DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía,
c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España
C.I.F. A29 507 456

Test report No:
NIE: 67313REM.001

Test report

FCC Rules and Regulations CFR 47, Part 15, Subpart B (10-1-19 Edition) & ICES-003 Issue 7 (October 2020)

(*) Identification of item tested	Vaisala Beacon Station BWS500
(*) Trademark	BSW500
(*) Model and /or type reference	EGW501
Other identification of the product	FCC ID: 2AO39-EGW501 IC: 23830-EGW501 HW version: D SW version: V0708_01.002.01.002
(*) Features	GSM, WCDMA, LTE
Manufacturer	Vaisala Oyj Vanha Nurmijärventie 21, 01670 Vantaa. FINLAND.
Test method requested, standard	FCC Rules and Regulations CFR 47, Part 15, Subpart B (10-1-19 Edition) & ICES-003 Issue 7 (October 2020)
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Rafael López Martín EMC Consumer & RF Lab. Manager 2021.03.22 10:01:55 +01'00'
Date of issue	2021-03-22
Report template No	FDT08_23 (*) “Data provided by the client”

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Acronyms

Acronym ID	Acronym Description
Avg	Radiated Average Level
Az	Azimuth
Code	EMC Test Code
Freq	Frequency
Freq Rng	Frequency Range
H	Height
Line	Conducted Emissions - Tested Line
MP	Measurement Point
MaxPeak	Radiated Maximum Peak Level
OM	Operation Mode
Pol	Polarization
QuasiPeak	Radiated Quasi Peak Level
S/	Sample
V	Verdict

Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.A.U. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.A.U. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.A.U. at the time of performance of the test.

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The results presented in this Test Report apply only to the particular item under test established in this document.

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Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

The total uncertainty of the measurement system for the measured conducted disturbance characteristics of EUT from 150 kHz to 30 MHz is I = ± 3,9 dB for quasi-peak measurements, I = ± 3,2 dB for peak measurements (k = 2).

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 30 MHz to 1000 MHz is I = ± 4,9 dB for quasi-peak measurements, I = ± 4,6 dB for peak measurements (k= 2).

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 1000 MHz to 17 GHz is I = ± 2,6 dB for peaks and average measurements (k = 2).

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested"

2. The sample consists of a compact weather station (Vaisala Beacon Station BWS500) for environmental monitoring. The complete solution provides measurements, data collection, and data visualization in one package. Vaisala Beacon Station includes Vaisala Beacon Edge Gateway EGW501, a multi parameter Vaisala Weather Transmitter WXT536, powering equipment, and mounting accessories. To maximize ease-of-use, the station comes with a data plan and a variety of service packages to choose from.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Id	Control Number	Description	Model	Serial Nº	Date of Reception	Application
S/01	67313_02	Edge Gateway	EGW501	S5053426	2021-02-02	Element Under Test
S/01	65531_06	Weather Transmitter	WXT536	S3240235	2020-10-01	Element Under Test
S/01	65531_14	Load	--	--	2020-10-01	Auxiliary Element
S/01	65531_17	DC out cable	--	--	2020-10-01	Element Under Test
S/01	65531_21	DC in cable	--	--	2020-10-01	Element Under Test
S/01	65531_38	Power Supply Unit	PSU501	S3926080	2020-10-14	Element Under Test
S/01	65531_39	Power Cable	--	--	2020-10-14	Element Under Test

Notes referenced to samples during the project.

Test sample description

Ports…… :	Port name and description	Cable			
		Specified max length [m]	Attached during test	Shielded	Coupled to patient(3)
	PSU501	2	[X]	[ ]	[ ]
	PSU502	2	[X]	[ ]	[ ]
	WXT	10	[X]	[X]	[ ]
Supplementary information to the ports…… :	Connecting power cable to gateway turns station automatically on if power is available from battery or other power source. Other ports reserved future use.				

Rated power supply .....:	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[X]	AC: 100 - 240 Vac	[X]	[X]	[ ]	[ ]	[X]
	[X]	DC: 9 - 32 Vdc					

Rated Power .....:	N/A
Clock frequencies.....:	max. 2GHz
Other parameters .....:	N/A
Software version .....:	V0708_01.002.01.002
Hardware version .....:	D
Dimensions in cm (W x H x D) ....:	306 x 184 x 156

Mounting position .....:	[ ]	Table top equipment
	[X]	Wall/Ceiling mounted equipment
	[ ]	Floor standing equipment
	[ ]	Hand-held equipment
	[ ]	Other: .....

Modules/parts.....:	Module/parts of test item	Type	Manufacturer
	.....	.....	.....
	Description	Type	Manufacturer

Accessories (not part of the test item) .....:	PSU501, AC power supply	PSU501	Vaisala Oyj
	PSU502, DC solar power supply	PSU502	Vaisala Oyj
	WXT536,Weather transmitter	WXT536	Vaisala Oyj
Documents as provided by the applicant.....:	Description	File name	Issue date
	.....	.....	.....

(3) Only for Medical Equipment

Identification of the client

Vaisala Oyj
Vanha Nurmijärventie 21,
01670 Vantaa. FINLAND.

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2021-02-09
Date (finish)	2021-02-19

Document history

Report number	Date	Description
67313REM.001	2021-03-22	First release

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 20 % Max. = 75 %

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 20 % Max. = 75 %

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 20 % Max. = 75 %

Remarks and comments

The tests have been performed by the technical personnel: Antonio Manuel Sánchez Carrizo and Lorena Oviedo Aranda.

Testing verdicts

Fail	F
Inconclusive	I
Not applicable	N/A
Not measured	N/M
Pass	P

List of equipment used during the test

Nº de Control / Control Number	Descripción / Description	Modelo / Model	Fabricante / Manufacturer	Próxima Calibración / Next Calibration
3545	USB TEMPERATURE AND HUMIDITY SENSOR	HUMIDIPROBE	PICO TECHNOLOGY	2021-04-22
4523	EMI TEST RECEIVER 20Hz-26.5GHz	ESU26	ROHDE AND SCHWARZ	2023-03-15
4612	HORN ANTENNA 1-18GHz	BBHA 9120 D	SCHWARZBECK MESS-ELEKTRONIK	2021-06-14
5641	HYBRID BILOG ANTENNA 30MHz-6GHz	3142E	ETS LINDGREN	2021-07-31
6064	SEMIANECHOIC ABSORBER LINED CHAMBER III	SAC-3	Frankonia	---
6126	ETHERNET TEMPERATURE AND HUMIDITY LOGGER	HWg-STE	HW GROUP	2021-04-17
6132	ETHERNET TEMPERATURE AND HUMIDITY LOGGER	HWg-STE	HW GROUP	2021-04-20
6195	PRE-AMPLIFIER G>55dB 1-18GHz	AMF-7D-01001800-22-10P	NARDA	2021-05-19
6329	SHIELDED ROOM		FRANKONIA	---
7853	EMI RECEIVER 10Hz-30MHz	PMM 9010F	NARDA	2021-10-30
7859	THREE-PHASE ARTIFICIAL NETWORK 32A	PMM L3-32	NARDA	2021-11-20

Summary

Test Specification.	Requirement – Test case	Verdict	Remark
FCC CFR 47, Part 15, Subpart B & C (10-1-19 Edition) Secs. 15.107 and 15.207 & ICES-003 Issue 7 (October 2020). ANSI C63.4 (2014)	CE Continuous conducted emission	Pass	---
FCC CFR 47, Part 15, Subpart B (10-1-19 Edition) Secs. 15.109 & ICES-003 Issue 7 (October 2020) ANSI C63.4 (2014)	RE Radiated emission. Electromagnetic field measure	Pass	---
Supplementary information and remarks: None			

Appendix A: Test results

Appendix A context

DESCRIPTION OF THE OPERATION MODES 14
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CE CONDUCTED EMISSION 20

Description of the operation modes

The operation modes described in this paragraph constitute a functionality of the sample under test for itself. Every operation mode takes a failure criteria for the immunity test that they were applying to it and a monitoring to guarantee performance of the same ones.

The operation modes used by the samples to which the present report refers, are shown in the following table:

Id	Description
OM_01	EUT ON. MS in IDLE mode. LTE Band 2. Power supply: 115Vac, 60Hz.
OM_02	EUT ON. MS in traffic mode. LTE Band 2. Power supply: 115Vac, 60Hz.
OM_03	EUT ON. MS allocated a channel. GSM 850. Power supply: 115Vac, 60Hz.
OM_04	EUT ON. MS in traffic mode. WCDMA Band II. Power supply: 115Vac, 60Hz.
OM_05	EUT ON. MS in traffic mode. LTE Band 41. Power supply: 115Vac, 60Hz.

Test standards version applied

The product standards and test standards applied for each test cases are shown in the following table:

Product Test Standard	Test standard	Requirement – Test case
FCC CFR 47, Part 15, Subpart B (10-1-19 Edition) Secs. 15.109 & ICES-003 Issue 7 (October 2020).	ANSI C63.4 (2014)	RE Radiated emission.
FCC CFR 47, Part 15, Subpart B and C (10-1-19 Edition) Secs. 15.107 and 15.207 & ICES-003 Issue 7 (October 2020)	ANSI C63.4 (2014)	CE Conducted emission

Test Cases Details

FCC CFR 47, Part 15, Subpart B (10-1-19 Edition), Sec. 15.109 & ICES-003 Issue 7 (October 2020)

RE Radiated emission

Limits of interference Class B

The applied limit for radiated emissions, 3 m distance, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (10-1-19 Edition), Secs. 15.109 & ICES-003 Issue 7 (Updated 10-2020)

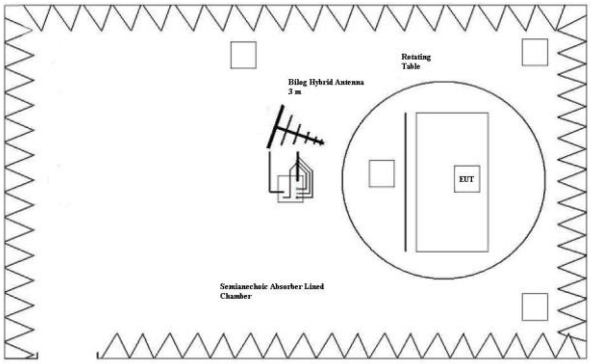
Table 2: Radiated emission limits

Frequency range (MHz)	FCC Part 15B Class B (3 m) Quasi-Peak (dBµV/m)	ICES-003 Issue 7 Limit for 3 m Quasi-Peak (dBµV/m)	FCC Part 15B & ICES-003 Issue 7	
			PK Limit for 3m (dBµV/m)	AVG Limit for 3m (dBµV/m)
30-88	40.0	40.0	---	---
88-216	43.5	43.5	---	---
216-230	46.0	46.0	---	---
230-960	46.0	47.0	---	---
960-1000	54.0	54.0	---	---
1 GHz – F_M	---	---	74	54

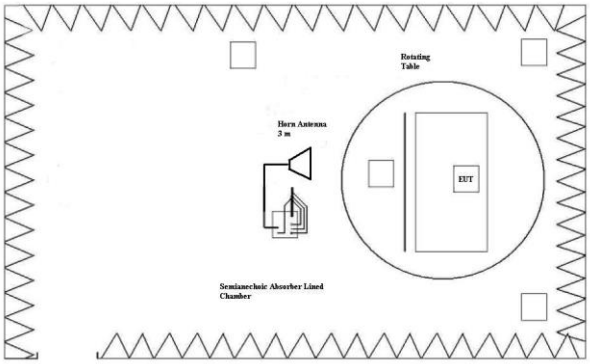
Above 1 GHz, except for outdoor units of home satellite receiving systems, the ITE or digital apparatus shall comply with the limits specified in table 2 up to the frequency F_M, which shall be determined as per table 3.

Table 3: Required highest measurement frequency for radiated emission

Highest internal Frequency (F_x)	Highest measurement Frequency (F_M)
$F_X \leq 108$ MHz	1 GHz
108 MHz < $F_X \leq 500$ MHz	2 GHz
500 MHz < $F_X \leq 1$ GHz	5 GHz
$F_X > 1$ GHz	5 x F_X up to a maximum of 40 GHz
*F_x is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.	



Setup for measurements < 1GHz.



Setup for measurements > 1GHz.

RESULTS

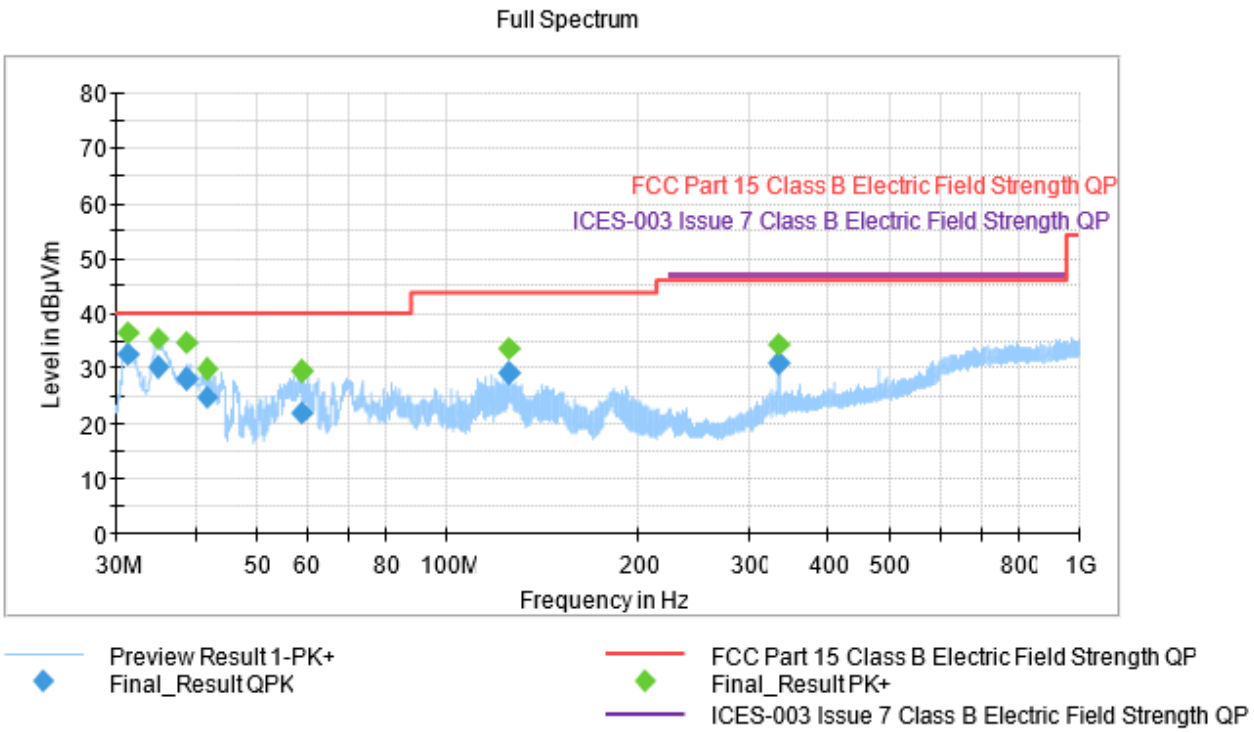
REmmnnRR	Description	Result
RE0101LR	Range: 30 MHz - 1000 MHz.(Worst case)	P
RE0101HR	Range: 1 GHz – 17 GHz. (Worst case)	P

REmmnnRR: RE: Radiated Emission; mm: Sample number; nn: Operation mode; RR: Measurement range.

VERDICT

Pass

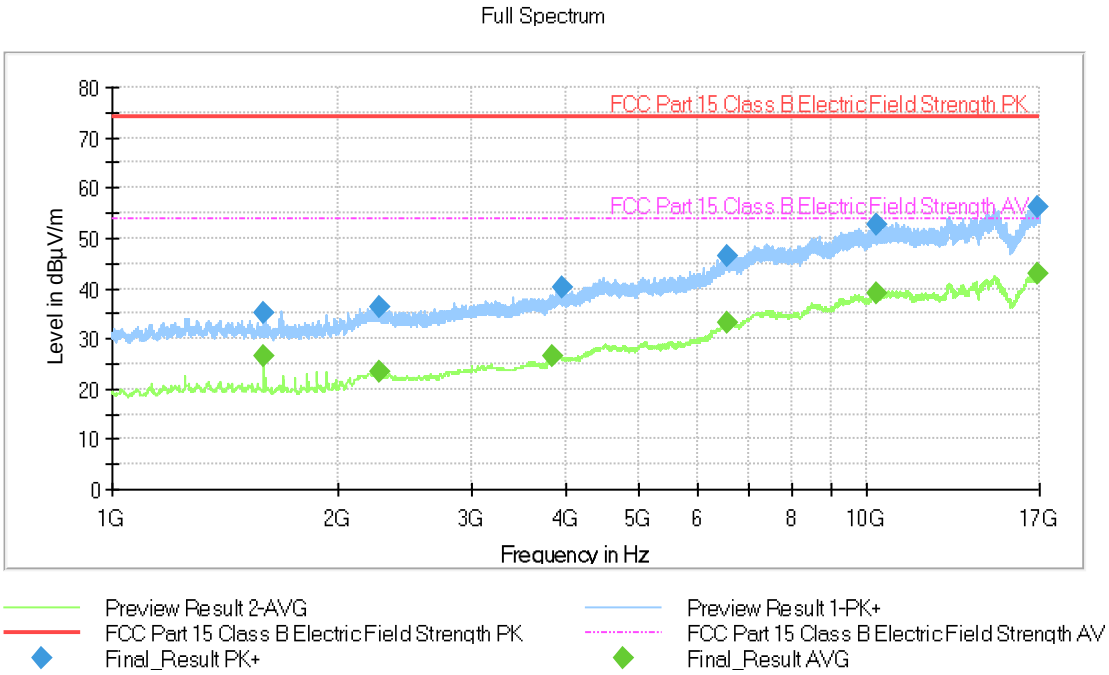
Project:	67313REM.001
Company:	VAISALA OY
Sample:	S/01
Operation mode:	OM#01
Description:	EUT ON. MS in IDLE mode. LTE Band 2. (worst case) Power supply: 115Vac, 60Hz



Maximizations

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
31.354000	32.34	---	40.00	7.66	100.0	V	-71.0
31.354000	---	36.27	---	---	100.0	V	-71.0
35.097000	30.06	---	40.00	9.94	115.0	V	-38.0
35.097000	---	35.15	---	---	115.0	V	-38.0
38.957000	27.83	---	40.00	12.17	100.0	V	-27.0
38.957000	---	34.52	---	---	100.0	V	-27.0
41.754000	24.67	---	40.00	15.33	148.0	V	-32.0
41.754000	---	29.77	---	---	148.0	V	-32.0
59.102000	---	29.47	---	---	214.0	V	67.0
59.102000	21.77	---	40.00	18.23	214.0	V	67.0
125.379000	---	33.55	---	---	114.0	V	-143.0
125.379000	28.96	---	43.52	14.56	114.0	V	-143.0
334.139000	---	34.21	---	---	252.0	V	91.0
334.139000	30.77	---	46.00	15.23	252.0	V	91.0

Project:	67313REM.001
Company:	GRANT4COM OY
Sample:	S/01
Operation mode:	01
Graphical code:	RE0101HR
Description:	EUT ON. MS in IDLE mode. LTE Band 2. Power supply: 115Vac, 60Hz
Verdict:	Passed



Maximizations

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1584.000000	---	26.40	53.97	27.57
1584.000000	34.95	---	73.97	39.02
2256.000000	---	23.49	53.97	30.48
2261.200000	36.40	---	73.97	37.57
3840.000000	---	26.50	53.97	27.47
3952.800000	40.10	---	73.97	33.87
6529.600000	---	33.25	53.97	20.72
6562.400000	46.57	---	73.97	27.40
10355.200000	52.51	---	73.97	21.46
10360.400000	---	39.19	53.97	14.78
16901.200000	56.22	---	73.97	17.75
16935.200000	---	43.10	53.97	10.87

FCC CFR 47, Part 15, Subpart B and C (10-1-19 Edition) Secs. 15.107 and 15.207 & ICES-003 Issue 7 (October 2020)
CE Conducted emission

Conducted emissions on power leads. Limits of interference Class B

The applied limit for continuous conducted emissions in power leads, according to the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (10-1-19 Edition), Sec. 15.107 Subpart C (10-1-19 Edition) Secs. 15.207 & ICES-003 Issue 7 (October 2020), in the frequency range 0.15 to 30 MHz, for Class B equipment was:

Frequency range	Limit (dBµV)	
(MHz)	Quasi-Peak	Average
0,15 to 0,5	66 – 56(1)	56 – 46(1)
0,5 to 5	56	46
5 to 30	60	50
(1) The level decreases linearly with the logarithm of the frequency.		

RESULTS

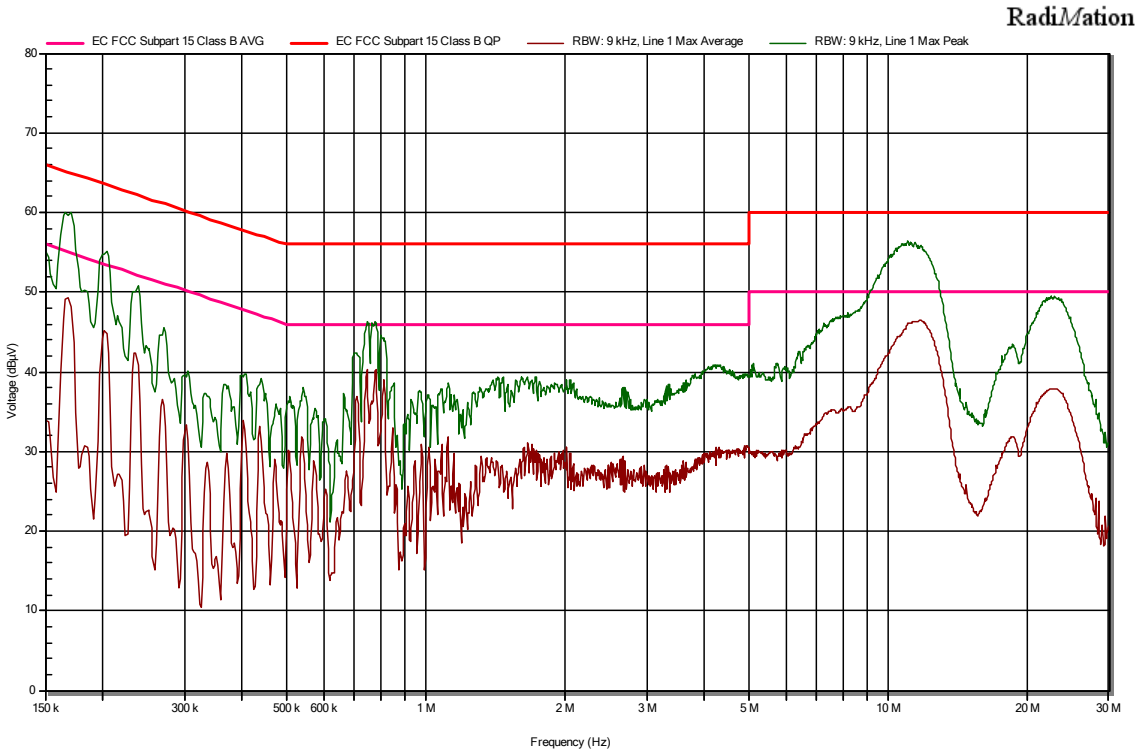
CCmmnnhh	Description	Result
CE01010N	Range: 150 kHz – 30 MHz. Neutral wire noise	P
CE0101L1	Range: 150 kHz – 30 MHz. Phase wire noise	P
CE01020N	Range: 150 kHz – 30 MHz. Neutral wire noise	P
CE0102L1	Range: 150 kHz – 30 MHz. Phase wire noise	P
CE01030N	Range: 150 kHz – 30 MHz. Neutral wire noise	P
CE0103L1	Range: 150 kHz – 30 MHz. Phase wire noise	P
CE01040N	Range: 150 kHz – 30 MHz. Neutral wire noise	P
CE0104L1	Range: 150 kHz – 30 MHz. Phase wire noise	P
CE01050N	Range: 150 kHz – 30 MHz. Neutral wire noise	P
CE0105L1	Range: 150 kHz – 30 MHz. Phase wire noise	P

CEmmnnhh: CE: Conducted Emission; mm: Sample number; nn: Operation mode; hh: Wire

VERDICT

Pass

Project:	67313REM.001
Company:	GRANT4COM OY
Sample:	01
Operation mode:	01
Graphical code:	CE0101L1
Description:	EUT ON. MS in IDLE mode. LTE Band 2. Power supply: 115Vac, 60Hz. Phase wire noise

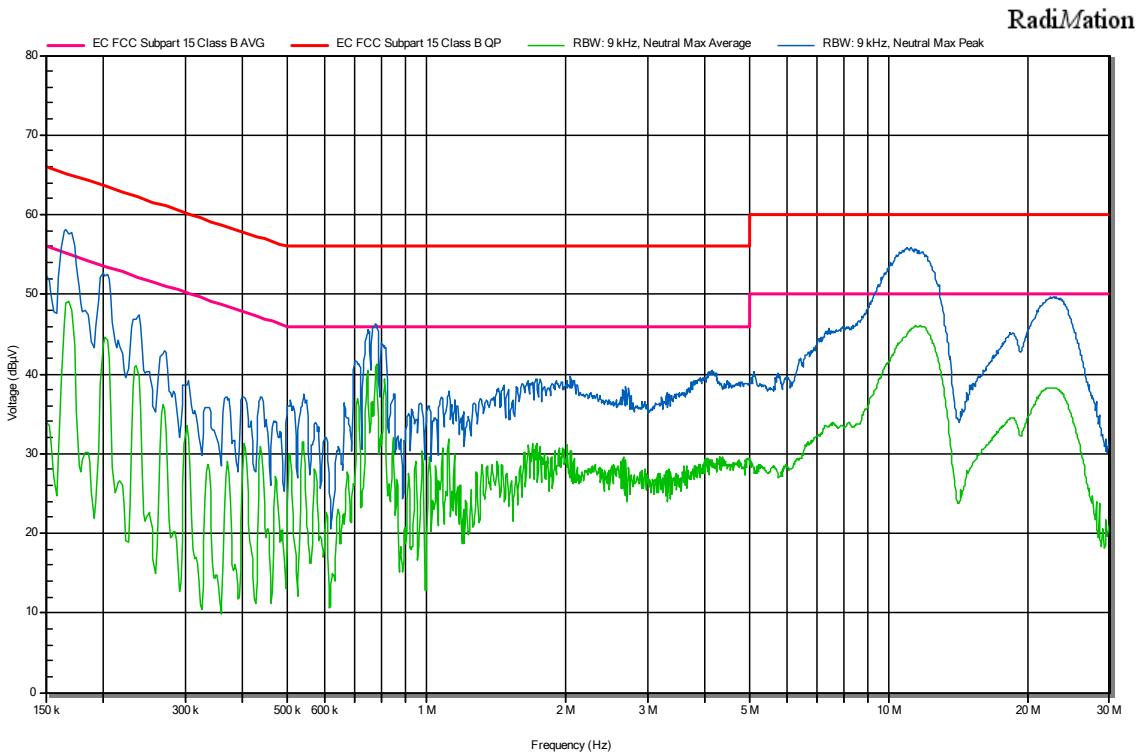


Final_Result

Frequency	Peak	Average
168,402 kHz	59,6 dBµV	49,3 dBµV
201,117 kHz	54,7 dBµV	45,2 dBµV
235,876 kHz	50,1 dBµV	42,4 dBµV
270,636 kHz	45,5 dBµV	35,9 dBµV
708,197 kHz	42,3 dBµV	36,9 dBµV
775,671 kHz	46,3 dBµV	40,1 dBµV
4,29 MHz	40,8 dBµV	29,9 dBµV
11,183 MHz	56 dBµV	45,9 dBµV
11,713 MHz	55,2 dBµV	46,5 dBµV
22,801 MHz	49,3 dBµV	37,7 dBµV

Project:	67313REM.001
Company:	GRANT4COM OY
Sample:	01
Operation mode:	01
Graphical code:	CE01010N
Description:	EUT ON. MS in IDLE mode. LTE Band 2. Power supply: 115Vac, 60Hz. Neutral wire noise

Full Spectrum

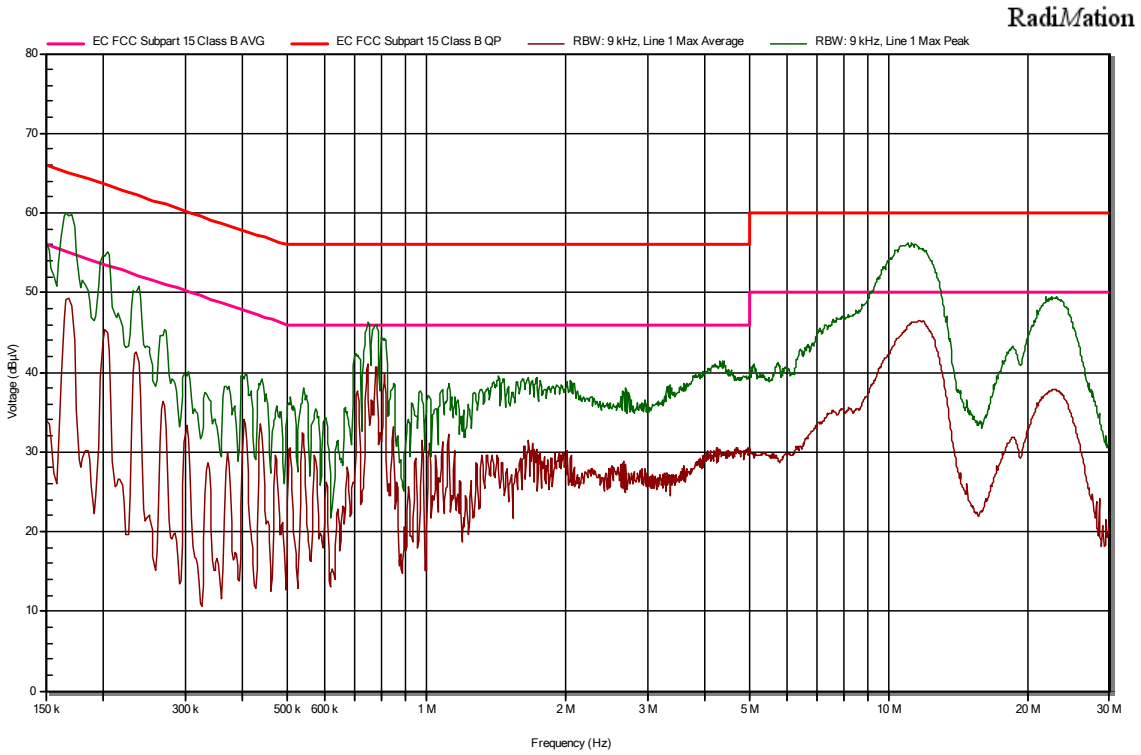


Final_Result

Frequency	Peak	Average
168,402 kHz	57,6 dBµV	49,1 dBµV
201,117 kHz	52,3 dBµV	44,6 dBµV
235,876 kHz	46,9 dBµV	41 dBµV
704,108 kHz	41,6 dBµV	34,5 dBµV
775,671 kHz	46,2 dBµV	40,9 dBµV
4,125 MHz	40,4 dBµV	28,6 dBµV
11,142 MHz	55,8 dBµV	45,3 dBµV
11,707 MHz	54,8 dBµV	46 dBµV
18,474 MHz	45 dBµV	34,5 dBµV
22,586 MHz	49,3 dBµV	38,2 dBµV

Project:	67313REM.001
Company:	GRANT4COM OY
Sample:	01
Operation mode:	02
Graphical code:	CE0102L1
Description:	EUT ON. MS in traffic mode. LTE Band 2. Power supply: 115Vac, 60Hz. Phase wire noise

Full Spectrum

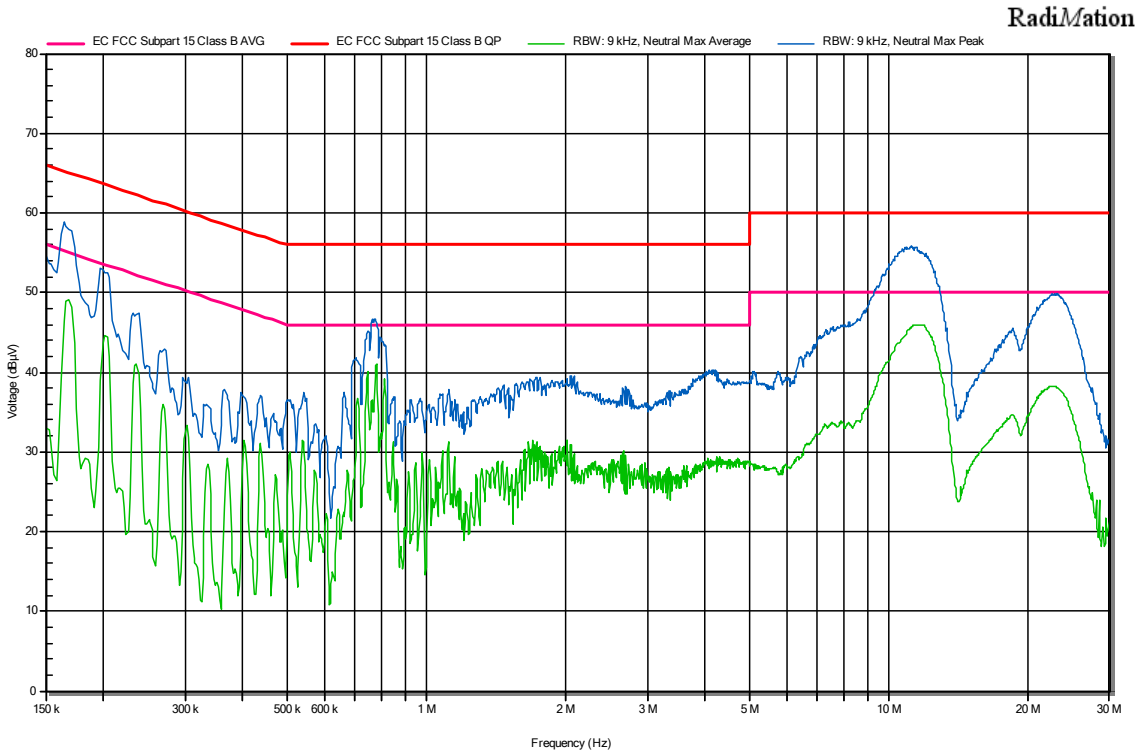


Final_Result

Frequency	Peak	Average
168,402 kHz	59,6 dBµV	49,4 dBµV
201,117 kHz	54,5 dBµV	45,3 dBµV
235,876 kHz	50,1 dBµV	42,5 dBµV
704,108 kHz	42,2 dBµV	35,5 dBµV
742,957 kHz	46 dBµV	41,1 dBµV
3,953 MHz	39,9 dBµV	29,5 dBµV
4,352 MHz	41 dBµV	29,5 dBµV
11,187 MHz	56,1 dBµV	46,2 dBµV
11,641 MHz	55,3 dBµV	46,4 dBµV
22,682 MHz	49,4 dBµV	37,7 dBµV

Project:	67313REM.001
Company:	GRANT4COM OY
Sample:	01
Operation mode:	02
Graphical code:	CE01020N
Description:	EUT ON. MS in traffic mode. LTE Band 2. Power supply: 115Vac, 60Hz. Neutral wire noise

Full Spectrum

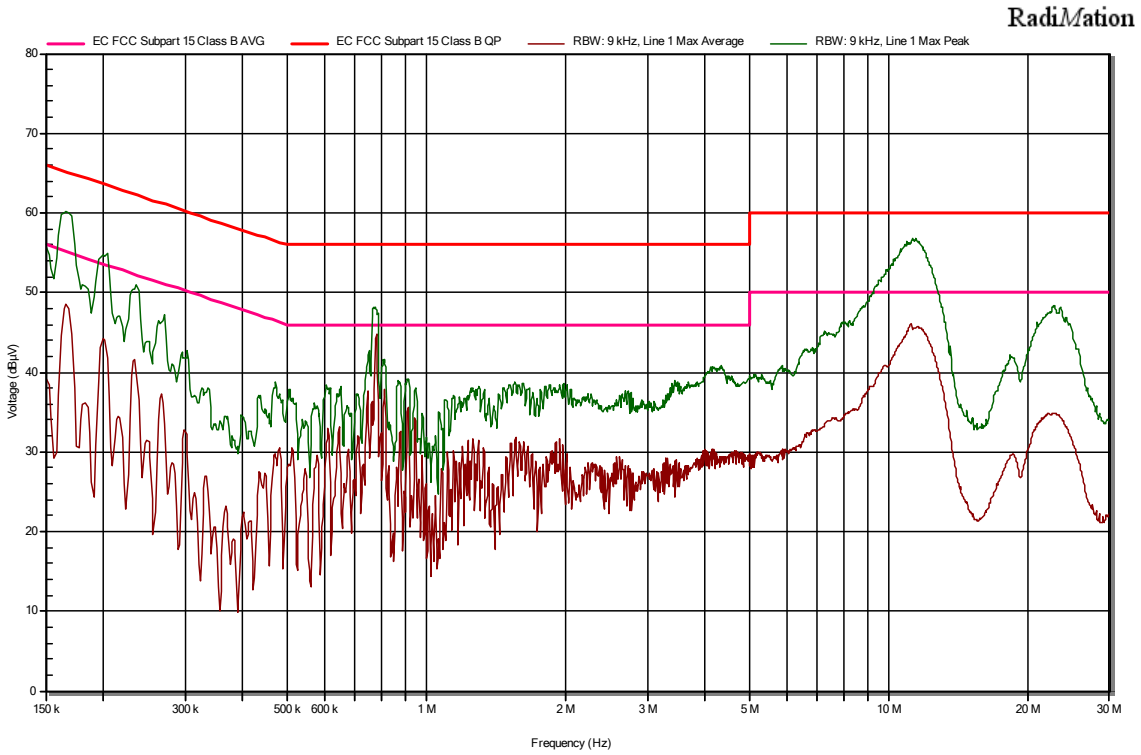


Final_Result

Frequency	Peak	Average
166,357 kHz	58,3 dBµV	48,9 dBµV
199,072 kHz	52,8 dBµV	43,6 dBµV
235,876 kHz	47,1 dBµV	41 dBµV
702,063 kHz	41,7 dBµV	31,9 dBµV
769,537 kHz	46,7 dBµV	36 dBµV
1,724 MHz	39,4 dBµV	30,6 dBµV
4,125 MHz	40,3 dBµV	28,1 dBµV
11,179 MHz	55,8 dBµV	45,5 dBµV
18,526 MHz	45,3 dBµV	34,6 dBµV
23,171 MHz	49,6 dBµV	37,9 dBµV

Project:	67313REM.001
Company:	GRANT4COM OY
Sample:	01
Operation mode:	03
Graphical code:	CE0103L1
Description:	EUT ON. MS allocated a channel. GSM 850. Power supply: 115Vac, 60Hz. Phase wire noise

Full Spectrum

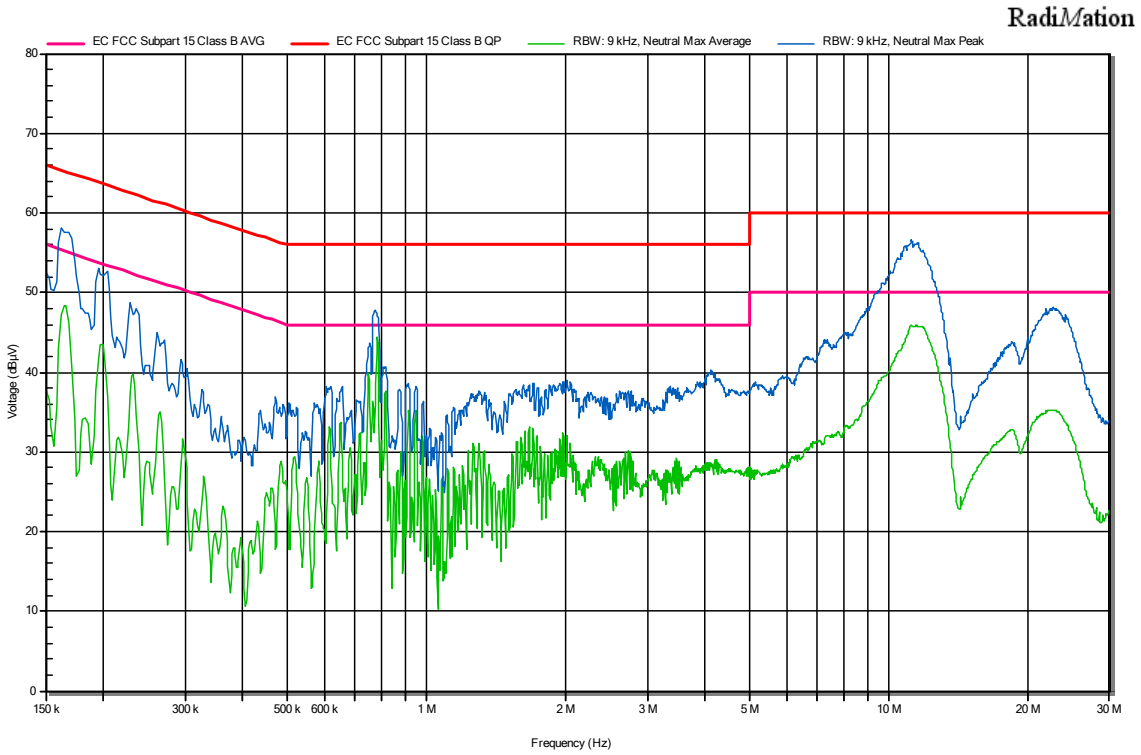


Final_Result

Frequency	Peak	Average
166,357 kHz	60,1 dBµV	48,6 dBµV
199,072 kHz	54,8 dBµV	44,2 dBµV
233,832 kHz	50,4 dBµV	41,6 dBµV
266,547 kHz	46,2 dBµV	37,3 dBµV
771,582 kHz	48,2 dBµV	41,5 dBµV
910,62 kHz	39 dBµV	35,6 dBµV
3,996 MHz	39,4 dBµV	30,4 dBµV
4,344 MHz	40,9 dBµV	28 dBµV
11,242 MHz	56,7 dBµV	45,3 dBµV
22,697 MHz	47,8 dBµV	34,6 dBµV

Project:	67313REM.001
Company:	GRANT4COM OY
Sample:	01
Operation mode:	03
Graphical code:	CE01030N
Description:	EUT ON. MS allocated a channel. GSM 850. Power supply: 115Vac, 60Hz. Neutral wire noise

Full Spectrum

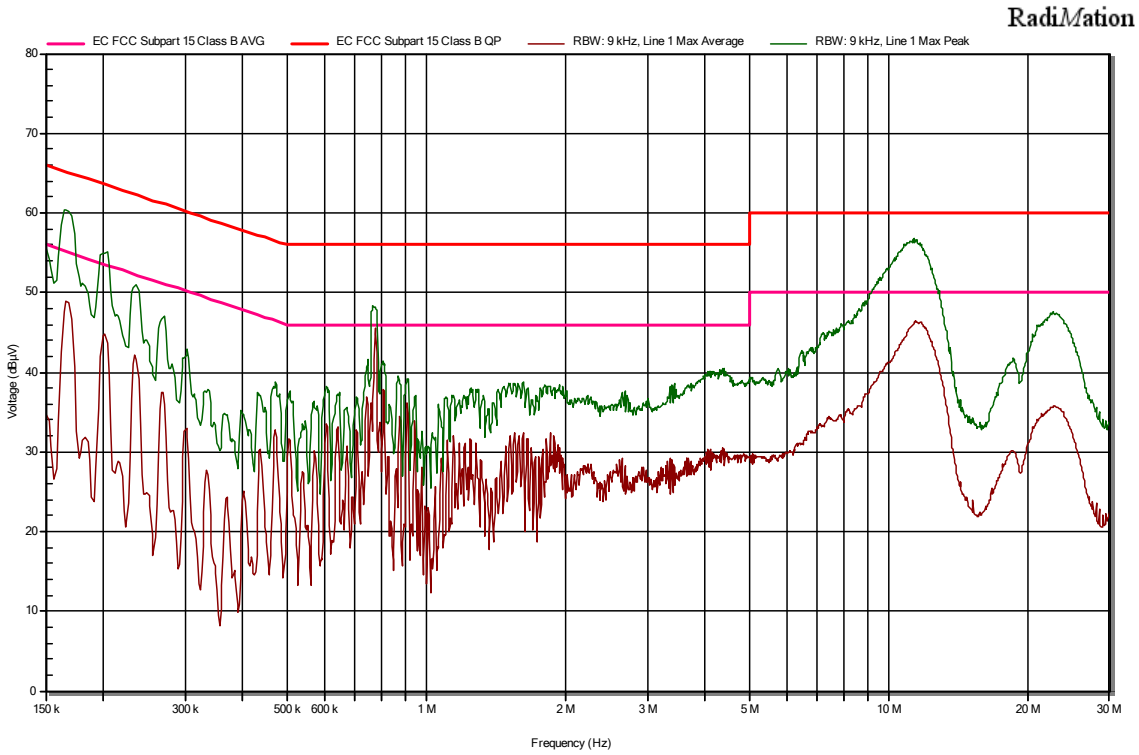


Final_Result

Frequency	Peak	Average
166,357 kHz	57,6 dBµV	48,3 dBµV
197,028 kHz	52,3 dBµV	43,5 dBµV
231,787 kHz	47,3 dBµV	39,8 dBµV
773,627 kHz	47,5 dBµV	35,9 dBµV
1,698 MHz	38,6 dBµV	32,8 dBµV
1,974 MHz	38,7 dBµV	31,9 dBµV
4,121 MHz	40,1 dBµV	28 dBµV
11,169 MHz	56,4 dBµV	46 dBµV
18,636 MHz	43,6 dBµV	32,4 dBµV
22,995 MHz	47,9 dBµV	35,1 dBµV

Project:	67313REM.001
Company:	GRANT4COM OY
Sample:	01
Operation mode:	04
Graphical code:	CE0104L1
Description:	EUT ON. MS in traffic mode. WCDMA Band II. Power supply 115Vac, 60Hz. Phase wire noise

Full Spectrum

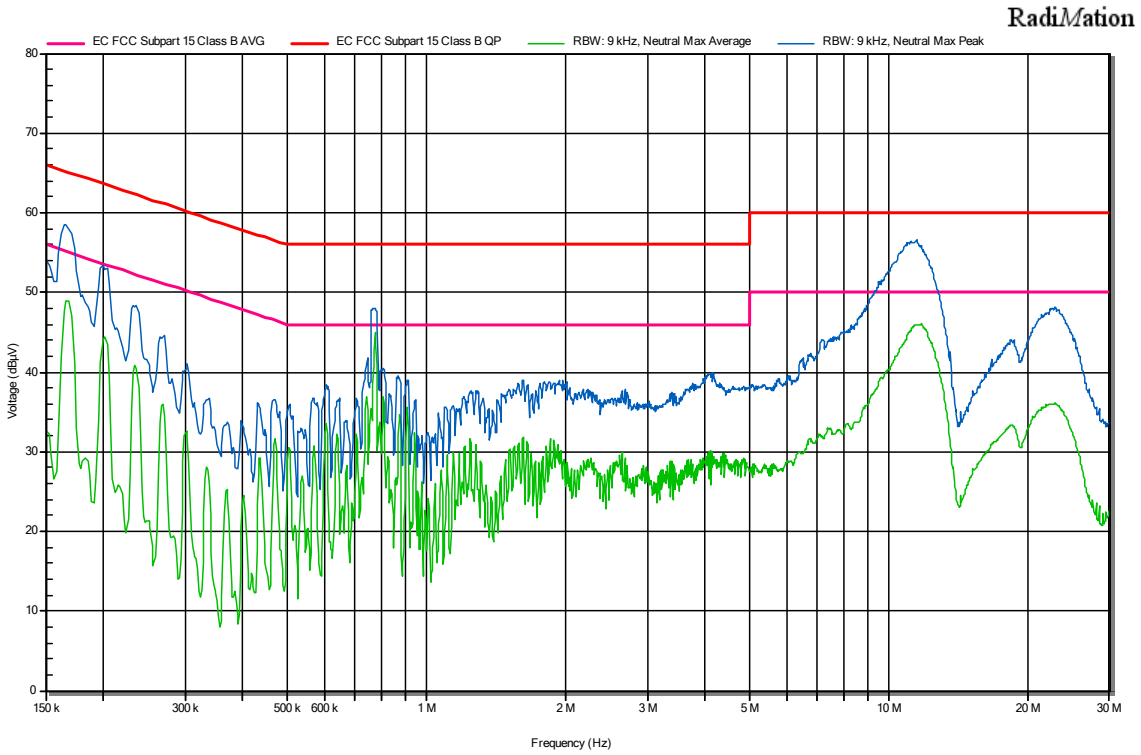


Final_Result

Frequency	Peak	Average
166,357 kHz	60,3 dBµV	48,9 dBµV
201,117 kHz	55 dBµV	44,8 dBµV
233,832 kHz	50,9 dBµV	42,1 dBµV
268,591 kHz	46,8 dBµV	37,4 dBµV
769,537 kHz	48,3 dBµV	41,6 dBµV
867,682 kHz	39,5 dBµV	28,6 dBµV
4,098 MHz	40,1 dBµV	30,2 dBµV
6,47 MHz	42,6 dBµV	30,4 dBµV
11,445 MHz	56,5 dBµV	46,3 dBµV
22,809 MHz	47,3 dBµV	35,7 dBµV

Project:	67313REM.001
Company:	GRANT4COM OY
Sample:	01
Operation mode:	04
Graphical code:	CE01040N
Description:	EUT ON. MS in traffic mode. WCDMA Band II. Power supply: 115Vac, 60Hz. Neutral wire noise

Full Spectrum

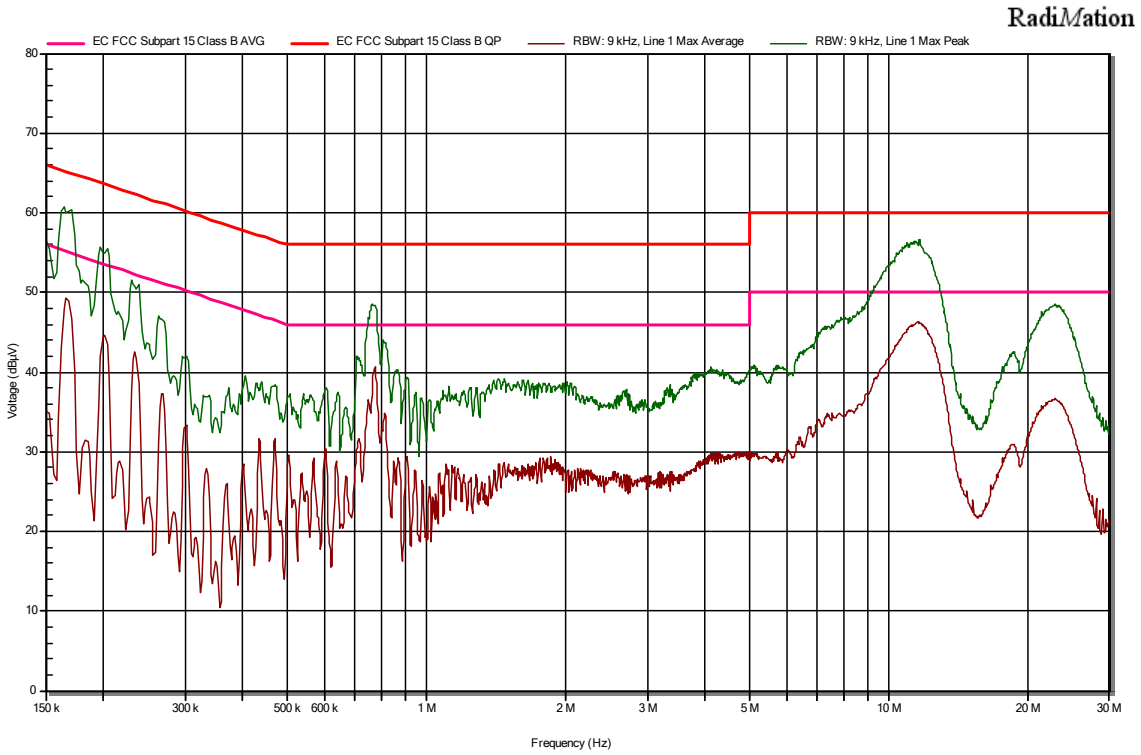


Final_Result

Frequency	Peak	Average
166,357 kHz	58,5 dBµV	49 dBµV
201,117 kHz	52,9 dBµV	44,4 dBµV
233,832 kHz	48,2 dBµV	40,9 dBµV
767,493 kHz	48 dBµV	40,9 dBµV
867,682 kHz	39,5 dBµV	30,5 dBµV
4,135 MHz	39,9 dBµV	29,2 dBµV
11,486 MHz	56,2 dBµV	45,9 dBµV
11,717 MHz	55,4 dBµV	46 dBµV
18,472 MHz	43,9 dBµV	33,3 dBµV
22,807 MHz	48,2 dBµV	36 dBµV

Project:	67313REM.001
Company:	GRANT4COM OY
Sample:	01
Operation mode:	05
Graphical code:	CE0105L1
Description:	EUT ON. MS in traffic mode. LTE Band 41. Power supply: 115Vac, 60Hz. Phase wire noise

Full Spectrum

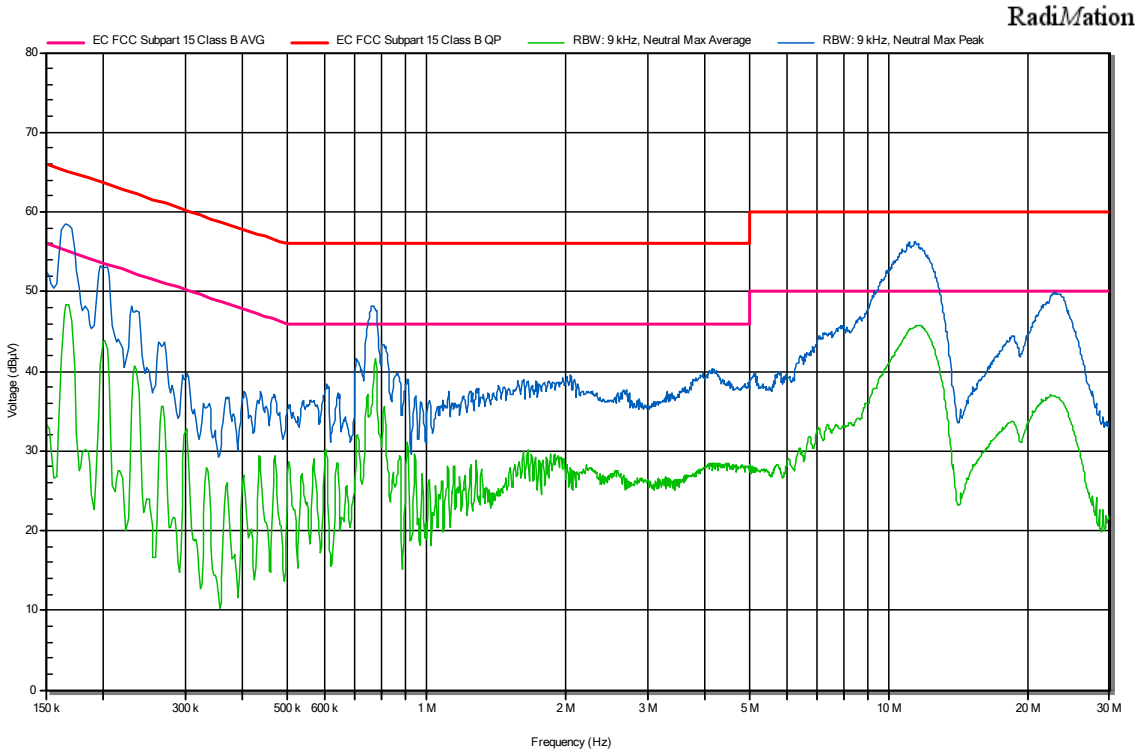


Final_Result

Frequency	Peak	Average
166,357 kHz	60 dBµV	49,2 dBµV
199,072 kHz	55 dBµV	44,4 dBµV
231,787 kHz	51 dBµV	41,6 dBµV
266,547 kHz	46,7 dBµV	37,3 dBµV
712,286 kHz	41,8 dBµV	31,6 dBµV
771,582 kHz	48,4 dBµV	40,6 dBµV
861,548 kHz	40,2 dBµV	28 dBµV
4,176 MHz	40,3 dBµV	29,4 dBµV
11,41 MHz	56,5 dBµV	46 dBµV
22,868 MHz	48,5 dBµV	36,4 dBµV

Company:	GRANT4COM OY
Sample:	01
Operation mode:	05
Graphical code:	CE01050N
Description:	EUT ON. MS in traffic mode. LTE Band 41. Power supply: 115Vac, 60Hz. Neutral wire noise

Full Spectrum



Final_Result

Frequency	Peak	Average
166,357 kHz	58,4 dBµV	48,4 dBµV
201,117 kHz	53 dBµV	43,9 dBµV
233,832 kHz	47,5 dBµV	40,7 dBµV
708,197 kHz	41,3 dBµV	32,1 dBµV
763,403 kHz	48,2 dBµV	36,6 dBµV
861,548 kHz	39,7 dBµV	26,8 dBµV
4,178 MHz	40,3 dBµV	28,3 dBµV
11,381 MHz	56,2 dBµV	45,5 dBµV
18,532 MHz	44,4 dBµV	33,6 dBµV
22,995 MHz	49,7 dBµV	36,6 dBµV