

EMC TEST REPORT					
	FCC 47 CFR Part 15B Industry Canada ICES-003				
Electromagr	Electromagnetic compatibility - Unintentional radiators				
Report Reference No	G0M-1702-6295-EF0215B-V01				
Testing Laboratory	Eurofins Product Service GmbH				
Address:	Storkower Str. 38c 15526 Reichenwalde Germany				
Accreditation:					
	A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, RegNo.: 96970 IC OATS Filing assigned code: 3470A				
Applicant's name:	eResearchTechnology GmbH				
Address:	Sieboldstrasse 3 97230 Estenfeld GERMANY				
Test specification:					
Standard:	47 CFR Part 15 Subpart B ICES-003, Issue 6:2016 ANSI C63.4:2014				
Equipment under test (EUT):					
Product description	Spirometer				
Model No.	SpiroSphere - Main Unit				
Additional Models	None				
Hardware version	04.04.03				
Firmware / Software version	Jet_Lib + Test_APP 0.14.0 ERT App: sd_SpiroSpherePackage-v1.1.19tgz				
	FCC-ID: 2AAUFSPS001 IC: 11335A-SPS001				
Test result	Passed				



Possible test case verdicts:				
- not applicable to test object		N/A		
- test object does meet the requirement.	· · · · · ·	P (Pass)		
- test object does not meet the requirem	ent:	F (Fail)		
Testing:				
Date of receipt of test item	:	2017-04-19		
Date (s) of performance of tests	:	2017-04-19 - 201	17-04-21	
Compiled by:	Marco Belz		ND INCO	
Tested by (+ signature):	Andreas Pflug/	Marco Belz	S. K. M. Kel	
Approved by (+ signature) : Deputy Head of Lab	Jens Marquard	t	Ja Ky M	
Date of issue:	2017-05-12			
Total number of pages:	42			
General remarks:				
The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.				
laboratory.				
Additional comments:				



Version History

Versi	on Issue Date	Remarks	Revised by
V01	2017-05-12	Initial Release	



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1 Equipment (Test item) Description

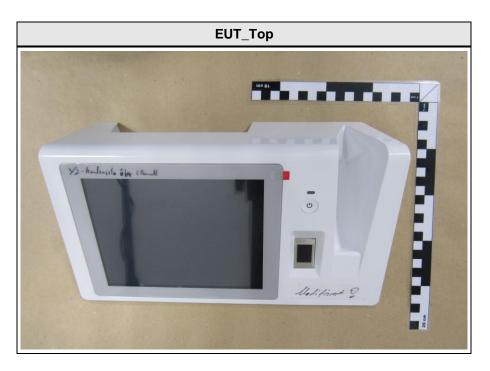
Description	Spirometer			
Model	SpiroSphere			
Additional Models	None			
Serial number	0000053			
Hardware version	04.04.03			
Software / Firmware version	Jet_Lib + Test_APP 0.14.0 ERT App: sd_SpiroSpherePackage-v1.1.19tgz			
FCC-ID	2AAUFSPS001			
IC	11335A-SPS001			
Power supply	5 VDC via AC/DC Ada	pter		
AC/DC-Adaptor	Model : GTM91099-3009-4.0-T2 2MOPP Manufacturer : GlobTeck®, Inc. Input : 100-240VAC / 50-60Hz Output : 5 VDC / 6A			
	Туре	МоСо		
	Model	HL8548		
	Manufacturer	Sierra Wireless		
	HW Version	Not specified		
Radio module	SW Version	5.5.14.0 or higher		
	SN	HD646601781710		
	FCC-ID	N7NHL8548		
	IC	2417C-HL8548		
	IMEI	359515058390430		
	Туре	Wifi/BT		
	Model	WL18 MODGB		
	Manufacturer	Texas Instruments		
	HW Version	n/a		
Radio module	SW Version	n/a		
	SN	n/a		
	FCC-ID	Z64-WL18SBMOD		
	IC	451I-WL18SBMOD		
	IMEI	n/a		



Manufacturer	eResearchTechnology GmbH Sieboldstrasse 3 97230 Estenfeld GERMANY
Highest emission frequency	Fmax [MHz] = 2400
Device classification	Class B
Equipment type	Tabletop
Number of tested samples	1

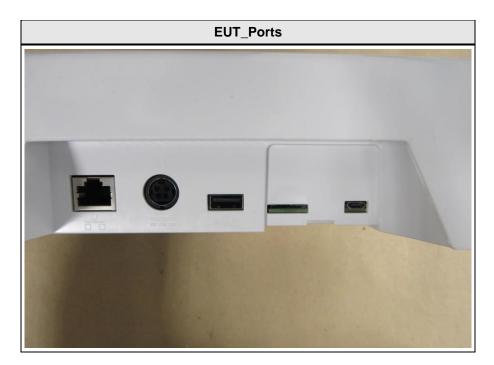


1.1 Photos – Equipment external



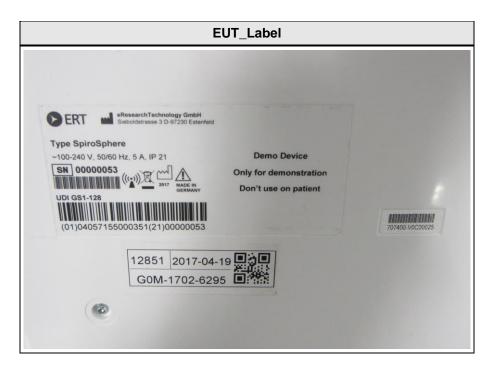


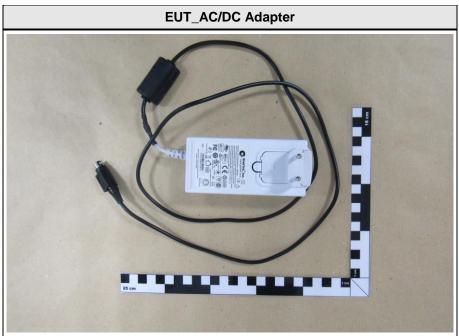




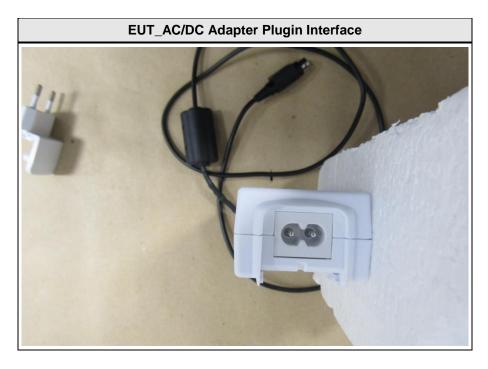






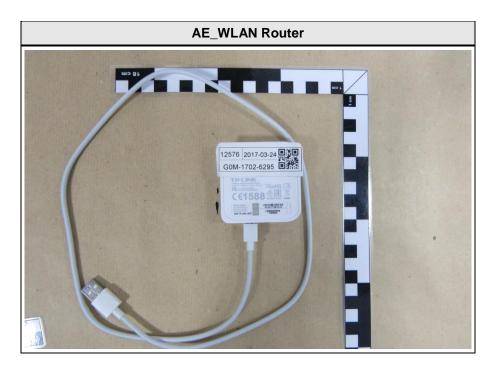






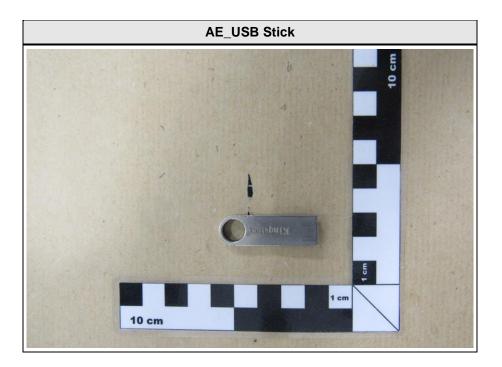






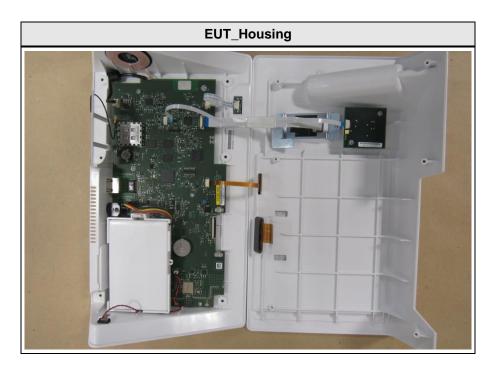


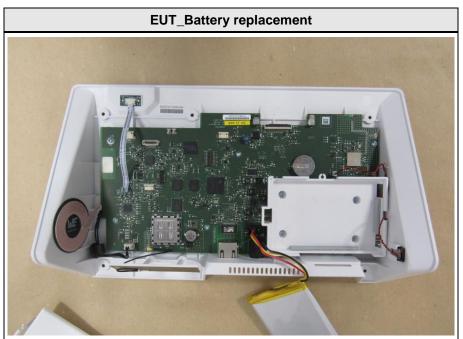




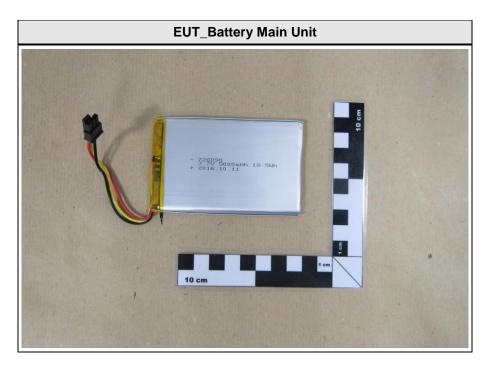


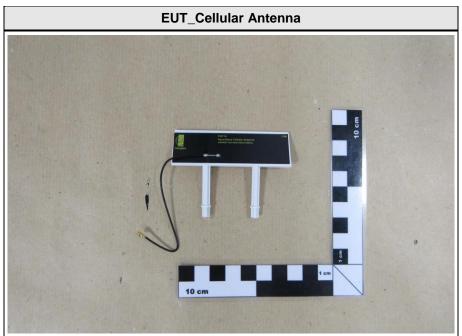
1.2 Photos – Equipment internal



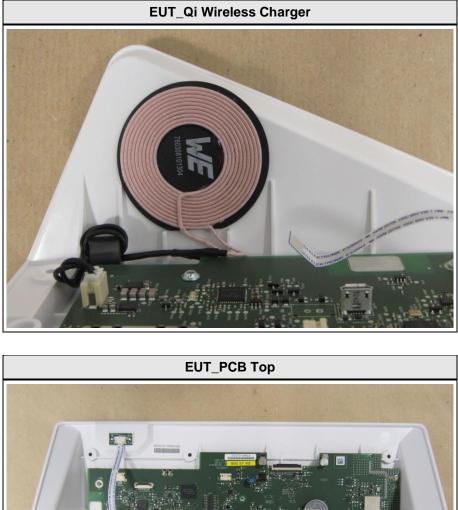




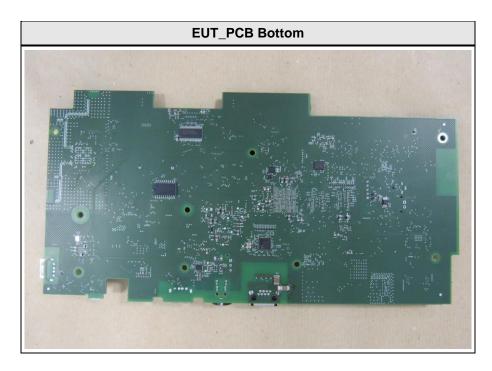


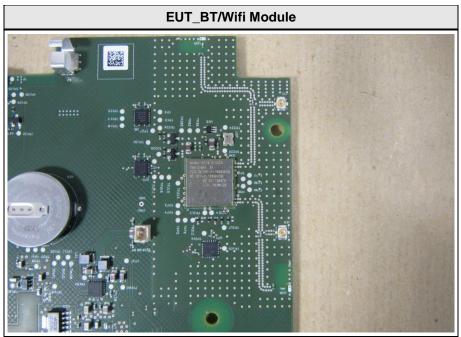




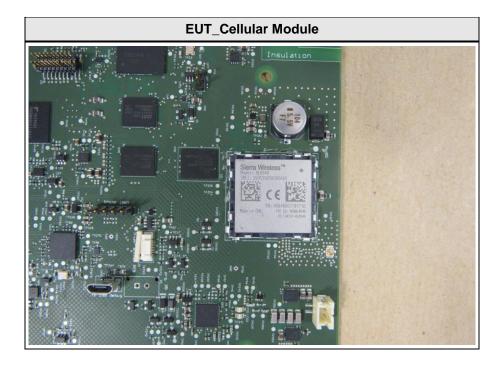






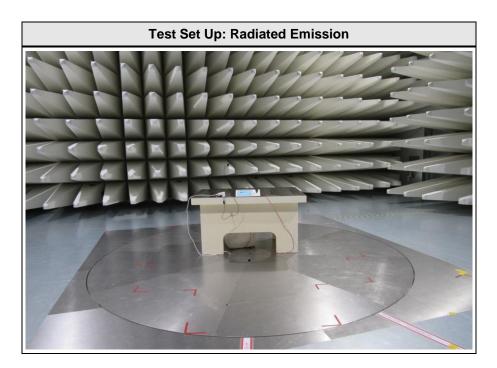


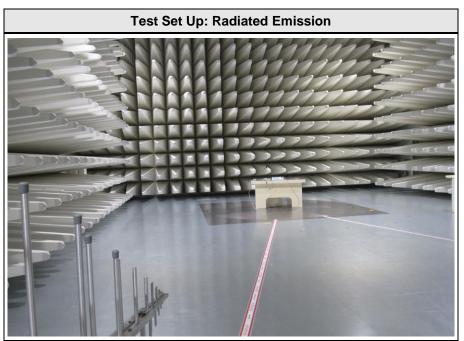




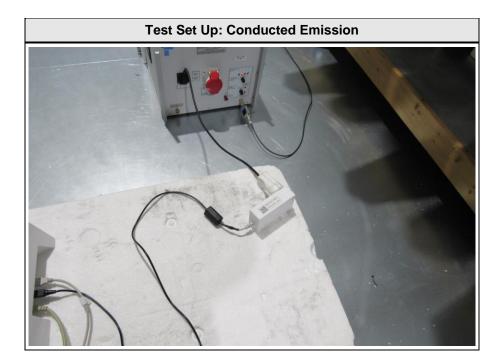


1.3 Photos – Test setup











1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments (e.g. serial no.)		
AE	GSM-Tester	Rohde & Schwarz	CMU200	EF00304		
AE	Sensor Unit	eResearch	SpiroSphere	0000022		
AE	Antenna	Huber + Suhner AG	13.09.17.0008			
AE	Notebook	Lenovo	SL510	Inv: Mexx0173		
AE	WLAN Router	TP-Link	TL-WR802W	FCC: TE7WR802NV2		
*Note: Use	*Note: Use the following abbreviations:					
AE :	AE : Auxiliary/Associated Equipment, or					
SIM : Simulator (Not Subjected to Test)						
CABL :	CABL : Connecting cables					

1.5 Input / Output Ports

Port #	Name	Туре*	Max. Cable Length	Cable Shielded	Comments (e.g. Cat. of Cable)
1	Power	AC	> 3m	No	
2	USB	I/O	< 3 m	Yes	#of ports 2
3	Sim Card Interface	I/O	n/a	n/a	Service only
4	USB	I/O	< 3 m	Yes	Service only
5	Ethernet	TP	> 3 m	Yes	CAT 5e
*Note: Use the following abbreviations:					
AC : AC power port					

DC : DC power port

N/E : Non electrical

I/O : Signal input or output port

TP : Telecommunication port



1.6 Operating Modes and Configurations

Mode #	Description
1	WLAN, BT, GSM 850 (BCCH 162, MSG 3) active; cont. ping; MainUnit charging;
2	WLAN, BT, GSM 850 (BCCH 162, MSG 3) active; cont. ping; MainUnit charging + SensorUnit charging;

Configuration #	EUT Configuration
	MainUnit was controlled via PUTTY; TestApp, JetApp was running on MainUnit; Sensor Unit was connected via Bluetooth; continuous measurement active; measured values were observed via WLAN connection to Notebook; cont. ping on Ethernet; GSM-Link to GSM-Tester.



1.7 Test Equipment Used During Testing

Measurement Software						
Description Manufacturer Name Version						
EMC Test Software Dare Instruments Radimation 2016.1.10						

Conducted emissions SR1					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	EF00182		
AMN	R&S	ESH3-Z5	EF00036		
EMI Test Receiver	R&S	ESR7	EF00943		
Cable	-	RG223/U	-	System Cal.	System Cal.

Radiated emissions AC1					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Biconical Antenna	R&S	HK 116	EF00030		
LPD Antenna	R&S	HL 223	EF00187		
Horn antenna	Schwarzbeck	BBHA 9120D	EF00018		
MXE EMI Receiver	Keysight Technologies	N9038A- 526/WXP	EF01070		
RF Cable			-	System Cal.	System Cal
RF Cable			-	System Cal.	System Cal

Conducted emissions AC6					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
LISN	Schwarzbeck	NSLK 8128	EF00975		
EMI Test Receiver	Rohde & Schwarz Vertriebs GmbH	ESU26	EF00887		
Pulse Limiter	R&S	ESH3-Z2	EF01063		
Cable	-	RG223/U	-	System Cal.	System Cal.

Radiated emissions AC6					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
TRILOG Broadband Antenna	Schwarzbeck	VULB 9162	EF00978		
Double-Ridged Guide Antenna	ETS-Lindgren	3117	EF00976		
EMI Test Receiver	R&S	ESU26	EF00887		
RF Cable	Huber & Suhner	Sucoflex 106	-	System Cal.	System Cal
RF Cable	Huber & Suhner	Multiflex 141	-	System Cal.	System Cal



1.8 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in $dB\mu V$. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

Reading on Analyzer ($dB\mu V$) + A.F. (dB) = Net field strength ($dB\mu V/m$)

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of $dB\mu V/m$). The FCC limits are given in units of $\mu V/m$. The following formula is used to convert the units of $\mu V/m$ to $dB\mu V/m$:

Limit (dB
$$\mu$$
V/m) = 20*log (μ V/m)

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

 $\begin{array}{rcl} \mbox{Reading} & + & \mbox{AF} & = & \mbox{Net Reading} & : & \mbox{Net reading} - \mbox{FCC limit} & = \mbox{Margin} \\ \mbox{21.5 dB} \mu V + & \mbox{26 dB} & = & \mbox{47.5 dB} \mu V / \mbox{m} & : & \mbox{47.5 dB} \mu V / \mbox{m} - \mbox{57.0 dB} \mu V / \mbox{m} & = -\mbox{9.5 dB} \end{array}$



2 Result Summary

FCC 47 CFR Part 15B, Industry Canada ICES-003				
Product Specific Standard	Requirement – Test	Reference Method	Result	Remarks
47 CFR 15.109 ICES-003 Item 6.2	Radiated emissions	ANSI C 63.4	PASS	
47 CFR 15.107 ICES-003 Item 6.1	AC power line conducted emissions	ANSI C63.4	PASS	
Remarks:	·		• •	



3 Test Conditions and Results

3.1 Test Conditions and Results – Radiated emissions

Radiated emissions acc. FCC 47 CFR 15.109 / ICES-003 Verdie				Verdict:	PASS		
Laboratory	Parameters:	Required prior to the test		During the test			
Ambient T	emperature		15 to 35 °C	22 °C +/- 2 K			
Relative	Humidity		30 to 60 %	34 % +/- 3 %			
Test accordi	ng referenced		Referenc	e Metho	d		
	dards		ANSI	C63.4			
Sample is tested	with respect to the		Equipme	ent class	;		
requirements of th	ne equipment class	Class B					
Test frequency ran	ge determined from	Highest emission frequency					
	sion frequency	Fmax [MHz] = 2400					
Fully configured sa	ample scanned over	Frequency range					
the following fi	requency range	30 MHz to 15 GHz					
Operati	ng mode	1/2					
Config	juration	1					
	L	imits and	results Class B				
Frequency [MHz]	Quasi-Peak [dBµV/r	n] Result	Average [dBµV/m]	Result	Peak [dBµV/m]	Result	
30 – 88	40	PASS	-		-	-	
88 – 216	43.5	PASS	-		-	-	
216 – 960	46	PASS	-		-	-	
960 – 1000	54	PASS	-		-	-	
> 1000	-	-	54	PASS	74	PASS	
Comments:		•					



Test Procedure:

The test site is in accordance with ANSI C63-4:2014 requirements and is listed by FCC. The measurement procedure is as follows:

Exploratory measurement:

- The EUT was placed on a non-conductive table at a height of 0.8m.
- The EUT and support equipment, if needed, were set up to simulate typical usage.
- Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage.
- The antenna was placed at a distance of 3 or 10 m.
- The received signal was monitored at the measurement receiver.
 - Cables not bundled were manipulated within the range of likely arrangements to produce the highest emission amplitude
 - To maximize the suspected emissions the EUT is rotated 360 degrees. If the signal exceeds the previous amplitude, go back to the corresponding azimuth and manipulate the cables again for maximizing the emissions if possible.
 - Move the antenna from 1 to 4m to maximize the suspected highest amplitude signal.

• This procedure has to be performed in both antenna polarizations, horizontal and vertical.

• The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 1.3.

Final measurement:

- The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver
- A biconical antenna was used for the frequency range 30 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast
- The EUT and cable arrangement were based on the exploratory measurement results
- Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.
- The test data of the worst-case conditions were recorded and shown on the next pages.

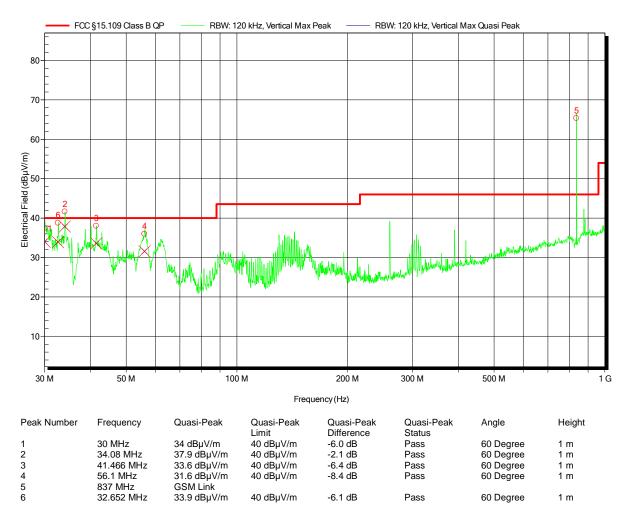


Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

Applicant:	eResearchTechnology GmbH
EUT Name:	Spirometer
Model:	SpiroSphere - Main Unit
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Belz
Test Conditions:	Tnom: 22°C, Unom: 120 VAC 60 Hz
Antenna:	Schwarzbeck VULB 9162, Vertical
Measurement distance:	10 m
Mode:	1
Test Date:	2017-04-19
Note:	

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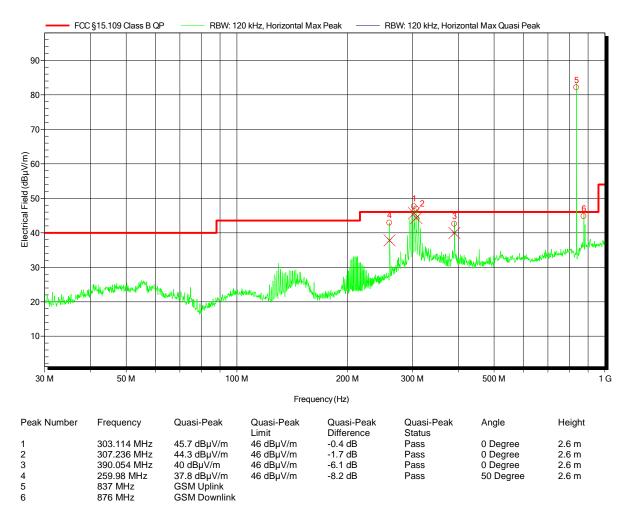


Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

Applicant:	eResearchTechnology GmbH
EUT Name:	Spirometer
Model:	SpiroSphere - Main Unit
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Belz
Test Conditions:	Tnom: 22°C, Unom: 120 VAC 60 Hz
Antenna:	Schwarzbeck VULB 9162, Horizontal
Measurement distance:	10 m
Mode:	1
Test Date:	2017-04-19
Note:	

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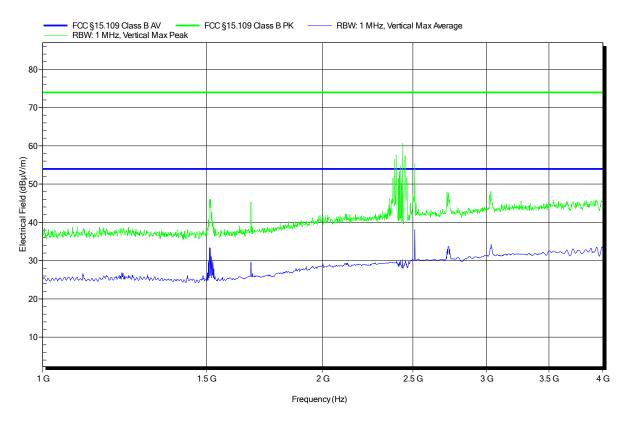


Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

Applicant:	eResearchTechnology GmbH
EUT Name:	Spirometer
Model:	SpiroSphere - Main Unit
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Belz
Test Conditions:	Tnom: 22°C, Unom: 120 VAC 60 Hz
Antenna:	ETS-Lindgren 3117, Vertical
Measurement distance:	3 m
Mode:	1
Test Date:	2017-04-19
Note:	

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Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

FCC §15.109 Class B AV FCC §15.109 Class B PK RBW: 1 MHz, Horizontal Max Average RBW: 1 MHz, Horizontal Max Peak 80 70 60 Electrical Field (dBμV/m) interesting the second second and the second 30 20 10 1.5 G 2.5 G 3 G 3.5 G 2 G 1 G 4 G Frequency (Hz)

Test Report No.: G0M-1702-6295-EF0215B-V01

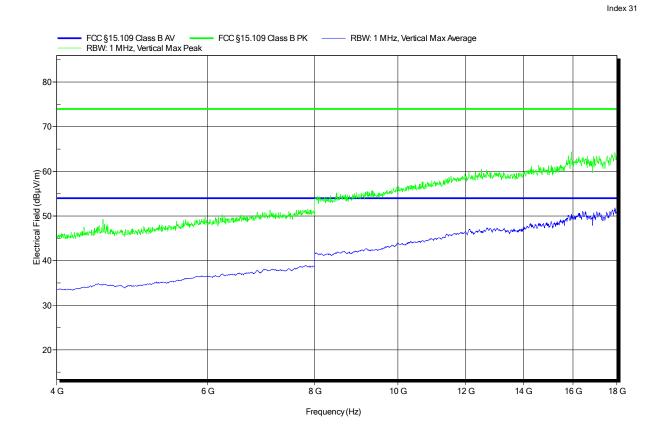
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Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

Applicant: EUT Name: Model: Test Site: Operator: Test Conditions: Antenna: Measurement distance: Mode: Test Date:	eResearchTechnology GmbH Spirometer SpiroSphere - Main Unit Eurofins Product Service GmbH Mr. Belz Tnom: 22°C, Unom: 120 VAC 60 Hz ETS-Lindgren 3117, Vertical 3 m 1 2017-04-19
Test Date:	2017-04-19
Note:	

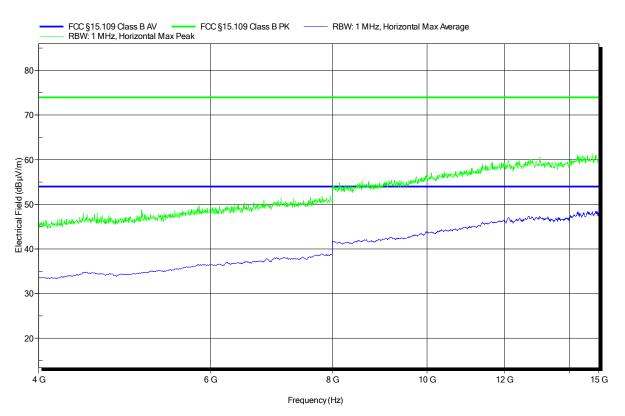




Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

Applicant: EUT Name: Model: Test Site: Operator: Test Conditions: Antenna: Measurement distance: Mode: Test Date:	eResearchTechnology GmbH Spirometer SpiroSphere - Main Unit Eurofins Product Service GmbH Mr. Belz Tnom: 22°C, Unom: 120 VAC 60 Hz ETS-Lindgren 3117, Horizontal 3 m 1 2017-04-19
Test Date:	2017-04-19
Note:	



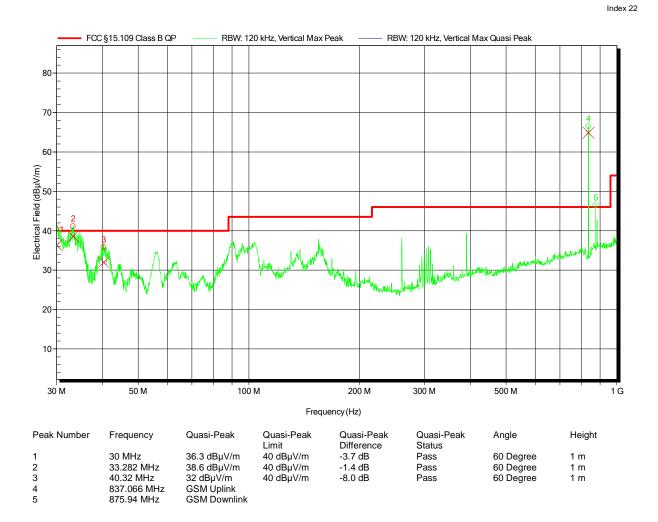
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Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

Applicant: EUT Name: Model: Test Site: Operator: Test Conditions: Antenna: Measurement distance: Mode:	eResearchTechnology GmbH Spirometer SpiroSphere - Main Unit Eurofins Product Service GmbH Mr. Belz Tnom: 22°C, Unom: 120 VAC 60 Hz Schwarzbeck VULB 9162, Vertical 10 m 2
Mode:	2
Test Date:	2017-04-19
Note:	





Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

Applicant: EUT Name: Model: Test Site: Operator: Test Conditions: Antenna: Measurement distance: Mode:	eResearchTechnology GmbH Spirometer SpiroSphere - Main Unit Eurofins Product Service GmbH Mr. Belz Tnom: 22°C, Unom: 120 VAC 60 Hz Schwarzbeck VULB 9162, Horizontal 10 m 2
Test Date:	2017-04-19
Note:	

FCC §15.109 Class B QP RBW: 120 kHz, Horizontal Max Peak - RBW: 120 kHz, Horizontal Max Quasi Peak ____ 90 5 80 70 Electrical Field (dBµV/m) 30 The House Mun -20 10 50 M 100 M 200 M 300 M 500 M 30 M 1 G Frequency (Hz) Peak Number Quasi-Peak Quasi-Peak Quasi-Peak Quasi-Peak Height Frequency Angle Limit Difference Status 303.312 MHz 44.1 dBµV/m 46 dBµV/m -2.0 dB Pass 30 Degree 2.6 m 1 2 3 2.6 m 2.6 m 307.38 MHz 42.9 dBµV/m 46 dBµV/m -3.1 dB Pass 30 Degree 390.174 MHz 260.04 MHz 30 Degree 46 dBµV/m -7.6 dB Pass 38.4 dBµV/m 41 dBµV/m GSM Uplink 4 5 46 dBµV/m -5.1 dB Pass 50 Degree 2.6 m 837 MHz

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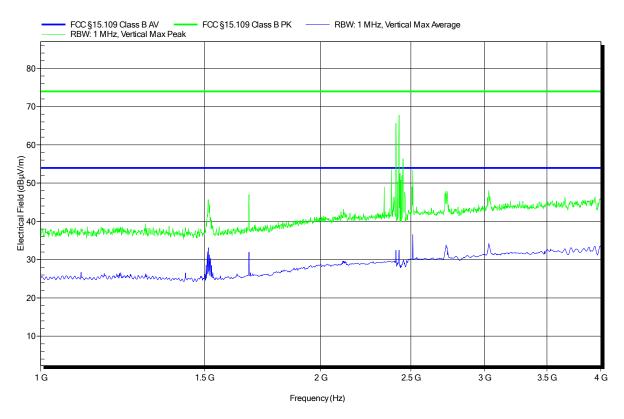


Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

Applicant:	eResearchTechnology GmbH
EUT Name:	Spirometer
Model:	SpiroSphere - Main Unit
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Belz
Test Conditions:	Tnom: 22°C, Unom: 120 VAC 60 Hz
Antenna:	ETS-Lindgren 3117, Vertical
Measurement distance:	3 m
Mode:	2
Test Date:	2017-04-19
Note:	

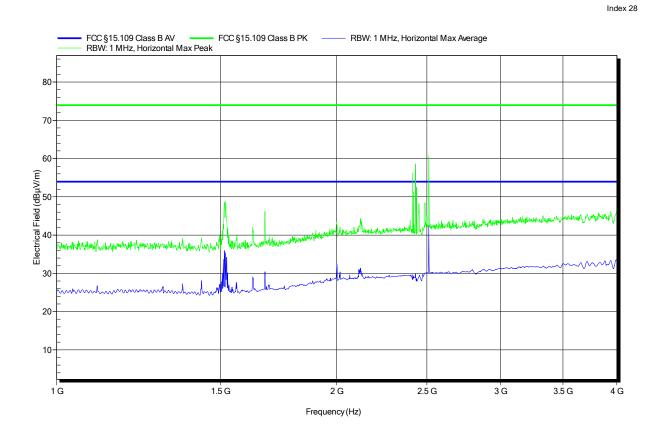
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Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

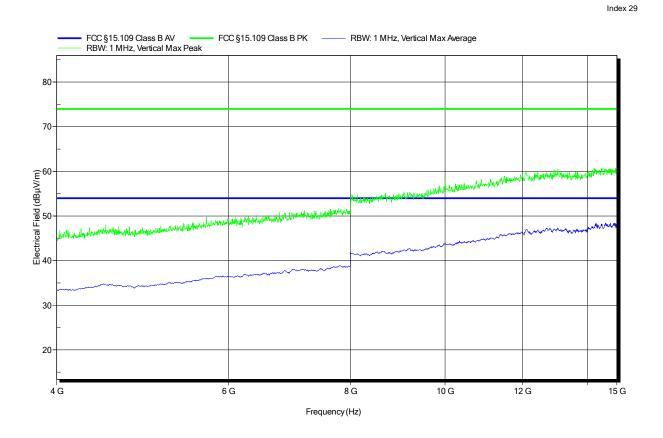




Radiated emissions according to FCC 15B

Project number: G0M-1702-6295

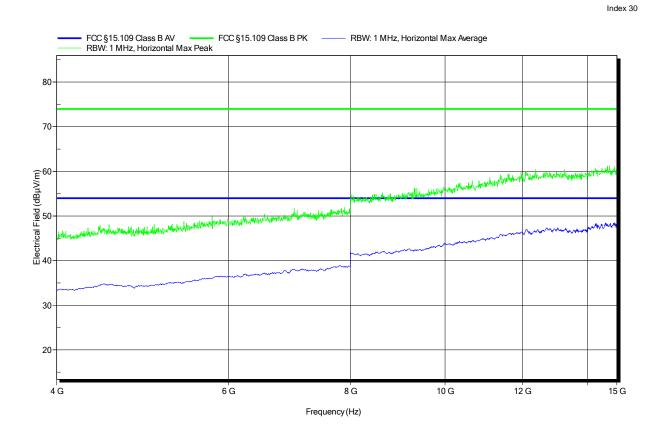
Applicant: EUT Name: Model: Test Site: Operator: Test Conditions: Antenna: Measurement distance: Mode: Test Date:	eResearchTechnology GmbH Spirometer SpiroSphere - Main Unit Eurofins Product Service GmbH Mr. Belz Tnom: 22°C, Unom: 120 VAC 60 Hz ETS-Lindgren 3117, Vertical 3 m 2
Test Date:	2017-04-19
Note:	





Radiated emissions according to FCC 15B

Project number: G0M-1702-6295





3.2 Test Conditions and Results – AC power line conducted emissions

Conducted emissions acc. FCC 47 CFR 15.107 / ICES-003 Verdict: F					Verdict: PASS	
Laboratory Para	meters:	Req	uired prior to the t	est	Durin	g the test
Ambient Temperature			15 to 35 °C		22 °C +/- 2 K	
Relative Humidity			30 to 60 %		34 % +/- 3 %	
Test according referenced standards		Reference Method				
		ANSI C63.4				
Fully configured sample scanned over the following frequency range		Frequency range				
		0.15 MHz to 30 MHz				
Sample is tested with respect to the requirements of the equipment class		Equipment class				
		Class B				
Points of Appli	Points of Application		Application Interface			
AC Mains		LISN				
Operating mode		2				
Configuration		1				
Limits and results Class B						
Frequency [MHz]	Quasi-Peak [dBµV]	Result	Aver	age [dBµV]	Result
0.15 to 5	66 to 56	66 to 56*		5	6 to 46*	PASS
0.5 to 5	56	56			46	PASS
5 to 30	60	60			50	PASS
Comments: * Limit decreases linearly with the logarithm of the frequency.						



Test Procedure:

The test site is in accordance with ANSI C63-4:2014 requirements and is listed by FCC. The measurement procedure is as follows:

Exploratory measurement:

- The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)
- The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
- The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length).
- The LISN measurement port was connected to a measurement receiver
- I/O cables were bundled not longer than 0.4 m
- Measurement was performed in the frequency range 0.15 30MHz on each current-carrying conductor
- To maximize the emissions the cable positions were manipulated
- The worst configuration of EUT and cables is shown on a test setup picture at item 1.3

Test Procedure:

Final measurement:

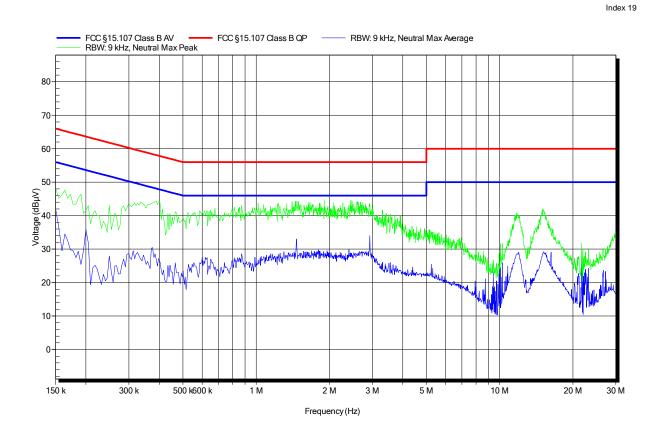
- The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)
- The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
- The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length).
- The LISN measurement port was connected to a measurement receiver
- The EUT and cable arrangement were based on the exploratory measurement results
- The test data of the worst-case conditions were recorded and shown on the next pages.



Conducted emissions according to FCC 15B

Project number: G0M-1702-6295

Applicant: EUT Name: Model: Test Site: Operator: Test Conditions: LISN: Mode: Test Date:	eResearchTechnology GmbH Spirometer SpiroSphere - Main Unit Eurofins Product Service GmbH Mr. Belz Tnom: 22°C, Unom: 120 VAC Schwarzbeck NSLK 8128 (N) 2 2017-04-20
	2017-04-20
Note:	





Conducted emissions according to FCC 15B

Project number: G0M-1702-6295

Applicant: EUT Name: Model: Test Site: Operator: Test Conditions: LISN: Mode: Test Date:	eResearchTechnology GmbH Spirometer SpiroSphere - Main Unit Eurofins Product Service GmbH Mr. Belz Tnom: 22°C, Unom: 120 VAC Schwarzbeck NSLK 8128 (L) 2 2017-04-20
	2017-04-20
Note:	

FCC §15.107 Class B AV RBW: 9 kHz, Line 1 Max Peak FCC §15.107 Class B QP RBW: 9 kHz, Line 1 Max Average 80 70 60-50 Voltage (dBµV) HUMAN ٨N IΝ 30 m W How My will Willy 20 10 0 150 k 300 k 500 k600 k 1 M 2 M 3 м 5 M 10 M 20 M 30 M Frequency (Hz)

Test Report No.: G0M-1702-6295-EF0215B-V01

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