



FCC TEST REPORT FCC 47 CFR Part 15C Industry Canada RSS-210 Digital transmission systems operating within the 902 – 928 MHz band	
Report Reference No.	G0M-1407-3996-TFC247DT-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	  A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A
Applicant's name	Dräger Safety AG & Co. KGaA
Address	Revalstraße 1 23560 Lübeck GERMANY
Test specification:	
Standard	47 CFR Part 15C KDB Publication No. 558074 RSS-210, Issue 8, 2010-12 RSS-Gen, Issue 3, 2010-12 ANSI C63.4:2009
Equipment under test (EUT):	
Product description	Portable Alarm Amplifier
Model No.	AAC 00xx
Additional Model(s)	None
Brand Name(s)	Draeger X-zone 5500
Hardware version	8324825
Firmware / Software version	2.24
	FCC-ID: X6O-AAC00XX IC: 5895F-AAC00XX
Test result	Passed

Possible test case verdicts:

- neither assessed nor tested: N/N
- required by standard but not appl. to test object.....: N/A
- required by standard but not tested.....: N/T
- not required by standard for the test object: N/R
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

Testing:

Test Lab Temperature.....: 20 – 23 °C

Test Lab Humidity: 32 – 38 %

Date of receipt of test item: 2014-07-14

Date (s) of performance of tests: 2014-08-12

Compiled by: Christian Weber

Tested by (+ signature).....: Christian Weber
 (Responsible for Test)

Approved by (+ signature): Toralf Jahn

Date of issue: 2014-09-01

Total number of pages: 55

C. Weber

T. Jahn

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional comments:

Version History

Version	Issue Date	Remarks	Revised by
01	2014-09-01	Initial Release	

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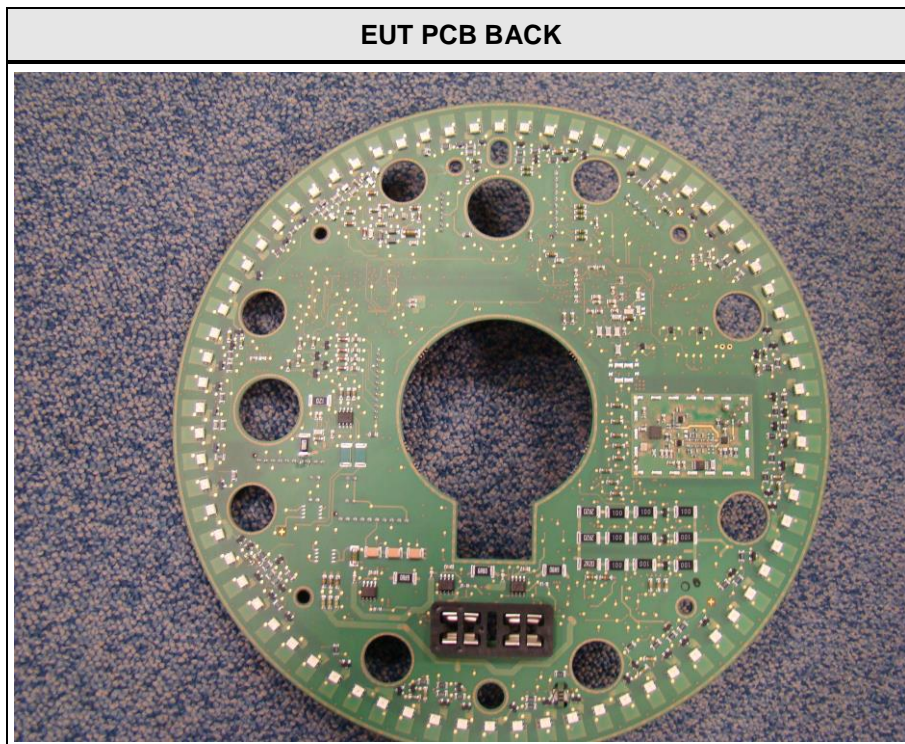
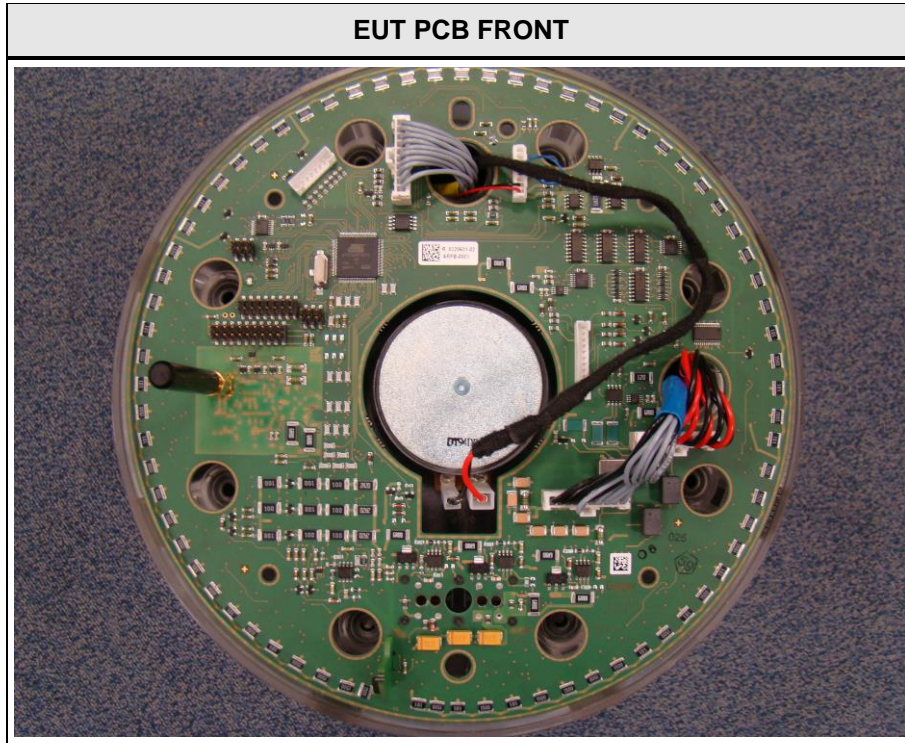
1 Equipment (Test item) Description

Description	Portable Alarm Amplifier	
Model	AAC 00xx	
Additional Model(s)	None	
Brand Name(s)	Draeger X-zone 5500	
Serial number	ARFH-0042	
Hardware version	8324825	
Software / Firmware version	2.24	
FCC-ID	X6O-AAC00XX	
IC	5895F-AAC00XX	
Equipment type	Radio module	
Radio type	Transceiver	
Radio technology	custom	
Operating frequency range	917 - 926 MHz	
Assigned frequency band	902 - 928 MHz	
Frequency range	F _{LOW}	917 MHz
	F _{MID}	921.5 MHz
	F _{HIGH}	926 MHz
Spreading	None	
Modulations	FSK	
Number of antennas	1	
Antenna	Type	integrated
	Gain	+1.0 dBi
Manufacturer	Dräger Safety AG & Co. KGaA Revalstraße 1 23560 Lübeck GERMANY	
Power supply	V _{NOM}	6.0 VDC
	V _{MIN}	N/A
	V _{MIN}	N/A
AC/DC-Adaptor	Model	N/A
	Vendor	N/A
	Input	N/A
	Output	N/A

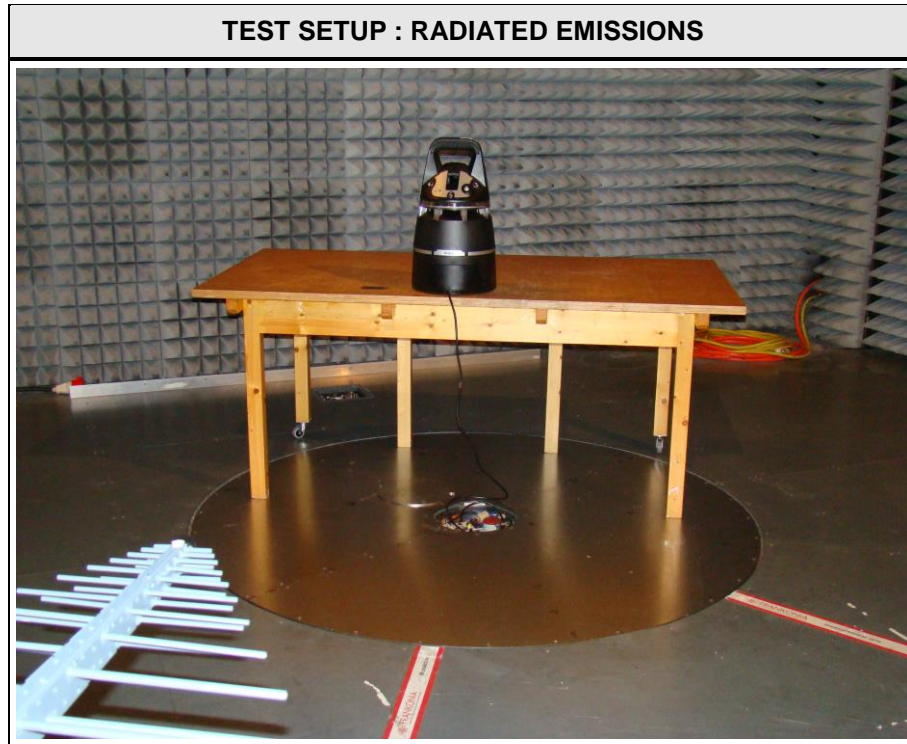
1.1 Photos – Equipment External



1.2 Photos – Equipment internal



1.3 Photos – Test setup



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
None				
<p>*Note: Use the following abbreviations:</p> <p style="padding-left: 40px;">AE : Auxiliary/Associated Equipment, or</p> <p style="padding-left: 40px;">SIM : Simulator (Not Subjected to Test)</p> <p style="padding-left: 40px;">CABL : Connecting cables</p>				

1.5 Test Modes

Mode #	Description	
Single	General conditions:	EUT powered by laboratory power supply
	Radio conditions:	Mode = standalone transmit Spreading = None Modulation = FSK Duty cycle = 100 % Power level = Maximum

1.6 Test Equipment Used During Testing

Measurement Software			
Description	Manufacturer	Name	Version
EMC Test Software	Dare Instruments	Radimation	2014.1.15

Occupied Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2014-02	2015-02

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	-	-
Spectrum Analyzer	R&S	FSIQ26	EF00242	2014-03	2015-03
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00187	2014-03	2017-03
LPD Antenna	R&S	HL 025	EF00327	2013-02	2016-02

Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dB μ V. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dB μ V/m). The FCC limits are given in units of μ V/m. The following formula is used to convert the units of μ V/m to dB μ V/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:


$$\begin{array}{rclcl} \text{Reading} & + & \text{AF} & = & \text{Net Reading} & : & \text{Net reading} - \text{FCC limit} & = & \text{Margin} \\ 21.5 \text{ dB}\mu\text{V} & + & 26 \text{ dB} & = & 47.5 \text{ dB}\mu\text{V/m} & : & 47.5 \text{ dB}\mu\text{V/m} - 57.0 \text{ dB}\mu\text{V/m} & = & -9.5 \text{ dB} \end{array}$$

2 Result Summary

FCC 47 CFR Part 15C, IC RSS-210				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
RSS-Gen 4.6.1	Occupied Bandwidth	RSS-Gen 4.6.1	N/R	Informational only
FCC § 15.247(a)(2) IC RSS-210 § A8.2	6 dB Bandwidth	KDB Publication No. 558074	N/N	
FCC § 15.247(b)(3) IC RSS-210 § A8.4	Maximum peak conducted power	KDB Publication No. 558074	N/N	
FCC § 15.247(e) IC RSS-210 § A8.2	Power spectral density	KDB Publication No. 558074	N/N	
47 CFR 15.207 RSS-Gen 7.2.4	AC power line conducted emissions	KDB Publication No. 558074 / ANSI C63.4	N/N	
FCC § 15.247(d) IC RSS-210 § A8.5	Band edge compliance	KDB Publication No. 558074	N/N	
FCC § 15.247(d) IC RSS-210 § A8.5	Conducted spurious emissions	KDB Publication No. 558074	N/N	
FCC § 15.247(d) FCC § 15.209 IC RSS-210 A8.5 IC RSS-Gen 4.9 IC RSS-Gen 7.2.5	Transmitter radiated spurious emissions	KDB Publication No. 558074 / ANSI C 63.4	PASS	
IC RSS-Gen 4.10 IC RSS-Gen 6.1	Receiver radiated spurious emissions	ANSI C 63.4	N/N	
Remarks:				

3 Test Conditions and Results

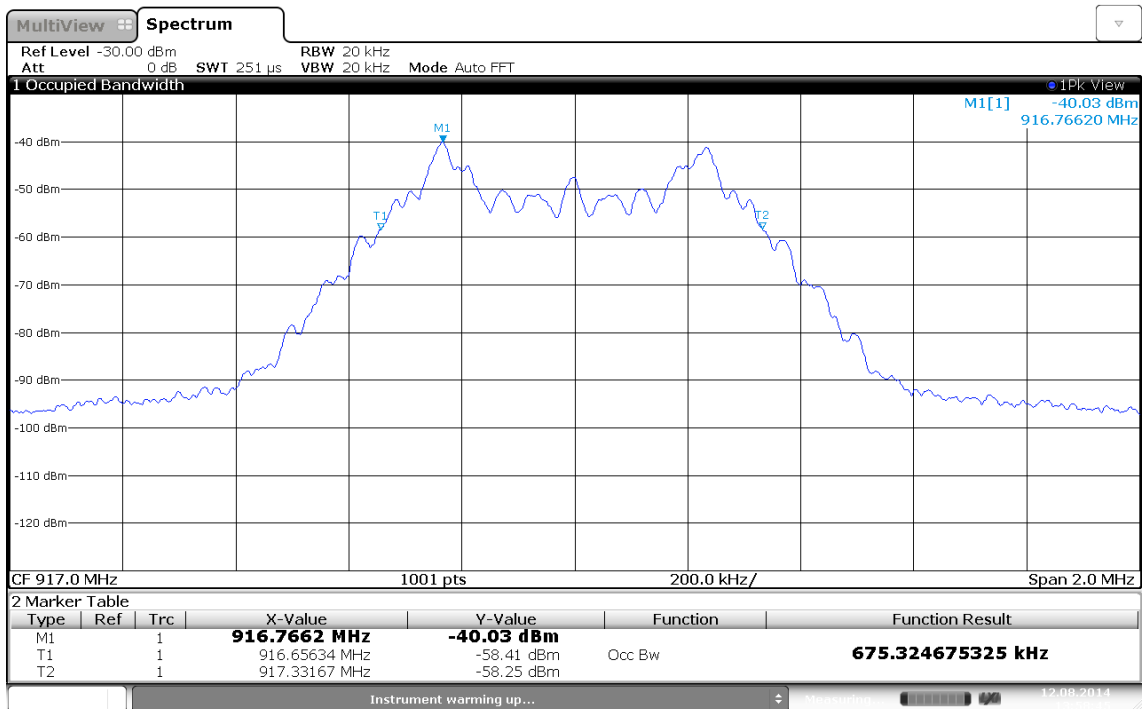
3.1 Test Conditions and Results – Occupied Bandwidth

Occupied Bandwidth acc. IC RSS-Gen		Verdict: PASS
Test according to measurement reference	Reference Method	
	RSS-Gen 4.6.1	
Test frequency range	Tested frequencies	
	$F_{LOW} / F_{MID} / F_{HIGH}$	
EUT test mode	Single	
Limits		
None (Informational only)		
Test setup		
 <pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] </pre>		
Test procedure		
<ol style="list-style-type: none"> EUT set to test mode (Communication tester is used if needed) Span set to at least twice the emission spectrum Resolution bandwidth set to 1 % of span Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function 		
Test results		
Channel	Frequency [MHz]	Occupied Bandwidth [kHz]
F_{LOW}	917	675.33
F_{MID}	921.5	655.35
F_{HIGH}	926	671.33
Comments:		

Occupied Bandwidth – F_{Low}
Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1407-3996

Applicant: Dräger Safety AG & Co. KGaA
 EUT Name: Portable Alarm Amplifier
 Model: AAC 00XX
 Test Site: Eurofins Product Service GmbH
 Operator: Christian Weber
 Test Conditions: Tnom / Vnom
 Mode: Tx, FSK, 917 MHz, 125 kbps
 Test Date: 2014-08-12
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW= 675.33 kHz

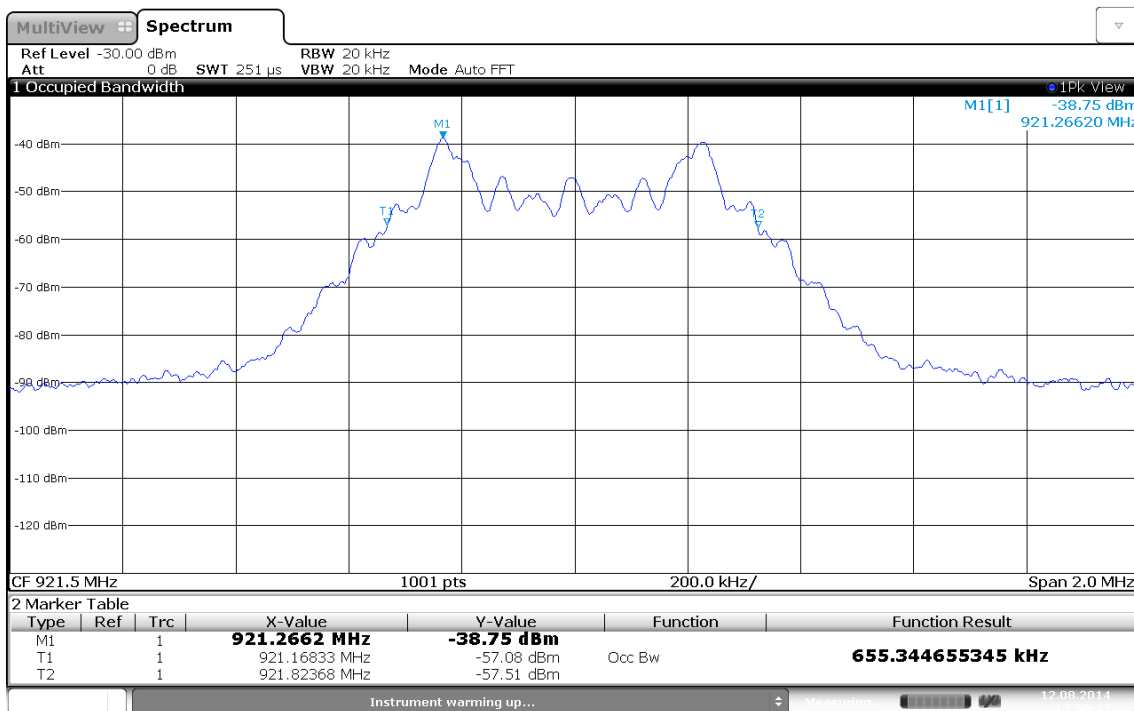


Occupied Bandwidth – F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1407-3996

Applicant: Dräger Safety AG & Co. KGaA
 EUT Name: Portable Alarm Amplifier
 Model: AAC 00XX
 Test Site: Eurofins Product Service GmbH
 Operator: Christian Weber
 Test Conditions: Tnom / Vnom
 Mode: Tx, FSK, 921.5 MHz, 125 kbps
 Test Date: 2014-08-12
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW= 655.35 kHz



Occupied Bandwidth – F_{HIGH}

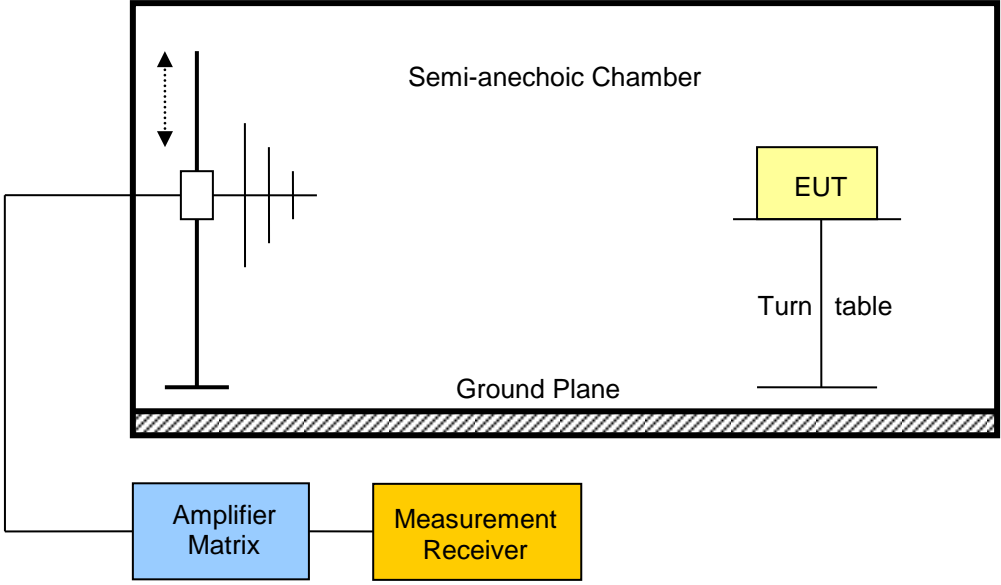
Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1407-3996

Applicant: Dräger Safety AG & Co. KGaA
 EUT Name: Portable Alarm Amplifier
 Model: AAC 00XX
 Test Site: Eurofins Product Service GmbH
 Operator: Christian Weber
 Test Conditions: Tnom / Vnom
 Mode: Tx, FSK, 926 MHz, 125 kbps
 Test Date: 2014-08-12
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW= 671.33 kHz



3.2 Test Conditions and Results – Transmitter radiated emissions

Transmitter radiated emissions acc. FCC 47 CFR 15.247 / IC RSS-210			Verdict: PASS	
Test according referenced standards	Reference Method			
	FCC 15.247(d) / IC RSS-210 A8.5			
Test according to measurement reference	Reference Method			
	FCC KDB Publication No. 558074 / ANSI C63.4			
Test frequency range	Tested frequencies			
	30 MHz – 10 th Harmonic			
EUT test mode	Single			
Limits				
Frequency range [MHz]	Detector	Limit [μ V/m]	Limit [dB μ V/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
<p>Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).</p> <p>When average radiated emission measurements are specified, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.</p>				
Test setup				
 <p>The diagram illustrates the test setup. A Semi-anechoic Chamber is shown with a Ground Plane at the bottom. Inside the chamber, an Amplifier Matrix is connected to a Measurement Receiver. The EUT (Equipment Under Test) is placed on a Turn table. The chamber is labeled 'Semi-anechoic Chamber' and 'Ground Plane'.</p>				

Test procedure

1. EUT set to test mode (Communication tester is used if needed)
2. Span it set according to measurement range
3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz
4. Markers are set to peak emission levels within restricted bands

Test results – Internal Antenna

Channel	Frequency [MHz]	Emission [MHz]	Level [dB μ V/m]	Detector	Pol.	Limit [dB μ V/m]	Limit distance [m]*	Margin [dB]
F _{LOW}	917	1834	46.99	pk	hor	95.00	3	-48.01
F _{LOW}	917	1834	59.49	pk	ver	95.00	3	-35.51
F _{LOW}	917	2746	43.51	pk	hor	74.00	3	-30.49
F _{LOW}	917	2750	52.44	pk	ver	74.00	3	-21.56
F _{LOW}	917	2750	46.23	avg	ver	54.00	3	-07.77
F _{LOW}	917	3664	44.33	pk	hor	74.00	3	-29.67
F _{LOW}	917	3664	51.27	pk	ver	74.00	3	-22.73
F _{MID}	921.5	1840	47.30	pk	hor	95.00	3	-47.70
F _{MID}	921.5	1840	61.95	pk	ver	95.00	3	-33.05
F _{MID}	921.5	2758	43.66	pk	hor	74.00	3	-30.34
F _{MID}	921.5	2764	45.69	pk	ver	74.00	3	-28.31
F _{MID}	921.5	2764	37.90	avg	ver	54.00	3	-16.10
F _{MID}	921.5	3682	44.02	pk	hor	74.00	3	-29.98
F _{MID}	921.5	3682	52.06	pk	ver	74.00	3	-21.94
F _{HIGH}	926	928	69.44	pk	ver	95.00	3	-25.56
F _{HIGH}	926	928.144	75.33	pk	hor	95.00	3	-19.67
F _{HIGH}	926	1852	48.31	pk	hor	95.00	3	-46.69
F _{HIGH}	926	1852	62.88	pk	ver	95.00	3	-32.12
F _{HIGH}	926	2776	44.55	pk	hor	74.00	3	-29.45
F _{HIGH}	926	2777	52.74	pk	ver	74.00	3	-21.26
F _{HIGH}	926	2777	46.28	avg	ver	54.00	3	-07.72
F _{HIGH}	926	3700	43.63	pk	hor	74.00	3	-30.37
F _{HIGH}	926	3700	51.96	pk	ver	74.00	3	-22.04

Comments: * Physical distance between EUT and measurement antenna.

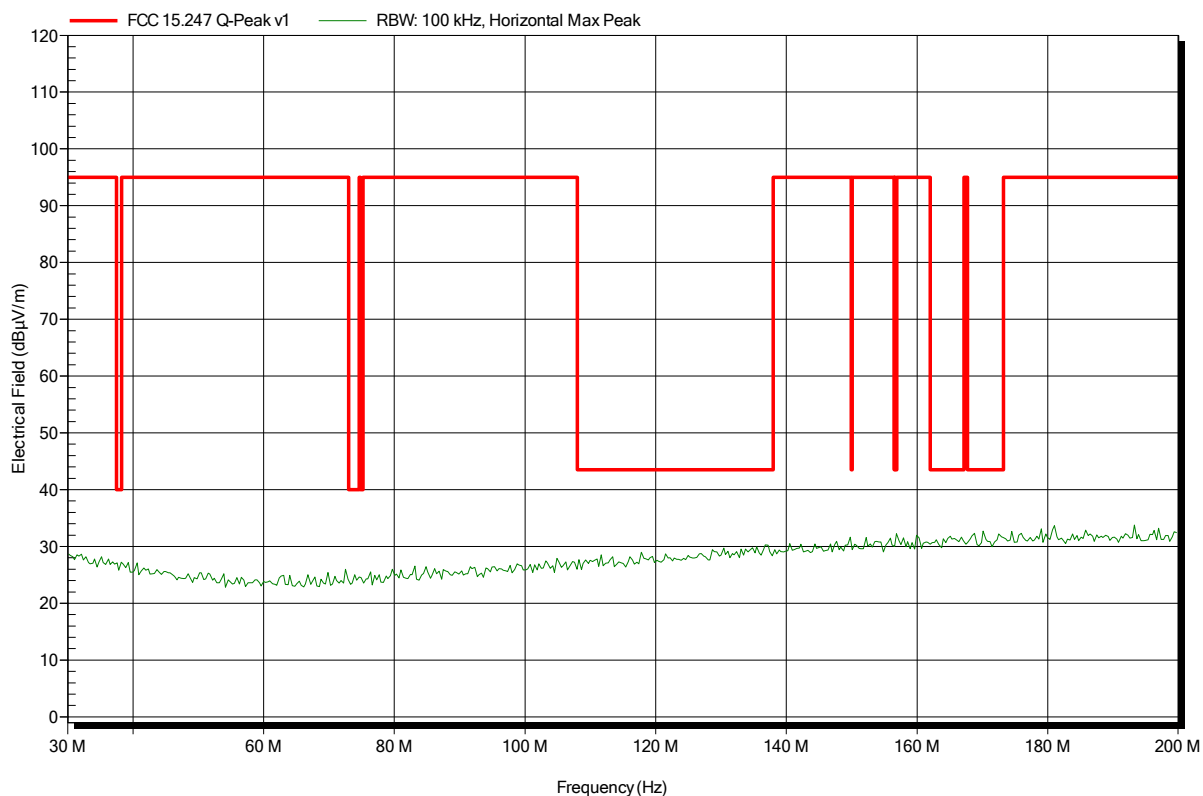
ANNEX A Transmitter radiated spurious emissions

Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 917 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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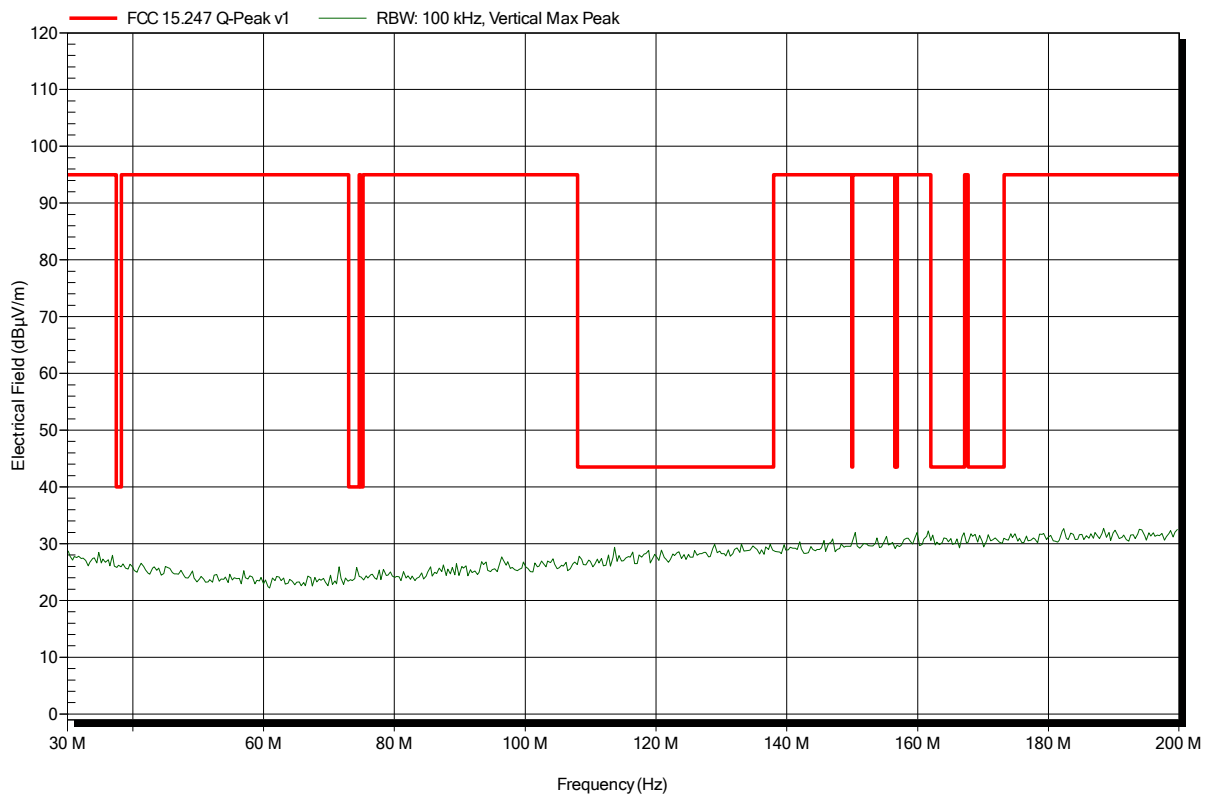


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EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 917 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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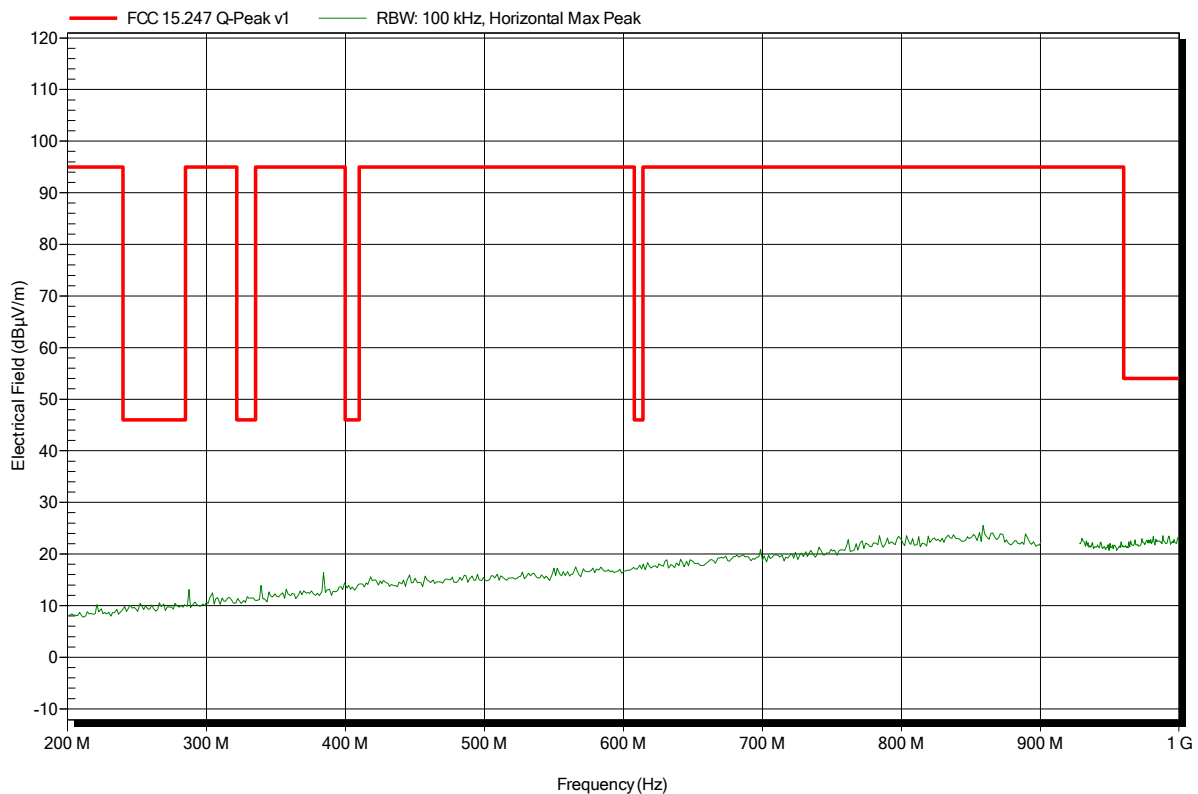


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Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 917 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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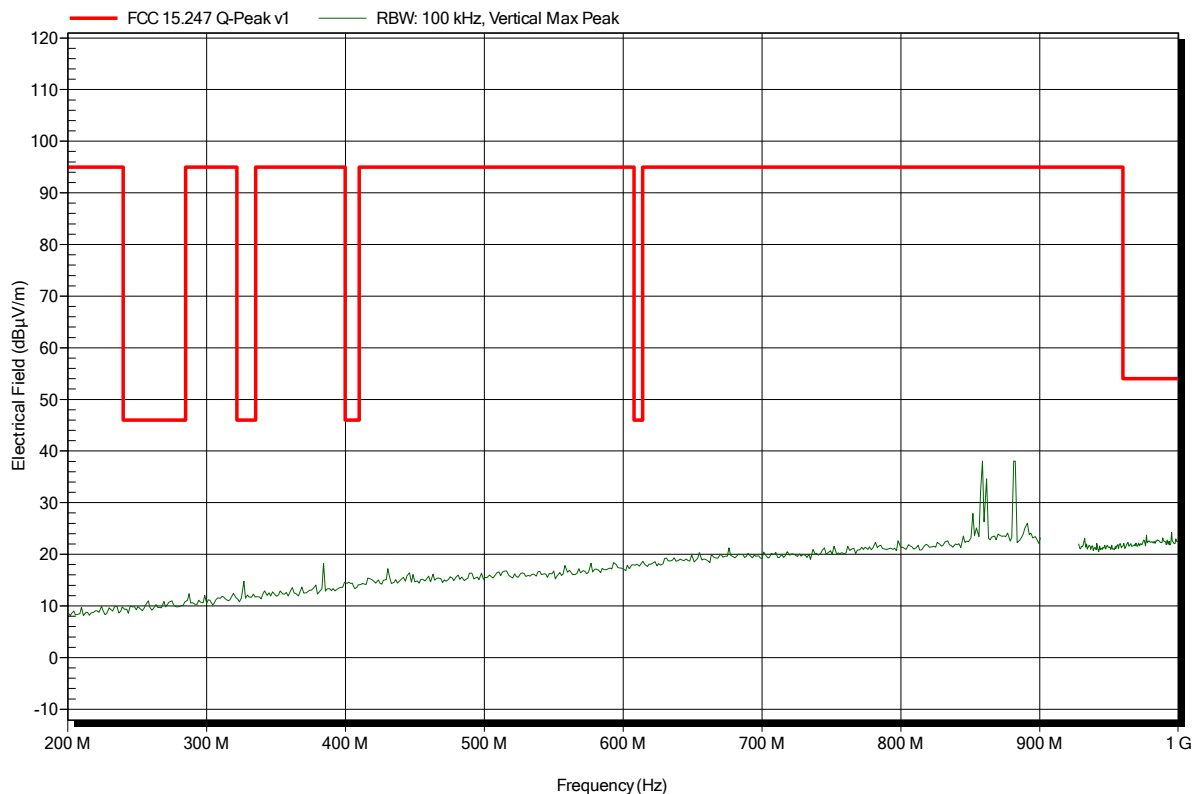


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EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 917 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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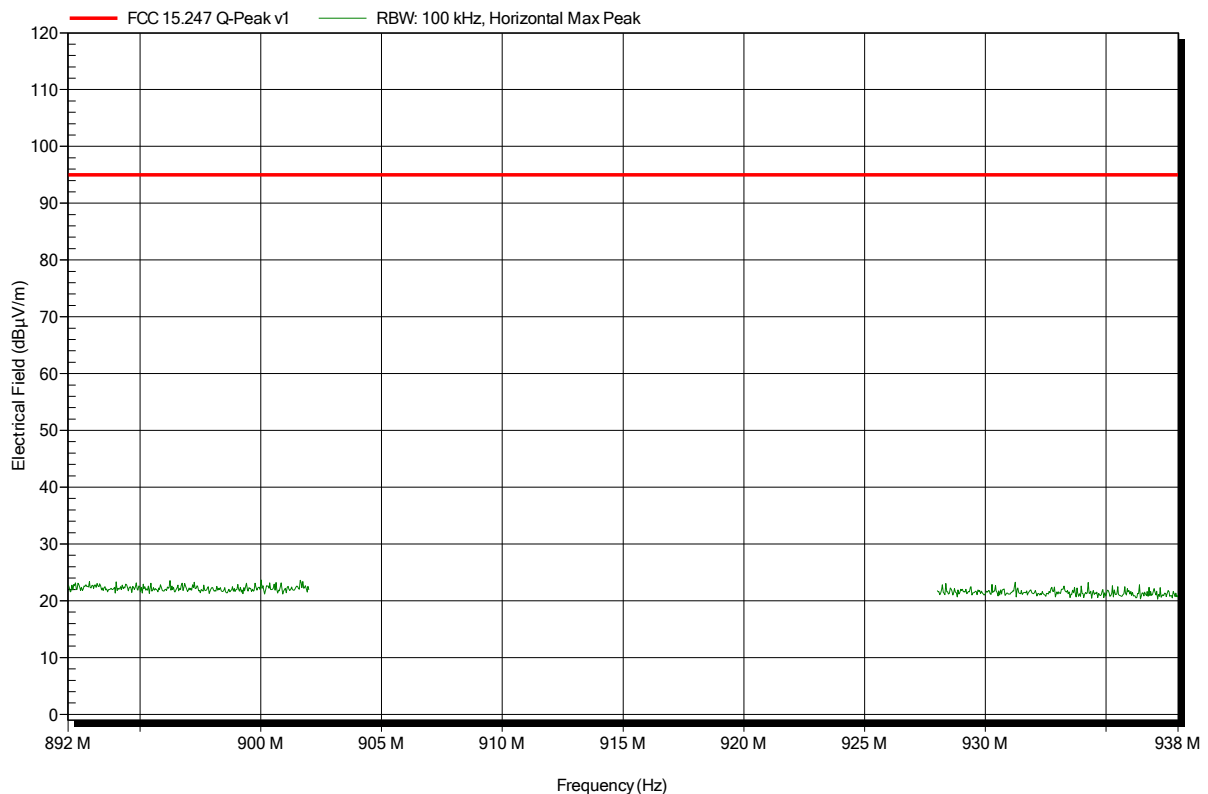


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Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 917 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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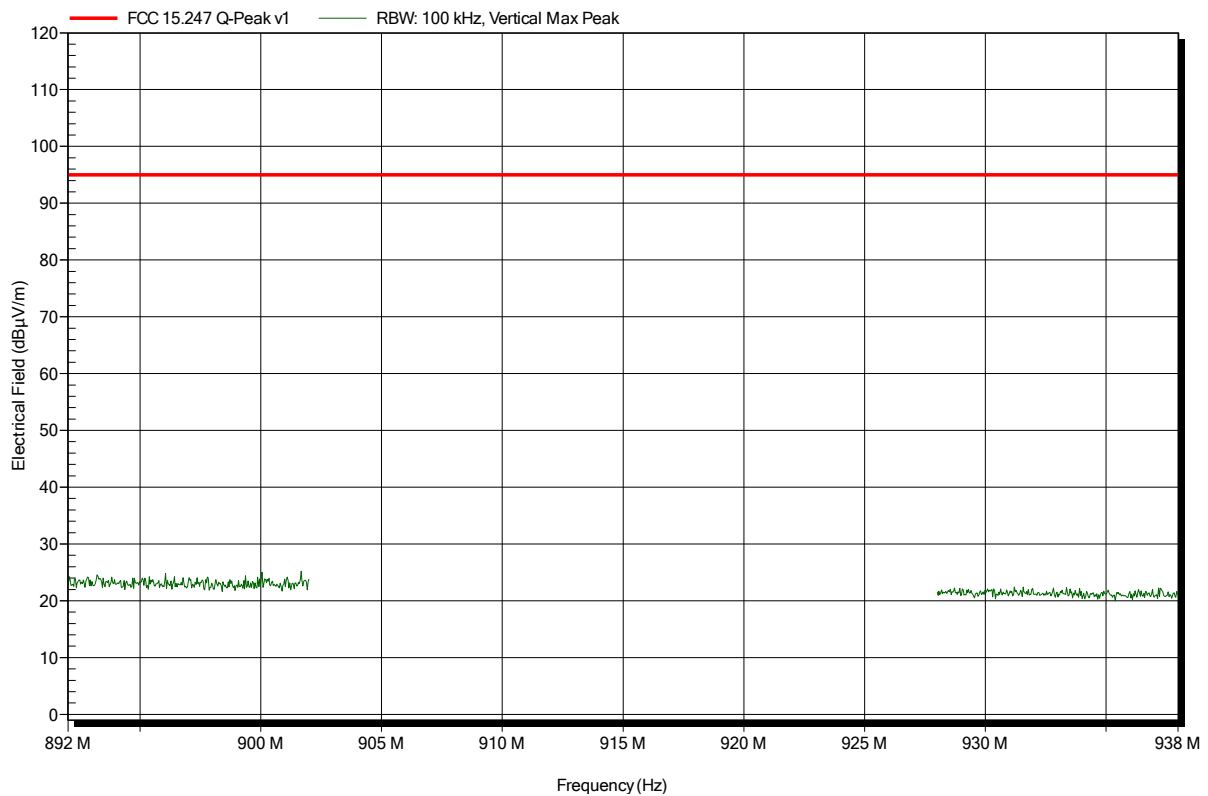


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Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 917 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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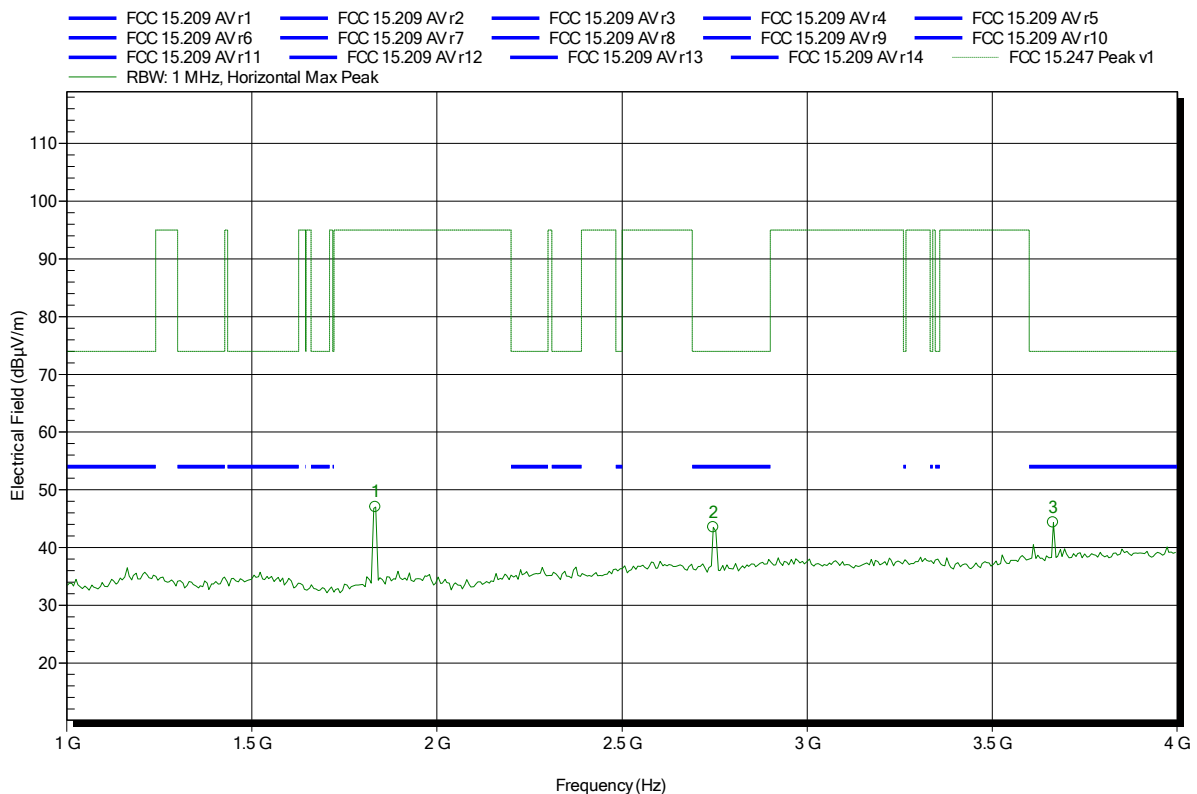


Spurious emissions according to FCC 15.247

Project number: GOM-1407-3996

Applicant: Dräger Safety AG & Co. KGaA
 EUT Name: Portable Alarm Amplifier
 Model: AAC 00XX
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Weber
 Test Conditions: Tnom: 24°C, Vnom: 6.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; FSK, 917 MHz, 125 kbps
 Test Date: 2014-08-12
 Note: EUT vertical

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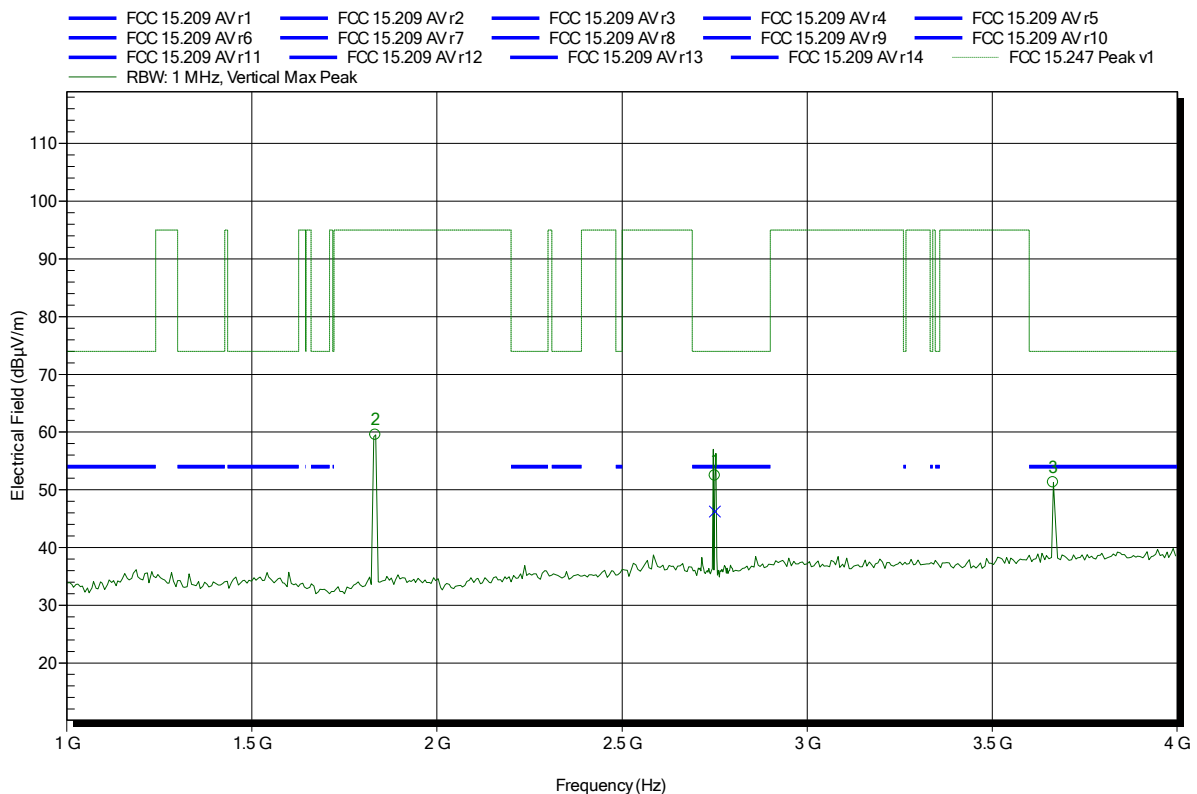
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.834 GHz	46.99 dBµV/m	95 dBµV/m	-48.01 dB	Pass
2.746 GHz	43.51 dBµV/m	74 dBµV/m	-30.49 dB	Pass
3.664 GHz	44.33 dBµV/m	74 dBµV/m	-29.67 dB	Pass

Spurious emissions according to FCC 15.247

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 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Weber
 Test Conditions: Tnom: 24°C, Vnom: 6.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; FSK, 917 MHz, 125 kBps
 Test Date: 2014-08-12
 Note: EUT vertical

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.834 GHz	59.49 dBµV/m	95 dBµV/m	-35.51 dB	Pass
2.75 GHz	52.44 dBµV/m	74 dBµV/m	-21.56 dB	Pass
3.664 GHz	51.27 dBµV/m	74 dBµV/m	-22.73 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
2.75 GHz	46.23 dBµV/m	54 dBµV/m	-7.77 dB	Pass

Test Report No.: G0M-1407-3996-TFC247DT-V01

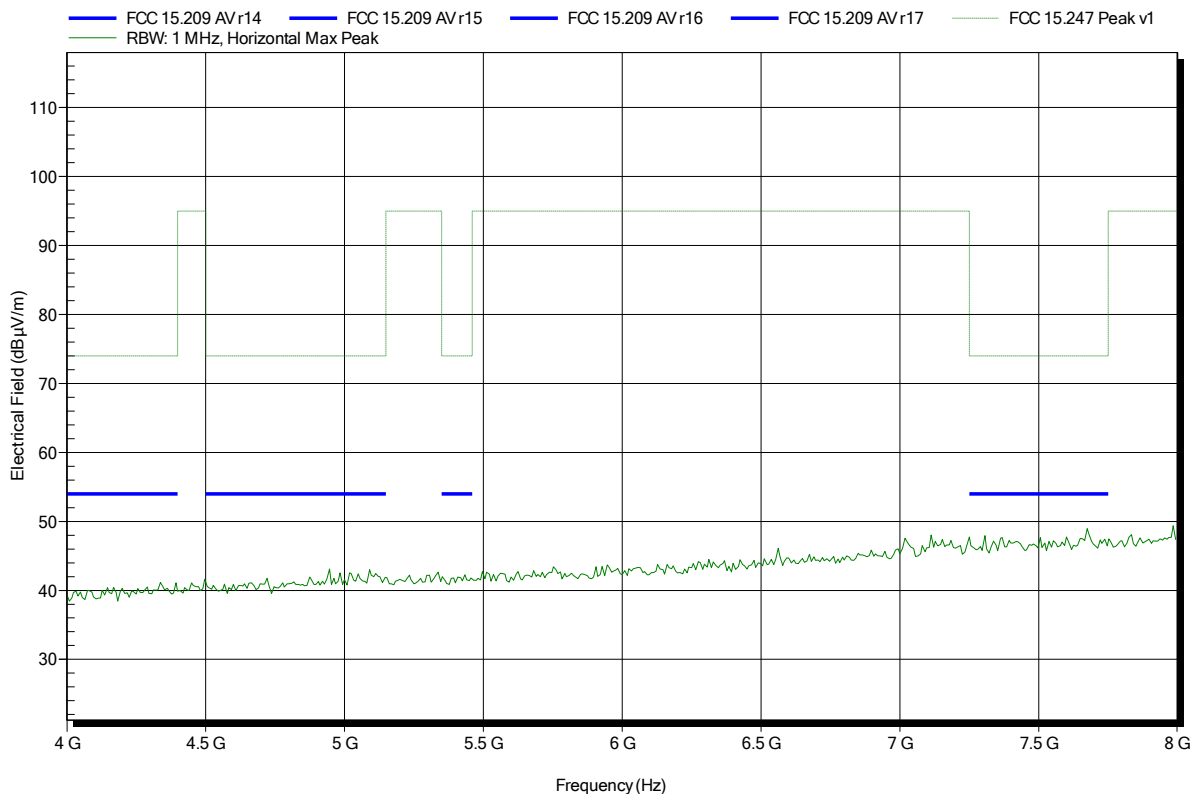
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 917 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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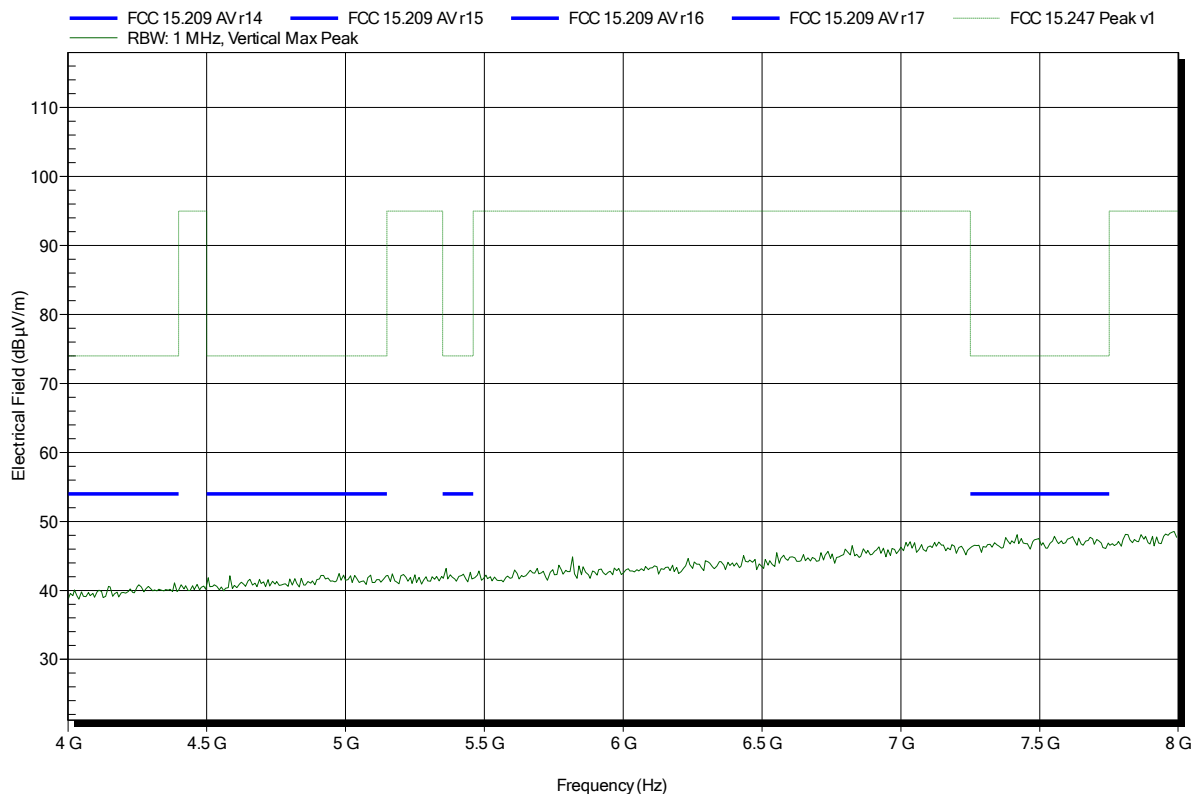


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Mode:	TX; FSK, 917 MHz, 125 kbps
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Note:	EUT vertical

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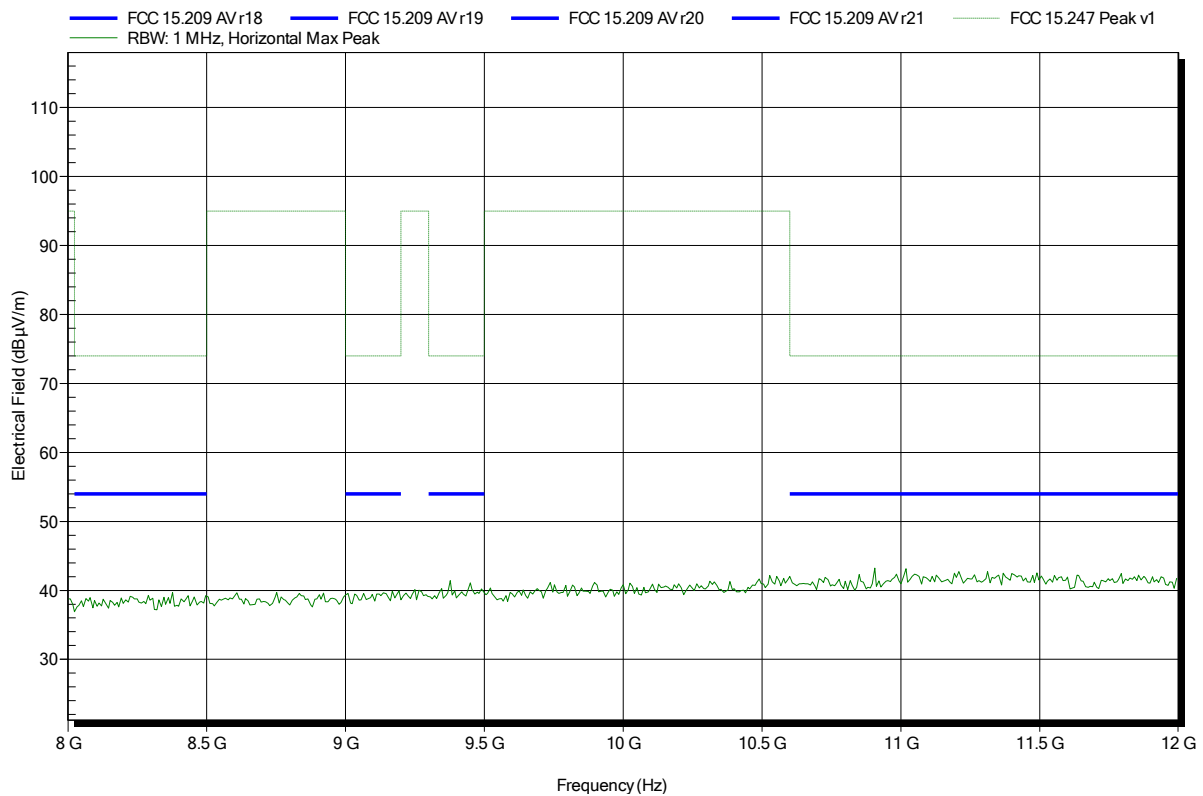


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; FSK, 917 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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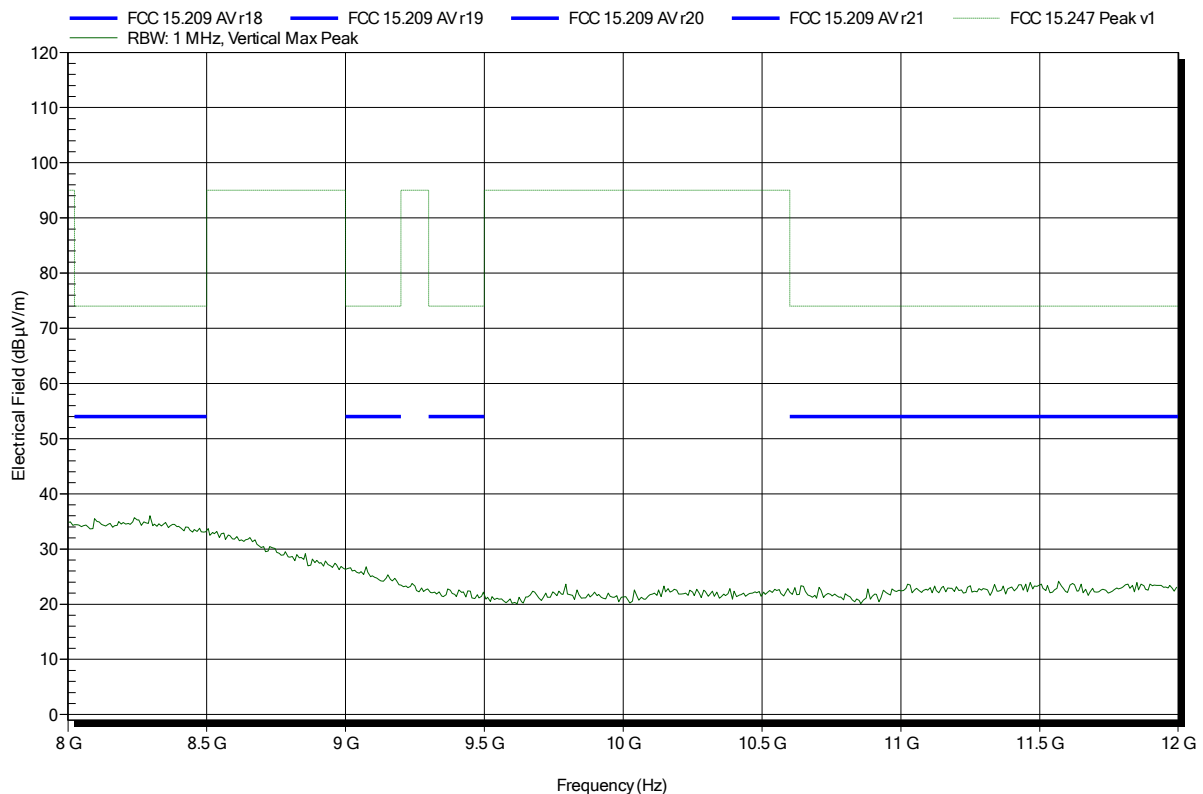


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; FSK, 917 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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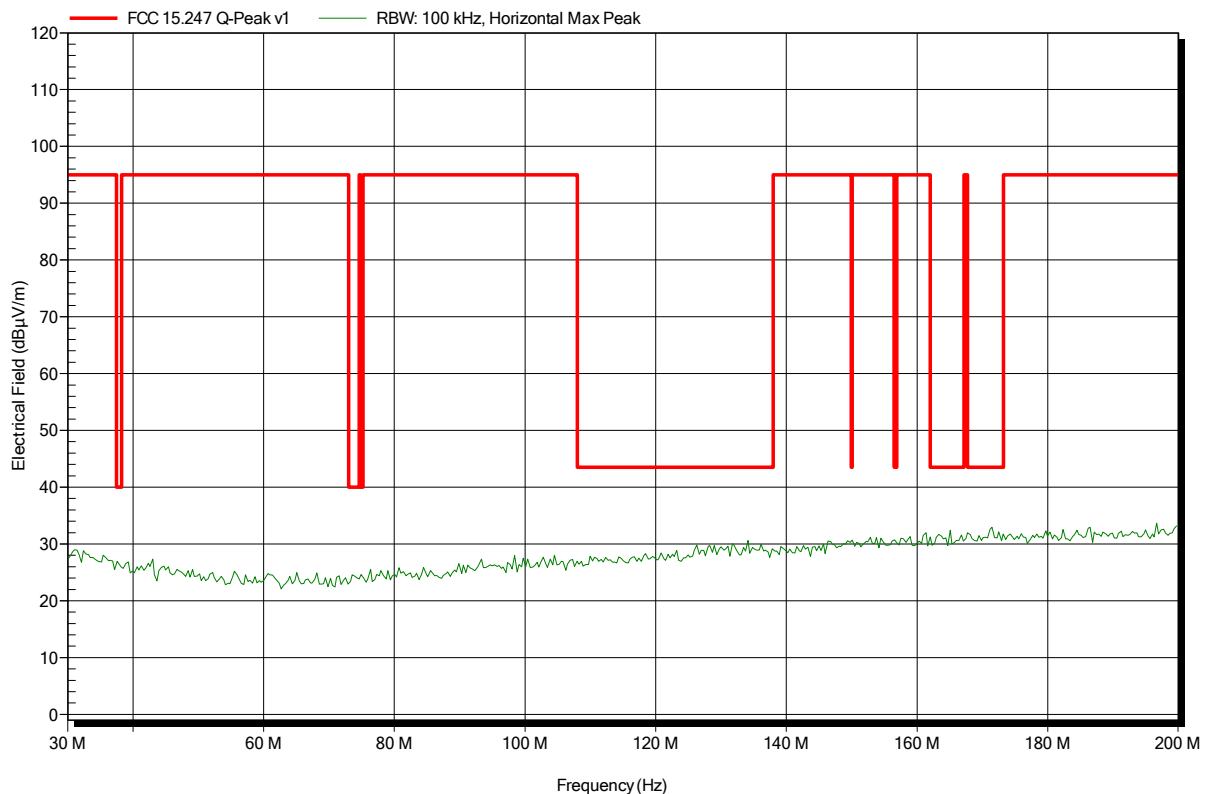


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 921.5 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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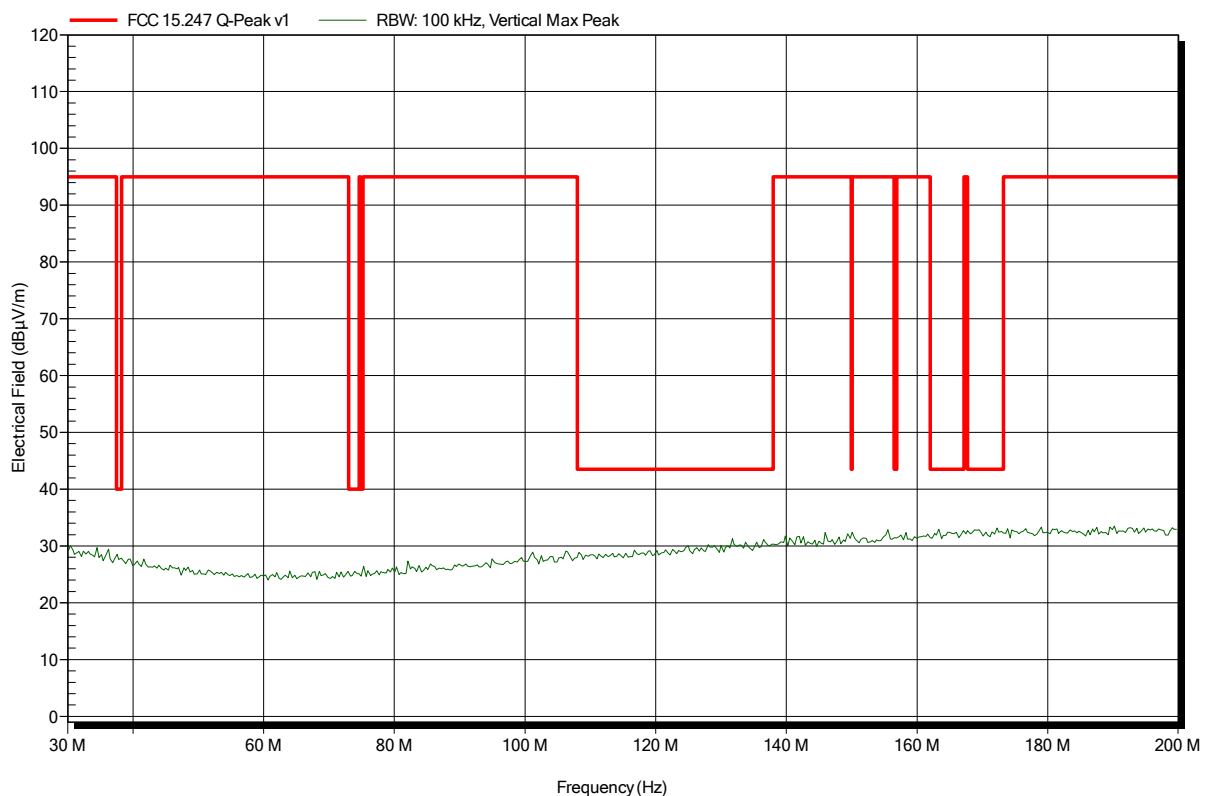


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 921.5 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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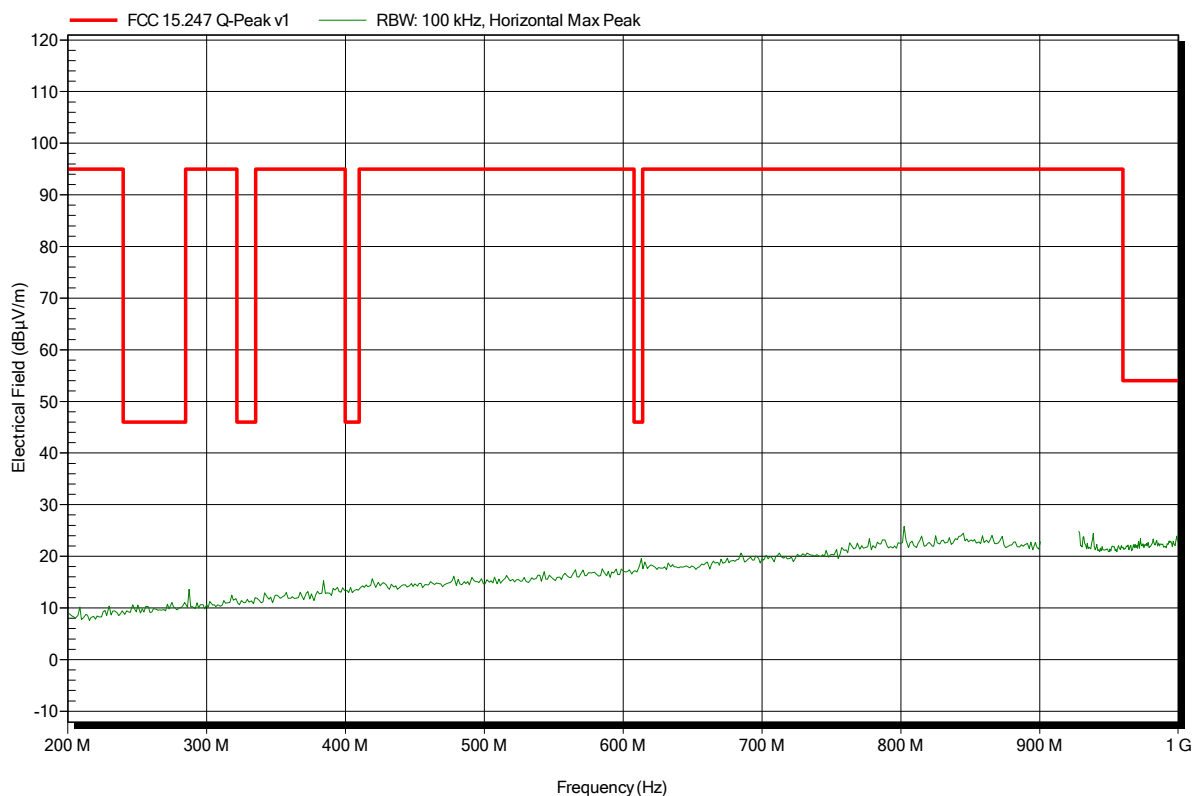


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 921.5 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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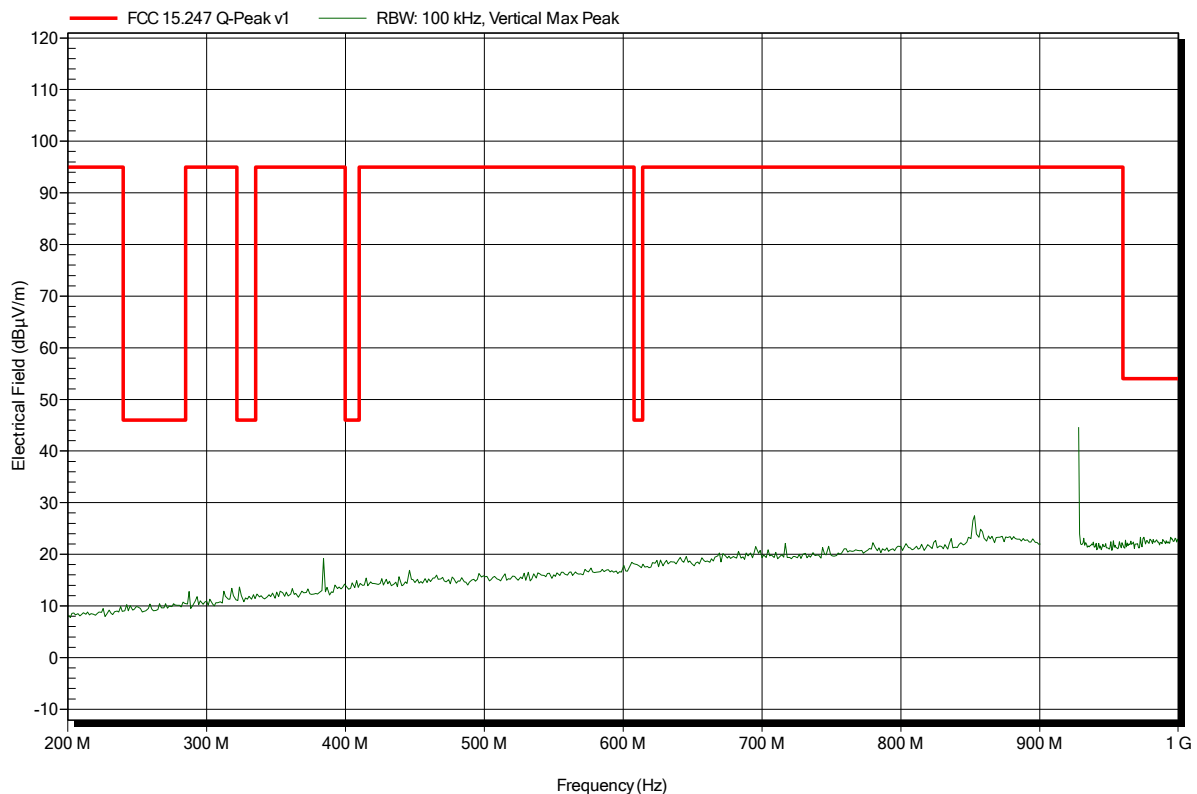


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 921.5 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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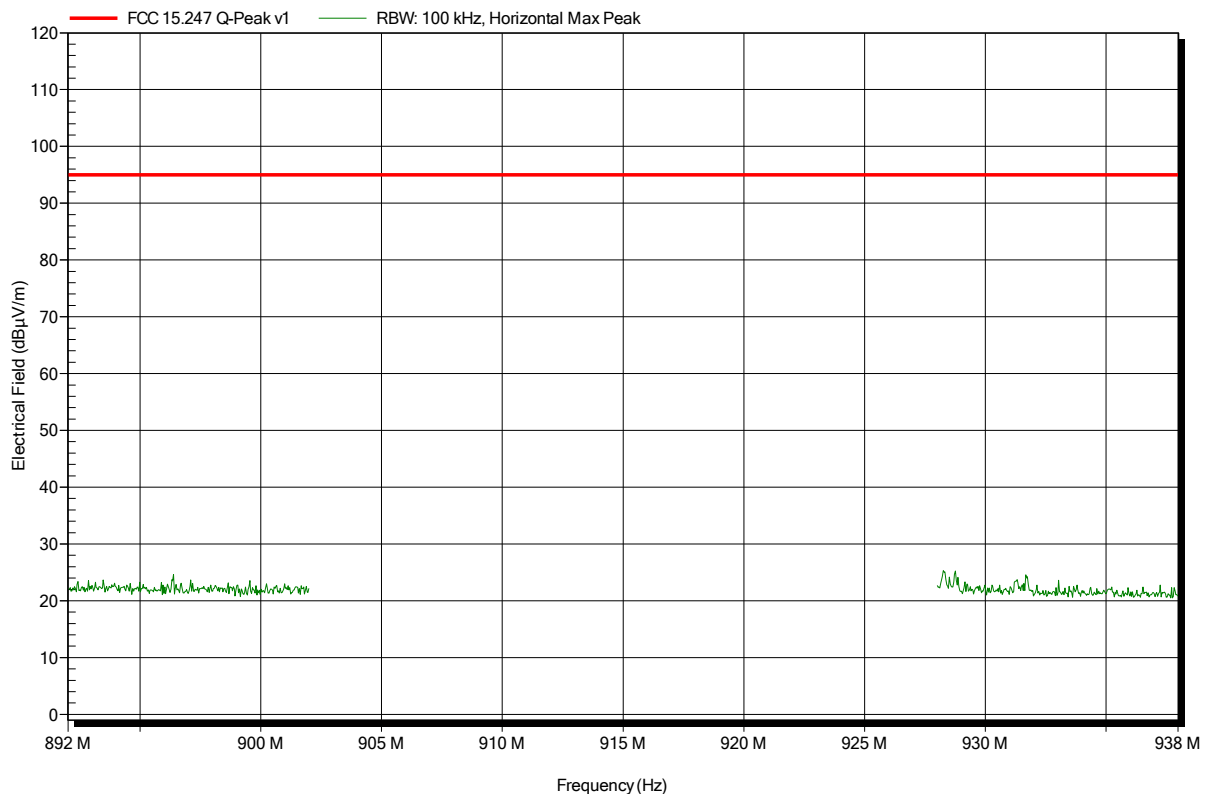


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 921.5 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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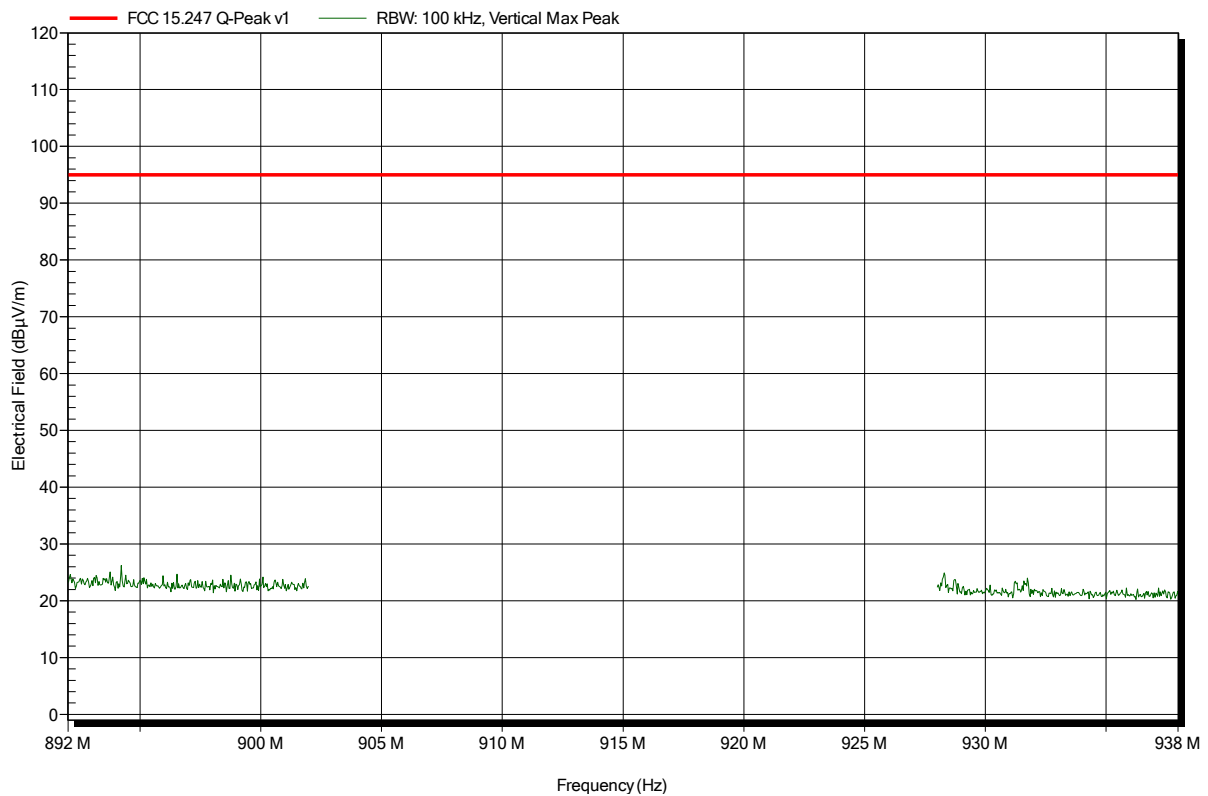


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 921.5 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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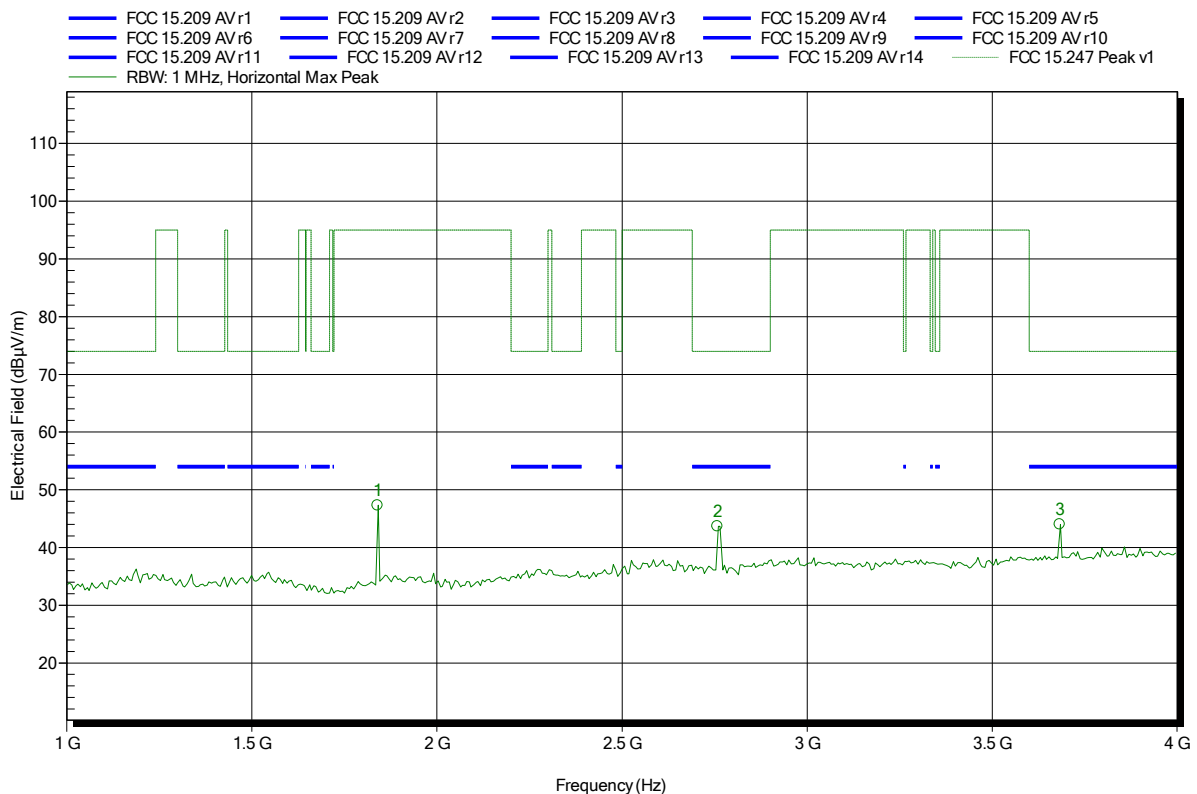


Spurious emissions according to FCC 15.247

Project number: GOM-1407-3996

Applicant: Dräger Safety AG & Co. KGaA
 EUT Name: Portable Alarm Amplifier
 Model: AAC 00XX
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Weber
 Test Conditions: Tnom: 24°C, Vnom: 6.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; FSK, 921.5 MHz, 125 kBps
 Test Date: 2014-08-12
 Note: EUT vertical

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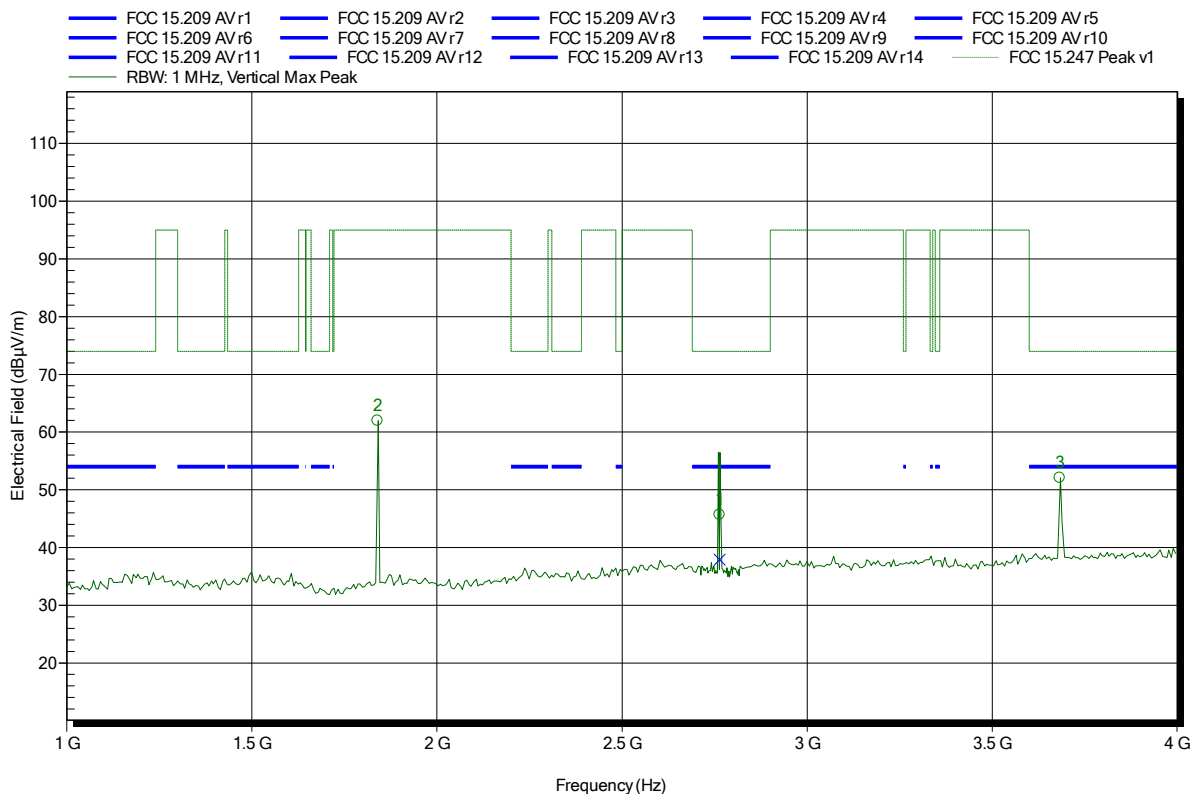
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.84 GHz	47.3 dBµV/m	95 dBµV/m	-47.7 dB	Pass
2.758 GHz	43.66 dBµV/m	74 dBµV/m	-30.34 dB	Pass
3.682 GHz	44.02 dBµV/m	74 dBµV/m	-29.98 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant: Dräger Safety AG & Co. KGaA
 EUT Name: Portable Alarm Amplifier
 Model: AAC 00XX
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Weber
 Test Conditions: Tnom: 24°C, Vnom: 6.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; FSK, 921.5 MHz, 125 kbps
 Test Date: 2014-08-12
 Note: EUT vertical

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.84 GHz	61.95 dBµV/m	95 dBµV/m	-33.05 dB	Pass
2.764 GHz	45.69 dBµV/m	74 dBµV/m	-28.31 dB	Pass
3.682 GHz	52.06 dBµV/m	74 dBµV/m	-21.94 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
2.764 GHz	37.9 dBµV/m	54 dBµV/m	-16.1 dB	Pass

Test Report No.: G0M-1407-3996-TFC247DT-V01

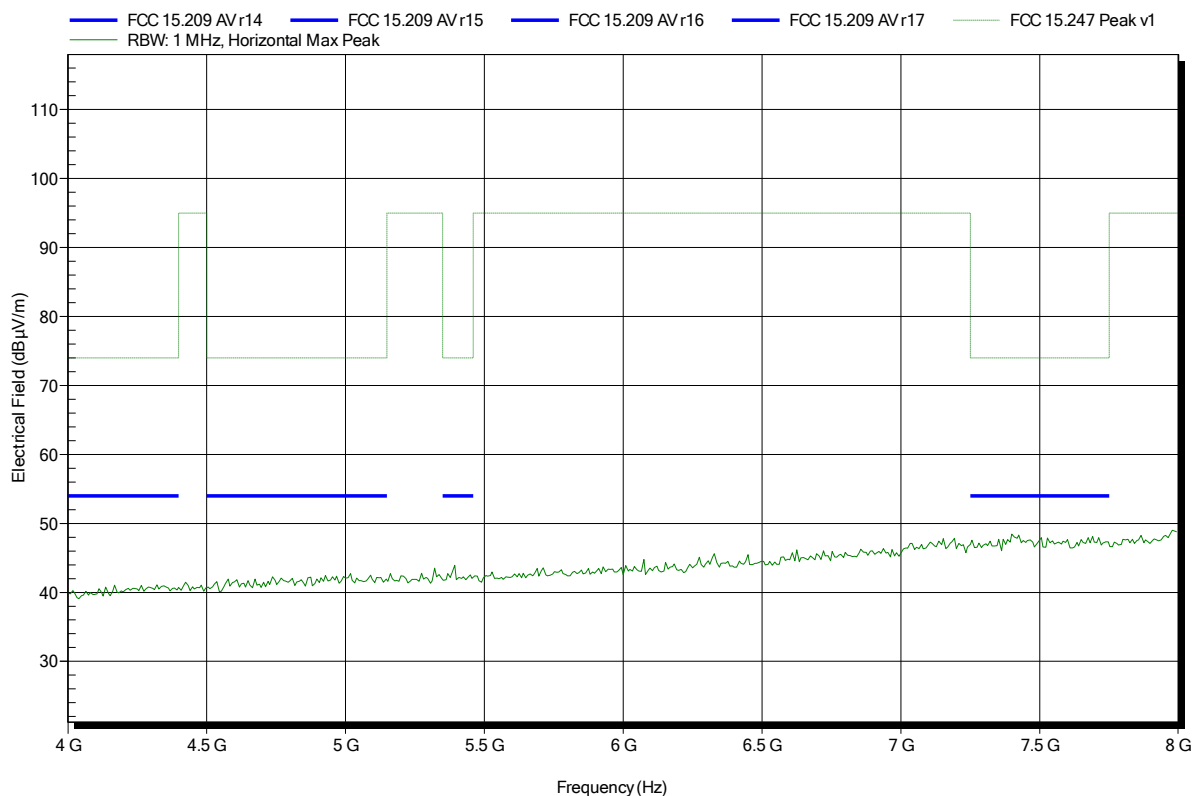
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 921.5 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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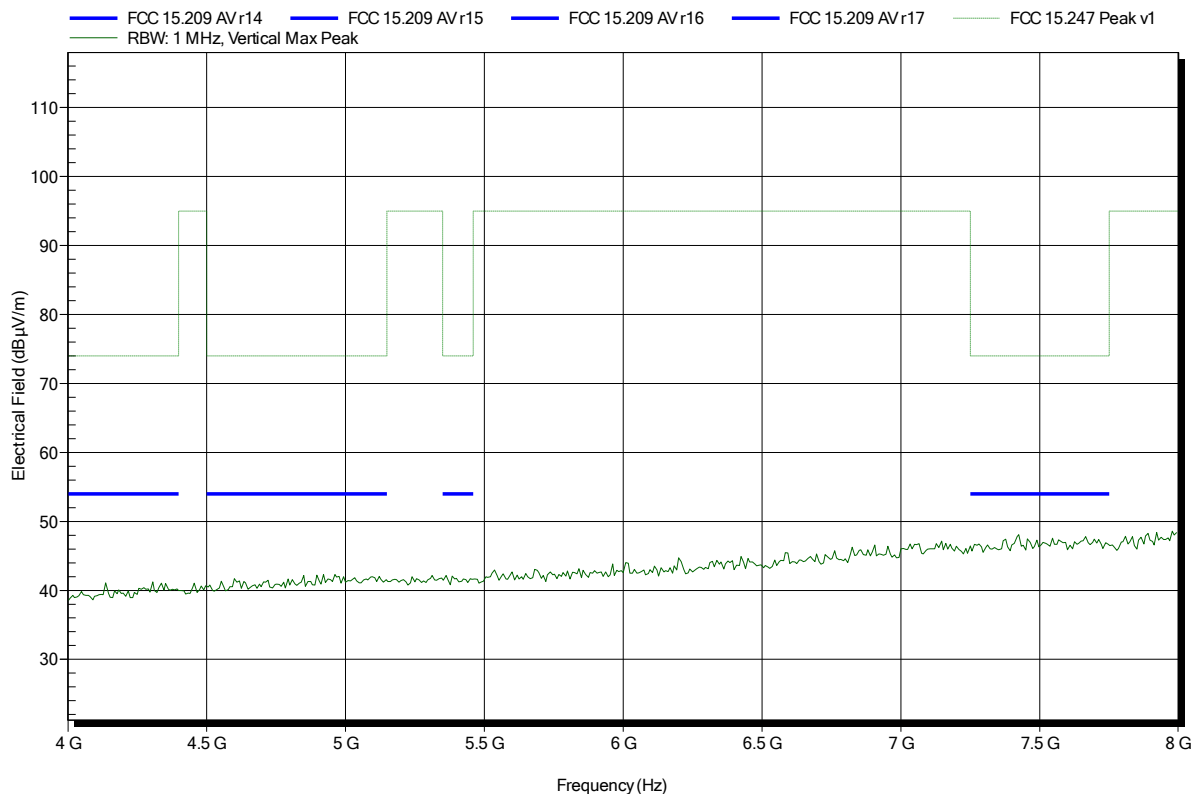


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 921.5 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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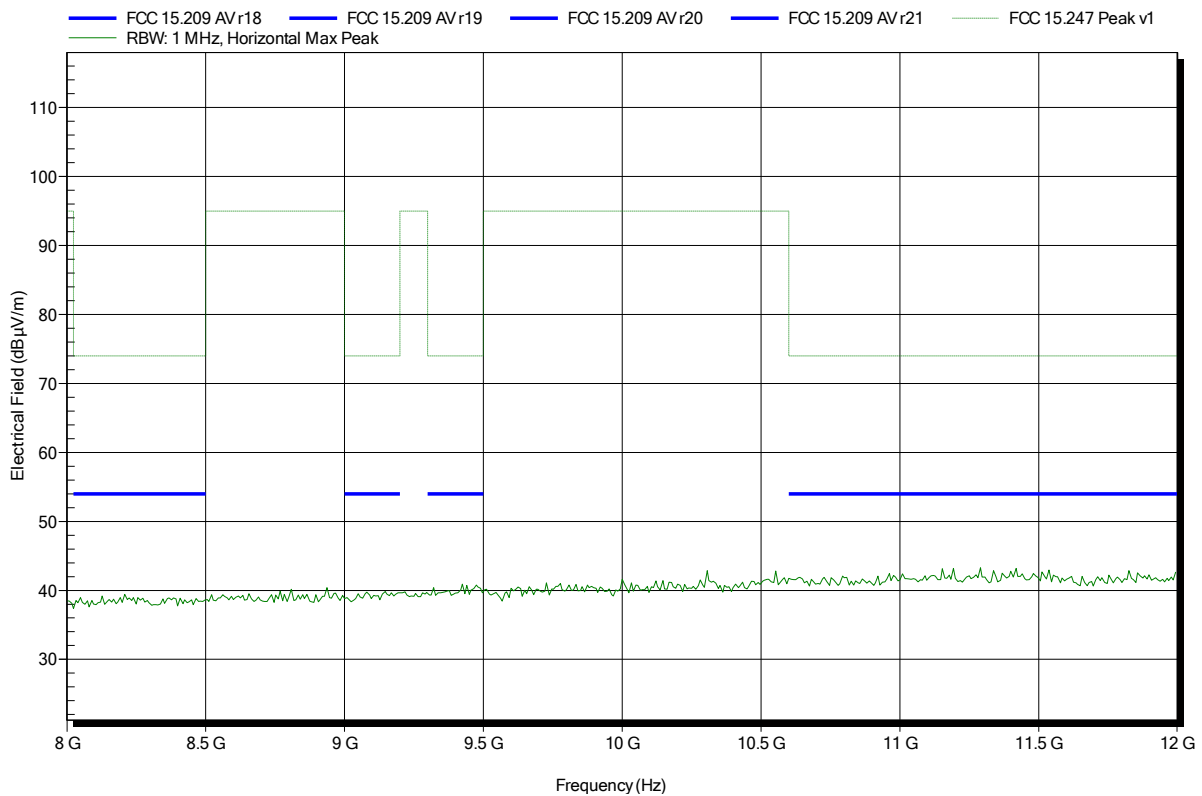


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; FSK, 921.5 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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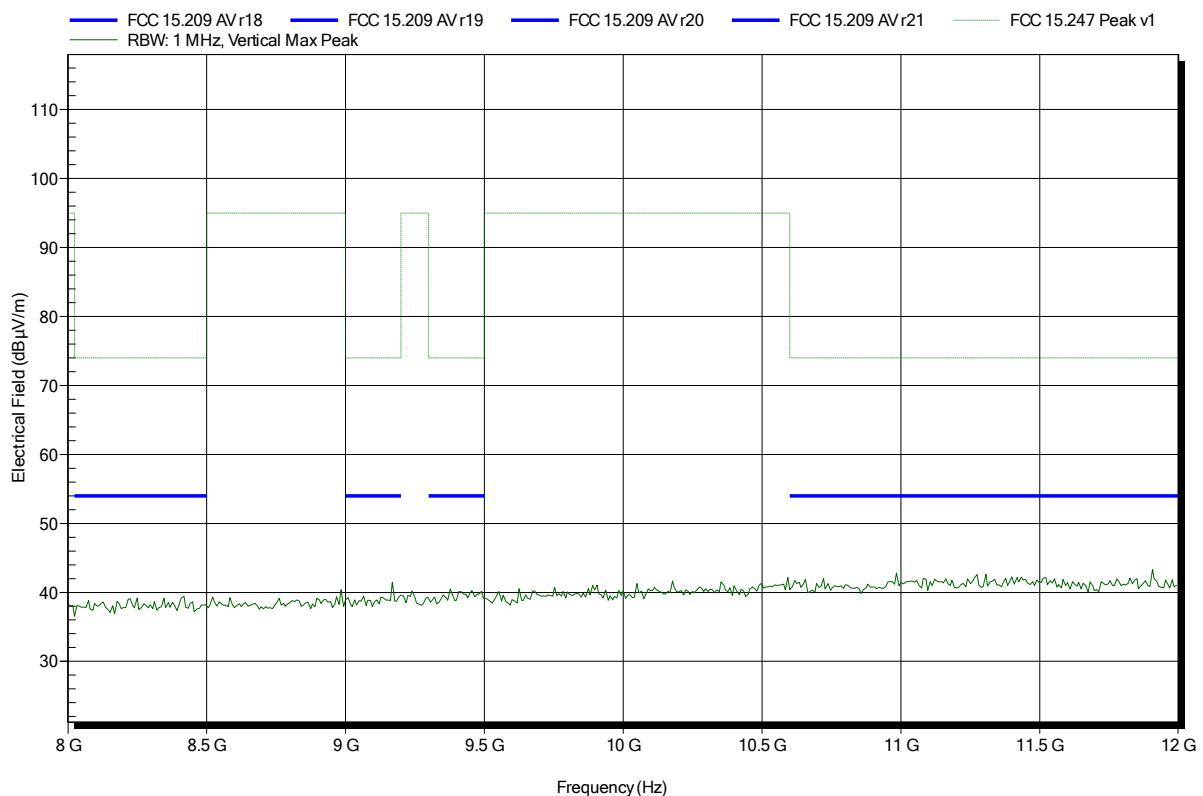


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; FSK, 921.5 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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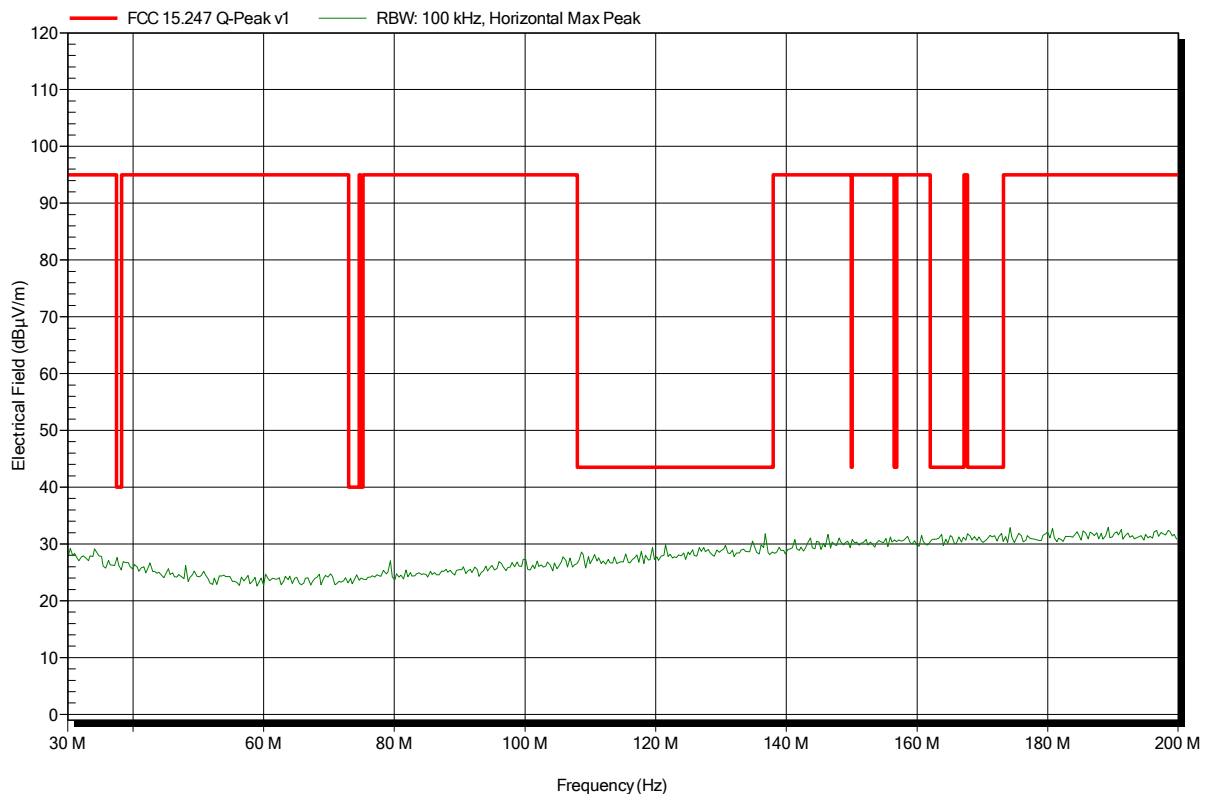


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 926 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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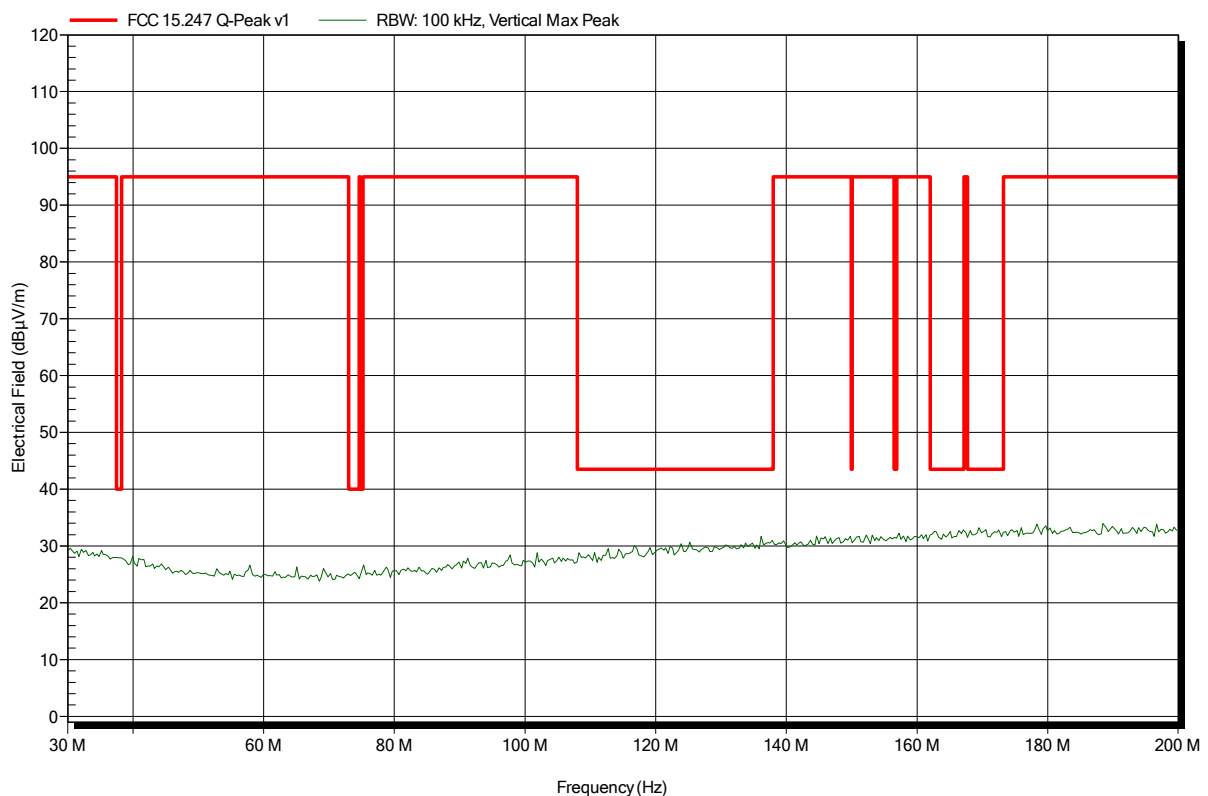


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 926 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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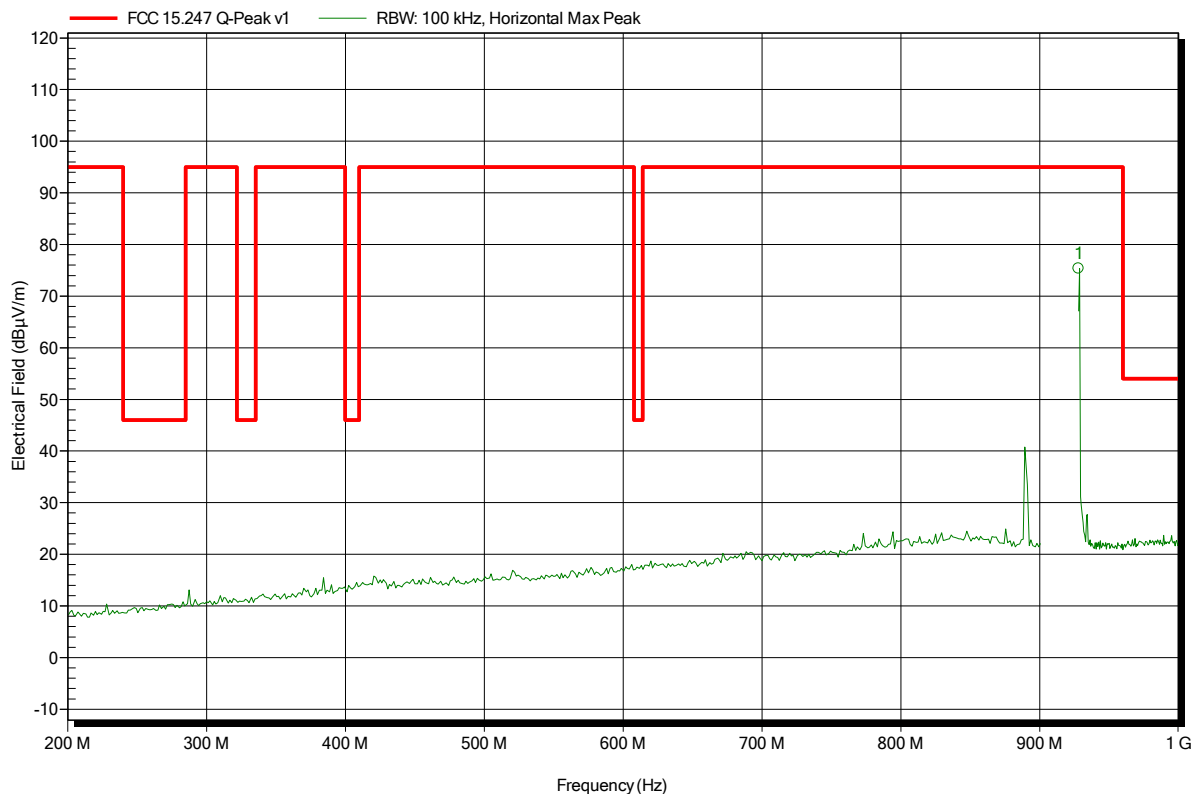


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant: Dräger Safety AG & Co. KGaA
 EUT Name: Portable Alarm Amplifier
 Model: AAC 00XX
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Weber
 Test Conditions: Tnom: 24°C, Vnom: 6.0 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: TX; FSK, 926 MHz, 125 kbps
 Test Date: 2014-08-12
 Note: EUT vertical

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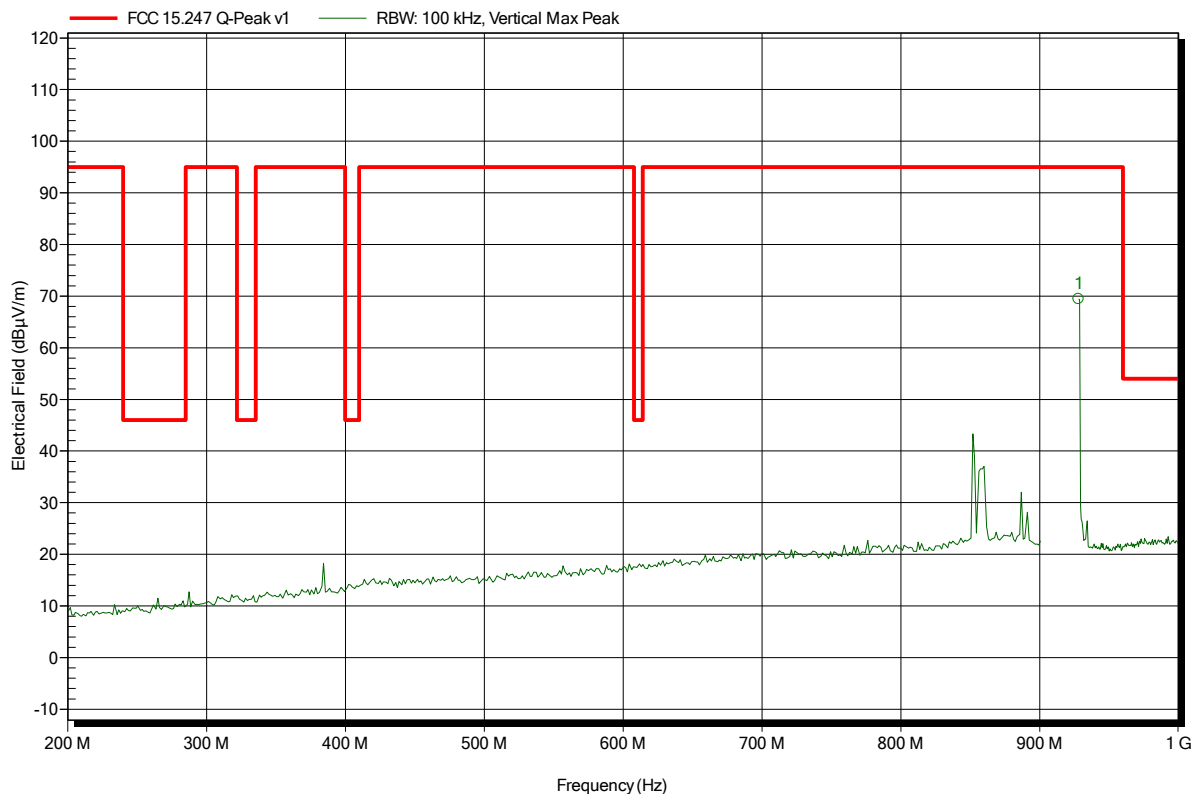
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
928.144 MHz	75.33 dBµV/m	95 dBµV/m	-19.67 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 926 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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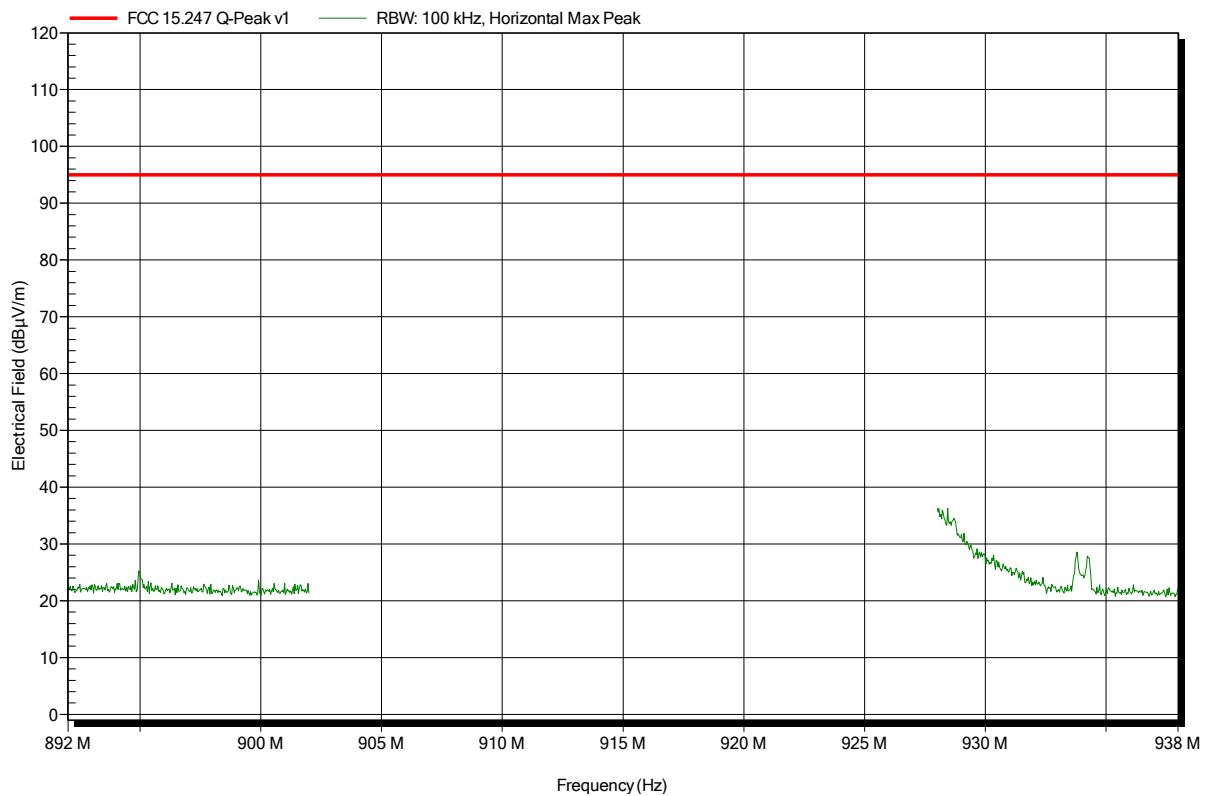
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
928 MHz	69.44 dBµV/m	95 dBµV/m	-25.56 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 926 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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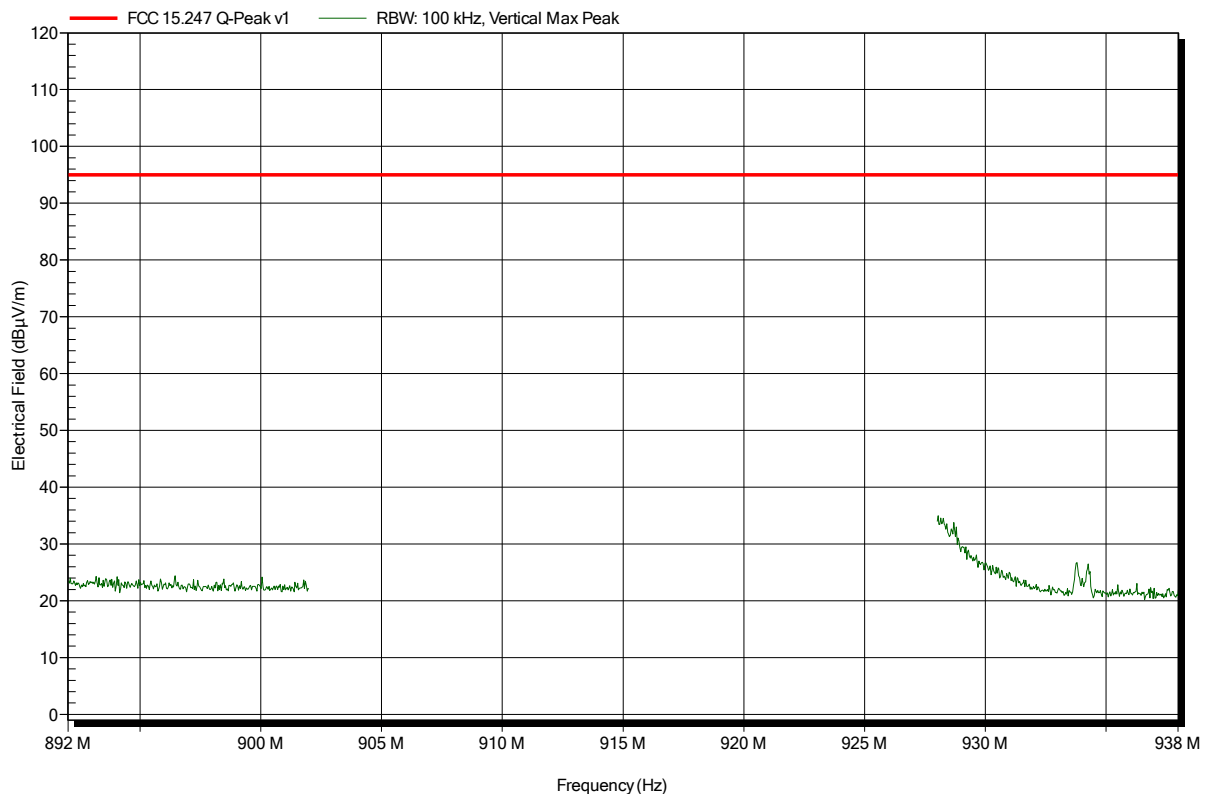


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 926 MHz, 125 kBps
Test Date:	2014-08-12
Note:	EUT vertical

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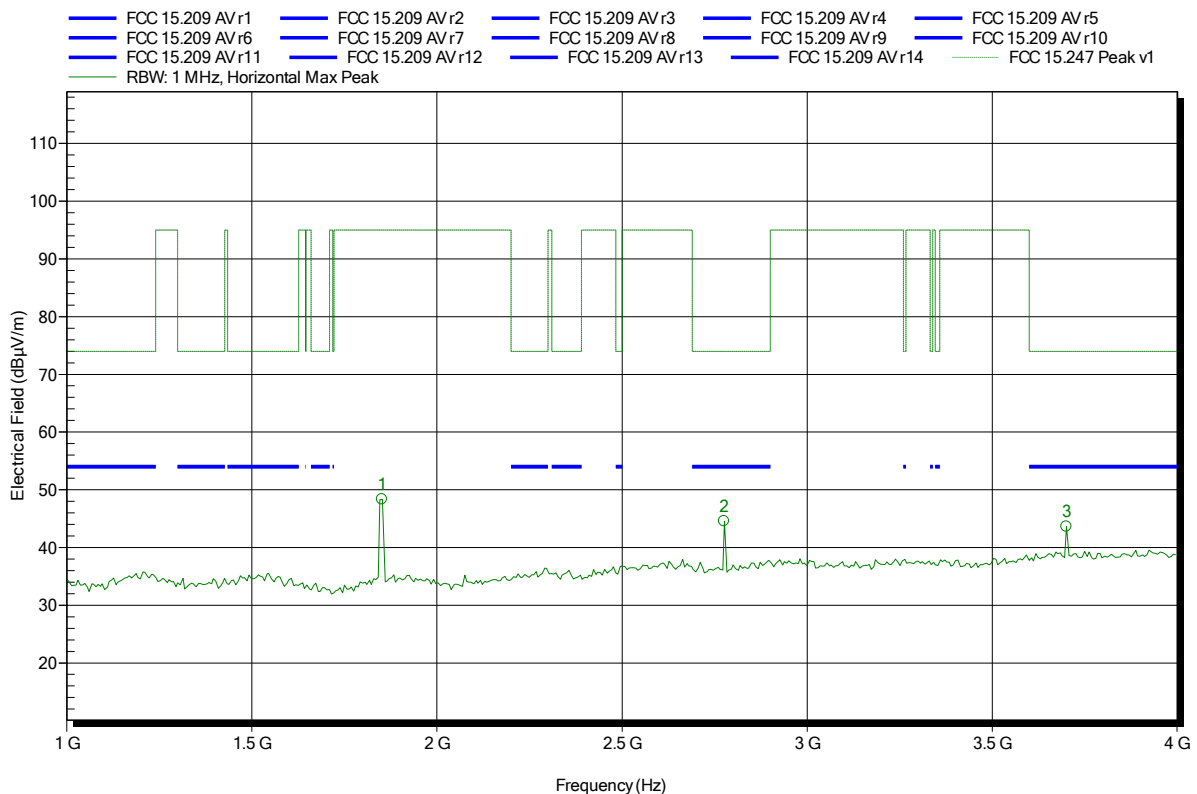


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant: Dräger Safety AG & Co. KGaA
 EUT Name: Portable Alarm Amplifier
 Model: AAC 00XX
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Weber
 Test Conditions: Tnom: 24°C, Vnom: 6.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; FSK, 926 MHz, 125 kbps
 Test Date: 2014-08-12
 Note: EUT vertical

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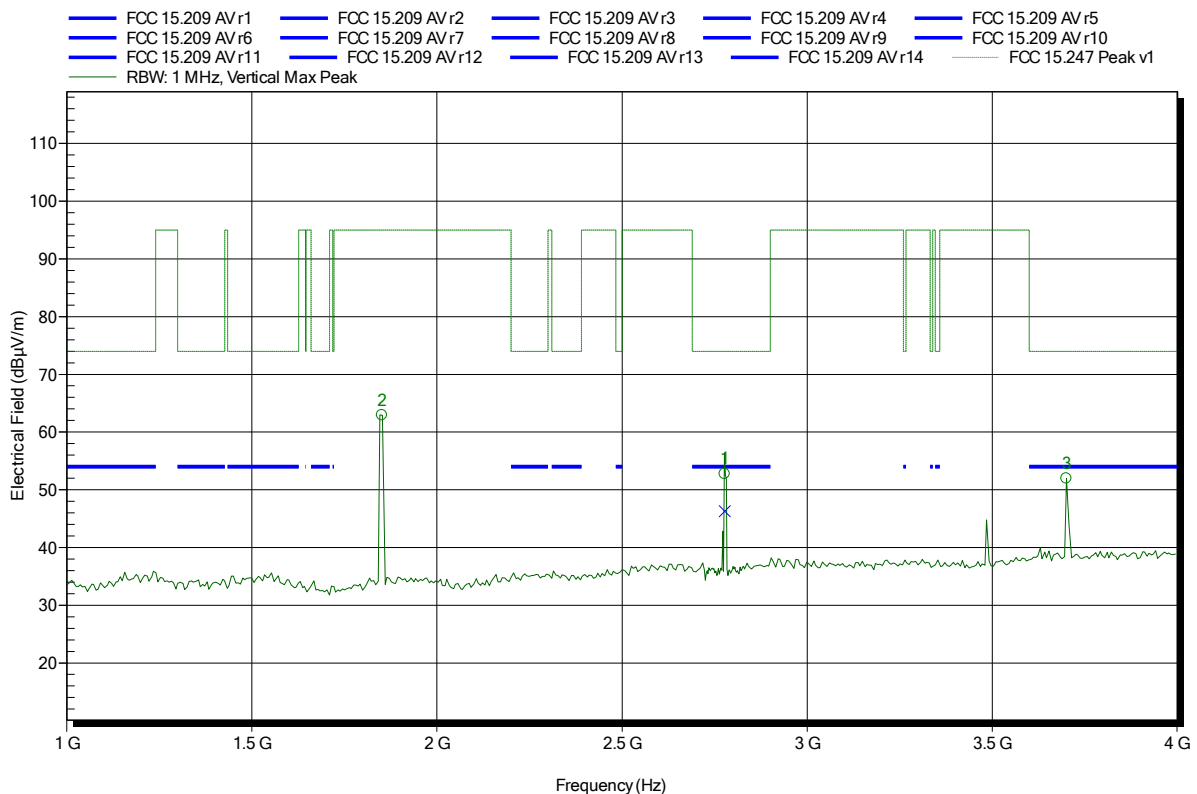
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.852 GHz	48.31 dBµV/m	95 dBµV/m	-46.69 dB	Pass
2.776 GHz	44.55 dBµV/m	74 dBµV/m	-29.45 dB	Pass
3.7 GHz	43.63 dBµV/m	74 dBµV/m	-30.37 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant: Dräger Safety AG & Co. KGaA
 EUT Name: Portable Alarm Amplifier
 Model: AAC 00XX
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Weber
 Test Conditions: Tnom: 24°C, Vnom: 6.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; FSK, 926 MHz, 125 kbps
 Test Date: 2014-08-12
 Note: EUT vertical

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.852 GHz	62.88 dBµV/m	95 dBµV/m	-32.12 dB	Pass
2.777 GHz	52.74 dBµV/m	74 dBµV/m	-21.26 dB	Pass
3.7 GHz	51.96 dBµV/m	74 dBµV/m	-22.04 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
2.777 GHz	46.28 dBµV/m	54 dBµV/m	-7.72 dB	Pass

Test Report No.: G0M-1407-3996-TFC247DT-V01

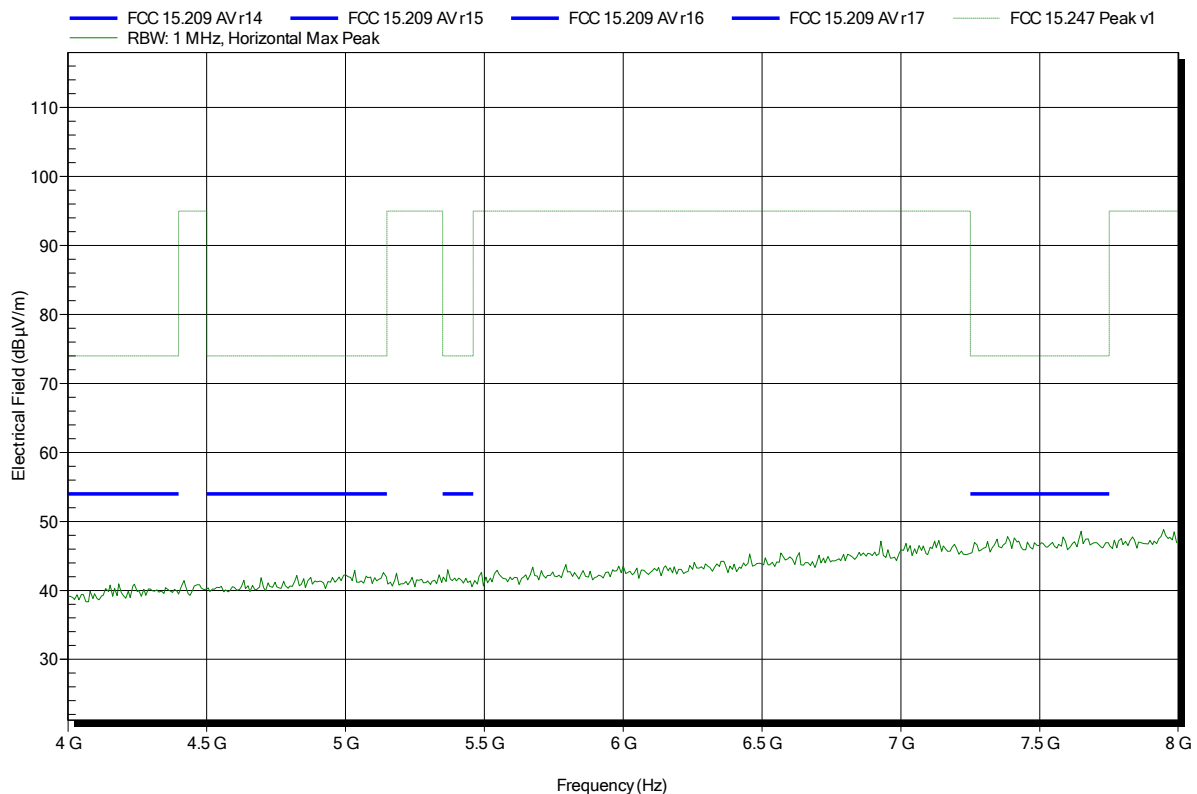
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	TX; FSK, 926 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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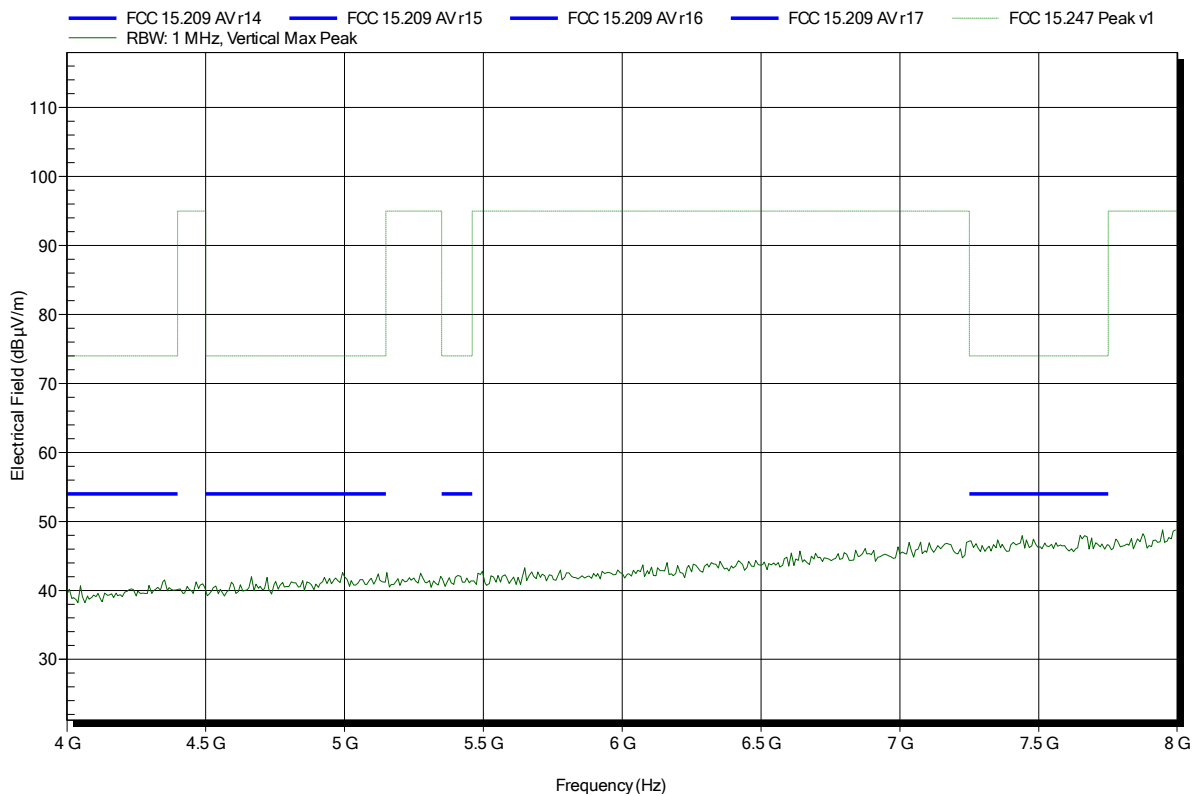


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	TX; FSK, 926 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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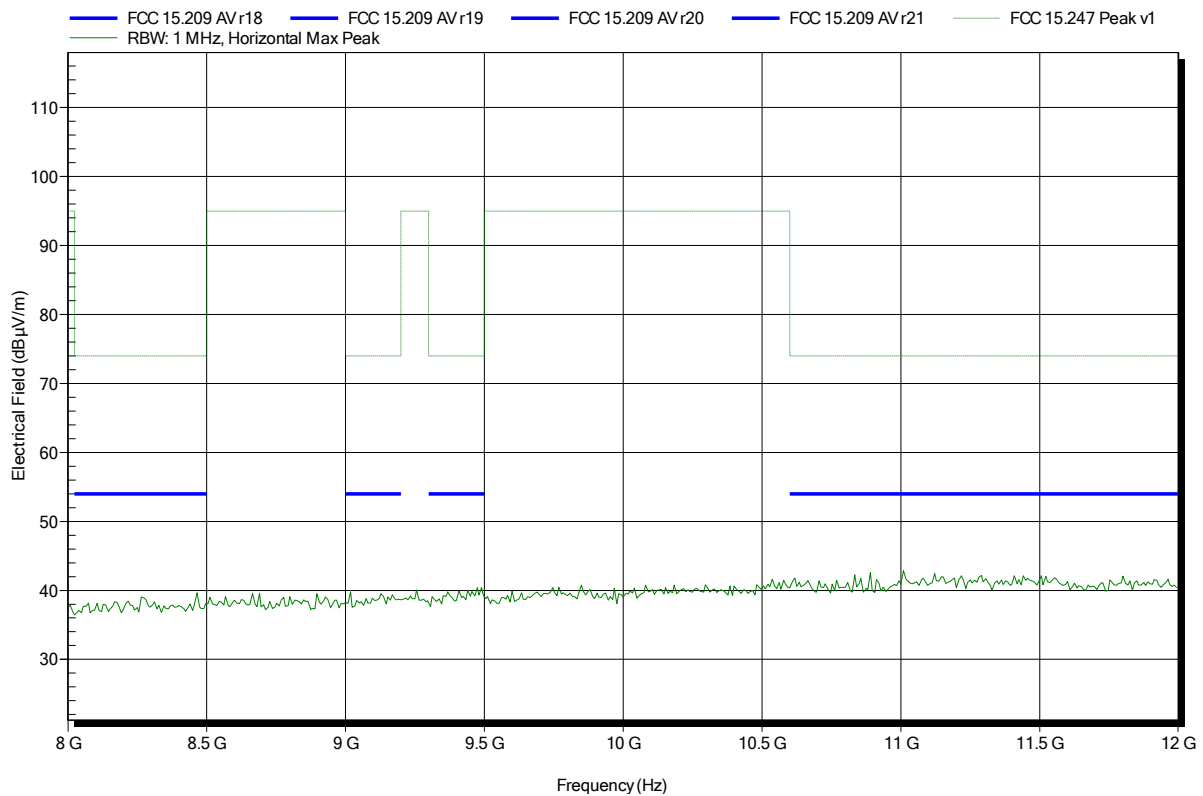


Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; FSK, 926 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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Spurious emissions according to FCC 15.247

Project number: G0M-1407-3996

Applicant:	Dräger Safety AG & Co. KGaA
EUT Name:	Portable Alarm Amplifier
Model:	AAC 00XX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Weber
Test Conditions:	Tnom: 24°C, Vnom: 6.0 VDC
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; FSK, 926 MHz, 125 kbps
Test Date:	2014-08-12
Note:	EUT vertical

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