

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



Accredited EMC-Test Laboratory

accredited according to DIN EN ISO/IEC 17025:2018

CETECOM GmbH

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Table of contents

1. SUMMARY OF TEST RESULTS	3
2. ADMINISTRATIVE DATA	4
2.1. Identification of the testing laboratory 2.2. Test location 2.3. Organizational items 2.4. Applicant's details 2.5. Manufacturer's details	4 4 4
3. EQUIPMENT UNDER TEST (EUT)	5
3.1. Technical data of main EUT declared by applicant 3.2. EUT: Type, S/N etc. and short descriptions used in this test report 3.3. Auxiliary Equipment (AE): Type, S/N etc. and short descriptions 3.4. EUT set-ups 3.5. EUT operating modes 3.6. Additional declaration and description of EUT	5 5 6
4. DESCRIPTION OF TEST SYSTEM SET-UP'S	7
4.1. Test Set-up for configuration	7
5. MAXIMUM PERMISSIBLE RF EXPOSURE	8
5.1. FCC References & Limits	9
6. MEASUREMENT UNCERTAINTIES	11
7. ACCREDITATION DETAILS OF CETECOM'S LABORATORIES AND TEST SITES	S 11
8. INSTRUMENTS AND ANCILLARY	12
8.1. Used equipment	12
9. VERSIONS OF TEST REPORTS (CHANGE HISTORY)	13
Table of annex	Total pages
Annex 1: External photographs of EUT (separate document) TR19_1_0137401T10a_A1	9
Annex 2: Test setup photographs (separate document) TR19_1_0137401T10a_A2	4

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 <u>Equipment Under Test</u> (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, S Limits	Standards &	EUT	EUT op-	Result
		1 0.0	FCC	Limits	set-up	mode	Result
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

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

	t of fractional nitric oxid					
Main function	breath with wireless power charging					
	communication (the other technologi	es are not tested in this r	report)			
Туре	Vivatmo with WPC according Qi-Sta	andard				
Carrier Frequency	148 kHz					
Max. nominal power	Ca. 1.3 W					
Antenna Type	Single coil					
Power supply	■ 24 V DC over ACDC adapter					
Special EMI components						
EUT sample type	☑ Production	☐ Pre-Production	☐ Engineering			
FCC-ID:	- Vivatmo pro (Handheld): 2AVQ9VMPHH1					
FCC-ID:	- Vivatmo pro (Base Station): 2AVQ9VMPBS1					
FCC label attached	□ yes	x no				

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

Short descrip- tion*)	EUT	Туре	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.

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

AE short description *)	Auxiliary Equipment	Туре	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.

^{**)} Information provided by applicant.

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



3.4. 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

	table-top	typical use				
Set up 1	☐ floor-standing	portable use				
Set up 1	\square wall-mounted \square fixed use					
	□ not defined	□ vehicular use				
	🗷 Residential, commercial and lig	ght industry				
Place of use	☐ Industrial environment					
	□ vehicular use					
typical operating cycle of EUT	$\square < 0.5 \text{ sec.}$ \square : Not reported					
Power line:	EUT-grounding:					
☑ AC ☑ 120 V, □ 230 V, □ 400 V	□ none					
\square PE, \square N, \square L1, \square L2 \square L3	with power supply					
□ Hz	□ additional:					
⊠ DC ⋈ 24 V	(in case of deviation during tests the single	details are described of	on chapter 4)			
Other Ports (description of interconnecting cables)			connected			
Description	possible total cable length	shielding	during test			
1 Power Line	区 < 3 m □> 3 m	☐ screened	▼ yes			
1 I OWEL LINE		unscreened unscreened	□ no			
Does EUT contain devices susceptible to magnetic fields, e.g. Hall elements, electrodynamics			□ yes			
microphones, etc.?						
Is mounting position / usual operating position of	defined?		□ yes ェ no			



4. Description of test system set-up's

4.1. Test Set-up for configuration

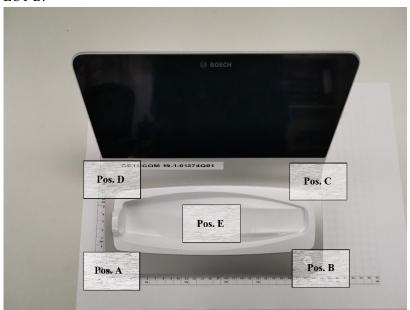
The RF exposure test is performed in shielded room.

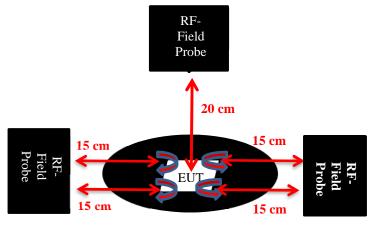
The EUT was placed on a table.

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-filed 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 cm^2



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/cm²)	Averaging time (minutes)
30–300	61.4	0.163	1.0 f/300 5	6 6 6
(B) Limits	for General Populati	on/Uncontrolled Exp	posure	
0.3–1.34	614 824/f	1.63 2.19/f	*(100) *(180/f²)	30 30
30–300 300–1500 1500–100,000	27.5	0.073	0.2 f/1500 1.0	30 30 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	☑ CETECOM Essen (Chapter 2.2.1)		☐ Please see Chapter 2.2.2		☐ Please see Chapter 2.2.3	
equipment	■ NBM 550	区 EF 0391				
signaling	□ 017 CMD 65	□ 323 CMD 55	□ 340 CMD 55			
signaling	□ 298 CMU	□460 CMU	□ 295 RACAL	□ 392 MT8820A		
line voltage	ge 🗷 24 V DC over ACDC adapter					

5.2.2. Test condition and test set-up

link to test system (if used):	☐ air link ☐ cable connection	
EUT-grounding (if different to chapter 3.5)	☐ none ☑ with power supply ☐ additional conne	ection
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:

of the device.								
	and S/N or set-up no.	EUT set-up 1			ıp 1			
	EUT operating mode or operating mode no.		EUT operating m			node 1		
Frequency Distance between Range EUT and Field probe		E-field [V/m]				E-field Limit	Result	
[kHz]	[kHz] [m]		В	С	D	E/Top	[V/m]	
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	☑ CETECOM Essen (Chapter 2.2.1)		☐ Please see Chapter 2.2.2		☐ Please see Chapte	er 2.2.3
equipment	■ 802 ELT400	■ 803 ELT probe 3 cm ²				
signaling	□ 017 CMD 65	□ 323 CMD 55	□ 340 CMD 55			
signaling	□ 298 CMU	□460 CMU	□ 295 RACAL	□ 392 MT8820A		
line voltage	≥ 24 V DC over A	CDC adapter				

5.3.2. Test condition and test set-up

link to test system (if used):	□ air link	□ cable connection	
EUT-grounding (if different to chapter 3.5)	□ none	with power supply	□ additional connection
Equipment set up	-		-
Climatic conditions	Temperatur	e: 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:

V2								
EUT Type a	EUT set-up 1							
EUT operating operating		EUT operating mode 1						
Frequency Range	Distance between EUT and Field probe	H-field [A/m]			H-field Limit	Result		
[kHz]	[m]	A	В	С	D	E/Top	[A/m]	
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 μ T and converted into A/m, where 1 A/m = 1.256 μ T.

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

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







6. Measurement uncertainties

The reported uncertainties are calculated based on the standard uncertainty multiplied with the appropriate coverage factor \mathbf{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	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	
	9 kHz - 30 MHz	5.0 dB	Magnetic field
Radiated emissions enclosure	9 MHz - 1 GHz	5.0 dB	E-Field
Radiated emissions enclosure	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
Occupied bandwidth		1.0 dB	Power
Emission bandwidth	9 kHz - 4 GHz	0.1272 ppm (Delta Marker)	Frequency error
Emission bandwidth		1.0 dB	Power
Frequency stability	9 kHz - 20 GHz	0.0636 ppm	
Conducted emissions	9 kHz - 150 kHz	4.0 dB	
on AC-mains port (U _{CISPR})	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 Measurem.	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 Measurem.	VCCI, Voluntary Control Council for Interference by Information Technology Equipment, Japan				
OATS	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

RefNo.	Equipment	Туре	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)
L				



8.1.2. Single instruments and test systems

RefNo.	Equipment	Туре	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	1	05.08.2021
	E-Field Probe	EF 0391	A-0124	Narda Safety Test Solution	24 M	- 1	05.08.2021

8.1.3. Legend

Note / remarks		Calibrated during system calibration:
	1a	System CTC-SAR-EMS (RefNo. 442)
	1b	System-CTC-EMS-Conducted (RefNo. 335)
	1c	System CTC-FAR-EMI-RSE (RefNo . 443)
	1d	System CTC-SAR-EMI (RefNo . 441)
	1e	System CTC-OATS (EMI radiated) (RefNo. 337)
	1 f	System CTC-CTIA-OTA (RefNo . 420)
	1 g	System CTC-FAR-EMS (RefNo . 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