

#### **FCC TEST REPORT**

FCC 47 CFR Part 22H ISED RSS-132, Issue 2

#### Cellular Telephones Operating in the Bands 824-849MHz and 869-894MHz

FCC 47 CFR Part 24E ISED RSS-133, Issue 5

#### **2GHz Personal Communication Services**

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, Reg.-No.: 96970

IC OATS Filing assigned code: 3470A

Applicant's name ...... eResearch Technology GmbH

Address .....: Sieboldstrasse 3

97230 Estenfeld GERMANY

Test specification:

Standard.....: 47 CFR Part 22H, 47 CFR Part 24E

RSS-132, Issue 3: 2013-01, RSS-133, Issue 6: 2013-01

Test scope.....: partial Radio compliance test

**Equipment under test (EUT):** 

Product description Asthma Monitor AM3

Model No. AM3 Option G+

Additional Model(s)

Brand Name(s)

Hardware version

None

1.0

Firmware / Software version 9.40

FCC-ID: 2AAUFAM3G02 IC: 11335A-AM3G02

Test result Passed



## **Product Service**

Possible test case verdicts:

- neither assessed nor tested ...... : N/N

- required by standard but not appl. to test object .....: N/A

- required by standard but not tested .....: N/T

- not required by standard for the test object .....: N/R

- test object does meet the requirement ...... P (Pass)

- test object does not meet the requirement ...... F (Fail)

Testing:

Test Lab Temperature ...... 20 – 23 °C

Test Lab Humidity..... 32 – 38 %

Date (s) of performance of tests...... 2017-01-04 - 2017-01-09

Compiled by ...... Matthias Handrik

Date of issue ...... 2017-01-31

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Total number of pages ..... 28

#### General remarks:

(Head of Lab)

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.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

#### Additional comments:

Test case reduction on radiated measurements only is based on the requirements for host integration for full modular approved transmitter modules (KDB 996369 D02) used by the EUT. The EUT uses a module with full modular approval according to FCC and ISED rules. For details about the radio module see EUT description in section 1..



# **Version History**

Version	Issue Date	Remarks	Revised by
01	2017-01-31	Initial Release	



# **REPORT INDEX**

1	EQUIPMENT (TEST ITEM) DESCRIPTION	5
1.1	Photos – Equipment External	7
1.2	Photos – Equipment internal	9
1.3	Photos – Test setup	10
1.4	Supporting Equipment Used During Testing	11
1.5	Test Modes	12
1.6	Test Equipment Used During Testing	13
1.7	Sample emission level calculation	14
2	RESULT SUMMARY	15
3	TEST CONDITIONS AND RESULTS	16
3.1	Test Conditions and Results – Occupied Bandwidth	16
3.2	Test Conditions and Results – Effective radiated power / Equivalent isotropic radiated power	23
3.3	Test Conditions and Results – Transmitter radiated emissions	25
3.4	Test Conditions and Results – Receiver radiated emissions	27



# 1 Equipment (Test item) Description

Description	Asthma Monitor AM3				
Model	AM3 Option G+				
Additional Model(s)	None				
Brand Name(s)	None				
Serial number	None				
Hardware version	1.0				
Software / Firmware version	9.40				
PMN	N/A				
HVIN	АМЗ Ор	tion G+			
FVIN	N/A				
HMN	N/A				
FCC-ID	2AAUFA	M3G02			
IC	11335A-	-AM3G0	2		
Equipment type	End product				
Equipment classification	Portable Device (Human Body distance < 20 cm)			ce < 20 cm)	
Radio type	Transceiver				
Radio technology	UMTS FDD II / FDD V				
Operating frequency range	UMTS FDD II TX = 1852.4 - 1907.6 MHz, RX = 1932.4 - 1987.6 MHz UMTS FDD V TX = 826.4 - 846.6 MHz, RX = 871.4 - 891.6 MHz				
Assigned frequency band			350 - 1910 MHz, 193 24 - 849 MHz, 869 -		
	F <sub>LOW</sub>	CH: 92	63 UL: 1852.6 MHz	CH : 9663 DL: 1932.6 MHz	
Main test frequencies FDD II	F <sub>MID</sub>	CH: 94	00 UL: 1880 MHz	CH: 9800 DL: 1960 MHz	
	F <sub>HIGH</sub>	CH: 95	37 UL: 1907.4 MHz	CH: 9937 DL: 1987.4 MHz	
	F <sub>LOW</sub>	CH: 41	33 UL: 826.6 MHz	CH: 4358 DL: 871.6 MHz	
Main test frequencies FDD V	F <sub>MID</sub>	CH: 41	75 UL: 835 MHz	CH: 4400 DL: 880 MHz	
	F <sub>HIGH</sub>	CH: 42	32 UL: 846.4 MHz	CH: 4457 DL: 891.4 MHz	
Supported transmission modes	Circuit s	witched			
Modulations	GMSK				
Number of antennas	1				
	Туре		GSM/UMTS module		
	Model		HL8548		
	Manufac	cturer	Sierra Wireless		
Radio module	HW Vers	sion	N/A		
	SW Vers	sion	N/A		
	FCC-ID		N7NHL8548		
	IC		2417C-HL8548		

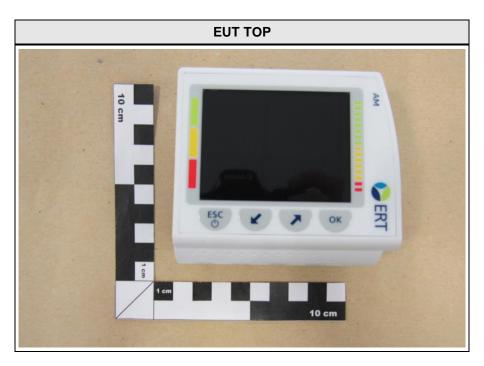


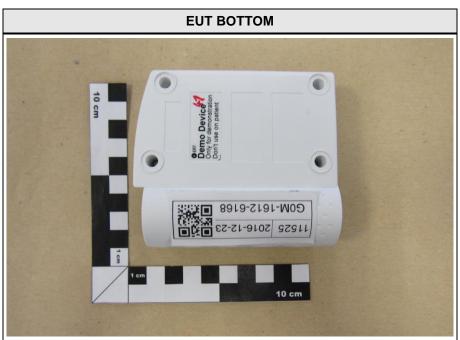
# **Product Service**

	Туре	integrated	
A4	Model	Avia SRFC025-100	
Antenna	Manufacturer	Antenova	
	Gain	-1.1 to -3.31	
	eResearch Tech	nology GmbH	
Manufacturer	Sieboldstrasse 3		
Wallulacture	97230 Estenfeld		
	GERMANY		
	V <sub>NOM</sub>	3.7 V DC	
Power supply	V <sub>MIN</sub>	N/A	
	V <sub>MIN</sub>	N/A	
	Model	WR9QA1200MUNMRVG2773	
AC/DC Adoptor	Vendor	GlobTek Inc.	
AC/DC-Adaptor	Input	100-240V AC	
	Output	5V DC / 1.2A	



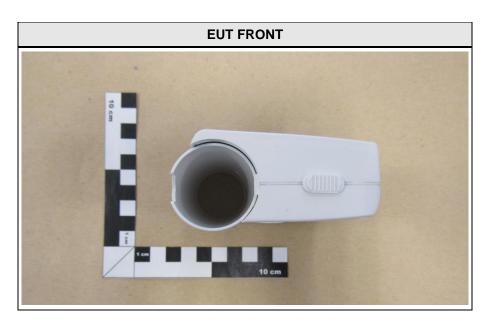
# 1.1 Photos – Equipment External







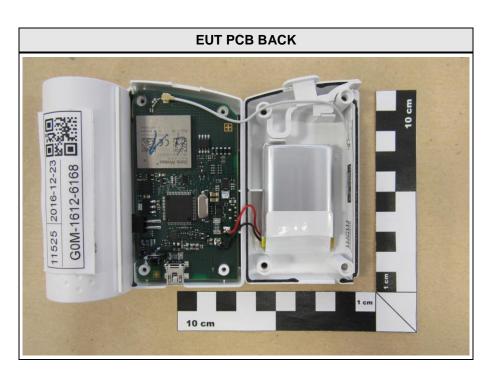
# **Product Service**

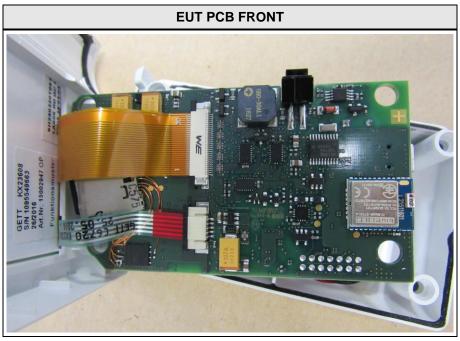






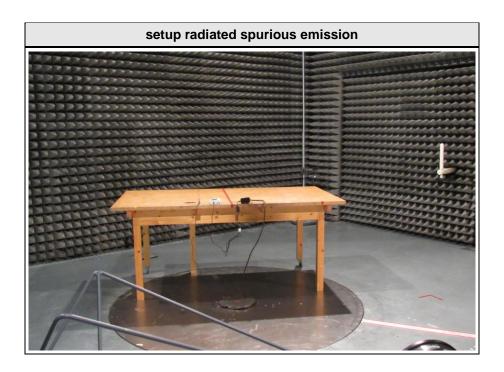
# 1.2 Photos – Equipment internal







# 1.3 Photos - Test setup





# 1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
SIM	Communication tester	Rohde & Schwarz	CMU 200	

\*Note: Use the following abbreviations:

AE : Auxiliary/Associated Equipment, or SIM : Simulator (Not Subjected to Test)

CABL: Connecting cables



### 1.5 Test Modes

Mode #	Description		
	General conditions:	EUT powered by battery, AC/DC adapter connected for charging. Active call to communication tester.	
UMTS FDD II	Radio conditions:	Mode = transmit Connection = Circuit switched Modulation = QPSK Configuration = RMC 12.2 kbps Power level = All 1	
	General conditions:	EUT powered by battery, AC/DC adapter connected for charging. Active call to communication tester.	
UMTS FDD V	Radio conditions:	Mode = transmit  Connection = Circuit switched  Modulation = QPSK  Configuration = RMC 12.2 kbps  Power level = All 1	



# 1.6 Test Equipment Used During Testing

Measurement Software				
Description Manufacturer Name Version				
EMC Test Software Dare Instruments Radimation 2015.2.4				

Occupied Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2016-02	2017-02

Radiated power						
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due	
Fully-anechoic chamber	Frankonia	AC 3	EF00199	-	-	
Spectrum Analyzer	R&S	FSIQ 26	EF00242	2016-04	2017-04	
Biconical Antenna	R&S	HK 116	EF00012	2016-05	2019-05	
LPD Antenna	R&S	HL 223	EF00187	2016-05	2019-05	
LPD Antenna	R&S	HL 025	EF00327	2015-10	2018-10	

Radiated spurious emissions							
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due		
Semi-anechoic chamber	Frankonia	AC 1	EF00062	•	-		
Spectrum Analyzer	R&S	FSEK 30	EF00168	2016-12	2017-12		
Biconical Antenna	R&S	HK 116	EF00012	2016-05	2019-05		
LPD Antenna	R&S	HL 223	EF00212	2016-04	2019-04		
LPD Antenna	R&S	HL 025	EF00327	2015-10	2018-10		



#### 1.7 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 ( $\mu$ 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:

Reading + AF = Net Reading : Net reading - FCC limit = Margin 21.5 dB $\mu$ V + 26 dB = 47.5 dB $\mu$ V/m : 47.5 dB $\mu$ V/m - 57.0 dB $\mu$ V/m = -9.5 dB



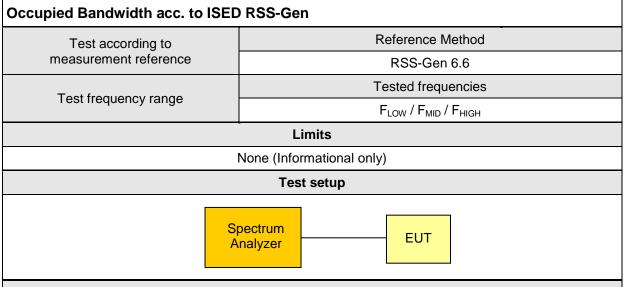
# 2 Result Summary

FCC 47 CFR Part 22H, 24E, ISED RSS-132, 133						
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks		
RSS-Gen 6.6	Occupied Bandwidth	RSS-Gen 6.6 KDB 971168		Informational only		
FCC § 24.235 FCC § 22.355 ISED RSS-132 § 4.3 ISED RSS-133 § 6.3	Frequency stability	FCC § 24.235 FCC § 22.355 ISED RSS-132 § 4.3 ISED RSS-133 § 6.3 KDB 971168 ANSI C63.26	N/T			
FCC § 22.913(a)	Effective radiated power	ANSI/TIA-603-D KDB 971168 ANSI C63.26	PASS			
FCC § 24.232(c) ISED RSS-132 § 4.4 ISED RSS-133 § 6.4	Equivalent isotropic radiated power	ANSI/TIA-603-D KDB 971168 ANSI C63.26	PASS			
FCC § 24.232(d) ISED RSS-133 § 6.4	Peak to average ratio	FCC § 24.232(d) ISED RSS-133 § 6.4 KDB 971168 ANSI C63.26	N/T			
FCC § 22.917(b) FCC § 24.238(b) ISED RSS-132 § 4.5 ISED RSS-133 § 6.5	Band-edge compliance	FCC § 22.917(b) FCC § 24.238(b) ISED RSS-132 § 4.5 ISED RSS-133 § 6.5 KDB 971168 ANSI C63.26	N/T			
FCC § 22.917(a) FCC § 24.238(a) ISED RSS-132 § 4.5 ISED RSS-133 § 6.5	Conducted out-of-band emissions	FCC § 22.917(a) FCC § 24.238(a) ISED RSS-132 § 4.5 ISED RSS-133 § 6.5 KDB 971168 ANSI C63.26	N/T			
FCC § 22.917(a) FCC § 24.238(a) ISED RSS-132 § 4.5 ISED RSS-133 § 6.5	Radiated out-of-band emissions	ANSI/TIA-603-D KDB 971168 ANSI C63.26	PASS			
ISED RSS-132 § 4.6 ISED RSS-133 § 6.6 ISED RSS-Gen 7.1	Receiver radiated spurious emissions	ISED RSS-132 § 4.6 ISED RSS-133 § 6.6 ISED RSS-Gen 7.1 ANSI C63.26	PASS			



#### 3 Test Conditions and Results

#### 3.1 Test Conditions and Results - Occupied Bandwidth



#### **Test procedure**

- 1. EUT set to test mode (Communication tester is used if needed)
- 2. Span set to at least twice the emission spectrum
- 3. Resolution bandwidth set to 1 % of span
- 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function

	Tes	t results – UMT	S FDD II	
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [MHz]	
$F_{LOW}$	1852.6	FDD II	4.067	
F <sub>MID</sub>	1880	FDD II	4.067	
F <sub>HIGH</sub>	1907.4	FDD II	4.067	
	Tes	t results – UMT	S FDD V	
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [MHz]	
F <sub>LOW</sub>	826.6	FDD V	4.058	
F <sub>MID</sub>	835	FDD V	4.067	
F <sub>HIGH</sub>	846.4	FDD V	4.067	
Comments:				



#### Occupied Bandwidth - UMTS FDD II FLOW

# Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1612-6168

Applicant: eResearch Technology GmbH

EUT Name: Asthma Monitor AM3

Model: AM3 Option G+

Test Site: Eurofins Product Service GmbH

Operator: Matthias Handrik
Test Conditions: Tnom / Vnom

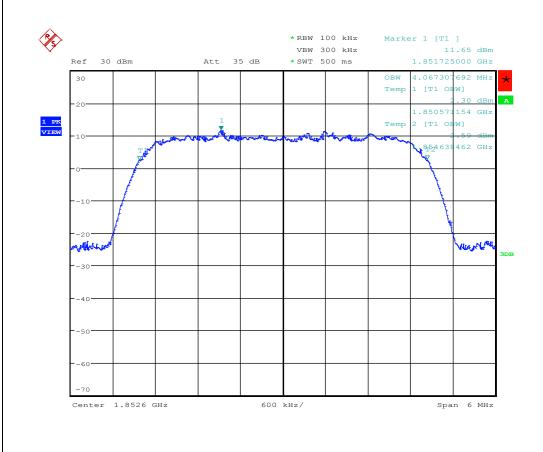
Mode: UMTS FDD II / CH: 9263 / RMC

Test Date: 2017-01-09

Verdict: NONE (INFORMATION ONLY)

Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used

Note 2: OBW = 4.067 MHz





# Occupied Bandwidth - UMTS FDD II F<sub>MID</sub>

# Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1612-6168

Applicant: eResearch Technology GmbH

EUT Name: Asthma Monitor AM3

Model: AM3 Option G+

Test Site: Eurofins Product Service GmbH

Operator: Matthias Handrik
Test Conditions: Tnom / Vnom

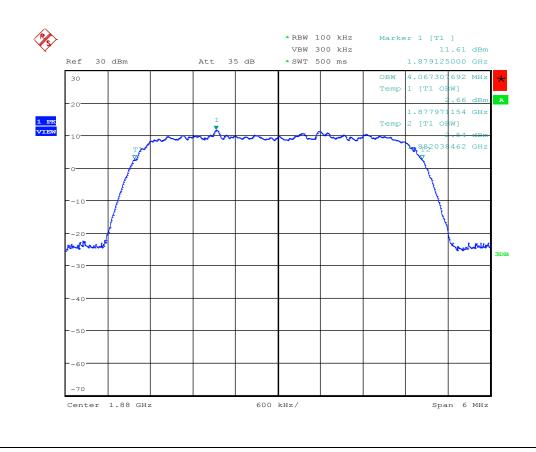
Mode: UMTS FDD II / CH: 9400 / RMC

Test Date: 2017-01-09

Verdict: NONE (INFORMATION ONLY)

Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used

Note 2: OBW = 4.067 MHz





# Occupied Bandwidth - UMTS FDD II FHIGH

# Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1612-6168

Applicant: eResearch Technology GmbH

EUT Name: Asthma Monitor AM3

Model: AM3 Option G+

Test Site: Eurofins Product Service GmbH

Operator: Matthias Handrik
Test Conditions: Tnom / Vnom

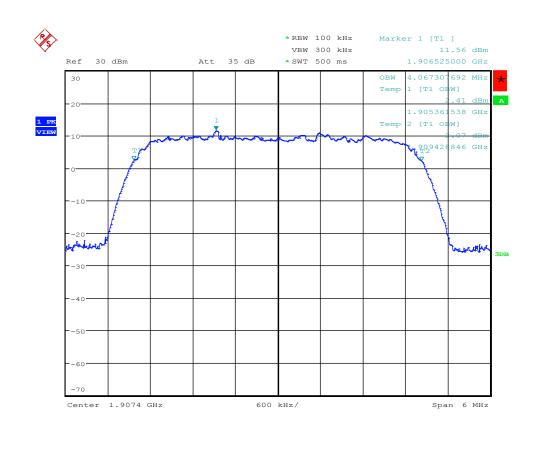
Mode: UMTS FDD II / CH: 9537 / RMC

Test Date: 2017-01-09

Verdict: NONE (INFORMATION ONLY)

Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used

Note 2: OBW = 4.067 MHz





#### Occupied Bandwidth - UMTS FDD V FLOW

# Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1612-6168

Applicant: eResearch Technology GmbH

EUT Name: Asthma Monitor AM3

Model: AM3 Option G+

Test Site: Eurofins Product Service GmbH

Operator: Matthias Handrik
Test Conditions: Tnom / Vnom

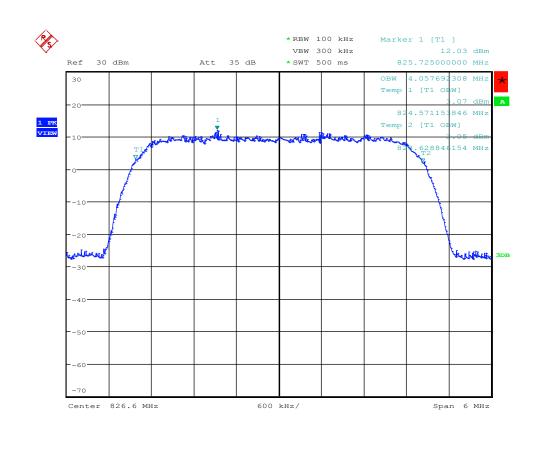
Mode: UMTS FDD V / CH: 4133 / RMC

Test Date: 2017-01-09

Verdict: NONE (INFORMATION ONLY)

Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used

Note 2: OBW = 4.058 MHz





# Occupied Bandwidth - UMTS FDD V F<sub>MID</sub>

# Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1612-6168

Applicant: eResearch Technology GmbH

EUT Name: Asthma Monitor AM3

Model: AM3 Option G+

Test Site: Eurofins Product Service GmbH

Operator: Matthias Handrik
Test Conditions: Tnom / Vnom

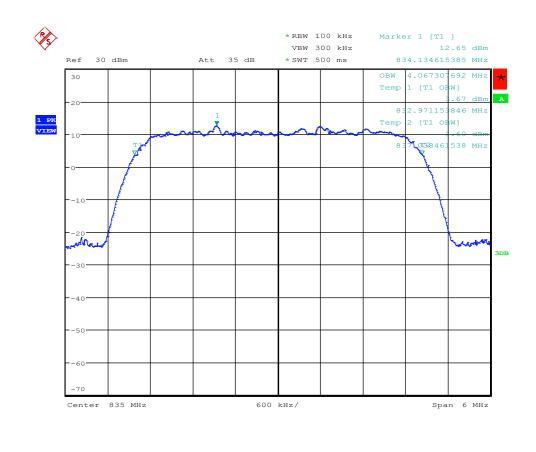
Mode: UMTS FDD V / CH: 4175 / RMC

Test Date: 2017-01-09

Verdict: NONE (INFORMATION ONLY)

Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used

Note 2: OBW = 4.067 MHz





### Occupied Bandwidth - UMTS FDD V FHIGH

# Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1612-6168

Applicant: eResearch Technology GmbH

EUT Name: Asthma Monitor AM3

Model: AM3 Option G+

Test Site: Eurofins Product Service GmbH

Operator: Matthias Handrik
Test Conditions: Tnom / Vnom

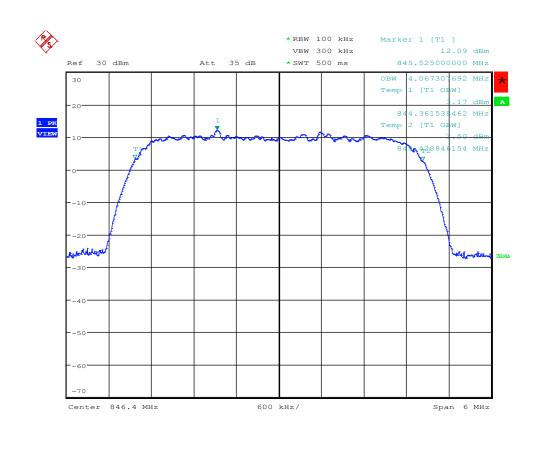
Mode: UMTS FDD V / CH: 4232 / RMC

Test Date: 2017-01-09

Verdict: NONE (INFORMATION ONLY)

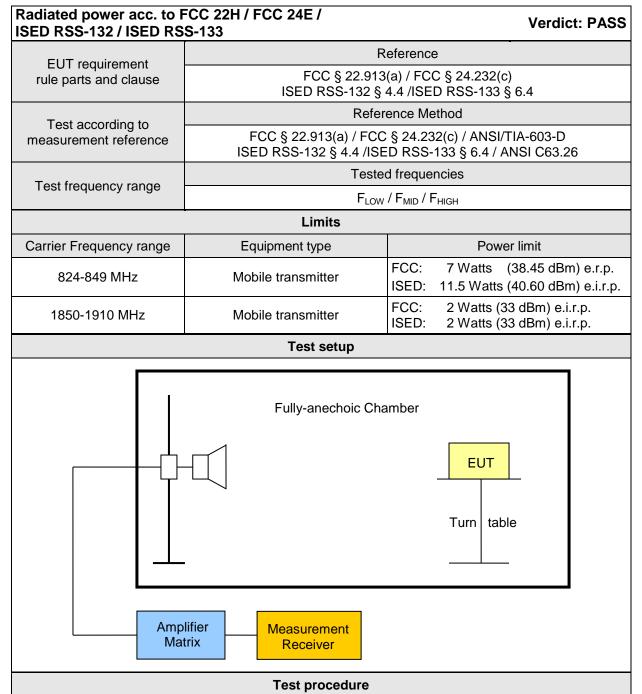
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used

Note 2: OBW = 4.067 MHz





# 3.2 Test Conditions and Results – Effective radiated power / Equivalent isotropic radiated power



- EUT set to test mode
- 2. The radiated power is measured with a measurement antenna in vertical polarization
- To obtain maximum level the EUT is rotated
- 4. The EUT is replaced with a half-wave dipole and the power to the dipole is adjusted to obtain same radiated power measurement value



# **Product Service**

Test results – UMTS FDD V E.R.P.									
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.r.p]	Limit [dBm e.r.p]	Margin [dB]	Result		
F <sub>LOW</sub>	826.6	RMC	hor	10.4	38.45	-28.05	PASS		
F <sub>MID</sub>	835	RMC	hor	12.6	38.45	-25.85	PASS		
F <sub>HIGH</sub>	846.4	RMC	hor	11.7	38.45	-26.75	PASS		
	Test results – UMTS FDD V E.I.R.P.								
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result		
F <sub>LOW</sub>	826.6	RMC	hor	12.55	40.6	-28.05	PASS		
F <sub>MID</sub>	835	RMC	hor	14.65	40.6	-25.95	PASS		
F <sub>HIGH</sub>	846.4	RMC	hor	13.85	40.6	-26.75	PASS		
Test results – UMTS FDD II E.I.R.P.									
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result		
F <sub>LOW</sub>	1852.6	RMC	hor	17.5	33	-15.50	PASS		
F <sub>MID</sub>	1880	RMC	hor	16.7	33	-16.30	PASS		
F <sub>HIGH</sub>	1907.4	RMC	hor	20.8	33	-12.20	PASS		
Comments:									



#### 3.3 Test Conditions and Results - Transmitter radiated emissions

Transmitter radiated power acc. to FCC 22H / FCC 24E / Verdict: PASS ISED RSS-132 / ISED RSS-133								
Toot appording refere	aaad	Reference Method						
Test according refere standards	iiceu	FCC § 22.917(a) / FCC § 24.238(a) ISED RSS-132 § 4.5 / ISED RSS-133 § 6.5						
Test according to	1	Reference Method						
measurement refere	nce	ANSI/TIA-603-D / ANSI C63.26						
Test frequency ran	70	Tested frequencies						
rest frequency fair	y <del>e</del>	30 MHz – 10 <sup>th</sup> Harmonic						
	Limits							
Carrier Frequency range		Limit						
824-849 MHz	Attenuation	n below transmitter power ≥ 43 + 10 · log <sub>10</sub> (P) [dB] = -13 dBm						
1850-1910 MHz	Attenuation	below transmitter power $\geq 43 + 10 \cdot \log_{10}(P)$ [dB] = -13 dBm						
Test setup								
		Semi-anechoic Chamber  EUT  Turn table  Ground Plane						
Ampl Mati		Measurement Receiver						

# **Test procedure**

- 1. EUT set to test mode
- 2. Maximum emission level is measured by rotating the EUT and adjusting the antenna height for vertical polarization
- 3. The EUT is replaced by a substitution antenna and generator
- 4. The power level is set to obtain the same power reading
- 5. Measurement is repeated for horizontal polarization



# **Product Service**

Test results – UMTS FDD V							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
$F_{LOW}$	826.6	RMC	2476	-49.0	hor	-13	-36.00
$F_{MID}$	835	RMC	2507	-41.4	hor	-13	-28.40
F <sub>HIGH</sub>	846.4	RMC	2542	-43.5	hor	-13	-30.50
Test results – UMTS FDD II							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
$F_{LOW}$	1852.6	RMC	1844	-23.6	hor	-13	-10.60
F <sub>LOW</sub>	1852.6	RMC	3700	-35.3	hor	-13	-22.30
F <sub>MID</sub>	1880	RMC	3760	-31.0	hor	-13	-18.00
F <sub>HIGH</sub>	1907.4	RMC	1915	-23.6	hor	-13	-10.60
F <sub>HIGH</sub>	1907.4	RMC	3812	-29.5	ver	-13	-16.50
Comments:							•



### 3.4 Test Conditions and Results - Receiver radiated emissions

eceiver radiated emis	sions acc. to	ISED RSS-132 / I	SED RSS-133	Verdict: PASS			
Test according refere	nced	Reference Method					
standards		ISED RSS-132 5.6 / 133 6.6					
Test according to	)		Reference Method				
measurement refere	ence		ANSI C63.26				
Test frequency ran	<b>00</b>		Tested frequencies				
rest frequency fair	ge	30	) MHz – 5 <sup>th</sup> Harmon	ic			
EUT test mode			Receive				
		Limits					
requency range [MHz]	Detector	Limit [µV/m]	Limit [dBµV/m]	Limit Distance [m]			
30 – 88	Quasi-Peak	100	40	3			
88 – 216	Quasi-Peak	150	43.5	3			
216 – 960	Quasi-Peak	200	46	3			
960 – 1000	Quasi-Peak	500	54	3			
> 1000 Average		500	54	3			
		Test setup					
	<del>                                     </del>	Semi-anechoic Ch	EUT	able			
Am	plifier	Measurement					



#### **Test procedure**

- 1. EUT set to receive mode (Communication tester is used if needed)
- 2. Span it set according to measurement range
- 3. Resolution bandwidth below 1GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1MHz with peak/average detector is used above 1GHz
- 4. Markers are set to peak emission levels

Test results UMTS FDD II								
Channel	Frequency [MHz]	Emission [MHz]	Emission Level [dBµV/m]	Emission Level [µV/m]	Det.	Limit [µV/m]	Margin [µV/m]	
F <sub>MID</sub>	1880	40.44	32.9	44.16	qp	100	-55.84	
F <sub>MID</sub>	1880	3514	43.28	145.88	pk	500	-354.12	
F <sub>MID</sub>	1880	7984	50.22	324.34	pk	500	-175.66	
Test results UMTS FDD V								
F <sub>MID</sub>	835	40.44	32.9	44.16	qp	100	-55.84	
F <sub>MID</sub>	835	3874	45.12	180.30	pk	500	-319.70	
F <sub>MID</sub>	835	7944	50.47	333.81	pk	500	-166.19	
Comments								

Comments: