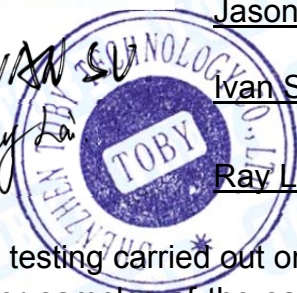


RF TEST REPORT

Certificate No. : TB180719447
Applicant :
Equipment Under Test (EUT)
EUT Name : Wireless charger Bluetooth speaker
Model No. : SL193
Serial Model No. : SL207, SL208, SL209, 2995, P328.091 , 128060, 128061, 128062, 128063, LT95092
Brand Name : N/A
Receipt Date : 2018-07-04
Test Date : 2018-07-05 to 2018-07-19
Issue Date : 2018-07-20
Standards : ETSI EN 303 417 V1.1.1: 2017
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above. The EUT technically complies with the Council Directive 2014/53/EU relating to radio equipment.

Test/Witness Engineer : Jason Xu
Engineer Supervisor : Ivan Su
Engineer Manager : Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TB-RF161069	Rev.01	Initial issue of report	2018-07-20

1 General Information

1.1 Client Information

Applicant	:	
Address	:	
Manufacturer	:	
Address	:	

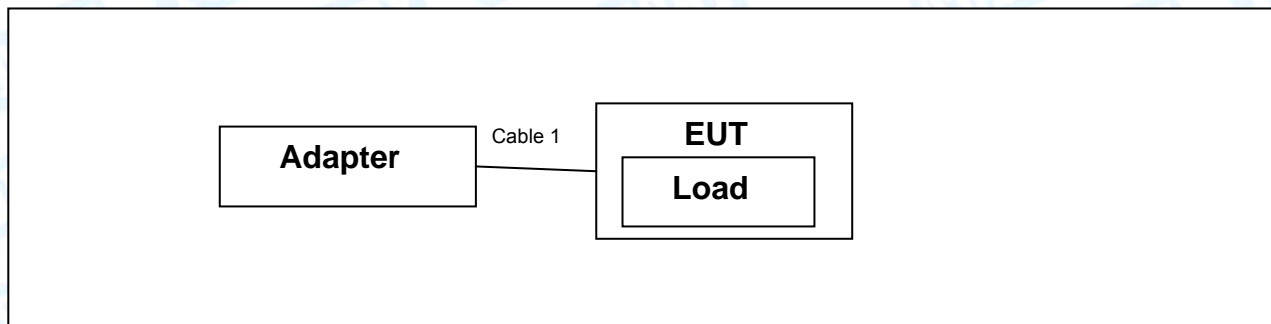
1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Wireless charger Bluetooth speaker	
Model No.	:	SL193, SL207, SL208, SL209, 2995, P328.091 , 128060, 128061, 128062, 128063, LT95092	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is appearance.	
Product Description	:		110 kHz to 205 kHz
		Operational Mode	<input type="checkbox"/> Mode 1: base station in stand-by, idle mode. <input type="checkbox"/> Mode 2: Communication before charging, adjustment charging mode/position. <input checked="" type="checkbox"/> Mode 3: Communication. <input checked="" type="checkbox"/> Mode 4: energy transmission.
		Antenna information	Coil Antenna: 0 dBi
Power Rating	:	DC 3.7V 400mAh by Li-ion Battery. Input: DC 5V by USB Cable. Wireless Output: DC 5V/0.8A	
Software Version	:	1.0	
Hardware Version	:	1.0	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

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

1.3 Block Diagram Showing the Configuration of System Tested



1.4 Description of Support Units

Equipment Information				
Name	Model	S/N	Manufacturer	Used “√”
Load	5V/9V	----	CHIPSVISION	√
Adapter	EP-TA200	----	SAMSUNG	√
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.8m	

1.5 Description of Operating Mode

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Items	Mode
Permitted range of operating frequencies	TX Mode
Operating frequency ranges	TX Mode
H-field requirements	TX Mode
Transmitter spurious emissions	TX Mode
Transmitter out of band (OOB) emissions	TX Mode
WPT system unwanted conducted emissions	N/A
Receiver blocking	RX Mode

Note:

- (1) The EUT is considered a portable unit, and it was pre-tested on the positioned of each 3 axis: X axis, Y axis and Z axis. The worst case was found positioned on X-plane. There for only the test data of this X-plane were used for radiated emission measurement test.

1.6 Description of Testing Condition

	Normal Test Conditions	Extreme Test Conditions
Temperature	15°C~35°C	-10°C~55°C
Humidity	20%~75%	N/A
Supply Voltage	DC 9V	DC 8.1V~DC 9.9V

Note :

- (1) For tests at extreme temperatures, measurements shall be made in accordance with the procedures specified in clause 5.6.1.1(EN 300 330), at the upper and lower temperatures of the range as follows:

Category I (General)	-20°C to +55°C
Category II (Portable)	-10°C to +55°C
Category III (Normal indoor use)	0°C to +35°C

(2) **Mains voltage:**

The extreme test voltage for equipment to be connected to an AC mains source shall be the nominal mains voltage $\pm 10\%$.

Regulated lead-acid or gel-cell type batteries:

When the radio equipment is intended for operation from the usual type of regulated lead-acid battery power sources, the extreme test voltages shall be 1,3 and 0,9 multiplied by the nominal voltage of the battery (6 V, 12 V, etc.).

For float charge applications using "gel-cell" type batteries, the extreme test voltages shall be 1,15 and 0,85 multiplied by the nominal voltage of the declared battery voltage.

Power sources using other types of batteries:

The lower extreme test voltages for equipment with power sources using the following types of battery shall be:

- For the Leclanché or lithium type battery: 0,85 times the nominal voltage of the battery;
- For the nickel-cadmium type of battery: 0,9 times the nominal voltage of the battery. In both cases, the upper extreme test voltage shall be 1,15 times the nominal voltage of the battery.
- For other types of batteries, the lower extreme test voltage for the discharged condition shall be declared by the equipment provider.

The nominal voltage is considered to be the upper extreme test voltage in this case.

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Expanded Uncertainty (U_{Lab})
Conducted Emission	± 3.42 dB
Radiated Emission (9kHz to 30 MHz)	± 4.60 dB
RF Power-Conducted	± 0.18 dB
RF level uncertainty for a given BER	± 1.5 dB
Radiated Emission (30MHz to 1000 MHz)	± 4.40 dB
Radiated Emission (Above 1000MHz)	± 4.20 dB
Temperature	$\pm 0.6^{\circ}\text{C}$
Humidity	$\pm 4\%$

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

2 Test Results Summary

Harmonised Standard ETSI EN 303 417					
Requirement			Requirement Conditionality		Result
No	Description	Reference: Clause No	U/C	Condition	-
1	Permitted range of operating frequencies	4.3.2	U	-	PASS
2	Operating frequency ranges	4.3.3	U	-	PASS
3	H-field requirements	4.3.4	U	-	PASS
4	Transmitter spurious emissions	4.3.5	U	-	PASS
5	Transmitter out of band (OOB) emissions	4.3.6	U	-	PASS
6	WPT system unwanted conducted emissions	4.3.7	C	Only for equipment which has a cable between the off board power supply and the primary coil which is longer than 3 m	N/A
7	Receiver blocking	4.4.2	C	Only for Mode 1, Mode 2 and Mode 3	PASS
Note: (1) "N/A" indicates test is not applicable in this Test Report. (2) "U/C": Indicates whether the requirement is unconditionally applicable (U) or is conditional upon the manufacturer's claimed functionality of the equipment (C).					

3 Test Equipment

Used Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	144382	Oct. 26, 2017	Oct. 25, 2018
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Oct. 26, 2017	Oct. 25, 2018
Vector Signal Generator	Agilent	N5182A	MY50141294	Oct. 26, 2017	Oct. 25, 2018
Analog Signal Generator	Agilent	N5181A	MY50141953	Oct. 26, 2017	Oct. 25, 2018
RF Power Sensor	DARE!! Instruments	RadiPowerRP R3006W	17I00015SNO26	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRP R3006W	17I00015SNO29	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRP R3006W	17I00015SNO31	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRP R3006W	17I00015SNO33	Oct. 26, 2017	Oct. 25, 2018
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 18, 2018	Jul. 17, 2019
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 18, 2018	Jul. 17, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.16, 2018	Mar. 15, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.16, 2018	Mar. 15, 2019
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 14, 2018	Jul. 13, 2019
Pre-amplifier	Sonoma	310N	185903	Mar.17, 2018	Mar. 16, 2019
Pre-amplifier	HP	8447B	3008A00849	Mar.17, 2018	Mar. 16, 2019
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.17, 2018	Mar. 16, 2019
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Mar.17, 2018	Mar. 16, 2019
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Temp. & Humidity Chamber	ZHONG ZHI	CZ-A-225D	HW08053	Jul. 18, 2018	Jul. 17, 2019
DC Power Supply	MATRIX	MPS-3005L-3	D806050W	Jul. 18, 2018	Jul. 17, 2019
AC Power Supply	HengJie	HPC-1110	2010007	Jul. 18, 2018	Jul. 17, 2019

4 Operating Frequency Rang(s)(OFR)

4.1 Test Standard and Limit

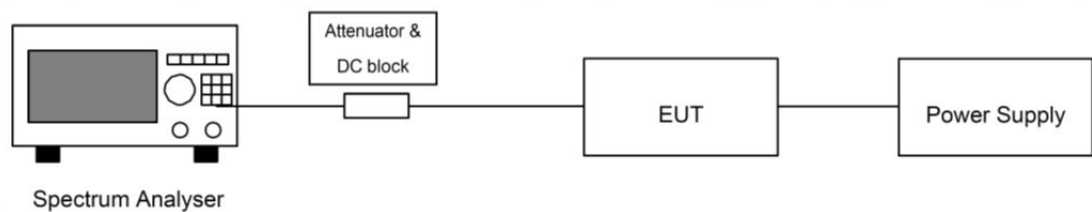
4.1.1 Test Standard

ETSI EN 303 417 V1.1.1:2017 clause 4.3.3

4.1.2 Test Limit

The permitted range of operating frequency range(s) for intentional emissions shall be within 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz.

4.2 Test Setup



4.3 Test Procedure

The method of measurement in clause 6.2.1 of ETSI EN 303 417 V1.1.1.

4.4 EUT Operation During Test

The measurements shall be performed during normal.

4.5 Test Data

Please refer to the Attachment A.

5 H-field Requirements

5.1 Test Standard and Limit

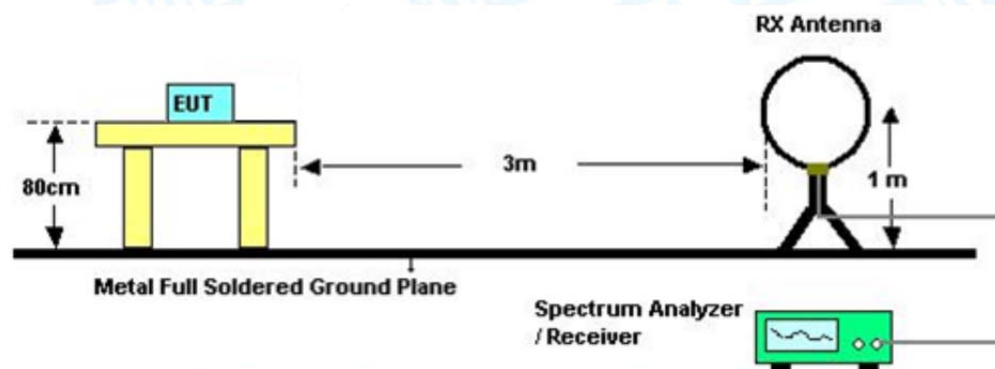
5.1.1 Test Standard

ETSI EN 303 417 V1.1.1:2017 clause 4.3.4

5.1.2 Limits

H-field Limits		
Frequency range [MHz]	H-field strength limit [dBμA/m at 10 m]	Comments
$0,019 \leq f < 0,021$	72	
$0,059 \leq f < 0,061$	69,1 descending 10 dB/dec above 0,059 MHz	See note 1
$0,079 \leq f < 0,090$	67,8 descending 10 dB/dec above 0,079 MHz	See note 2
$0,100 \leq f < 0,119$	42	
$0,119 \leq f < 0,135$	66 descending 10 dB/dec above 0,119 MHz	See note 1
$0,135 \leq f < 0,140$	42	
$0,140 \leq f < 0,1485$	37,7	
$0,1485 \leq f < 0,30$	-5	
$6,765 \leq f < 6,795$	42	
NOTE 1: Limit is 42 dBμA/m for the following spot frequencies: 60 kHz \pm 250 Hz and 129,1 kHz \pm 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.		
Distance extrapolation factor = $40 \log$ (specific distance / test distance) (dB). Limit line = specific limits (dBμV) + distance extrapolation factor.		

5.2 Test Setup



5.3 Test Procedure

The method of measurement in clause 6.2.1 of ETSI EN 303 417 V1.1.1

5.4 EUT Operation During Test

The measurements shall be performed during continuously transmitting.

5.5 Test Data

Please refer to the Attachment B.

6 Transmitter Spurious Emissions

6.1 Test Standard and Limit

6.1.1 Test Standard

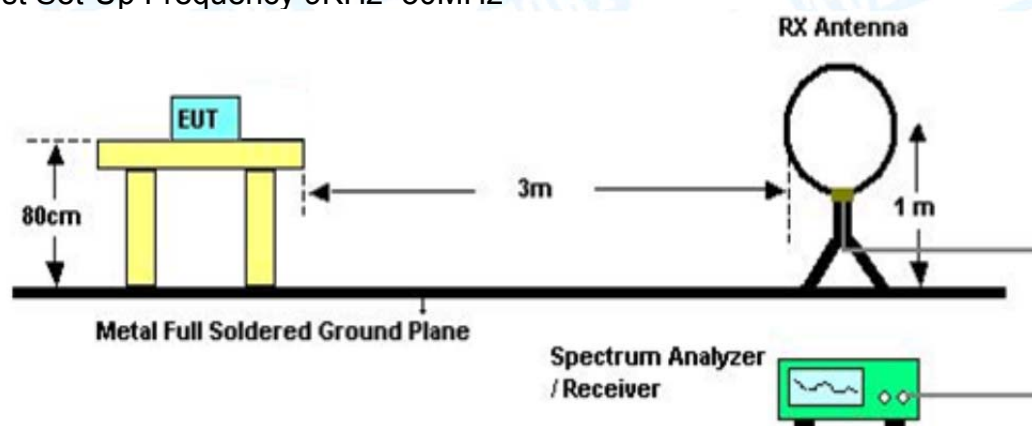
ETSI EN 303 417 V1.1.1:2017 clause 4.3.5

6.1.2 Limits

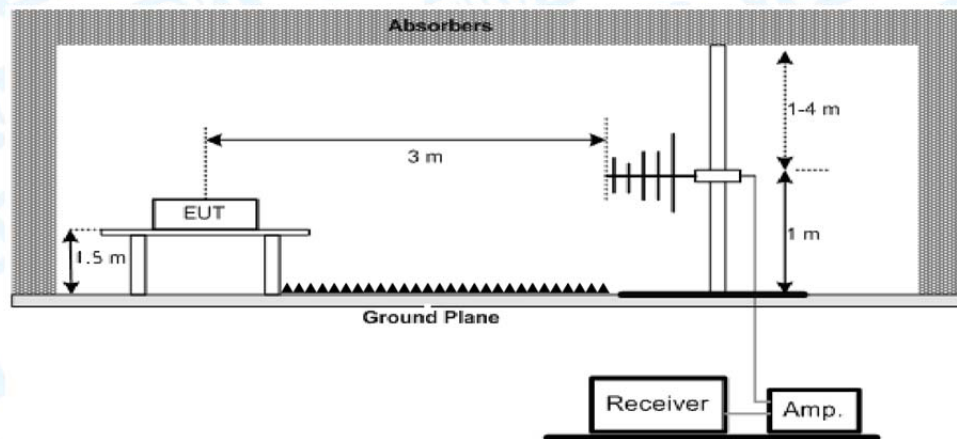
9KHz~30MHz		
State (see note)	Frequency $9\text{ kHz} \leq f < 10\text{ MHz}$	Frequency $10\text{ MHz} \leq f < 30\text{ MHz}$
Operating	27 dB μ A/m at 9 kHz descending 10 dB/dec	-3,5 dB μ A/m
Standby	5,5 dB μ A/m at 9 kHz descending 10 dB/dec	-25 dB μ A/m
NOTE: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1 according to Table 2.		
Below 1G		
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.		

6.2 Test Setup

(1) Test Set-Up Frequency 9KHz~30MHz



(2) Test Set-Up Frequency Below 1GHz



6.3 Test Procedure

The method of measurement in clause 6.2.1 of ETSI EN 303 417 V1.1.1.

6.4 EUT Operation During Test

The measurements shall be performed during continuously transmitting.

6.5 Test Data

Please refer to the Attachment C.

7 Transmitter out of Band (OOB) Emissions

7.1 Test Standard and Limit

7.1.1 Test Standard

ETSI EN 303 417 V1.1.1:2017 clause 4.3.6.

7.1.2 Limits

Transmitter out of band (OOB) emissions

They are descending from the intentional limits from Table 3 of section 5.1 in the test report at f_H/f_L with 10 dB/decade.

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

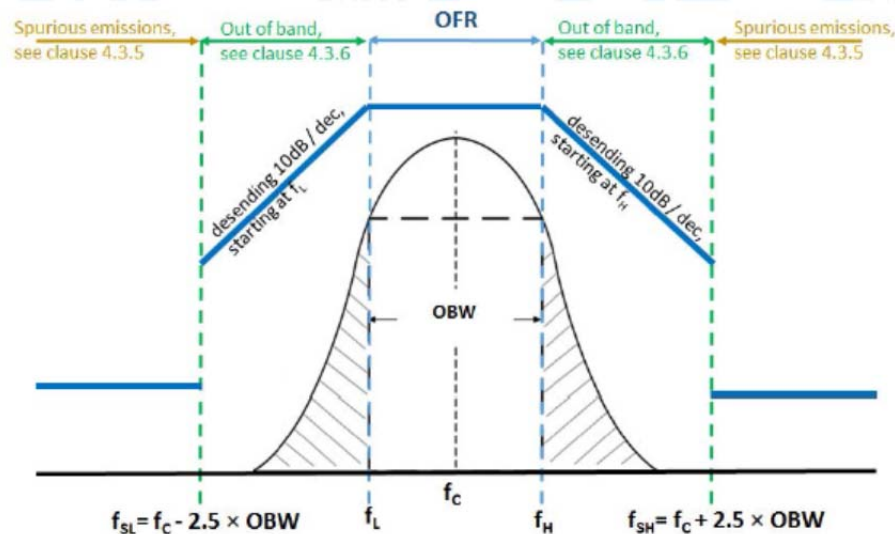


Figure 4: Out of band and spurious domain of a single frequency WPT system

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 ($f < f_{SL}$ and $f > f_{SH}$).

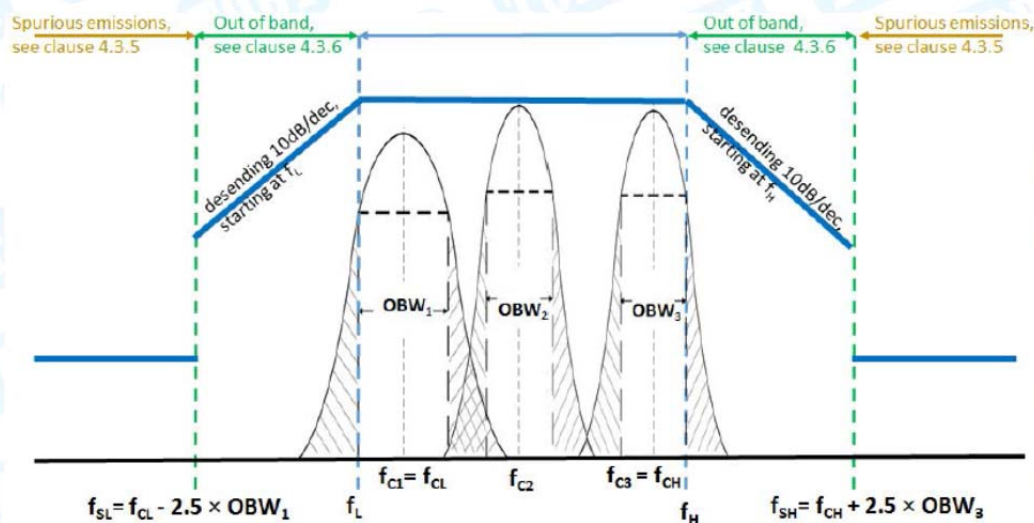
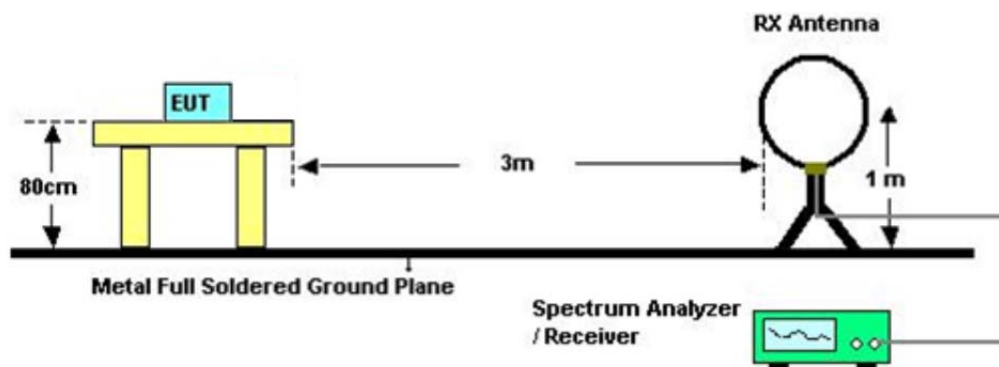


Figure 5: Out of band and spurious domain of a multi - frequency system (during one WPT system cycle time)

7.2 Test Setup



7.3 Test Procedure

The method of measurement in clause 6.2.1 of ETSI EN 303 417 V1.1.1

7.4 EUT Operation During Test

The measurements shall be performed during continuously transmitting.

7.5 Test Data

Please refer to the Attachment D.

8 WPT System Unwanted Conducted Emissions

8.1 Test Standard and Limit

8.1.1 Test Standard

ETSI EN 303 417 V1.1.1:2017 clause 4.3.7

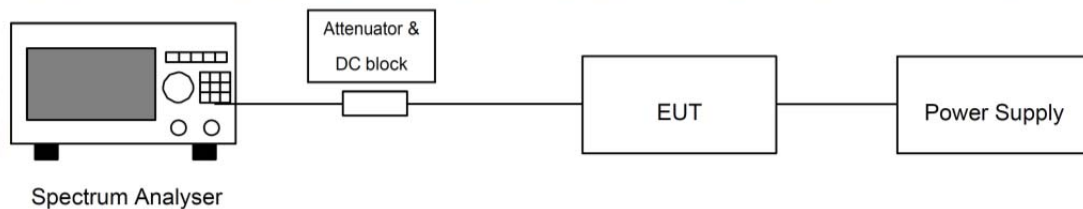
8.1.2 Limit

WPT system unwanted conducted emission

The common mode current (I_{CM}) between 1 MHz and 30 MHz shall not exceed the following limit: $I_{CM} = 47 - 8 \times \log(f)$ dB μ A

Note: f is frequency in MHz.

8.2 Test Setup



8.3 Test Procedure

The method of measurement in clause 6.2.4 of ETSI EN 303 417 V1.1.1

8.4 EUT Operating Condition

The EUT was programmed to be in transmitting mode.

8.5 Test Data

This requirement is not applicable.

The cable to the primary coil is less than 3 m.

9 Receiver Blocking

9.1 Test Standard and Limit

9.1.1 Test Standard

ETSI EN 303 417 V1.1.1:2017 clause 4.4.2

9.1.2 Limits

Suprious emissions and cabinet radiation_receiver

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 dB μ A/m	72 dB μ A/m	82 dB μ A/m

NOTE: $F = \text{OFR}$ see clause 4.3.3.

9.2 Test Setup

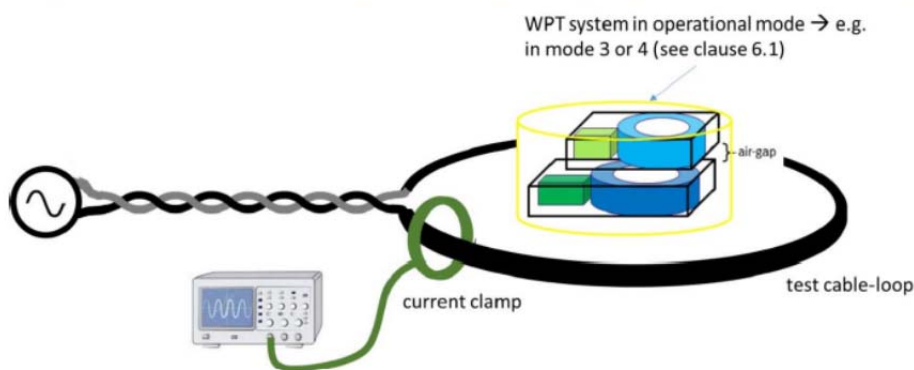


Figure 11: Schematic test set-up for the RX-blocking test

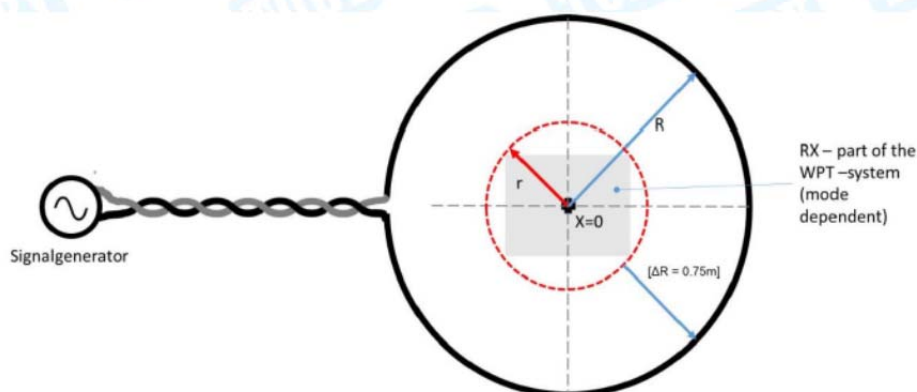


Figure 12: Schematic test set-up for the RX-blocking test

9.3 Test Procedure

The method of measurement in clause 6.3.2 of ETSI EN 303 417 V1.1.1.

9.4 EUT Operating Condition

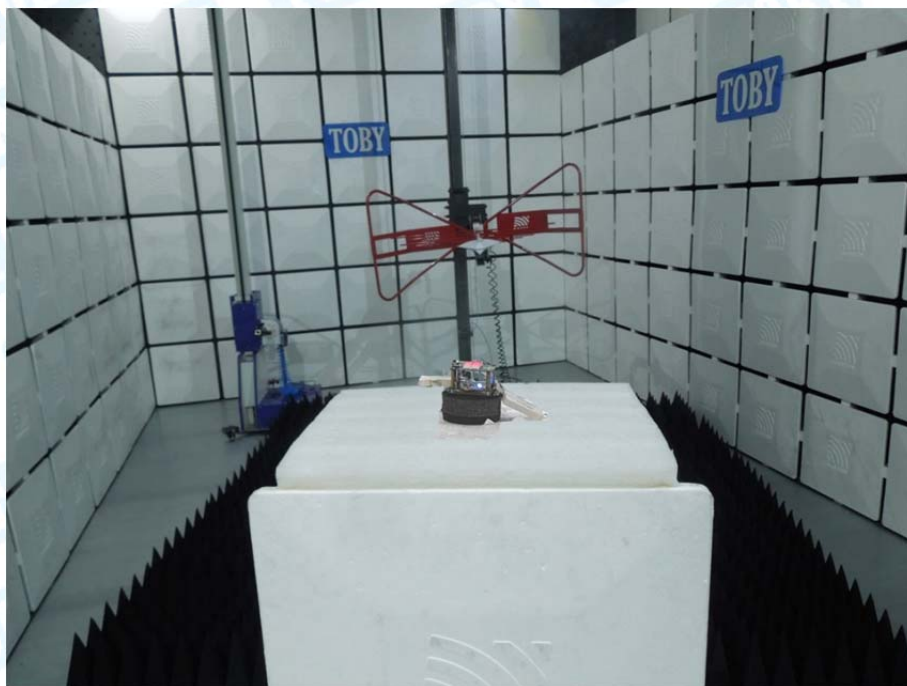
The measurements shall be performed during continuously receiving.

9.5 Test Data

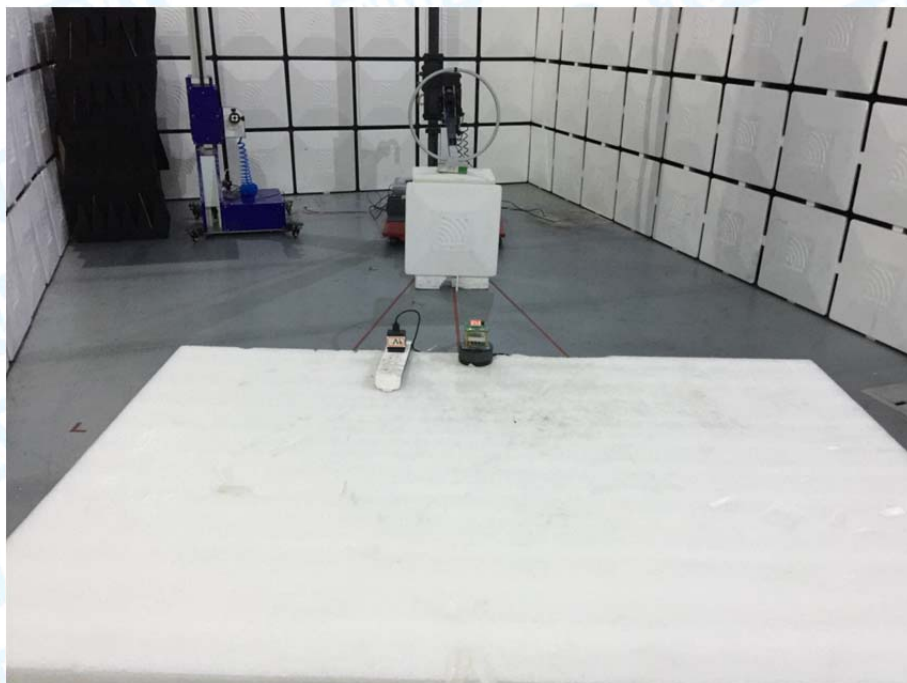
Please refer to the Attachment E.

10Photographs – Test Setup

Radiated Spurious Emission (30MHz~1GHz)



Radiated Spurious Emission (9KHz~30MHz)

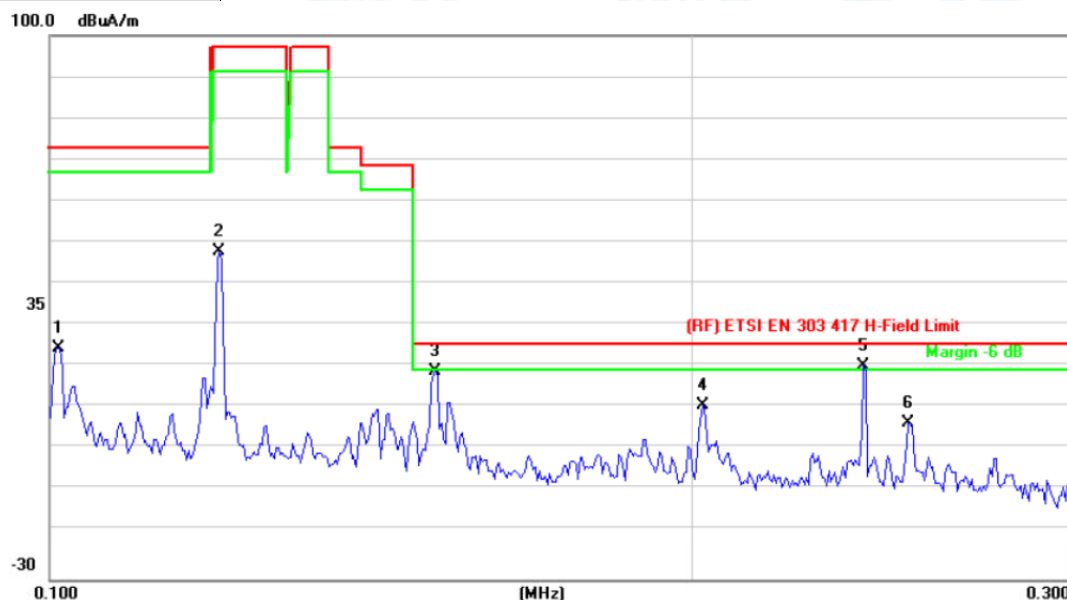


Attachment A--Operating Frequency Ranges

Test Mode :	TX Mode	
Test Conditions	Frequency range (KHz)	
	100 kHz~300 kHz	
Tnom, Vnom	112.3580	205.7680
Tmin, Vmin	112.3690	205.7620
Tmin, Vmax	112.3720	205.7640
Tmax, Vmin	112.3760	205.7630
Tmax, Vmax	112.3748	205.7570
Min. fL / Max. fH Band Edges	112.3580	205.7680
Limits	fL >100 KHz	fH < 300 KHz
Result	PASS	

Attachment B--H-field Requirements

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 230V/50Hz		
Ant. Pol.	Ant 0°		
Test Mode:	TX Mode		
Remark:	Only showed the worst mode test data.		

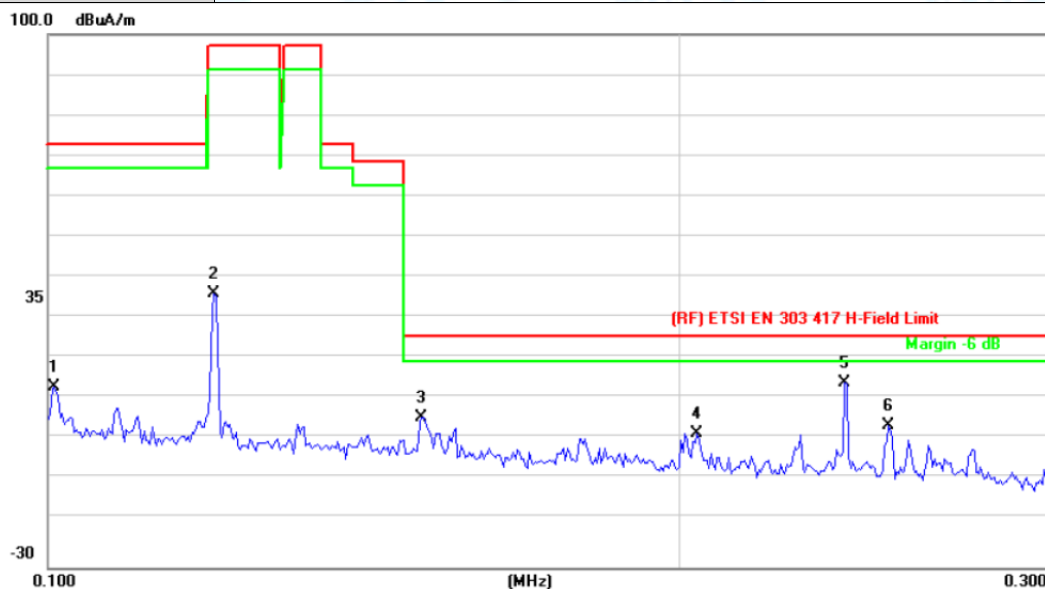


No.	Mk.	Freq. MHz	Reading Level dBuA/m	Correct Factor dB	Measure- ment dBuA/m	Limit dBuA/m	Over dB	Detector
1		0.1008	29.41	-3.96	25.45	73.30	-47.85	peak
2		0.1200	53.03	-4.69	48.34	97.30	-48.96	peak
3		0.1515	25.66	-5.86	19.80	26.30	-6.50	peak
4		0.2020	19.39	-7.65	11.74	26.30	-14.56	peak
5	*	0.2403	29.14	-7.93	21.21	26.30	-5.09	peak
6		0.2522	15.56	-8.02	7.54	26.30	-18.76	peak

Emission Level= Read Level+ Correct Factor

Note: $H_{3m}=H_{10m}+C_3$ refer to ETSI EN300 330 Annex H.2

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 230V/50Hz		
Ant. Pol.	Ant 90°		
Test Mode:	TX Mode		
Remark:	Only showed the worst mode test data.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuA/m	dB	dBuA/m	dBuA/m	dB	Detector
1		0.1007	17.94	-3.96	13.98	73.30	-59.32	peak
2		0.1200	41.42	-4.69	36.73	97.30	-60.57	peak
3		0.1508	12.50	-5.83	6.67	26.30	-19.63	peak
4		0.2041	10.48	-7.67	2.81	26.30	-23.49	peak
5	*	0.2403	22.99	-7.93	15.06	26.30	-11.24	peak
6		0.2522	12.56	-8.02	4.54	26.30	-21.76	peak

Emission Level= Read Level+ Correct Factor

Note: $H_{3m}=H_{10m}+C_3$ refer to ETSI EN300 330 Annex H.2

Attachment C-- Transmitter Spurious Emissions

(1) 9KHz~30MHz

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 230V/50Hz		
Ant. Pol.	Ant 0°(9k-150kHz)		
Test Mode:	TX Mode		
Remark:	Only showed the worst mode test data.		

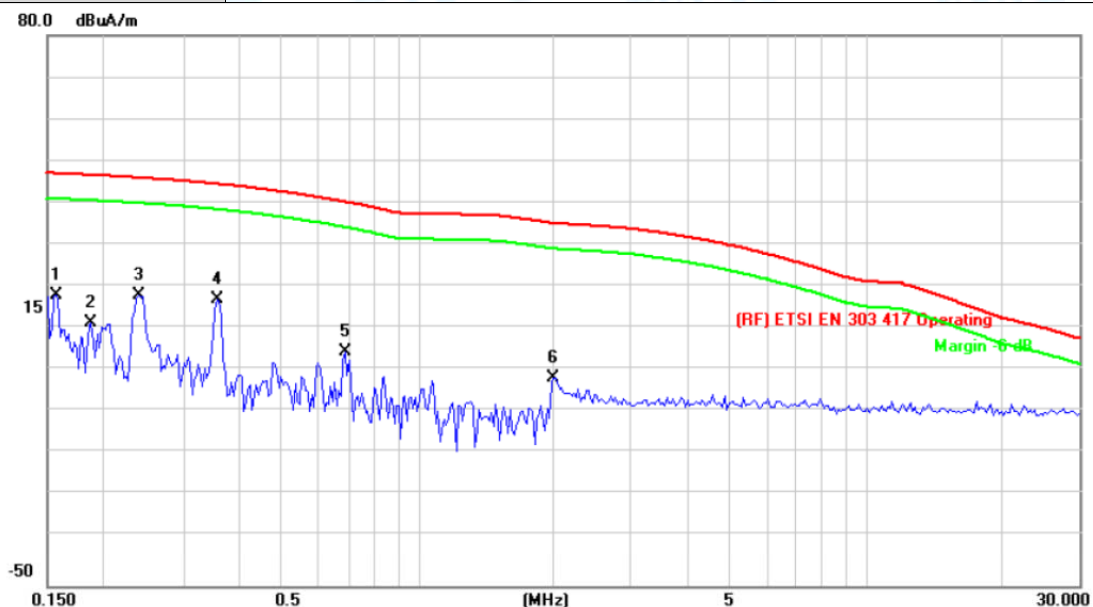


No.	Mk.	Freq. MHz	Reading Level dBuA/m	Correct Factor dB	Measure- ment dBuA/m	Limit dBuA/m	Over dB	Detector
1		0.0120	36.61	-10.34	26.27	57.05	-30.78	peak
2		0.0240	29.70	-10.09	19.61	54.15	-34.54	peak
3		0.0351	31.23	-9.98	21.25	52.56	-31.31	peak
4		0.0504	38.03	-10.07	27.96	51.05	-23.09	peak
5		0.1012	22.71	-3.97	18.74	48.16	-29.42	peak
6	*	0.1204	46.08	-4.70	41.38	47.85	-6.47	peak

Emission Level= Read Level+ Correct Factor

Note: $H_{3m}=H_{10m}+C_3$ refer to ETSI EN300 330 Annex H.2

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 230V/50Hz		
Ant. Pol.	Ant 0°(150kHz-30MHz)		
Test Mode:	TX Mode		
Remark:	Only showed the worst mode test data.		

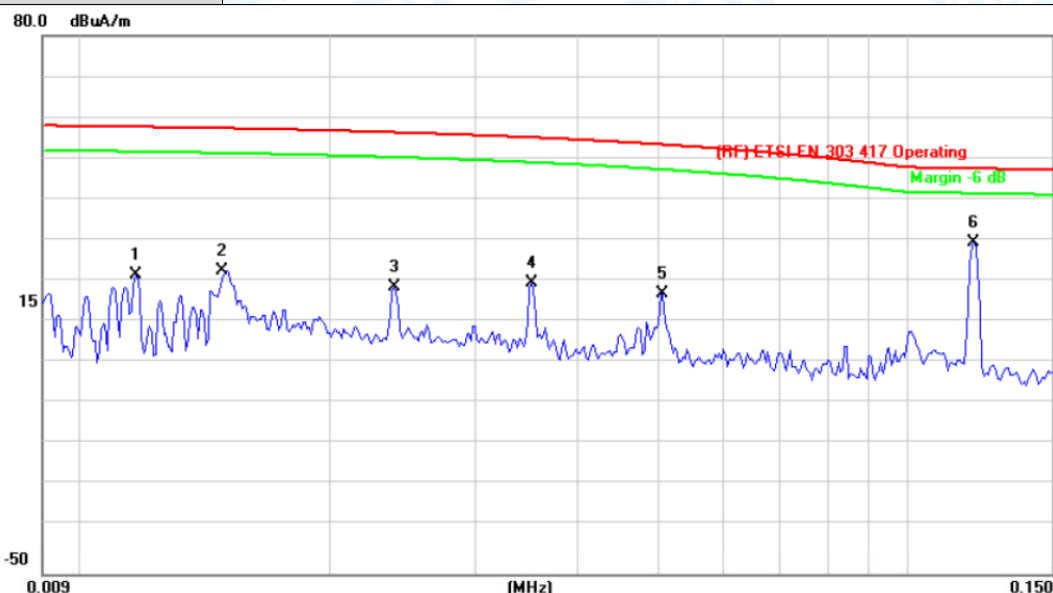


No.	Mk.	Freq. MHz	Reading Level dBuA/m	Correct Factor dB	Measure- ment dBuA/m	Limit dBuA/m	Over dB	Detector
1		0.1565	24.70	-6.04	18.66	47.38	-28.72	peak
2		0.1874	19.29	-7.19	12.10	47.06	-34.96	peak
3		0.2391	26.62	-7.93	18.69	46.40	-27.71	peak
4	*	0.3577	26.40	-8.74	17.66	44.95	-27.29	peak
5		0.6899	15.48	-9.98	5.50	40.78	-35.28	peak
6		2.0119	9.69	-10.41	-0.72	35.70	-36.42	peak

Emission Level= Read Level+ Correct Factor

Note: $H_{3m}=H_{10m}+C_3$ refer to ETSI EN300 330 Annex H.2

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 230V/50Hz		
Ant. Pol.	Ant 90°(9k-150kHz)		
Test Mode:	TX Mode		
Remark:	Only showed the worst mode test data.		

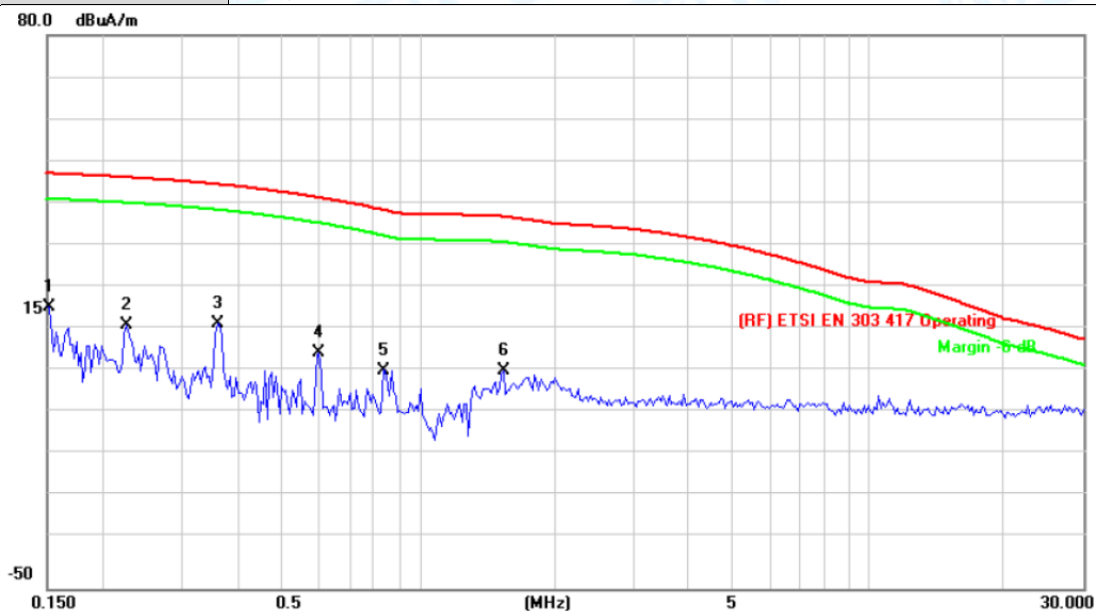


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuA/m	dB	dBuA/m	dBuA/m	dB Detector
1		0.0117	32.59	-10.37	22.22	57.16	-34.94 peak
2		0.0149	33.72	-10.39	23.33	56.14	-32.81 peak
3		0.0240	29.60	-10.09	19.51	54.15	-34.64 peak
4		0.0350	30.26	-9.97	20.29	52.57	-32.28 peak
5		0.0505	27.80	-10.07	17.73	51.04	-33.31 peak
6	*	0.1203	34.76	-4.70	30.06	47.85	-17.79 peak

Emission Level= Read Level+ Correct Factor

Note: $H_{3m}=H_{10m}+C_3$ refer to ETSI EN300 330 Annex H.2

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 230V/50Hz		
Ant. Pol.	Ant 90°(150kHz-30MHz)		
Test Mode:	TX Mode		
Remark:	Only showed the worst mode test data.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuA/m	dB	dBuA/m	dBuA/m	dB	Detector
1	*	0.1516	22.08	-5.86	16.22	47.44	-31.22	peak
2		0.2244	19.85	-7.81	12.04	46.59	-34.55	peak
3		0.3577	20.92	-8.74	12.18	44.95	-32.77	peak
4		0.6011	15.24	-9.84	5.40	41.88	-36.48	peak
5		0.8349	11.50	-10.15	1.35	38.95	-37.60	peak
6		1.5436	11.37	-10.34	1.03	37.36	-36.33	peak

Emission Level= Read Level+ Correct Factor

Note: $H_{3m}=H_{10m}+C_3$ refer to ETSI EN300 330 Annex H.2

(2) Below 1G

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 230V/50Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX Mode		
Remark:	Only showed the worst mode test data.		

-20.0 dBm

(RF) ETSI EN 303417

Margin -6 dB

-70

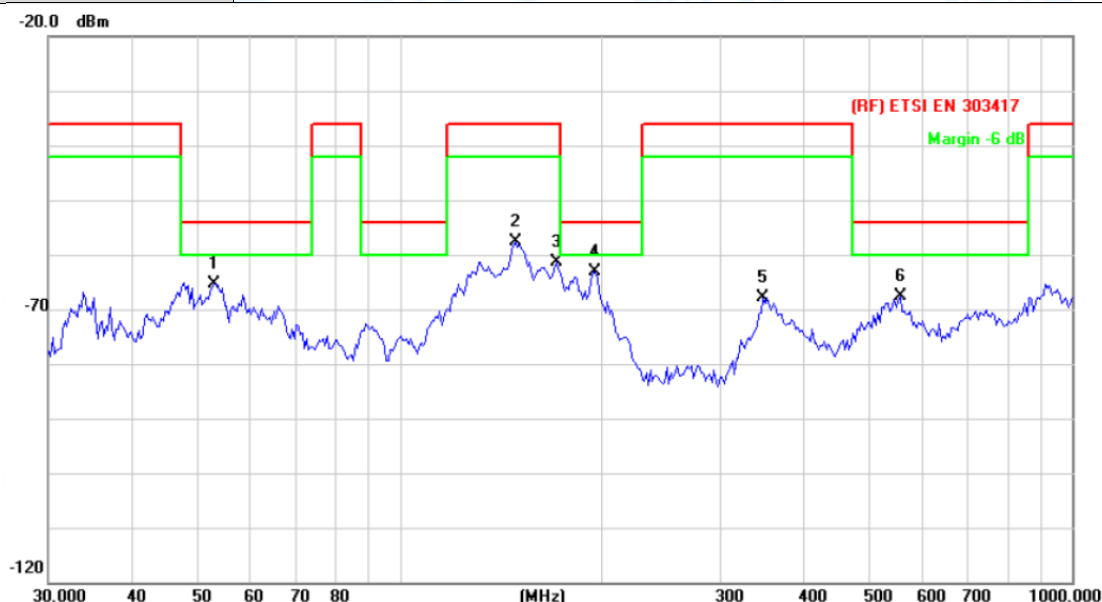
-120

30.000 40 50 60 70 80 (MHz) 300 400 500 600 700 1000.000

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBm	dB	dBm	dBm	dB
1		126.3286	-52.77	-11.29	-64.06	-36.00	-28.06
2		150.5378	-54.86	-9.53	-64.39	-36.00	-28.39
3	*	195.1365	-60.01	-7.38	-67.39	-54.00	-13.39
4		349.2500	-59.86	-6.14	-66.00	-36.00	-30.00
5		554.8254	-70.98	-0.21	-71.19	-54.00	-17.19
6		925.7563	-71.12	6.70	-64.42	-36.00	-28.42

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 230V/50Hz		
Ant. Pol.	Vertical		
Test Mode:	TX Mode		
Remark:	Only showed the worst mode test data.		



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector
1		52.9453	-49.36	-16.00	-65.36	-54.00	-11.36	peak
2		148.4410	-50.56	-7.11	-57.67	-36.00	-21.67	peak
3		170.7926	-54.28	-7.04	-61.32	-36.00	-25.32	peak
4	*	195.1365	-55.79	-7.37	-63.16	-54.00	-9.16	peak
5		346.8092	-66.90	-0.91	-67.81	-36.00	-31.81	peak
6		554.8254	-71.64	4.07	-67.57	-54.00	-13.57	peak

Emission Level= Read Level+ Correct Factor

Attachment D-- Transmitter out of band (OOB) Emissions

No.	Frequency (MHz)	Result@3m (dBuA/m)	C ₃ (dB)	Result@10 (dBuA/m)	Limit@10 (dBuA/m)	Margin (dB)	Remark
1	F _{CL} -2.5 x OBW ₁	-23.98	31.2	-55.18	41.76	-96.94	peak
2	F _L	-19.26	31.2	-50.46	42	-92.46	peak
3	F _H	-18.54	31.2	-49.74	-5	-44.74	peak
4	F _{CH} +2.5 x OBW ₃	-24.62	31.2	-55.82	-5.23	-50.59	peak

Attachment E-- Blocking

Temperature :	26°C	Relative Humidity :	60%
Pressure :	1010 hPa	Test Voltage :	AC 230V/50Hz
Test Mode :	Receive Mode		
Test Frequency	Blocking Signal(dBuA/m)	Performance Criterion	Result
fc -10 ×OFR	82	without degradation of performance	PASS
Fc	72	without degradation of performance	PASS
Fc+OFR	72	without degradation of performance	PASS
fc +10 ×OFR	82	without degradation of performance	PASS

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