



EMI - TEST REPORT

- FCC Part 15.209, RSS-GEN -

Type / Model Name : G7120A

Product Description : High Speed Pump

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
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Test Report No. : 80192410-00 Rev_1	15. October 2024 <hr style="width: 80%; margin: 0 auto;"/> Date of issue
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Deutsche
 Akkreditierungsstelle
 D-PL-12030-01-03
 D-PL-12030-01-04

FCC ID: 2BGE529G7120X IC ID: 32551-29G7120X

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ATTACHMENT A to ATTACHMENT C as separate supplement

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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
Amendment 1 (March 2019)
Amendment 2 (February 2021) General Requirements and Information for the Certification of Radiocommunication Equipment

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

ANSI C63.10: 2013 Testing Unlicensed Wireless Devices

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

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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.

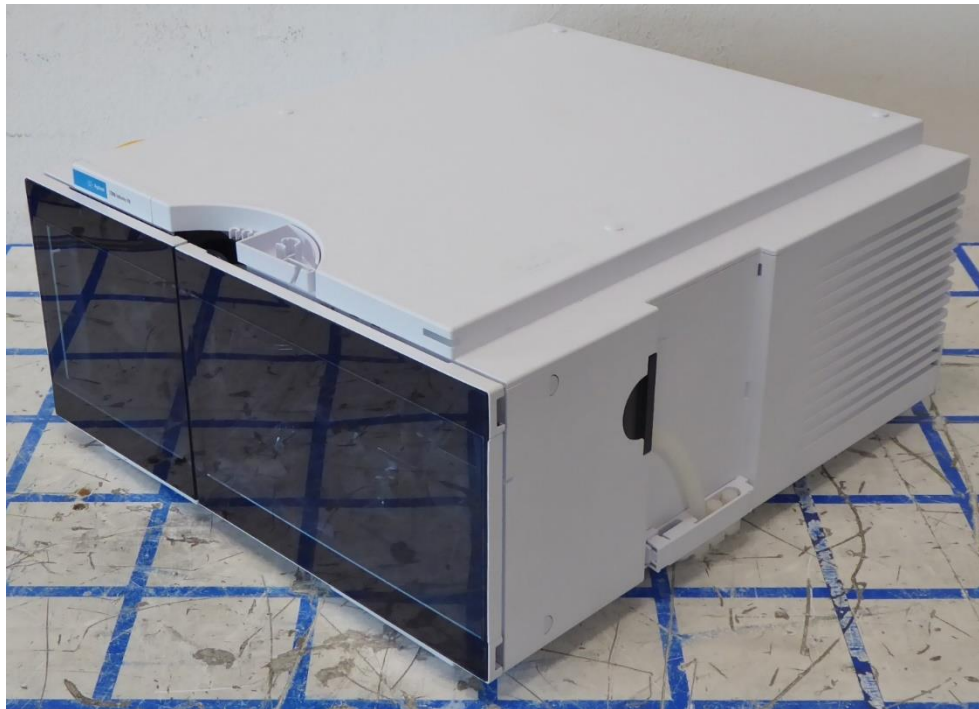
2.3 Photo documentation of the EUT

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 a HPLC Pump which uses high-pressure mixing for UHPLC gradient formation and solvent blending from up to two solvents at pressures up to 1300 bar and flow rates up to 5 mL/min.

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

Number of tested samples: 1
 Serial number: DEBAY06145

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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!

G7132A Bio High-Speed Pump up to 1300bar and flow rates up to 5ml/min with bio compatible material

2.6 EUT operation mode

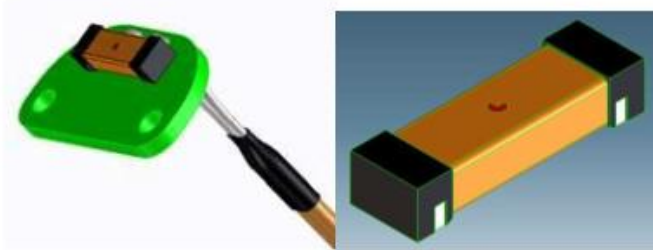
The equipment under test was operated during the measurement under the following conditions:

- 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.

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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 reports

Test report No	Rev.	Issue Date	Changes
80192410-00	0	25 September 2024	Initial test report
80192410-00	1	15 October 2024	Changes in point 2.5 (Variants of the EUT)

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

3.2 FINAL ASSESSMENT

The equipment under test fulfills the EMI requirements cited in clause 1 test standards.

Date of receipt of test sample : acc. to storage records

Testing commenced on : 10 January 2024

Testing concluded on : 05 February 2024

Checked by:

Tested by:

Klaus Gegenfurtner
Teamleader Radio

Josef Knab
Radio Team

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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%	$\pm 2.5 \cdot 10^{-7}$
99% Occupied Bandwidth	Center frequency of EuT	95%	$\pm 2.5 \cdot 10^{-7}$
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

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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".

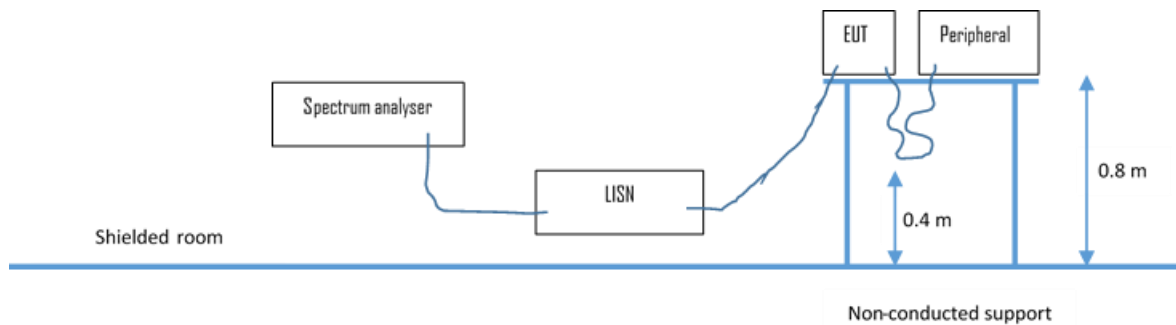
4.5.2.1 Justification

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 μ V, is arrived at by taking the reading directly from the Spectrum analyser. This level is compared to the limit.

To convert between dB μ V and μ V, the following conversions apply:

$$\text{dB}\mu\text{V} = 20(\log \mu\text{V})$$

$$\mu\text{V} = \text{Inverse log}(\text{dB}\mu\text{V}/20)$$

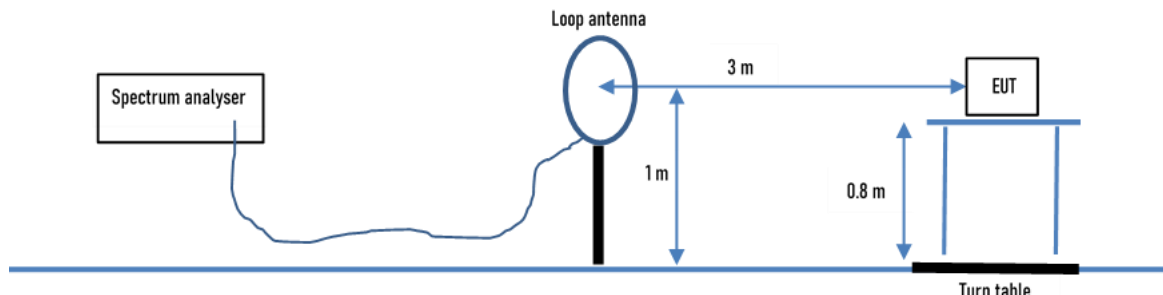
Conducted emissions on the 50 Hz and/or 60 Hz power interface of the EUT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection and a Line Impedance Stabilization Network (LISN) with 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.

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4.5.3.2 Radiated emission

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

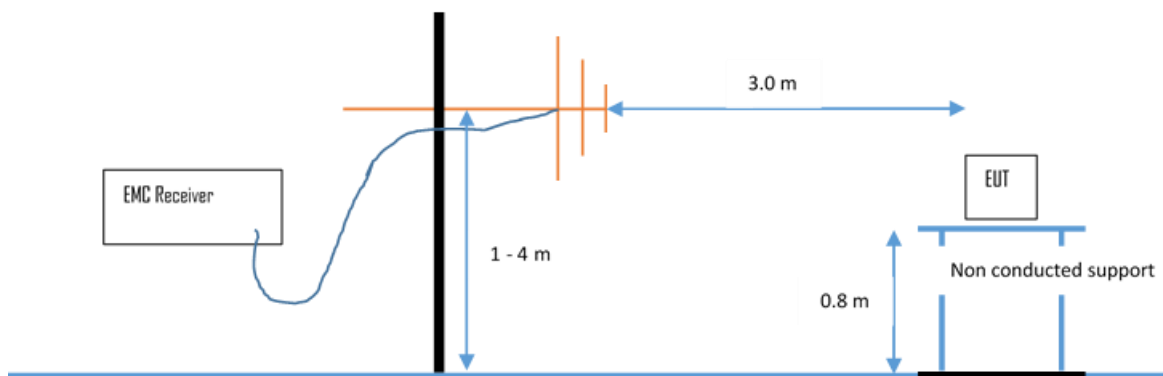
Test setup according ANSI C63.10



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 dBµV/m is calculated by taking the reading from the EMI receiver (Level dBµV) 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 (MHz)	Level (dBµV)	+	Factor (dB)	=	Level (dBµV/m)	-	Limit (dBµV/m)	=	Delta (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 3.7 dB at 501.0 kHz

Limit according to FCC Part 15, Section 15.207:

Limit according to RSS-GEN, Section 8.8:

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	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

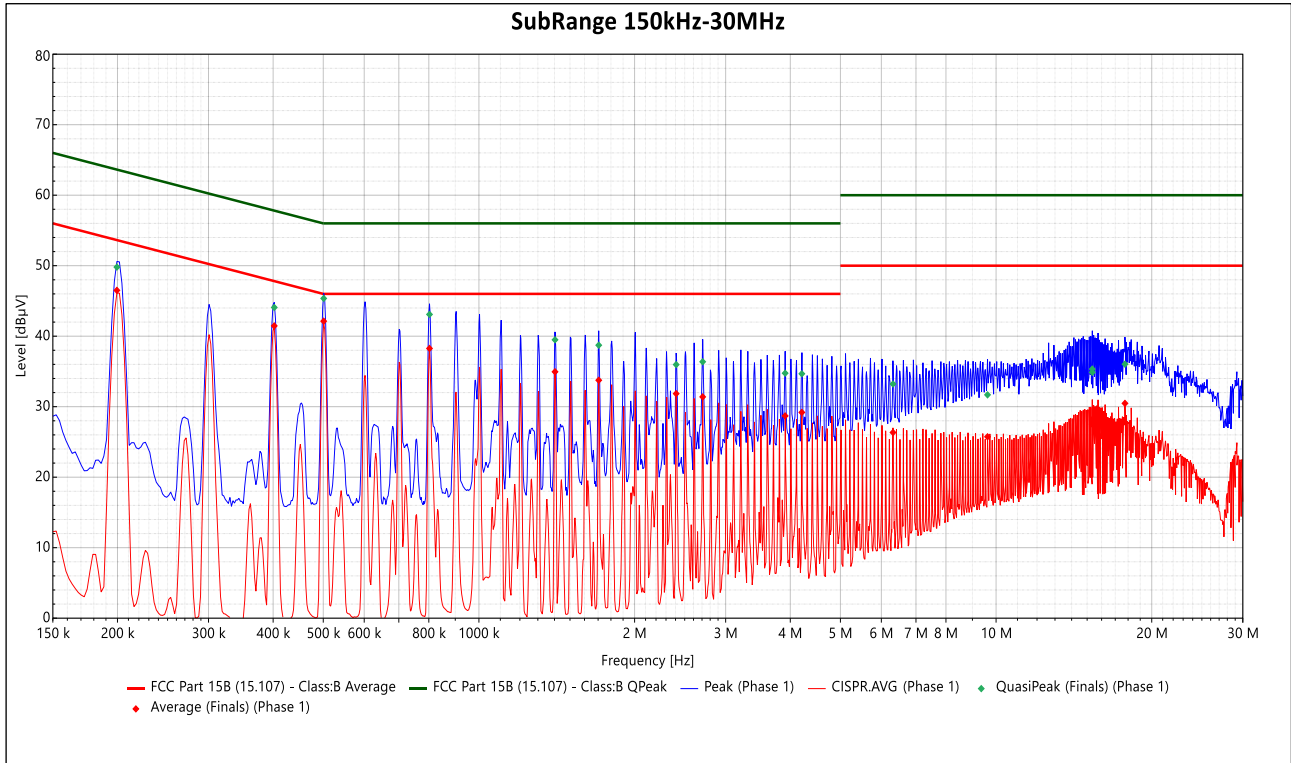
The requirements are **FULFILLED**.

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

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5.1.6 Test protocol

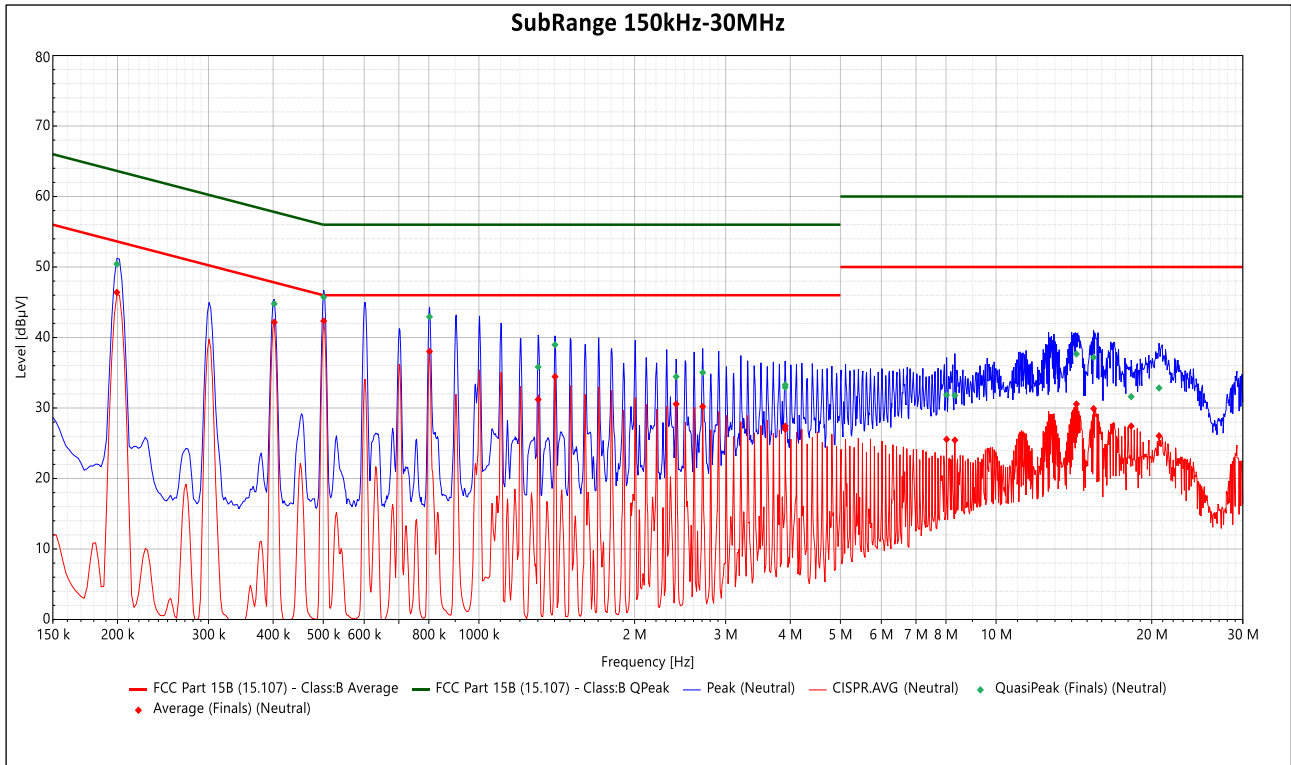
File No.:	80192410-00 Rev_1	Result:	PASS
Operation mode:	Cont. TAG reading at 125 kHz (all antennas are read sequentially)		
Tested by:	KJ	Nexio Version:	2022.0.32.0
Location:	S2	Date:	12.01.2024 09:02:06
Remarks:	Test point L1		



Frequency (Hz)	QuasiPeak (dBµV)	QP Margin	QP Limit (dBµV)	Average (dBµV)	AV Margin	AV Limit (dBµV)	Line	Correction (dB)
199.5 k	49.797	13.834	63.631	46.496	7.136	53.631	Phase 1	9000
402 k	44.08	13.732	57.812	41.462	6.35	47.812	Phase 1	9000
501 k	45.361	10.639	56	42.135	3.865	46	Phase 1	9000
802.5 k	43.087	12.913	56	38.258	7.742	46	Phase 1	9000
1.40325 M	39.488	16.512	56	34.947	11.053	46	Phase 1	9000
1.70475 M	38.715	17.285	56	33.75	12.25	46	Phase 1	9000
2.40675 M	35.973	20.027	56	31.849	14.151	46	Phase 1	9000
2.70825 M	36.367	19.633	56	31.39	14.61	46	Phase 1	9000
3.90975 M	34.752	21.248	56	28.688	17.312	46	Phase 1	9000
4.21125 M	34.665	21.335	56	29.192	16.808	46	Phase 1	9000
6.3195 M	33.218	26.782	60	26.34	23.66	50	Phase 1	9000
9.627 M	31.677	28.323	60	25.727	24.273	50	Phase 1	9000
15.3465 M	35.337	24.663	60	27.519	22.481	50	Phase 1	9000
15.34875 M	34.869	25.131	60	28.184	21.816	50	Phase 1	9000
17.75175 M	36.03	23.97	60	30.468	19.532	50	Phase 1	9000

FCC ID: 2BGE529G7120X IC ID: 32551-29G7120X

File No.:	80192410-00 Rev_1	Result:	PASS
Operation mode:	Cont. TAG reading at 125 kHz (all antennas are read sequentially)		
Tested by:	KJ	Nexio Version:	2022.0.32.0
Location:	S2	Date:	12.01.2024 09:02:06
Remarks:	Test point N		



Frequency (Hz)	QuasiPeak (dBµV)	QP Margin	QP Limit (dBµV)	Average (dBµV)	AV Margin	AV Limit (dBµV)	Line	Correction (dB)
199.5 k	50.424	13.207	63.631	46.401	7.23	53.631	Neutral	9000
402 k	44.783	13.029	57.812	42.16	5.652	47.812	Neutral	9000
501 k	45.732	10.268	56	42.333	3.667	46	Neutral	9000
802.5 k	42.934	13.066	56	38.024	7.976	46	Neutral	9000
1.302 M	35.819	20.181	56	31.198	14.802	46	Neutral	9000
1.40325 M	38.973	17.027	56	34.447	11.553	46	Neutral	9000
2.40675 M	34.453	21.547	56	30.564	15.436	46	Neutral	9000
2.70825 M	35.032	20.968	56	30.202	15.798	46	Neutral	9000
3.90975 M	32.929	23.071	56	26.998	19.002	46	Neutral	9000
3.912 M	33.294	22.706	56	27.42	18.58	46	Neutral	9000
8.02275 M	31.861	28.139	60	25.56	24.44	50	Neutral	9000
8.32425 M	31.782	28.218	60	25.442	24.558	50	Neutral	9000
14.3025 M	37.668	22.332	60	30.563	19.437	50	Neutral	9000
15.43875 M	37.179	22.821	60	29.911	20.089	50	Neutral	9000
18.25125 M	31.613	28.387	60	27.426	22.574	50	Neutral	9000
20.661 M	32.842	27.158	60	26.054	23.946	50	Neutral	9000

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

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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 (kHz)	Level (dB μ V)	Ant. factor (dB 1/m)	Field strength dB(μ V/m)
125.00	56	18.0	74.0

- b) Result extrapolated to a distance of 300 m

Frequency (kHz)	Field strength dB(μ V/m) @3m	Extrapolation factor (dB)	Field strength dB(μ V/m) @300m	Limit dB(μ V/m)	Delta (dB)
125.00	74.0	-80.0	-6.0	25.7	-31.7

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

Frequency (kHz)	Field strength of fundamental wave (μ V/m)	Field strength of fundamental wave dB(μ V/m)	Measurement distance (metres)
125	19.2	25.7	300

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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	4.5	18.0	22.5

b) Result extrapolated to a distance of 300 m

Frequency (kHz)	Field strength dB(µA/m) @3m	Extrapolation factor (dB)	Field strength dB(µA/m) @300m	Limit dB(µA/m)	Delta (dB)
125	22.5	-80.0	-57.5	-25.9	-31.7

Limit according to RSS-GEN, Section 8.9:

Frequency (kHz)	Field strength of fundamental wave (µA/m)	dB(µA/m)	Measurement distance (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.

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

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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

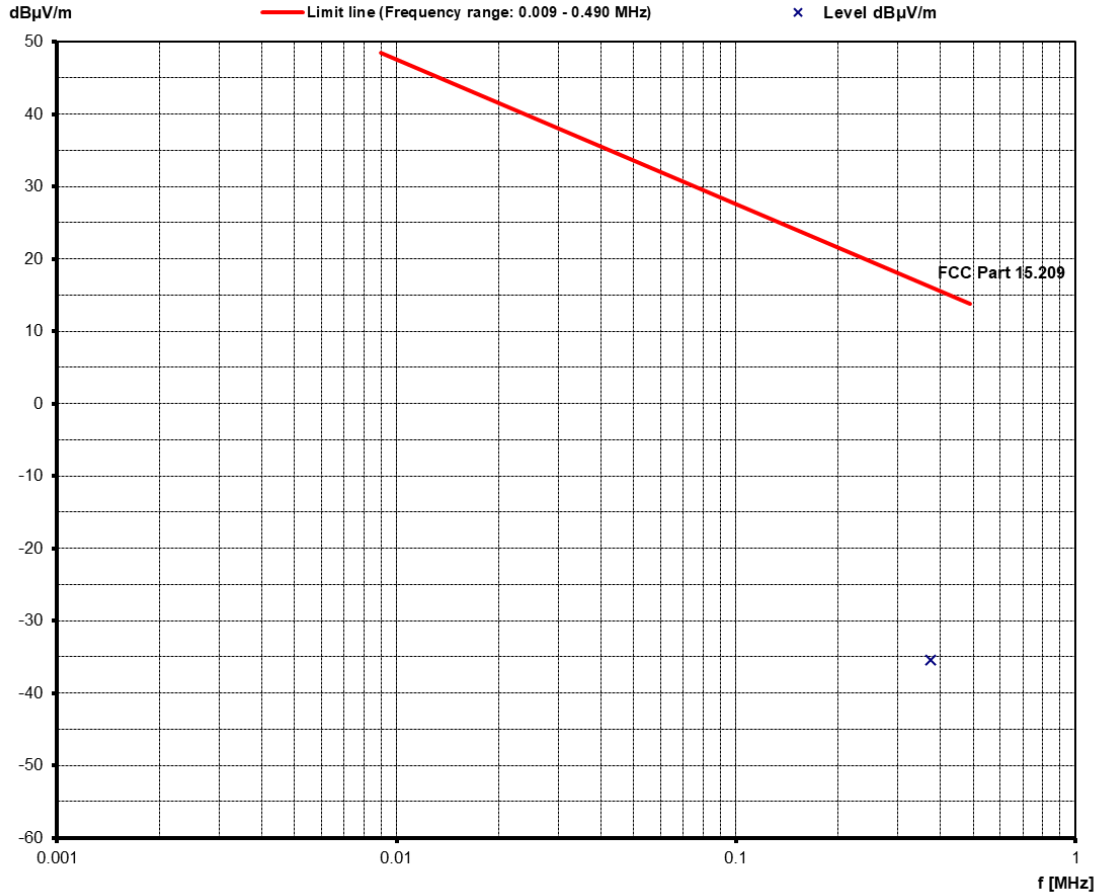
Detector: QP (In frequency range 9-90 kHz and 110-490 kHz a linear average detector is used)

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

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5.3.5 Test result < 30MHz accd. to FCC

Frequency (kHz)	Level @3m (dBµV)	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)
375.00	27.6	16.9	44.5	-80.0	-35.5	16.1	-51.6

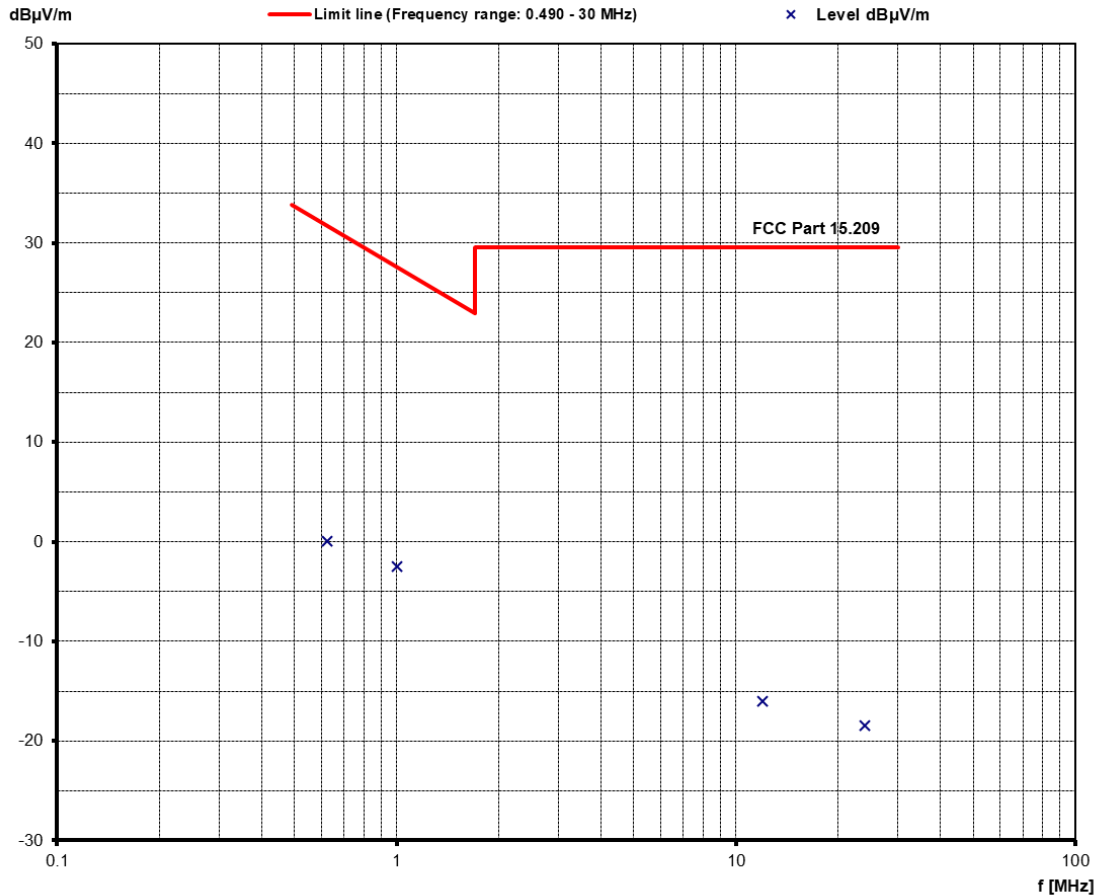


The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

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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)
625.07	21.6	18.5	40.1	-40.0	0.1	31.7	-31.6
875.07	19.3	18.2	37.5	-40.0	-2.5	27.6	-30.1
12000*	6.4	17.6	24.0	-40.0	-16.0	29.5	-45.5
24000*	3.5	18.0	21.5	-40.0	-18.5	29.5	-48.0

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

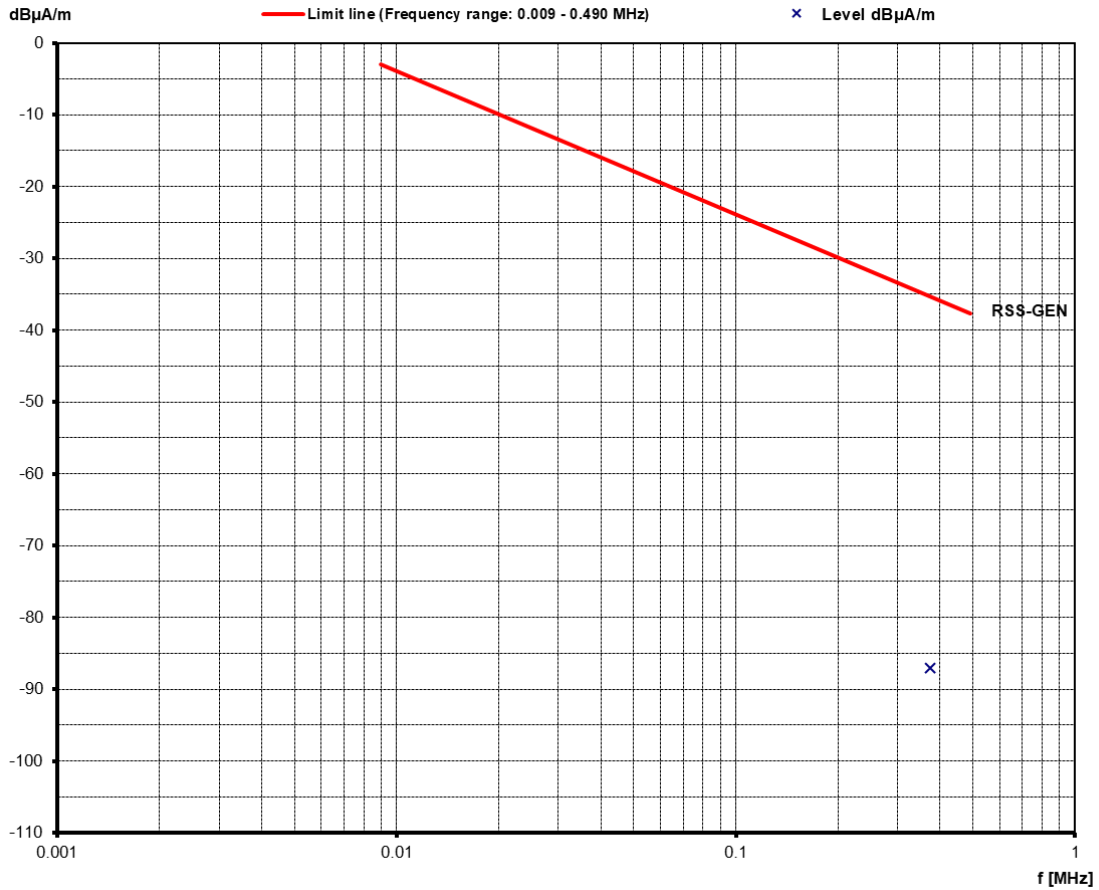


The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

FCC ID: 2BGE529G7120X IC ID: 32551-29G7120X

5.3.6 Test result < 30MHz accd. to RSS

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	-23.9	16.9	-7.0	-80.0	-87.0	-35.4	-51.6

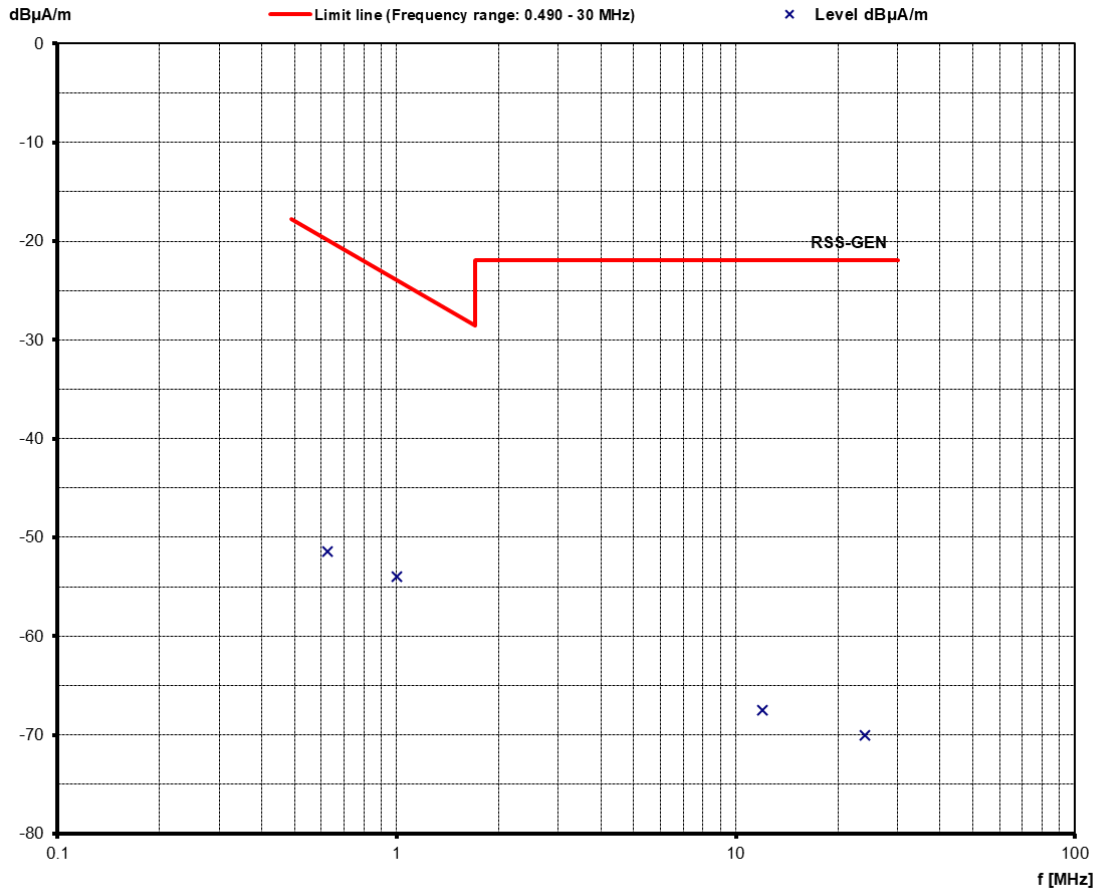


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Frequency (kHz)	Level @3m (dBμA)	Ant. factor (dB 1/m)	Field strength @3m dB(μA/m)	Extrapolation factor @30m (dB)	Field strength level @30m dB(μA/m)	Limit dB(μA/m)	Delta (dB)
625.70	-29.9	18.5	-11.4	-40.0	-51.4	-19.8	-31.6
875.07	-32.2	18.2	-14.0	-40.0	-54.0	-22.8	-31.2
12000*	-45.1	17.6	-27.5	-40.0	-67.5	-21.9	-45.6
24000*	-48.0	18.0	-30.0	-40.0	-70.0	-21.9	-48.1

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



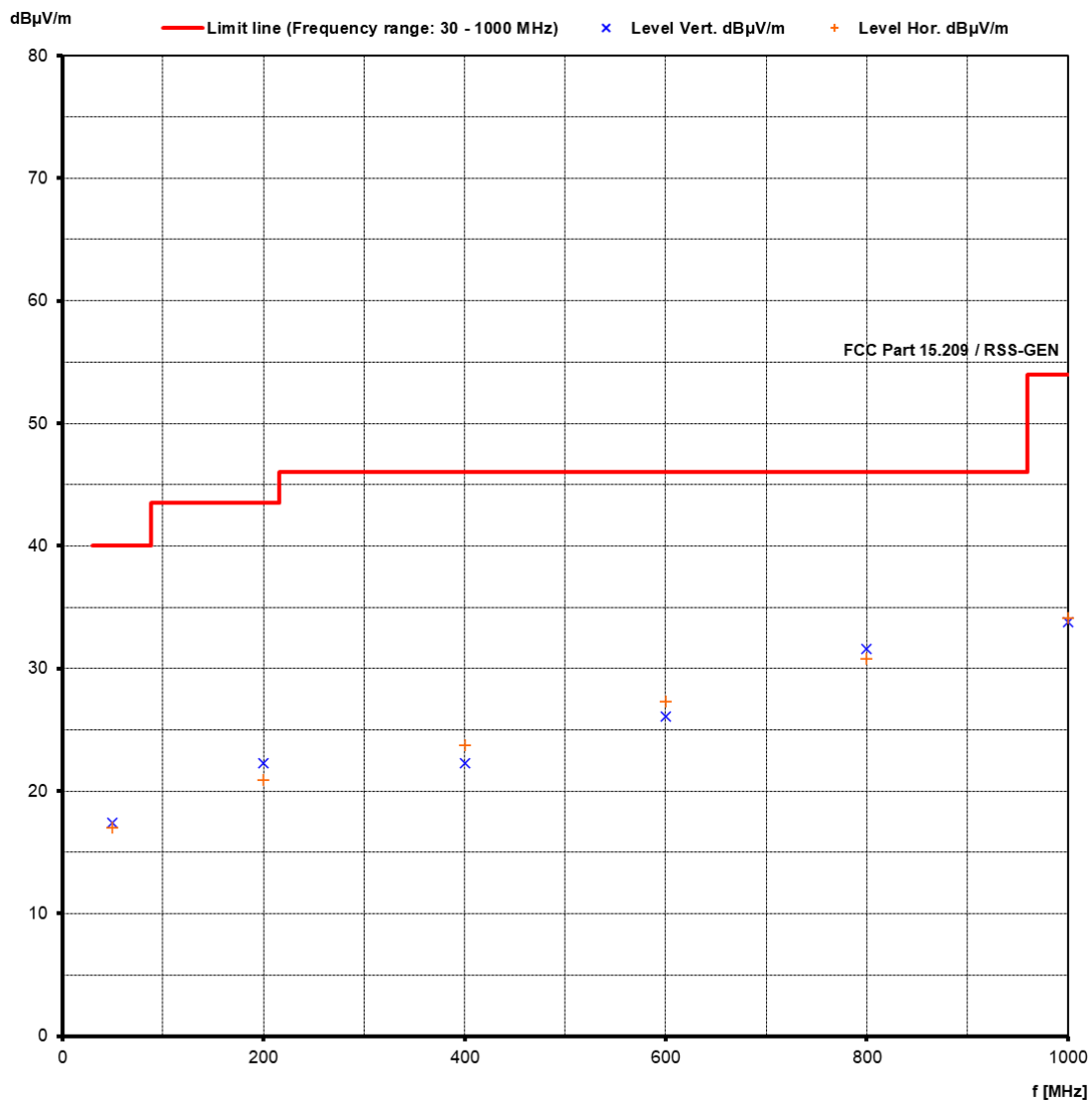
The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

FCC ID: 2BGE529G7120X IC ID: 32551-29G7120X

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*	-0.2	-1.8	17.6	18.8	17.4	17.0	40.0	-22.6
200*	5.3	4.4	17.0	16.5	22.3	20.9	43.5	-21.2
400*	-1.0	0.1	23.3	23.6	22.3	23.7	46.0	-22.3
600*	-2.2	-1.3	28.3	28.6	26.1	27.3	46.0	-18.7
800*	0.0	-1.1	31.6	31.9	31.6	30.8	46.0	-14.4
1000*	-0.2	-0.3	34.0	34.4	33.8	34.1	54.0	-19.9

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



The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

FCC ID: 2BGE529G7120X IC ID: 32551-29G7120X

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

Frequency (MHz)	Field strength of spurious emissions		Measurement distance (metres)
	(μ V/m)	dB(μ V/m)	
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 (MHz)	Field strength of spurious emissions		Measurement distance (metres)
	(μ A/m)	dB(μ A/m)	
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 (MHz)	Field strength of spurious emissions		Measurement distance (metres)
	(μ V/m)	dB(μ V/m)	
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.

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

FCC ID: 2BGE529G7120X IC ID: 32551-29G7120X

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

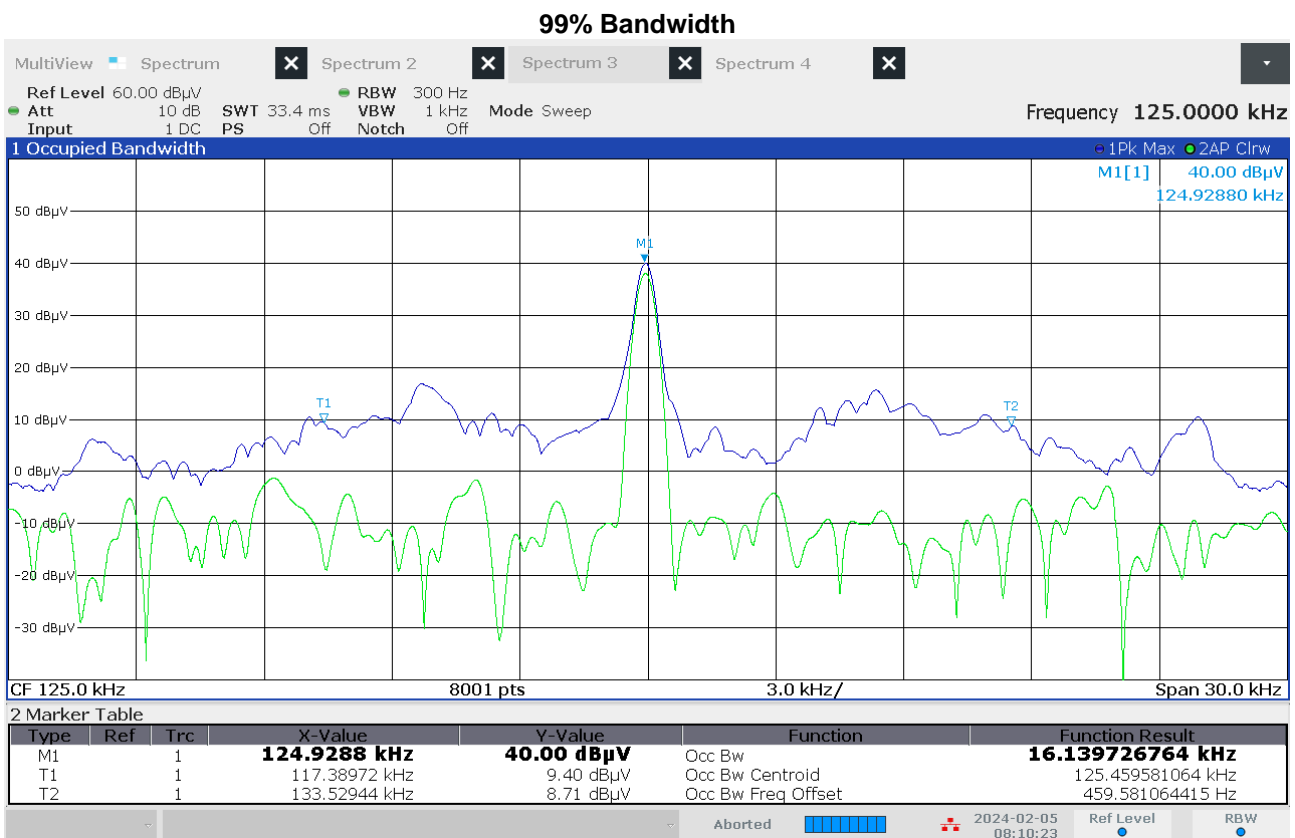
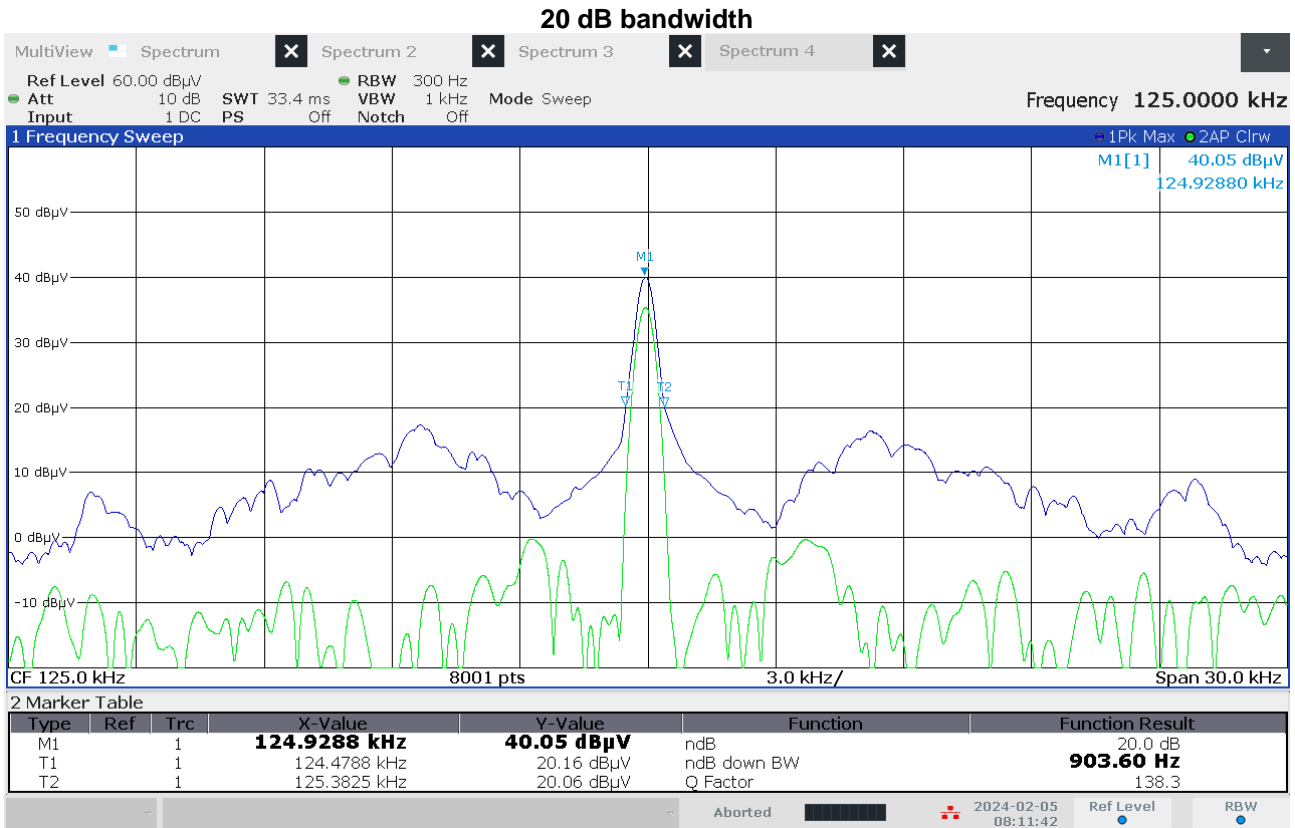
Measured Bandwidth	result (kHz)	Limit (kHz)
20dB	0.9036	--
99%	16.1397	--

The requirements are **FULFILLED**.

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

FCC ID: 2BGE529G7120X IC ID: 32551-29G7120X

5.4.5 Test protocol



FCC ID: 2BGE529G7120X IC ID: 32551-29G7120X

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				

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.