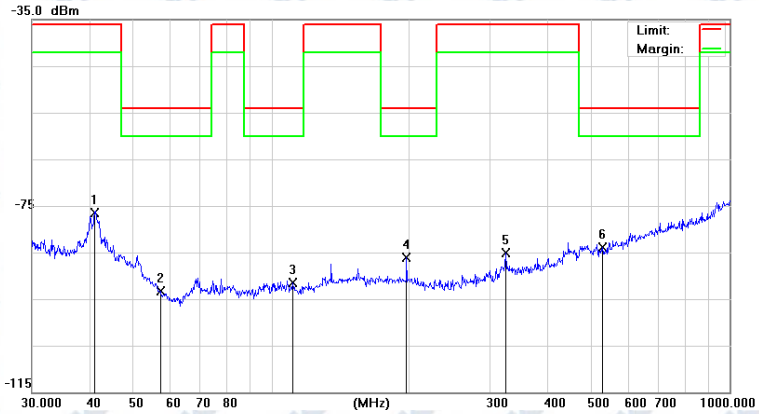
EUT：	Mobile Phone	Model Name ：	BV6300Pro
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.85V
Test Mode ：	Operating/ Communication/ Standby Mode		

Operating Mode

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	41.1319	-90.34	13.94	-76.40	-36.00	-40.40	peak
V	57.1914	-99.59	6.39	-93.20	-54.00	-39.20	peak
V	111.3468	-101.73	10.22	-91.51	-54.00	-37.51	peak
V	197.1999	-97.61	11.45	-86.16	-54.00	-32.16	peak
V	324.4560	-98.43	13.40	-85.03	-36.00	-49.03	peak
V	528.2458	-101.44	17.58	-83.86	-54.00	-29.86	peak
H	32.7486	-97.55	18.36	-79.19	-36.00	-43.19	peak
H	41.4215	-100.31	13.78	-86.53	-36.00	-50.53	peak
H	63.3132	-100.16	5.71	-94.45	-54.00	-40.45	peak
H	121.5485	-97.50	10.55	-86.95	-36.00	-50.95	peak
H	177.5089	-103.09	12.11	-90.98	-54.00	-36.98	peak
H	473.8346	-102.23	16.41	-85.82	-54.00	-31.82	peak

Remark:

1. Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level.

Test Plot
H
 -35.0 dBm Limit: Margin: -75 -115 30.000 40 50 60 70 80 (MHz) 300 400 500 600 700 1000.000
V
 -35.0 dBm Limit: Margin: -75 -115 30.000 40 50 60 70 80 (MHz) 300 400 500 600 700 1000.000

Communication Mode

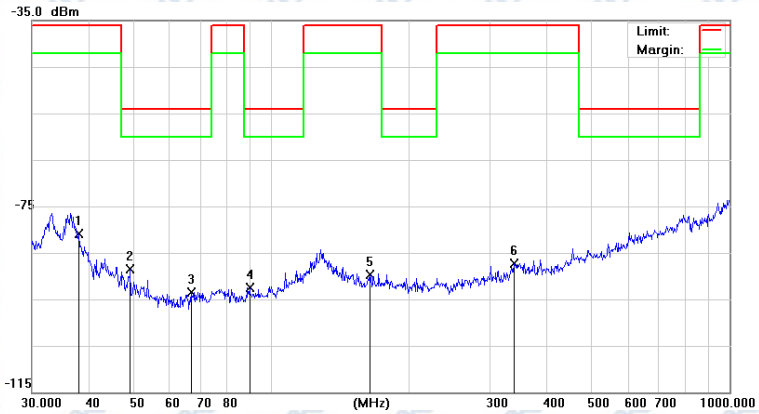
Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	34.2760	-100.97	17.46	-83.51	-36.00	-47.51	peak
V	51.4806	-96.34	9.07	-87.27	-54.00	-33.27	peak
V	101.2883	-101.90	10.26	-91.64	-54.00	-37.64	peak
V	135.0319	-98.45	10.97	-87.48	-36.00	-51.48	peak
V	179.3863	-102.05	11.96	-90.09	-54.00	-36.09	peak
V	261.0581	-100.97	10.97	-90.00	-36.00	-54.00	peak
H	37.9450	-96.75	15.76	-80.99	-36.00	-44.99	peak
H	49.1865	-98.27	9.70	-88.57	-54.00	-34.57	peak
H	66.7325	-100.50	6.99	-93.51	-54.00	-39.51	peak
H	89.5899	-102.23	9.68	-92.55	-54.00	-38.55	peak
H	163.7547	-101.30	11.68	-89.62	-36.00	-53.62	peak
H	338.4001	-101.17	13.88	-87.29	-36.00	-51.29	peak

Remark:

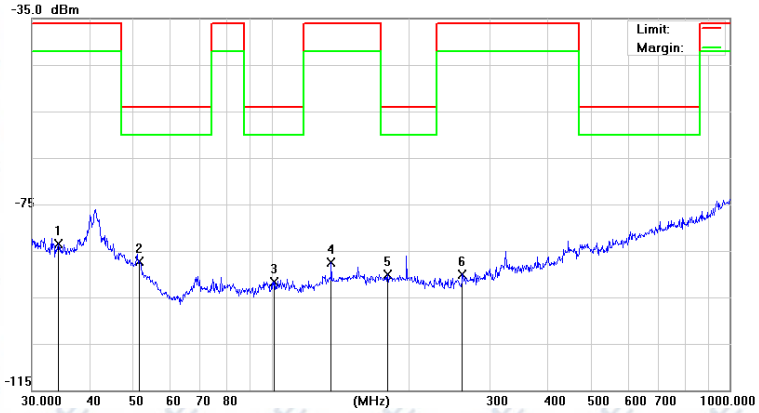
2. Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level.

Test Plot

H



V



Standby Mode

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	36.1272	-100.39	16.88	-83.51	-57.00	-26.51	peak
V	50.9420	-101.68	9.25	-92.43	-57.00	-35.43	peak
V	69.6003	-99.01	8.75	-90.26	-57.00	-33.26	peak
V	163.7547	-100.91	11.68	-89.23	-57.00	-32.23	peak
V	301.4223	-96.23	12.65	-83.58	-57.00	-26.58	peak
V	495.9343	-99.62	17.36	-82.26	-57.00	-25.26	peak
H	41.8596	-101.35	13.55	-87.80	-57.00	-30.80	peak
H	65.5725	-99.08	6.20	-92.88	-57.00	-35.88	peak
H	109.4116	-100.83	10.24	-90.59	-57.00	-33.59	peak
H	155.9096	-95.23	11.79	-83.44	-57.00	-26.44	peak
H	226.8934	-100.76	10.88	-89.88	-57.00	-32.88	peak
H	327.8872	-101.70	13.56	-88.14	-57.00	-31.14	peak

Remark:

3. Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level.

Test Plot

H

V

Receiver parameters

7. Receiver blocking

7.1 Applicability

This requirement applies to all WPT systems operation in Mode 1, Mode 2 and Mode 3.

7.2 Description

Blocking is a measure of the capability of the receiver to receive a wanted signal without exceeding a given degradation due to the presence of an unwanted input signal at any frequencies other than those of the receiver spurious responses.

The test shall be performed in the relevant operational modes (see clause 4.2.3).

The wanted performance criteria from clause 4.2.2 shall be used as criterion for the receiver blocking tests.

7.3 Limits& Wanted performance criteria

The receiver blocking limits in Table 6 shall be fulfilled.

Table 6: Receiver blocking limits

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

Wanted performance criteria

A WPT system always consists of a base station and a mobile device which are in proximity to each other. The performance of a WPT system is dependent on the related operational mode, see clause 4.2.3.

For the purpose of the receiver performance tests, the WPT system shall produce an appropriate output under normal conditions as indicated below:

- use as intended without degradation of performance; or
- a degradation of the performance is indicated by the WPT system as described in the manual.

The manufacturer shall declare the performance criteria used to determine the performance of the receiving parts inside the WPT system (related to the mode).

7.4 Test Procedure

Refer to chapter 6.3.2 of ETSI EN 303 417 V1.1.1 (2017-09)

Measurement	
☐Conducted measurement	☒Radiated measurement

7.5 Test Setup

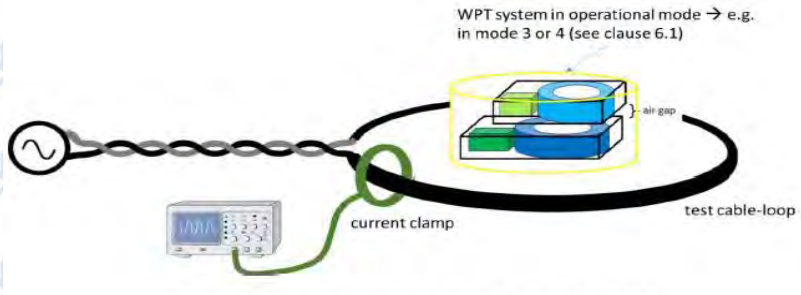


Figure 11: Schematic test set-up for the RX-blocking test

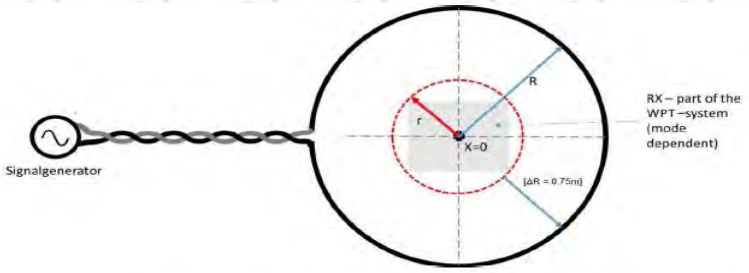


Figure 12: Schematic test set-up for the RX-blocking test

If the WPT system meets the wanted performance criterion at all times, then the test shall be considered as passed. Otherwise, the test is considered as failed.

7.6 Test Results

EUT：	Mobile Phone	Model Name ：	BV6300Pro
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.85V
Test Mode ：	Operating/ Communication/ Standby Mode		

Operating Mode

Frequency(kHz)	Unwanted Signal(dBuA/m)	loop current I(mA)	maximum H-Field(dBuA/m)	Result
Centre frequency (fc)=123.601	72	0.316	79	Pass
f = fc +F=124.238	72	0.328	82	Pass
f = fc –F=122.964	72	0.336	84	Pass
f = fc +10 ×F=129.971	82	0.360	90	Pass
f = fc- 10 × F=117.231	82	0.364	91	Pass
Note:1. F=0.637kHz; R=2m; H=I/2R 2. “Pass” means the EUT compliance with the Wanted performance criteria.				

Communication Mode

Frequency(kHz)	Unwanted Signal(dBuA/m)	loop current I(mA)	maximum H-Field(dBuA/m)	Result
Centre frequency (fc)=119.971	72	0.314	78.5	Pass
f = fc +F=120.666	72	0.332	83	Pass
f = fc –F=119.276	72	0.336	84	Pass
f = fc +10 ×F=126.924	82	0.358	89.5	Pass
f = fc- 10 × F=113.021	82	0.354	88.5	Pass
Note:1. F=0.695kHz; R=2m; H=I/2R 2. “Pass” means the EUT compliance with the Wanted performance criteria.				

Standby Mode

Frequency(kHz)	Unwanted Signal(dBuA/m)	loop current I(mA)	maximum H-Field(dBuA/m)	Result
Centre frequency (fc)=160.15	72	0.326	81.5	Pass
f = fc +F=160.758	72	0.328	82	Pass
f = fc –F=159.542	72	0.330	82.5	Pass
f = fc +10 ×F=166.23	82	0.368	92	Pass
f = fc- 10 × F=154.07	82	0.364	91	Pass
Note:1. F=0.608kHz; R=2m; H=I/2R 2. “Pass” means the EUT compliance with the Wanted performance criteria.				

8. Photographs of the test configuration

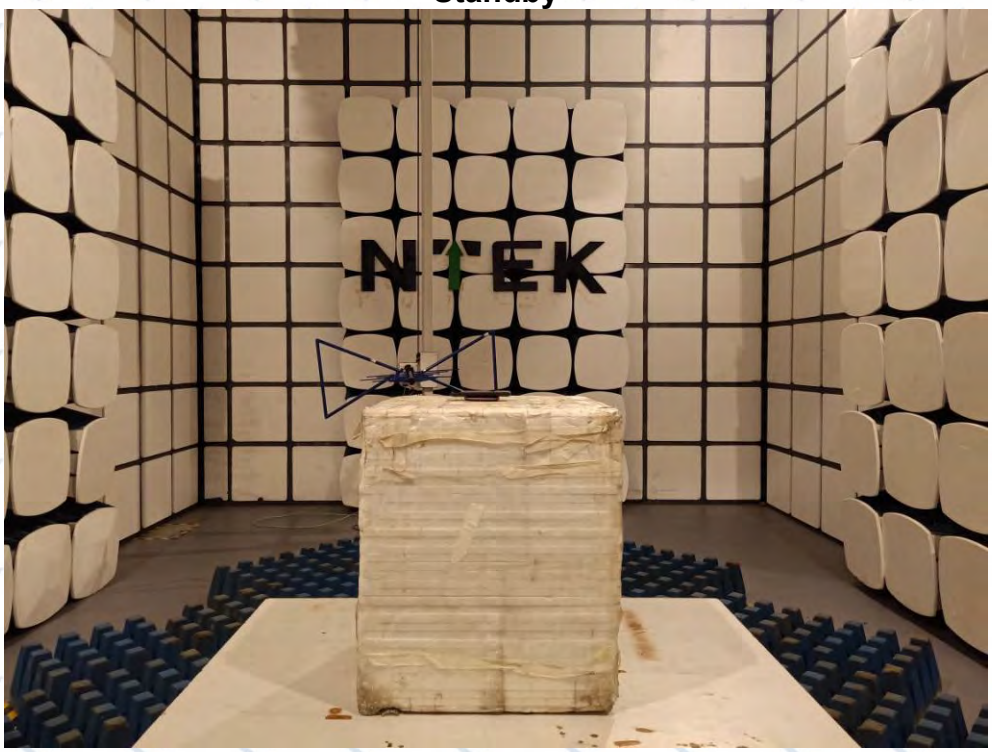
Spurious emissions measurement photos- Operating

Standby

Communication

Spurious emissions measurement photos- Operating

Standby



Communication

END OF REPORT