

FCC Measurement/Technical Report on

I-1, Analog Instant Camera

FCC ID: 2AHU9-9001

IC: 21310-9001

Test Report Reference: MDE_IMPOSSIBLE_1501_FCCb

Test Laboratory:

7layers GmbH Borsigstrasse 11 40880 Ratingen Germany



Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the test laboratory.

7layers GmbH

Borsigstraße 11 40880 Ratingen, Germany T +49 (0) 2102 749 0 F +49 (0) 2102 749 350 Geschäftsführer/ Managing Directors: Frank Spiller Bernhard Retka Alexandre Norré-Oudard

Registergericht/registered: Düsseldorf HRB 75554 USt-Id.-Nr./VAT-No. DE203159652 Steuer-Nr./TAX-No. 147/5869/0385 a Bureau Veritas Group Company

www.7layers.com



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1 Applied Standards and Test Summary

1.1 Applied Standards

Applicable FCC Rules

Prepared in accordance with the requirements of FCC Rules and Regulations as listed in 47 CFR Ch.1 Parts 2 and 15 (10-1-15 Edition). The following subparts are applicable to the results in this test report.

Part 2, Subpart J - Equipment Authorization Procedures, Certification

Part 15, Subpart B - Unintentional Radiators

§ 15.107 Conducted limits

§ 15.109 Radiated emission limits; general requirements



Summary Test Results:

The EUT complied with all performed tests as listed in chapter 1.3 Measurement Summary / Signatures.

1.2 FCC-IC Correlation Table

Correlation of measurement requirements for Information Technology Equipment (ITE) from FCC and IC

Measurement	FCC reference	IC reference
Conducted Emissions (AC Power Line)	§15.107	ICES-003 Issue 6: 6.1
Radiated Spurious Emissions	§15.109	ICES-003 Issue 6: 6.2

Remarks:

- FCC Part 15 subpart B, ICES 003 and CISPR 22 contain different definitions of Class A and Class B limits, i.e. which class is applicable to which kind of EUT. ICES 003 and CISPR 22 distinguish between the location where the EUT is intended to operate whilst FCC refers to the method of commercial distribution (distributive trades).
- 2. The correct assignment of the appropriate class to the concrete EUT is not scope of this test report!
- 3. A radio apparatus that is specifically subject to an Industry Canada Radio Standard Specification (RSS) and which contains an ITE is not subject to ICES-003 provided the ITE is used only to enable operation of the radio apparatus and the ITE does not control additional functions or capabilities.
- 4. ISM (Industrial, Scientific or Medical) radio frequency generators, though they may contain ITE, are excluded from the definition of ITE and are not subject to ICES-003. They are instead subject to the Interference-Causing Equipment Standard ICES-001, which specifically addresses ISM radio frequency generators.



1.3 Measurement Summary / Signatures

47 CFR CHAPTER I FCC PART 15 Subpart B	§ 15.107		
Conducted Emissions at AC mains			
The measurement was performed according to ANSI Co	53.4-2014	Final Re	esult
OP-Mode	Setup	FCC	IC
AC mains connection, Test setup			
via auxiliary equipment, stand-alone	S01_AH02	passed	passed
via connected computer device, computer periphery	S02 AH02	passed	passed
	_		
47 CER CHAPTER I ECC PART 15 Subpart B	8 15.109		
47 CFR CHAPTER I FCC PART 15 Subpart B Radiated Emissions	§ 15.109		
Radiated Emissions		Final Re	scult
The second of th		Final Re	esult
Radiated Emissions	53.4-2014	Final Re	esult IC
Radiated Emissions The measurement was performed according to ANSI Co			
Radiated Emissions The measurement was performed according to ANSI Co OP-Mode AC mains connection, Measurement range, Test setup	53.4-2014 Setup	FCC	IC
Radiated Emissions The measurement was performed according to ANSI Co OP-Mode AC mains connection, Measurement range, Test setup via auxiliary equipment, 30 MHz - 1 GHz, stand-alone	53.4-2014 Setup S01_AH02	FCC passed	IC passed
Radiated Emissions The measurement was performed according to ANSI Co OP-Mode AC mains connection, Measurement range, Test setup	53.4-2014 Setup	FCC	IC

7 layers GmbH, Borsigstr. 11 40880 Ratingen, Germany Phone +49 (0)2102 749 0

N/A: Not applicable N/P: Not performed

(responsible for accreditation scope)

Marco Kullik

(responsible for testing and report)
Robert Machulec

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2 Administrative Data

2.1 Testing Laboratory

Company Name: 7layers GmbH

Address: Borsigstr. 11 40880 Ratingen

Germany

This facility has been fully described in a report submitted to the FCC and accepted under the registration number 96716.

This facility has been fully described in a report submitted to the IC and accepted under the registration number: Site# 3699A-1.

The test facility is also accredited by the following accreditation organisation:

Laboratory accreditation no: DAkkS D-PL-12140-01-01

Responsible for accreditation scope: Marco Kullik

Report Template Version: 2016-03-11

2.2 Project Data

Responsible for testing and report: Robert Machulec

Employees who performed the tests: documented internally at 7Layers

Date of Report: 2016-04-29

Testing Period: 2016-04-08 to 2016-04-11

2.3 Applicant Data

Company Name: Impossible B.V.

Address: Hoge Bothofstraat 45

7511 ZA Enschede

Netherlands

Contact Person: Stefanie Koch

2.4 Manufacturer Data

Company Name: please see applicant data

Address:

Contact Person:



3 Test object Data

3.1 General EUT Description

Kind of Device product description	Analog Instant Camera with Bluetooth LE module
Product name	Analog Instant Camera
Туре	I-1, Analog Instant Camera
Declared EUT data by	the supplier
Power Supply Type	DC, USB connector
Comment	-
Nominal Voltage / Frequency	5VDC
Test Voltage / Frequency	5VDC
Highest internal frequency	25MHz
General Description	The equipment under test is an analog instant camera with integrated Bluetooth low energy module for data communication.
Ports	Enclosure; USB connector (connected to AUX1)

The main components of the EUT are listed and described in chapter 3.2 EUT Main components.

3.2 EUT Main components

Sample Name	Sample Code	Description
DE1171001ah02	ah02	Radiated Sample
Sample Parameter		Value
Serial No.	94	
HW Version	I-1 G1	
SW Version	V1.0	
Comment		

 ${\tt NOTE:} The \ short \ description \ is \ used \ to \ simplify \ the \ identification \ of \ the \ {\tt EUT} \ in \ this \ test \ report.$

3.3 Ancillary Equipment

For the purposes of this test report, ancillary equipment is defined as equipment which is used in conjunction with the EUT to provide operational and control features to the EUT. It is necessary to configure the system in a typical fashion, as a customer would normally use it. But nevertheless Ancillary Equipment can influence the test results.



	Details (Manufacturer, Type Model, OUT Code)	Description
-	-	-

3.4 Auxiliary Equipment

For the purposes of this test report, auxiliary equipment is defined as equipment which is used temporarily to enable operational and control features especially used for the tests of the EUT which is not used during normal operation or equipment that is used during the tests in combination with the EUT but is not subject of this test report. It is necessary to configure the system in a typical fashion, as a customer would normally use it. But nevertheless Auxiliary Equipment can influence the test results.

Device	Details (Manufacturer, HW, SW, S/N)	Description
AUX1	, -, - , -	USB Cable, 1.1m
AUX2	, -, - , 000106	AC/DC Adapter, Wicked Chili, 5 V USB
AUX3	, I9305XXUFOA1, KTU84P.I9305XXFNL1 , RF1D3435ZSN	GT-19305
L17MB-P	LG, -, -, 412WAPL0U560	TFT Display EMC TFT 5
Lifebook Eseries E781	Fujitsu, -, -, DSCK013817	Laptop RE
M-BT58	Logitech, -, -, HC60915A2XC	EMC MOUSE 1
PJW1942NA	Fujitsu Ltd., -, -, 13300281B	AC Adapter 3 Laptop RE
RS 6000 USB ON	CHERRY, -, -, G 0000273 2P28	EMC KEYBOARD 1

3.5 EUT Setups

This chapter describes the combination of EUTs and equipment used for testing. The rationale for selecting the EUTs, ancillary and auxiliary equipment and interconnecting cables, is to test a representative configuration meeting the requirements of the referenced standards.

Setup	Combination of EUTs	Description and Rationale
S01_AH02	DE1171001ah02, AUX1, AUX2,	EUT powered by AC/DC adapter
S02_AH02	DE1171001ah02, AUX1, AUX3, L17MB-P, PJW1942NA, Lifebook Eseries E781, M-BT58, RS 6000 USB ON.	Computer periphery setup



3.6 Operating Modes

The EUT is sending data to a smart phone using Bluetooth low energy connection. The EUT are controlled by applicants software "IM_Bluetooth_FCC_Tester"

3.6.1Test Channels

_

3.7 Product labelling

3.7.1FCC ID label

Please refer to the documentation of the applicant.

3.7.2Location of the label on the EUT

Please refer to the documentation of the applicant.



4 Test Results

4.1 Conducted Emissions at AC mains

Standard FCC Part 15 Subpart B

The test was performed according to:

ANSI C63.4-2014

4.1.1Test Description

The test set-up was made in accordance to the general provisions of ANSI C 63.4 The Equipment Under Test (EUT) was setup in a shielded room to perform the conducted emissions measurements in a typical installation configuration. The EUT was powered from $50\mu\text{H}$ || 50 Ohm Line Impedance Stabilization Network (LISN). The LISN's unused connections were terminated with 50 Ohm loads.

The measurement procedure consists of two steps. It is implemented into the EMI test software EMC-32 from R&S.

Step 1: Preliminary scan

Intention of this step is, to determine the conducted EMI-profile of the EUT.

EMI receiver settings:

Detector: Peak – Maxhold & Average
 Frequency range: 150 kHz – 30 MHz

Frequency steps: 2.5 kHzIF–Bandwidth: 9 kHz

- Measuring time / Frequency step: 100 ms (FFT-based)

- Measurement on phase + neutral lines of the power cords

On basis of this preliminary scan the highest amplitudes and the corresponding frequencies relative to the limit are identified. Emissions above the limit and emissions which are in the 10 dB range below the limit are considered.

Step 2: Final measurement

Intention of this step is, to determine the highest emissions with the settings defined in the test specification for the frequencies identified in step 1.

EMI receiver settings:

Detector: Quasi-PeakIF Bandwidth: 9 kHz

- Measuring time: 1 s / frequency

At each frequency determined in step 1, four measurements are performed in the following combinations:

- 1) Neutral lead reference ground (PE grounded)
- 2) Phase lead reference ground (PE grounded)
- 3) Neutral lead reference ground (PE floating)
- 4) Phase lead reference ground (PE floating)

The highest value is reported.



4.1.2Test Requirements / Limits

FCC Part 15, Subpart B, §15.107

Class B:

Frequency (MHz)	QP Limits (dBµV)	AV Limits (dBμV)
0.15 - 0.5	66 - 56	56 - 46
0.5 - 5	56	46
5 - 30	60	50

Class A:

Frequency (MHz)	QP Limits (dBµV)	AV Limits (dBμV)
0.15 - 0.5	79	66
0.5 - 30	73	60

4.1.3Test Protocol

Temperature: 23 °C Air Pressure: 1004 hPa Humidity: 34 %

AC mains connection = via auxiliary equipment, Test setup = stand-alone

Power line	Frequency [MHz]	Level [dBµV]	Detector	Limit [dBµV]	Margin [dB]	
-	-	-	-	-	-	

Temperature: 23 °C Air Pressure: 1004 hPa Humidity: 34 %

AC mains connection = via connected computer device, Test setup = computer periphery

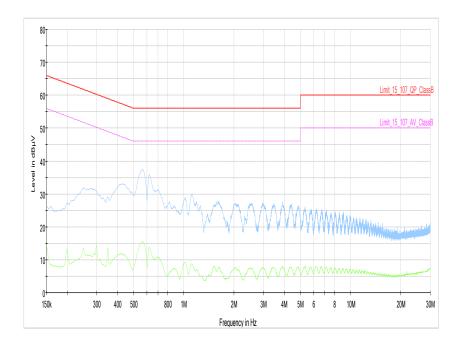
Power line	Frequency [MHz]	Level [dBµV]	Detector	Limit [dBµV]	Margin [dB]
L1	0.2	49.6	QP	65.9	16.3
L1	0.4	40.8	QP	58.8	18.0
L1	0.4	41.6	QP	58.2	16.6
L1	0.5	35.6	QP	56.0	20.5
L1	7.5	39.2	QP	60.0	20.9
L1	17.8	42.3	QP	60.0	17.7
L1	18.7	41.0	QP	60.0	19.0

Remark: Please see next sub-clause for the measurement plot.

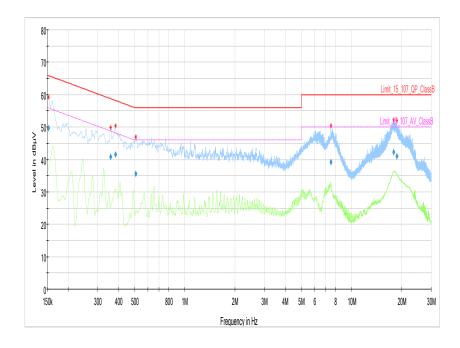


4.1.4Measurement Plot (showing the highest value, "worst case")

AC mains connection = via auxilliary equipment, Test setup = stand-alone



AC mains connection = via connected computer device, Test setup = computer periphery



4.1.5Test Equipment used

Conducted Emissions



4.2 Radiated Emissions

Standard FCC Part 15 Subpart B

The test was performed according to:

ANSI C63.4-2014

4.2.1Test Description

The test set-up was made in accordance to the general provisions of ANSI C63.4 in a typical installation configuration. The Equipment Under Test (EUT) was set up on a non-conductive table $1.0 \times 2.0 \text{ m}^2$ in the semi-anechoic chamber. The influence of the EUT support table that is used between 30-1000 MHz was evaluated.

The measurement procedure is implemented into the EMI test software EMC32 from R&S. Exploratory tests are performed at 3 orthogonal axes to determine the worst-case orientation of a body-worn or handheld EUT. The final test on all kind of EUTs is also performed at 3 axes. A pre-check is performed while the EUT is powered from a DC power source.

1. Measurement above 30 MHz and up to 1 GHz

Step 1: Preliminary scan

This is a preliminary test to identify the highest amplitudes relative to the limit.

Settings for step 1:

- Antenna distance: 3 m

- Detector: Peak-Maxhold / Quasipeak (FFT-based)

- Frequency range: 30 - 1000 MHz

Frequency steps: 30 kHzIF-Bandwidth: 120 kHz

- Measuring time / Frequency step: 100 ms

- Turntable angle range: -180° to 90°

- Turntable step size: 90°

Height variation range: 1 – 3 m
Height variation step size: 2 m

- Polarisation: Horizontal + Vertical

Intention of this step is, to determine the radiated EMI-profile of the EUT. Afterwards the relevant emissions for the final measurement are identified.

Step 2: Adjustment measurement

In this step the accuracy of the turntable azimuth and antenna height will be improved. This is necessary to find out the maximum value of every frequency.

For each frequency, which was determined the turntable azimuth and antenna height will be adjusted. The turntable azimuth will slowly vary by \pm 45° around this value. During this action, the value of emission is continuously measured. The turntable azimuth at the highest emission will be recorded and adjusted. In this position, the antenna height will also slowly vary by \pm 100 cm around the antenna height determined. During this action, the value of emission is also continuously measured. The antenna height of the highest emission will also be recorded and adjusted.

- Detector: Peak - Maxhold

- Measured frequencies: in step 1 determined frequencies

- IF - Bandwidth: 120 kHz

TEST REPORT REFERENCE: MDE_IMPOSSIBLE_1501_FCCb



- Measuring time: 100 ms

- Turntable angle range: \pm 45 ° around the determined value - Height variation range: \pm 100 cm around the determined value

- Antenna Polarisation: max. value determined in step 1

Step 3: Final measurement with QP detector

With the settings determined in step 3, the final measurement will be performed:

EMI receiver settings for step 4:

- Detector: Quasi-Peak (< 1 GHz)

- Measured frequencies: in step 1 determined frequencies

IF – Bandwidth: 120 kHzMeasuring time: 1 s

After the measurement a plot will be generated which contains a diagram with the results of the preliminary scan and a chart with the frequencies and values of the results of the final measurement.

3. Measurement above 1 GHz

The following modifications apply to the measurement procedure for the frequency range above 1 GHz:

Step 1:

The Equipment Under Test (EUT) was set up on a non-conductive support (tilt device) at 1.5 m height in the fully-anechoic chamber.

All steps were performed with one height (1.5 m) of the receiving antenna only.

The EUT is turned during the preliminary measurement across the elevation axis, with a step size of 90 $^{\circ}$.

The turn table step size (azimuth angle) for the preliminary measurement is 45 °.

Step 2:

Due to the fact, that in this frequency range the test is performed in a fully anechoic room, the height scan of the receiving antenna instep 2 is omitted. Instead of this, a maximum search with a step size \pm 45° for the elevation axis is performed.

The turn table azimuth will slowly vary by $\pm 22.5^{\circ}$.

The elevation angle will slowly vary by $\pm 45^{\circ}$

EMI receiver settings (for all steps):

Detector: Peak, AverageIF Bandwidth = 1 MHz

Step 3:

Spectrum analyser settings for step 3:

- Detector: Peak / Average

- Measured frequencies: in step 1 determined frequencies

IF – Bandwidth: 1 MHzMeasuring time: 1 s

4.2.2Test Requirements / Limits

FCC Part 15, Subpart B, §15.109, Radiated Emission Limits

Class B:

Frequency (MHz)	Limit (µV/m)	Measurement distance (m)	Limits (dBµV/m)
30 – 88	100@3m	3	40.0@3m
88 – 216	150@3m	3	43.5@3m
216 – 960	200@3m	3	46.0@3m
960 - 26000	500@3m	3	54.0@3m
26000 - 40000	500@3m	1	54.0@3m



Class A:

Frequency (MHz)	Limit (μV/m)	Measurement distance (m)	Limits (dBµV/m)
30 – 88	90@10m	3	39.1@10m
88 – 216	150@10m	3	43.5@10m
216 – 960	210@10m	3	46.4@10m
960 - 26000	300@10m	3	49.5@10m
26000 - 40000	300@10m	1	49.5@10m

The measured values for Class A and for Class B (> 26 GHz) measurements are corrected with an inverse linear distance extrapolation factor (20 dB/decade).

§15.35(b) ..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit....

Used conversion factor: Limit (dB μ V/m) = 20 log (Limit (μ V/m)/1 μ V/m)

4.2.3Test Protocol

Ambient temperature: 24 °C Air Pressure: 1006 hPa Humidity: 34 %

AC mains connection = via auxiliary equipment, Measurement range = 30 MHz - 1 GHz, Test setup = stand-alone

Spurious Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin to Limit [dB]
30.1	21.6	QP	120.0	40.0	18.4

Ambient temperature: 24 °C
Air Pressure: 1004 hPa
Humidity: 32 %

AC mains connection = via connected computer device, Measurement range = 30 MHz - 1 GHz, Test setup = computer peripheral

Spurious Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin to Limit [dB]
36.0	30.7	QP	120.0	40.0	9.3
43.7	39.2	QP	120.0	40.0	0.9
48.0	28.7	QP	120.0	40.0	11.3
60.0	39.3	QP	120.0	40.0	0.8
63.0	39.5	QP	120.0	40.0	0.5
72.0	32.4	QP	120.0	40.0	7.7
83.9	34.7	QP	120.0	40.0	5.3
119.9	36.8	QP	120.0	43.5	6.7
131.8	31.9	QP	120.0	43.5	11.6
143.8	28.7	QP	120.0	43.5	14.8
215.8	34.3	QP	120.0	43.5	9.2
305.5	33.6	QP	120.0	46.0	12.4

TEST REPORT REFERENCE: MDE_IMPOSSIBLE_1501_FCCb

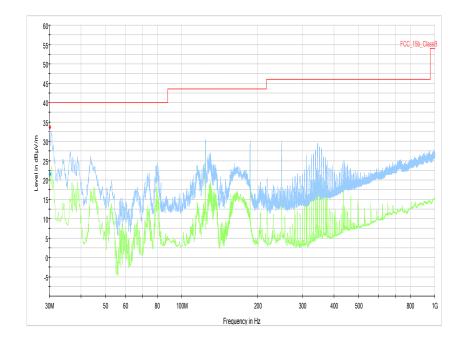


359.7	36.2	QP	120.0	46.0	9.8
515.8	19.4	QP	120.0	46.0	26.6

Remark: Please see next sub-clause for the measurement plot.

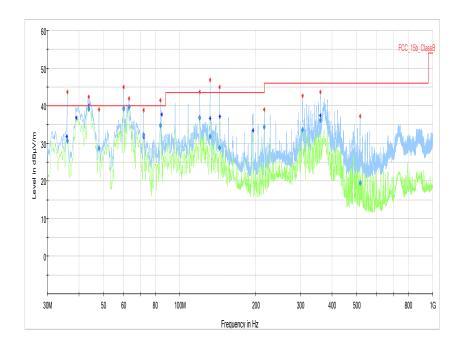
4.2.4Measurement Plot (showing the highest value, "worst case")

AC mains connection = via auxiliary equipment, Measurement range = 30 MHz - 1 GHz, Test setup = stand-alone



AC mains connection = via connected computer device, Measurement range = 30 MHz - 1 GHz, Test setup = computer peripheral





4.2.5Test Equipment used

Radiated Emissions



5 Test Equipment

1 Radiated Emissions

Lab to perform radiated emission tests

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Calibration Due
	3160-09	Standard Gain / Pyramidal Horn Antenna 26.5 GHz	EMCO Elektronic GmbH	00083069	
	WHKX 7.0/18G- 8SS	High Pass Filter	Wainwright	09	
	Fully Anechoic Room	8.80m x 4.60m x 4.05m (I x w x h)	Albatross Projects	P26971-647- 001-PRB	
	AM 4.0	Antenna mast	Maturo GmbH	AM4.0/180/119 20513	
	ESR 7	EMI Receiver / Spectrum Analyzer	Rohde & Schwarz	101424	2016-11-13
	Anechoic Chamber	10.58 x 6.38 x 6.00 m ³	Frankonia	none	2017-01-09
	ESIB 26	Spectrum Analyzer	Rohde & Schwarz	830482/004	2017-12-08
	Tilt device Maturo (Rohacell)	Antrieb TD1.5- 10kg	Maturo GmbH	TD1.5- 10kg/024/3790 709	
	AS 620 P	Antenna mast	HD GmbH	620/37	
	NRV-Z1	Sensor Head A	Rohde & Schwarz	827753/005	2016-05-11
	JS4-18002600-32- 5P	Broadband Amplifier 18 GHz - 26 GHz	Miteq	849785	
	JS4-00101800-35- 5P	Broadband Amplifier 30 MHz - 18 GHz	Miteq	896037	
	HL 562	Ultralog new biconicals	Rohde & Schwarz GmbH & Co. KG	830547/003	2018-06-30
	Opus10 THI (8152.00)	3.0	Lufft Mess- und Regeltechnik GmbH	12482	2017-03-10
	JS4-00102600-42- 5A	Broadband Amplifier 30 MHz - 26 GHz	Miteq	619368	



Ref.No.	Device Name	Description	Manufacturer	Serial Number	Calibration Due
	HFH2-Z2	Loop Antenna	Rohde & Schwarz GmbH & Co. KG	829324/006	2017-11-27
	FSW 43	Spectrum Analyzer	Rohde & Schwarz	103779	2016-11-17
	Opus10 TPR (8253.00)	sure	Lufft Mess- und Regeltechnik GmbH	13936	2017-02-27
	Chroma 6404	AC Power Source	Chroma ATE INC.	64040001304	
	3160-10	Standard Gain / Pyramidal Horn Antenna 40 GHz	EMCO Elektronik GmbH	00086675	
	HL 562 Ultralog	Logper. Antenna	Rohde & Schwarz GmbH & Co. KG	100609	2019-04-14
	HF 907	Double-ridged horn	Rohde & Schwarz GmbH & Co. KG	102444	2018-05-11

2 Conducted Emissions

Shielded Room 02

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Calibration Due
	ESH 3-Z5		Rohde & Schwarz	828304/029	
	ESR 7	EMI Receiver / Spectrum Analyzer	Rohde & Schwarz	101424	2016-11-13
	ISN T800	Impedance Stabilization Network	Teseq	36159	
	EP 1200/B, NA/B1	Amplifier with integrated variable Oscillator	Spitzenberger & Spieß	B6278	2018-07-23
	ESIB 26	Spectrum Analyzer	Rohde & Schwarz	830482/004	2017-12-08
	Opus10 THI (8152.00)	3.5	Lufft Mess- und Regeltechnik GmbH	7489	2017-02-27
	ESH 3-Z5	Two-Line V- Network	Rohde & Schwarz	829996/002	



Ref.No.	Device Name	Description	Manufacturer	Serial Number	Calibration Due
	NRVS	Powermeter	Rohde & Schwarz GmbH & Co. KG	836333/064	
	Opus10 TPR (8253.00)	sure	Lufft Mess- und Regeltechnik GmbH	13936	2017-02-27
	CMD 55	Digital Radio Communicatio n Tester	Rohde & Schwarz	831050/020	2017-12-02
	ESH 3-Z6	One-Line V- Network	Rohde & Schwarz	100489	
	ESH 3-Z6x	ESH 3-Z6	Rohde & Schwarz	100570	
	Chroma 6404	AC Power Source	Chroma ATE INC.	64040001304	
	CMW 500	CMW 500	Rohde & Schwarz	107500	2017-07-12



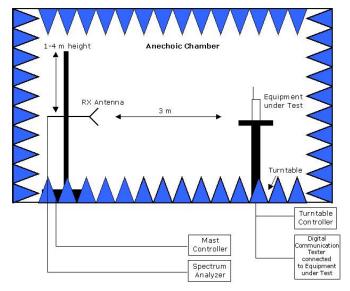
6 Photo Report

Please see separate photo report.



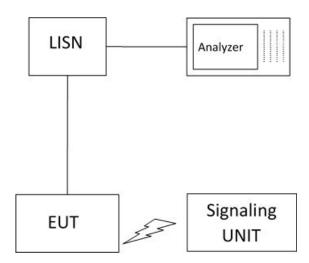
7 Setup Drawings

Setup Drawings



Remark: Depending on the frequency range suitable antenna types, attenuators or preamplifiers are used.

Setup in the Anechoic chamber. For measurements below 1 GHz the ground was replaced by a conducting ground plane.



Setup in the shielded room for conducted measurements at AC mains port



8 Measurement Uncertainties

Test Case	Parameter	Uncertainty
Conducted Emissions at AC mains	Voltage	± 3.4 dB
Radiated Emissions	Field Strength	± 5.5 dB