

RADIO COMMUNICATIONS AND EMC TESTING REPORT

I.R.I.S.S.A.

Model: IRIScan™ Anywhere 3 Wifi
Additional Model: IRIScan™ Anywhere 5 Wifi

Portable Auto Feed Scanner

2.4GHz Transceiver

Test Report: 161228033SZN-002

Test Engineer :	Jackson Yang Engineer	Sign On File
Report Approved By :	Sunny Zhou Project Engineer	
Date :	10 January 2017	

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TRF No.: ETSI EN300328_c

Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch

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RADIO PERFORMANCE MEASUREMENTS

RESULT SUMMARY

Requirements	ETSI EN 300 328		Condition	Compliance
	Technical requirements	Test Specification		
	Clause Number			
RF Output Power	4.3.2.2	5.3.2		Complied
Power Spectral Density	4.3.2.3	5.3.3	Only for modulations other than FHSS	Complied
Duty cycle, Tx-Sequence, Tx-gap	4.3.2.4	5.3.2	Only for non-adaptive equipment and RF Output Power>10dBm	N/A
Medium Utilisation	4.3.2.5	5.3.2	Only for non-adaptive equipment and RF Output Power>10dBm	N/A
Adaptivity	4.3.2.6	5.3.7	Only for adaptive equipment and RF Output Power>10dBm	N/A
Occupied Channel Bandwidth	4.3.2.7	5.3.8		Complied
Transmitter unwanted emission in the OOB domain	4.3.2.8	5.3.9		Complied
Transmitter unwanted emission in the spurious domain	4.3.2.9	5.3.10		Complied
Receiver spurious emissions	4.3.2.10	5.3.11		Complied
Receiver Blocking	4.3.2.11	5.3.7	Only for adaptive equipment and RF Output Power>10dBm	N/A
Geo-location capability	4.3.2.12	N/A	Only applies to equipment with geo-location capability	N/A
Technical requirements for FHSS modulation	4.3.1	5.3	Only for FHSS	N/A
When determining the test conclusion, the Measurement Uncertainty of test has been considered. Note: N/A means Not apply.				

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EMC COMPLIANCE MEASUREMENTS RESULT SUMMARY

	ETSI EN 301 489-17	ETSI EN 301 489-1	Compliance
	Clause Number		
EMC Emission	7.1	8.2 8.4	Complied
Harmonic Current Emission (AC Mains Power Input Port)	7.1	8.5	Complied
Voltage Fluctuations and Flicker (AC Mains Power Input Port)	7.1	8.6	Complied
Electrostatic Discharge	7.2	9.3	Complied
Radio Frequency Electromagnetic Field(80MHz-1GHz & 1.4GHz-2.7GHz)	7.2	9.2	Complied
Fast Transients	7.2	9.4	Complied
Surges	7.2	9.8	Complied
Conducted RF Immunity	7.2	9.5	Complied
Voltage Dips & Interruptions	7.2	9.7	Complied
When determining the test conclusion, the Measurement Uncertainty of test has been considered.			

EQUIPMENT UNDER TEST (EUT) INFORMATION

Applicant:	I.R.I.S.S.A. Rue du Bosquet 10, 1348 Louvain-La-Neuve, Belgium
Description of EUT:	Portable Auto Feed Scanner
Model Number:	IRIScan™ Anywhere 3 Wifi
Additional Model(s):	IRIScan™ Anywhere 5 Wifi
Brand Name(s):	N/A
Serial Number (s):	Not Labelled
Software Version	V1.0.00.017_1ST
Hardware Version	EP-TSN48WFVCMB-02
Equipment Received:	14 April 2016
Test Date (s):	14 April 2016 to 24 April 2016
WiFi Version:	802.11b, 802.11g, 802.11n-HT20, 802.11n-HT40
Test Site and Location:	Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch (CNAS Registration Number: L4122) 6/F., Block D, Huahan Building, Langshan Road, Nanshan District, Shenzhen, China
Test Specification (s):	ETSI EN 300 328 V1.9.1 (2015-02) ETSI EN 301 489-1 V1.9.2 (2011-09) ETSI EN 301 489-17 V2.2.1 (2012-09)

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EXHIBIT 1

GENERAL DESCRIPTION

1 INTRODUCTION

Intertek Testing Services Shenzhen Limited (Intertek) has tested the I.R.I.S.S.A. IRIScan™ Anywhere 3 Wifi Portable Auto Feed Scanner. The sample was tested to the relevant performance specification published by the European Telecommunications Standards Institute. This report contains the results of these tests and is submitted to I.R.I.S.S.A. as the final test results.

The production units are required to conform to the initial sample as received when the units are placed on the market.

This report bases on the previous report with report number 160414019SZN-003 dated 26 April 2016 (original signature Sunny Zhou, Hardy Suo on the file), due to add the new model in this report, no additional test after engineering evaluation.

The Model: IRIScan™ Anywhere 5 Wifi are the same as the Model: IRIScan™ Anywhere 3 Wifi in hardware aspect. The difference in model number serves as marketing strategy.

1.1 Product Information (Information as required by ETSI EN 300 328 V1.9.1 (2015-02), clause 5.3.1)

In accordance with ETSI EN 300 328 V1.9.1 (2015-02), clause 5.3.1, the following information is provided by the supplier.

a) The type of modulation used by the equipment:	☐ FHSS ☒ Other forms of modulation	
b) In case of FHSS modulation:	• In case of Non-Adaptive Frequency Hopping equipment: The number of Hopping Frequencies: _____ • In case of Adaptive Frequency Hopping Equipment: The maximum number of Hopping Frequencies: _____ The minimum number of Hopping Frequencies: _____ • The (average) Dwell Time: _____ ms Maximum	
c) Adaptive / non-adaptive equipment:	☐ Non-adaptive Equipment ☒ Adaptive Equipment without the possibility to switch to a non-adaptive mode ☐ Adaptive Equipment which can also operate in a non-adaptive mode	
d) In case of adaptive equipment:	The maximum Channel Occupancy Time implemented by the equipment: _____ ms ☒ The equipment has implemented an LBT based DAA mechanism • In case of equipment using modulation different from FHSS: ☐ The equipment is Frame Based equipment ☐ The equipment is Load Based equipment ☐ The equipment can switch dynamically between Frame Based and Load Based equipment The CCA time implemented by the equipment: _____ μs ☐ The equipment has implemented an non-LBT based DAA mechanism ☐ The equipment can operate in more than one adaptive mode	
e) In case of non-adaptive equipment:	The maximum RF Output Power (e.i.r.p.): _____ dBm The maximum (corresponding) Duty Cycle: _____ % Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared): _____	

f) The worst case operational mode for each of the following tests:	• RF Output Power: <u>GFSK</u>	
	• Power Spectral Density: <u>GFSK</u>	
	• Duty cycle, Tx-Sequence, Tx-gap: <u>N/A</u>	
	• Accumulated Transmit time, Frequency Occupation & Hopping Sequence (only for FHSS equipment): <u>GFSK</u>	
	• Hopping Frequency Separation (only for FHSS equipment): <u>N/A</u>	
	• Medium Utilisation: <u>N/A</u>	
	• Adaptivity & Receiver Blocking: <u>N/A</u>	
	• Nominal Channel Bandwidth: <u>GFSK</u>	
	• Transmitter unwanted emissions in the OOB domain: <u>GFSK</u>	
	• Transmitter unwanted emissions in the spurious domain: <u>GFSK</u>	
	• Receiver spurious emissions: <u>GFSK</u>	
g) The different transmit operating modes (tick all that apply):	☒ Operating mode 1: Single Antenna Equipment	☒ Equipment with only one antenna
		☐ Equipment with two diversity antennas but only one antenna active at any moment in time
		☐ Smart Antenna Systems with two or more antennas, but operating in a (legacy) mode where only one antenna is used. (e.g. IEEE 802.11™ [i.3] legacy mode in smart antenna systems)
	☐ Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming	☐ Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)
		☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1
		☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2
	☐ Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming	☐ Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode)
		☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1
		☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2
h) In case of Smart Antenna Systems:	• The number of Receive chains: <u>1</u>	☐ symmetrical power distribution
	• The number of Transmit chains: <u>1</u>	☐ asymmetrical power distribution
		In case of beam forming, the maximum (additional) beam forming gain: dB
i) Operating Frequency Range(s) of the equipment:	• Operating Frequency Range 1: <u>2412MHz</u> to <u>2472 MHz</u>	
	• Operating Frequency Range 2: <u> </u> MHz to <u> </u> MHz	
j) Nominal Channel Bandwidth(s):	• Nominal Channel Bandwidth 1: <u> </u> MHz	
	• Nominal Channel Bandwidth 2: <u> </u> MHz	
k) Type of Equipment (stand-alone,	☒ Stand-alone	
	☐ Combined Equipment (Equipment where the radio part is fully integrated	

combined, plug-in radio device, etc.):	within another type of equipment)			
	☐ Plug-in radio device (Equipment intended for a variety of host systems)			
	☐ Other: _____			
l) The extreme operating conditions that apply to the equipment:	Operating temperature range: <u>-10</u> ° C to <u>55</u> ° C			
	Details provided are for the:	☒ stand-alone equipment		
		☐ combined (or host) equipment		
☐ test jig				
m) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding e.i.r.p levels:	• Antenna Type:			
	☒ Integral Antenna	Antenna Gain: <u>1</u> dBi		
		If applicable, additional beamforming gain (excluding basic antenna gain): _____ dB		
		☐ Temporary RF connector provided		
	☐ Dedicated Antennas (equipment with antenna connector)	☐ No temporary RF connector provided		
☐ Single power level with corresponding antenna(s)				
☐ Multiple power settings and corresponding antenna(s) Number of different Power Levels: _____ Power Level 1: _____ dBm Power Level 2: _____ dBm Power Level 3: _____ dBm Note: These power levels are conducted power levels (at antenna connector).				
• For each of the Power Levels, provide the intended antenna assemblies, their corresponding gains (G) and the resulting e.i.r.p. levels also taking into account the beamforming gain (Y) if applicable				
m) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding e.i.r.p levels:	Power Level 1: _____ dBm			
	Number of antenna assemblies provided for this power level:			
	Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
	1			
	2			
	3			
	4			
	Power Level 2: _____ dBm			
	Number of antenna assemblies provided for this power level:			
	Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
	1			
	2			
	3			
	4			

	Power Level 3: ____ dBm		
	Number of antenna assemblies provided for this power level: ____		
	Assembly #	Gain (dBi)	e.i.r.p. (dBm)
	1		
	2		
	3		
	4		

n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices:	Details provided are for the:	☒ stand-alone equipment ☐ combined (or host) equipment ☐ test jig
	Supply Voltage	☒ AC mains State AC voltage <u>100-240</u> V ☐ DC State DC voltage _____ V In case of DC, indicate the type of power source ☐ Internal Power Supply ☒ External Power Supply or AC/DC adapter ☐ Battery ☐ Other: _____
o) Describe the test modes available which can facilitate testing:	N/A	
p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], IEEE 802.15.4™ [i.4], proprietary, etc.):	IEEE 802.11™	
q) If applicable, the statistical analysis referred to in clause 5.3.1 q)	N/A	
r) If applicable, the statistical analysis referred to in clause 5.3.1 r)	N/A	
s) Geo-location capability supported by the equipment:	☐ Yes	☐ The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user.
	☒ No	

2 TEST SPECIFICATION

2.1 RELEVANT PERFORMANCE SPECIFICATION

The relevant performance specification for I.R.I.S.S.A. IRIScan™ Anywhere 3 Wifi Portable Auto Feed Scanner is ETSI EN 300 328 V1.9.1 (2015-02). The harmonised standards are ETSI EN 300 328 V1.9.1 (2015-02), ETSI EN 301 489-17 V2.2.1 (2012-09) and ETSI EN 301 489-1 V1.9.2 (2011-09).

The tests performed are those required to demonstrate compliance with the technical specifications and the essential requirements of Article 3.1(b) and 3.2 of the Radio Equipment and Telecommunications Terminal Equipment Directive (1999/5/EC) - R&TTE or Radio Equipment Directive (2014/53/EU) - RED for regulatory purposes.

2.2 TEST ENVIRONMENT

The tests were performed in the Radio communications and Electromagnetic Compatibility Test Facility at Intertek Testing Services Shenzhen Limited Kejiyuan Branch. The sample was subjected to the ambient conditions in the laboratory and indoor test site except during tests at extremes of temperatures and the Radiated Emissions Tests. The temperature and relative humidity recorded during the period of each test are given in the results.

2.3 CONFIGURATION OF TEST SAMPLE

The test sample consisted of one transceiver and under manufacturer's specified test mode, only the worst case data were reported.

2.4 TEST POWER SOURCES

The Portable Auto Feed Scanner is intended to operate from Rechargeable battery DC 3.7V and charged by Adapter. The test power source voltages were:

Nominal test voltage AC 230V or DC 3.7V

2.5 TEST FREQUENCIES

For 802.11b/g and n-HT20 the sample supplied operated on 13 channels, nominally at 2.412 - 2.472 GHz and for 802.11n-HT40 the sample supplied operated on 9 channels, nominally at 2.422 - 2.462 GHz for Transceiver. The channel is separated by 5 MHz channel

2.6 GENERAL REQUIREMENTS

2.6.1 MODULATION

1. Other Types of Wide Band Modulation (DSSS)
2. Constant envelope digital frequency modulation is used with CCK / OFDM technique,
3. The product is a Product Description with WiFi IEEE 802.11b/g/n radio functions.

2.6.2 ANTENNA

The antenna used in Transceiver is permanent Integrate antenna.

2.7 MEASUREMENT UNCERTAINTY

All measurement uncertainties stated in this report are estimated to a 95% confidence level.

2.8 SUPPORT EQUIPMENT – RADIO PERFORMANCE MEASUREMENTS

Description	Manufacturer	Model No.
N/A	N/A	N/A

2.9 SUPPORT EQUIPMENT – EMC COMPLIANCE MEASUREMENTS

Description	Manufacturer	Model No.
Laptop	Lenovo	T420
Hard Disk	Smart.drive	HD-001
TF Card(2G)	SanDisk	N/A
USB cable(120CM)	N/A	N/A
Desktop	HP	AJ411AV
Shielding USB cable(100CM)	N/A	N/A

2.10 PERFORMANCE CRITERIA

2.10.1 PERFORMANCE CRITERIA FOR CONTINUOUS PHENOMENA (CT & CR)

Criteria	During test	After test
A	Shall operate as intended. May show degradation of performance (see note 1). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance (see note 2). Shall be no loss of function. Shall be no loss of stored data or user programmable functions.
B	May show loss of function (one or more). May show degradation of performance (see note 1). No unintentional transmissions.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2). Shall be no loss of stored data or user programmable functions.
C	May be loss of function (one or more).	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2).

NOTE 1: Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 2: No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and

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documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.
--

2.10.2 Performance criteria for Continuous phenomena applied to Transmitters (CT)

The performance criteria A shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an ACKnowledgement (ACK) or Not ACKnowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

2.10.3 Performance criteria for Transient phenomena applied to Transmitters (TT)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) or not-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

2.10.4 Performance criteria for Continuous phenomena applied to Receivers (CR)

The performance criteria A shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

2.10.5 Performance criteria for Transient phenomena applied to Receivers (TR)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration for which performance criteria C shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

EXHIBIT 2

TEST RESULT OF RADIO PERFORMANCE MEASUREMENTS

3 RF Output Power

3.1 TEST METHOD AND SUMMARY

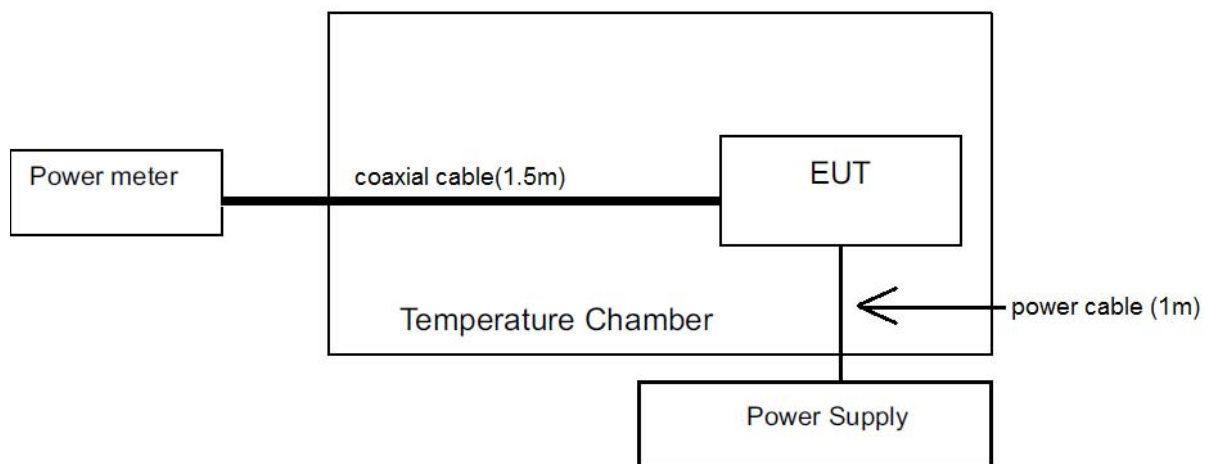
Basic Standard :	ETSI EN 300 328 V1.9.1 (2015-02)
Clause :	5.3.2
Test method	Conducted measurements

3.2 EQUIPMENT LIST

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
SZ016-12	Temperature & Humidity Chamber	Terchy	MHK-120NK	23-Jan-2016	23-Jan-2017
SZ070-24	Open Switch and Control Unit with TS8997 option for power measurement test	R&S	OSP120+B157	3-Nov-2015	3-Nov-2016
SZ182-02-01	Pulse Power Sensor	Anritsu	MA2411B	20-May-2015	20-May-2016
SZ182-02	RF Power Meter	Anritsu	ML2496A	20-May-2015	20-May-2016
SZ006-12	AC Power Source	APC	AFC-11005GS	3-Nov-2015	3-Nov-2016
SZ006-05	DC Power Source	Gu Wei Electronics	GPS-3030DD	23-Mar-2016	23-Sep-2016
SZ062-27	RF cable	BELDEN	SYV50	3-Nov-2015	3-Nov-2016

3.3 TEST SETUP

3.3.1 Test Setup of Conducted measurements



3.4 WORSE CASE TEST RESULT

Worst Case data
(802.11b)

Test Conditions			Measured Power (dBm)	Limit (dBm)	Margin (dB)
Temperature (°C) Humidity (%)	Voltage (VAC)	Channel			
Ambient	V AC nom 230V	Channel 1	8.12	20	-11.88
T _{min} -20°C	V AC nom 230V		8.13	20	-11.87
H _{min} 0%			8.13	20	-11.87
T _{max} 55°C	V AC nom 230V		8.05	20	-11.95
H _{max} 50%			8.03	20	-11.97
Ambient	V AC nom 230V	Channel 7	8.21	20	-11.79
T _{min} -20°C	V AC nom 230V		8.19	20	-11.81
H _{min} 0%			8.18	20	-11.82
T _{max} 55°C	V AC nom 230V		8.18	20	-11.82
H _{max} 50%			8.17	20	-11.83
Ambient	V AC nom 230V	Channel 13	8.01	20	-11.99
T _{min} -20°C	V AC nom 230V		8.02	20	-11.98
H _{min} 0%			8.02	20	-11.98
T _{max} 55°C	V AC nom 230V		8.03	20	-11.97
H _{max} 50%			8.03	20	-11.97

- Notes:
1. Negative sign (-) in the margin column signify levels below the limit.
 2. Correction factor was compensated from the measured value.
 3. Measurement Uncertainty: $\pm 1.49\text{dB}$.
 4. Power setting and Power level in the test software provided by the client.

(802.11g)

Test Conditions			Measured Power (dBm)	Limit (dBm)	Margin (dB)
Temperature (°C) Humidity (%)	Voltage (VAC)	Channel			
Ambient	V AC nom 230V	Channel 1	7.99	20	-12.01
T _{min} -20°C	V AC nom 230V		7.95	20	-12.05
H _{min} 0%			7.77	20	-12.23
T _{max} 55°C	V AC nom 230V		7.91	20	-12.09
H _{max} 50%			7.91	20	-12.09
Ambient	V AC nom 230V	Channel 7	7.53	20	-12.47
T _{min} -20°C	V AC nom 230V		7.52	20	-12.48
H _{min} 0%			7.53	20	-12.47
T _{max} 55°C	V AC nom 230V		7.55	20	-12.45
H _{max} 50%			7.56	20	-12.44
Ambient	V AC nom 230V	Channel 13	7.31	20	-12.69
T _{min} -20°C	V AC nom 230V		7.28	20	-12.72
H _{min} 0%			7.33	20	-12.67
T _{max} 55°C	V AC nom 230V		7.34	20	-12.66
H _{max} 50%			7.35	20	-12.65

- Notes:
1. Negative sign (-) in the margin column signify levels below the limit.
 2. Correction factor was compensated from the measured value.
 3. Measurement Uncertainty: $\pm 1.49\text{dB}$.
 4. Power setting and Power level in the test software provided by the client.

(802.11n20)

Test Conditions			Measured Power (dBm)	Limit (dBm)	Margin (dB)
Temperature (°C) Humidity (%)	Voltage (VAC)	Channel			
Ambient	V AC nom 230V	Channel 1	6.93	20	-13.07
T _{min} -20°C	V AC nom 230V		6.95	20	-13.05
H _{min} 0%			6.98	20	-13.02
T _{max} 55°C	V AC nom 230V		6.98	20	-13.02
H _{max} 50%			6.93	20	-13.07
Ambient	V AC nom 230V	Channel 7	6.81	20	-13.19
T _{min} -20°C	V AC nom 230V		6.82	20	-13.08
H _{min} 0%			6.87	20	-13.13
T _{max} 55°C	V AC nom 230V		6.84	20	-13.16
H _{max} 50%			6.84	20	-13.16
Ambient	V AC nom 230V	Channel 13	6.77	20	-13.23
T _{min} -20°C	V AC nom 230V		6.78	20	-13.22
H _{min} 0%			6.72	20	-13.28
T _{max} 55°C	V AC nom 230V		6.73	20	-13.27
H _{max} 50%			6.75	20	-13.25

- Notes:
1. Negative sign (-) in the margin column signify levels below the limit.
 2. Correction factor was compensated from the measured value.
 3. Measurement Uncertainty: $\pm 1.49\text{dB}$.
 4. Power setting and Power level in the test software provided by the client.

(802.11n40)

Test Conditions			Measured Power (dBm)	Limit (dBm)	Margin (dB)
Temperature (°C) Humidity (%)	Voltage (VAC)	Channel			
Ambient	V AC nom 230V	Channel 3	6.92	20	-13.08
T _{min} -20°C	V AC nom 230V		6.87	20	-13.13
H _{min} 0%			6.85	20	-13.15
T _{max} 55°C	V AC nom 230V		6.77	20	-13.23
H _{max} 50%			6.52	20	-13.48
Ambient	V AC nom 230V	Channel 7	6.66	20	-13.34
T _{min} -20°C	V AC nom 230V		6.61	20	-13.39
H _{min} 0%			6.62	20	-13.38
T _{max} 55°C	V AC nom 230V		6.63	20	-13.37
H _{max} 50%			6.63	20	-13.37
Ambient	V AC nom 230V	Channel 11	6.42	20	-13.58
T _{min} -20°C	V AC nom 230V		6.44	20	-13.56
H _{min} 0%			6.45	20	-13.55
T _{max} 55°C	V AC nom 230V		6.52	20	-13.48
H _{max} 50%			6.48	20	-13.52

- Notes:
1. Negative sign (-) in the margin column signify levels below the limit.
 2. Correction factor was compensated from the measured value.
 3. Measurement Uncertainty: $\pm 1.49\text{dB}$.
 4. Power setting and Power level in the test software provided by the client.

4 Power Spectral Density

4.1 TEST METHOD AND SUMMARY

Basic Standard :	ETSI EN 300 328 V1.9.1 (2015-02)
Clause :	5.3.3
Test method	Conducted measurements

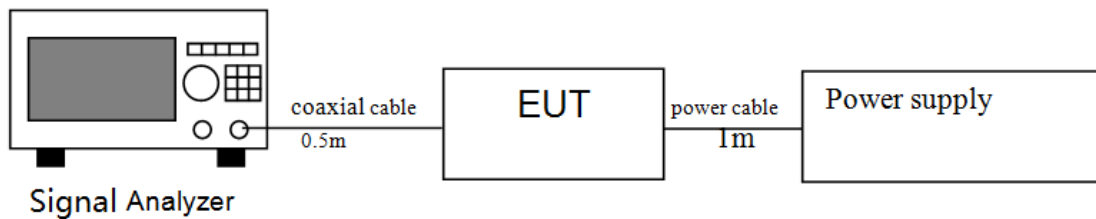
4.2 EQUIPMENT LIST

Serial No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
SZ056-06	Signal Analyzer	R&S	FSV40	8-Jul-2015	8-Jul-2016
SZ062-14	RF cable	BELDEN	RG59-BN	30-Dec-2015	30-Jun-2016

4.3 Limit for power spectrum density

For equipment using wide band modulations other than FHSS, the maximum Power Spectral Density is limited to 10 dBm per MHz.

4.4 TEST SETUP



4.5 Measuring instrument setting

Spectrum analyzer settings	
Spectrum Analyzer function	Setting
Start Frequency	2400MHz
Stop Frequency	2483.5MHz
Detector	RMS
RBW	10 kHz
VBW	30 kHz
Sweep	Auto couple
Trace	Max hold
Sweep points	> 8350
Attenuation	Auto

4.6 Worse Case Test results

(802.11b)

Channel	Frequency (MHz)	Measured Power Density (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Channel 1	2412	3.1	10	-6.9
Channel 7	2442	3.5	10	-6.5
Channel 13	2472	3.0	10	-7.0

(802.11g)

Channel	Frequency (MHz)	Measured Power Density (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Channel 1	2412	1.4	10	-8.6
Channel 7	2442	1.8	10	-8.2
Channel 13	2472	1.2	10	-8.8

(802.11n-HT20)

Channel	Frequency (MHz)	Measured Power Density (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Channel 1	2412	0.6	10	-9.4
Channel 7	2442	1.5	10	-8.5
Channel 13	2472	0.9	10	-9.1

(802.11n-HT40)

Channel	Frequency (MHz)	Measured Power Density (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Channel 3	2412	-0.2	10	-10.2
Channel 7	2437	-0.5	10	-10.5
Channel 11	2462	-0.7	10	-10.7

- Notes:
1. Negative sign (-) in the margin column signify levels below the limit.
 2. Measurement Uncertainty: ± 3.0 dB.
 3. Remark: Power setting and Power level in the test software provided by the client.

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5 Occupied Channel Bandwidth

5.1 TEST METHOD AND SUMMARY

Basic Standard :	ETSI EN 300 328 V1.9.1 (2015-02)
Clause :	5.3.8
Test method	Conducted measurements

5.2 EQUIPMENT LIST

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
SZ056-06	Signal Analyzer	R&S	FSV40	8-Jul-2015	8-Jul-2016
SZ062-14	RF cable	BELDEN	RG59-BN	30-Dec-2015	30-Jun-2016

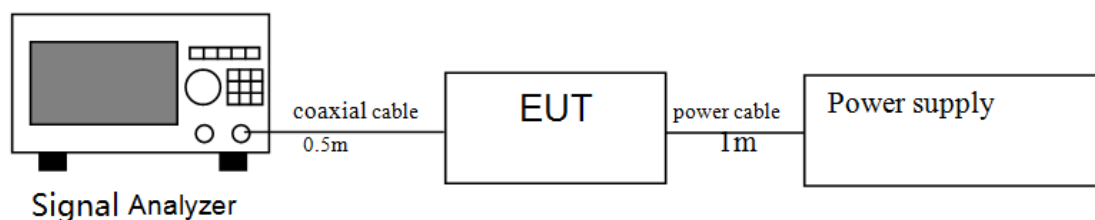
Note: Measurement Uncertainty: $\pm 5\%$.

5.3 Limit for occupied channel bandwidth

The Occupied Channel Bandwidth shall fall completely within the band given in 2.4 GHz to 2.4835 GHz.

For non-adaptive equipment using wide band modulations other than FHSS and with e.i.r.p greater than 10dBm, the Occupied Channel Bandwidth shall be less than 20MHz.

5.4 Test Setup



5.4 TEST RESULT

5.4.1 WORSE TEST RESULT - AC TEST VOLTAGE

(802.11b)

Frequency (MHz)	99% Bandwidth (MHz)	F _L at 99% BW (MHz)	F _H at 99% BW (MHz)	Result
2412	12.136	2406.012	2418.148	Pass
2472	12.136	2466.012	2478.148	Pass

(802.11g)

Frequency (MHz)	99% Bandwidth (MHz)	F _L at 99% BW (MHz)	F _H at 99% BW (MHz)	Result
2412	18.762	2403.457	2422.219	Pass
2472	19.641	2463.457	2483.098	Pass

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(802.11n-HT20)

Frequency (MHz)	99% Bandwidth (MHz)	F _L at 99% BW (MHz)	F _H at 99% BW (MHz)	Result
2412	16.926	2403.616	2420.542	Pass
2472	17.005	2463.616	2480.621	Pass

(802.11n-HT40)

Frequency (MHz)	99% Bandwidth (MHz)	F _L at 99% BW (MHz)	F _H at 99% BW (MHz)	Result
2422	36.567	2403.796	2440.363	Pass
2462	36.567	2443.796	2480.363	Pass

6 Transmitter unwanted emissions in the out-of-band domain

6.1 TEST METHOD AND SUMMARY

Basic Standard :	ETSI EN 300 328 V1.9.1 (2015-02)
Clause :	5.3.9
Test method	Conducted measurements

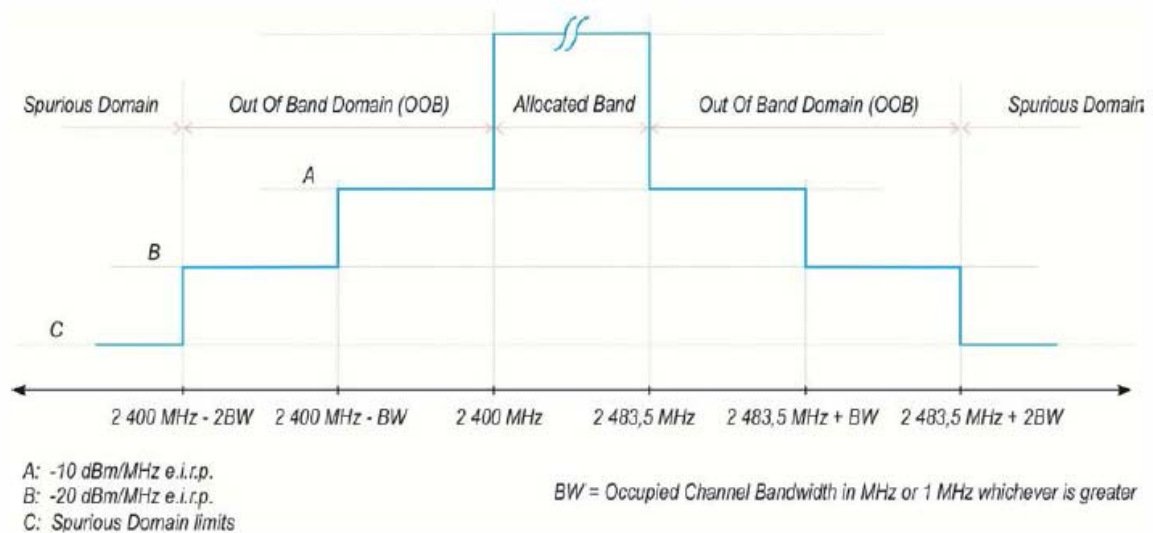
6.2 EQUIPMENT LIST

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
SZ056-06	Signal Analyzer	R&S	FSV40	8-Jul-2015	8-Jul-2016
SZ016-12	Temperature & Humidity Chamber	Terchy	MHK-120NK	23-Jan-2016	23-Jan-2017
SZ006-05	DC Power Source	Gu Wei Electronics	GPS-3030DD	23-Mar-2016	23-Sep-2016
SZ062-27	RF cable	BELDEN	SYV50	3-Nov-2015	3-Nov-2016

6.3 Limit

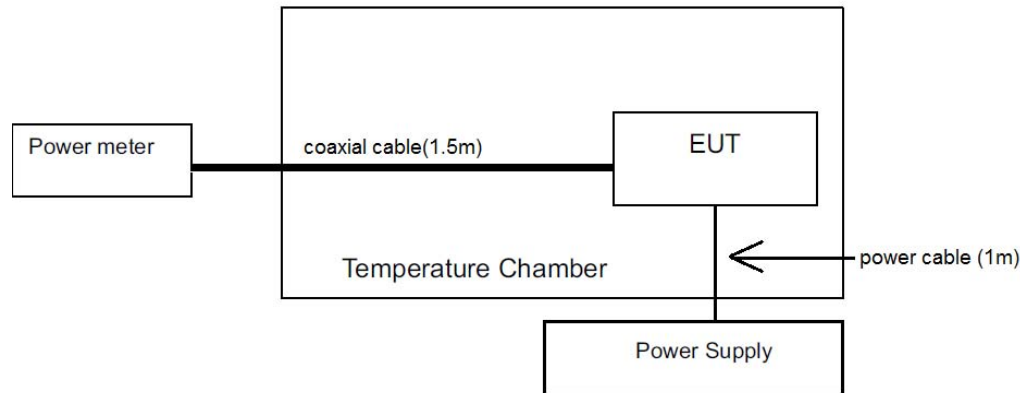
The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in figure 3.

NOTE: Within the 2 400 MHz to 2 483.5 MHz band, the Out-of-band emissions are fulfilled by compliance with the Occupied Channel Bandwidth requirement in clause 4.3.2.7.



6.4 Test Setup

6.4.1 Test Setup of Conducted measurements



6.5 Worse Case Test Result

(802.11b)

Test Conditions			Measured Power (dBm)	Limit (dBm)	Margin (dB)
Temperature (°C) Humidity (%)	Voltage (VAC)	Test Segment (MHz)			
Ambient	V AC nom 230V	2400-2*BW to 2400-BW	-56.2	-20	-36.2
T _{min} -20°C	V AC nom 230V		-56.8	-20	-36.8
H _{min} 0%	V AC nom 230V		-56.2	-20	-36.2
T _{max} 55°C	V AC nom 230V		-56.3	-20	-36.3
H _{max} 50%	V AC nom 230V	2400-BW to 2400	-56.6	-20	-36.6
Ambient	V AC nom 230V		-31.2	-10	-21.2
T _{min} -20°C	V AC nom 230V		-33.7	-10	-23.7
H _{min} 0%	V AC nom 230V		-33.6	-10	-23.6
T _{max} 55°C	V AC nom 230V		-37.5	-10	-27.5
H _{max} 50%	V AC nom 230V	2483.5 to 2483.5+BW	-45.2	-10	-35.2
Ambient	V AC nom 230V		-56.6	-10	-46.6
T _{min} -20°C	V AC nom 230V		-55.1	-10	-45.1
H _{min} 0%	V AC nom 230V		-56.4	-10	-46.4
T _{max} 55°C	V AC nom 230V	2483.5+BW to 2483.5+2*BW	-56.6	-10	-46.6
H _{max} 50%	V AC nom 230V		-56.7	-10	-46.7
Ambient	V AC nom 230V		-56.3	-20	-36.3
T _{min} -20°C	V AC nom 230V		-56.6	-20	-36.6
H _{min} 0%	V AC nom 230V	2483.5+2*BW	-56.2	-20	-36.2
T _{max} 55°C	V AC nom 230V		-56.8	-20	-36.8
H _{max} 50%	V AC nom 230V		-59.8	-20	-39.8

- Notes:
1. Negative sign (-) in the margin column signify levels below the limit.
 2. Measurement Uncertainty: ± 3.0 dB.
 3. Correction factor was compensated from the measured value.

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(802.11g)

Test Conditions			Measured Power (dBm)	Limit (dBm)	Margin (dB)
Temperature (°C) Humidity (%)	Voltage (VAC)	Test Segment (MHz)			
Ambient	V AC nom 230V	2400-2*BW to 2400-BW	-54.2	-20	-34.2
T _{min} -20°C H _{min} 0%	V AC nom 230V		-54.4	-20	-34.5
			-54.3	-20	-34.3
T _{max} 55°C H _{max} 50%	V AC nom 230V		-54.4	-20	-34.5
			-54.3	-20	-34.3
Ambient	V AC nom 230V	2400-BW to 2400	-38.9	-10	-28.9
T _{min} -20°C H _{min} 0%	V AC nom 230V		-64.4	-10	-54.4
			-40.1	-10	-30.1
T _{max} 55°C H _{max} 50%	V AC nom 230V		-40.8	-10	-30.8
			-43.5	-10	-33.5
Ambient	V AC nom 230V	2483.5 to 2483.5+BW	-40.5	-10	-30.5
T _{min} -20°C H _{min} 0%	V AC nom 230V		-43.5	-10	-33.5
			-45.5	-10	-35.5
T _{max} 55°C H _{max} 50%	V AC nom 230V		-46.1	-10	-36.1
			-47.9	-10	-37.9
Ambient	V AC nom 230V	2483.5+BW to 2483.5+2*BW	-63.3	-20	-43.3
T _{min} -20°C H _{min} 0%	V AC nom 230V		-62.5	-20	-42.5
			-61.7	-20	-41.7
T _{max} 55°C H _{max} 50%	V AC nom 230V		-63.2	-20	-43.2
			-62.4	-20	-42.4

Notes: 1. Negative sign (-) in the margin column signify levels below the limit.
2. Measurement Uncertainty: ± 3.0 dB.
3. Correction factor was compensated from the measured value.

(802.11n-HT20)

Test Conditions			Measured Power (dBm)	Limit (dBm)	Margin (dB)
Temperature (°C) Humidity (%)	Voltage (VAC)	Test Segment (MHz)			
Ambient	V AC nom 230V	2400-2*BW to 2400-BW	-56.3	-20	-36.3
T _{min} -20°C	V AC nom 230V		-54.1	-20	-34.1
H _{min} 0%			-56.2	-20	-36.2
T _{max} 55°C	V AC nom 230V		-54.7	-20	-34.7
H _{max} 50%			-54.5	-20	-34.5
Ambient	V AC nom 230V	2400-BW to 2400	-54.4	-10	-44.4
T _{min} -20°C	V AC nom 230V		-54.5	-10	-44.5
H _{min} 0%			-54.3	-10	-44.3
T _{max} 55°C	V AC nom 230V		-52.0	-10	-42.0
H _{max} 50%			-54.6	-10	-44.6
Ambient	V AC nom 230V	2483.5 to 2483.5+BW	-55.0	-10	-45.0
T _{min} -20°C	V AC nom 230V		-55.2	-10	-45.2
H _{min} 0%			-55.2	-10	-45.2
T _{max} 55°C	V AC nom 230V		-55.4	-10	-45.4
H _{max} 50%			-55.5	-10	-45.5
Ambient	V AC nom 230V	2483.5+BW to 2483.5+2*BW	-54.1	-20	-34.1
T _{min} -20°C	V AC nom 230V		-56.2	-20	-36.2
H _{min} 0%			-54.1	-20	-34.1
T _{max} 55°C	V AC nom 230V		-55.2	-20	-35.2
H _{max} 50%			-54.5	-20	-34.5

Notes: 1. Negative sign (-) in the margin column signify levels below the limit.
2. Measurement Uncertainty: ± 3.0 dB.
3. Correction factor was compensated from the measured value.

(802.11n-HT40)

Test Conditions			Measured Power (dBm)	Limit (dBm)	Margin (dB)
Temperature (°C) Humidity (%)	Voltage (VAC)	Test Segment (MHz)			
Ambient	V AC nom 230V	2400-2*BW to 2400-BW	-50.4	-20	-30.4
T _{min} -20°C	V AC nom 230V		-51.3	-20	-31.3
H _{min} 0%			-51.1	-20	-31.1
T _{max} 55°C	V AC nom 230V		-51.5	-20	-31.5
H _{max} 50%			-51.7	-20	-31.7
Ambient	V AC nom 230V	2400-BW to 2400	-30.4	-10	-20.4
T _{min} -20°C	V AC nom 230V		-30.8	-10	-20.8
H _{min} 0%			-31.2	-10	-21.2
T _{max} 55°C	V AC nom 230V		-31.9	-10	-21.9
H _{max} 50%			-32.2	-10	-22.2
Ambient	V AC nom 230V	2483.5 to 2483.5+BW	-32.6	-10	-22.6
T _{min} -20°C	V AC nom 230V		-32.7	-10	-22.7
H _{min} 0%			-33.5	-10	-23.5
T _{max} 55°C	V AC nom 230V		-55.4	-10	-45.4
H _{max} 50%			-55.5	-10	-45.5
Ambient	V AC nom 230V	2483.5+BW to 2483.5+2*BW	-51.6	-20	-31.6
T _{min} -20°C	V AC nom 230V		-52.2	-20	-32.2
H _{min} 0%			-52.4	-20	-32.4
T _{max} 55°C	V AC nom 230V		-52.6	-20	-32.6
H _{max} 50%			-52.7	-20	-32.7

Notes: 1. Negative sign (-) in the margin column signify levels below the limit.
2. Measurement Uncertainty: ± 3.0 dB.
3. Correction factor was compensated from the measured value.

7 Transmitter unwanted emissions in the spurious domain

7.1 TEST METHOD AND SUMMARY

Basic Standard :	ETSI EN 300 328 V1.9.1 (2015-02)
Clause :	5.3.10
Test method	Radiated measurements and Conducted measurements

7.2 EQUIPMENT LIST

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
SZ185-01	EMI Receiver	R & S	ESCI	23-Jan-2016	23-Jan-2017
SZ056-06	Signal Analyzer	R&S	FSV40	8-Jul-2015	8-Jul-2016
SZ061-03	Biconilog Antenna	ETS	3142C	14-Jun-2015	14-Jun-2016
SZ061-04	Biconilog Antenna	ETS	3142C	17-Oct-2015	17-Oct-2016
SZ062-27	RF cable	BELDEN	SYV50	3-Nov-2015	3-Nov-2016
SZ062-28	RF Cable	BELDEN	SF104	18-Dec-2015	18-Dec-2016
SZ061-08	Double - Ridged Waveguide Horn Antenna	ETS	3115	17-Oct-2015	17-Oct-2016
SZ061-09	Double - Ridged Waveguide Horn Antenna	ETS	3115	31-Oct-2015	31-Oct-2016
SZ181-04	Preamplifier	Agilent	8449B	23-Jan-2016	23-Jan-2017
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	14-Apr-2016	14-Apr-2018
SZ180-01	Signal Generator	R&S	SML03	20-May-2015	20-May-2016

7.3 Limit

The transmitter unwanted emissions in the spurious domain shall not exceed the values.

Frequency Range	Maximum power	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 862 MHz	-54 dBm	100 kHz
862 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 12,75 GHz	-30 dBm	1 MHz

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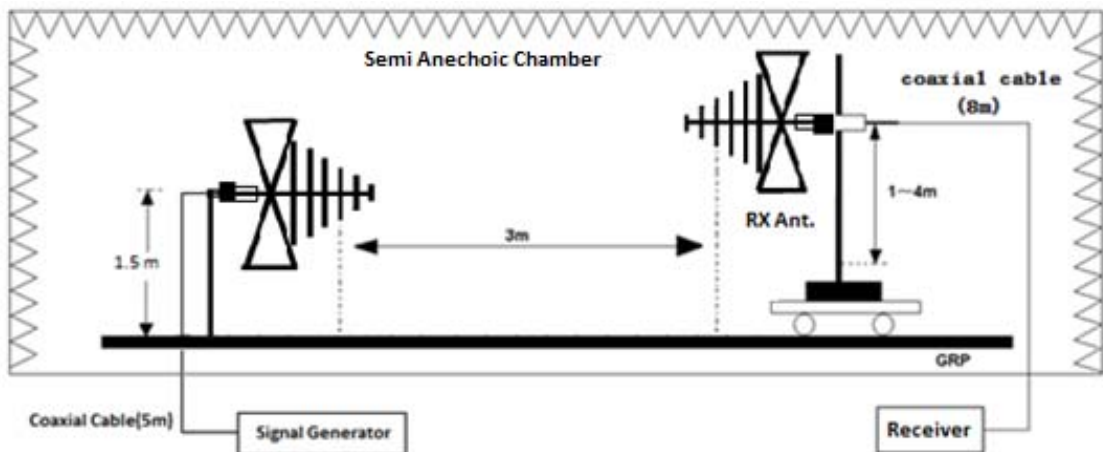
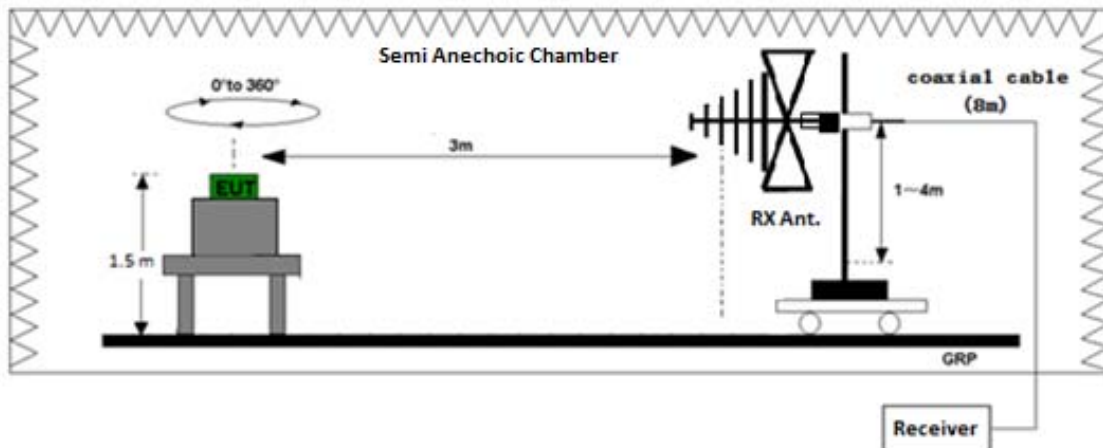
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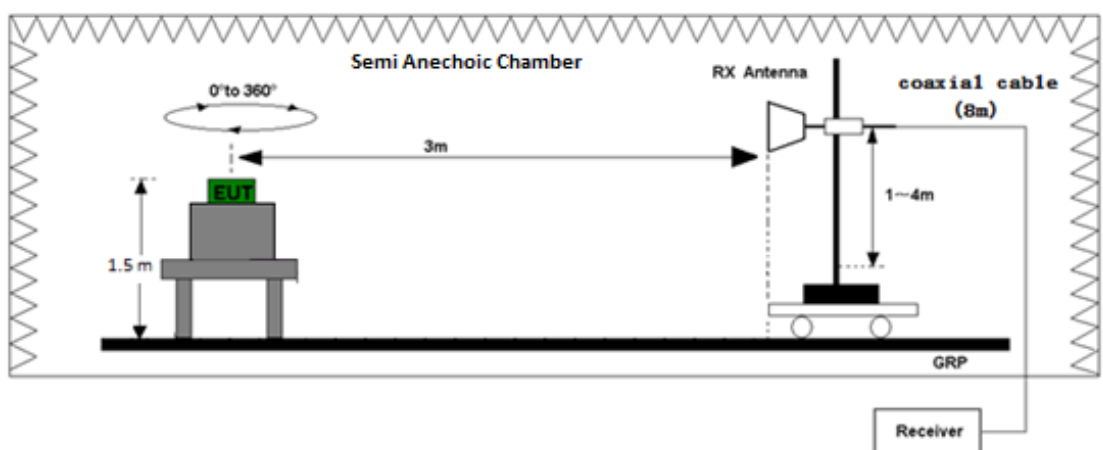
Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751

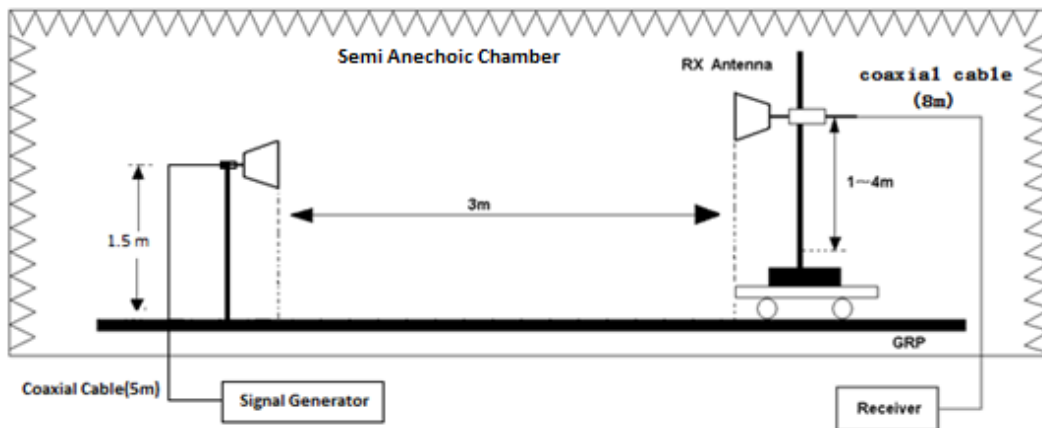
7.4 Test Setup

7.4.1 Test Setup of Radiated measurements



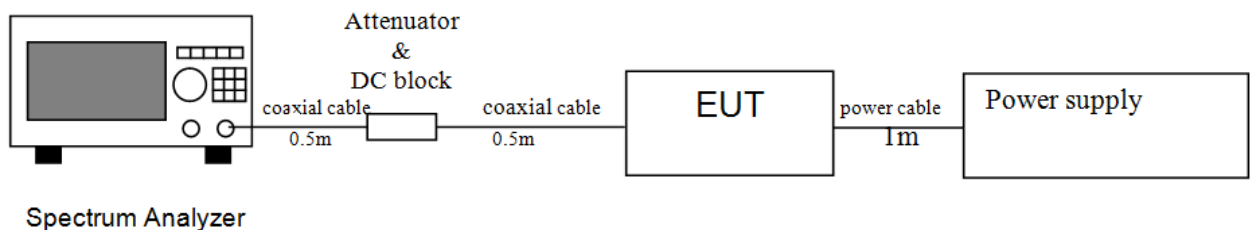
Test set-up of radiated disturbance (30MHz-1GHz)





Test set-up of radiated disturbance (above 1GHz)

7.4.2 Test Setup of Conducted measurements



Spectrum Analyzer

7.5 TEST RESULT

7.5.1 Test Result of Radiated measurements

(802.11b)

Channel 1

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	4804.000	-44.0	-30.0	-14.0
Horizontal	7206.000	-37.3	-30.0	-7.3
Horizontal	9608.000	-35.7	-30.0	-5.7

Channel 13

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	4960.000	-42.6	-30.0	-12.6
Horizontal	7440.000	-37.5	-30.0	-7.5
Horizontal	9920.000	-35.4	-30.0	-5.4

(802.11g)

Channel 1

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	4804.000	-43.0	-30.0	-13.0
Horizontal	7206.000	-35.3	-30.0	-5.3
Horizontal	9608.000	-32.7	-30.0	-2.7

Channel 13

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	4960.000	-42.7	-30.0	-12.7
Horizontal	7440.000	-37.8	-30.0	-7.8
Horizontal	9920.000	-36.4	-30.0	-6.4

(802.11n-HT20)

Channel 1

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	4804.000	-42.1	-30.0	-12.1
Horizontal	7206.000	-36.8	-30.0	-6.8
Horizontal	9608.000	-35.2	-30.0	-5.2

Channel 13

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	4960.000	-42.1	-30.0	-12.1
Horizontal	7440.000	-35.2	-30.0	-5.2
Horizontal	9920.000	-35.4	-30.0	-5.4

(802.11n-HT40)

Channel 3

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	4804.000	-44.1	-30.0	-14.1
Horizontal	7206.000	-38.3	-30.0	-8.3
Horizontal	9608.000	-35.3	-30.0	-5.3

Channel 11

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	4960.000	-41.2	-30.0	-11.2
Horizontal	7440.000	-37.2	-30.0	-7.2
Horizontal	9920.000	-36.2	-30.0	-6.2

Notes: 1. Negative sign (-) in the margin column signify levels below the limit.
2. The test frequency range is 30MHz to 12.75GHz.
3. Other emissions found were at least 10 dB below the limit.
4. Correction factor was compensated from the measured value.
5. Measurement Uncertainty: ± 4.8 dB for frequency range 30MHz to 1GHz and ± 6.0 dB for frequency range 1GHz to 12.75GHz.

7.5.2 Test Result of Conducted measurements

(802.11b)

Channel 1

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
4824.568	-52.1	-30	-21.1
7234.915	-59.1	-30	-29.1

Channel 13

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
4945.309	-48.9	-30	-18.9
9887.132	-54.2	-30	-24.2

(802.11g)

Channel 1

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
3618.732	-54.4	-30	-24.7
9645.986	-49.9	-30	-19.9

Channel 13

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
7416.824	-46.5	-30	-16.5
9882.124	-45.1	-30	-15.1

(802.11n20)

Channel 1

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
7428.330	-47.5	-30	-17.5
9652.330	-42.3	-30	-12.3

Channel 13

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
7423.930	-39.5	-30	-9.5
9886.220	-40.2	-30	-10.2

(802.11n40)

Channel 3

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
7258.960	-47.5	-30.0	-17.5
9687.668	-46.3	-30.0	-16.3

Channel 11

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
45.886	-76.1	-36	-40.1
9844.125	-55.2	-30	-25.2

- Notes:
1. Negative sign (-) in the margin column signify levels below the limit.
 2. The test frequency range is 30MHz to 12.75GHz.
 3. Other emissions found were at least 10 dB below the limit.
 4. Correction factor was compensated from the measured value.
 5. Measurement Uncertainty: ± 4.8 dB for frequency range 30MHz to 1GHz and ± 6.0 dB for frequency range 1GHz to 12.75GHz.

8 Receiver spurious emission

8.1 TEST METHOD AND SUMMARY

Basic Standard :	ETSI EN 300 328 V1.9.1 (2015-02)
Clause :	5.3.11
Test method	Radiated measurements and Conducted measurements
Test Mode	Receive-only mode

8.2 EQUIPMENT LIST

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
SZ185-01	EMI Receiver	R & S	ESCI	23-Jan-2016	23-Jan-2017
SZ056-06	Signal Analyzer	R&S	FSV40	8-Jul-2015	8-Jul-2016
SZ061-03	Biconilog Antenna	ETS	3142C	14-Jun-2015	14-Jun-2016
SZ061-04	Biconilog Antenna	ETS	3142C	17-Oct-2015	17-Oct-2016
SZ062-27	RF cable	BELDEN	SYV50	3-Nov-2015	3-Nov-2016
SZ062-28	RF Cable	BELDEN	SF104	18-Dec-2015	18-Dec-2016
SZ061-08	Double - Ridged Waveguide Horn Antenna	ETS	3115	17-Oct-2015	17-Oct-2016
SZ061-09	Double - Ridged Waveguide Horn Antenna	ETS	3115	31-Oct-2015	31-Oct-2016
SZ181-04	Preamplifier	Agilent	8449B	23-Jan-2016	23-Jan-2017
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	14-Apr-2016	14-Apr-2018
SZ180-01	Signal Generator	R&S	SML03	20-May-2015	20-May-2016

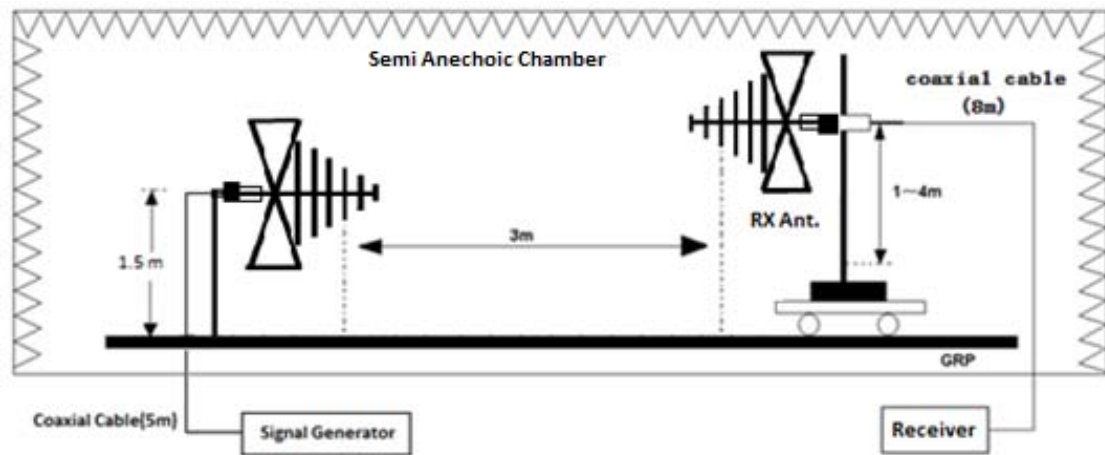
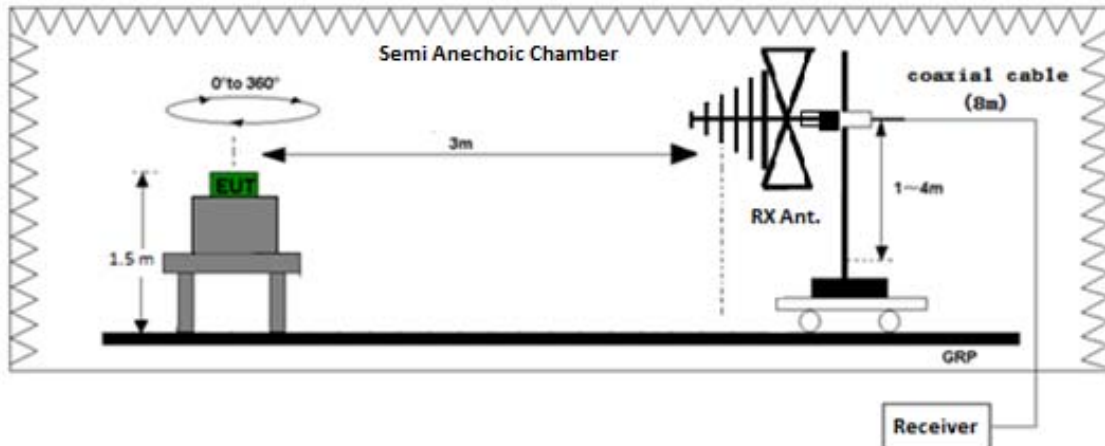
8.3 Limit

The transmitter unwanted emissions in the spurious domain shall not exceed the values.

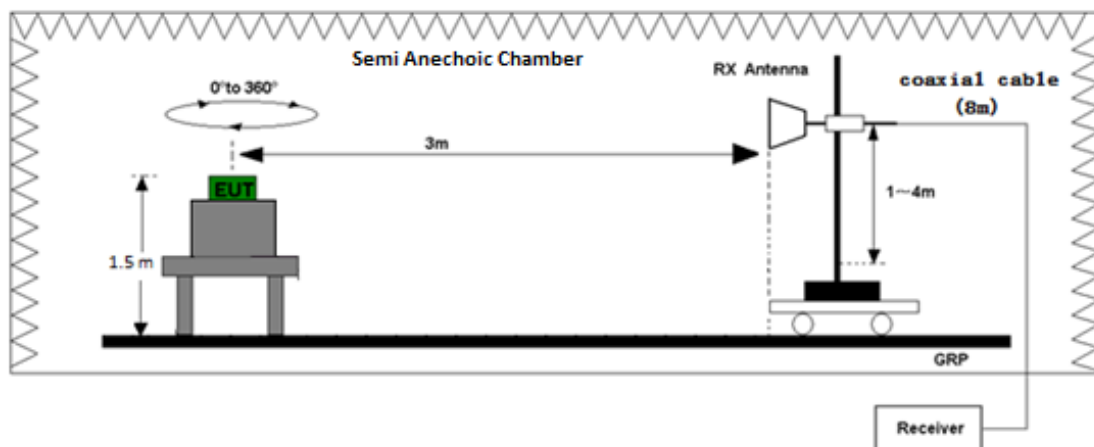
Frequency Range	Maximum power	Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 12.75 GHz	-47 dBm	1 MHz

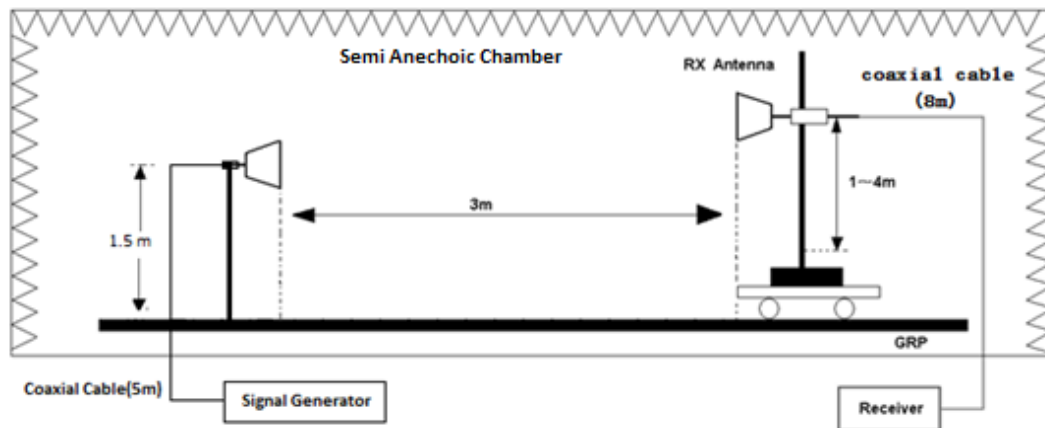
8.4 Test Setup

8.4.1 Test Setup of Radiated measurements



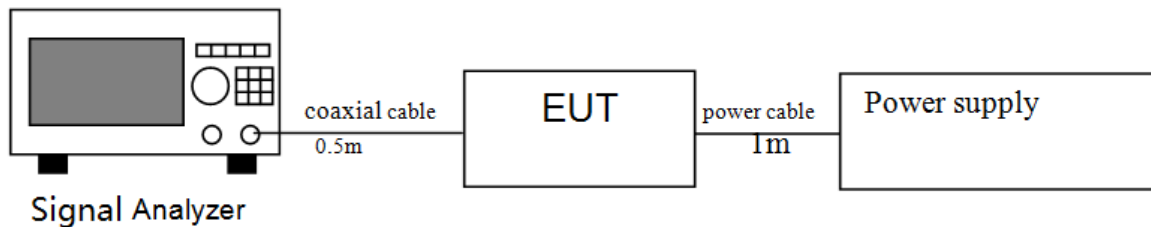
Test set-up of radiated disturbance (30MHz-1GHz)





Test set-up of radiated disturbance (above 1GHz)

9.4.2 Test Setup of Conducted measurements



8.5 Test Result

8.5.1 Test Result of Radiated measurements

(802.11b)

Channel 1

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	191.998	-75.6	-57.0	-18.6
Horizontal	384.021	-77.7	-57.0	-20.7
Horizontal	4956.766	-60.9	-47.0	-13.9

Channel 13

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	191.998	-75.7	-57.0	-18.7
Horizontal	256.005	-75.2	-57.0	-18.2
Horizontal	6164.632	-65.1	-47.0	-18.1

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(802.11g)

Channel 1

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	193.200	-73.4	-57.0	-16.4
Horizontal	320.168	-73.2	-57.0	-16.2
Horizontal	4956.763	-60.5	-47.0	-13.5

Channel 13

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	191.925	-75.4	-57.0	-18.4
Horizontal	256.410	-74.8	-57.0	-17.8
Horizontal	6164.644	-65.1	-47.0	-18.1

(802.11n-HT20)

Channel 1

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	152.677	-74.5	-57.0	-17.5
Horizontal	321.566	-74.3	-57.0	-17.3
Horizontal	4956.782	-58.2	-47.0	-11.2

Channel 13

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	143.202	-74.8	-57.0	-17.8
Horizontal	336.546	-78.2	-57.0	-21.2
Horizontal	6210.202	-67.8	-47.0	-20.8

(802.11n-HT40)

Channel 3

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	200.328	-70.6	-57.0	-13.6
Horizontal	456.548	-77.8	-57.0	-20.8
Horizontal	4953.766	-60.8	-47.0	-13.8

Channel 11

Antenna Polarization	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
Horizontal	441.324	-75.2	-57.0	-18.2
Horizontal	256.005	-75.3	-57.0	-18.3
Horizontal	6200.358	-55.3	-47.0	-8.3

Notes: 1. Negative sign (-) in the margin column signify levels below the limit.
2. The test frequency range is 30MHz to 12.75GHz.
3. Other emissions found were at least 10 dB below the limit.
4. Correction factor was compensated from the measured value.
5. Measurement Uncertainty: ± 4.8 dB for frequency range 30MHz to 1GHz and ± 6.0 dB for frequency range 1GHz to 12.75GHz.

8.5.2 Test Result of Conducted measurements

(802.11b)

Channel 1

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
949.992	-79.19	-57	-22.19
2412.000	-55.49	-47	-8.49

Channel 13

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
985.036	-75.33	-57	-18.33
3836.352	-58.45	-47	-11.45

(802.11g)

Channel 1

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
6137.225	-64.6	-47	-17.6
9653.008	-68.3	-47	-21.3

Channel 13

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
6150.278	-63.1	-47	-16.1
9888.185	-65.2	-47	-18.2

(802.11n-HT20)

Channel 1

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
887.210	-78.24	-57	-21.24
3849.750	-63.81	-47	-16.81

Channel 13

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
952.826	-80.72	-57	-23.72
3793.052	-65.73	-47	-18.73

(802.11n-HT40)

Channel 3

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
6035.793	-68.7	-47.0	-21.7
9684.738	-72.3	-47.0	-25.3

Channel 11

Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
6155.241	-66.7	-47	-19.7
9847.765	-65.2	-47	-18.2

- Notes:
1. Negative sign (-) in the margin column signify levels below the limit.
 2. The test frequency range is 30MHz to 12.75GHz.
 3. Other emissions found were at least 10 dB below the limit.
 4. Correction factor was compensated from the measured value.
 5. Measurement Uncertainty: ± 4.8 dB for frequency range 30MHz to 1GHz and ± 6.0 dB for frequency range 1GHz to 12.75GHz.

EXHIBIT 3

TEST RESULT OF EMC COMPLIANCE MEASUREMENT

9 EMC EMISSION TEST

9.1 TEST METHOD AND SUMMARY

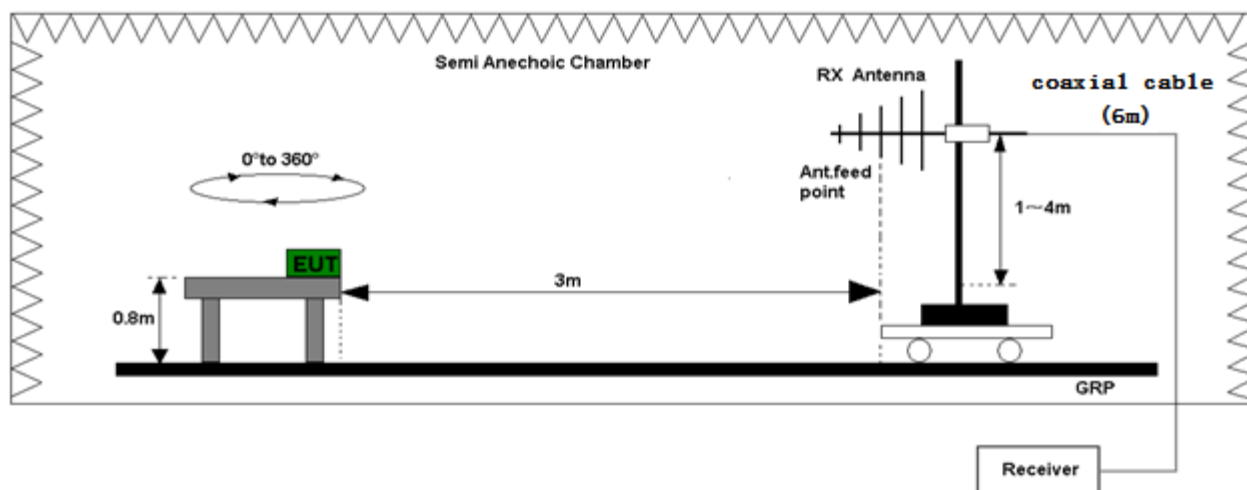
Basic Standard :	EN 55022: 2006 + A1: 2007
Test :	Radiated Emission
Classification :	Class B
Port :	Enclosure Port of Ancillary Equipment

9.2 RADIATED EMISSION TEST

9.2.1 TEST EQUIPMENT

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
SZ185-01	EMI Receiver	R & S	ESCI	23-Jan-2016	23-Jan-2017
SZ056-06	Signal Analyzer	R&S	FSV40	5-Jan-2016	5-Jul-2016
SZ061-03	Biconilog Antenna	ETS	3142C	14-Jun-2015	14-Jun-2016
SZ061-09	Double - Ridged Waveguide Horn Antenna	ETS	3115	31-Oct-2015	31-Oct-2016
SZ181-04	Preamplifier	Agilent	8449B	23-Jan-2016	23-Jan-2017
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	14-Apr-2016	14-Apr-2018
SZ062-28	RF Cable	BELDEN	SF104	18-Dec-2015	18-Dec-2016
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	20-May-2015	20-May-2016

9.2.2 TEST SETUP



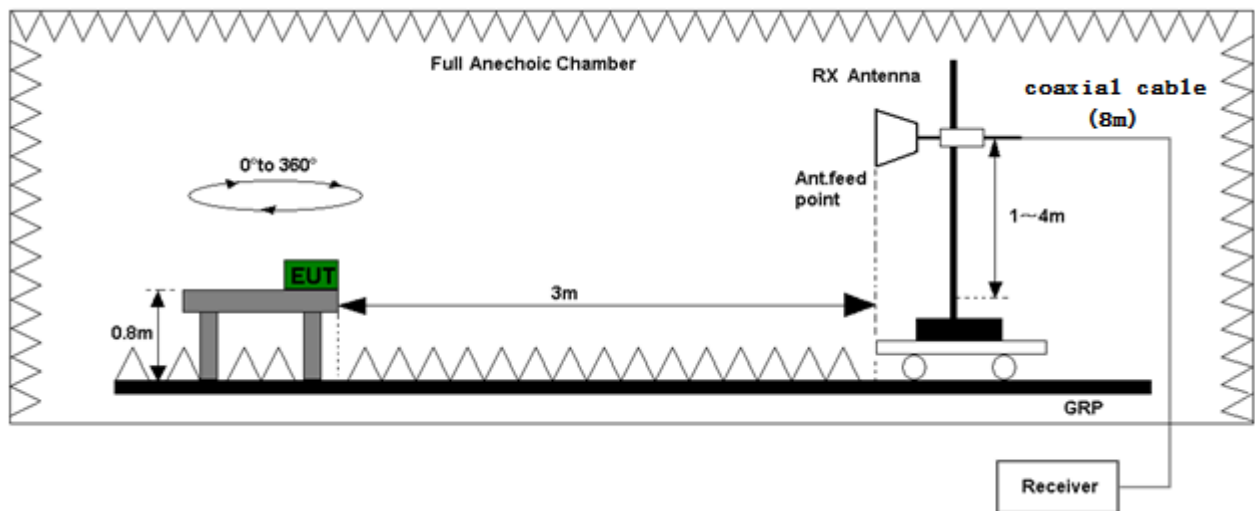
Test set-up of radiated disturbance (30MHz-1GHz)

TRF No.: ETSI EN300328_c

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Test set-up of radiated disturbance (above 1GHz)

9.2.3 TEST RESULT

Test Mode: WiFi Link

Polarization	Frequency (MHz)	Net at 3m (dBμV/m)	Calculated Net at 10m (dBμV/m)	Limit at 10m (dBμV/m)	Margin (dB)
Horizontal	31.940	21.5	11.0	30.0	-19.0
Horizontal	37.275	17.3	6.8	30.0	-23.2
Horizontal	113.420	17.6	7.1	30.0	-22.9
Vertical	30.485	31.6	21.1	30.0	-8.9
Vertical	32.470	32.0	21.5	30.0	-8.5
Vertical	57.160	19.9	9.4	30.0	-20.6

Notes:

1. Quasi-Peak Detector Data.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30 MHz to 6000 MHz.
4. Only emissions significantly above equipment noise floor are reported.
5. Correction factor was compensated from the measured value.
6. The graphs are attached in Appendix 1.

9.2.4 MEASUREMENT UNCERTAINTY

Measurement Uncertainties: $\pm 4.8\text{dB}$. The measured result is above the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance is more probable than non-compliance with the specification limit.

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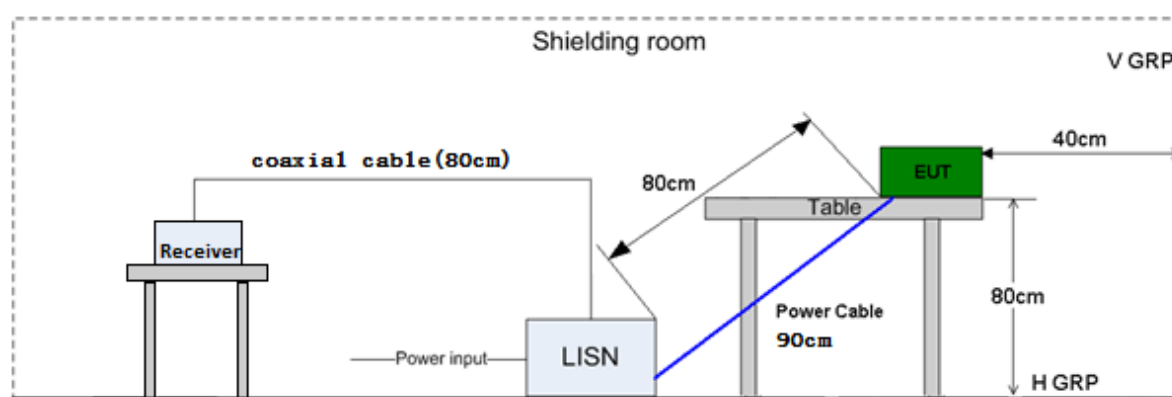
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9.3 CONDUCTED EMISSION TEST

9.3.1 TEST EQUIPMENT

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ187-01	LISN	R & S	ENV216	3-Nov-2015	3-Nov-2016
SZ187-02	LISN	R & S	ENV216	24-Jun-2015	24-Jun-2016
SZ185-02	EMI Test Receiver	R&S	ESCI	3-Nov-2015	3-Nov-2016
SZ188-03	Shielding Room	ETS	RFD-100	23-Aug-2014	23-Aug-2016

9.3.2 TEST SETUP



Test set-up of conducted disturbance for power port

9.3.3 TEST RESULT

The emission result (AC mains power port) is attached in Appendix 1.

9.3.4 MEASUREMENT UNCERTAINTY

Measurement Uncertainties: $\pm 3.6\text{dB}$.

10 HARMONIC EMISSION TEST EMC EMISSION TEST**10.1 TEST METHOD AND SUMMARY**

Basic Standard :	EN 61000-3-2: 2006 + A1: 2009 + A2: 2009
Classification :	Class A
Port :	AC Mains Input Port

10.2 TEST EQUIPMENT

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ064-01	Compliance Test System	California Instruments	5001iX-CTS-400	23-Jan-2016	23-Jan-2017
SZ064-01-01	Power Analyzer and Conditioning System	California Instruments	PACS-1	23-Jan-2016	23-Jan-2017

10.3 TEST RESULT

According to EN 61000-3-2: 2006+A1:2009+A2:2009 clause 7, equipment with a rated power less than or equal to 75W is deemed to fulfil all relevant requirements of this standard without testing.

10.4 MEASUREMENT UNCERTAINTY

Measurement Uncertainties: 0.03%.

11 VOLTAGE FLUCTUATIONS AND FLICKER

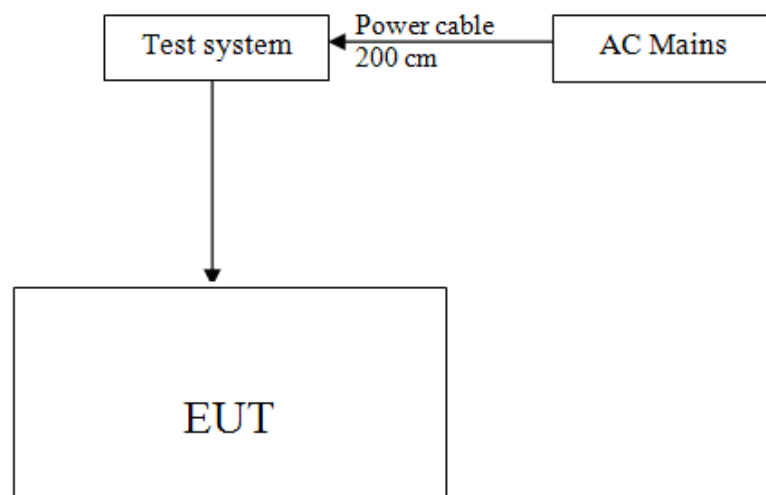
11.1 TEST METHOD AND SUMMARY

Basic Standard :	EN 61000-3-3: 2008
Port :	AC Mains Input Port

11.2 TEST EQUIPMENT

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ064-01	Compliance Test System	California Instruments	5001iX-CTS-400	23-Jan-2016	23-Jan-2017
SZ064-01-01	Power Analyzer and Conditioning System	California Instruments	PACS-1	23-Jan-2016	23-Jan-2017

11.3 TEST SETUP



Test set-up of voltage fluctuations test

11.4 TEST RESULT

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

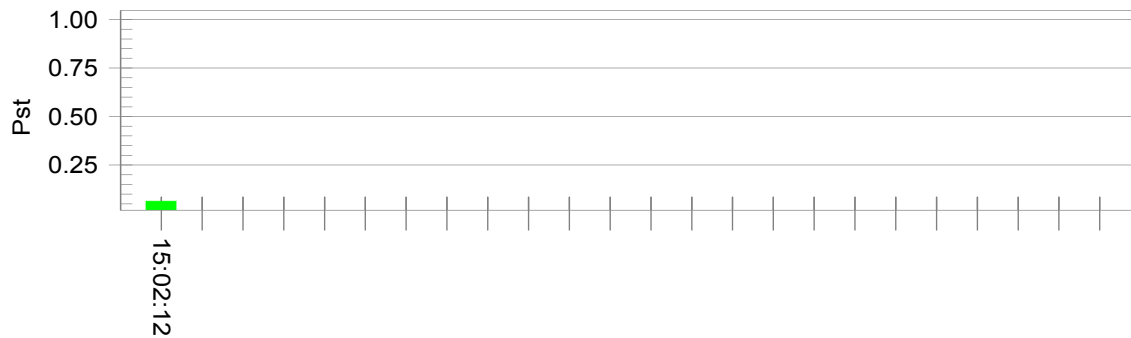
Test mode: WiFi Link

Test Result: Pass

Status: Test Completed

Pst, and limit line

European Limits



Parameter values recorded during the test:

Vrms at the end of test (Volt): 229.92

Highest dt (%): 0.00

Time(mS) > dt: 0.0

Highest dc (%): 0.00

Highest dmax (%): 0.00

Highest Pst (10 min. period): 0.064

Test limit (%): 3.30 Pass

Test limit (mS): 500.0 Pass

Test limit (%): 3.30 Pass

Test limit (%): 4.00 Pass

Test limit: 1.000 Pass

11.5 MEASUREMENT UNCERTAINTY

Measurement Uncertainties: 0.25%.

12 ELECTROSTATIC DISCHARGE

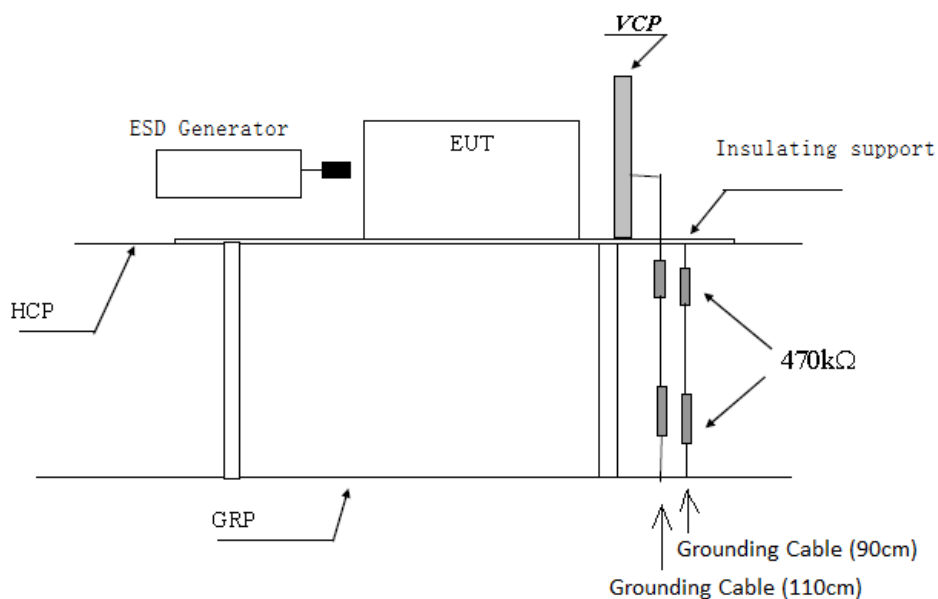
12.1 TEST METHOD AND SUMMARY

Basic Standard :	EN 61000-4-2: 2009
Port :	Enclosure
Required Performance Criterion :	TT & TR
Level :	± 2, ± 4, ±8 kV (Air Discharge) ±4 kV (Contact Discharge) ±4 kV (Indirect Contact Discharge)
Temperature :	23.2 °C
Relative Humidity :	48.9 %
No. of Discharge(s) :	Minimum of 10 Discharges per Each Polarity
Time Between Each Discharge :	1 second
Test Mode :	WiFi link, WiFi Idle
Test Setup :	Table-top
Test of Post-installation :	N/A

12.2 TEST EQUIPMENT

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ189-03	ESD Simulator	Teseq	NSG 435	14-Nov-2015	14-Nov-2016

12.3 TEST SETUP



Test set-up of electrostatic discharge

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12.4 TEST RESULT

Discharge Type	Applied Voltage	Result (Pursuant to ETSI EN 301 489-17 Criterion TT & TR)
Contact Discharge	$\pm 4\text{kV}$	Complied
Air Discharge	$\pm 2, \pm 4, \pm 8\text{kV}$	Complied
Indirect HCP Discharge	$\pm 4\text{kV}$	Complied
Indirect VCP Discharge	$\pm 4\text{kV}$	Complied

12.5 ADDITIONAL RESULT INFORMATION

For all working mode, the EUT continue to operate as intended without operator intervention.
No degradation of performance or loss of function was occurred during and after the test.

12.6 DECLARATION INFORMATION FROM APPLICANT

None.

13 RADIO FREQUENCY ELECTROMAGNETIC FIELD

13.1 TEST METHOD AND SUMMARY

Basic Standard :	EN 61000-4-3: 2006 + A1: 2008 + A2: 2010
Port :	Enclosure
Required Performance Criterion :	CT & CR
Level :	3.0 V/m (rms)
Test Modulation :	1kHz, 80% AM
Frequency :	80 MHz to 1000 MHz and 1400 MHz to 2700 MHz
Dwell Time :	1s
Frequency Step :	1%
Temperature :	25.1 °C
Relative Humidity :	46.2 %
Test Facility :	Full Anechoic Chamber
Antenna Polarization :	Horizontal and Vertical
Type of Antenna :	Biconical / Log-periodic / Horn
Test Distance :	3m
Test Mode :	WiFi link, WiFi Idle
Test Setup :	Table-top

13.2 TEST EQUIPMENT

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ061-04	BiConiLog Antenna	ETS	3142C	17-Oct-2015	17-Oct-2016
SZ180-01	Signal Generator	R&S	SML03	20-May-2015	20-May-2016
SZ181-01	Amplifier	PRANA	AP32 MT215	23-Jan-2016	23-Jan-2017
SZ181-07	Power Amplifier	MILMEGA	AS0827-110	23-Jan-2016	23-Jan-2017
SZ182-01	RF Power Meter	BOONTON	4232A	23-Jan-2016	23-Jan-2017
SZ188-02	Anechoic Chamber	ETS	RFD-F/A-100	8-Nov-2014	8-Nov-2016

* The Equipment would be verified together with the test system before testing.

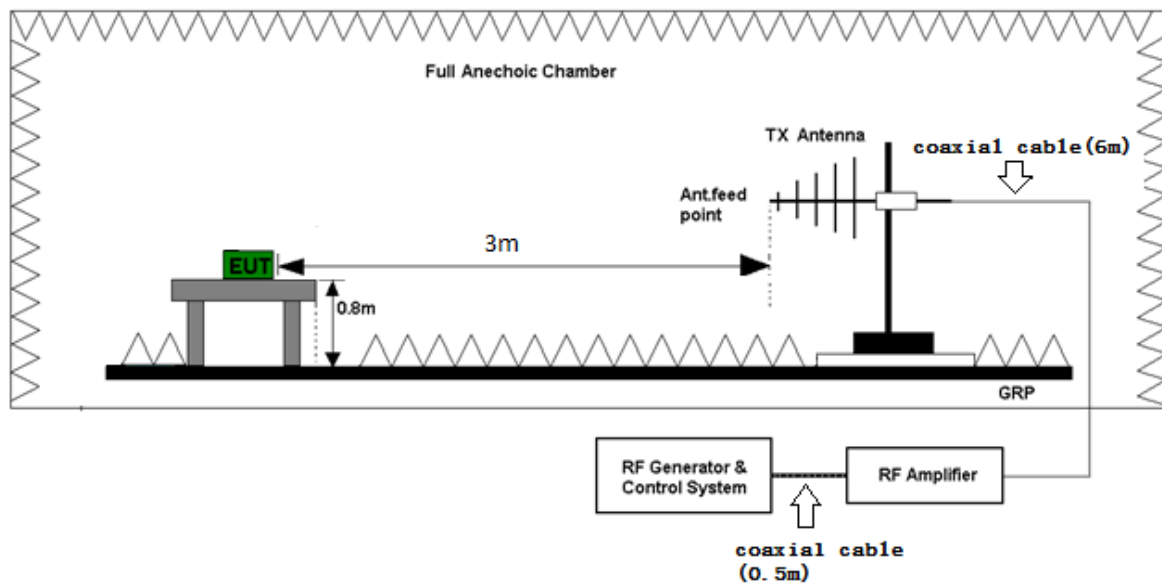
TRF No.: ETSI EN300328_c

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13.3 TEST SETUP



Test set-up of Immunity to Radiated Electric Fields

13.4 TEST RESULT

Frequency (MHz)	Exposed Side	Result (Pursuant to ETSI EN 301 489-17 Criterion CT & CR)
80 to 1000 1400 to 2700	Front	Complied
80 to 1000 1400 to 2700	Left	Complied
80 to 1000 1400 to 2700	Rear	Complied
80 to 1000 1400 to 2700	Right	Complied

13.5 ADDITIONAL RESULT INFORMATION

For all working mode, the EUT continue to operate as intended without operator intervention. No degradation of performance or loss of function was occurred during and after the test.

13.6 DECLARATION INFORMATION FROM APPLICANT

None.

14 FAST TRANSIENTS

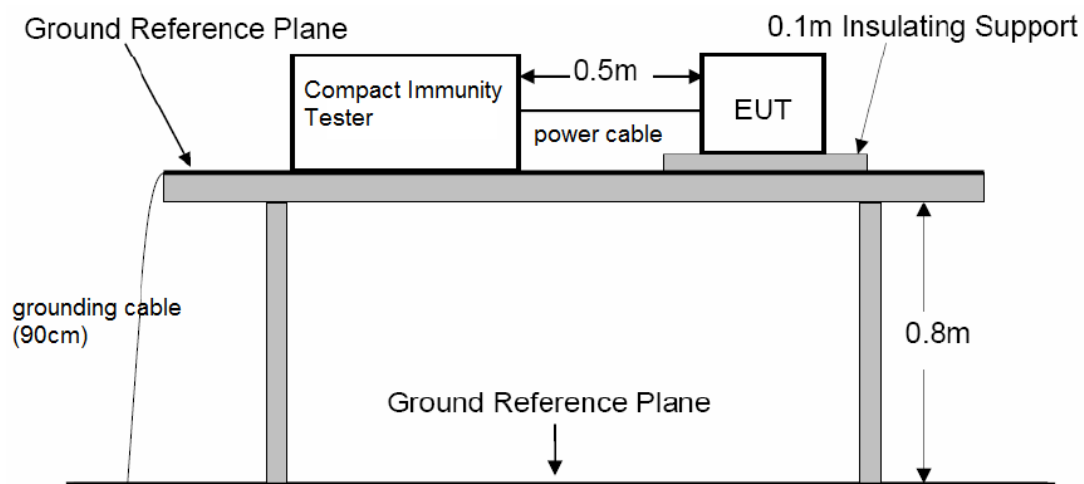
14.1 TEST METHOD AND SUMMARY

Basic Standard:	EN 61000-4-4: 2004 +A1: 2010
Port :	A.C. Power Lines
Required Performance Criterion:	TT & TR
Level:	±1.0kV
Temperature :	27.8 °C
Relative Humidity :	48.4 %
Test Duration	1 minute per each polarity
Test Mode:	WiFi link, WiFi Idle
Test Setup:	Table-top
Generator Drive:	Internal
Sequence of Application:	Each One

14.2 TEST EQUIPMENT

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ063-01	Compact Immunity Tester	Haefely	ECOMPAC T 4	23-Jan-2016	23-Jan-2017
SZ063-01-01	Capacitive Coupling Clamp	Haefely	IP4A	23-Jan-2016	23-Jan-2017

14.3 TEST SETUP



Test set-up of immunity to electrical fast transient bursts for power port

TRF No.: ETSI EN300328_c

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14.4 TEST RESULT

Port	Level	Result (Pursuant to ETSI EN 301 489-17 Criterion TT & TR)
A.C. Power Lines	$\pm 1\text{kV}$	Complied
Telecommunication Lines	$\pm 0.5\text{kV}$	N/A
D.C. Power Lines	$\pm 0.5\text{kV}$	N/A
Signal Lines	$\pm 0.5\text{kV}$	N/A
Control Lines	$\pm 0.5\text{kV}$	N/A

14.5 ADDITIONAL RESULT INFORMATION

For all working mode, the EUT continue to operate as intended without operator intervention.
No degradation of performance or loss of function was occurred during and after the test.

14.6 DECLARATION INFORMATION FROM APPLICANT

None.

15 SURGES

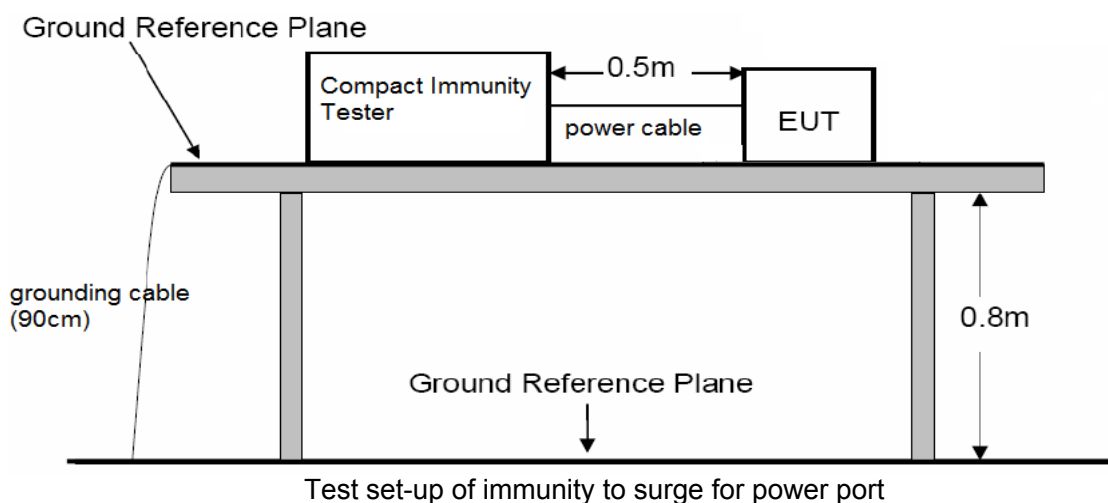
15.1 TEST METHOD AND SUMMARY

Basic Standard :	EN 61000-4-5: 2006
Port :	A.C. Power Lines
	Phase And Neutral
Level :	5 Positive And 5 Negative Surges
	±1kV
Temperature :	27.8 °C
Relative Humidity :	48.4 %
Generator Impedance :	2 ohm
Required Performance Criterion :	TT & TR
Repetition Rate :	1 minute
Test Mode :	WiFi link, WiFi Idle
Test Setup :	Table-top
Surge Generator Trigger :	Internal
Installation Condition :	Class 3: Electrical environment where cables run in parallel.
Phase Angle :	0°, 90°, 180°, 270°

15.2 TEST EQUIPMENT

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ063-01	Compact Immunity Tester	Haefely	ECOMPACT 4	23-Jan-2016	23-Jan-2017

15.3 TEST SETUP



TRF No.: ETSI EN300328_c

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6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China
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15.4 TEST RESULT

Level	Result (Pursuant to ETSI EN 301 489-17 Criterion TT & TR)
Between Phase And Neutral : $\pm 1\text{kV}$	Complied
Between Phase And Earth : $\pm 2\text{kV}$	N/A
Between Neutral And Earth : $\pm 2\text{kV}$	N/A

15.5 ADDITIONAL RESULT INFORMATION

For all working mode, the EUT continue to operate as intended without operator intervention.
No degradation of performance or loss of function was occurred during and after the test.

15.6 DECLARATION INFORMATION FROM APPLICANT

None.

16 CONDUCTED RF IMMUNITY

16.1 TEST METHOD AND SUMMARY

Basic Standard :	EN 61000-4-6: 2009
Port :	A.C. Power Lines
Required Performance Criterion :	CT & CR
Level :	3.0V (rms)
Test Modulation :	1 kHz, 80% AM
Frequency :	0.15 MHz to 80 MHz
Dwell Time :	1s
Frequency Step :	1%
Temperature :	25.1 ⁰ C
Relative Humidity :	46.2%
Coupling Factor of CDN :	-1.0dB ~ -1.7dB
Test Mode :	WiFi link, WiFi Idle
Test Setup :	Table-top
Equipment Under Test (EUT):	Single Unit

16.2 TEST EQUIPMENT

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ180-02	Signal Generator	Aeroflex	SML03	23-Jan-2016	23-Jan-2017
SZ181-03	Amplifier	AR-WORLDWIDE	75A250	23-Jan-2016	23-Jan-2017
SZ181-03-01	Attenuator	AR-WORLDWIDE	6dB/50FH-006-100	23-Jan-2016	23-Jan-2017
SZ184-01	Coupling-Decoupling Network	LUTHI	CDN L-801 M2/M3	23-Jan-2016	23-Jan-2017
SZ184-01-01	Adaptor	LUTHI	CR100	23-Jan-2016	23-Jan-2017
SZ184-01-02	Adaptor	LUTHI	CR100	23-Jan-2016	23-Jan-2017
SZ183-01	RF CURRENT-INJECTION CLAMP	LUTHI	EM101	23-Jan-2016	23-Jan-2017

* The Equipment would be verified together with the test system before testing.

TRF No.: ETSI EN300328_c

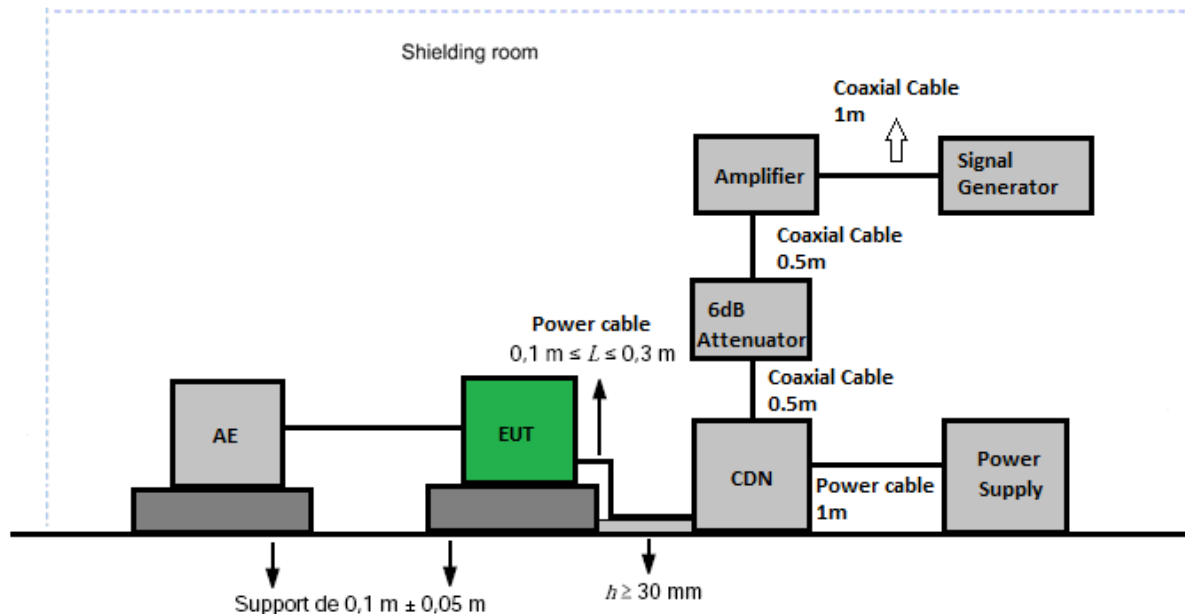
Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch

6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China

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16.3 TEST SETUP



Test set-up of immunity to continuous conducted interference for power port

16.4 TEST RESULT

Port	Level	Result (Pursuant to ETSI EN 301 489-17 Criterion CT & CR)
A.C. Power Lines	3V (rms)	Complied
Telecommunication Lines	3V (rms)	N/A
D.C. Power Lines	3V (rms)	N/A
Signal Lines	3V (rms)	N/A
Control Lines	3V (rms)	N/A

16.5 ADDITIONAL RESULT INFORMATION

For all working mode, the EUT continue to operate as intended without operator intervention. No degradation of performance or loss of function was occurred during and after the test.

16.6 DECLARATION INFORMATION FROM APPLICANT

None.

17 VOLTAGE DIPS & INTERRUPTIONS

17.1 TEST METHOD AND SUMMARY

Basic Standard :	EN 61000-4-11: 2004			
Port :	A.C. Power Lines			
Level :	Test level in %UT	Duration(s)	Required Performance Criterion	
			Transmitter	Receiver
	0	0.01	TT	TR
	0	0.02	TT	TR
	70	0.5	TT	TR
	0	5	TT	TR
No. of Dips/Interruptions :	3			
Temperature :	27.8 °C			
Relative Humidity :	48.4 %			
Test Mode :	WiFi link, WiFi Idle			
Test Setup :	Test generator causes the interference to the EUT AC mains			

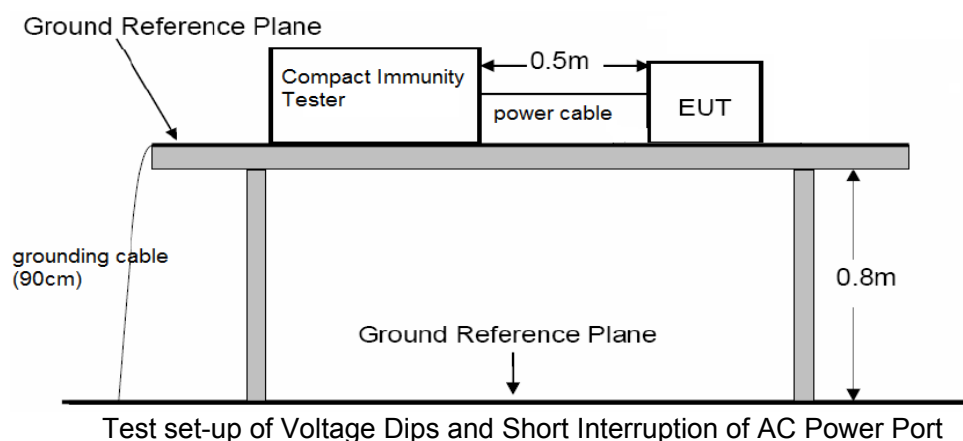
U_T is the rated voltage for the equipment.

17.2 TEST EQUIPMENT

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ063-01	Compact Immunity Tester	Haefely	ECOMPACT 4	23-Jan-2016	23-Jan-2017

* The Equipment would be verified together with the test system before testing.

17.3 TESTSETUP



17.4 TEST RESULT

Test Condition		Result (Pursuant to ETSI EN 301 489-17)	
Test Level in %U _T	Duration(s)	Meet Criterion CT & CR	Meet Criterion TT & TR
0	0.01	N/A	Complied
0	0.02	N/A	Complied
70	0.5	N/A	Complied
0	5	N/A	Complied

U_T is the rated voltage for the equipment.

17.5 ADDITIONAL RESULT INFORMATION

The BT link could not maintain during test and could be reset by operator after test at test level 0%U_T, 5s of Interrupt.

17.6 DECLARATION INFORMATION FROM APPLICANT

None

EXHIBIT 4

PHOTOS OF EUT

18 EUT PHOTOS

18.1 EXTERNAL PHOTOS

External Photo

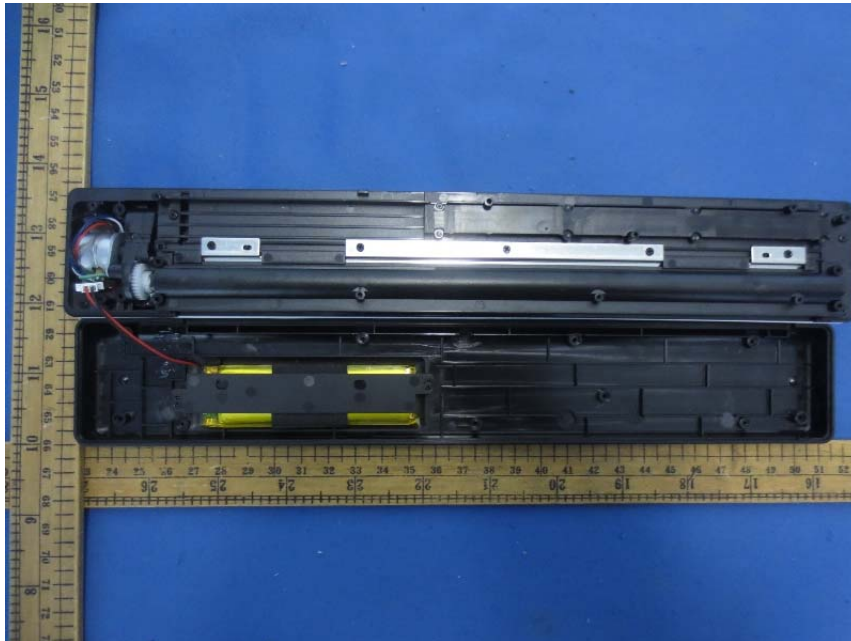


External Photo

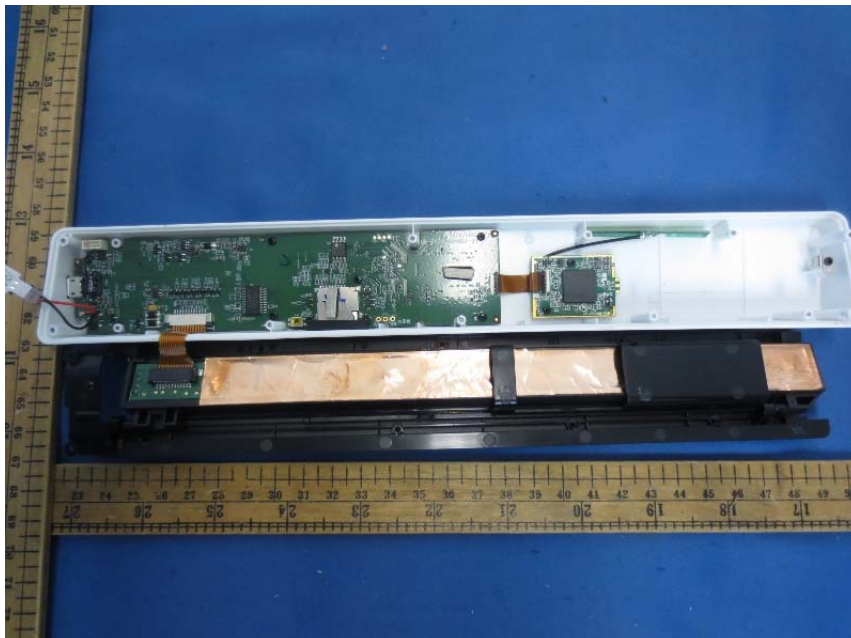


18.2 INTERNAL PHOTOS

Internal Photo



Internal Photo



Internal Photo

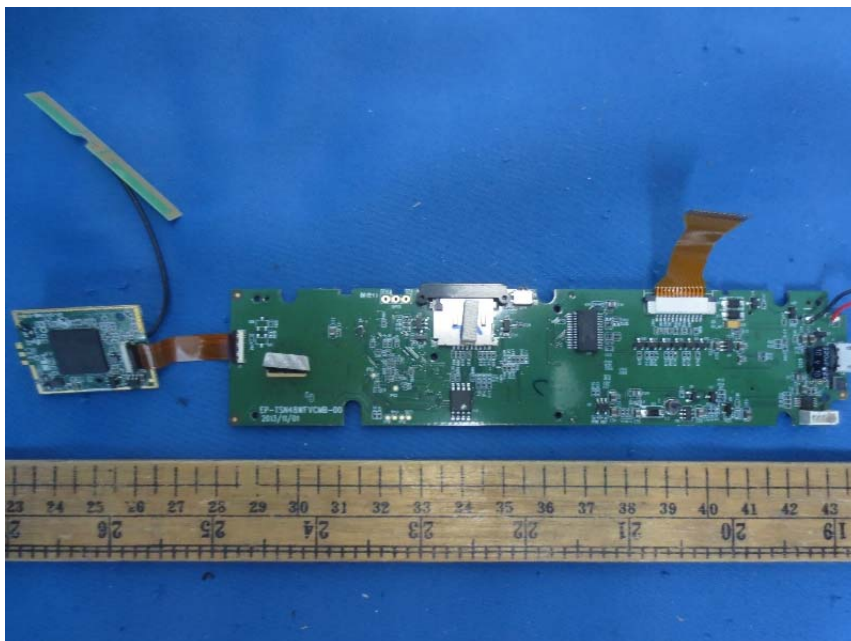
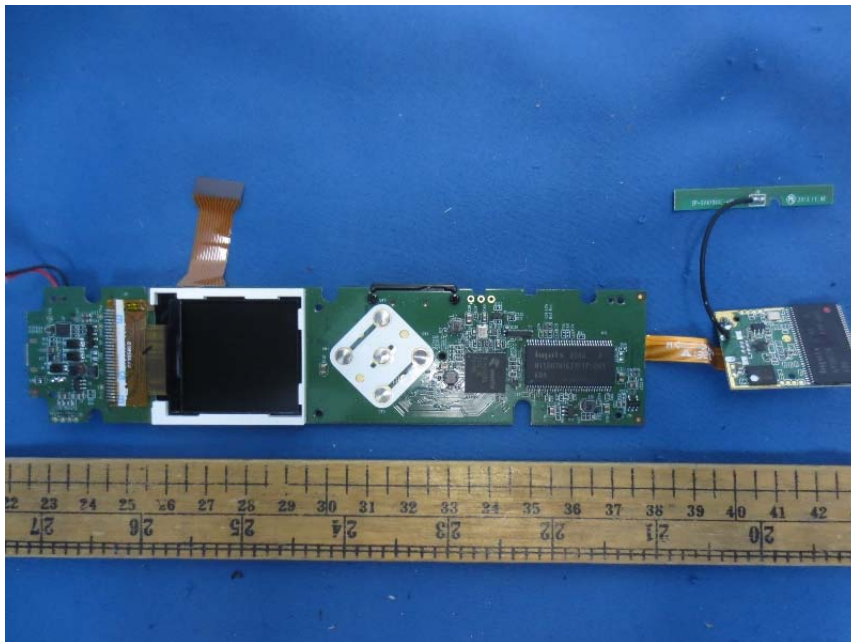


EXHIBIT 5

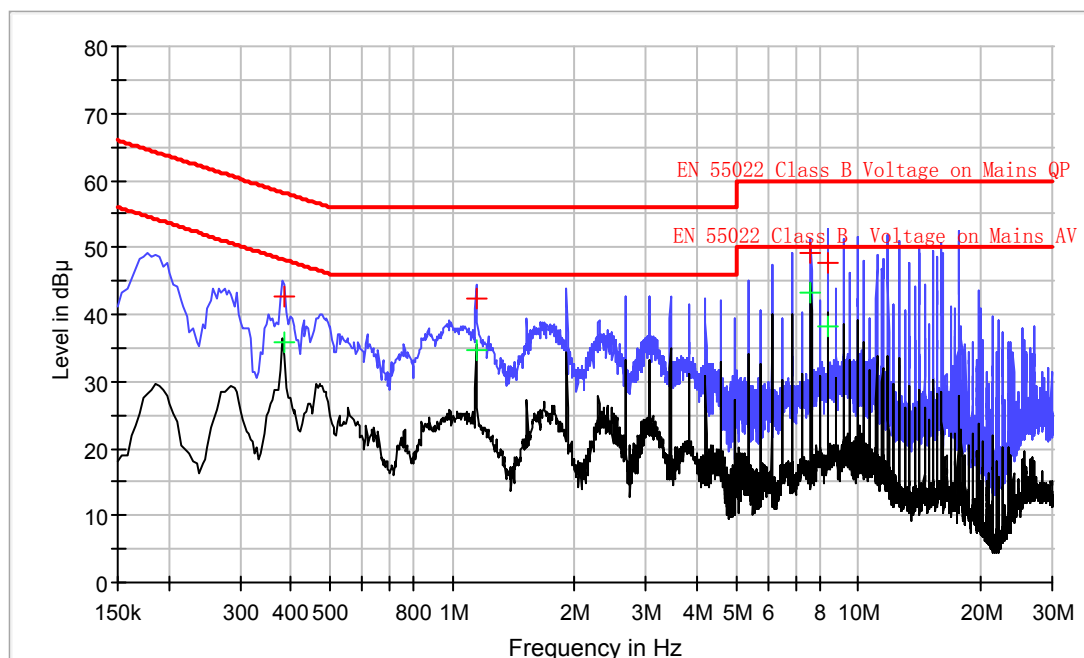
APPENDIX

APPENDIX 1 TEST RESULT ATTACHMENT

Test	Total Page(s)
Conducted Emission Test -Graph and Table –Live Line	1
Conducted Emission Test -Graph and Table – Neutral Line	1

Mode: WiFi Link
AC mains 'Live'

Conducted Emission Test- EN55022



Result Table QP

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.384	42.5	L1	9.7	15.7	58.2
1.146	42.5	L1	9.8	13.5	56.0
7.646	49.2	L1	10.0	10.8	60.0
8.412	47.6	L1	10.0	12.4	60.0

Result Table AV

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.384	35.9	L1	9.7	12.3	48.2
1.146	34.8	L1	9.8	11.2	46.0
7.646	43.2	L1	10.0	6.8	50.0
8.412	38.2	L1	10.0	11.8	50.0

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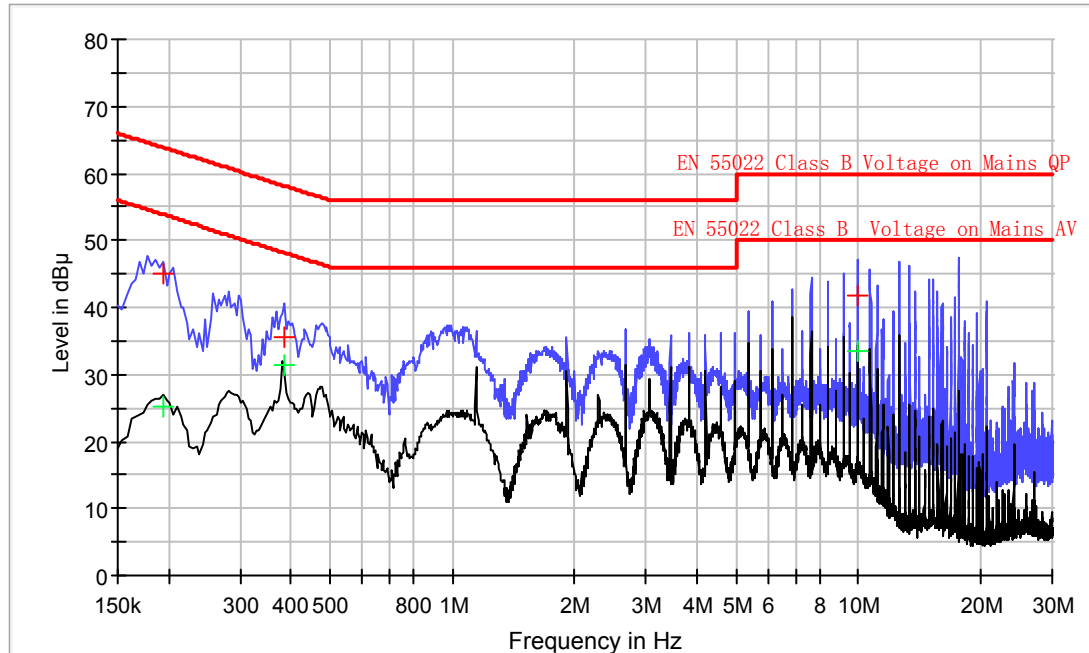
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Test Mode: WiFi Link
AC mains 'Neutral'

Conducted Emission Test- EN55022



Result Table QP

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.194	45.1	N	10.2	18.8	63.9
0.384	35.5	N	10.2	22.7	58.2
9.947	41.9	N	10.5	18.1	60.0

Result Table AV

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.194	25.1	N	10.2	28.8	53.9
0.384	31.4	N	10.2	16.8	48.2
9.947	33.6	N	10.5	16.4	50.0