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RADIO REPORT

FCC 47 CFR Part 15C
ISED Canada RSS-247

Frequency hopping systems operating within the 2400.0 MHz - 2483.5 MHz MHz band

Report Reference No	G0M-2104-9762-TFC247BT-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	 DAkkS - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 3470A DAkkS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	Webfleet Solutions B.V.
Address	De Ruijterkade 154 1011 AC Amsterdam Netherlands
Test Specification	47 CFR Part 15C RSS-247, Issue 2, 2017-02 RSS-Gen, Issue 5, Amendment 1, 2019-03
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Telematic Device with GSM+LTE+GNSS+OBD connector
Model(s)	L0240
Additional Model(s)	None
Brand Name(s)	LINK 240
Hardware Version(s)	48/2019
Software Version(s)	2.1
FCC ID	2AGPAL0240
IC	-/-
Test Result	**PASSED**

Possible test case verdicts:		
Required by standard but not tested	N/T	
Not required by standard	N/R	
Not applicable to EUT	N/A	
Test object does meet the requirement	P(PASS)	
Test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 °C - 30 °C	
Test Lab Humidity	25 % - 55 %	
Date of receipt of test item	2021-04-29	
Report:		
Compiled by	Florian Voigt	
Tested by (+ signature) (Responsible for Test)	Florian Voigt	F. Voigt .....
Approved by (+ signature) (Deputy Head of Lab)	Toralf Jahn	T. J .....
Date of Issue	2021-10-07	
Total number of pages	135	
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:		
EUT supports supply voltages of 12V to 24V. Only supply voltage of 12V is tested.		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2021-10-07	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
BR	Basic Rate (Bluetooth)
EDR	Enhanced Data Rate (Bluetooth)
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V_{NOM}	Nominal supply voltage

REPORT INDEX

1 Equipment (Test Item) Under Test

Description	Telematic Device with GSM+LTE+GNSS+OBD connector	
Model	L0240	
Additional Model(s)	None	
Brand Name(s)	LINK 240	
Serial Number(s)	Radiated: WX4160100027 Conducted: WX4160100030	
Test Sample Id(s)	Radiated: 34392 Conducted: 34394	
Hardware Version(s)	48/2019	
Software Version(s)	2.1	
PMN	-/-	
HVIN	-/-	
FVIN	-/-	
HMN	-/-	
FCC ID	2AGPAL0240	
IC	-/-	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400.0 MHz - 2483.5 MHz	
Radio technology	Bluetooth	
Modulation	GFSK, PI/4-DQPSK, 8-DPSK	
Number of antenna ports	1	
Antenna	Type	Integrated antenna
	Model	ALA621C4
	Manufacturer	Amotec
	Gain	0 dBi
Supply Voltage	V_{NOM}	12 - 24 VDC
Operating Temperature	T_{NOM}	25 °C
AC/DC-Adaptor	None	
Manufacturer	Webfleet Solutions B.V. De Ruijterkade 154 1011 AC Amsterdam Netherlands	

1.1 Photos – Equipment External

EUT perspective view A

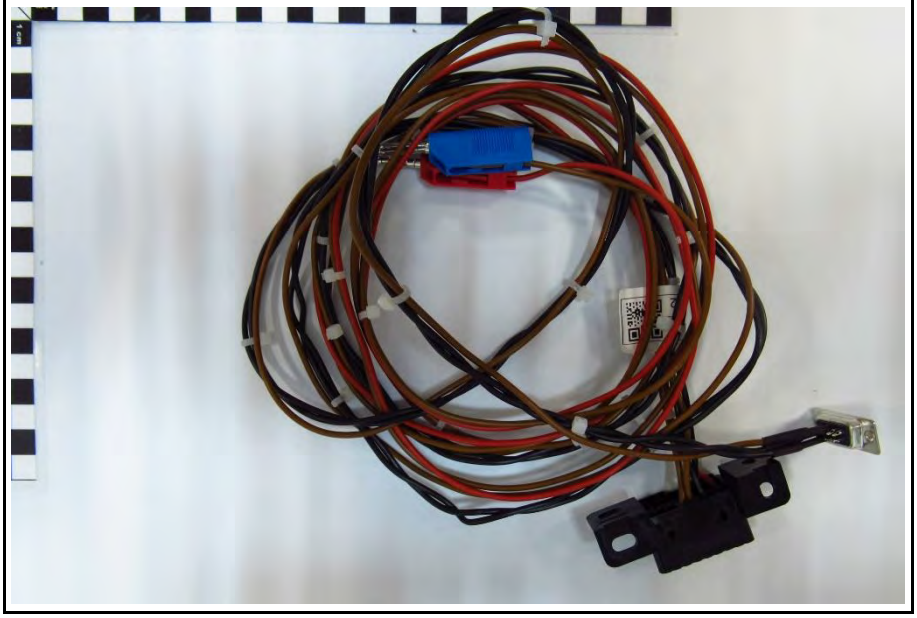

EUT perspective view B


EUT front side view


EUT back side view


EUT top view

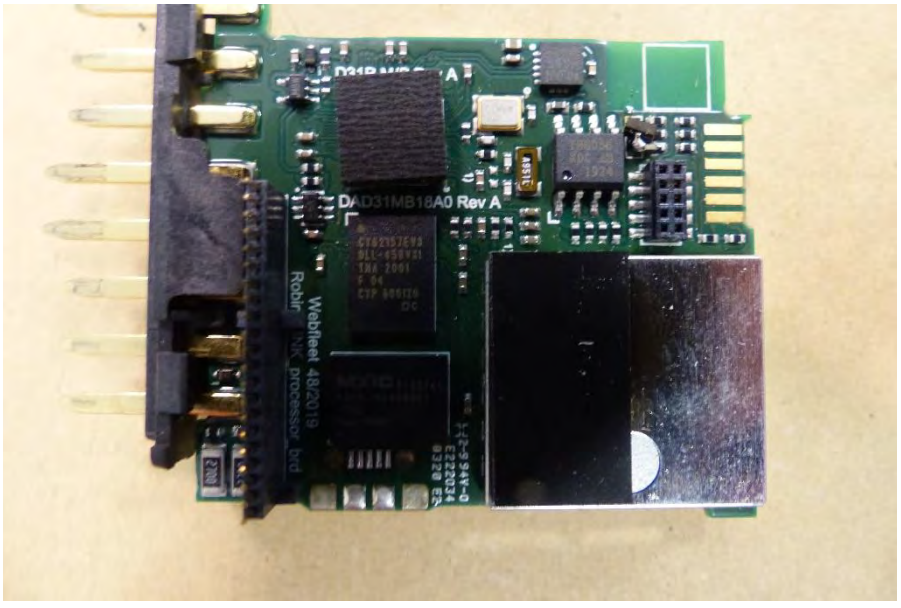

EUT bottom view

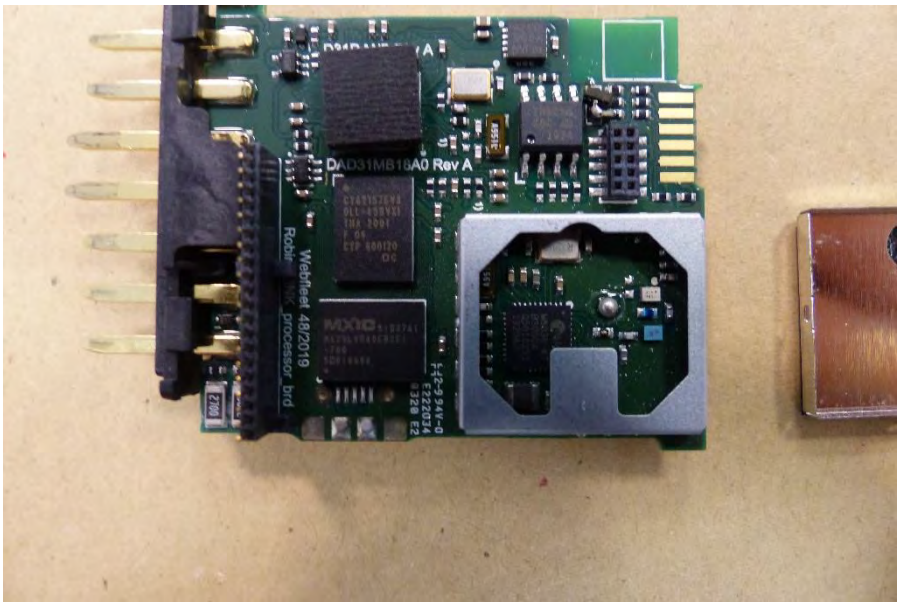

AE OBD2 cables


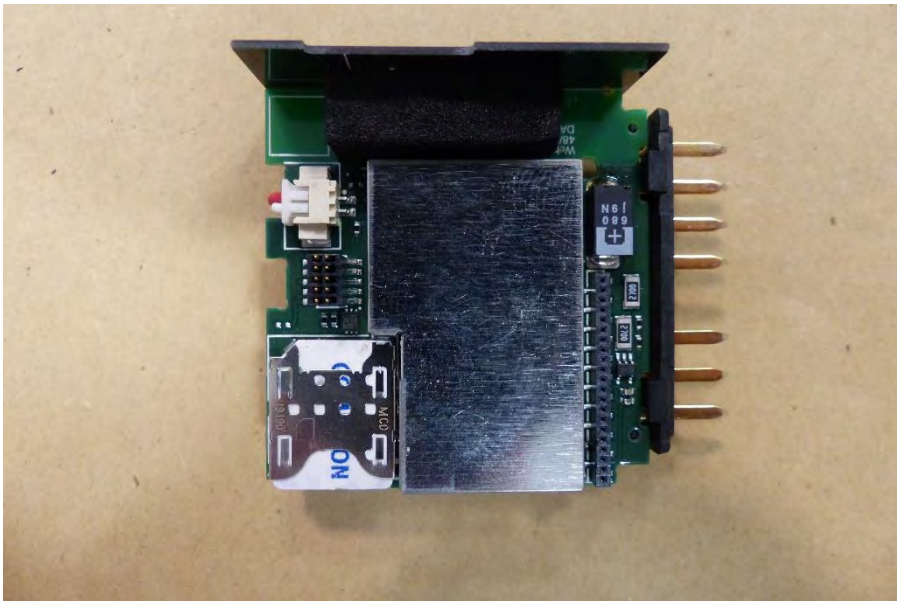
1.2 Photos – Equipment Internal

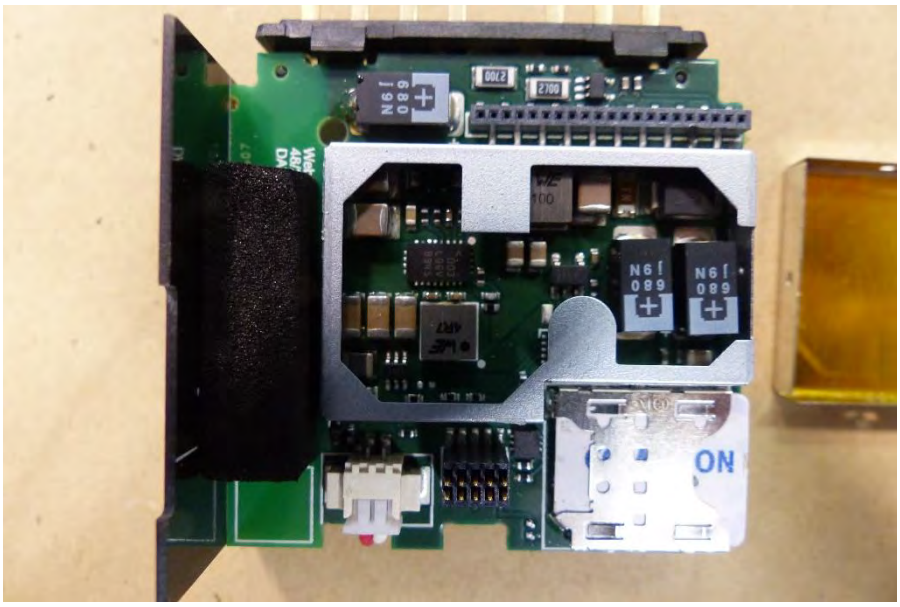
Interior view A


Interior view B


Interior view C


Interior view D


Interior view E


Interior view F


1.3 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
SIM	Communication Tester	R&S	CMW270	
AE	USB to CAN bridge	IXXAT	USB to CAN V2	
AE	Laptop	Lenovo	T440	
AE	Laptop power supply	Delta electronics Inc.	ADLX45NDC3A	
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.4 Test Modes

Mode	Description
DH5 Single	Mode = Transmit Modulation = GFSK Spreading = None Packet type = DH5 Duty cycle = 78%
2-DH5 Single	Mode = Transmit Modulation = PI/4-DQPSK Spreading = None Packet type = 2-DH5 Duty cycle = 78%
3-DH5 Single	Mode = Transmit Modulation = 8-DPSK Spreading = None Packet type = 3-DH5 Duty cycle = 78%
DH5 Hopping	Mode = Transmit Modulation = GFSK Spreading = FHSS Packet type = DH5 Duty cycle = 78%
2-DH5 Hopping	Mode = Transmit Modulation = PI/4-DQPSK Spreading = FHSS Packet type = 2-DH5 Duty cycle = 78%
3-DH5 Hopping	Mode = Transmit Modulation = 8-DPSK Spreading = FHSS Packet type = 3-DH5 Duty cycle = 78%
Receive	Mode = Receive
Comment:	

1.5 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	0	2402
F2	Tx / Rx	39	2441
F3	Tx / Rx	40	2442
F4	Tx / Rx	78	2480

1.6 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 dBµV. 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:

Reading on Analyzer (dBµV) + A.F. (dB/m) = Net field strength (dBµV/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 dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

Limit (dBµV/m) = 20*log (µV/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:

Reading + AF	= Net Reading	:	Net reading - FCC limit	= Margin
+21.5 dBµV + 26 dB/m	= 47.5 dBµV/m	:	47.5 dBµV/m - 57.0 dBµV/m	= -9.5 dB

2 Result Summary

FCC 47 CFR Part 15C, ISED RSS-247				
Product Standard Reference	**Requirement**	**Reference Method**	**Result**	**Remarks**
ISED RSS-Gen, Issue 5 (section 6.7)	Occupied Bandwidth	ANSI C63.10-2013	N/R	Informational only
FCC § 15.247(a)(1) ISED RSS-247 § 5.1 Issue 2	20 dB Bandwidth	ANSI C63.10-2013	PASS	
FCC § 15.247(a)(1)(iii) ISED RSS-247, Issue 2 (section 5.1)	Number of hopping frequencies	ANSI C63.10-2013	PASS	
FCC § 15.247(a)(1) ISED RSS-247, Issue 2 (section 5.1)	Frequency hopping channel separation	ANSI C63.10-2013	PASS	
FCC § 15.247(a)(1)(iii) ISED RSS-247, Issue 2 (section 5.1)	Time of occupancy (Dwell time)	ANSI C63.10-2013	PASS	
FCC § 15.247(b) ISED RSS-247, Issue 2 (section 5.4)	Maximum peak conducted power	ANSI C63.10-2013	PASS	
FCC § 15.207 ISED RSS-247, Issue 2 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	N/R	EUT is not directly or indirectly connected to mains network
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Band edge compliance	ANSI C63.10-2013	PASS	
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Conducted spurious emissions	ANSI C63.10-2013	PASS	
FCC § 15.247(d) FCC § 15.209 ISED RSS-Gen, Issue 5 (section 6.13)	Transmitter radiated spurious emissions	ANSI C63.10-2013	PASS	
ISED RSS-247, Issue 2 (section 3.1)	Receiver radiated spurious emissions	ANSI C63.10-2013	PASS	
Comment:				

Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

3 Test Conditions and Results

3.1 Test Conditions and Results - Occupied bandwidth

3.1.1 Information

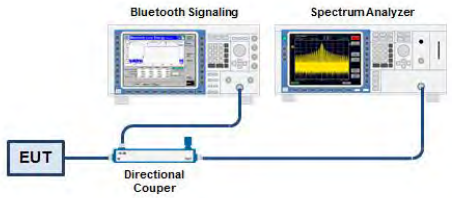
Test Information	
Reference	ISED RSS-Gen, Issue 5 (section 6.7)
Measurement Method	ANSI C63.10 6.9.3
Measurement Uncertainty	± 1.26 %
Test Sample ID	34394
Operator	Florian Voigt
Date	2021-08-23

3.1.2 Limits

Limits
None (Informational only)

3.1.3 Setup

Test Setup



3.1.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable	Huber+Suhner	Sucoflex	EF00779 CAABQ	2020-12	2021-12
Cable (only signaling)	Gigalane	1730	EF00779 CAABB	2020-12	2021-12
Dual directional coupler	Krytar	SMA, 1850	EF01539	2021-07	2022-07

3.1.5 Procedure

Test Procedure

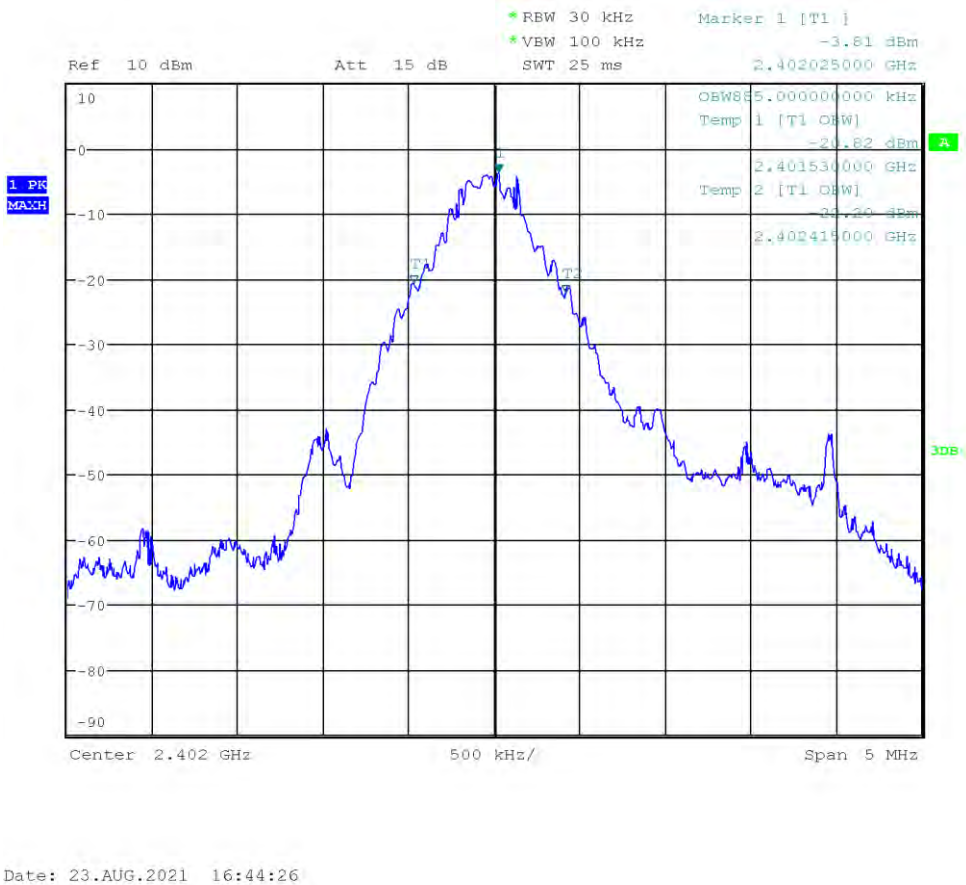
1. EUT transmitter is activated in test mode under normal conditions
2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum
3. The resolution bandwidth is set to the range of 1 % to 5 % of the occupied bandwidth
4. The occupied bandwidth is measured with the build-in analyzer function

3.1.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
DH5	2402	0.885
DH5	2441	0.880
DH5	2480	0.885
2-DH5	2402	1.165
2-DH5	2441	1.170
2-DH5	2480	1.170
3-DH5	2402	1.175
3-DH5	2441	1.175
3-DH5	2480	1.175

Occupied Bandwidth

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Occupied Bandwidth [MHz]:	0.885



Occupied Bandwidth

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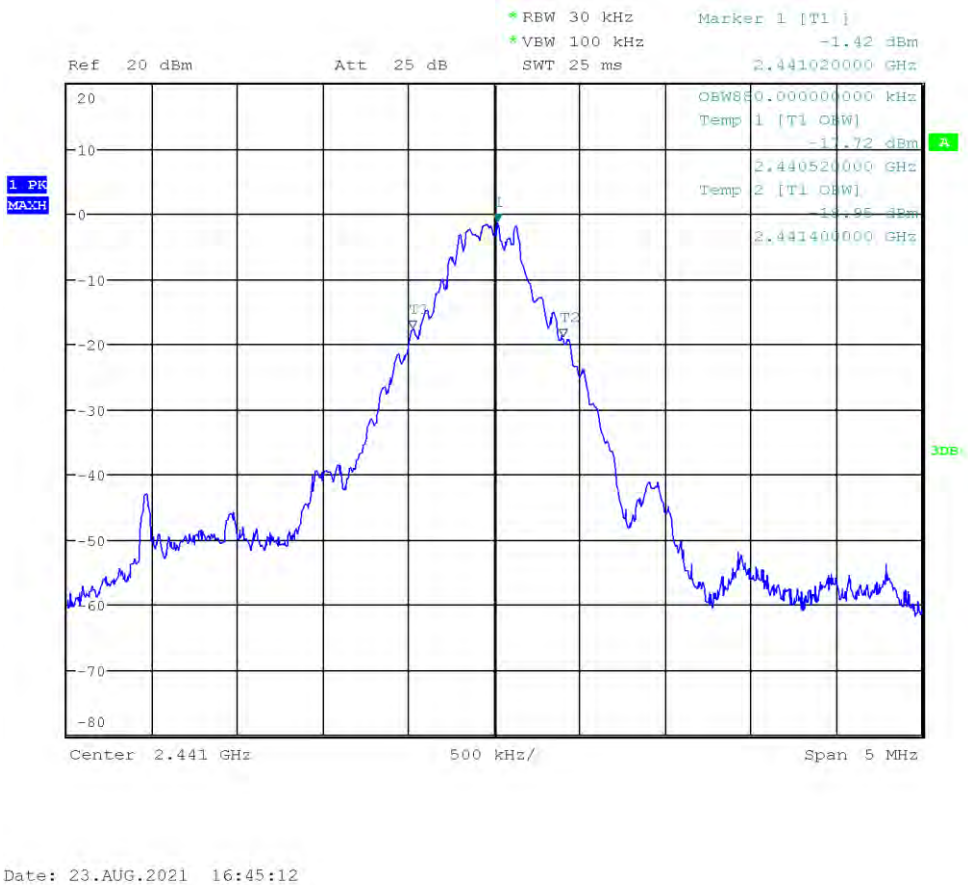
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	DH5, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Occupied Bandwidth [MHz]:	0.880



Occupied Bandwidth

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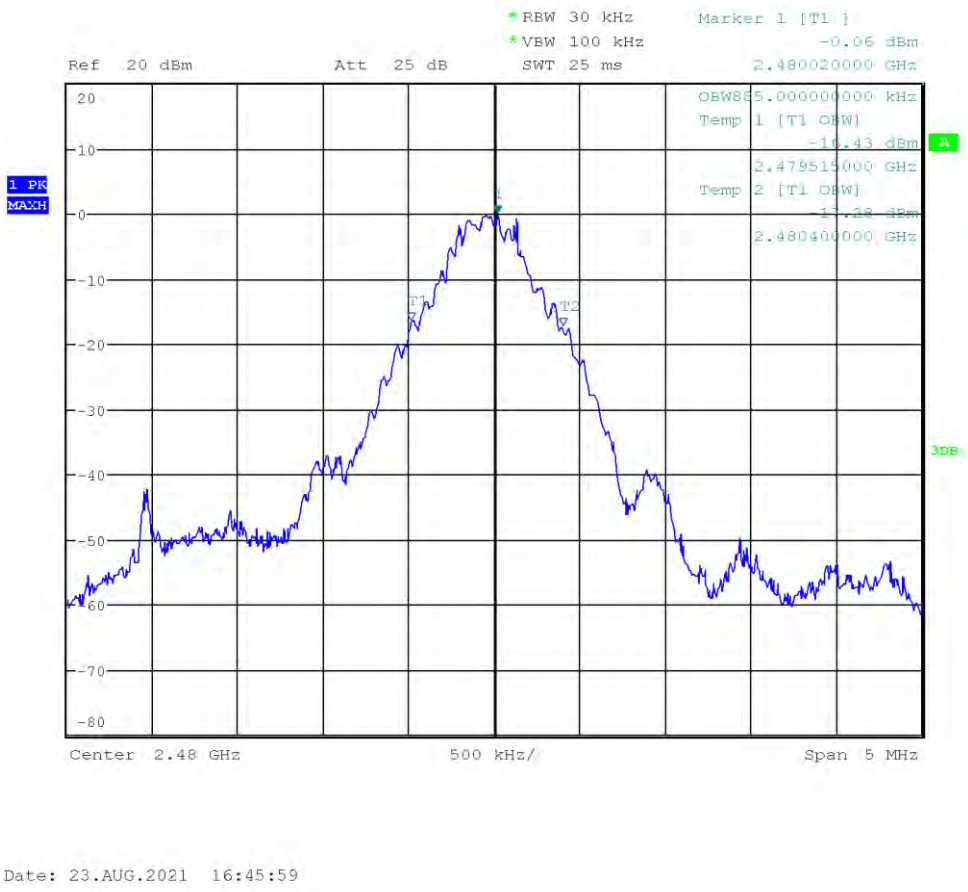
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Occupied Bandwidth [MHz]:	0.885



Occupied Bandwidth

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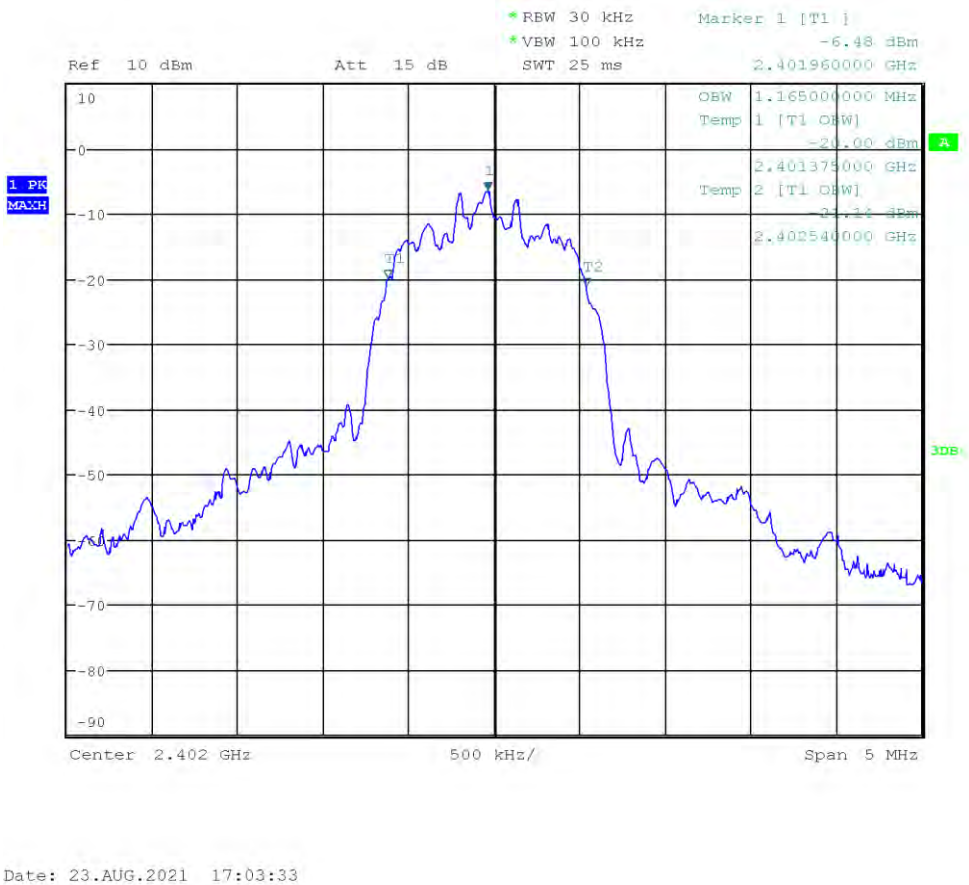
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	2-DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Occupied Bandwidth [MHz]:	1.165



Occupied Bandwidth

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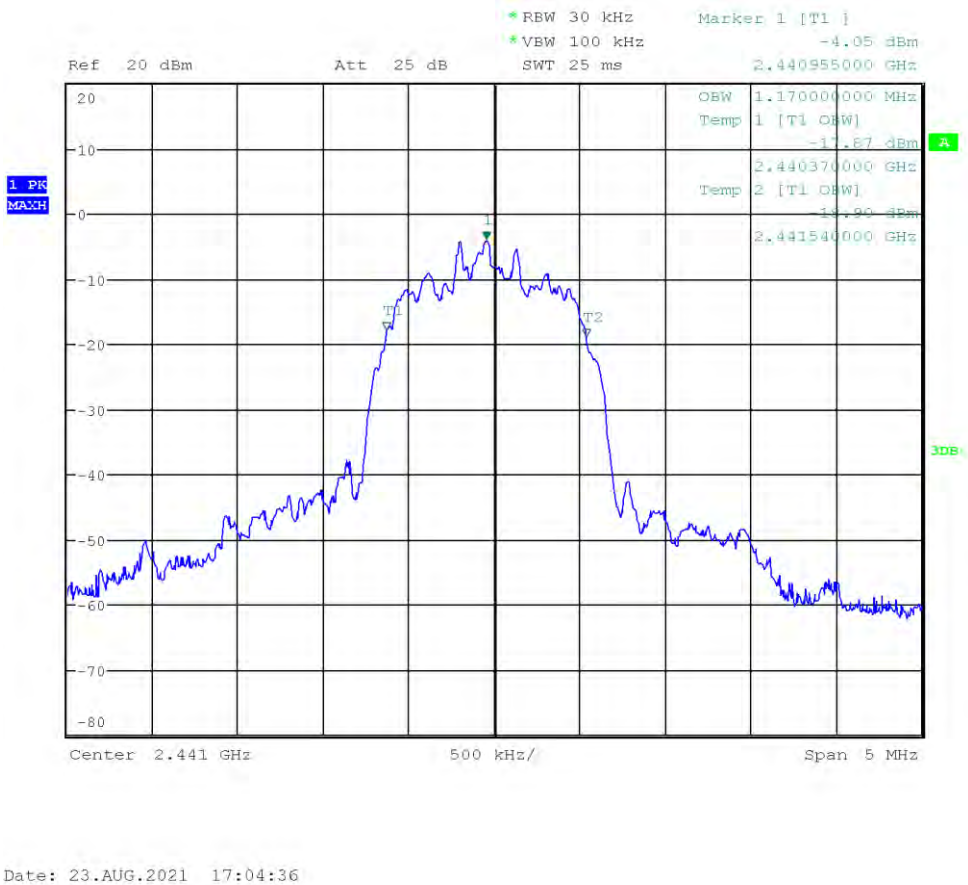
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	2-DH5, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Occupied Bandwidth [MHz]:	1.170



Occupied Bandwidth

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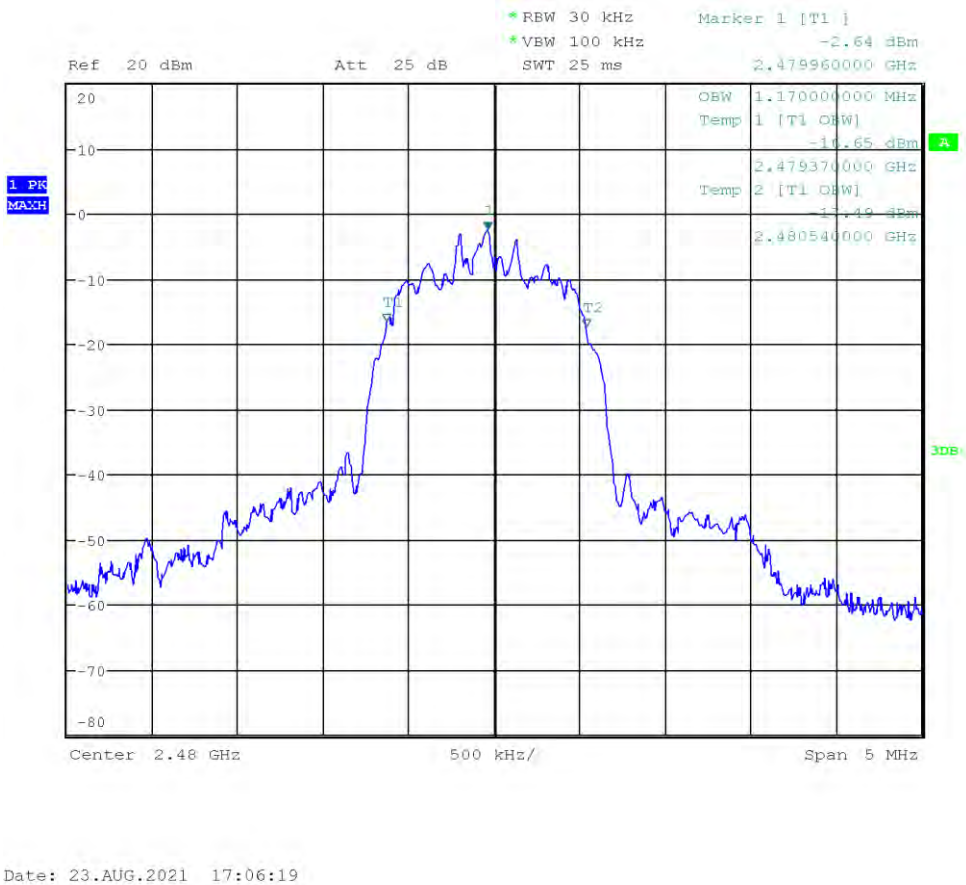
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	2-DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Occupied Bandwidth [MHz]:	1.170



Occupied Bandwidth

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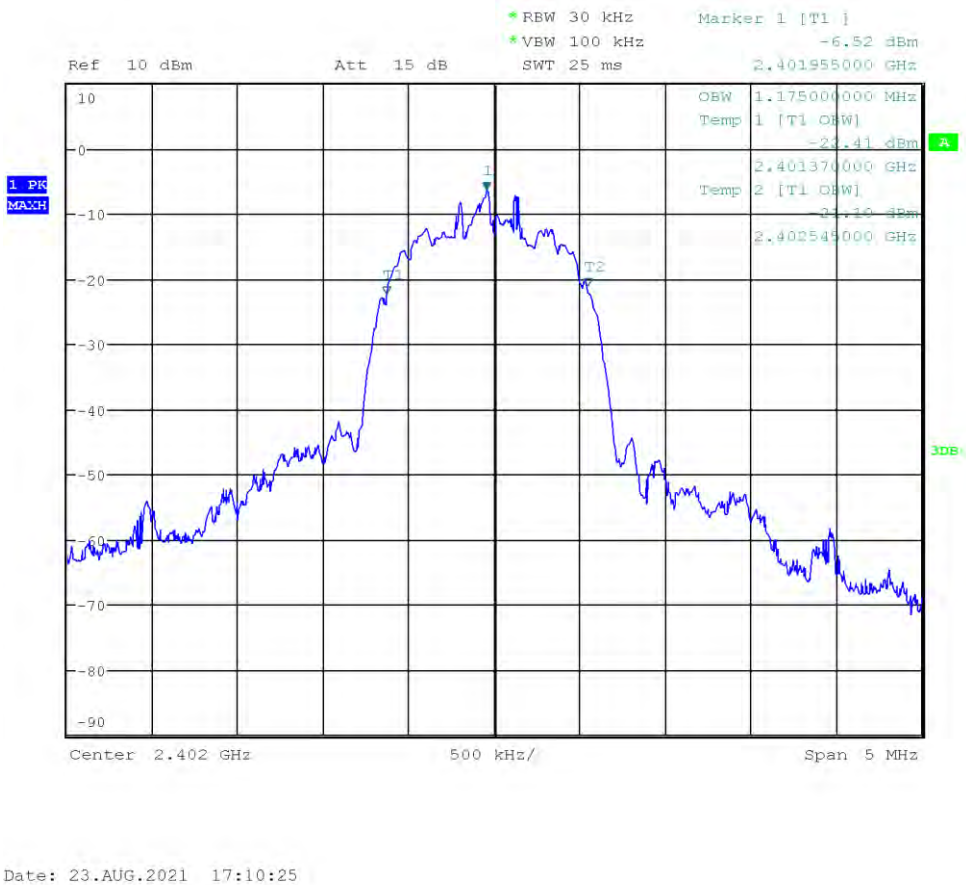
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	3-DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Occupied Bandwidth [MHz]:	1.175



Occupied Bandwidth

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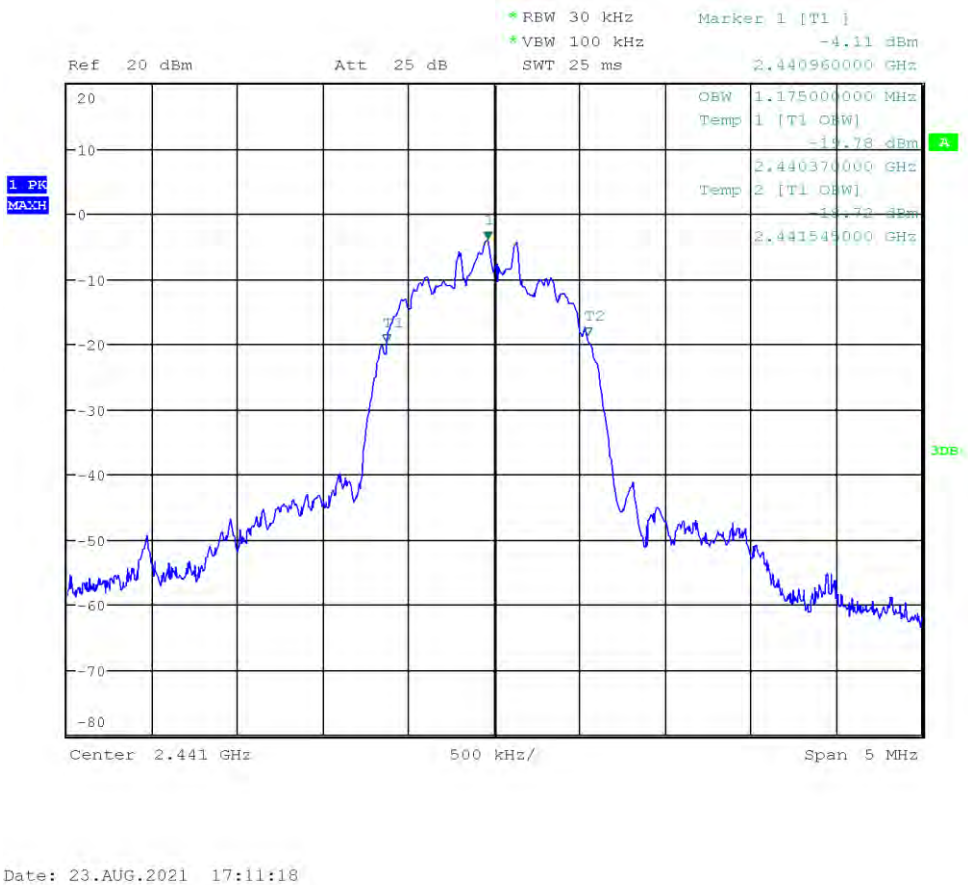
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	3-DH5, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Occupied Bandwidth [MHz]:	1.175



Occupied Bandwidth

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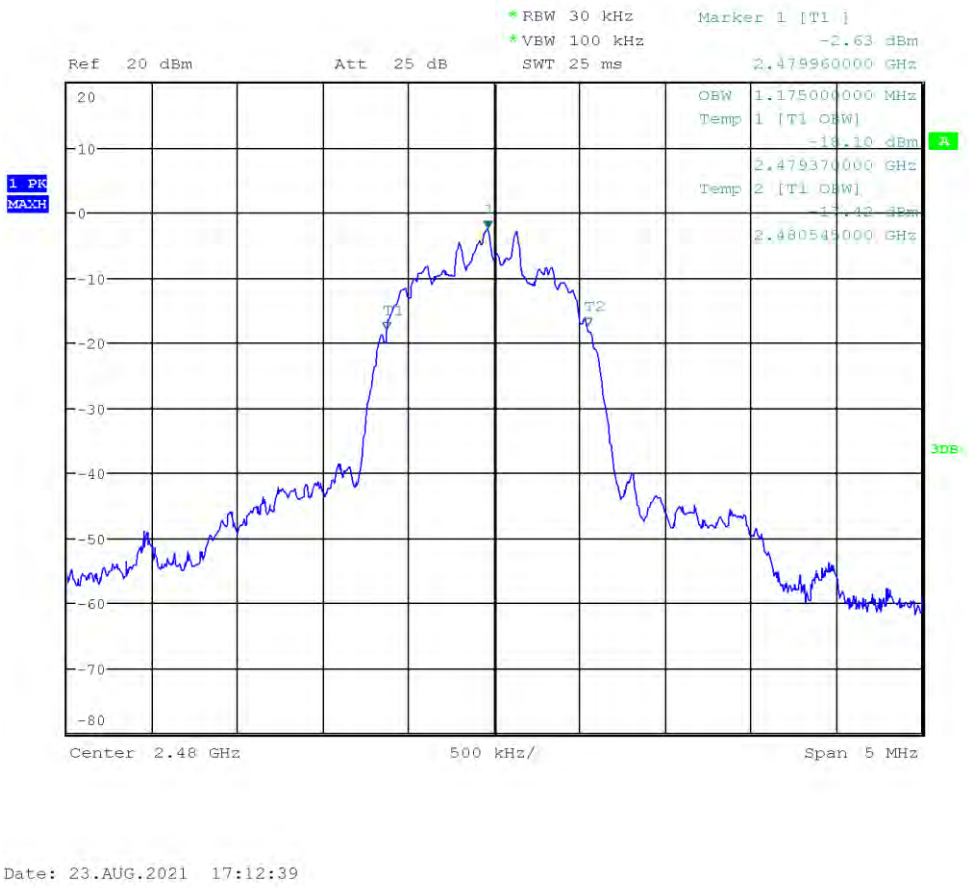
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	3-DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Occupied Bandwidth [MHz]:	1.175



3.2 Test Conditions and Results - 20 dB bandwidth

3.2.1 Information

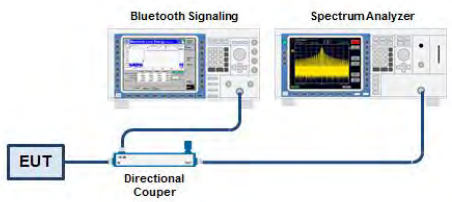
Test Information	
Reference	FCC 15.247(a)(1) / ISED RSS-247 5.1
Measurement Method	ANSI C63.10 6.9.2
Measurement Uncertainty	± 1.26 %
Test Sample ID	34394
Operator	Florian Voigt
Date	2021-08-23

3.2.2 Limits

Limits
None (Informational only)

3.2.3 Setup

Test Setup



3.2.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable	Huber+Suhner	Sucoflex	EF00779 CAABQ	2020-12	2021-12
Cable (only signaling)	Gigalane	1730	EF00779 CAABB	2020-12	2021-12
Dual directional coupler	Krytar	SMA, 1850	EF01539	2021-07	2022-07

3.2.5 Procedure

Test Procedure

1. EUT set to test mode (Communication tester is used if needed)
2. Span set to at least twice the emission spectrum
3. Detector set to peak and max hold
4. Envelope peak value of emission spectrum is selected
5. Marker on envelope of spectrum is set to level of -20 dB to the left of the peak
6. Marker on envelope of spectrum is set to level of -20 dB to the right of the peak
7. 20dB Bandwidth is determined by marker frequency separation

3.2.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
DH5	2402	0.963
DH5	2441	0.972
DH5	2480	1.014
2-DH5	2402	1.302
2-DH5	2441	1.302
2-DH5	2480	1.299
3-DH5	2402	1.299
3-DH5	2441	1.302
3-DH5	2480	1.299

20 dB Bandwidth

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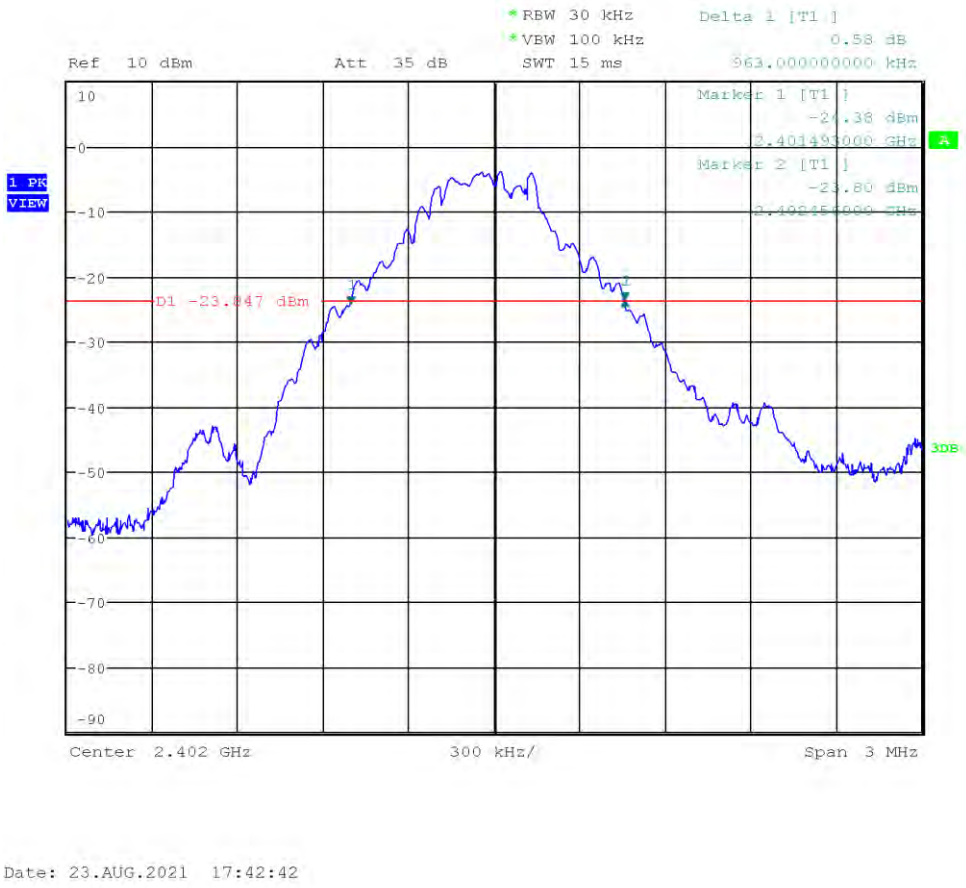
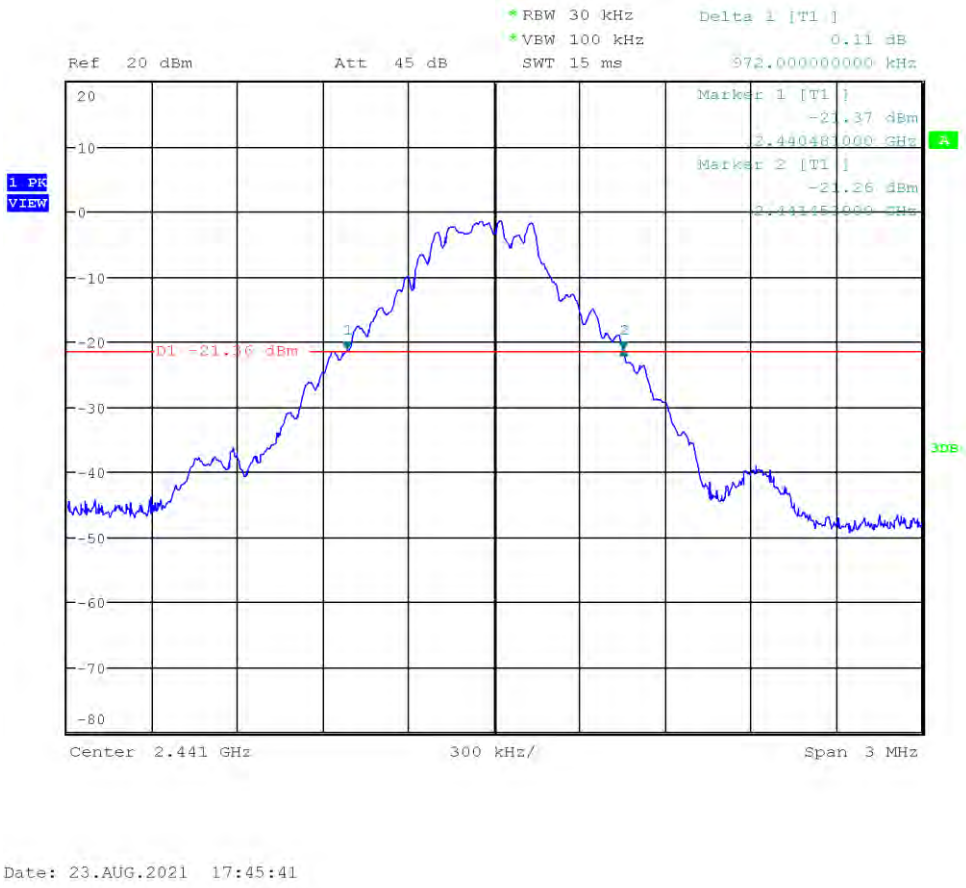
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.2
Operational Mode:	DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency [MHz]:	2401.493
Upper Frequency [MHz]:	2402.456
20 dB Bandwidth [MHz]:	0.963



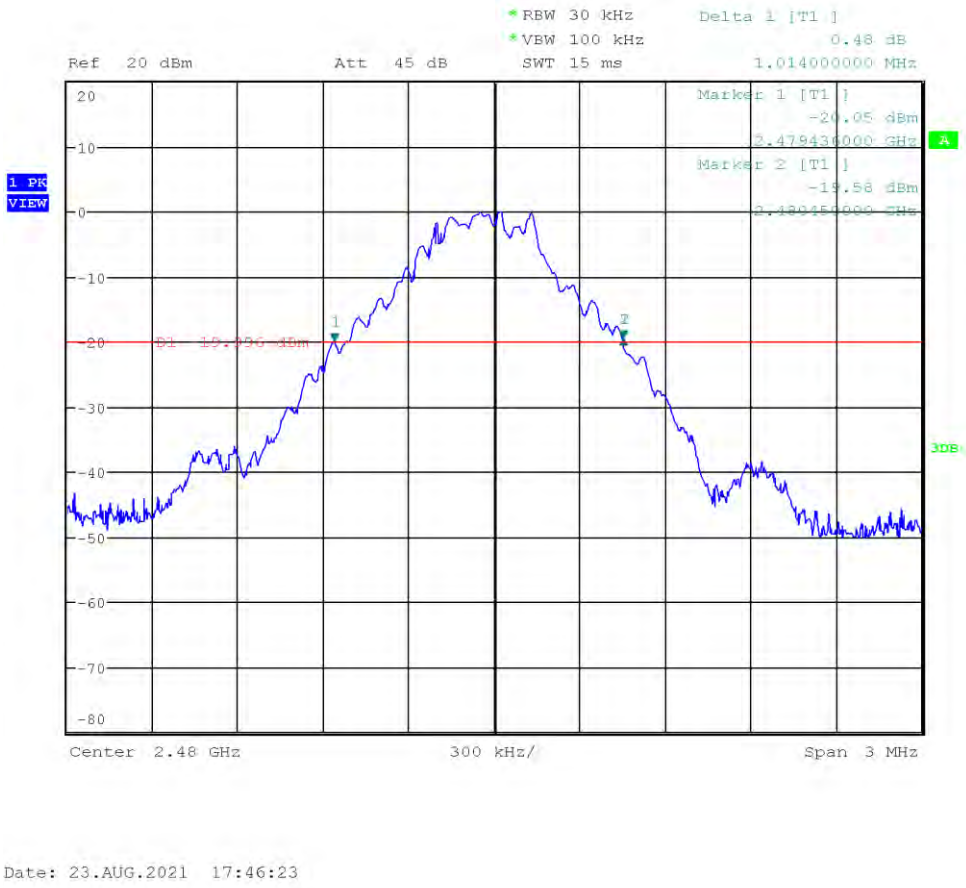
20 dB Bandwidth

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.2
Operational Mode:	DH5, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency [MHz]:	2440.481
Upper Frequency [MHz]:	2441.453
20 dB Bandwidth [MHz]:	0.972



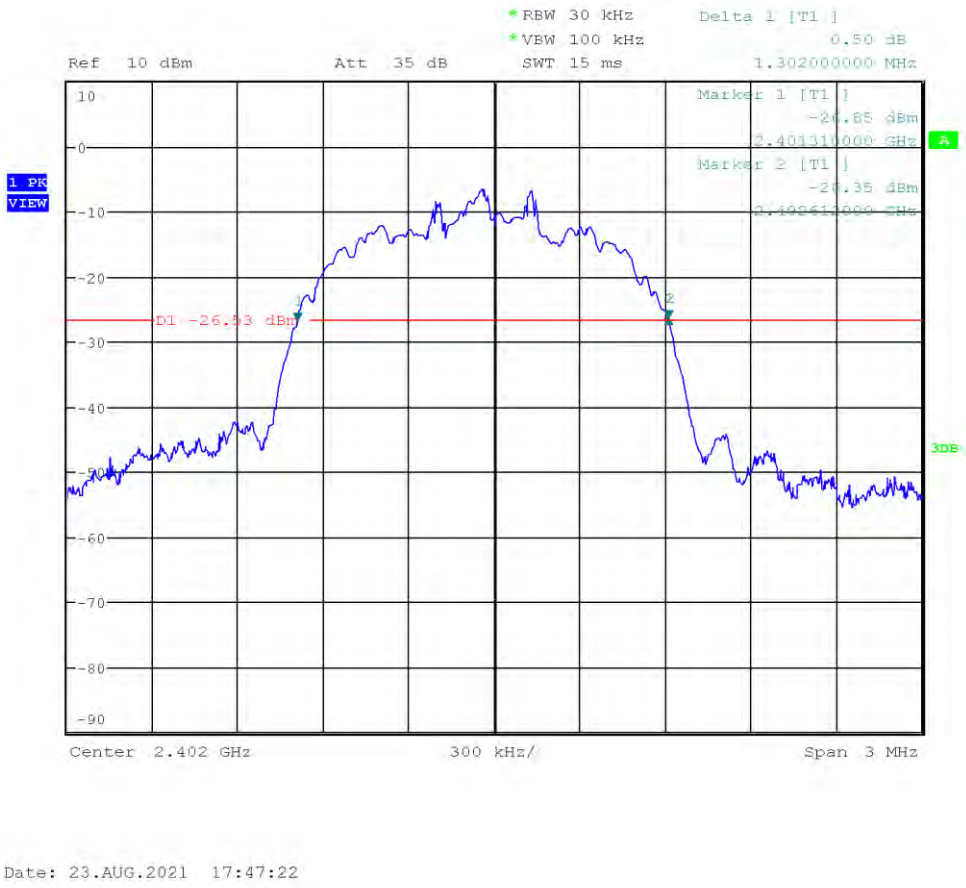
20 dB Bandwidth

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.2
Operational Mode:	DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency [MHz]:	2479.436
Upper Frequency [MHz]:	2480.450
20 dB Bandwidth [MHz]:	1.014



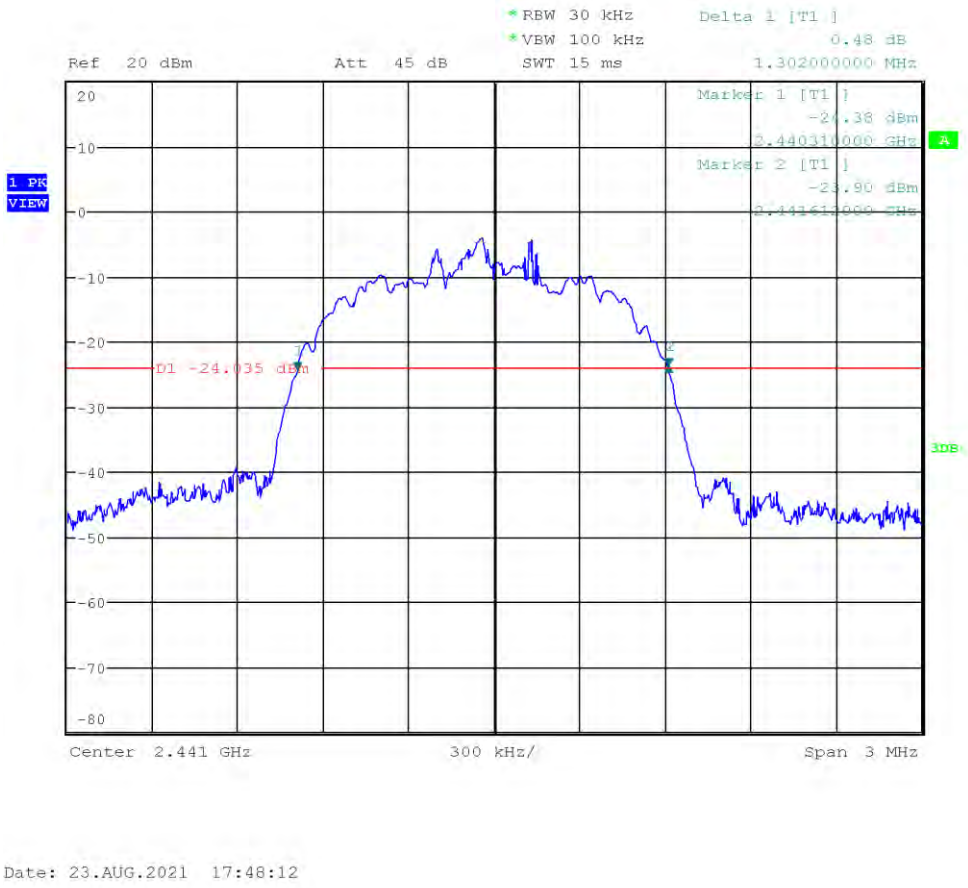
20 dB Bandwidth

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.2
Operational Mode:	2-DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency [MHz]:	2401.310
Upper Frequency [MHz]:	2402.612
20 dB Bandwidth [MHz]:	1.302



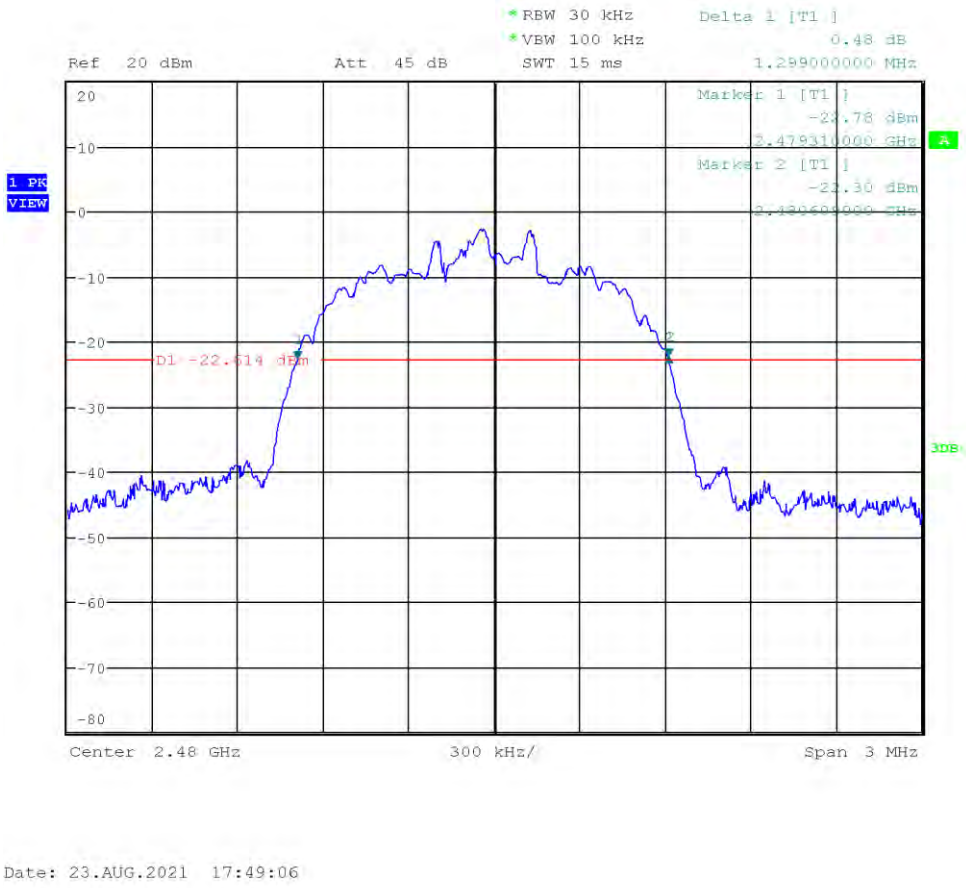
20 dB Bandwidth

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.2
Operational Mode:	2-DH5, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency [MHz]:	2440.310
Upper Frequency [MHz]:	2441.612
20 dB Bandwidth [MHz]:	1.302



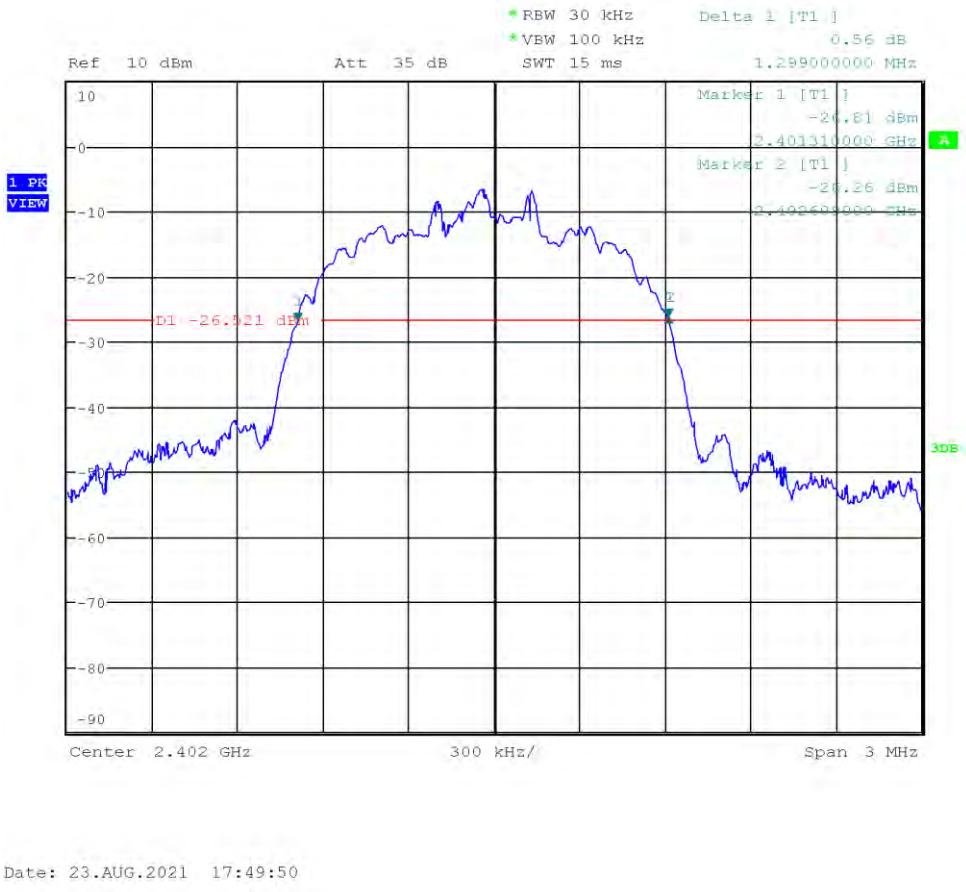
20 dB Bandwidth

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.2
Operational Mode:	2-DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency [MHz]:	2479.310
Upper Frequency [MHz]:	2480.609
20 dB Bandwidth [MHz]:	1.299



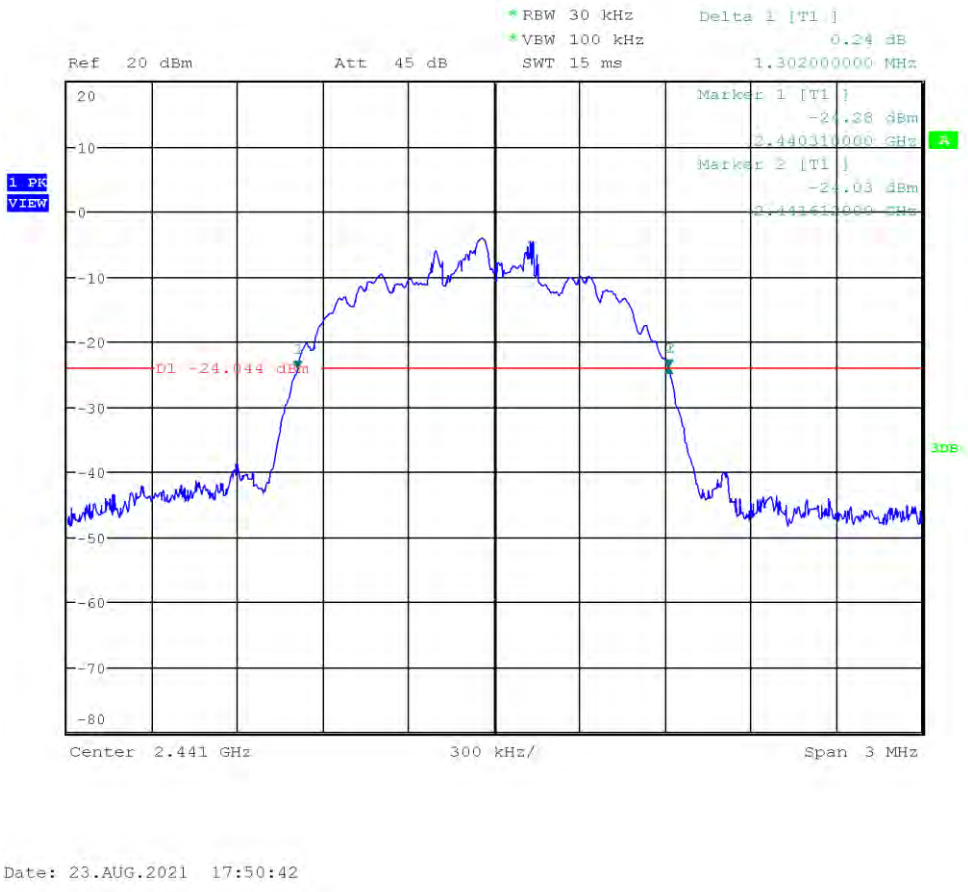
20 dB Bandwidth

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.2
Operational Mode:	3-DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency [MHz]:	2401.310
Upper Frequency [MHz]:	2402.609
20 dB Bandwidth [MHz]:	1.299



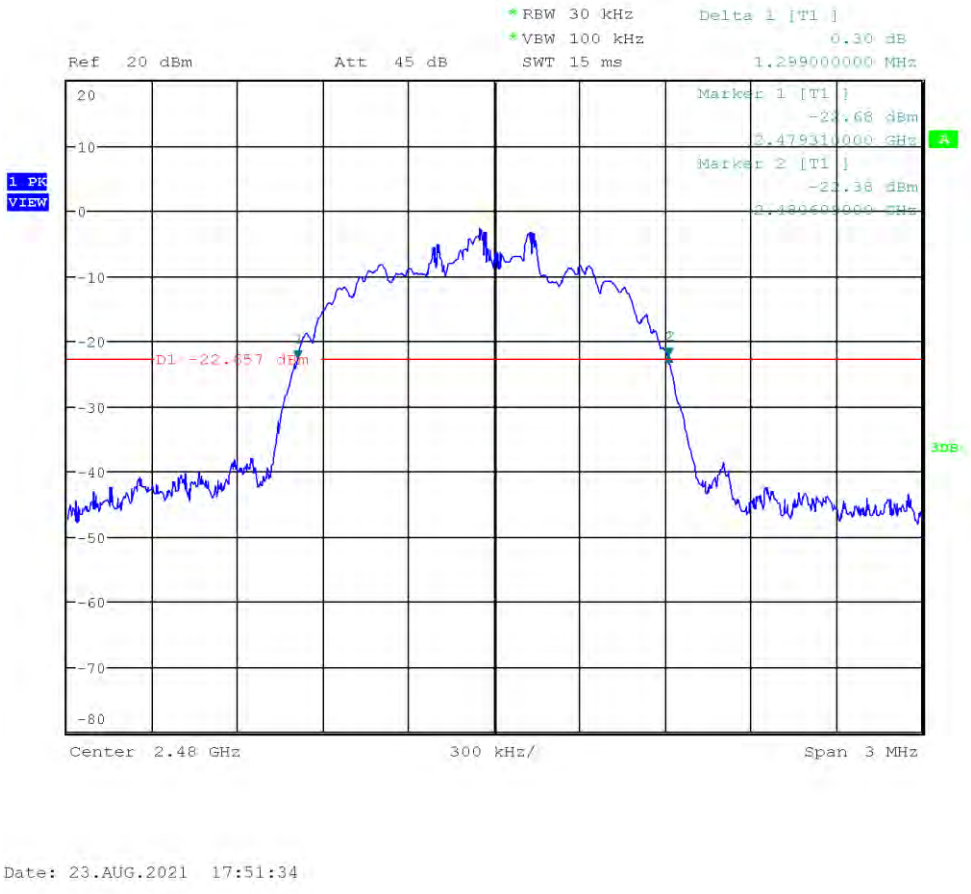
20 dB Bandwidth

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.2
Operational Mode:	3-DH5, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency [MHz]:	2440.310
Upper Frequency [MHz]:	2441.612
20 dB Bandwidth [MHz]:	1.302



20 dB Bandwidth

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.2
Operational Mode:	3-DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency [MHz]:	2479.310
Upper Frequency [MHz]:	2480.609



3.3 Test Conditions and Results - Number of hopping frequencies

3.3.1 Information

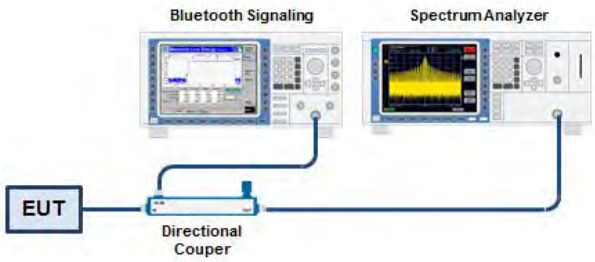
Test Information	
Reference	FCC § 15.247(a)(1)(iii); ISED RSS-247, Issue 2 (section 5.1)
Measurement Method	ANSI C63.10 7.8.3
Operator	Florian Voigt
Date	2021-08-23

3.3.2 Limits

Limits
≥ 15

3.3.3 Setup

Test Setup



3.3.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable	Huber+Suhner	Sucoflex	EF00779 CAABQ	2020-12	2021-12
Cable (only signaling)	Gigalane	1730	EF00779 CAABB	2020-12	2021-12
Dual directional coupler	Krytar	SMA, 1850	EF01539	2021-07	2022-07

3.3.5 Procedure

Test Procedure

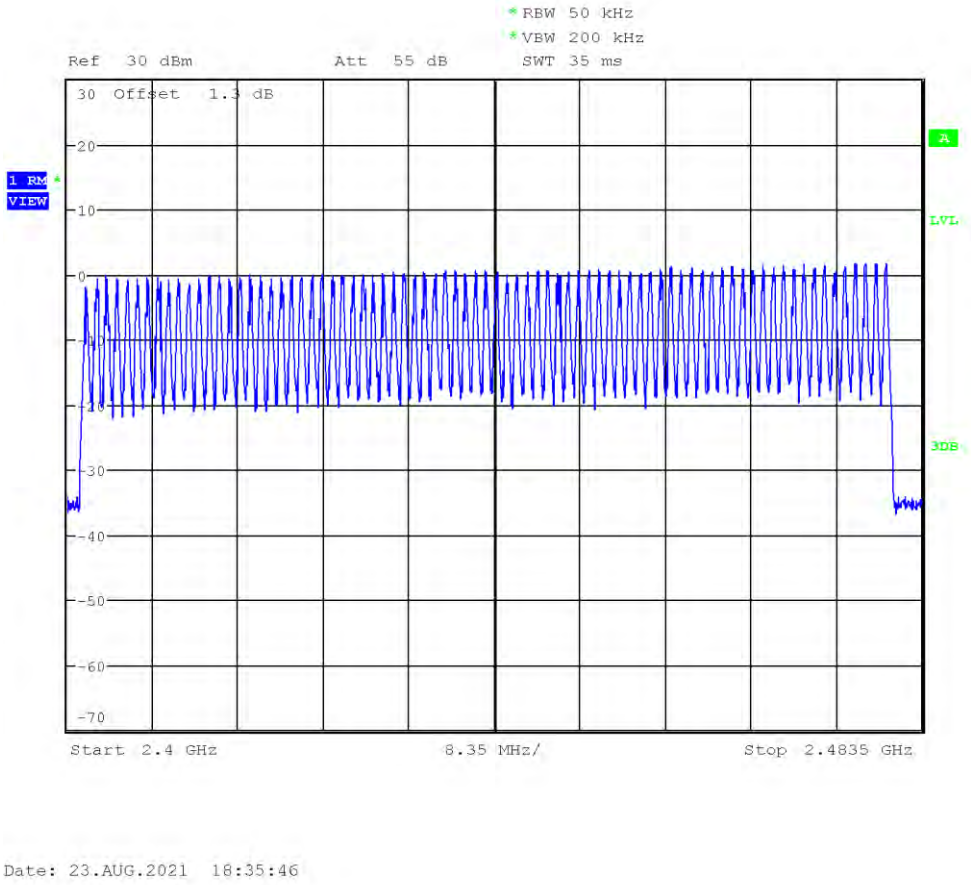
1. EUT set to test mode (Communication tester is used if needed)
2. Span set to measurement frequency range
3. Detector set to peak and max hold
4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra
5. The number of peaks is counted to determine number of hopping frequencies

3.3.6 Results

Test Results		
Number of hopping frequencies	Limit	Verdict
79	15	PASS

Number of hopping frequencies

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.27 (a)(1)(iii)
Reference Method:	ANSI C63.10:2013 7.8.3
Operational Mode:	Bluetooth, DH5, Hopping Mode
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Number of Hopping Channels:	79



3.4 Test Conditions and Results - Frequency hopping channel separation

3.4.1 Information

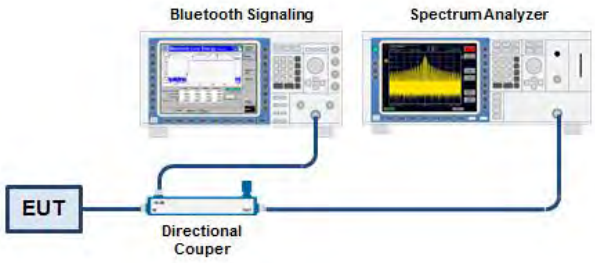
Test Information	
Reference	FCC § 15.247(a)(1); ISED RSS-247, Issue 2 (section 5.1)
Measurement Method	ANSI C63.10 7.8.4
Measurement Uncertainty	± 3.14 %
Operator	Florian Voigt
Date	2021-08-23

3.4.2 Limits

Limit
≥ 25 kHz or ⅔ of 20 dB bandwidth

3.4.3 Setup

Test Setup



3.4.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable	Huber+Suhner	Sucoflex	EF00779 CAABQ	2020-12	2021-12
Cable (only signaling)	Gigalane	1730	EF00779 CAABB	2020-12	2021-12
Dual directional coupler	Krytar	SMA, 1850	EF01539	2021-07	2022-07

3.4.5 Procedure

Test Procedure

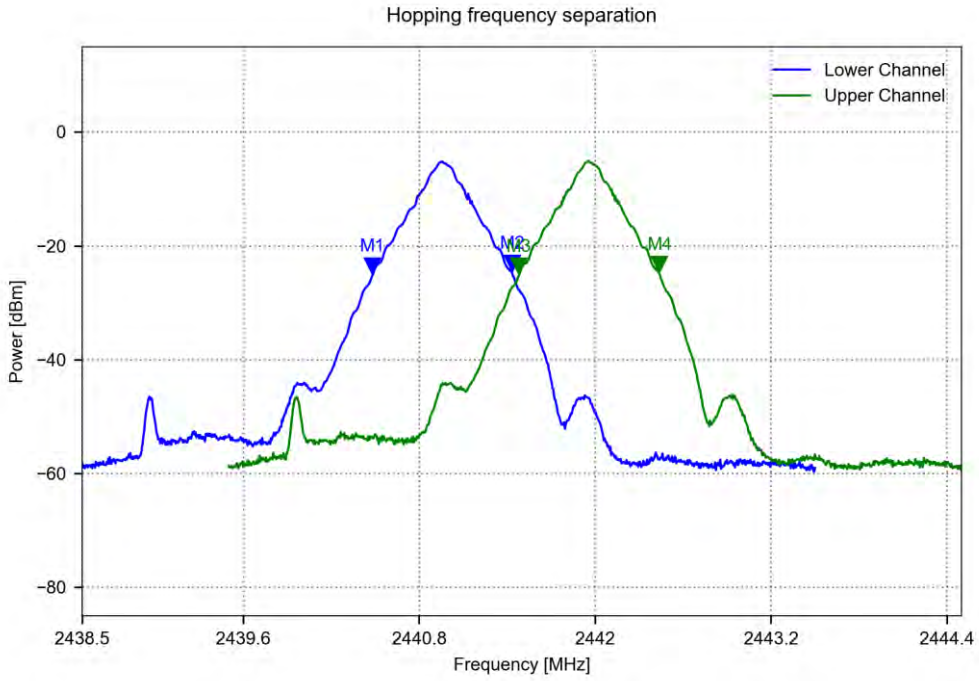
1. EUT set to test mode (Communication tester is used if needed)
2. Span set to measurement frequency range
3. Detector set to peak and max hold
4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra
5. The two adjacent channel peaks are marked
6. Channel separation is determined from frequency separation of markers

3.4.6 Results

Test Results		
Channel separation [kHz]	Limit [kHz]	Verdict
1000	≥ ⅔ · 921.80 = 614.53	PASS

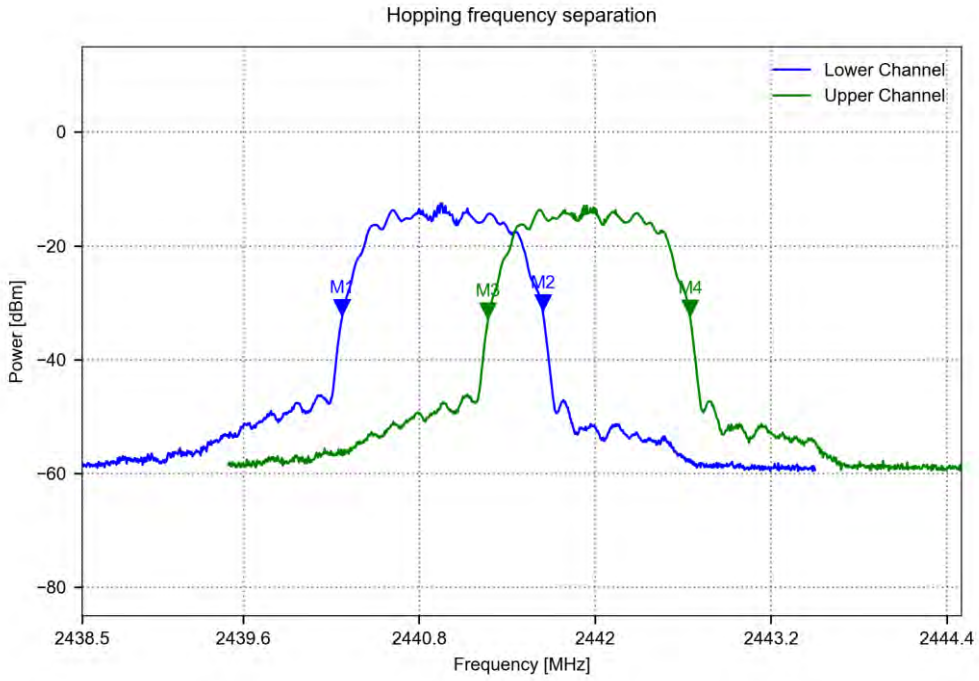
Hopping frequency separation

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247(a)(1)
Reference Method:	ANSI C63.10:2013 7.8.2
Operational Mode:	Bluetooth, DH5, Channels: 2441 + 2442 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency (M1) [MHz]:	2440.480
Upper Frequency (M2) [MHz]:	2441.435
Lower Frequency (M3) [MHz]:	2441.480
Upper Frequency (M4) [MHz]:	2442.440
Lower center Frequency [MHz]:	2440.957
Upper center Frequency [MHz]:	2441.960
Hopping Frequency Separation [MHz]:	1.003



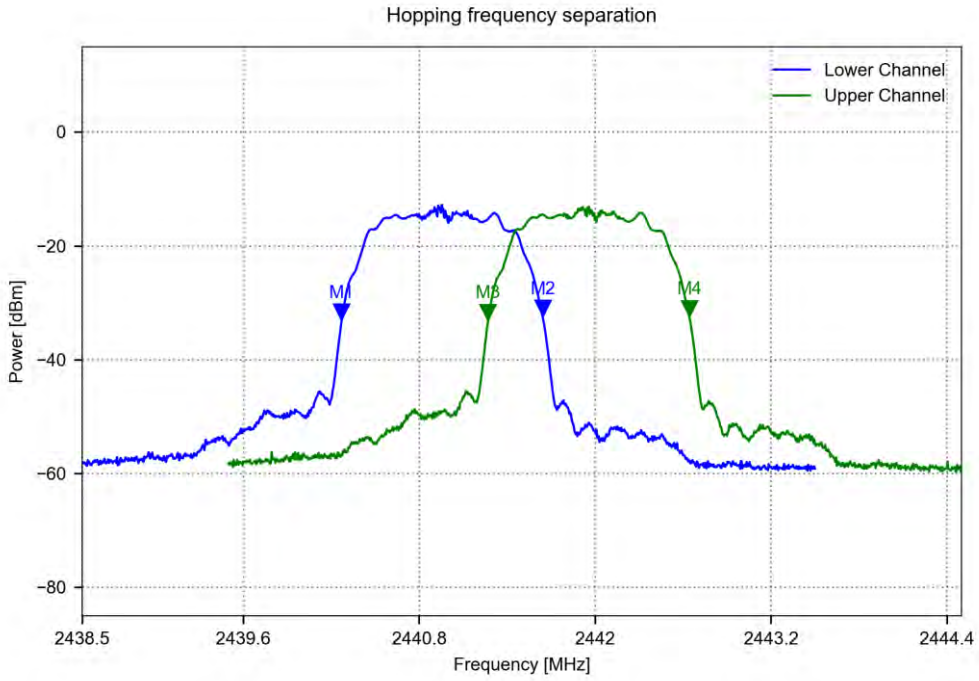
Hopping frequency separation

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247(a)(1)
Reference Method:	ANSI C63.10:2013 7.8.2
Operational Mode:	Bluetooth, 2-DH5, Channels: 2441 + 2442 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency (M1) [MHz]:	2440.275
Upper Frequency (M2) [MHz]:	2441.645
Lower Frequency (M3) [MHz]:	2441.270
Upper Frequency (M4) [MHz]:	2442.650
Lower center Frequency [MHz]:	2440.960
Upper center Frequency [MHz]:	2441.960
Hopping Frequency Separation [MHz]:	1.000



Hopping frequency separation

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247(a)(1)
Reference Method:	ANSI C63.10:2013 7.8.2
Operational Mode:	Bluetooth, 3-DH5, Channels: 2441 + 2442 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Lower Frequency (M1) [MHz]:	2440.270
Upper Frequency (M2) [MHz]:	2441.645
Lower Frequency (M3) [MHz]:	2441.270
Upper Frequency (M4) [MHz]:	2442.645
Lower center Frequency [MHz]:	2440.957
Upper center Frequency [MHz]:	2441.957
Hopping Frequency Separation [MHz]:	1.000



3.5 Test Conditions and Results - Time of occupancy (Dwell time)

3.5.1 Information

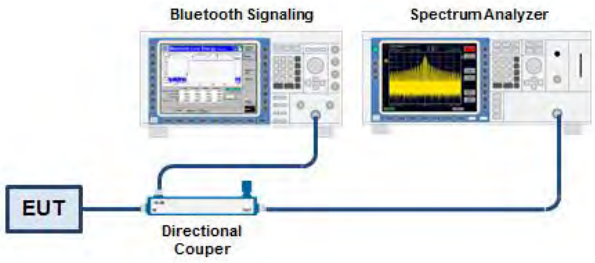
Test Information	
Reference	FCC § 15.247(a)(1)(iii); ISED RSS-247, Issue 2 (section 5.1)
Measurement Method	ANSI C63.10 7.8.2
Measurement Uncertainty	± 78.53 %
Operator	Florian Voigt
Date	2021-08-23

3.5.2 Limits

Limits
≤ 0.4 s within 0.4 s · Number of hopping channels

3.5.3 Setup

Test Setup



3.5.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable	Huber+Suhner	Sucoflex	EF00779 CAABQ	2020-12	2021-12
Cable (only signaling)	Gigalane	1730	EF00779 CAABB	2020-12	2021-12
Dual directional coupler	Krytar	SMA, 1850	EF01539	2021-07	2022-07

3.5.5 Procedure

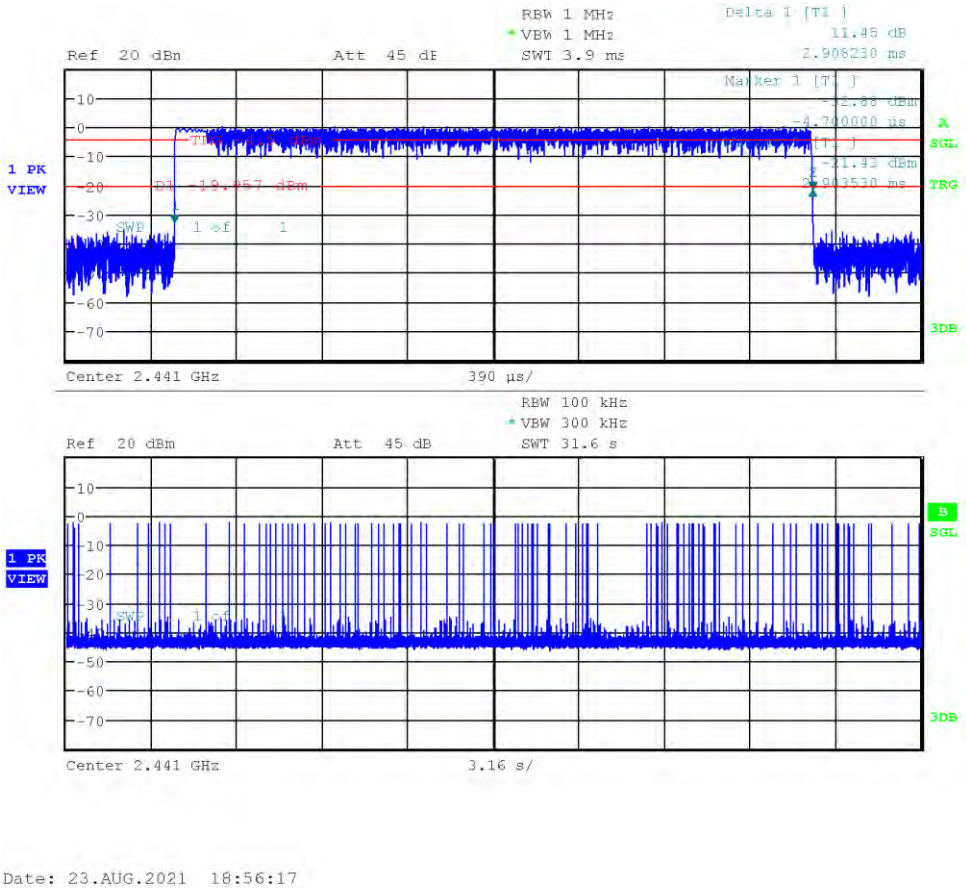
Test Procedure
1. EUT set to test hopping mode (Communication tester is used if needed)
2. Analyzer span is set to zero span
3. Detector set to peak and max hold
4. RBW is set to 100 kHz and VBW to 300 kHz
5. The sweep time is set to capture one single dwell time
6. Trigger is set to video trigger
7. A marker is set to the start and end positions of the burst
8. The dwell time is determined from the marker difference
9. Another sweep is initiated without trigger and sweep time set to the observation time
10. The number of hops is counted
11. The total time of occupancy is calculated from the dwell time per hop multiplied by the number of hops

3.5.6 Results

Test Results					
Observation Period [s]	Number of Hops	Dwell time per Hop [s]	Time of occupancy [s]	Limit [s]	Margin [s]
31.6	100	0.002908	0.291	0.4	-00.11

Time of occupancy

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Method:	ANSI C63.10:2013 7.8.4
Operational Mode:	3-DH5, Hopping mode
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Dwell Time per Hop [ms]:	2.908
Number of Hops:	100
Time of occupancy [s]:	0.291



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3.6 Test Conditions and Results - Maximum peak conducted output power

3.6.1 Information

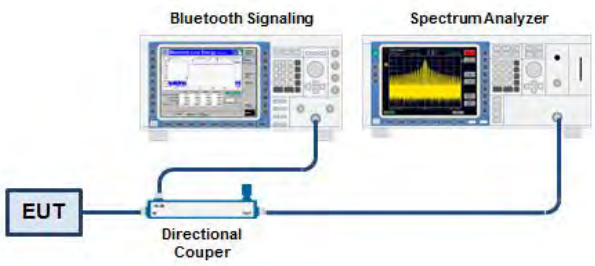
Test Information	
Reference	FCC § 15.247(b); ISED RSS-247, Issue 2 (section 5.4)
Measurement Method	ANSI C63.10 7.8.5
Measurement Uncertainty	± 2.86 dB
Operator	Florian Voigt
Date	2021-08-23

3.6.2 Limits

Limits	
Condition	Power
Number of hopping channels ≥ 75	1 W (30 dBm)
75 > Number of hopping channels ≥ 15	0.125 W (21 dBm)
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	

3.6.3 Setup

Test Setup



3.6.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable	Huber+Suhner	Sucoflex	EF00779 CAABQ	2020-12	2021-12
Cable (only signaling)	Gigalane	1730	EF00779 CAABB	2020-12	2021-12
Dual directional coupler	Krytar	SMA, 1850	EF01539	2021-07	2022-07

3.6.5 Procedure

Test Procedure

1. EUT set to test mode (Communication tester is used if needed)
2. Analyzer resolution bandwidth is set ≥ DTS bandwidth
3. Detector set to peak and max hold
4. Sweep time is set to auto
5. After the trace has stabilized a marker is set to peak of envelope

3.6.6 Results

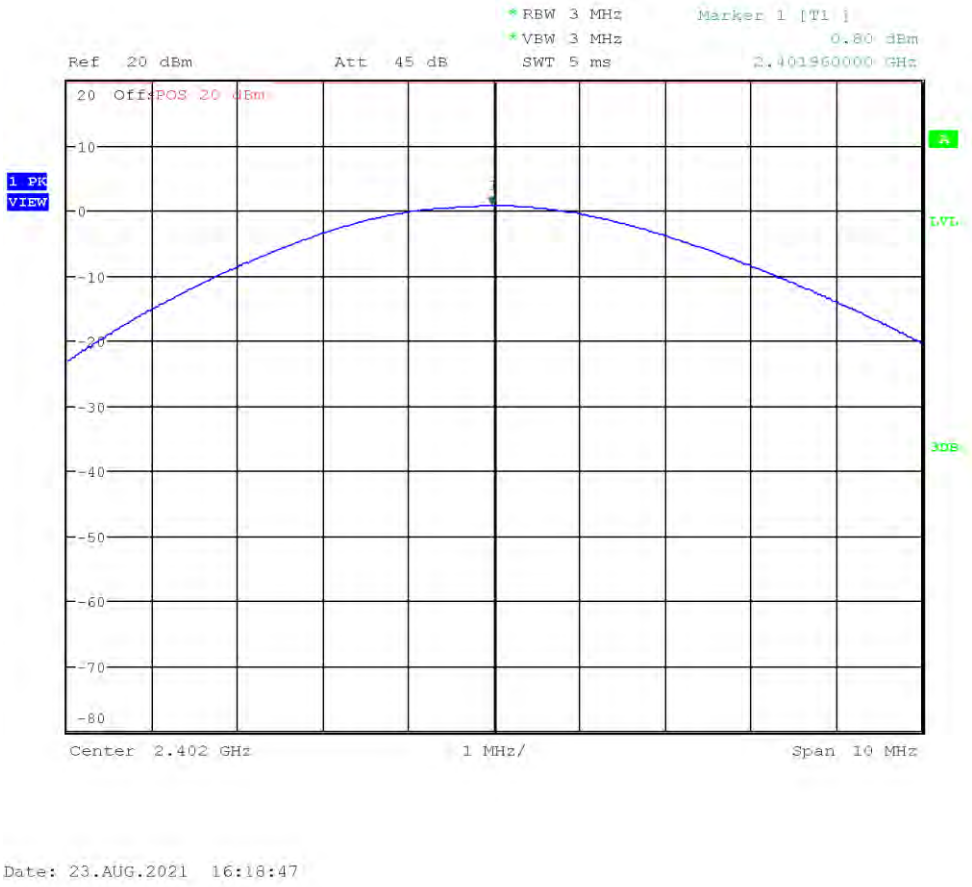
Test Results - DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	0.799	0.0012	1.0	PASS
2441	3.272	0.0021	1.0	PASS
2480	4.657	0.0029	1.0	PASS

Test Results - 2-DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	-0.738	0.0008	1.0	PASS
2441	1.767	0.0015	1.0	PASS
2480	3.165	0.0021	1.0	PASS

Test Results - 3-DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	-0.122	0.0010	1.0	PASS
2441	2.315	0.0017	1.0	PASS
2480	3.763	0.0024	1.0	PASS

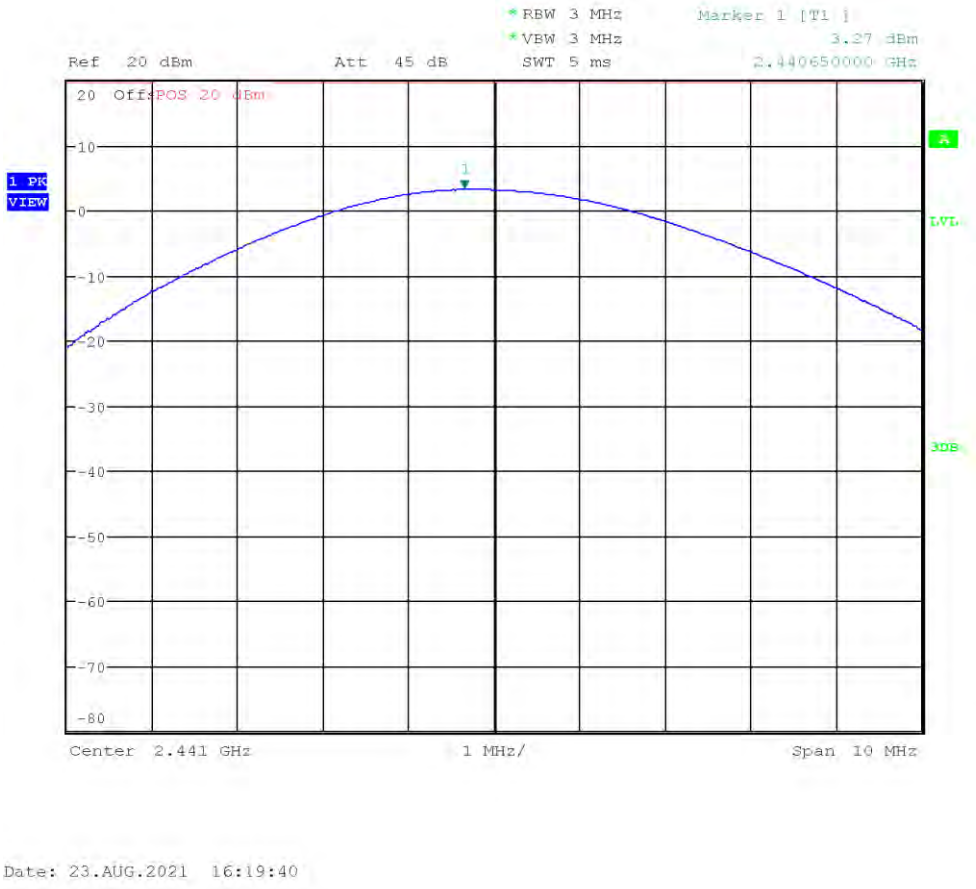
Peak Conducted Output Power

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.5
Operational Mode:	DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Peak Power [dBm]:	0.799
Peak Power [W]:	0.0012



Peak Conducted Output Power

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.5
Operational Mode:	DH5, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Peak Power [dBm]:	3.272
Peak Power [W]:	0.0021



Peak Conducted Output Power

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.5
Operational Mode:	DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Peak Power [dBm]:	4.657
Peak Power [W]:	0.0029

Peak Conducted Output Power

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.5
Operational Mode:	2-DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Peak Power [dBm]:	-0.738
Peak Power [W]:	0.0008

Peak Conducted Output Power

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.5
Operational Mode:	2-DH5, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Peak Power [dBm]:	1.767
Peak Power [W]:	0.0015

Peak Conducted Output Power

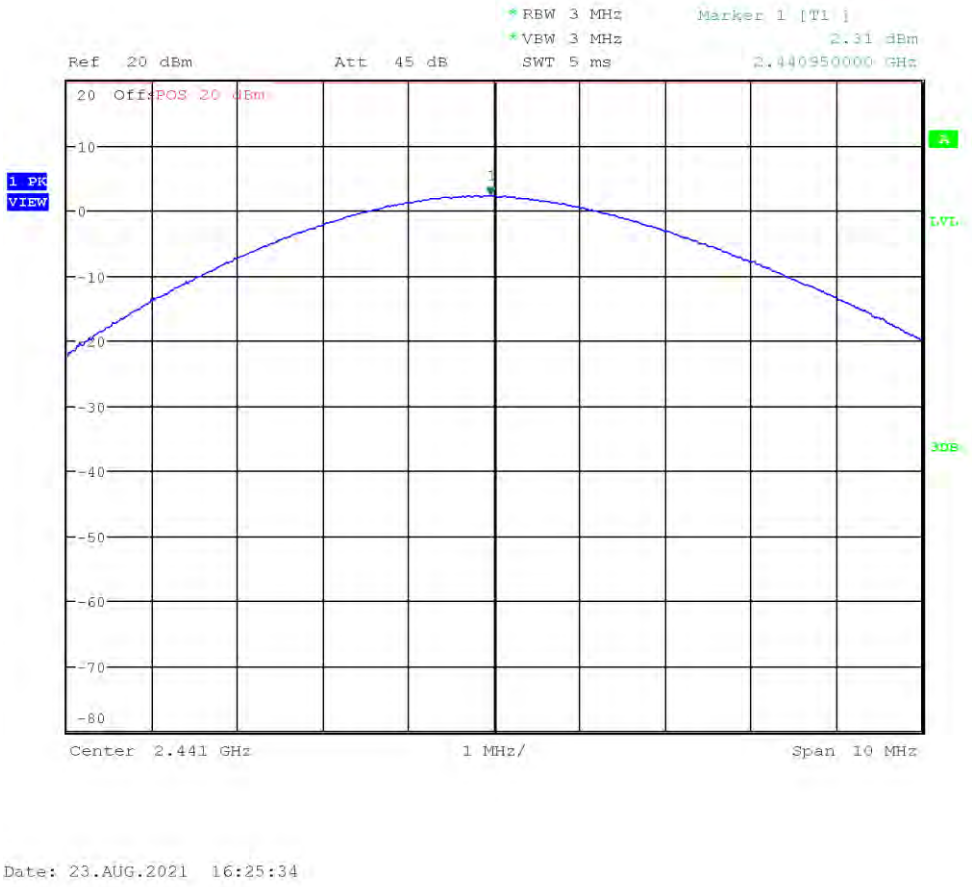
Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.5
Operational Mode:	2-DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Peak Power [dBm]:	3.165
Peak Power [W]:	0.0021

Peak Conducted Output Power

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.5
Operational Mode:	3-DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Peak Power [dBm]:	-0.122
Peak Power [W]:	0.0010

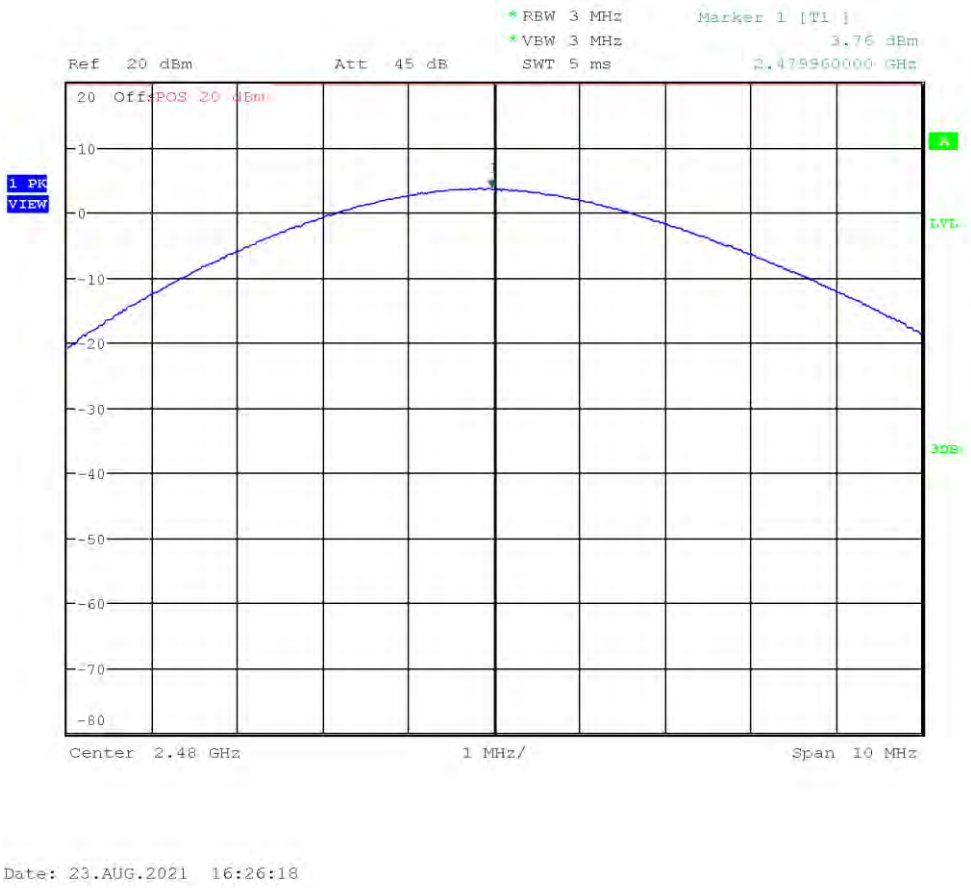
Peak Conducted Output Power

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.5
Operational Mode:	3-DH5, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Peak Power [dBm]:	2.315
Peak Power [W]:	0.0017



Peak Conducted Output Power

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.5
Operational Mode:	3-DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Peak Power [dBm]:	3.763



3.7 Test Conditions and Results - Band-edge compliance

3.7.1 Information

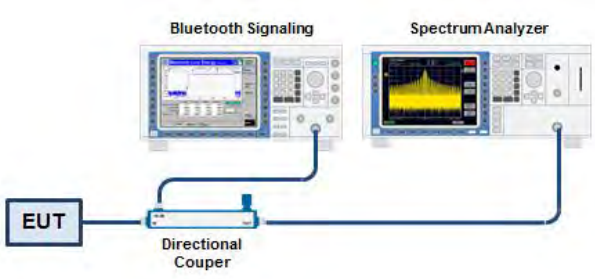
Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 2 (section 5.5)
Measurement Uncertainty	± 3.64 dB
Measurement Method	ANSI C63.10 6.10
Operator	Florian Voigt
Date	2021-08-23

3.7.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.7.3 Setup

Test Setup



3.7.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable	Huber+Suhner	Sucoflex	EF00779 CAABQ	2020-12	2021-12
Cable (only signaling)	Gigalane	1730	EF00779 CAABB	2020-12	2021-12
Dual directional coupler	Krytar	SMA, 1850	EF01539	2021-07	2022-07

3.7.5 Procedure

Test Procedure

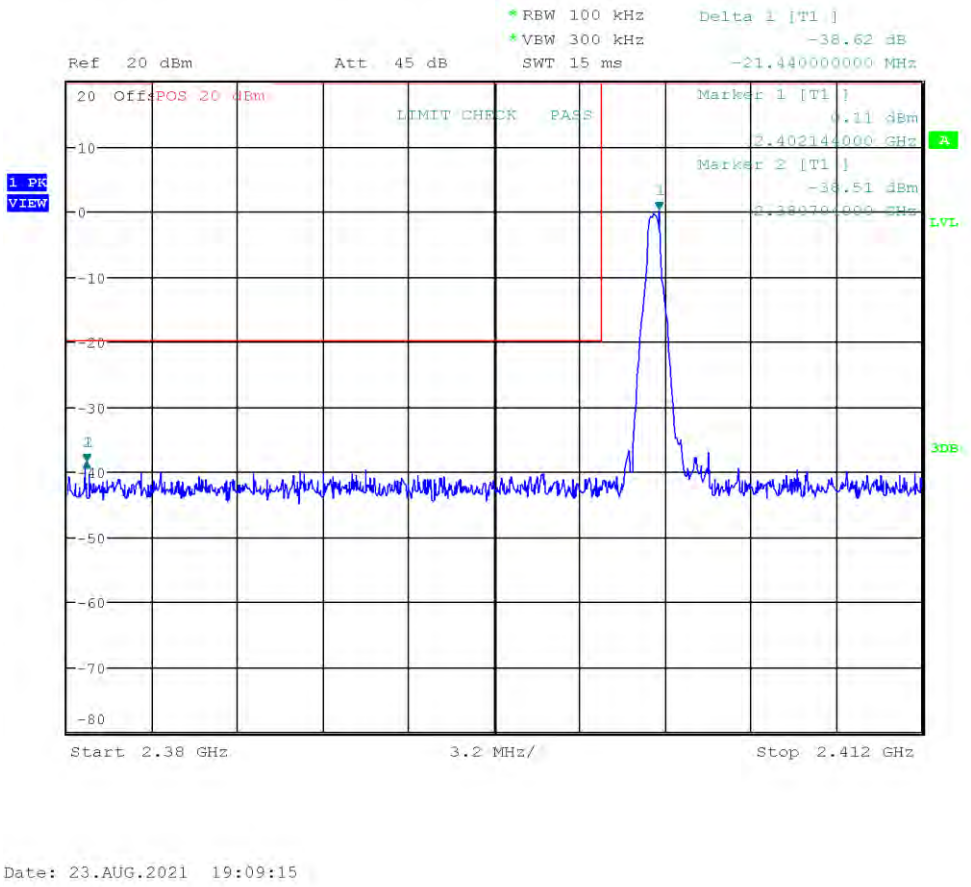
1. EUT set to test mode (Communication tester is used if needed)
2. Span set around lower band edge and detector is set to peak and max hold
3. Resolution bandwidth is set to 100 kHz
4. Markers are set to peak emission levels within frequency band and outside frequency band
5. Band edge attenuation is determined from level difference

3.7.6 Results

Test Results				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
DH5 single	2402	-38.62	-20	PASS
DH5 single	2480	-42.58	-20	PASS
DH5 hopping	2402	-40.30	-20	PASS
DH5 hopping	2480	-42.21	-20	PASS
2-DH5 single	2402	-44.80	-20	PASS
2-DH5 single	2480	-40.31	-20	PASS
2-DH5 hopping	2402	-37.17	-20	PASS
2-DH5 hopping	2480	-39.08	-20	PASS
3-DH5 single	2402	-36.91	-20	PASS
3-DH5 single	2480	-40.04	-20	PASS
3-DH5 hopping	2402	-37.18	-20	PASS
3-DH5 hopping	2480	-39.85	-20	PASS

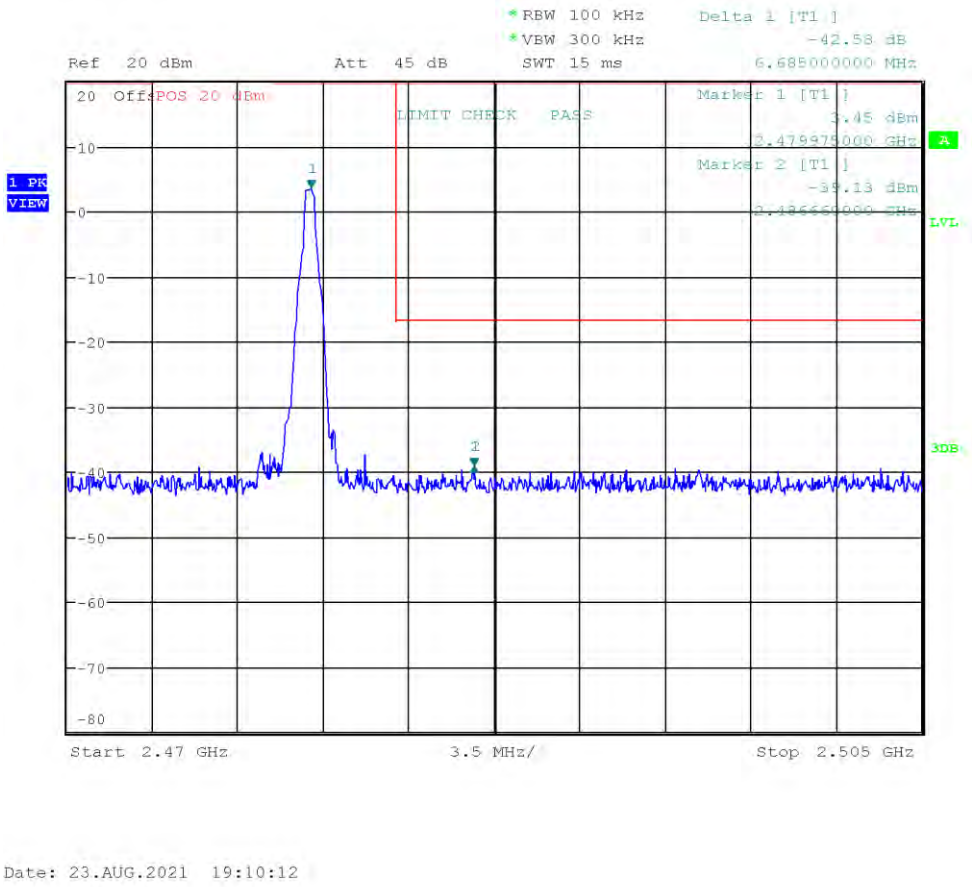
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Lower
In-band Frequency [MHz]:	2402.144
Max. in-band Level [dBm/100 kHz]:	0.11
Out-of-band Frequency [MHz]:	2380.704
Max. out-of-band Level [dBm/100 kHz]:	-38.51
Attenuation [dB]:	-38.62



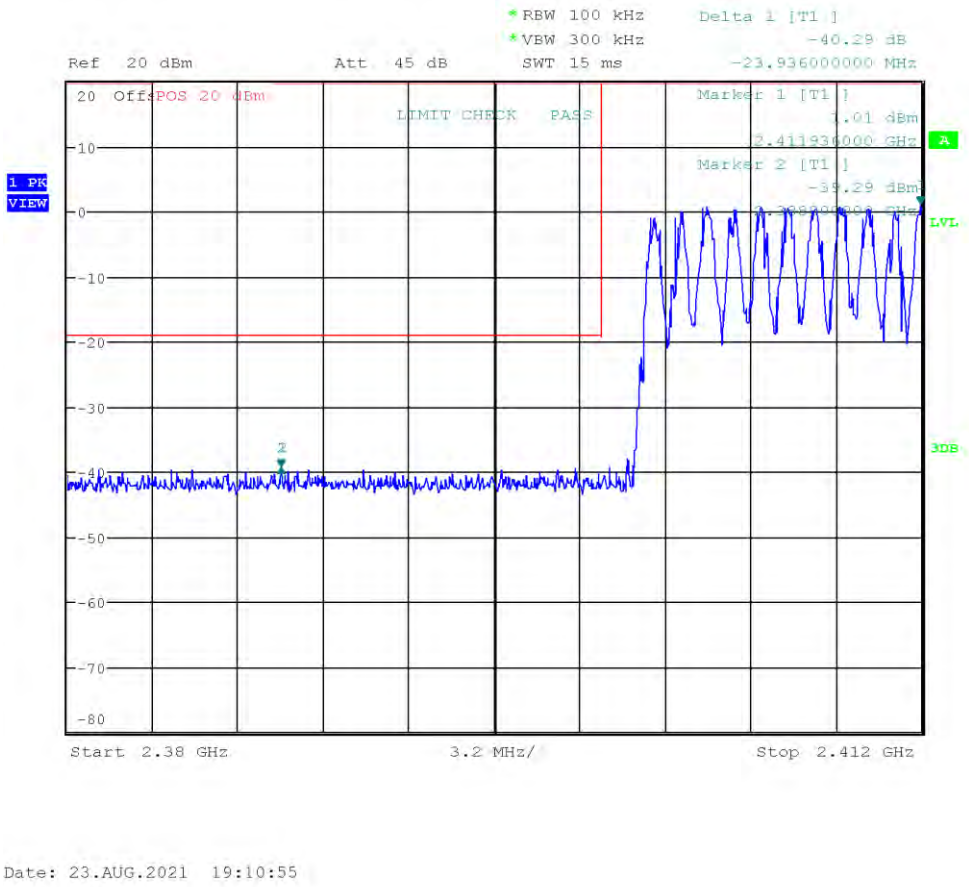
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Upper
In-band Frequency [MHz]:	2479.975
Max. in-band Level [dBm/100 kHz]:	3.451
Out-of-band Frequency [MHz]:	2486.66
Max. out-of-band Level [dBm/100 kHz]:	-39.132
Attenuation [dB]:	-42.58



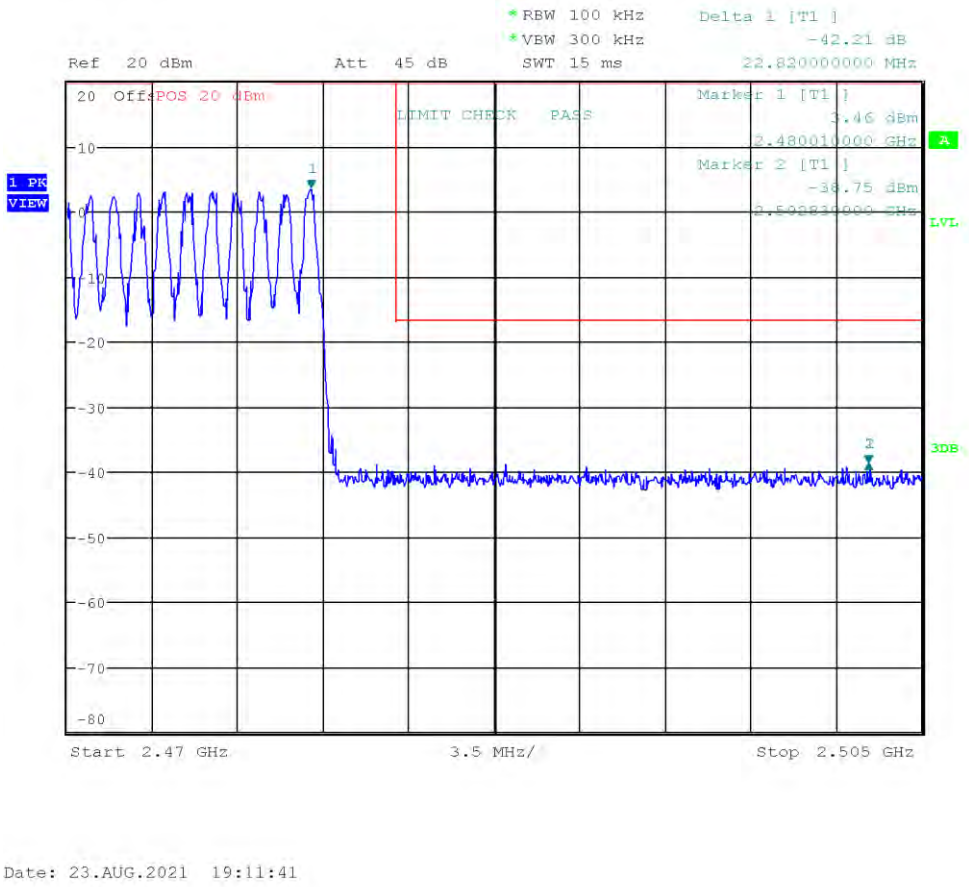
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Lower
In-band Frequency [MHz]:	2411.936
Max. in-band Level [dBm/100 kHz]:	1.008
Out-of-band Frequency [MHz]:	2388.0
Max. out-of-band Level [dBm/100 kHz]:	-39.287
Attenuation [dB]:	-40.3



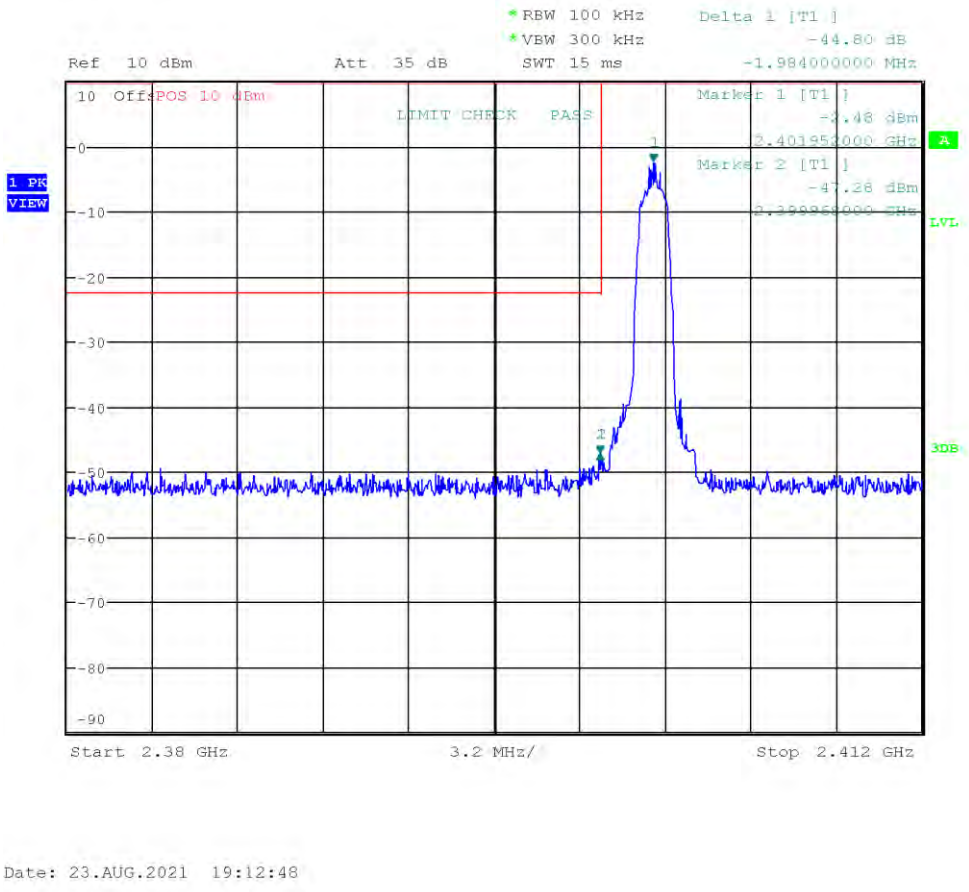
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Upper
In-band Frequency [MHz]:	2480.01
Max. in-band Level [dBm/100 kHz]:	3.464
Out-of-band Frequency [MHz]:	2502.83
Max. out-of-band Level [dBm/100 kHz]:	-38.75
Attenuation [dB]:	-42.21



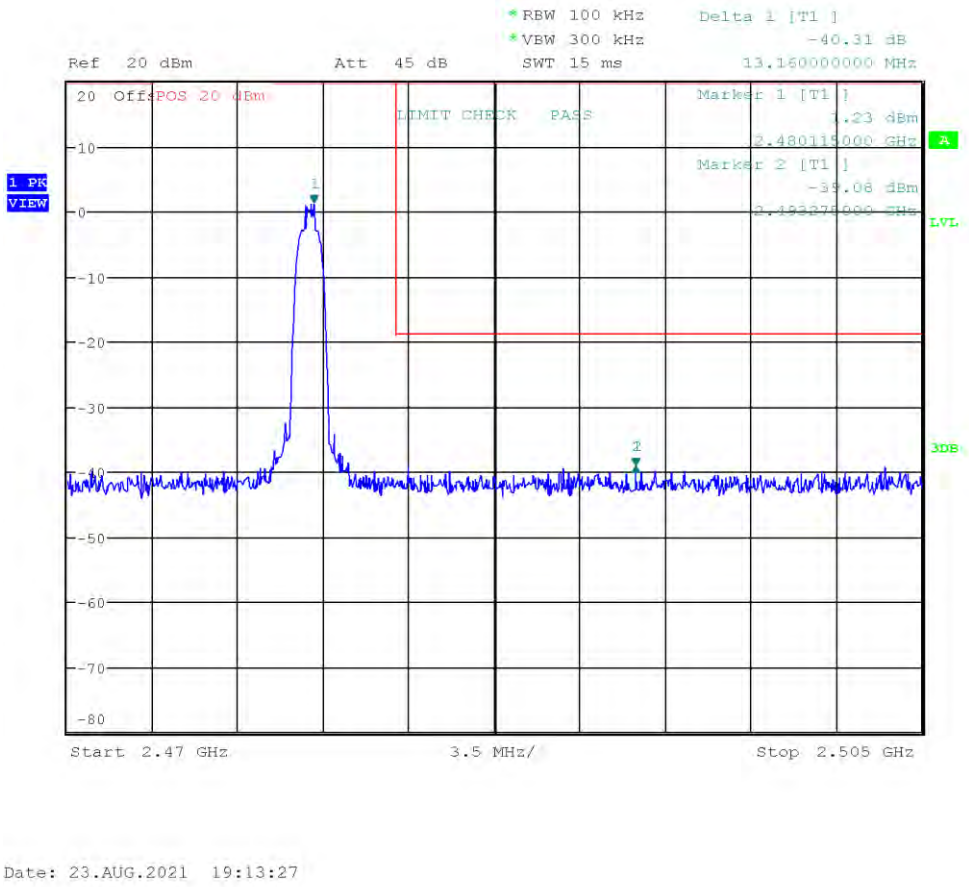
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	2-DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Lower
In-band Frequency [MHz]:	2401.952
Max. in-band Level [dBm/100 kHz]:	-2.478
Out-of-band Frequency [MHz]:	2399.968
Max. out-of-band Level [dBm/100 kHz]:	-47.282
Attenuation [dB]:	-44.8



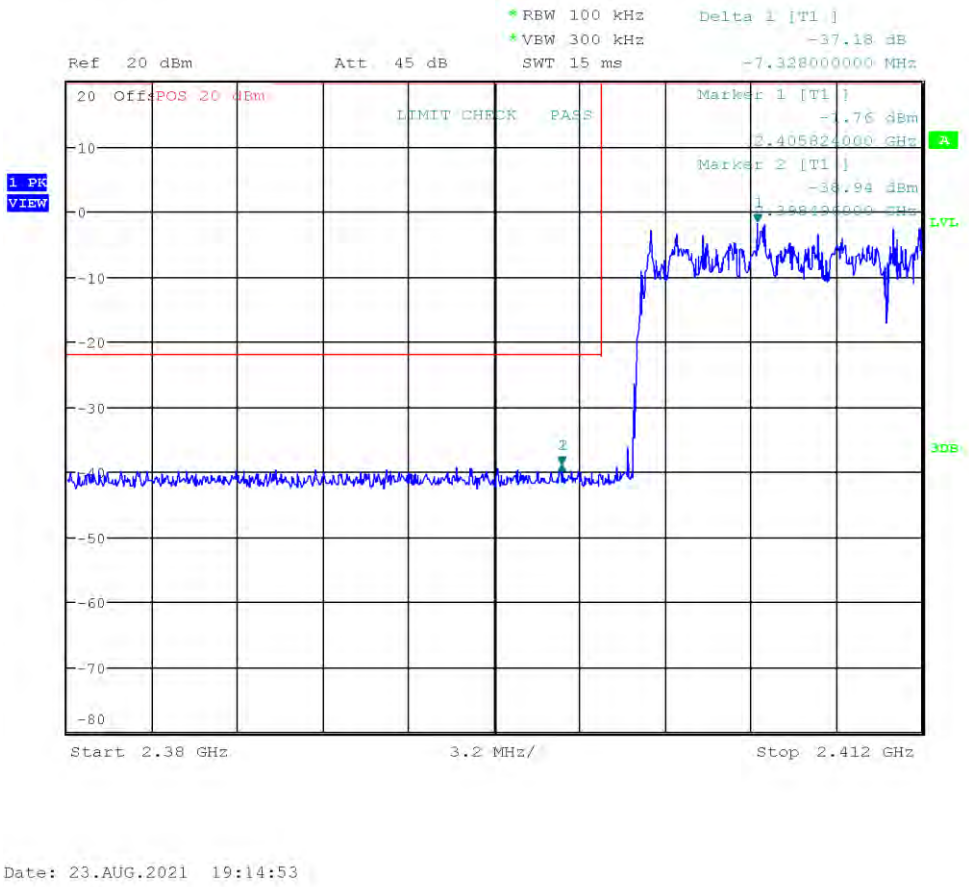
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	2-DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Upper
In-band Frequency [MHz]:	2480.115
Max. in-band Level [dBm/100 kHz]:	1.226
Out-of-band Frequency [MHz]:	2493.275
Max. out-of-band Level [dBm/100 kHz]:	-39.08
Attenuation [dB]:	-40.31



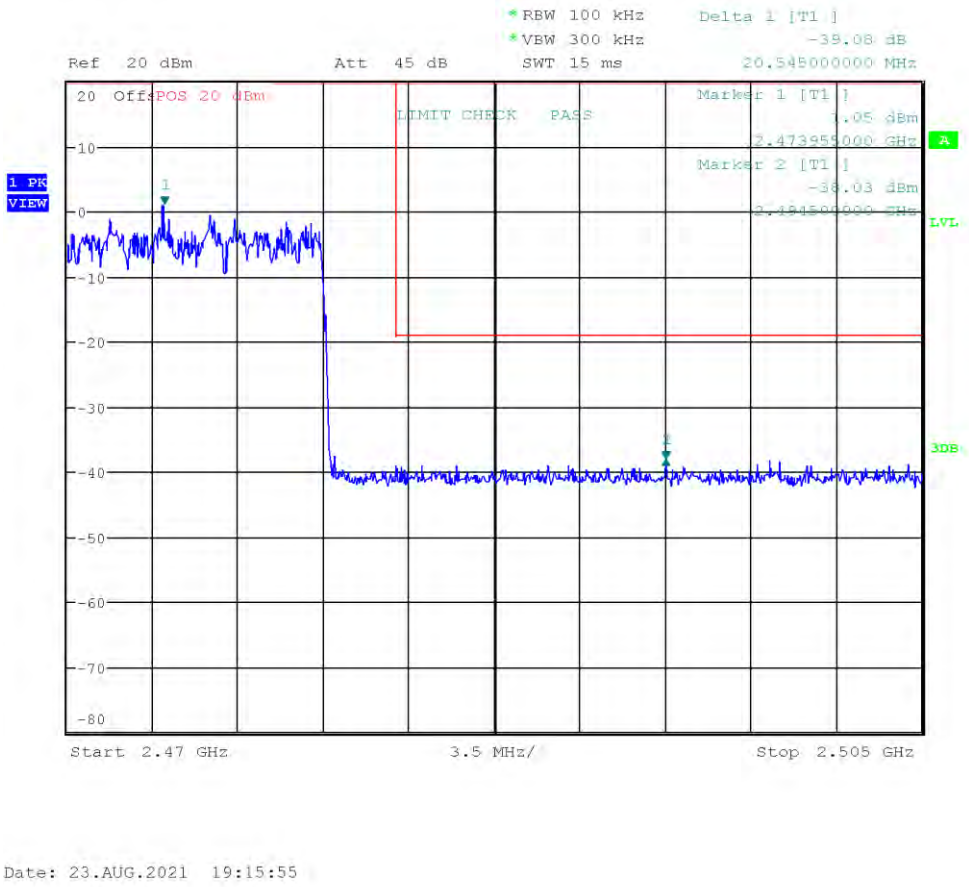
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	2-DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Lower
In-band Frequency [MHz]:	2405.824
Max. in-band Level [dBm/100 kHz]:	-1.762
Out-of-band Frequency [MHz]:	2398.496
Max. out-of-band Level [dBm/100 kHz]:	-38.937
Attenuation [dB]:	-37.17



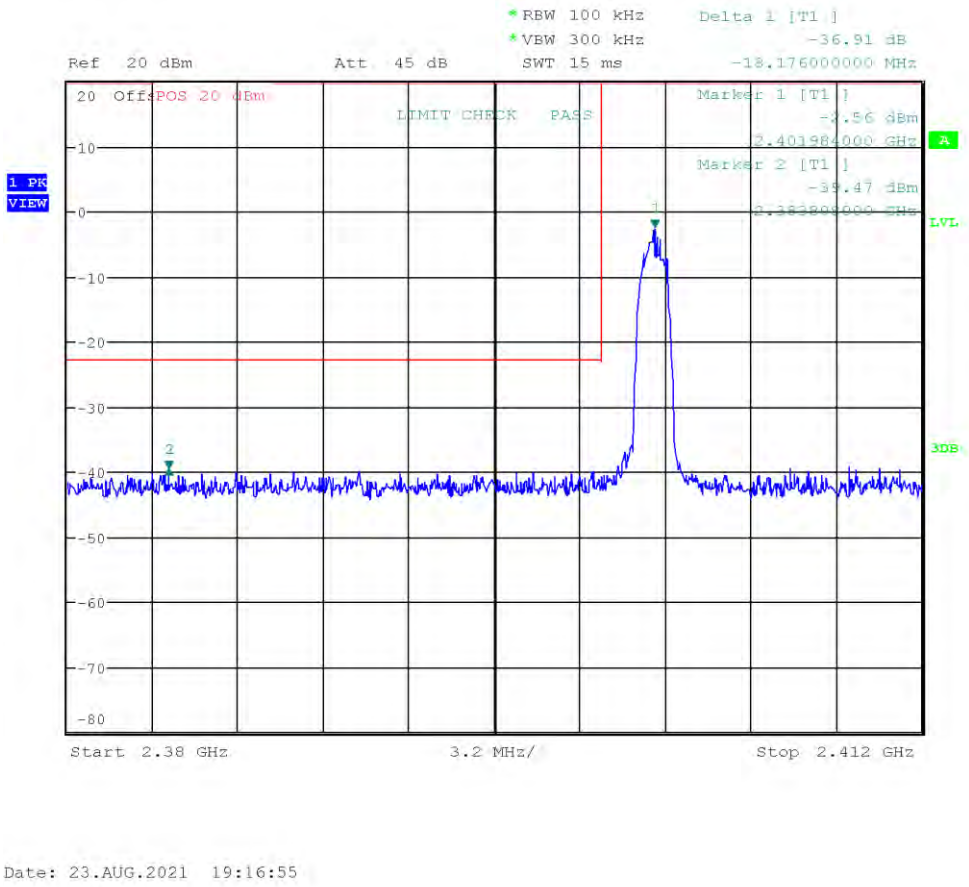
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	2-DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Upper
In-band Frequency [MHz]:	2473.955
Max. in-band Level [dBm/100 kHz]:	1.052
Out-of-band Frequency [MHz]:	2494.5
Max. out-of-band Level [dBm/100 kHz]:	-38.027
Attenuation [dB]:	-39.08



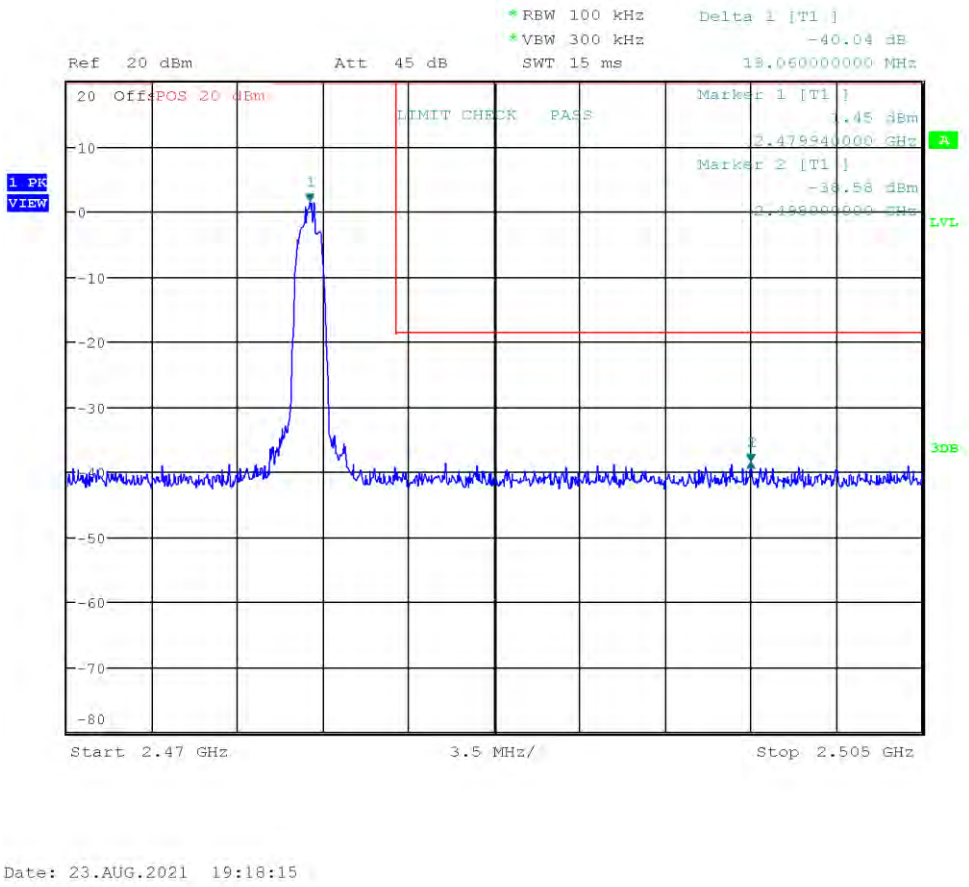
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	3-DH5, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Lower
In-band Frequency [MHz]:	2401.984
Max. in-band Level [dBm/100 kHz]:	-2.563
Out-of-band Frequency [MHz]:	2383.808
Max. out-of-band Level [dBm/100 kHz]:	-39.468
Attenuation [dB]:	-36.91



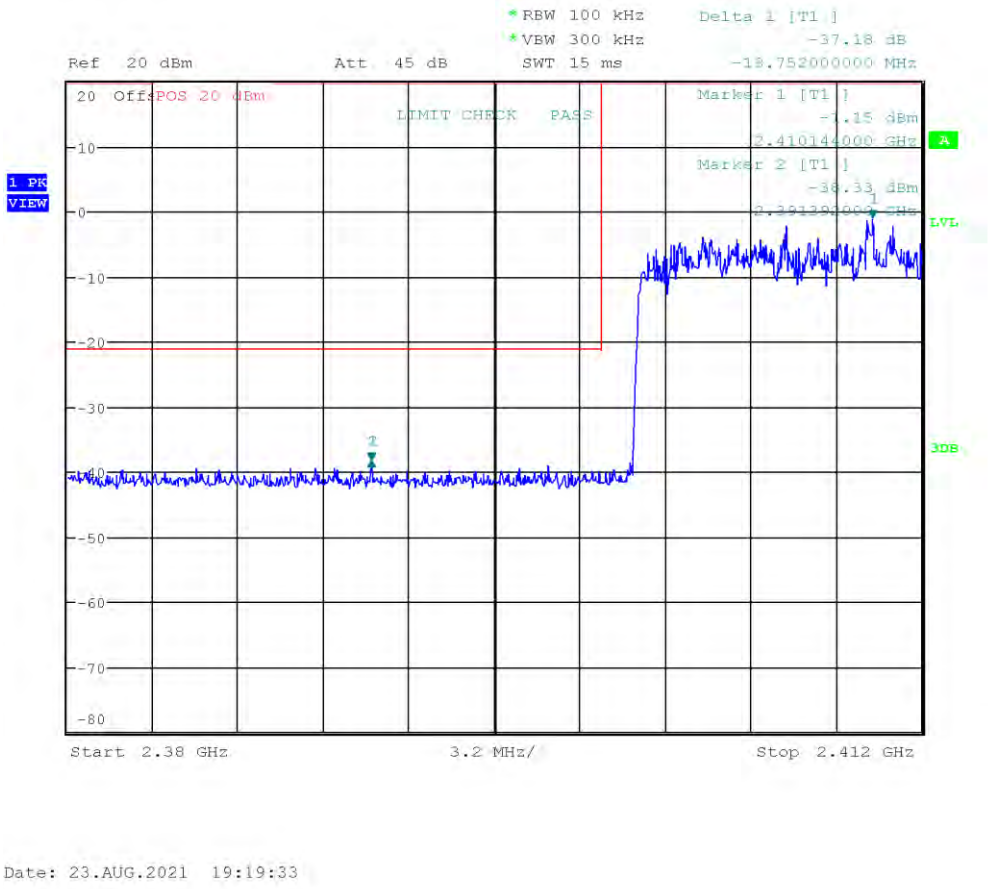
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	3-DH5, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Upper
In-band Frequency [MHz]:	2479.94
Max. in-band Level [dBm/100 kHz]:	1.453
Out-of-band Frequency [MHz]:	2498.0
Max. out-of-band Level [dBm/100 kHz]:	-38.583
Attenuation [dB]:	-40.04



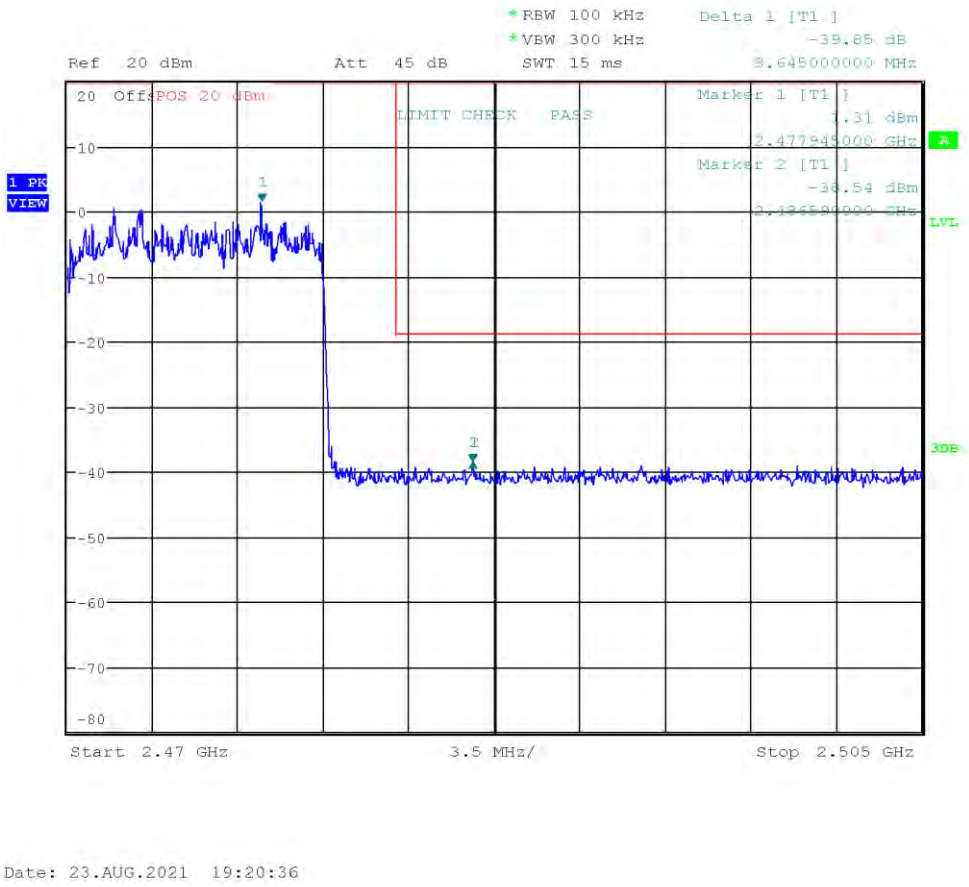
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	3-DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Lower
In-band Frequency [MHz]:	2410.144
Max. in-band Level [dBm/100 kHz]:	-1.145
Out-of-band Frequency [MHz]:	2391.392
Max. out-of-band Level [dBm/100 kHz]:	-38.33
Attenuation [dB]:	-37.18



Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operational Mode:	3-DH5, Hopping
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-23
Band-edge	Upper
In-band Frequency [MHz]:	2477.945
Max. in-band Level [dBm/100 kHz]:	1.312
Out-of-band Frequency [MHz]:	2486.59
Max. out-of-band Level [dBm/100 kHz]:	-38.539
Attenuation [dB]:	-39.85



3.8 Test Conditions and Results - Conducted spurious emissions

3.8.1 Information

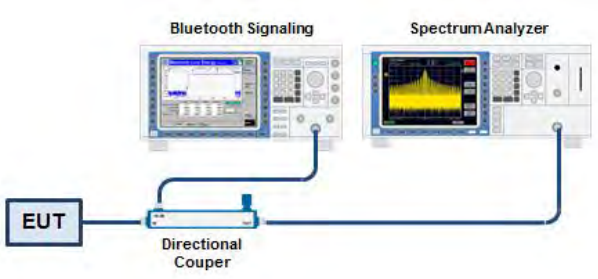
Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 2 (section 5.5)
Measurement Uncertainty	± 4.25 dB
Measurement Method	ANSI C63.10 6.10
Operator	Florian Voigt
Date	2021-08-24

3.8.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.8.3 Setup

Test Setup



3.8.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01407	2021-08	2022-08
Cable	Huber+Suhner	Sucoflex	EF00779 CAABQ	2020-12	2021-12
Cable (only signaling)	Gigalane	1730	EF00779 CAABB	2020-12	2021-12
Dual directional coupler	Krytar	SMA, 1850	EF01539	2021-07	2022-07

3.8.5 Procedure

Test Procedure

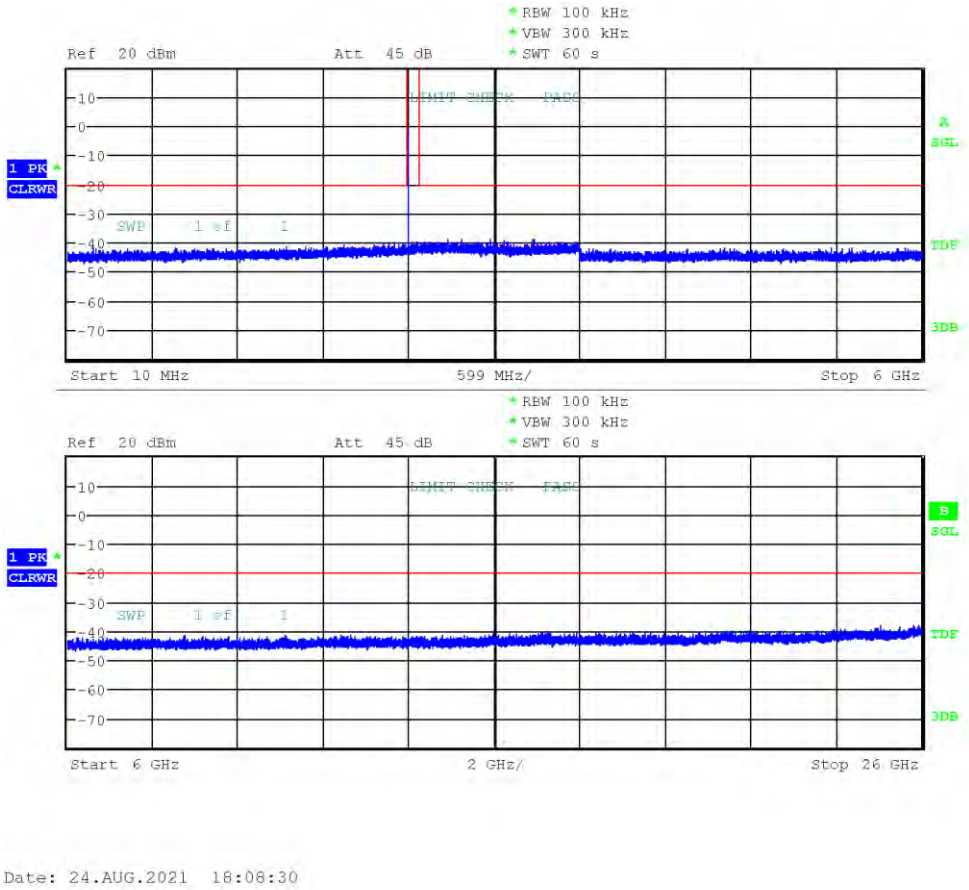
1. EUT set to test mode (Communication tester is used if needed)
2. Span set around lower band edge and detector is set to peak and max hold
3. Resolution bandwidth is set to 100 kHz
4. Markers are set to peak emission levels outside frequency band

3.8.6 Results

Test Results		
Mode	Channel [MHz]	Verdict
DH5 Single	2402	PASS
DH5 Single	2441	PASS
DH5 Single	2480	PASS
2-DH5 Single	2402	PASS
2-DH5 Single	2441	PASS
2-DH5 Single	2480	PASS
3-DH5 Single	2402	PASS
3-DH5 Single	2441	PASS
3-DH5 Single	2480	PASS

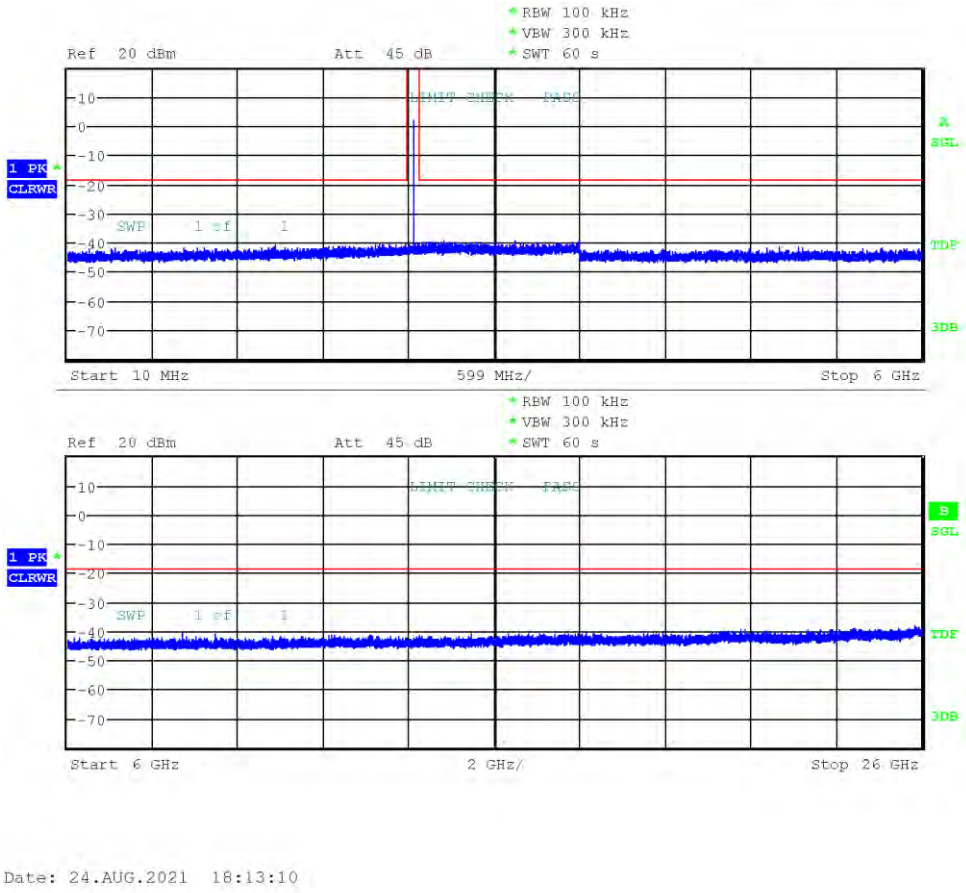
Conducted Spurious Emissions

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DH5 Single, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-24
Max. in-band Frequency [MHz]:	2402.1
Max. in-band Level [dBm/100 kHz]:	-0.2
Out-of-band Limit [dBm/100 kHz]:	-20.2



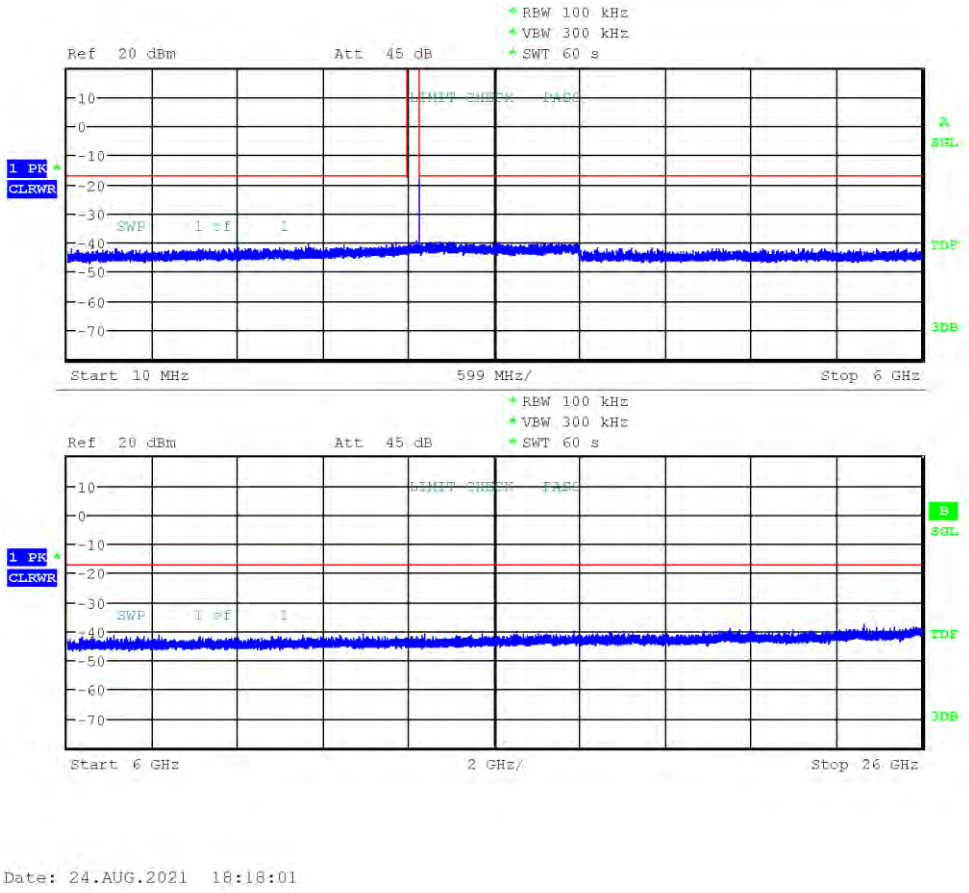
Conducted Spurious Emissions

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DH5 Single, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-24
Max. in-band Frequency [MHz]:	2441.0
Max. in-band Level [dBm/100 kHz]:	1.8
Out-of-band Limit [dBm/100 kHz]:	-18.2



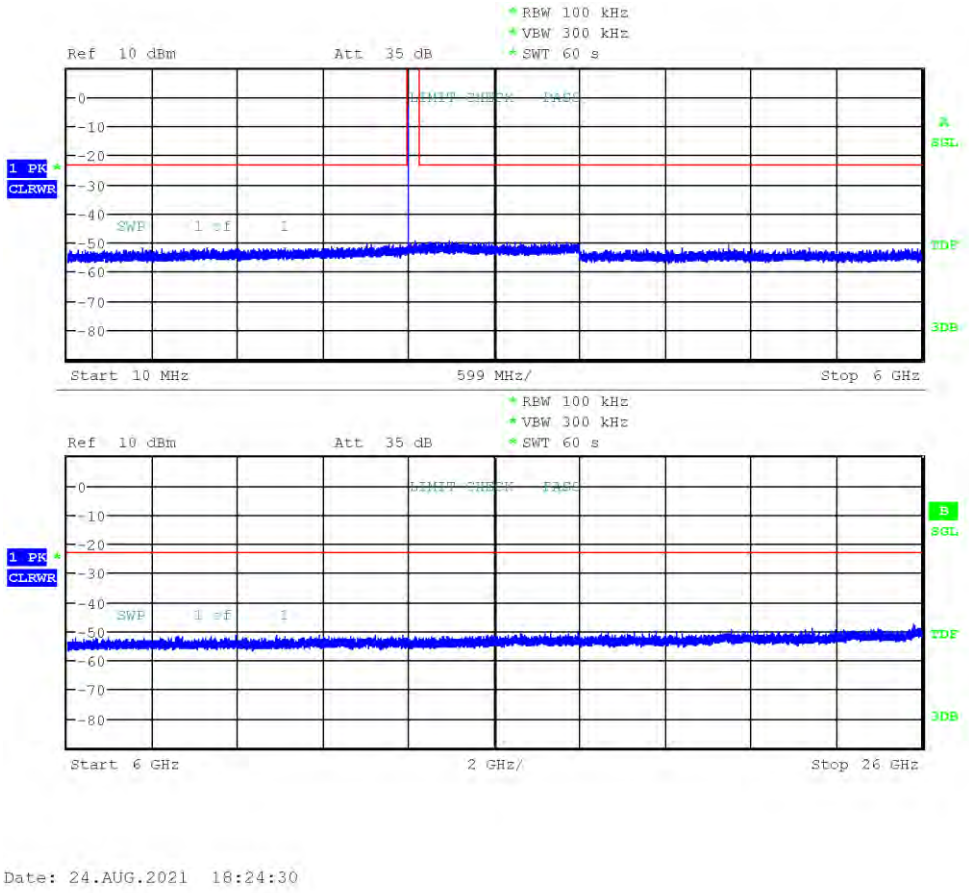
Conducted Spurious Emissions

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DH5 Single, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-24
Max. in-band Frequency [MHz]:	2480.0
Max. in-band Level [dBm/100 kHz]:	3.1
Out-of-band Limit [dBm/100 kHz]:	-16.9



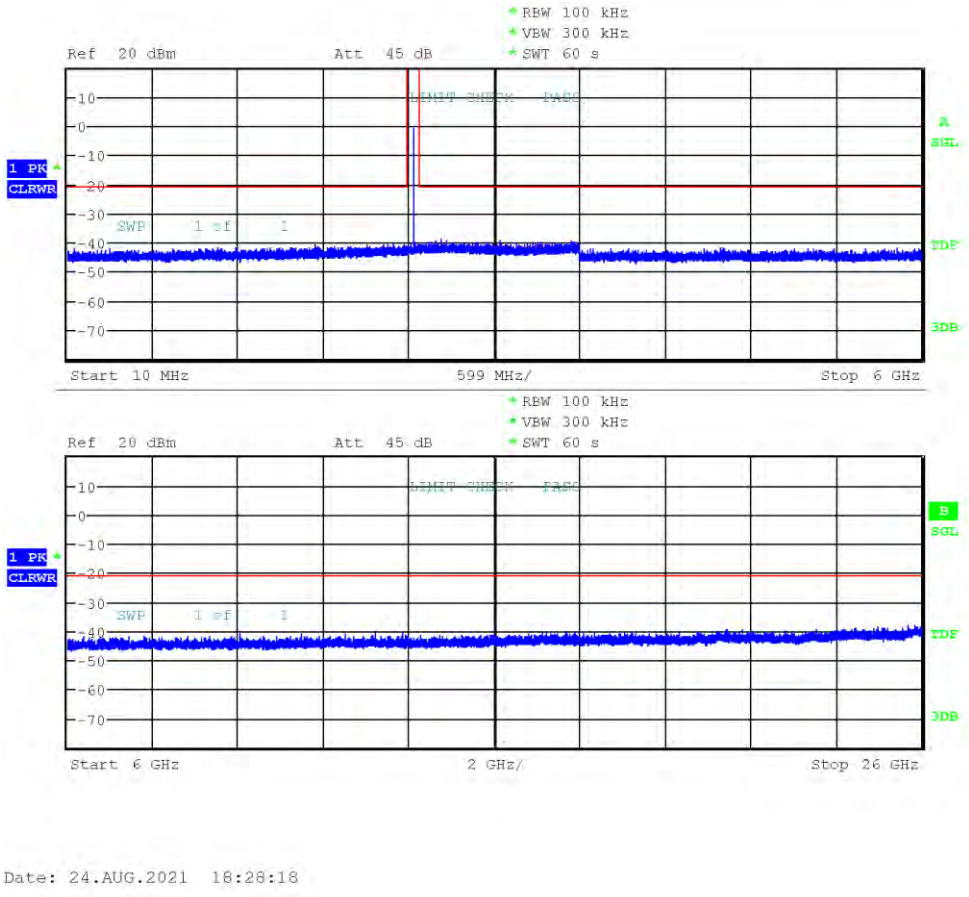
Conducted Spurious Emissions

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	2-DH5 Single, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-24
Max. in-band Frequency [MHz]:	2402.0
Max. in-band Level [dBm/100 kHz]:	-3.0
Out-of-band Limit [dBm/100 kHz]:	-23.0



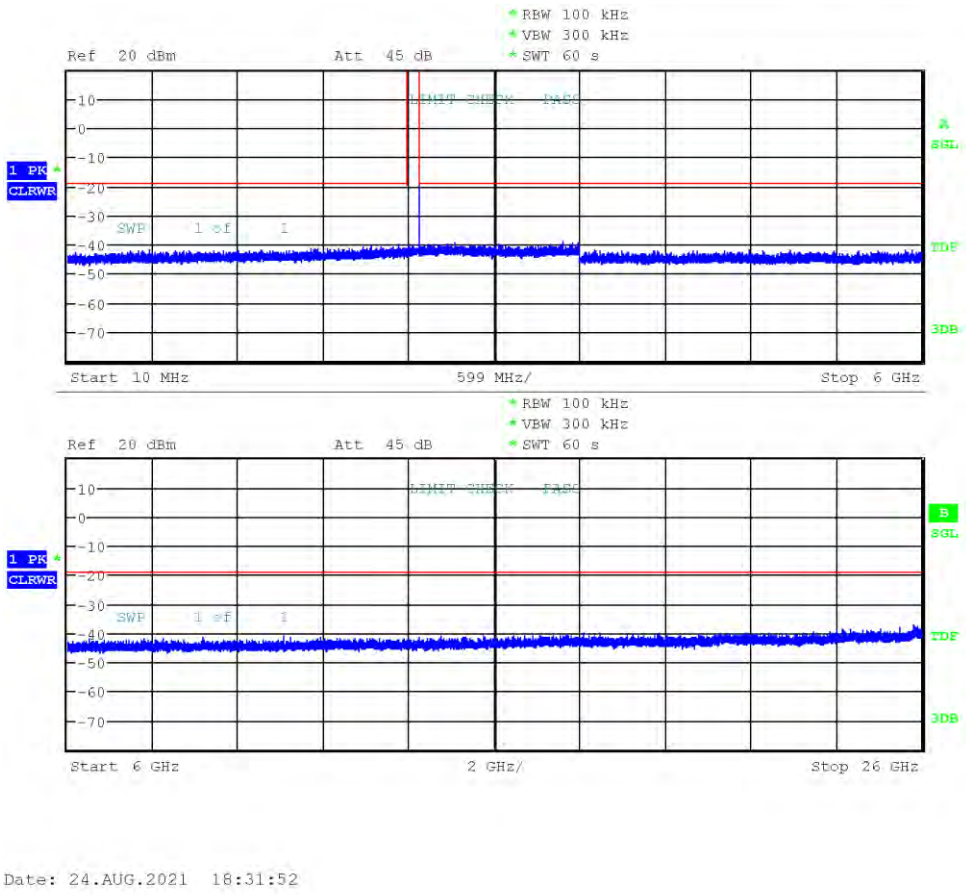
Conducted Spurious Emissions

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	2-DH5 Single, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-24
Max. in-band Frequency [MHz]:	2441.0
Max. in-band Level [dBm/100 kHz]:	-0.4
Out-of-band Limit [dBm/100 kHz]:	-20.4



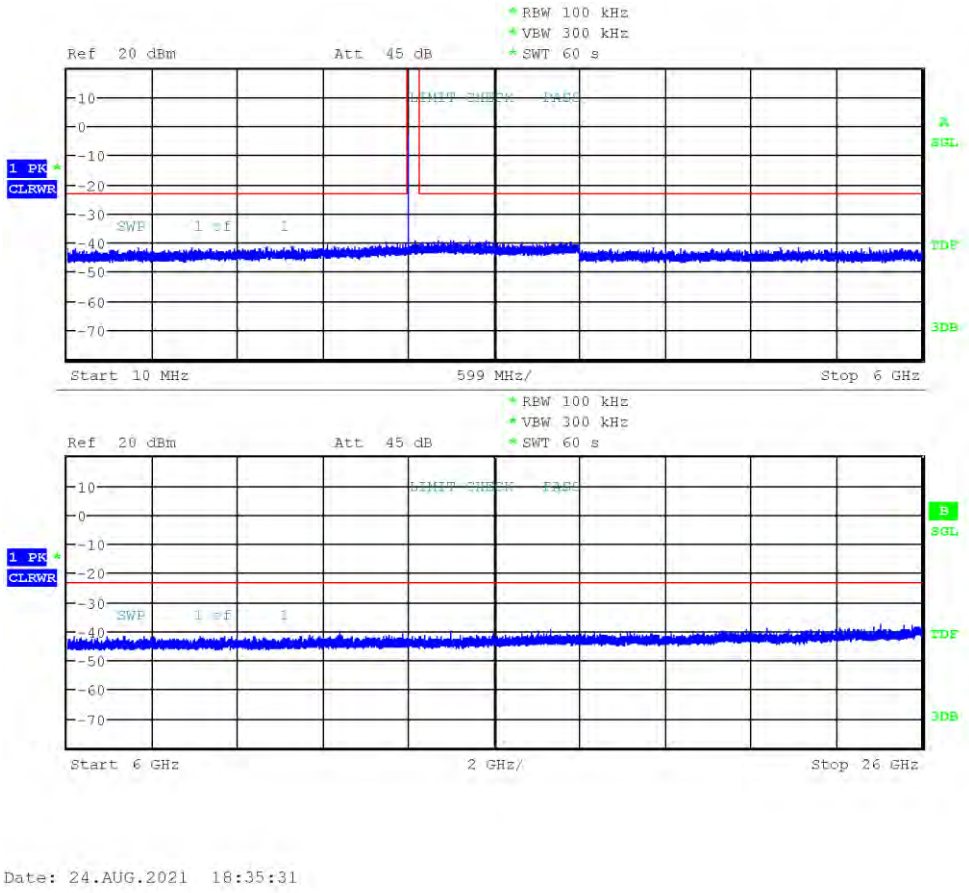
Conducted Spurious Emissions

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	2-DH5 Single, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-24
Max. in-band Frequency [MHz]:	2479.8
Max. in-band Level [dBm/100 kHz]:	0.9
Out-of-band Limit [dBm/100 kHz]:	-19.1



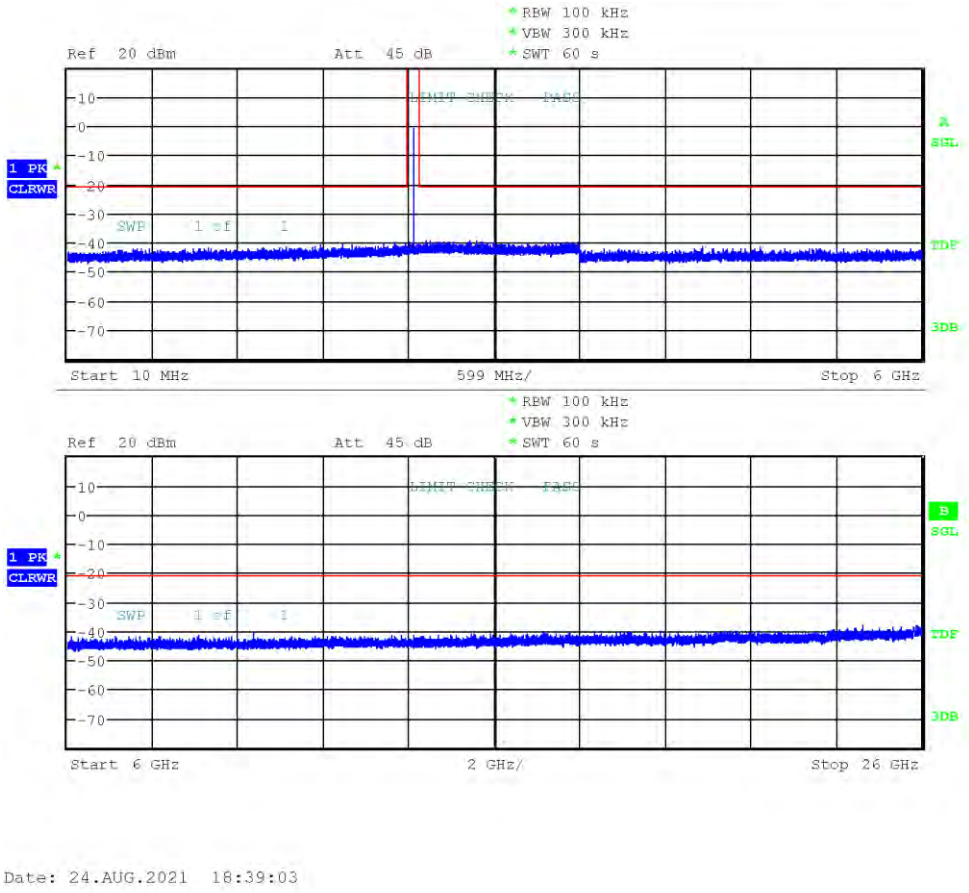
Conducted Spurious Emissions

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	3-DH5 Single, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-24
Max. in-band Frequency [MHz]:	2402.0
Max. in-band Level [dBm/100 kHz]:	-3.2
Out-of-band Limit [dBm/100 kHz]:	-23.2



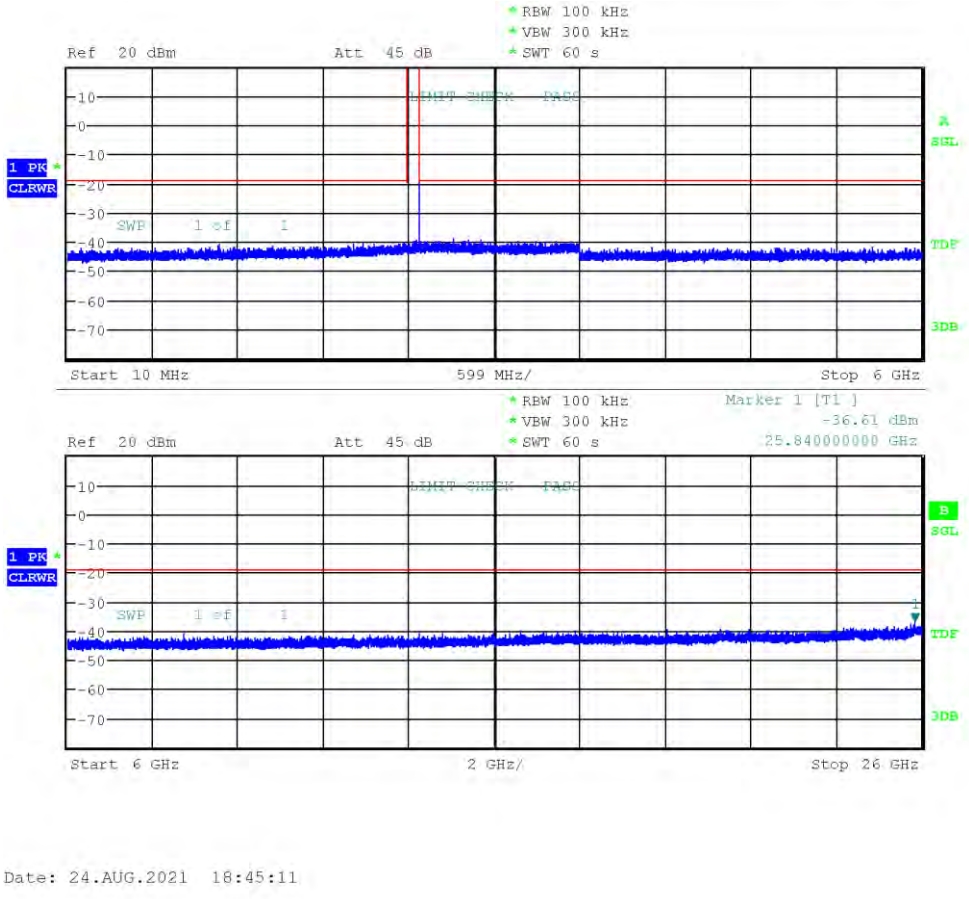
Conducted Spurious Emissions

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	3-DH5 Single, Channel: 39, 2441 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-24
Max. in-band Frequency [MHz]:	2441.0
Max. in-band Level [dBm/100 kHz]:	-0.4
Out-of-band Limit [dBm/100 kHz]:	-20.4



Conducted Spurious Emissions

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34394
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	3-DH5 Single, Channel: 78, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-08-24
Max. in-band Frequency [MHz]:	2480.0
Max. in-band Level [dBm/100 kHz]:	1.0
Out-of-band Limit [dBm/100 kHz]:	-19.0



3.9 Test Conditions and Results - Transmitter radiated emissions

3.9.1 Information

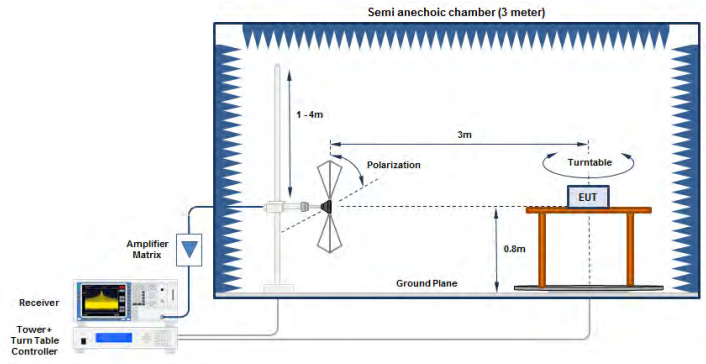
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISED RSS-Gen, Issue 5 (section 6.13)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6
Operator	Florian Voigt
Date	2021-08-19 + 2021-08-20
Comment: Test modes “DH5 single”, “2-DH5 single”, “3-DH5 single” were evaluated in pre-checks. No significant emissions where detected during pre-checks. Mode “DH5 single” was finally measured because it generates the maximum carrier peak power. Measurements between 1.0 GHz and 6.5 GHz are conducted as pre measurements in anechoic chamber AC2 without any significant emissions.	

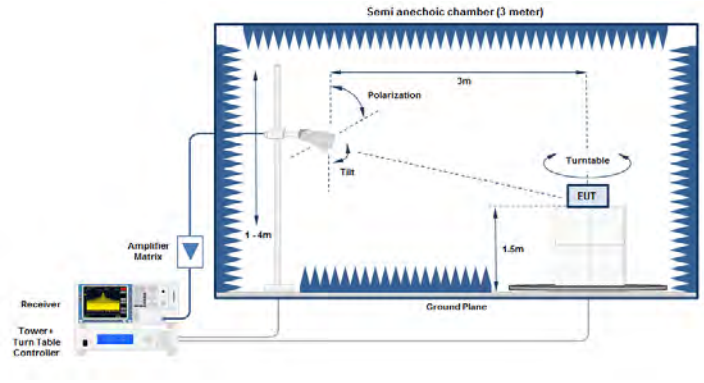
3.9.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [µV/m]	Measurement distance [m]
0.009 - 0.09	Average	2400/F[kHz]	300
0.09 - 0.110	Quasi-Peak	2400/F[kHz]	300
0.110 - 0.490	Average	2400/F[kHz]	300
0.490 - 1.705	Quasi-Peak	24000/F[kHz]	30
1.705 - 30.0	Quasi-Peak	30	30
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.9.3 Setup

Test Setup 30 MHz - 1000 MHz



Test Setup > 1 GHz


3.9.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00187	2019-05	2022-05

Test Equipment 1 GHz - 6.5 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC 2	EF01616	2021-05	2022-05
Spectrum Analyzer	R&S	FSU43	EF01631	2021-07	2022-07
Horn Antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2022-03

Test Equipment > 6.5 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.9.5 Procedure

Test Procedure 30 MHz - 1000 MHz
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5. All significant emissions are measured again using the corresponding final detector

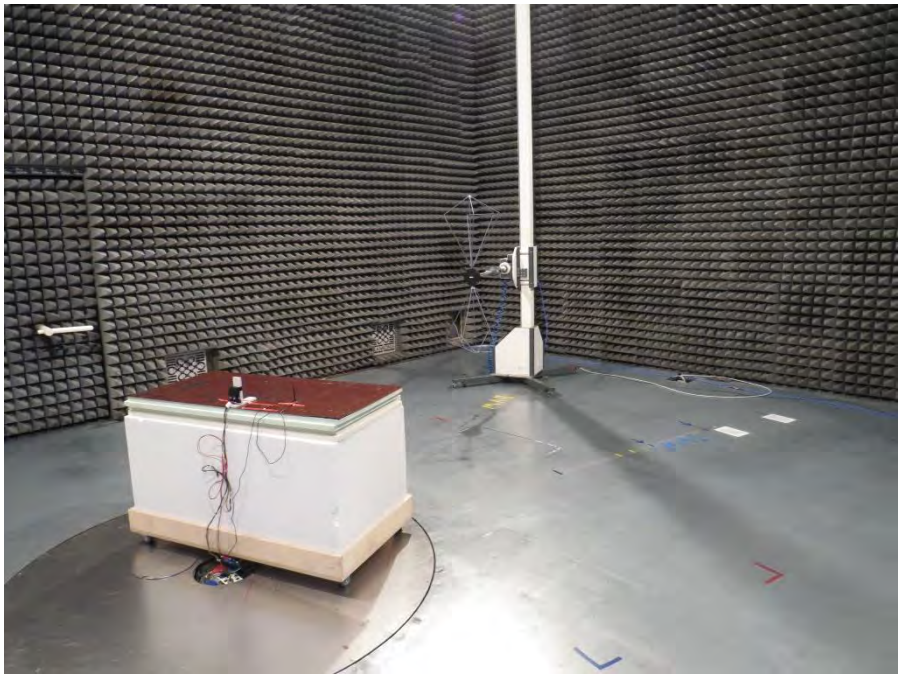
Test Procedure > 1 GHz
1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5. All significant emissions are measured again using the corresponding final detector

3.9.6 Results

Test Results - DH5 Single						
Channel [MHz]	Emission [MHz]	Level [dBµV/m]	Det.	Pol.	Limit [dBµV/m]	Margin [dB]
2402	2376.1	32.97	pk	hor	74.00	-41.03
2402	2376.1	22.53	avg	hor	54.00	-31.47
2402	2498	33.90	pk	ver	74.00	-40.10
2402	2498	26.82	avg	ver	54.00	-27.18
2402	4803.9	36.84	pk	hor	74.00	-37.16
2402	4803.9	29.88	avg	hor	54.00	-24.12
2402	4803.9	38.22	pk	ver	74.00	-35.78
2402	4803.9	32.01	avg	ver	54.00	-21.99
2441	4881.9	38.04	pk	hor	74.00	-35.96
2441	4881.9	32.69	avg	hor	54.00	-21.31
2441	4881.9	39.31	pk	ver	74.00	-34.69
2441	4881.9	33.01	avg	ver	54.00	-20.99
2480	2483.5	38.34	pk	hor	74.00	-35.66
2480	2483.5	29.51	avg	hor	54.00	-24.49
2480	2483.5	36.69	pk	ver	74.00	-37.31
2480	2483.5	28.95	avg	ver	54.00	-25.05
2480	4960	39.61	pk	hor	74.00	-34.39
2480	4960	34.11	avg	hor	54.00	-19.89
2480	4960	39.49	pk	ver	74.00	-34.51
2480	4960	34.31	avg	ver	54.00	-19.69

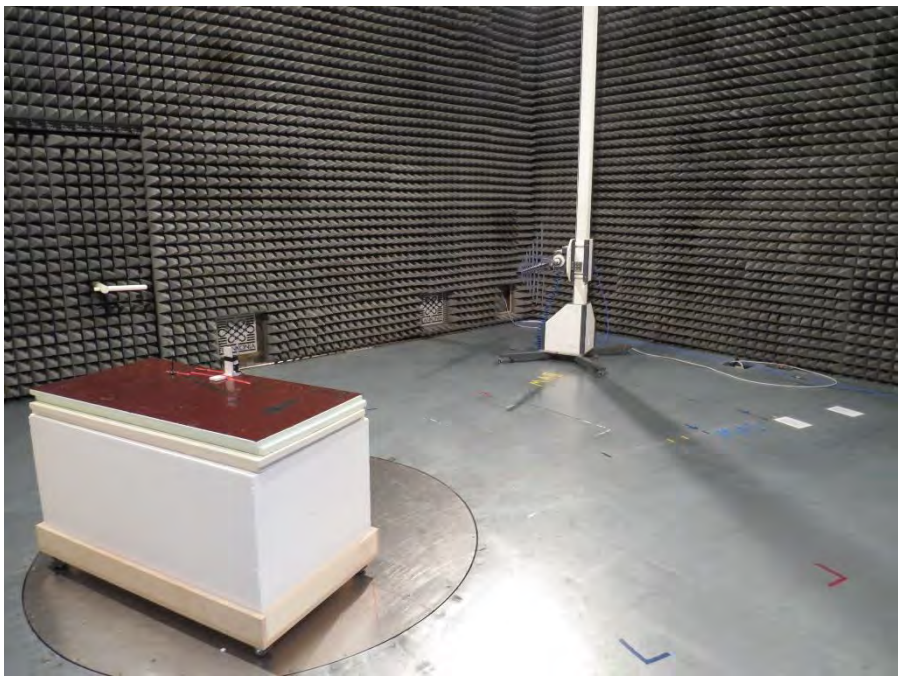
3.9.7 Setup photos

Setup 30 to 200 MHz A

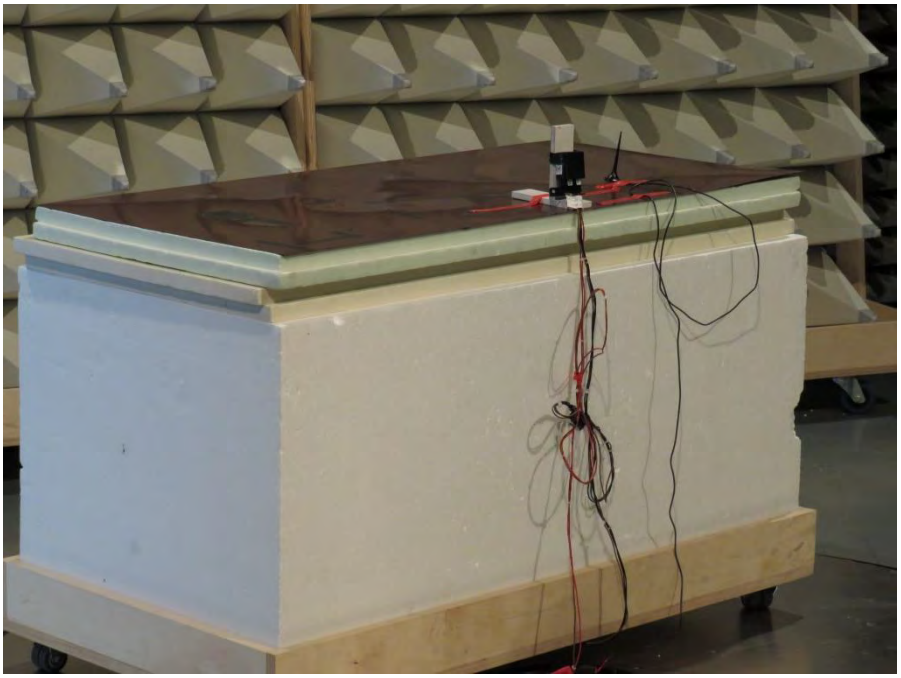


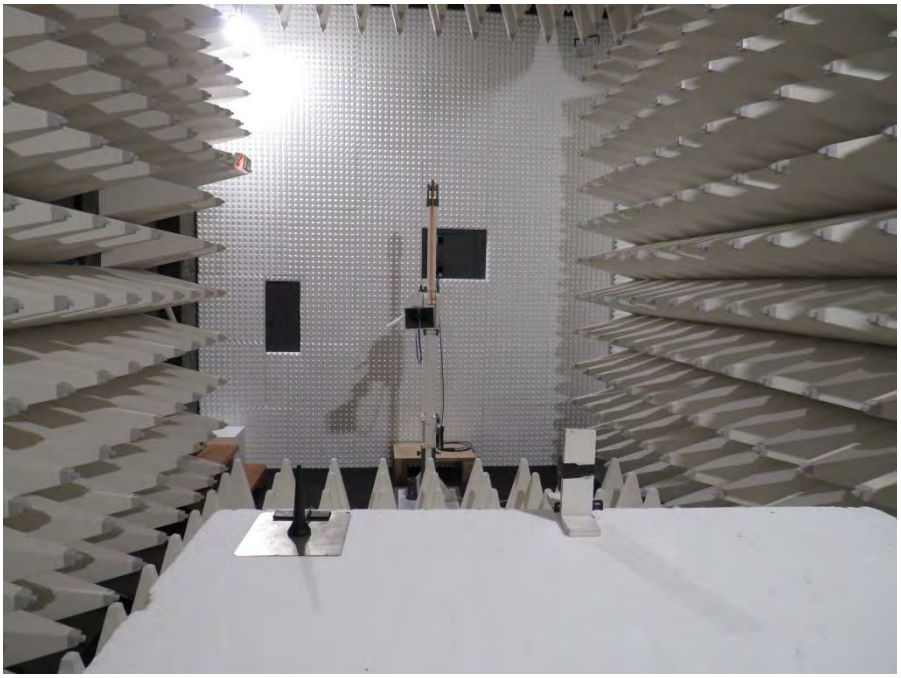
Setup 30 to 200 MHz B

Setup 200 to 1000 MHz A

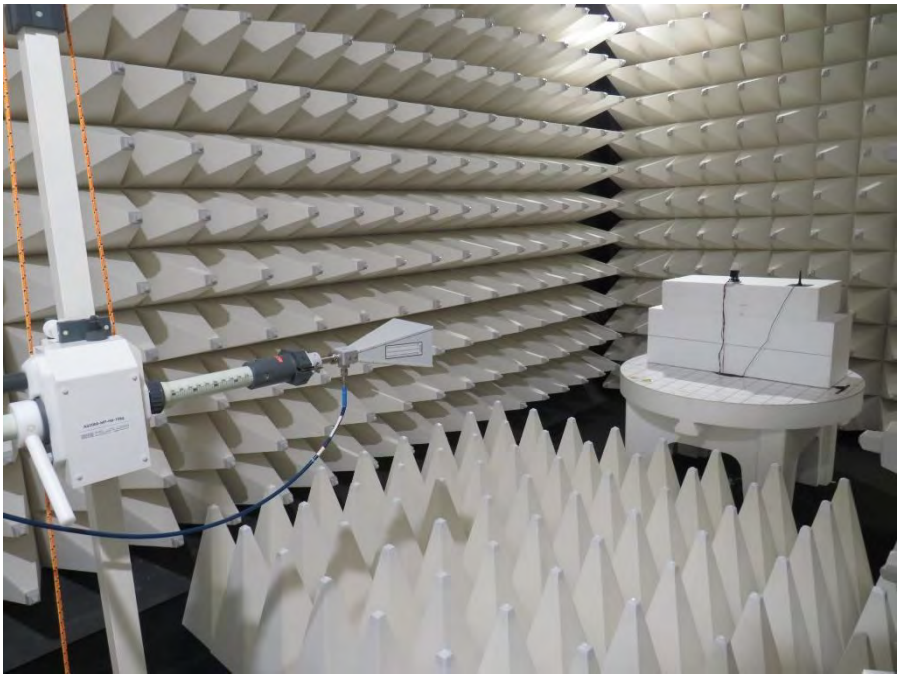


Setup 200 to 1000 MHz B

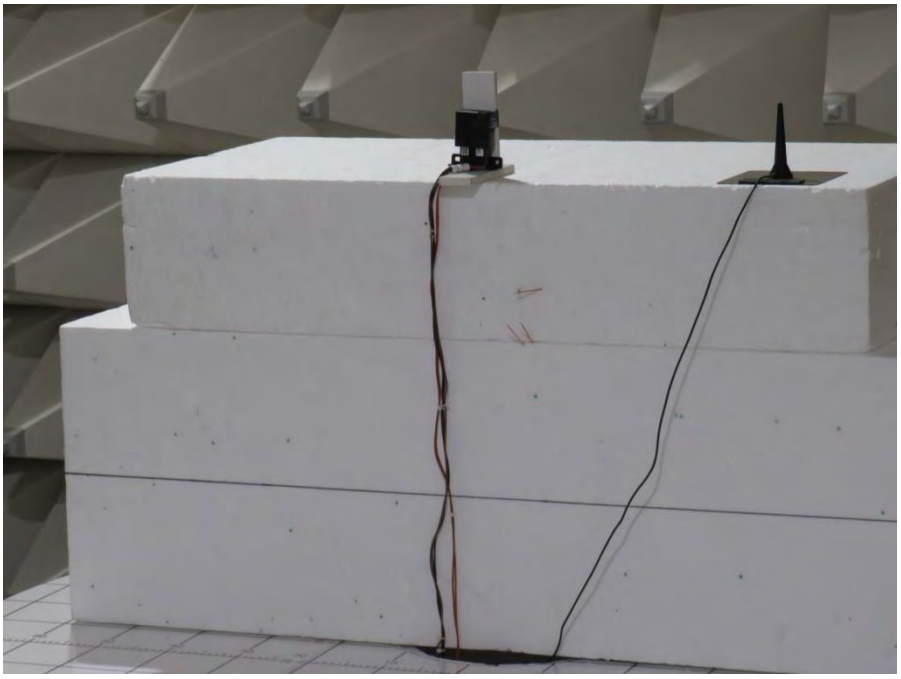
Setup table view A


Setup 1 to 8 GHz A


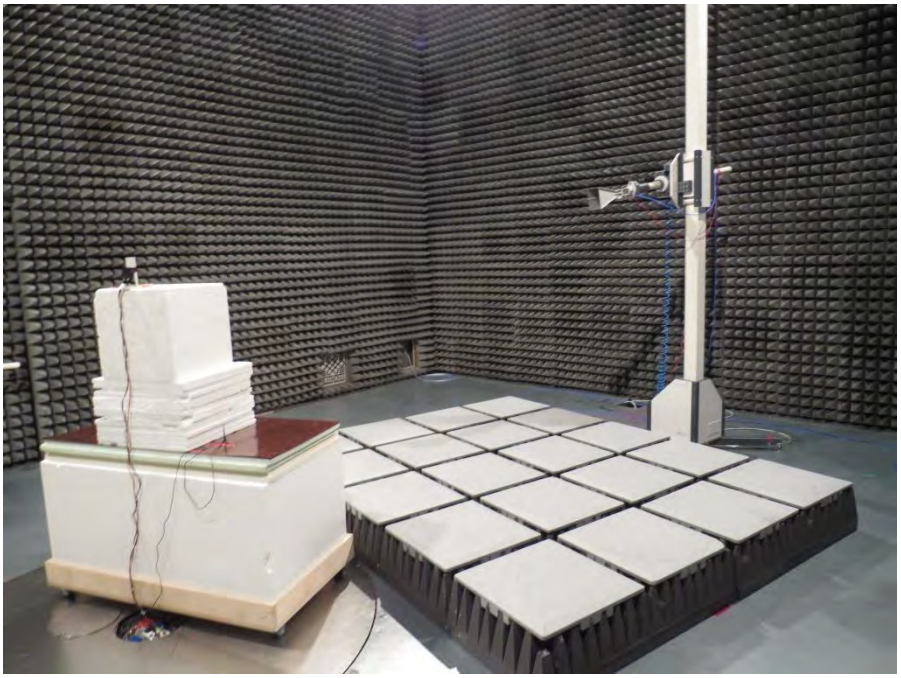
Setup 1 to 8 GHz B



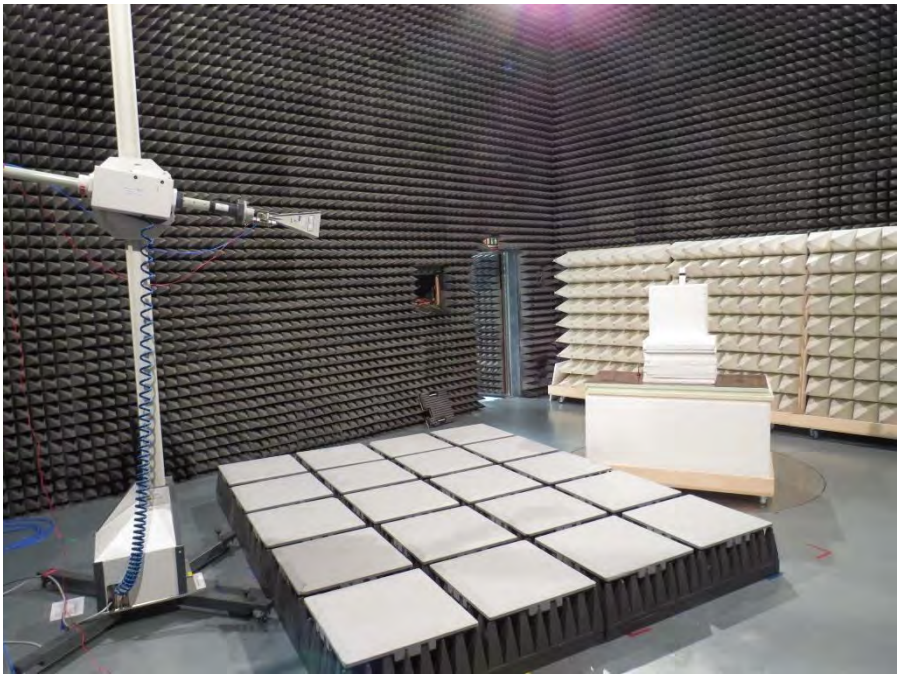
Setup table view B



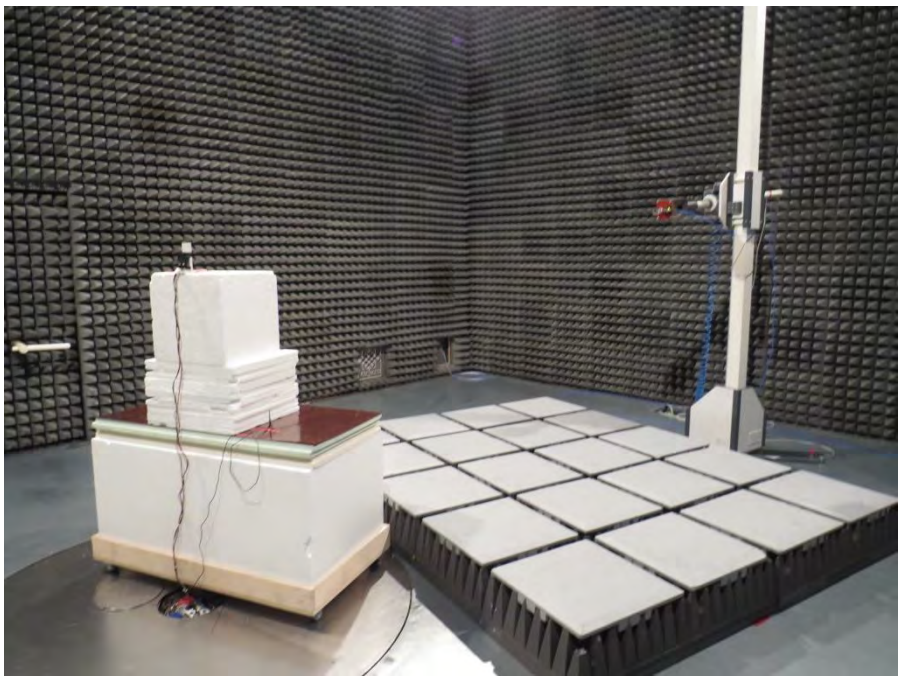
Setup 6.5 to 18 GHz A



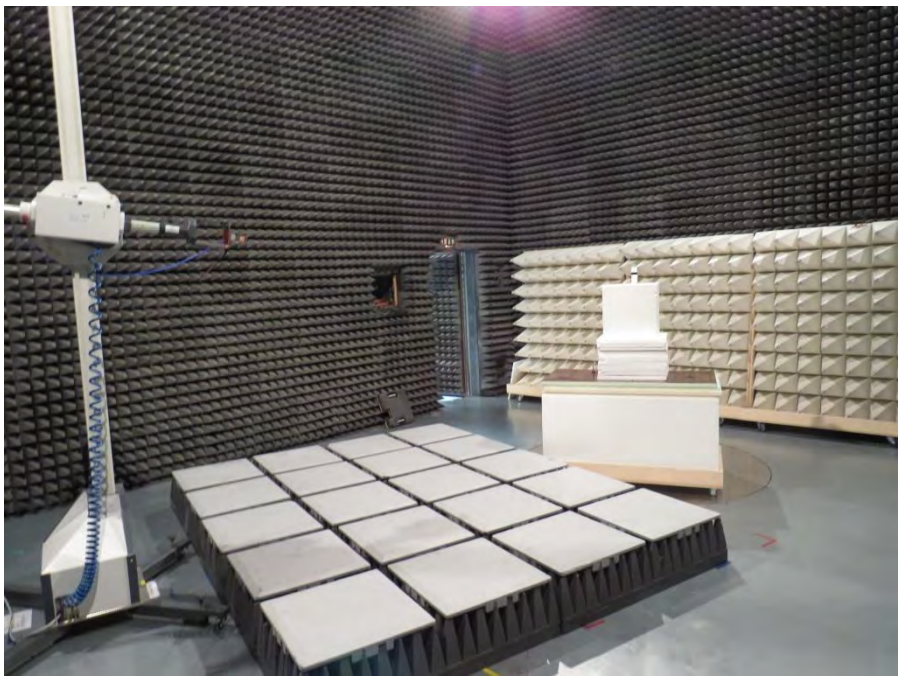
Setup 6.5 to 18 GHz B

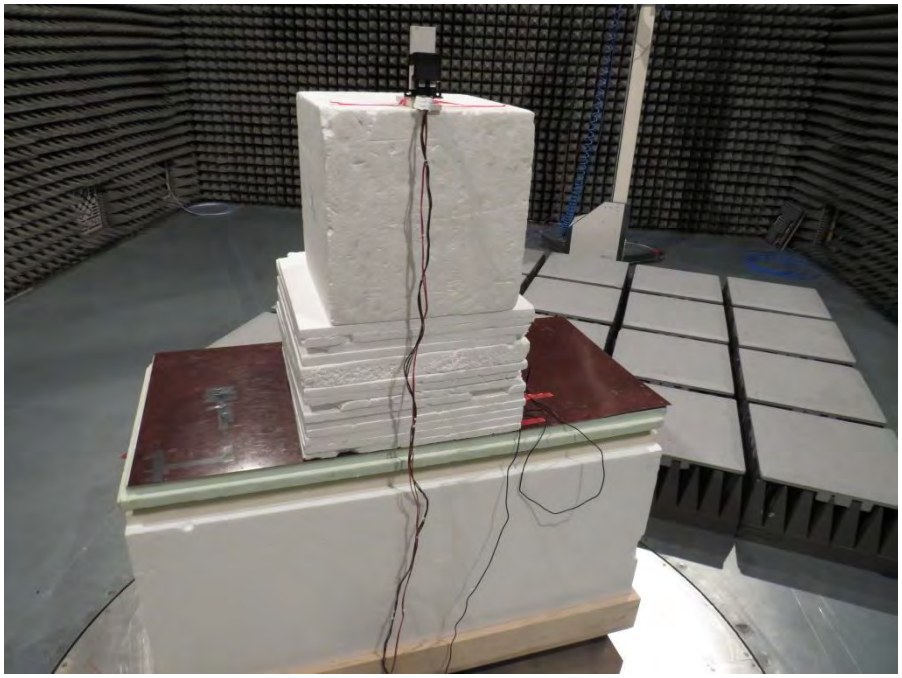


Setup 18 to 26.5 GHz A



Setup 18 to 26.5 GHz B



Setup table view C


3.10 Test Conditions and Results - Receiver radiated emissions

3.10.1 Information

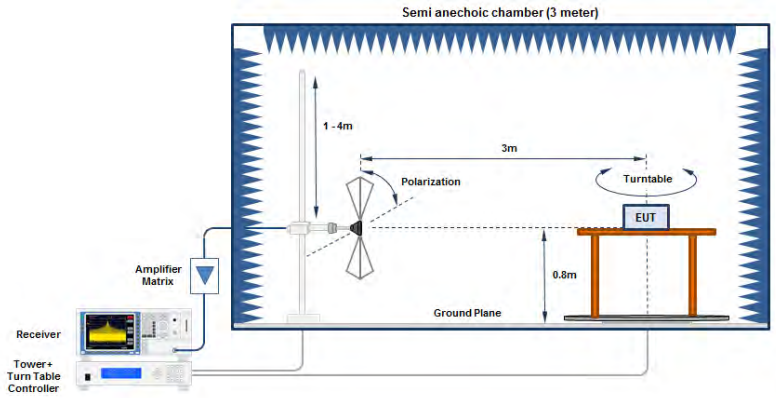
Test Information	
Reference	ISED RSS-247, Issue 2 (section 3.1)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.4-2014 8.1-8.3
Operator	Florian Voigt
Date	2021-08-20

3.10.2 Limits

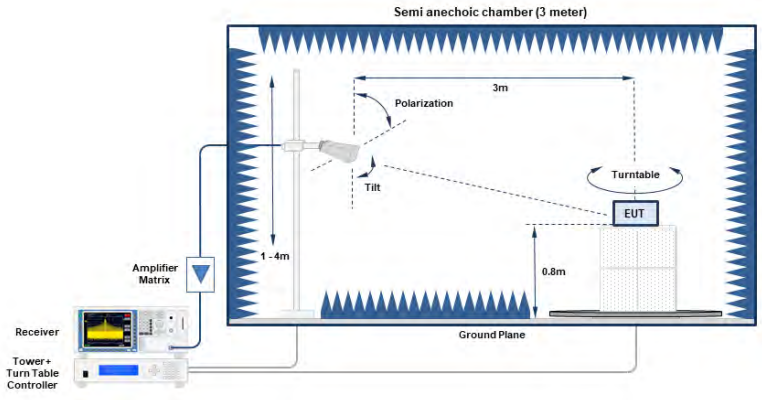
Limits			
Frequency range [MHz]	Detector	Field strength [µV/m]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.10.3 Setup

Test Setup 30 MHz - 1000 MHz



Test Setup > 1 GHz



3.10.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00187	2019-05	2022-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2019-10	2022-10
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03

3.10.5 Procedure

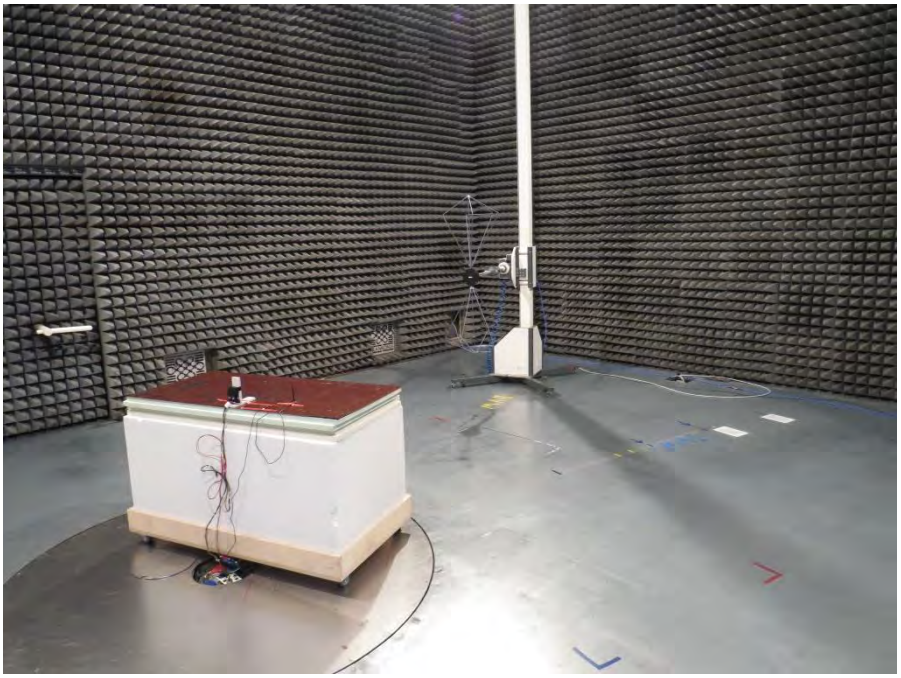
Test Procedure 30 - 1000 MHz
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5. All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz
1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5. All significant emissions are measured again using the corresponding final detector

3.10.6 Results

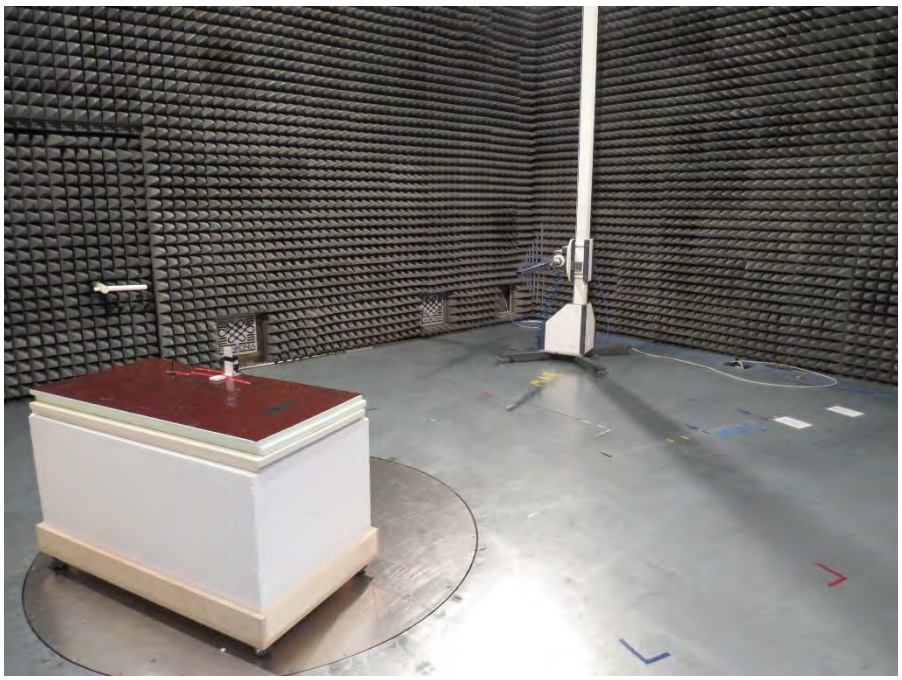
Test Results						
Channel [MHz]	Emission [MHz]	Level [dBµV/m]	Det.	Pol.	Limit [dBµV/m]	Margin [dB]
2441	1923	51.00	pk	hor	74.00	-23.00
2441	1923	43.67	avg	hor	53.98	-10.31

3.10.7 Setup photos

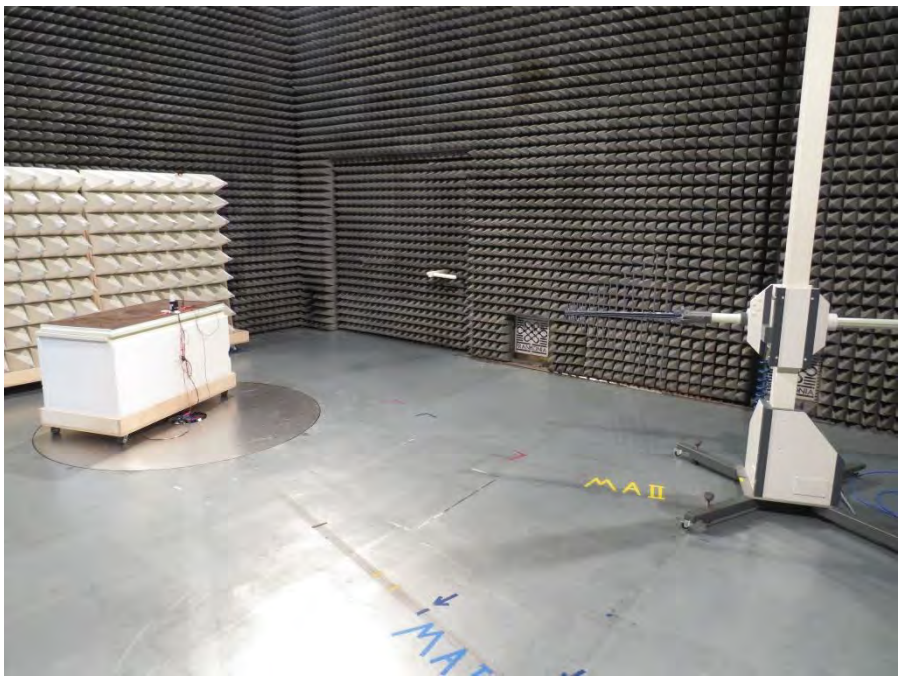
Setup 30 to 200 MHz A


Setup 30 to 200 MHz B

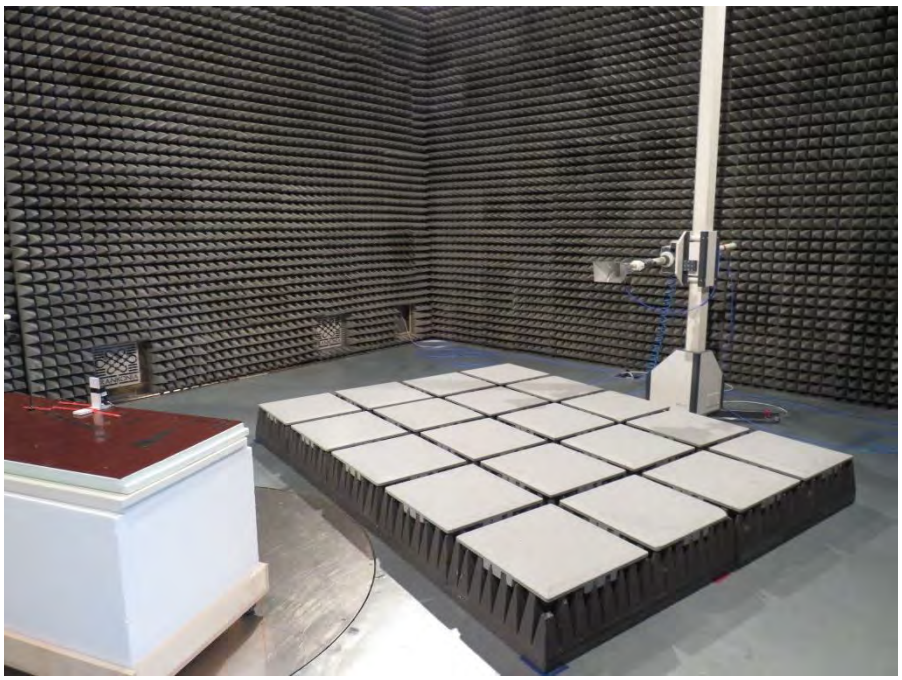

Setup 200 to 1000 MHz A



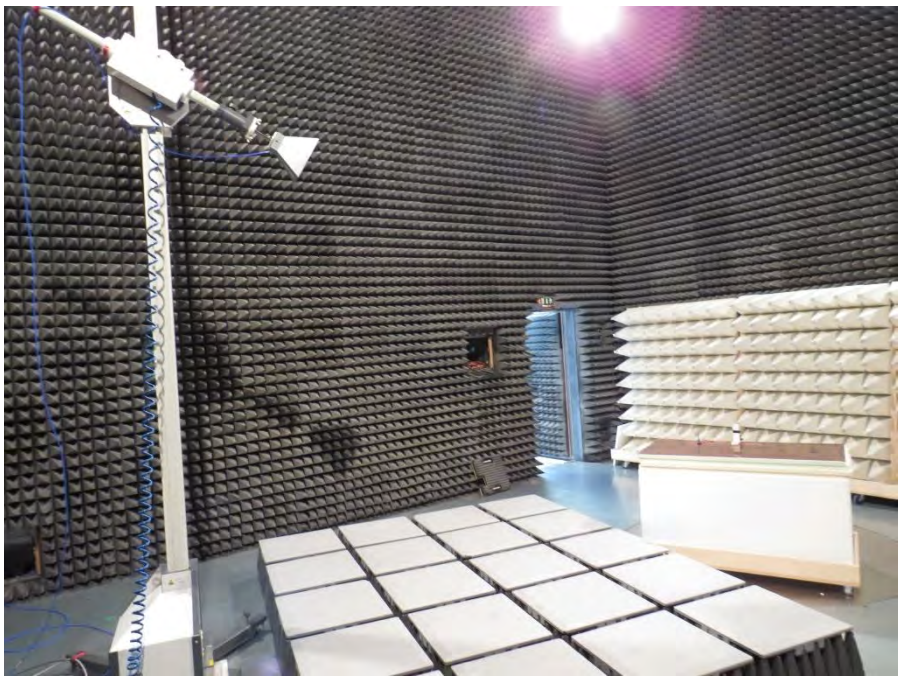
Setup 200 to 1000 MHz B



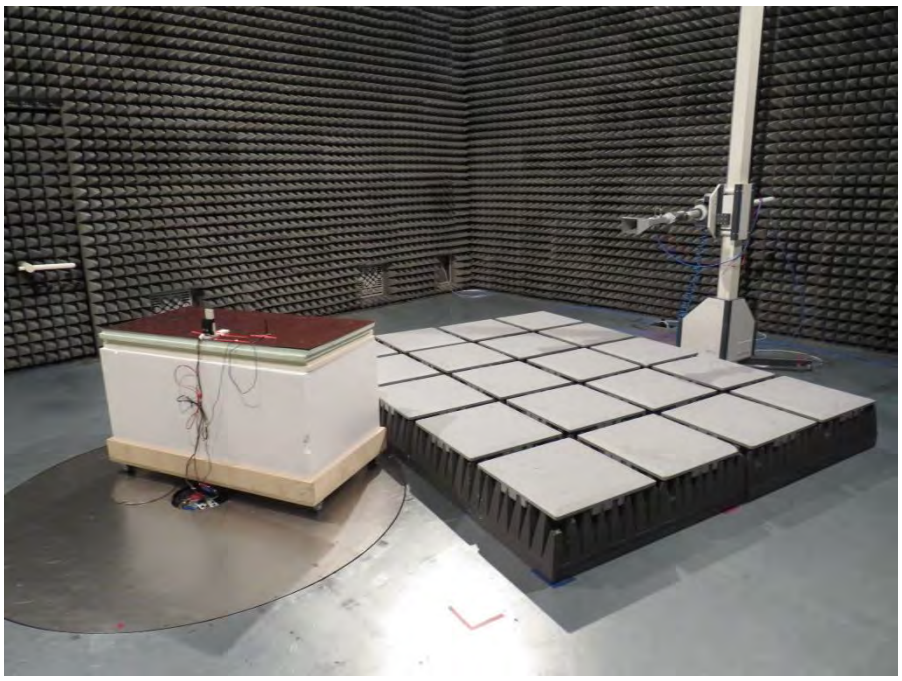
Setup 1 to 6.5 GHz A



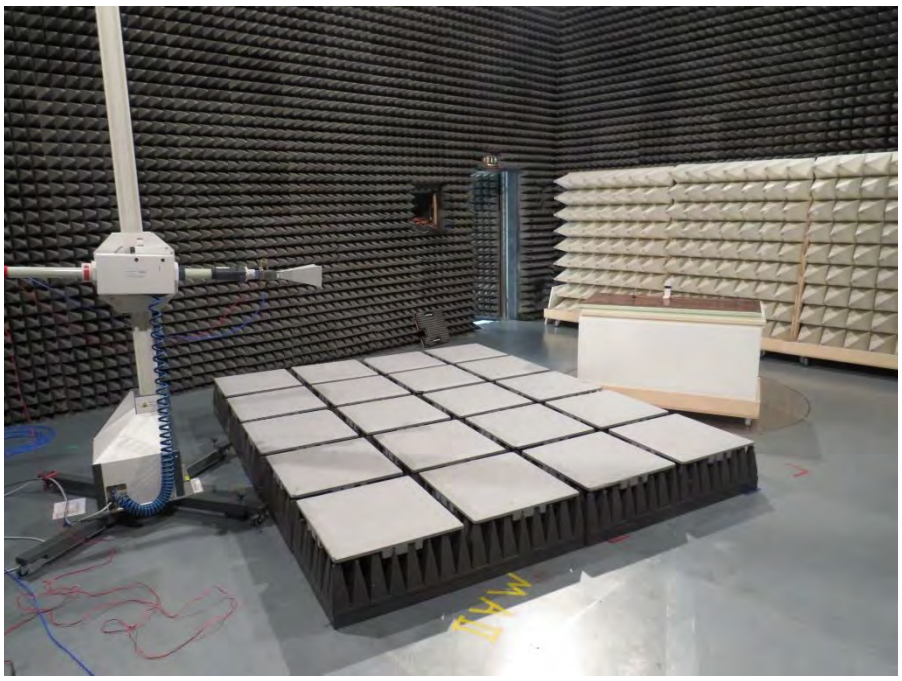
Setup 1 to 6.5 GHz B

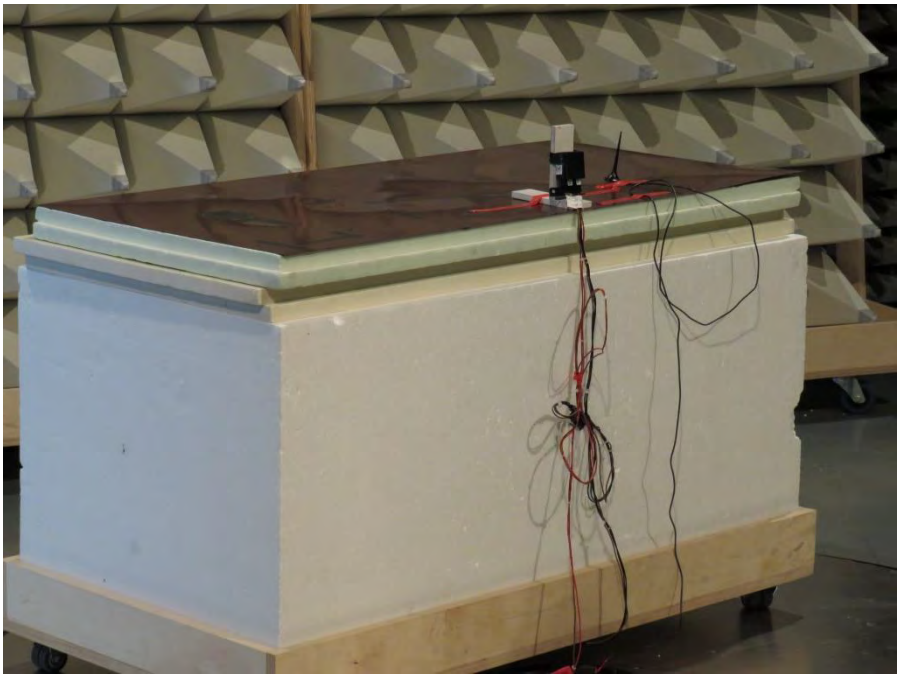


Setup 6.5 to 18 GHz A



Setup 6.5 to 18 GHz B

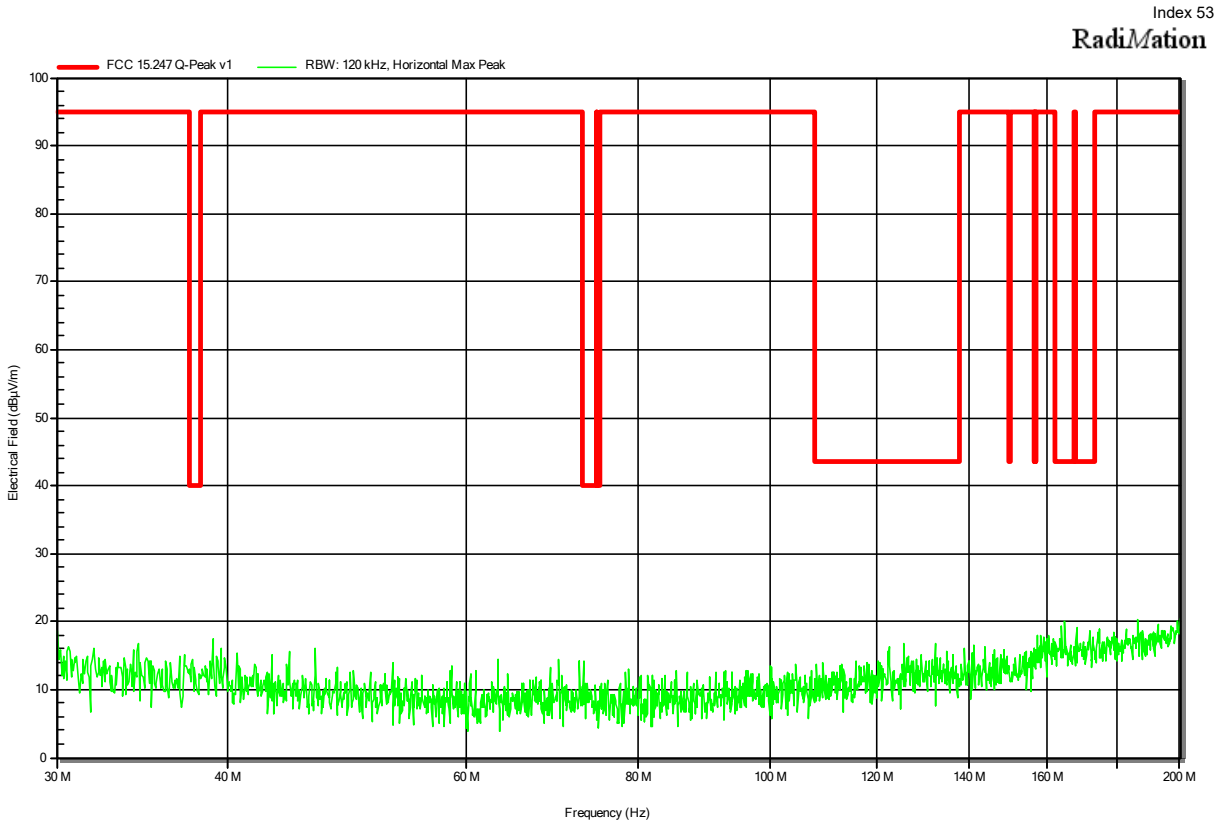


Setup table view


ANNEX A Transmitter spurious emissions

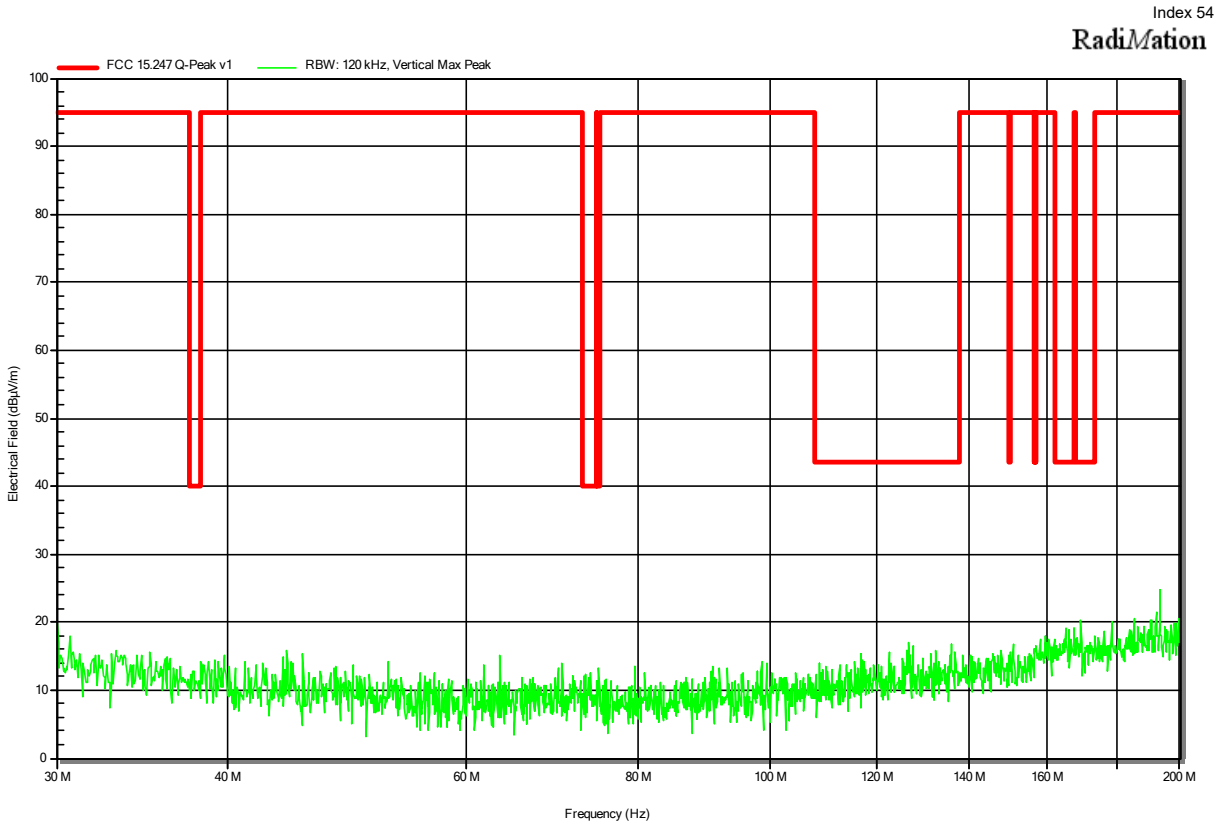
Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; 2402MHz, DH5 Single
Test Date:	2021-08-20
Note:	



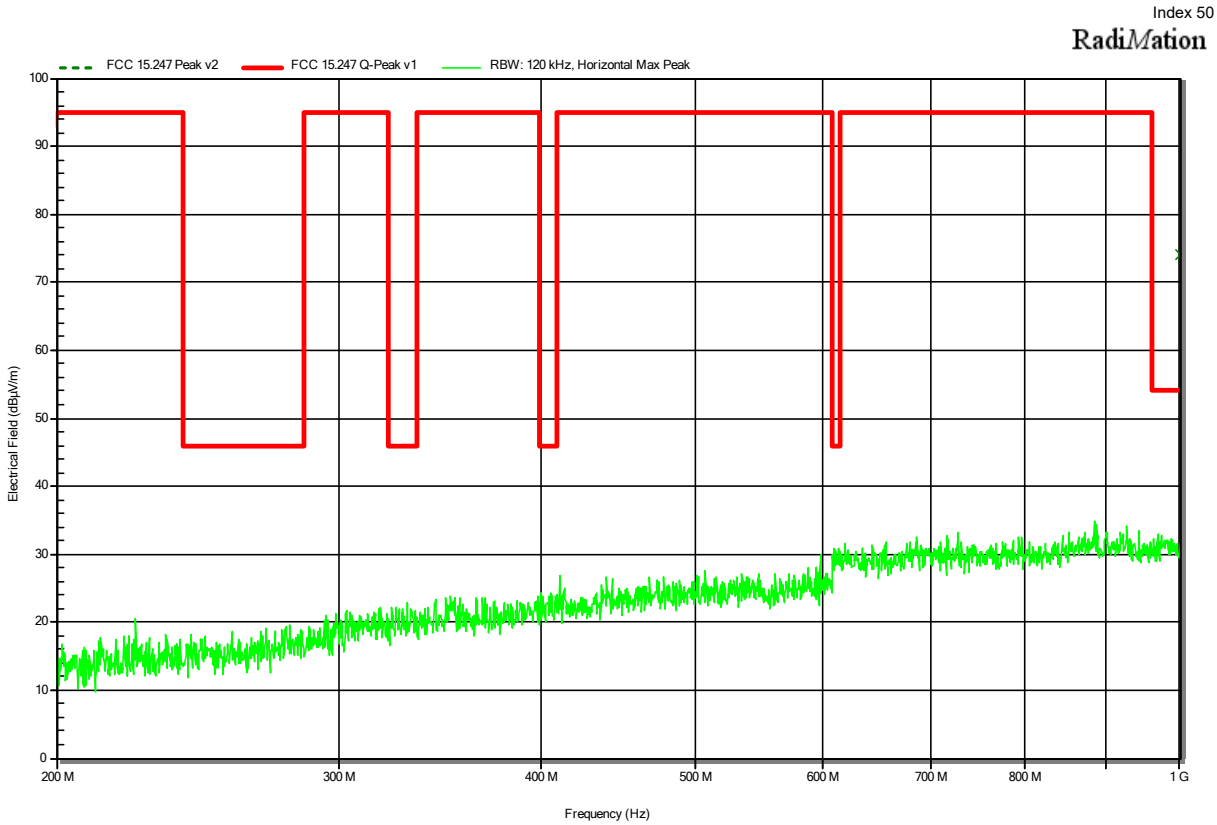
Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; 2402MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; 2402MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

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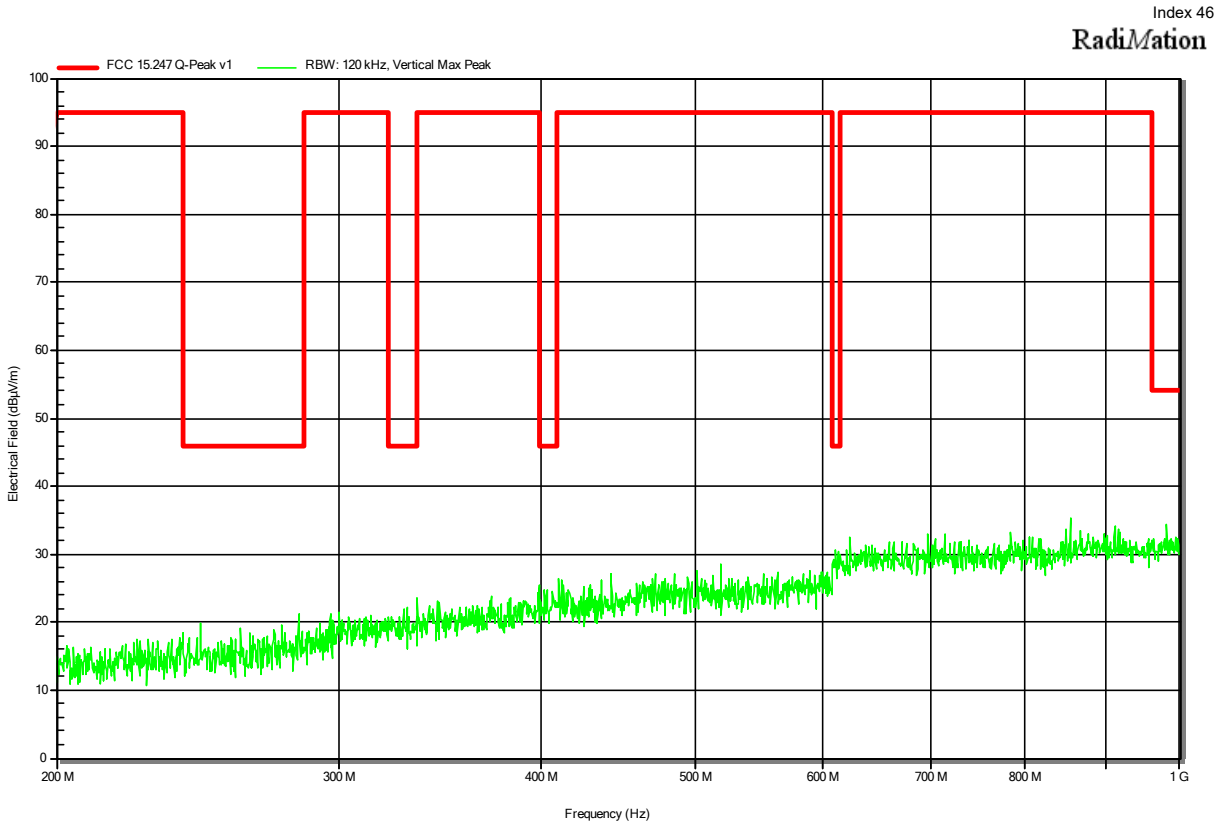
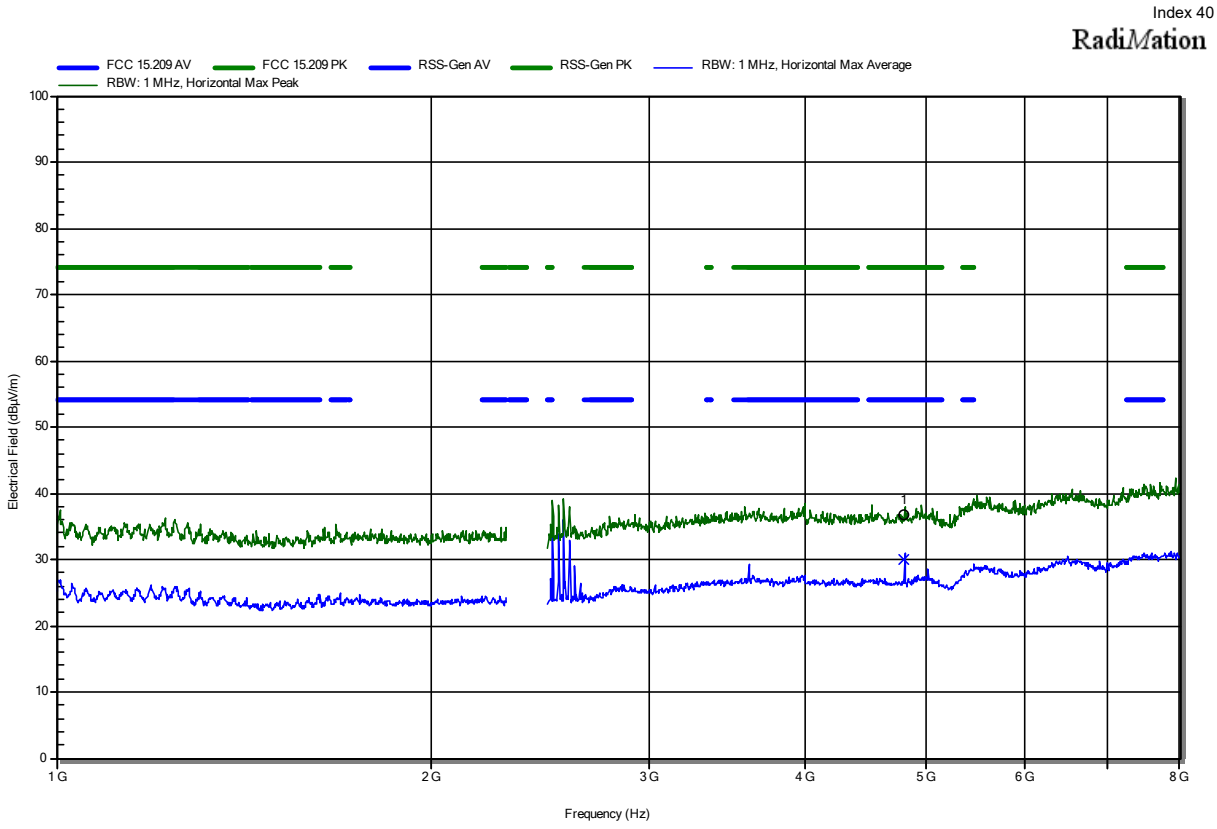
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; 2402MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2402MHz, DH5 Single
Test Date:	2021-08-19
Note:	



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8039 GHz	36.84 dBµV/m	74 dBµV/m	-37.16 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8039 GHz	29.88 dBµV/m	54 dBµV/m	-24.12 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

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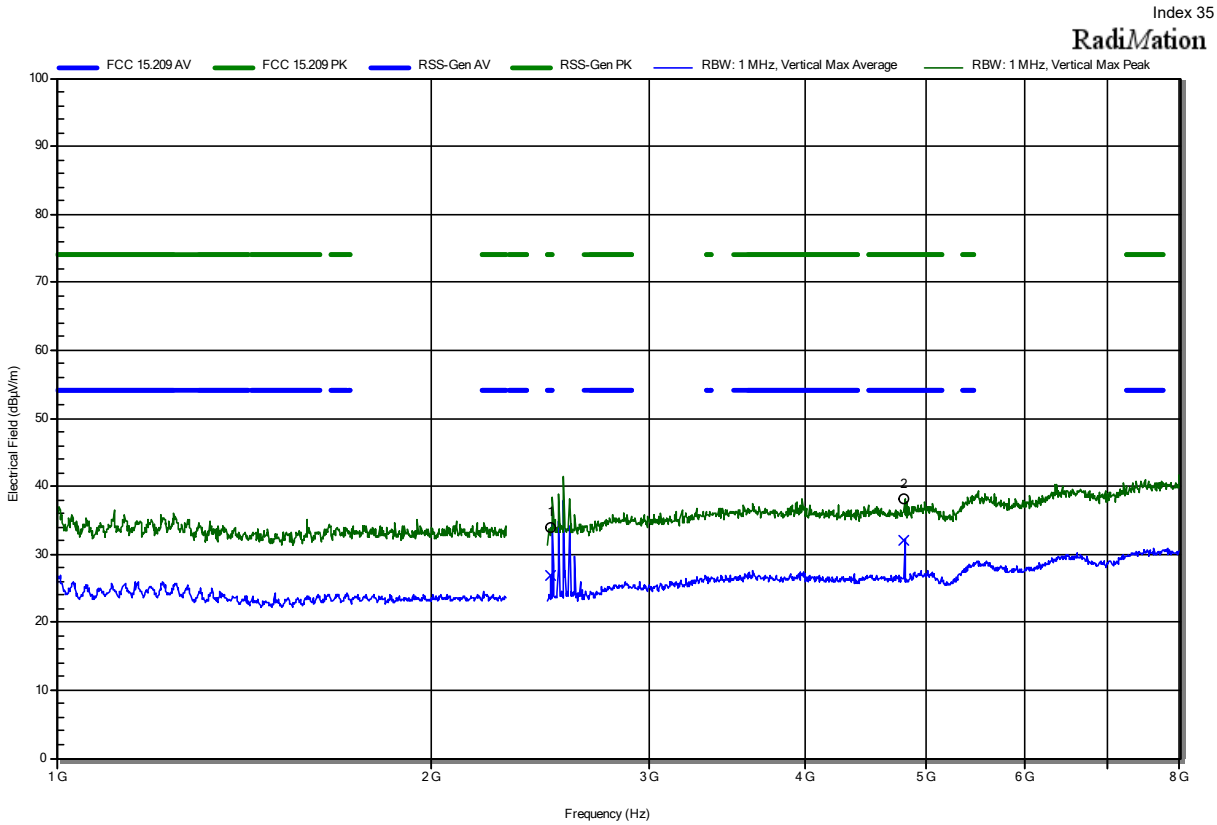
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2402MHz, DH5 Single
Test Date:	2021-08-19
Note:	



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.498 GHz	33.9 dBµV/m	74 dBµV/m	-40.1 dB	Pass	Vertical
4.8039 GHz	38.22 dBµV/m	74 dBµV/m	-35.78 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.498 GHz	26.82 dBµV/m	54 dBµV/m	-27.18 dB	Pass	Vertical
4.8039 GHz	32.01 dBµV/m	54 dBµV/m	-21.99 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
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Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2402MHz, DH5 Single
Test Date:	2021-08-19
Note:	lower bandedge

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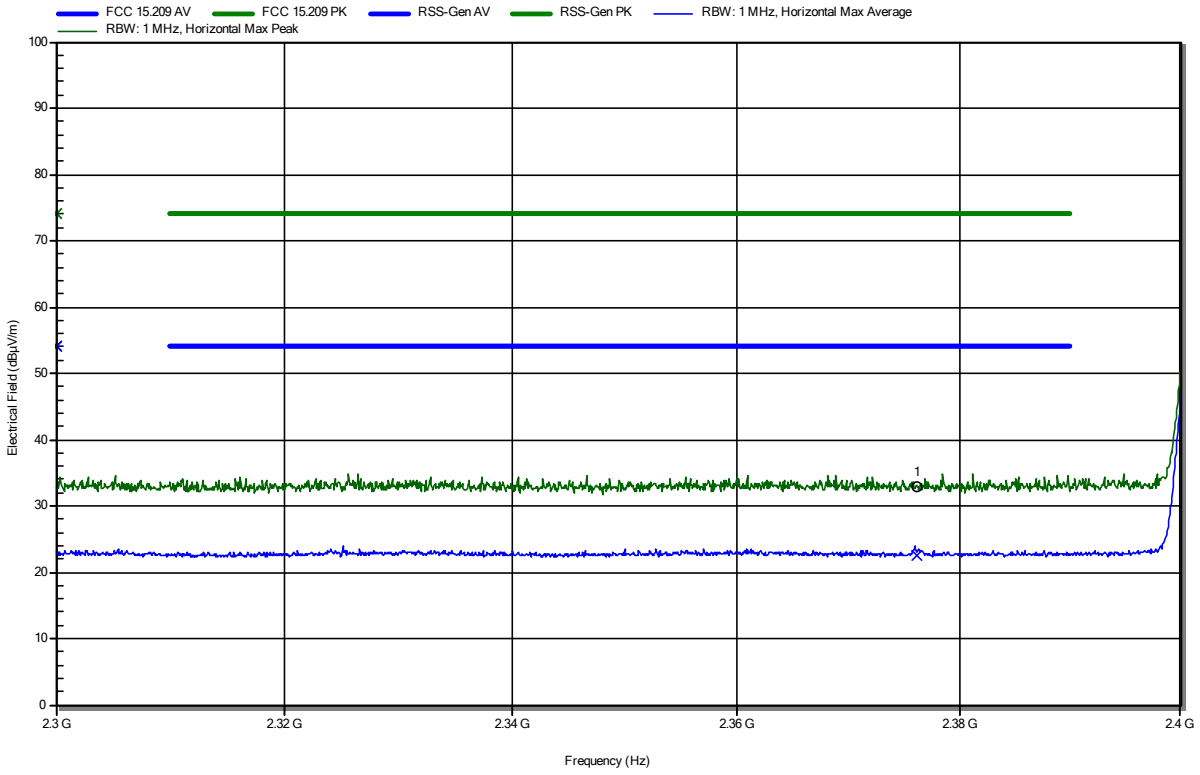

Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.3761 GHz	32.97 dBµV/m	74 dBµV/m	-41.03 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.3761 GHz	22.53 dBµV/m	54 dBµV/m	-31.47 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
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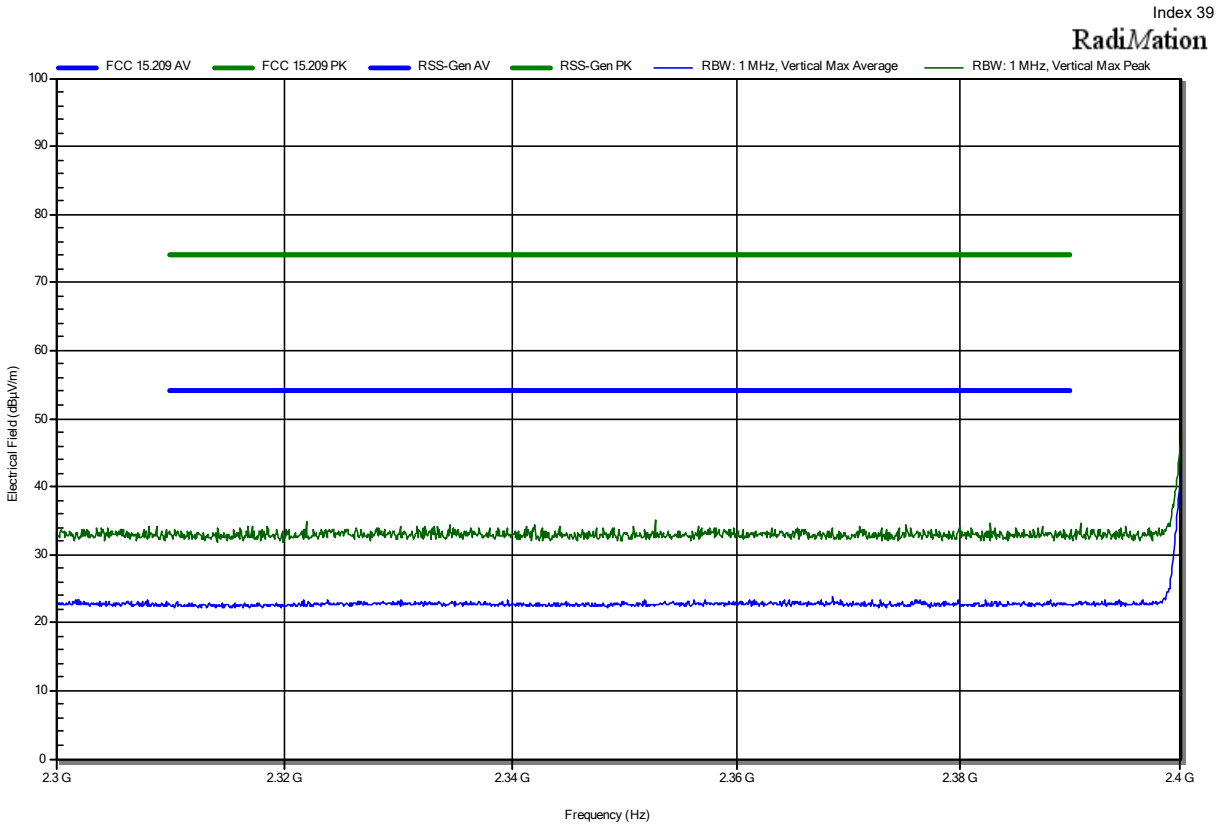
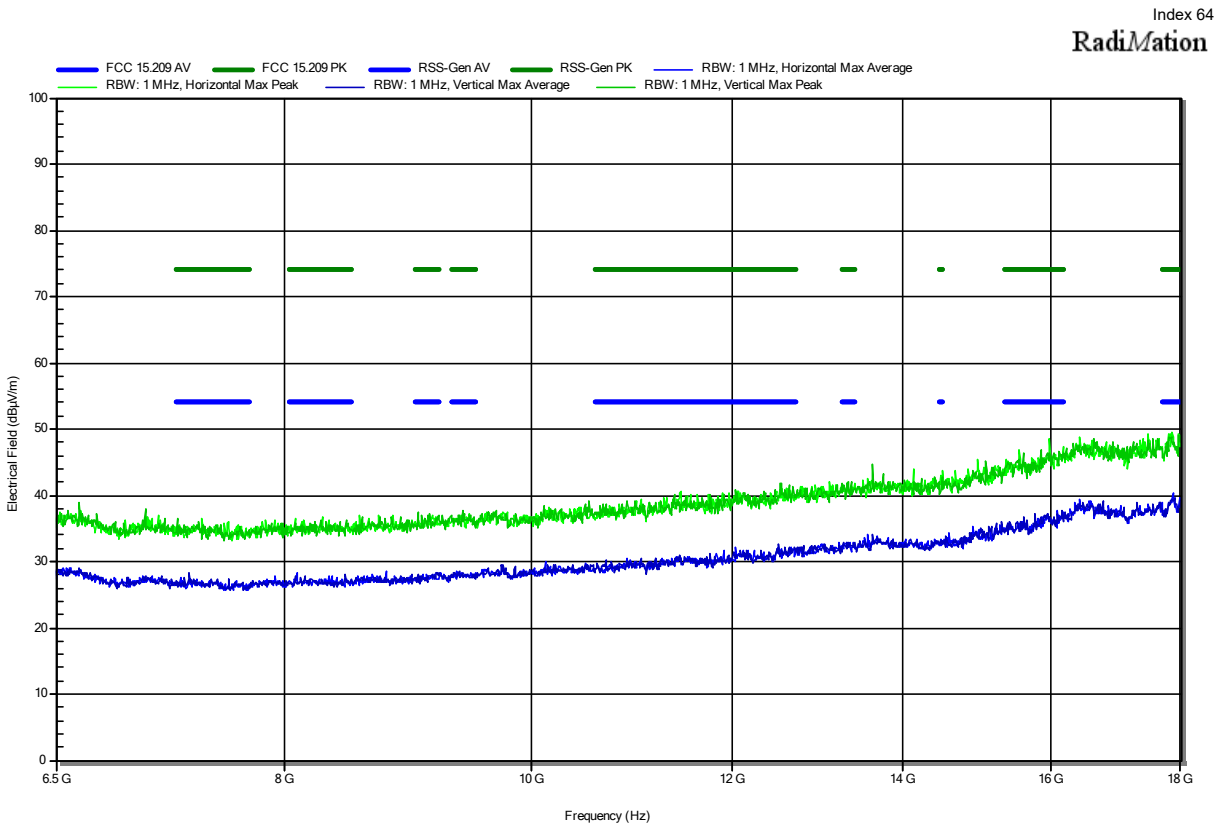
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2402MHz, DH5 Single
Test Date:	2021-08-19
Note:	lower bandedge



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; 2402MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	AT4560
Measurement distance:	3 m
Mode:	Tx; 2402MHz, DH5 Single
Test Date:	2021-08-20
Note:	

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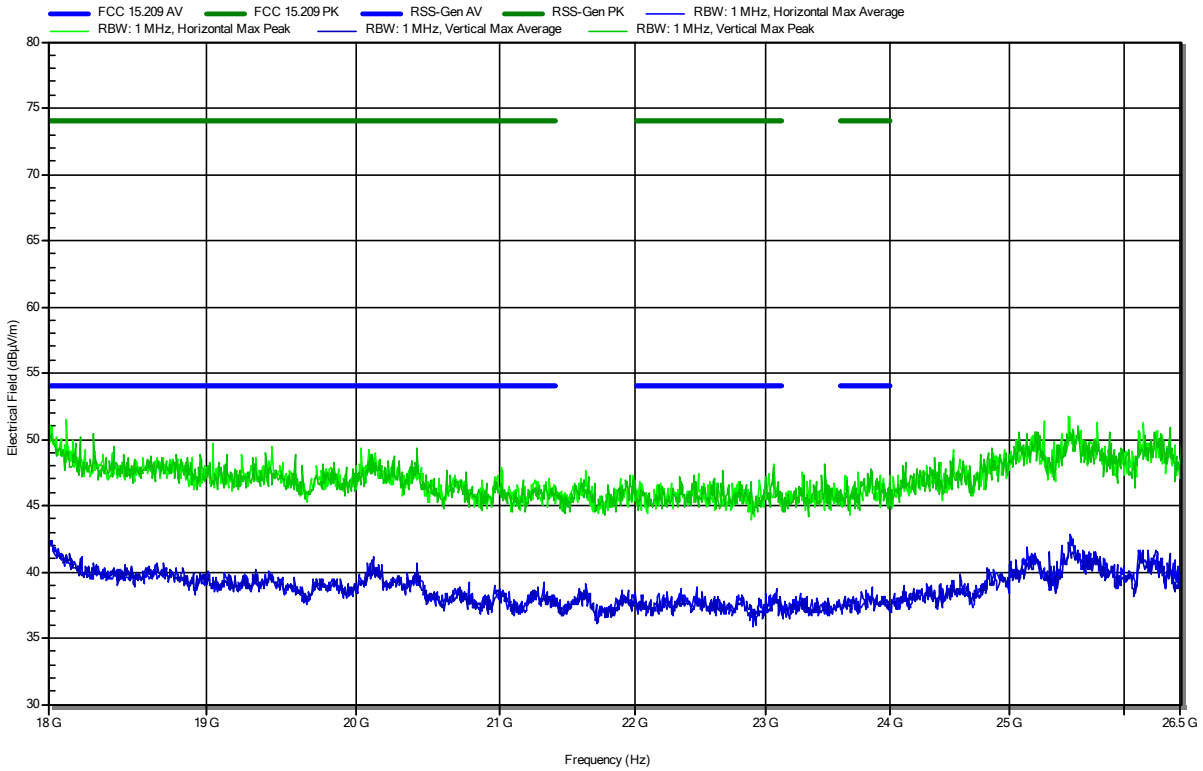
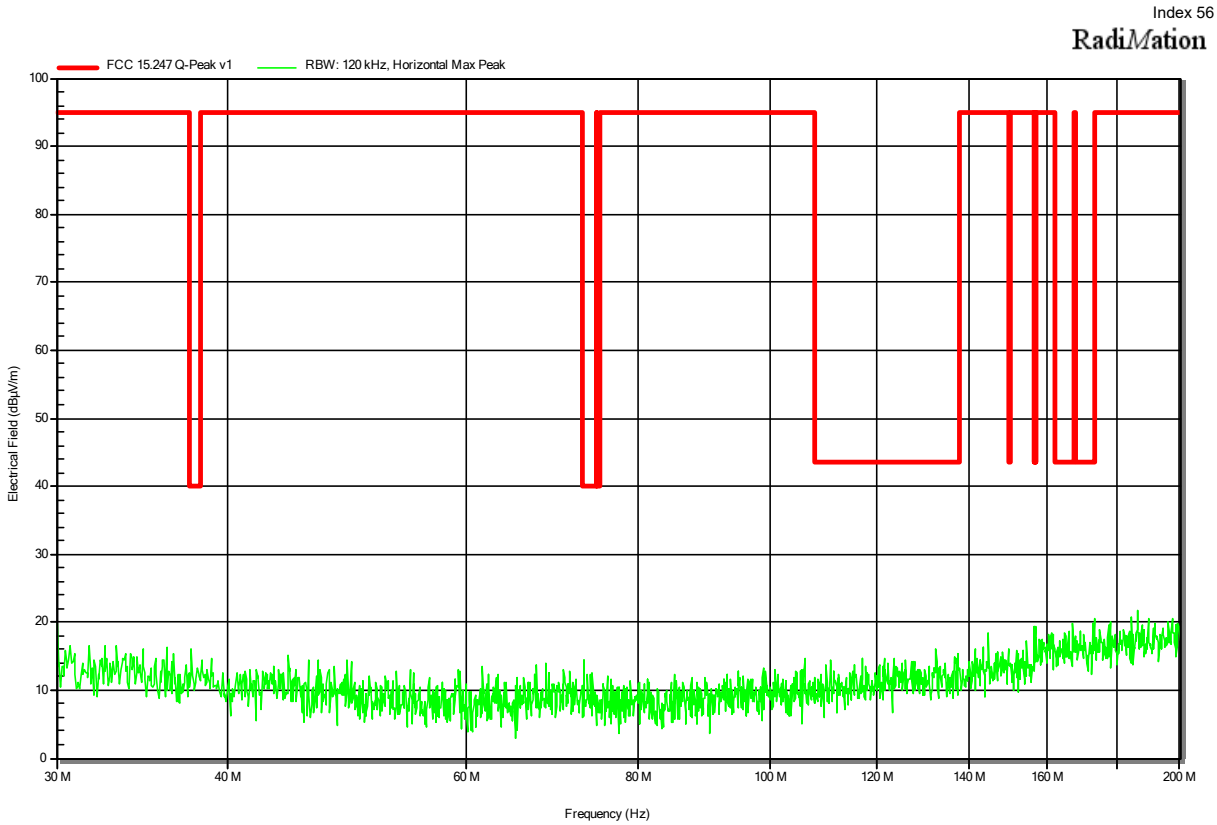
RadiMation



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; 2441MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
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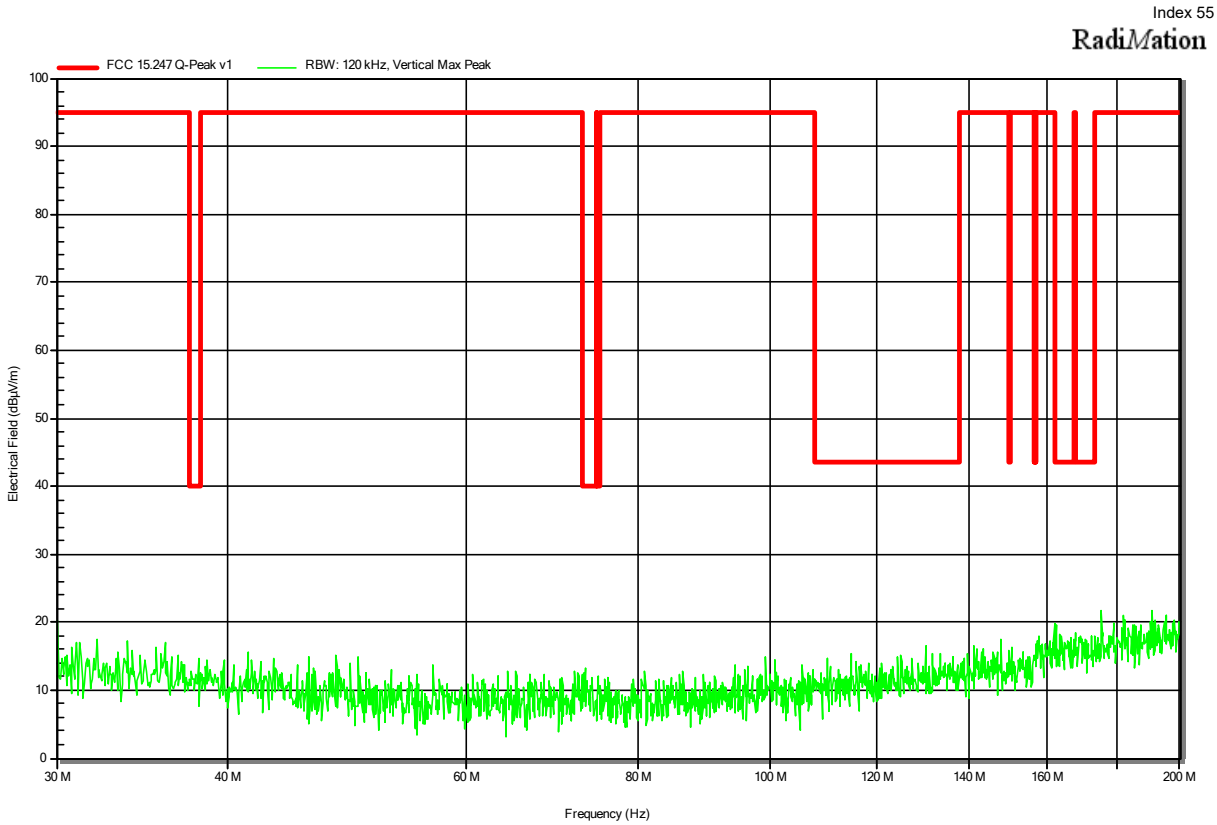
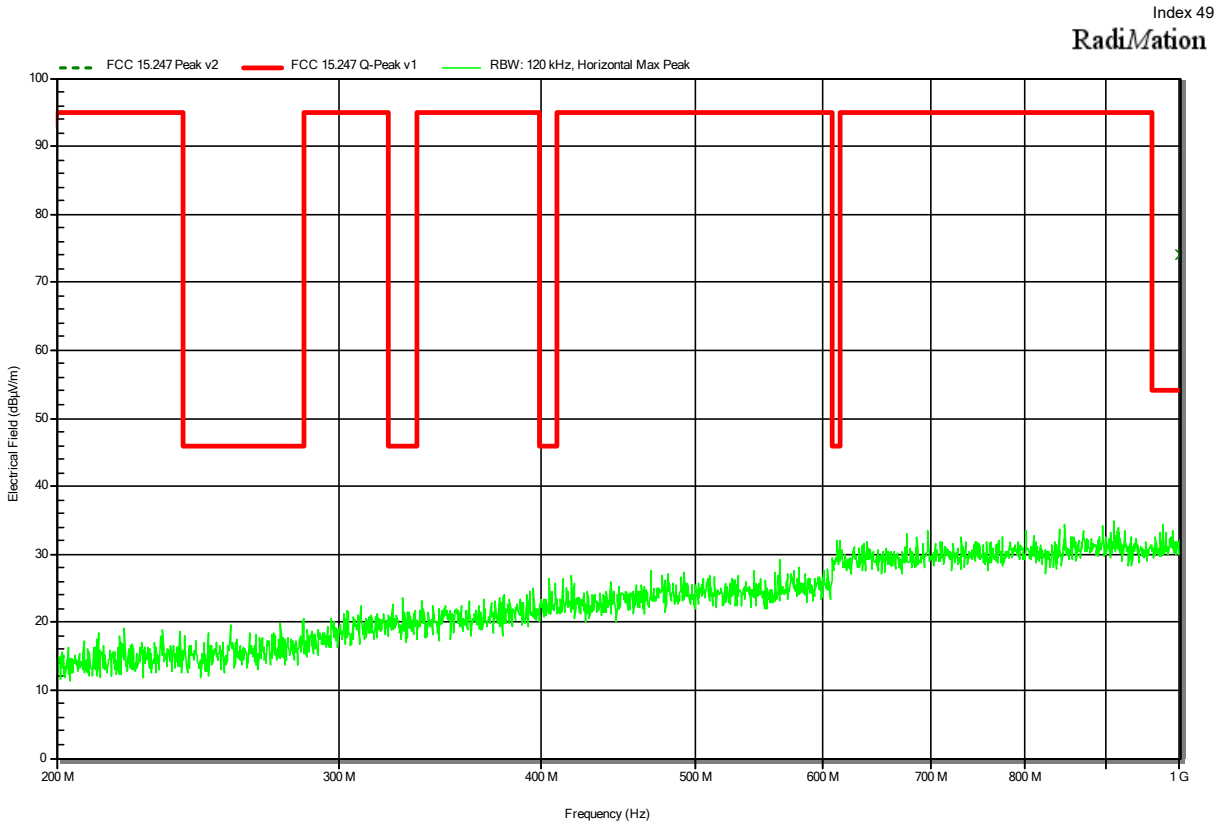
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; 2441MHz, DH5 Single
Test Date:	2021-08-20
Note:	



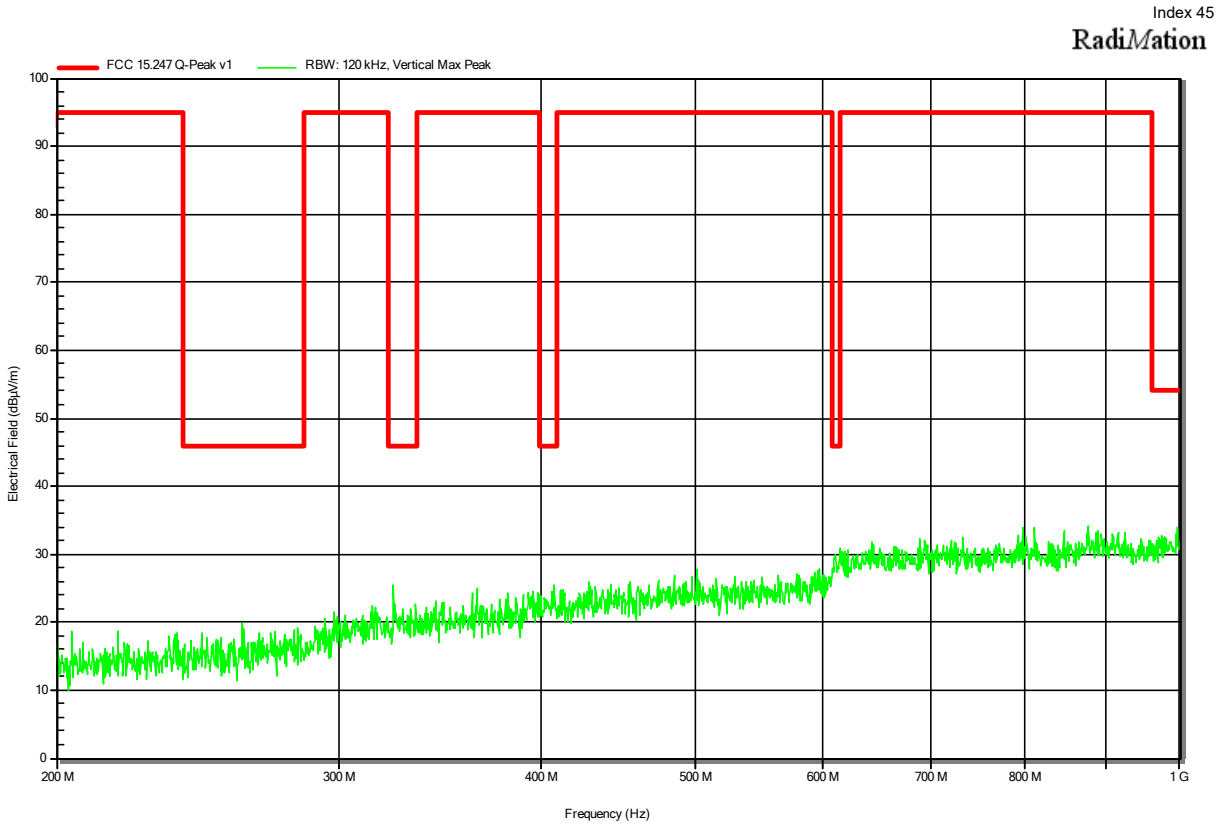
Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; 2441MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; 2441MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

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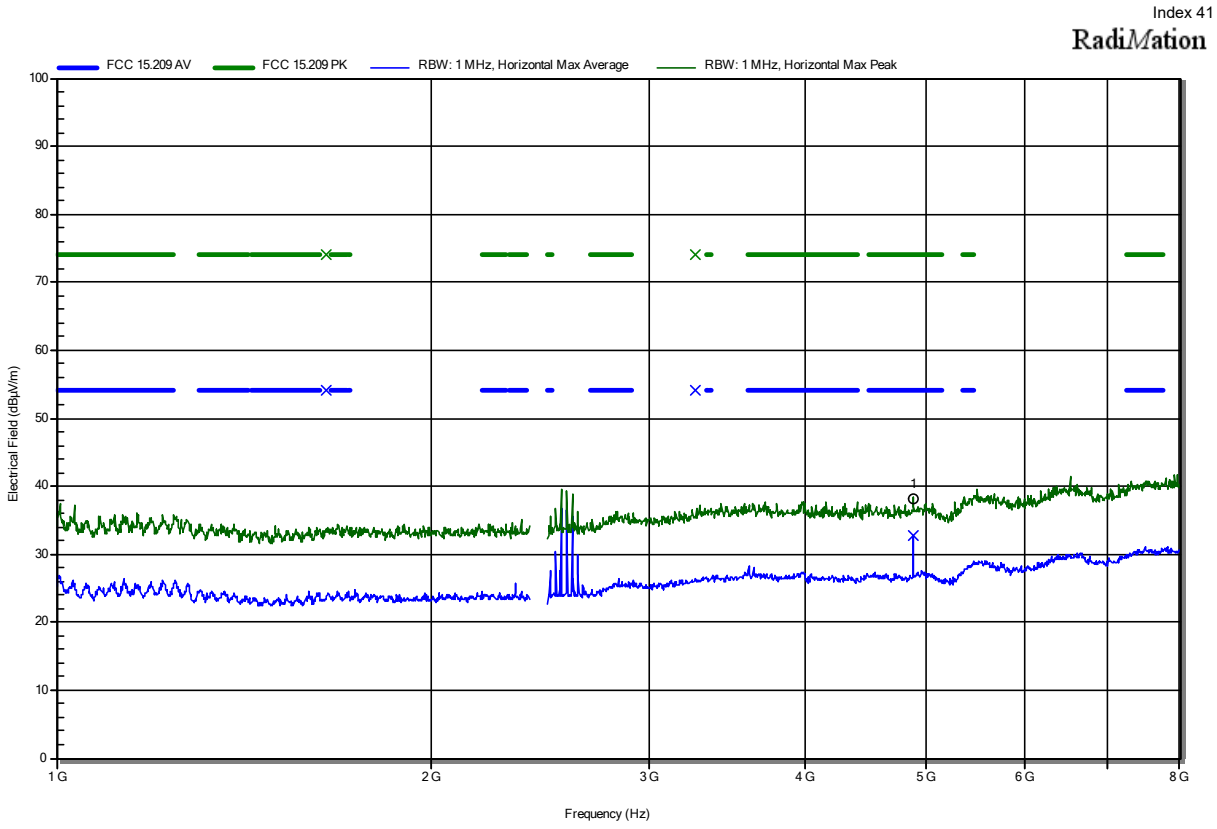
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2441MHz, DH5 Single
Test Date:	2021-08-19
Note:	



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8819 GHz	38.04 dBµV/m	74 dBµV/m	-35.96 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8819 GHz	32.69 dBµV/m	54 dBµV/m	-21.31 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

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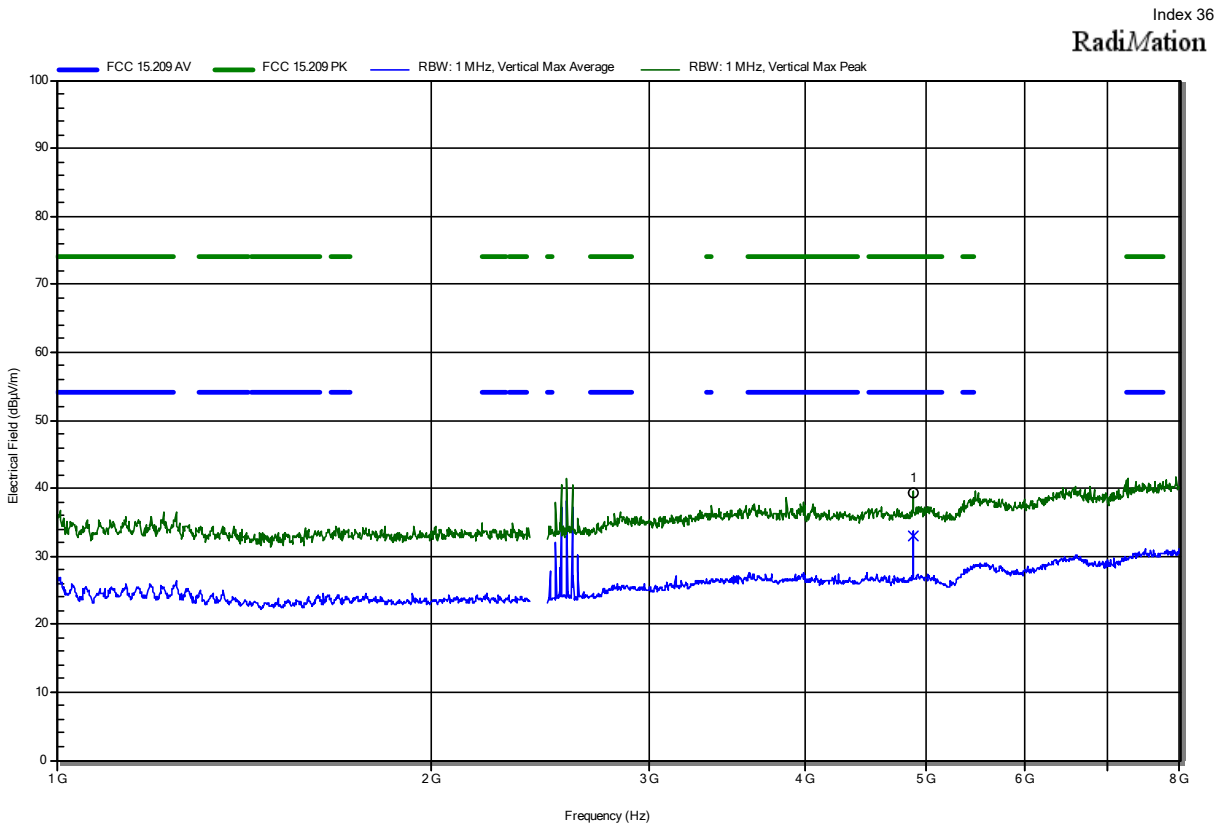
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2441MHz, DH5 Single
Test Date:	2021-08-19
Note:	



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8819 GHz	39.31 dBµV/m	74 dBµV/m	-34.69 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8819 GHz	33.01 dBµV/m	54 dBµV/m	-20.99 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

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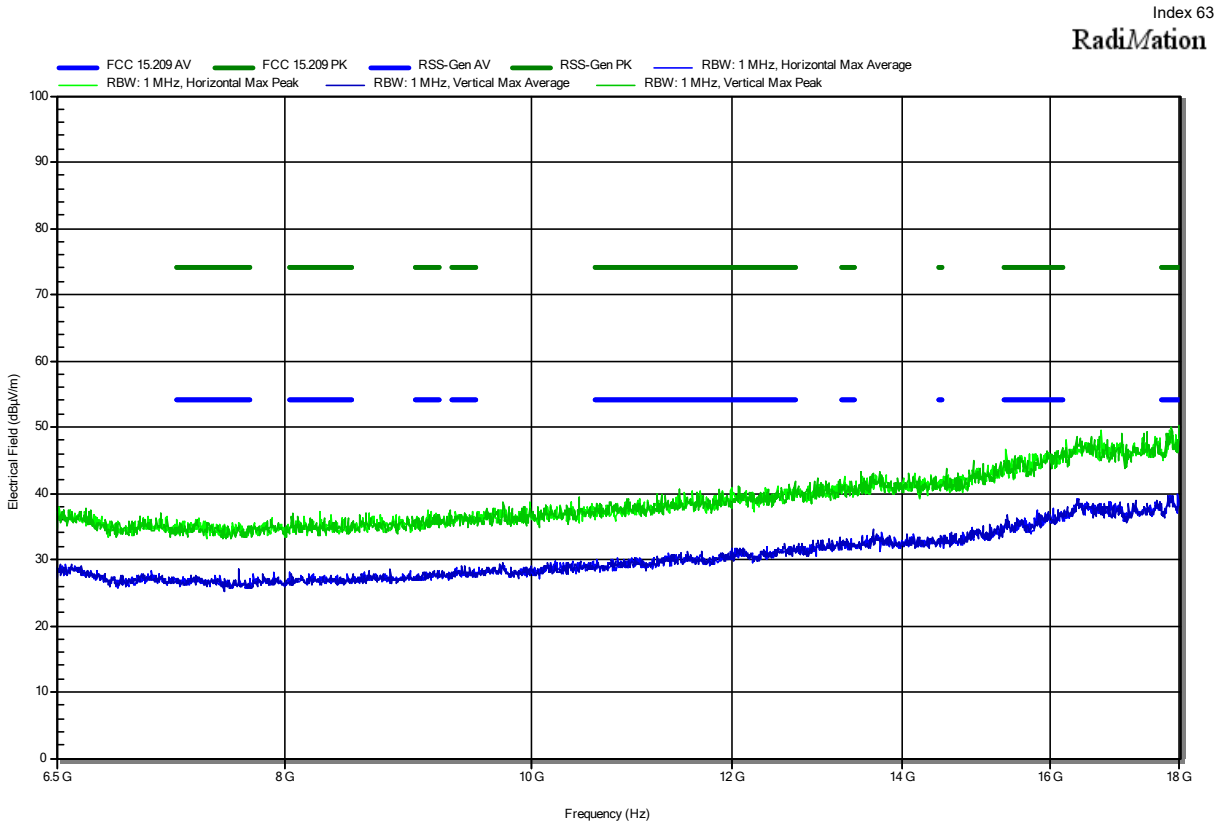
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; 2441MHz, DH5 Single
Test Date:	2021-08-20
Note:	



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Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	AT4560
Measurement distance:	3 m
Mode:	Tx; 2441MHz, DH5 Single
Test Date:	2021-08-20
Note:	

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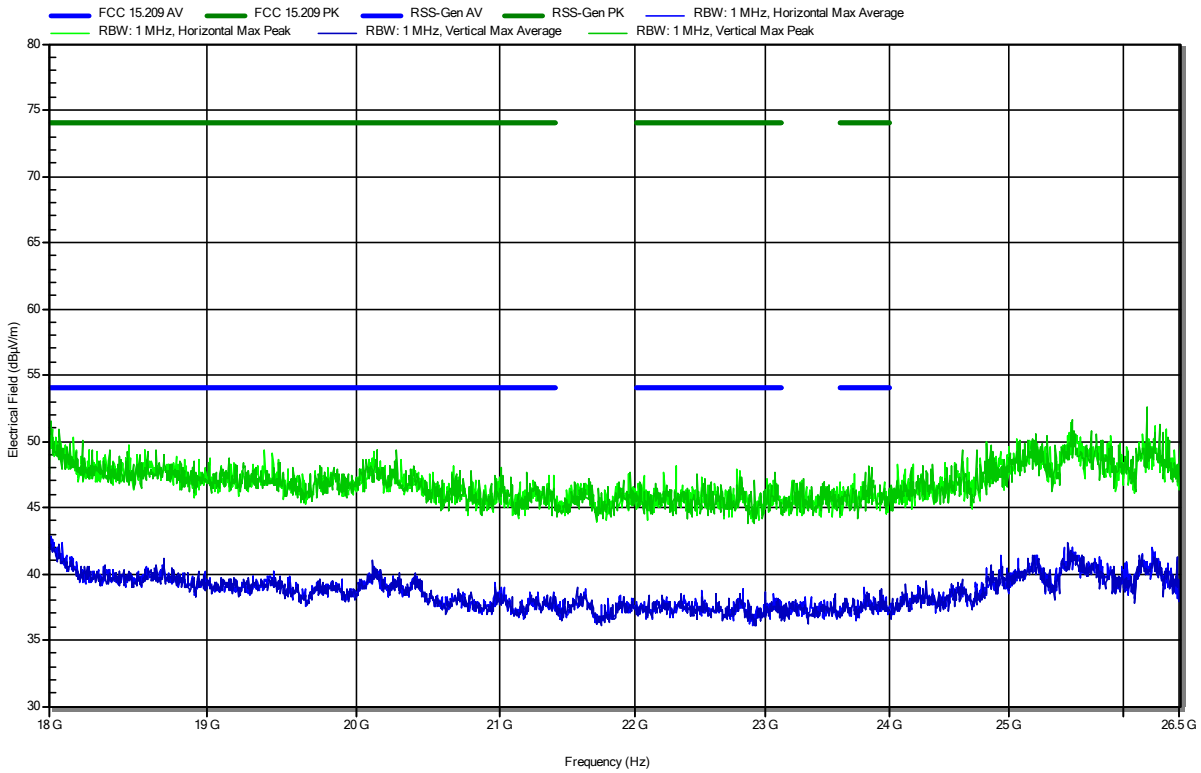
RadiMation



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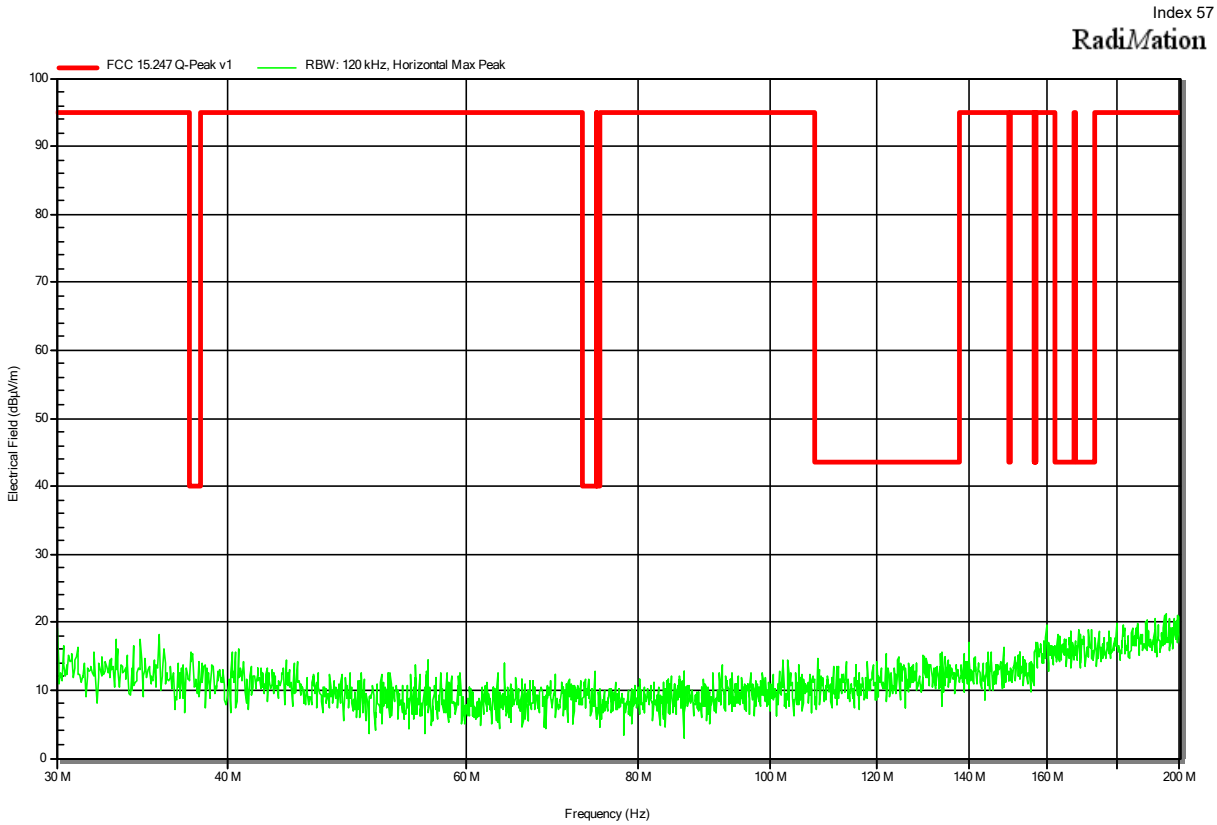
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; 2480MHz, DH5 Single
Test Date:	2021-08-20
Note:	



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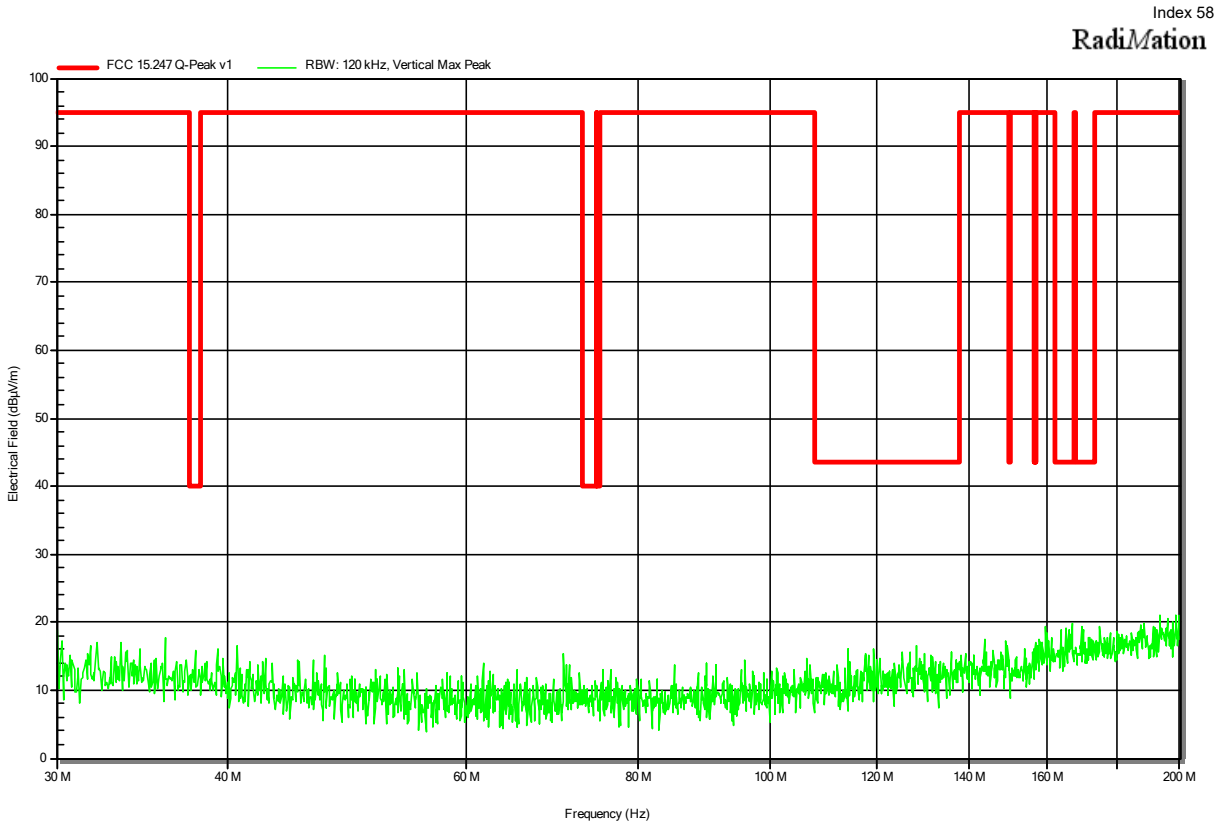
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; 2480MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

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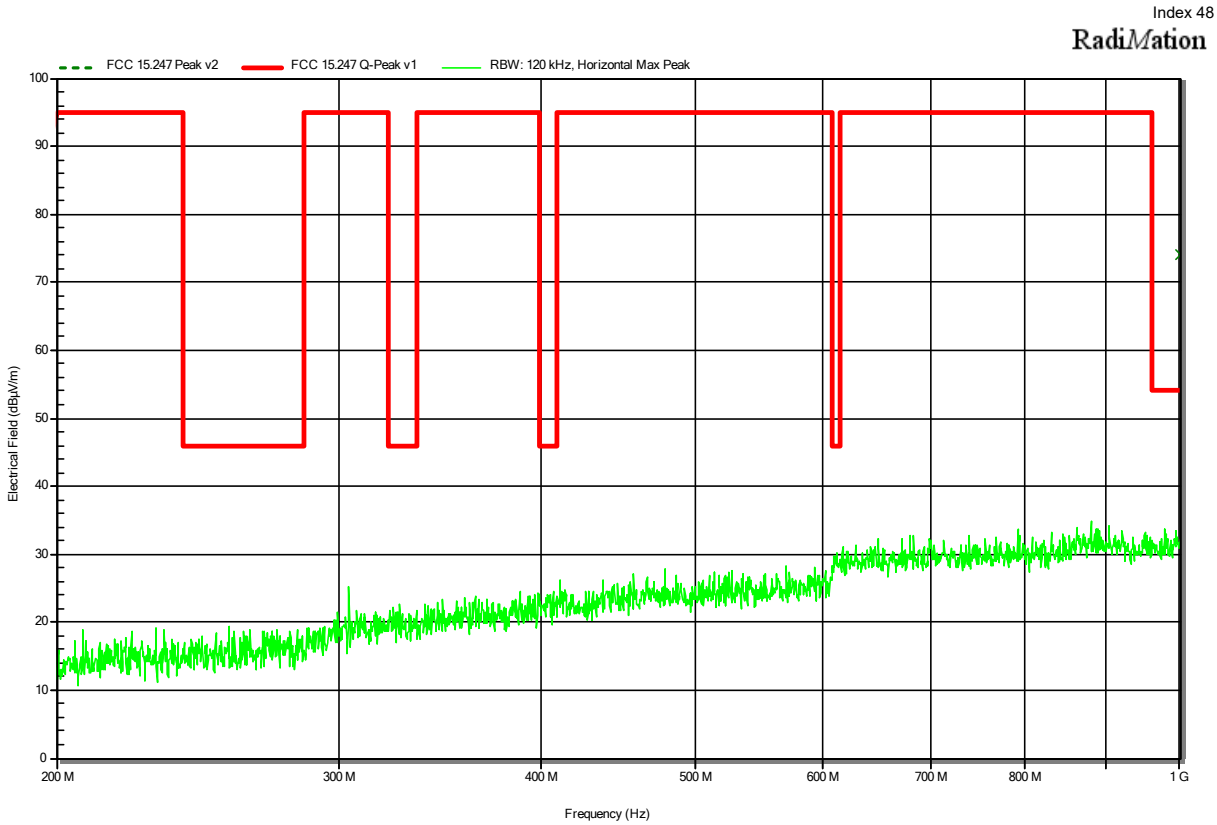
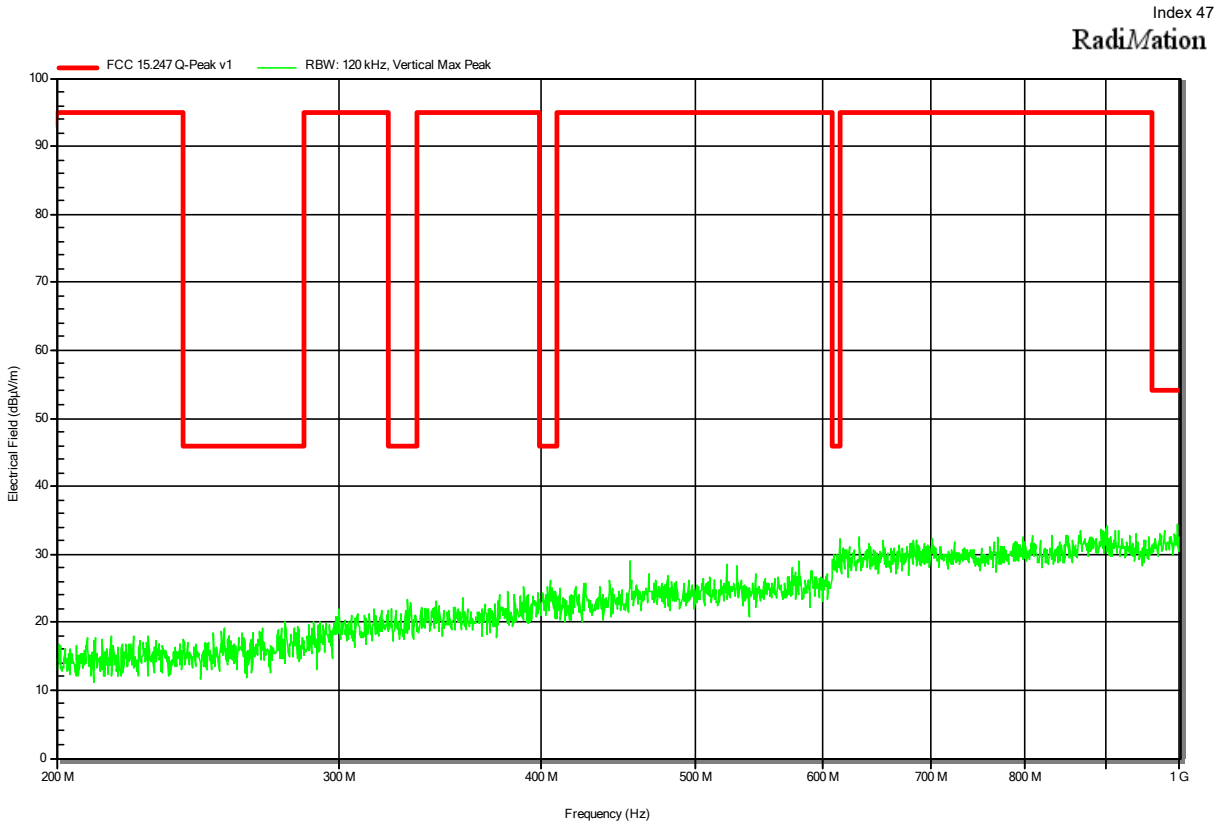
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; 2480MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; 2480MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2480MHz, DH5 Single
Test Date:	2021-08-19
Note:	

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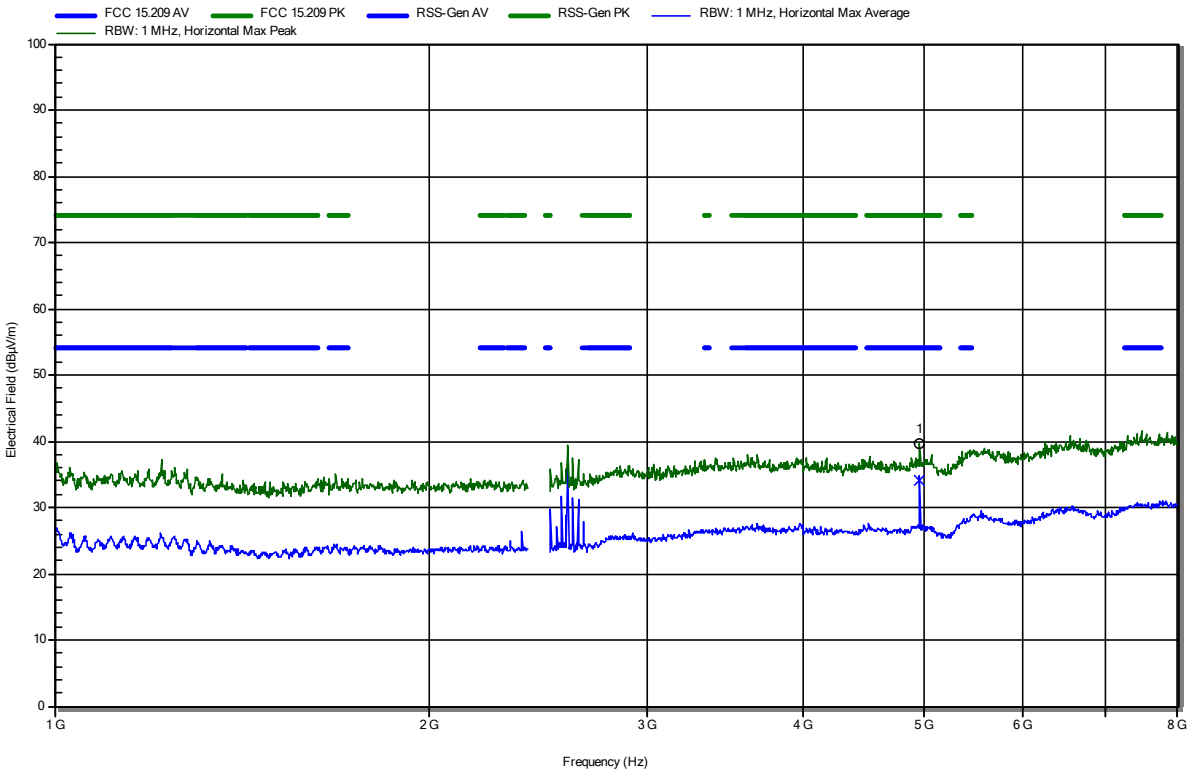
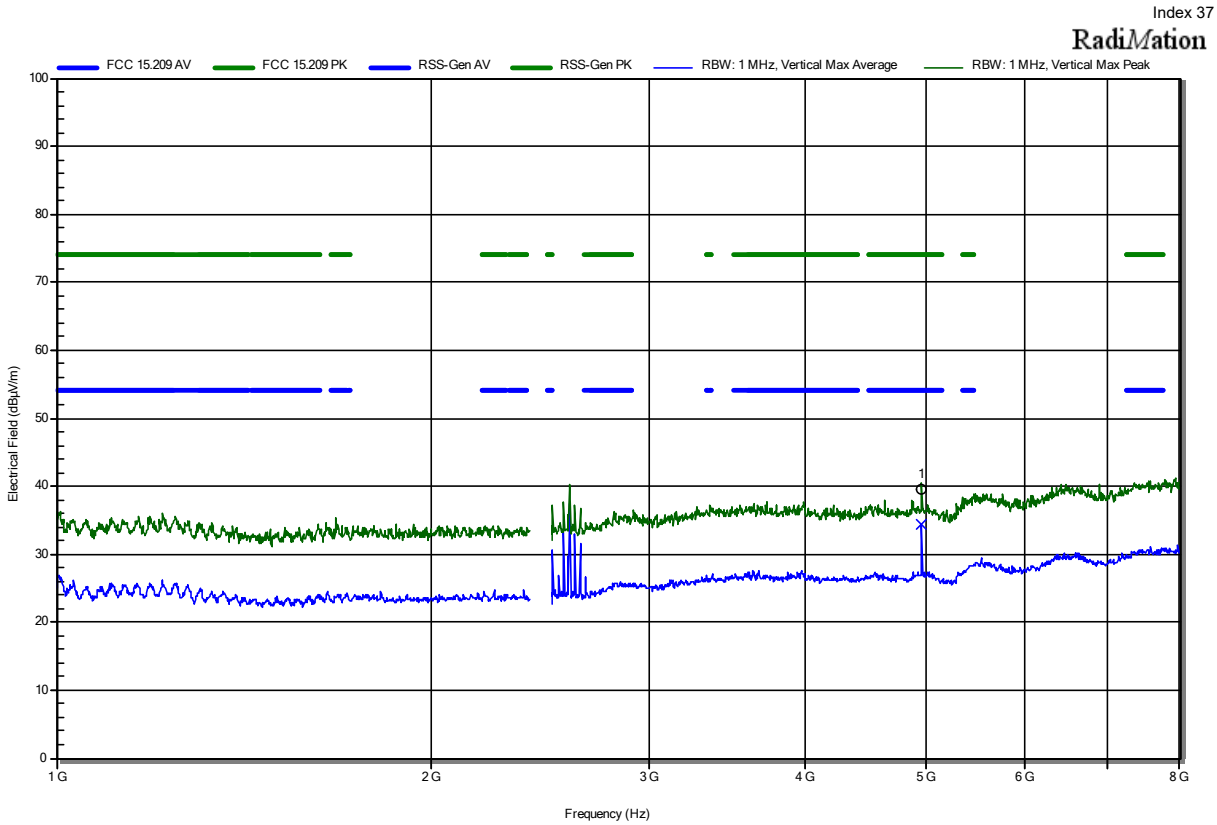


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.96 GHz	39.61 dBµV/m	74 dBµV/m	-34.39 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.96 GHz	34.11 dBµV/m	54 dBµV/m	-19.89 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2480MHz, DH5 Single
Test Date:	2021-08-19
Note:	



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.96 GHz	39.49 dBµV/m	74 dBµV/m	-34.51 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.96 GHz	34.31 dBµV/m	54 dBµV/m	-19.69 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2480MHz, DH5 Single
Test Date:	2021-08-19
Note:	upper bandedge

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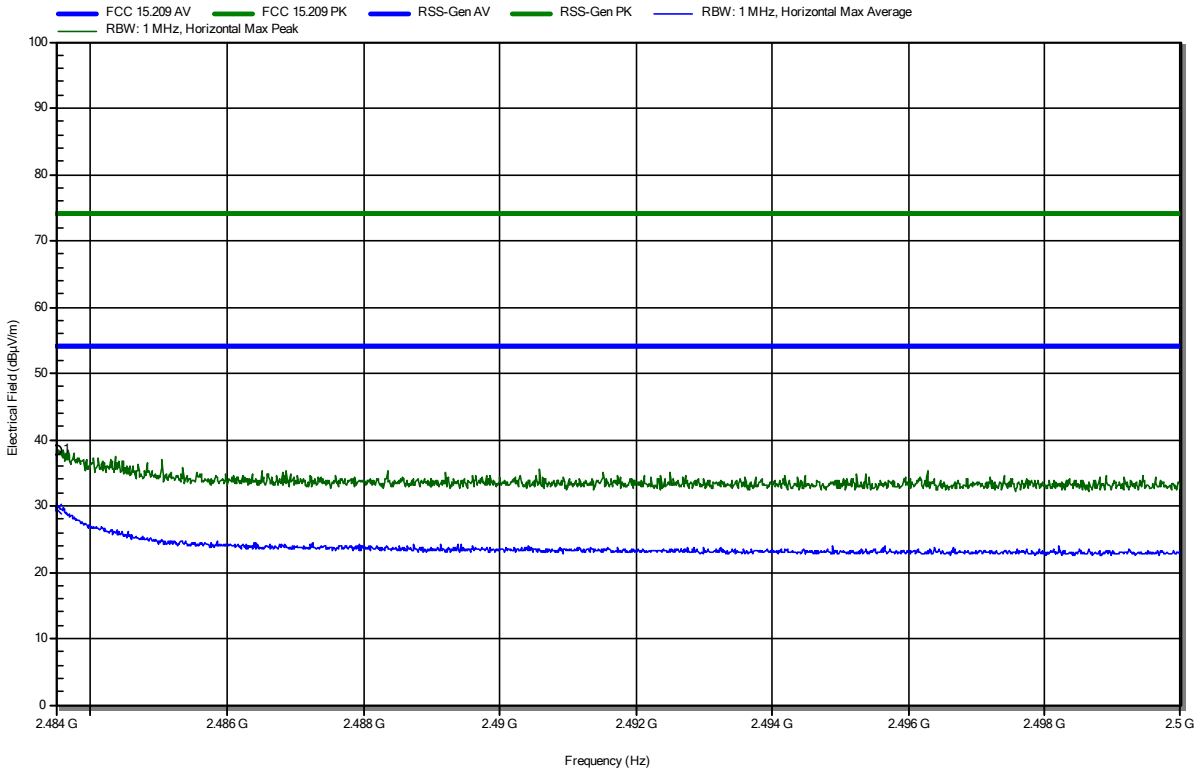
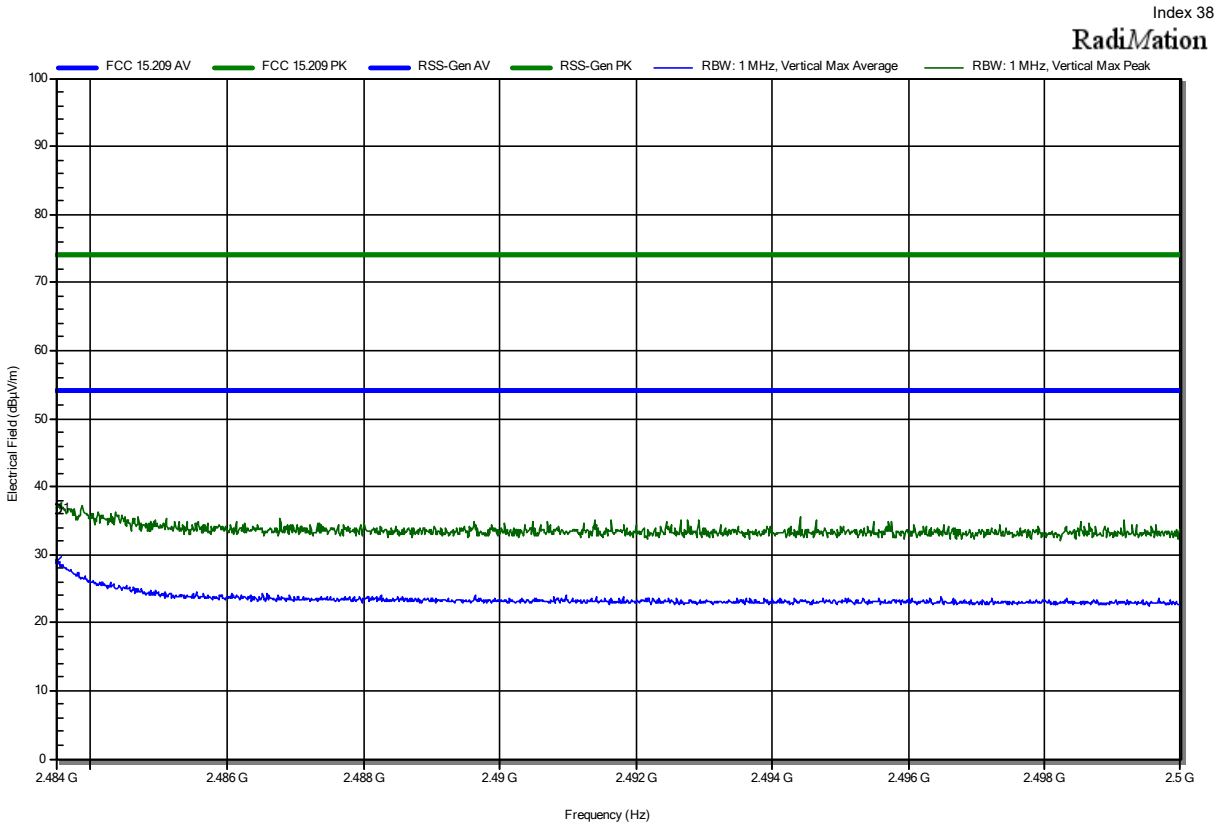


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.4835 GHz	38.34 dBµV/m	74 dBµV/m	-35.66 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.4835 GHz	29.51 dBµV/m	54 dBµV/m	-24.49 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2480MHz, DH5 Single
Test Date:	2021-08-19
Note:	upper bandedge

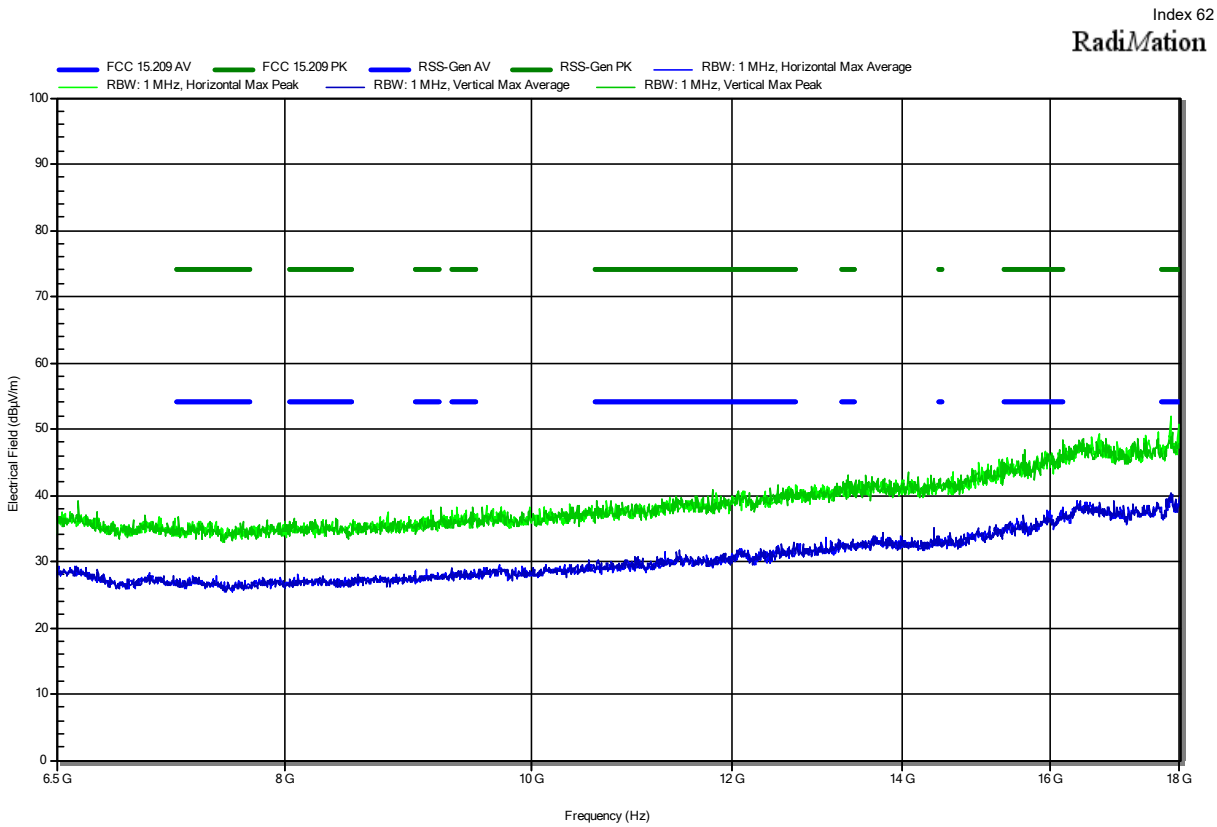


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.4835 GHz	36.69 dBµV/m	74 dBµV/m	-37.31 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.4835 GHz	28.95 dBµV/m	54 dBµV/m	-25.05 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; 2480MHz, DH5 Single
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	AT4560
Measurement distance:	3 m
Mode:	Tx; 2480MHz, DH5 Single
Test Date:	2021-08-20
Note:	

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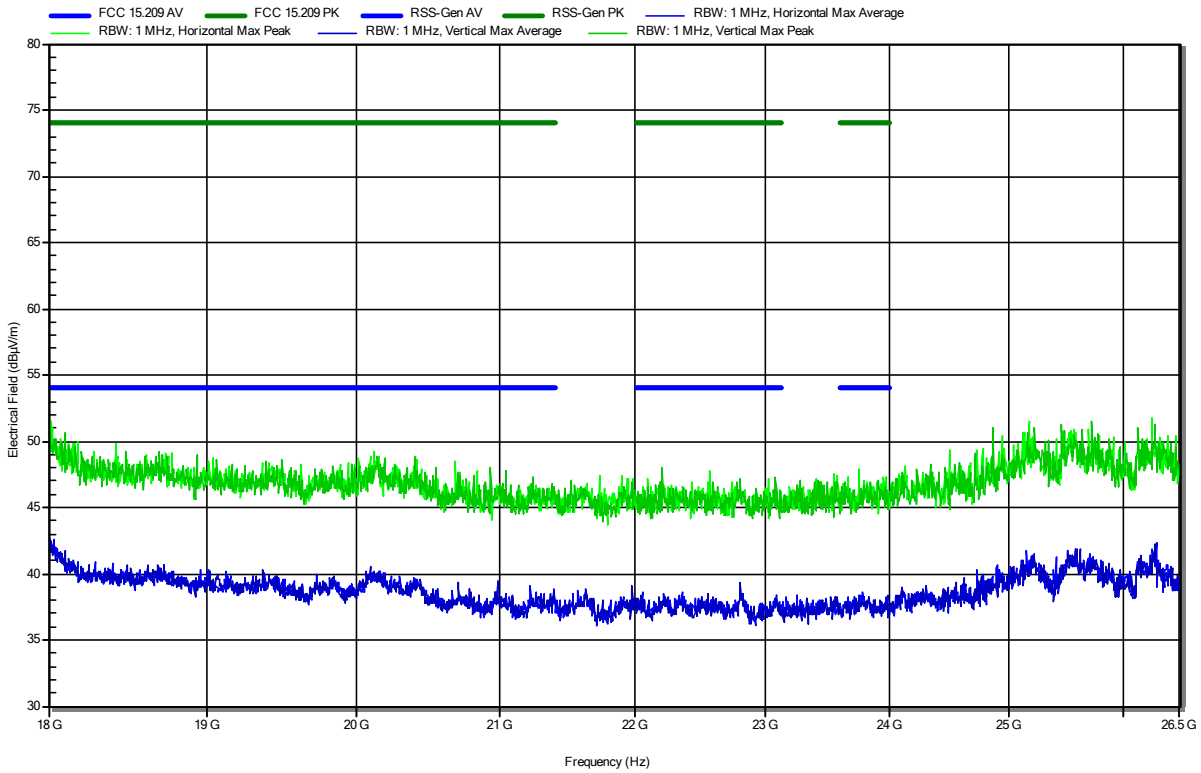
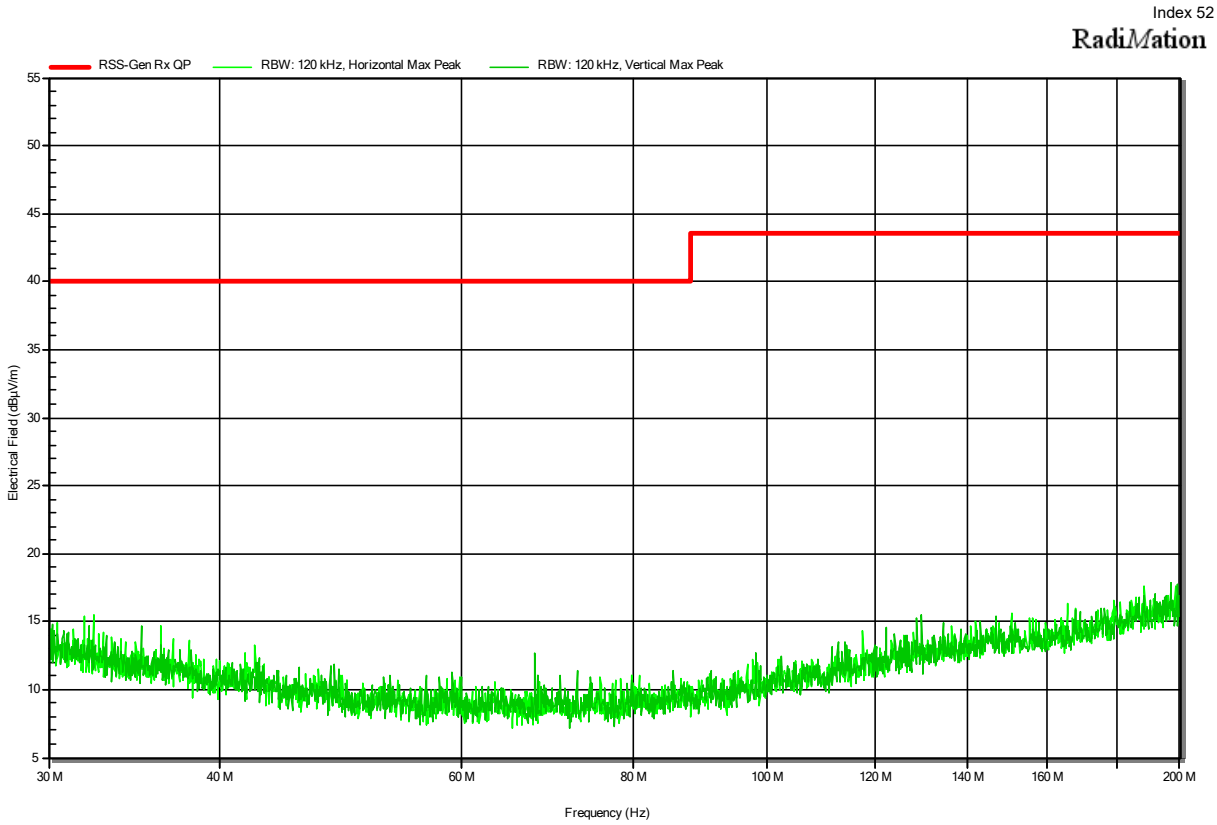


ANNEX B Receiver spurious emissions

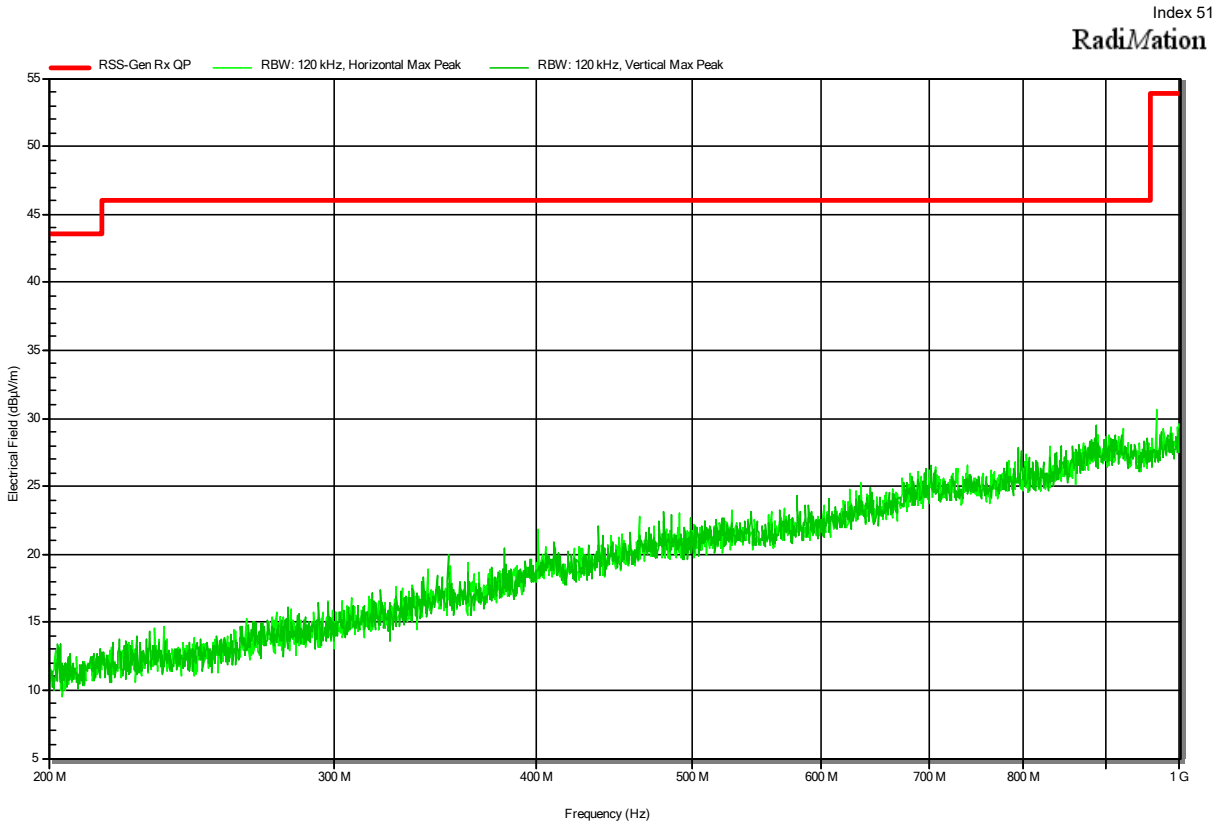
Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Rx; Receive
Test Date:	2021-08-20
Note:	



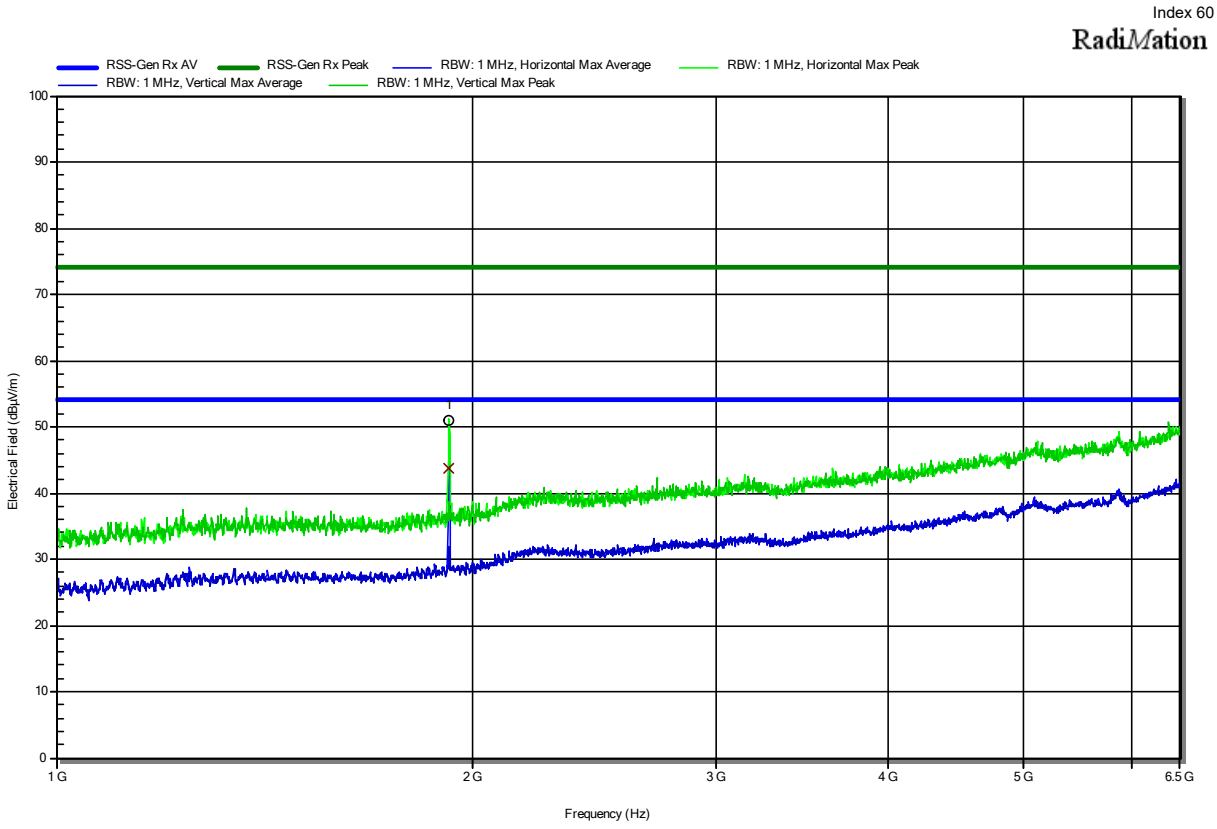
Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Rx; Receive
Test Date:	2021-08-20
Note:	



Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Rx; Receive
Test Date:	Friday, August 20, 2021
Note:	



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.923 GHz	51.00 dBµV/m	74.00 dBµV/m	-23.00 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
1.923 GHz	43.67 dBµV/m	53.98 dBµV/m	-10.31 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247, RSS-247 Issue 2

Project Number:	G0M-2104-9762
Applicant:	Webfleet Solutions B.V.
Model Description:	Telematic Device with GSM+LTE+GNSS+OBD connector
Model:	L0240
Test Sample ID:	34392
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 12 VDC
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Rx; Receive
Test Date:	2021-08-20
Note:	

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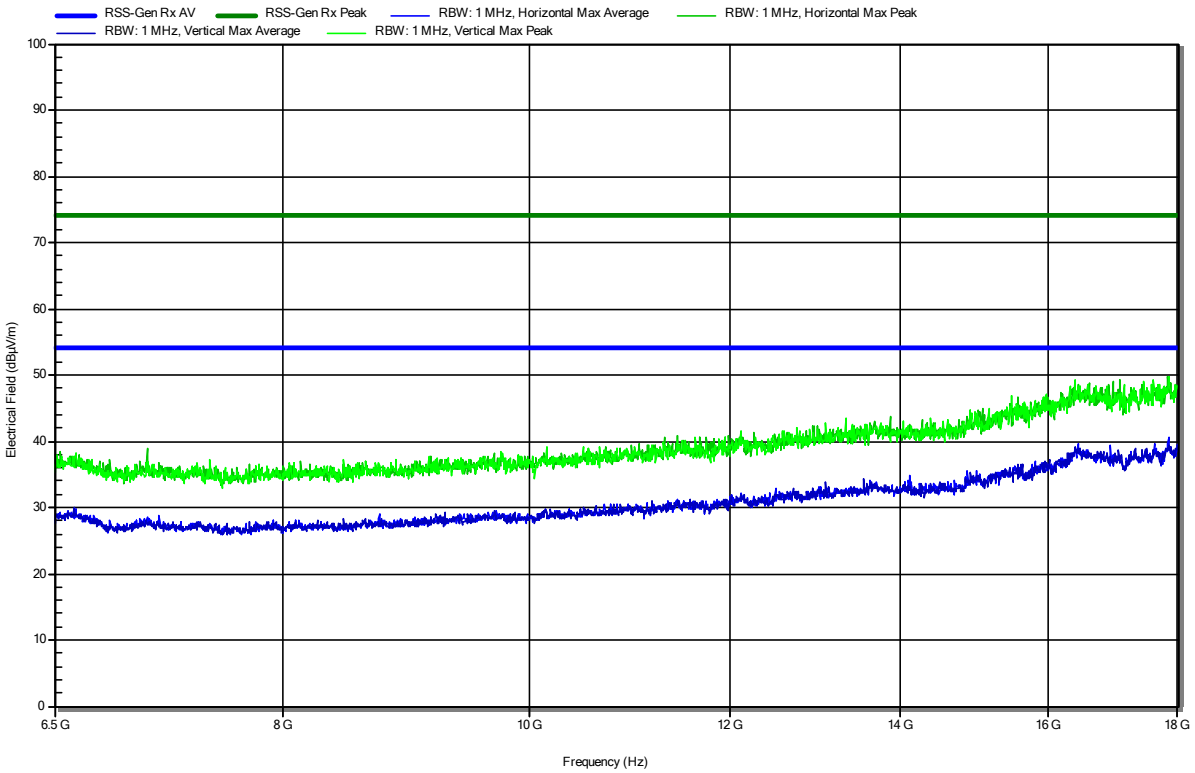

=== End of test report ===