

Report on the FCC and IC Testing of the AGRIDENT GmbH

Mobile RFID Reader for Electronic Animal Identification
Model: AWR300NFC

In accordance with FCC 47 CFR Part 15 C and
ISED RSS-210 and ISED RSS-Gen

Prepared for: Agrident GmbH
Dahlkampsanger 2
30890 Barsinghausen, Germany



Product Service

Add value.
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FCC ID: QG2AMR1
IC: 6252A-AMR1

Date: 2026-01-14

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Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

Engineering Statement:

This measurement shown in this report were made in accordance with the procedures described on test pages.

All reported testing was carried out on a sample equipment to demonstrate limited compliance with with FCC 47 CFR Part 15 C and ISED RSS-210 and RSS-GEN.

The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Martin Steindl	2026-01-14	 SIGN-ID 1101284

Laboratory Accreditation

DAkkS Reg. No. D-PL-11321-11-02

DAkkS Reg. No. D-PL-11321-11-03

Laboratory recognition

Registration No. BNetzA-CAB-16/21-15

Industry Canada test site registration

3050A-2

Executive Statement:

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15 C:2024 and ISED RSS-210 : 2024 and ISED RSS-Gen : 2018 + Amd.1 : 2019 + Amd.2 : 2021



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1 Report Summary

1.1 Modification Report

Alterations and additions of this report will be issued to the holders of each copy in the form of a complete document. Current version replaces all previous versions.

Revision	Description of changes	Date of Issue
0	First Issue	2025-12-17
1	Correction on table page 12	2025-12-19
2	Retest of bandwidth measurements Correction on correction factor of table on page 13 Updated reference to ANSI C63.10	2026-01-14

Table 1: Report of Modifications

1.2 Introduction

Applicant	Agrident GmbH Dahlkampsanger 2 30890 Barsinghausen, Germany
Manufacturer	Agrident GmbH
Model Number(s)	AWR300NFC
Serial Number(s)	1308000942
Hardware Version(s)	--
Software Version(s)	1.49.16
Number of Samples Tested	1
Test Specification(s) / Issue / Date	FCC 47 CFR Part 15 C : 2024 and ISED RSS-210, Issue 11 : 2024 ISED RSS-Gen, Issue 5 : 2018 + Amd. 1 : 2019, Amd. 2 : 2021
Test Plan/Issue/Date	N/A
Order Number	--
Date	
Date of Receipt of EUT	2025-08-25
Start of Test	2025-09-17
Finish of Test	2026-01-12
Name of Engineer(s)	M. Steindl
Related Document(s)	ANSI C63.10:2020



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15 C and ISED RSS-210 and RSS-Gen is shown below.

Section	Specification Clause	Test Description	Result
2.1	15.215(c)	Bandwidth of Signal	Pass
2.2	15.209	Radiated Emissions	Pass

Table 2: Results according to FCC 47 CFR Part 15 C

Section	Specification Clause	Test Description	Result
2.2	7.3	Radiated Emissions	Pass

Table 3: Results according to ISED RSS-210

Section	Specification Clause	Test Description	Result
2.1	6.7	Bandwidth of Signal	Pass
2.3	8.11	Temperature Stability	Pass
2.2	8.9, 8.10	Radiated Emissions	Pass

Table 4: Results according to ISED RSS-Gen

For AC power Line Conducted Emissions acc. 47 CFR, § 15.207, RSS-210, section 7.3, and RSS-Gen, section 8.8, respectively, please refer to test report TR-713342590-05.



1.4 Product Information

1.4.1 Technical Description

The EUT is a mobile NFC / RFID reader for electronic animal identification and Bluetooth and wireless LAN modules for data transmission.

This test report covers the 134.2 kHz RFID interface, only.

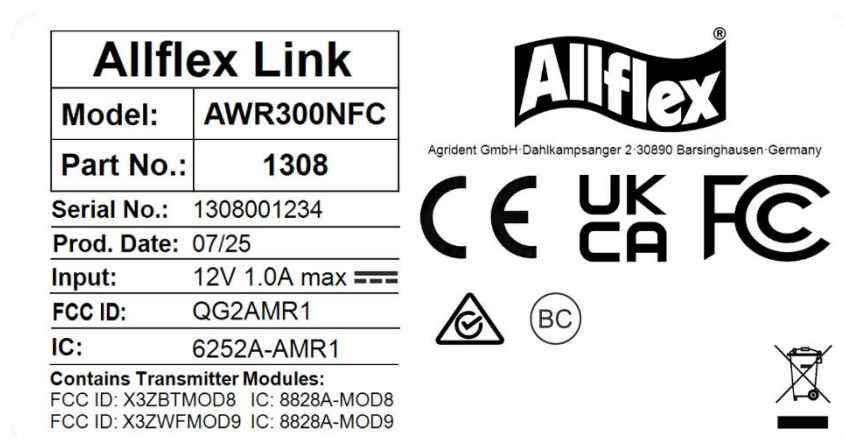
Nominal carrier frequency: 134.2 kHz

Number of frequency channels:

Emission designator: 10K0A1D

Supply Voltage: 120 V

Supply Frequency: 60 Hz



EUT Marking Plate



1.5 Test Configuration

The EUT was configured as standalone device.

1.6 Modes of Operation

The EUT was equipped with software, allowing continuous reading of a EID tag.

1.7 EUT Modifications Record

The table below details modifications made to the EUT during the test programme.
The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
0	As supplied by the customer	Not Applicable	Not Applicable

Table 5

1.8 Test Location

TÜV SÜD Product Service conducted the following tests at our Straubing test laboratory:

Test Name	Name of Engineer(s)
Bandwidth of Signal	M. Steindl
Radiated Emissions	M. Steindl
Frequency Tolerance	M. Steindl

Office Address:

Äußere Frühlingstraße 45
94315 Straubing
Germany



2 Test Details

2.1 Bandwidth of Signal

2.1.1 Specification Reference

FCC 47 CFR Part 15 C, Clause 15.215(c)
ISED RSS-Gen, Clause 6.7

2.1.2 Equipment under Test and Modification State

AWR300NFC; S/N 1308000942; Modification state 0

2.1.3 Date of Test

2026-01-12

2.1.4 Environmental Conditions

Ambient Temperature	21 °C
Relative Humidity	26 %

2.1.5 Specification Limits

No limitation – Bandwidth noted

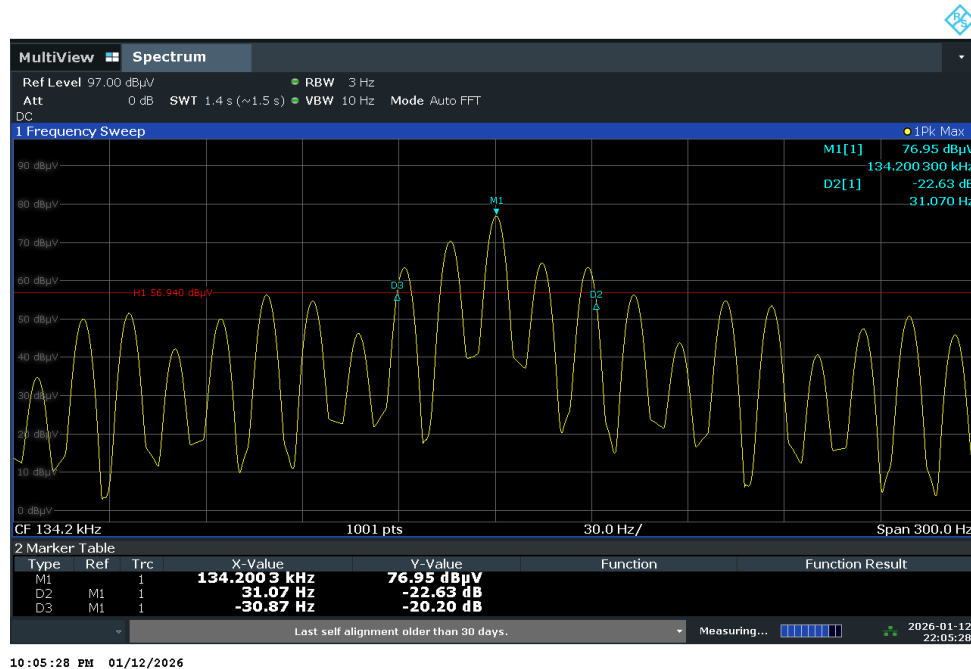
2.1.6 Test Method

The test was performed according to ANSI C63.10, clauses 6.9
See section 2.2 of this test report for details.



Product Service

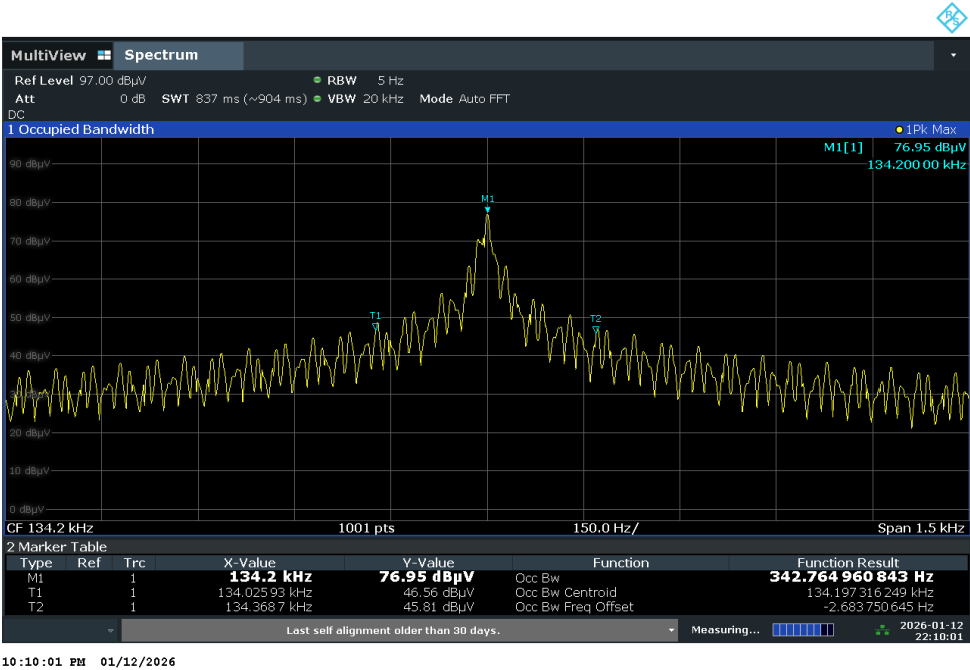
2.1.7 Test Results



10:05:28 PM 01/12/2026

Center frequency	20 dB Bandwidth
134.2 kHz	61.94 Hz

Table 6: 20 dB bandwidth



Centre Frequency	99% Bandwidth
134.2 kHz	342.764 Hz

Table 7: 99% bandwidth

2.1.8 Test Location and Test Equipment

The test was carried out in semi anechoic room, cabin No. 3

Instrument	Manufacturer	Type No	TE No	Calibra- tion Pe- riod (months)	Calibration Due
Semi anechoic room	Frankonia	Cabin No. 3	56331	---	---
Loop antenna	Schwarzbeck	FMZB 1519 C	72526	36	2028-01-31

Table 8



Product Service

2.2 Radiated Emissions

2.2.1 Specification Reference

FCC 47 CFR Part 15 C, Clauses 15.205, and 15.209
ISED RSS-210, Clause 7.7
ISED RSS-Gen, Clauses 8.9 and 8.10

2.2.2 Equipment under Test and Modification State

AWR300NFC; S/N 1308000942; Modification state 0

2.2.3 Date of Test

2025-10-07 and 2025-10-21

2.2.4 Environmental Conditions

Ambient Temperature	22 °C
Relative Humidity	48 %



2.2.5 Specification Limits

General radiated emission limits:					
Frequency Range (MHz)	Test distance (m)	Field strength		Field strength	
		($\mu\text{A/m}$)	($\text{dB}\mu\text{A/m}$)	($\mu\text{V/m}$)	($\text{dB}\mu\text{V/m}$)
0.009 – 0.49	300	$6.37 / f$	$20\lg(6.37 / f)$	$2400 / f$	$20\lg(2400 / f)$
0.49 – 1.705	30	$63.7 / f$	$20\lg(63.7 / f)$	$24000 / f$	$20\lg(24000 / f)$
1.705 - 30	30	0.08	$20\lg(0.08 / f)$	30	$20\lg(30 / f)$
30 – 88	3	---	---	100	40
88 – 216	3	--	---	150	43.5
126 – 960	3	--	---	200	46
above 960	3	--	---	500	54
Note 1: f in kHz					

Table 9 General radiated emission limits

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9 – 90 kHz, 110 – 490 kHz and above 1000 MHz. Radiated emission limits in these bands are based on measurements employing an average detector.

At frequencies at or above 30 MHz, measurements may be performed at distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempts should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

2.2.6 Test Method

The test was performed according to ANSI C63.10, sections 6.4 and 6.5

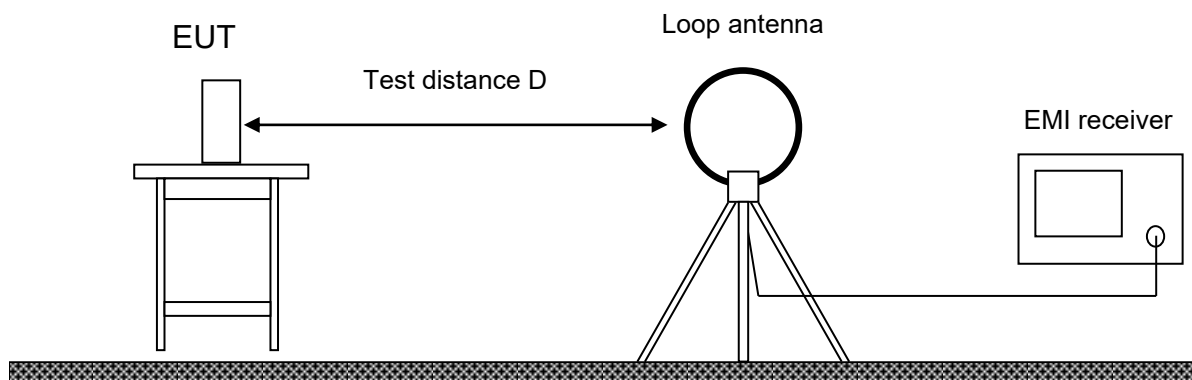
Prescans are performed in six positions of the EUT to get the full spectrum of emission caused by the EUT with the measuring antenna raised and lowered from 1 m to 4 m with vertical and horizontal polarisation to find the combination of table position, antenna height and antenna polarisation for the maximum emission levels.

Data reduction is applied to these results to select those levels having less margin than 10 dB or exceeding the limit using subranges and limited number of maximums.

Further maximisation for adjusting the maximum position is following.

Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

2.2.6.1 Frequency range 9 kHz – 30 MHz

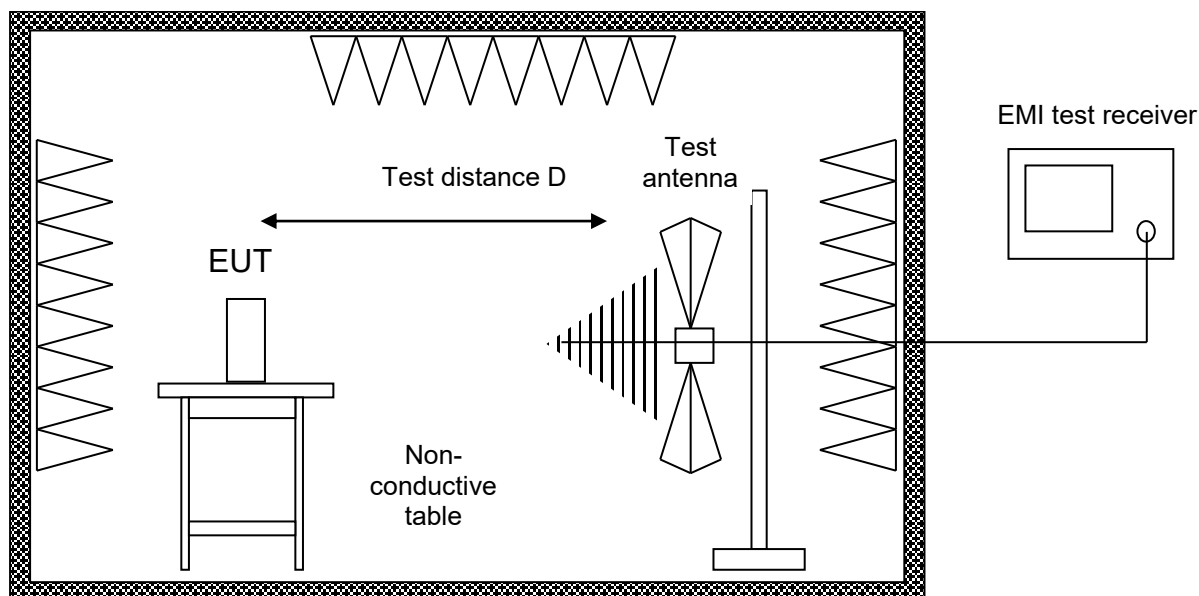


The EUT was placed on a non-conductive table, 0.8 m above the ground.

Radiated emissions in the frequency 9 kHz – 30 MHz is measured within a semi-anechoic room with an active loop antenna with the measurement detector set to peak. In addition in the frequency range 9 kHz to 490 kHz also an average detector was used. The measurement bandwidth of the receiver was set to 300 Hz in the frequency range 9 kHz to 150 kHz and 10 kHz in the frequency range 150 kHz to 30 MHz. Prescans were performed in six positions of the EUT.

For final measurements the detector was set to CISPR quasi-peak and in addition to CISPR average in the frequency range 9 kHz to 490 kHz with a resolution bandwidth 200 Hz in the frequency range 9 kHz to 150 kHz and 9 kHz in the frequency range 150 kHz to 30 MHz. Final tests were performed immediately after a final frequency and zoom (for drifting disturbances) and maximum adjustment.

2.2.6.2 Frequency range 30 MHz – 1 GHz



Alternate test site (semi anechoic room)

The EUT was placed on a non-conductive table, 0.8 m above the ground plane

Radiated emissions in the frequency range 30 MHz – 1 GHz is measured within a semi-anechoic room with groundplane complying with the NSA requirements of ANSI C63.4. for alternative test sites. A linear polarised logarithmic periodic antenna combined with a 4:1 broadband dipole ("Trilog broadband antenna") is used.

For prescan tests the test receiver is set to peak-detector with a bandwidth of 120 kHz.

With the measurement bandwidth of the test receiver set to 120 kHz CISPR quasi-peak detector is selected for final measurements following immediately after a final frequency zoom (for drifting disturbances) and maximum adjustment.



2.2.7 Test Results

Frequency range	Limit applied	Test distance
9 kHz – 30 MHz	15.209	10 m
30 MHz – 1 GHz	15.209	3 m

Table 10

Sample calculation:

Final Value (dB μ V/m) = Reading Value (dB μ V) + (Cable attenuation (dB)
+ Antenna Transducer (dB(1/m)))

Additional correction factor for plots below:

Additional correction of level in the frequency range 9 – 490 kHz (300 m to 10 m): -59.1 dB

Additional correction of level in the frequency range 490 kHz – 30 MHz (30 m to 10 m): -19.1 dB

Note:

Additional correction up to 30 MHz is based on 40 dB/dec. correction factor for measurements on different distance as defined in the limit definition for the frequency range below 30 MHz.

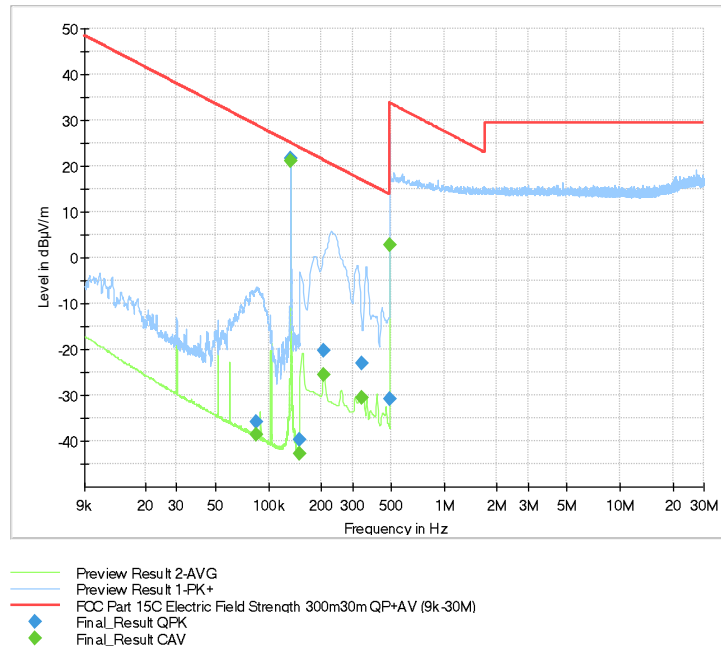
Extrapolation factor: -40 dB/decade

Frequency	Detector	Distance		Reading	Correction	Extrapolation	Final	Limit	Margin
		d1	d	Value	Factor	Factor	Value		
(MHz)		(m)	(m)	(dB μ V)	(dB/m)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
0.08503	Peak	10	300	11.22	20.18	-59.08	-27.68	49.01	76.69
0.08503	CAverage	10	300	0.41	20.18	-59.08	-38.49	29.01	67.50
0.13416	Peak	10	300	60.61	20.18	-59.08	21.71	45.05	23.34
0.13416	CAverage	10	300	59.88	20.18	-59.08	20.98	25.05	4.07
0.15000	Peak	10	300	9.00	20.18	-59.08	-29.90	44.08	73.98
0.15000	CAverage	10	300	-3.95	20.18	-59.08	-42.85	24.08	66.93
0.15400	Peak	10	300	26.55	20.18	-59.08	-12.35	43.85	56.20
0.15400	CAverage	10	300	12.62	20.18	-59.08	-26.28	23.85	50.13
0.20600	Peak	10	300	23.54	20.08	-59.08	-15.46	41.33	56.79
0.20600	CAverage	10	300	13.40	20.08	-59.08	-25.60	21.33	46.93
0.33875	Peak	10	300	21.22	20.08	-59.08	-17.78	37.01	54.79
0.33875	CAverage	10	300	8.32	20.08	-59.08	-30.68	17.01	47.69
0.49000	Peak	10	30	15.31	20.08	-19.08	16.31	33.80	17.49
0.49000	CAverage	10	30	1.85	20.08	-19.08	2.85	13.80	10.95
0.52200	Quasi-Peak	10	30	8.05	20.08	-19.08	9.05	33.25	24.20



Product Service

Frequency range 9 kHz – 30 MHz; EUT flat on table:

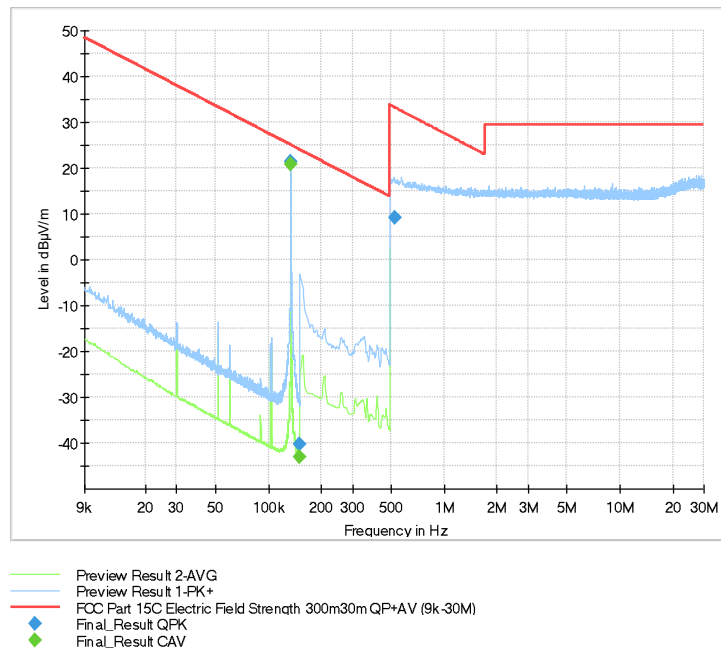


Fre- quency MHz	Qua- siPeak dBµV/m	Peak dBµV/m	CAver- age dBµV/m	Limit dBµV/m	Mar- gin dB	Meas. Time ms	Band- width kHz	Pol	Azi- muth deg	Corr. dB/m
0.085030	--	--	-38.49	29.01	67.5	1000.0	0.2	H	90.0	-38.9
0.085030	--	-27.68	--	49.01	76.69	1000.0	0.2	H	90.0	-38.9
0.134160	--	--	20.98	25.05	4.07	1000.0	0.2	V	92.0	-38.9
0.134160	--	21.71	--	45.05	23.34	1000.0	0.2	V	92.0	-38.9
0.150000	--	-29.90	--	44.08	73.98	1000.0	0.2	V	-66.0	-38.9
0.150000	--	--	-42.85	24.08	66.93	1000.0	0.2	V	-66.0	-38.9
0.206000	--	-15.46	--	41.33	56.79	1000.0	9.0	V	-53.0	-39.0
0.206000	--	--	-25.60	21.33	46.93	1000.0	9.0	V	-53.0	-39.0
0.338750	--	-17.78	--	37.01	54.79	1000.0	9.0	V	-56.0	-39.0
0.338750	--	--	-30.68	17.01	47.69	1000.0	9.0	V	-56.0	-39.0
0.490000	--	15.91	--	33.80	17.89	1000.0	9.0	V	-30.0	-39.0
0.490000	--	--	2.85	13.80	10.95	1000.0	9.0	V	-30.0	-39.0



Product Service

Frequency range 9 kHz – 30 MHz; EUT on long side:

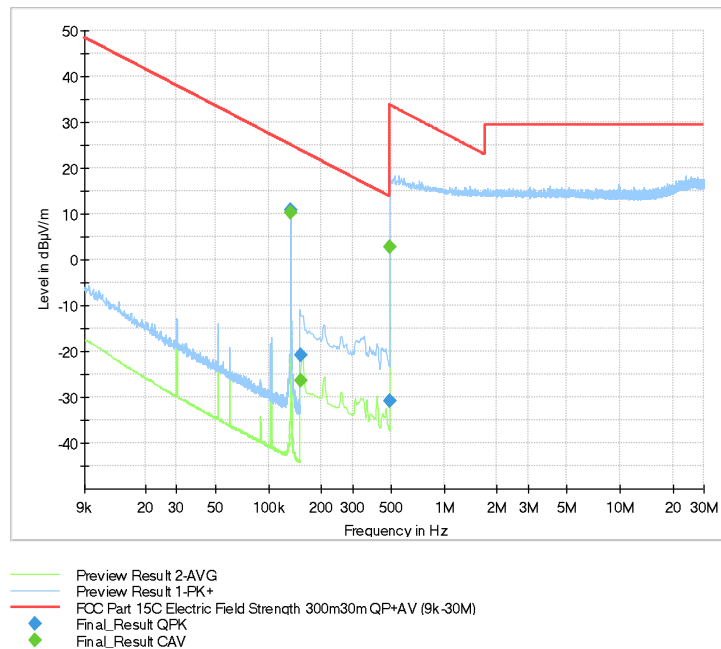


Fre- quency MHz	Qua- siPeak dBµV/m	Peak dBµV/m	CAver- age dBµV/m	Limit dBµV/m	Mar- gin dB	Meas. Time ms	Band- width kHz	Pol	Azi- muth deg	Corr. dB/m
0.134160	--	--	20.86	25.05	4.19	1000.0	0.200	V	94.0	-38.9
0.134160	--	21.66	--	45.05	23.39	1000.0	0.200	V	94.0	-38.9
0.150000	--	--	-42.93	24.08	67.01	1000.0	0.200	V	48.0	-38.9
0.150000	--	-31.55	--	44.08	75.63	1000.0	0.200	V	48.0	-38.9
0.522000	9.05	--	--	33.25	24.2	1000.0	9.000	H	160.0	1.0



Product Service

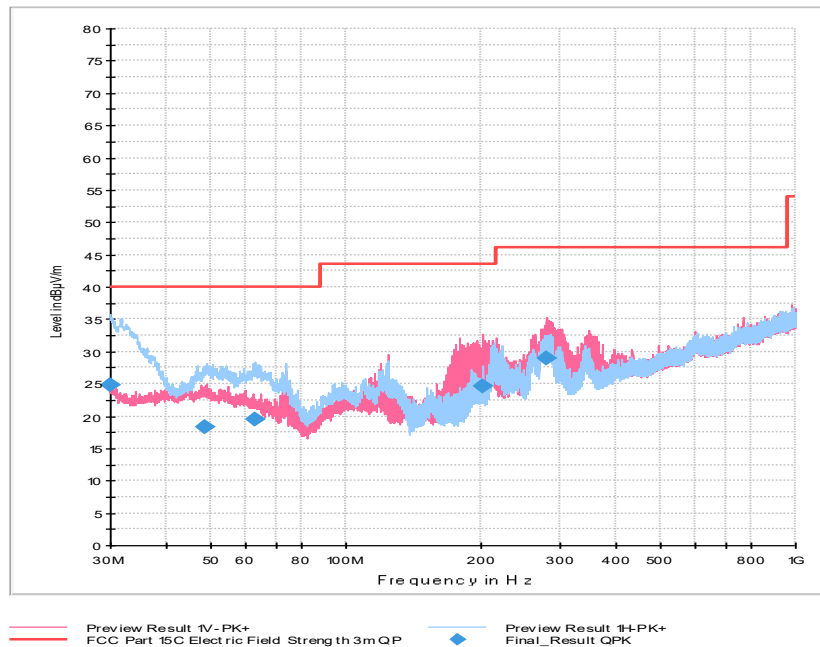
Frequency range 9 kHz – 30 MHz; EUT in upright position:



Fre- quency MHz	Qua- siPeak dBµV/m	Peak dBµV/m	CAver- age dBµV/m	Limit dBµV/m	Mar- gin dB	Meas. Time ms	Band- width kHz	Pol	Azi- muth deg	Corr. dB/m
0.134160	--	11.16	--	45.05	33.89	1000.0	0.200	H	175.0	-38.9
0.134160	--	--	10.34	25.05	14.71	1000.0	0.200	H	175.0	-38.9
0.154000	--	-12.35	--	43.85	56.20	1000.0	9.0	V	185.0	-38.9
0.154000	--	--	-26.28	23.85	50.13	1000.0	9.0	V	185.0	-38.9
0.490000	--	--	2.72	13.80	11.08	1000.0	9.0	H	36.0	-39.0
0.490000	--	16.31	--	33.80	17.49	1000.0	9.0	H	36.0	-39.0



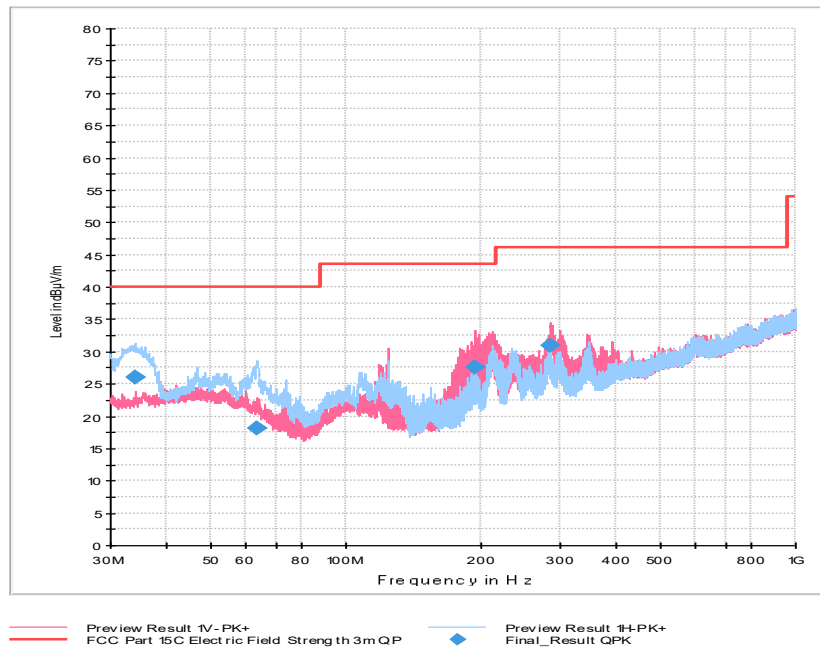
Frequency range 30 MHz – 1 GHz; EUT flat on table:



Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Band- width kHz	Height cm	Pol	Azi- muth deg	Corr. dB/m
30.060000	24.88	40.00	15.12	1000.0	120.000	110.0	H	58.0	18.3
48.450000	18.42	40.00	21.58	1000.0	120.000	115.0	H	75.0	22.0
62.640000	19.46	40.00	20.54	1000.0	120.000	106.0	H	75.0	20.3
201.000000	24.72	43.50	18.78	1000.0	120.000	139.0	V	-101.0	20.0
280.290000	28.95	46.02	17.08	1000.0	120.000	134.0	V	-136.0	22.0



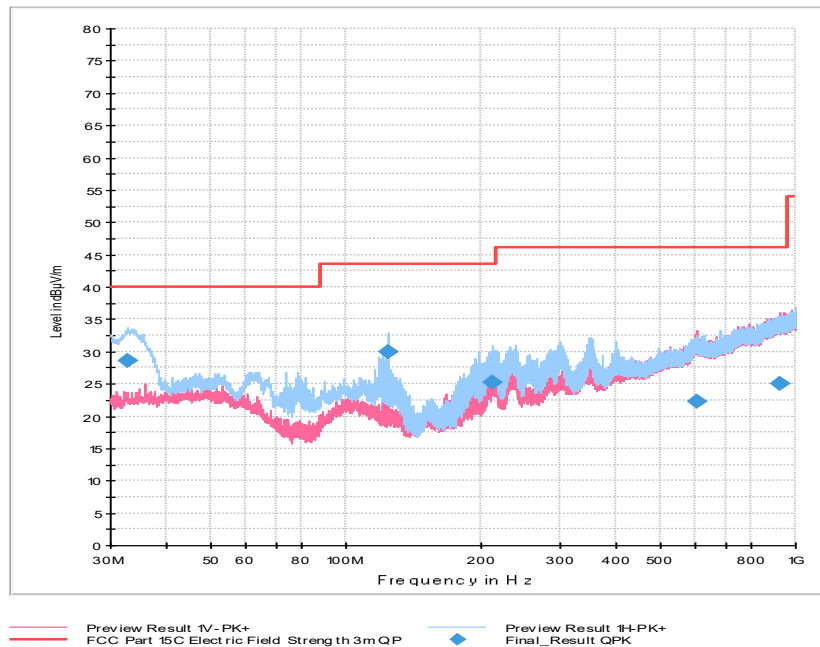
Frequency range 30 MHz – 1 GHz; EUT on long side:



Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Band- width kHz	Height cm	Pol	Azi- muth deg	Corr. dB/m
34.170000	26.03	40.00	13.97	1000.0	120.000	101.0	H	79.0	18.5
63.270000	18.14	40.00	21.86	1000.0	120.000	115.0	H	117.0	20.1
194.280000	27.57	43.50	15.93	1000.0	120.000	174.0	V	100.0	20.1
285.900000	30.92	46.02	15.10	1000.0	120.000	105.0	V	-116.0	22.1



Frequency range 30 MHz – 1 GHz; EUT in upright position:



Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Band- width kHz	Height cm	Pol	Azi- muth deg	Corr. dB/m
32.850000	28.55	40.00	11.45	1000.0	120.000	101.0	H	146.0	18.1
123.990000	30.00	43.50	13.50	1000.0	120.000	102.0	H	119.0	17.3
212.160000	25.16	43.50	18.34	1000.0	120.000	193.0	H	57.0	19.7
604.230000	22.21	46.02	23.81	1000.0	120.000	250.0	V	117.0	29.2
926.910000	25.08	46.02	20.94	1000.0	120.000	129.0	V	3.0	32.8



2.2.8 Test Location and Test Equipment

The test was carried out in semi anechoic room, cabin No. 3

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
EMI test receiver	Rohde & Schwarz	ESW26	28268	12	2026-07-31
EMC measurement software	Rohde & Schwarz	EMC32 K3 – V10.60.20	44376	---	---
Semi anechoic room	Frankonia	Cabin No. 3	56331	---	---
Attenuator 6dB for VULB9163	Schwarzbeck	DGA 9552 N	67422	36	2027-04-30

Table 11

The test was carried out in semi anechoic room, cabin No. 8

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Semi anechoic room	Albatross Projects	Cabin No. 8	19917	---	---
EMC measurement software	Rohde & Schwarz	EMC32 Emission K8 – 10.60.20	19927	---	---
EMI test receiver	Rohde & Schwarz	ESW26	28268	12	2026-07-31
Loop antenna	Schwarzbeck	FMZB 1519 C	72526	36	2028-01-31

Table 12



2.3 Temperature Stability

2.3.1 Specification Reference

ISED RSS-Gen, Clause 6.11, 8.11

2.3.2 Equipment under Test and Modification State

AWR300NFC; S/N 1308000942; Modification state 0

2.3.3 Date of Test

2025-10-06

2.3.4 Environmental Conditions

Ambient Temperature	19 °C
Relative Humidity	50 %

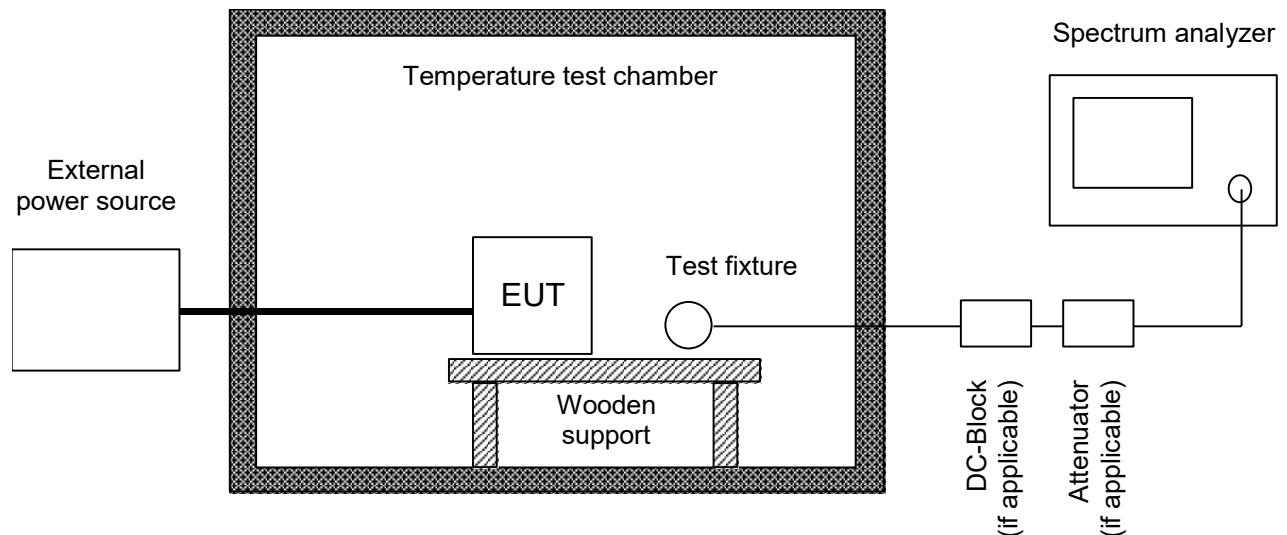
2.3.5 Specification Limits

If the stability of the license-exempt radio apparatus is not specified in the applicable RSS, the fundamental emissions of the radio apparatus should be kept within at least the central 80 % of its permitted operating frequency band in order to minimize the possibility of out-of-band operation. In addition, its occupied bandwidth shall be entirely outside the restricted bands and the prohibited TV bands of 85 MHz – 72 MHz, 76 MHz – 88 MHz, 174 MHz – 216 MHz, and 470 MHz – 602 MHz, unless otherwise indicated.



2.3.6 Test Method

The test was performed according to ANSI C63.10, section 6.8.



The frequency tolerance of the carrier signal is measured over a temperature variation of -20°C to $+50^{\circ}\text{C}$ at normal supply voltage, and for a variation in the primary supply voltage from 85 % to 115 % of the rated supply voltage at a temperature of 20°C . Temperature and voltage range may vary if the manufacturer states another temperature or voltage range.

If the EUT provides an antenna connector the spectrum analyzer is connected to this port. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as a DC block and appropriate (50 Ω) attenuators. In case where the EUT does not provide an antenna connector or a test fixture is used.

For battery operated equipment, the test is performed using a new battery. Alternatively, an external supply voltage can be used and is at least set to:

- The maximum battery voltage as delivered by a new battery or 115 % of the battery nominal voltage;
- The battery nominal voltage
- 85 % of the battery nominal voltage
- The battery operating end point voltage which shall be specified by the equipment manufacturer.

The EUT is operating providing an unmodulated carrier for frequency error tests. The peak detector of the spectrum analyzer is selected and resolution as well as video bandwidth are set to values appropriate to shape of the spectrum of the EUT. The frequency counter mode of the spectrum analyzer is used to maximize the accuracy of the measured frequency tolerance.

If an unmodulated carrier is not available a significant and stable point of the spectrum is selected and the span is reduced to a value that delivers an accuracy which shall be better than 1 % of the maximum frequency tolerance allowed for the carrier signal. This method may be performed as long as the margin to the frequency tolerance is larger than the uncertainty of the measured frequency tolerance.



2.3.7 Test Results

<i>Temperature</i>	<i>Voltage</i>	<i>f_c</i>	<i>Frequency drift</i>	<i>Frequency drift</i>
-20 °C	120 V	134.2058 kHz	2.6 Hz	19.37 ppm
-10 °C	120 V	134.2058 kHz	2.6 Hz	19.37 ppm
0 °C	120 V	134.2058 kHz	2.6 Hz	19.37 ppm
10 °C	120 V	134.2057 kHz	2.5 Hz	18.63 ppm
20 °C	102 V	134.2054 kHz	2.2 Hz	16.39 ppm
20 °C	120 V	134.2032 kHz	0.0 Hz	0.00 ppm
20 °C	138 V	134.2037 kHz	0.5 Hz	3.73 ppm
30 °C	120 V	134.2051 kHz	1.9 Hz	14.16 ppm
40 °C	120 V	134.1962 kHz	-7.0 Hz	-52.16 ppm
50 °C	120 V	134.2017 kHz	-1.5 Hz	-11.18 ppm

Table 13

2.3.8 Test Location and Test Equipment

The test was carried out in radio test laboratory

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Climatic test chamber	ESPEC	PL-4J	38958	12	2026-09-06
Signal and spectrum analyser	Rohde & Schwarz	FSV40	20219	24	2026-03-31
AC/DC source	Elettrotest	TPS/M 3000	64414	---	---

Table 14



3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

<i>Radio Interference Emission Testing</i>		
<i>Test Name</i>	<i>kp</i>	<i>Expanded Uncertainty</i>
Conducted Voltage Emission		
9 kHz to 150 kHz (50Ω/50μH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50μH AMN)	2	± 3.4 dB
100 kHz to 200 MHz (50Ω/5μH AMN)	2	± 3.6 dB
Discontinuous Conducted Emission		
9 kHz to 150 kHz (50Ω/50μH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50μH AMN)	2	± 3.4 dB
Conducted Current Emission		
9 kHz to 200 MHz	2	± 3.5 dB
Magnetic Fieldstrength		
9 kHz to 30 MHz (with loop antenna)	2	± 3.9 dB
9 kHz to 30 MHz (large-loop antenna 2 m)	2	± 3.5 dB
Radiated Emission		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 5.0 dB
1 GHz to 6 GHz	2	± 4.6 dB
Test distance 10 m		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 4.9 dB
The expanded uncertainty reported according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 is based on a standard uncertainty multiplied by a coverage factor of $k_p = 2$, providing a level of confidence of $p = 95.45\%$		

Table 15 Measurement uncertainty based on CISPR 16-4-2



<i>Radio Interference Emission Testing</i>		
<i>Test Name</i>	<i>kp</i>	<i>Expanded Uncertainty</i>
Occupied Bandwidth	2	± 5 %
Conducted Power		
9 kHz ≤ f < 30 MHz	2	± 1.0 dB
30 MHz ≤ f < 1 GHz	2	± 1.5 dB
1 GHz ≤ f ≤ 40 GHz	2	± 2.5 dB
1 MS/s power sensor (TS8997)	2	± 1.5 dB
Occupied Bandwidth	2	± 5 %
Power Spectral Density	2	± 3.0 dB
Radiated Power		
25 MHz – 6 GHz	1.96	±4.4 dB
1 GHz – 18 GHz	1.96	±4.7 dB
18 GHz – 40 GHz	1.96	±4.9 dB
40 GHz – 325 GHz	1.96	±6.1 dB
Conducted Spurious Emissions	2	± 3.0 dB
Radiated Spurious Emissions	2	± 6.0 dB
Voltage		
DC	2	± 1.0 %
AC	2	± 2.0 %
Time (automatic)	2	± 5 %
Frequency	2	± 10 ⁻⁷
The expanded uncertainty reported according to ETSI TR 100 028:2001 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%		

Table 16 Measurement uncertainty based on ETSI TR 100 028

The measurement uncertainty in the laboratory is less than or equal to the maximum measurement uncertainty according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 (U_{CISPR}) and as specified in the test report below. This normative regulation means that the measured value is also the value to be assessed in relation to the limit value.



Product Service

Test Name	Expanded Uncertainty
Occupied Bandwidth	±5 %
Conducted Power	
9 kHz ≤ f < 30 MHz	±1.0 dB
30 MHz ≤ f < 1 GHz	±1.5 dB
1 GHz ≤ f ≤ 40 GHz	±2.5 dB
1 MS/s power sensor (2.4 / 5 GHz band)	±1.5 dB
Power Spectral Density	±3.0 dB
Radiated Power	
25 MHz – 26.5 GHz	±6.0 dB
26.5 GHz – 66 GHz	±8.0 dB
40 GHz – 325 GHz	±10.0 dB
Conducted Spurious Emissions	±3.0 dB
Radiated Field Strength 9 kHz – 40 GHz	±6.0 dB
Voltage	
DC	± 1.0 %
AC	± 2.0 %
Time (automatic)	± 5 %
Frequency	± 10 ⁻⁷

Table 17 Decision Rule: Maximum allowed measurement uncertainty

End of Test Report