

Test Report

INTENTIONAL RADIATOR TESTS ACCORDING TO FCC PART 15 C and INDUSTRY CANADA REQUIREMENTS

Equipment Under Test: Training computer
Model: RCX5
Type: -
Manufacturer: Polar Electro Oy
Professorintie 5
FI-90440 KEMPELE
FINLAND
Customer: Polar Electro Oy
Professorintie 5
FI-90440 KEMPELE
FINLAND
FCC Rule Part: 15.249: 2008
IC Rule Part: RSS-210, Issue 8, 2010



Date: 31.03.2011
Issued by: 
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RF Testing Engineer

Date: 31.03.2011
Checked by: 
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Technical Manager

PRODUCT DESCRIPTION	3
Equipment Under Test (EUT)	3
Description of the EUT	3
Ratings and declarations	3
Power Supply	3
Mechanical Size of the EUT	4
Peripherals	4
Samples	4
GENERAL REMARKS	5
Disclaimer	5
SUMMARY OF TESTING	6
EUT Test Conditions During Testing	6
TEST RESULTS	7
Field Strength of Fundamental	7
Transmitter Radiated Emissions 30 – 26 500 MHz	9
Receiver Radiated Emissions 30 – 26 500 MHz	22
20 dB Bandwidth	26
99% Occupied Bandwidth	30
Band Edge Radiated Emissions	34
LIST OF TEST EQUIPMENTS	36

Equipment Under Test (EUT)

Training computer	
Brand:	POLAR
Model:	RCX5
Type:	-
Serial no:	-
HW version:	39932/00-REC RCX5 BLK
SW version:	46296
FCC ID number:	INW-V1
Industry Canada number:	6248A-V1

Description of the EUT

The EUT is a training computer for personal use. It monitors a heart beat rate of the user and also other different wireless sensors for example speed sensor and GPS sensor can be paired with it. After the training stored results can be uploaded to the computer via data link (external USB stick) which is connected to the computer.

Classification of the device

Fixed device	<input type="checkbox"/>
Mobile Device (Human body distance > 20cm)	<input type="checkbox"/>
Portable Device (Human body distance < 20cm)	<input checked="" type="checkbox"/>

Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing

Ratings and declarations

Operating Frequency Range (OFR) TX mode:	2403 - 2482 MHz
TX Channels (advertising mode):	3
TX Channels (connect mode):	25
Operating Frequency Range (OFR) RX mode:	2403 - 2482 MHz
RX Channels	2409, 2441, 2471, 2473, 2475 MHz
Channel bandwidth:	1.8910 MHz
Effective radiated power:	0.00024 mW (-36.18 dBm)
Modulation:	GFSK
Antenna type and gain:	0dBi

Power Supply

Rated voltage:	1 x 3 VDC battery (CR2032)
Operating voltage:	3.0VDC

Mechanical Size of the EUT

Length: 48 mm Width: 42 mm Height: 13 mm

Peripherals

No peripherals were used during the tests.

Samples

Sample No. 1: EUT uses its own internal antenna.

Sample No. 2: Measurement cable was connected to the EUT by using temporary antenna connector.

Disclaimer

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SUMMARY OF TESTING

Test Specification	Description of Test	Result
§15.249 (a) / RSS-210, A2.9	Field Strength of Fundamental	PASS
§15.249 (a) (d) / RSS-210, 2.6	Spurious Radiated Emissions	PASS
§15.249 (d) / RSS-210, A2.9	Transmitter Band Edge Radiated Emissions	PASS
§15.215(c)	20 dB Bandwidth	PASS
RSS-GEN 4.6.1	99% Bandwidth	PASS
§15.109 / RSS-GEN 7.2.3 ICES-003	Receiver Radiated Emissions	PASS

Test methods

Reference	ANSI C63.4 (2009) 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
	ANSI C63.10 (2009) American National Standard for Testing Unlicensed Wireless Devices

EUT Test Conditions During Testing

The EUT was in continuous transmit mode with 100 % duty cycle during all the tests.

In the radiated emission test the EUT was tested in three different orthogonal axes (X, Y and Z) in order to find out the worst direction. The worst direction result was reported.

The EUT uses two different transmission modes, advertising mode and connect mode. In advertising mode EUT uses three channels and connect mode 25 channels for data transmission. For both modes transmission technique and the modulation are the same.

Channels tested	Channel ID	Channel Frequency MHz
	Bottom	2403
	Middle	2441
	Top	2482

Test Facility

<input type="checkbox"/> Testing Location / address: FCC registration number: 90598	SGS Fimko Ltd Särkiniementie 3 FI-00210, HELSINKI FINLAND
<input checked="" type="checkbox"/> Testing Location / address: FCC registration number: 178986 Industry Canada registration number: 8708A-2	SGS Fimko Ltd Karakaarenkuja 4 FI-02610, ESPOO FINLAND

Field Strength of Fundamental

Standard: ANSI C63.10 (2009)
Tested by: JJM
Date: 9.3 – 10.3.2011
Humidity: 42 - 45%
Temperature: 21.0 - 21.5°C
Barometric pressure 1001.0 – 1002.9 mbar
Measurement uncertainty ± 4.51 dB Level of confidence 95 % (k = 2)

FCC Rule: 15.249(a)

Channel bottom

Peak level

Frequency (MHz)	MaxPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol.	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
2403.400000	93.9	1000.000	218.0	H	4.0	20.1	114.0	Complies

Average level

Frequency (MHz)	Average (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol.	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
2403.400000	57.4	1000.000	218.0	H	4.0	36.6	94.0	Complies

Channel middle

Peak level

Frequency (MHz)	MaxPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol.	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
2441.400000	95.9	1000.000	169.0	H	0.0	18.1	114.0	Complies

Average level

Frequency (MHz)	Average (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol.	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
2441.400000	59.4	1000.000	169.0	H	0.0	34.6	94.0	Complies

Channel high

Peak level

Frequency (MHz)	MaxPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol.	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
2481.600000	95.7	1000.000	156.0	H	0.0	18.3	114.0	Complies

Average level

Frequency (MHz)	Average (dBµV/m)	Bandwidth (kHz)	Height (cm)	Pol.	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
2441.400000	59.2	1000.000	156.0	H	0.0	34.8	94.0	Complies

Note:

Peak value includes transducer factors (antenna, amplifier, filters) and cable attenuations.

The peak level was measured in continuous transmit mode (100 % duty cycle).

According to manufactures declaration the EUT transmits one 343µs burst and 4*367µs burst in one second period.

The average level was calculated by subtracting the correction factor from the maximum measured peak level as stated in Part 15.35 (c).

The correction was calculated by using the formula $20\log((343\mu s+367\mu s*4)/100ms) = -36.5dB$.

Transmitter Radiated Emissions 30 – 26 500 MHz

Standard ANSI C63.10 (2009)
Tested by: JJM
Date: 9.3 – 10.3, 30.3.2011
Humidity: 41 - 45%
Temperature: 20.8 - 21.5°C
Barometric pressure 1001.0 – 1008.5 mbar
Measurement uncertainty ± 4.51 dB Level of confidence 95 % (k = 2)

FCC Rule: 15.249(a) (d) (e), 15.209(a)

Measured Values In The Frequency Range 30 MHz - 1000 MHz.

Channel bottom

Radiated Emission FCC Part 15 Class B 30-1000MHz 3m

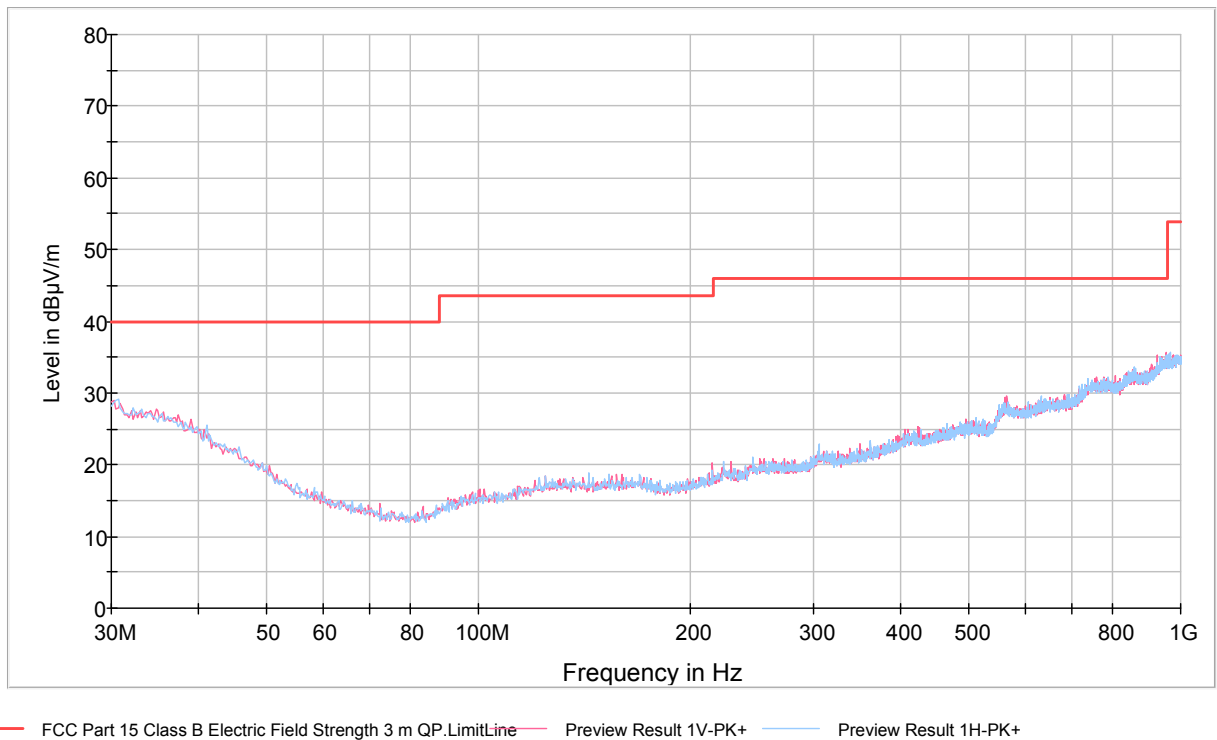


Figure 1. Measured curve with Peak-detector.

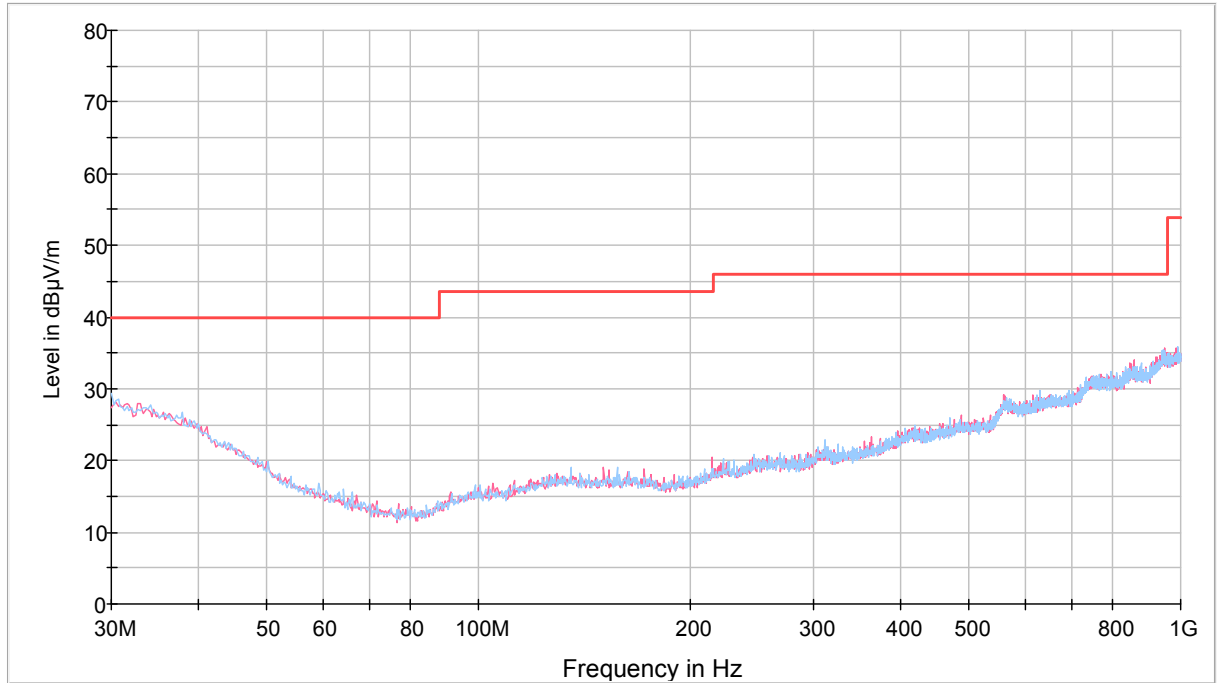
Final results measured with QP-detector.

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
30.773077	20.1	120.000	204.0	H	248.0	19.9	40.0	Complies
40.653590	16.2	120.000	395.0	H	67.0	23.8	40.0	Complies
562.080000	19.2	120.000	339.0	H	245.0	26.8	46.0	Complies
888.020000	22.7	120.000	325.0	H	138.0	23.3	46.0	Complies
956.460000	24.5	120.000	175.0	H	218.0	21.5	46.0	Complies

Quasi-Peak value includes transducer factors (antenna, amplifier, filters) and cable attenuations.

Channel middle

Radiated Emission FCC Part 15 Class B 30-1000MHz 3m



— FCC Part 15 Class B Electric Field Strength 3 m QP.LimitLine — Preview Result 1V-PK+ — Preview Result 1H-PK+

Figure2. Measured curve with Peak-detector

Final results measured with QP-detector.

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
30.160000	20.6	120.000	254.0	H	149.0	19.4	40.0	Complies
38.292564	17.5	120.000	286.0	H	247.0	22.5	40.0	Complies
157.620000	8.8	120.000	120.0	H	11.0	34.7	43.5	Complies
559.320000	19.0	120.000	145.0	V	228.0	27.0	46.0	Complies
945.160000	24.5	120.000	197.0	H	49.0	21.5	46.0	Complies
992.240000	24.8	120.000	100.0	H	285.0	29.1	53.9	Complies

Quasi-Peak value includes transducer factors (antenna, amplifier, filters) and cable attenuations.

Channel top

Radiated Emission FCC Part 15 Class B 30-1000MHz 3m

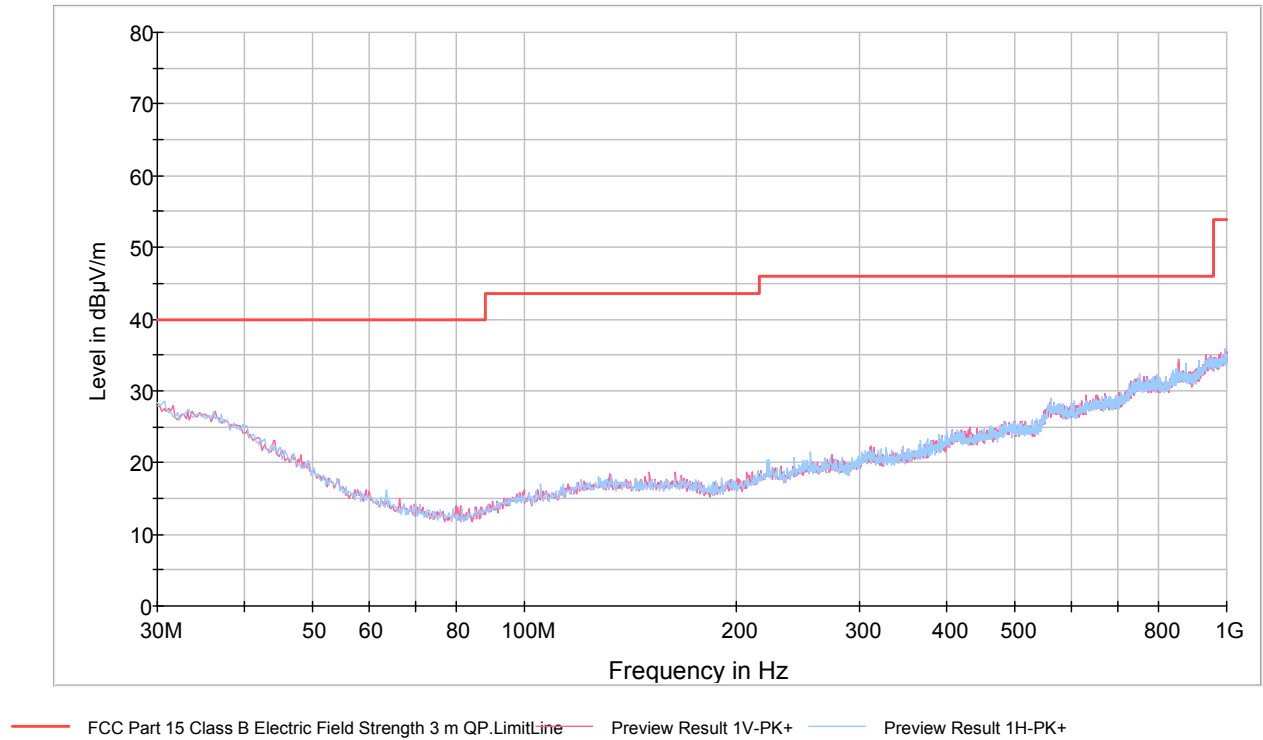


Figure 3. Measured curve with Peak-detector.

Final results measured with QP-detector.

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
30.153077	20.7	120.000	391.0	H	338.0	19.3	40.0	Complies
35.942051	18.7	120.000	175.0	V	325.0	21.3	40.0	Complies
39.760513	17.0	120.000	338.0	H	100.0	23.0	40.0	Complies
606.500000	18.7	120.000	184.0	H	239.0	27.3	46.0	Complies
852.220000	23.0	120.000	160.0	V	108.0	23.0	46.0	Complies
943.940000	24.5	120.000	184.0	H	11.0	21.5	46.0	Complies

Quasi-Peak value includes transducer factors (antenna, amplifier, filters) and cable attenuations.

Measured Peak and Average Values In The Frequency Range 1 000 MHz – 4 000 MHz.

Channel bottom

Radiated Emission FCC Part 15 Class B 1-18GHz 3m

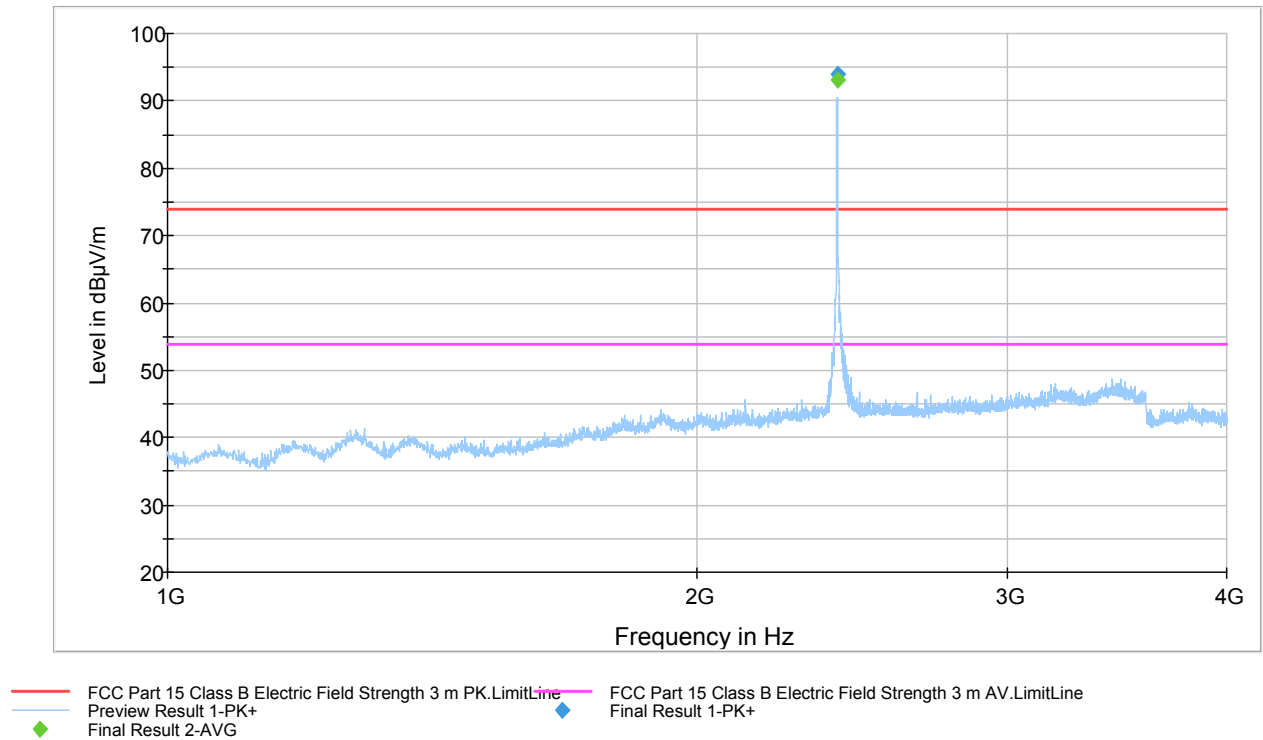


Figure 4. Measured curves with Peak-detector.

**No final measurements were made since the peak emission level is below the average limit.
The emission which exceeds the limit is the carrier.**

Channel middle

Radiated Emission FCC Part 15 Class B 1-18GHz 3m

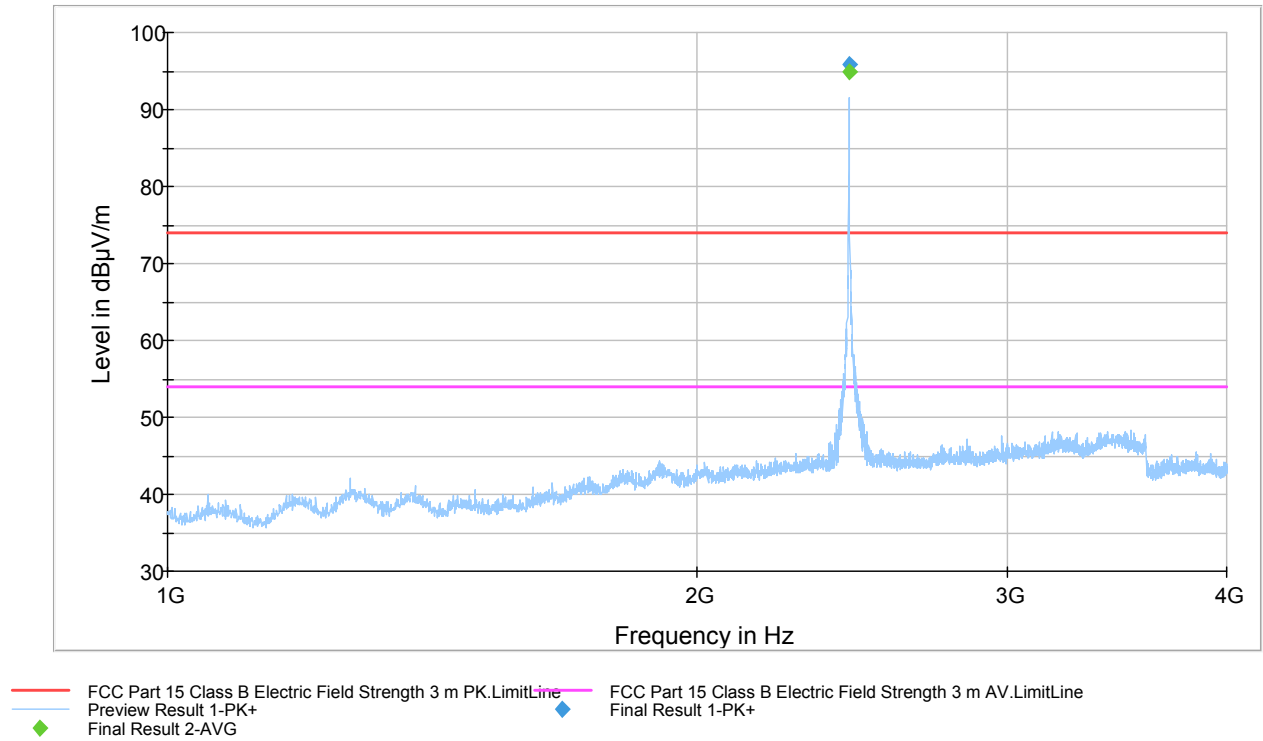


Figure 5. Measured curves with Peak-detector.

No final measurements were made since the peak emission level is below the average limit. The emission which exceeds the limit is the carrier.

Channel top

Radiated Emission FCC Part 15 Class B 1-18GHz 3m

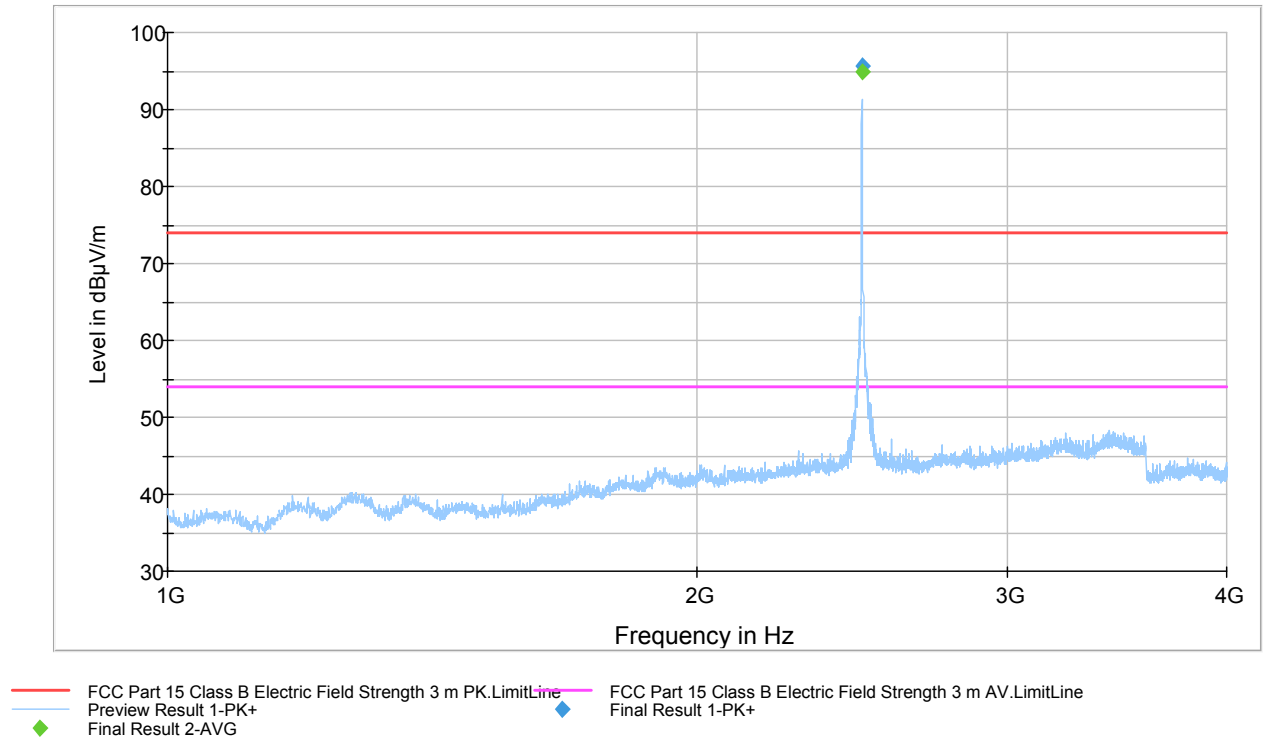


Figure 6. Measured curves with Peak-detector.

No final measurements were made since the peak emission level is below the average limit. The emission which exceeds the limit is the carrier.

Measured Peak Values In The Frequency Range 4000 MHz – 18000 MHz.

Channel bottom

Radiated Emission FCC Part 15 Class B 1-18GHz 3m

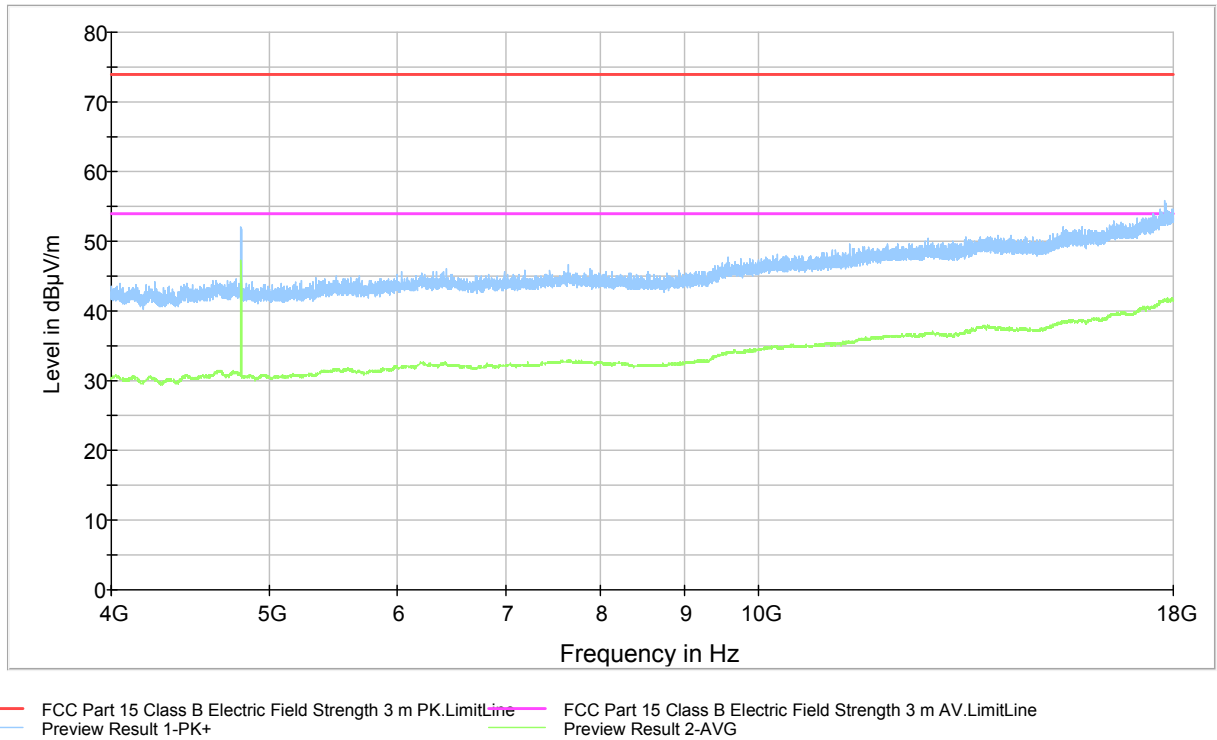


Figure 7. Measured curves with Peak- and Average-detector.

Final Peak results.

Frequency (MHz)	MaxPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
4806.203400	51.9	1000.000	155.0	H	8.0	22.1	74.0	Complies
7184.600000	45.2	1000.000	264.0	V	4.0	28.8	74.0	Complies
9582.000000	47.7	1000.000	188.0	V	100.0	26.3	74.0	Complies
17091.600000	52.3	1000.000	158.0	H	24.0	21.7	74.0	Complies
17779.800000	53.7	1000.000	158.0	V	7.0	20.3	74.0	Complies

Peak value includes transducer factors (antenna, amplifier, filters) and cable attenuations.

Final Average results.

Frequency (MHz)	Average (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)	Comment
4806.203400	15.4	1000.000	155.0	V	8.0	38.6	54.0	Complies
7184.600000	8.7	1000.000	264.0	V	4.0	45.3	54.0	Complies
9582.000000	11.2	1000.000	188.0	V	100.0	42.8	54.0	Complies
17091.600000	15.8	1000.000	158.0	H	24.0	38.2	54.0	Complies
17779.800000	17.2	1000.000	158.0	V	7.0	36.8	54.0	Complies

Channel middle

Radiated Emission FCC Part 15 Class B 1-18GHz 3m

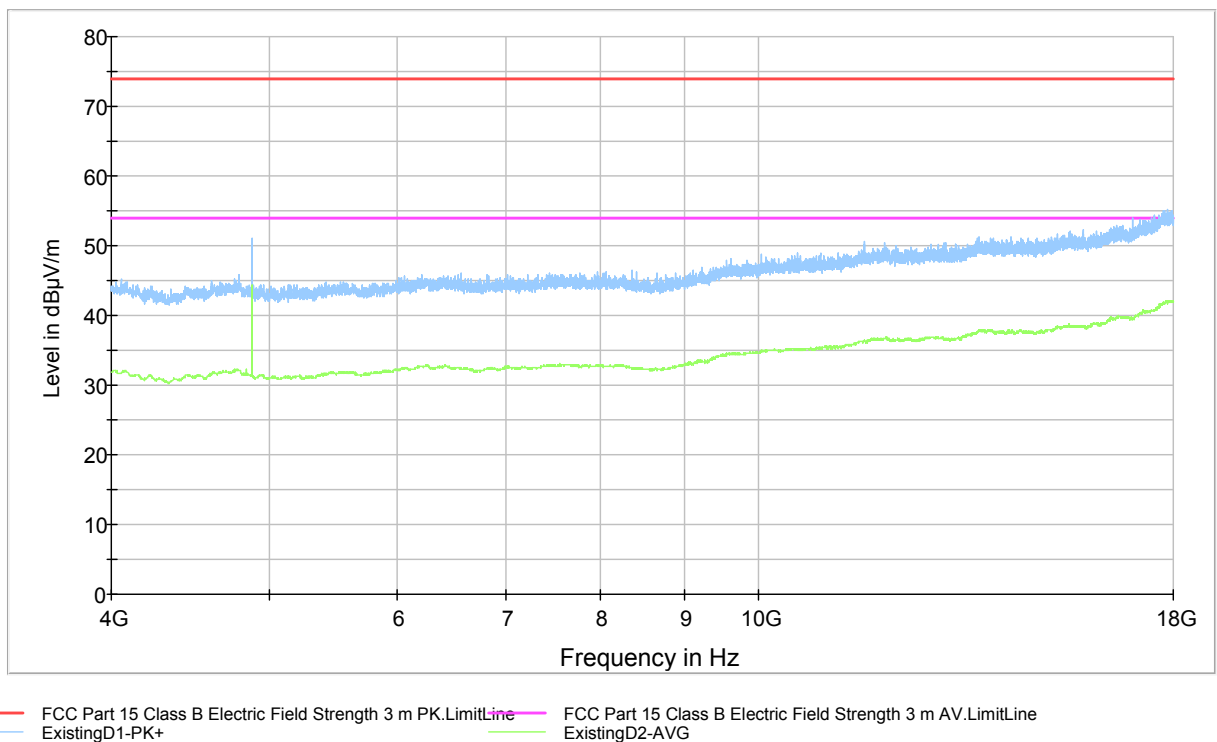


Figure 8. Measured curves with Peak- and Average-detector.

Final Peak results.

Frequency (MHz)	MaxPeak (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)	Comment
4882.100000	53.0	1000.000	122.0	V	16.0	21.0	74.0	Complies
7216.000000	45.4	1000.000	247.0	H	264.0	28.6	74.0	Complies
9621.600000	47.4	1000.000	106.0	V	11.0	26.6	74.0	Complies
11952.800000	49.4	1000.000	156.0	H	91.0	24.6	74.0	Complies
17863.400000	53.6	1000.000	115.0	V	195.0	20.4	74.0	Complies

Peak value includes transducer factors (antenna, amplifier, filters) and cable attenuations.

Final Average results.

Frequency (MHz)	Average (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
4882.100000	16.5	1000.000	122.0	V	16.0	37.5	54.0	Complies
7216.000000	8.9	1000.000	247.0	H	264.0	45.1	54.0	Complies
9621.600000	10.9	1000.000	106.0	V	11.0	43.1	54.0	Complies
11952.800000	12.9	1000.000	156.0	H	91.0	41.1	54.0	Complies
17863.400000	17.1	1000.000	115.0	V	195.0	36.9	54.0	Complies

Channel high

Radiated Emission FCC Part 15 Class B 1-18GHz 3m

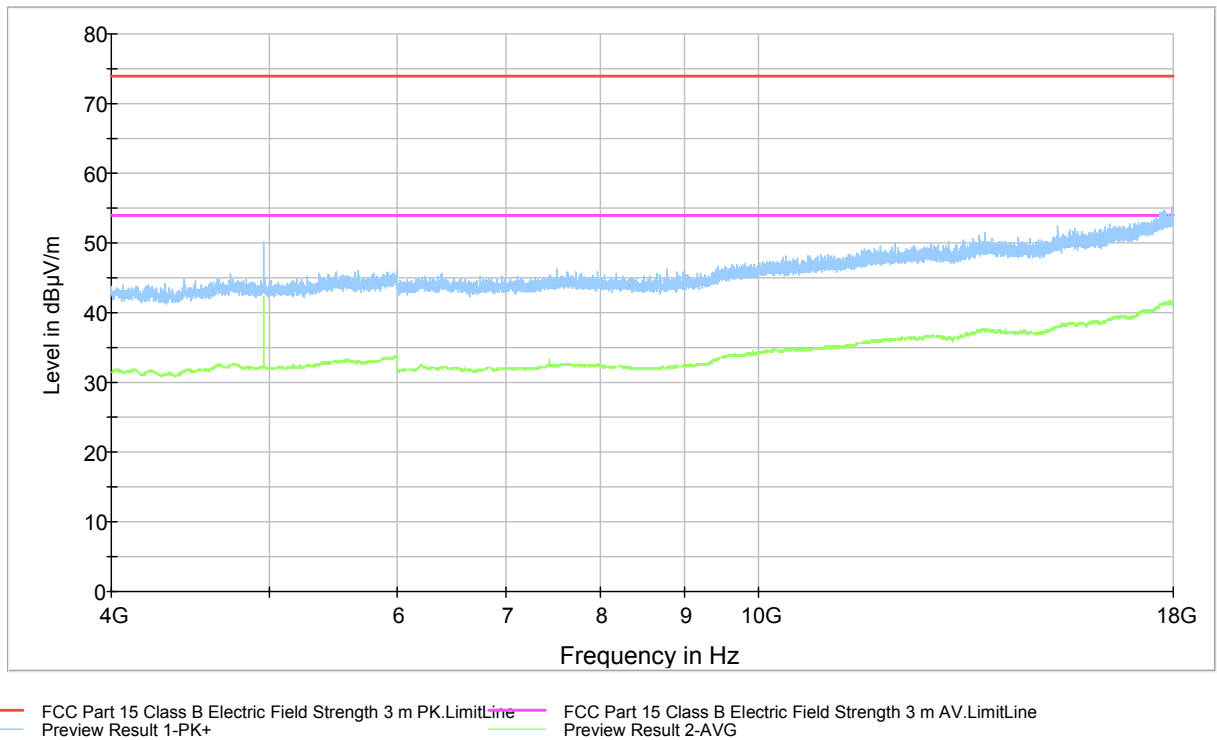


Figure 9. Measured curves with Peak- and Average-detector.

Final Peak results.

Frequency (MHz)	MaxPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
4964.000000	49.3	1000.000	135.0	V	47.0	24.7	74.0	Complies
7456.000000	46.2	1000.000	100.0	H	78.0	27.8	74.0	Complies
9924.400000	47.4	1000.000	118.0	H	285.0	26.6	74.0	Complies
17973.400000	53.5	1000.000	142.0	V	187.0	20.5	74.0	Complies

Peak value includes transducer factors (antenna, amplifier, filters) and cable attenuations.

Final Average results.

Frequency (MHz)	Average (dB μ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)	Comment
4964.000000	12.8	1000.000	135.0	V	47.0	41.2	54.0	Complies
7456.000000	9.7	1000.000	100.0	H	78.0	44.3	54.0	Complies
9924.400000	10.9	1000.000	118.0	H	285.0	43.1	54.0	Complies
17973.400000	17.0	1000.000	142.0	V	187.0	37.0	54.0	Complies

The peak level was measured in continuous transmit mode (100 % duty cycle).

According to manufactures declaration the EUT transmits one 343 μ s burst and 4*367 μ s burst in one second period.

The average level was calculated by subtracting the correction factor from the maximum measured peak level as stated in Part 15.35 (c).

The correction was calculated by using the formula $20\log((343\mu s + 367\mu s * 4) / 100ms) = -36.5dB$.

Measured Peak Values In The Frequency Range 18000 MHz – 26500 MHz.

Channel bottom

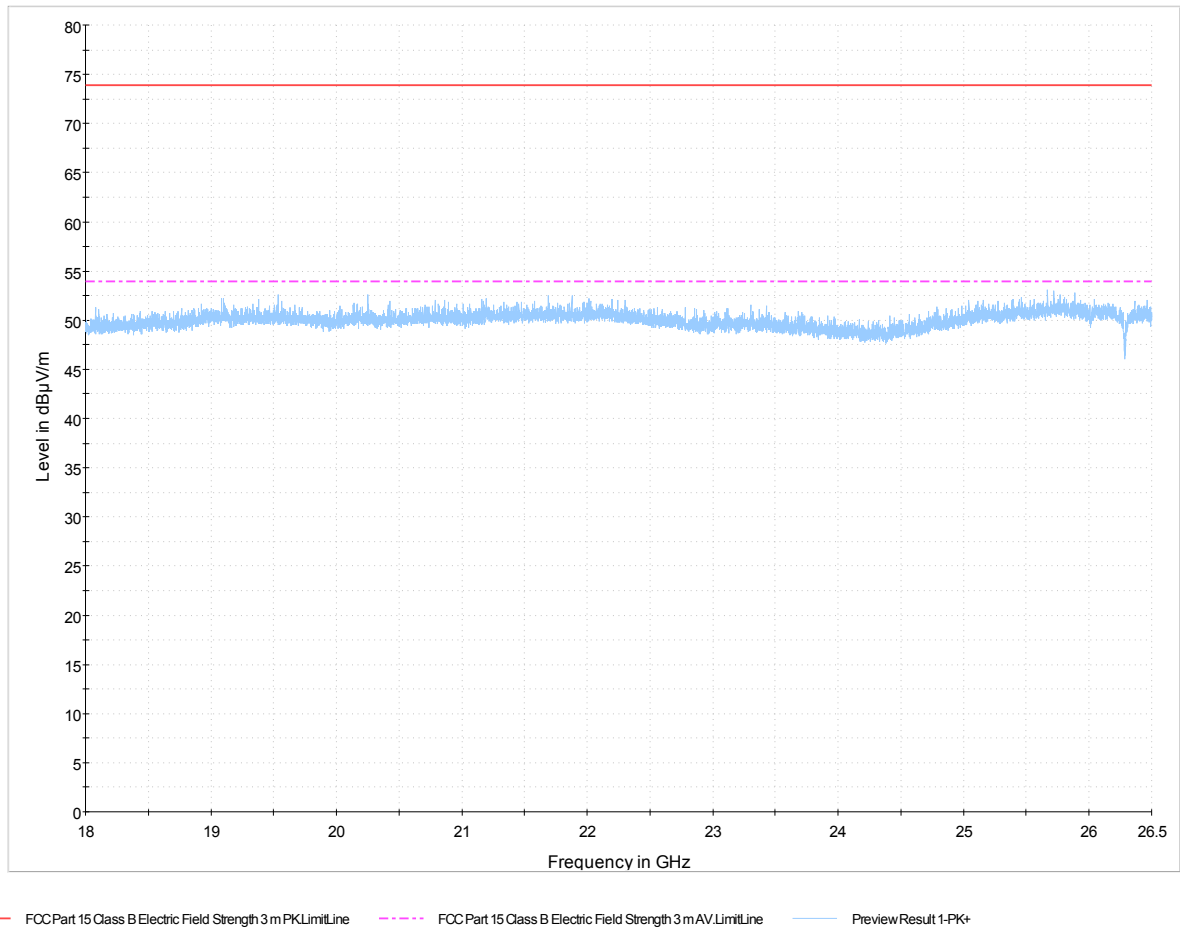
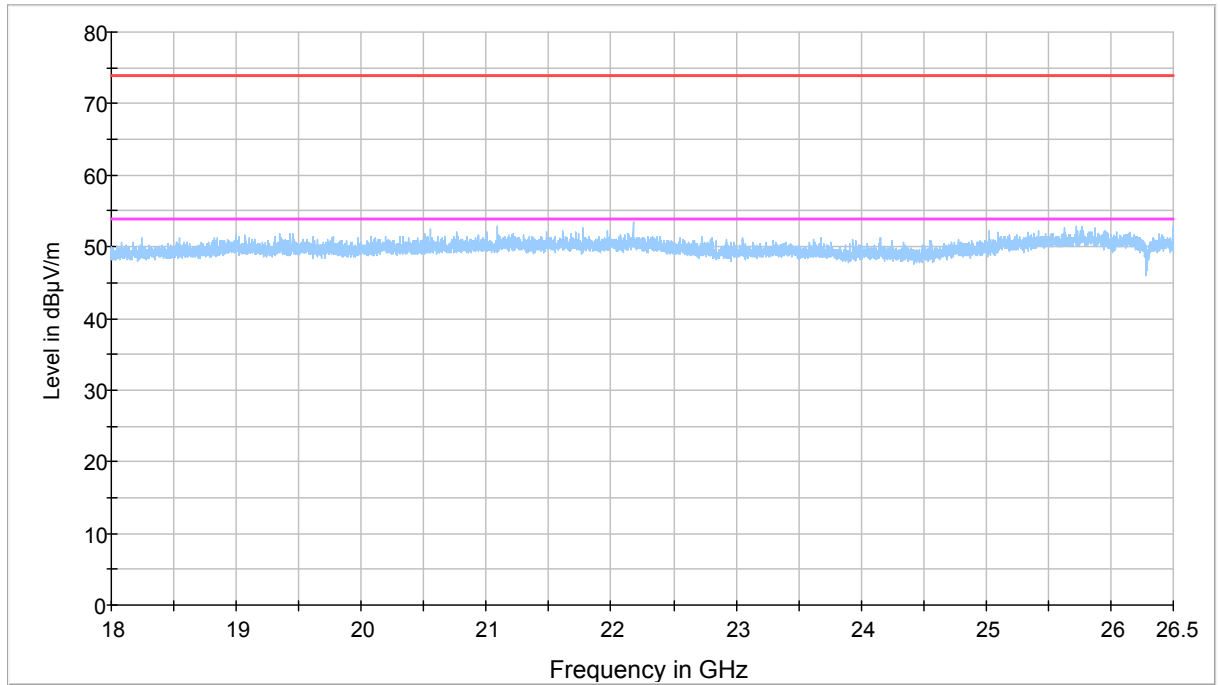


Figure 10. Measured curves with peak-detector.

No final measurements were made since the peak emission level is below the average limit.

Channel middle

Radiated Emission FCC Part 15 Class B 18-26.5GHz at 3m



— FCC Part 15 Class B Electric Field Strength 3 m PK.LimitLine — FCC Part 15 Class B Electric Field Strength 3 m AV.LimitLine — Preview Result 1-PK+

Figure 11. Measured curves with peak-detector.

No final measurements were made since the peak emission level is below the average limit.

Channel top

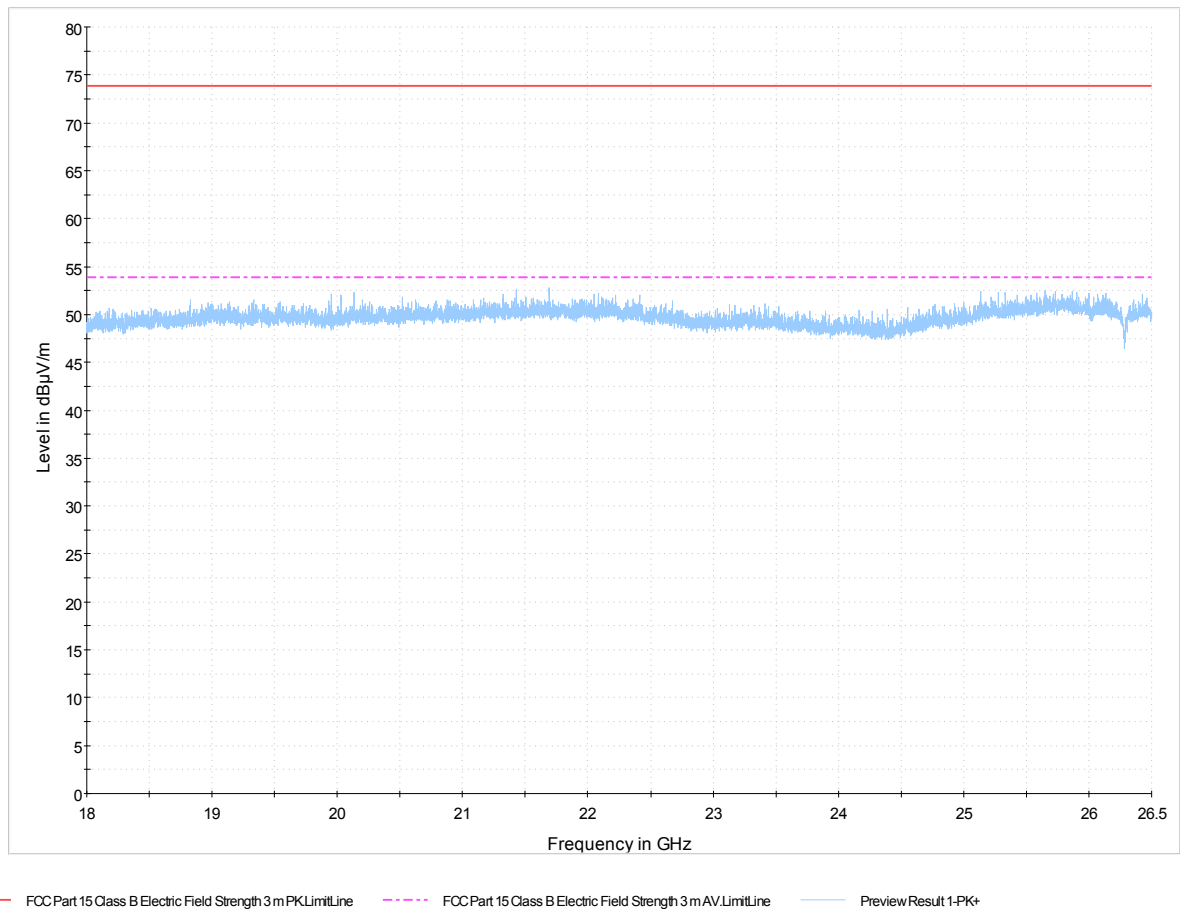


Figure 10. Measured curves with peak-detector.

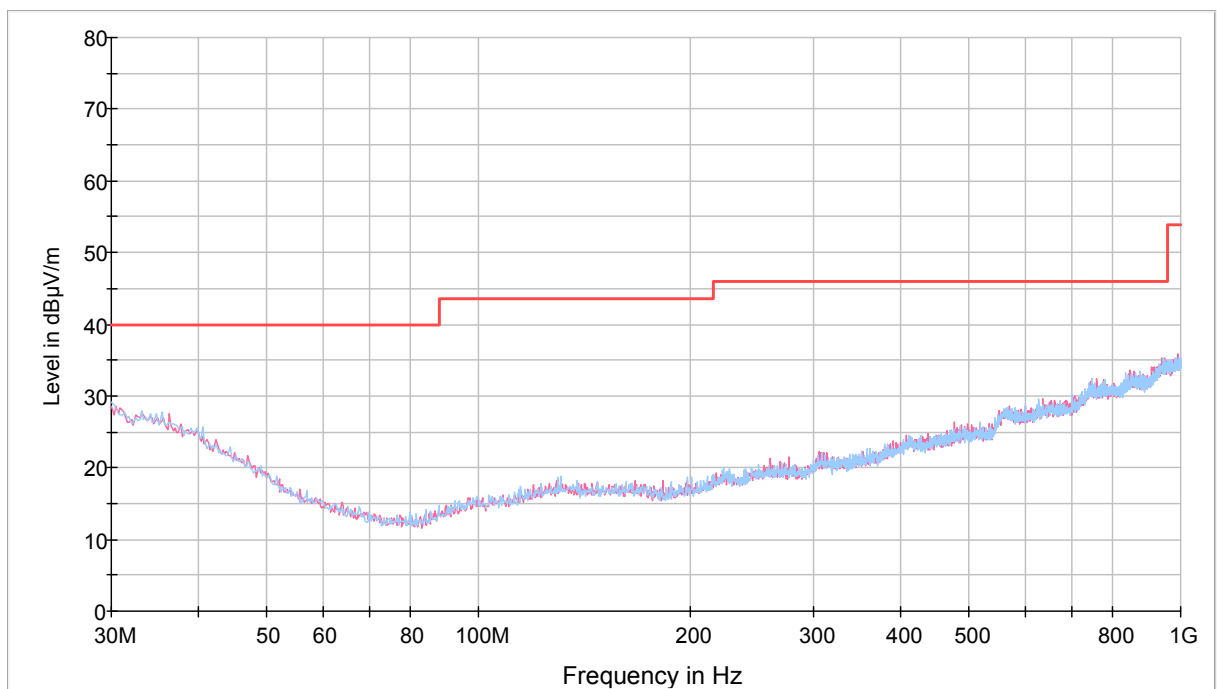
No final measurements were made since the peak emission level is below the average limit.

Receiver Radiated Emissions 30 – 26 500 MHz

Standard: ANSI C63.4 (2009)
Tested by: JJM
Date: 9.3 – 10.3, 30.3.2011
Humidity: 41 - 45%
Temperature: 20.8 - 21.5°C
Barometric pressure 1001.0 – 1008.5 mbar
Measurement uncertainty ± 4.51 dB Level of confidence 95 % (k = 2)

FCC Rule: 15.109

Radiated Emission FCC Part 15 Class B 30-1000MHz 3m



— FCC Part 15 Class B Electric Field Strength 3 m QP.LimitLine
 — Preview Result 1V-PK+
 — Preview Result 1H-PK+

Figure 11. Receiver radiated emissions measured with Peak-detector.

Final results measured with QP-detector.

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
30.080000	20.7	120.000	231.0	H	335.0	19.3	40.0	Complies
131.540000	9.1	120.000	175.0	H	60.0	34.4	43.5	Complies
748.240000	22.0	120.000	166.0	H	61.0	24.0	46.0	Complies
942.320000	24.5	120.000	331.0	H	335.0	21.5	46.0	Complies

QuasiPeak value includes transducer factors (antenna, amplifier, filters) and cable attenuations.

Radiated Emission FCC Part 15 Class B 1-18GHz 3m

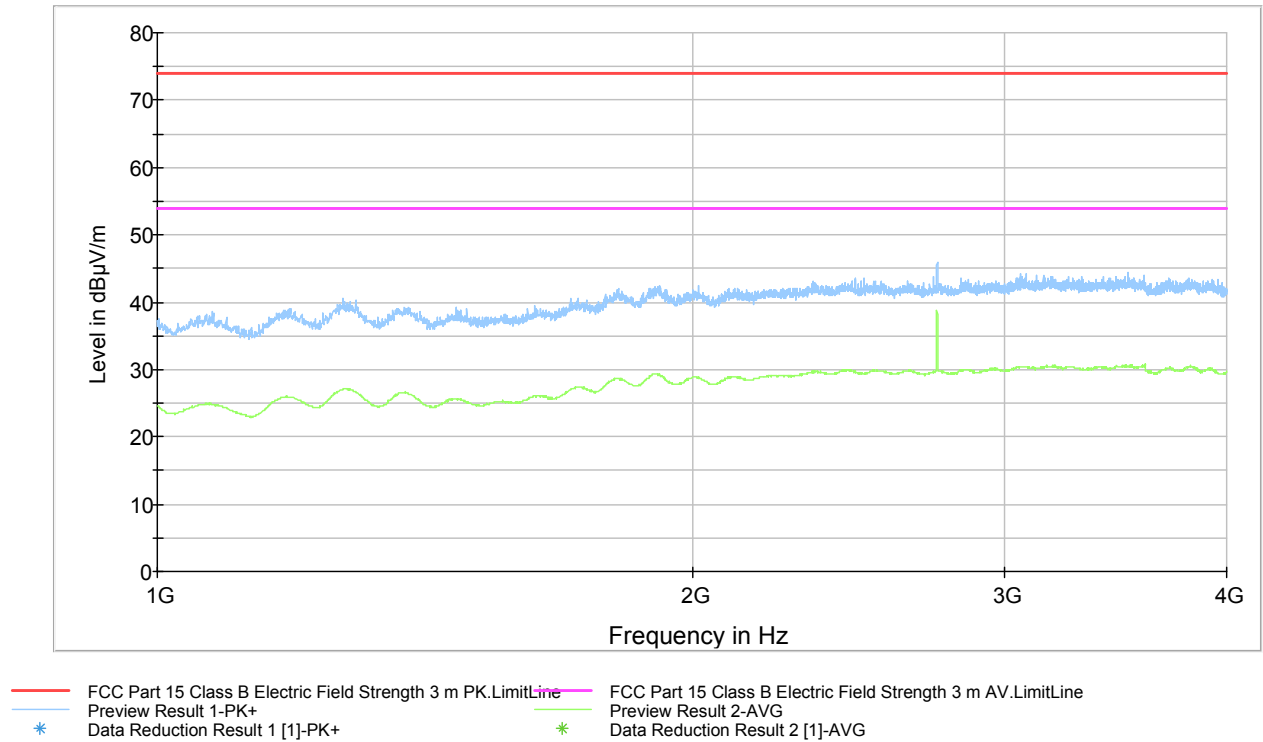


Figure 12. Receiver radiated emissions measured with Peak and Average detector.

Final Peak results.

Frequency (MHz)	MaxPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
2751.200000	46.9	1000.000	222.0	H	232.0	31.0	74.0	Complies

Peak value includes transducer factors (antenna, amplifier, filters) and cable attenuations.

Final Average results.

Frequency (MHz)	Average (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
2751.200000	29.4	1000.000	222.0	H	232.0	24.6	54.0	Complies

Receiver Radiated Emissions

Radiated Emission FCC Part 15 Class B 1-18GHz 3m

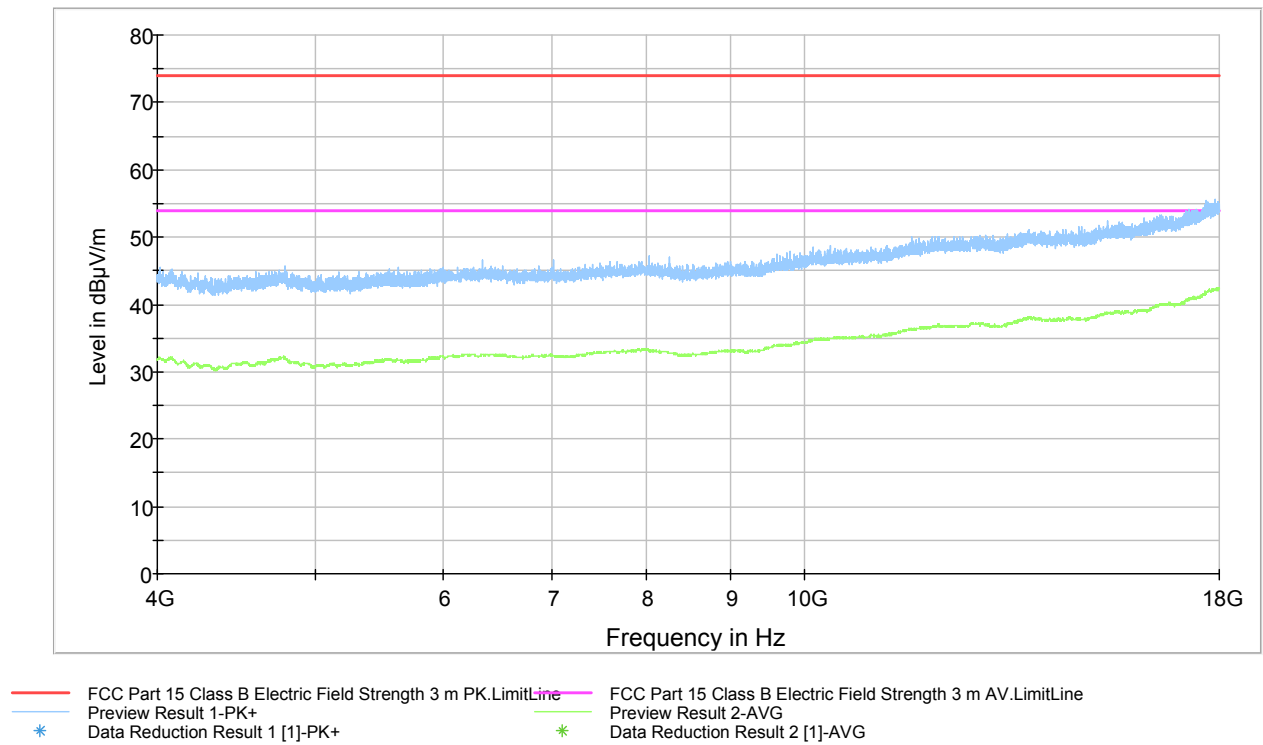


Figure 12. Receiver radiated emissions measured with peak and average detector.

Final Peak results

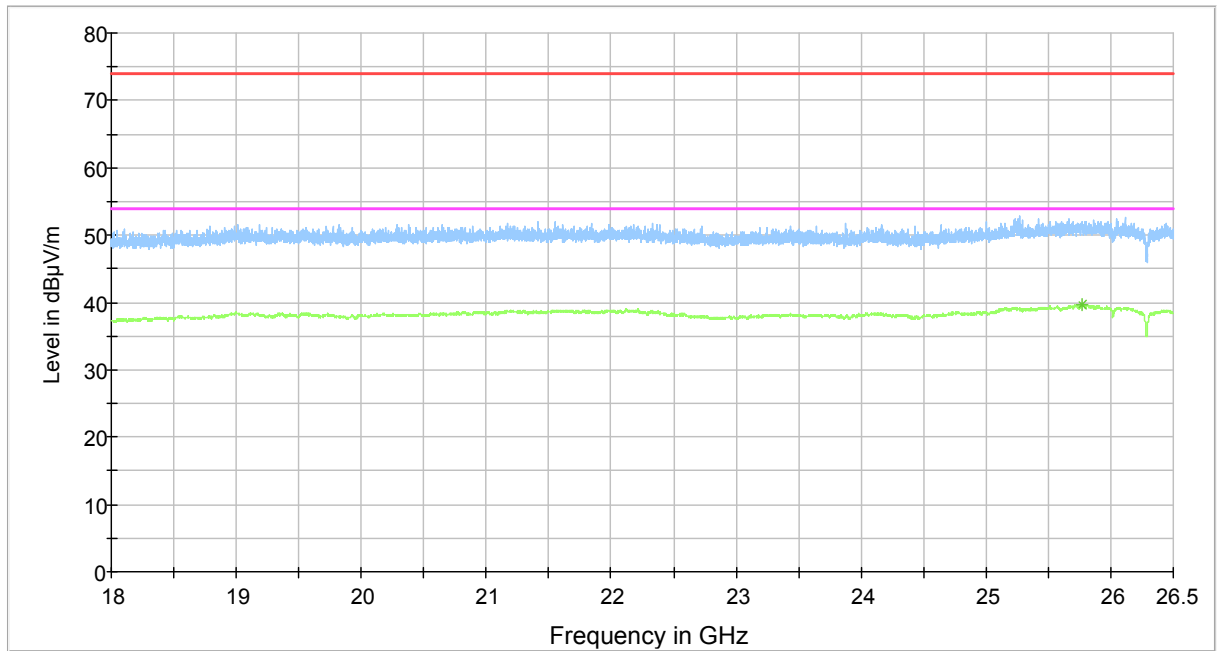
Frequency (MHz)	MaxPeak (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
15373.400000	50.8	1000.000	173.0	V	3.0	23.2	74.0	Complies
17870.400000	53.8	1000.000	290.0	H	93.0	20.2	74.0	Complies

Peak value includes transducer factors (antenna, amplifier, filters) and cable attenuations.

Final Average results

Frequency (MHz)	Average (dBµV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBµV/m)	Comment
15373.400000	36.7	1000.000	173.0	V	3.0	17.3	54.0	Complies
17870.400000	40.1	1000.000	290.0	H	93.0	13.9	54.0	Complies

Radiated Emission FCC Part 15 Class B 18-26.5GHz at 3m



— FCC Part 15 Class B Electric Field Strength 3 m PK.LimitLine
 — FCC Part 15 Class B Electric Field Strength 3 m AV.LimitLine
— Preview Result 1-PK+
 — Preview Result 2-AVG
* Data Reduction Result 1 [1]-PK+
 * Data Reduction Result 2 [1]-AVG

Figure 13. Receiver radiated emissions measured with Peak and Average detector.

No final measurements were made since the peak emission level is below the average limit.

20 dB Bandwidth

Standard: ANSI C63.10 (2009)
Tested by: JJM
Date: 21.3.2011
Humidity: 43 %
Temperature: 19.9 °C
Barometric pressure 1003.0 mbar

FCC Rule: 15.215(c)

Channel bottom

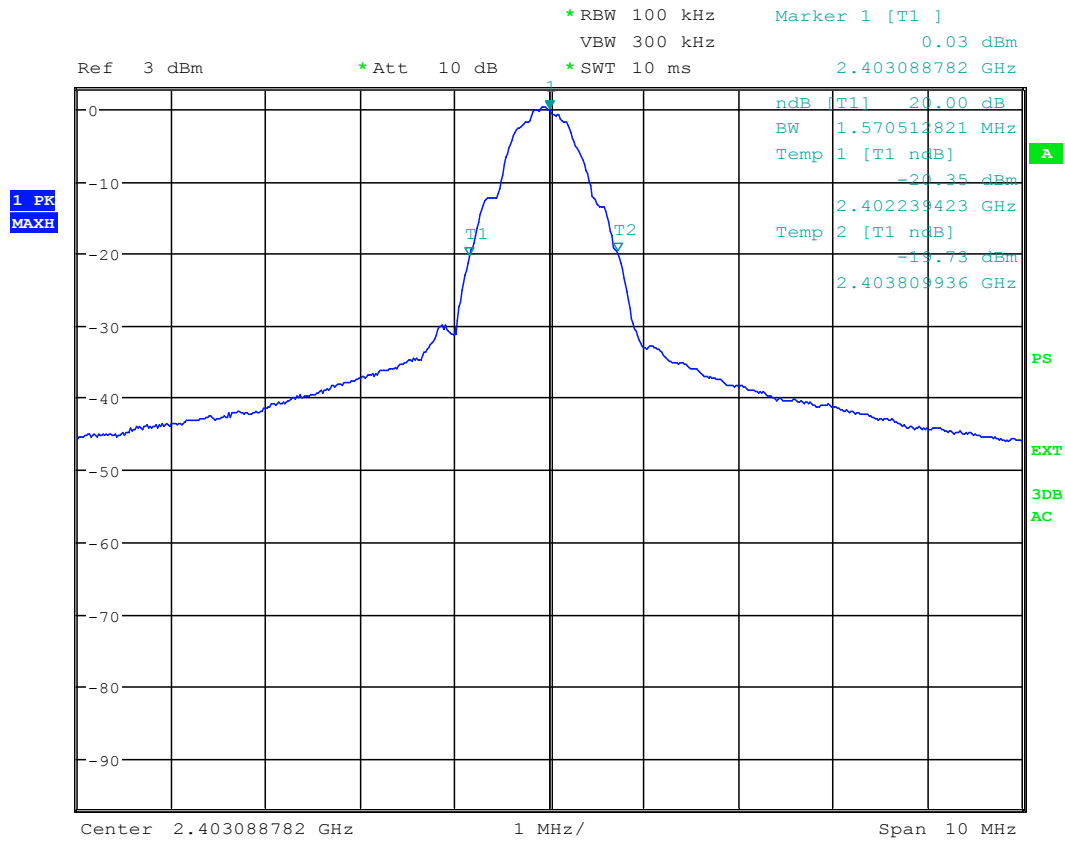
EUT frequency [GHz]	Limit [kHz]	20 dB BW [MHz]	Result
2.403088782	-	1,570512821	PASS

Channel middle

EUT frequency [GHz]	Limit [kHz]	20 dB BW [MHz]	Result
2.441032051	-	1.538451538	PASS

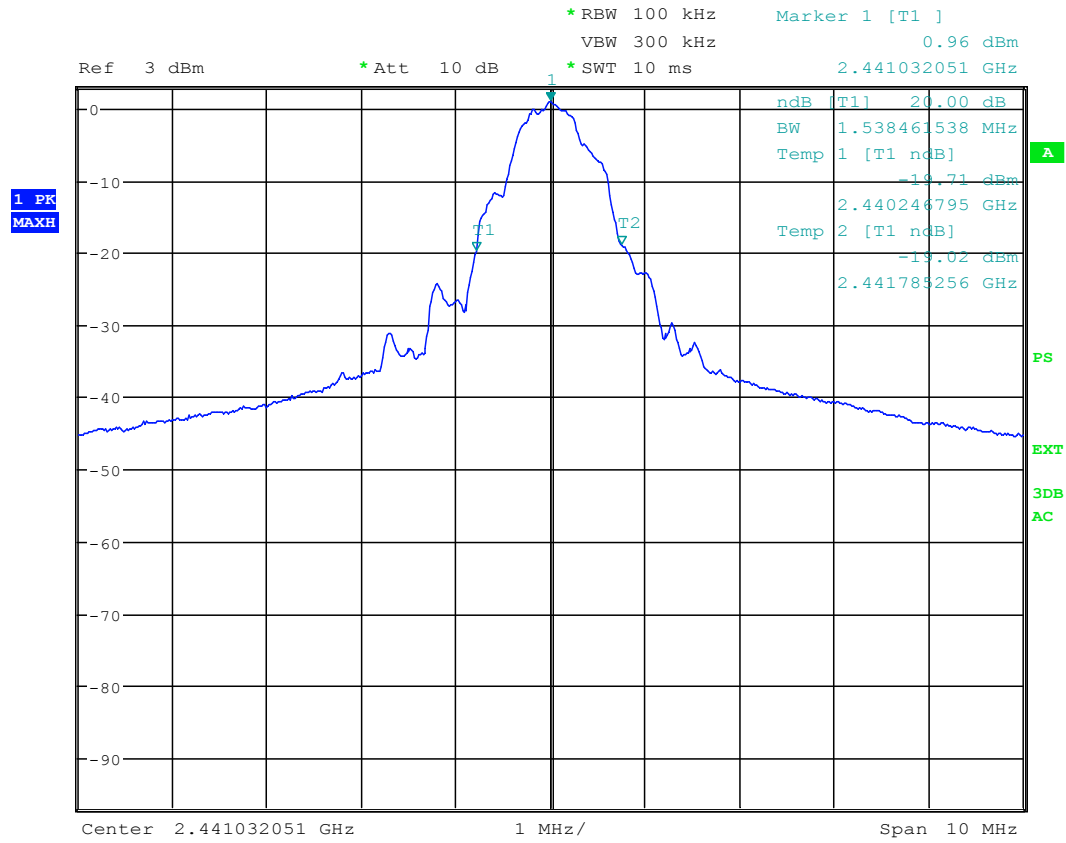
Channel high

EUT frequency [GHz]	Limit [kHz]	20 dB BW [MHz]	Result
2.482025641	-	1.891025641	PASS



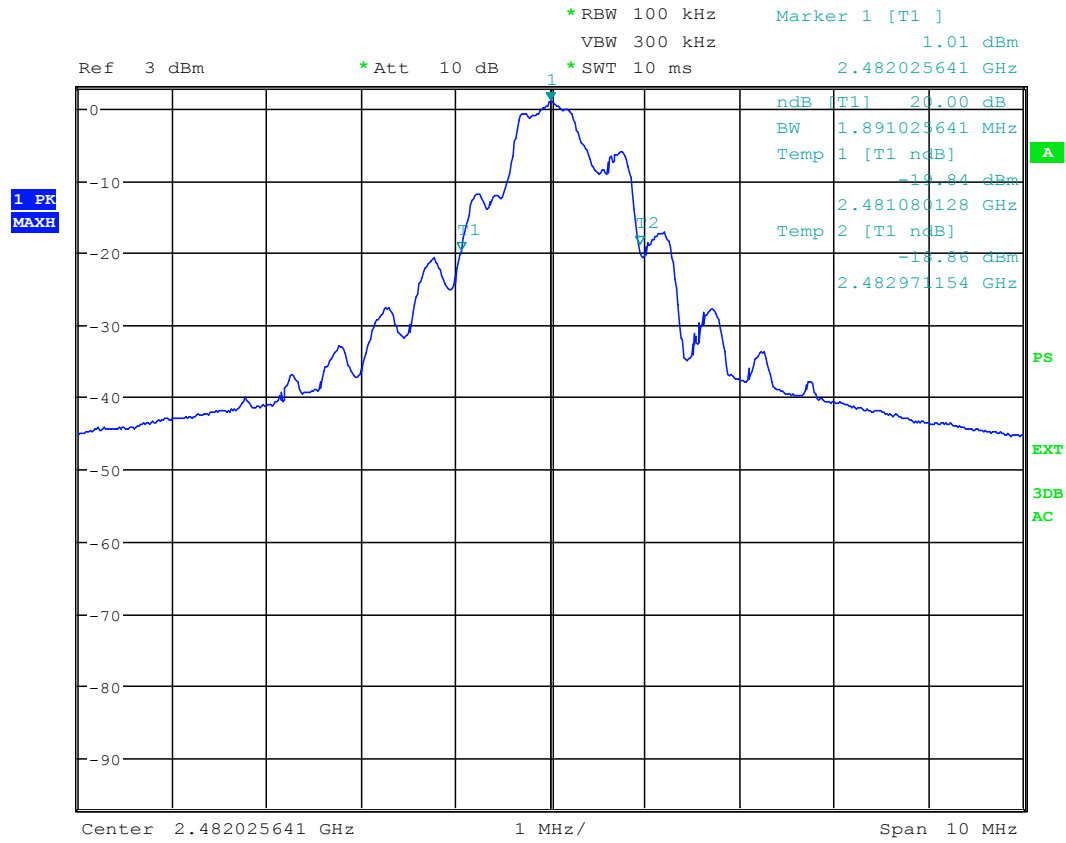
Date: 21.MAR.2011 14:53:09

Figure 14. 20dB bandwidth. Channel bottom.



Date: 21.MAR.2011 14:57:19

Figure 15. 20dB bandwidth. Channel middle.



Date: 21.MAR.2011 15:04:11

Figure 16. 20dB bandwidth. Channel top.

99% Occupied Bandwidth

Standard: ANSI C63.10 (2009)
Tested by: JJM
Date: 21.3.2011
Humidity: 43 %
Temperature: 19.7 °C
Barometric pressure 1003.0 mbar

RSS-GEN 4.7

Channel bottom

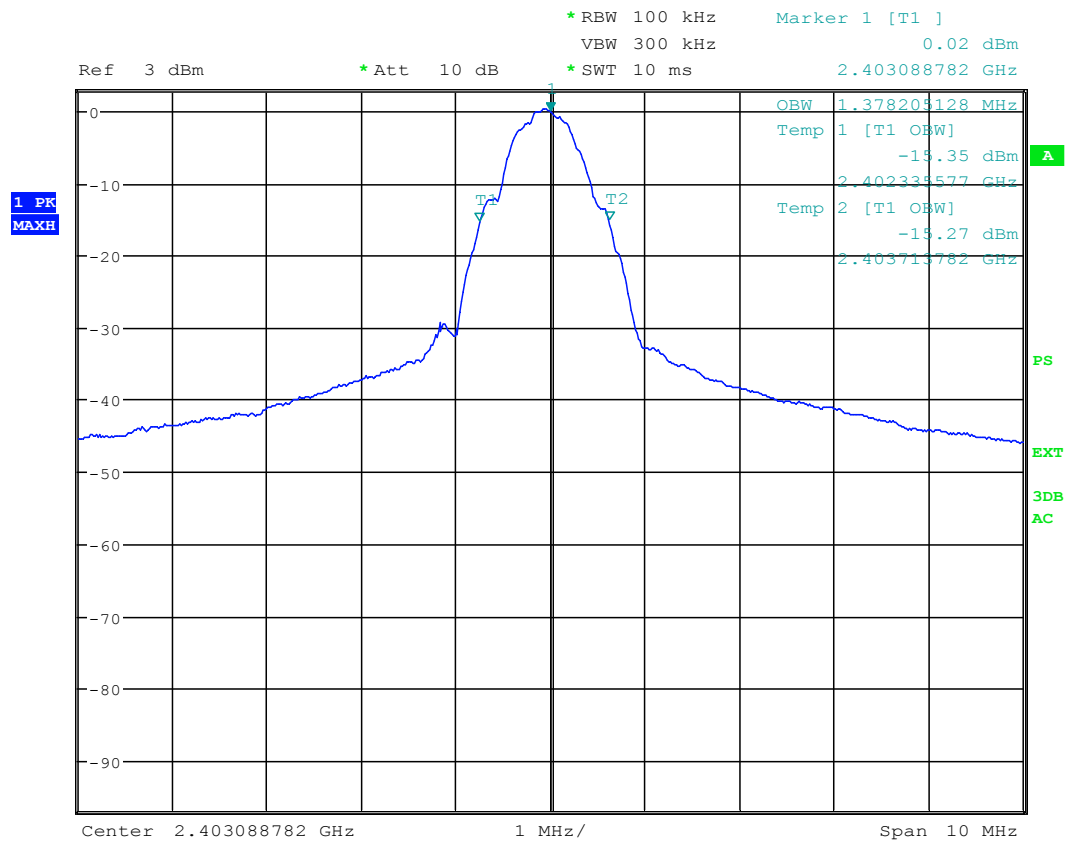
EUT frequency [MHz]	Limit [kHz]	99% BW [MHz]	Result
2.403088782	-	1.378205128	PASS

Channel middle

EUT frequency [MHz]	Limit [kHz]	99% BW [MHz]	Result
2.441032051	-	1.442307692	PASS

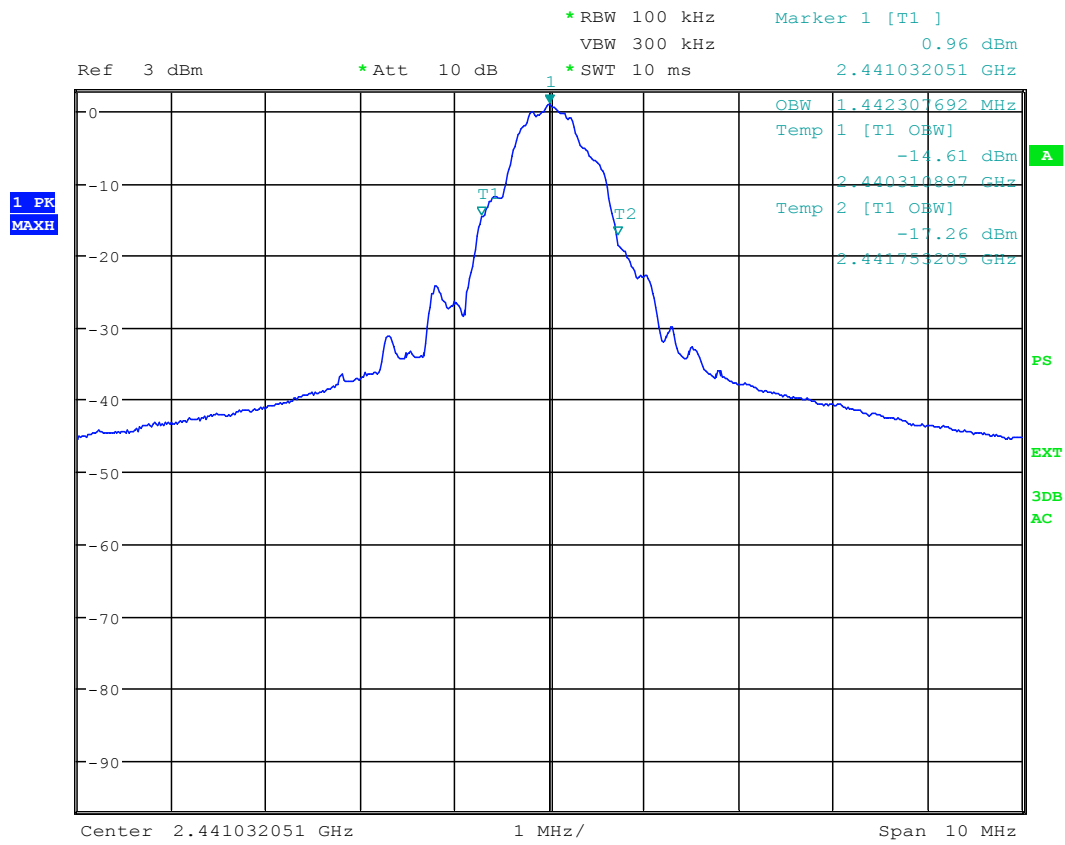
Channel top

EUT frequency [MHz]	Limit [kHz]	99% BW [MHz]	Result
2.482025641	-	2.051282051	PASS



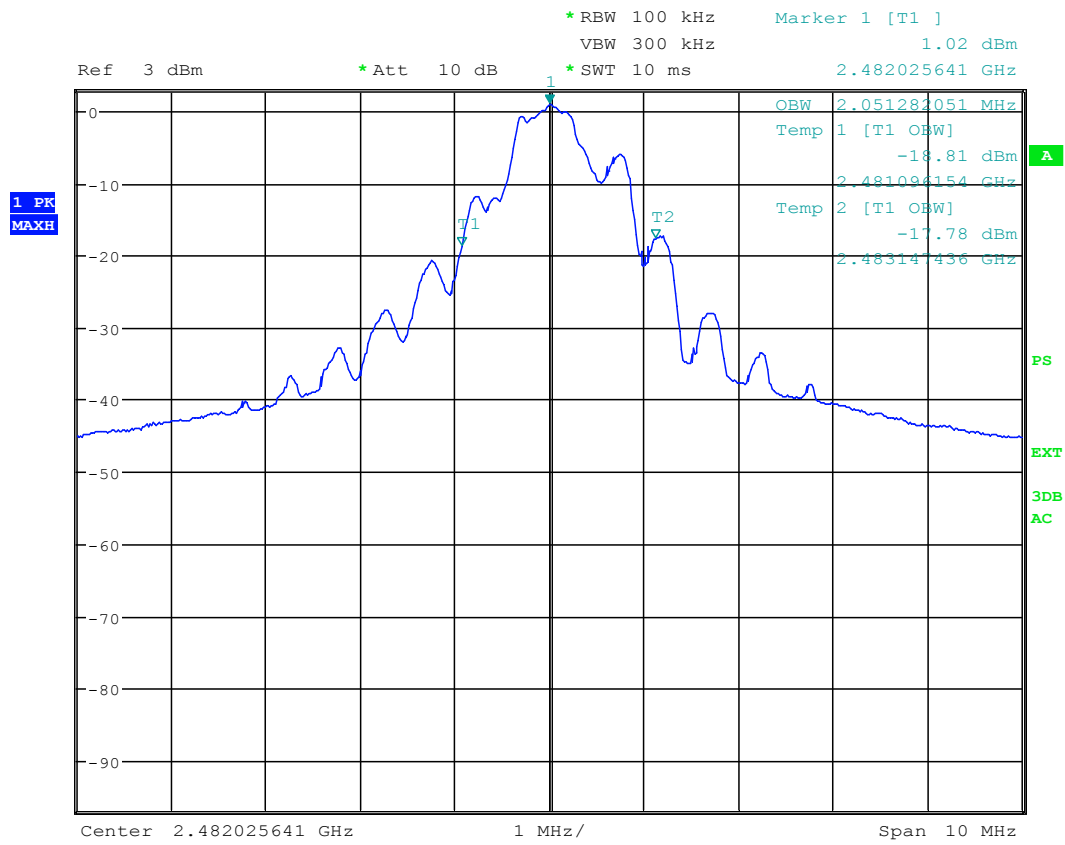
Date: 21.MAR.2011 14:51:12

Figure 17. 99% bandwidth. Channel bottom.



Date: 21.MAR.2011 14:58:54

Figure 18. 99% bandwidth. Channel middle.



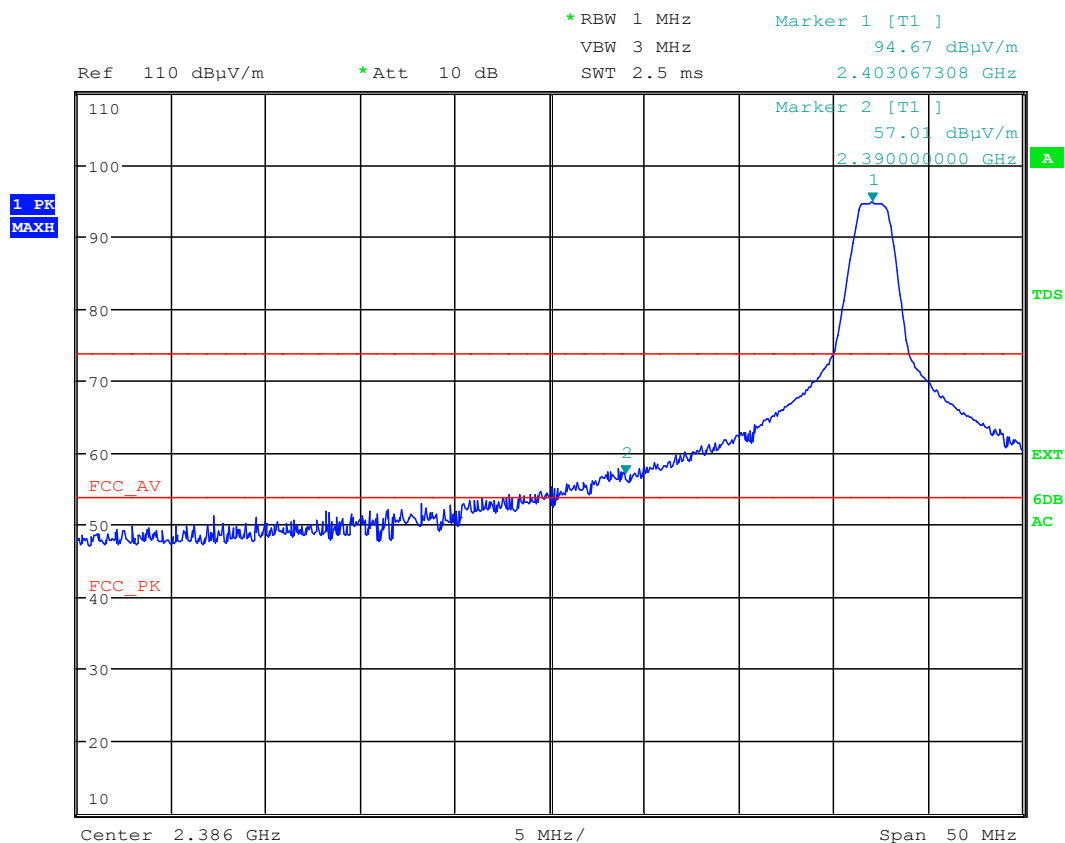
Date: 21.MAR.2011 15:10:48

Figure 19. 99% bandwidth. Channel top.

Band Edge Radiated Emissions

Standard: ANSI C63.10 (2009)
Tested by: NTO
Date: 15.3.2011
Humidity: 42 %
Temperature: 20.3 °C
Barometric pressure: 1001.0 mbar

FCC Rule: 15.249(d)



Date: 15.MAR.2011 13:04:04

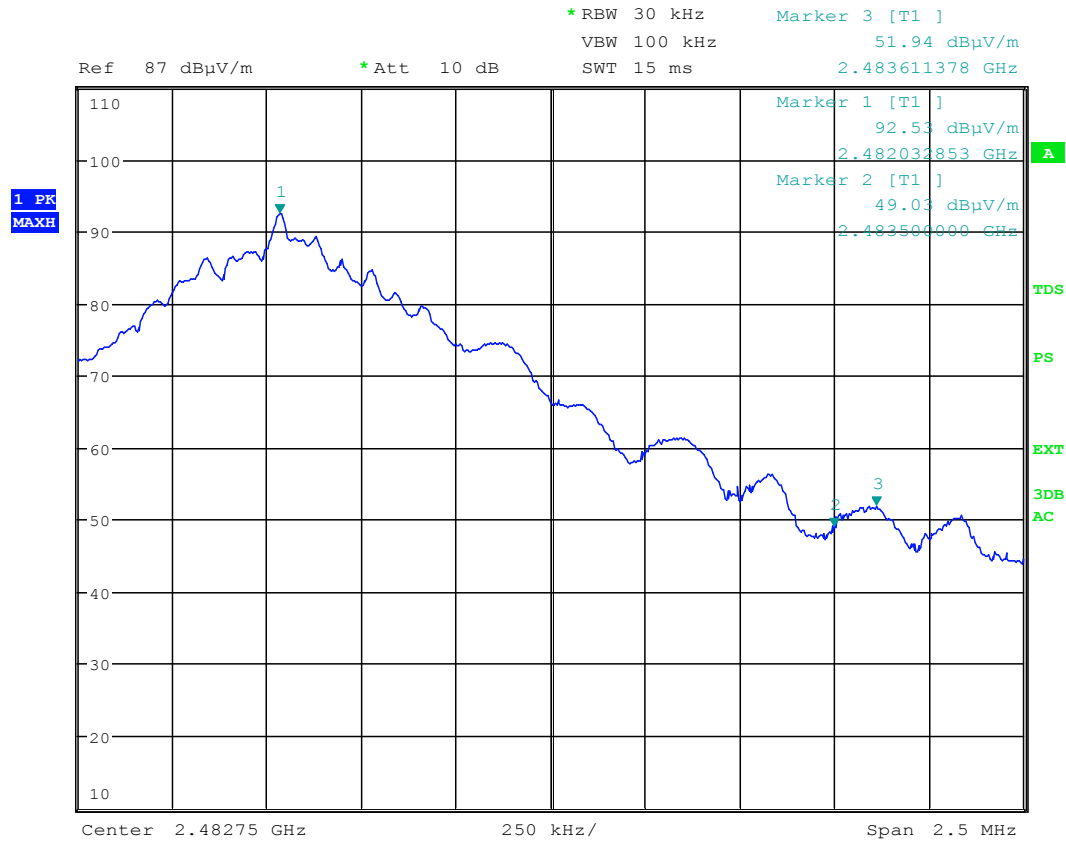
Peak level

Frequency (MHz)	MaxPeak (dBµV/m)	Bandwidth (kHz)	Pol.	Margin (dB)	Limit (dBµV/m)	Comment
2390.000000	57.0	1000.000	H	17.0	74.0	Complies

Average level

Frequency (MHz)	Average (dBµV/m)	Bandwidth (kHz)	Pol.	Margin (dB)	Limit (dBµV/m)	Comment
2390.000000	22.3	1000.000	H	31.7	54.0	Complies

Band Edge Radiated Emissions



Date: 18.MAR.2011 08:31:30

Peak level

Frequency (MHz)	MaxPeak (dB μ V/m)	Bandwidth (kHz)	Pol.	Margin (dB)	Limit (dB μ V/m)	Comment
2483.500000	49.0	1000.000	H	25.0	74.0	Complies

Average level

Frequency (MHz)	Average (dB μ V/m)	Bandwidth (kHz)	Pol.	Margin (dB)	Limit (dB μ V/m)	Comment
2483.500000	14.3	1000.000	H	39.7	54.0	Complies

List of Test Equipment

Manufacturer	Type	Serial no	Inv. no
ROHDE & SCHWARZ			
EMI Test receiver	ESU 26	100185	8453
Test software	EMC32	Ver. 8.30.0	-
CHASE			
Antenna (30 MHz - 1 GHz)	6141A	4102	7895
EMCO			
Antenna (1 - 18 GHz)	3117	29617	7293
HEWLETT- PACKARD			
Microwave amplifier	83017A	-	5226
DEISEL			
Antenna mast	MA 240 T	240/394/96	5017
Tilt option	KE 220	220/307/96	-
Controller	HD 100	100/413/96	5018
Turntable	DS 420	420/420/96	5015
WAINWRIGHT			
High Pass Filter	WHKX	10	8267