

**montena**

montena emc sa

Test laboratory accredited according to ISO 17025 by the Swiss Accreditation Service SAS
 Laboratoire d'essai accrédité selon ISO 17025 par le Service d'accréditation suisse SAS
 Prüflabor akkreditiert nach ISO 17025 durch die Schweizerische Akkreditierungsstelle SAS

Registration number
 Numéro d'accréditation
 Akkreditierungsnummer

STS 024

Schweizerischer Prüfstellendienst
 Service suisse d'essai
 Swiss testing service



Report: Rapport: Bericht:	Radiocom		Report no: Rapport no: Bericht Nr:	15'671
Product name: Nom du produit: Produktname	DynaMic (2.4GHz part)		Mandate no: Mandat no: Auftrag Nr:	20098693
Serial no: No de série: Seriennummer:	Proto 13	Model number: Numéro de modèle: Modellnummer:	---	
Customer: Client: Kunde:	Phonak Communications SA Länggasse 17 CH-3280 Murten	Date of test: Date de l'essai: Prüfdatum:	March 5 – April 20, 2009	

Standards / Normes / Normen	Result Résultat Ergebnis
CFR 47, Part 15, Subpart C, Intentional radiator, Paragraph 15.207/249	Pass

Test performed by
 Essai effectué par :
 Prüfer

Mr Jacques Ding

Test report prepared by
 Rapport d'essai préparé par :
 Berichterstatter

Mr Jacques Ding

Test report controlled and approved by
 Rapport d'essai contrôlé et approuvé par :
 Prüfbericht kontrolliert und genehmigt durch

Mr Erich Staub

Rossens, April 24, 2009

(Issue Date / Date d'édition / Ausstelldatum)

V2007Jun26

Main language / Langue principale / Hauptsprache : english / français / deutsch

The present document results from tests on a specimen and does not prejudice to the conformity of all the manufactured products. - Le présent document résulte d'essais sur un spécimen. Il ne préjuge pas de la conformité de l'ensemble des produits fabriqués à l'objet essayé. - Dieser Bericht beinhaltet die Prüfergebnisse eines Mustergerätes. Es kann daraus nicht auf die Übereinstimmung der Seriegeräte mit dem Mustergerät geschlossen werden.

q:\mandats\2009\20098693_phonak_dynamic\rap_phonak communications sa_15671_dynamic_fcc 2g4.doc

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1. Summary of test results / Résumé des résultats d'essais / Zusammenfassung der Prüfergebnisse

✓ Pass / Réussi / Bestanden

✗ Fail / Echoué / Nicht bestanden

Ø Not applicable to this product / Pas applicable à ce produit / Nicht anwendbar für dieses Produkt

— Not tested / Pas testé / Nicht geprüft

■ No requirements / Pas d'exigence / Keine Anforderung

§	Test Type / Type d'essai / Art der Prüfung	Result / Résultat / Ergebnis
6	Emission / Emission / Störaussendung	
-	Conducted emission Émission par conduction Geleitete Emission CFR 47 § 15.107/207	Ø ¹
6.1	Radiated emission – Carrier Émission par rayonnement – Porteuse Gestahlte Emission – Träger CFR 47 § 15.249	✓
6.2	Radiated emission – EM-field Émission par rayonnement – Champ EM Gestahlte Emission – EM-Feld CFR 47 § 15.249	✓

1. Powered with / Alimenté avec / Gespeist mit : Internal battery

2. Applied standards / Normes appliquées / Verwendete Normen

47 CFR Part 15 Subpart C	Code of Federal Regulations - Telecommunication, FCC Part 15, Subpart C: "Intentional Radiators"
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3. Client / Client / Kunde

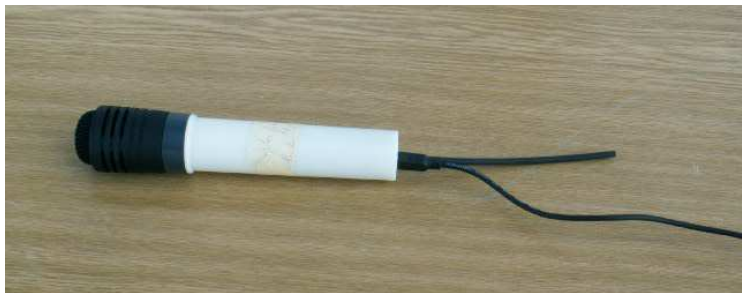
Client name and address Nom et adresse du client Name und Adresse des Kunden	Phonak Communications SA Länggasse 17 CH-3280 Murten
Contact Person / Responsable / Kontaktperson	Mrs Neviana Nikoloski
Telephone / Téléphone / Telefon	+41 26 672 96 72
Fax / Télécopieur / Telefax	+41 26 672 96 77
E-mail / Courrier électronique / E-mail	Neviana.nikolowski@phonak.com
Mandate no / No. de mandat / Auftragsnr.	20098693

4. Equipment under test / Equipement à l'essai / Prüfling

4.1 Identification / Identification / Identifikation

Manufacturer name and address Nom et adresse du fabricant Name und Adresse des Herstellers	Phonak Communications SA Länggasse 17 CH-3280 Murten
Production country / Pays de fabrication / Ursprungsland	Switzerland
Brand name / nom de marque / Verkaufsmarke	Phonak
Product name / Nom du produit / Produktname	DynaMic (2.4GHz part)
Product description / Description du produit / Produktbeschreibung	DynaMic is a wireless microphone with FM transmitter for applications in schools. The priority management (teacher / students) with Inspiro is controlled by means of a link at 2.4 GHz.
Model number / Numéro de modèle / Modellnummer	- - -
Serial no / No. de série / Seriennummer	Proto 13
Software version / Version du logiciel / Softwareversion	Verification.bin: 16-3-2009 15:26
Highest frequency / Fréquence la plus élevée / Höchste Frequenz	Carrier at 2.4 GHz
Supply / Alimentation / Speisung	U = 3.7 VDC internal Lithium-Ion battery
Technical documentation Documentation technique Technische Dokumentation	None. The equipment is completely identified by its serial no. according to ISO 9001.

4.2 Pictures of the EUT / Photos de l'EST / Fotos des Prüflings

	DynaMic in case (labelled N) proto 13
	DynaMic for radiated measurements with USB cable (4 wires, 5 V DC and data)

4.3 Ports / Accès / Anschlüsse

Port / Accès / Anschluss	Cable / Câble / Kabel			Remark / Remarque / Bemerkung
	Max. length / Longueur max. / Max. Länge	Type / Type / Typ	Screen / Blindage / Schirm	
USB	1 m	---	Yes	---

4.4 Modifications / Modifications / Angebrachte Änderungen

None

5. Test conditions / Conditions d'essai / Testbedingungen**5.1 Climatic conditions, location and date / conditions climatiques, lieu et date / klimatische Bedingungen, Ort und Datum**

Location / Lieu / Ort:	Date / Date / Datum:	Temp. / Temp. / Temp.:	Pressure / Pression / Druck:	Rel. humidity / Humidité rel. / Rel. Luftfeuchtigkeit:
montena emc sa CH-1728 Rossens	March 6- April 22, 2009	20 – 24 °C	996 – 1036 hPa	26 – 36 %

5.2 Test facility and methodology / Lieu d'essai et méthodologie / Prüfort und Methodik

The alternate test site (ferrite chamber) is accepted by FCC (Reg. No. 0009508433). Conducted and radiated measurements are performed according to the ANSI C63.4 (2003) procedure.
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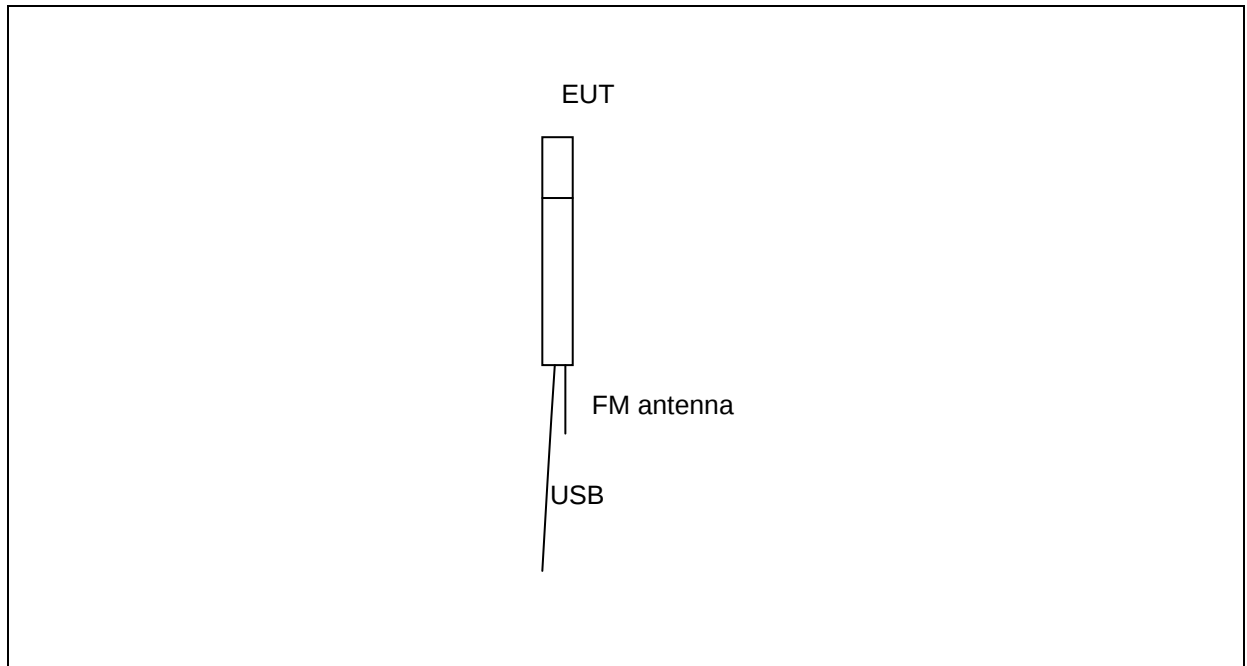
5.3 Present persons / Personnes présentes / Anwesende Personen**Test Engineer(s) / Ingénieur(s) d'essai / Prüfsingenieur(e) :**

Mr Jacques Ding

Other(s) / Autre(s) / Andere :

Name / Nom / Name	Company / Société / Firma
Mr M. Brügger	Nanotronic GmbH

5.4 Test configuration / Configuration d'essai / Prüfkfiguration



5.5 Auxiliary equipment / Matériel auxiliaire / Zusatzgeräte

The following pieces of equipment are used for the monitoring of the EUT or are necessary for the EUT but they are not tested with the EUT / Les équipements suivants servent à la surveillance de l'EST ou sont indispensables au fonctionnement de celui-ci mais ne font pas partie de l'essai / Folgende Geräte werden für die Überwachung des Prüflings gebraucht oder sind notwendig für die korrekte Funktion. Sie gehören jedoch nicht zum Prüfling.

Product / Produit / Produkt	Brand / Marque / Marke	Model No.	ID	Remark / Remarque / Bemerkung
PC	HP	Omnibook xe 4500	02-25	To program the microphones TX-helper: exe 16-3-2009 10:27 Application: 17-3-2009 17:38 ClientHomologation.exe: 16-3-2009 15:31

6. Tests

6.1 Carrier - Radiated emission

Test site: ☐ anechoic chamber (ferrites) ☐ open test site
☒ anechoic chamber (foam) ☐

Meas. distance: ☐ 3 m ☐ 10 m ☐ 30 m ☒ 1 m

Meas. uncertainty: ± 4.7 dB

Position of EUT: 1.5 m (height above floor of equipment under test)

Measuring method: The carrier radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is placed at the same height as the EUT successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbances appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding a limit are remeasured manually using a receiver.

Test set-up:



Remarks: Limit values expressed in dB μ V/m and transformed to a measuring distance of 1 m (factor used = 20 dB/decade) if necessary
 e.g.: for $f = 2.43$ GHz the limit is 50 mV/m at 3 m;

$$20 \log \left(\frac{50 \frac{\text{mV}}{\text{m}}}{1 \frac{\mu\text{V}}{\text{m}}} \right) + 20 \log \left(\frac{3\text{m}}{1\text{m}} \right) = 103.5 \frac{\text{dB}\mu\text{V}}{\text{m}} \text{ at } 1\text{m}$$

Test equipment:

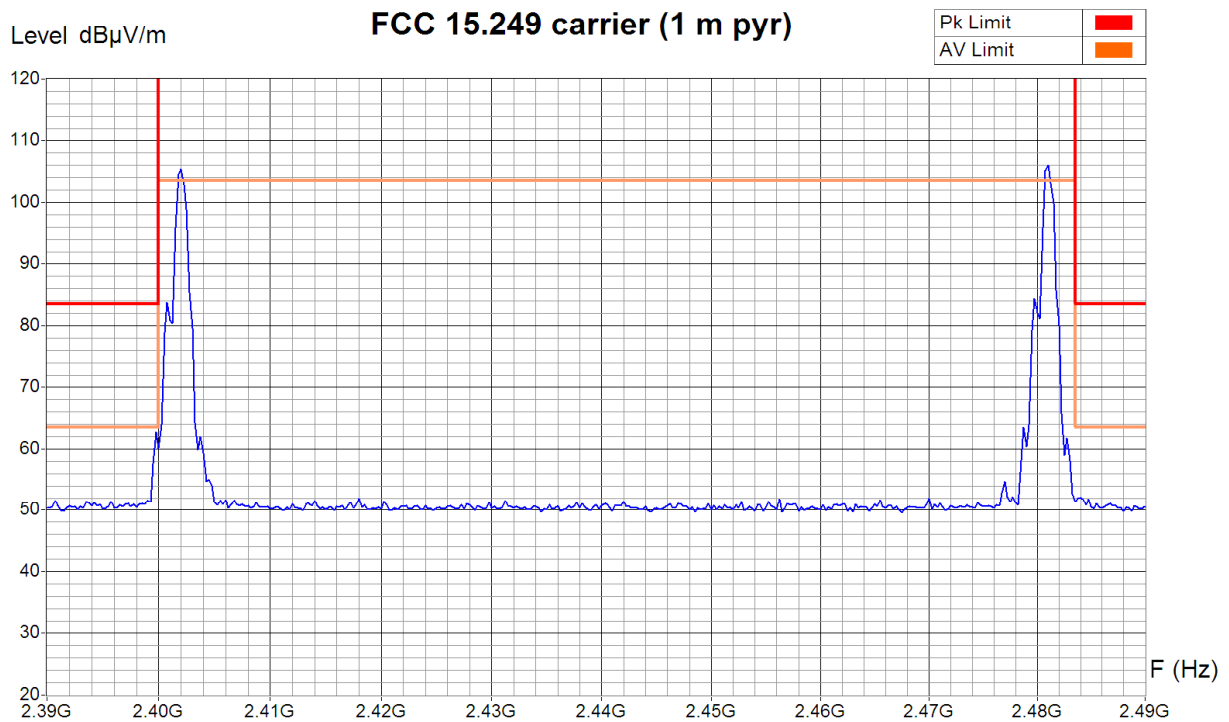
Spectrum analyser	☐ 88-14	☐ 90-26	☐ 94-24	☒ 02-06	☐ 03-45	☐ 03-57
Receiver	☐ 85-04	☐ 90-43	☒ 04-29			
Preamplifier	☐ 90-01	☐ 95-86	☐ 05-56	☐ 05-59	☐ 05-62	☒ 05-87
Antenna (horn)	☐ 90-24	☐ 90-29	☐ 98-12	☐ 98-13	☒ 07-31	
Cables	☒ Succoflex 1m (67688/4)					

Result: ☒ pass ☐ fail ☐ not applicable ☐ not tested

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : cont. emission, mod, offset 2 (low) and 81 (high), Pmax
Remarks : AV value (offset 2) = 103 dBuV/ m
AV value (offset 81) = 103.5 dBuV/ m
Mic labelled N



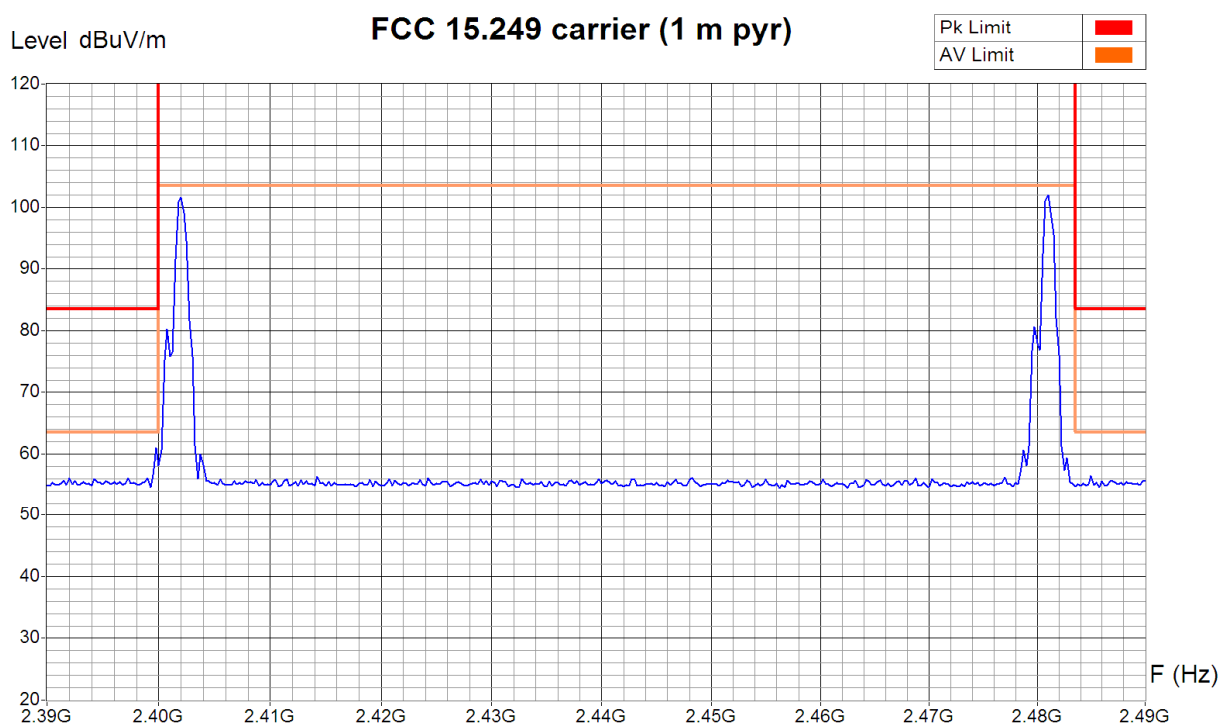
Zone	2.39 GHz - 2.49
Video Bandwidth	100 KHz
Resol Bandwidth	100 KHz

Operator: Ding
Date/Time: 23.03.2009 10:53
Filename:
h_Dyna_FCC_carrier_00.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0 - 360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : cont. emission, mod, offset 2 (low) and 81 (high), Pmax
Remarks :
Mic labelled N



Zone	2.39 GHz - 2.49
Video Bandwidth	100 KHz
Resol Bandwidth	100 KHz

Operator: Ding
Date/Time: 23.03.2009 11:30
Filename:
h_Dyna_FCC_carrier_02.png/.txt

6.2 Field strength of spurious radiation

6.2.1 Radiated emission - Electromagnetic field (30 MHz – 1 GHz)

Test site: ☒ anechoic chamber (foam) ☐ open test site
☒ anechoic chamber (ferrites) ☐

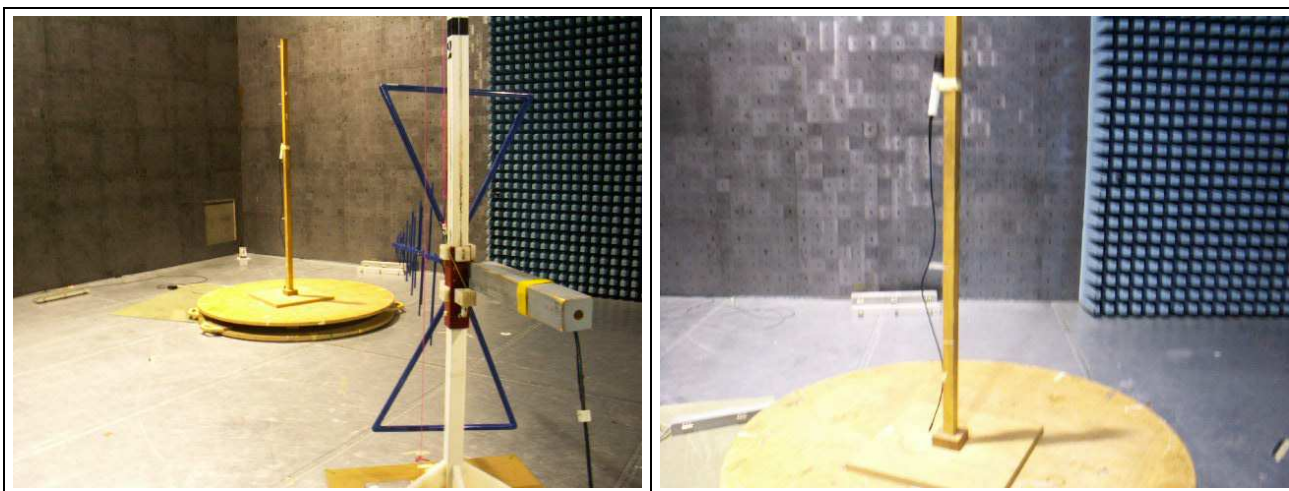
Distance: ☐ 30 m ☐ 10 m ☒ 3 m ☐

Position of EUT: 1.5 m, (bottom of mic case) (height of the equipment under test above floor)

Meas. uncertainty: ± 4.6 dB (30 - 300 MHz) / ± 3.7 dB (300 - 1000 MHz)

Test method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is moved from 1 to 4 m in height successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbances appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding a limit are remeasured manually using a receiver.

Test set-up:



Remarks: Limit values expressed in dB μ V/m and transformed to a measuring distance of 3 m (factor used = 20 dB/decade) if necessary
 e.g.: for f = 40 MHz the limit is 100 μ V/m at 3 m;

$$20 \log \left(\frac{100 \frac{\mu V}{m}}{1 \frac{\mu V}{m}} \right) = 40 \frac{dB\mu V}{m} \text{ at } 3m$$

Test equipment:

Spectrum analyser	☐ 88-14	☐ 90-26	☒ 94-24*	☐ 02-06	☒ 03-45	☐ 03-57
Receiver	☐ 85-04	☒ 90-43*	☐ 94-35			
Preamplifier	☐ 90-01	☐ 95-86	☐ 05-56	☒ 05-59	☒ 05-62*	☐ 05-87
Antenna (bilog)	☒ 94-03	☒ 05-38*	☐			
Cables	☒ 06-01	☒ 06-00*				
Filter	☐ No Notch filter and additional 10dB attenuator (Phonak) for Tx mode					

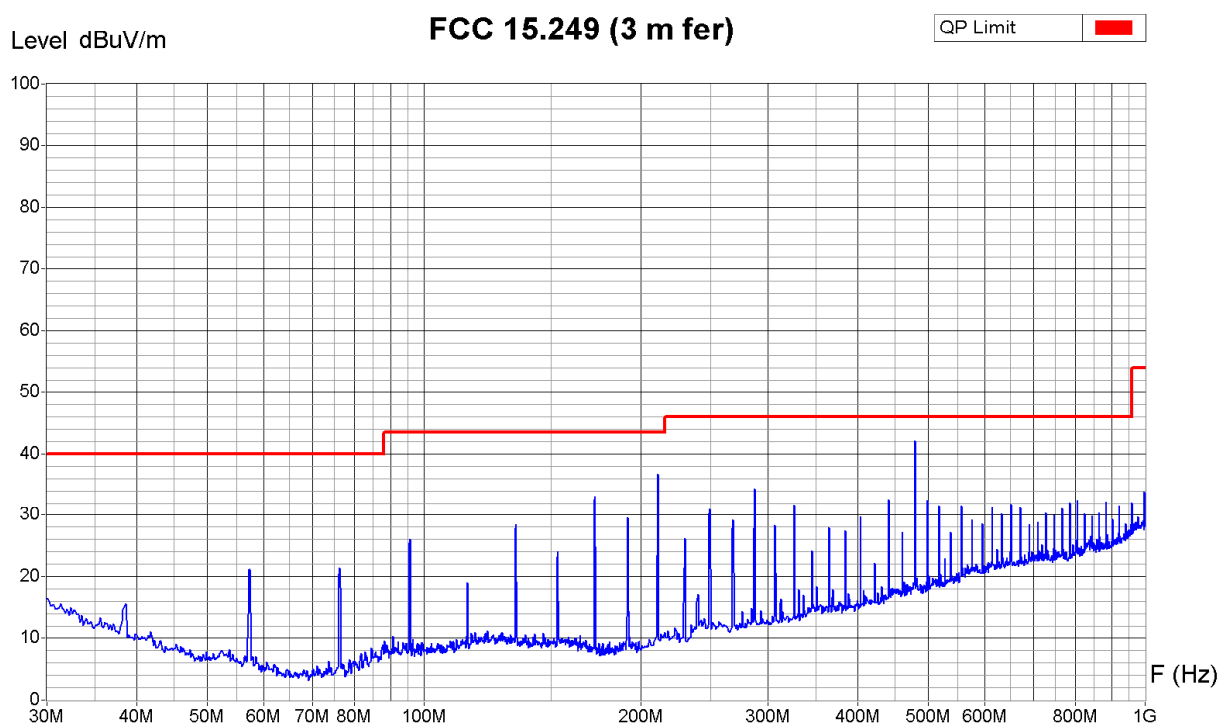
* = only for receive mode in pyramid chamber

Result:	☒ pass	☐ fail	☐ not applicable	☐ not tested
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Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1 - 4 m



Equipment Under Test : DynaMic
Set-Up : with USB cable (not terminated)
Operating Conditions : 2.402 GHz, Pmax, mod., s.file test_and_firmware_traceability
Remarks : micro labeled N



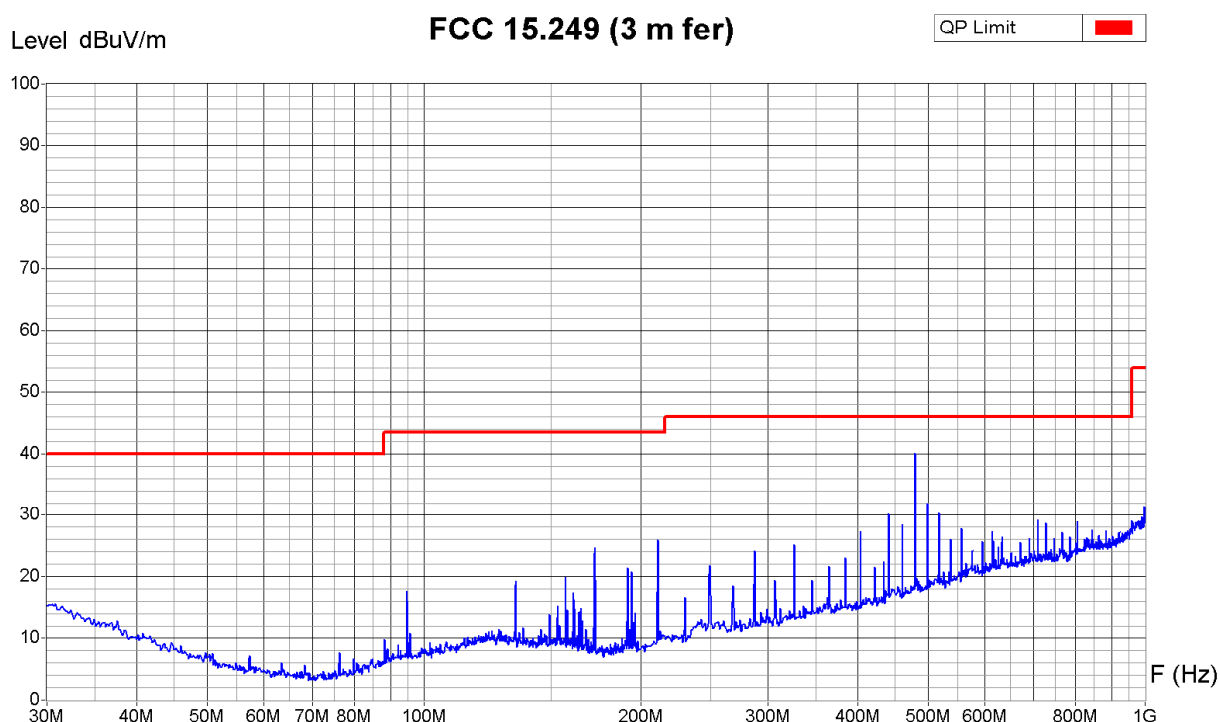
Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: Ding
Date/Time: 05.03.09 16:54
Filename:
DynaMic_partC_15_249_2.402_01
.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0 - 360°
Antenna Height : 1 - 4 m



Equipment Under Test : DynaMic
Set-Up : with USB cable (not terminated)
Operating Conditions : 2.402 GHz, Pmax, mod., s.file test_and_firmware_traceability
Remarks : micro labeled N



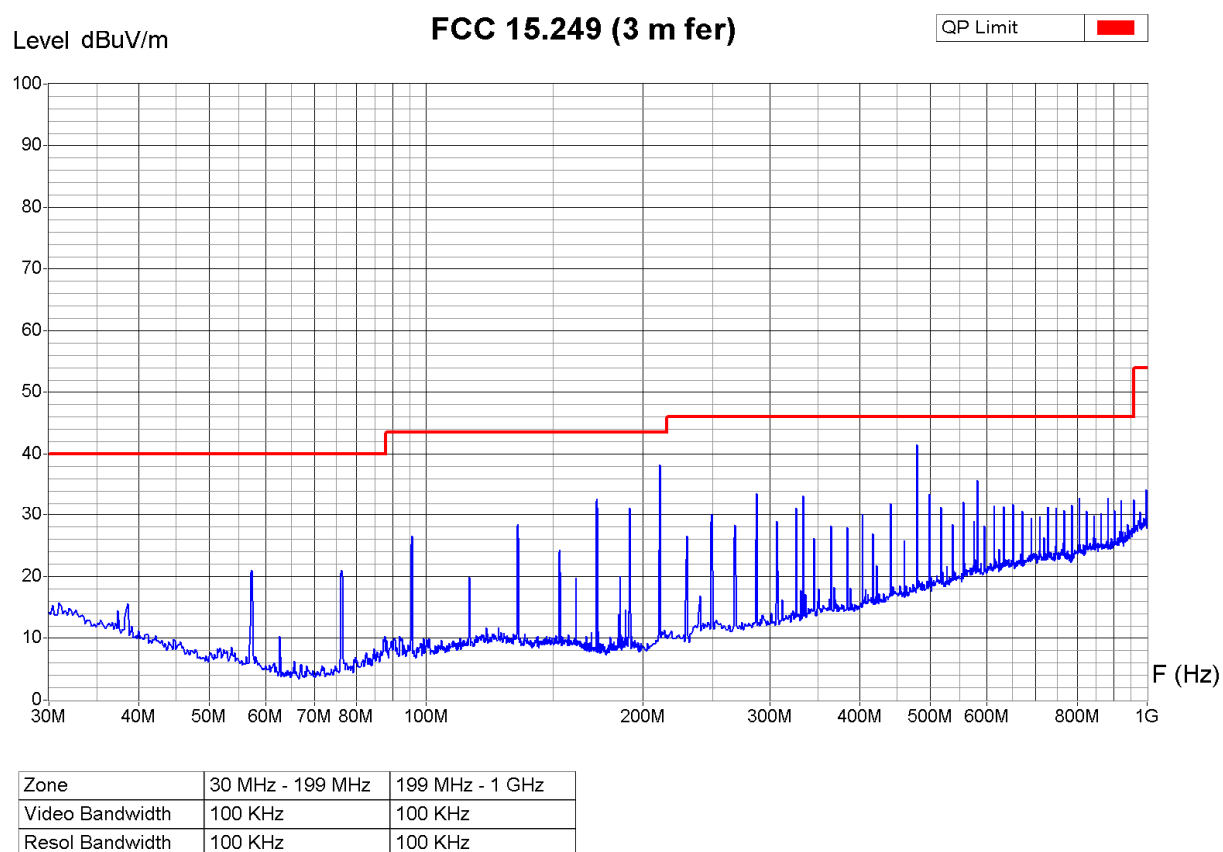
Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: Ding
Date/Time: 05.03.09 17:08
Filename:
DynaMic_partC_15_249_2.402_02
.png/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1 - 4 m



Equipment Under Test : DynaMic
Set-Up : with USB cable (not terminated)
Operating Conditions : 2.481 GHz, Pmax, mod., s.file test_and_firmware_traceability
Remarks : micro labeled N

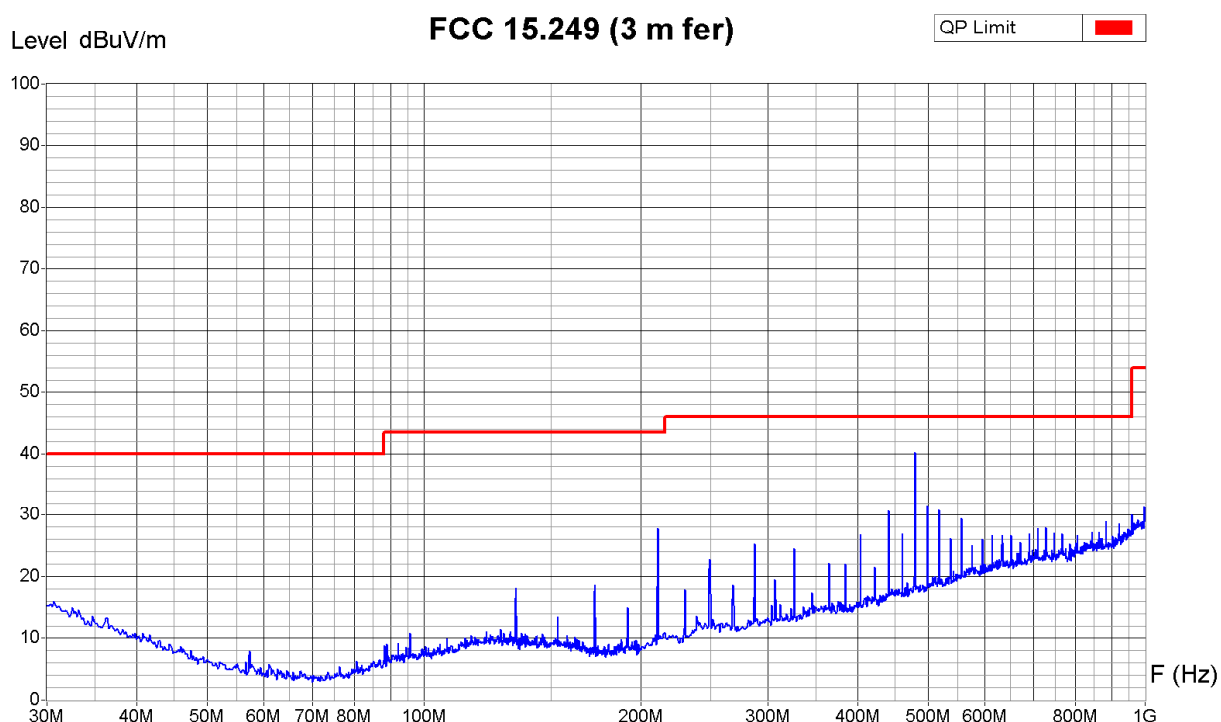


Operator: Ding
Date/Time: 05.03.09 17:32
Filename:
DynaMic_partC_15_249_2.481_03
.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0 - 360°
Antenna Height : 1 - 4 m



Equipment Under Test : DynaMic
Set-Up : with USB cable (not terminated)
Operating Conditions : 2.481 GHz, Pmax, mod., s.file test_and_firmware_traceability
Remarks : micro labeled N



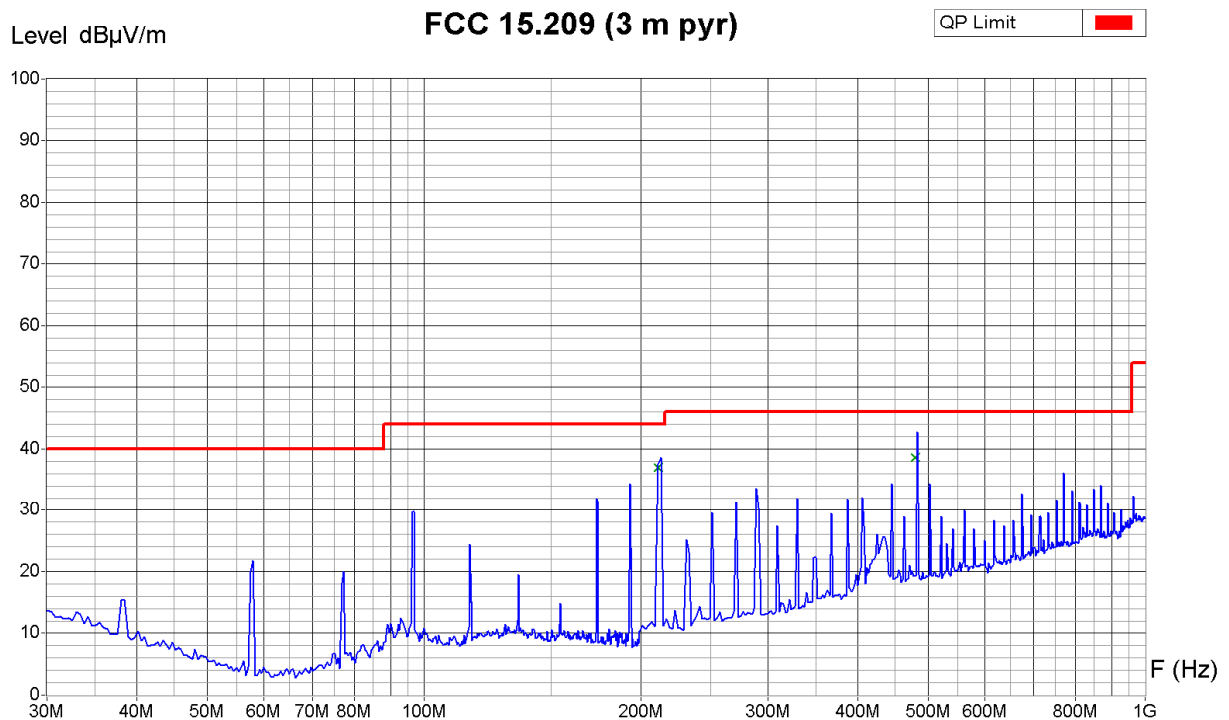
Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: Ding
Date/Time: 05.03.09 17:45
Filename:
DynaMic_partC_15_249_2.481_04
.png/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1 - 4 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : receive mode 2.4 GHz
Remarks : Mic labelled H



Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Receiver Measures

Frequency	Peak	QuasiPeak (x)	Average (+)	QP Margin
211.20 MHz	39.3 dB μ V/m	37.0 dB μ V/m	38.2 dB μ V/m	22.0 dB
480 MHz	44.5 dB μ V/m	38.6 dB μ V/m	39.1 dB μ V/m	20.4 dB

Operator: Ding
Date/Time: 19.03.09 09:47
Filename:
g_Dyna_copy_2.4G_01.png/.txt

Measurement Type : Radiated Field

Polarisation : Horizontal

Table Angle : 0 - 360°

Antenna Height : 1 - 4 m

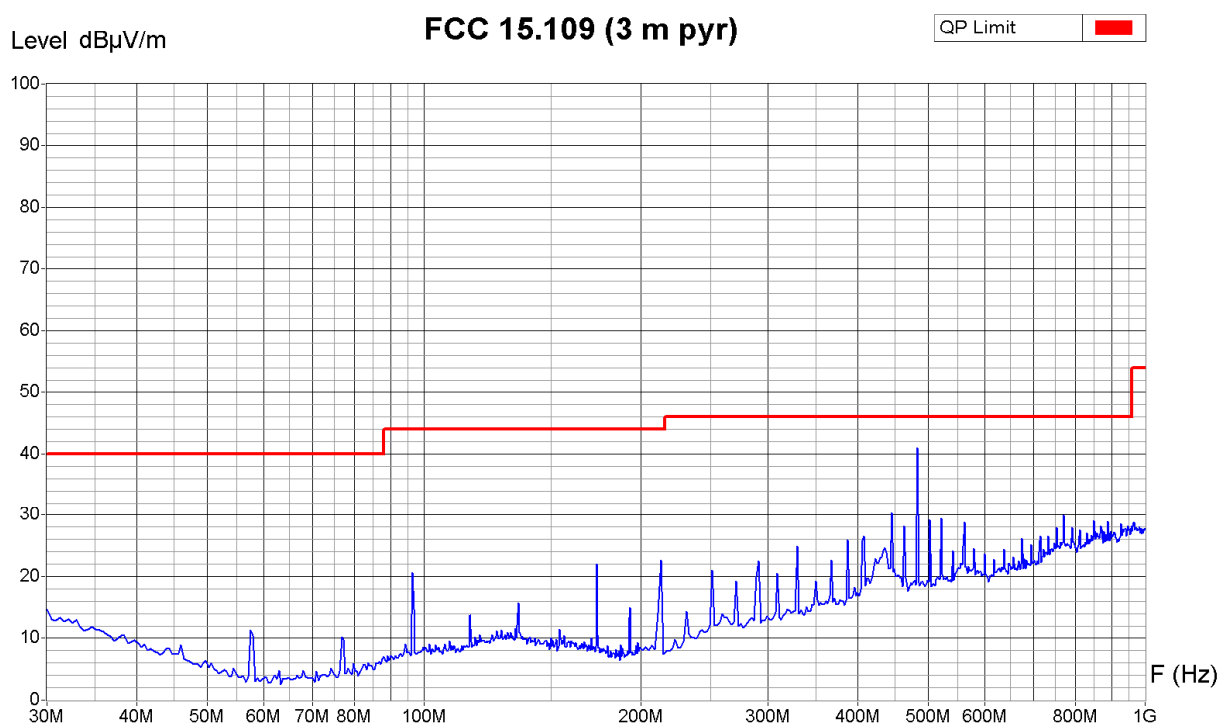


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode 2.4 GHz

Remarks : Mic labelled H



Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: Ding
 Date/Time: 19.03.09 10:20
 Filename:
 g_Dyna_copy_2.4G_02.png/.txt

Measurement Type : Radiated Field

Polarisation : Vertical

Table Angle : 0 - 360°

Antenna Height : 1 - 4 m

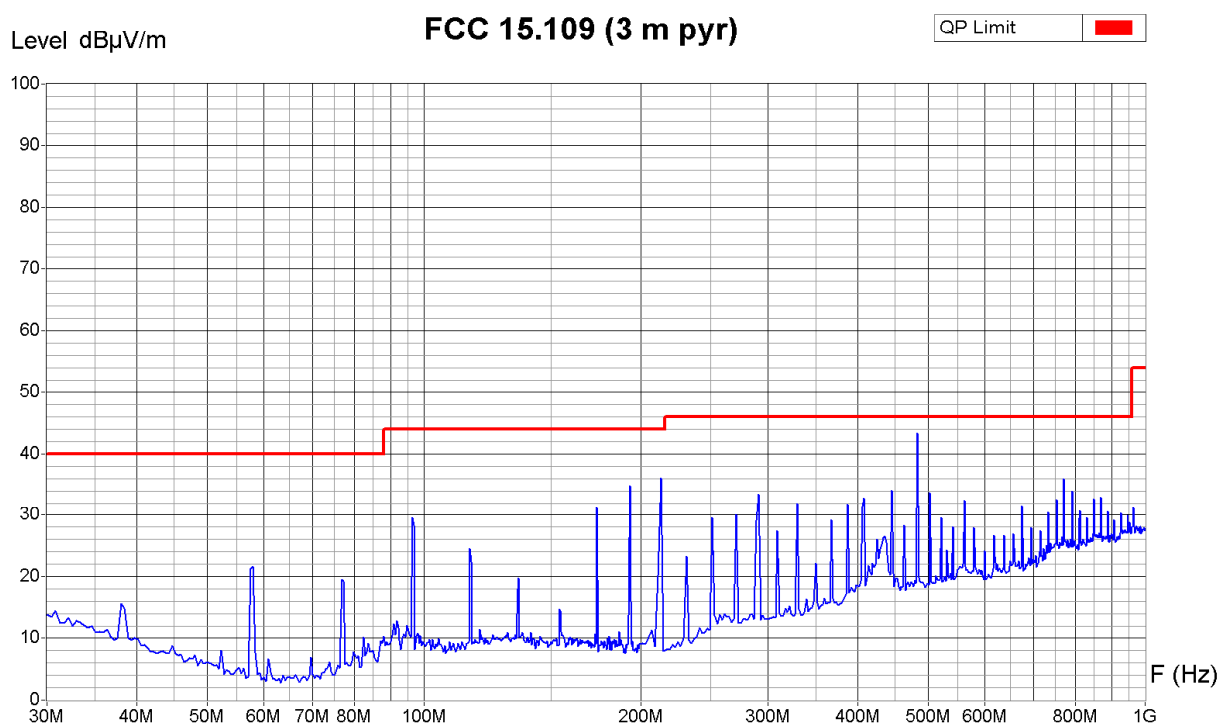


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode 2.48 GHz

Remarks : Mic labelled H



Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: Ding
Date/Time: 19.03.09 10:33
Filename:
g_Dyna_copy_2.48G_03.png/.txt

Measurement Type : Radiated Field

Polarisation : Horizontal

Table Angle : 0 - 360°

Antenna Height : 1 - 4 m

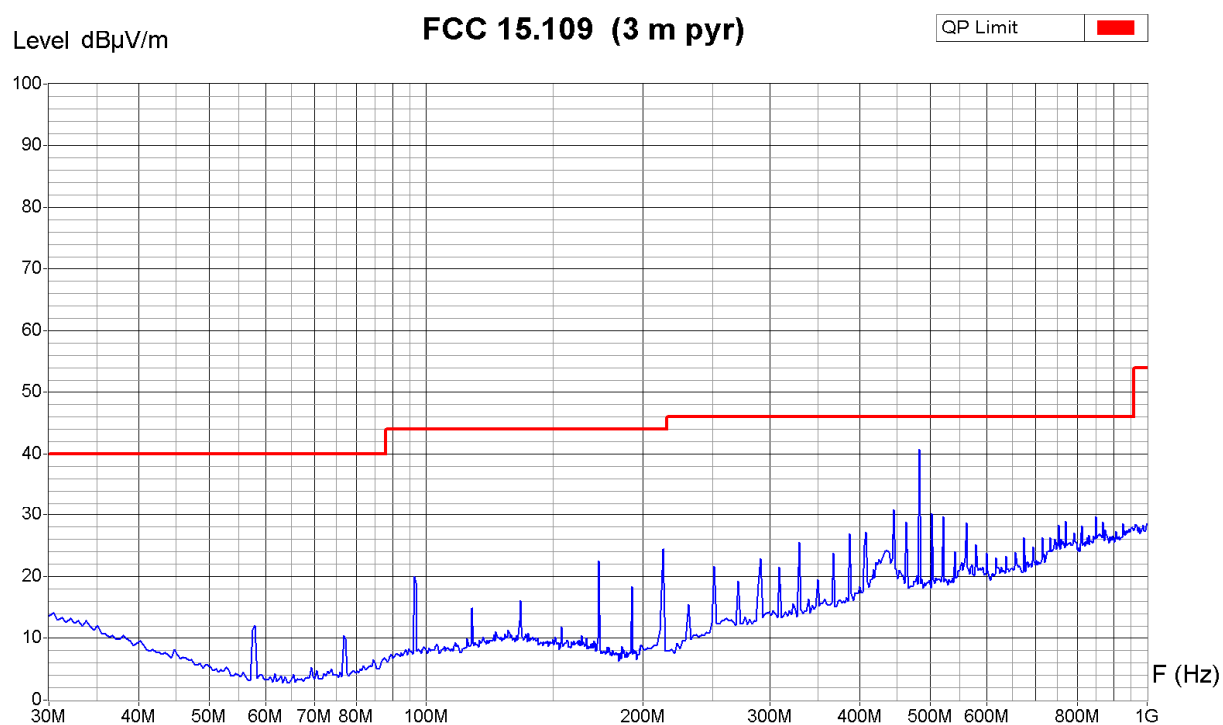


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode 2.48 GHz

Remarks : Mic labelled H



Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: Ding
 Date/Time: 19.03.09 10:42
 Filename:
 g_Dyna_copy_2.48G_04.png/.txt

6.2.2 Radiated emission - Electromagnetic field (1 GHz – 18 GHz)

Test site: ☒ anechoic chamber (foam) ☐ open test site
☐ anechoic chamber (ferrites) ☐

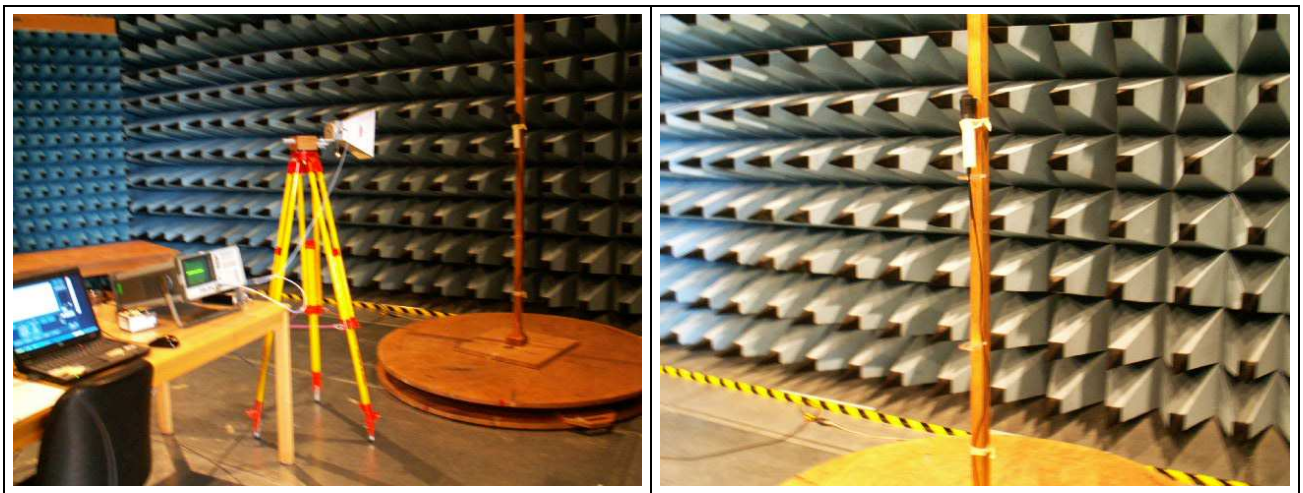
Distance: ☐ 30 m ☐ 10 m ☐ 3 m ☒ 1 m

Position of EUT: 1.5 m, antenna stretched vertically (height of the equipment under test above floor)

Meas. uncertainty: ± 4.7 dB

Test method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is placed at the same height as the EUT successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbances appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding a limit are remeasured manually using a receiver.

Test set-up:



Remarks: Limit values expressed in dBμV/m and transformed to a measuring distance of 1 m
(factor used = 20 dB/decade) if necessary
e.g.: for $f = 1$ GHz the limit is 500 μV/m at 3 m;

$$20 \log \left(\frac{500 \frac{\mu V}{m}}{1 \frac{\mu V}{m}} \right) + 20 \log \left(\frac{3m}{1m} \right) = 63.5 \frac{dB\mu V}{m} \text{ at } 1m$$

Test equipment:

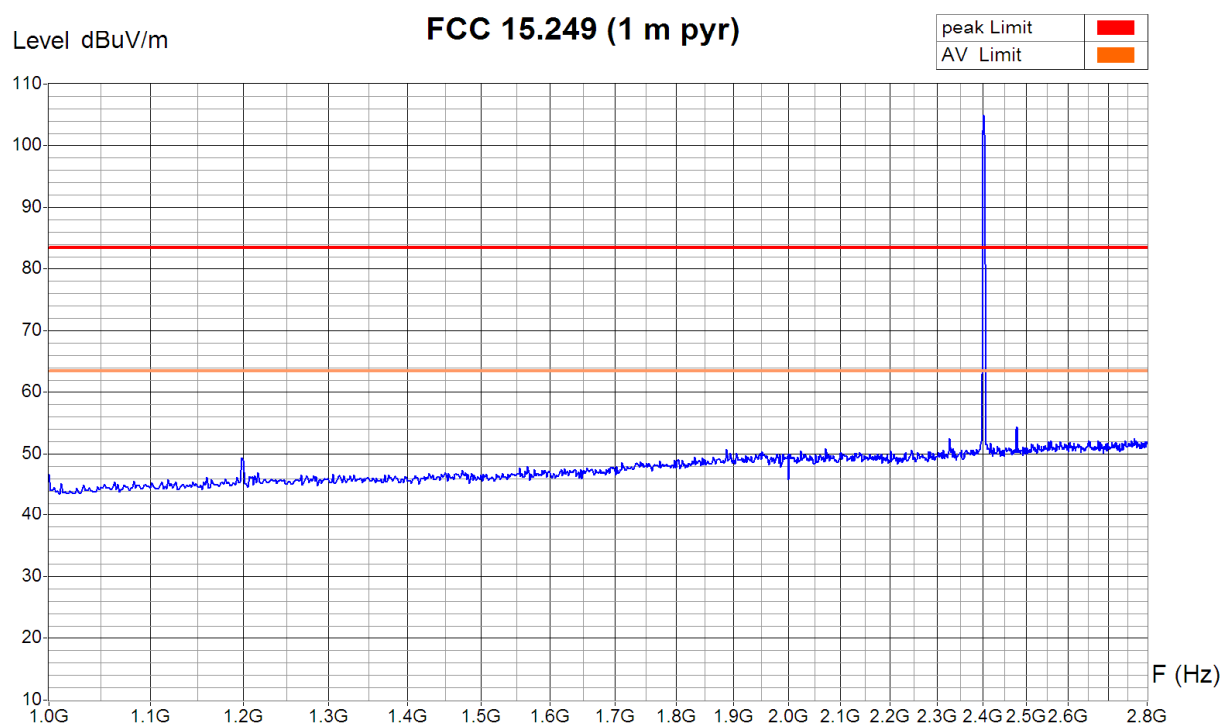
Spectrum analyser	☒ 88-14	☐ 90-26	☐ 94-24	☐ 02-06	☐ 03-45	☐ 03-57
Receiver	☐ 85-04	☐ 90-43	☐ 04-29			
Preamplifier	☐ 90-01	☐ 95-86	☒ 05-56	☐ 05-59	☐ 05-62	☒ 05-87
Antenna (horn)	☒ 90-24	☐ 90-29	☐ 98-12	☐ 98-13	☐	
Cables	☒ Succoflex 2 x 1m (8407/4) and (67688/4)					

Result:	☒ pass	☐ fail	☐ not applicable	☐ not tested
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Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0-360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continous emission, mod, f = 2.4 GHz, Pmax
Remarks :



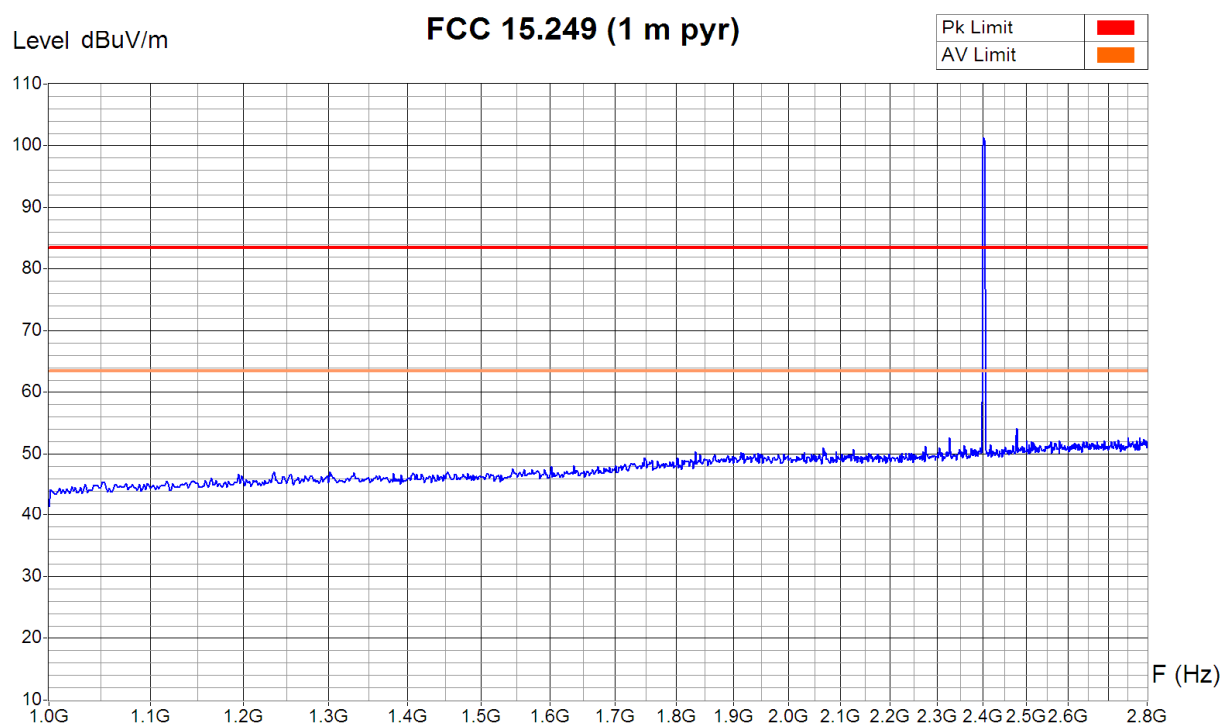
Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
Date/Time: 10.03.2009 15:20
Filename:
b_fcc249_2_4GHZ_01.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0-360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continous emission, mod, f = 2.4 GHz, Pmax
Remarks :



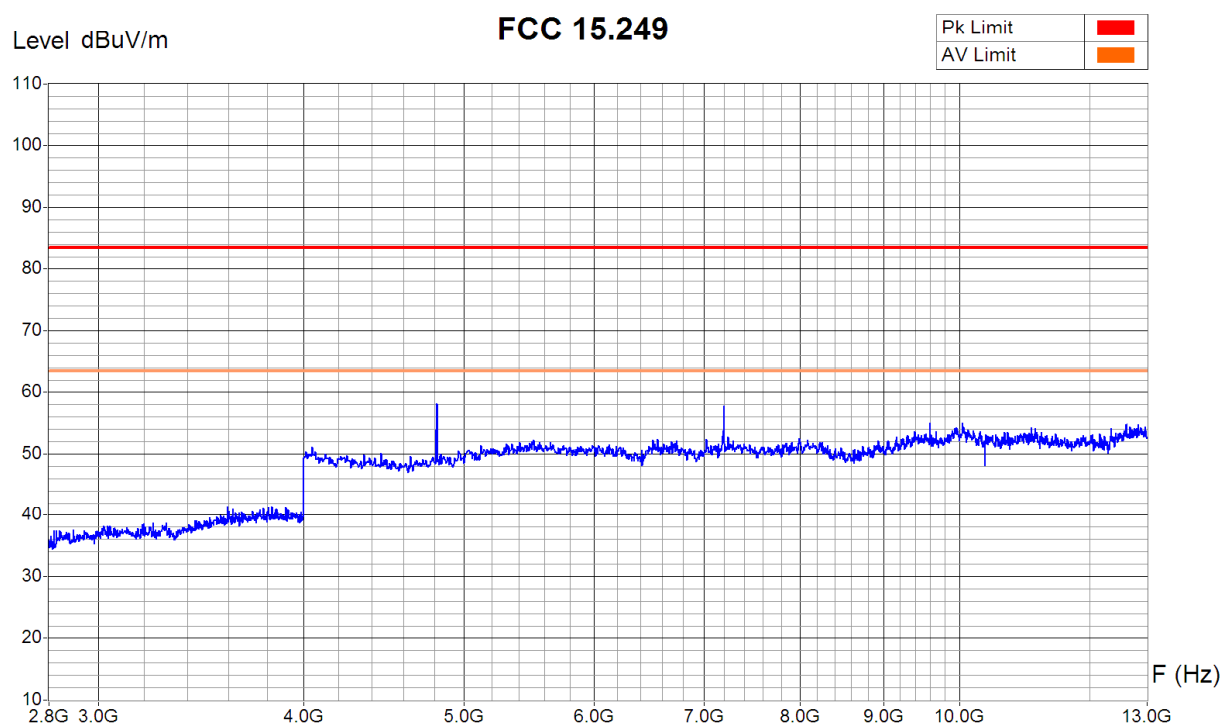
Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
Date/Time: 10.03.2009 15:40
Filename:
b_fcc249_2_4GHZ_02.png/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0-360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continous emission 2.4 GHz, mod, Pmax
Remarks :



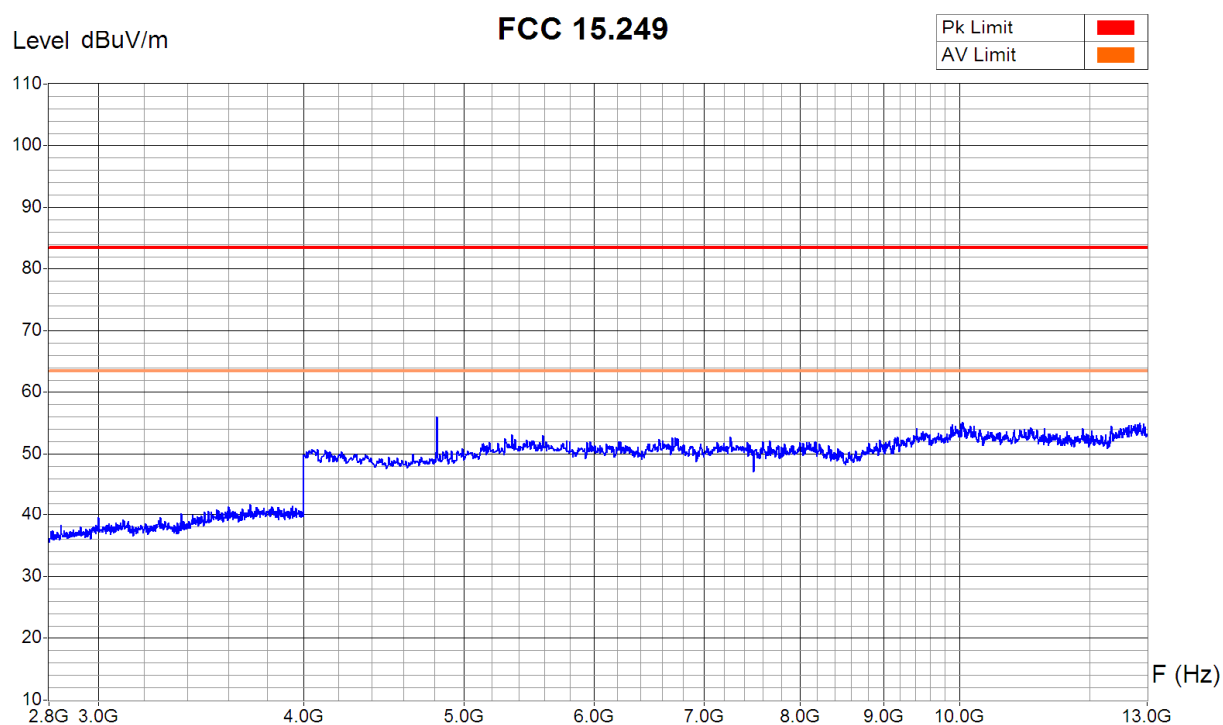
Zone	2.80 GHz - 4 GHz	4 GHz - 7 GHz	7 GHz - 10 GHz	10 GHz - 13 GHz
Video Bandwidth	1 MHz	1 MHz	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz	1 MHz	1 MHz

Operator: Ding
Date/Time: 10.03.2009 16:54
Filename:
b_fcc249_2_4GHZ_2zone_07.png
/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0-360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continous emission 2.4 GHz, mod, Pmax
Remarks :



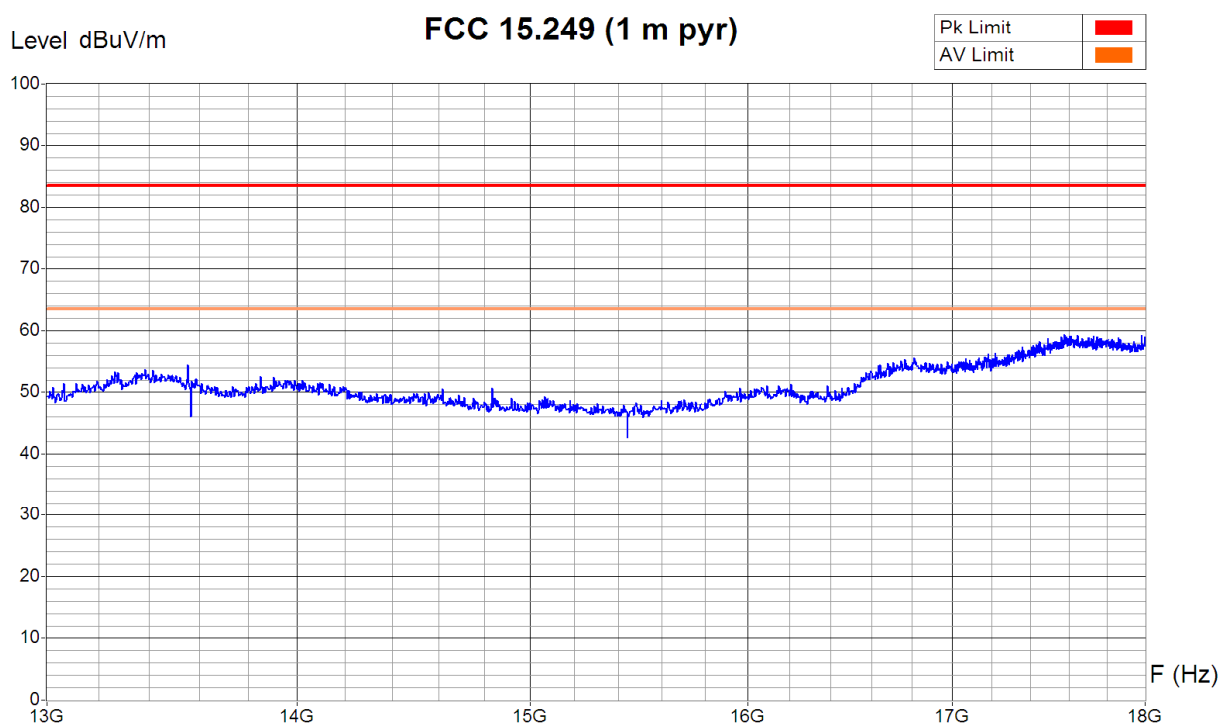
Zone	2.80 GHz - 4 GHz	4 GHz - 7 GHz	7 GHz - 10 GHz	10 GHz - 13 GHz
Video Bandwidth	1 MHz	1 MHz	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz	1 MHz	1 MHz

Operator: Ding
Date/Time: 10.03.2009 17:03
Filename:
b_fcc249_2_4GHZ_2zone_08.png
/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0-360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continuous emission 2.4 GHz, mod, Pmax
Remarks : Mic labelled N



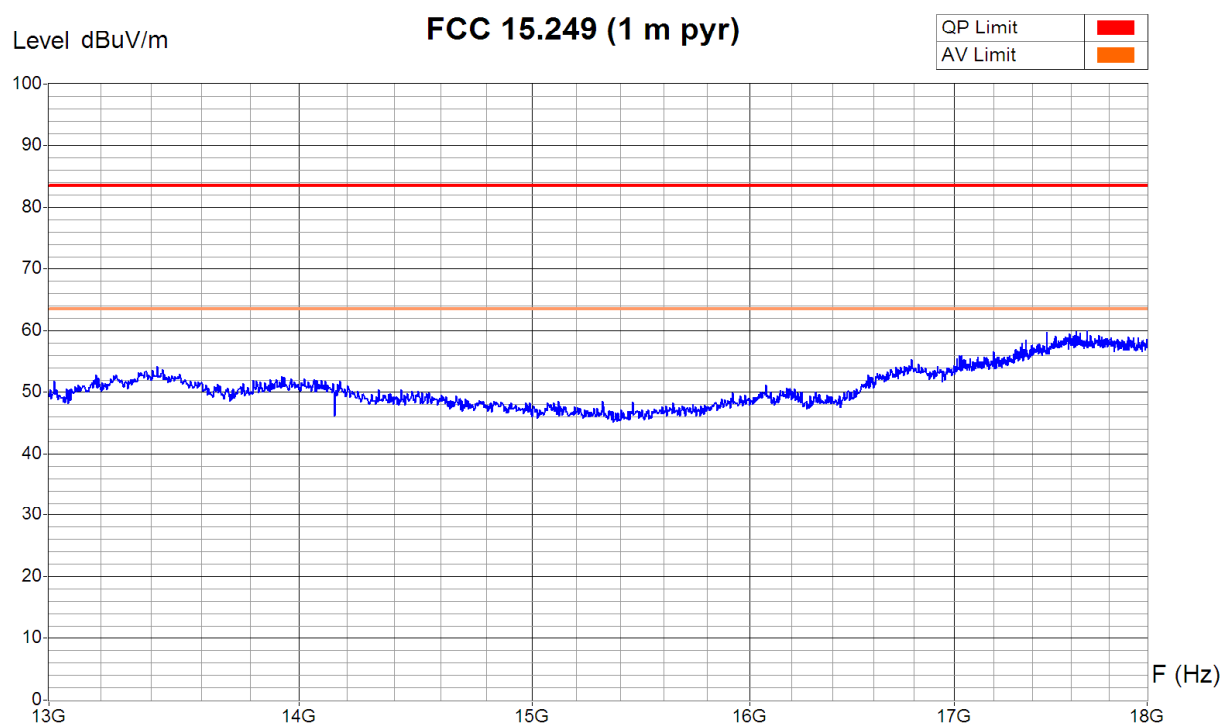
Zone	13 GHz - 15 GHz	15 GHz - 17 GHz	17 GHz - 18 GHz
Video Bandwidth	300 KHz	300 KHz	300 KHz
Resol Bandwidth	300 KHz	300 KHz	300 KHz

Operator: Ding
Date/Time: 11.03.2009 08:50
Filename:
b_fcc249_2_4GHZ_3zone_09.png
/.txt

Measurement Type : Radiated Field
 Polarisation : Horizontal
 Table Angle : 0-360°
 Antenna Height : 1.5 m



Equipment Under Test : DynaMic
 Set-Up : s. photo, with USB cable
 Operating Conditions : continous emission 2.4 GHz, mod, Pmax
 Remarks : Mic labelled N



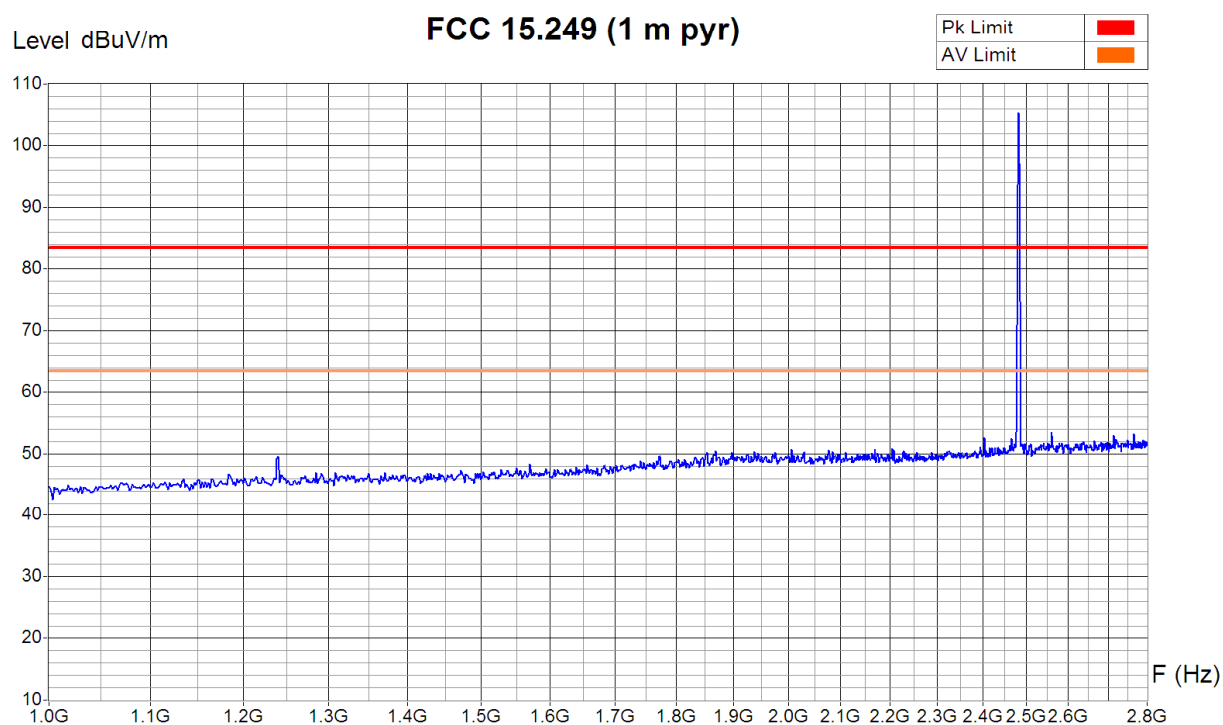
Zone	13 GHz - 15 GHz	15 GHz - 17 GHz	17 GHz - 18 GHz
Video Bandwidth	300 KHz	300 KHz	300 KHz
Resol Bandwidth	300 KHz	300 KHz	300 KHz

Operator: Ding
 Date/Time: 11.03.2009 09:45
 Filename:
 b_fcc249_2_4GHZ_3zone_10.png
 /txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0-360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continous emission, mod, f = 2.48 GHz, Pmax
Remarks :



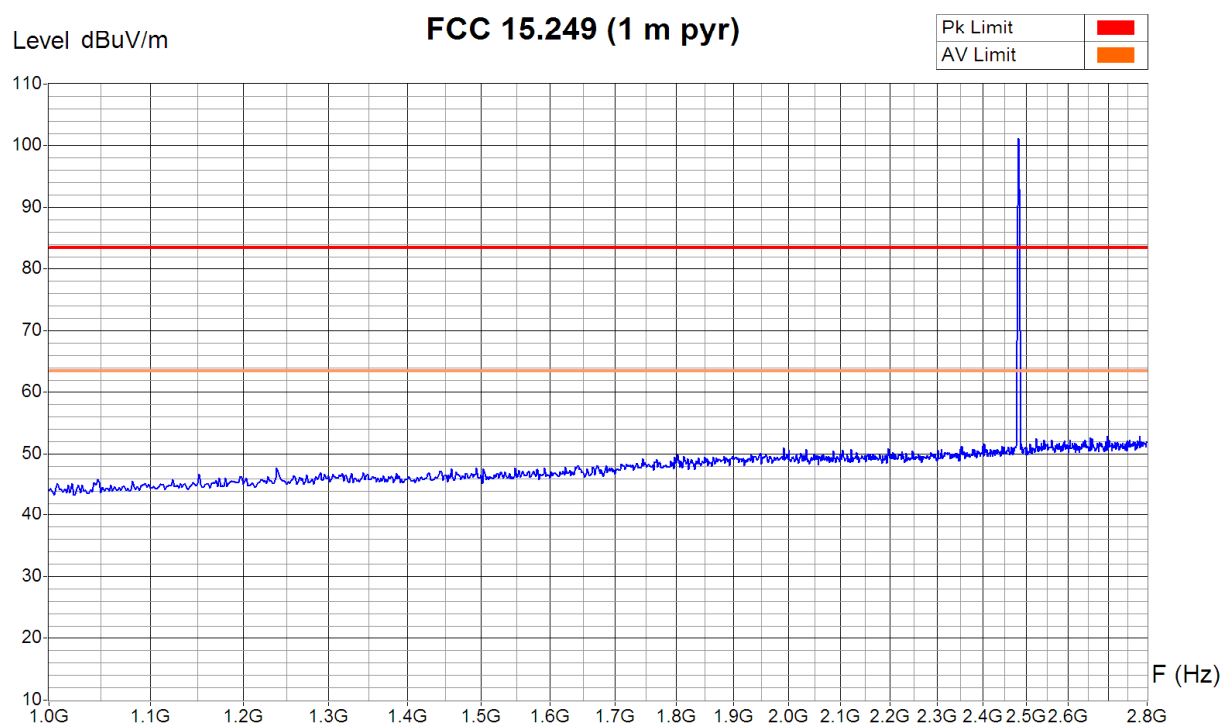
Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
Date/Time: 10.03.2009 15:47
Filename:
b_fcc249_2_48GHZ_03.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0-360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continous emission, mod, f = 2.48 GHz, Pmax
Remarks :



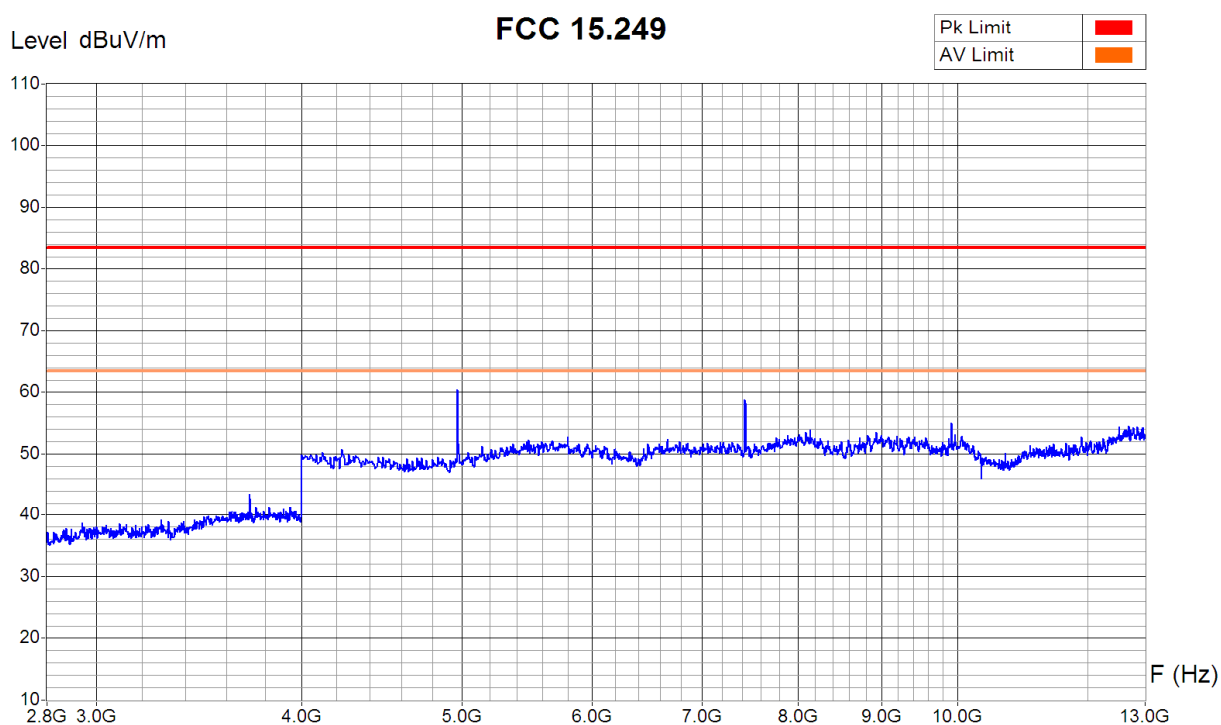
Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
Date/Time: 10.03.2009 15:50
Filename:
b_fcc249_2_48GHZ_04.png/.txt

Measurement Type : Radiated Field
 Polarisation : Vertical
 Table Angle : 0-360°
 Antenna Height : 1.5 m



Equipment Under Test : DynaMic
 Set-Up : s. photo, with USB cable
 Operating Conditions : continous emission 2.48 GHz, mod, Pmax
 Remarks :



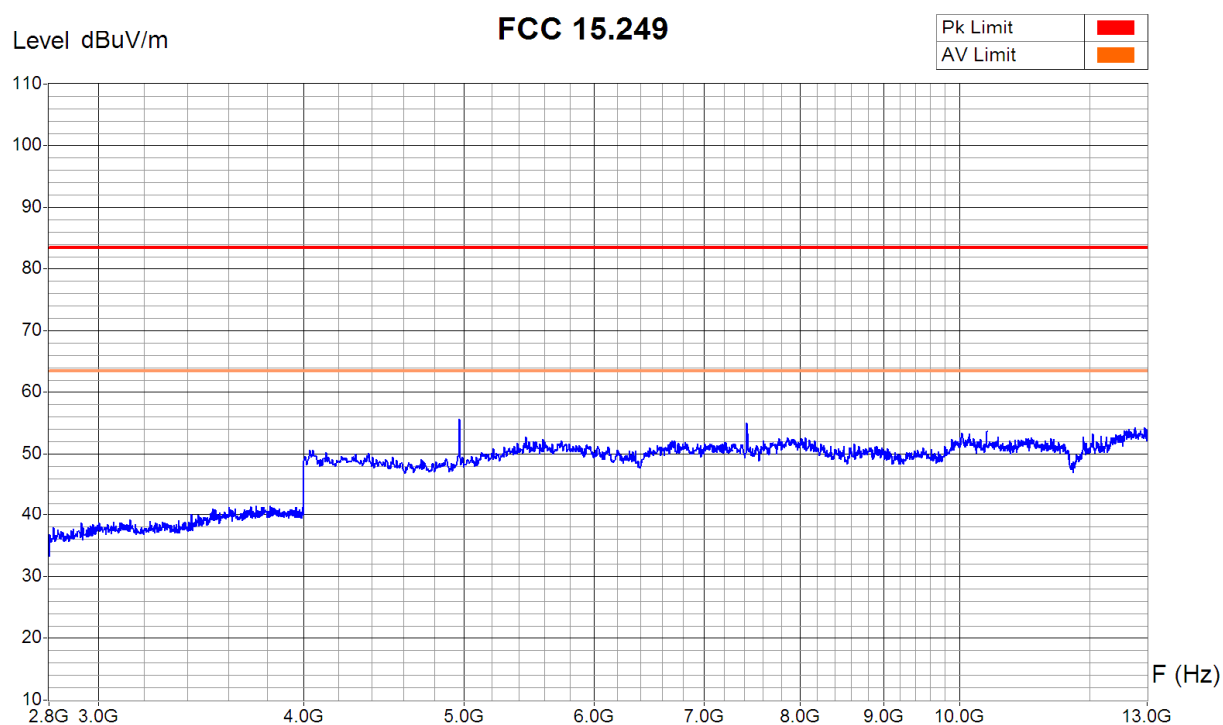
Zone	2.80 GHz - 4 GHz	4 GHz - 7 GHz	7 GHz - 10 GHz	10 GHz - 13 GHz
Video Bandwidth	1 MHz	1 MHz	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz	1 MHz	1 MHz

Operator: Ding
 Date/Time: 10.03.2009 16:30
 Filename:
 b_fcc249_2_48GHZ_2zone_05.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0-360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continous emission 2.48 GHz, mod, Pmax
Remarks :



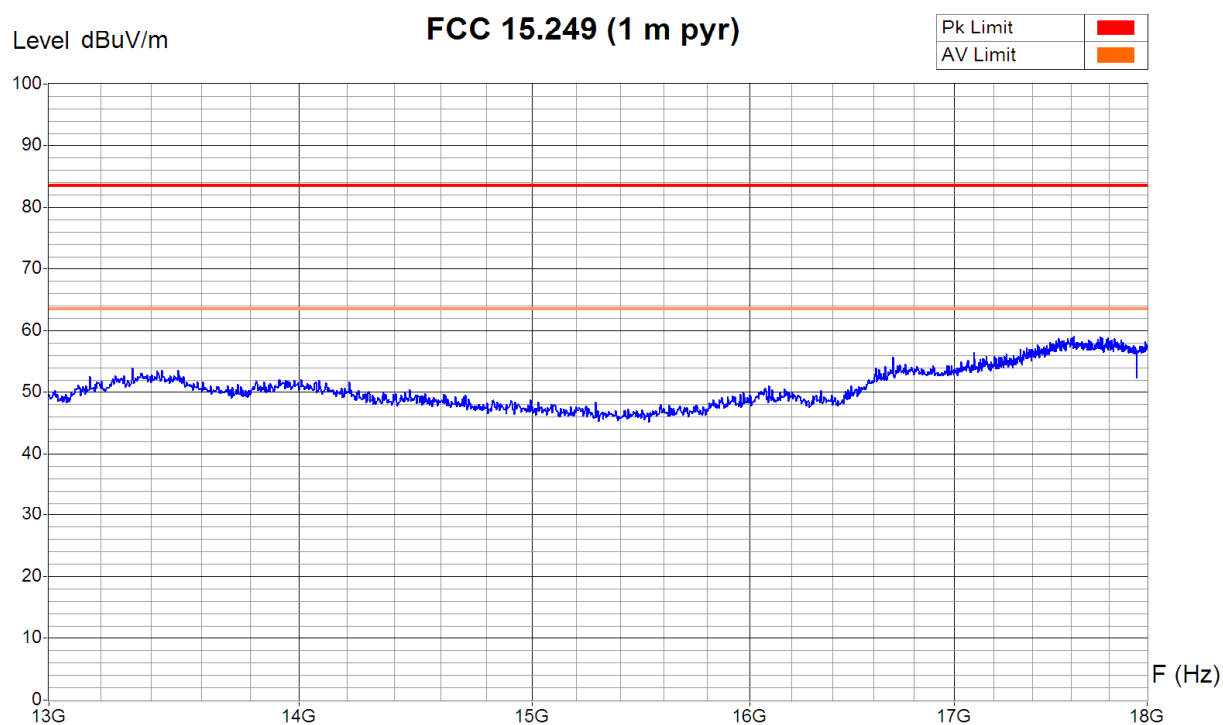
Zone	2.80 GHz - 4 GHz	4 GHz - 7 GHz	7 GHz - 10 GHz	10 GHz - 13 GHz
Video Bandwidth	1 MHz	1 MHz	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz	1 MHz	1 MHz

Operator: Ding
Date/Time: 10.03.2009 16:38
Filename:
b_fcc249_2_48GHZ_2zone_06.png/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0-360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continuous emission 2.48 GHz, mod, Pmax
Remarks : Mic labelled N



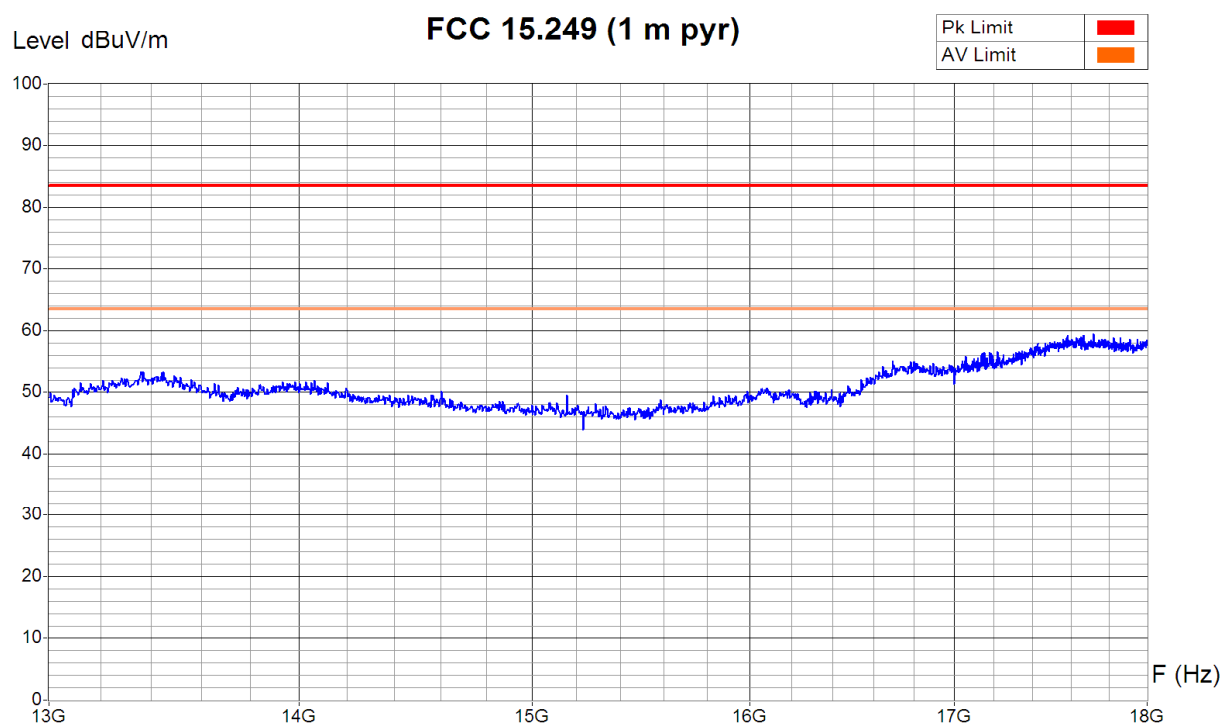
Zone	13 GHz - 15 GHz	15 GHz - 17 GHz	17 GHz - 18 GHz
Video Bandwidth	300 KHz	300 KHz	300 KHz
Resol Bandwidth	300 KHz	300 KHz	300 KHz

Operator: Ding
Date/Time: 11.03.2009 09:57
Filename:
b_fcc249_2_48GHZ_3zone_11.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0-360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continuous emission 2.48 GHz, mod, Pmax
Remarks : Mic labelled N



Zone	13 GHz - 15 GHz	15 GHz - 17 GHz	17 GHz - 18 GHz
Video Bandwidth	300 KHz	300 KHz	300 KHz
Resol Bandwidth	300 KHz	300 KHz	300 KHz

Operator: Ding
Date/Time: 11.03.2009 10:03
Filename:
b_fcc249_2_48GHZ_3zone_12.png/.txt

Measurement Type : Radiated Field

Polarisation : Vertical

Table Angle : 0 - 360°

Antenna Height : 1.5 m

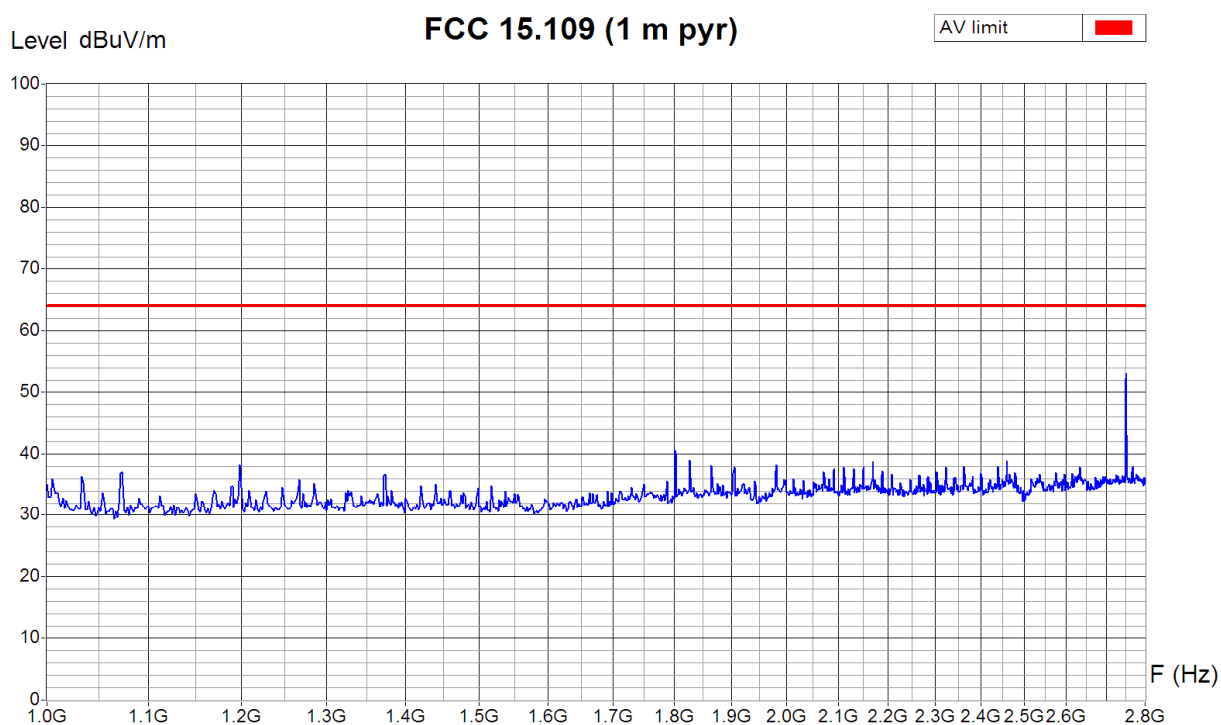


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode, 2.4 GHz

Remarks : Mic Labelled N



Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
Date/Time: 18.03.2009 11:04
Filename:
e_DynaMic_Rx_2_4GHz_01.png/
.txt

Measurement Type : Radiated Field

Polarisation : Horizontal

Table Angle : 0 - 360°

Antenna Height : 1.5 m

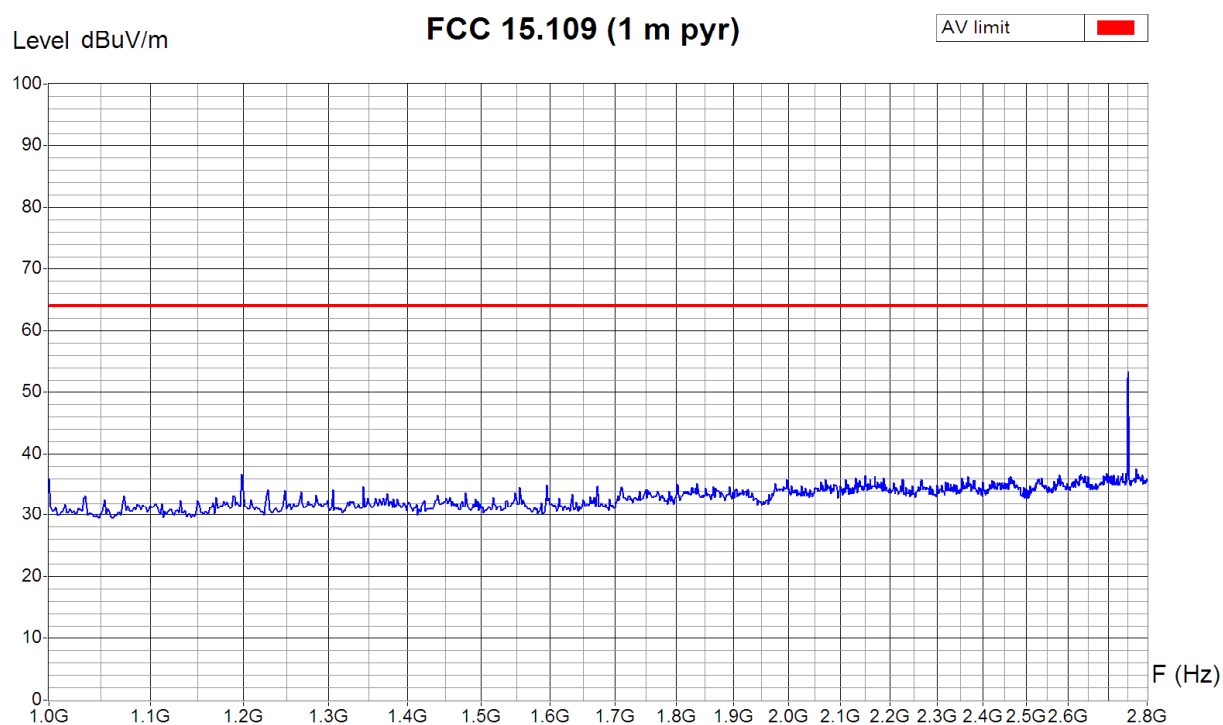


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode, 2.4 GHz

Remarks : Mic Labelled N



Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
Date/Time: 18.03.2009 11:10
Filename:
e_DynaMic_Rx_2_4GHz_02.png/
.txt

Measurement Type : Radiated Field

Polarisation : Vertical

Table Angle : 0-360°

Antenna Height : 1.5 m

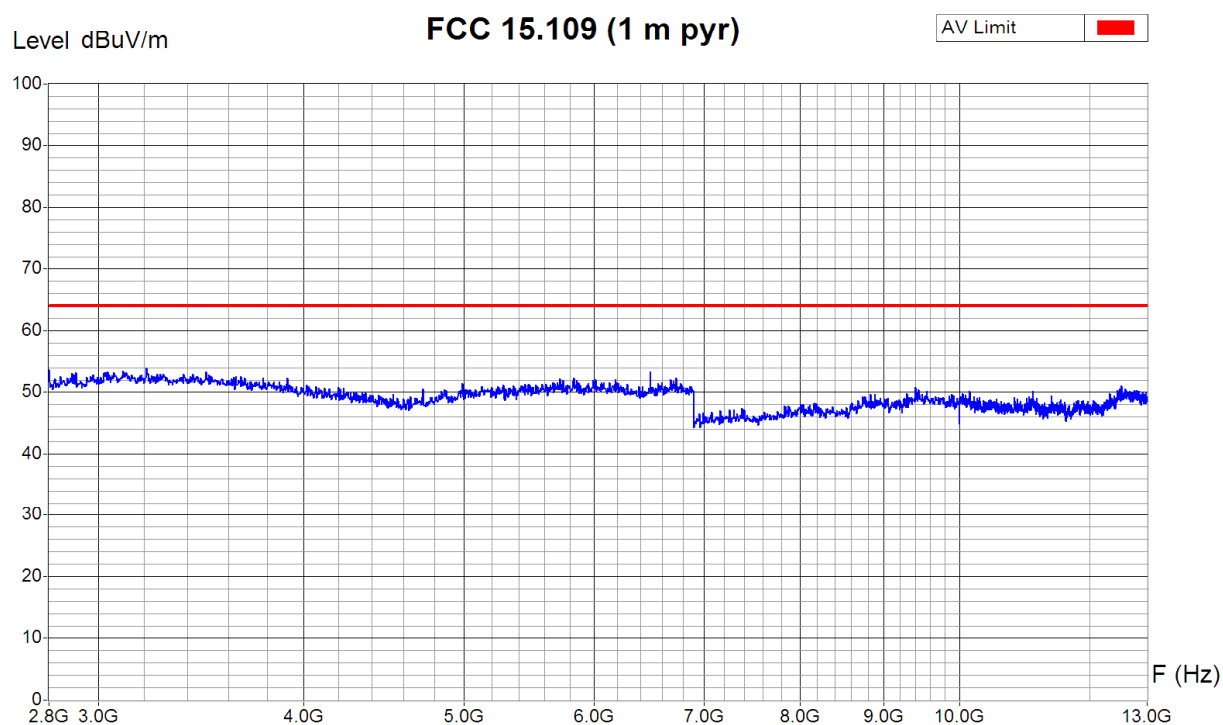


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode 2.4 GHz

Remarks : Mic labelled N



Zone	2.80 GHz - 4.60	4.60 GHz - 6.90	6.90 GHz - 10 GHz	10 GHz - 11.50 GHz	11.50 GHz - 13 GHz
Video Bandwidth	1 MHz	1 MHz	300 KHz	300 KHz	300 KHz
Resol Bandwidth	1 MHz	1 MHz	300 KHz	300 KHz	300 KHz

Operator: Ding
Date/Time: 18.03.2009 13:45
Filename:
e_DynaMic_Rx_2_4GHz_2nZone_
07.png/.txt

Measurement Type : Radiated Field

Polarisation : Horizontal

Table Angle : 0-360°

Antenna Height : 1.5 m

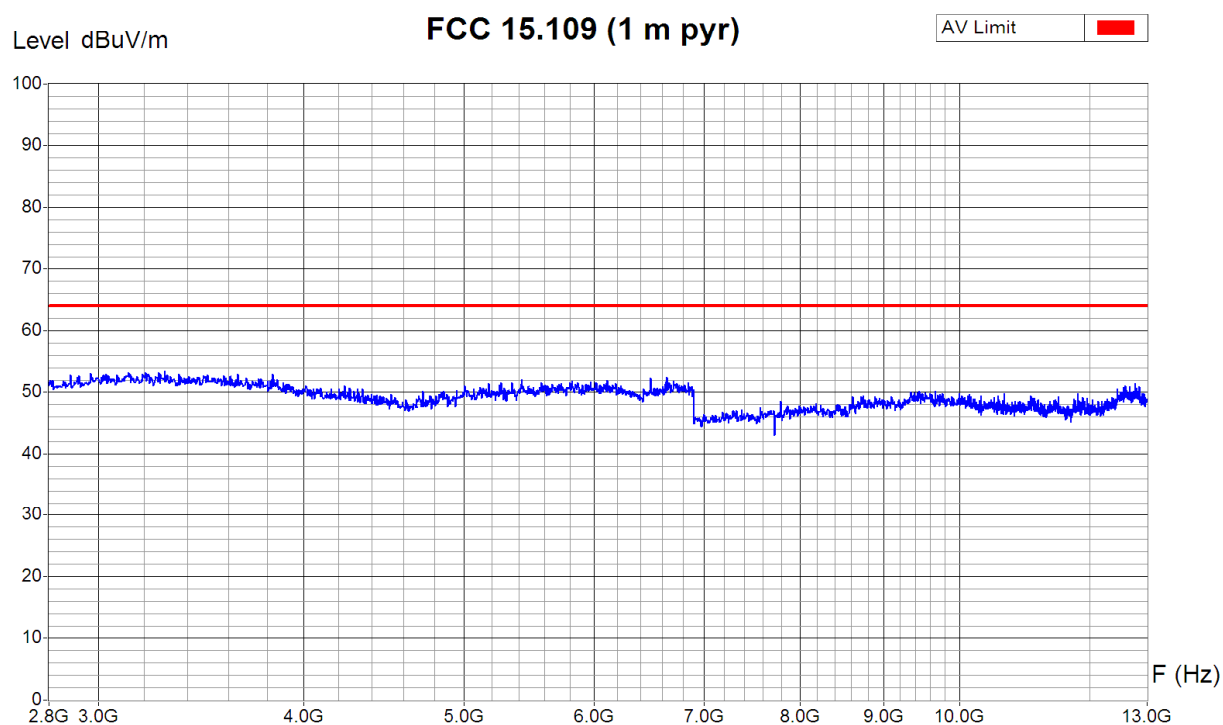


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode 2.4 GHz

Remarks : Mic labelled N



Zone	2.80 GHz - 4.60	4.60 GHz - 6.90	6.90 GHz - 10 GHz	10 GHz - 11.50 GHz	11.50 GHz - 13 GHz
Video Bandwidth	1 MHz	1 MHz	300 KHz	300 KHz	300 KHz
Resol Bandwidth	1 MHz	1 MHz	300 KHz	300 KHz	300 KHz

Operator: Ding
 Date/Time: 18.03.2009 13:52
 Filename:
 e_DynaMic_Rx_2_4GHz_2nZone_
 08.png/.txt

Measurement Type : Radiated Field

Polarisation : Vertical

Table Angle : 0 - 360 °

Antenna Height : 1 - 4 m

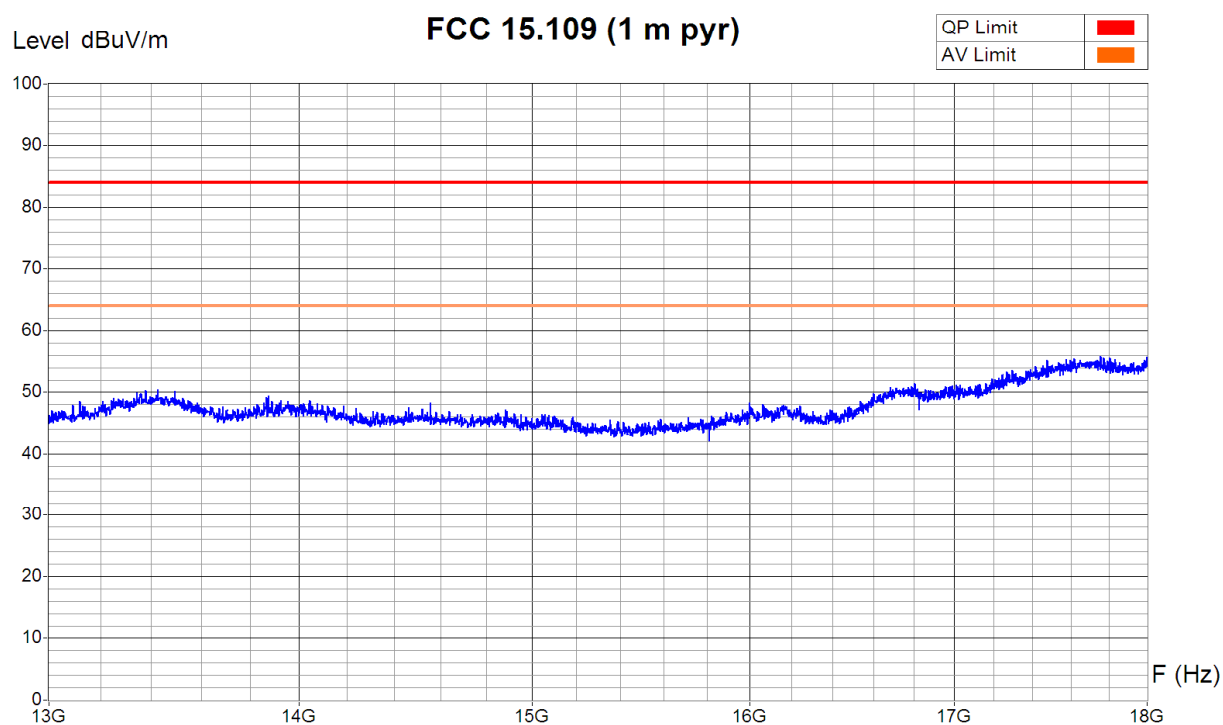


Equipment Under Test : DYnaMic

Set-Up : s. photo, with USB cable

Operating Conditions : Receive mode 2.4 GHz

Remarks : Mic labelled N



Zone	13 GHz - 14 GHz	14 GHz - 15 GHz	15 GHz - 16 GHz	16 GHz - 17 GHz	17 GHz - 18 GHz
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding

Date/Time: 18.03.2009 14:10

Filename:
e_DynaMic_Rx_2_4GHz_3rdZone
_09.png/.txt

Measurement Type : Radiated Field

Polarisation : Horizontal

Table Angle : 0 - 360 °

Antenna Height : 1 - 4 m

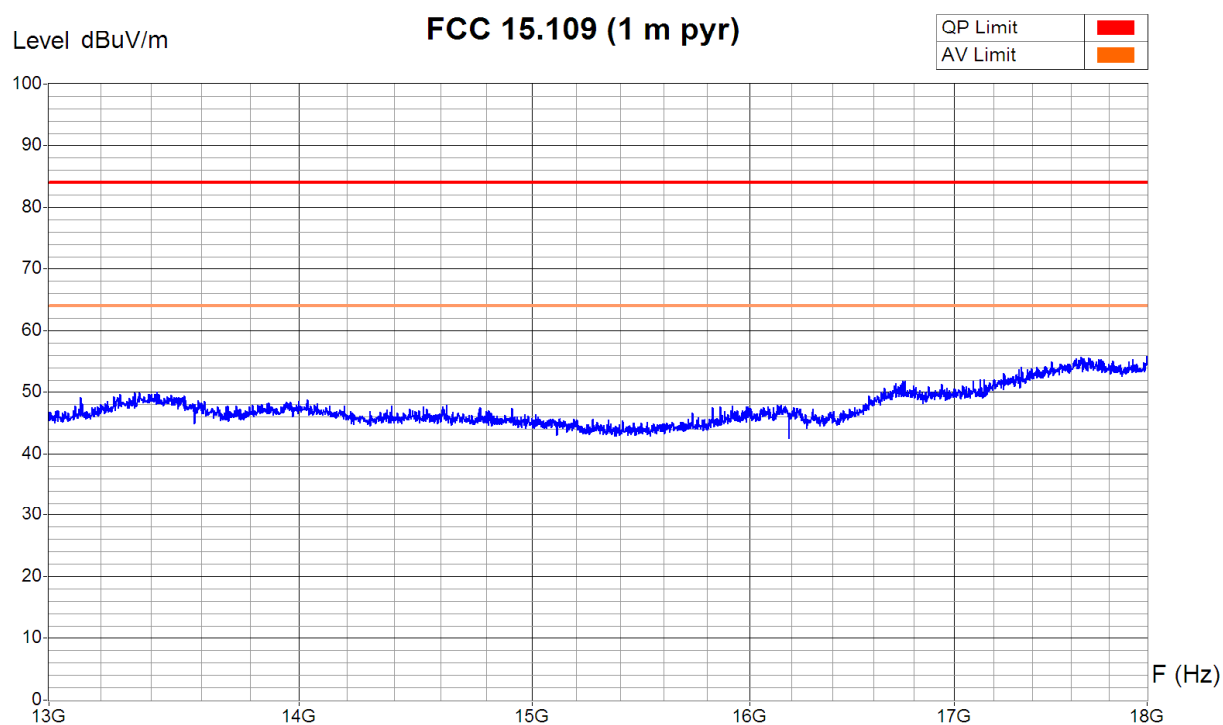


Equipment Under Test : DYnaMic

Set-Up : s. photo, with USB cable

Operating Conditions : Receive mode 2.4 GHz

Remarks : Mic labelled N



Zone	13 GHz - 14 GHz	14 GHz - 15 GHz	15 GHz - 16 GHz	16 GHz - 17 GHz	17 GHz - 18 GHz
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
Date/Time: 18.03.2009 14:22
Filename:
e_DynaMic_Rx_2_4GHz_3rdZone
_10.png/.txt

Measurement Type : Radiated Field

Polarisation : Vertical

Table Angle : 0 - 360°

Antenna Height : 1.5 m

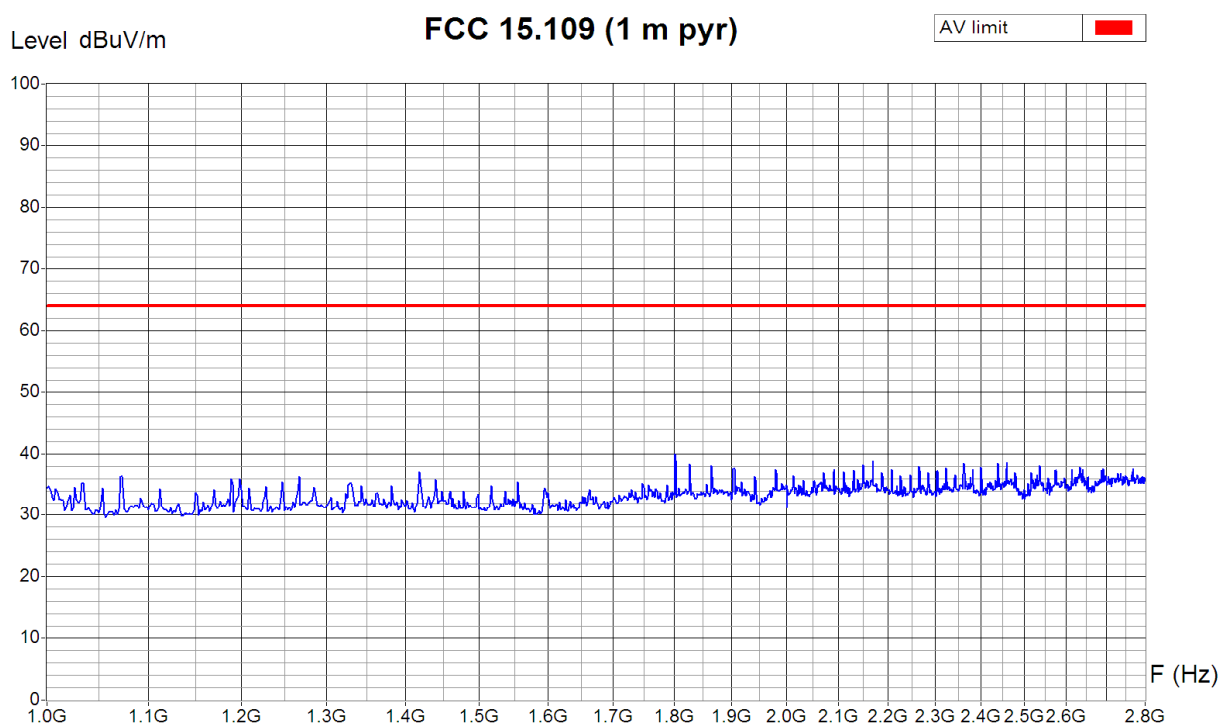


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode, 2.48 GHz

Remarks : Mic Labelled N



Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
Date/Time: 18.03.2009 11:16
Filename:
e_DynaMic_Rx_2_48GHz_03.png/
.txt

Measurement Type : Radiated Field

Polarisation : Horizontal

Table Angle : 0 - 360°

Antenna Height : 1.5 m

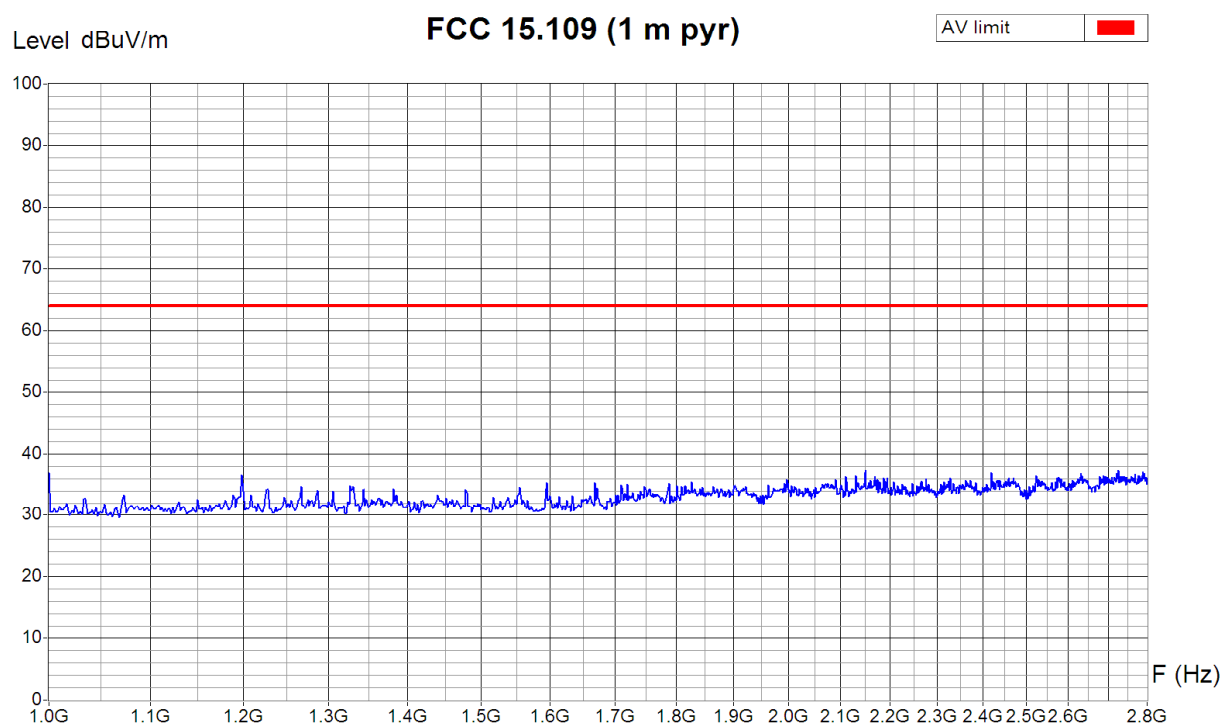


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode, 2.48 GHz

Remarks : Mic Labelled N



Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
Date/Time: 18.03.2009 11:19
Filename:
e_DynaMic_Rx_2_48GHz_04.png/
.txt

Measurement Type : Radiated Field

Polarisation : Vertical

Table Angle : 0-360°

Antenna Height : 1.5 m

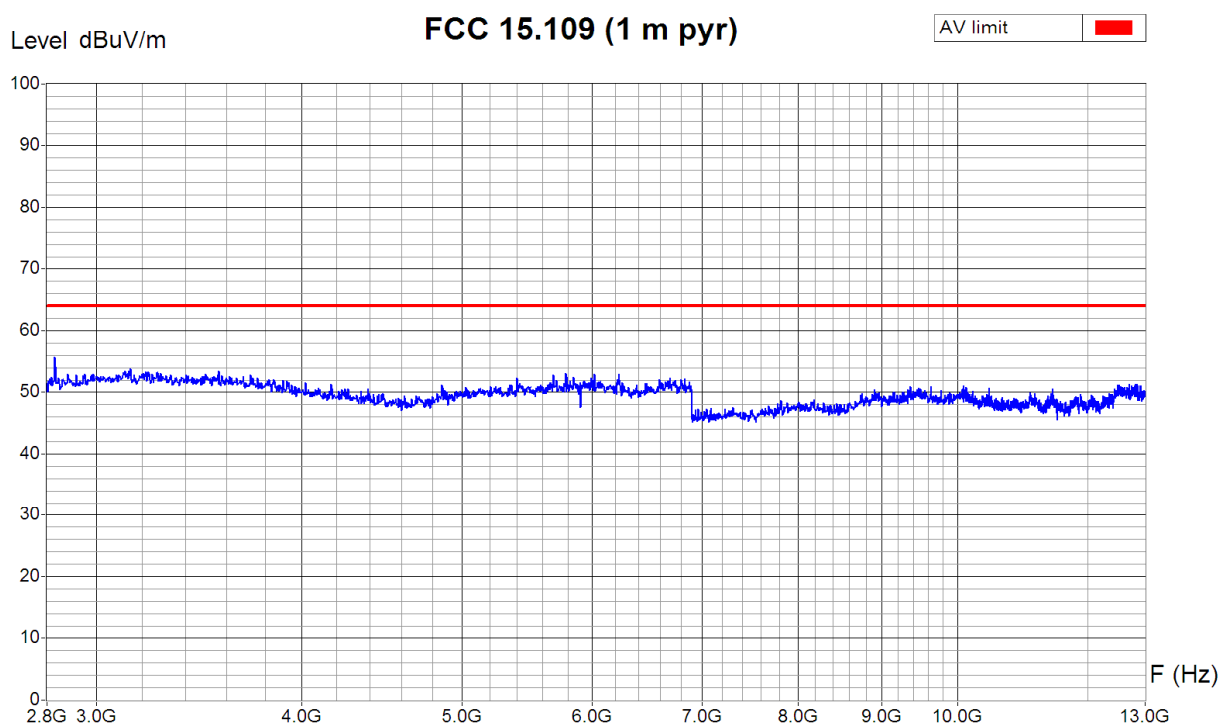


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode 2.48 GHz

Remarks : Mic labelled N



Zone	2.80 GHz - 4.60	4.60 GHz - 6.90	6.90 GHz - 10 GHz	10 GHz - 11.50 GHz	11.50 GHz - 13 GHz
Video Bandwidth	1 MHz	1 MHz	300 KHz	300 KHz	300 KHz
Resol Bandwidth	1 MHz	1 MHz	300 KHz	300 KHz	300 KHz

Operator: Ding
 Date/Time: 18.03.2009 11:27
 Filename:
 e_DynaMic_Rx_2_48GHz_2nZone
 _05.png/.txt

Measurement Type : Radiated Field

Polarisation : Horizontal

Table Angle : 0-360°

Antenna Height : 1.5 m

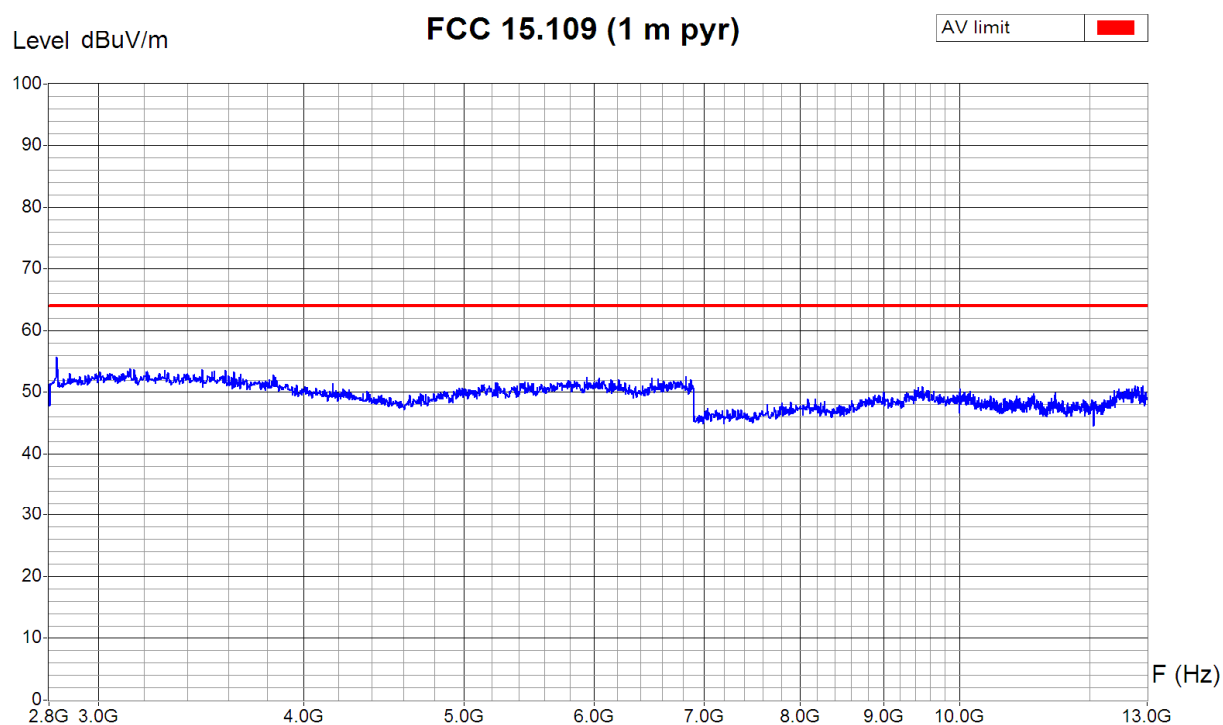


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode 2.48 GHz

Remarks : Mic labelled N



Zone	2.80 GHz - 4.60	4.60 GHz - 6.90	6.90 GHz - 10 GHz	10 GHz - 11.50 GHz	11.50 GHz - 13 GHz
Video Bandwidth	1 MHz	1 MHz	300 KHz	300 KHz	300 KHz
Resol Bandwidth	1 MHz	1 MHz	300 KHz	300 KHz	300 KHz

Operator: Ding
Date/Time: 18.03.2009 11:35
Filename:
e_DynaMic_Rx_2_48GHz_2nZone
_06.png/.txt

Measurement Type : Radiated Field

Polarisation : Vertical

Table Angle : 0 - 360 °

Antenna Height : 1 - 4 m

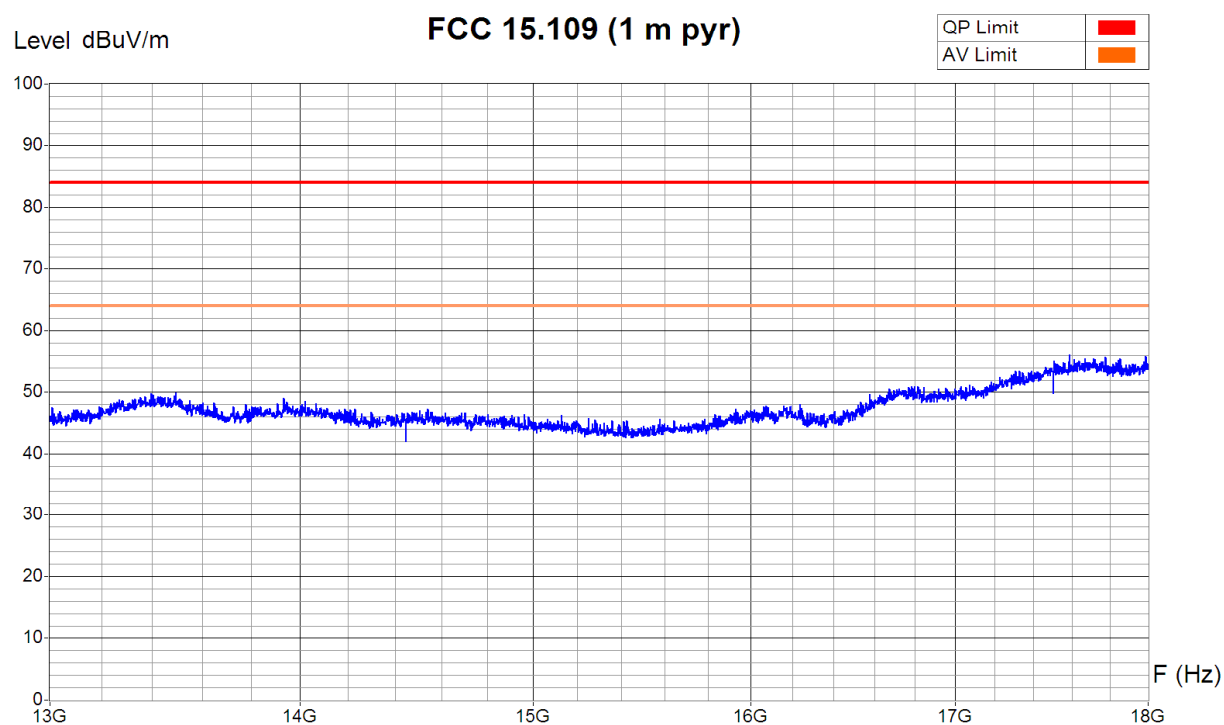


Equipment Under Test : DYnaMic

Set-Up : s. photo, with USB cable

Operating Conditions : Receive mode 2.48 GHz

Remarks : Mic labelled N



Zone	13 GHz - 14 GHz	14 GHz - 15 GHz	15 GHz - 16 GHz	16 GHz - 17 GHz	17 GHz - 18 GHz
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
 Date/Time: 18.03.2009 14:34
 Filename:
 e_DynaMic_Rx_2_48GHz_3rdZon
 e_11.png/.txt

Measurement Type : Radiated Field

Polarisation : Horizontal

Table Angle : 0 - 360 °

Antenna Height : 1 - 4 m

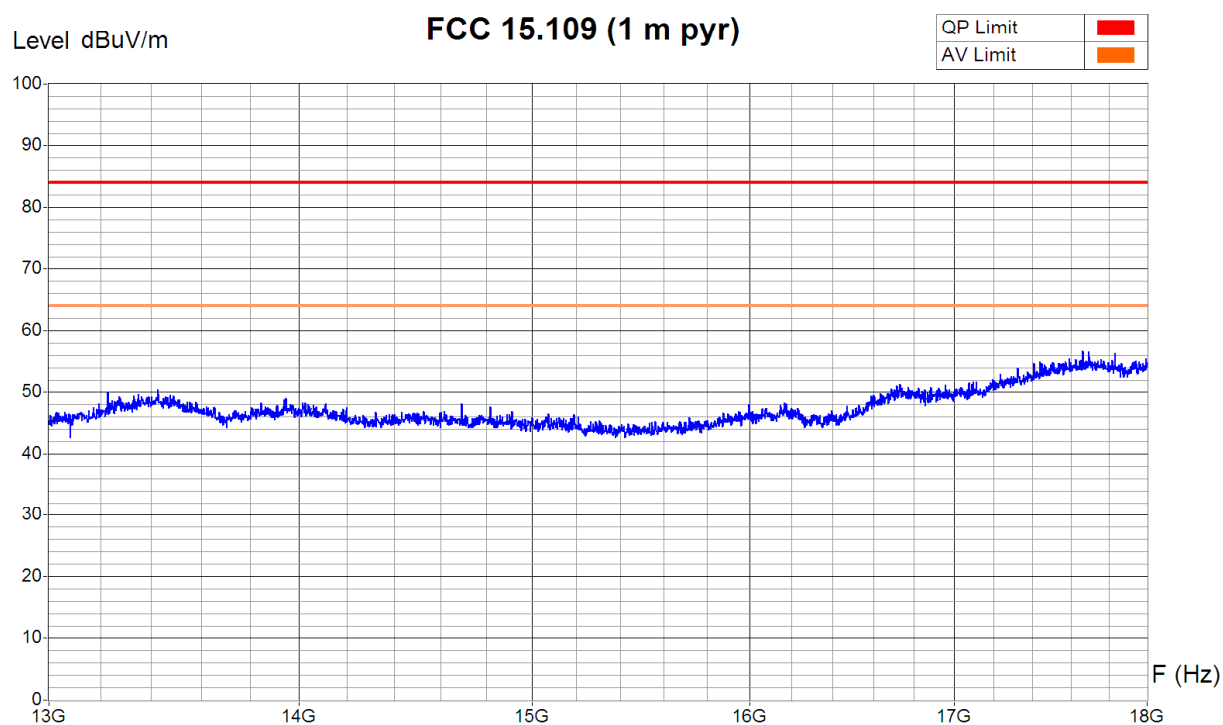


Equipment Under Test : DYnaMic

Set-Up : s. photo, with USB cable

Operating Conditions : Receive mode 2.48 GHz

Remarks : Mic labelled N



Zone	13 GHz - 14 GHz	14 GHz - 15 GHz	15 GHz - 16 GHz	16 GHz - 17 GHz	17 GHz - 18 GHz
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
 Date/Time: 18.03.2009 14:39
 Filename:
 e_DynaMic_Rx_2_48GHz_3rdZon
 e_12.png/.txt

6.2.3 Radiated emission - Electromagnetic field (18 GHz – 26.5 GHz)

Test site: ☒ anechoic chamber (foam) ☐ open test site
☐ anechoic chamber (ferrites) ☐
 Distance: ☐ 30 m ☐ 10 m ☐ 3 m ☒ 1 m
 Position of EUT: 1.5 m, antenna stretched vertically (height of the equipment under test above floor)
 Meas. uncertainty: ± 5.4 dB
 Test method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is placed at the same height as the EUT successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbances appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding a limit are remeasured manually using a receiver.

Test set-up:



Remarks: Limit values expressed in dBμV/m and transformed to a measuring distance of 1 m (factor used = 20 dB/decade) if necessary
 e.g.: for $f = 18$ GHz the limit is 500 μV/m at 3 m;

$$20 \log \left(\frac{500 \frac{\mu V}{m}}{1 \frac{\mu V}{m}} \right) + 20 \log \left(\frac{3m}{1m} \right) = 63.5 \frac{dB\mu V}{m} \text{ at } 1m$$

Test equipment:

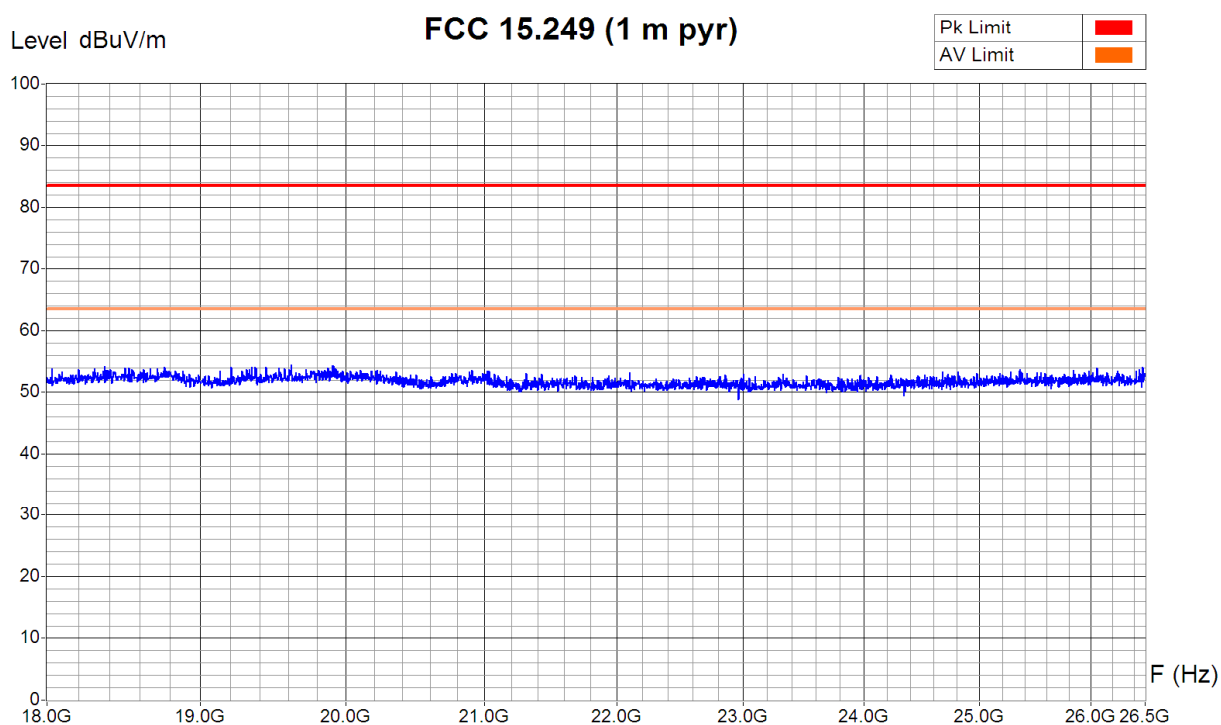
Spectrum analyser	☒ 88-14	☐ 90-26	☐ 94-24	☐ 02-06	☐ 03-45	☐ 03-57
Receiver	☐ 85-04	☐ 90-43	☐ 04-29			
Preamplifier	☐ 90-01	☐ 95-86	☐ 05-56	☐ 05-59	☐ 05-62	☒ None
Antenna (horn)	☐ 90-24	☐ 90-29	☐ 98-12	☐ 98-13	☒ 3160-09	
External mixers	☒ 11970K (ext mixer : default setting in 88-14)					
Cables	☒ Succoflex 2 x 1m (8407/4) and (67688/4) as short as possible					

Result: ☒ pass ☐ fail ☐ not applicable ☐ not tested

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continuous emission 2.4 GHz, mod, Pmax
Remarks : Mic labelled N



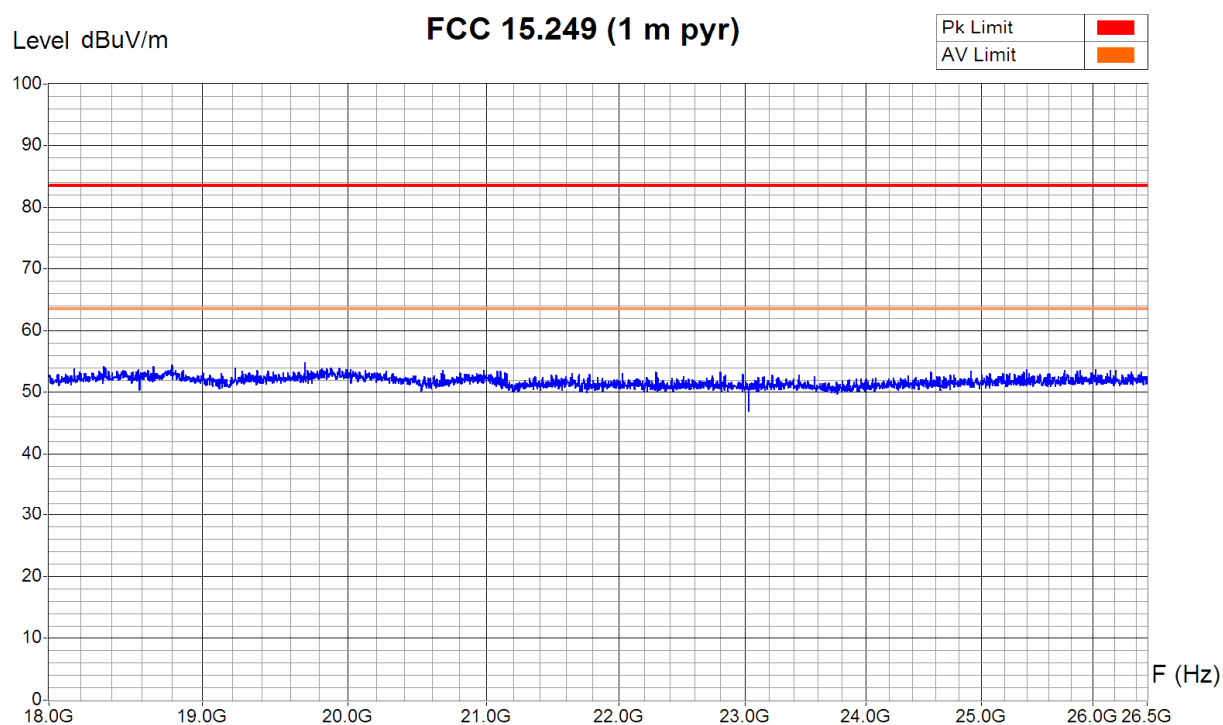
Zone	18 GHz - 19.70 GHz	19.70 GHz - 21.40	21.40 GHz - 23.10	23.10 GHz - 24.80	24.80 GHz - 26.50
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
Date/Time: 13.03.2009 14:31
Filename:
d_fcc249_26G_01.png/.txt

Measurement Type : Radiated Field
 Polarisation : Horizontal
 Table Angle : 0 - 360°
 Antenna Height : 1.5 m



Equipment Under Test : DynaMic
 Set-Up : s. photo, with USB cable
 Operating Conditions : continuous emission 2.4 GHz, mod, Pmax
 Remarks : Mic labelled N



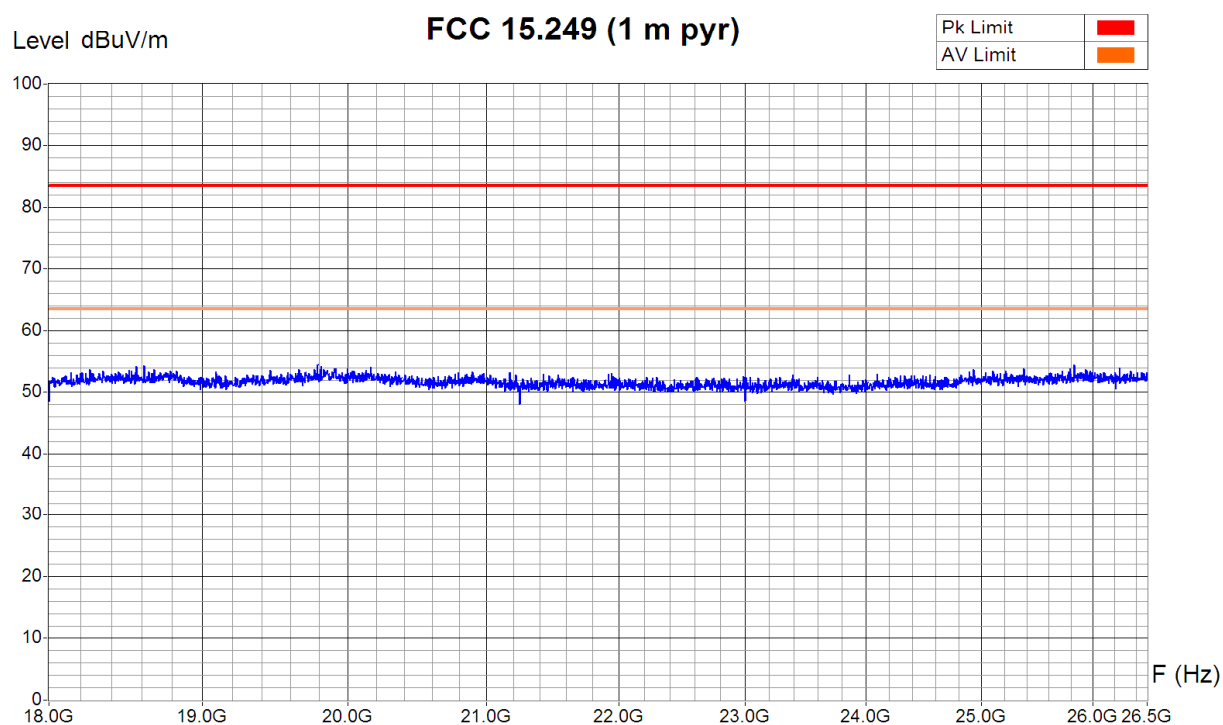
Zone	18 GHz - 19.70 GHz	19.70 GHz - 21.40	21.40 GHz - 23.10	23.10 GHz - 24.80	24.80 GHz - 26.50
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
 Date/Time: 13.03.2009 14:40
 Filename:
 d_fcc249_26G_02.png/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continuous emission 2.48 GHz, mod, Pmax
Remarks : Mic labelled N



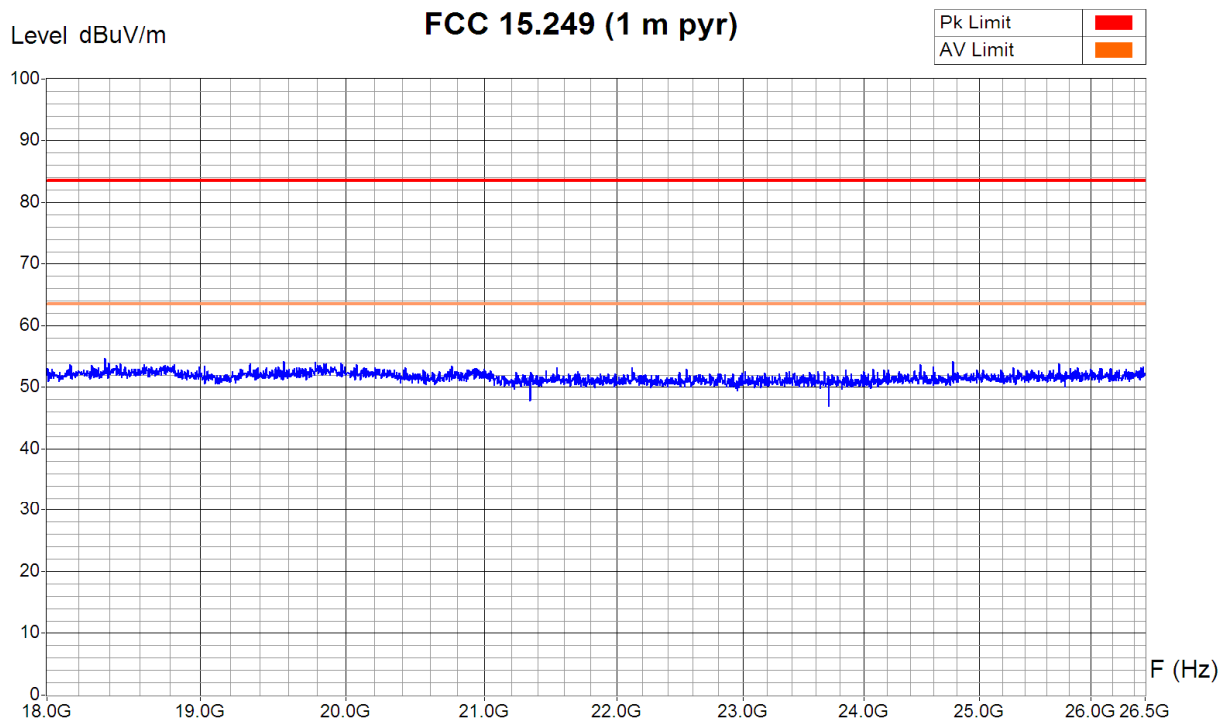
Zone	18 GHz - 19.70 GHz	19.70 GHz - 21.40	21.40 GHz - 23.10	23.10 GHz - 24.80	24.80 GHz - 26.50
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
Date/Time: 13.03.2009 15:00
Filename:
d_fcc249_-2_48G_26G_03.png/
.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0 - 360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : continuous emission 2.48 GHz, mod, Pmax
Remarks : Mic labelled N



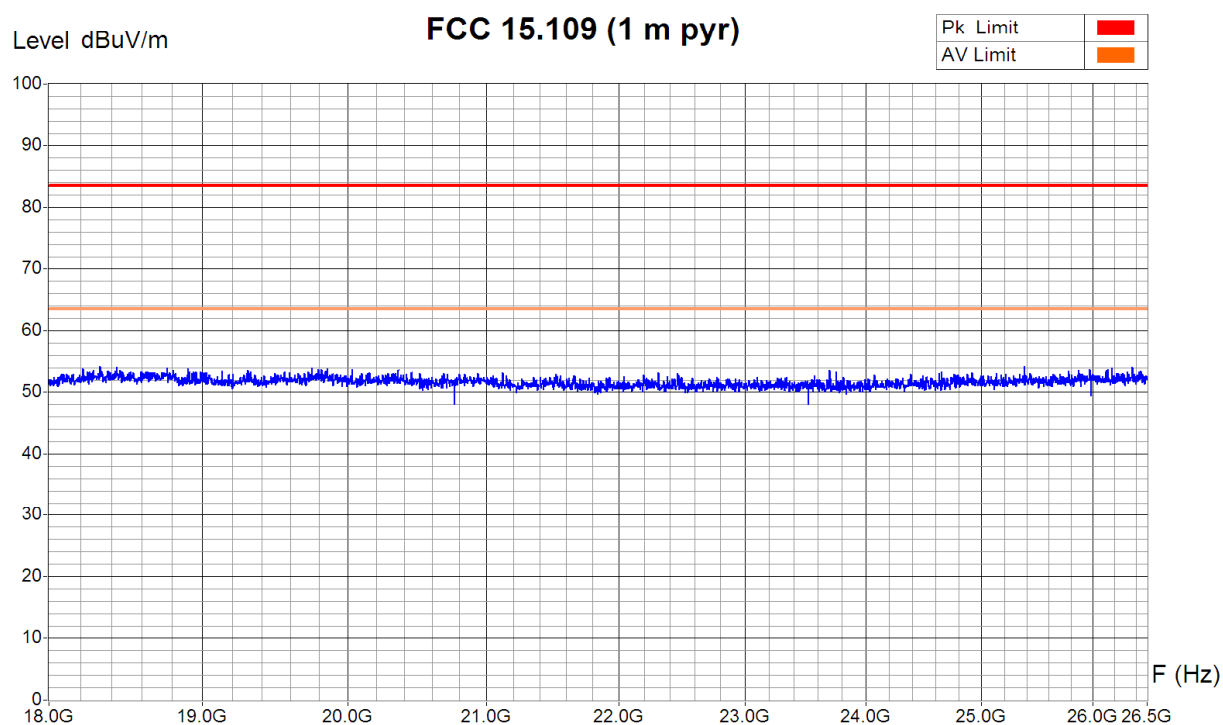
Zone	18 GHz - 19.70 GHz	19.70 GHz - 21.40	21.40 GHz - 23.10	23.10 GHz - 24.80	24.80 GHz - 26.50
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
Date/Time: 13.03.2009 14:54
Filename:
d_fcc249_-2_48G_26G_04.png/
.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : receive mode 2.4 GHz
Remarks : Mic labelled N



Zone	18 GHz - 19.70 GHz	19.70 GHz - 21.40	21.40 GHz - 23.10	23.10 GHz - 24.80	24.80 GHz - 26.50
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
Date/Time: 20.03.2009 15:07
Filename:
g_Dyna_FCC109_2_4GHz_26G_
01.png/.txt

Measurement Type : Radiated Field

Polarisation : Horizontal

Table Angle : 0 - 360°

Antenna Height : 1.5 m

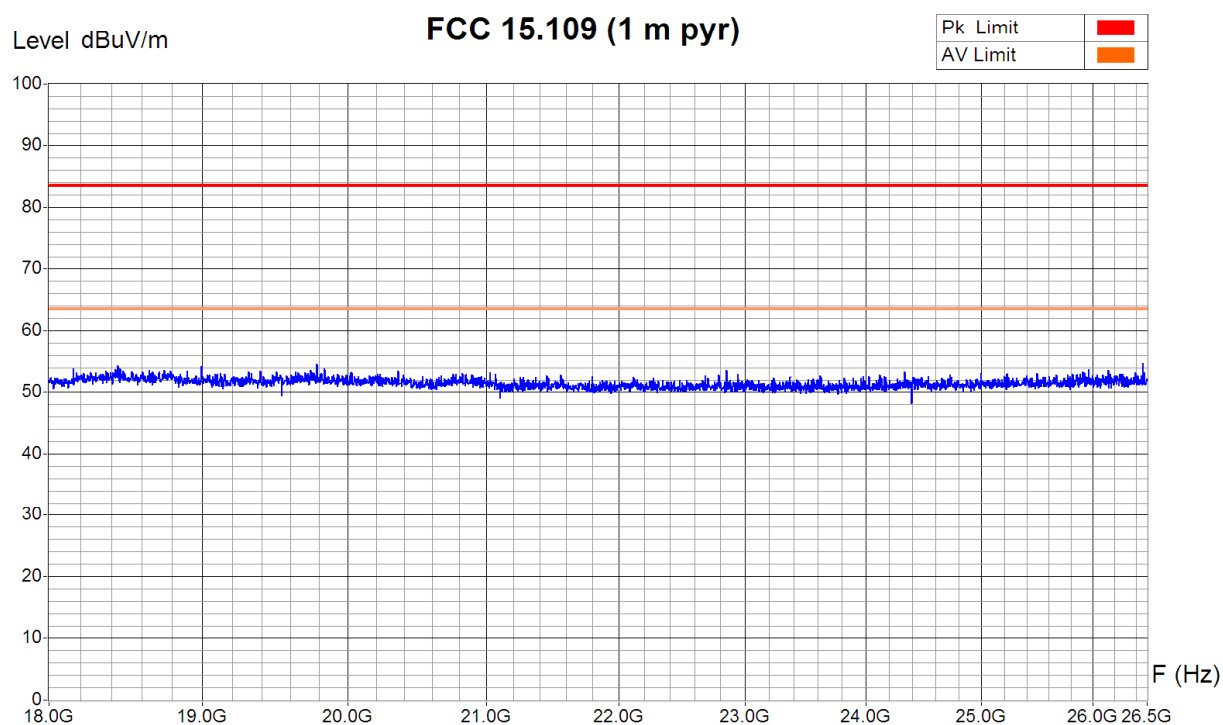


Equipment Under Test : DynaMic

Set-Up : s. photo, with USB cable

Operating Conditions : receive mode 2.4 GHz

Remarks : Mic labelled N



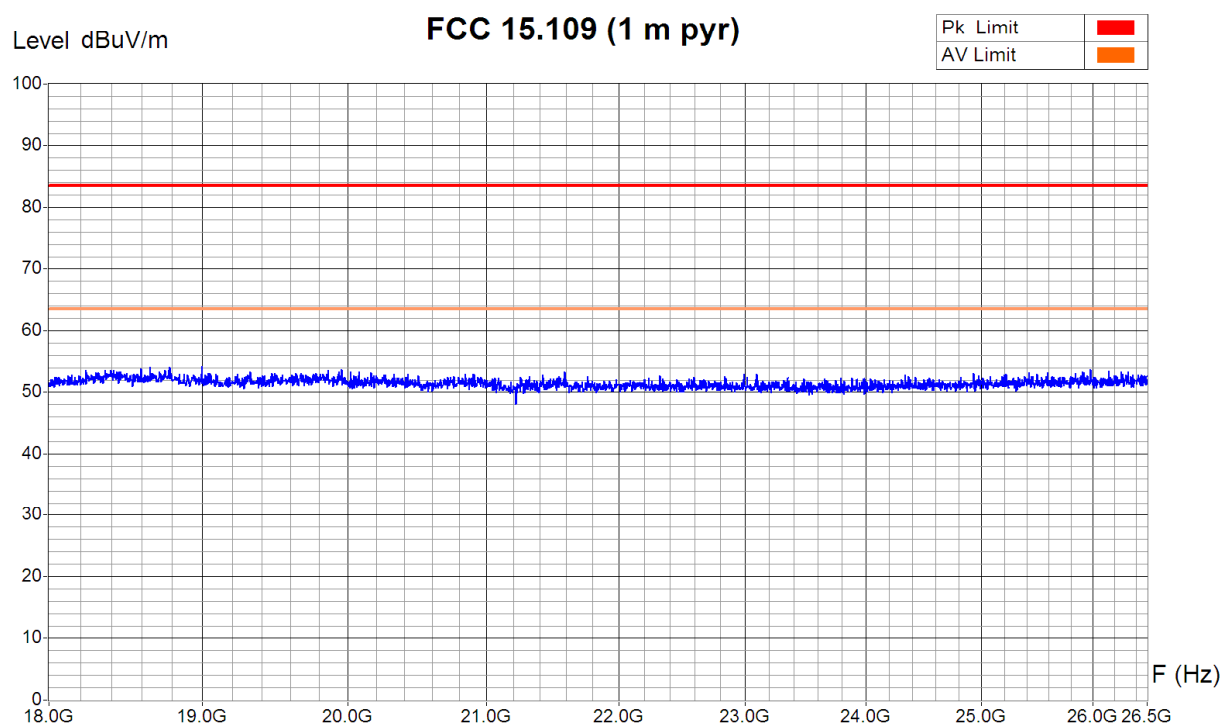
Zone	18 GHz - 19.70 GHz	19.70 GHz - 21.40	21.40 GHz - 23.10	23.10 GHz - 24.80	24.80 GHz - 26.50
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
Date/Time: 20.03.2009 15:15
Filename:
g_Dyna_FCC109_2_4GHz_26G_
02.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0 - 360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : receive mode 2.48 GHz
Remarks : Mic labelled N



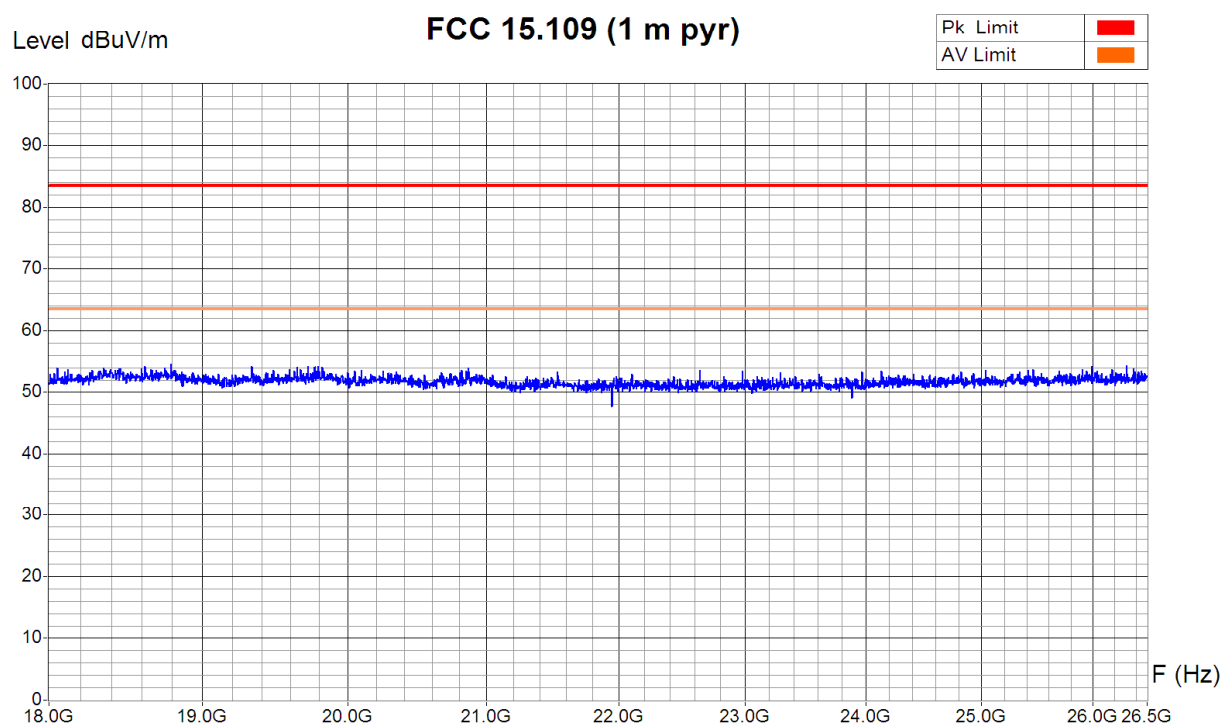
Zone	18 GHz - 19.70 GHz	19.70 GHz - 21.40	21.40 GHz - 23.10	23.10 GHz - 24.80	24.80 GHz - 26.50
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
Date/Time: 20.03.2009 15:27
Filename:
g_Dyna_FCC109_2_48GHz_26G
_03.png/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1.5 m



Equipment Under Test : DynaMic
Set-Up : s. photo, with USB cable
Operating Conditions : receive mode 2.48 GHz
Remarks : Mic labelled N



Zone	18 GHz - 19.70 GHz	19.70 GHz - 21.40	21.40 GHz - 23.10	23.10 GHz - 24.80	24.80 GHz - 26.50
Video Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz
Resol Bandwidth	100 KHz	100 KHz	100 KHz	100 KHz	100 KHz

Operator: Ding
Date/Time: 20.03.2009 15:33
Filename:
g_Dyna_FCC109_2_48GHz_26G
_04.png/.txt

7. Prospectus of the product / Prospectus du produit / Produktprospekt

Specifications :
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PHONAK life is on	Nr.: Version: V 2.0	Product Specification Uranus
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Product Specification: Uranus

Owner:	Approving Authority:	Releasing Authority:
Christoph Schmid	Rainer Platz, Markus Buehl	Evert Dijkstra



Version History

Version	Description of Change	Author	Approved by:	Date:
0.1	Draft	ChS		
0.2	Update upon discussion with technical team	ChS		06.11.2008
0.3	Update after discussion with product managers	ChS		21.11.2008
1.0	Introduction of article numbers for final product	ChS		28.11.2008
2.0	Version for signature	ChS		02.12.2008