

PARTIAL Test Report

1-0684-25-02-02_TR1-R02

Number of pages: 27 Date of Report: 2026-Jan-28

Testing company: cetecom advanced GmbH
Untertuerkheimer Str. 6-10
66117 Saarbruecken
GERMANY Applicant: Husqvarna AB

Product: Connectivity device
Model: IRIS

FCC ID: ZASIRIS03 IC: 23307-IRIS03
PMN: IRIS
HVIN: IRIS03

Testing has been carried out in accordance with: FCC Regulations
Title 47 CFR, Chapter I, Subchapter A, Part 15
Subpart C Intentional Radiators
§ 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ISED-Regulations
Radio Standards Specification
RSS-Gen, Issue 5
General Requirements for Compliance of Radio Apparatus
RSS-247, Issue 4
Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Device

Tested Technology: BLE

Test Results: ☒ The EUT complies with the requirements in respect of selected parameters subject to the test.
The test results relate only to devices specified in this document
The current version of Test Report 1-0684-25-02-02_TR1-R02 replaces the test report 1-0684-25-02-02_TR1-R01 dated 2025-Nov-05.
The replaces test report is herewith invalid.

Signatures:  CN = Martin Nunier email = Martin.Nunier@cetecomadvanced.com C = DE O = cetecom advanced GmbH OU = Radio Labs 2026.02.05 13:09:51 + 01'00'  Salih Öztan
B.Eng. Martin Nunier Lab Manager
Supervisor Radio Services Responsible of test report
Authorization of test report

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The listed attachments are separate documents.			

1 General information

1.1 Disclaimer and Notes

The test results of this test report relate exclusively to the test item specified in this test report as specified in chapter 2.7. cetecom advanced does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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Also we refer on special conditions which the applicant should fulfill according §2.927 to §2.948, special focus regarding modification of the equipment and availability of sample equipment for market surveillance tests.

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 of the above requirements are met in accordance with enumerated standards.

1.3 Summary of Test Results

The EUT integrates a BLE transmitter. Other implemented wireless technologies were not considered within this test report.

Test case	Reference Clause FCC ☒	Reference Clause ISED ☒	Page	Remark	Result
Duty-Cycle	§15.35(c)	RSS-Gen Issue 5, §8.2	--	--	NP
Minimum Emission Bandwidth 6 dB	§15.247 5.2(a)	RSS-247, Issue 4, §6.3.1(a) RSS-Gen Issue 5, §6.7	--	--	NP
Occupied Channel Bandwidth 99%	2.1049(h)	RSS-Gen Issue 5, §6.7	--	--	NP
Peak output power (Sweep)	§15.247(b)(3)	RSS-247, Issue 4, §6.2.3.2(a)	11	--	Passed
Transmitter Peak output power radiated	§15.247(b)(4)(c)(i)	RSS-247, Issue 4, §6.2.3.2(c)	--	--	NP
Emissions in non-restricted frequency bands	§15.247(d)	RSS-247, Issue 4, §5.5	--	--	NP
Radiated Band-Edge emissions	§15.205(b) §15.247(d)	RSS-Gen: Issue 5 §8.9, §8.10 RSS-247, Issue 4, §6.6	22	--	Passed
Power spectral density	§15.247(e)	RSS-247, Issue 4, §6.3.1(b)	--	--	NP
Radiated field strength emissions below 30 MHz	§15.205(a) §15.209(a)	RSS-Gen: Issue 5 §8.9 Table 6	15	--	PASSED
Radiated field strength emissions 30 MHz – 1 GHz	§15.209 §15.247(d)	RSS-Gen: Issue 5 §8.9 Table 5 RSS-247, Issue 4, §6.6	17	--	PASSED
Radiated field strength emissions above 1 GHz	§15.209(a) §15.247(d)	RSS-Gen: Issue 5: §8.9 Table 5+7 RSS-247, Issue 4, §6.6	20	--	PASSED
AC-Power Lines Conducted Emissions	§15.207	RSS-Gen Issue 5: §8.8 Table 4	--	--	--

PASSED

The EUT complies with the essential requirements in the standard.

FAILED

The EUT does not comply with the essential requirements in the standard.

N/A

Test case does not apply to the test object.

NP

The test was not performed by the cetecom advanced laboratory.

Decision Rule: cetecom advanced GmbH follows [ILAC G8:2019 chapter 4.2.1 \(Simple Acceptance Rule\)](#).

Remarks:

- Please check the module report “Test-Report-3690487” for not performed Measurements by the cetecom advanced GmbH laboratory.

1.4 Summary of Test Methods

Test case	Test method
Duty-Cycle	ANSI C63.10:2020, §11.6(b)
Minimum Emission Bandwidth 6 dB	ANSI C63.10:2020, §6.9.2, §11.8
Occupied Channel Bandwidth 99%	ANSI C63.10:2020, §6.9.3
Peak output power (Sweep)	ANSI C63.10:2020, §11.9
Power spectral density	ANSI C63.10:2020, §11.10
Emissions in non-restricted frequency bands	ANSI C63.10:2020, §11.11, §6.10.5
Radiated Band-Edge emissions	ANSI C63.10-2020; "Marker-Delta method", §6.10.5, §12.7.4.4.2
Transmitter Peak output power radiated	Result calculated with measured conducted RF-power value and stated/measured antenna gain for band of interest
Radiated field strength emissions below 30 MHz	ANSI C63.10-2020 §6.3, §6.4
Radiated field strength emissions 30 MHz- 1 GHz	ANSI C63.4-2014 §8.2.3, ANSI C63.10-2020 §6.3, §6.5
Radiated field strength emissions above 1 GHz	ANSI C63.4-2014 §8.3, ANSI C63.10-2020 §6.3, §6.6
AC-Power Lines Conducted Emissions	ANSI C63.4-2014 §7, ANSI C63.10-2020 §6.2

And reference also to Test methods in KDB558074

2 Administrative Data

2.1 Identification of the Testing Laboratory

Company name:	cetecom advanced GmbH
Address:	Untertuerkheimer Str. 6-10 66117 Saarbruecken Germany
Responsible for testing laboratory:	Dipl.-Ing. (FH) Andreas Luckenbill M.Sc.
Accreditation scope:	DAkkS Webpage: FCC ISED
IC Lab company No. / CAB ID:	3462D / DE0001
Test location 1:	Im Teelbruch 116; 45219 Essen
Test location 2:	--

2.2 General limits for environmental conditions

Temperature:	22±2 °C
Relative. humidity:	45±15% rH

2.3 Test Laboratories sub-contracted

Company name:	--
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2.4 Organizational Items

Responsible testing manager:	Salih Öztan
Receipt of EUT:	2025-Sep-12
Date(s) of test:	2025-Sep-12 to 2025-Oct-10
Version of template:	24.1101

2.5 Applicant's details

Applicant's name:	Husqvarna AB
Address:	Drottninggatan 2 56182 Huskvarna Sweden
Contact Person:	Therese Berg
Contact Person's Email:	therese.berg@husqvarnagroup.com

2.6 Manufacturer's details

Manufacturer's name:	Husqvarna AB
Address:	Drottninggatan 2 56182 Huskvarna Sweden

2.7 Equipment under Test (EUT)

EUT No. *)	Sample No.	Product	Model	Type	SN	HW	SW
EUT 1	57.507	Connectivity device	IRIS	IRIS03	N/A	5901016	IRIS_HCI-002
EUT 2	57.169	Connectivity device	IRIS	IRIS03	N/A	5901016	IRIS_HCI-002

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

2.8 Untested Variant (VAR)

VAR No. *)	Sample No.	Product	Model	Type	SN	HW	SW
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*) The listed additional untested model variant(s) (VAR) is/are not object of evaluation of compliance. For further information please see Annex 5: Declaration of applicant of model differences.

If the table above does not show any other line than the headline, no untested variants are available.

2.9 Auxiliary Equipment (AE)

AE No. *)	Sample No.	Auxiliary Equipment	Model	SN	HW	SW
AE 1	24-1-00238S06_C01	Laptop	LIFEBOOK U Series	N/A	N/A	N/A

*) AE short description is used to simplify the identification of the auxiliary equipment in this test report. If the table above does not show any other line than the headline, no AE was used during testing nor was taken into account for evaluation

2.10 Connected cables (CAB)

CAB No. *)	Sample No.	Cable Type	Connectors / Details	Length
CAB 1	59.088	Power Cable	N/A	< 300 cm
CAB 2	59.093	UART	N/A	< 300 cm

*) CAB short description is used to simplify the identification of the connected cables in this test report. If the table above does not show any other line than the headline, no cable was used during testing nor was taken into account for evaluation

2.11 Software (SW)

SW No. *)	Sample No.	SW Name	SW Status
SW 1	--	HCI Tester	v3.0.0.37

*) SW short description is used to simplify the identification of the used software in this test report. If the table above does not show any other line than the headline, no SW was used during testing nor was taken into account for evaluation.

2.12 EUT set-ups

set-up no. *)	Combination of EUT and AE	Description
1	EUT 1+ CAB 1 + *(AE 1 + CAB 2)	Used for radiated measurements *(AE 1 + CAB 2) was used only for configuration
2	EUT 2 + AE 1 + CAB 1+ CAB 2	Used for conducted measurements

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

2.13 EUT operation modes

EUT operating mode no. *)	Operating modes	Additional information
op. 1	BLE_TX-Mode	With help of special test firmware TX-mode was set-up. We refer to applicants information/papers for details about necessary commands.

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

3 Equipment under test (EUT)

3.1 General Data of Main EUT as Declared by Applicant

Firmware	☐ for normal use	☒ Special version for test execution	
Power supply	☐ AC Mains	-	
	☒ DC Mains	12 V DC	
	☐ Battery	-	
Operational conditions	T _{nom} = +21 °C	T _{min} = N/A	T _{max} = N/A
EUT sample type	Pre-Production		
Size [LxWxH]	15.0 cm x 7.5 cm x 6.0 cm		
Interfaces/Ports	--		
For further details refer Applicants Declaration & following technical documents			
For further details regarding radio parameters, please refer to Bluetooth Core Specification			

3.2 Detailed Technical data of Main EUT as Declared by Applicant

Frequency Band	2.4 GHz ISM Band (2400 MHz - 2483.5 MHz)		
Number of Channels (USA/Canada -bands)	40 (37 Hopping + 3 Advertising)		
Nominal Channel Bandwidth	1 MHz		
Type of Modulation Data Rate	☒ GFSK 1 Mbit/s	☐ GFSK 2 Mbit/s	
	☐ GFSK 500 kbit/s	☐ GFSK 125 kbit/s	
Other wireless options	☐ a/n/ac mode ☐ b/g/n mode ☐ Bluetooth EDR (not tested within this report) ☐ Cellular transceiver (2G/3G/4G/5G/GPS, not tested in this report)		
Max. Conducted Output Power	GFSK -4.04 dBm (Initial Approval Output Power: -1.29 dBm)		
EIRP Power (Calculated EIRP)	GFSK -4.04 dBm + 3.7 dBi = -0.34 dBm (Initial Approval EIRP Power: 2.41 dBm)		
Antenna Type	Internal Antenna		
Antenna Gain	3.7 dBi		
FCC label attached	No		
Test firmware / software and storage location	EUT 1		
For further details refer Applicants Declaration & following technical documents			
Description of Reference Document (supplied by applicant)	Version	Total Pages	
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3.3 Modifications on Test sample

Additions/deviations or exclusions	--
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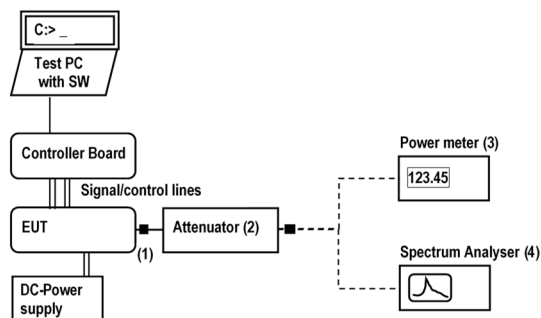
4 Measurements

4.1 Peak output power (Sweep)

4.1.1 Description of the general test setup and methodology, see below example:

The EUT's RF-signal is coupled out by a suitable antenna coupling connector (1). The signal is first attenuated (2) then connected to power meter (3) or spectrum-analyzer (4) for RF-conducted measurements. The specific attenuation loss is determined prior to the measurement within a set-up attenuation measurement. These are then taken into account by correcting the measurement readings.

Schematic:



Testing method:

The measurement is made according to relevant reference clauses:

(See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

Measurement is made using Rohde & Schwarz TS8997 test system.

Test method	PKPM1 Peak reading power meter (broadband PK RF-power meter)
Remarks	--

The measurement was performed in non-hopping transmission mode with the carrier set to lowest/middle and highest channel.

EUT settings

The EUT was instructed to send with maximum power (if adjustable) according applicants instructions.

Different modulation characteristics have been checked, e.g. data rates which EUT can operate

4.1.2 Measurement Location

Test site	120910 - Radio Laboratory 1 (TS 8997)
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4.1.3 Limit

Frequency Range [MHz]	Limit [W]	Limit [dBm]	Detector	RBW / VBW [MHz]
2400 - 2483.5	1	30	MaxPeak	3 / 10

4.1.4 Result

Mode	Channel	Frequency [MHz]	Max Peak Power [dBm]	Result
BLE GFSK 1Mbps	0	2402	-1.53	Passed
BLE GFSK 1Mbps	17	2440	-1.29	Passed
BLE GFSK 1Mbps	39	2480	-1.32	Passed

4.1.5 Result Power verification

Mode	Channel	Frequency [MHz]	Max Peak Power [dBm]	Result
BLE GFSK 1Mbps	0	2402	-4.04	Passed
BLE GFSK 1Mbps	17	2440	-4.53	Passed
BLE GFSK 1Mbps	39	2480	-5.48	Passed

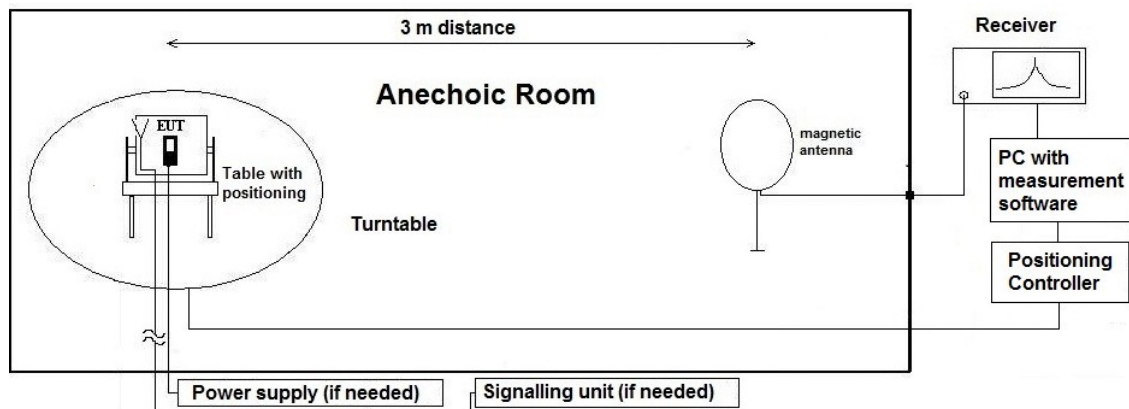
4.2 Radiated field strength emissions below 30 MHz

4.2.1 Description of the general test setup and methodology, see below example:

Evaluating the radiated field emissions are done first by an exploratory emission measurement and a final measurement for most critical frequencies determined.

The loop antenna was placed at 1 m height above ground plane and 3 m measurement distance from set-up for investigations. Because of reduced measurement distance, correction data were applied, as stated in chapter "General Limit - Radiated field strength emissions below 30 MHz". The tests are performed in the semi anechoic room recognized by the regulatory commission.

Schematic:



Testing method:

The measurement is made according to relevant reference clauses:

(See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

Exploratory, preliminary measurements

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 0.8 m height which is placed on the turntable. By rotating the turntable (step 90°, range 0° to 360°) and the EUT itself either on 3-orthogonal axis (portable equipment) or 2-orthogonal axis (defined operational position of EUT), the emission spectrum was recorded.

The loop antenna was moved at least to 2-perpendicular axes (antenna vector in direction of EUT and parallel to EUT) in order to maximize the emissions. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a data reduction table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by maintaining the EUT's worst-case operation mode, cable position, etc.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.

Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself either over 3-orthogonal axis (not defined usage position) or 2-orthogonal axis (defined usage position).

On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out.

Formula:

$$E_C = E_R + AF + C_L + D_F - G_A$$

$$M = L_T - E_C$$

AF = Antenna factor

C_L = Cable loss

D_F = Distance correction factor (if used)

E_C = Electrical field – corrected value

E_R = Receiver reading

G_A = Gain of pre-amplifier (if used)

L_T = Limit

M = Margin

All units are dB-units, positive margin means value is below limit.

4.2.2 Sample calculation

Raw-Value [dBuV/m]	Antenna factor	Distance Correction [dB]	Cable Loss	Preamplifier	Resulting correction value [dB]	Final result [dBuV/m]	Remarks
19.83	18.9	-70.75	0.18	--	-51.67	-31.83	30 to 3 m correction used according ANSI C63.10-2020

Remark: This calculation is based on an example value at 458 kHz

4.2.3 Measurement Location

Test site	120901 - ESS SAC3 - Radiated Emission <1GHz
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4.2.4 Correction factors due to reduced meas. distance ($f < 30$ MHz):

The used correction factors when the measurement distance is reduced compared to regulatory measurement distance, are calculated according Extrapolation formulas valid for EUT's with maximum dimension of $0.625 \times \text{Lambda}$. Formula 2+3+4 as presented in ANSI C63.10, Chapter 6.4.4 are used for the calculations of proper extrapolation factors

Frequency Range	f [kHz/MHz]	Lambda [m]	Far-Field Point [m]	Distance Limit accord. 15.209 [m]	1st Condition (dmeas < Dnear-field)	2nd Condition (Limit distance bigger dnear-field)	Distance Correction accord. Formula
kHz	9	33333.33	5305.17	300	fulfilled	not fulfilled	-80.00
	10	30000.00	4774.65		fulfilled	not fulfilled	-80.00
	20	15000.00	2387.33		fulfilled	not fulfilled	-80.00
	30	10000.00	1591.55		fulfilled	not fulfilled	-80.00
	40	7500.00	1193.66		fulfilled	not fulfilled	-80.00
	50	6000.00	954.93		fulfilled	not fulfilled	-80.00
	60	5000.00	795.78		fulfilled	not fulfilled	-80.00
	70	4285.71	682.09		fulfilled	not fulfilled	-80.00
	80	3750.00	596.83		fulfilled	not fulfilled	-80.00
	90	3333.33	530.52		fulfilled	not fulfilled	-80.00
	100	3000.00	477.47		fulfilled	not fulfilled	-80.00
	125	2400.00	381.97		fulfilled	not fulfilled	-80.00
	200	1500.00	238.73		fulfilled	fulfilled	-78.02
	300	1000.00	159.16		fulfilled	fulfilled	-74.49
	400	750.00	119.37		fulfilled	fulfilled	-72.00
	490	612.24	97.44		fulfilled	fulfilled	-70.23
	500	600.00	95.49	30	fulfilled	not fulfilled	-40.00
	600	500.00	79.58		fulfilled	not fulfilled	-40.00
	700	428.57	68.21		fulfilled	not fulfilled	-40.00
	800	375.00	59.68		fulfilled	not fulfilled	-40.00
	900	333.33	53.05		fulfilled	not fulfilled	-40.00
MHz	1.00	300.00	47.75		fulfilled	not fulfilled	-40.00
	1.59	188.50	30.00		fulfilled	not fulfilled	-40.00
	2.00	150.00	23.87		fulfilled	fulfilled	-38.02
	3.00	100.00	15.92		fulfilled	fulfilled	-34.49
	4.00	75.00	11.94		fulfilled	fulfilled	-32.00
	5.00	60.00	9.55		fulfilled	fulfilled	-30.06
	6.00	50.00	7.96		fulfilled	fulfilled	-28.47
	7.00	42.86	6.82		fulfilled	fulfilled	-27.13
	8.00	37.50	5.97		fulfilled	fulfilled	-25.97
	9.00	33.33	5.31		fulfilled	fulfilled	-24.95
	10.00	30.00	4.77		fulfilled	fulfilled	-24.04
	10.60	28.30	4.50		fulfilled	fulfilled	-23.53
	11.00	27.27	4.34		fulfilled	fulfilled	-23.21
	12.00	25.00	3.98		fulfilled	fulfilled	-22.45
	13.56	22.12	3.52		fulfilled	fulfilled	-21.39
	15.00	20.00	3.18		fulfilled	fulfilled	-20.51
	15.92	18.85	3.00		fulfilled	fulfilled	-20.00
	17.00	17.65	2.81		not fulfilled	fulfilled	-20.00
	18.00	16.67	2.65		not fulfilled	fulfilled	-20.00
	20.00	15.00	2.39		not fulfilled	fulfilled	-20.00
	21.00	14.29	2.27		not fulfilled	fulfilled	-20.00
	23.00	13.04	2.08		not fulfilled	fulfilled	-20.00
	25.00	12.00	1.91		not fulfilled	fulfilled	-20.00
	27.00	11.11	1.77		not fulfilled	fulfilled	-20.00
	29.00	10.34	1.65		not fulfilled	fulfilled	-20.00
	30.00	10.00	1.59		not fulfilled	fulfilled	-20.00

4.2.5 Limit

Radiated emissions limits, (3 meters)					
Frequency Range [MHz]	Limit [$\mu\text{V}/\text{m}$]	Limit [$\text{dB}\mu\text{V}/\text{m}$] *	Distance [m]	Detector	RBW [kHz]
0.009 – 0.09	2400 / f [kHz]	67.6 – 20Log(f) (kHz)	300	Pk & Avg	0.2
0.09 – 0.11	2400 / f [kHz]	67.6 – 20Log(f) (kHz)	300	Quasi peak	0.2
0.11 – 0.15	2400 / f [kHz]	67.6 – 20Log(f) (kHz)	300	Pk & Avg	0.2
0.15 – 0.49	2400 / f [kHz]	67.6 – 20Log(f) (kHz)	300	Pk & Avg	9
0.49 – 1.705	24000 / f [kHz]	87.6 – 20Log(f) (kHz)	30	Quasi peak	9
1.705 - 30	30	29.5	30	Quasi peak	9

*Remark: In Canada same limits apply, just unit reference is different

4.2.6 Result

Diagram	Channel	Mode	Maximum Level [$\text{dB}\mu\text{V}/\text{m}$] Frequency Range 0.009 – 30 MHz	Result
2.01	Low	TX, ch:0; 1Mbps (GFSK)	@23.15 MHz, 20.35	Passed
2.02	Low	TX, ch:0; 1Mbps (GFSK)	@21.65 MHz, 20.44	Passed
2.03	Mid	TX, ch:17; 1Mbps (GFSK)	@25.64 MHz, 20.61	Passed
2.04	Mid	TX, ch:17; 1Mbps (GFSK)	@23.38 MHz, 20.56	Passed
2.05	High	TX, ch:39; 1Mbps (GFSK)	@25.03 MHz, 20.35	Passed
2.06	High	TX, ch:39; 1Mbps (GFSK)	@29.85 MHz, 20.16	Passed

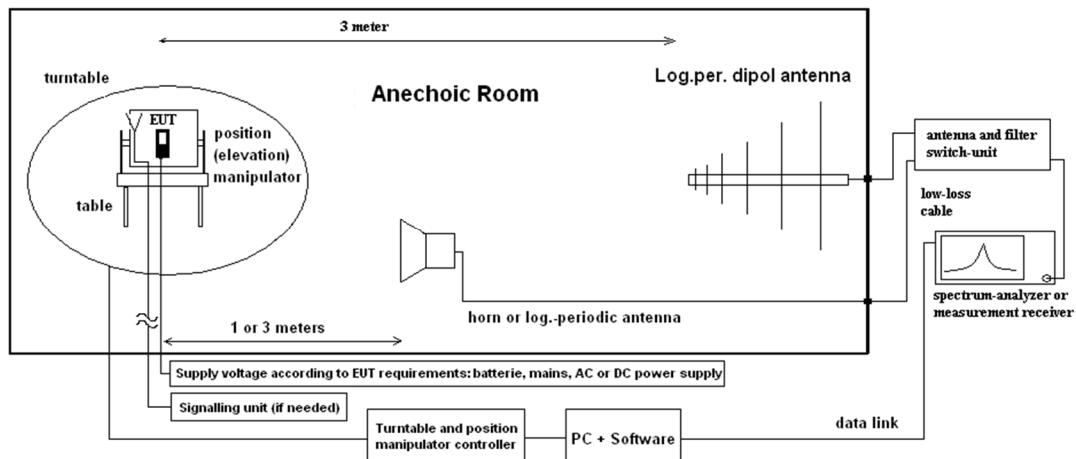
Remark: for more information and graphical plot see annex A1 1-0684-25-02-02_TR1-A202-R01

4.3 Radiated field strength emissions 30 MHz – 1 GHz

4.3.1 Description of the general test setup and methodology, see below example:

Evaluating the emissions have to be done first by an exploratory emissions measurement and a final measurement for most critical frequencies. The tests are performed in a CISPR 16-1-4:2010 compliant semi anechoic room (SAR) and fully anechoic room (FAR) recognized by the regulatory commission. The measurement distance was set to 3 meter for frequencies up to 18 GHz and 2 meter above 18 GHz. A logarithmic periodic antenna is used for the frequency range 30 MHz to 1 GHz. Horn antennas are used for frequency range 1 GHz to 40 GHz. The EUT is aligned within 3 dB beam width of the measurement antenna with three orthogonal axis measurements on the EUT.

Schematic:



Testing method:

The measurement is made according to relevant reference clauses:

(See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

Exploratory, preliminary measurements

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 0.8 m height which is placed on the turntable. By rotating the turntable (range 0° to 360°, step 90°) and the EUT itself either on 3-orthogonal axis (portable equipment) or 2-orthogonal axis (defined operational position of EUT) the emission spectrum and its characteristics was recorded with an EMI-receiver, broadband antenna and software.

Measurement antenna: horizontal and vertical, heights: 1,0 m and 1,82 m as worst-case determined by an exploratory emission measurements. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case of them. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by main-taining the EUT's worst-case operation mode, cable position, etc. either on 10m OATS or 3m semi-anechoic room.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.

Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself either over 3-orthogonal axis (not defined usage position) or 2-orthogonal axis (defined usage position). The measurement antenna height between 1 m and 4 m.

On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out

Formula:

$$E_C = E_R + AF + C_L + D_F - G_A \quad (1)$$

$$M = L_T - E_C \quad (2)$$

AF = Antenna factor

C_L = Cable loss

D_F = Distance correction factor (if used)

E_C = Electrical field – corrected value

E_R = Receiver reading

G_A = Gain of pre-amplifier (if used)

L_T = Limit

M = Margin

All units are dB-units, positive margin means value is below limit.

4.3.2 Sample calculation

Raw-Value [dBuV/m]	Antenna factor	Distance Correction [dB]	Cable Loss	Preamplifier	Resulting correction value [dB]	Final result [dBuV/m]	Remarks
32.7	22.25	--	3.1	--	25.35	58.05	--

Remark: This calculation is based on an example value at 800.4 MHz

4.3.3 Measurement Location

Test site	120901 - ESS SAC3 - Radiated Emission <1GHz
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4.3.4 Limit

Radiated emissions limits, (3 meters)				
Frequency Range [MHz]	Limit [μV/m]	Limit [dBμV/m]	Detector	RBW / VBW [kHz]
30 - 88	100	40.0	Quasi peak	100 / 300
88 - 216	150	43.5	Quasi peak	100 / 300
216 - 960	200	46.0	Quasi peak	100 / 300
960 - 1000	500	54.0	Quasi peak	100 / 300

4.3.5 Result

Diagram	Channel	Mode	Maximum Level [dBμV/m] Frequency Range 30 – 1000 MHz	Result
3.01	Low	TX, ch:0; 1Mbps (GFSK)	No critical peaks found	Passed
3.02	Low	TX, ch:0; 1Mbps (GFSK)	No critical peaks found	Passed
3.03	Mid	TX, ch:17; 1Mbps (GFSK)	No critical peaks found	Passed
3.04	Mid	TX, ch:17; 1Mbps (GFSK)	No critical peaks found	Passed
3.05	High	TX, ch:39; 1Mbps (GFSK)	No critical peaks found	Passed
3.06	High	TX, ch:39; 1Mbps (GFSK)	No critical peaks found	Passed

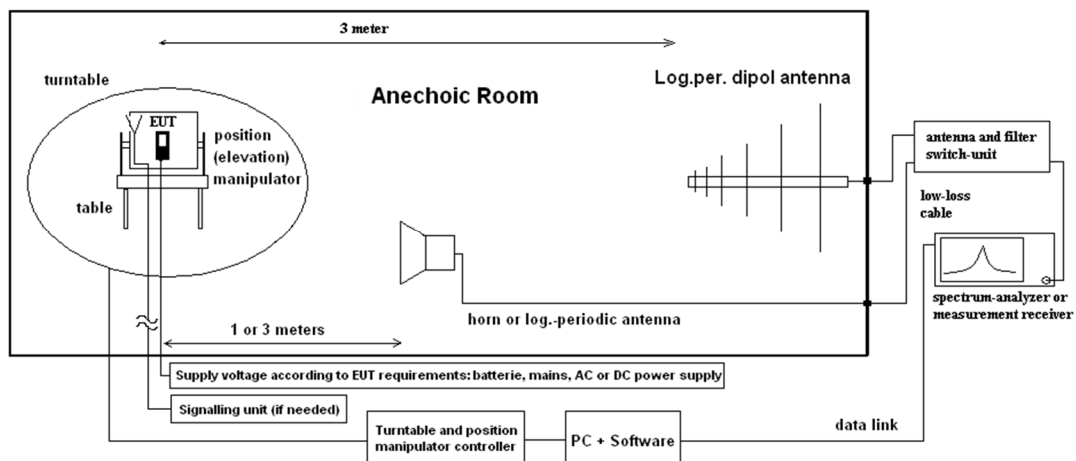
Remark: for more information and graphical plot see annex A1 1-0684-25-02-02_TR1-A202-R01

4.4 Radiated field strength emissions above 1 GHz

4.4.1 Description of the general test setup and methodology, see below example:

Evaluating the emissions have to be done first by an exploratory emissions measurement and a final measurement for most critical frequencies. The tests are performed in a CISPR 18-1-4:2010 compliant fully anechoic room (FAR) recognized by the regulatory commission. The measurement distance was set to 3 meter for frequencies up to 18 GHz and 2 meter above 18 GHz. A logarithmic periodic antenna is used for the frequency range 30 MHz to 1 GHz. Horn antennas are used for frequency range 1 GHz to 40 GHz. The EUT is aligned within 3 dB beam width of the measurement antenna with three orthogonal axis measurements on the EUT.

Schematic:



Testing method:

The measurement is made according to relevant reference clauses:

(See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

Exploratory, preliminary measurements

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 1.55 m height which is placed on the turntable. By rotating the turntable (range 0° to 360°, step 15°) and the EUT itself either on 3-orthogonal axis (portable equipment) or 2-orthogonal axis (defined operational position of EUT) the emission spectrum and its characteristics was recorded with an EMI-receiver, broadband antenna and software.

The measurements are performed in horizontal and vertical polarization of the measurement antennas. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case of them. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by maintaining the EUT's worst-case operation mode, cable position, etc.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.

Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself over 3-orthogonal axis and the height for EUT with large dimensions or three axis scan for portable/small equipment.

On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out.

Formula:

$$E_C = E_R + A_F + C_L + D_F - G_A \quad (1)$$

$$M = L_T - E_C \quad (2)$$

E_C = Electrical field – corrected value

E_R = Receiver reading

M = Margin

L_T = Limit

A_F = Antenna factor

C_L = Cable loss

D_F = Distance correction factor (if used)

G_A = Gain of pre-amplifier (if used)

All units are dB-units, positive margin means value is below limit.

4.4.2 Sample calculation

Raw-Value [dBuV/m]	Antenna factor	Distance Correction [dB]	Cable Loss + Preamplifier	Resulting correction value [dB]	Final result [dBuV/m]	Remarks
29.37	41.20	--	24.28	16.92	46.3	CableLoss and PreAmp data in one data correction file

Remark: This calculation is based on an example value at 10 GHz

4.4.3 Measurement Location

Test site 1 – 18 GHz	120904 - FAC1 - Radiated Emissions
Test site 18 – 26.5 GHz	120907 - FAC2 - Radiated Emissions

4.4.4 Limit

Radiated emissions limits, (3 meters)				
Frequency Range [MHz]	Limit [μV/m]	Limit [dBμV/m]	Detector	RBW / VBW [kHz]
Above 1000	500	54	Average	1000 / 3000
Above 1000	5000	74	Peak	1000 / 3000

4.4.5 Result

Diagram	Channel	Mode	Maximum Level [dBμV/m] Frequency Range 1 – 18 GHz	Result
4.01	Low	TX, ch:0; 1Mbps (GFSK)	@4.804 GHz, 48.47	Passed
4.02	Mid	TX, ch:17; 1Mbps (GFSK)	@4.879 GHz, 45.16	Passed
4.03	High	TX, ch:39; 1Mbps (GFSK)	@4.960 GHz, 44.37	Passed

Remark: for more information and graphical plot see annex A1 **1-0684-25-02-02_TR1-A202-R01**

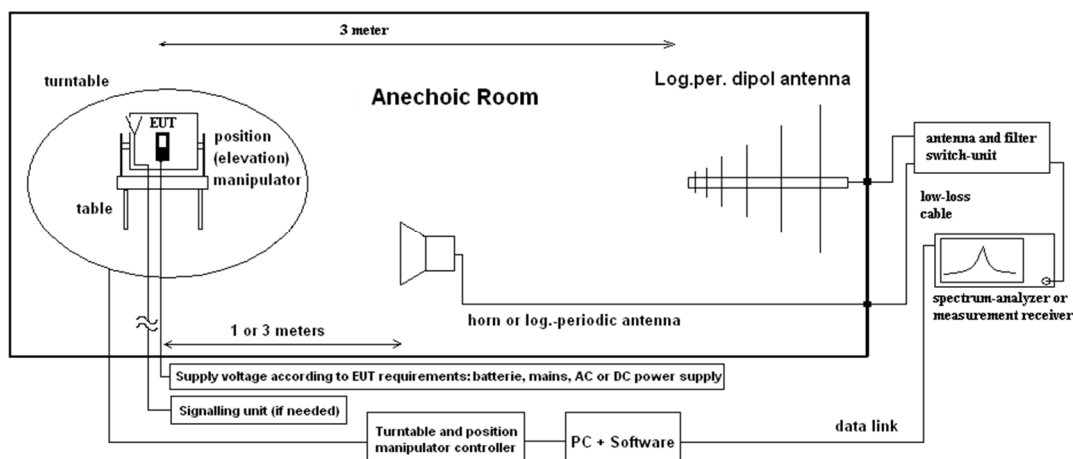
Diagram	Channel	Mode	Maximum Level [dBμV/m] Frequency Range 18 – 26.5 GHz	Result
4.04a	Low	BLE-Mode / Modulation Type: GFSK / Data rate: 1Mbps	@23.760 GHz, 44.25	Passed
4.04b	Low	BLE-Mode / Modulation Type: GFSK / Data rate: 1Mbps	@23.631 GHz, 44.37	Passed
4.05a	Mid	BLE-Mode / Modulation Type: GFSK / Data rate: 1Mbps	@23.645 GHz, 44.27	Passed
4.05b	Mid	BLE-Mode / Modulation Type: GFSK / Data rate: 1Mbps	@20.961 GHz, 43.96	Passed
4.06a	High	BLE-Mode / Modulation Type: GFSK / Data rate: 1Mbps	@23.713 GHz, 44.10	Passed
4.06b	High	BLE-Mode / Modulation Type: GFSK / Data rate: 1Mbps	@23.726 GHz, 44.06	Passed

Remark: for more information and graphical plot see annex A1 **1-0684-25-02-02_TR1-A202-R01**

4.5 Radiated Band-Edge emissions

4.5.1 Description of the general test setup and methodology, see below example:

Schematic:



Testing method:

The measurement is made according to relevant reference clauses:

(See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

For uncritical results where a measurement resolution bandwidth of 1MHz can clearly show the compliance without influencing the results, a field strength measurement was performed to show compliance.

For critical results a Marker-Delta marker method was used for showing compliance to restricted bands.

The method consists of three independent steps:

1. Step: Prior to the measurement the fundamental radiated In-Band field strength was performed. The determined value is used as reference value.
2. Step: Second step consist of finding the relative attenuation between the fundamental emission and the maximum local out-of-band emission (within 2 MHz range around the band edge either on the band-edge directly or some modulation product if the level is greater than that on the band-edge) when measured with lower resolution bandwidth.
3. Step: The delta value recorded in step 2 will be subtracted from value recorded in step 1, thus giving the required field strength at the band-edge. This value must fulfil the requirements for radiated spurious emissions in restricted bands in FCC §15.205 with the general limits of FCC §15.209

The EUT was instructed to send with maximum power (if adjustable) according to applicants instructions.

4.5.2 Measurement Location

Test site	120904 - FAC1 - Radiated Emissions
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4.5.3 Limit

Frequency Range [MHz]	Pk Limit [dBc]	Avg Limit [dBc]	Avg Limit [dBμV/m]	Pk Limit [dBμV/m]	Detector	RBW / VBW [kHz]
Below 2390	-	-	54	74	Average / Peak	1000 / 3000
Above 2483.5	-	-	54	74	Average / Peak	1000 / 3000
2390 - 2400	-20	-	-	-	Peak	100 / 300
2390 - 2400	-	-30	-	-	Average	100 / 300

4.5.4 Result

Non-restricted bands near-by

Diagram	Channel	Mode	Peak [dBc]	Average [dBc]	Result
9.01	0	TX, ch:0; 1Mbps (GFSK)	23.62	33.62	Passed

Remark: for more information and graphical plot see annex A1 **1-0684-25-02-02_TR1-A202-R01**

Restricted bands near-by

Diagram	Channel	Mode	Peak [dBμV/m]	Average [dBμV/m]	Result
9.01	0	TX, ch:0; 1Mbps (GFSK)	58.28	46.93	Passed
9.02	39	TX, ch:39; 1Mbps (GFSK)	59.80	48.10	Passed

Remark: for more information and graphical plot see annex A1 **1-0684-25-02-02_TR1-A202-R01**

4.6 Equipment lists

ID	Description	Manufacturer	SerNo	CheckType	Last Check	Interval	Next Check
	120901 - ESS SAC3 - Radiated Emission <1GHz			chk	chk: 2025-Mar-29	chk: 12M	chk: 2026-Mar-29
20442	Semi Anechoic Chamber SAC3	ETS-Lindgren GmbH / Taufkirchen	without	chk	chk: 2025-Sep-05	chk: 12M	chk: 2026-Sep-05
20482	Filter Matrix SAC3	cetekom advanced GmbH / Essen	without	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20574	Biconilog Hybrid Antenna BTA-L	Frankonia GmbH / Heideck	980026L	cal	cal: 2025-Jun-06	cal: 36M	cal: 2028-Jun-06
20620	EMI Test Receiver ESU26	Rohde & Schwarz Messgerätebau GmbH / Memmingen	100362	cal	cal: 2025-May-06	cal: 12M	cal: 2026-May-06
20885	Power Supply EA3632A	Agilent Technologies Deutschland GmbH / Böblingen	75305850	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20979	Loop Antenna HFH2-Z2	Rohde & Schwarz Messgerätebau GmbH / Memmingen	872096/61	cal	cal: 2024-Sep-16	cal: 36M	cal: 2027-Sep-16
	120904 - FAC1 - Radiated Emissions			chk	chk: 2025-Mar-25	chk: 12M	chk: 2026-Mar-25
20020	Double-Ridged Waveguide Horn Antenna 3115 (Subst 1)	EMCO Elektronik GmbH / Gilching	9107-3699	calchk	cal: 2024-Sep-11 chk: 2013-Apr-20	cal: 36M chk: 12M	cal: 2027-Sep-11
20066	Notch Filter WRCT 1900/2200-5/40-10EEK	Wainwright Instruments GmbH / Andechs	5	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20121	Notch Filter WRCB 1879,5/1880,5EE	Wainwright Instruments GmbH / Andechs	15	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20122	Notch Filter WRCB 1747/1748	Wainwright Instruments GmbH / Andechs	12	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20254	High Pass Filter SHC 2600/12750-1.5KK	Trilithic	23042	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20287	Pre-Amplifier 25MHz - 4GHz AMF-2D-100M4G-35-10P	Miteq Inc.	379418	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20290	Notch Filter WRCA 901,9/903,15S	Wainwright Instruments GmbH / Andechs	3RR	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20291	High Pass Filter WHJ 2200-4EE	Wainwright Instruments GmbH / Andechs	14	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20338	Pre-Amplifier JS4-00102600-38-5P	Miteq Inc.	838697	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20341	Digital Multimeter Fluke 112	Fluke Deutschland GmbH / Glotttetal	81650455	cal	cal: 2024-May-13	cal: 24M	cal: 2026-May-13
20448	Notch Filter WRCT 1850.0/2170.0-5/40-10SSK	Wainwright Instruments GmbH / Andechs	5	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20449	Notch Filter WRCT 824.0/894.0-5/40-8SSK	Wainwright Instruments GmbH / Andechs	1	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20484	Pre-Amplifier 2,5GHz - 18GHz AMF-5D-02501800-25-10P	Miteq Inc.	1244554	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20489	EMI Test Receiver ESU40	Rohde & Schwarz Messgerätebau GmbH / Memmingen	100030	cal	cal: 2025-May-08	cal: 12M	cal: 2026-May-08
20512	Notch Filter WRCA 800/960-02/40-6EEK (GSM 850)	Wainwright Instruments GmbH / Andechs	24	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20549	Log. Per. Antenna HL025	Rohde & Schwarz Messgerätebau GmbH / Memmingen	1000060	calchk	cal: 2024-Oct-08	cal: 36M chk: 12M	cal: 2027-Oct-08
20558	Fully Anechoic Chamber 1	ETS-Lindgren GmbH / Taufkirchen	without	chk	chk: 2025-Mar-28	chk: 24M	chk: 2027-Mar-28
20608	Ultrabroadband-Antenna HL562	Rohde & Schwarz Messgerätebau GmbH / Memmingen	830547/009	cal	cal: 2023-Jul-04	cal: 36M	cal: 2026-Jul-04
20611	Power Supply E3632A	Agilent Technologies Deutschland GmbH	KR 75305854	cpu			
20690	Spectrum Analyzer FSU26	Rohde & Schwarz Messgerätebau GmbH / Memmingen	100302/026	cal	cal: 2025-May-07	cal: 24M	cal: 2027-May-07
20720	Measurement Software EMC32 [FAC]	Rohde & Schwarz Messgerätebau GmbH	V10.xx	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20868	High Pass Filter AFH-07000	AtlanTecRF / Braintree, Essex	16071300004	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20883	Open Switch and control Platform OSP-B200S2 Satellite	Rohde & Schwarz Messgerätebau GmbH / Memmingen	101432	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
20884	Open Switch and control Platform OSP320	Rohde & Schwarz Messgerätebau GmbH / Memmingen	101391	chk	chk: 2025-Mar-21	chk: 12M	chk: 2026-Mar-21
	120907 - FAC2 - Radiated Emissions			chk	chk: 2024-Oct-31	chk: 24M	chk: 2026-Oct-31
20133	Double-Ridged Waveguide Horn Antenna 3115 (Meas 1)	EMCO Elektronik GmbH / Gilching	9012-3629	cal	cal: 2023-May-22	cal: 36M	cal: 2026-May-22
20302	Horn Antenna BBHA9170 (Meas 1)	Schwarzbeck Mess-Elektronik OHG / Schönaun	155	cpu	chk: 2020-Apr-15	chk: 12M	
20412	Fully Anechoic Chamber 2	ETS-Lindgren GmbH / Taufkirchen	without	chk	chk: 2024-Mar-15	chk: 12M	chk: 2025-Mar-15
20811	Horn Antenna ASY-SGH-124-SMA	Antenna Systems Solutions S.L / Santander	29F14182337	cal	cal: 2024-Oct-08	cal: 36M	cal: 2027-Oct-08
20816	SGH Antenna SGH-26-WR10	Anteral S.L. / Pamplona, Navarra	1144	cpu	chk: 2024-Mar-22		
20817	Waveguide Rectangular Horn Antenna SAR-2309-22-S2	ERAVANT / Torrance	13254-01	chk	chk: 2024-Oct-16	chk: 24M	chk: 2026-Oct-16
20832	Horn Antenna WR90, 90-HA20	TACTRON ELEKTRONIK GmbH & Co. KG / Martinsried	J202064946	chk	chk: 2024-Nov-16	chk: 12M	chk: 2025-Nov-16
20836	1-18 GHz Amplifier	Wright Technologies, Inc. / Roseville	0001	chk	chk: 2024-Oct-18	chk: 24M	chk: 2026-Oct-18
20877	JS42-08001800-16-8P Verstärker	Miteq Inc.	2079991 / 2079992	chk	chk: 2024-Oct-18	chk: 24M	chk: 2026-Oct-18
20879	JS44-18004000-40-8P Verstärker	Miteq Inc.	1750117	chk	chk: 2024-Oct-18	chk: 24M	chk: 2026-Oct-18
20907	Waveguide WR-15 attenuator STA-30-15-M2	ERAVANT / Torrance	13256-01	cpu	chk: 2024-Mar-19		
20908	Waveguide WR 10 attenuator STA-30-10-M2	ERAVANT / Torrance	13256-01	cpu	chk: 2024-Mar-22		
20909	Waveguide Horn Antenna PE9881-24	Pasternack Enterprises, Inc. / Irvine	37/2016	cpu			

ID	Description	Manufacturer	SerNo	CheckType	Last Check	Interval	Next Check
20910	Frequency Multiplier 936VF-10/385	MI-Wave, Millimeter Wave Products Inc. / St. Petersburg	142	cpu	chk: 2024-Mar-19		
20911	Frequency Multiplier 938WF-10/387	MI-Wave, Millimeter Wave Products Inc. / St. Petersburg	141	cpu	chk: 2024-Mar-19		
20912	Low noise Amplifier Module 0.5-4GHz	RF-Lambda Europe GmbH / Rüsselsheim	19041200083	chk	chk: 2024-Oct-18	chk: 12M	chk: 2025-Oct-18
20913	Phase Amplitude Stable Cable Assembly DC-40GHz	RF-Lambda Europe GmbH	AC19040001	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -
20972	Signal- and Spectrum Analyzer FSW50	Rohde & Schwarz Messgerätebau GmbH / Memmingen	101929	cal	cal: 2025-Mar-19	cal: 12M	cal: 2026-Mar-19
25458	DRG Horn Antenna 19 dB	A.H. Systems, Inc. / Chatsworth	183	cal	cal: 2025-Jun-03	cal: 36M	cal: 2028-Jun-03
	120910 - Radio Laboratory 1 (TS 8997)			chk	chk: 2025-Jul-14	chk: 12M	chk: 2026-Jul-14
20559	Vector Signal Generator SMU200A	Rohde & Schwarz Messgerätebau GmbH / Memmingen	103736	cal	cal: 2025-May-07	cal: 24M	cal: 2027-May-07
20691	Open Switch and control Platform OSP157W 8 Port Plus	Rohde & Schwarz Messgerätebau GmbH / Memmingen	100950	cal	cal: 2023-Jun-30	cal: 36M	cal: 2026-Jun-30
20866	Signal Analyzer FSV3030	Rohde & Schwarz Messgerätebau GmbH / Memmingen	101247	cal	cal: 2025-Jun-10	cal: 12M	cal: 2026-Jun-10
20904	Climatic Chamber Climevent C/1000/70a/5	Weiss Umwelttechnik GmbH / Reiskirchen-Lindenstruth	5822623240010	cal	cal: 2025-Jan-23	cal: 24M	cal: 2027-Jan-23
20927	Signal Generator SMF 100A	Rohde & Schwarz Messgerätebau GmbH / Memmingen	102109	cal	cal: 2025-May-08	cal: 36M	cal: 2028-May-08
20978	HMP2020 2-CH power Supply 188W	Rohde & Schwarz Messgerätebau GmbH / Memmingen	121649	cal	cal: 2024-Aug-06	cal: 24M	cal: 2026-Aug-06
20980	USB Wideband power Sensor U2021XA	Keysight Technologies Deutschland GmbH / Böblingen	MY64330007	cal	cal: 2025-Jul-02	cal: 12M	cal: 2026-Jul-02
80682	Switch Matrix USM	cetekom advanced GmbH / Saarbrücken	D001	cnn	cal: - chk: -	cal: - chk: -	cal: - chk: -

Tools used in 'P1M8'

4.6.1 Legend

Note / remarks	Interval of calibration & Verification
12M	12 months
24M	24 months
36M	36 months
10Y	10 Years

Abbreviation Check Type	Description
cnn	Calibration and verification not necessary
cal	Calibration
calchk	Calibration plus intermediate Verification
chk	Verification
cpu	Verification before usage

5 Results from external laboratory

None

-

6 Opinions and interpretations

None

-

7 List of abbreviations

None

-

8 Measurement Uncertainty valid for conducted/radiated measurements

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 its statistical distribution calculated.

Issue No.	Measurement type	Reference	Frequency range of measurement		Calculated Uncertainty based on confidence level of 95.54%	Remarks
			Start [MHz]	Stop [MHz]		
1	Magnetic Field Strength	EN, FCC, JP, IC	0.009	30	4.86	Magnetic loop antenna, Pre-Amp on
2	RF-Output Power (EIRP) Unwanted emissions (EIRP) [dB]	EN, FCC, JP, IC	30	100	4.57	without Pre-Amp
			30	100	4.91	with Pre-Amp
			100	1000	4.02	without Pre-Amp
			100	1000	4.26	with Pre-Amp
			1000	18000	4.36	without Pre-Amp
			1000	18000	5.23	with Pre-Amp
			18000	33000	4.92	Schwarzbeck BBHA9170 (#20302) Antenna set-up non-waveguide antenna)
			33000	50000	4.17	Set-up for Q-Band (WR-22), non-wave guide antenna
			40000	60000	4.69	Set-up U-Band (WR-19), non-waveguide antenna
			50000	75000	4.06	External Mixer set-up V-Band (WR-15)
			75000	110000	4.17	External Mixer set-up W-Band (WR-6)
			90000	140000	5.49	External Mixer set-up F-Band (WR-8)
			140000	225000	6.22	External Mixer set-up G-Band (WR-5)
			225000	325000	7.04	External Mixer set-up (WR-3)
			325000	500000	8.84	External Mixer set-up (WR-2.2)
3	Radiated Blocking [dB]	EN	1000	18000	2.85	Typical set-up with microwave generator and antenna, value for 7 GHz calculated
			18000	33000	4.66	Typical set-up with microwave generator and antenna
			33000	50000	3.48	WR-22 set-up
			50000	75000	3.73	WR-15 set-up
			75000	110000	4.26	WR-6 set-up
4	Frequency Error / UWB+FMCW [kHz]	EN, FCC, JP, ISED	40000	77000	276.19	calculated for 77 GHz (FMCW) carrier
	Frequency Error / NFC [Hz]	EN, FCC, JP, ISED	6000	7000	33.92	calculated for 6.5 GHz UWB Ch.5
			11.00	14.00	20.76	calculated for 13.56 MHz NFC carrier
5	TS 8997 Conducted Parameters	FCC15/18 / ISED	30	6000	1.11	1. Power measurement with Fast-sampling-detector
			30	6000	1.20	2. Power measurement with Spectrum-Analyzer
			30	6000	1.20	3. Power Spectrum-Density measurement
			30	7500	1.20	4. Conducted Spurious emissions
			0.009	30	2.56	5. Conducted Spurious emissions
			2.4	2.48	1.95 ppm	6a. Bandwidth / 2-Marker Method for 2.4 GHz ISM
			5.18	5.825	7.180 ppm	6b. Bandwidth / 2-Marker Method for 5 GHz WLAN
			5.18	5.825	1.099 ppm	7. Frequency (Marker method) for 5 GHz WLAN
			30	6000	0.11561 µs	8. Medium-Utilization factor / Timing
			30	6000	1.85	9a. Blocking-Level of companion device
			30	6000	1.62	9b. Blocking Generator level
6	Conducted Emissions	EN, FCC	0.009	30	3.57	general EMI-measurements on AC/DC ports

9 Versions of test reports (change history)

Version	Applied changes	Date of release
R01	Initial release	2025-Nov-05
R02	@4.1.4 Output Power results from module report added	2026-Jan-28
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End Of Test Report