

EMI - TEST REPORT

- FCC Part 15.209, RSS-GEN -

Type / Model Name : G4767A

Product Description : Multisampler

> **Applicant** : Agilent Technologies Deutschland GmbH

Address : Hewlett-Packard-Strasse 8

76337 Waldbronn, Baden-Württemberg

GERMANY

Manufacturer : Agilent Technologies Singapore (International) Pte. Ltd.

Address : No. 1 Yishun Ave 7

SINGAPORE 768923

SINGAPORE

Test Result according to the standards listed in clause 1 test standards:

POSITIVE

Test Report No.: 80192415-00 Rev_0 25. September 2024

Date of issue





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ATTACHMENT A to ATTACHMENT C as separate supplement



1 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules and Regulations Part 15, Subpart A - General (January 2024)

FCC Rules and Regulations Part 15, Subpart C - Intentional Radiators (January 2024)

Part 15, Subpart C, Section 15.207 Conducted limits

Part 15, Subpart C, Section 15.209 Radiated emission limits, general requirements

RSS Rules and Regulations

RSS-Gen, Issue 5, March 2018 General Requirements and Information for the Certification of

Amendment 1 (March 2019) Radiocommunication Equipment Amendment 2 (February 2021)

RSS-210, Issue 11, June 2024 Licence-Exempt Radio Apparatus: Category I Equipment

ANSI C63.10: 2013 Testing Unlicensed Wireless Devices



2 **EQUIPMENT UNDER TEST**

2.1 Information provided by the Client

Please note, we do not take any responsibility for information provided by the client or his representative which may have an influence on the validity of the test results.

2.2 Sampling

The customer is responsible for the choice of sample. Sample configuration, start-up and operation is carried out by the customer or according his/her instructions.

2.3 Photo documentation of the EUT

Detailed photos see ATTACHMENT A and ATTACHMENT C

ATTACHMENT A: External views ATTACHMENT B: Internal views ATTACHMENT C: Test setup





2.4 Short description of the equipment under test (EUT)

The EUT is an Multisampler that can handle both vials and microtiter plates with ease and efficiency up to 1300 bar system pressure.

Three internal 125 kHz antennas are located in the device. The TAG reader reads sequencially each antenna.

Number of tested samples:

Serial number: DEAFD00508

2.5 Variants of the EUT

According to the customer, there are other variants of this device. It is expressly pointed out here, that no measurements have been carried out on these devices!

G7167A Multisampler upto 1300 bar G7167B Multisampler upto 800 bar G5668A Bio-Inert Multisampler upto 600 bar G7137A Bio Multisampler upto 1300 bar

2.6 EUT operation mode

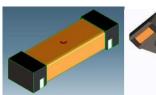
The equipment under test was operated during the measurement under the following conditions:

- Cont. TAG reading at 125 kHz (all antennas are read sequentially)

2.7 Antenna

Antenna: 125KHz

9140-5210 PCB Mountable Part • IND-FXD 900uH 5% 10mA 3.6X11.8mm SMT (Premo P/N SDTR1103-0090)





2.8 EUT configuration

The following peripheral devices and interface cables were connected during the measurements:

-	5 Port Gigabit Switch	Model : Netgear – GS105 v4
-	Measurement Laptop	Model : HP – EliteBook 840 (CSA No.:01-01/01-15-019)
-		Model:



2.9 Power supply system utilised

Power supply voltage : 100 - 240 V AC, 50 or 60 Hz

All tests were carried out with a supply voltage of 120 V, 60 Hz unless otherwise stated. Exceptions are described in the detailed test conditions.



3 TEST RESULT SUMMARY

FCC Rule Part	RSS Rule Part	Description	Result
15.207	RSS-Gen, 8.8 RSS-210, 7	AC power line conducted emissions	passed
15.209	RSS-Gen, 8.9 RSS-210, 7	Field strength of fundamental	passed
15.209 RSS-Gen, 8.9 RSS-210, 7		Spurious emissions	passed
15.215 RSS-Gen, 6.7 RSS-210, 7		Occupied bandwidth	passed

3.1 Revision history of test report

Te	est report No	Rev.	Issue Date	Changes
80	192415-00	0	25 September 2024	Initial test report

The test report with the highest revision number replaces the previous test reports.

3.2 FINAL ASSESSMENT

The equipment under test fulfills the	EM	I requirements cited in clause	1 test standards	S.	
Date of receipt of test sample	Ξ	acc. to storage records			
Testing commenced on	:	08 February 2024			
Testing concluded on	:	26 February 2024			
Checked by:			Tested by:		
Klaus Gegenfurtner Teamleader Radio				Josef Knab Radio Team	-



4 TEST ENVIRONMENT

4.1 Address of the test laboratory

CSA Group Bayern GmbH Ohmstrasse 1-4 94342 STRASSKIRCHEN GERMANY

4.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15 - 35 ° C

Humidity: 30 - 60 %

Atmospheric pressure: 86 - 106 kPa

4.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. It is noted that the expanded measurement uncertainty corresponds to the measurement results from the standard measurement uncertainty multiplied by the coverage factor k = 2. The true value is located in the corresponding interval with a probability of 95 %. The measurement uncertainty was calculated for all measurements listed in this test report on basis of the ETSI Technical Report TR 100 028 Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1 and Part 2. The results are documented in the quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	± 3.29 dB
20 dB Bandwidth	Center frequency of EuT	95%	± 2.5 10 ⁻⁷
99% Occupied Bandwidth	Center frequency of EuT	95%	± 2.5 10 ⁻⁷
Radiated Spurious Emissions	9 kHz to 30 MHz	95%	± 3.53 dB
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	± 3.71 dB
Radiated Spurious Emissions	1000 MHz to 10000 MHz	95%	± 2.34 dB
Peak conducted output power	902 MHz to 928 MHz	95%	± 0.35 dB
Conducted Spurious Emissions	9 kHz to 10000 MHz	95%	± 2.15 dB



4.4 Conformity Decision Rule

The applied conformity decision rule is based on ILAC G8:09/2019 clause 4.2.1 Binary Statement for Simple Acceptance Rule (w = 0).

Details can be found in the procedure CSA_B_V50_29.

4.5 Measurement protocol for FCC and ISED

4.5.1 GENERAL INFORMATION

CSA Group Bayern GmbH is recognized as wireless testing laboratory under the CAB identifier:

FCC: DE 0011 ISED: DE0009

4.5.2 General Standard information

The test methods used comply with ANSI C63.10 - "Testing Unlicensed Wireless Devices".

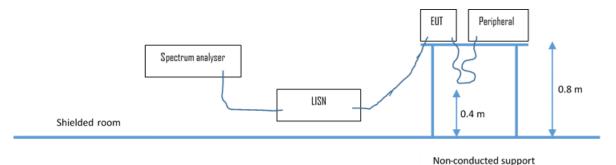
4.5.2.1 Justification

The equipment under test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions.

4.5.3 Details of test procedures

4.5.3.1 Conducted emission

Test setup according ANSI C63.10



The final level, expressed in $dB_{\mu}V$, is arrived at by taking the reading directly from the Spectrum analyser. This level is compared to the limit.

To convert between $dB\mu V$ and μV , the following conversions apply:

$$dB\mu V = 20(log \mu V)$$

 $\mu V = log(dB\mu V/20)$

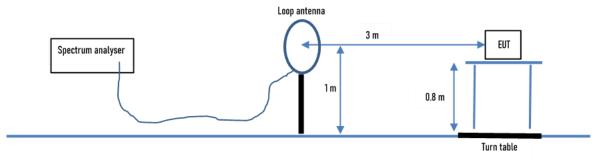
Conducted emissions on the 50 Hz and/or 60 Hz power interface of the EUT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection and a Line Impedance Stabilization Network (LISN) with 50 Ω / 50 μ H (CISPR 16) characteristics. The receiver is protected by means of an impedance matched pulse limiter connected directly to the RF input. Table top equipment is placed on a non-conducting table 80 centimetres above the floor and is positioned 40 centimetres from the vertical ground plane (wall) of the screen room. If the minimum limit margin appears to be less than 20 dB with a peak mode measurement, the emission is re-measured using a tuned receiver with quasi-peak and average detection and recorded on the data sheets.



4.5.3.2 Radiated emission

4.5.3.2.1 OATS1 test site (9 kHz - 30 MHz):

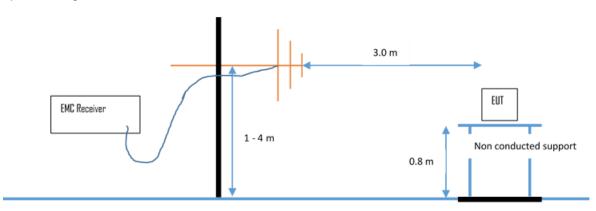
Test setup according ANSI C63.10



Emissions from the EUT are measured in the frequency range of 9 MHz to 30 MHz using a tuned receiver and a calibrated loop antenna. Table top equipment is placed on a 1.0 X 1.5 m non-conducting table 80 centimetres above the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screened room located outside the test area. The antenna is positioned 3, 10 or 30 metres horizontally from the EUT and is repeated vertically. To locate maximum emissions from the test sample the antenna is varied along the site axis and the EUT is rotated 360 degrees.

4.5.3.2.2 OATS1 test site (30 MHz - 1 GHz):

Test setup according ANSI C63.10.



Spurious emissions from the EUT are measured in the frequency range of 30 MHz to 1000 MHz using a tuned receiver and appropriate broadband linearly polarised antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection. Table top equipment is placed on a 1.0 X 1.5 m non-conducting table 80 centimetres above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screened room located outside the test area. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 metres and the EUT is rotated 360 degrees. The final level in dB μ V/m is calculated by taking the reading from the EMI receiver (Level dB μ V) and adding the correction factors and cable loss factor (dB). The FCC limit is subtracted from this result in order to provide the limit margin listed in the measurement protocol.

The resolution bandwidth setting:

30 MHz – 1000 MHz: RBW: 120 kHz

Example:

Frequency	Level	+	Factor	:	= Level	-	Limit	=	Delta
(MHz)	(dBµV)		(dB)		(dBµV/m)		(dBµV/m)		(dB)
719.0	75.0	+	32.6	=	= 107.6	-	110.0	=	-2.4

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5 TEST CONDITIONS AND RESULTS

5.1 Conducted emissions

For test instruments and accessories used, see section 6 Part A 4.

5.1.1 Description of the test location

Test location: Shielded Room S2

5.1.2 Photo documentation of the test set-up

See ATTACHMENT C to this test report.

5.1.3 Applicable standard

FCC Part 15, Section 15.207 / RSS-GEN, Section 8.8

5.1.4 Description of Measurement

The radiated power of the spurious emission from the EUT is measured in a test setup following the procedures set out in ANSI C63.10.

5.1.5 Test result

Frequency range: 0.15 MHz - 30 MHz

Min. limit margin 4.6 dB at 494.25 kHz

Limit according to FCC Part 15, Section 15.207: Limit according to RSS-GEN, Section 8.8:

Frequency of Emission	Conducted Limit (dBµV)			
(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56 *	56 to 46 *		
0.5-5	56	46		
5-30	60	50		

^{*} Decreases with the logarithm of the frequency

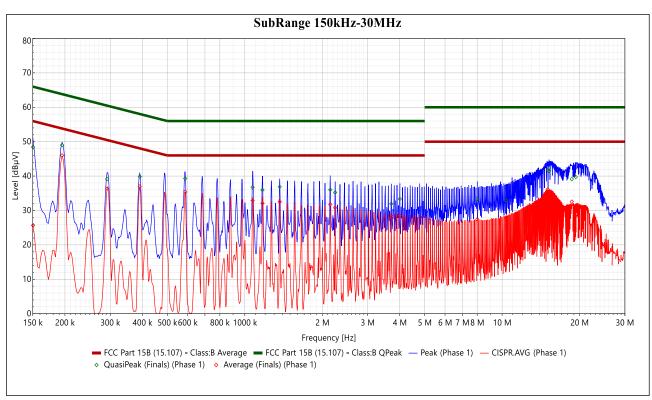
The requirements are FULFILLED.

Remarks: For detailed results, please see the following page(s).



5.1.6 Test protocol

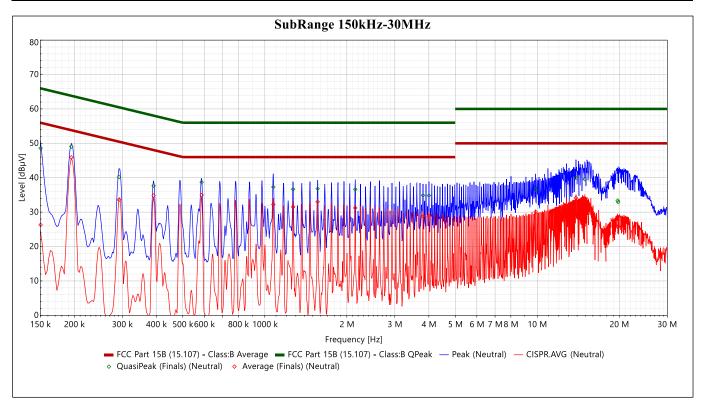
File No.:	80192415-00 Rev_0		Result:	PASS
Operation mode:	Cont. TAG reading at 125 kHz			
Tested by:	KJ	Nexio Version	2023.0.8.0	
Location:	S2	Date	: 07.02.2024 1	3:24:19
Remarks:	Test point L1			



Frequency (Hz)	QuasiPeak (dBµV)	QP Margin	QP Limit (dBµV)	Average (dBµV)	AV Margin	AV Limit (dBµV)	Line	Correction (dB)
150 k	48.409	17.591	66	25.688	30.312	56	Phase 1	10.084
195 k	49.012	14.808	63.821	46.01	7.811	53.821	Phase 1	10.097
291.75 k	39.141	21.333	60.474	36.38	14.095	50.474	Phase 1	10.126
390.75 k	39.863	18.185	58.048	36.986	11.061	48.048	Phase 1	10.154
586.5 k	39.29	16.71	56	35.386	10.614	46	Phase 1	10.175
1.0725 M	36.743	19.257	56	32.895	13.105	46	Phase 1	10.193
1.1715 M	35.965	20.035	56	32.07	13.93	46	Phase 1	10.206
1.36725 M	36.879	19.121	56	32.56	13.44	46	Phase 1	10.231
2.148 M	36.018	19.982	56	31.756	14.244	46	Phase 1	10.261
2.24475 M	35.24	20.76	56	30.824	15.176	46	Phase 1	10.271
3.7095 M	31.947	24.053	56	28.213	17.787	46	Phase 1	10.341
4.00425 M	33.35	22.65	56	28.506	17.494	46	Phase 1	10.363
8.007 M	33.324	26.676	60	27.447	22.553	50	Phase 1	10.545
10.3515 M	32.973	27.027	60	27.926	22.074	50	Phase 1	10.59
15.03825 M	41.721	18.279	60	36.126	13.874	50	Phase 1	10.847
15.2295 M	41.532	18.468	60	29.804	20.196	50	Phase 1	10.848
18.65175 M	39.106	20.894	60	32.558	17.442	50	Phase 1	10.922
19.329 M	39.726	20.274	60	28.317	21.683	50	Phase 1	10.939



File No.:	80192415-00 Rev_0		Result:	PASS
Operation mode:	Cont. TAG reading at 125 kHz			
Tested by:	KJ	Nexio Version:	2023.0.8.0	
Location:	S2	Date:	07.02.2024	13:24:19
Remarks:	Test point N			



Frequency (Hz)	QuasiPeak (dBµV)	QP Margin	QP Limit (dBµV)	Average (dBµV)	AV Margin	AV Limit (dBµV)	Line	Correction (dB)
150 k	48.599	17.401	66	26.317	29.683	56	Neutral	10.134
195 k	49.064	14.757	63.821	45.912	7.909	53.821	Neutral	10.144
291.75 k	40.199	20.276	60.474	33.576	16.898	50.474	Neutral	10.167
390.75 k	37.655	20.393	58.048	34.825	13.223	48.048	Neutral	10.175
586.5 k	38.686	17.314	56	34.968	11.032	46	Neutral	10.175
1.07475 M	37.31	18.69	56	32.25	13.75	46	Neutral	10.242
1.2705 M	36.658	19.342	56	31.523	14.477	46	Neutral	10.265
1.563 M	36.805	19.195	56	33.027	12.973	46	Neutral	10.288
2.148 M	36.623	19.377	56	31.232	14.768	46	Neutral	10.293
3.8085 M	34.878	21.122	56	28.82	17.18	46	Neutral	10.369
4.002 M	34.833	21.167	56	28.885	17.115	46	Neutral	10.382
9.86325 M	36.462	23.538	60	30.088	19.912	50	Neutral	10.589
13.86375 M	40.013	19.987	60	34.127	15.873	50	Neutral	10.895
14.9415 M	39.56	20.44	60	33.539	16.461	50	Neutral	10.903
19.72725 M	33.362	26.638	60	25.702	24.298	50	Neutral	11.055
19.8195 M	32.925	27.075	60	25.877	24.123	50	Neutral	11.062



5.2 Field strength of the fundamental wave

For test instruments and accessories used see section 6 Part CPR 1.

5.2.1 Description of the test location

Test location: OATS 1
Test distance: 3 m

5.2.2 Photo documentation of the test set-up

See ATTACHMENT C to this test report.

5.2.3 Applicable standard

FCC Part 15, Section 15.209(a) / RSS-GEN, Section 8.9

5.2.4 Description of Measurement

The radiated power of the spurious emission from the EUT is measured in a test setup following the procedures set out in ANSI C63.10.

5.2.5 Test result accd. to FCC

a) Result at a measurement distance of 3 m

Frequency	Level	Ant. factor	Field strength
(kHz)	(dBµV)	(dB 1/m)	dB(μV/m)
125.00	49.4	18.0	67.4

b) Result extrapolated to a distance of 300 m

Frequency	Field strength	Extrapolation	Field strength	Limit	Delta
(kHz)	dB(µV/m) @3m	factor (dB)	dB(µV/m) @300m	dB(μV/m)	(dB)
125.00	67.4	-80.0	-12.6	25.7	-38.3

Limit according to FCC Part 15, Section 15.209(a):

Frequency	Field strength of f	undamental wave	Measurement distance
(kHz)	(µV/m)	dB(μV/m)	(metres)
125	19.2	25.7	300



5.2.6 Test result accd. to RSS

a) Result at a measurement distance of 3 m

Frequency (kHz)	Level (dBµA)	Ant. factor (dB 1/m)	Field strength dB(µA/m)
125.00	-2.1	18.0	15.9

b) Result extrapolated to a distance of 300 m

Frequency	Field strength	Extrapolation	Field strength	Limit	Delta
(kHz)	dB(µA/m) @3m	factor (dB)	dB(µA/m) @300m	dB(μA/m)	(dB)
125.00	15.9	-80.0	-64.1	-25.9	-38.2

Limit according to RSS-GEN, Section 8.9:

Frequency	Field strength of f	undamental wave	Measurement distance
(kHz)	(µA/m)	dB(μA/m)	(metres)
125	0.05096	-25.9	300

The requirements are FULFILLED.

Remarks: The measurements were carried out with a PK detector because the EuT operate over several

antennas at different times.



5.3 Spurious emissions

For test instruments and accessories used see section 6 Part SER 1, SER 2.

5.3.1 Description of the test location

Test location: OATS 1
Test distance: 3 metres

5.3.2 Photo documentation of the test set-up

See ATTACHMENT C to this test report.

5.3.3 Applicable standard

FCC Part 15, Section 15.209 / RSS-GEN, Section 8.9

5.3.4 Description of Measurement

The radiated power of the spurious emission from the EUT is measured in a test setup following the procedures set out in ANSI C63.10.

The resolution bandwidth during the measurement is as follows:

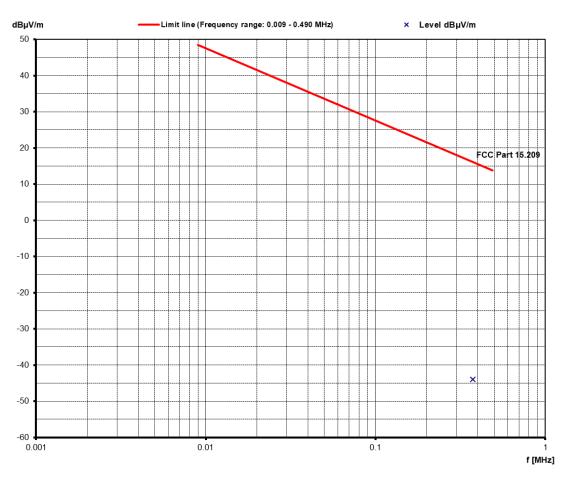
9 kHz – 150 kHz: RBW: 200 Hz 150 kHz – 30 MHz: RBW: 9 kHz 30 MHz – 1000 MHz: RBW: 120 kHz

Detector: QP (In frequency range 9-90 kHz and 110-490 kHz a linear average detector is used)



5.3.5 Test result < 30MHz accd. to FCC

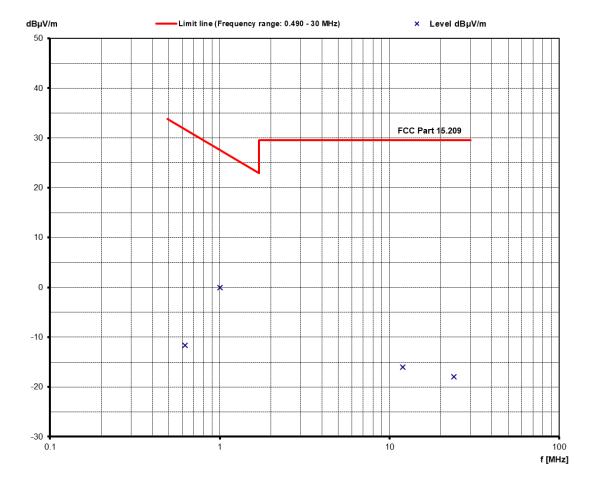
Freque (kHz	α α	Ant. factor (dB 1/m)	Field strength @3m dB(µV/m)	Extrapolation factor @300m (dB)	Field strength level @300m dB(µV/m)	Limit dB(µV/m)	Delta (dB)
375.0	19.1	16.9	36.0	-80.0	-44.0	16.1	-60.1





Frequency (kHz)	Level @3m (dBµV)	Ant. factor (dB 1/m)	Field strength @3m dB(µV/m)	Extrapolation factor @30m (dB)	Field strength level @30m dB(µV/m)	Limit dB(µV/m)	Delta (dB)
625.00	9.9	18.5	28.4	-40.0	-11.6	31.7	-43.3
1000*	21.8	18.2	40.0	-40.0	0.0	27.6	-27.6
12000*	6.4	17.6	24.0	-40.0	-16.0	29.5	-45.5
24000*	4.0	18.0	22.0	-40.0	-18.0	29.5	-47.5

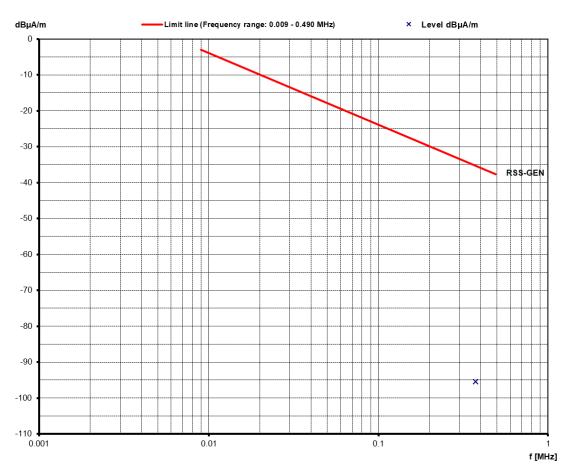
Note: *) Ambient noise, no other spurious emissions could be detected





5.3.6 Test result < 30MHz accd. to RSS

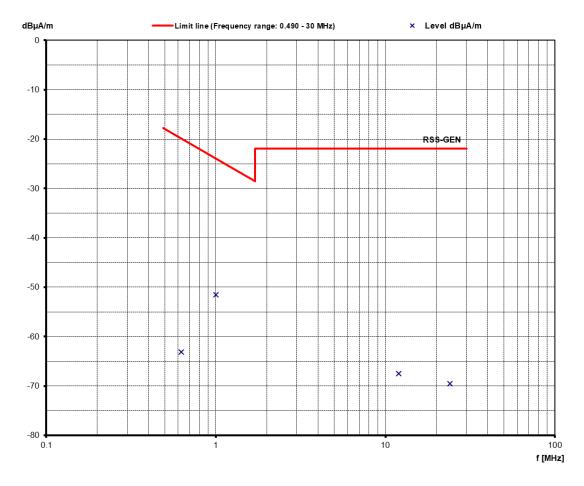
F	Frequency (kHz)	Level @3m (dBµA)	Ant. factor (dB 1/m)	Field strength @3m dB(µA/m)	Extrapolation factor @300m (dB)	Field strength level @300m dB(µA/m)	Limit dB(µA/m)	Delta (dB)
	375.00	-32.4	16.9	-15.5	-80.0	-95.5	-35.4	-60.1





Frequency (kHz)	Level @3m (dBµA)	Ant. factor (dB 1/m)	Field strength @3m dB(µA/m)	Extrapolation factor @30m (dB)	Field strength level @30m dB(µA/m)	Limit dB(µA/m)	Delta (dB)
625.00	-41.6	18.5	-23.1	-40.0	-63.1	-19.8	-43.3
1000*	-29.7	18.2	-11.5	-40.0	-51.5	-23.9	-27.6
12000*	-45.1	17.6	-27.5	-40.0	-67.5	-21.9	-45.6
24000*	-47.5	18.0	-29.5	-40.0	-69.5	-21.9	-47.6

Note: *) Ambient noise, no other spurious emissions could be detected.

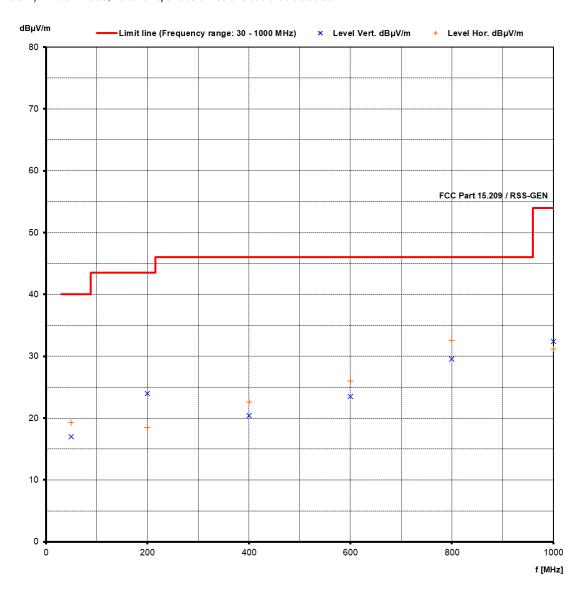




5.3.7 Test result 30 MHz < f < 1 GHz

Frequency (MHz)	Reading Vert. (dBµV)	Reading Hor. (dBµV)	Correct. Vert. (dB)	Correct. Hor. (dB)	Level Vert. (dBµV/m)	Level Hor. (dBµV/m)	Limit (dBµV/m)	Dlimit (dB)
50*	-0.6	0.5	17.6	18.8	17.0	19.3	40.0	-20.7
200*	7.0	2.0	17.0	16.5	24.0	18.5	43.5	-19.5
400*	-2.9	-1.0	23.3	23.6	20.4	22.6	46.0	-23.4
600*	-4.8	-2.6	28.3	28.6	23.5	26.0	46.0	-20.0
800*	-2.0	0.7	31.6	31.9	29.6	32.6	46.0	-13.4
1000*	-1.6	-3.2	34.0	34.4	32.4	31.2	54.0	-21.6

Note: The correction factor includes cable loss and antenna factor. Note: *) Ambient noise, no other spurious emissions could be detected.





Limit according to FCC Part 15, Section 15.209(a)

Frequency	Field strength of sp	urious emissions	Measurement distance
(MHz)	(µV/m)	dB(μV/m)	(metres)
0.009 - 0.490	2400/F(kHz)	-	300
0.490 - 1.705	24000/F (kHz)		30
1.705 - 30.0	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Limit according to RSS-Gen, Section 8.9

Frequency	Field strength of sp	urious emissions	Measurement distance		
(MHz)	(µA/m)	dB(μA/m)	(metres)		
0.009 - 0.490	6.37/F(kHz)	•	300 (Note 1)		
0.490 - 1.705	63.7/F (kHz)	-	30		
1.705 - 30.0	0.08	-22	30		
Frequency	Field strength of spurious emissions		Measurement distance		
(MHz)	(µV/m)	dB(μV/m)	(metres)		
30 - 88	100	40	3		
88 - 216	150	43.5	3		
216 - 960	200	46	3		
Above 960	500	54	3		

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

The requirements are FULFILLED.

Remarks: Measurement has been performed up to 1000 MHz.

The measurements were carried out with a PK detector because the EuT operate over several

antennas at different times.



5.4 Bandwidth

For test instruments and accessories used see section 6 Part MB.

5.4.1 Description of the test location

Test location: AREA4

5.4.2 Photo documentation of the test set-up

See ATTACHMENT C to this test report.

5.4.3 Applicable standard

According to FCC Part 15, Section 15.215(c) / RSS-GEN, Section 6.7

5.4.4 Test result

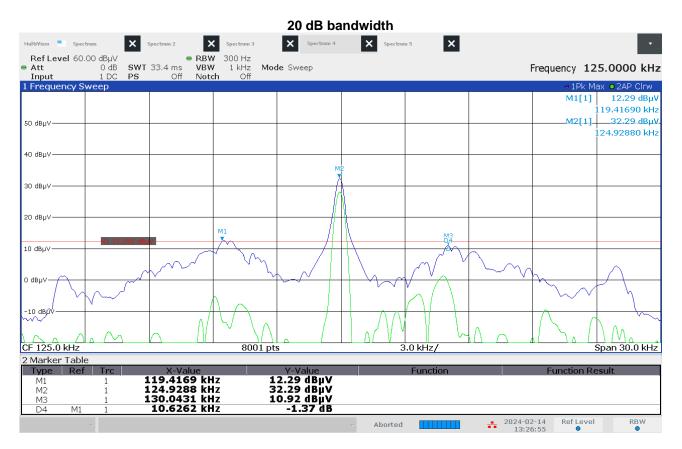
Measured	result	Limit	
Bandwidth	(kHz)	(kHz)	
20dB	10.626		
99%	18.726		

The requirements are **FULFILLED**.

Remarks: For detailed test result please refer to following test protocol.



5.4.5 Test protocol



99% Bandwidth X Spectrum 4 X Spectrum 5 × RBW 300 HzVBW 1 kHzNotch Off Ref Level 60.00 dBµV 0 dB 1 DC SWT 33.4 ms PS Off Mode Sweep Frequency 125.0000 kHz Input 24.92876 kHz 50 dBµV 40 dBµV 30 dBµV 20 dBµV 10 dBµ∨ о двич -10 dBµ√ -30 dB<mark>u</mark>∨ CF 125.0 kHz 8001 pts 3.0 kHz/ Span 30.0 kHz 2 Marker Table Type 32.30 dBµV 124.92876 kHz 18.726134861 kHz M1 T1 Occ Bw Centroid 4.38 dBµV -1.18 dBµV 116.1488 kHz 125.511868631 kHz 134.87494 kHz Occ Bw Freq Offs 511.868631456 Hz

Ref Level



6 USED TEST EQUIPMENT AND ACCESSORIES

All test instruments used are calibrated and verified regularly. The calibration history is available on request. All listed measuring devices were calibrated at the time of use.

Test ID	Model Type	Equipment No.	Next Calib.	Last Calib.	Next Verif.	Last Verif.
A 4	BAT-EMC 2023.0.8.0	01-02/68-13-001				
	ESR 7	02-02/03-17-001	01/08/2024	01/08/2023		
	ESH 2 - Z 5	02-02/20-05-004	13/10/2025	13/10/2022	17/04/2024	17/04/2023
	N-4000-BNC	02-02/50-05-138				
	ESH 3 - Z 2	02-02/50-05-155	09/11/2025	09/11/2022	25/07/2024	25/07/2023
	6430	02-02/50-13-014				
CPR 1	ESW26	02-02/03-17-002	08/03/2024	08/03/2023		
	HFH 2 - Z 2	02-02/24-05-020	01/06/2025	01/06/2022	05/09/2024	05/09/2023
	KK-EF393-21N-16	02-02/50-05-033				
	NW-2000-NB	02-02/50-05-113				
	KK-EF393/U-16N-21N20 m	02-02/50-12-018				
	KK-SD_7/8-2X21N-33,0M	02-02/50-15-028				
MB	METRAHIT WORLD	02-02/32-15-001	22/11/2024	22/11/2023		
	WK-340/40	02-02/45-05-001	27/07/2024	27/07/2023		
	Type 5315.5	02-02/50-05-197				
	7405	02-02/50-05-235				
	ESW44	09-16/03-24-001	21/11/2024	21/11/2023		
SER 1	ESW26	02-02/03-17-002	08/03/2024	08/03/2023		
	HFH 2 - Z 2	02-02/24-05-020	01/06/2025	01/06/2022	05/09/2024	05/09/2023
	KK-EF393-21N-16	02-02/50-05-033				
	NW-2000-NB	02-02/50-05-113				
	KK-EF393/U-16N-21N20 m	02-02/50-12-018				
	KK-SD_7/8-2X21N-33,0M	02-02/50-15-028				
SER 2	ESVS 30	02-02/03-05-006	27/07/2024	27/07/2023		
	ESW26	02-02/03-17-002	08/03/2024	08/03/2023		
	VULB 9168	02-02/24-05-005	20/04/2024	20/04/2023	03/05/2024	03/05/2023
	NW-2000-NB	02-02/50-05-113				
	KK-EF393/U-16N-21N20 m	02-02/50-12-018				
	KK-SD_7/8-2X21N-33,0M	02-02/50-15-028				
	50F-003 N 3 dB	02-02/50-21-010				