

TEST REPORT

No.: 19-1-0137401T10a

According to:
FCC Regulations
§1.1310
§ 2.1091 & 2.1093

for

Bosch Healthcare Solutions GmbH

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

FCC ID:
Vivatmo pro (Handheld): 2AVQ9VMPHH1
Vivatmo pro (Base Station): 2AVQ9VMPBS1



Laboratory Accreditation and Listings
<div style="text-align: center;"><p>Deutsche Akkreditierungsstelle D-PL-12047-01-01 D-PL-12047-01-03 D-PL-12047-01-04</p></div> <p>Accredited EMC-Test Laboratory</p>
accredited according to DIN EN ISO/IEC 17025:2018
<p>CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-0 • Fax: + 49 (0) 20 54 / 95 19-150 E-mail: contact@cetecom.com • Internet: www.cetecom.com</p>

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The listed attachments are integral parts 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 Equipment Under Test (in this report, hereinafter referred as EUT) is a system for quantitative measurement of fractional nitric oxide in human breath with wireless charging function and other technologies of wireless communication. The carrier frequency of the wireless charging function is at 148 kHz. It is categorized as a desktop device.

TEST OVERVIEW

No. of Diagram group	Test Cases	Port	References, Standards & Limits		EUT set-up	EUT op-mode	Result
			FCC	Limits			
1.1	Electric field strength	15 cm distance to EUT (surround the edge of the device)	§1.1310 §2.1091 §2.1093	614 (V/m)	1	1	Passed
1.1	Electric field strength	20 cm distance to EUT (top side of the device)	§1.1310 §2.1091 §2.1093	307 (V/m)	1	1	Passed
1.2	Magnetic field strength	15 cm distance to EUT (surround the edge of the device)	§1.1310 §2.1091 §2.1093	1.63 (A/m)	1	1	Passed
1.2	Magnetic field strength	20 cm distance to EUT (top side of the device)	§1.1310 §2.1091 §2.1093	0.815 (A/m)	1	1	Passed

Remark: --

Following tests have been performed to show compliance with applicable Standards:

FCC §1.1310, §2.1091 §2.1093

OET Bulletin 65 Supplement C

KDB 680106 D01 V03.

.....
Dipl.-Ing. M. Ridder
Responsible for test section

.....
M.Sc. G. Huang
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:	Volker Wittmann
Deputy:	Dipl.-Ing. Ninovic Perez

2.2. Test location

2.2.1. Test laboratory

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

Responsible for test report and project leader:	M.Sc. G. Huang
Receipt of EUT:	2019-Nov-06
Date(s) of test:	2019-Dec-12 to 2020-Mar-10
Date of report:	2020-May-29

Version of template:	13.02

2.4. Applicant's details

Applicant's name:	Bosch Healthcare Solutions GmbH
Address:	Stuttgarter Str. 130 71332 Waiblingen Germany
Contact person:	Mr. Markus Thürsam

2.5. Manufacturer's details

Manufacturer's name:	please see Applicant's details
Address:	please see Applicant's details

3. Equipment under test (EUT)

3.1. Technical data of main EUT declared by applicant

Main function	System for quantitative measurement of fractional nitric oxide (FeNO) in human breath with wireless power charging and other technologies of wireless communication (the other technologies are not tested in this report)		
Type	Vivatmo with WPC according Qi-Standard		
Carrier Frequency	148 kHz		
Max. nominal power	Ca. 1.3 W		
Antenna Type	Single coil		
Power supply	<input checked="" type="checkbox"/> 24 V DC over ACDC adapter		
Special EMI components	--		
EUT sample type	<input checked="" type="checkbox"/> Production	<input type="checkbox"/> Pre-Production	<input type="checkbox"/> Engineering
FCC-ID:	- Vivatmo pro (Handheld): 2AVQ9VMPPH1 - Vivatmo pro (Base Station): 2AVQ9VMPBS1		
FCC label attached	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	

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

Short description*)	EUT	Type	S/N serial number	HW hardware status (**)	SW software status (**)
EUT A S07***)	Vivatmo pro (Handheld)	System for quantitative measurement of fractional nitric oxide (FeNO) in human breath	B072BF0F0062	--	--
EUT B S15	Vivatmo pro (Base Station)	System for quantitative measurement of fractional nitric oxide (FeNO) in human breath	b827ebe6052d	F09G100168	Linux-Version: 4.4.35 SW-Version: 1.4.0

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

**) Information provided by applicant.

***) EUT A is a dummy handheld with no software and the hardware is manipulated to cause a constant load current

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

AE short description *)	Auxiliary Equipment	Type	S/N serial number	HW hardware status	SW software status
AE 1 S20	Power supply	UE electronic, model number UE36LCP-240150SPA	-	-	-

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

3.4. EUT set-ups

EUT set-up no. *)	Combination of EUT and AE	Remarks
set. 1	EUT A + EUT B + AE 1	-

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

3.5. EUT operating modes

EUT operating mode no. *)	Description of operating modes	Additional information
op. 1	Wireless charging	Wireless charging works only when the EUT A is placed at the defined position on top of the EUT B

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

3.6. Additional declaration and description of EUT

Set up 1	<input checked="" type="checkbox"/> table-top <input type="checkbox"/> floor-standing <input type="checkbox"/> wall-mounted <input type="checkbox"/> not defined	typical use <input type="checkbox"/> portable use <input type="checkbox"/> fixed use <input type="checkbox"/> vehicular use	
Place of use	<input checked="" type="checkbox"/> Residential, commercial and light industry <input type="checkbox"/> Industrial environment <input type="checkbox"/> vehicular use		
typical operating cycle of EUT	<input type="checkbox"/> < 0.5 sec. <input checked="" type="checkbox"/> : Not reported		
Power line: <input checked="" type="checkbox"/> AC <input checked="" type="checkbox"/> 120 V, <input type="checkbox"/> 230 V, <input type="checkbox"/> 400 V <input type="checkbox"/> PE, <input type="checkbox"/> N, <input type="checkbox"/> L1, <input type="checkbox"/> L2 <input type="checkbox"/> L3 <input type="checkbox"/> ___ Hz <input checked="" type="checkbox"/> DC <input checked="" type="checkbox"/> 24 V	EUT-grounding: <input type="checkbox"/> none <input checked="" type="checkbox"/> with power supply <input type="checkbox"/> additional: (in case of deviation during tests the single details are described on chapter 4)		
Other Ports (description of interconnecting cables) Description	possible total cable length	shielding	connected during test
1 Power Line	<input checked="" type="checkbox"/> < 3 m <input type="checkbox"/> > 3 m	<input type="checkbox"/> screened <input checked="" type="checkbox"/> unscreened	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Does EUT contain devices susceptible to magnetic fields, e.g. Hall elements, electrostatics, microphones, etc.?			<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Is mounting position / usual operating position defined?			<input type="checkbox"/> yes <input checked="" type="checkbox"/> no

4. Description of test system set-up's

4.1. Test Set-up for configuration

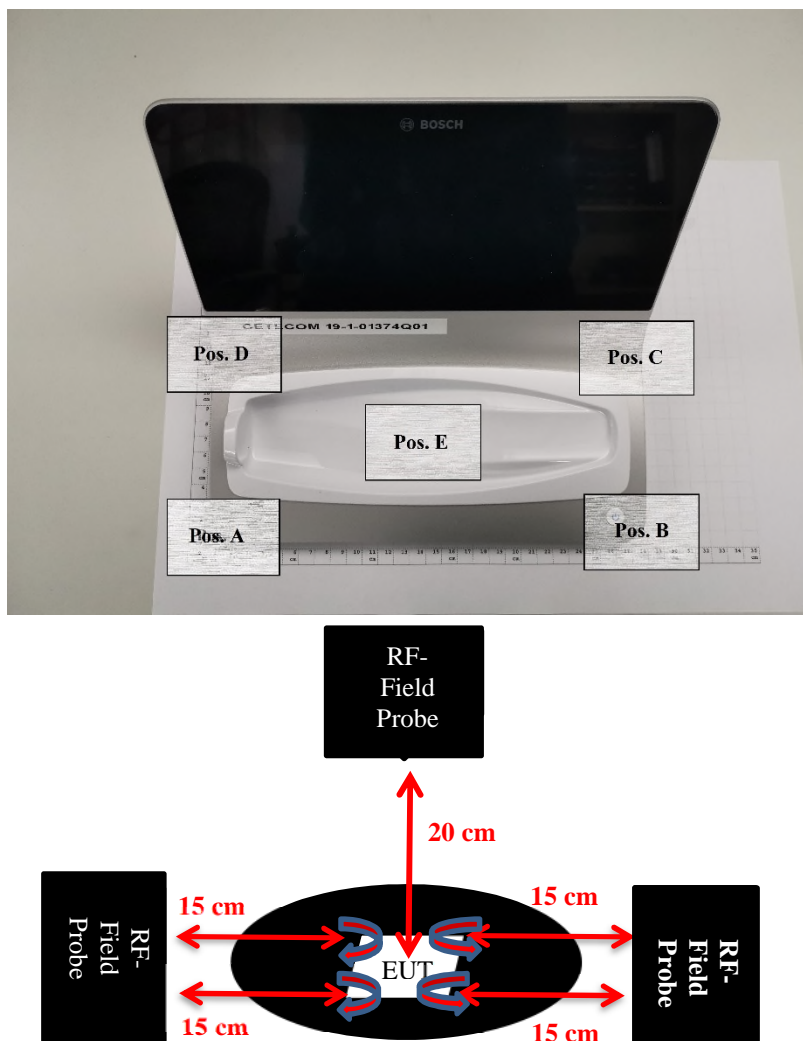
The RF exposure test is performed in shielded room.

The EUT was placed on a table.

The measurement probe was surrounding point A to point D at a distance of 15 cm from the EUT and 20 cm above the top surface (point E) for H-field and E-field strength

The distances were declared as the worst case by the customer

EUT B:



Schematic: Test set-up for RF exposure measurements

Measurement for E-Field with NBM550 + EF 0391 probe

Measurement for H-Field with ELT 400 + ELT probe 100 cm²

5. Maximum Permissible RF Exposure

5.1.FCC References & Limits

FCC Rules: §1.1310, §2.1093

The criteria used for the evaluation of human exposure to radio frequency radiation is listed in table 1 according FCC §1.1307 (b, except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this.

Note 1 to table 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provide those persons are fully aware for a exposure and can control over their exposure. Limits for occupational/controlled exposures also apply in situations when an individual is transient through a location where occupational/controlled apply provided he or she is made aware of the potential for exposure.

Note 2 to table 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or 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.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)—Continued

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	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/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

f = frequency in MHz

So applicable limits in this case are as follows:

§1.1310 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Table 1(B) Limits for General Population/Uncontrolled Exposure

0.3 MHz –1.34 MHz: Electric field: 614 V/m

0.3 MHz –1.34 MHz: Magnetic field: 1.63 A/m

5.2. E-Field Results

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

test location	<input checked="" type="checkbox"/> CETECOM Essen (Chapter 2.2.1)	<input type="checkbox"/> Please see Chapter 2.2.2		<input type="checkbox"/> Please see Chapter 2.2.3	
equipment	<input checked="" type="checkbox"/> NBM 550	<input checked="" type="checkbox"/> EF 0391	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
signaling	<input type="checkbox"/> 017 CMD 65	<input type="checkbox"/> 323 CMD 55	<input type="checkbox"/> 340 CMD 55		
signaling	<input type="checkbox"/> 298 CMU	<input type="checkbox"/> 460 CMU	<input type="checkbox"/> 295 RACAL	<input type="checkbox"/> 392 MT8820A	
line voltage	<input checked="" type="checkbox"/> 24 V DC over ACDC adapter				

5.2.2. Test condition and test set-up

link to test system (if used):	<input type="checkbox"/> air link	<input type="checkbox"/> cable connection	
EUT-grounding (if different to chapter 3.5)	<input type="checkbox"/> none	<input checked="" type="checkbox"/> with power supply	<input type="checkbox"/> additional connection
Equipment set up	-		
Climatic conditions	Temperature: 24 °C	Rel. humidity: 31% rH	

5.2.3. Results

Table 1:

The aggregate E-Field strengths at defined distance surrounding the device and on top of the device:

EUT Type and S/N or EUT set-up no.		EUT set-up 1						
EUT operating mode or operating mode no.		EUT operating mode 1						
Frequency Range [kHz]	Distance between EUT and Field probe [m]	E-field [V/m]					E-field Limit [V/m]	Result
		A	B	C	D	E/Top		
148	0.15	0.10	0.20	0.32	0.27	-	614	passed
148	0.20	-	-	-	-	0.36	307	passed

Remark: Max E-Field, 20 cm distance between EUT and probe (top side)

EUT A: Max value reads 0.36 V/m.



5.3. H-Field Results

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

test location	<input checked="" type="checkbox"/> CETECOM Essen (Chapter 2.2.1)	<input type="checkbox"/> Please see Chapter 2.2.2	<input type="checkbox"/> Please see Chapter 2.2.3
equipment	<input checked="" type="checkbox"/> 802 ELT400	<input checked="" type="checkbox"/> 803 ELT probe 3 cm ²	<input type="checkbox"/>
signaling	<input type="checkbox"/> 017 CMD 65	<input type="checkbox"/> 323 CMD 55	<input type="checkbox"/> 340 CMD 55
signaling	<input type="checkbox"/> 298 CMU	<input type="checkbox"/> 460 CMU	<input type="checkbox"/> 295 RACAL
line voltage	<input checked="" type="checkbox"/> 24 V DC over ACDC adapter		<input type="checkbox"/> 392 MT8820A

5.3.2. Test condition and test set-up

link to test system (if used):	<input type="checkbox"/> air link	<input type="checkbox"/> cable connection	
EUT-grounding (if different to chapter 3.5)	<input type="checkbox"/> none	<input checked="" type="checkbox"/> with power supply	<input type="checkbox"/> additional connection
Equipment set up	-		
Climatic conditions	Temperature: 24 °C	Rel. humidity: 31% rH	

Table 2:

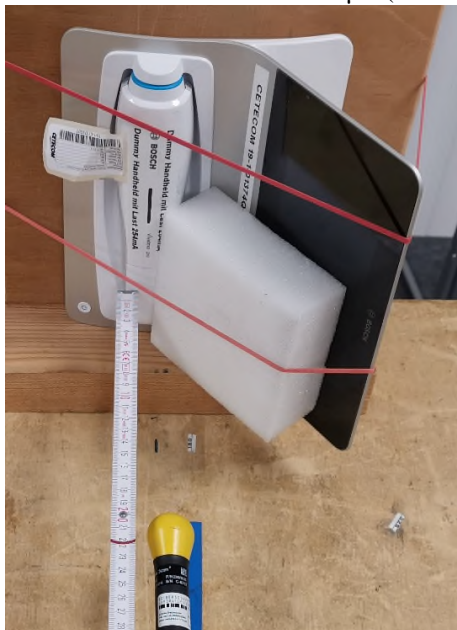
The aggregate H-Field strengths at defined distance surrounding the device and on top of the device:

EUT Type and S/N or EUT set-up no.		EUT set-up 1						
EUT operating mode or operating mode no.		EUT operating mode 1						
Frequency Range [kHz]	Distance between EUT and Field probe [m]	H-field [A/m]					H-field Limit [A/m]	Result
		A	B	C	D	E/Top		
148	0.15	0.239	0.239	0.240	0.240	-	1.63	passed
148	0.20	-	-	-	-	0.240	0.815	passed

Remark: The H-field is measured in μT and converted into A/m, where $1 \text{ A/m} = 1.256 \mu\text{T}$.

Remark: Max H-Field, 20 cm distance between EUT and probe (top side)

EUT A: Max value reads $0.302 \mu\text{T}$ (= 0.240 A/m)



6. 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 its contribution to the overall uncertainty according to its statistical distribution calculated.

Following table shows expectable uncertainties for each measurement type performed.

RF-Measurement	Frequency range	Calculated uncertainty based on a confidence level of 95%	Remarks:
Power Output conducted	9 kHz - 20 GHz	1.0 dB	--
Power Output radiated	30 MHz - 4 GHz	3.17 dB	Substitution method
Conducted emissions on antenna ports	9 kHz - 20 GHz	1.0 dB	--
Radiated emissions enclosure	9 kHz - 30 MHz	5.0 dB	Magnetic field
	9 MHz - 1 GHz	5.0 dB	E-Field
	30 MHz - 1 GHz	4.2 dB	E-Field
	1 GHz - 20 GHz	3.17 dB	Substitution method
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
		1.0 dB	Power
Frequency stability	9 kHz - 20 GHz	0.0636 ppm	--
Conducted emissions on AC-mains port (U _{CISPR})	9 kHz - 150 kHz	4.0 dB	--
	150 kHz - 30 MHz	3.6 dB	--

Table: measurement uncertainties, valid for conducted/radiated measurements

7. 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 Measurement.	FCC, Federal Communications Commission Laboratory Division, USA (MRA US-EU 0003)
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)	ISED, Innovation, Science and Economic Development Canada
337 487 550 348	R-20013 G-20013 C-20009 T-20006	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 Measurement.	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. Instruments and Ancillary

8.1. Used equipment

The “Ref.-No” in the left column of the following tables allows the clear identification of the laboratory equipment.

8.1.1. Test software and firmware of equipment

Ref.-No.	Equipment	Type	Serial-No.	Version of Firmware or Software during the test
001	EMI Test Receiver	ESS	825132/017	Firm.= 1.21 , OTP=2.0, GRA=2.0
012	Signal Generator (EMS-cond.)	SMY 01	839069/027	Firm.= V 2.02
013	Power Meter (EMS cond.)	NRVD	839111/003	Firm.= V 1.51
017	Digital Radiocommunication Tester	CMD 60 M	844365/014	Firmware = V 3.52 .22.01.99, DECT = D2.87 13.01.99
053	Audio Analyzer	UPA3	860612/022	Firm. V 4.3
119	RT Harmonics Analyzer dig. Flickermeter	B10	G60547	Firm.= V 3.1DHG
140	Signal Generator	SMHU	831314/006	Firm.= 3.21
261	Thermal Power Sensor	NRV-Z55	825083/0008	EPROM-Datum 02.12.04, SE EE 1 B
262	Power Meter	NRV-S	825770/0010	Firm.= 2.6
263	Signal Generator	SMP 04	826190/0007	Firm.=3.21
264	Spectrum Analyzer	FSEK 30	826939/005	Bios=2.1, Analyzer= 3.20
295	Racal Digital Radio Test Set	6103	1572	UNIT Firmware= 4.04, SW-Main=4.04, SW-BBP=1.04, SW-DSP=1.02, Hardboot=1.02, Softboot=2.02
298	Univ. Radio Communication Tester	CMU 200	832221/091	R&S Test Firmware =3.53 /3.54 (current Testsoftw. f. all band used
323	Digital Radiocommunication Tester	CMD 55	825878/0034	Firm.= 3.52 .22.01.99
331	Climatic Test Chamber -40/+80 Grad	HC 4055	43146	TSI 1.53
335	CTC-EMS-Conducted	System EMS Conducted	-	EMC 32 V 8.52
340	Digital Radiocommunication Tester	CMD 55	849709/037	Firm.= 3.52 .22.01.99
355	Power Meter	URV 5	891310/027	Firm.= 1.31
365	10V Insertion Unit 50 Ohm	URV5-Z2	100880	Eprom Data = 31.03.08
366	Ultra Compact Simulator	UCS 500 M4	V0531100594	Firm. UCS 500=001925/3.06a02, rc=ISMIEC 4.10
371	Bluetooth Tester	CBT32	100153	CBT V5.30+ SW-Option K55, K57
377	EMI Test Receiver	ESCS 30	100160	Firm.= 2.30, OTP= 02.01, GRA= 02.36
378	Broadband RF Field Monitor	RadiSense III	03D00013SNO-08	Firm.= V.03D13
389	Digital Multimeter	Keithley 2000	0583926	Firm. = A13 (Mainboard) A02 (Display)
392	Radio Communication Tester	MT8820A	6K00000788	Firm.= 4.50 #005, IPL=4.01#001, OS=4.02#001, GSM=4.41#013, W-CDMA= 4.54#004, scenario= 4.52#002
436	Univ. Radio Communication Tester	CMU 200	103083	R&S Test Firmware Base=5.14, Mess-Software= GSM:5.14 WCDMA:5.14 (current Testsoftw. F. all band
441	CTC-SAR-EMI Cable Loss	System EMI field (SAR)	-	EMC 32 Version 8.52
442	CTC-SAR-EMS	System EMS field (SAR)	-	EMC 32 Version 8.40
443	CTC-FAR-EMI-RSE	System CTC-FAR-EMI-RSE	-	Spuri 7.2.5 or EMC 32 Ver. 9.15.00
444	CTC-FAR-EMS field	System-EMS-Field (FAR)	-	EMC 32 Version 9.15.00
460	Univ. Radio Communication Tester	CMU 200	108901	R&S Test Firmware Base=5.14, GSM=5.14 WCDMA=5.14 (current Testsoftw..f. all band to be used,
489	EMI Test Receiver	ESU40	1000-30	Firmware=4.43 SP3, Bios=V5.1-16-3, Spec. =01.00
491	ESD Simulator dito	ESD dito	dito307022	V 2.30
524	Voltage Drop Simulator	VDS 200	0196-16	Software Nr: 000037 Version V4.20a01
526	Burst Generator	EFT 200 A	0496-06	Software Nr. 000034 Version V2.32
527	Micro Pulse Generator	MPG 200 B	0496-05	Software-Nr. 000030 Version V2.43
528	Load Dump Simulator	LD 200B	0496-06	Software-Nr. 000031 Version V2.35a01
546	Univ. Radio Communication Tester	CMU 200	106436	R&S Test Firmware Base=5.14, GSM=5.14 WCDMA=5.14 (current Testsoftw..f. all band to be used
547	Univ. Radio Communication Tester	CMU 200	835390/014	R&S Test Firmware Base=V5.1403 (current Testsoftw., f. all band used, GSM = 5.14 WCDMA: = 5.14
584	Spectrum Analyzer	FSU 8	100248	2.82_SP3
597	Univ. Radio Communication Tester	CMU 200	100347	R&S Test Firmware Base=5.01, GSM=5.02 WCDMA= not installed, Mainboard= µP1=V.850
598	Spectrum Analyzer	FSEM 30 (Reserve)	831259/013	Firmware Bios 3.40 , Analyzer 3.40 Sp 2
620	EMI Test Receiver	ESU 26	100362	4.43_SP3
642	Wideband Radio Communication Tester	CMW 500	126089	Setup V03.26, Test programm component V03.02.20
692	Bluetooth Tester	CBT 32	100236	CBT V 5.40, FW: V.2.41 (FPGA Digital, V. 3.09 FPGA RF)

8.1.2. Single instruments and test systems

Ref.-No.	Equipment	Type	Serial-No.	Manufacturer	Interval of calibration	Remark	Cal due
487	System CTC NSA-Verification SAR-EMI	System EMI field (SAR) NSA	-	ETS Lindgren / CETECOM	24 M	-	16.03.2021
468	Digital Multimeter	Fluke 112	90090455	Fluke USA	36 M	-	30.04.2021
802	Exposure Level Tester	ELT-400	O-0026	NARDA Safety Solutions	24 M	-	30.01.2021
803	Probe	ELT probe 3 cm ²	O-0026	Narda Safety Test Solution	24 M	-	30.01.2021
--	Broadband Field Meter	NBM 550	A-0150	Narda Safety Test Solution	24 M	-	05.08.2021
--	E-Field Probe	EF 0391	A-0124	Narda Safety Test Solution	24 M	-	05.08.2021

8.1.3. Legend

Note / remarks		Calibrated during system calibration:
	1a	System CTC-SAR-EMS (Ref.-No. 442)
	1b	System-CTC-EMS-Conducted (Ref.-No. 335)
	1c	System CTC-FAR-EMI-RSE (Ref.-No. 443)
	1d	System CTC-SAR-EMI (Ref.-No. 441)
	1e	System CTC-OATS (EMI radiated) (Ref.-No. 337)
	1 f	System CTC-CTIA-OTA (Ref.-No. 420)
	1 g	System CTC-FAR-EMS (Ref.-No. 444)
	2	Calibration or equipment check immediately before measurement
	3	Regulatory maintained equipment for functional check or support purpose
	4	Ancillary equipment without calibration e.g. mechanical equipment or monitoring equipment
	5	Test System

Interval of calibration		
12 M		12 month
24 M		24 month
36 M		36 month
24/12 M		Calibration every 24 months, between this every 12 months internal validation
36/12 M		Calibration every 36 months, between this every 12 months internal validation
Pre-m		Check before starting the measurement
-		Without calibration

9. Versions of test reports (change history)

Version	Applied changes	Date of release
--	Initial release	2020-May-29

End of Test Report