

RADIO TEST REPORT

No. 1303478-1 Ed. 2

RF performance

EQUIPMENT UNDER TEST

Equipment : Control unit for wireless sensor system
Type / model : DCU
Manufacturer : SCA hygiene products AB
Tested by request of : SCA hygiene products AB

SUMMARY

Referring to the emission limits and the operating mode during the tests specified in this report the equipment complies with the requirements according to

47 CFR Part 15, Subpart C, Intentional radiators, section 15.247
RSS GEN Issue 4 (2014), RSS 247 ISSUE 1 (2015) (ICES-003 Issue 5 (2012)
Test methods according to ANSI C63.10-2013 and ANSI C63.4 (2014)

Date of issue: 2015-08-28

Tested by:


Matti Virkki

Approved by:


Stefan Andersson

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Revision History

Edition	Date	Description
1	2013-05-15	First release
2	2015-08-25	Update to RSS-GEN issue 4, RSS-247 Issue 1 and ANSI C63.10 (2013) Re-measurement of radiated emission above 1 GHz, output power and 6 dB bandwidth

CONTENTS

	Page
1 CLIENT INFORMATION.....	5
2 EQUIPMENT UNDER TEST (EUT).....	5
2.1 IDENTIFICATION OF THE EUT ACCORDING TO THE MANUFACTURER/CLIENT DECLARATION	5
2.2 ADDITIONAL HARDWARE INFORMATION ABOUT THE EUT	6
2.3 ADDITIONAL SOFTWARE INFORMATION ABOUT THE EUT.....	6
2.4 PERIPHERAL EQUIPMENT	6
2.5 TEST SIGNALS.....	6
2.6 MODIFICATION DURING THE TESTS	6
3 TEST SPECIFICATIONS.....	7
3.1 STANDARDS.....	7
3.2 TEST SITE	7
3.3 TEST SET-UP	7
3.4 TEST CONDITIONS.....	7
4 TEST SUMMARY	8
5 AC LINE CONDUCTED EMISSION, 150 KHZ TO 30 MHZ	9
5.1 REQUIREMENT	9
5.2 TEST SETUP DETAILS	9
5.3 TEST DATA.....	10
5.4 TEST EQUIPMENT	10
6 TRANSMITTER RADIATED EMISSIONS MEASUREMENTS FROM 30 TO 1000MHZ.....	11
6.1 REQUIREMENT	11
6.2 TEST SETUP DETAILS	11
6.3 TEST DATA.....	12
6.4 TEST EQUIPMENT	12
7 TRANSMITTER RADIATED EMISSIONS MEASUREMENTS ABOVE 1 GHZ.....	13
7.1 REQUIREMENT	13
7.2 TEST SETUP DETAILS	14
7.3 TEST DATA.....	15
7.4 TEST EQUIPMENT	17
8 RECEIVER RADIATED EMISSION.....	18
8.1 REQUIREMENT	18
8.2 TEST SETUP DETAILS	19
8.3 TEST DATA 30MHZ-1GHZ	20
8.4 TEST DATA 1-13 GHZ	21
9 VARIATION OF RADIATED SIGNAL LEVEL	22
9.1 REQUIREMENT	22
9.2 TEST DATA.....	22
9.3 TEST EQUIPMENT	22
10 6DB OCCUPIED BANDWIDTH TEST.....	23
10.1 REQUIREMENT	23
10.2 TEST DATA.....	23
10.3 TEST EQUIPMENT	23
11 99% OCCUPIED BANDWIDTH.....	24
11.1 REQUIREMENT	24
11.2 TEST DATA.....	24

11.3	TEST EQUIPMENT	24
12	CONDUCTED OUTPUT POWER.....	25
12.1	REQUIREMENT	25
12.2	TEST DATA.....	25
12.3	TEST EQUIPMENT	25
13	BANDEDGE MEASUREMENT	26
13.1	REQUIREMENT	26
13.2	TEST DATA.....	26
13.3	TEST EQUIPMENT	27
14	POWER SPECTRAL DENSITY	28
14.1	REQUIREMENT	28
14.2	TEST DATA.....	28
14.3	TEST EQUIPMENT	28
15	DUTY CYCLE.....	29
15.1	REQUIREMENT	29
15.2	TEST DATA.....	29
15.3	TEST EQUIPMENT	30
16	UNCERTAINTIES SUMMARY	31
17	PHOTO OF THE EUT	32

1 CLIENT INFORMATION

The EUT has been tested by request of

Company: SCA Hygiene products AB
Bäckstensgatan 5
405 03 Gothenburg
Sweden

Name of contact: Allan Elfström

2 EQUIPMENT UNDER TEST (EUT)

2.1 Identification of the EUT according to the manufacturer/client declaration

Equipment: Control unit for wireless sensor system

Type/Model: DCU

Brand name: SCA

Serial number: -

Manufacturer: SCA Hygiene products AB
Bäckstensgatan 5
405 03 Gothenburg
Sweden

Transmitter frequency range: 2405 MHz

Receiver frequency range: 2405 MHz

Frequency agile or hopping: ☐ Yes ☒ No

Antenna: ☒ Internal antenna ☐ External antenna

Antenna connector: ☒ None, internal antenna ☐ Yes, type

Antenna gain: 2 dBi

Rating RF output power: 3 dBm

Type of modulation: O-QPSK

Temperature range: ☐ Category I (General): -20°C to +55°C
☐ Category II (Portable equipment): -10°C to +55°C
☒ Category III (Equipment for normal indoor use): +5°C to +35°C
☐ Other:

Power rating: 2 mW

Transmitter standby mode supported: ☒ Yes ☐ No

2.2 Additional hardware information about the EUT

The EUT consists of the following units:

Unit	Part number	Revision	Serial number
DCU	-	--	-

2.3 Additional software information about the EUT

During the tests the EUT supported the following software:

- TX continuous modulated signal
- RX mode

2.4 Peripheral equipment

Peripheral equipment is defined as equipment needed for correct operation of the EUT during the tests, but not included as a part of the testing and evaluation of the EUT.

Equipment	Manufacturer / Type	Serial number
Switch mode power supply	EMSA05012	-

2.5 Test signals

All transmitter tests were made with continuous modulated signal.
Normal

2.6 Modification during the tests

EUT was equipped with power switch and jumper was used between test point 3 and R 55 to enable continuous transmission.

One unit was equipped with SMA connector to enable conducted tests.

No other modifications were made during the tests.

3 TEST SPECIFICATIONS

3.1 Standards

47 CFR Part 15, Subpart C, Intentional radiators, section 15.247
 RSS-GEN Issue 4 (2014), RSS-247 Issue 1 (2015)
 ICES-003 Issue 5 (2012)

Test methods in:

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices

ANSI C63.4 2014: : American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

3.2 Test site

Measurements were performed at:

Intertek Semko AB.
 Torshamnsgatan 43,
 P.O. Box 1103
 SE-164 22 Kista

Intertek Semko AB is a FCC listed test site with site registration number 90913
 Intertek Semko AB is a Industry Canada listed test facility with IC assigned code 2042G

Measurement chambers

Measurement Chamber	Type of chamber	IC Site filing #
STORA HALLEN a.k.a. BIG CHAMBER	Semi-anechoic 10m and 3m	2042G-2
Björkhallen	Semi anechoic 3m	2042G-1
RADIOHALLEN	Fully-anechoic 3m	--

3.3 Test set-up

If not stated otherwise EUT was connected to spectrum analyser with coaxial cable.

3.4 Test conditions

If not additionally specified, the tests were performed under the following environmental conditions:

Parameter	Normal	Extreme
Supplying voltage, V	120	85-138
Air temperature, °C	20	20

4 TEST SUMMARY

The results in this report apply only to the tested sample:

Test	Result	Section in report	Note
Standard test methods			
AC power-line conducted tests	Pass	5	Class B
Radiated test below 30 MHz	N/A		
Radiated emissions measurements from 30 to 1000 MHz	Pass	6	
Determination of radiated and antenna conducted emissions above 1 GHz	Pass	7	
Frequency Stability Test	Pass	9	
Occupied bandwidth and band-edge tests	Pass	10 11 13	
Output Power average symbol envelope power	NA		
Power Spectral Density < 40 GHz	Pass	14	
Power Spectral Density > 40 GHz	NA		
In-situ measurements	NA		
Polar plot, main lobe and variation on radiated emissions test	NA		
Device-specific tests			
Measurement of cable locating equipment	NA		
Determining of cordless telephone handset security code	NA		
Determination of total input power	NA		
Procedure determining compliance for periodic operation [15.231, 15.240(b)]	NA		
Determining the average value of pulsed emissions per 15.35(c)	NA		
Comparison of limits per 15.231(b)(3)	NA		
Procedure to determine compliance of frequency pairing for 47 CFR 15.233(b)(2)	NA		
Determination of frequency hopping compliance per 47 CFR 15.247	NA		
Determination of digital modulation compliance per 47 CFR 15.247	PASS	10	
Determination of peak conducted output unlicensed wireless device power [15.247(b), 15.255]	PASS	12	
Determination of maximum conducted output power (15.247, 15-E)	PASS	12	
Determination of MIMO compliance (2nd edition)	NA		
Determination of Smart antenna compliance (2nd edition)	NA		
Determination of antenna gains, including those emitting in multiple directions (15.247)	PASS	2	
Determination of compliance with RF exposure limits	PASS	12	
Millimeter wave test procedures for systems operating at 54GHz and greater	NA		
Determination of EIRP (15-F)	NA		
Determination Transmitter Etiquette FCC Part 15.255	NA		
Determination of Dynamic Frequency Selection (DFS) including Channel Move Time and In Service Monitoring	NA		
Determination of channel availability	NA		
Determination of Dynamic Frequency Selection including Channel Move Time	NA		
Determination of transmitter power control (TPC) (15-E)	NA		
Peak excursion measurement for UNII devices	NA		
Determination of UWB bandwidth	NA		
Determination of the center frequency, f_C , and highest radiated emissions, f_M (15-F)	NA		

NT = Not Tested, by request of the Client

NA = Not Applicable

5 AC LINE CONDUCTED EMISSION, 150 KHZ TO 30 MHZ

Date of test:	2013-4-16	Test location:	EMC Center
EUT Serial:	-	Ambient temp.	23°C
Tested by:	Matti Virkki	Relative humidity	33%
Test result:	Pass	Margin:	9.4 dB

5.1 Requirement

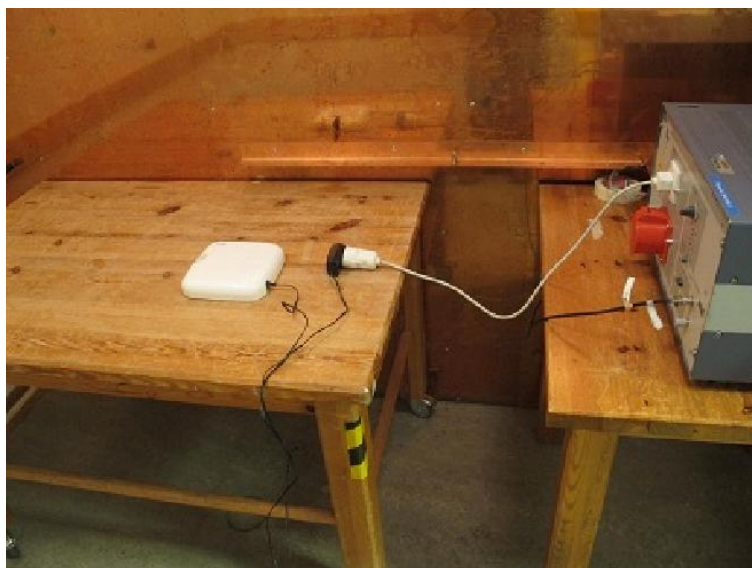
Reference: FCC §15.107, Class B limit
 FCC §15.207
 RSS-GEN 8.8 table 3
 ICES-003 Issue 5 (2012)

Frequency MHz	Quasi-peak Limit dB μ V	Average Limit dB μ V
0.15 – 0.5	66 – 56	56 – 46
0.5 – 1.6	56	46
1.6 – 30	60	50

5.2 Test setup details

The mains terminal disturbance voltage was measured with the EUT located 0,8 m above the ground plane and 0,4 m from the vertical ground plane. The EUT was connected to an artificial mains network (AMN). The AMN was bonded to the ground plane. Amplitude measurements were performed with a quasi-peak detector. The EUT was supplied by 120 VAC (60 Hz) during the test.

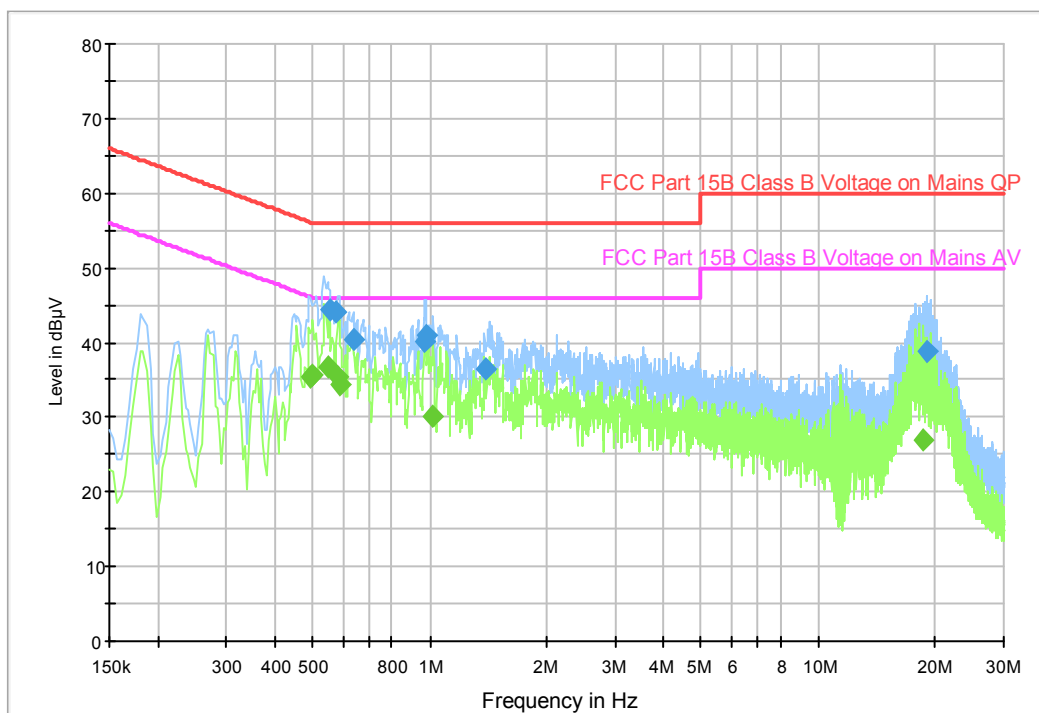
Test set-up photo:



5.3 Test data

Overview sweeps performed with peak and average detectors

FCC Part 15B Class B Voltage on Mains AV ESH2-Z5 (1-fas uttaget)



Frequency MHz	Quasi-Peak			Frequency MHz	Average		
	Disturbance level dBµV	Limit dBµV	Margin dB		Disturbance level dBµV	Limit dBµV	Margin dB
0.55	44.2	56.0	11.8	0.49	35.5	46.1	10.6
0.57	44.1	56.0	11.9	0.50	35.6	46.0	10.4
0.63	40.5	56.0	15.5	0.55	36.6	46.0	9.4
0.97	40.2	56.0	15.8	0.58	35.5	46.0	10.5
0.98	40.9	56.0	15.1	0.58	34.4	46.0	11.6
1.39	36.5	56.0	19.5	1.01	30.1	46.0	15.9
18.96	38.9	60.0	21.1	18.50	27.0	50.0	23.0

Measured level [dBµV] = Analyser reading [dBµV] + cable loss [dB] + LISN insertion loss [dB]

5.4 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Measurement software	Rohde & Schwarz	EMC32	--	--
Receiver	Rohde & Schwarz	ESCI	S32455	13/7
AMN / LISN	Rohde & Schwarz	ESH2-Z5	3017	

6 TRANSMITTER RADIATED EMISSIONS MEASUREMENTS FROM 30 TO 1000MHZ

Date of test:	2013-04-09	Test location:	Big Chamber / wireless center
EUT Serial:	-	Ambient temp.	25 °C
Tested by:	Matti Virkki	Relative humidity	31 %
Test result:	Pass	Margin:	12.6 dB

6.1 Requirement

Reference: FCC §15.209, IC RSS-GEN Table 5.

Frequency (MHz)	Field strength (dB μ V/m)	Measurement distance (m)
30 – 88	40.0	3
88 – 216	43.5	3
216 – 960	46.0	3
960 –	54.0	3

6.2 Test setup details

Operation mode: continuous transmission, modulating.

Test set-up was according to ANSI C63.10 (2013) sections 6.3 and 6.5.

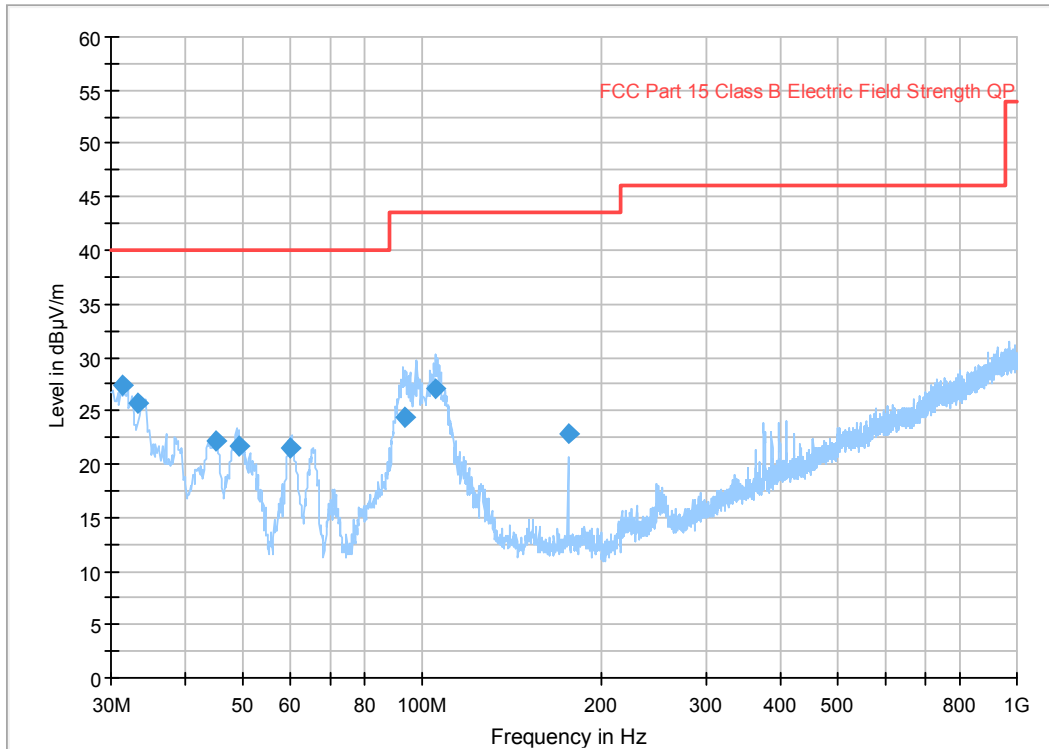
Test set-up photo:



6.3 Test data

Overview sweeps performed with peak detectors,

Full Spectrum



Frequency MHz	Disturbance Level dBµV/m	RBW kHz	Detector QP	Limit dBµV/m	Pol.	Azimuth deg	Antenna height cm	Margin dB
31.28	27.35	120	QP	40.00	V	68.0	103.0	12.65
33.20	25.77	120	QP	40.00	V	175.0	100.0	14.23
44.96	22.23	120	QP	40.00	V	133.0	100.0	17.77
49.05	21.69	120	QP	40.00	V	103.0	103.0	18.31
60.24	21.51	120	QP	40.00	V	336.0	205.0	18.49
93.18	24.29	120	QP	43.50	V	45.0	143.0	19.23
105.13	27.00	120	QP	43.50	H	83.0	225.0	16.52
176.01	22.84	120	QP	43.50	H	276.0	134.0	20.68

Measured level [dBµV/m] = Analyser reading [dBµV] + cable loss [dB] – preamplifier gain [dB] + antenna factor [dB/m]

6.4 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Measurement software	Rohde & Schwarz	EMC 32	--	--
Receiver	Rohde & Schwarz	ESIB26	32291	7/13
Log periodic antenna	Rohde & Schwarz	HBL562	30711	14/12

7 TRANSMITTER RADIATED EMISSIONS MEASUREMENTS ABOVE 1 GHZ

Date of test:	2015-08-22	Test location:	Big Chamber
EUT Serial:	-	Ambient temp.	22°C
Tested by:	Matti Virkki	Relative humidity	42%
Test result:	Pass	Margin:	9.9 dB

7.1 Requirement

Reference: FCC §15.209, IC RSS-GEN Table 5

Method: AnsiC63.10 (2013) sections 6.3 and 6.6.

Within the restricted bands

Frequency (MHz)	Field strength (dB μ V/m)	Measurement distance (m)
30 – 88	40.0	3
88 – 216	43.5	3
216 – 960	46.0	3
960 –	54.0	3

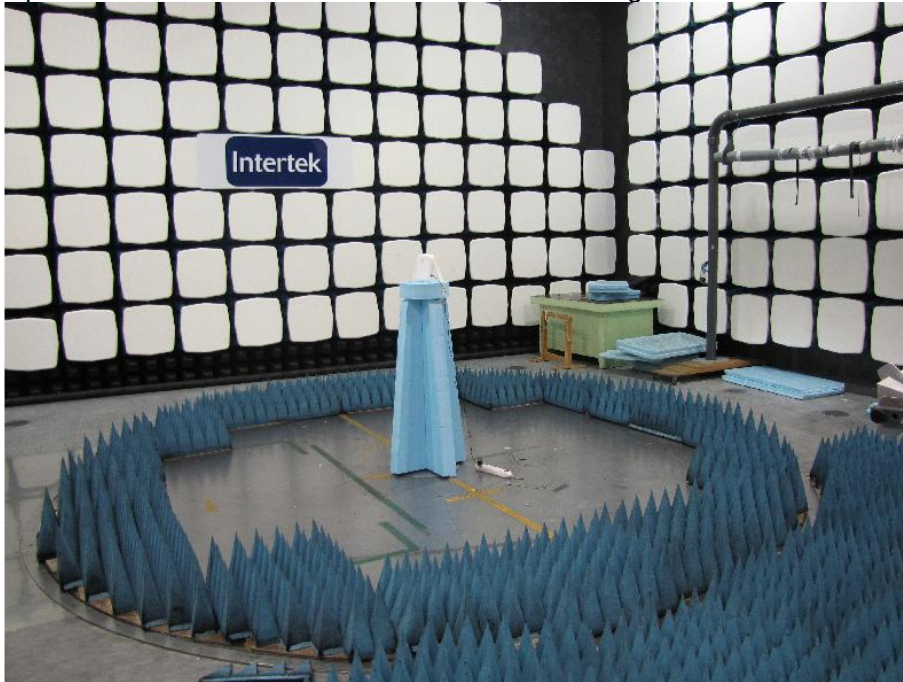
Frequency MHz	Average limit dB μ V/m	Peak limit dB μ V/m
> 960 MHz	54	74

Outside restricted bands: 15.247 (d) RSS-247 5.5

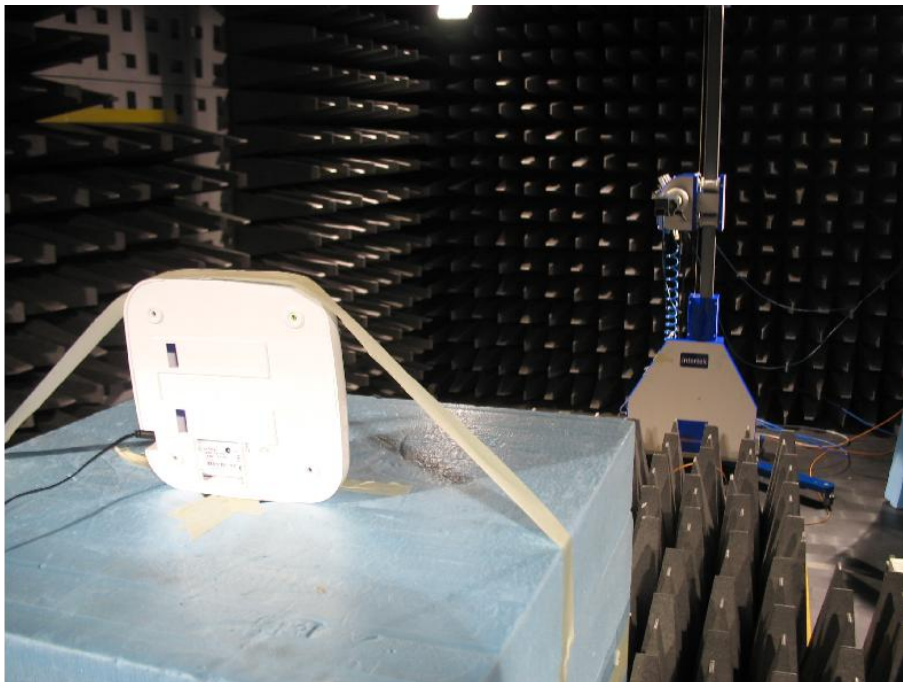
Frequency MHz	Average limit dB μ V/m	Peak limit dB μ V/m
	< 20 dB from carrier	< 20 dB from carrier

7.2 Test setup details

Operation mode: continuous transmission, modulating.



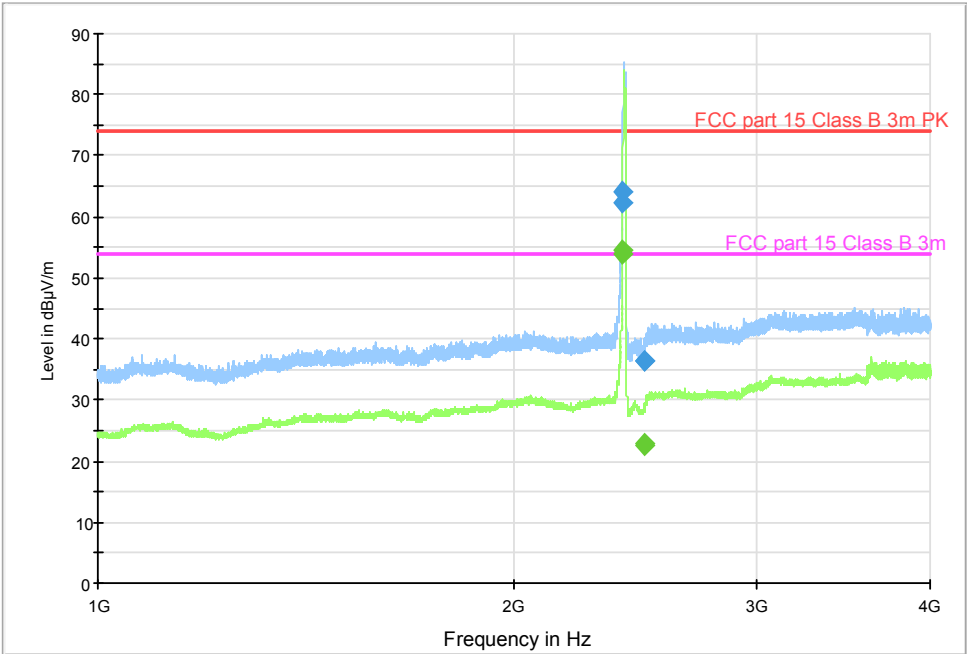
Test set-up photo: 1 -18 GHz



Test set-up photo: 18 – 26.5 GHz preliminary sweep

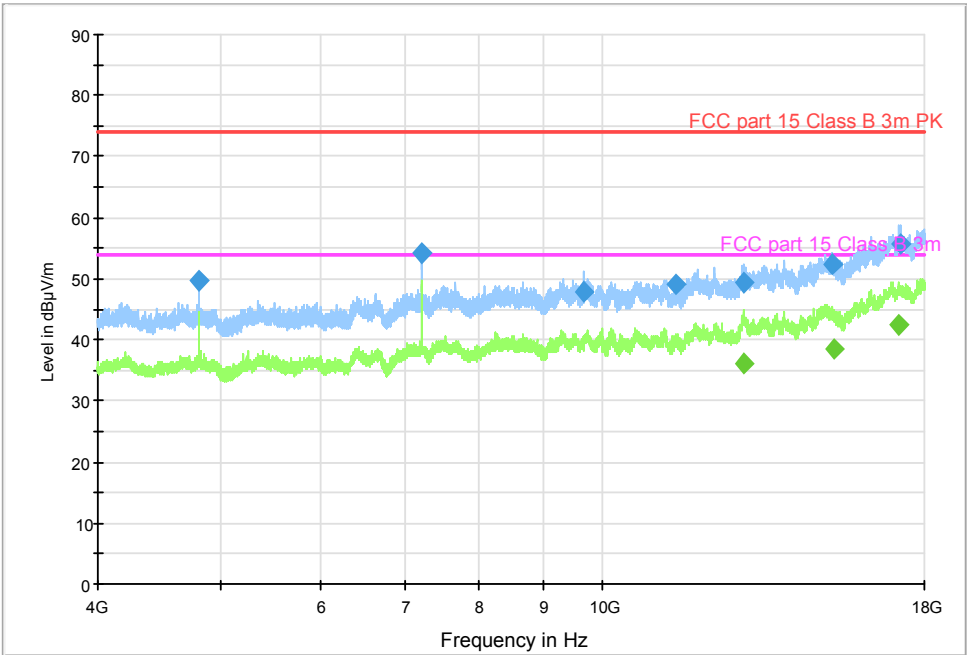
7.3 Test data

FCC 1 G - 4 G class B 3m ESU40 Continuous TT rotation



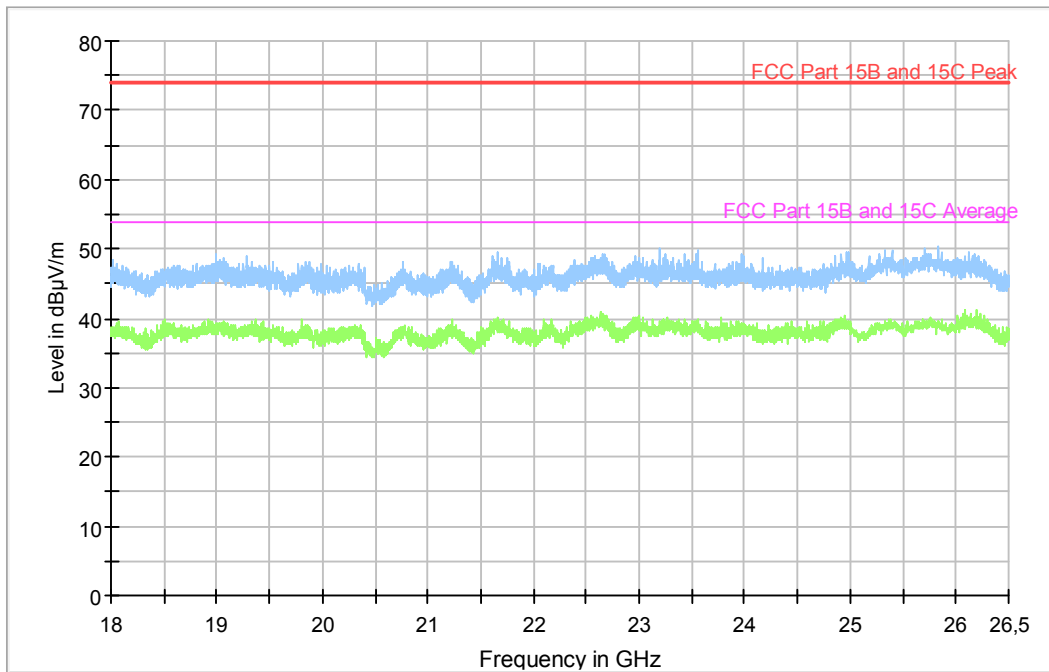
Overview sweeps performed with peak detectors, Frequency range 1 – 4 GHz

FCC 4 G - 18 G class B 3m ESU40 Continuous TT rotation



Overview sweeps performed with peak detectors, Frequency range 4 – 18 GHz

Full Spectrum



Overview sweeps performed with peak detectors, Frequency range 18-26.5 GHz

Frequency MHz	Disturbance Level dBµV/m	RBW kHz	Detector QP / AVG / Peak	Limit dBµV Peak	Margin dB	Azimuth deg	Antenna height cm	Pol. V / H
2400.0	62.4	1000	Peak	74	11.6	23	188	H
2400.1	64.1	1000	Peak	74	9.9	23	194	H
2483.5	36.4	1000	Peak	74	37.6	36.4	215	V
4809.1	49.6	1000	Peak	74	24.4	36.4	224	V
7213.5	54.1	1000	Peak	74	19.9	24.0	159.0	H
9688.7	47.8	1000	Peak	74	26.2	243.0	145.0	H
11443.7	49.2	1000	Peak	74	24.8	55.0	100.0	V
12967.8	49.5	1000	Peak	74	24.5	99.0	262.0	V
15218.9	52.5	1000	Peak	74	21.5	35.0	283.0	V
17214.6	55.6	1000	Peak	74	18.4	317.0	100.0	H

Measured level [dBµV/m] = Analyser reading [dBµV] + cable loss [dB] – preamplifier gain [dB] + antenna factor [dB/m]

Frequency MHz	Disturbance Level dB μ V/m	RBW kHz	Detector QP / AVG / Peak	Limit dB μ V AVG	Margin dB	Azimuth deg	Antenna height cm	Pol. V / H
2400.0	33.5	1000	AVG	54	20.5	23	188	H
2400.1	35.2	1000	AVG	54	54.8	23	194	H
2483.5	7.5	1000	AVG	54	46.5	36.4	215	V
4809.1	20.7	1000	AVG	54	33.3	36.4	224	V
7213.5	25.2	1000	AVG	54	28.8	24.0	159.0	H
9688.7	18.9	1000	AVG	54	35.1	243.0	145.0	H
11443.7	20.3	1000	AVG	54	33.7	55.0	100.0	V
12967.8	23.5	1000	AVG	54	30.5	99.0	262.0	V
15218.9	23.6	1000	AVG	54	30.4	35.0	283.0	V
17214.6	26.7	1000	AVG	54	27.3	317.0	100.0	H

Level is calculated from peak value using 20 LOG (Ton/100ms) = -28.87 dB correction factor.

7.4 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Measurement receiver	Rohde & Schwarz	ESU40	S13178	7/16
Test software	Rohde & Schwarz	EMC32	-	-
Horn antenna	Rohde & Schwarz	HF907	31245	11/16
Pre-amplifier	Bonn electronic		31246	7/16
2.4-2.4835 MHz Band reject filter			12389	7/2018
4GHz High pass filter	-	-	5133	-
Spectrum analyzer	Rohde & Schwarz	FSIQ40	12793	7/2016
Pre-amplifier			12335	7/2016
Horn antenna	Rohde & Schwarz		30099	10/2016

8 RECEIVER RADIATED EMISSION

Date of test:	2013-4-9/2013-3-28	Test location:	Björk hallen / Big chamber
EUT Serial:	-	Ambient temp.	25/20 °C
Tested by:	Matti Virkki	Relative humidity	31/16 %
Test result:	Pass	Margin	12.6 dB

8.1 Requirement

Reference: FCC §15.109, RSS-gen table 2 ICES-003 6.2

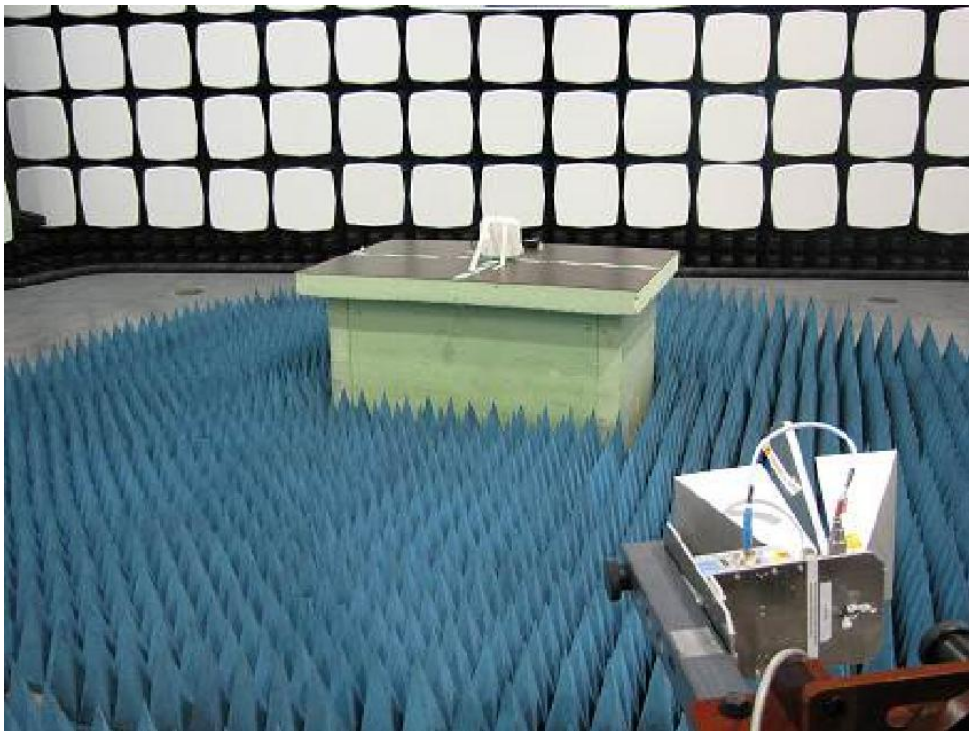
Method ANSI C63.4 2014

Frequency (MHz)	Field strength (dB μ V/m)	Measurement distance (m)
30 – 88	40.0	3
88 – 216	43.5	3
216 – 960	46.0	3
960 –	54.0	3

8.2 Test setup details

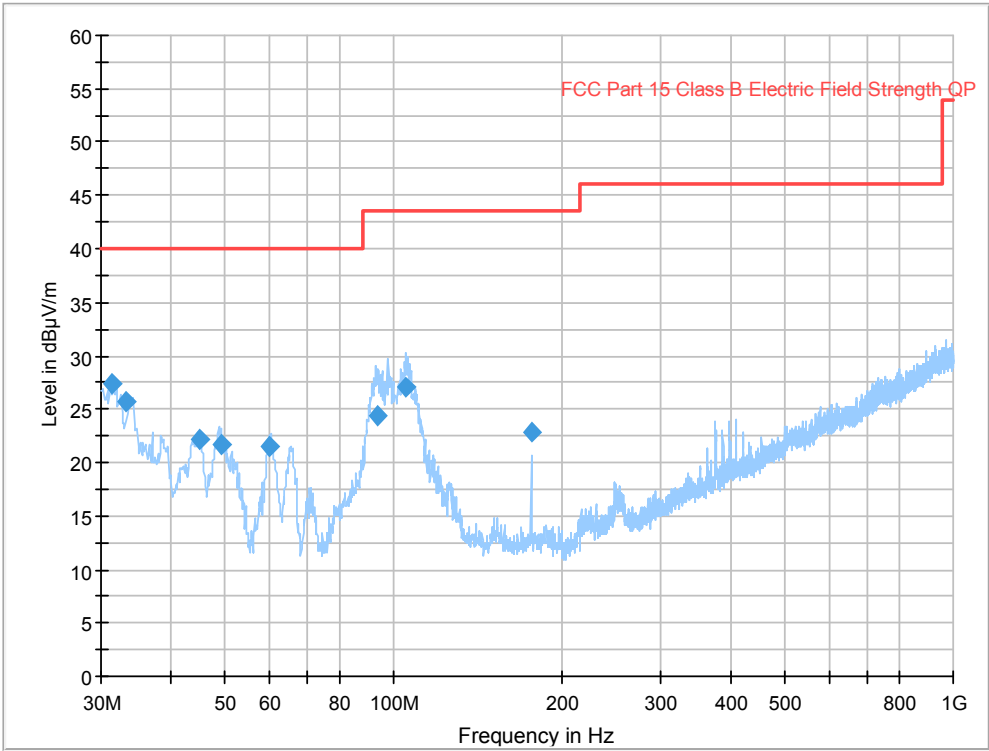
Operation mode: normal receiver on.

Test set-up photo:



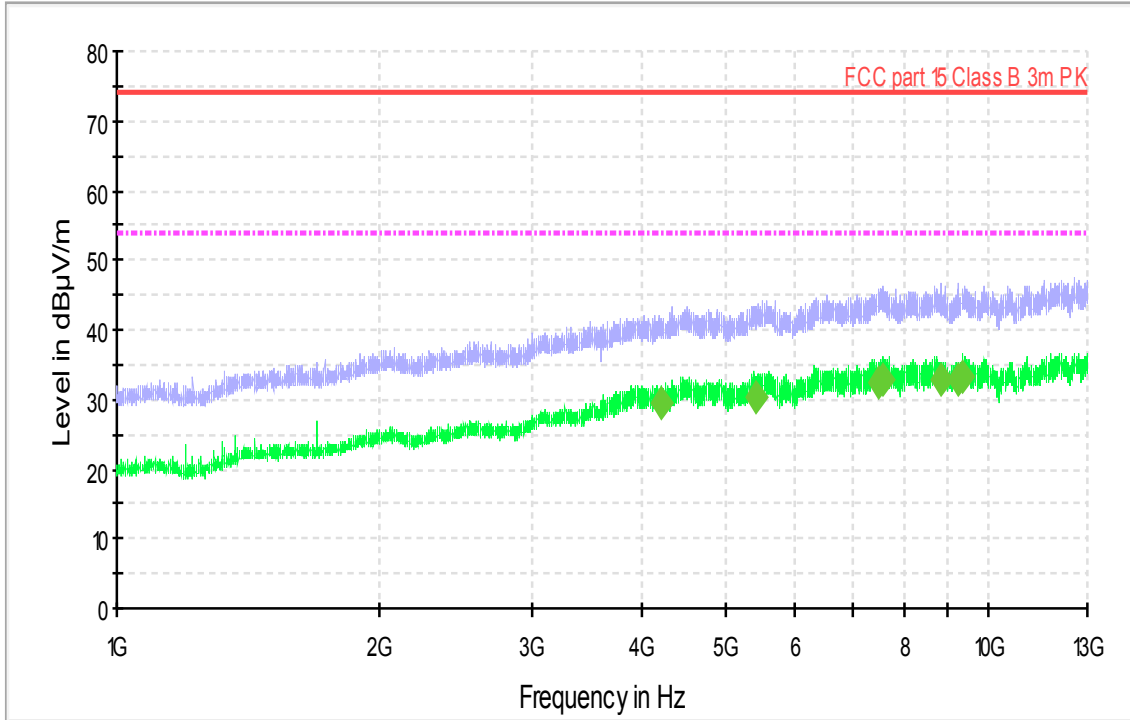
8.3 Test data 30MHz-1GHz

Full Spectrum



Frequency MHz	Disturbance Level dBµV/m	RBW kHz	Detector QP	Limit dBµV/m	Pol.	Azimuth deg	Antenna height cm	Margin dB
31.28	27.4	120	QP	40.00	V	68.0	103.0	12.6
33.20	25.8	120	QP	40.00	V	175.0	100.0	14.2
44.96	22.2	120	QP	40.00	V	133.0	100.0	17.8
49.05	21.7	120	QP	40.00	V	103.0	103.0	18.3
60.24	21.5	120	QP	40.00	V	336.0	205.0	18.5
93.18	24.3	120	QP	43.50	V	45.0	143.0	19.2
105.13	27.0	120	QP	43.50	H	83.0	225.0	16.5
176.01	22.8	120	QP	43.50	H	276.0	134.0	20.7

8.4 Test data 1-13 GHz



Frequency MHz	Disturbance Level dBμV/m	RBW kHz	Detector AV	Limit dBμV/m	Pol.	Azimuth deg	Antenna height cm	Margin dB
4214.16	43.0	1000	AV	54.0	V	101.0	121.0	31.0
5410.40	43.6	1000	AV	54.0	V	262.0	287.0	30.4
7490.44	45.8	1000	AV	54.0	H	190.0	177.0	28.2
7555.04	46.8	1000	AV	54.0	H	73.0	194.0	27.2
8832.86	47.3	1000	AV	54.0	H	231.0	288.0	26.7
9234.46	46.1	1000	AV	54.0	H	237.0	164.0	27.9
9350.01	46.5	1000	AV	54.0	H	93.0	146.0	27.5

9 VARIATION OF RADIATED SIGNAL LEVEL

Date of test:	2013-4-9	Test location:	EMC center
EUT Serial:		Ambient temp.	22 °C
Tested by:	Matti Virkki	Relative humidity	10 %
Test result:	Pass		

9.1 Requirement

Reference: FCC §15.31 (e))

Variation nominal operating voltage ± 15 %**9.2 Test data**

Test Conditions		Carrier level dBm
Temperature °C	Voltage V AC	
Nominal (20)	85% of nominal = 102	1.52
	Nominal = 120	1.52
	115% of nominal = 138	1.52

9.3 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyzer	Rohde & Schwarz	FSIQ40	12793	7/2013

10 6DB OCCUPIED BANDWIDTH TEST

Date of test:	2015-8-27	Test location:	EMC Center
EUT Serial:	-	Ambient temp.	22 °C
Tested by:	Matti Virkki	Relative humidity	43 %
Test result:	Pass	Margin:	978.6

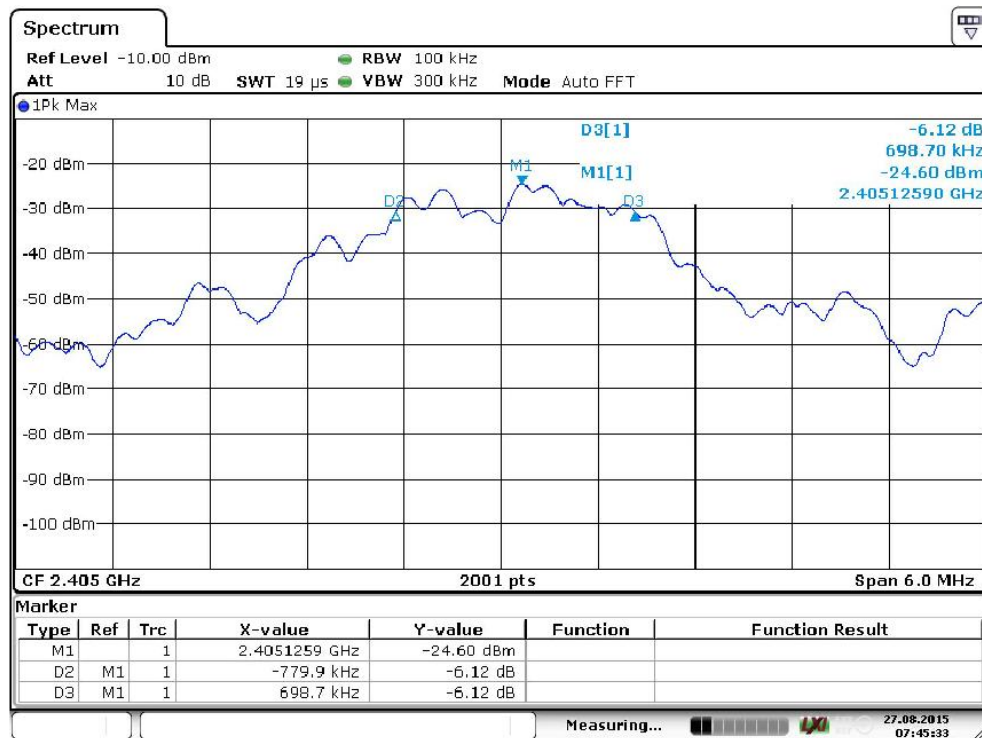
10.1 Requirement

The minimum 6 dB bandwidth shall be at least 500 kHz.

Reference: FCC §15.247(a)(2) RSS-247 5.2(1)

Method: ANSI C63.10-2013: section 11.8

10.2 Test data



Date: 27.AUG.2015 07:45:33

Result	Limit	Margin
1478.6	>500 kHz	978.6 kHz

10.3 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyzer	Rohde & Schwarz	FSV	S32594	7/16

11 99% OCCUPIED BANDWIDTH

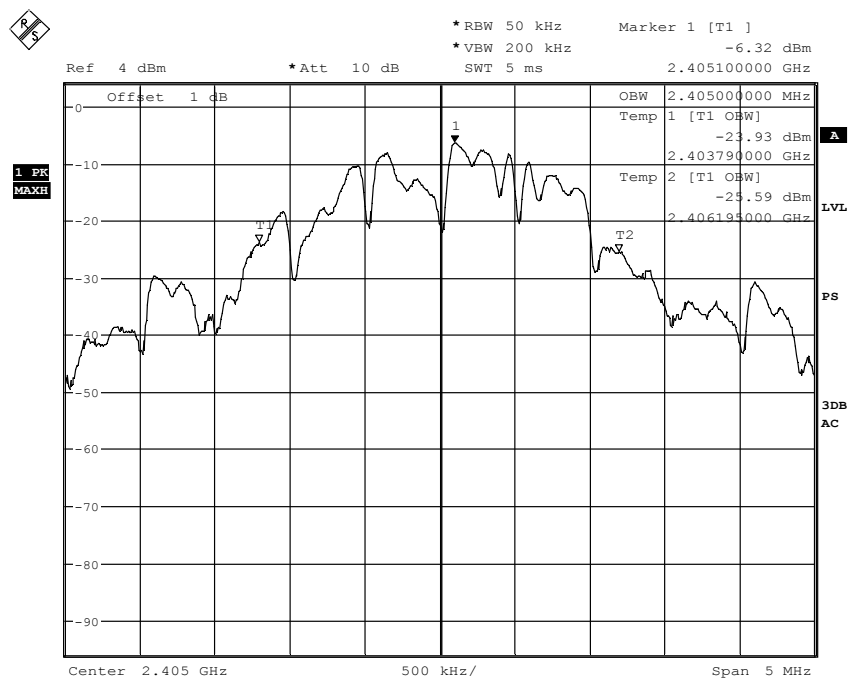
Date of test:	2013-3-20	Test location:	EMC Center
EUT Serial:	-	Ambient temp.	21 °C
Tested by:	Matti Virkki	Relative humidity	15 %
Test result:	Pass	Margin:	-

11.1 Requirement

Reference RSS-GEN 6.6

Method: Spectrum analyser's occupied power bandwidth function was used to calculate the 99% bandwidth

11.2 Test data



Date: 20.MAR.2013 12:59:42

Result	Limit	Margin
2405.0 kHz	-	-

11.3 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyzer	Rohde & Schwarz	ESU40	S13178	7/13

12 CONDUCTED OUTPUT POWER

Date of test:	2015-8-28	Test location:	EMC Center
EUT Serial:	-	Ambient temp.	22 °C
Tested by:	Matti Virkki	Relative humidity	43 %
Test result:	Pass	Margin:	28.5 dB

12.1 Requirement

The maximum peak conducted output power of the intentional radiator shall not exceed 1 watt.
Reference: FCC §15.247(b)(3) RSS-247 5.4 (4)
Method: ANSI C63.10-2013 section 11.9

12.2 Test data



Date: 27.AUG.2015 09:30:20

Analyser reading dBm	Cable + attenuator losses dB	Result dBm	Limit	Margin
-13.80	15.3	1.5	30 dBm = 1W	28.5 dB

12.3 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyzer	Rohde & Schwarz	FSV	S32594	7/16

13 BANEDGE MEASUREMENT

Date of test:	2013-3-20	Test location:	EMC Center
EUT Serial:	-	Ambient temp.	21 °C
Tested by:	Matti Virkki	Relative humidity	15 %
Test result:	Pass	Margin:	19.80 dB

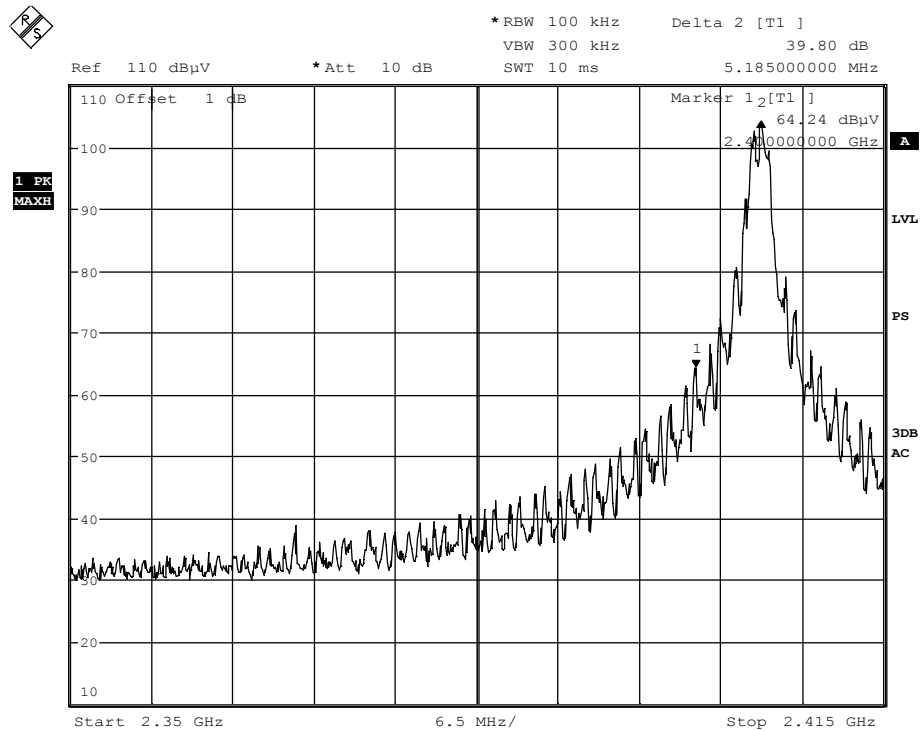
13.1 Requirement

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth

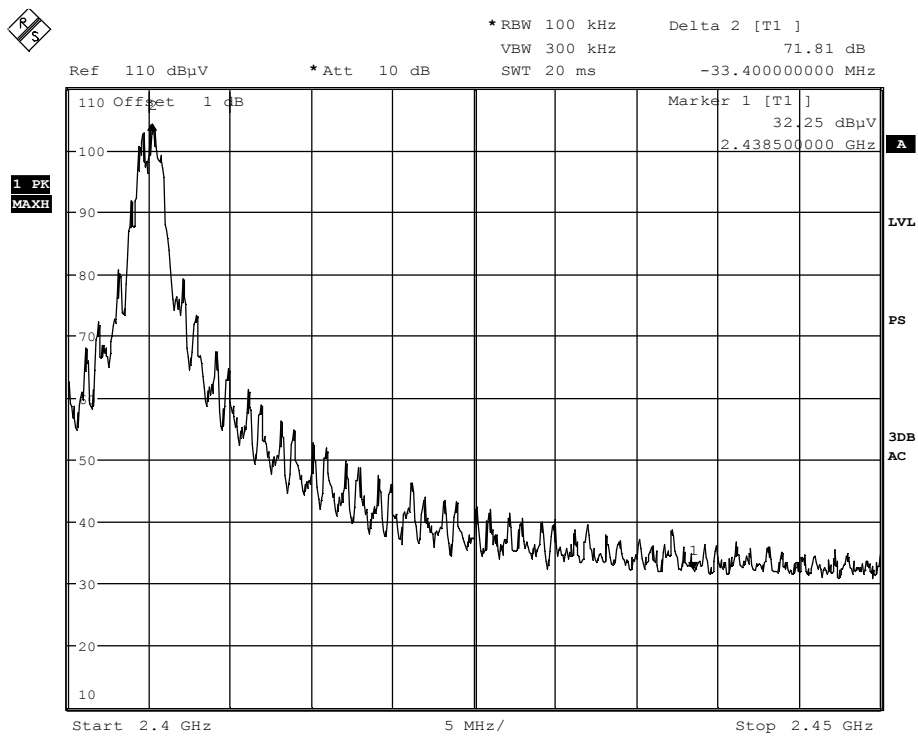
Reference: FCC §15.247(d) RSS-247 5.5

Method: ANSI C63.10-2013: section 11.13.3.2

13.2 Test data



Date: 20.MAR.2013 13:12:23



Date: 20.MAR.2013 13:14:05

Result		Limit	Margin
Lower edge 39.80 dB	Upper edge 71.81 dB	20 dB	19.80dB

13.3 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyzer	Rohde & Schwarz	ESU40	S13178	7/13

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyzer	Rohde & Schwarz	ESIQ40	12793	7/2013

15 DUTY CYCLE

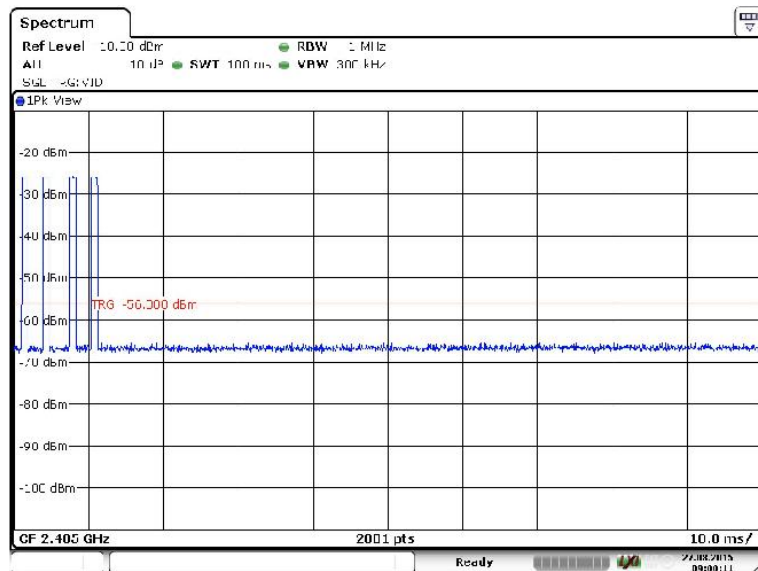
Date of test:	2015-08-28	Test location:	EMC Center
EUT Serial:	-	Ambient temp.	22 °C
Tested by:	Matti Virkki	Relative humidity	19 %
Test result:	Pass	Margin:	13.71 dB

15.1 Requirement

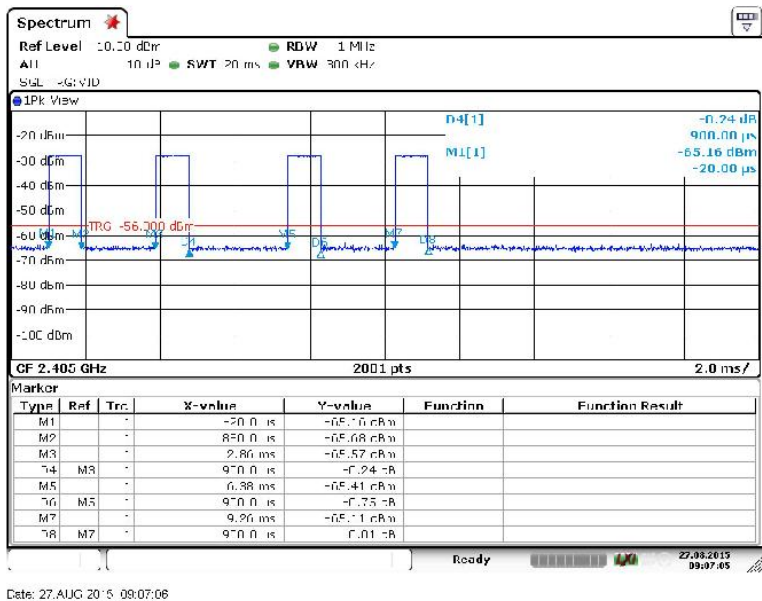
To obtain emission average value from measured peak values transmitter duty cycle over 100 ms was measured and correction factor 20 LOG (Ton / 100 ms) calculated.

Reference: FCC §15.35(c) RSS-Gen 6.10

Method: Method: ANSI C63.10-2013: section 7.5

15.2 Test data

Date: 27.AUG 2015 09:00:11



Transmitter on time	Correction factor
4 * 900 μs = 3.6 ms	-28.87 dB

15.3 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyzer	Rohde & Schwarz	FSV	S32594	7/2016

16 UNCERTAINTIES SUMMARY

The measurement uncertainty describes the overall uncertainty of the given measured value during operation of the EUT.

Measurement uncertainty is calculated in accordance with EA-4/02-1997.

The measurement uncertainty is given with a confidence of 95% (k=2).

Radiated disturbance, field strength, 30 MHz - 1000 MHz

30 to 300 MHz at 3 m

± 4,7 dB

200 to 1000 MHz at 3 m

± 4,8 dB

Radiated disturbance, field strength, 1 to 40 GHz in Semi Anechoic Chambers "Stora Hallen" and "Björkhallen"

1 to 18 GHz with filter or attenuator

± 5,4 dB

1 to 18 GHz without filter or attenuator

± 5,2 dB

18 to 26 GHz without filter or attenuator

± 5,5 dB

26 to 40 GHz without filter or attenuator

± 5,6 dB

Radiated disturbance, field strength, 1 to 40 GHz in Fully Anechoic Chamber "Radiohallen"

18 to 26,5 GHz without filter or attenuator

± 5,4 dB

Conducted disturbances at the antenna port on radio equipment

Frequency range 9 kHz – 1 GHz

± 0,9 dB

Frequency range 1 GHz – 7 GHz

± 1,4 dB

Frequency range 7 GHz -18GHz

± 2,4 dB

Frequency range 18 GHz -26,5GHz

± 3,0 dB

Output power

Digital signals, conducted

± 0,6 dB

17 PHOTO OF THE EUT





-- END OF REPORT --