




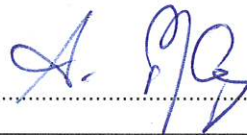


EMC TEST REPORT FCC 47 CFR Part 15B, ISED ICES-003 Issue 7	
Report Reference No	G0M-2104-9762-EF0115B-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    <p> A2LA - Registration number: 1983.01 (ISED) ISED wireless device testing laboratory: CN 3470A DAKKS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970 </p>
Applicant	Webfleet Solutions B.V.
Address	De Ruijterkade 154 1011 AC Amsterdam Netherlands
Test Specification Standard(s)	Title 47 CFR Part 15 Subpart B ISED ICES-003 Issue 7 ANSI C63.4:2014+A1:2017
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
required by standard but not appl. to test object	N/A
test object does meet the requirement	P(PASS)
test object does not meet the requirement	F(FAIL)
Testing:	
Date of receipt of test item	2021-04-29
Report:	
Compiled by	Matthias Handrik
Tested by (+ signature) (Responsible for Test)	Matthias Handrik 
Approved by (+ signature) (Test Lab Technician)	Andreas Pflug 
Date of Issue	2021-08-24
Total number of pages	50
General Remarks:	
<p>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.</p>	
Additional Comments:	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
T _{NOM}	Nominal operating temperature
V _{NOM}	Nominal supply voltage

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2021-08-24	Initial Release	

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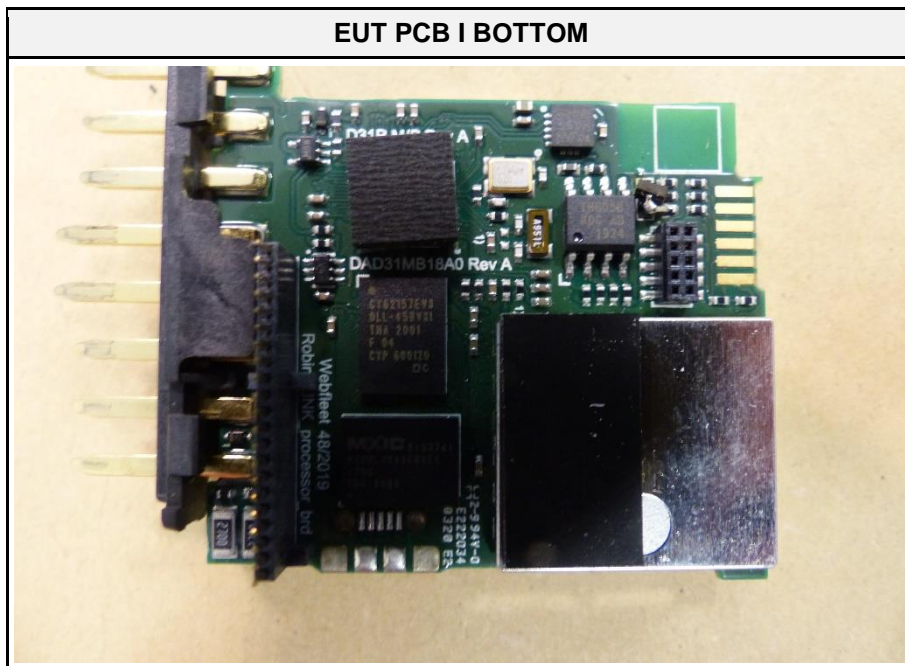
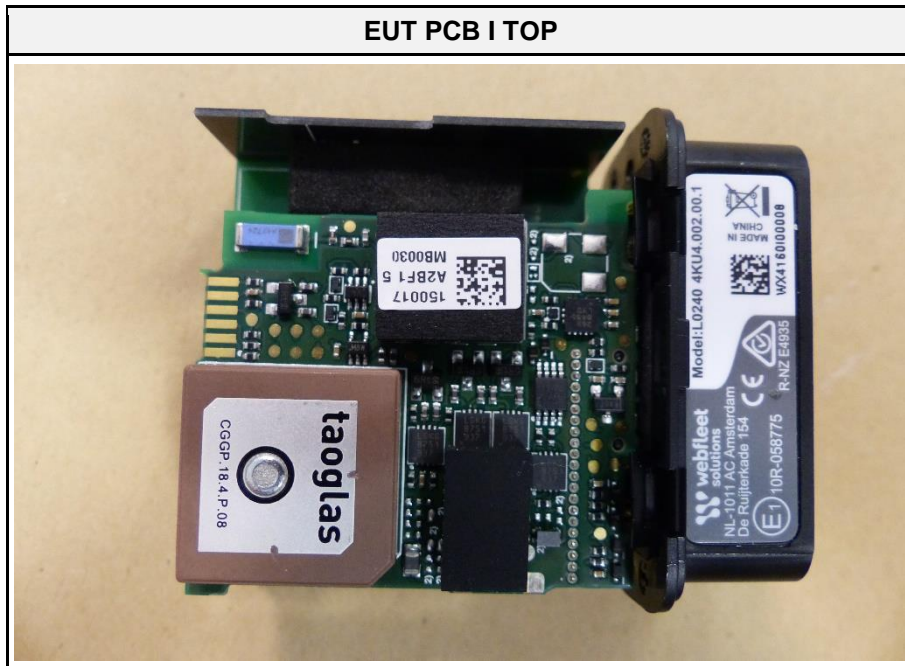
1 Equipment (Test Item) Under Test

Description	Telematic Device with GSM+LTE+GNSS+OBD connector The Model L0240 is a GPRS/LTE based telematics device with internal GSM/LTE and GNSS antennas and an integrated acceleration sensor to detect driving events. The device is designed and dedicated to be plugged onto the OBD connector of the vehicle.	
Model	L0240	
Additional Model(s)	None	
Brand Name(s)	LINK 240	
Serial Number(s)	WX4160I00008	
Hardware Version(s)	48/2019	
Software Version(s)	2.1	
EUT Dimensions [cm]	5.7 x 4.8 x 2.7	
FCC-ID	2AGPAL0240	
IC	-/-	
Class	Class B	
Equipment type	Table top	
Highest internal frequency [MHz]	2480	
Radio Module I	Type	Mobil Communication Module
	Model	EXS82
	Manufacturer	Gemalto (Thales)
	FCC-ID	QIPEXS82-W
	IC	7830A-EXS82W
Radio Module II	Type	Bluetooth Module
	Model	Unspecified
	Manufacturer	Unspecified
	FCC-ID	Unspecified
Radio Module III	Type	GNSS Module
	Model	Unspecified
	Manufacturer	Unspecified
	FCC-ID	Unspecified
Supply Voltage	V _{NOM}	12/24 VDC
AC/DC-Adaptor	None	
Manufacturer	Webfleet Solutions B.V. De Ruijterkade 154 1011 AC Amsterdam Netherlands	

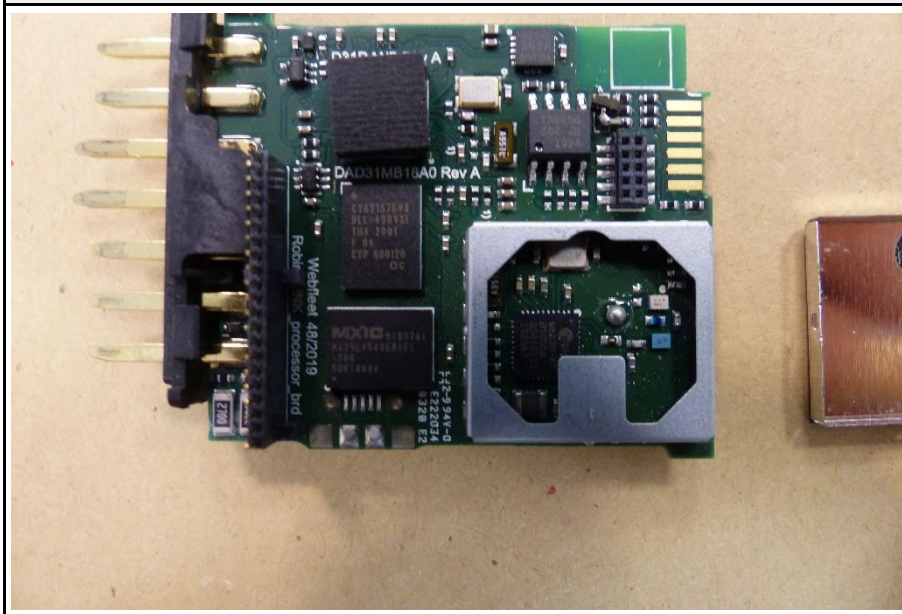
1.1 Equipment Ports

Name	Type	Attributes	Comment
CAN bus	IO	Count: 1 Direction: IO Max. cable length [m]: <3 Shielded: No Service only: No	-
ISO 9141 (K-Line)	IO	Count: 1 Direction: In Max. cable length [m]: <3 Shielded: No Service only: No	Without communication
CAN bus single wire	IO	Count: 1 Direction: IO Max. cable length [m]: <3 Shielded: No Service only: No	-
Power	DC	Count: 1 Direction: In Max. cable length [m]: 0.4 Shielded: No Service only: No	extension wire
Description:			
AC	AC mains power input/output port		
DC	DC power input/output port		
BAT	DC power input port connected to external battery		
IO	Input/Output port		
TP	Telecommunication port		
NE	Non-electrical port		

1.2 Equipment Photos - Internal



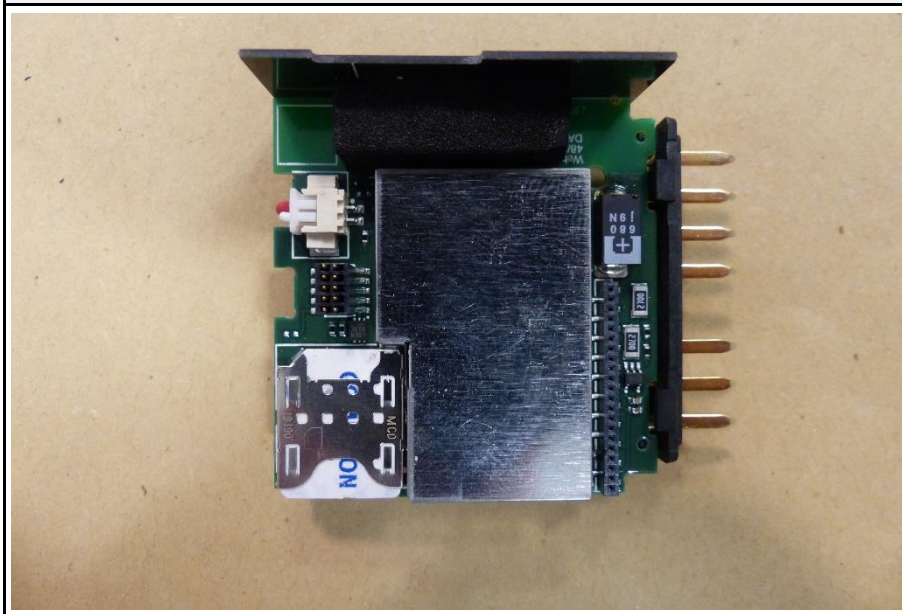
EUT PCB I BOTTOM without cover



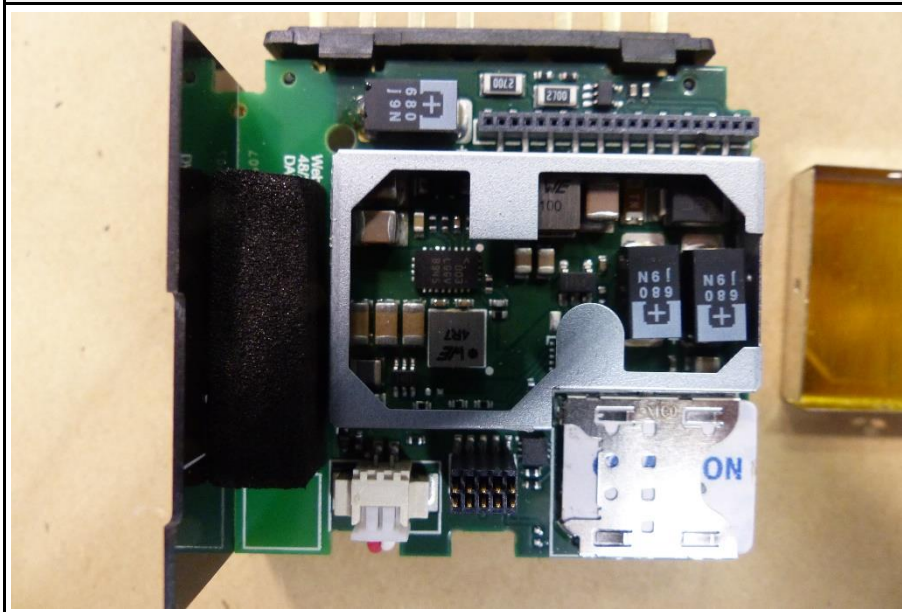
EUT PCB II TOP



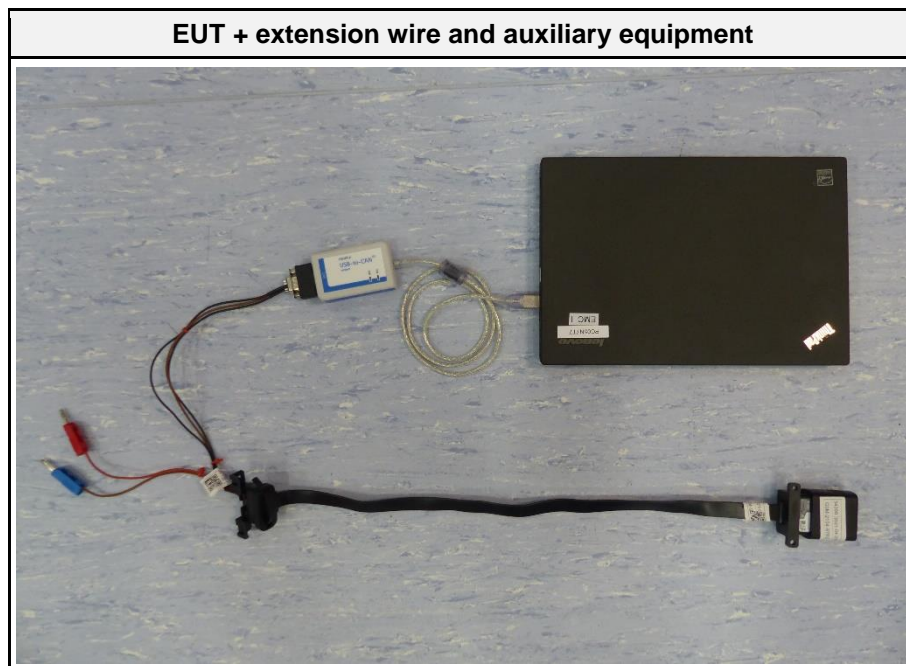
EUT PCB II BOTTOM



EUT PCB II BOTTOM without cover



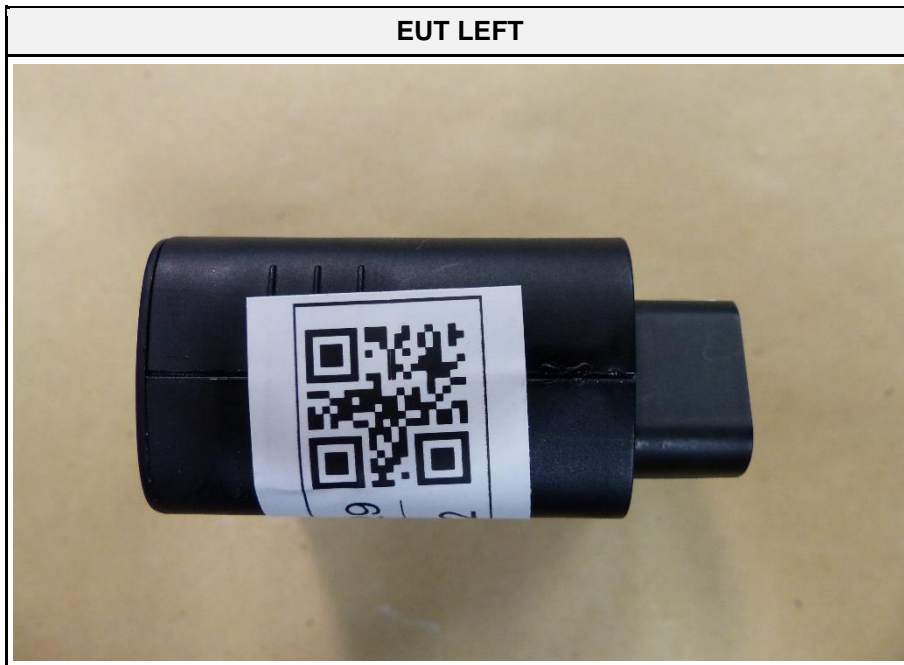
1.3 Equipment Photos - External



EUT TOP label



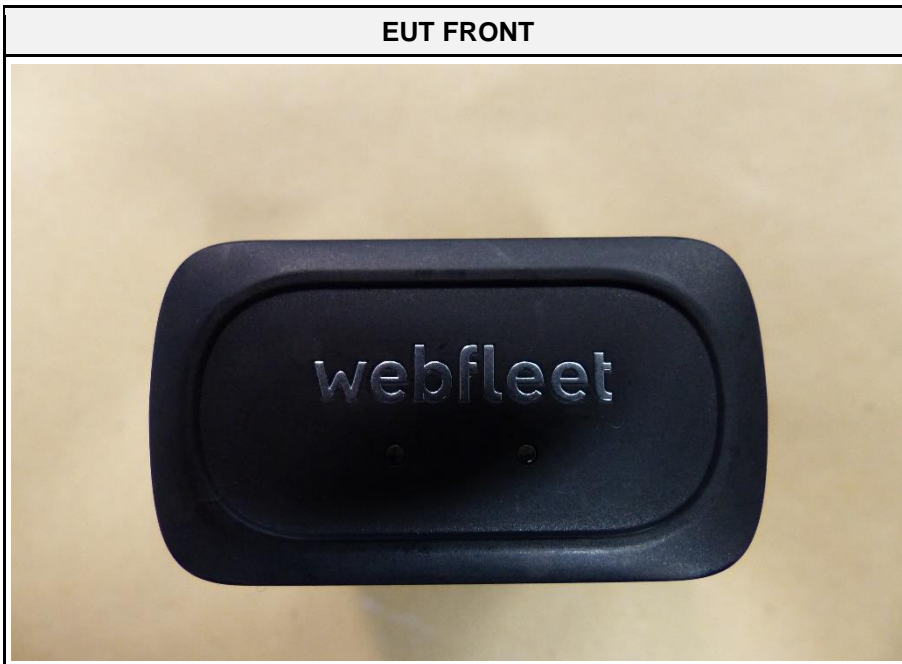
EUT LEFT

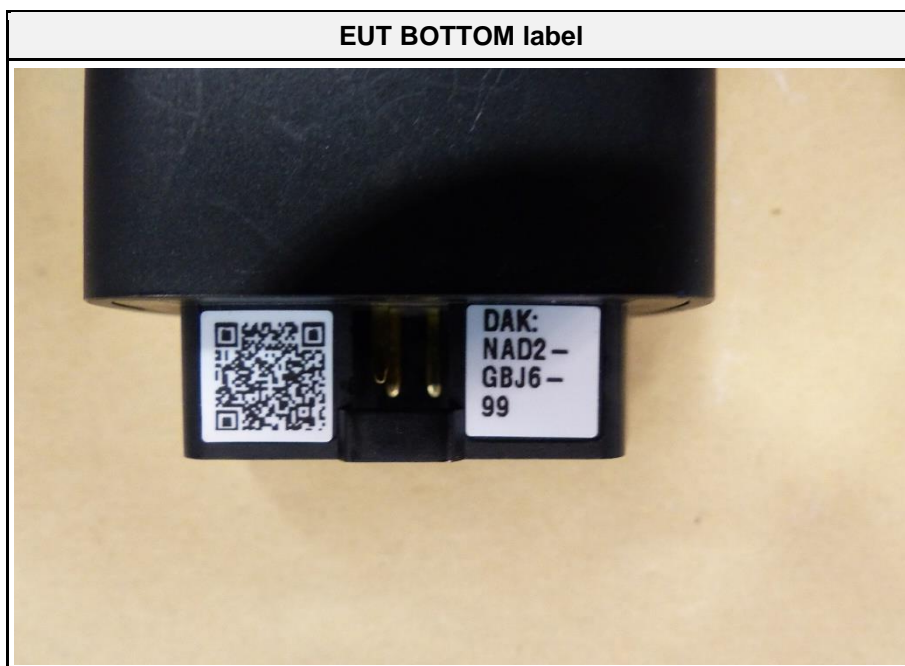
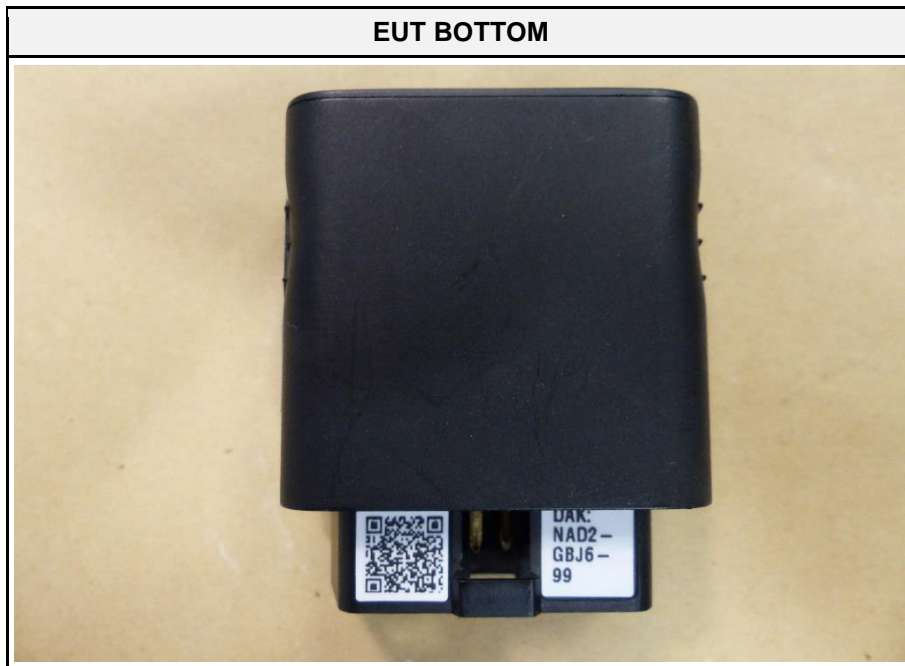


EUT RIGHT



EUT FRONT





EUT BACK



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	Lenovo	ThinkPad X250	-
AE	CAN-USB adaptor	IXXAT	IXXAT USB-to-CAN Converter	Customer Support Equipment
AE	OBD extension cable	Pan-I	-	Customer Support Equipment
AE	Software application	Webfleet Solution	-	Customer Support Equipment
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
MON	Monitoring Equipment			
CBL	Connecting Cable			
Comment:				

1.5 Operational Modes

Mode #	Description
1	GSM 850 transmission + BT(BT DUT mode) + GNSS receive local position
2	GSM1900 transmission + BT(BT DUT mode) + GNSS receive local position
3	LTE FDD 12 transmission +BT(BT DUT mode) + GNSS receive local position
4	LTE FDD 13 transmission +BT(BT DUT mode) + GNSS receive local position
Comment: EUT operates in mobile communication band: GSM850; GSM1900; LTE FDD 2; 4; 12; 13. After evaluation of worst case, measurements were performed in mobile communication band GSM 850, GSM 1900, LTE FDD 12 and FDD 13	

1.6 EUT Configuration

Configuration #	Description
-	EUT powered up via from laboratory power supply. CAN connection via CAN-USB adaptor, "Type: CAN; Interface: HW321925; Bitrate: 500000". Laptop controlled EUT via software application: "Device Communication Tool." Laptop and CAN-USB adaptor are positioned outside the measurement chamber. Mobile communication tester provides the mobile communication connection. Local external GNSS antenna provide the GNSS position for the EUT Wireless connectivity tester provides the Bluetooth connection. EUT operates in Bluetooth test mode (BT DUT). TX-Test, basic rate, Channel 39, DH5, PRSB9, max power
1	12V DC GSM 850: GPRS 2slots, Gamm 3, Ch.: 192
2	24V DC GSM 1900: GPRS 2slots, Gamm 3, Ch.: 661
3	12V DC LTE FDD 12: TPC „Max Power“, Ch.: 23095
4	24V DC LTE FDD 13: TPC „Max Power“; Ch.: 23230
Comment:	

1.7 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 analyser in dBµV. Any external preamplifiers used are taken into account through internal analyser 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 analyser. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

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

Net:

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

Limit:

This is the FCC Class B radiated emission limit (in units of 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:

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

Margin:

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

Example only:

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 15B, ISED ICES-003 Issue 7				
Reference	Requirement	Reference Method	Result	Remarks
Emission				
FCC 15.109 ICES-003, 3.2.2	Radiated emissions	ANSI C63.4:2014 +A1:2017	PASS	-
FCC 15.107 ICES-003, 3.2.1	AC power line conducted emissions	ANSI C63.4:2014 +A1:2017	N/R	-
Comment:				

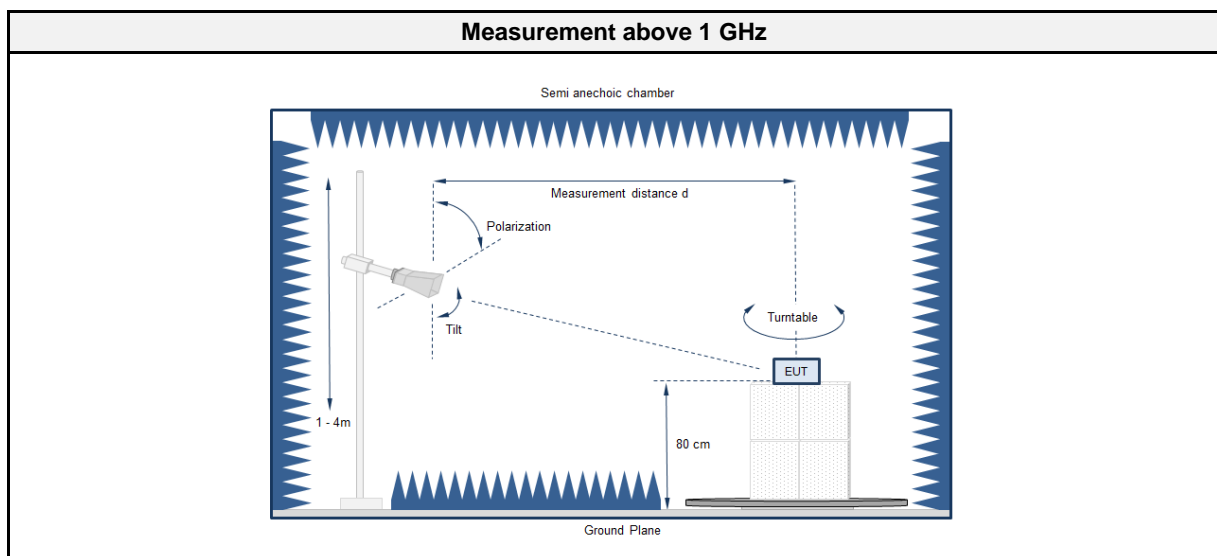
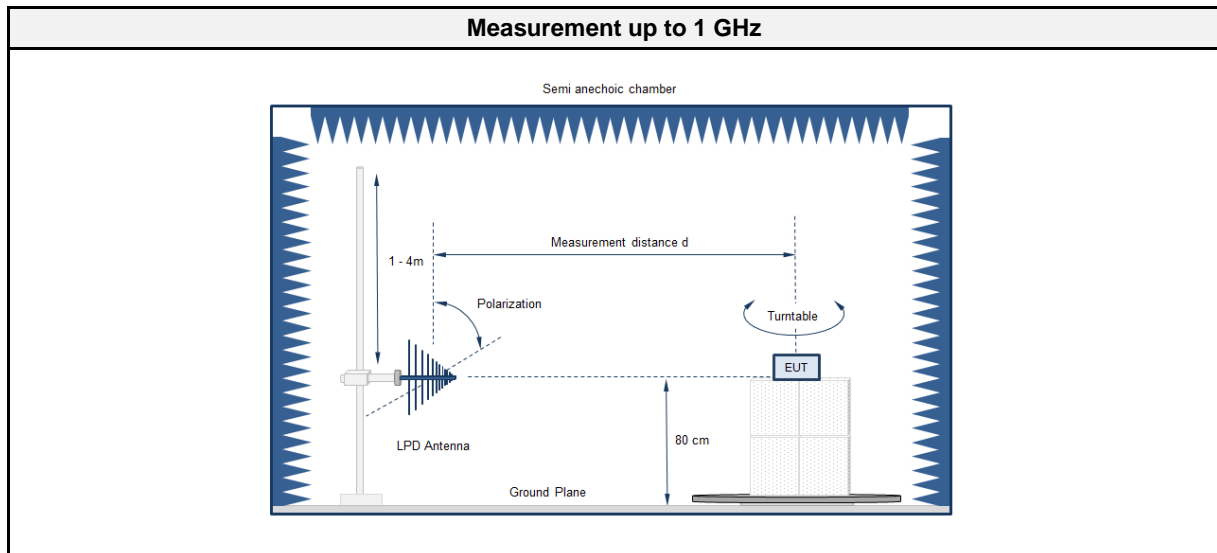
Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

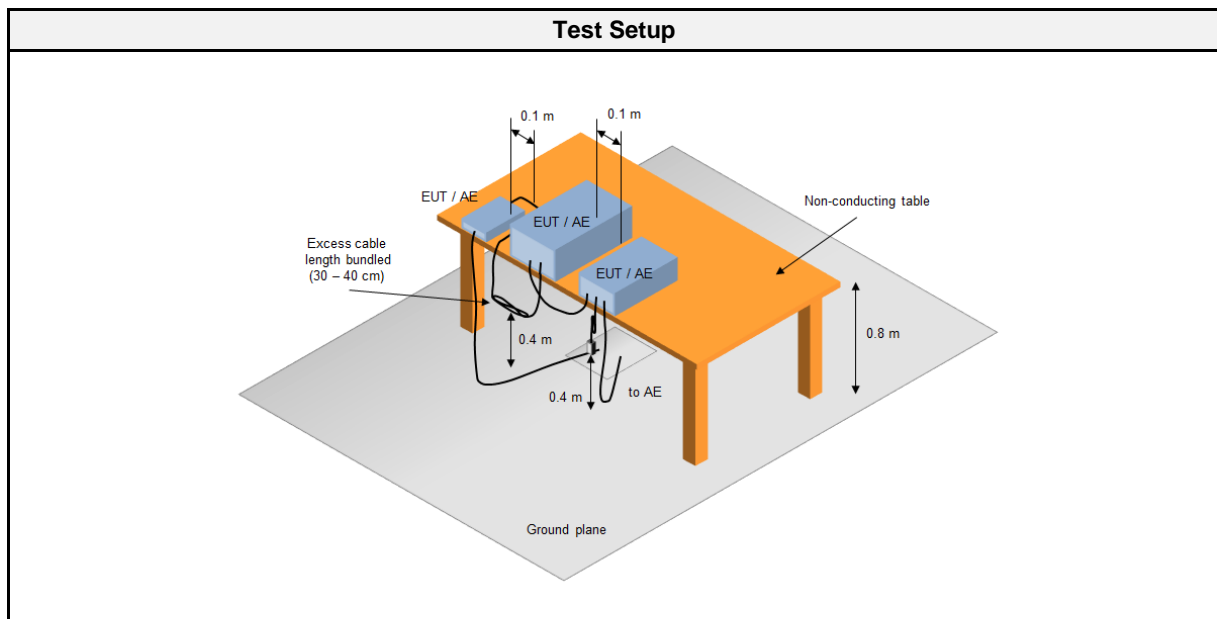
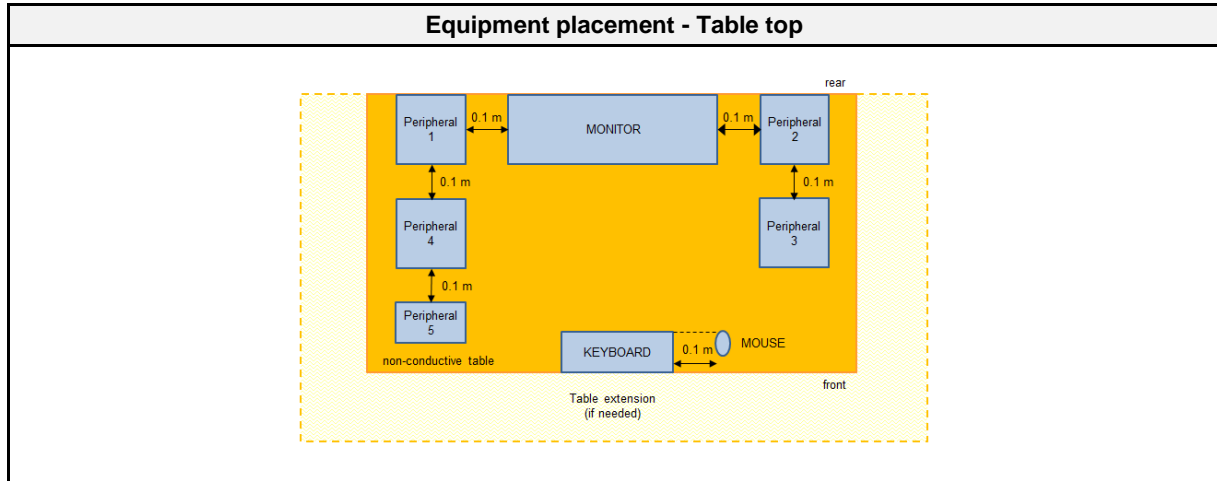
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

Test Information	
Reference	FCC 15.109, ICES-003, 3.2.2
Reference method	ANSI C63.4:2014+A1:2017 Section 8
Equipment class	Class B
Equipment type	Table top
Highest internal frequency [MHz]	2480
Measurement range	30 MHz to 12350 MHz
Temperature [°C]	23 ±3
Humidity [%]	57 ±3
Operator	Matthias Handrik
Date	2021-07-22

2.1.2 Setup





2.1.3 Equipment

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

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber (NSA)	Frankonia	AC1	EF00062	2021-02	2024-02
Anechoic chamber (SVSWR)	Frankonia	AC 1	EF01011	2019-06	2022-06
Functional radio communication tester	Rohde & Schwarz GmbH & Co. KG	CMW290	EF01367	2021-07	2022-07
Wideband radio communication tester	Rohde & Schwarz GmbH & Co. KG - Vertrieb Berlin	CMW270	EF01169	2021-03	2022-03
Signalization Antenna	-	-	-	-	-
AC & DC Power Supply	Chroma ATE Inc.	61604	EF01380	2020-07	2021-07

True RMS Multimeter	Fluke	Fluke-117	EF00877	2020-08	2021-08
EMI Test Receiver	Rohde & Schwarz Vertriebs GmbH	ESR7	EF00943	2020-07	2021-07
Spectrum analyzer	Rohde & Schwarz GmbH & Co. KG	FSU43	EF01631	2020-07	2021-07
Notch filter	Wainwright Instruments GmbH	WRCT 24000/2497-80- 20SS	EF00098	fucntional test	fucntional test
Notch filter 800-960 MHz	Wainwright Instruments GmbH	WTRCT5-800- 960-0.3-2- 40SSK	EF01000	fucntional test	fucntional test
Network Analyzer	Rohde & Schwarz GmbH & Co. KG	ZVL6	EF01198	2020-07	2021-07
Biconical Antenna	R&S	HK 116	EF00030	2021-05	2024-05
LPD Antenna	R&S	HL 223	EF00187	2019-05	2022-05
Horn Antenna	Schwarzbeck	BBHA9120D	EF00018	2019-10	2022-10
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2021-03	2022-03

2.1.4 Procedure

Exploratory measurement	
1.	The EUT was placed on a non-conductive table at a height of 0.8m.
2.	The EUT and support equipment, if needed, were set up to simulate typical usage.
3.	Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage.
4.	The antenna was placed at a distance of 3 or 10 m.
5.	The received signal was monitored at the measurement receiver.
6.	This procedure has to be performed in both antenna polarizations, horizontal and vertical.
7.	The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 2.1.2

Final measurement	
1.	The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver.
2.	A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast.
3.	The EUT and cable arrangement were based on the exploratory measurement results.
4.	Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.
5.	The test data of the worst-case conditions were recorded and shown on the next pages.

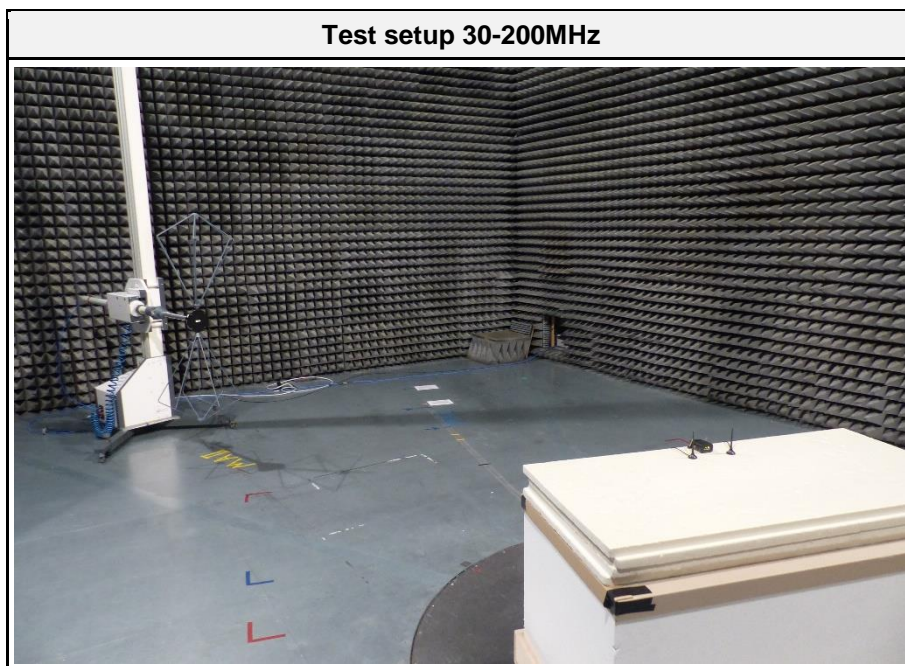
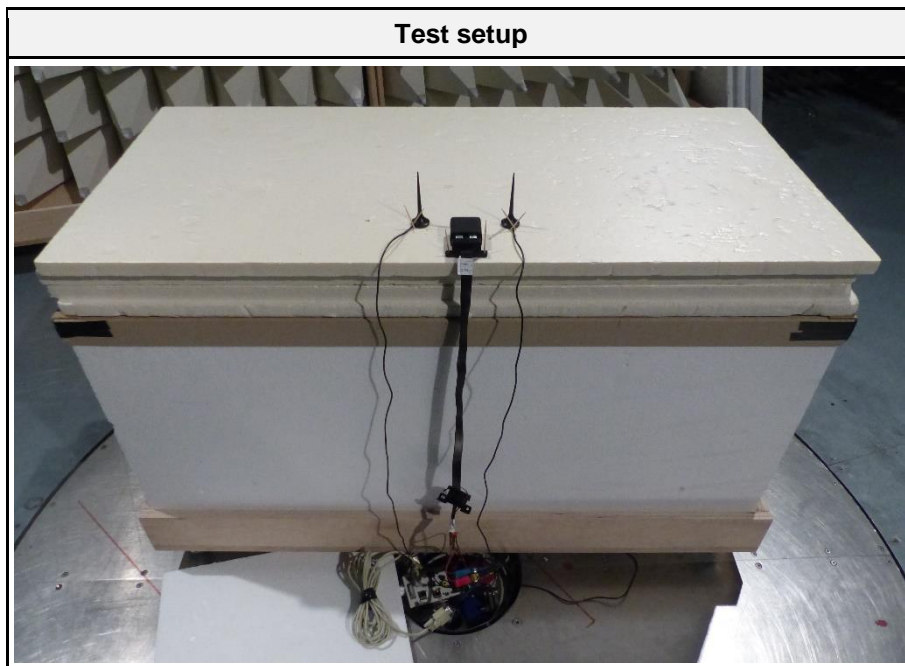
2.1.5 Limits

Class B @ 3 m		
Frequency [MHz]	Detector	Limit [dBµV/m]
30 - 88	Quasi-peak	40
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46
960 - 1000	Quasi-peak	54
> 1000	Peak Average	74 54

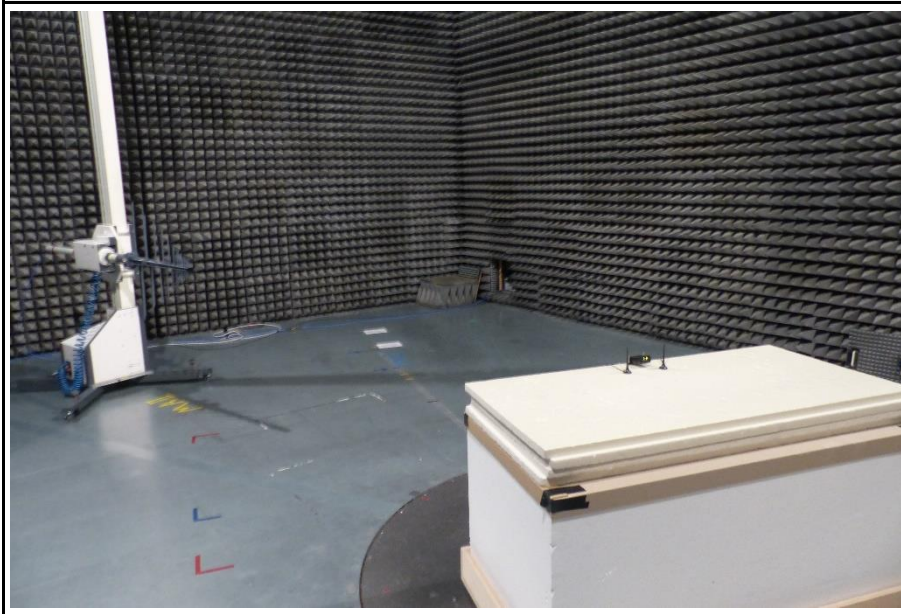
2.1.6 Results

Test Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	-
2	2	PASS	-
3	3	PASS	-
4	4	PASS	-

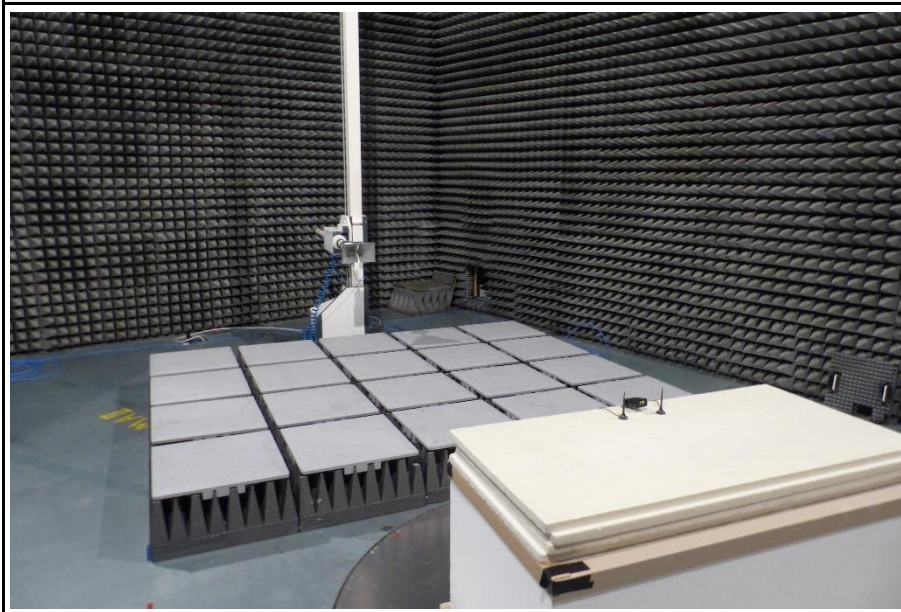
2.1.7 Setup Photos



Test setup 200-1000MHz



Test setup 1-13GHz



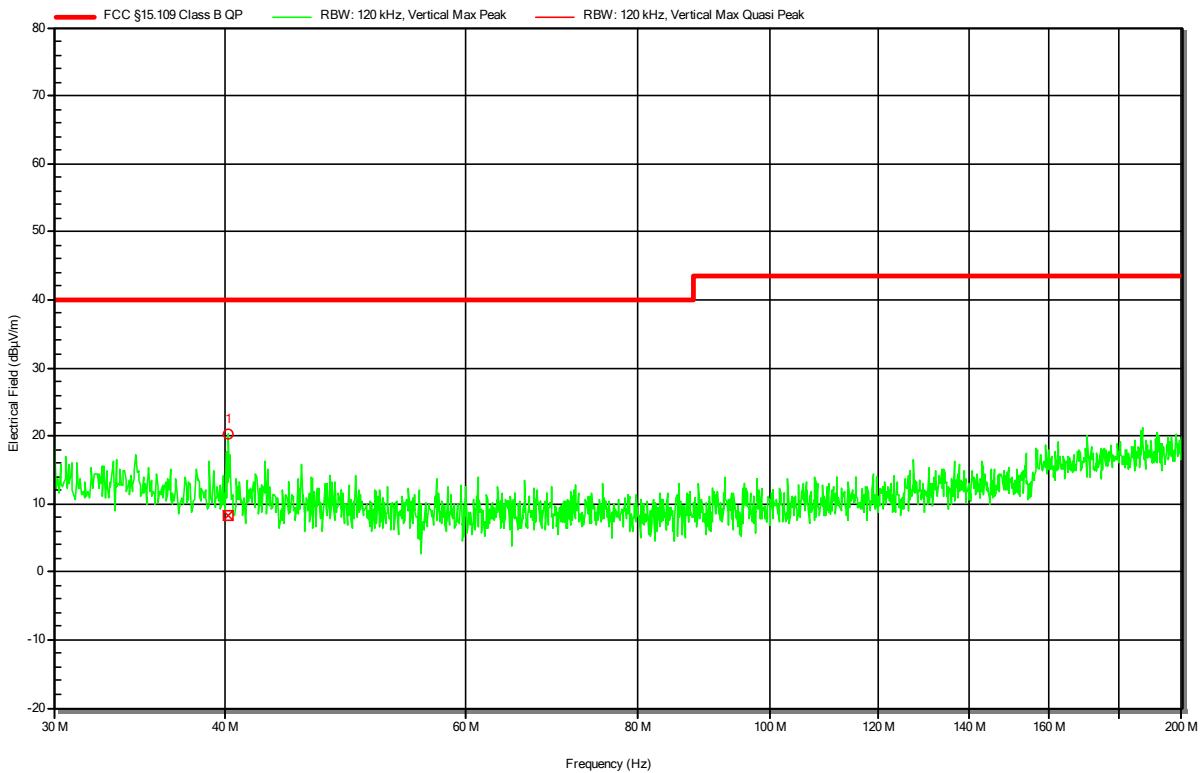
2.1.8 Records

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 1
 Note 1:

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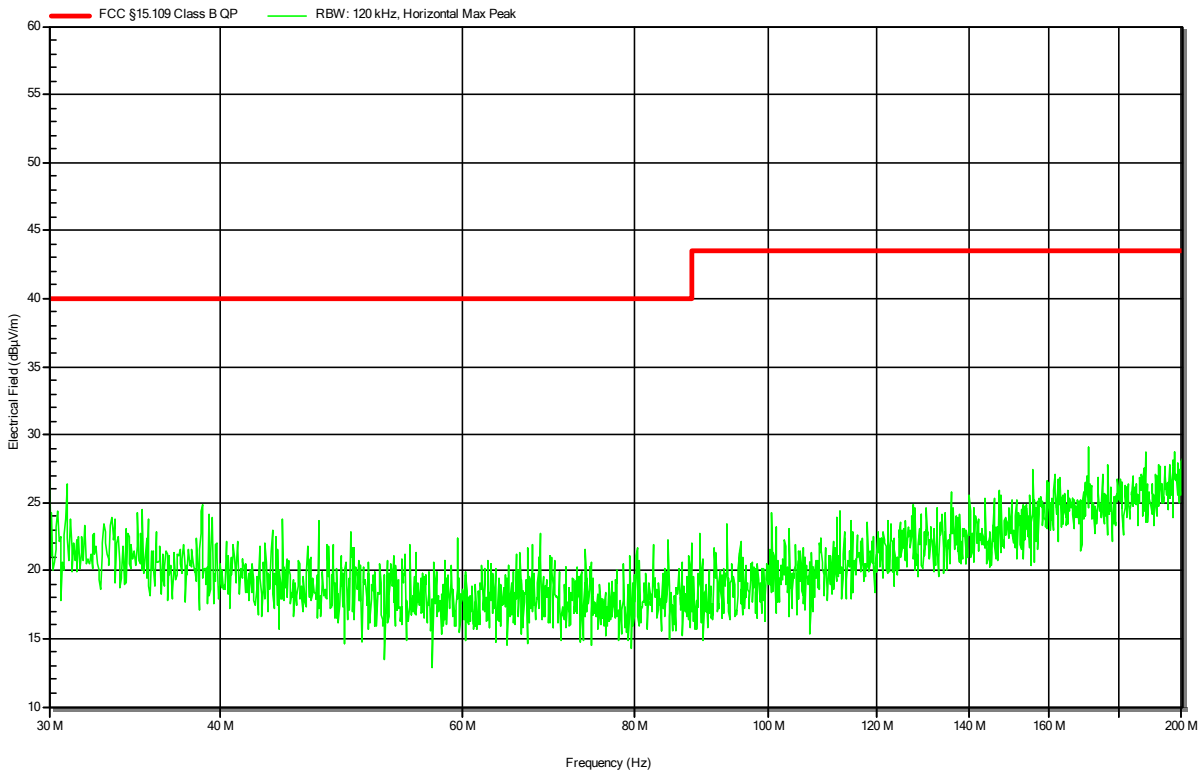
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	40,226 MHz	8,4 dBµV/m	40 dBµV/m	-31,6 dB	Pass	180 degrees	1 m

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 1
 Note 1:

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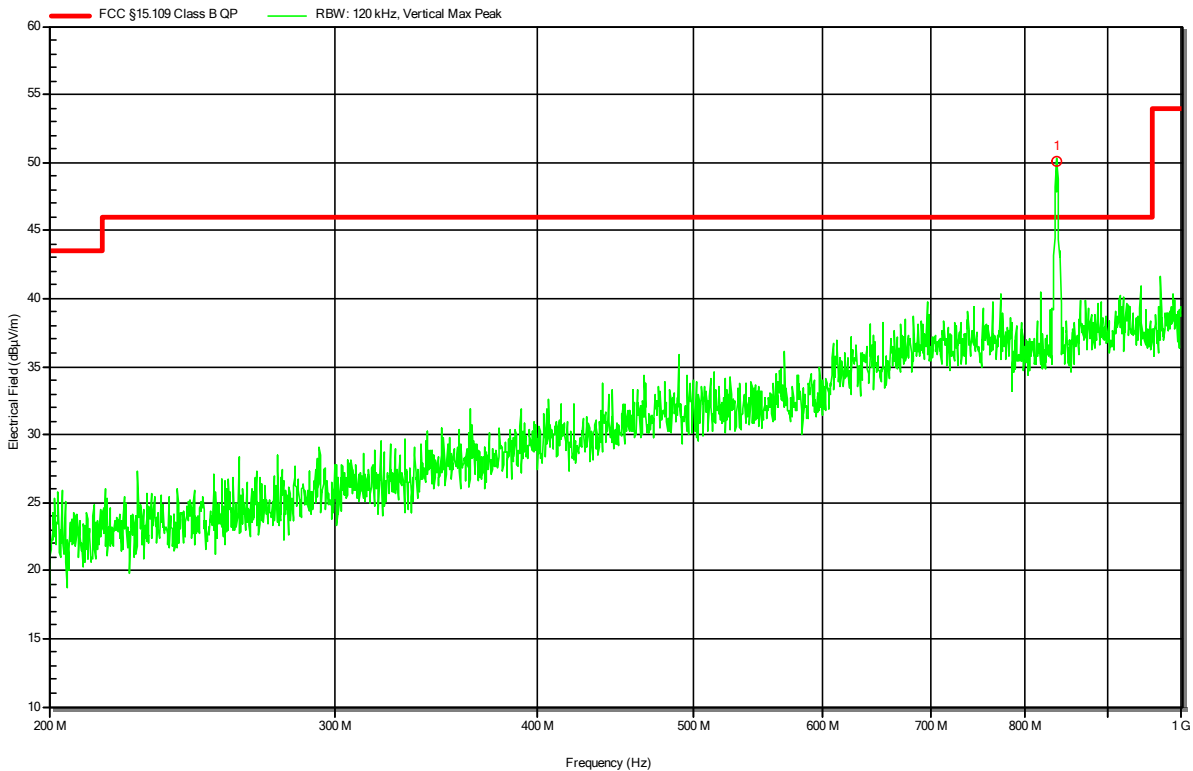


Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 1
 Note 1: with notchfilter for GSM 850

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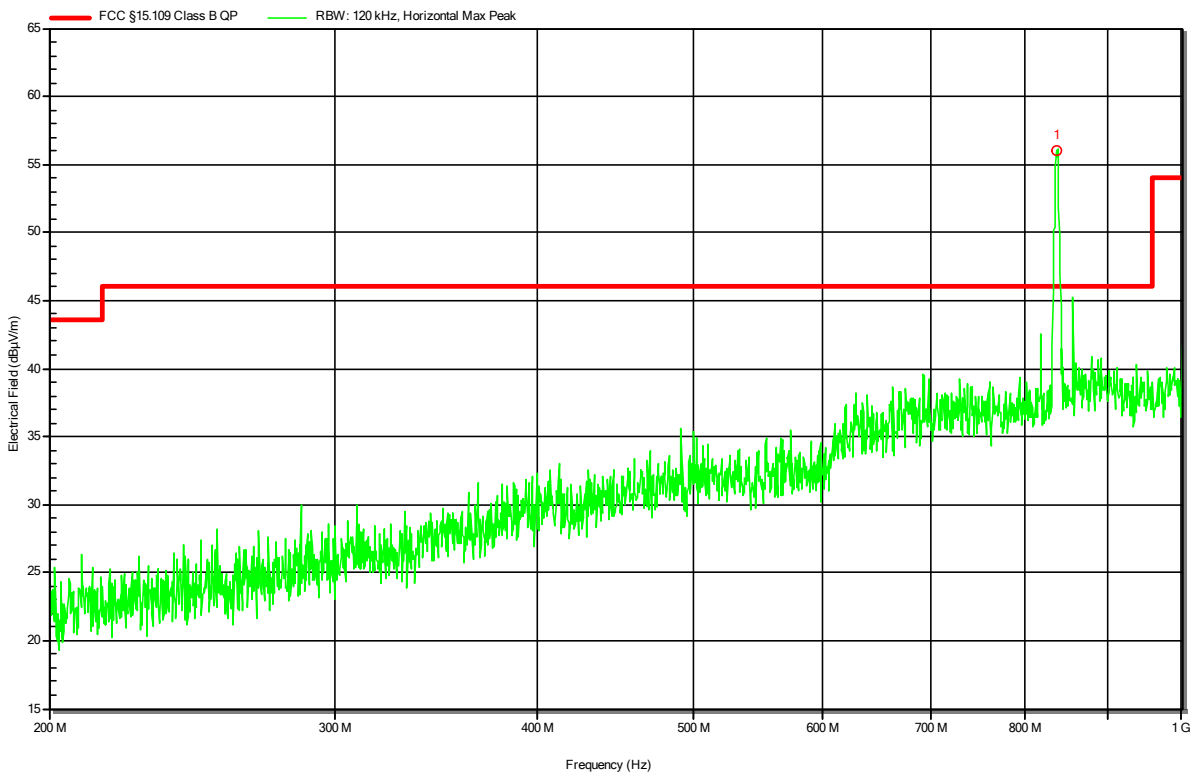
Peak Number	Frequency	Angle	Height
1	837,786 MHz	GSM 850 carrier	

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DCDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 1
 Note 1: with notchfilter for GSM 850

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RadiMation



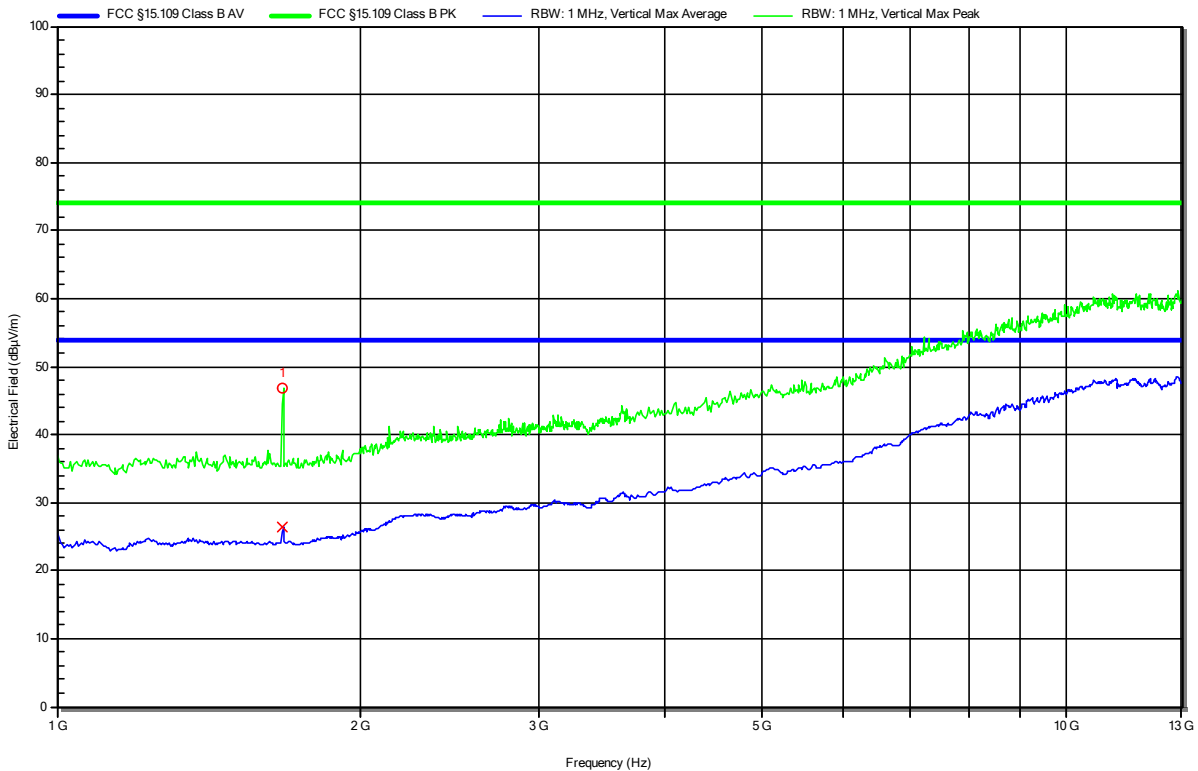
Peak Number	Frequency	Angle	Height
1	837,766 MHz	0 degrees	1 m

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement Distance: 3
 Operational Mode & EUT Configuration: 1
 Note 1: with notchfilter for 2.4GHz for Bluetooth

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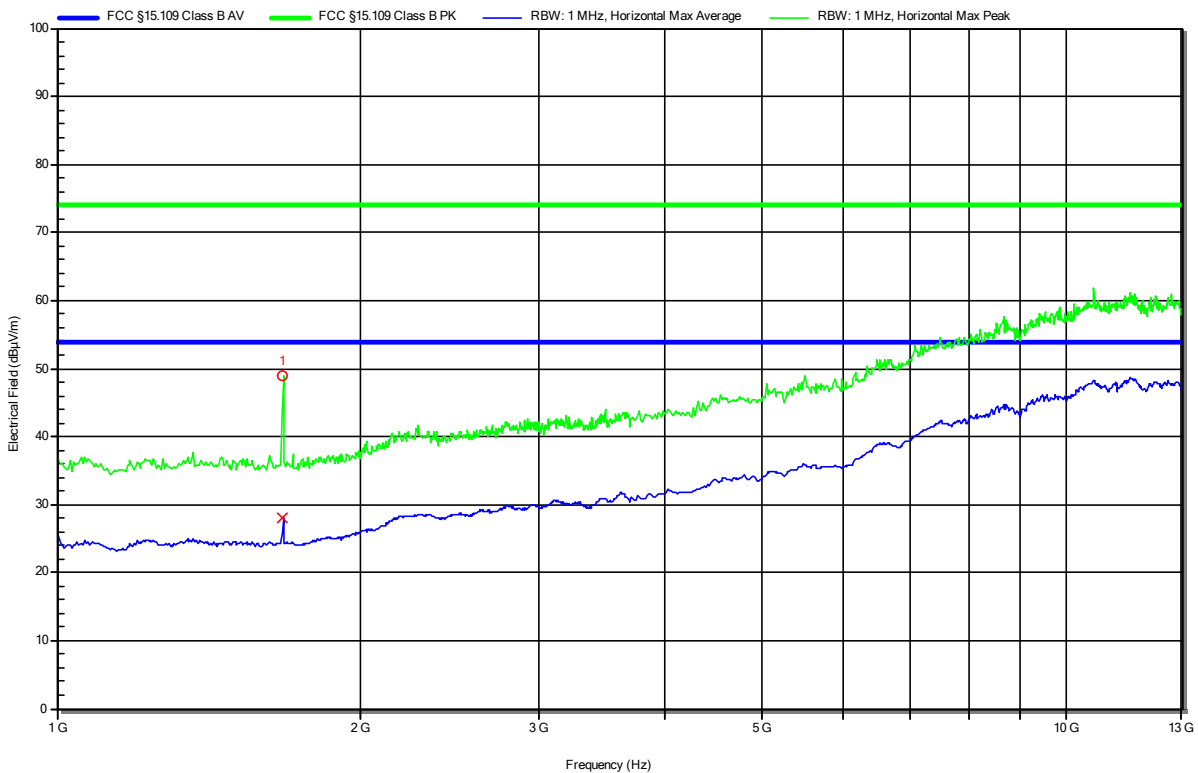
Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	1,675 GHz	2 nd Harmonic	GSM 850				

Radiated emissions according to FCC part 15B

Project Number: G0M-2104-9762
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 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0240
 Test Sample ID: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 1
 Note 1: with notchfilter for 2.4GHz for Bluetooth

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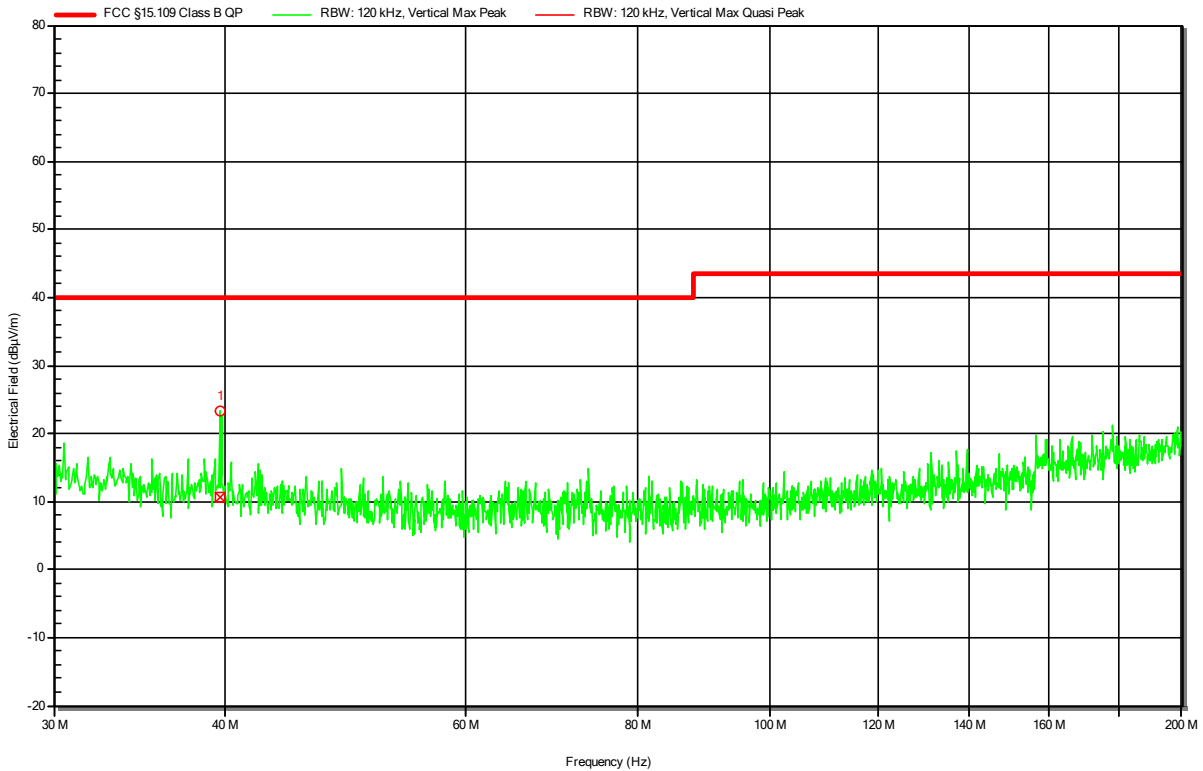
Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	1,675 GHz	2 nd Harmonic	GSM 850				

Radiated emissions according to FCC part 15B

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: -
 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 2
 Note 1:

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RadiMation



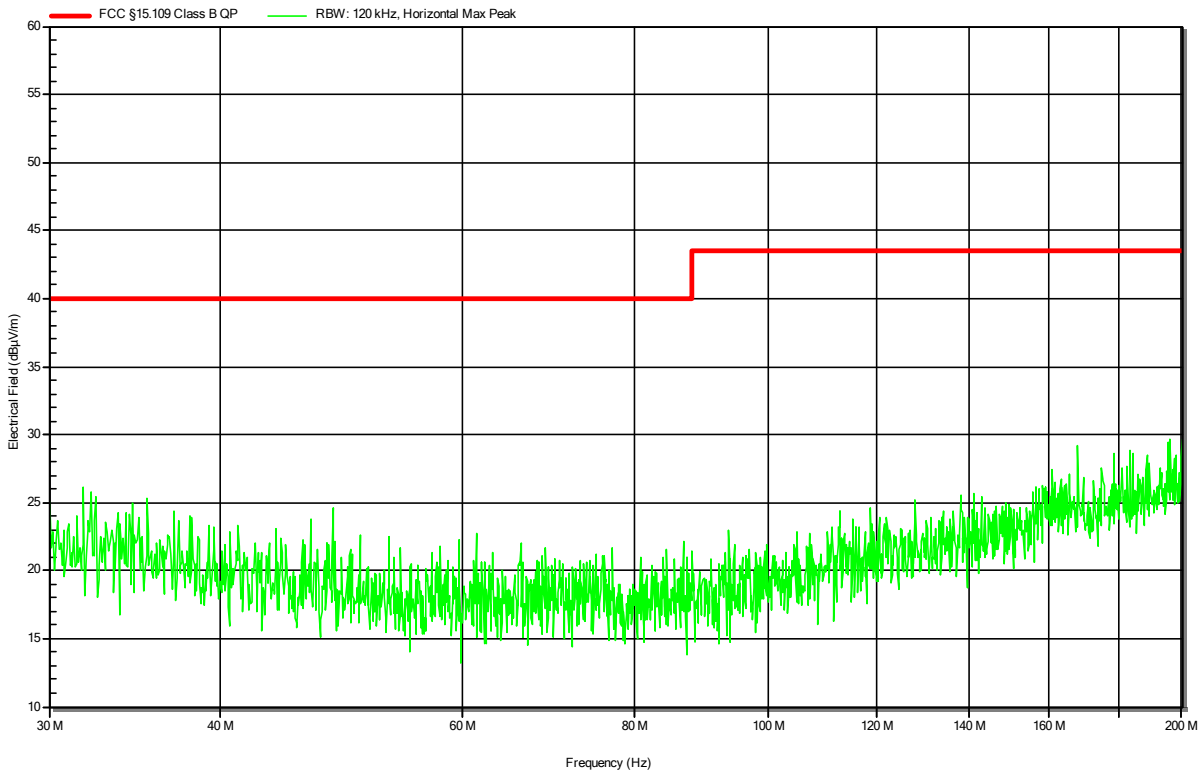
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	39,656 MHz	10,63 dBµV/m	40 dBµV/m	-29,37 dB	Pass	0 degrees	1 m

Radiated emissions according to FCC part 15B

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 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 2
 Note 1:

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RadiMation

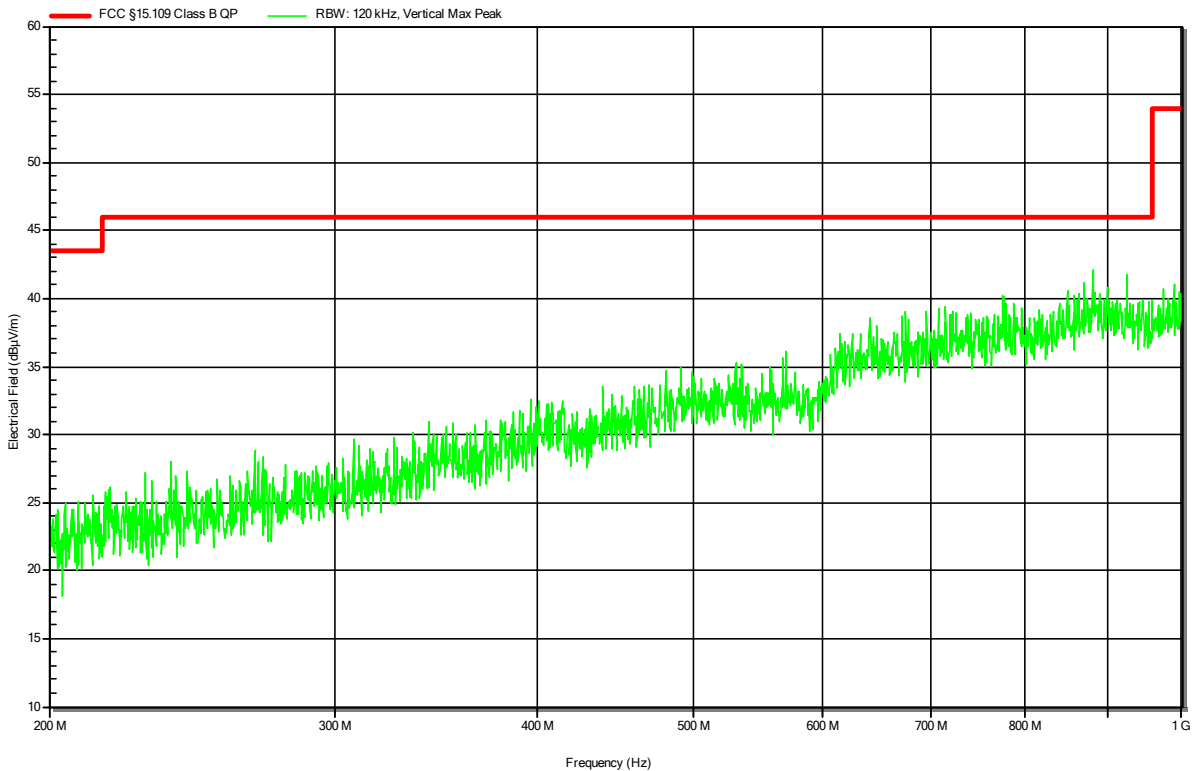


Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 2
 Note 1:

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RadiMation

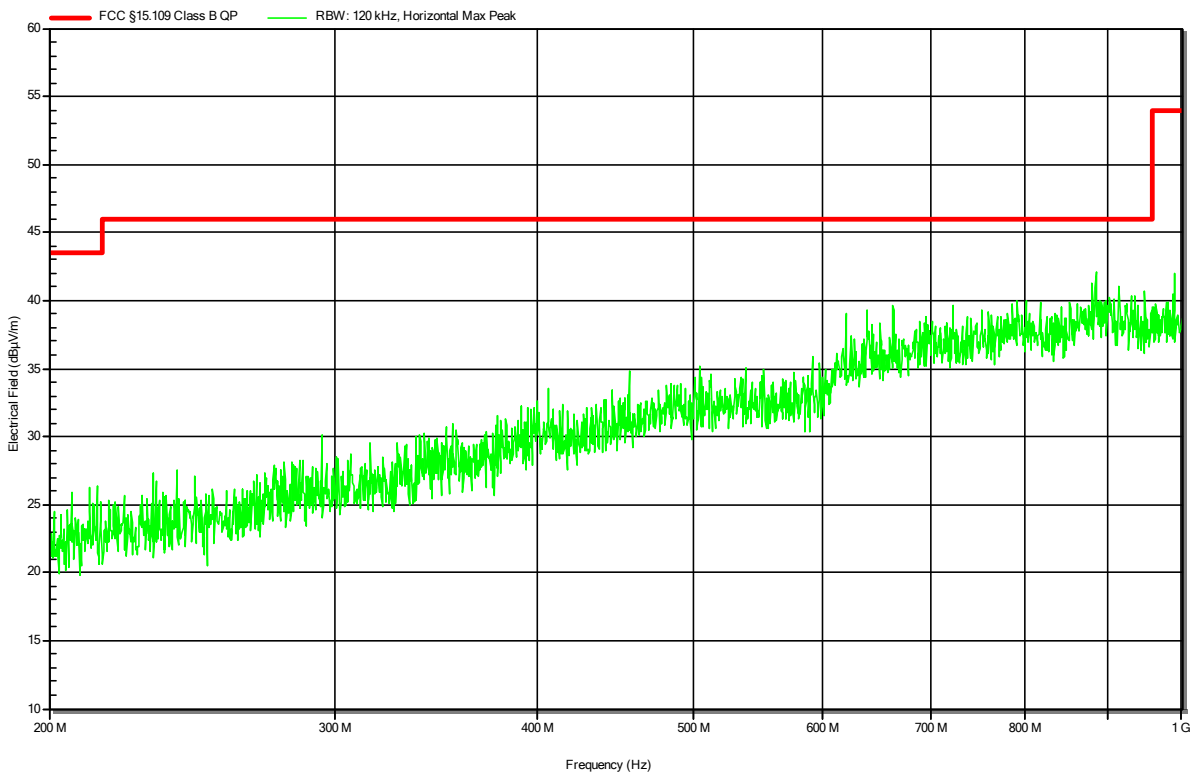


Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24 DC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement Distance: 3
 Operational Mode & EUT Configuration: 2
 Note 1:

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RadiMation

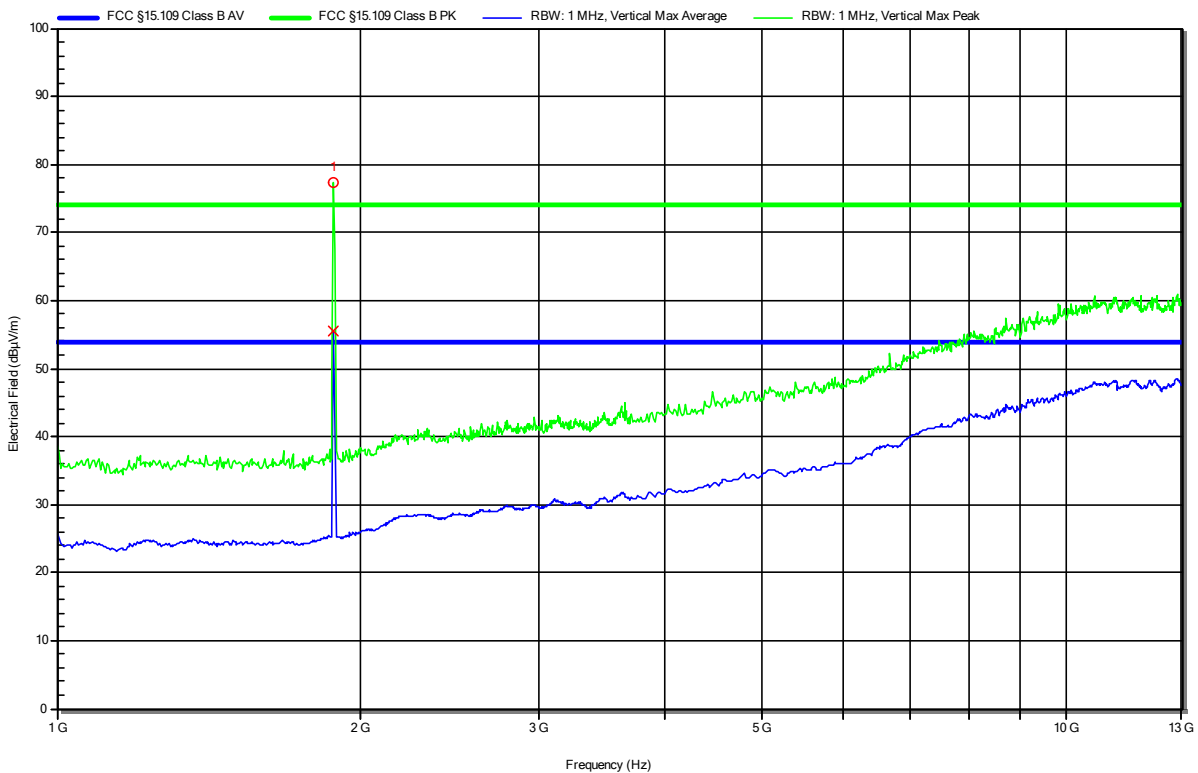


Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 2
 Note 1: With 2.4GHz notchfilter for Bluetooth

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RadiMation



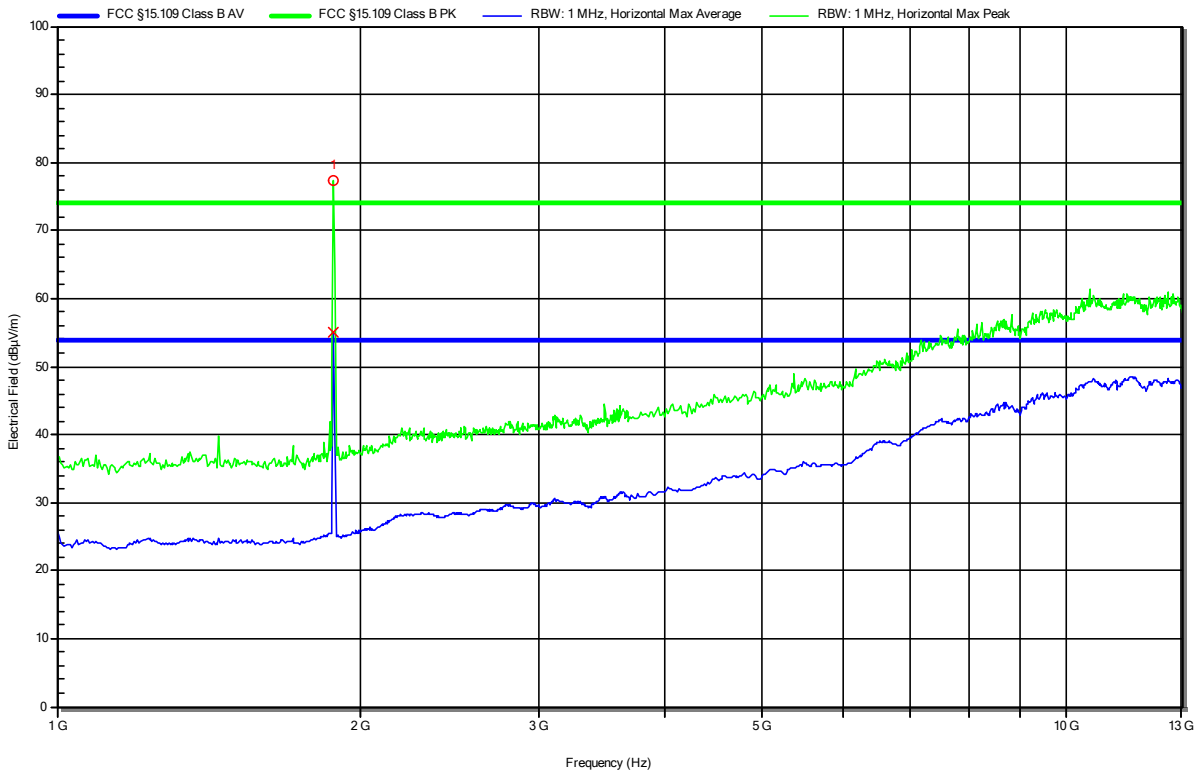
Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	1,878 GHz	GSM 1900 carrier					

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 2
 Note 1: With 2.4GHz notchfilter for Bluetooth

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RadiMation



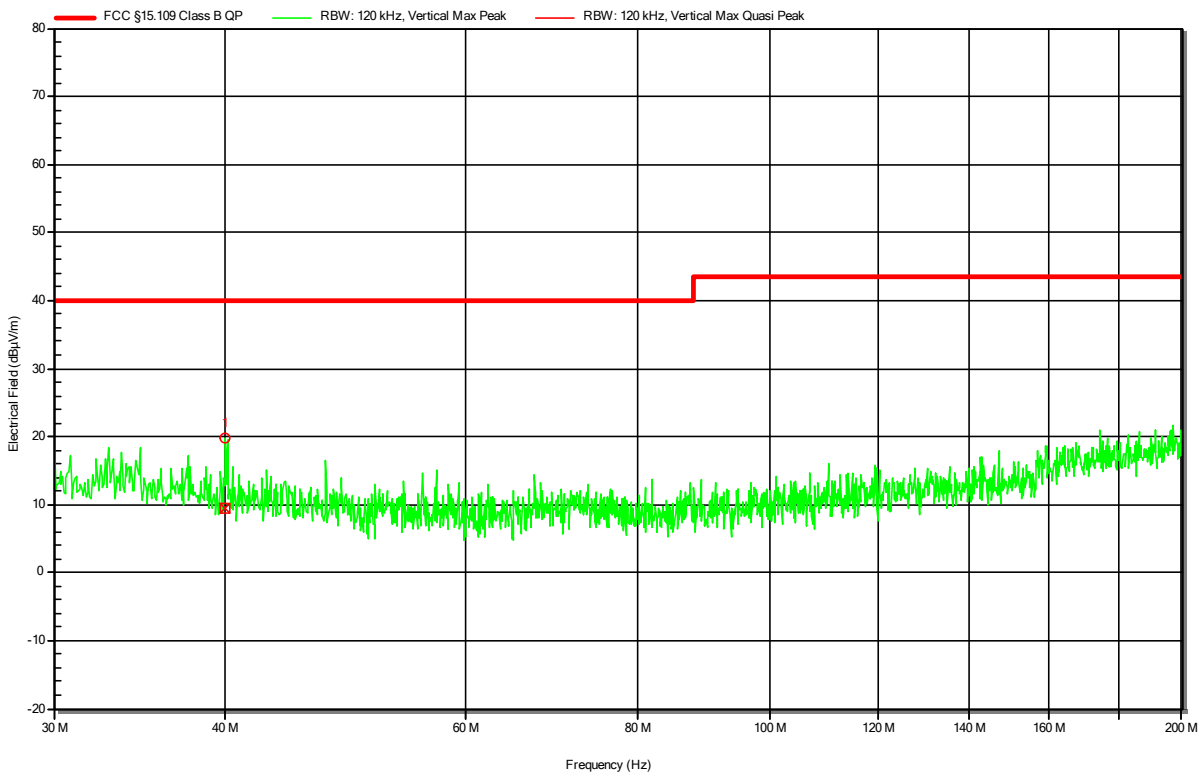
Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	1,878 GHz	GSM 1900 carrier					

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 3
 Note 1:

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RadiMation



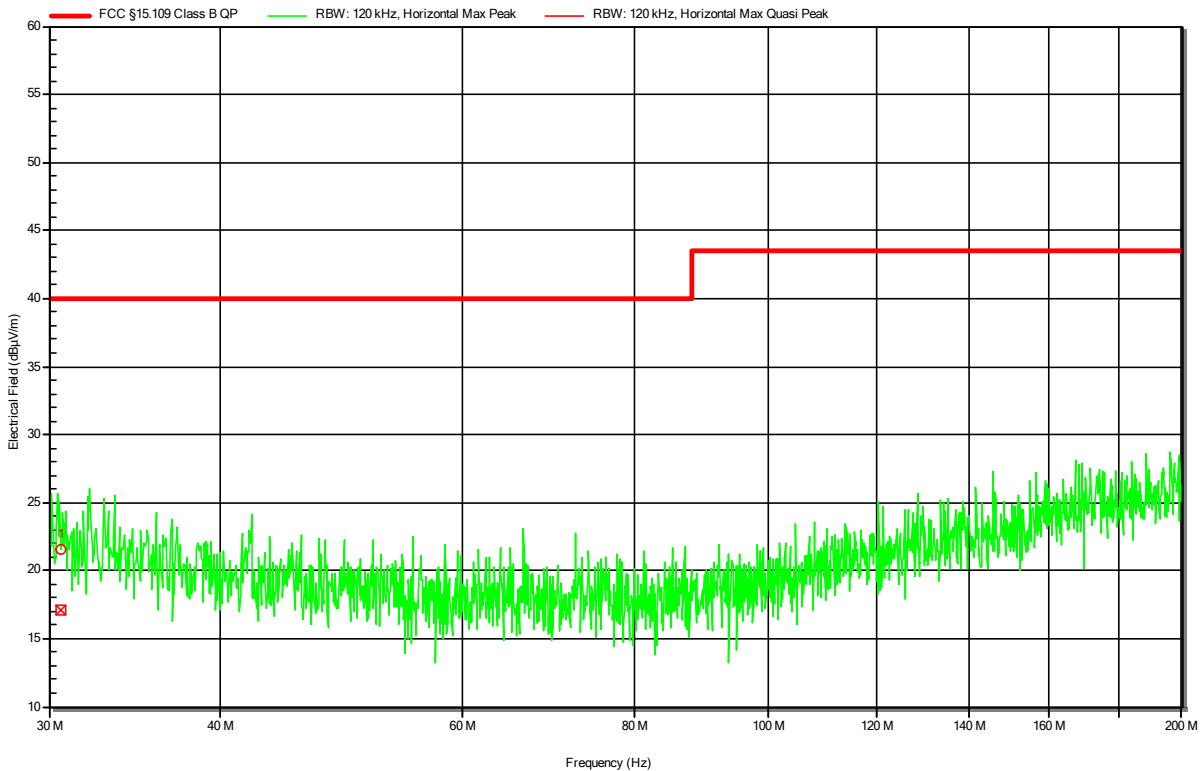
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	40,034 MHz	9,56 dBµV/m	40 dBµV/m	-30,44 dB	Pass	180 degrees	1 m

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 3
 Note 1:

Index 3

RadiMation



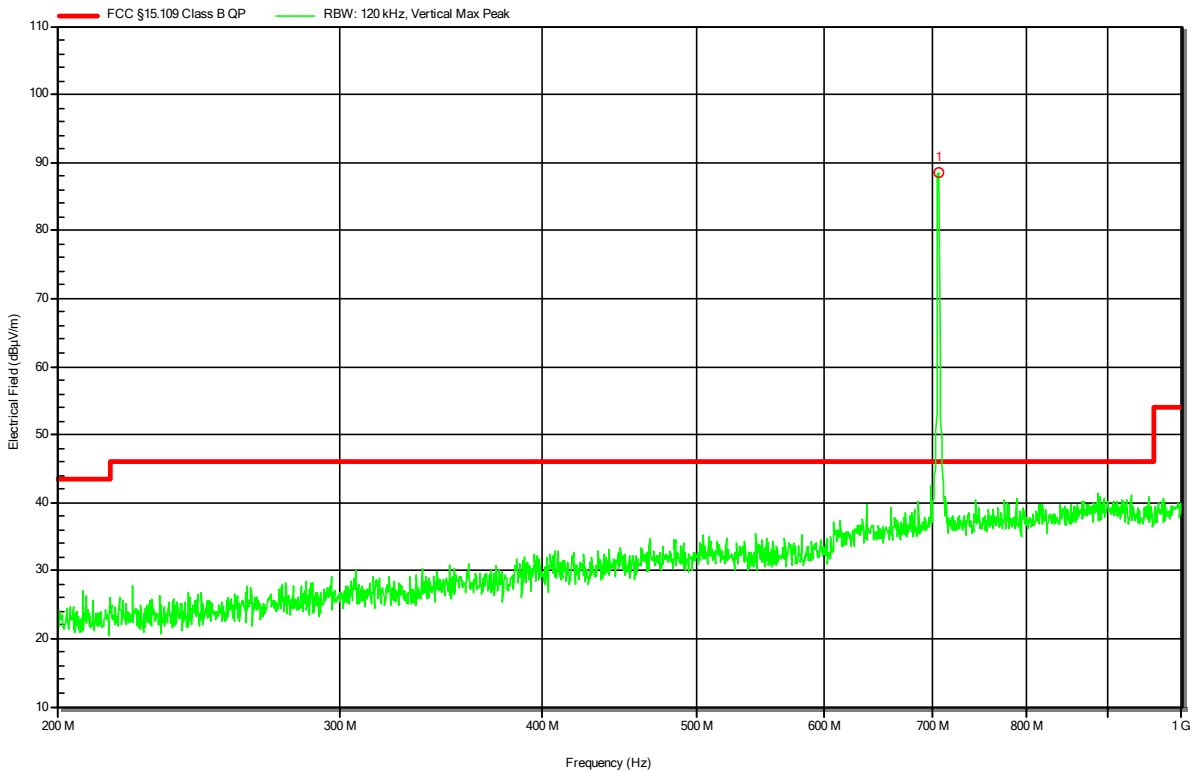
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	30,6 MHz	17,13 dBµV/m	40 dBµV/m	-22,87 dB	Pass	0 degrees	1 m

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 3
 Note 1:

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RadiMation



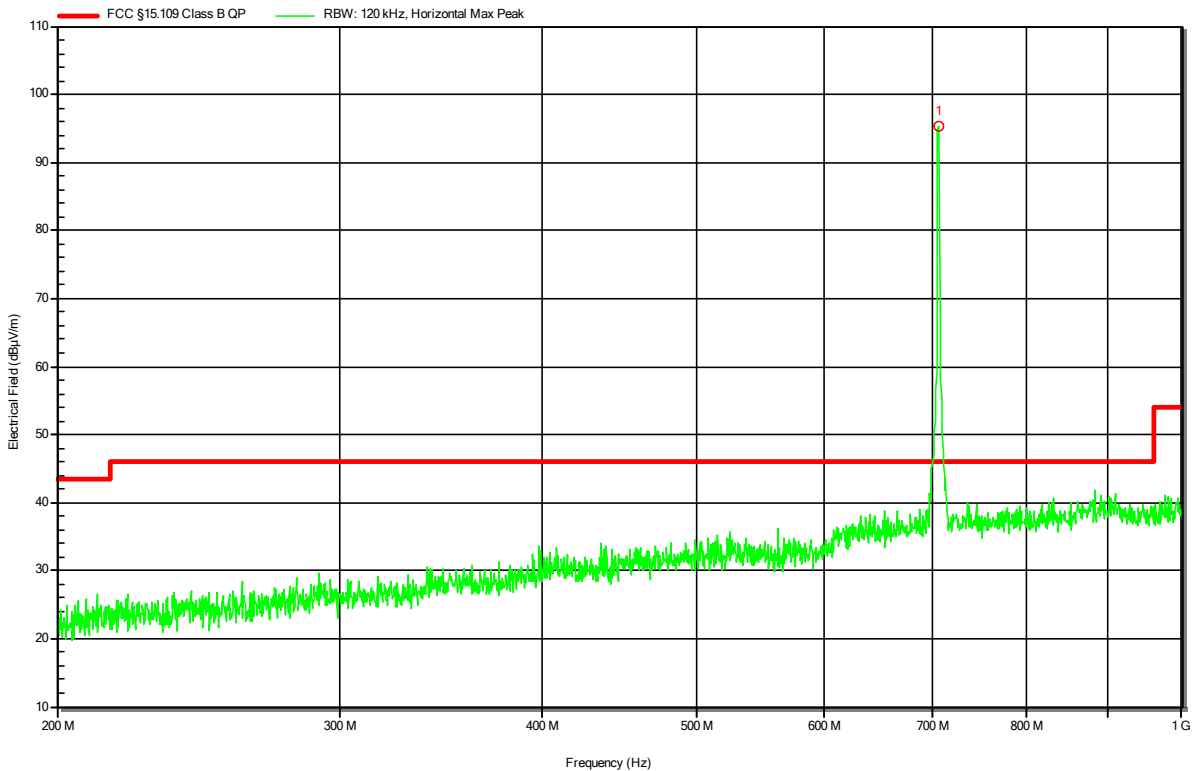
Peak Number	Frequency	Angle	Height
1	LTE FDD 12 carrier		

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 3
 Note 1:

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RadiMation



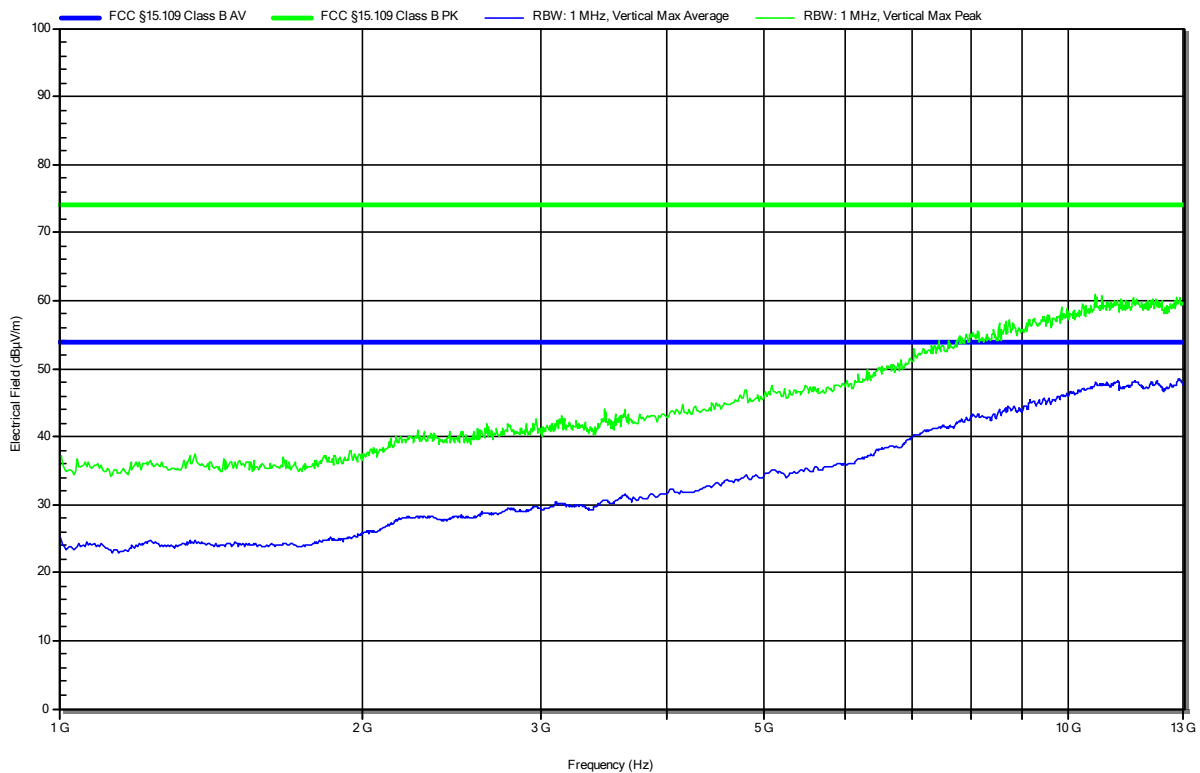
Peak Number	Frequency	Angle	Height
1	LTE FDD 12 carrier		

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 3
 Note 1:

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RadiMation

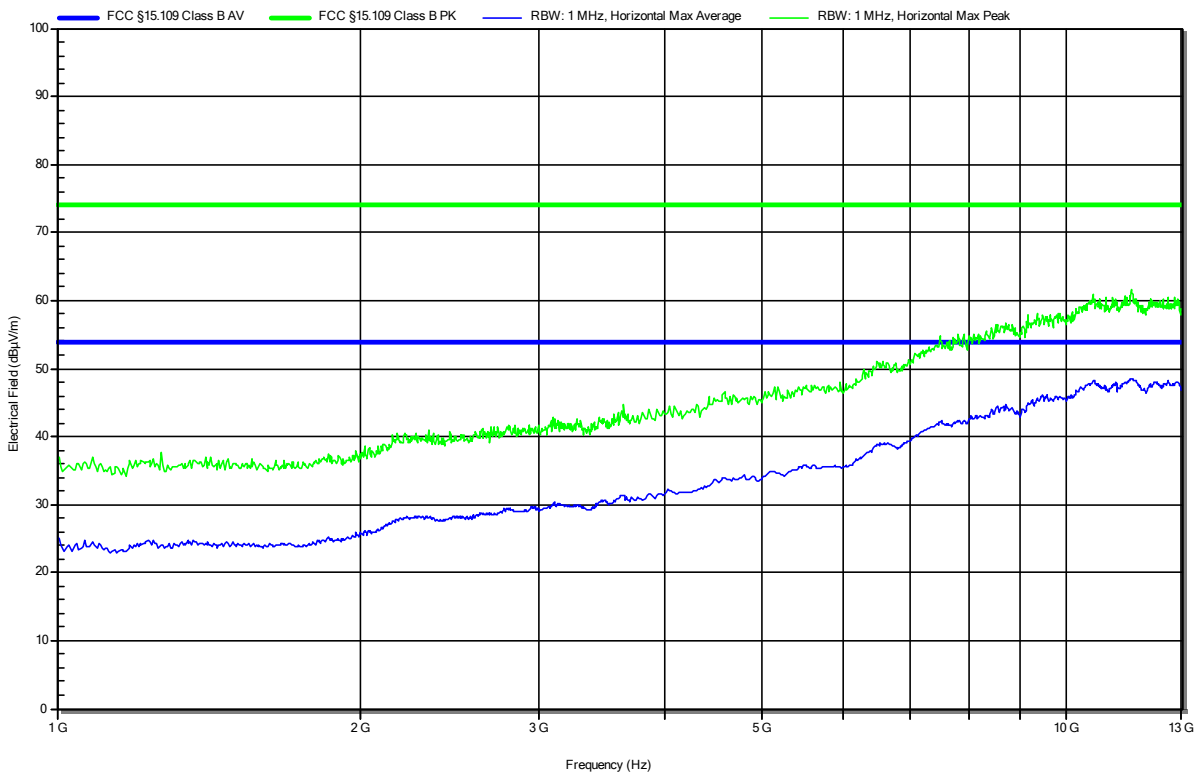


Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 12V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 3
 Note 1:

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RadiMation

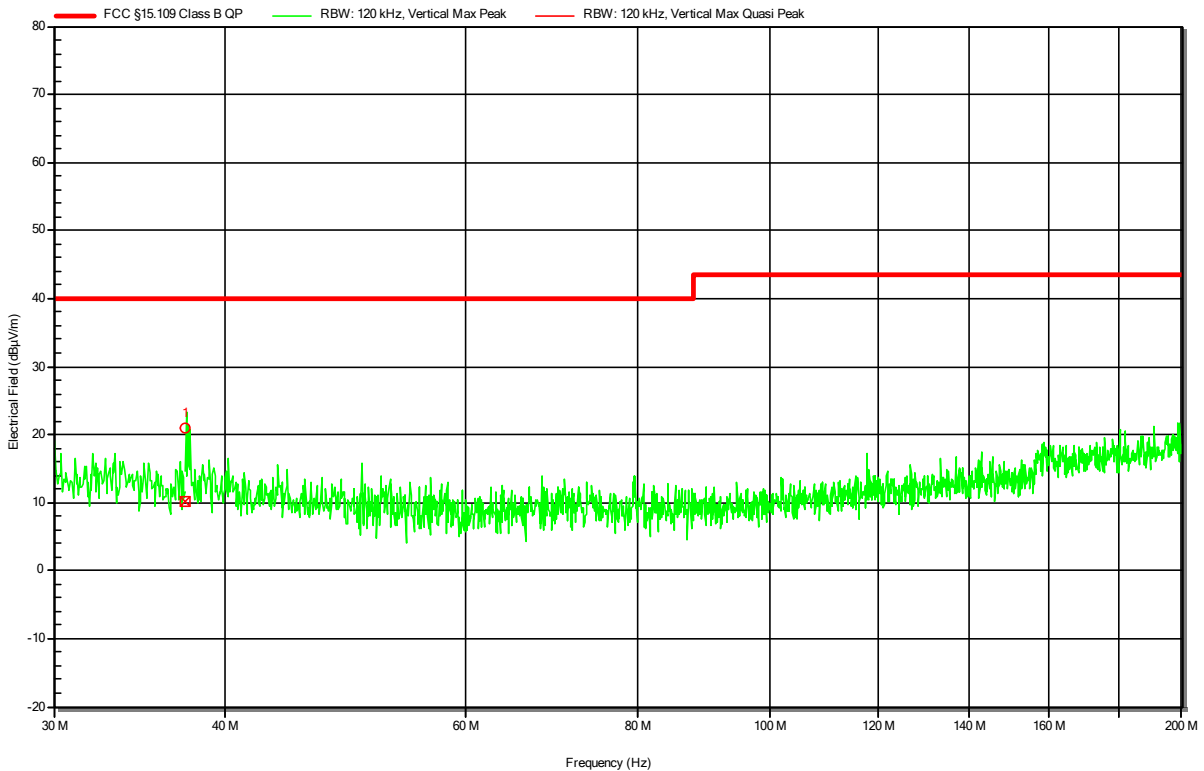


Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 4
 Note 1:

Index 1

RadiMation



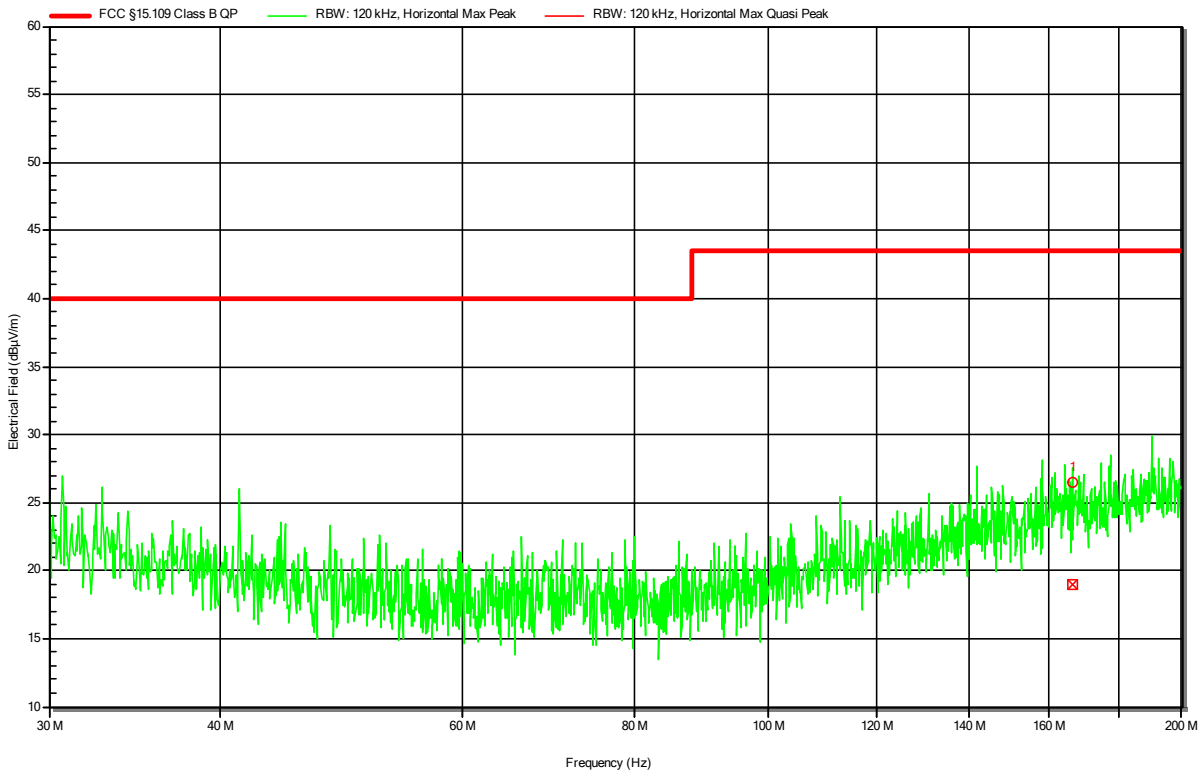
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	37,464 MHz	10,14 dBµV/m	40 dBµV/m	-29,86 dB	Pass	0 degrees	1 m

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 4
 Note 1:

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RadiMation



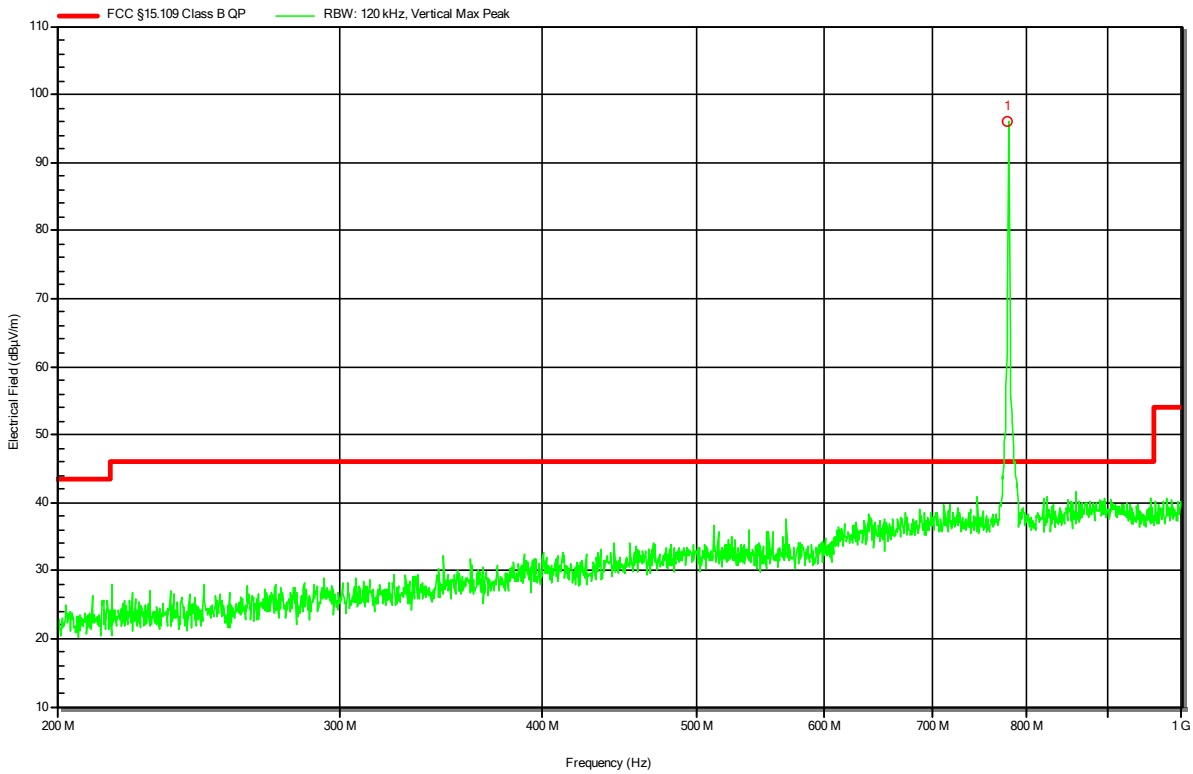
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	166,559 MHz	18,96 dBµV/m	43,52 dBµV/m	-24,56 dB	Pass	0 degrees	1 m

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 4
 Note 1:

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RadiMation



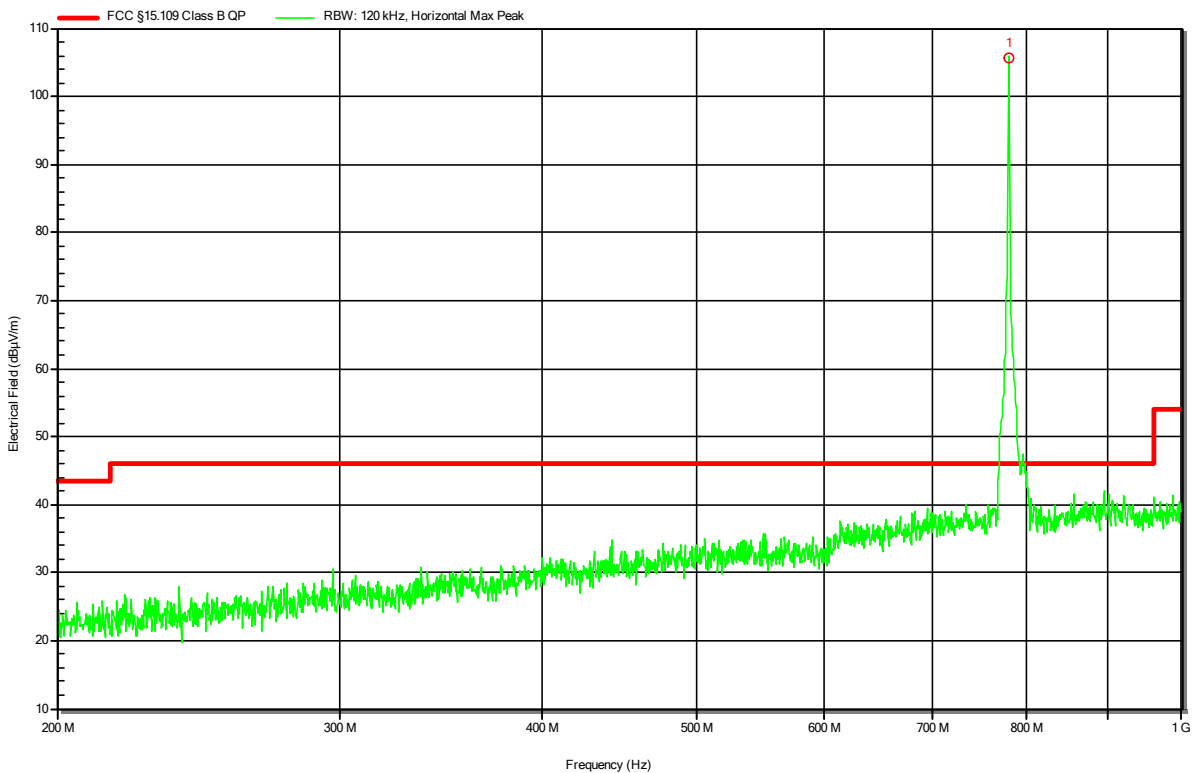
Peak Number	Frequency	Angle	Height
1	LTE FDD 13 carrier		

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 4
 Note 1:

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RadiMation



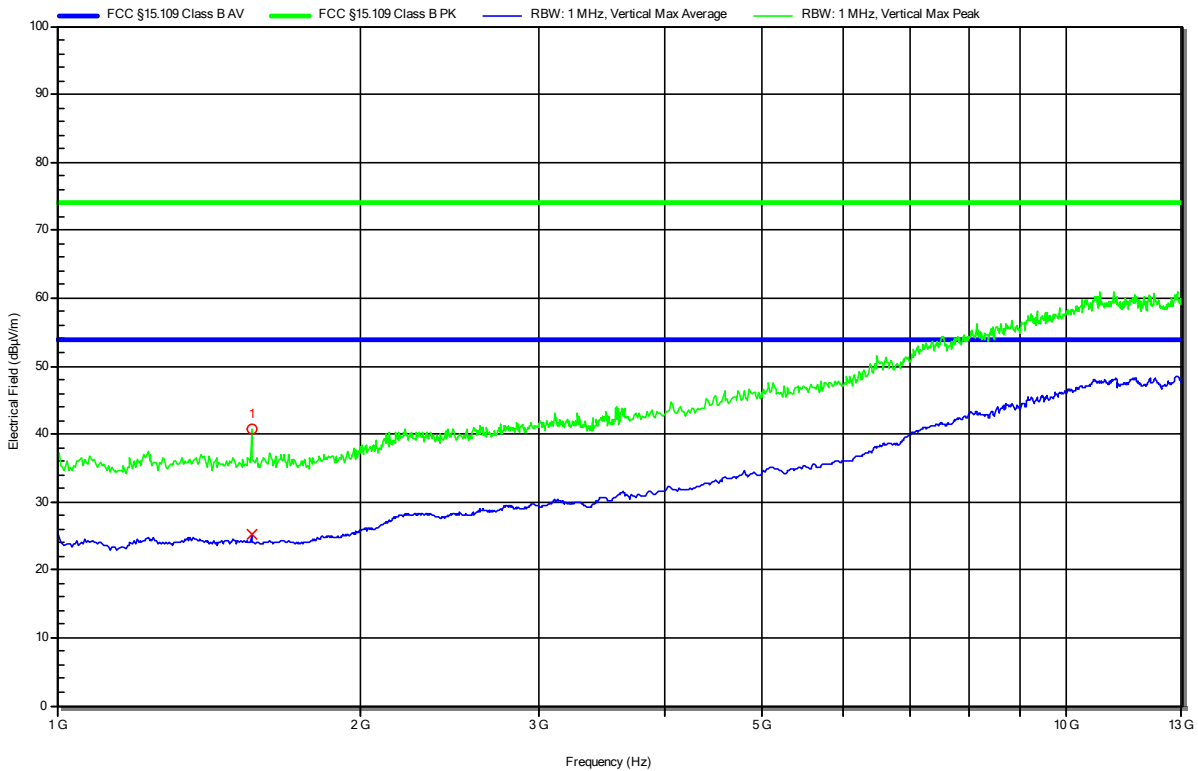
Peak Number	Frequency	Angle	Height
1	LTE FDD 4 carrier		

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 4
 Note 1: With 2.4GHz notchfilter for Bluetooth

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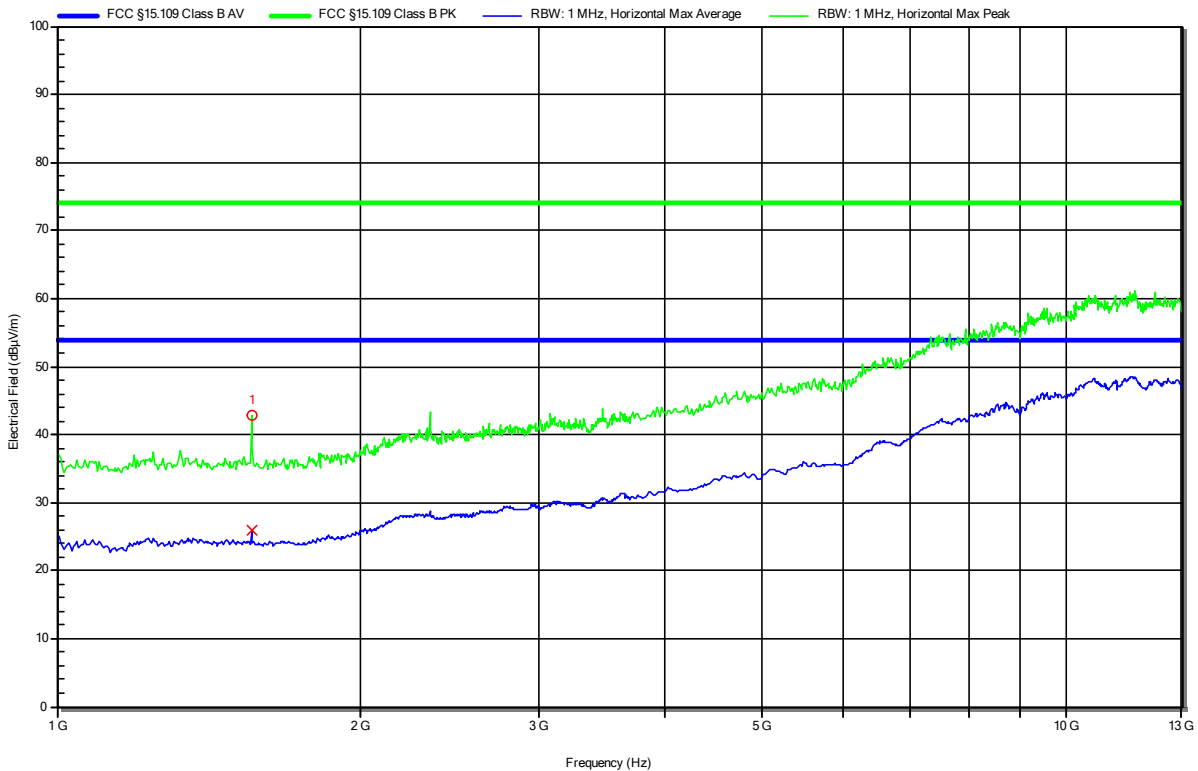
Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	1,558 GHz	2 nd Harmonic LTE FDD13					

Radiated emissions according to FCC part 15B

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: 9762
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-07-22
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 24V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement Distance: 3m
 Operational Mode & EUT Configuration: 4
 Note 1: With 2.4GHz notchfilter for Bluetooth

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Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	1,558 GHz	2 nd Harmonic LTE	FDD13				

3 Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2.

Test Name	Measurement Uncertainty
Conducted emissions at the mains power port	150kHz to 30MHz, 3.35dB
Radiated Emission	30MHz to 200MHz @ 3m, 5.1dB 200MHz to 1GHz @ 3m, 5.3dB >1GHz to 6GHz @3m, 5.95dB