T E S T R E P O R T
No.: 19-1-0137401T09a-C1

According to:
FCC Regulations
Part 1.1310
Part 2.1091

IC-Regulations
RSS-102, Issue 5

for

Bosch Healthcare Solutions GmbH

System for quantitative measurement of fractional nitric oxide (FeNO) in human breath
Vivatmo pro (Base Station)

FCC ID: 2AVQ9VMPBS1
ISED: 25928-VMPBS1

Laboratory Accreditation and Listings

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01 D-PL-12047-01-03 D-PL-12047-01-04

accredited according to DIN EN ISO/IEC 17025

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The listed attachments are an integral part of this report.

1. Summary of test results

The test results apply exclusively to the test samples as presented in this Report. The CETECOM GmbH does not assume responsibility for any conclusions and generalizations taken in conjunction with other specimens or samples of the type of the item presented to tests.

The presented Equipment Under Test (in this report, hereinafter referred as EUT) integrates a WLAN, BT and BT LE 2.4 GHz RF Transceiver. Other implemented wireless technologies were not considered within this test report.
Following tests have been performed to show compliance with applicable FCC Part 2.1091 and FCC Part 1.1310 of the FCC CFR 47 Rules.

1.1. Summary of tests results

RF-Exposure Evaluation (separation distance user to RF-radiating element greater 20cm)								
Test cases	Port	References & Limits				EUT set-up	EUT op. mode	Result
		FCC Standard	Test Limit	RSS Standard	Test Limit			
Radio frequency radiation exposure Requirements	Cabinet	§1.1310 §2.1091 §2.1093	RF-Field Strength Limits: FCC: "general population/ uncontrolled" environment	RSS-102, Issue 5	Chapter 4 Table 4	1	1, 2, 3	Pass

Remark: Calculations based on Datasheet delivered by applicant.

1.2. Attestation:

I declare that all measurements were performed by me or under my supervision and that all measurements have been performed and are correct to my best knowledge and belief to Industry Canada standards. All requirements as shown in above table are met in accordance with enumerated standards.

The current version of the Test Report CETECOM_TR19-1-0137401T09a-C1 replaces the Test Report CETECOM_TR19-1-0137401T09a dated 2020-05-12. The replaced test report is herewith invalid.

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ridder@ceteco
m.com
2020.11.25 08:
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.....
Markus Ridder
Responsible for test section

Ninovic
Perez
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.....
Ninovic Perez
Responsible for test report

2. Administrative Data

2.1. Identification of the testing laboratory

Company name:	CETECOM GmbH
Address:	Im Teelbruch 116 45219 Essen - Kettwig Germany
Responsible for testing laboratory:	Ninovic Perez

2.2. Test location

2.2.1. Test laboratory "CTC"

Company name:	see chapter 2.1. Identification of the testing laboratory

2.3. Organizational items

Responsible for test report:	Ninovic Perez
Receipt of EUT:	--
Date(s) of test:	--
Date of report:	2020-05-12

2.4. Applicant's details

Applicant's name:	Bosch Healthcare Solutions GmbH
Address:	Stuttgarter Str. 130 71332 Waiblingen Germany
Contact person:	Mr. Markus Thürsam <Markus.Thuersam@de.bosch.com>

2.5. Manufacturer's details

Manufacturer's name:	Bosch Healthcare Solutions GmbH
Address:	Stuttgarter Str. 130 71332 Waiblingen Germany

3. Equipment under test (EUT)

3.1. Technical data of MAIN EUT (WLAN-technology) declared by applicant

TX-frequency range	WLAN: 2412 – 2462 MHz BT: 2402 – 2480 MHz BT LE: 2402 – 2480 MHz		
Type of modulation	WLAN: QPSK, QAM BT: GFSK, π/4DQPSK, 8DPSK BT LE: GFSK		
Data rates	WLAN: b-mode: 1Mbps to 11Mbps g-mode: 6Mbps to 54Mbps n20-mode: 6.5Mbps to 65Mbps BT: 1, 2, 3 Mbit/s BT LE: 1 Mbit/s		
Antenna Type	☒ Integrated ☐ External, no RF- connector ☐ External, separate RF-connector: main TX + secondary RX connector		
Antenna Gain Tx (main)	Antenna gain see Annex 1		
Special EMI components	--		
EUT sample type	☒ Production	☐ Pre-Production	☐ Engineering
FCC label attached	☐ yes	☒ no	

3.3. Technical data of main EUT (Non Cellular Technology) declared by applicant

Wireless Technologies	Frequency bands	Operation mode
☒WLAN	☒2.4GHz ☐5GHz	normal operation mode
☒Bluetooth	☒2.4GHz	normal operation mode
☒Bluetooth LE	☒2.4GHz	normal operation mode

Wireless Technologies	Frequency bands	Antenna type	Maximum antenna gain
☒WLAN ☒Bluetooth ☒Bluetooth LE	☒2.4GHz ☐5GHz	☐PIFA ☒PCB	see Annex 1

3.4. EUT: Type, S/N etc. and short descriptions used in this test report

Short descrip-tion*)	EUT	Type	S/N serial number	HW hardware status	SW software status
EUT A	Vivatmo pro (Base Station)	System for quantitative measurement of fractional nitric oxide (FeNO) in human breath	--	F09G100168	Linux-Version: 4.4.35, SW-Version: 1.2.0 or 1.4.0

*) EUT short description is used to simplify the identification of the EUT in this test report.

3.5. Auxiliary Equipment (AE): Type, S/N etc. and short descriptions

AE short descrip-tion *)	Auxiliary Equipment	Type	S/N serial number	HW hardware status	SW software status
AE 1	--	--	--	--	--

*) AE short description is used to simplify the identification of the auxiliary equipment in this test report.

3.6. EUT set-ups

EUT set-up no.*)	Combination of EUT and AE	Remarks
set. 1	EUT A	only theoretical calculation

*) EUT set-up no. is used to simplify the identification of the EUT set-up in this test report.

3.7. EUT operating modes

EUT operating mode no.*)	Description of operating modes	Additional information
op. 1	WLAN 2.4GHz	Only theoretical calculation
op. 2	Bluetooth BDR/EDR	
op. 3	Bluetooth LE	

*) EUT operating mode no. is used to simplify the test report.

4. Measurements

4.1. Radio Frequency Exposure Evaluation §2.1091

4.1.1. Test location and equipment (for reference numbers please see chapter 'List of test equipment')

test location	☒ CETECOM Essen (Chapter. 2.2.1)	☐ Please see Chapter. 2.2.2	☐ Please see Chapter. 2.2.3
	For Evaluation instruments are not needed. Results are determined by calculation based on applicants delivered Tune-Up procedure.		

4.1.2. Requirements

FCC: §1.1310	*The criteria used for the evaluation of human exposure to radio frequency radiation is table 1 according FCC §1.1310 and table chapter 4.2 of RSS-102 standard and it is subject for evaluation of the RF exposure prior to equipment authorization. As the mobile equipment is authorized under Part 22 (Subpart H) and Part 24 of the FCC Rules, it is subject for evaluation of the RF exposure prior to equipment authorization.*
FCC § 2.1091	*Further information on evaluating compliance with these limits can be found in the FCC's OST/OET Bulletin Number 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation." For purposes of these requirements mobile devices are defined by the FCC as transmitters designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between radiating structures and the body of the user or nearby persons. These devices are normally evaluated for exposure potential with relation to the MPE limits given in Table 1 of Appendix A.*

4.1.2.1. Valid for FCC

Table 1: LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)				
Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm²]	Averaging time [minutes]
30 - 300	61.4	0.163	1.0	6
300 - 1500	-		f/300	6
1500 - 100,000	-		5	6
(B) Limits for General Population / Uncontrolled Exposure				
0.3 – 1.34	614	1.63	*(100)	30
1.34 – 30	824/f	2.19/f	*(180/f²)	30
30 - 300	27.5	0.073	0.2	30
300 - 1500	-	-	f/1500	30
1500 – 100,0	-	-	1.0	30

f=frequency in MHz
*Plane-wave equivalent power density

NOTE1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure. These limits apply to amateur station licensees and members of their immediate household as discussed in the text.

NOTE2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. As discussed in the text, these limits apply to neighbours living near amateur radio stations.

4.1.3 General Limits:

FCC: §1.1307	*Cellular Radiotelephone Service (subpart H of part 22)* *Non-building-mounted antennas: height above ground level to lowest point of antenna < 10 m and total power of all channels > 1000 W ERP (1640 W EIRP)*
FCC §1.1307	*Personal Communications Services (part 24)* *Broadband PCS (subpart E): non-building-mounted antennas: height above ground level to lowest point of antenna < 10 m and total power of all channels > 2000 W ERP (3280 W EIRP)*
FCC §1.1310	*LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)* *Table 1(B) Limits for General Population/Uncontrolled Exposure* *300–1500 MHz: f/1500 mW/cm²* *1500–100,000 MHz: 1.0 mW/cm²*
FCC §2.1091	*Subject to routine evaluation is required when the device operate at frequencies of 1.5 GHz or below and their effective radiated power (ERP) is 1.5 watts or more, or if they operate at frequencies above 1.5 GHz and their ERP is 3 watts or more.*
FCC §24.232	*(a) Base stations are limited to 1640 watts peak equivalent isotropically radiated power (e.i.r.p.) with an antenna height up to 300 meters HAAT.* *b) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power, …*
FCC §22.913	*(a) Maximum ERP. The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.*
FCC §27.50 (C)(10)	*(10) Portable stations (hand-held devices) are limited to 3 watts ERP; and*
FCC §27.50(d)	*(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band are limited to 1 watt EIRP.*
KDBs	*No. 447498 D01 v06*

4.2. Requirements and limits for RSS Standard

RSS-102, Issue 5	**2.5 Exemption Limits for Routine Evaluation** All transmitters are exempt from routine SAR and RF exposure evaluations provided that they comply with the requirements of sections 2.5.1 or 2.5.2. **If the equipment under test (EUT) meets the requirements of sections 2.5.1 or 2.5.2, applicants are only required to submit a properly signed declaration of compliance (see Annex C)**. The information contained in the RF exposure technical brief may be limited to the value(s) of the maximum output power, the information that demonstrates how the maximum output power of the transmitter was derived and the rationale for the separation distances applied (see Table 1), which must be based on the most conservative exposure condition for the applicable module or host platform test procedure requirements.
	2.5.2 Exemption Limits for Routine Evaluation — RF Exposure Evaluation RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows: • below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance); • at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz; • at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance); • **at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;** • at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance). In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.
	2.6 User Manual Requirements The applicant is responsible for providing proper instructions to the user of the radio device, and any usage restrictions, including limits of exposure durations. The user manual shall provide installation and operation instructions, as well as any special usage conditions (e.g. proper accessory required, including the proper orientation of the device in the accessory, maximum antenna gain in the case of detachable antenna), in order to ensure compliance with SAR and/or RF field strength limits. For instance, compliance distance shall be clearly stated in the user manual. The user manual of devices intended for controlled use shall also include information relating to the operating characteristics of the device; the operating instructions to ensure compliance with SAR and/or RF field strength limits; information on the installation and operation of accessories to ensure compliance with SAR and/or RF field strength limits; and contact information where the user can obtain Canadian information on RF exposure and compliance. Other related information may also be included.

4.3. MPE Calculation method

Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{EIRP}{4\pi R^2} = \frac{P * G}{4\pi R^2}$$

$$G_{NUMERIC} = \frac{S * 4\pi R^2}{P}$$

Where: S=power density
P=power input to antenna
G=power gain of the antenna in the direction of interest relative to an isotropic radiator
R=distance to the centre of radiation of the antenna

4.4. Evaluation Method

4.4.1. Standalone

Valid for WCDMA / LTE Mode:

• The power was checked on 3 frequencies (lowest/middle/highest) within each operable FDD-band (see separate report for W-CDMA technology) and the results compared to applicant's declared power values (tune-up info). A RMS detector was used.
• No duty-cycle correction factor is applicable

Valid for WLAN 2.4GHz, Bluetooth and Bluetooth LE:
• The peak power was checked on 3 frequencies (lowest/middle/highest) within the 2.4GHz band
• No duty-cycle correction factor is applicable

Please find in the following tables **the calculations based on applicants information**

4.5. Results for fixed and mobile operations

4.5.1. Results for FCC Standard

4.5.3.1. Results for 2.4GHz transmitter

Operation Mode	Frequency on channel (MHz)	Declared maximum conducted output power (dBm)	Max. positive tolerance according manfacturer (dB)	Antenna Gain (dBi)	Declared maximum EIRP (Measured+ Tune-up) (dBm)	Duty cycle (%)	Declared Maximum EIRP (W)	Equivalent EIRP (maximum EIRP x duty cycle) (mW)	MPE Limit accord. Table 1 (mW/cm^2)	MPE-Value (mW/cm^2)	Margin to Limit: (mW/cm^2)	Fraction for Co-Location calculations	Max. Fraction-Value within Frequency-Band
WLAN 2.4GHz	2412.0	17.1	1.5	1.5	20.1	100%	0.1023	102.3	1.0000	0.0204	0.9796	0.020358	0.0213172
	2437.0	17.0	1.5	1.5	20.0		0.1000	100.0	1.0000	0.0199	0.9801	0.019894	
	2480.0	17.3	1.5	1.5	20.3		0.1072	107.2	1.0000	0.0213	0.9787	0.021317	
Bluetooth 2.4GHz	2402.0	8.1	1.5	1.5	11.1	100%	0.0129	12.9	1.0000	0.0026	0.9974	0.002563	0.0042533
	2442.0	9.2	1.5	1.5	12.2		0.0166	16.6	1.0000	0.0033	0.9967	0.003302	
	2480.0	10.3	1.5	1.5	13.3		0.0214	21.4	1.0000	0.0043	0.9957	0.004253	
Bluetooth LE 2.4GHz	2402.0	5.9	1.5	1.5	8.9	100%	0.0078	7.8	1.0000	0.0015	0.9985	0.001544	0.0020832
	2442.0	7.2	1.5	1.5	10.2		0.0105	10.5	1.0000	0.0021	0.9979	0.002083	
	2480.0	6.6	1.5	1.5	9.6		0.0091	9.1	1.0000	0.0018	0.9982	0.001814	

Maximum calculated MPE value:		
Lowest MPE-Limit:	1.0000	[mW/cm^2]
Highest MPE value:	0.0213	[mW/cm^2]
Lowest Margin to limit:	0.9787	[mW/cm^2]

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

4.5.5. Co-location assessment (scenario)

No simultaneous transmission possible.

The measurement results comply with the FCC Limit per 47 CFR §2.1091 for the uncontrolled RF Exposure of mobile device.

4.6.1. Results for RSS Standard

4.6.3.1. Results for 2.4GHz transmitter

Operation Mode	Frequency on channel (MHz)	Declared maximum conducted output power (dBm)	Max. positive tolerance according manfacturer's tune-up info (dB)	Declared Antenna Gain (dBi)	Calculated maximum EIRP (Measured+ Tune-up) (dBm)	Duty-Cycle (%)	Calculated Maximum EIRP (W)	Equivalent EIRP (maximum EIRP x duty cycle) (W)	MPE Limit accord. Table 4 (W/m^2)	MPE-Value (W/m^2)	Margin to Limit: (W/m^2)	Fraction for Co-location calculations	Maximum Fraction Value within Frequency band
WLAN 2.4GHz	2412.0	17.10	1.50	1.50	20.10	100%	0.1023	0.102	5.3660	0.2036	5.1624	0.03794	0.03898
	2437.0	17.00	1.50	1.50	20.00	100%	0.1000	0.100	5.4040	0.1989	5.2050	0.03681	
	2480.0	17.30	1.50	1.50	20.30	100%	0.1072	0.107	5.4689	0.2132	5.2558	0.03898	
Bluetooth 2.4GHz	2402.0	8.10	1.50	1.50	11.10	100%	0.0129	0.013	5.3508	0.0256	5.3252	0.00479	0.00778
	2442.0	9.20	1.50	1.50	12.20	100%	0.0166	0.017	5.4115	0.0330	5.3785	0.00610	
	2480.0	10.30	1.50	1.50	13.30	100%	0.0214	0.021	5.4689	0.0425	5.4264	0.00778	
Bluetooth LE 2.4GHz	2402.0	5.90	1.50	1.50	8.90	100%	0.0078	0.008	5.3508	0.0154	5.3354	0.00289	0.00385
	2442.0	7.20	1.50	1.50	10.20	100%	0.0105	0.010	5.4115	0.0208	5.3907	0.00385	
	2480.0	6.60	1.50	1.50	9.60	100%	0.0091	0.009	5.4689	0.0181	5.4508	0.00332	

Maximum calculated MPE value:		
	2.4GHz Band	
Lowest MPE-Limit:	5.3508	[W/m^2]
Highest MPE value:	0.2132	[W/m^2]
Lowest margin to limit	5.1624	[W/m^2]

4.6.5. Co-location assessment (scenario)

No simultaneous transmission possible.

The measurement results comply with the ISED Limit per RSS-102, Issue 5 for the uncontrolled RF Exposure of mobile device.

4.7. Measurement uncertainties

The reported uncertainties are calculated based on the standard uncertainty multiplied with the appropriate coverage factor **k**, such that a confidence level of approximately 95% is achieved.
For uncertainty determination, each component used in the concrete measurement set-up was taken in account and it's contribution to the overall uncertainty according it's statistical distribution calculated.

Following table shows expectable uncertainties for each measurement type performed.

RF-Measurement	Reference	Frequency range	Calculated uncertainty based on a confidence level of 95%						Remarks
Conducted emissions (U_{CISPR})	CISPR 16-2-1	9 kHz - 150 kHz 150 kHz - 30 MHz	4.0 dB 3.6 dB						-
Radiated emissions Enclosure	CISPR 16-2-3	30 MHz - 1 GHz 1 GHz - 18 GHz	4.2 dB 5.1 dB						E-Field
Disturbance power	CISPR 16-2-2	30 MHz - 300 MHz	-						-
Power Output radiated	-	30 MHz - 4 GHz	3.17 dB						Substitution method
Power Output conducted	-	Set-up No.	Cel-C1	Cel-C2	BT1	W1	W2		
		9 kHz - 12.75 GHz	N/A	0.60	--	--	--		-
		12.75 - 26.5GHz	N/A	0.82	--	--	--		
Conducted emissions on RF-port	-	9 kHz - 2.8 GHz	0.70	N/A	--	--	--		N/A - not applicable
		2.8 GHz - 12.75GHz	1.48	N/A	--	--	--		
		12.75 GHz - 18GHz	1.81	N/A	--	--	--		
		18 GHz - 26.5GHz	1.83	N/A	--	--	--		
Occupied bandwidth	-	9 kHz - 4 GHz	0.1272 ppm (Delta Marker)						Frequency error
			1.0 dB						Power
Emission bandwidth	-	9 kHz - 4 GHz	0.1272 ppm (Delta Marker)						Frequency error
	-		See above: 0.70 dB						Power
Frequency stability	-	9 kHz - 20 GHz	0.0636 ppm						-
Radiated emissions Enclosure	-	150 kHz - 30 MHz 30 MHz - 1 GHz 1 GHz - 20 GHz	5.0 dB 4.2 dB 3.17 dB						Magnetic field E-field Substitution

Table: measurement uncertainties, valid for conducted/radiated measurements

5. Abbreviations used in this report

The abbreviations	
ANSI	American National Standards Institute
AV , AVG, CAV	Average detector
EIRP	Equivalent isotropically radiated power, determined within a separate measurement
EGPRS	Enhanced General Packet Radio Service
EUT	Equipment Under Test
FCC	Federal Communications Commission, USA
IC	Industry Canada
n.a.	not applicable
Op-Mode	Operating mode of the equipment
PK	Peak
RBW	resolution bandwidth
RF	Radio frequency
RSS	Radio Standards Specification, Dokuments from Industry Canada
Rx	Receiver
TCH	Traffic channel
Tx	Transmitter
QP	Quasi peak detector
VBW	Video bandwidth
ERP	Effective radiated power

6. Accreditation details of CETECOM's laboratories and test sites

Ref.-No.	Accreditation Certificate	Valid for laboratory area or test site	Accreditation Body
-	D-PL-12047-01-01	All laboratories and test sites of CETECOM GmbH, Essen	DAkkS, Deutsche Akkreditierungsstelle GmbH
337 487 558 348 348	MRA US-EU 0003	Radiated Measurements 30 MHz to 1 GHz, 3 m / 10 m (OATS) Radiated Measurements 30 MHz to 1 GHz, 3 m (SAR) Radiated Measurements above 1 GHz, 3 m (FAR) Mains Ports Conducted Interference Measurements Telecommunication Ports Conducted Interference Measurem.	FCC, Federal Communications Commission Laboratory Division, USA
337 487 550 558	3462D-1 3462D-2 3462D-2 3462D-3	Radiated Measurements 30 MHz to 1 GHz, 3 m / 10 m (OATS) Radiated Measurements 30 MHz to 1 GHz, 3 m (SAR) Radiated Measurements 1 GHz to 6 GHz, 3 m (SAR) Radiated Measurements above 1 GHz, 3 m (FAR)	IC, Industry Canada Certification and Engineering Bureau
487 550 348 348	R-2666 G-301 C-2914 T-1967	Radiated Measurements 30 MHz to 1 GHz, 3 m (SAR) Radiated Measurements 1 GHz to 6 GHz, 3 m (SAR) Mains Ports Conducted Interference Measurements Telecommunication Ports Conducted Interference Measurem.	VCCI, Voluntary Control Council for Interference by Information Technology Equipment, Japan
OATS = Open Area Test Site, SAR = Semi Anechoic Room, FAR = Fully Anechoic Room			

8. Versions of test reports (change history)

Version	Applied changes	Date of release
--	Initial release	2020-05-12
C1	MPE calculation updated according to new tune-up information	2020-11-24

END OF TEST REPORT