

RADIO REPORT FCC 47 CFR Part 24E, FCC 47 CFR Part 27 ISED RSS-133, Issue 6 Amendment 1, ISED Canada RSS-139, Issue 3, ISED Canada RSS-130, Issue 2	
Report Reference No	G0M-2110-1107-TFCMOCORSE1-V01
Testing Laboratory	Eurofins Product Service GmbH
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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	Exelonix GmbH
Address	Washingtonstraße 16/16a 01139 Dresden DE
Test Specification	47 CFR Part 24E 47 CFR Part 27 ISED RSS-133, Issue 6+A1: 2018-01 ISED RSS-139, Issue 3: 2015-07 ISED RSS-130, Issue 2: 2019-02
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Internet USB device for connection with a laptop like host device
Model(s)	USB Connect 4G - NF
Additional Model(s)	None
Brand Name(s)	Exelonix
Hardware Version(s)	20-004-1.3-NF
Software Version(s)	25.20.668
FCC ID	2AUC4-UC4GNF
IC	25377-UC4GNF
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 – 23 °C	
Test Lab Humidity	32 % – 38 %	
Date of receipt of test item	2021-11-10	
Report:		
Compiled by	Charline Graf	
Tested by (+ signature) (Responsible for Test)	Burkhard Pudell	
Approved by (+ signature) (Deputy Head of Lab)	Toralf Jahn	
Date of Issue	2022-01-18	
Total number of pages	61	
General Remarks:		
The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Additional Comments:		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2022-01-18	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
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

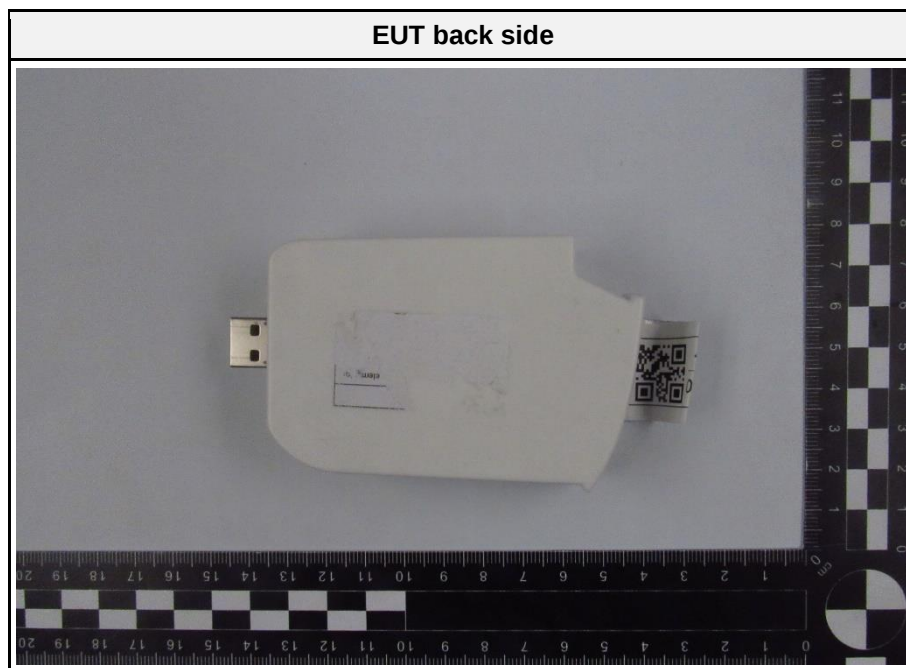
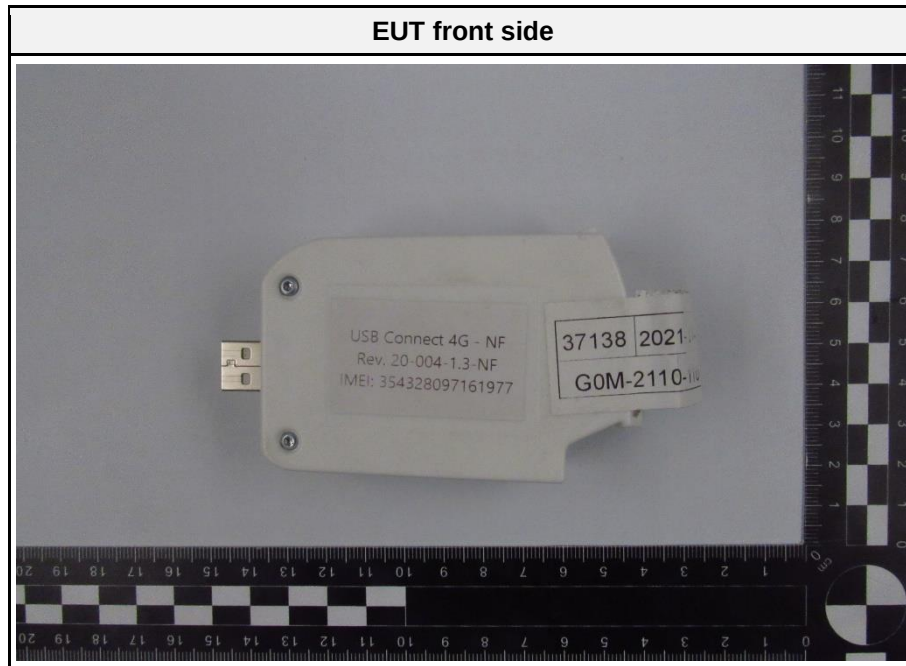
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1 Equipment (Test Item) Under Test

Description	Internet USB device for connection with a laptop like host device	
Model	USB Connect 4G - NF	
Additional Model(s)	None	
Brand Name(s)	Exelonix	
Serial Number(s)	354328097161977	
Hardware Version(s)	20-004-1.3-NF	
Software Version(s)	25.20.668	
PMN	USB Connect 4G - NF	
HVIN	20-004-1.3-NF	
FVIN	N/A	
HMN	N/A	
IC	25377-UC4GNF	
FCC ID	2AUC4-UC4GNF	
Equipment type	End Product	
Radio type	Transceiver	
Radio technologies	LTE	
LTE frequency bands	LTE FDD2 = UL = 1850 - 1910 MHz, DL = 1930 - 1990 MHz LTE FDD4 = UL = 1710 - 1755 MHz, DL = 2110 - 2155 MHz LTE FDD12 = UL = 699 - 716 MHz, DL = 729 - 746 MHz LTE FDD66 = UL = 1710 - 1780 MHz, DL = 2110 - 2200 MHz	
LTE Modulations	QPSK, 16-QAM	
Number of modules	1	
Radio Module	Type	4G-LTE-Modul
	Model	LE910C4-NF
	Manufacturer	Telit
	HW Version	HW1.2
	SW Version	25.20.668
	FCC-ID	RI7LE910CXNF
	IC	5131A-LE910CXNF
Antenna	Type	Internal antenna
	Model	CZ0006-0L01
	Manufacturer	Synzen
	Gain	B2: 5,53 dBi B4: 4,97 dBi B12: 2,89 dBi B66: 4,97 dBi
Supply Voltage	V _{NOM}	5 VDC
Manufacturer	Exelonix GmbH Washingtonstraße 16/16a 01139 Dresden DE	

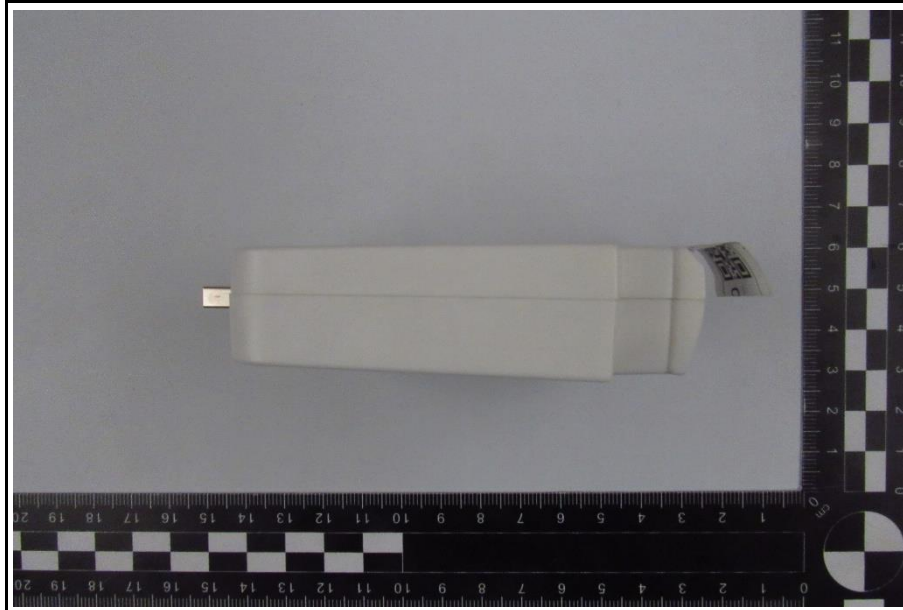
1.1 Photos – Equipment External



EUT left side



EUT right side



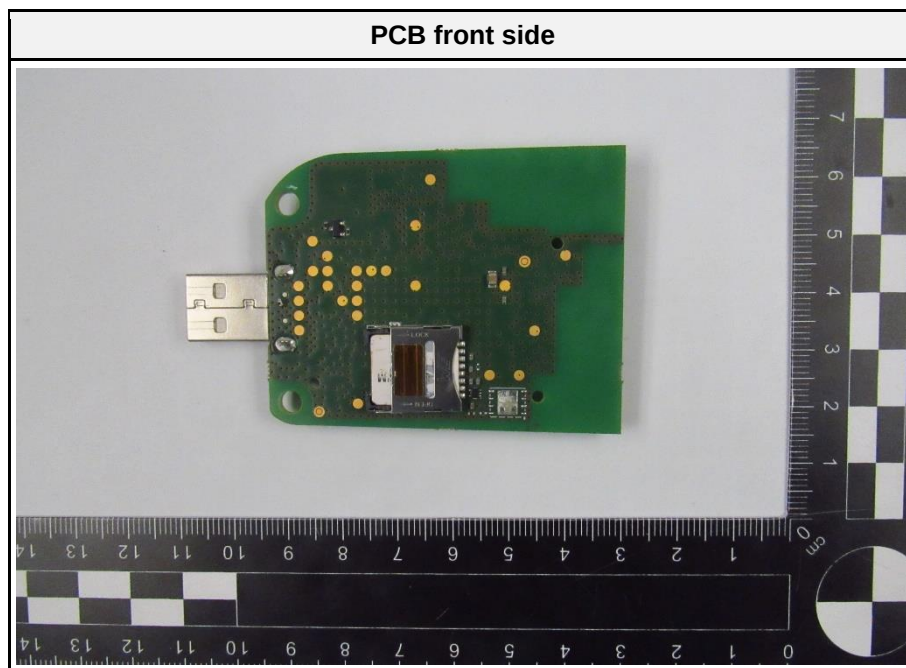
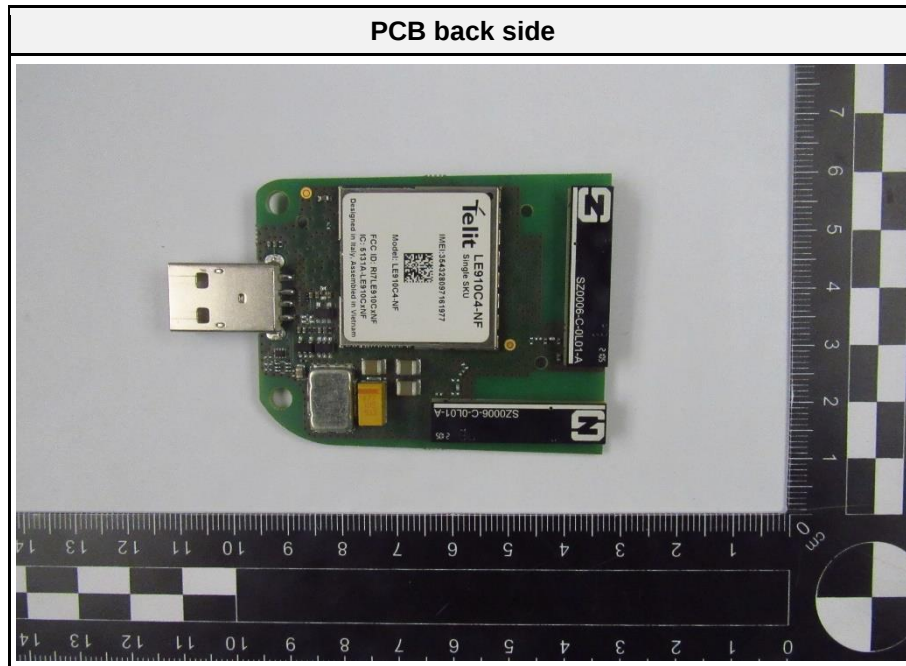
EUT bottom side



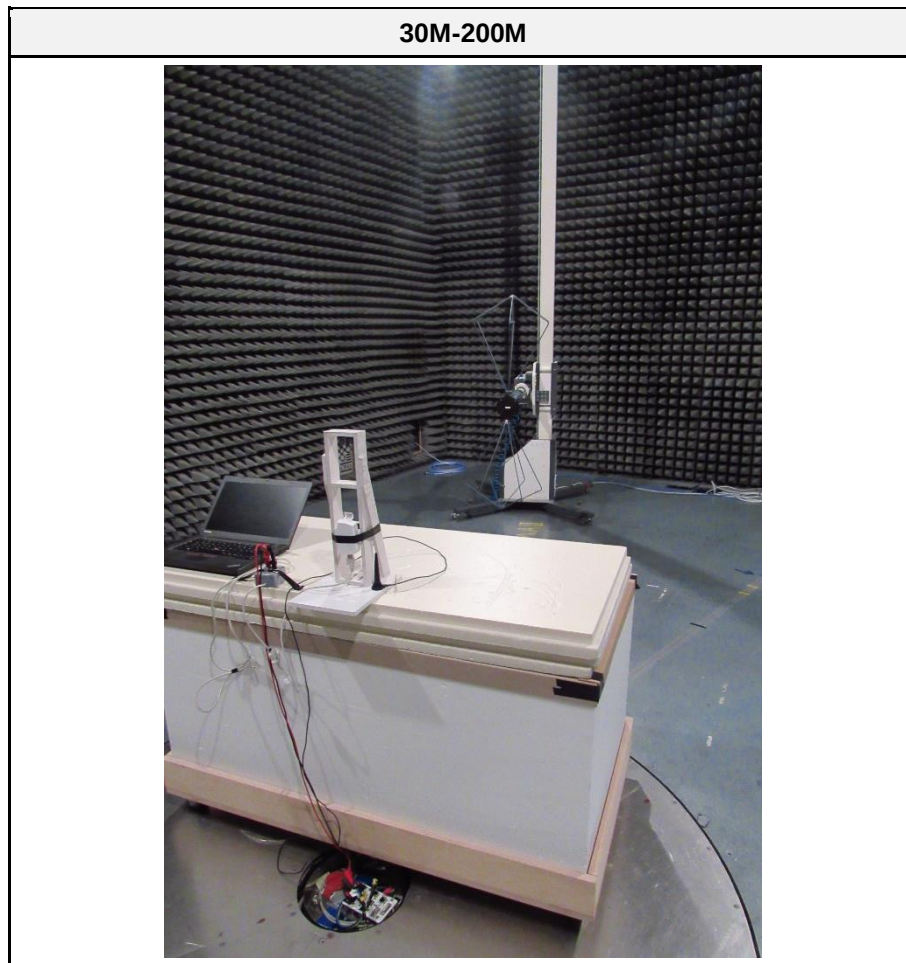
EUT top side



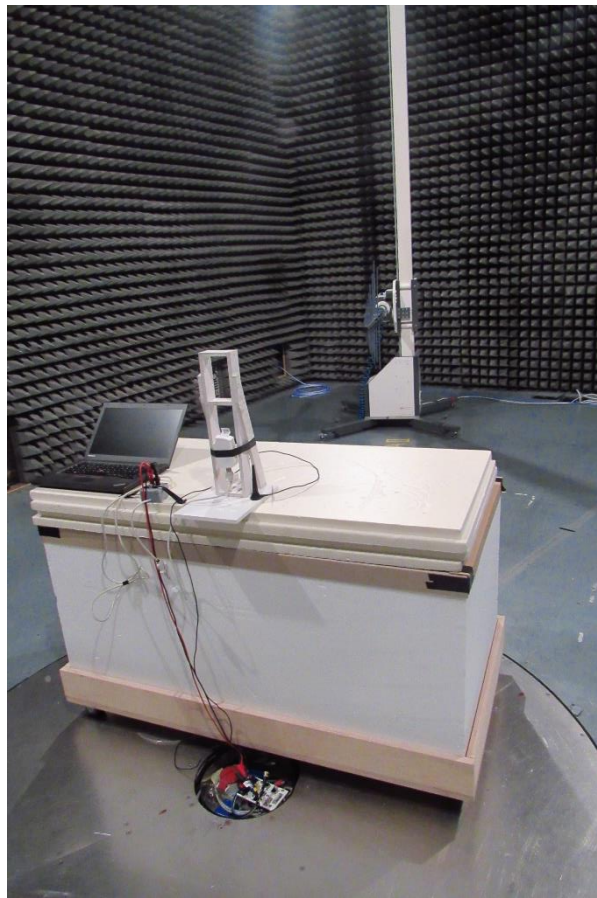
1.2 Photos – Equipment Internal



1.3 Photos – Test Setup



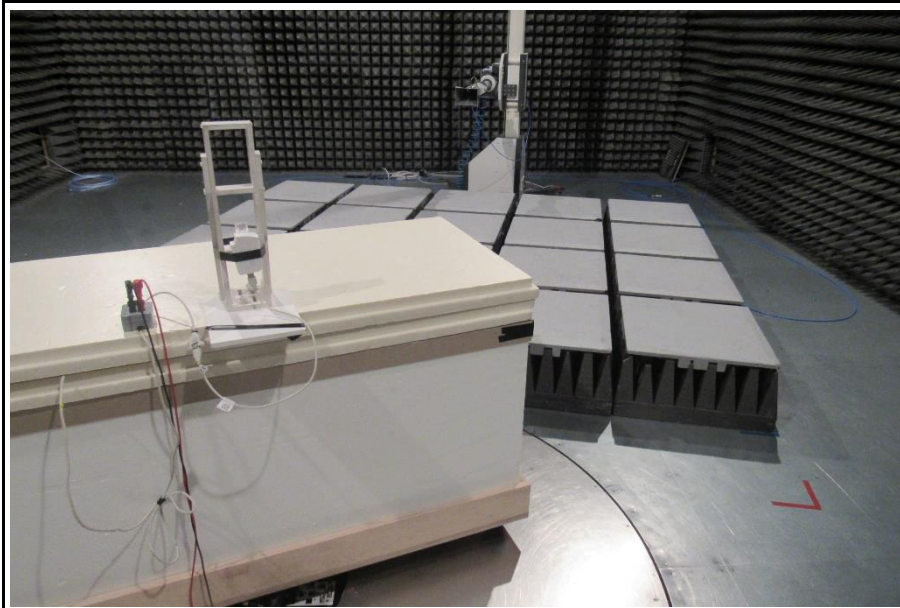
200M-1G



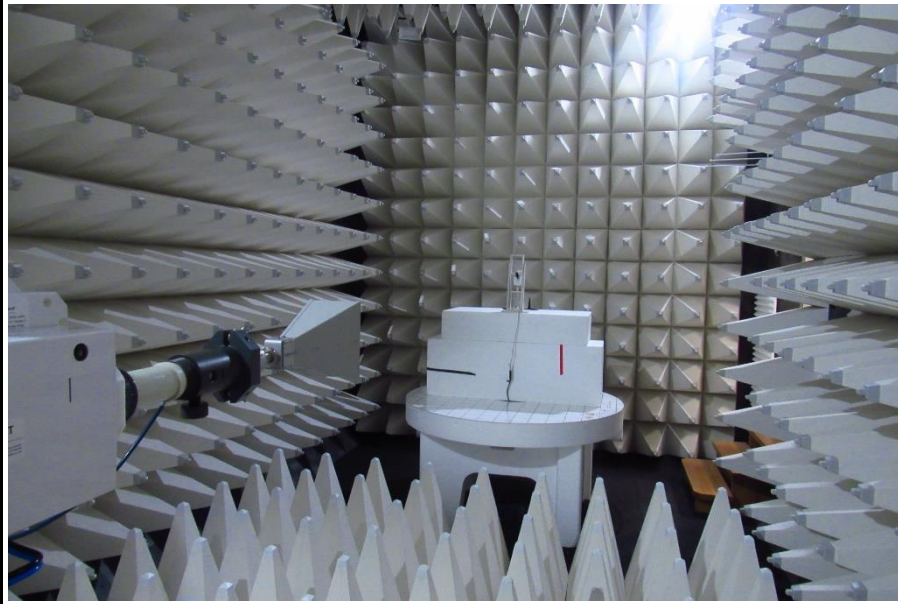
Rx_1-6G5



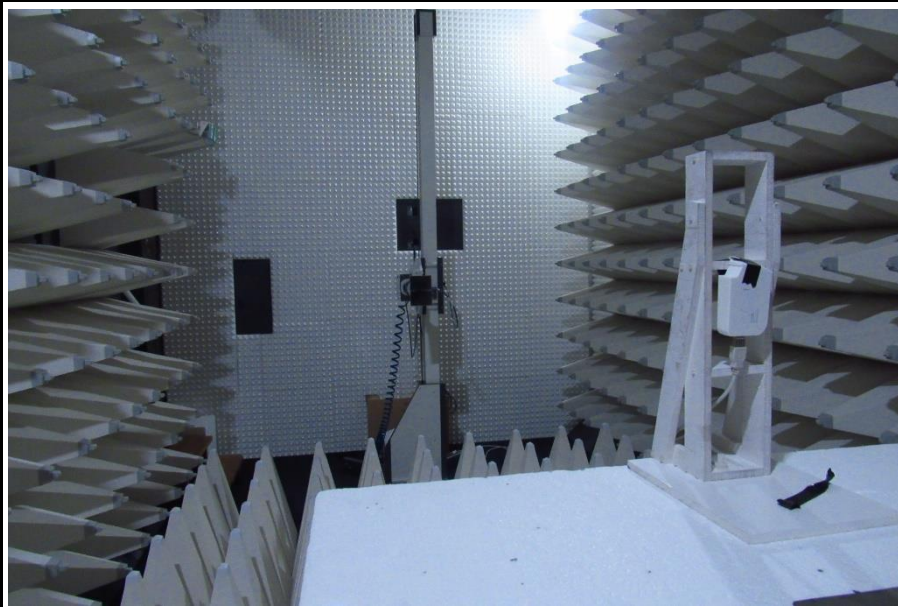
Rx_6G5-18



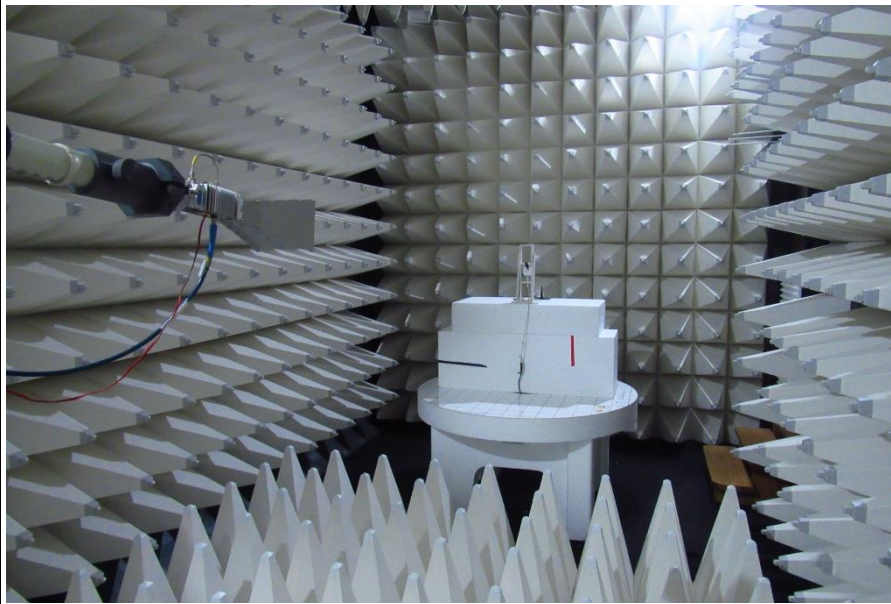
1-8G



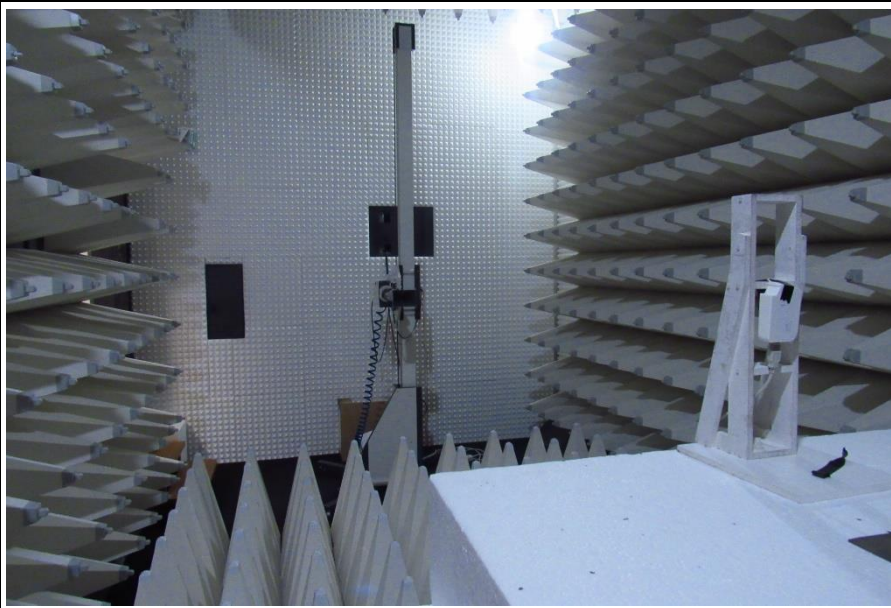
1-8G_2



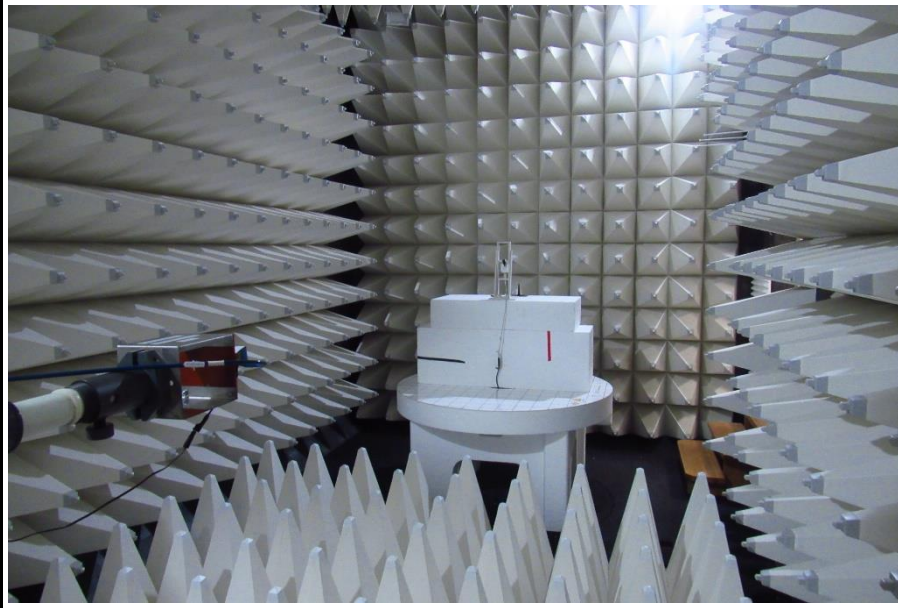
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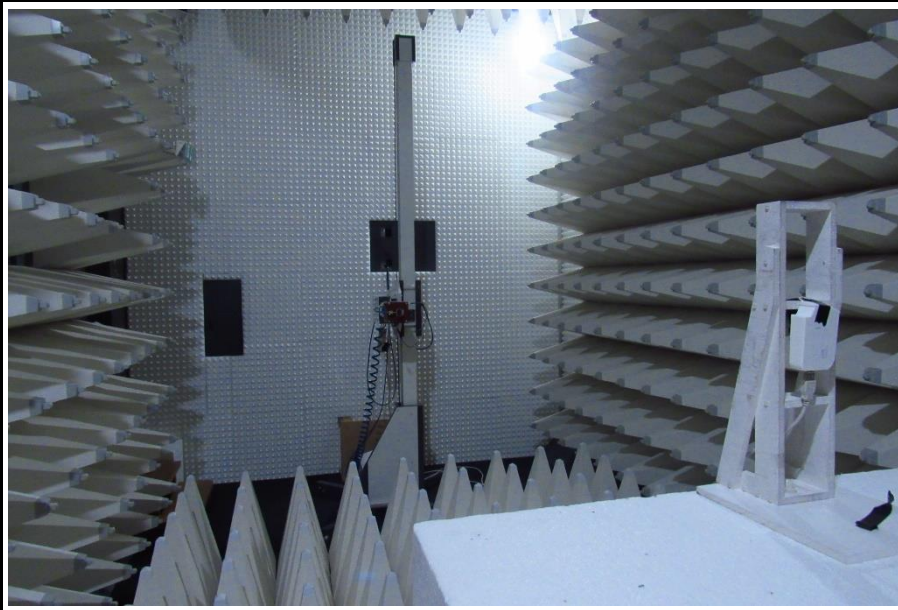
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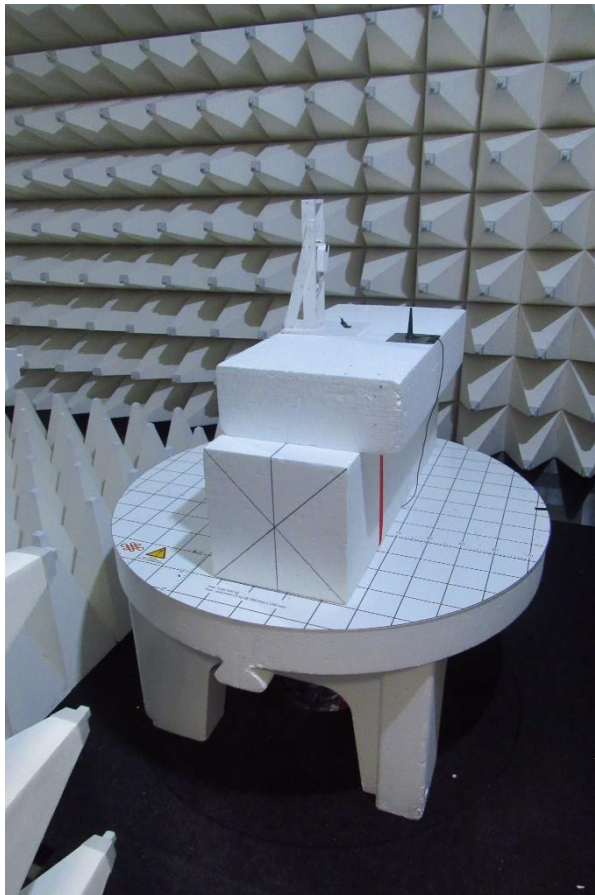
17G5-26G5



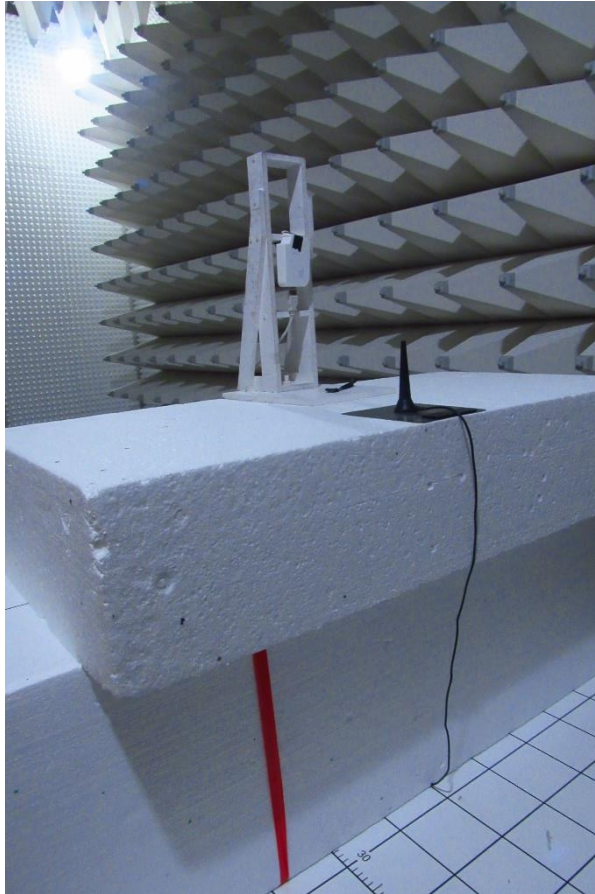
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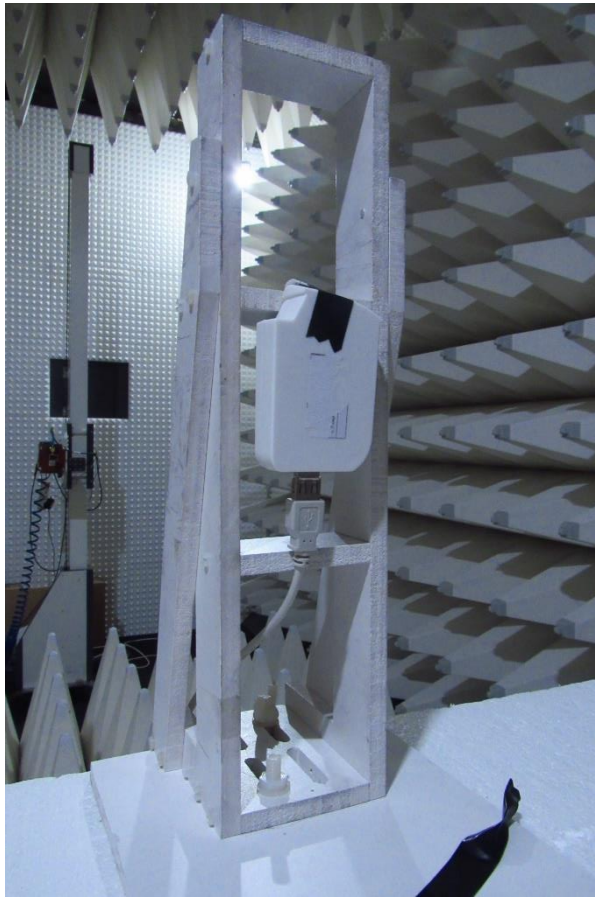
EUT-setup1



EUT-setup2



EUT-setup3



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
SIM	Communication Tester	R&S	CMW290	Base Station Simulator
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.5 Test Modes

Mode	Description
LTE FDD2 / QPSK	Channel = 18900 Mode = RMC TPC = Max Power Modulation = QPSK Bandwidth = 20 MHz Number of resource blocks = 1 Resource block offset = 49 Duty cycle = 100 %
LTE FDD2 / QAM	Channel = 18900 Mode = RMC TPC = Max Power Modulation = 16-QAM Bandwidth = 20 MHz Number of resource blocks = 1 Resource block offset = 49 Duty cycle = 100 %
LTE FDD2 / PMAX	Channel = 18900 Mode = RMC TPC = Max Power Modulation = QPSK Bandwidth = 3 MHz Number of resource blocks = 1 Resource block offset = 7 Duty cycle = 100 %
LTE FDD4 / QPSK	Channel = 20375 Mode = RMC TPC = Max Power Modulation = QPSK Bandwidth = 20 MHz Number of resource blocks = 1 Resource block offset = 0 Duty cycle = 100 %
LTE FDD4 / QAM	Channel = 20900 Mode = RMC TPC = Max Power Modulation = 16-QAM Bandwidth = 20 MHz Number of resource blocks = 1 Resource block offset = 49 Duty cycle = 100 %
LTE FDD4 / PMAX	Channel = 20375 Mode = RMC TPC = Max Power Modulation = QPSK Bandwidth = 5 MHz Number of resource blocks = 1 Resource block offset = 12 Duty cycle = 100 %
LTE FDD12 / QPSK	Channel = 23060 Mode = RMC TPC = Max Power Modulation = QPSK Bandwidth = 10 MHz Number of resource blocks = 1 Resource block offset = 24 Duty cycle = 100 %

LTE FDD12 / QAM	Channel = 23130 Mode = RMC TPC = Max Power Modulation = 16-QAM Bandwidth = 10 MHz Number of resource blocks = 1 Resource block offset = 49 Duty cycle = 100 %
LTE FDD12 / PMAx	Channel = 23173 Mode = RMC TPC = Max Power Modulation = QPSK Bandwidth = 1.4 MHz Number of resource blocks = 1 Resource block offset = 2 Duty cycle = 100 %
LTE FDD66 / QPSK	Channel = 132322 Mode = RMC TPC = Max Power Modulation = QPSK Bandwidth = 20 MHz Number of resource blocks = 1 Resource block offset = 0 Duty cycle = 100 %
LTE FDD66 / QAM	Channel = 132322 Mode = RMC TPC = Max Power Modulation = 16-QAM Bandwidth = 20 MHz Number of resource blocks = 1 Resource block offset = 49 Duty cycle = 100 %
LTE FDD66 / PMAx	Channel = 132322 Mode = RMC TPC = Max Power Modulation = QPSK Bandwidth = 3 MHz Number of resource blocks = 1 Resource block offset = 7 Duty cycle = 100 %
Comment: Above worst case scenarios were found in module test report: 1870209R-HPUSP17V00-A, 2018-08-23 issued by DEKRA	

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:

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

Net:

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

Limit:

This is the FCC Class B radiated emission limit (in units of 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 = 47.5 dBμV/m	:	47.5 dBμV/m	- 57.0 dBμV/m	= -9.5 dB

2 Result Summary

Test Summary)				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
47 CFR §24.232 47 CFR §27.50 ISED RSS-133 §6.4 ISED RSS-139 §6.5 ISED RSS-130 §4.6	Radiated power	ANSI C63.26 KDB 971168	PASS	
47 CFR §24.238 47 CFR §27.53 ISED RSS-133 §6.5 ISED RSS-139 §6.6 ISED RSS-130 §4.7	Transmitter conducted emissions	ANSI C63.26 KDB 971168	N/T	
47 CFR §24.238 47 CFR §27.53 ISED RSS-133 §6.5 ISED RSS-139 §6.6 ISED RSS-130 §4.7	Transmitter radiated emissions	ANSI C63.26 KDB 971168	PASS	
ISED RSS-133 §3.1 ISED RSS-139 §3.1 ISED RSS-130 §3.3 ISED RSS-Gen §7	Receiver conducted emissions	ANSI C63.26 KDB 971168	N/T	
ISED RSS-133 §3.1 ISED RSS-139 §3.1 ISED RSS-130 §3.3 ISED RSS-Gen §7	Receiver radiated emissions	ANSI C63.26 KDB 971168	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 - Radiated power

3.1.1 Information

Test Information	
Reference	47 CFR §24.232 47 CFR §27.50 ISED RSS-133 §6.4 ISED RSS-139 §6.5 ISED RSS-130 §4.6
Measurement Uncertainty	± 5.95 dB
Operator	Burkhard Pudell
Date	2021-12-10

3.1.2 Limits

Limits - Portable equipment					
Band	Frequency range [MHz]	Power limit [dBm ERP]	Power limit [W ERP]	Power limit [dBm EIRP]	Power limit [W EIRP]
LTE FDD2	1850 - 1910	30.85	1.22	33	2
LTE FDD4	1710 - 1780	27.85	0.61	30	1
LTE FDD12	699 - 716	34.77	3	36.92	4.92
LTE FDD66	1710 - 1780	27.85	0.61	30	1

3.1.3 Procedure

Test Procedure
1. The highest conducted output power for each radio technology, band, modulation and bandwidth is determined
2. The antenna gain for the corresponding transmission frequency is added to the conducted output power
3. The calculated radiated power is compared to the transmitter output power limit

3.1.4 Results

Test Results - LTE FDD2						
Mode	Power [dBm]	Antenna gain [dBi]	Radiated power [dBm EIRP]	Limit [dBm EIRP]	Margin [dB]	Result
LTE FDD2 / PMAX	24.57	5.53	30.10	33	-02.90	PASS
LTE FDD2 / QPSK	24.18	5.53	29.71	33	-03.29	PASS
LTE FDD2 / QAM	23.60	5.53	29.21	33	-03.87	PASS

Test Results - LTE FDD4						
Mode	Power [dBm]	Antenna gain [dBi]	Radiated power [dBm EIRP]	Limit [dBm EIRP]	Margin [dB]	Result
LTE FDD4 / PMAX	24.59	4.97	29.56	30	-00.44	PASS
LTE FDD4 / QPSK	24.23	4.97	29.20	30	-00.80	PASS
LTE FDD4 / QAM	23.96	4.97	28.93	30	-01.07	PASS

Test Results - LTE FDD12						
Mode	Power [dBm]	Antenna gain [dBi]	Radiated power [dBm EIRP]	Limit [dBm EIRP]	Margin [dB]	Result
LTE FDD12 / PMAX	24.74	2.89	27.63	36.92	-09.29	PASS
LTE FDD12 / QPSK	24.13	2.89	27.02	36.92	-09.90	PASS
LTE FDD12 / QAM	23.32	2.89	26.21	36.92	-10.71	PASS

Test Results - LTE FDD66						
Mode	Power [dBm]	Antenna gain [dBi]	Radiated power [dBm EIRP]	Limit [dBm EIRP]	Margin [dB]	Result
LTE FDD66 / PMAX	24.41	4.97	29.38	30	-00.62	PASS
LTE FDD66 / QPSK	24.34	4.97	29.31	30	-00.69	PASS
LTE FDD66 / QAM	23.49	4.97	28.46	30	-01.54	PASS

3.2 Test Conditions and Results - Transmitter radiated emissions

3.2.1 Information

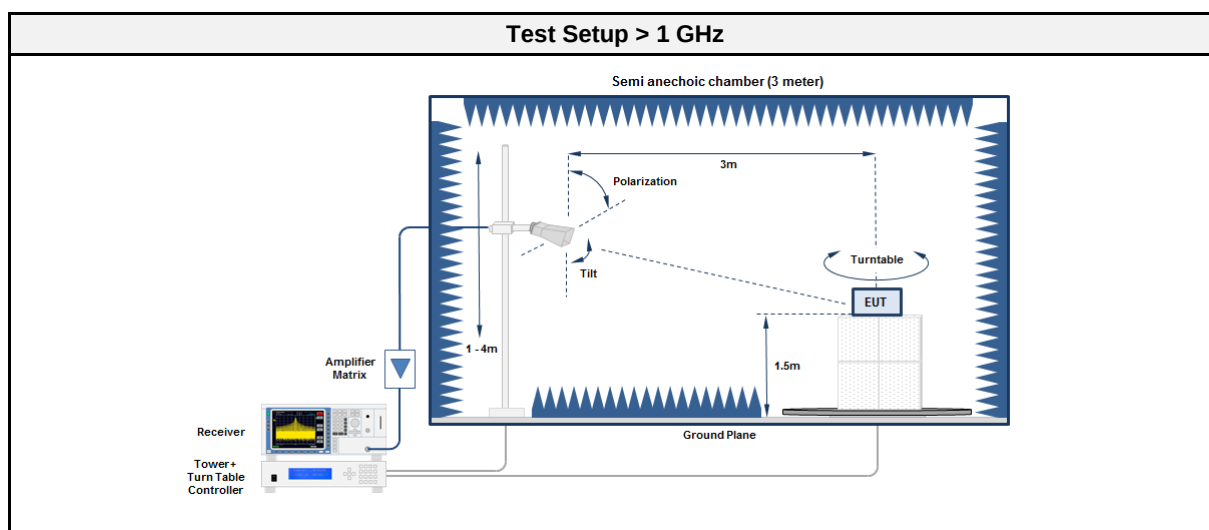
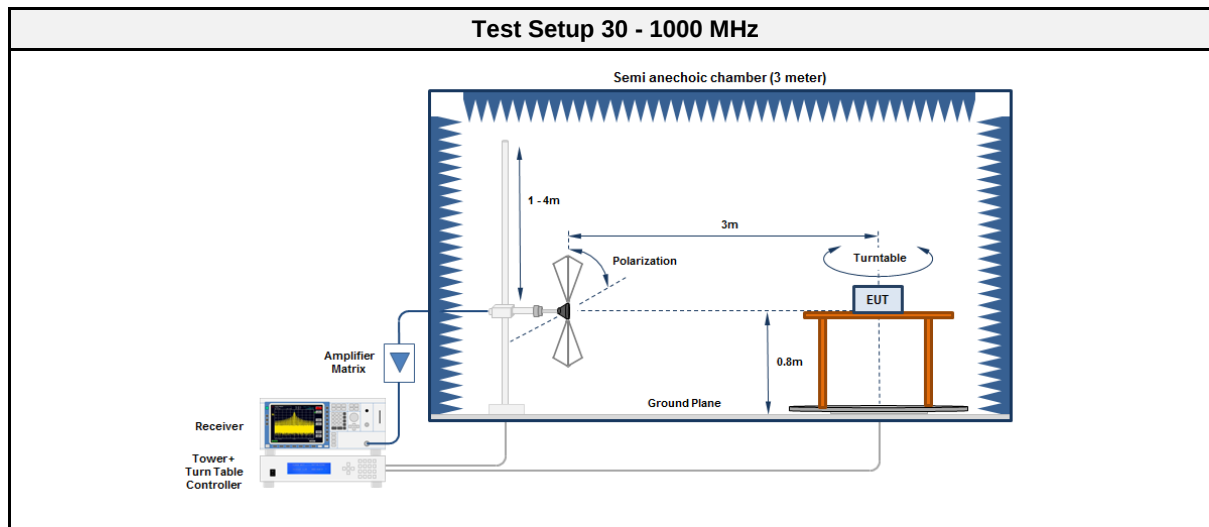
Test Information	
Reference	47 CFR §24.238 47 CFR §27.53 ISED RSS-133 §6.5 ISED RSS-139 §6.6 ISED RSS-130 §4.7
Measurement Method	FCC KDB 971168 D01 Section 7 ANSI C63.26-2015 5.5
Measurement Uncertainty	± 5.95 dB
Operator	Burkhard Pudell
Date	2021-12-10

3.2.2 Limits

Limits FCC				
Band	Frequency range [MHz]	Bandwidth	Attenuation [dB]	Limit [dBm EIRP]
LTE FDD2	30 - 26500	1 MHz	43+Log ₁₀ (P[W])	-13
LTE FDD4	30 - 26500	1 MHz	43+Log ₁₀ (P[W])	-13
LTE FDD12	30 - 10000	100 kHz	43+Log ₁₀ (P[W])	-13
LTE FDD66	30 - 26500	1 MHz	43+Log ₁₀ (P[W])	-13

Limits ISED				
Band	Frequency range [MHz]	Bandwidth	Attenuation [dB]	Limit [dBm EIRP]
LTE FDD2	30 - 26500	1 MHz	43+Log ₁₀ (P[W])	-13
LTE FDD4	30 - 26500	1 MHz	43+Log ₁₀ (P[W])	-13
LTE FDD12	30 - 10000	100 kHz	43+Log ₁₀ (P[W])	-13
LTE FDD66	30 - 26500	1 MHz	43+Log ₁₀ (P[W])	-13

3.2.3 Setup



3.2.4 Equipment

Test Equipment 30 - 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	AC2	EF01616	2021-02	2024-02
Spectrum Analyser	R&S	FSU 43	EF01631	2020-07	2021-07
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2019-10	2022-10
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.2.5 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° three positions and the height of the antenna is varied from 1 m to 2.5 m with tilt function
5.	All significant emissions are measured again using the corresponding final detector

3.2.6 Results

Test Results - LTE FDD2					
Mode	Frequency [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Result
LTE FDD2 / PMAX	32.877	-44.9	-13.00	-31.93	PASS
LTE FDD2 / PMAX	481.02	-45.75	-13.00	-32.75	PASS

Test Results - LTE FDD4					
Mode	Frequency [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Result
LTE FDD4 / PMAX	32.597	-44.73	-13.00	-31.73	PASS
LTE FDD4 / PMAX	479.96	-55.65	-13.00	-42.65	PASS
LTE FDD4 / PMAX	14021	-35.86	-13.00	-22.86	PASS
LTE FDD4 / PMAX	19279	-42.18	-13.00	-29.18	PASS

Test Results - LTE FDD12					
Mode	Frequency [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Result
LTE FDD12 / PMAX	32.584	-47.00	-13.00	-33.95	PASS
LTE FDD12 / PMAX	707.9	-18.90	-13.00	-05.95	PASS
LTE FDD12 / PMAX	737.06	-31.30	-13.00	-18.28	PASS

Test Results - LTE FDD66 / QPSK					
Mode	Frequency [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Result
LTE FDD66 / PMAX	32.86	-45.30	-13.00	-32.25	PASS
LTE FDD66 / PMAX	300.16	-55.80	-13.00	-42.80	PASS
LTE FDD66 / PMAX	13962	-35.40	-13.00	-22.36	PASS
LTE FDD66 / PMAX	19197	-46.40	-13.00	-33.43	PASS

3.3 Test Conditions and Results - Receiver radiated emissions

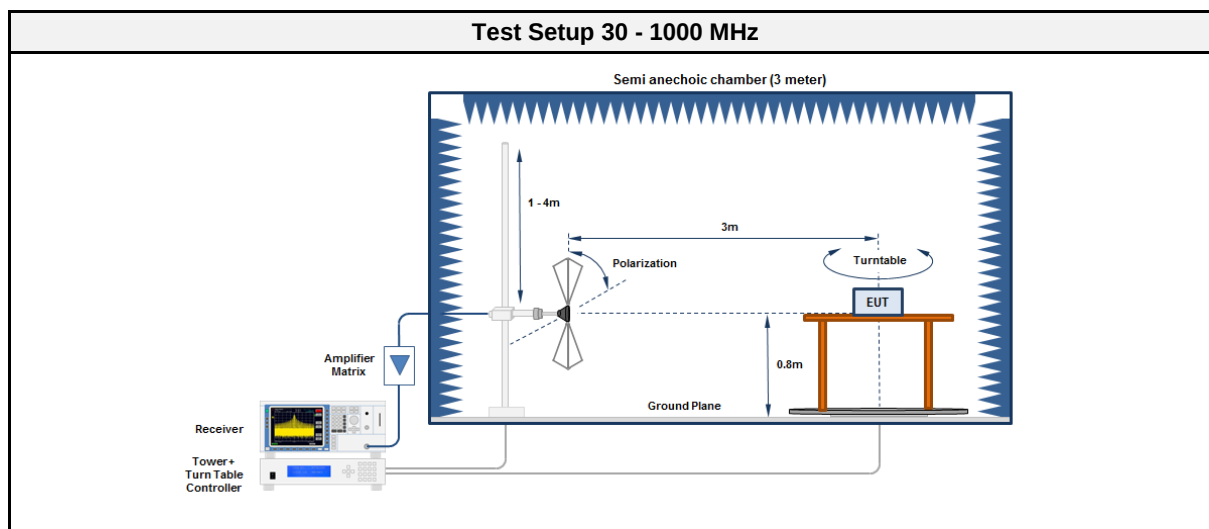
3.3.1 Information

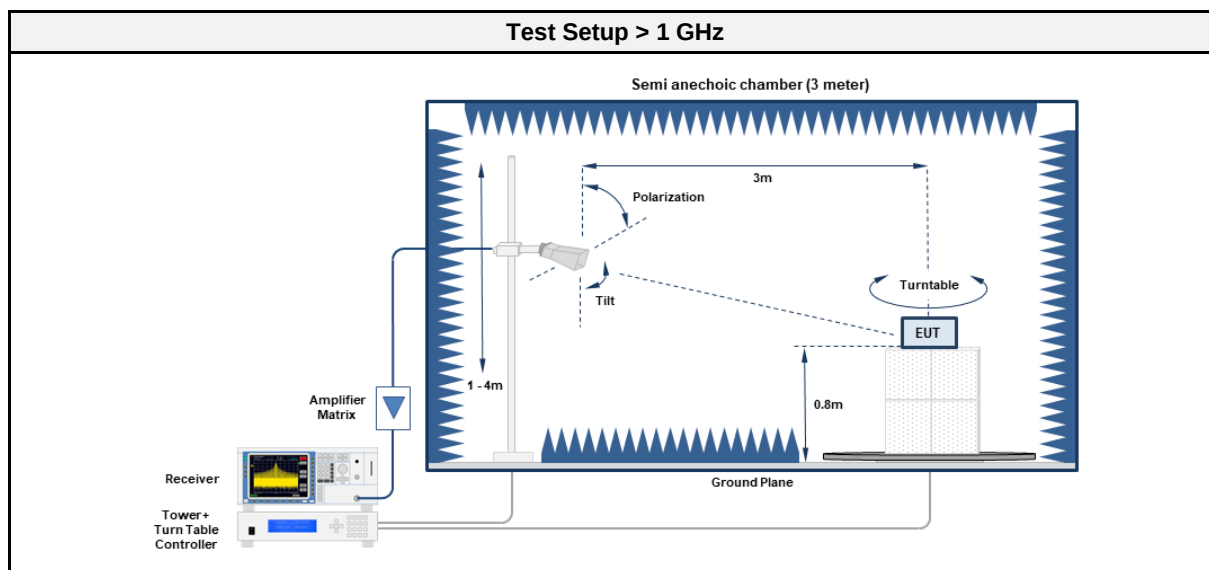
Test Information	
Reference	ISED RSS-133 §3.1 ISED RSS-139 §3.1 ISED RSS-130 §3.3 ISED RSS-Gen §7.4
Measurement Method	ANSI C63.10-2013 6.3-6.6
Measurement Uncertainty	± 5.95 dB
Operator	Burkhard Pudell
Date	2021-12-13

3.3.2 Limits

Limits			
Frequency range [MHz]	Bandwidth	Detector	Limit [dB μ V/m @ 3 m]
30 - 88	100 kHz	Quasi-peak	40
88 - 216	100 kHz	Quasi-peak	43.5
216 - 960	100 kHz	Quasi-peak	46
960 - 1000	100 kHz	Quasi-peak	54
> 1000	1 MHz	Average	54

3.3.3 Setup





3.3.4 Equipment

Test Equipment 30 - 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	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.3.5 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

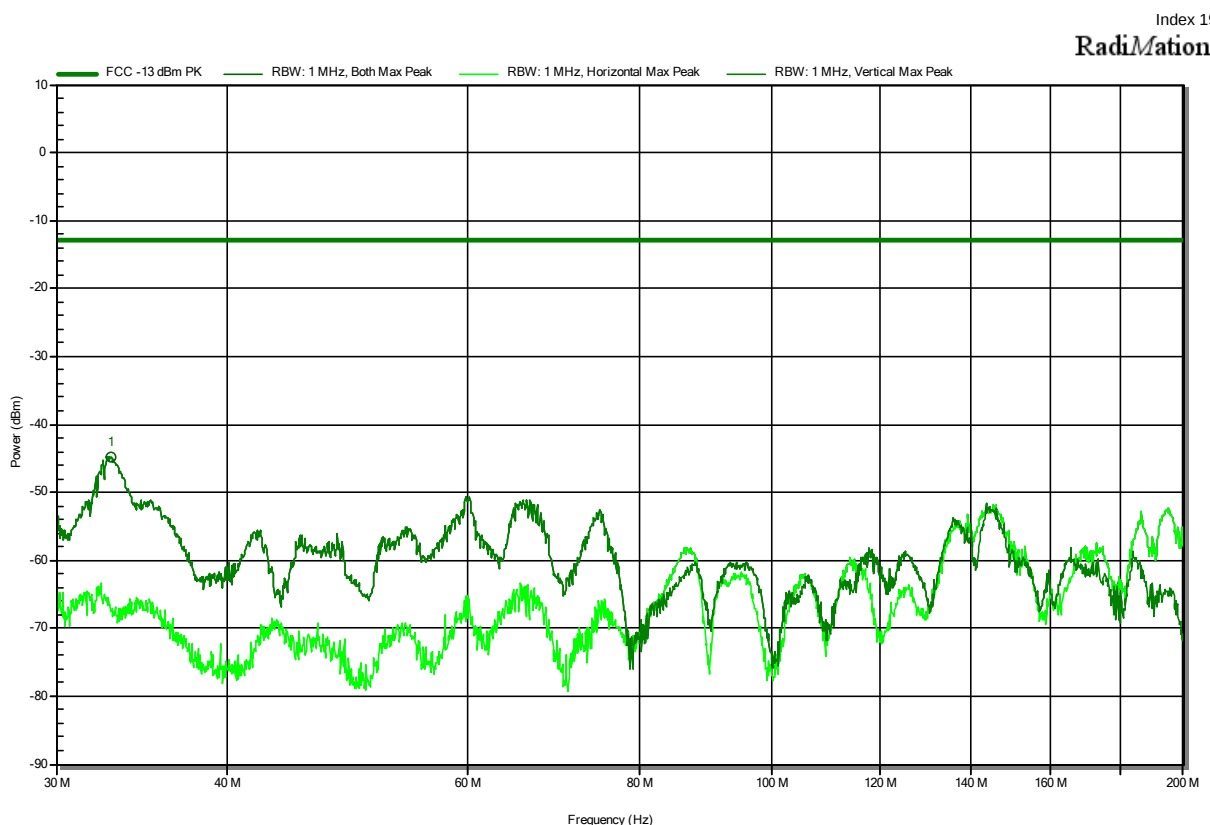
3.3.6 Results

Test Results - LTE					
Mode	Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result
Receive Mode	192.0058	27.20	43.50	-16.35	PASS
Receive Mode	479.9986	38.90	46.00	-07.14	PASS
Receive Mode	2145	68.84	74.00	-05.16	PASS

ANNEX A Transmitter radiated emissions

Radiated Spurious Emissions according to 47 CFR Part 24 Subpart E, RSS-133, Issue 6

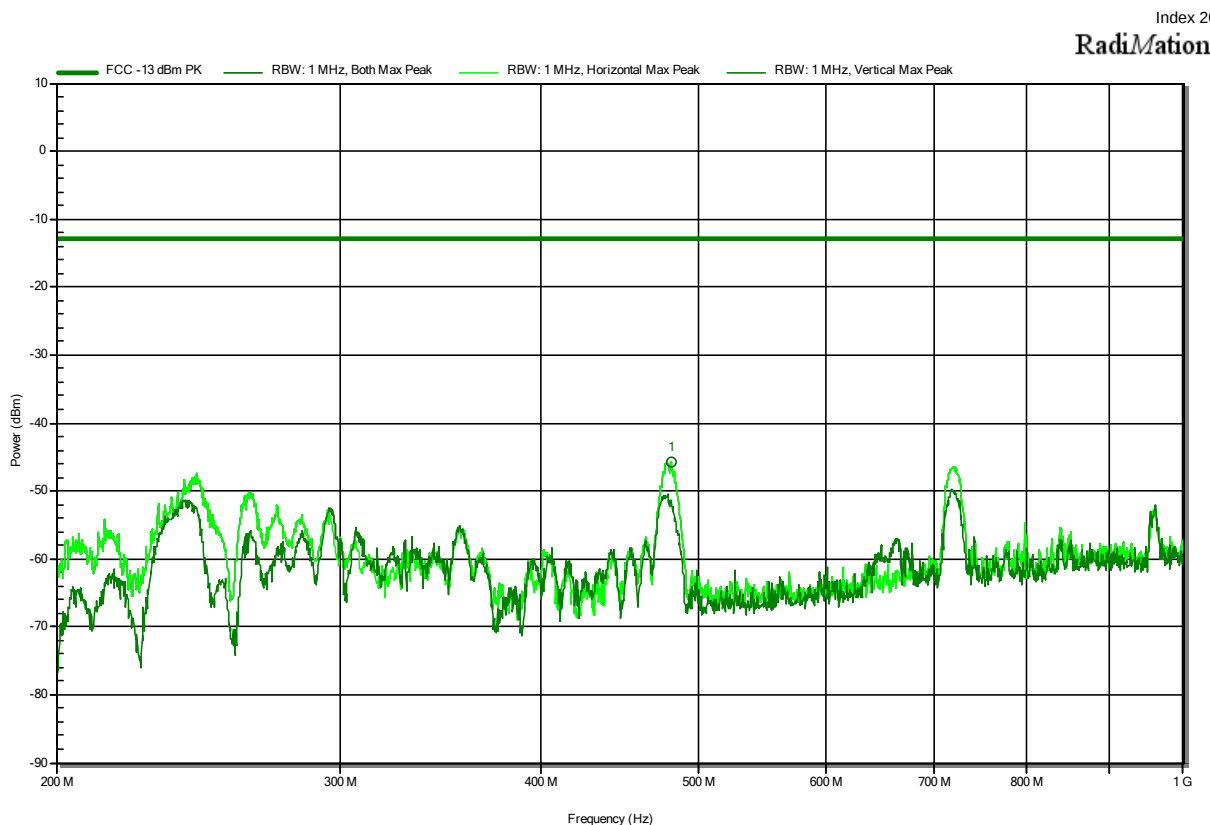
Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 2_CH 18900 (1880.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-13
 Note: EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
32.877 MHz	-44.9 dBm	-13 dBm	-31.93 dB	Pass

Radiated Spurious Emissions according to 47 CFR Part 24 Subpart E, RSS-133, Issue 6

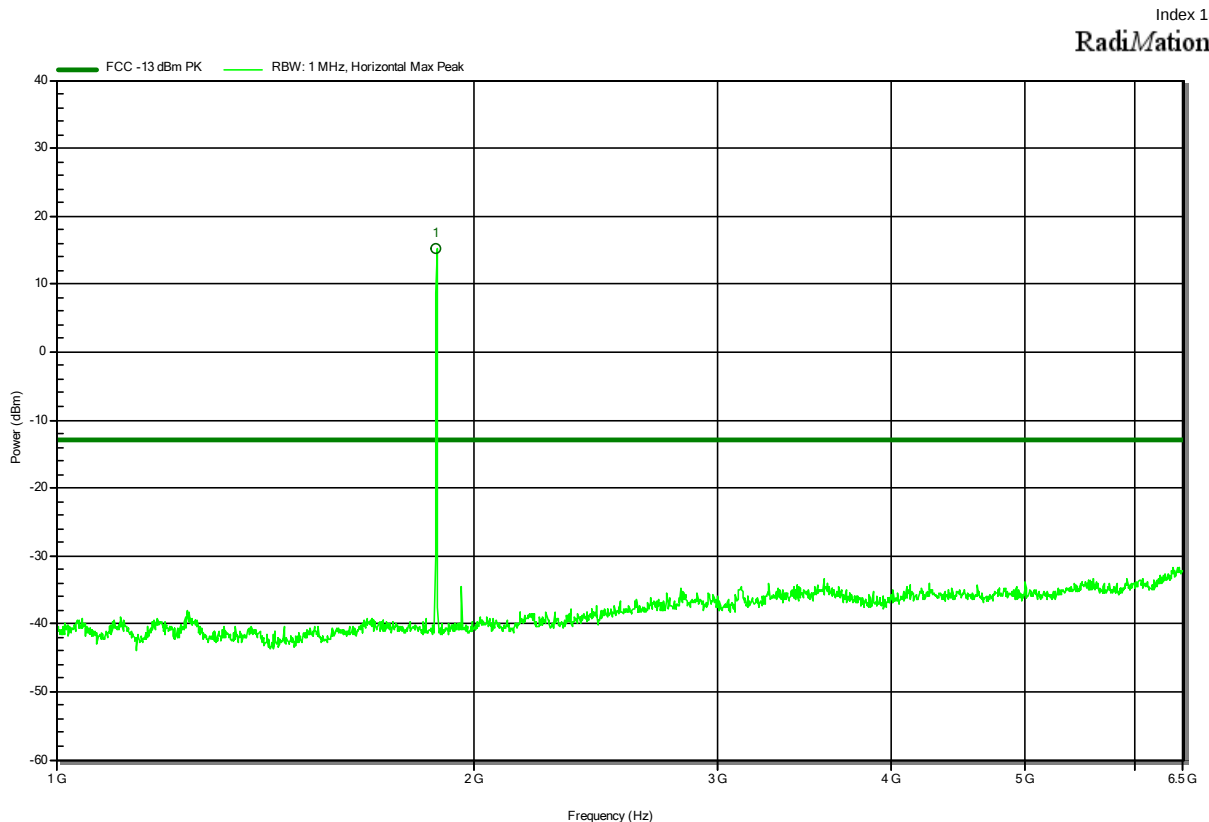
Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 2_CH 18900 (1880.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-13
 Note: EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
481.02 MHz	-45.7 dBm	-13 dBm	-32.75 dB	Pass

Radiated Spurious Emissions according to 47 CFR Part 24 Subpart E, RSS-133, Issue 6

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Schwarzbeck BBHA 9120B, Horizontal
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 2_CH 18900 (1880.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-13
 Note: EUT vertical



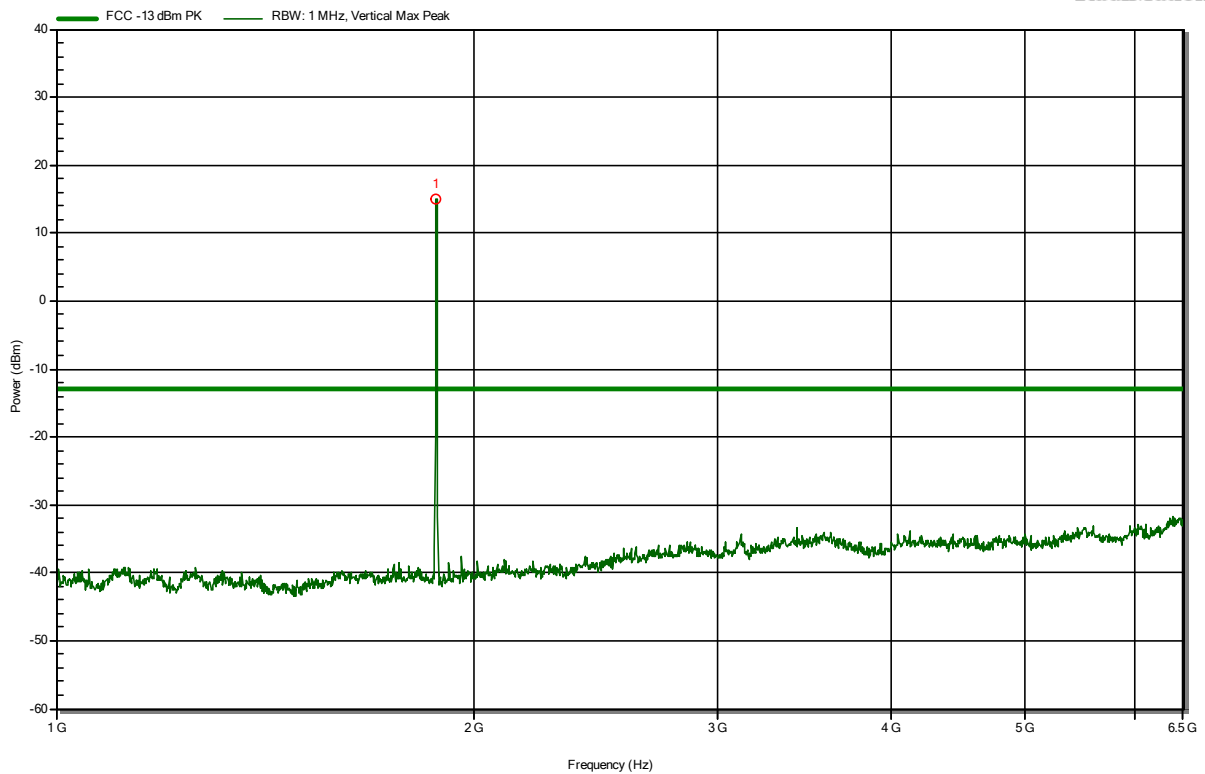
Frequency
 1.88 GHz Uplink Carrier

Radiated Spurious Emissions according to 47 CFR Part 24 Subpart E, RSS-133, Issue 6

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Schwarzbeck BBHA 9120B, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 2_CH 18900 (1880.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-13
 Note: EUT vertical

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RadiMation

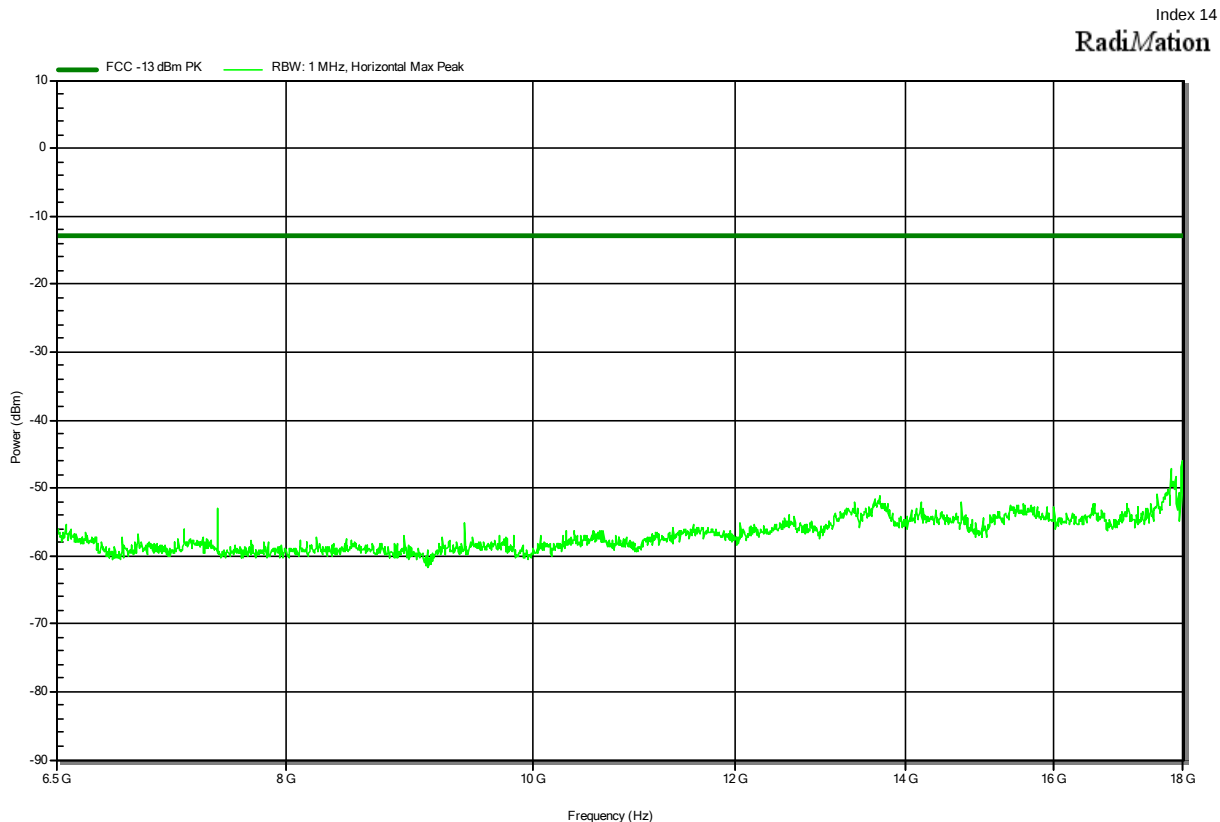


Frequency
1.88 GHz

Uplink Carrier

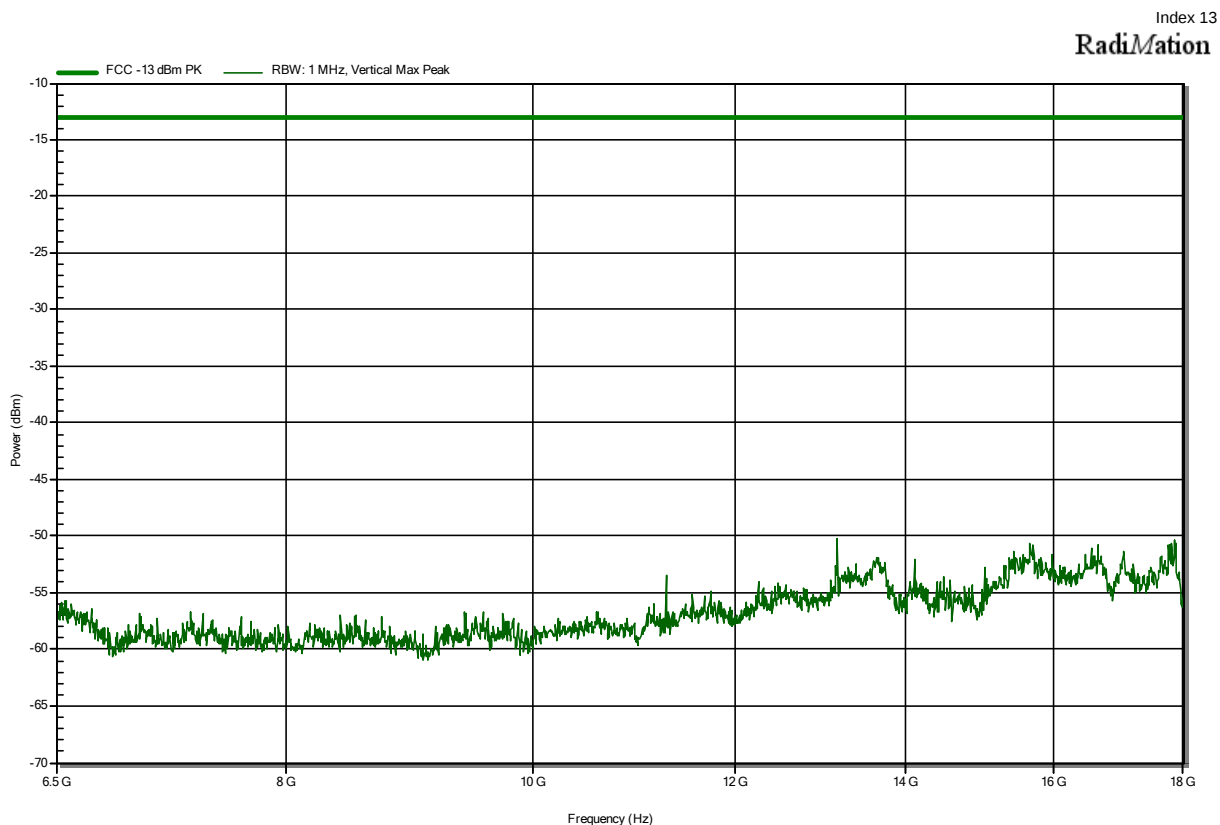
Radiated Spurious Emissions according to 47 CFR Part 24 Subpart E, RSS-133, Issue 6

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Schwarzbeck HWRD 650, Horizontal
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 2_CH 18900 (1880.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-13
 Note: EUT vertical



Radiated Spurious Emissions according to 47 CFR Part 24 Subpart E, RSS-133, Issue 6

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
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 Measurement software: RadiMation, version 2020.1.8
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 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 2_CH 18900 (1880.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-13
 Note: EUT vertical

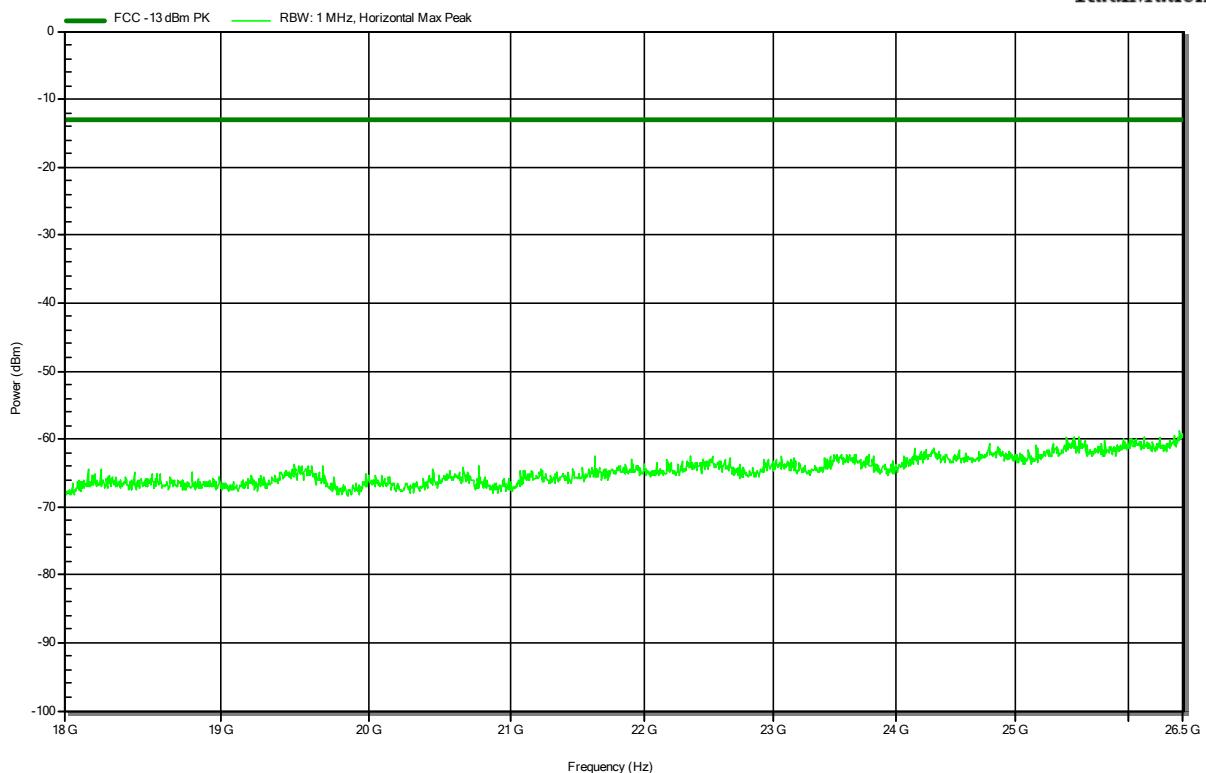


Radiated Spurious Emissions according to 47 CFR Part 24 Subpart E, RSS-133, Issue 6

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Amplifier Research AT4560, Horizontal
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 2_CH 18900 (1880.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-13
 Note: EUT vertical

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RadiMation

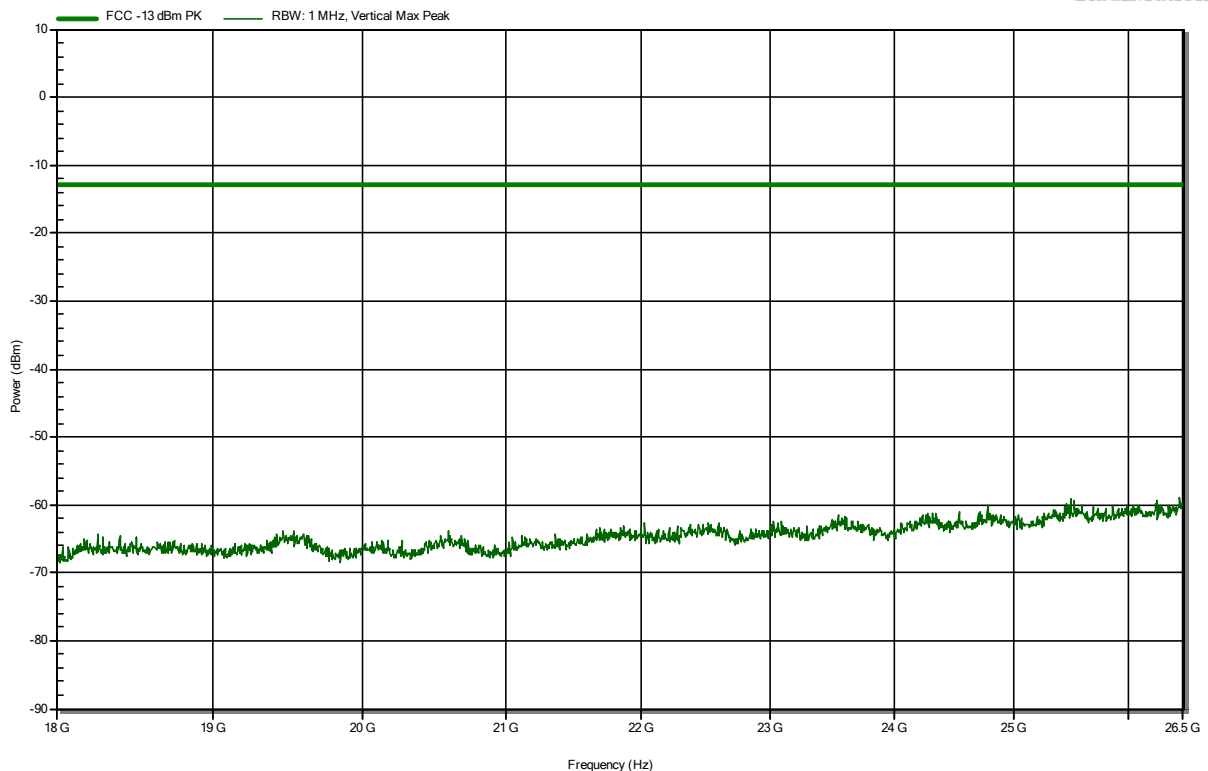


Radiated Spurious Emissions according to 47 CFR Part 24 Subpart E, RSS-133, Issue 6

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Amplifier Research AT4560, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 2_CH 18900 (1880.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-13
 Note: EUT vertical

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RadiMation

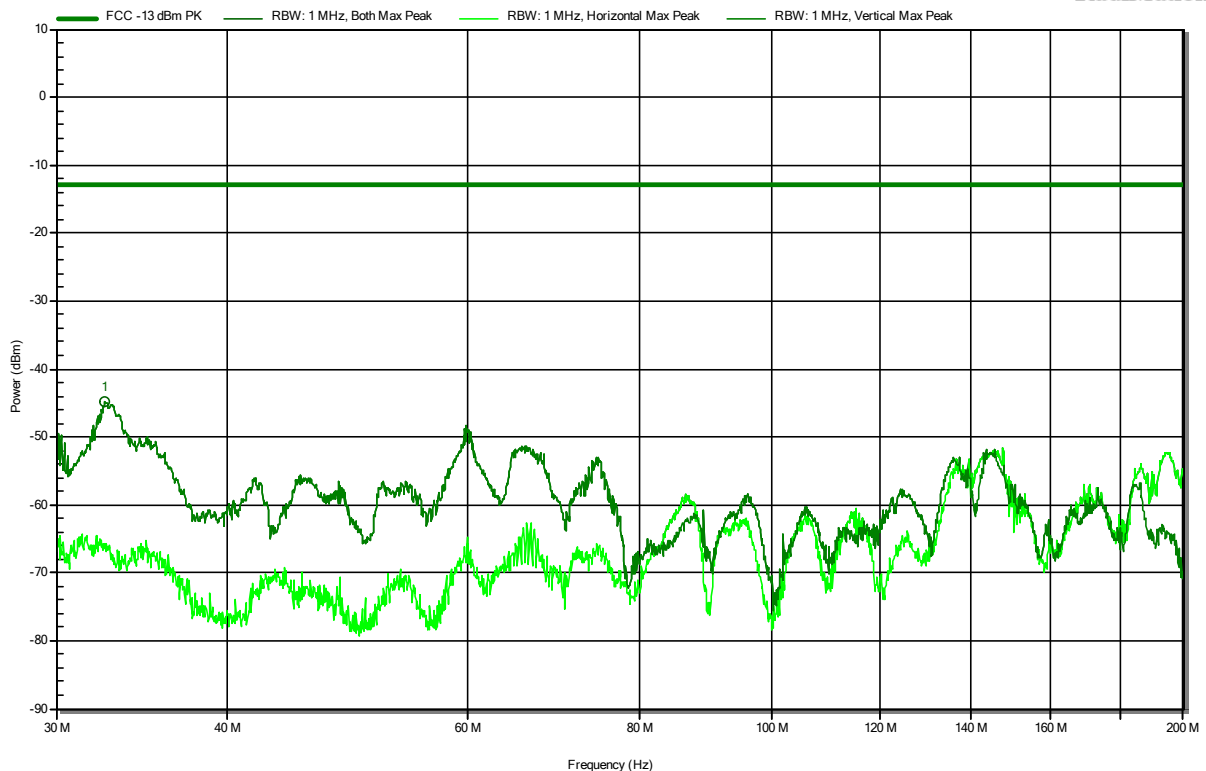


Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 4_CH 20375 (1752.5MHz)_QPSK_BW5_RB1 start 12
 Test Date: 2021-12-13
 Note: EUT vertical

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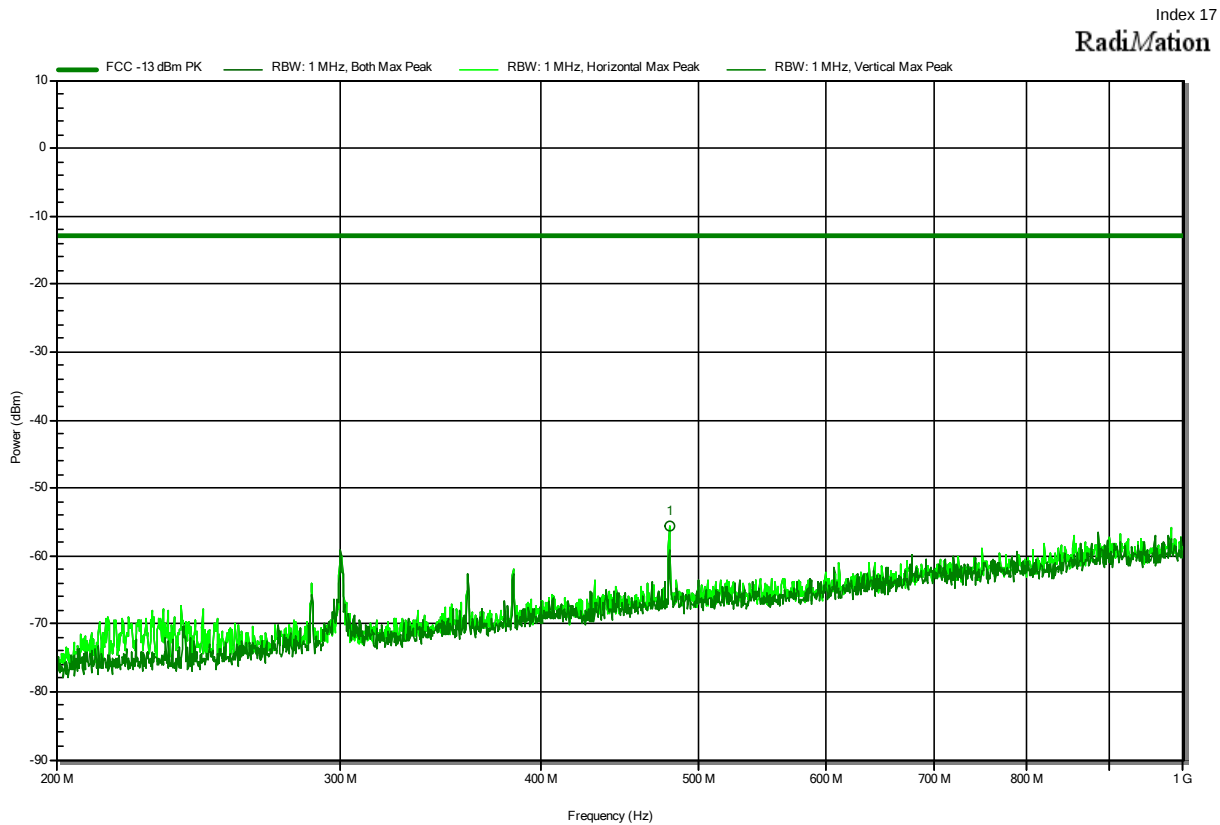
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
32.597 MHz	-44.7 dBm	-13 dBm	-31.73 dB	Pass

Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 4_CH 20375 (1752.5MHz)_QPSK_BW5_RB1 start 12
 Test Date: 2021-12-13
 Note: EUT vertical

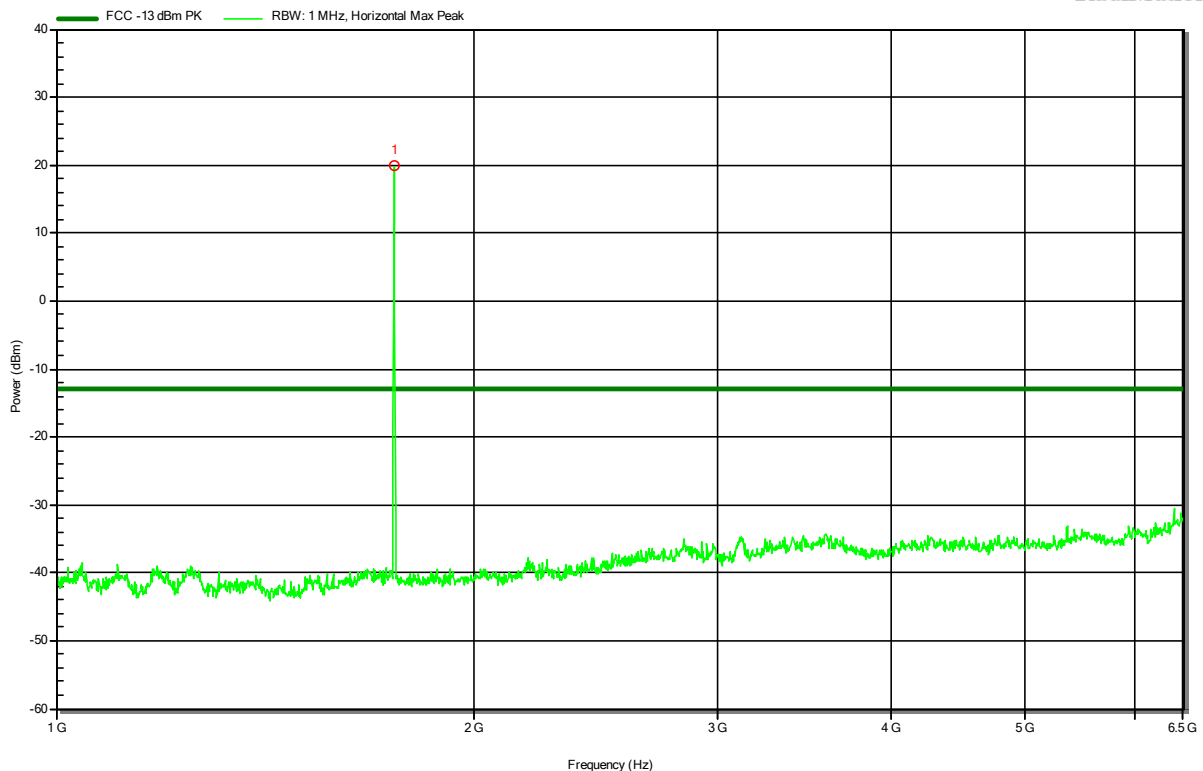


Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Schwarzbeck BBHA 9120B, Horizontal
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 4_CH 20375 (1752.5MHz)_QPSK_BW5_RB1 start 12
 Test Date: 2021-12-10
 Note: EUT vertical

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RadiMation



Frequency
 1.753 GHz

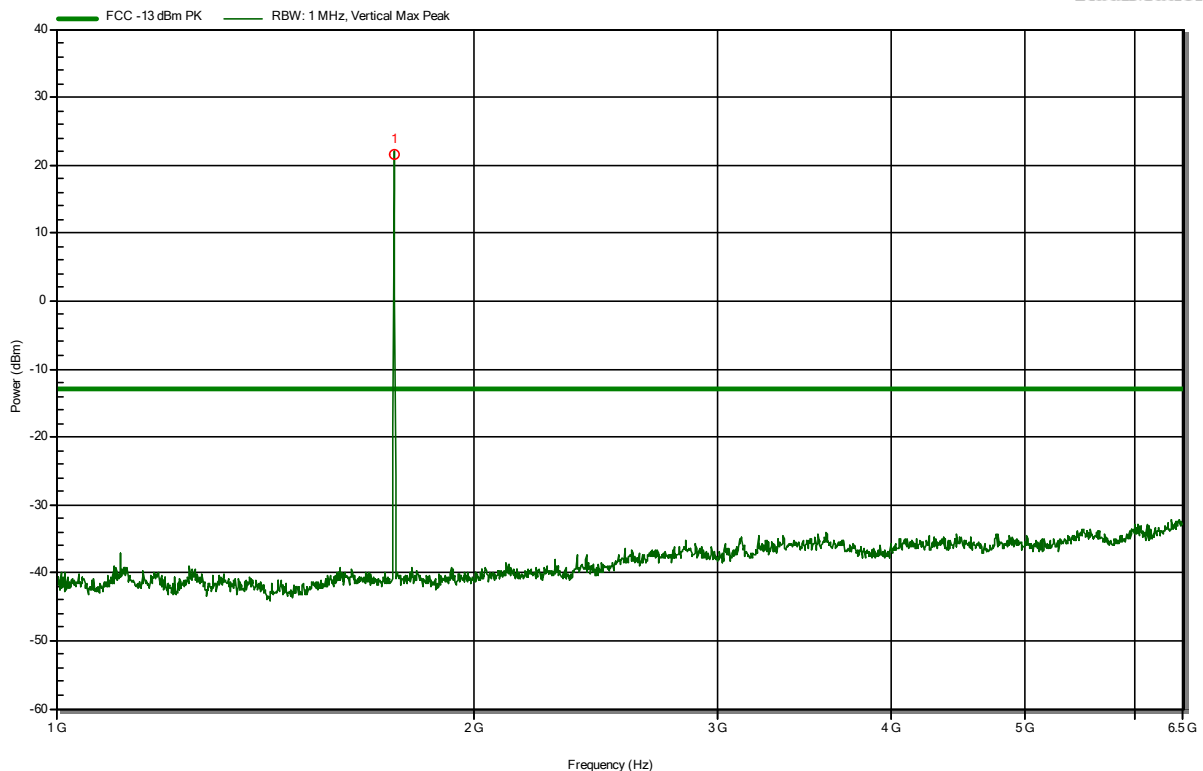
Uplink Carrier

Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Schwarzbeck BBHA 9120B, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 4_CH 20375 (1752.5MHz)_QPSK_BW5_RB1 start 12
 Test Date: 2021-12-10
 Note: EUT vertical

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RadiMation

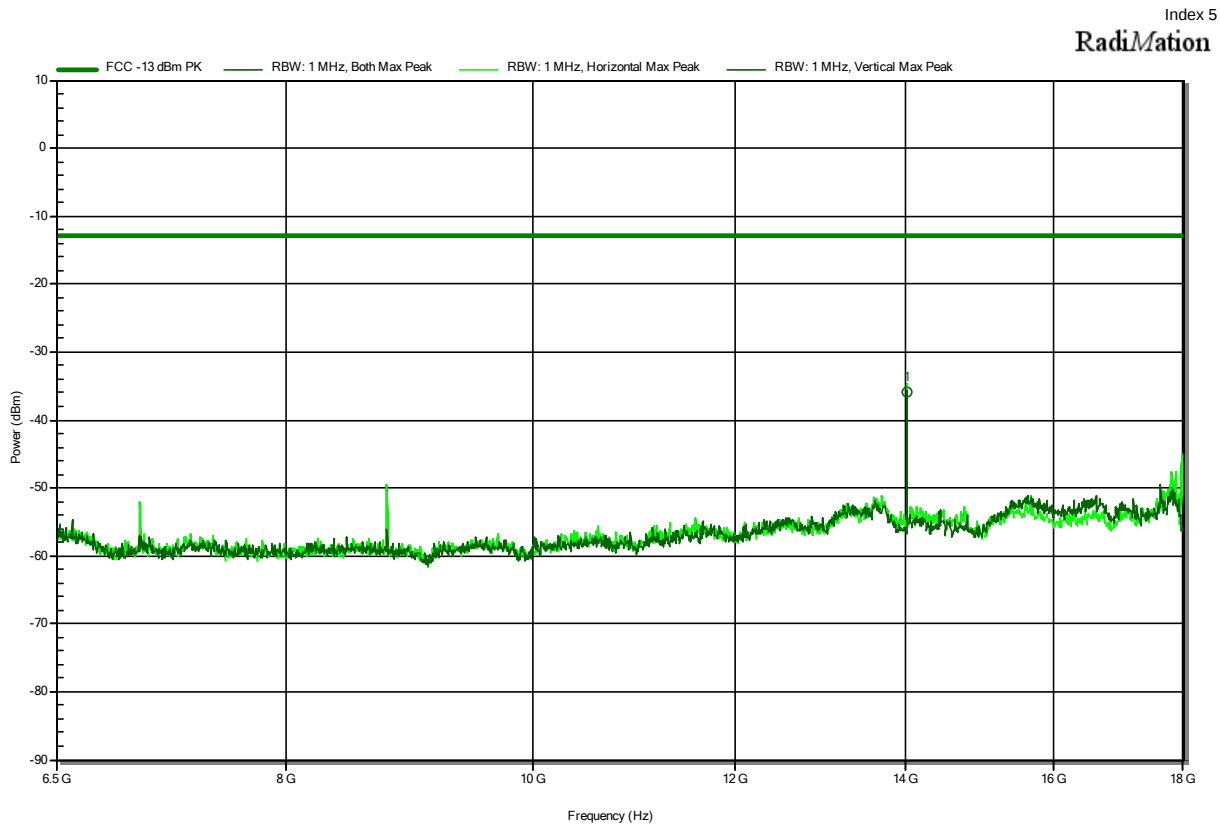


Frequency
1.753 GHz

Carrier Uplink

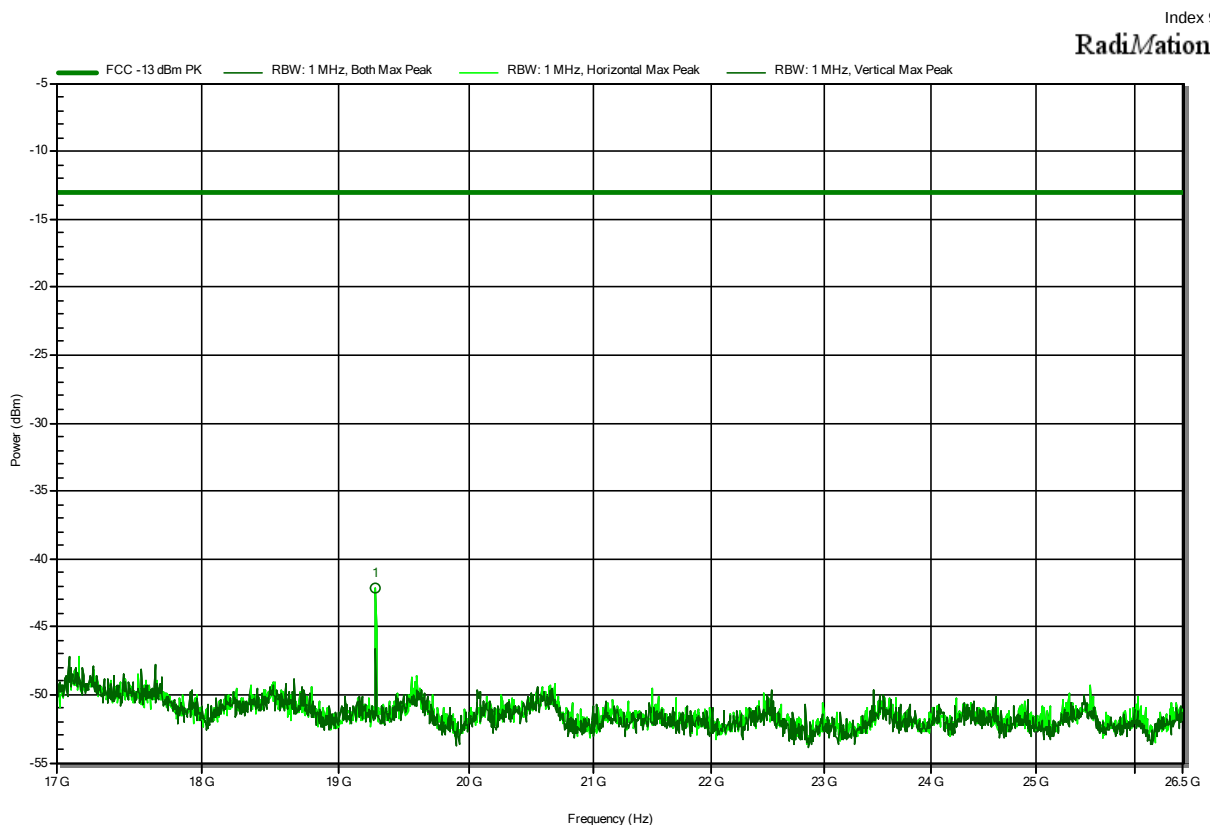
Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 4_CH 20375 (1752.5MHz)_QPSK_BW5_RB1 start 12
 Test Date: 2021-12-10
 Note: EUT vertical



Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

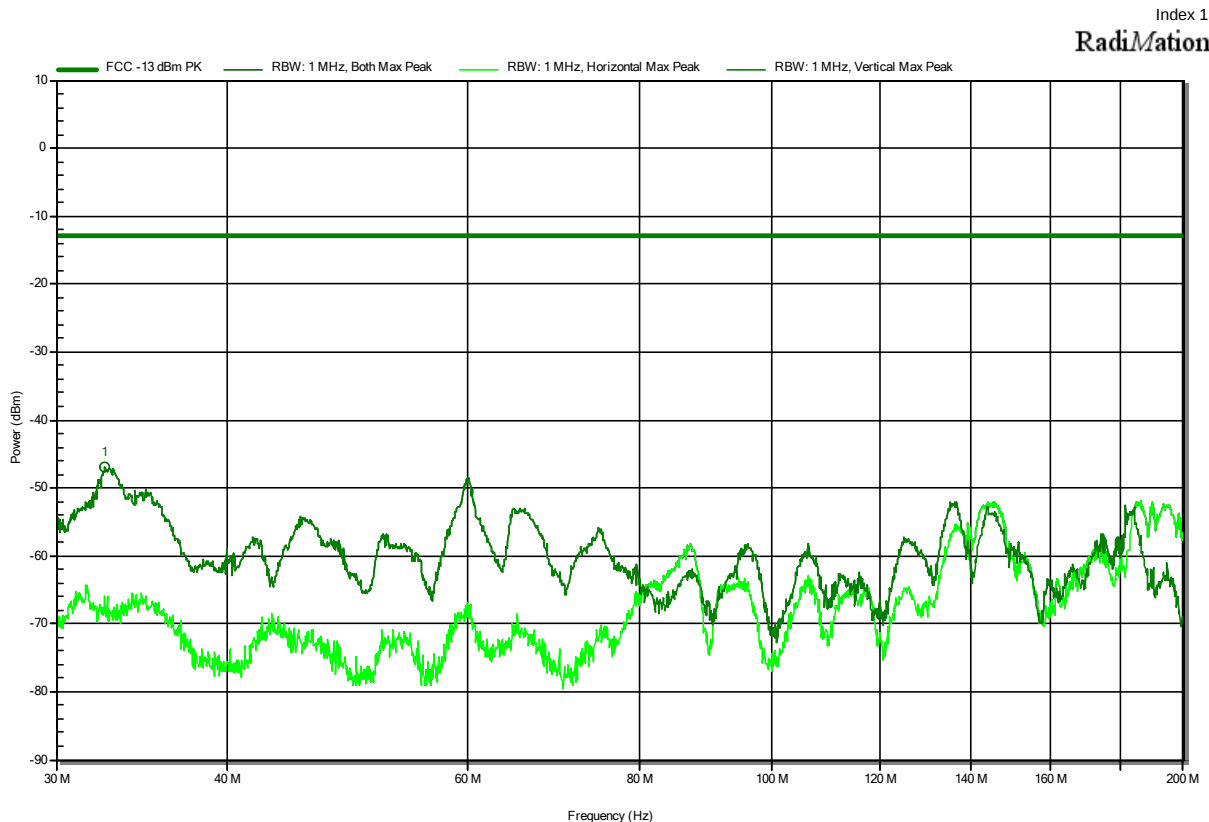
Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Amplifier Research AT4560, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 4_CH 20375 (1752.5MHz)_QPSK_BW5_RB1 start 12
 Test Date: 2021-12-10
 Note: EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
19.279 GHz	-42.2 dBm	-13 dBm	-29.18 dB	Pass

Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-130, Issue 2

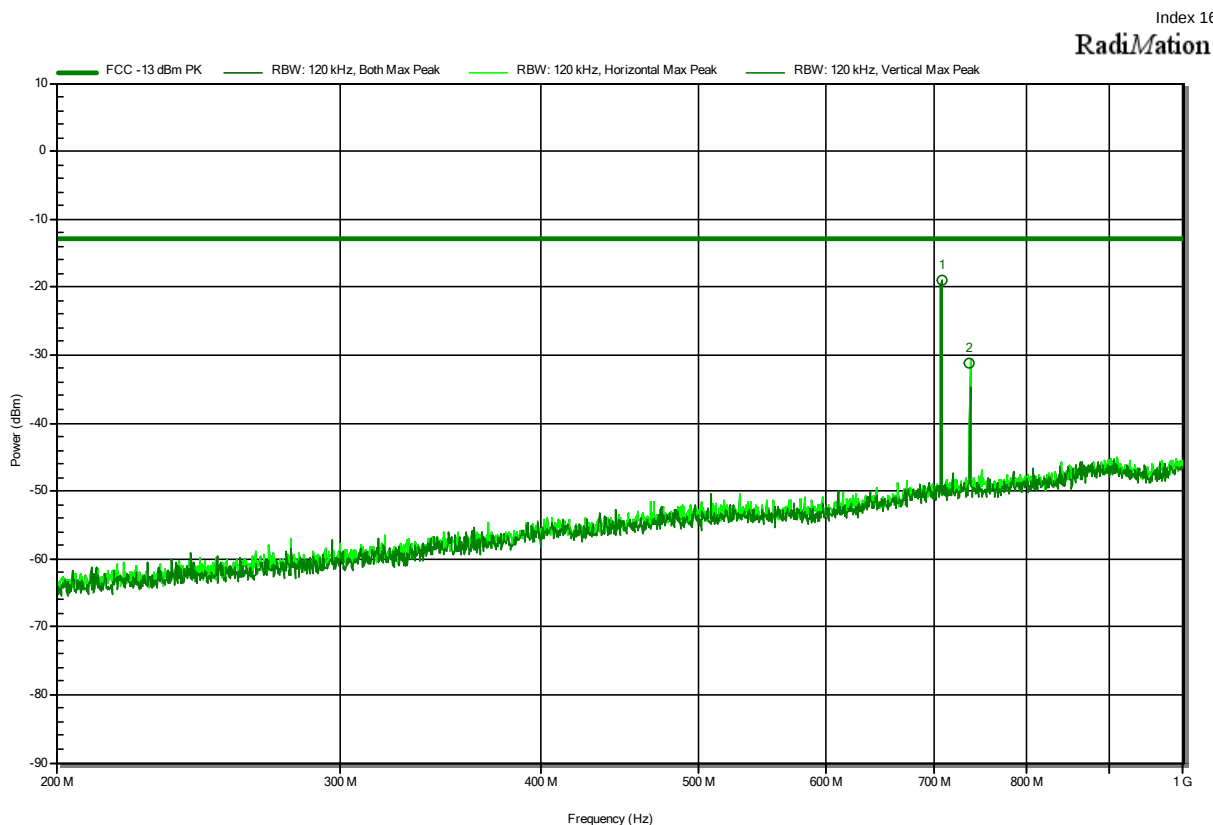
Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 12_CH 23173 (715.3MHz)_QPSK_BW1.4_RB1 start2
 Test Date: 2021-12-13
 Note: EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
32.584 MHz	-47 dBm	-13 dBm	-33.95 dB	Pass

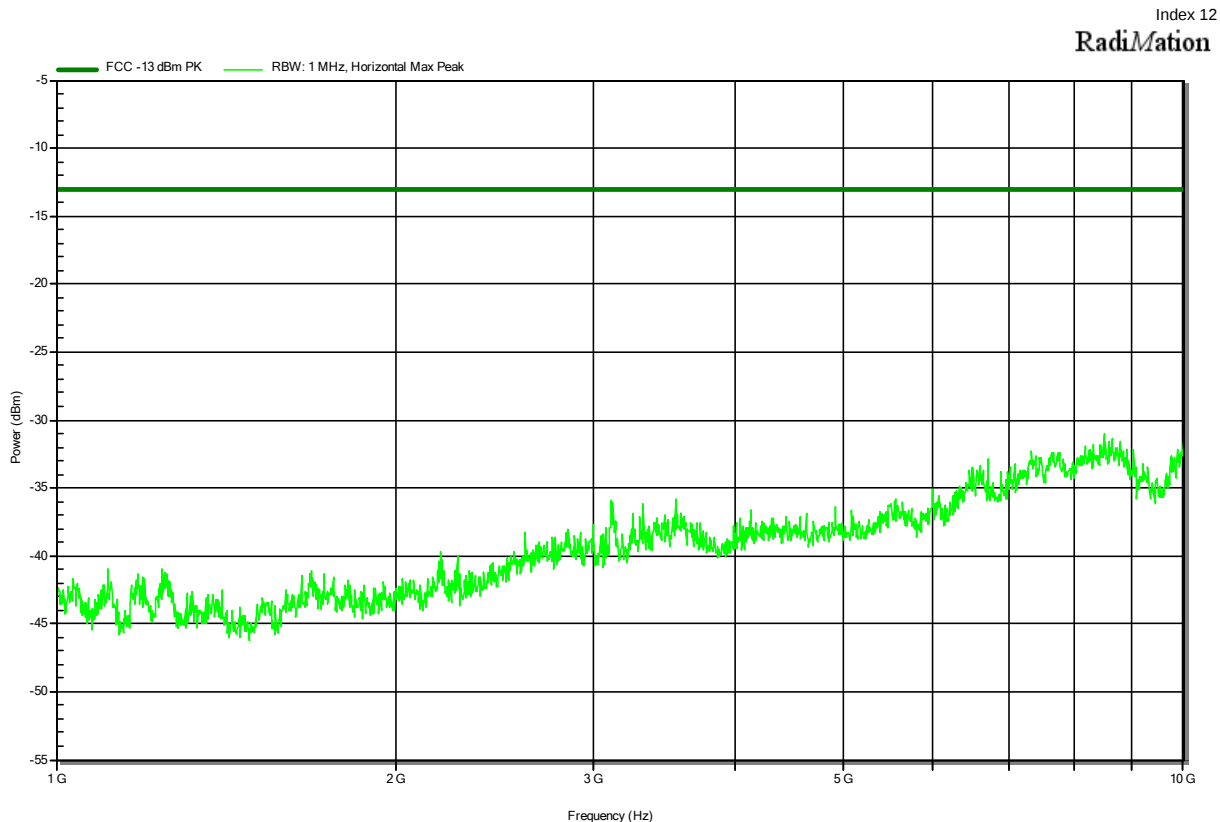
Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-130, Issue 2

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 12_CH 23173 (715.3MHz)_QPSK_BW1.4_RB1 start2
 Test Date: 2021-12-13
 Note: EUT vertical



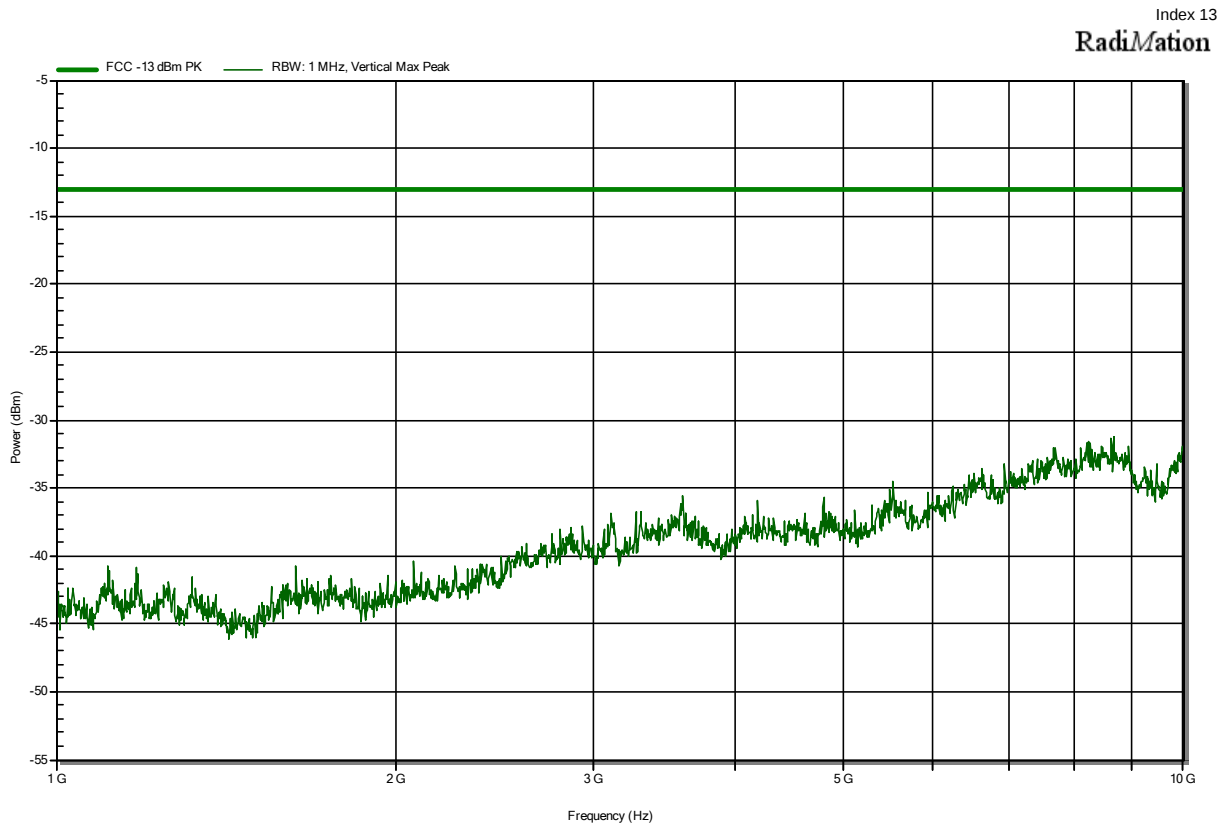
Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-130, Issue 2

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Schwarzbeck BBHA 9120B, Horizontal
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 12_CH 23173 (715.3MHz)_QPSK_BW1.4_RB1 start2
 Test Date: 2021-12-13
 Note: EUT vertical



Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-130, Issue 2

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Schwarzbeck BBHA 9120B, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 12_CH 23173 (715.3MHz)_QPSK_BW1.4_RB1 start2
 Test Date: 2021-12-13
 Note: EUT vertical

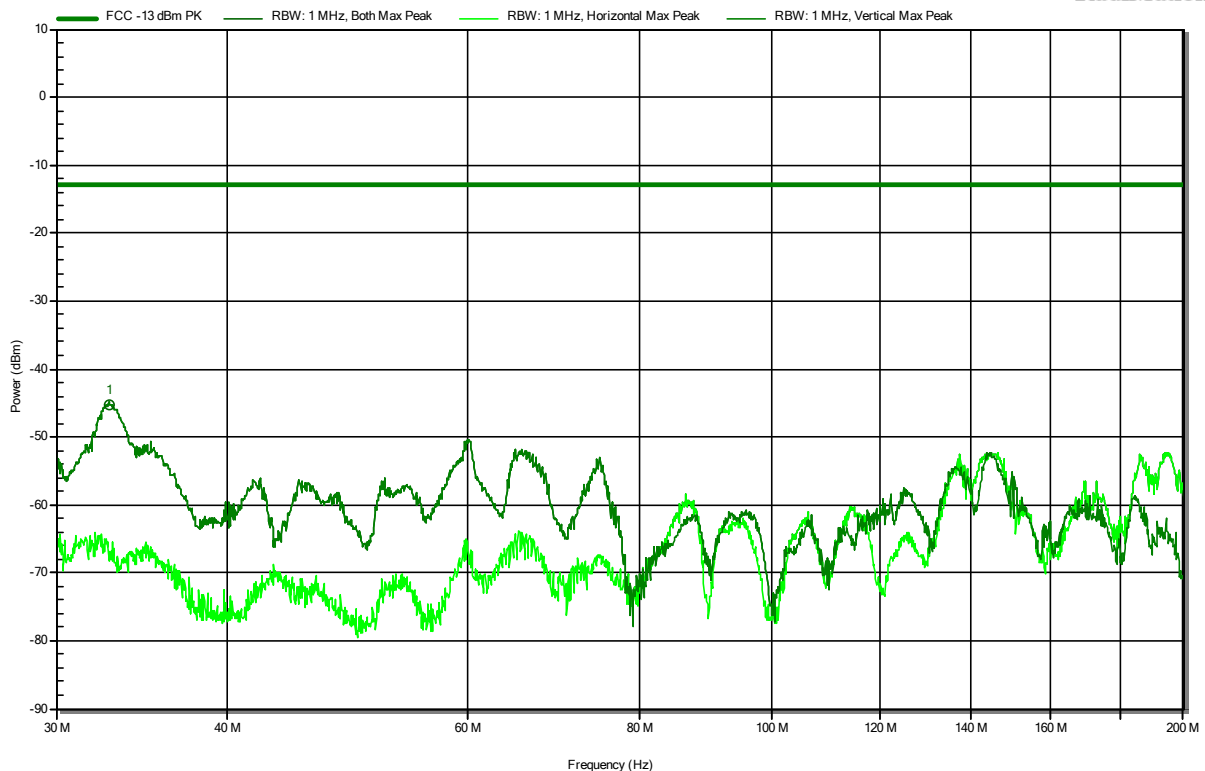


Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
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 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 66_CH 132322 (1745.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-13
 Note: EUT vertical

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RadiMation



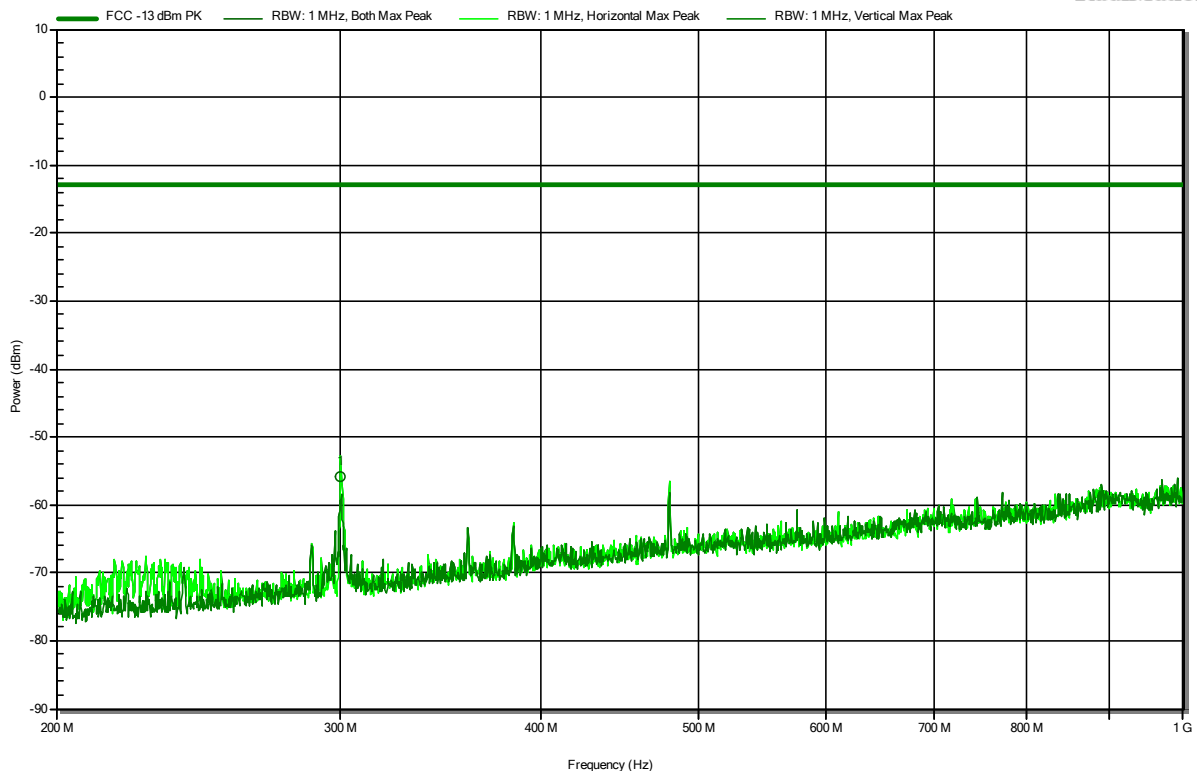
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
32.86 MHz	-45.3 dBm	-13 dBm	-32.25 dB	Pass

Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

Project Number: G0M-2110-1107
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 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 66_CH 132322 (1745.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-13
 Note: EUT vertical

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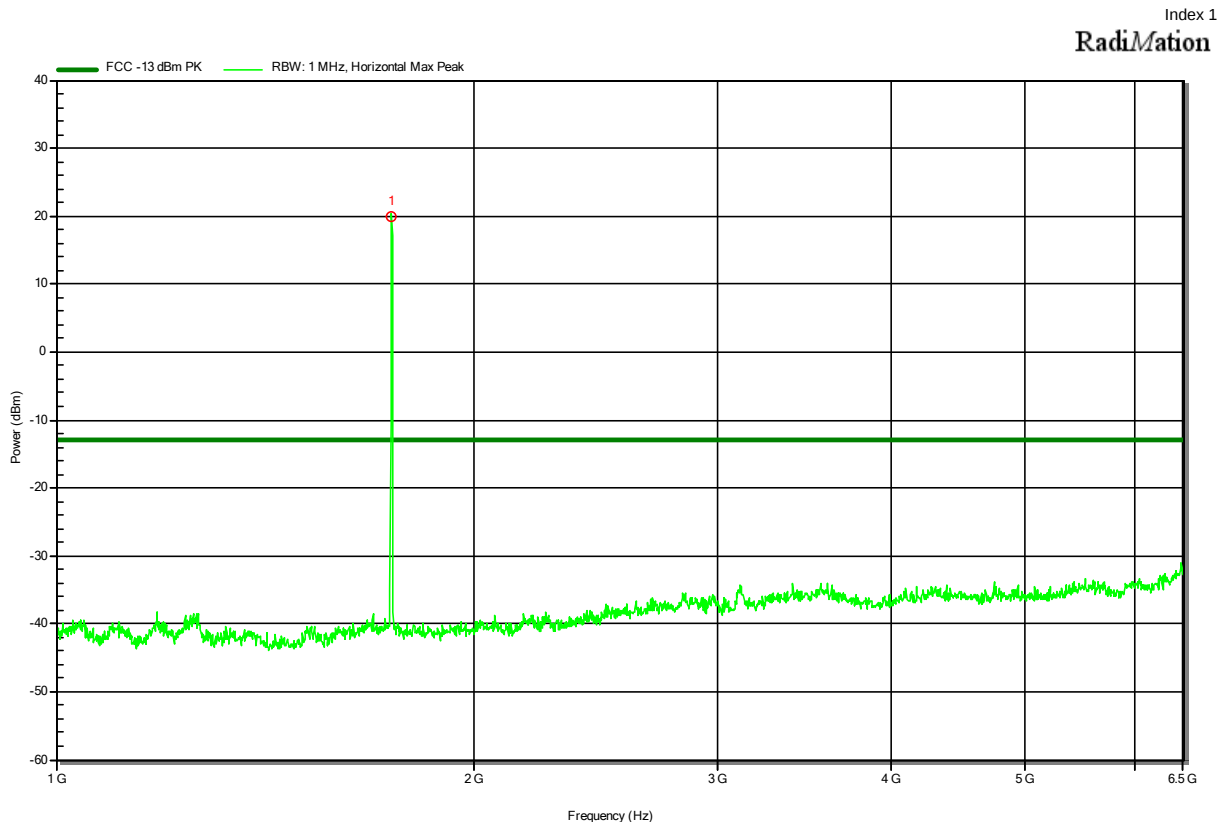
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
300.16 MHz	-55.8 dBm	-13 dBm	-42.8 dB	Pass

Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

Project Number: G0M-2110-1107
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 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
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 Antenna: Schwarzbeck BBHA 9120B, Horizontal
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 66_CH 132322 (1745.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-10
 Note: EUT vertical

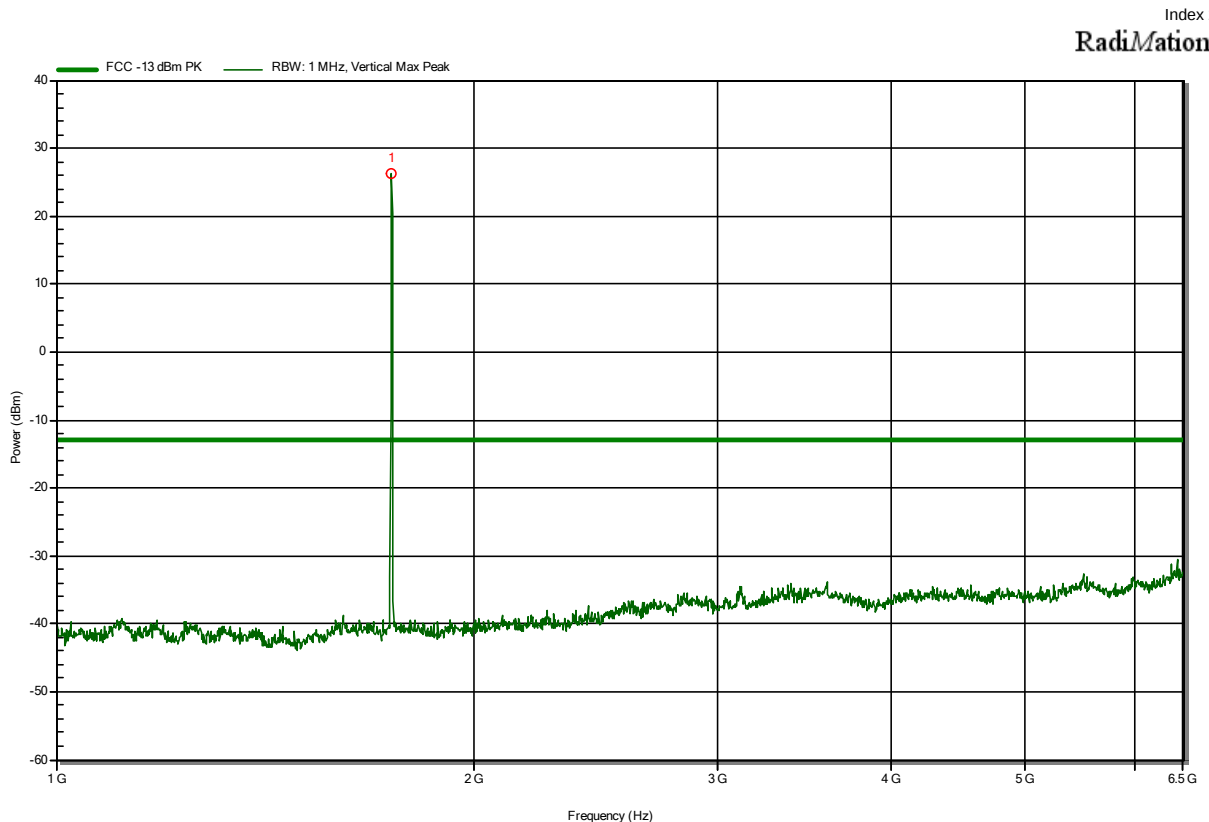


Frequency
 1.745 GHz

Uplink Carrier

Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Measurement software: RadiMation, version 2020.1.8
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 Antenna: Schwarzbeck BBHA 9120B, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 66_CH 132322 (1745.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-10
 Note: EUT vertical

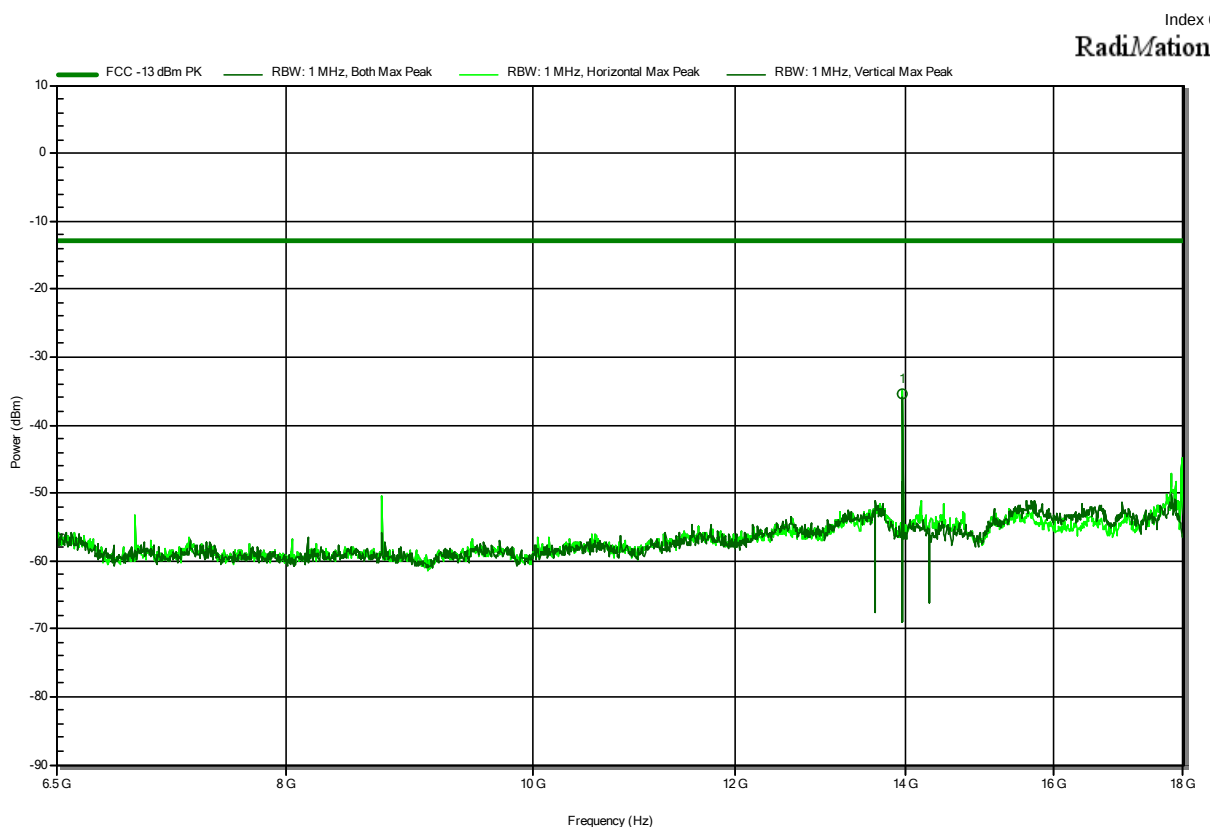


Frequency
 1.745 GHz

Uplink Carrier

Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

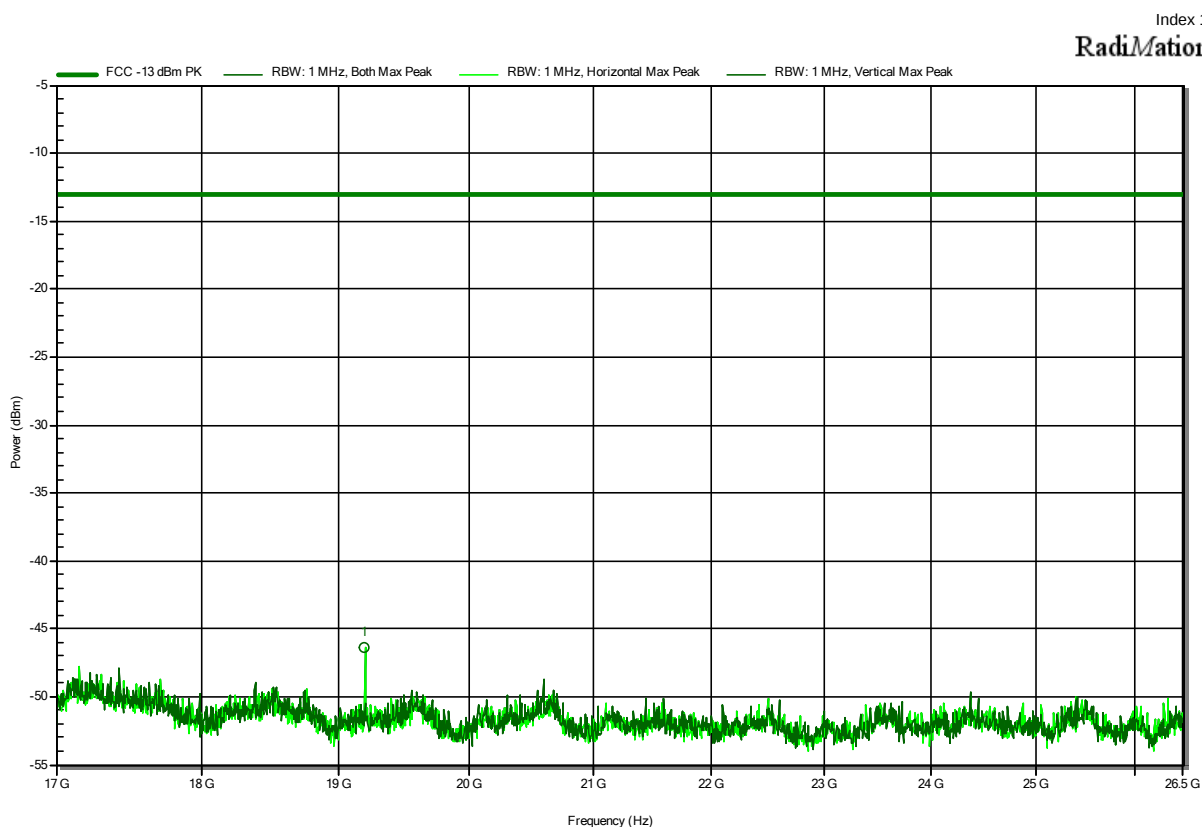
Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
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 Measurement software: RadiMation, version 2020.1.8
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 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 66_CH 132322 (1745.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-10
 Note: EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
13.962 GHz	-35.4 dBm	-13 dBm	-22.36 dB	Pass

Radiated Spurious Emissions according to 47 CFR Part 27 Subpart C, RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Amplifier Research AT4560, Vertical
 Measurement distance: 3 m
 Mode: Tx; LTE FDD 66_CH 132322 (1745.0MHz)_QPSK_BW3_RB1 start7
 Test Date: 2021-12-10
 Note: EUT vertical

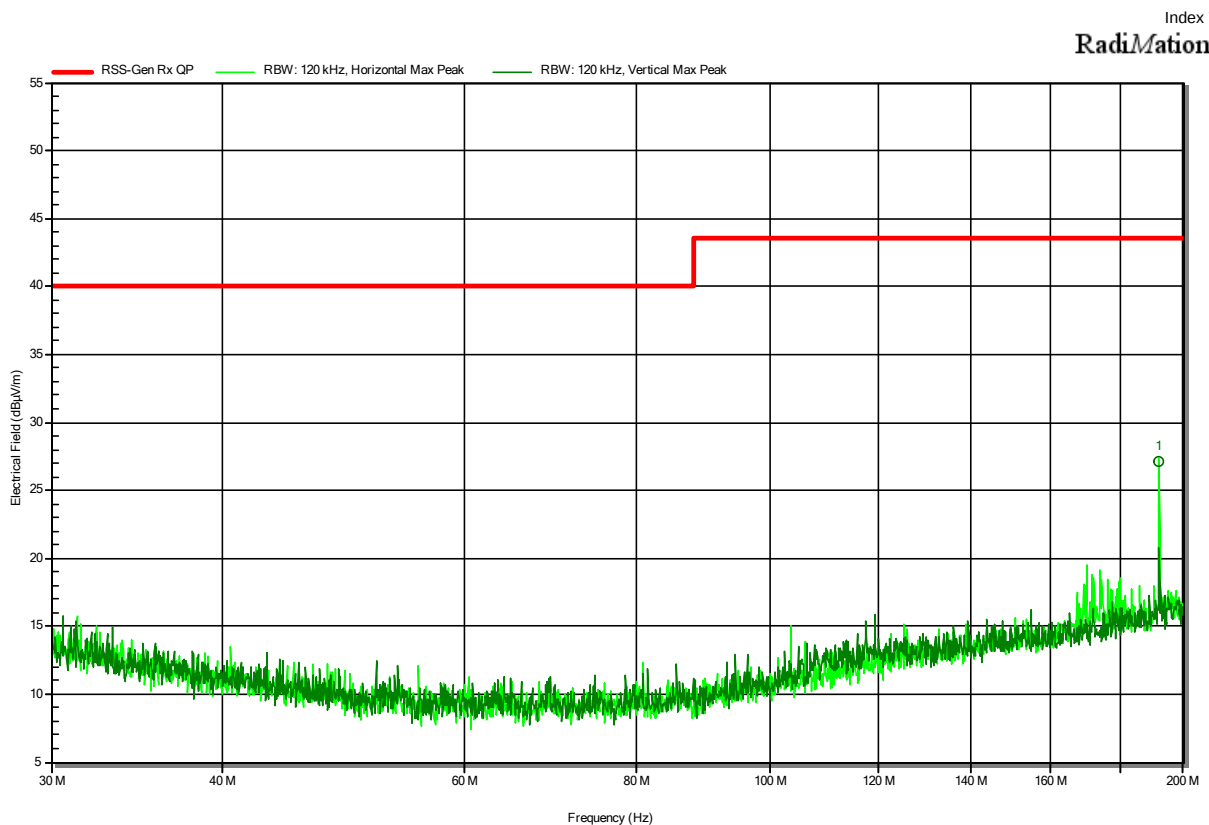


Frequency	Peak	Peak Limit	Peak Difference	Peak Status
19.197 GHz	-46.4 dBm	-13 dBm	-33.43 dB	Pass

ANNEX B Receiver radiated emissions

Radiated Spurious Emissions according to RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Rx; LTE FDD 66_CH 66786 (2145.0 MHz)_QPSK_BW5_RB0
 Test Date: 2021-12-13
 Note: EUT vertical



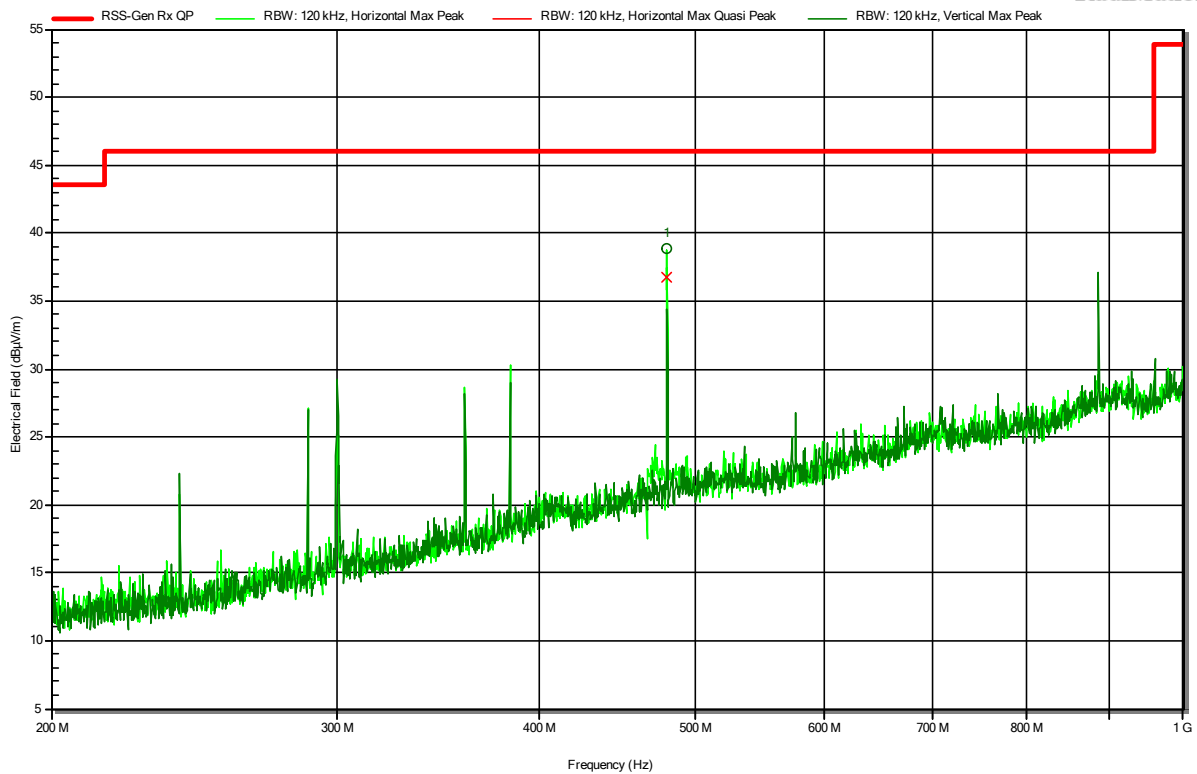
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
192.0058 MHz	27.2 dBµV/m	43.5 dBµV/m	-16.35 dB	Pass	Horizontal

Radiated Spurious Emissions according to RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Rx; LTE FDD 66_CH 66786 (2145.0 MHz)_QPSK_BW5_RB0
 Test Date: 2021-12-13
 Note: EUT vertical

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RadiMation



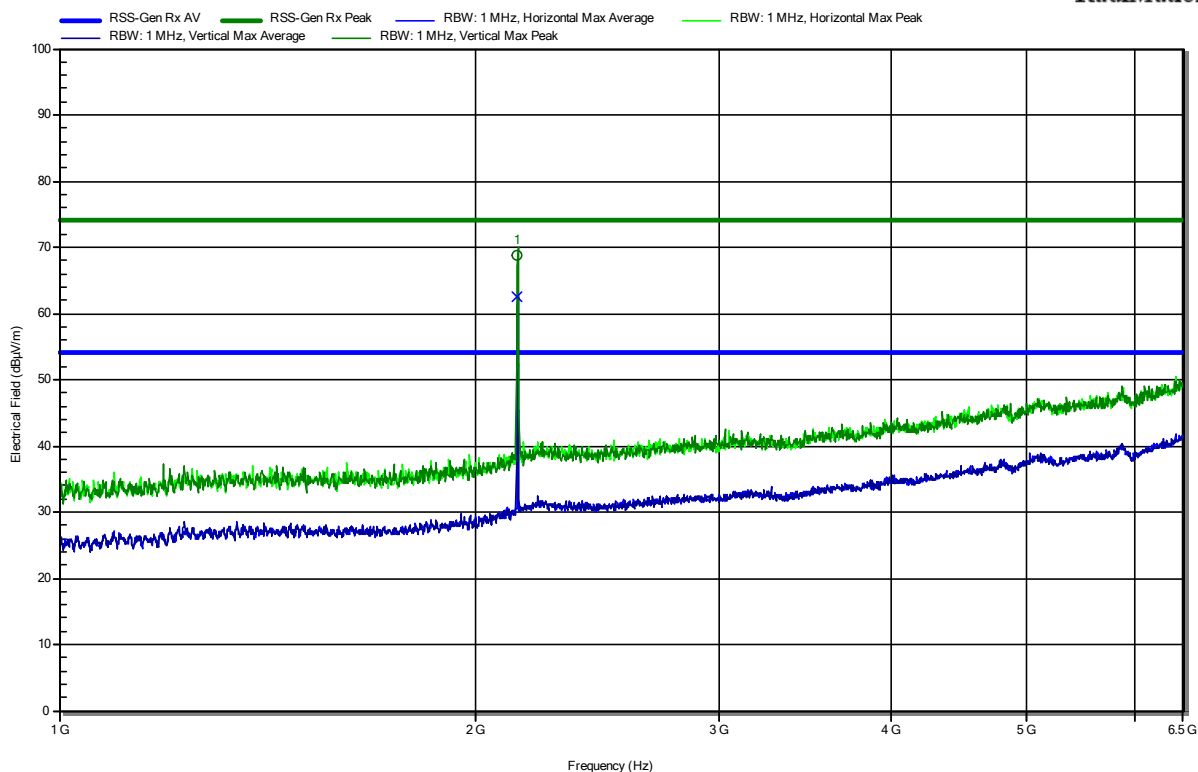
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
479.9986 MHz	38.9 dBµV/m	46 dBµV/m	-7.14 dB	Pass	Horizontal

Radiated Spurious Emissions according to RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Rx; LTE FDD 66_CH 66786 (2145.0 MHz)_QPSK_BW5_RB0
 Test Date: 2021-12-16
 Note: EUT vertical
 Marker 1 : downlink

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RadiMation



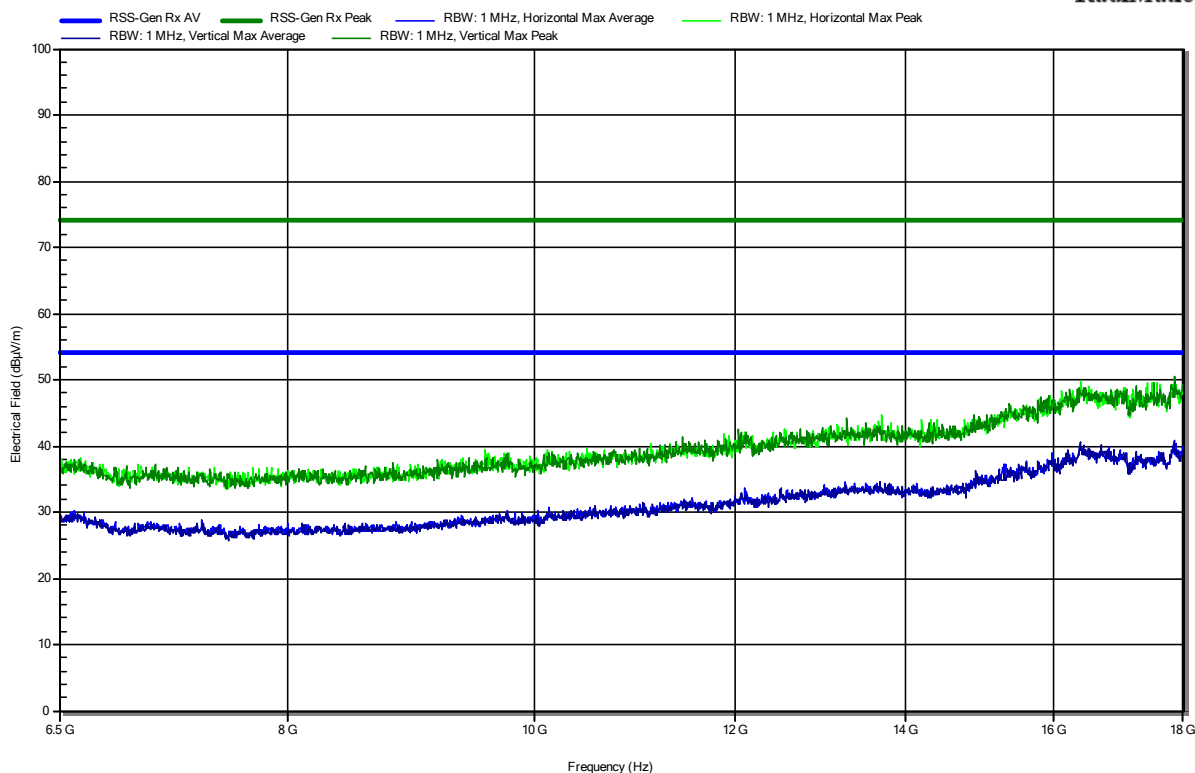
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.145 GHz				downlink	

Radiated Spurious Emissions according to RSS-139, Issue 3

Project Number: G0M-2110-1107
 Applicant: Exelonix GmbH
 Model Description: Internet USB device for connection with a laptop like host device
 Model: USB Connect 4G - NF
 Test Sample ID: 37138 (IMEI: 354328097161977)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5.0 V DC (USB-Port)
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Rx; LTE FDD 66_CH 66786 (2145.0 MHz)_QPSK_BW5_RB0
 Test Date: 2021-12-16
 Note: EUT vertical

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RadiMation



== = END OF TEST REPORT == =