

**montena**

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Registration number
 Numéro d'accréditation
 Akkreditierungsnummer

STS 024

Schweizerischer Prüfstellendienst
 Service suisse d'essai
 Swiss testing service



Date of test: Date de l'essai: Prüfdatum:	December 19, 2002 and July 1 to 2, 2003	Report no: Rapport no: Bericht Nr:	Draft	Mandate no: Mandat no: Auftrag Nr:	20025229
Report: Rapport: Bericht:	Electromagnetic compatibility				
Product name: Nom du produit: Produktname	Mobile Cordless Headset - Headset				
Customer: Client: Kunde:	Logitech	Serial no: No de série: Seriennummer:	Final pre-production sample		

Standards / Normes / Normen	Result Résultat Ergebnis
CFR 47, Part 15, Subpart C, Intentional radiator, Paragraph 15.249	Pass

Test performed by
 Essai effectué par :
 Prüfer

Erich Staub

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

Erich Staub

Test report controlled and approved by
 Rapport d'essai contrôlé et approuvé par :
 Prüfbescheinigung

Bertrand Daout

.....

.....

Rossens, (Issue Date / Date d'édition / Ausstelldatum)

V0309

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

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

✓ Pass / Réussi / Bestanden

✗ Fail / Echoué / Nicht bestanden

∅ 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	Standard /Norme /Norm	Result / Résultat / Ergebnis
Emission / Emission / Störaussendung		Transmit mode
Mains terminal interference voltage Tension perturbatrice aux bornes d'alimentation Störspannung auf den Energieversorgungsleitungen	CFR 47 § 15.207	∅ ¹
Carrier measurement Mesure de la porteuse Trägerfrequenzmessung	CFR 47 § 15.249(a)	✓
Radiated electromagnetic field Champ perturbateur Störfeldstärke	CFR 47 § 15.249(d) § 15.209	✓
Emission / Emission / Störaussendung		Receive mode
Mains terminal interference voltage Tension perturbatrice aux bornes d'alimentation Störspannung auf den Energieversorgungsleitungen	CFR 47 § 15.107	∅ ¹
Radiated electromagnetic field Champ perturbateur Störfeldstärke	CFR 47 § 15.109	✓

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

2. Applied standards / Normes appliquées / Verwendete Normen

CFR 47 Part 15 Subpart C	Code of Federal Regulations - Telecommunication, FCC Part 15, Subpart C: "Intentional Radiators"
CFR 47 Part 15 Subpart B	Code of Federal Regulations - Telecommunication, FCC Part 15, Subpart B: "Unintentional Radiators"

3. Client / Client / Kunde

Client name and address Nom et adresse du client Name und Adresse des Kunden	<i>Logitech 1499 SE Tech Center Place Vancouver, WA 98683-9575</i>
Contact Person / Responsable / Kontaktperson	<i>Mark C. Ohnstad</i>
e-mail / courrier électronique / e-mail	<i>Mark_ohnstad@logitech.com</i>
Mandate no / Mandat no / Auftrag Nr.	<i>20025229</i>

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	<i>Logitech 1499 SE Tech Center Place Vancouver, WA 98683-9575</i>
Production country / Pays de fabrication / Ursprungsland	<i>China</i>
Brand name / nom de marque / Verkaufsmarke	<i>Logitech</i>
Product name / Nom du produit / Produktname	<i>Mobile Cordless Headset - Headset</i>
Product description / Description du produit / Produktbeschreibung	<i>Cordless Headset for mobile phones</i>
Model number / Numéro de modèle / Modellnummer	<i>Headset (Earpiece)</i>
Serial no / No. de série / Seriennummer	<i>Final pre-production sample</i>
Software version / Version du logiciel / Softwareversion	<i>Revision 1.1</i>
Highest frequency / Fréquence la plus élevée / Höchste Frequenz	<i>921.7 MHz</i>
Supply / Alimentation / Speisung	<i>Li-Ion battery 4.2V, 100mAh</i>

4.2 Connected cables / Câble connectés / Angeschlossene Kabel

<i>none</i>

4.3 Modifications before the tests / Modifications apportées avant les essais / Vor den Prüfungen angebrachte Änderungen

none

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

Equipment under test / Equipment sous test / Prüfling



Equipment under test / Equipment sous test / Prüfling

4.5 Classification / Classification / Klassierung

- | |
|--|
| <ul style="list-style-type: none"> Intentional radiator |
|--|

5. Test conditions / Conditions d'essai / Testbedingungen**5.1 Climatic conditions / conditions climatiques / klimatologische Bedingungen**

Temperature / Température / Temperatur:	20 - 25	°C
Pressure / Pression / Druck:	1001 - 1012	hPa
Relative humidity / Humidité relative / Relative Luftfeuchtigkeit:	36 - 45	%

5.2 Location and Date / Lieu et date / Ort und Datum

Test period / Date des essais / Datum der Prüfungen:	<i>December 19, 2002 and July 1 to 2, 2003</i>
Location / Lieu / Ort:	<i>Rossens</i>

5.3 Persons present / Personnes présentes / Anwesende Personen**Test Engineer(s) / Ingénieur(s) d'essai / Prüflingenieur(e) :***Erich Staub***Other(s) / Autre(s) / Andere :**

Name / Nom / Name	Company / Société / Firma
<i>Roger Meier</i>	<i>Shockfish SA</i>

5.4 Test configuration / Configuration d'essai / Prüfkonfiguration**5.5 Operating conditions / Conditions de fonctionnement / Betriebszustand**

Normal mode of operation, modulated transmitter at lowest and highest operating frequencies.
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5.6 Auxillary 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 indispensable 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 number	ID	Remark / Remarque / Bemerkung
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6. Emission Test Transmitter

6.1 Carrier measurement

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

Distance: ☐ 30 m ☐ 10 m ☒ 3 m ☐

Position of EUT: 0.8 m (height of the equipment under test above floor)

Test precision: ± 6 dB (30 - 300 MHz) / ± 5.4 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 disturbance appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding the limits are remeasured manually giving quasi-peak values and average values using a receiver and these measurements are indicated under the graph. The limit must be respected in quasi-peak values (QP).

Test set-up:



Remarks:

- Maximum field strength measured from 1 to 3 m.
- During this measurement the resolution bandwidth was 120 kHz and the video bandwidth 100 kHz. The theoretical error for broad band signals will be smaller than 0.8 dB. For narrow band signals the level does not change.
- EUT measured in position which showed the highest emission on the first prototype

Test equipment:

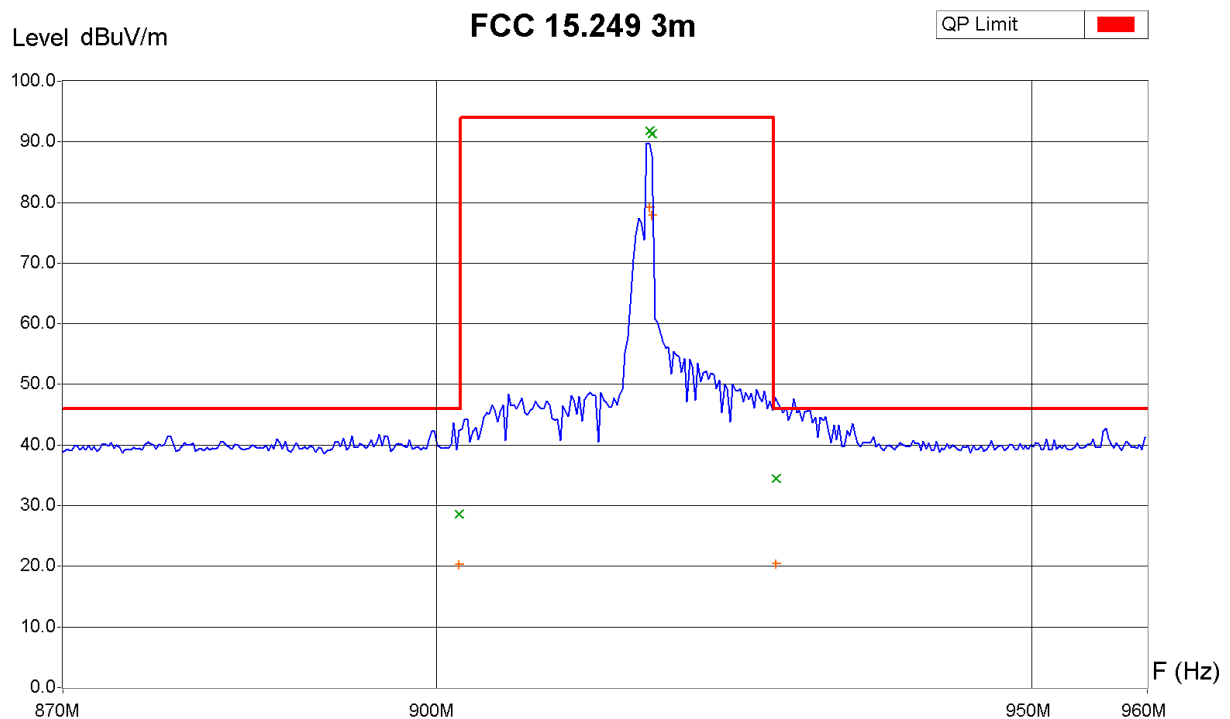
☒ Spectrum analyser	☒ 88-14	☐ 90-26	☐ 94-24		
☒ Receiver	☐ 85-04	☒ 90-43	☐ 94-35		
☒ Preamplifier	☐ 88-05	☐ 90-01	☐ 90-42	☒ 95-86	☐ 92-39
☐ Antenna (biconical)	☐ 82-02	☐ 87-05	☐ 87-16	☐ 91-05	☐ 94-37
☒ Antenna (log-per)	☐ 88-20	☐ 90-30	☐ 91-35	☒ 94-64	
☒ Attenuators					

Result:	☒ pass	☐ fail	☐ not applicable	☐ not tested
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Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0 - 360°
Antenna Height : 1 - 3m



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 917.7 MHz
P3 = EUT side



Zone	870 MHz - 960 MHz
Video Bandwidth	300 KHz
Resol Bandwidth	120 KHz
Sweep Time	0 s

Receiver Measures

Frequency	Peak	QuasiPeak (x)	Average (+)	QP Margin
901.85 MHz	43.0 dBuV/m	28.6 dBuV/m	20.3 dBuV/m	17.4 dB
917.60 MHz	91.5 dBuV/m	91.9 dBuV/m	79.2 dBuV/m	2.1 dB
917.80 MHz	90.9 dBuV/m	91.3 dBuV/m	77.9 dBuV/m	2.7 dB
928.20 MHz	48.6 dBuV/m	34.4 dBuV/m	20.4 dBuV/m	11.6 dB

Operator: E. Staub
Date/Time 02.07.03 16:15
Filename:
20025229_LCh_Headset_000hP3.
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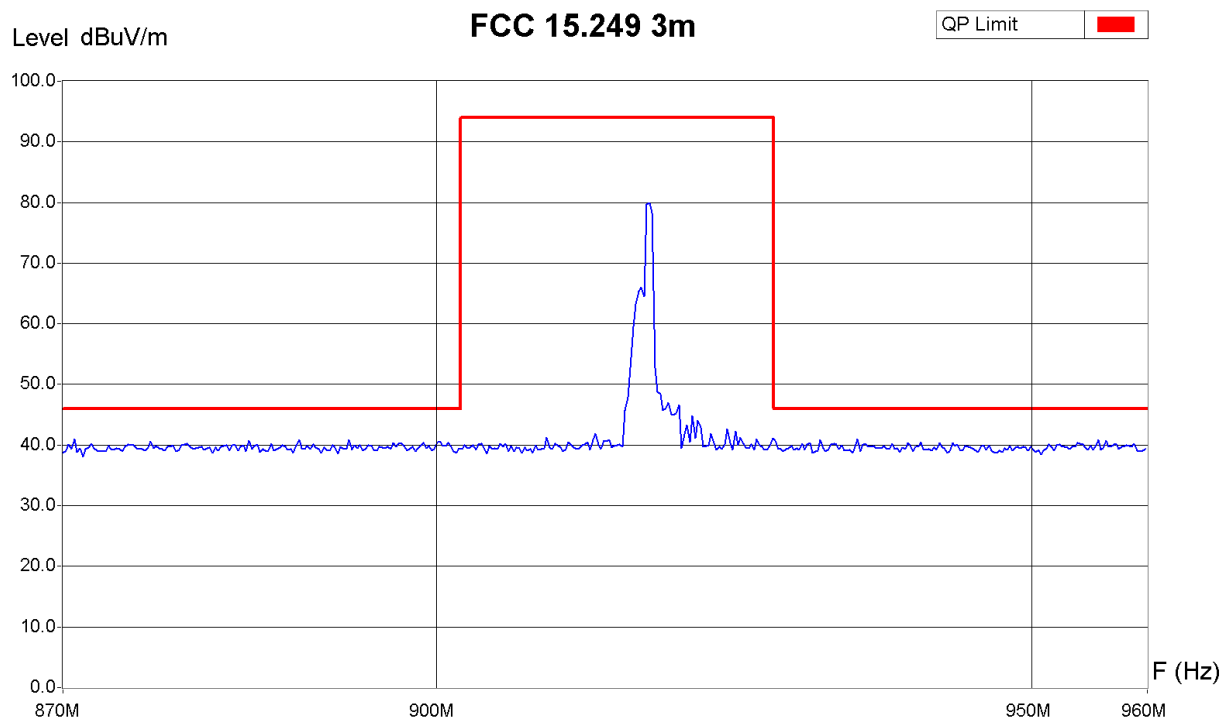
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [MHz]	Pk-value [dBµV/m]	Delta [dB]
878.30	41.4	4.6
878.53	41.5	4.5
887.06	41.0	5.0
892.44	41.1	4.9
893.12	41.5	4.5
895.36	41.8	4.2
895.81	41.6	4.4
896.03	41.4	4.6
899.63	42.2	3.8
899.85	42.4	3.6
901.42	43.6	2.4
901.87	42.3	3.7
917.36	89.8	4.2
917.58	89.7	4.3
928.13	47.9	-1.9
928.35	46.8	-0.8
928.58	46.1	-0.1
928.80	45.4	0.6
929.03	46.2	-0.2
929.25	44.1	1.9
929.48	45.5	0.5
929.70	47.6	-1.6
929.93	45.3	0.7
930.15	45.7	0.3
930.37	43.9	2.1
930.60	45.5	0.5
930.82	45.6	0.4
931.05	45.8	0.2
931.27	43.6	2.4
931.50	44.6	1.4
931.72	41.2	4.8
931.95	44.6	1.4
932.17	44.1	1.9
932.39	44.7	1.3
932.62	42.2	3.8
933.07	43.3	2.7
933.52	43.3	2.7
934.19	42.4	3.6
934.41	41.5	4.5
934.64	43.5	2.5
934.86	41.7	4.3
936.43	41.3	4.7
951.25	41.0	5.0
956.18	42.3	3.7
956.41	42.8	3.2
956.63	41.2	4.8
959.78	41.2	4.8

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1 - 3m



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 917.7 MHz
P3 = EUT side



Zone	870 MHz - 960 MHz
Video Bandwidth	300 KHz
Resol Bandwidth	120 KHz
Sweep Time	0 s

Operator: E. Staub
Date/Time: 02.07.03 16:26
Filename:
20025229_LCh_Headset_000vP3.
png/.txt

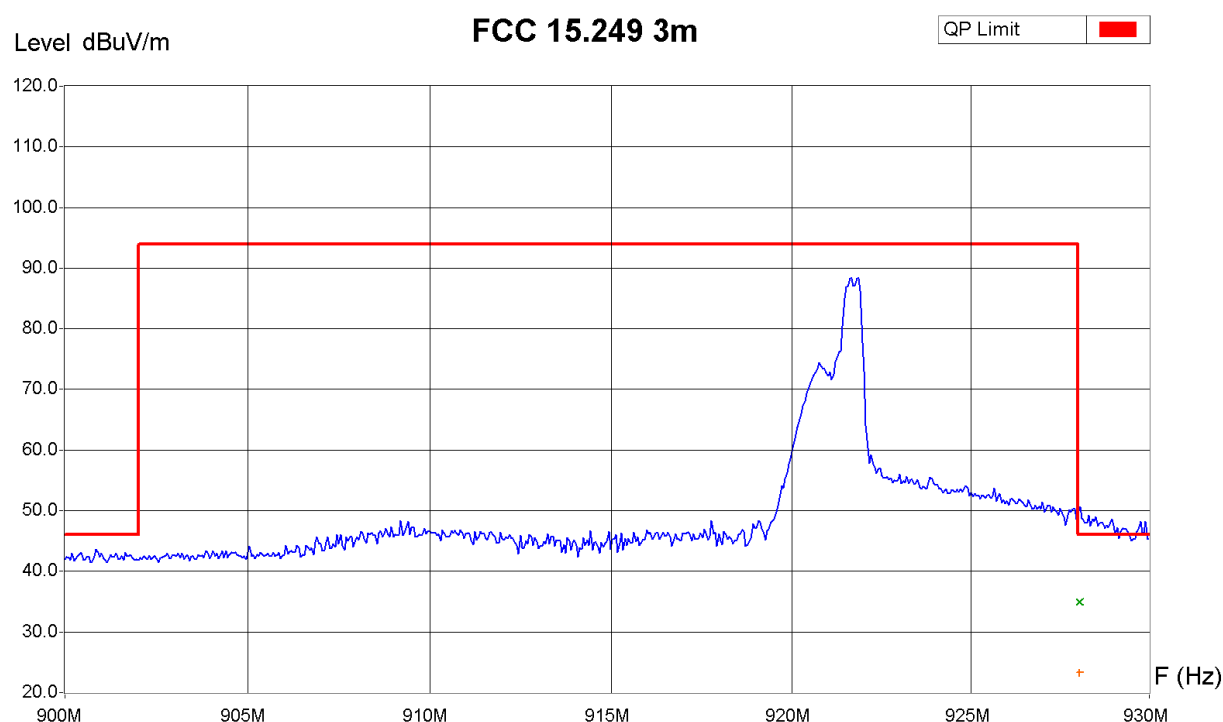
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [MHz]	Pk-value [dBμV/m]	Delta [dB]
870.90	41.0	5.0

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0 - 360°
Antenna Height : 1 - 3m



Equipment Under Test : Headset 1202 US: Highest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 921.7 MHz



Zone	900 MHz - 930 MHz
Video Bandwidth	100 KHz
Resol Bandwidth	120 KHz
Sweep Time	0 s

Receiver Measures

Frequency	Peak	QuasiPeak (x)	Average (+)	QP Margin
928.03 MHz	50.9 dBuV/m	34.9 dBuV/m	23.3 dBuV/m	11.1 dB

Operator: E. Staub
Date/Time: 19.12.02 12:51
Filename: 20025229_HCh_Headset_001h.png/.txt

Table of measured Pk-values with any points within 5 dB of the limit of previous plot

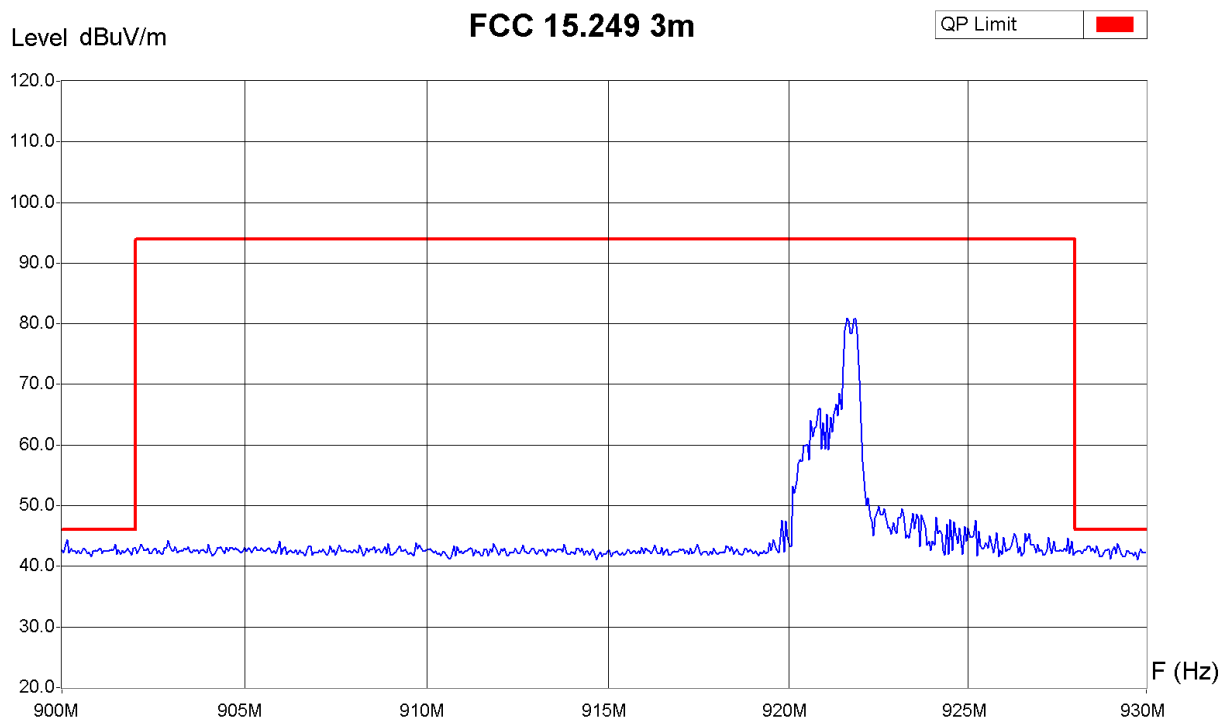
Frequency [MHz]	Pk-value [dBµV/m]	Delta [dB]
900.00	42.0	4.0
900.05	42.3	3.7
900.10	42.2	3.8
900.15	41.8	4.2
900.20	43.0	3.0
900.25	41.7	4.3
900.30	42.2	3.8
900.35	42.7	3.3
900.40	42.8	3.2
900.45	43.1	2.9
900.50	41.8	4.2
900.55	41.8	4.2
900.60	42.3	3.7
900.65	42.5	3.5
900.70	41.5	4.5
900.75	41.6	4.4
900.80	42.5	3.5
900.85	43.6	2.4
900.90	43.1	2.9
900.95	42.3	3.7
901.00	43.0	3.0
901.05	42.1	3.9
901.10	41.8	4.2
901.15	41.5	4.5
901.20	42.1	3.9
901.25	42.8	3.2
901.30	42.3	3.7
901.35	42.5	3.5
901.40	43.0	3.0
901.45	42.0	4.0
901.50	42.1	3.9
901.55	42.5	3.5
901.60	41.8	4.2
901.65	43.1	2.9
901.70	42.5	3.5
901.75	42.6	3.4
901.80	42.8	3.2
901.85	42.3	3.7
901.90	41.8	4.2
901.95	41.9	4.1
902.00	41.8	4.2
928.00	49.6	-3.6
928.05	50.6	-4.6
928.10	48.8	-2.8
928.15	48.4	-2.4
928.20	47.9	-1.9
928.25	47.9	-1.9
928.30	49.3	-3.3
928.35	47.4	-1.4
928.40	48.6	-2.6

928.45	48.3	-2.3
928.50	48.9	-2.9
928.55	47.4	-1.4
928.60	47.9	-1.9
928.65	47.9	-1.9
928.70	47.9	-1.9
928.75	47.1	-1.1
928.80	47.6	-1.6
928.85	47.3	-1.3
928.90	48.1	-2.1
928.95	48.6	-2.6
929.00	47.6	-1.6
929.05	46.1	-0.1
929.10	47.3	-1.3
929.15	45.4	0.6
929.20	46.6	-0.6
929.25	47.1	-1.1
929.30	46.9	-0.9
929.35	46.9	-0.9
929.40	46.4	-0.4
929.45	45.8	0.2
929.50	45.1	0.9
929.55	45.3	0.7
929.60	45.4	0.6
929.65	46.6	-0.6
929.70	46.9	-0.9
929.75	48.3	-2.3
929.80	46.3	-0.3
929.85	46.2	-0.2
929.90	48.2	-2.2
929.95	45.2	0.8

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1 - 3m



Equipment Under Test : Headset 1202 US: Highest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 921.7 MHz



Zone	900 MHz - 930 MHz
Video Bandwidth	100 KHz
Resol Bandwidth	120 KHz
Sweep Time	0 s

Operator: E. Staub
Date/Time: 19.12.02 12:46
Filename:
20025229_HCh_Headset_001v.pn
g/.txt

Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [MHz]	Pk-value [dBµV/m]	Delta [dB]
900.00	42.7	3.3
900.05	42.2	3.8
900.10	43.7	2.3
900.15	44.3	1.7
900.20	42.2	3.8
900.25	42.8	3.2
900.30	42.5	3.5
900.35	42.5	3.5
900.40	42.1	3.9
900.45	42.6	3.4
900.50	42.1	3.9
900.55	42.5	3.5
900.60	43.0	3.0
900.65	42.6	3.4
900.70	42.1	3.9
900.75	42.3	3.7
900.80	41.6	4.4
900.85	42.5	3.5
900.90	42.6	3.4
900.95	42.5	3.5
901.00	42.8	3.2
901.05	43.0	3.0
901.10	42.1	3.9
901.15	42.6	3.4
901.20	42.5	3.5
901.25	42.5	3.5
901.30	42.6	3.4
901.35	42.8	3.2
901.40	42.6	3.4
901.45	43.6	2.4
901.50	42.0	4.0
901.55	42.8	3.2
901.60	42.0	4.0
901.65	42.6	3.4
901.70	42.3	3.7
901.75	42.6	3.4
901.80	43.0	3.0
901.85	42.5	3.5
901.90	41.8	4.2
901.95	42.9	3.1
902.00	42.9	3.1
928.00	42.3	3.7
928.05	42.4	3.6
928.10	42.4	3.6
928.15	42.4	3.6
928.20	42.1	3.9
928.25	42.8	3.2
928.30	42.6	3.4
928.35	43.3	2.7
928.40	43.4	2.6

928.45	42.4	3.6
928.50	42.9	3.1
928.55	42.3	3.7
928.60	43.4	2.6
928.65	42.6	3.4
928.70	41.6	4.4
928.75	41.6	4.4
928.80	42.3	3.7
928.85	42.6	3.4
928.90	42.8	3.2
928.95	42.8	3.2
929.00	41.3	4.7
929.05	42.4	3.6
929.10	43.3	2.7
929.15	42.1	3.9
929.20	43.8	2.2
929.25	42.8	3.2
929.30	41.9	4.1
929.35	41.6	4.4
929.40	41.8	4.2
929.45	42.6	3.4
929.50	42.4	3.6
929.55	42.1	3.9
929.60	42.1	3.9
929.65	41.8	4.2
929.70	42.4	3.6
929.75	41.1	4.9
929.80	42.3	3.7
929.85	42.9	3.1
929.90	42.2	3.8
929.95	42.2	3.8

6.2 Radiated electromagnetic field 30 - 1000 MHz

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

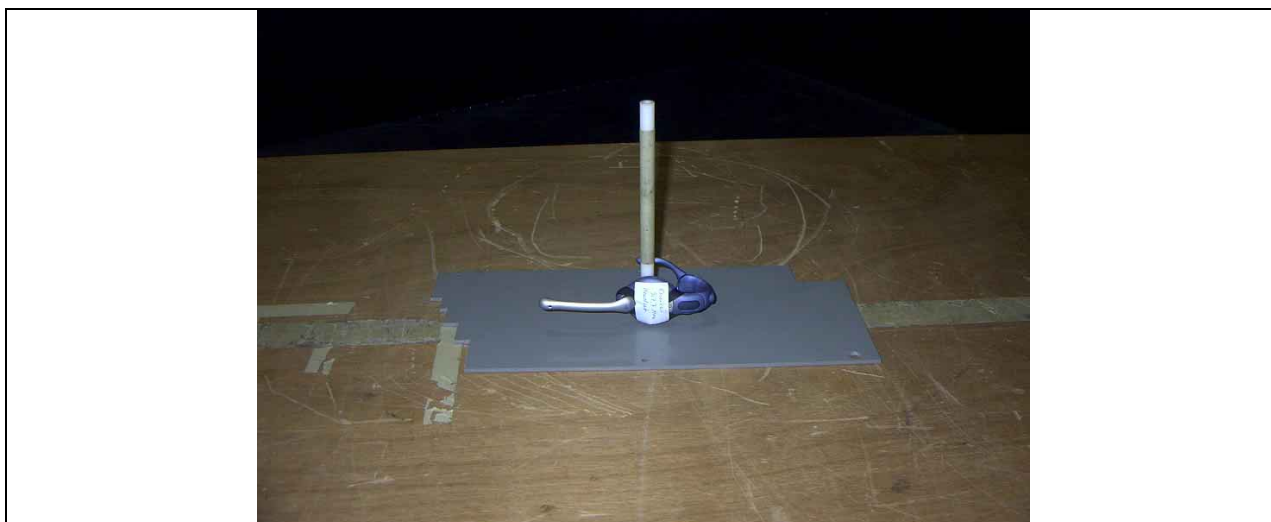
Distance: ☐ 30 m ☐ 10 m ☒ 3 m ☐

Position of EUT: 0.8 m (height of the equipment under test above floor)

Test precision: ± 6 dB (30 - 300 MHz) / ± 5.4 dB (300 - 1000 MHz)

Test method: The electromagnetic disturbance radiated by the equipment is measured from 30 to 1000 MHz 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 disturbance appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding the limits are remeasured manually giving quasi-peak values and average values using a receiver and these measurements are indicated under the graph. The limit must be respected in quasi-peak values (QP).

Test set-up:



Remarks:

- Maximum field strength measured from 1 to 3 m.
- EUT measured in position which showed the highest emission on the first prototype
- With notch filter at transmitting frequency, for values around carrier see §6.1

Test equipment:

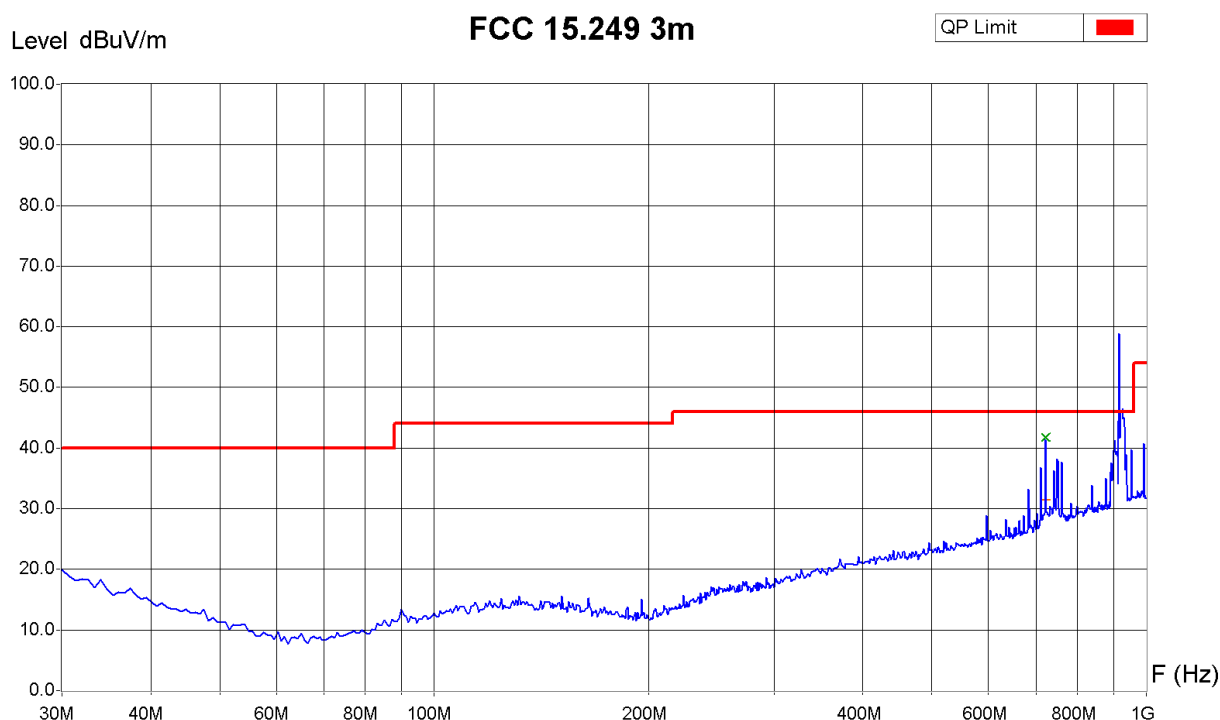
☒ Spectrum analyser	☒ 88-14	☐ 90-26	☐ 94-24		
☒ Receiver	☐ 85-04	☒ 90-43	☐ 94-35		
☒ Preamplifier	☐ 88-05	☐ 90-01	☐ 90-42	☒ 95-86	☐ 92-39
☒ Antenna (biconical)	☐ 82-02	☐ 87-05	☐ 87-16	☐ 91-05	☒ 94-37
☒ Antenna (log-per)	☐ 88-20	☐ 90-30	☐ 91-35	☒ 94-64	
☐ Antenna (horn)	☐ 90-24	☐ 90-29	☐ 98-12	☐ 98-13	☐
☒ Notch filter					

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

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0 - 360°
Antenna Height : 1 - 3m



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 917.7 MHz; notch filter
P3 = EUT side



Zone	30 MHz - 300 MHz	300 MHz - 1 GHz
Video Bandwidth	300 KHz	300 KHz
Resol Bandwidth	120 KHz	120 KHz
Sweep Time	0 s	0 s

Receiver Measures

Frequency	Peak	QuasiPeak (x)	Average (+)	QP Margin
722.60 MHz	42.2 dBuV/m	41.7 dBuV/m	31.5 dBuV/m	4.3 dB

Operator: E. Staub
Date/Time: 02.07.03 16:55
Filename:
20025229_LCh_Headset_001hP3.
png/.txt

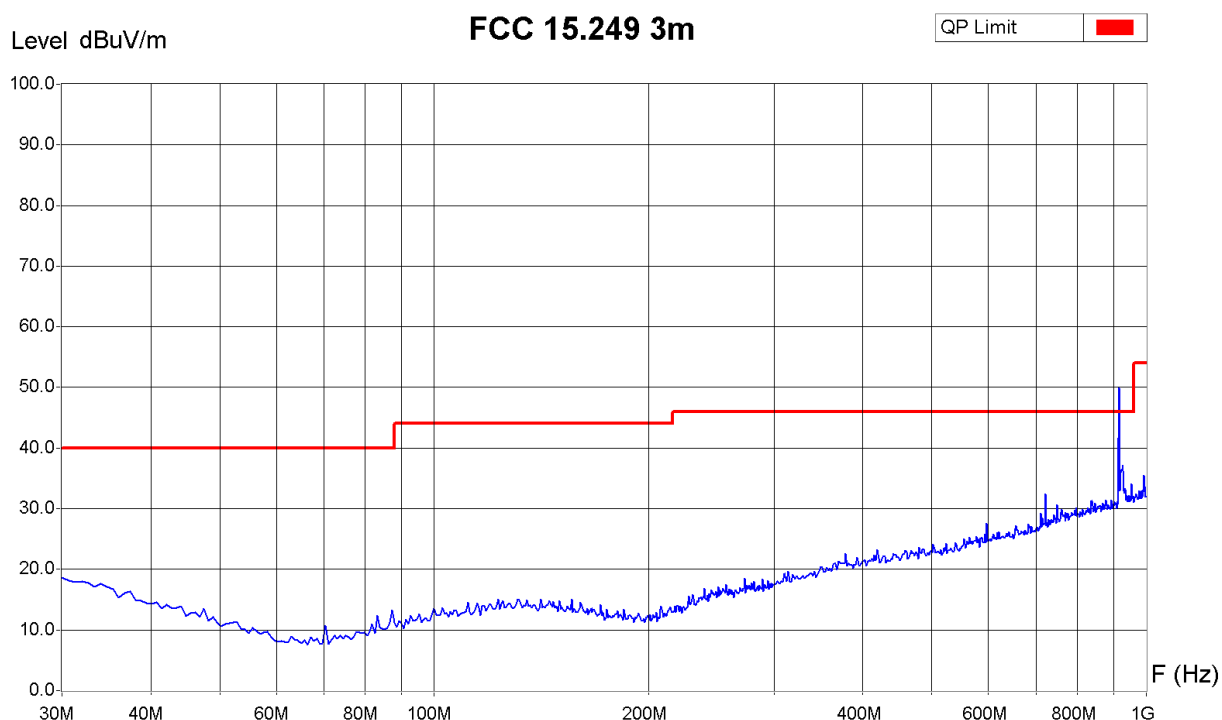
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [MHz]	Pk-value [dBµV/m]	Delta [dB]
722.44	41.4	4.6
903.99	41.2	4.8
914.46	44.4	1.6
916.21	58.9	-12.9
917.96	41.6	4.4
919.70	45.0	1.0
921.45	45.8	0.2
923.19	46.2	-0.2
924.94	46.2	-0.2
926.68	46.5	-0.5
928.43	44.9	1.1
930.17	45.1	0.9
931.92	43.6	2.4
933.67	41.9	4.1

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1 - 3m



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 917.7 MHz; notch filter
P3 = EUT side



Zone	30 MHz - 300 MHz	300 MHz - 1 GHz
Video Bandwidth	300 KHz	300 KHz
Resol Bandwidth	120 KHz	120 KHz
Sweep Time	0 s	0 s

Operator: E. Staub
Date/Time 02.07.03 16:53
Filename:
20025229_LCh_Headset_001vP3.
png/.txt

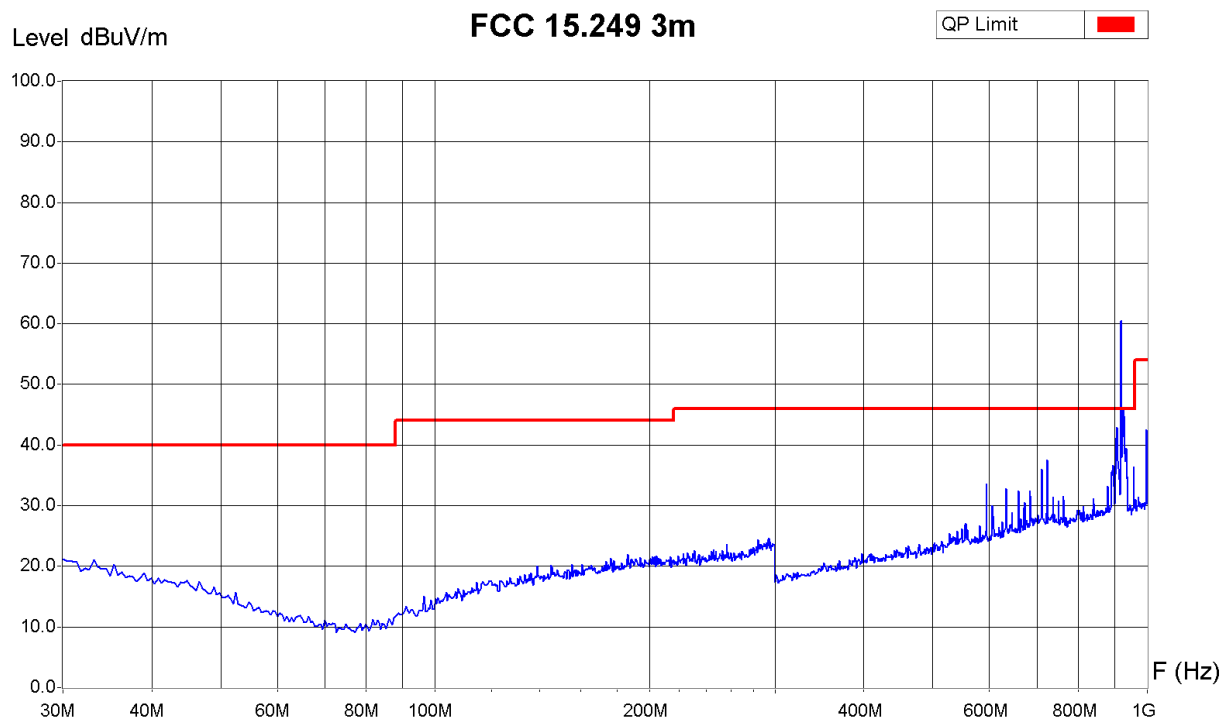
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [MHz]	Pk-value [dBμV/m]	Delta [dB]
914.46	41.6	4.4
916.21	50.0	-4.0

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0 - 360°
Antenna Height : 1 - 3m



Equipment Under Test : Headset 1202 US: Highest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 921.7 MHz



Zone	30 MHz - 300 MHz	300 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	120 KHz	120 KHz
Sweep Time	0 s	0 s

Operator: E. Staub
Date/Time: 19.12.02 11:25
Filename:
20025229_HCh_Headset_000h.p
ng/.txt

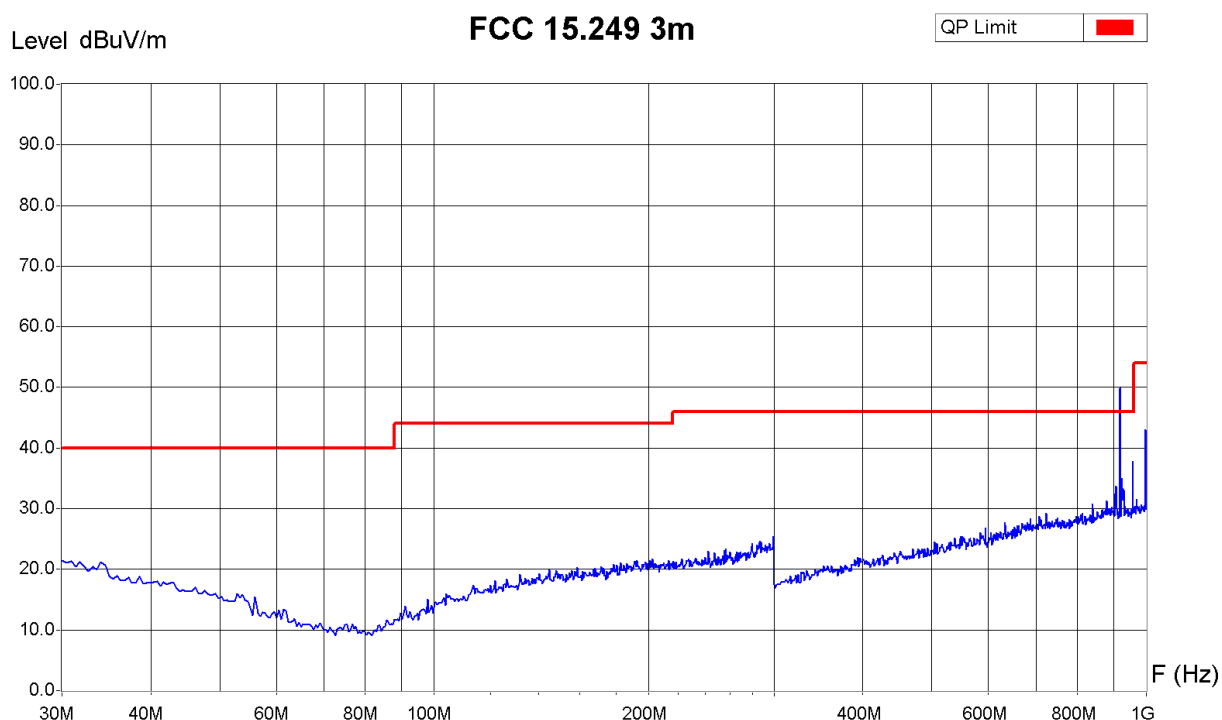
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [MHz]	Pk-value [dBμV/m]	Delta [dB]
904.49	41.1	4.9
907.99	42.9	3.1
917.30	45.3	0.7
918.47	60.4	-14.4
919.63	60.6	-14.6
923.13	45.8	0.2
924.29	42.1	3.9
925.46	41.4	4.6
926.62	46.3	-0.3
927.79	44.8	1.2

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1 - 3m



Equipment Under Test : Headset 1202 US: Highest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 921.7 MHz



Zone	30 MHz - 300 MHz	300 MHz - 1 GHz
Video Bandwidth	100 KHz	100 KHz
Resol Bandwidth	120 KHz	120 KHz
Sweep Time	0 s	0 s

Operator: E. Staub
Date/Time: 19.12.02 11:30
Filename:
20025229_HCh_Headset_000v.pn
g/.txt

Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [MHz]	Pk-value [dBμV/m]	Delta [dB]
918.47	49.9	-3.9
919.63	49.9	-3.9

6.3 Radiated electromagnetic field 1 - 10 GHz

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

Distance: ☐ 30 m ☐ 10 m ☐ 3 m ☒ 1 m

Position of EUT: 0.8 m (height of the equipment under test above floor)

Test precision: ± 6 dB (30 - 300 MHz) / ± 5.4 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 turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbance appearing while the apparatus is under test. The peak values are recorded continuously on the graph.

Test set-up:



Remarks:

- As the noise level of the measuring system was close the the limit, the RBW has been reduced for some frequency ranges. Any emission exceeding the limit would be measured with a receiver with 1 MHz bandwidth
- EUT measured in position which showed the highest emission on the first prototype

Test equipment:

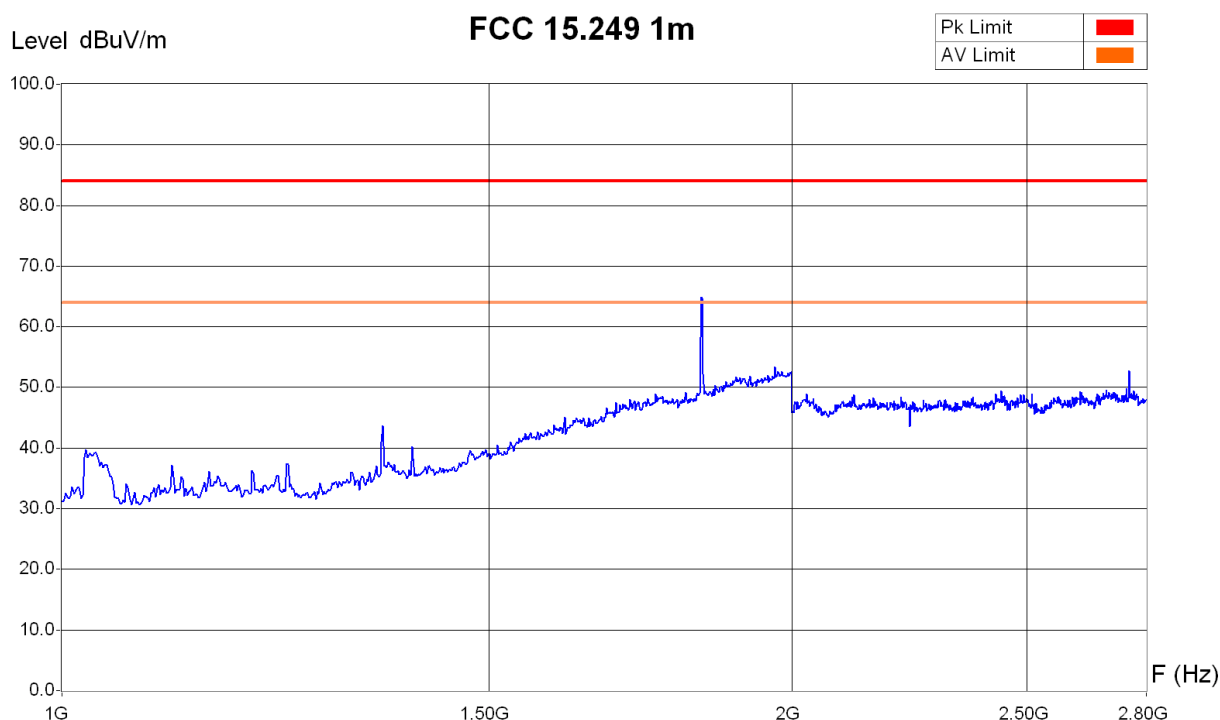
☒ Spectrum analyser	☒ 88-14	☐ 90-26	☐ 94-24		
☒ Receiver	☐ 85-04	☒ 90-43	☐ 94-35		
☒ Preamplifier	☐ 88-05	☐ 90-01	☐ 90-42	☒ 95-86	☒ 92-39
☐ Antenna (biconical)	☐ 82-02	☐ 87-05	☐ 87-16	☐ 91-05	☐ 94-37
☐ Antenna (log-per)	☐ 88-20	☐ 90-30	☐ 91-35	☐ 94-64	
☒ Antenna (horn)	☒ 90-24	☐ 90-29	☐ 98-12	☐ 98-13	☐
☒ Notch and high-pass filter					

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



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 917.7 MHz; notch and high pass filter
P2 = EUT vertical



Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz
Sweep Time	0 s	0 s

Operator: E. Staub
Date/Time 03.07.2003 15:12
Filename:
20025229_LCh_Headset_003hP2.
png/.txt

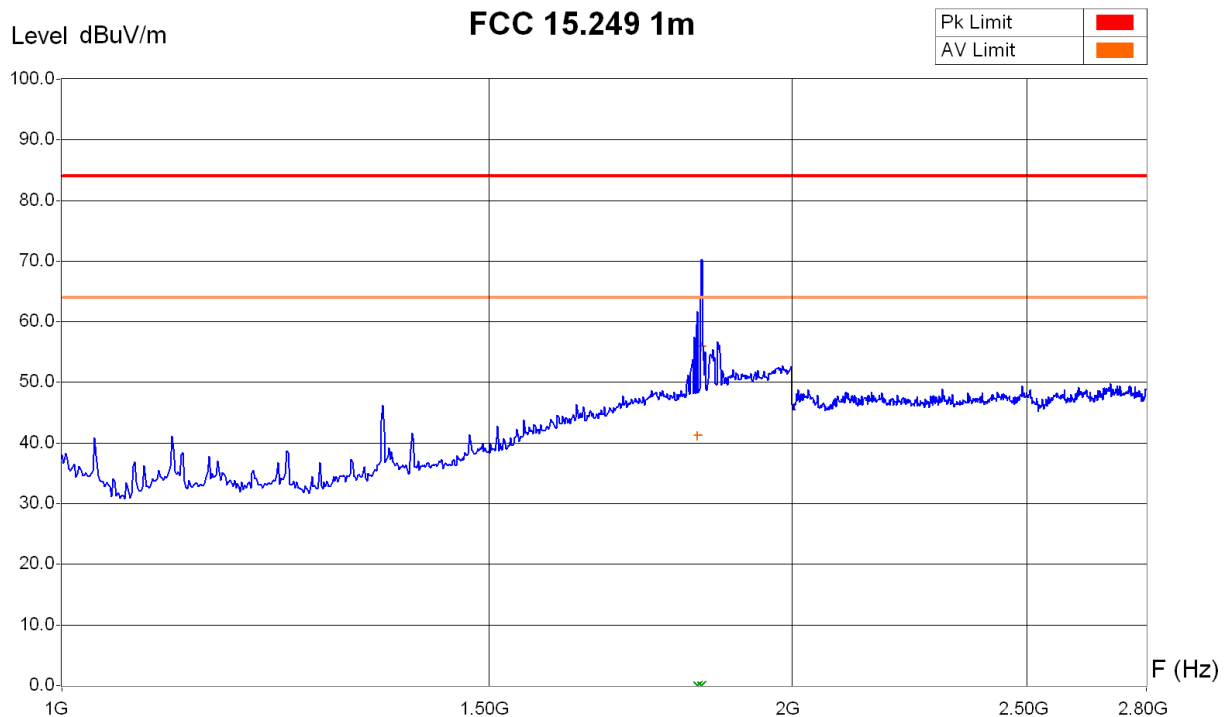
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [GHz]	Pk-value [dBμV/m]	Delta [dB]
1.835	64.9	-0.9
1.837	64.8	-0.8

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



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 917.7 MHz; notch and high pass filter
P2 = EUT vertical



Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz
Sweep Time	0 s	0 s

Receiver Measures

Frequency	Peak	QuasiPeak (x)	Average (+)	QP Margin
1.83 GHz	61.7 dBuV/m	0.0 dBuV/m	41.3 dBuV/m	NaN dB
1.83 GHz	70.3 dBuV/m	0.0 dBuV/m	55.9 dBuV/m	NaN dB

Operator: E. Staub
Date/Time: 03.07.2003 15:13
Filename:
20025229_LCh_Headset_003vP2.
png/.txt

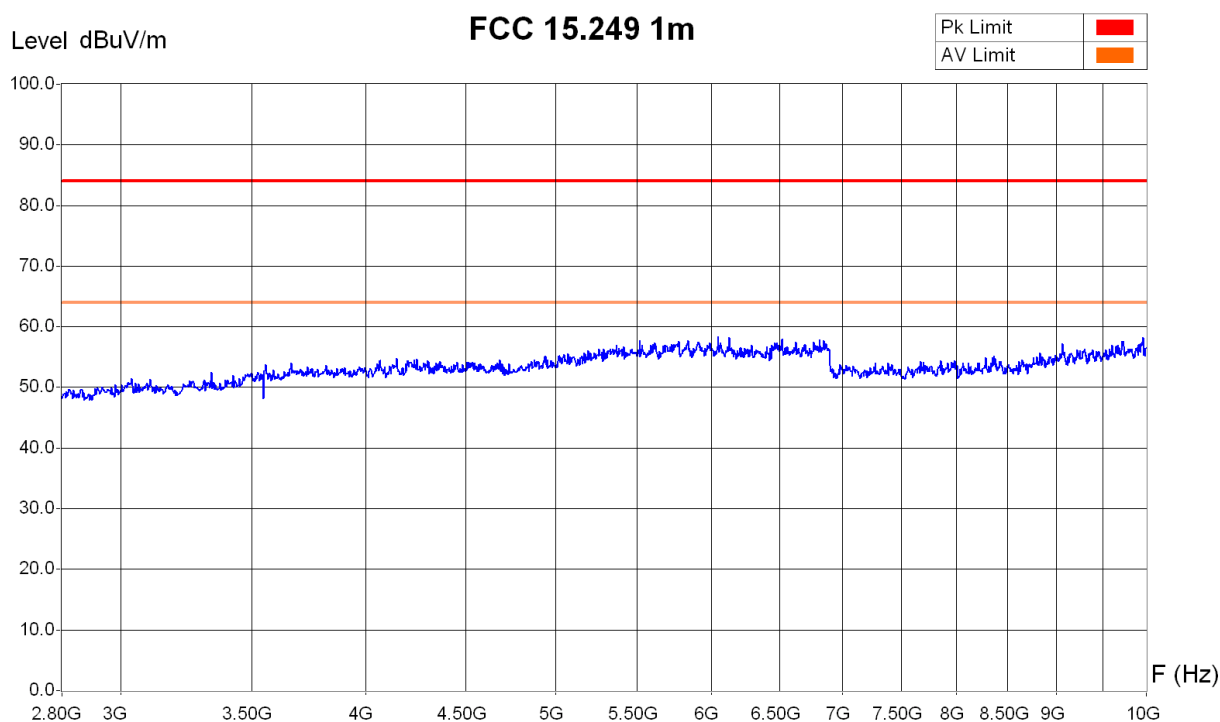
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [GHz]	Pk-value [dBμV/m]	Delta [dB]
1.827	59.5	4.5
1.829	61.7	2.3
1.834	63.8	0.2
1.835	70.3	-6.3
1.837	70.3	-6.3

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



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 917.7 MHz



Zone	2.80 GHz - 4.60	4.60 GHz - 6.90	6.90 GHz - 10 GHz
Video Bandwidth	1 MHz	1 MHz	300 KHz
Resol Bandwidth	1 MHz	1 MHz	300 KHz
Sweep Time	0 s	0 s	0 s

Operator: E. Staub
Date/Time: 19.12.2002 15:22
Filename:
20025229_LCh_Headset_003h.pn
g/.txt

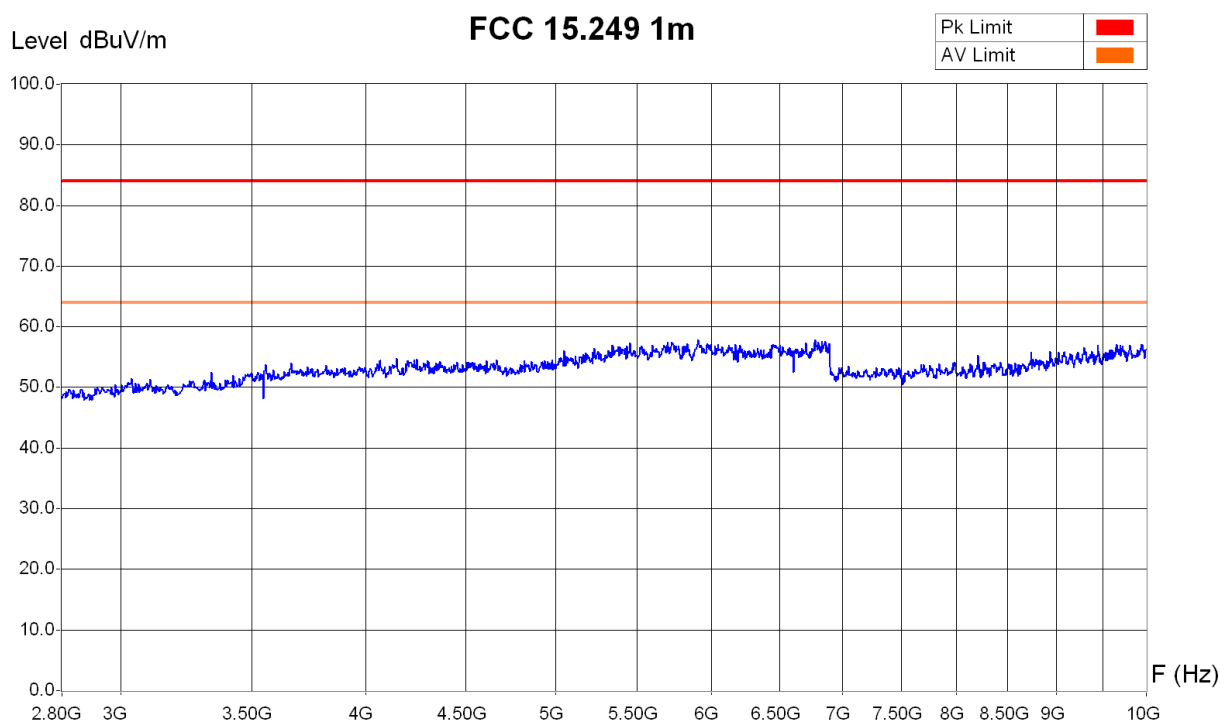
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [GHz]	Pk-value [dB μ V/m]	Delta [dB]

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



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 917.7 MHz



Zone	2.80 GHz - 4.60	4.60 GHz - 6.90	6.90 GHz - 10 GHz
Video Bandwidth	1 MHz	1 MHz	300 KHz
Resol Bandwidth	1 MHz	1 MHz	300 KHz
Sweep Time	0 s	0 s	0 s

Operator: E. Staub
Date/Time: 19.12.2002 15:16
Filename:
20025229_LCh_Headset_003v.png
gl.txt

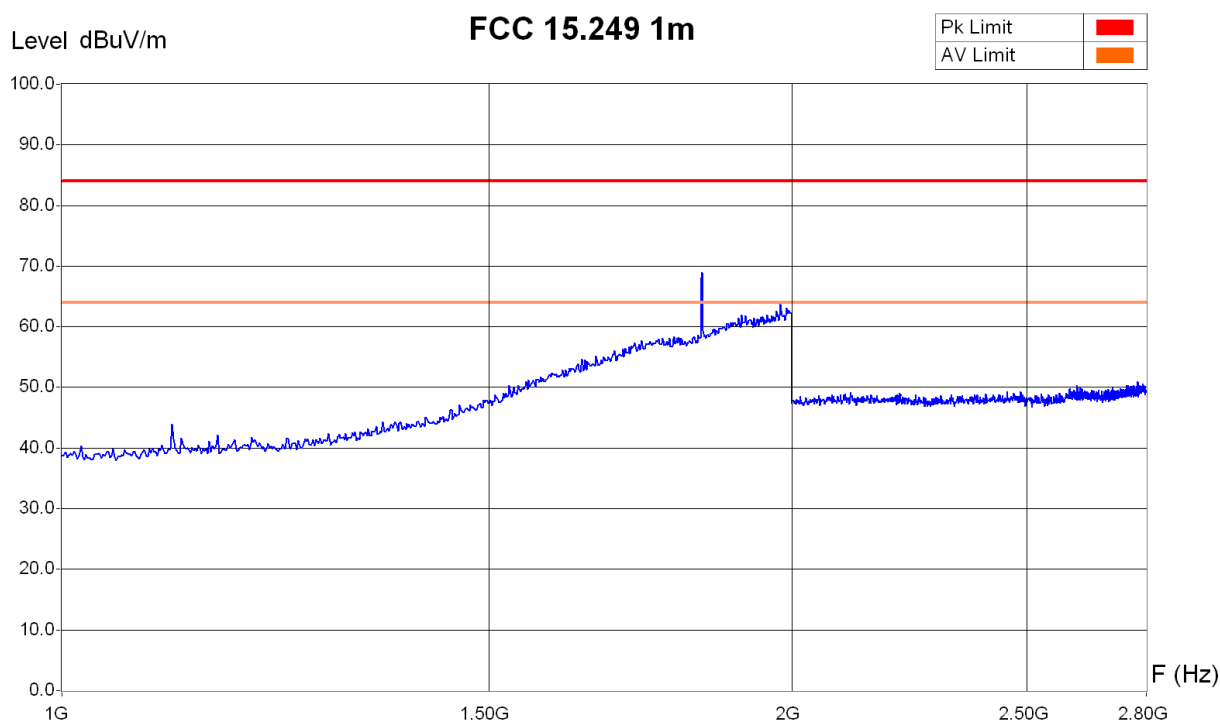
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [GHz]	Pk-value [dB μ V/m]	Delta [dB]

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



Equipment Under Test : Headset 1202 US: Highest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 921.7 MHz
Result : AV value at second harmonic below AV limit



Zone	1 GHz - 2 GHz	2 GHz - 2.60 GHz	2.60 GHz - 2.80
Video Bandwidth	1 MHz	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz	1 MHz
Sweep Time	0 s	0 s	0 s

Operator: E. Staub
Date/Time: 19.12.2002 14:40
Filename:
20025229_HCh_Headset_002h.p
ng/.txt

Table of measured Pk-values with any points within 5 dB of the limit of previous plot

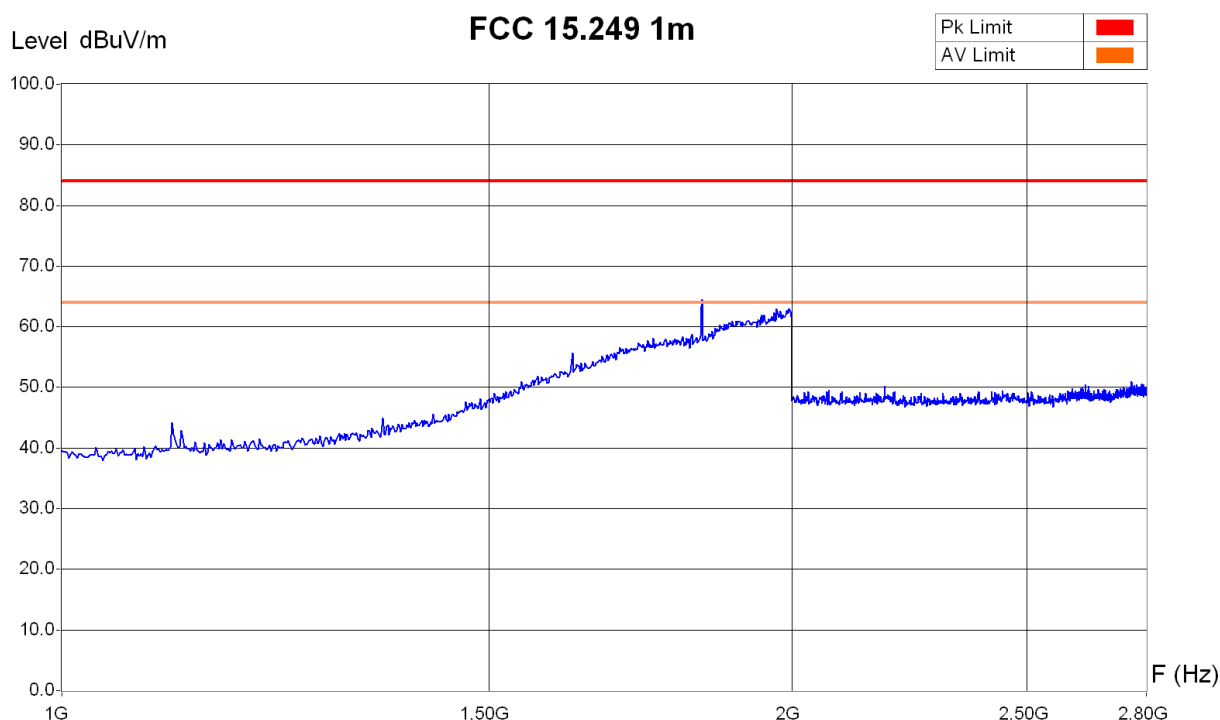
Frequency [GHz]	Pk-value [dBµV/m]	Delta [dB]
1.835	68.1	-4.1
1.837	69.0	-5.0
1.839	59.4	4.6
1.855	59.5	4.5
1.857	59.1	4.9
1.859	59.7	4.3
1.862	59.3	4.7
1.864	59.1	4.9
1.867	59.8	4.2
1.869	59.7	4.3
1.870	59.6	4.4
1.872	59.8	4.2
1.874	59.7	4.3
1.875	60.0	4.0
1.877	59.9	4.1
1.879	59.4	4.6
1.880	60.6	3.4
1.882	60.4	3.6
1.884	60.4	3.6
1.885	59.8	4.2
1.887	60.6	3.4
1.889	60.2	3.8
1.890	60.6	3.4
1.892	60.1	3.9
1.894	60.6	3.4
1.895	60.5	3.5
1.897	60.2	3.8
1.899	60.3	3.7
1.900	60.3	3.7
1.902	61.4	2.6
1.903	60.1	3.9
1.905	59.9	4.1
1.907	62.0	2.0
1.908	60.5	3.5
1.910	60.8	3.2
1.912	60.6	3.4
1.913	61.8	2.2
1.915	60.9	3.1
1.917	60.2	3.8
1.918	60.5	3.5
1.920	61.0	3.0
1.922	61.0	3.0
1.923	61.2	2.8
1.925	60.4	3.6
1.927	60.8	3.2
1.928	60.0	4.0
1.930	61.5	2.5
1.932	60.2	3.8
1.933	60.5	3.5
1.935	61.2	2.8

1.937	61.3	2.7
1.938	60.1	3.9
1.940	61.2	2.8
1.942	61.5	2.5
1.943	60.7	3.3
1.945	61.6	2.4
1.947	61.4	2.6
1.948	60.4	3.6
1.950	61.2	2.8
1.952	60.7	3.3
1.953	62.0	2.0
1.955	60.8	3.2
1.957	61.2	2.8
1.958	61.2	2.8
1.960	60.6	3.4
1.962	61.8	2.2
1.963	60.9	3.1
1.965	61.6	2.4
1.967	61.5	2.5
1.968	61.0	3.0
1.970	61.5	2.5
1.972	62.6	1.4
1.973	61.6	2.4
1.975	61.0	3.0
1.977	61.9	2.1
1.978	63.7	0.3
1.980	62.8	1.2
1.982	62.0	2.0
1.983	61.7	2.3
1.985	61.9	2.1
1.987	61.1	2.9
1.988	61.8	2.2
1.990	63.1	0.9
1.992	62.5	1.5
1.993	62.3	1.7
1.995	62.7	1.3
1.997	62.2	1.8
1.998	62.3	1.7

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



Equipment Under Test : Headset 1202 US: Highest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 921.7 MHz
Result : AV value at second harmonic below AV limit



Zone	1 GHz - 2 GHz	2 GHz - 2.60 GHz	2.60 GHz - 2.80
Video Bandwidth	1 MHz	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz	1 MHz
Sweep Time	0 s	0 s	0 s

Operator: E. Staub
Date/Time: 19.12.2002 14:37
Filename:
20025229_HCh_Headset_002v.pn
g/.txt

Table of measured Pk-values with any points within 5 dB of the limit of previous plot

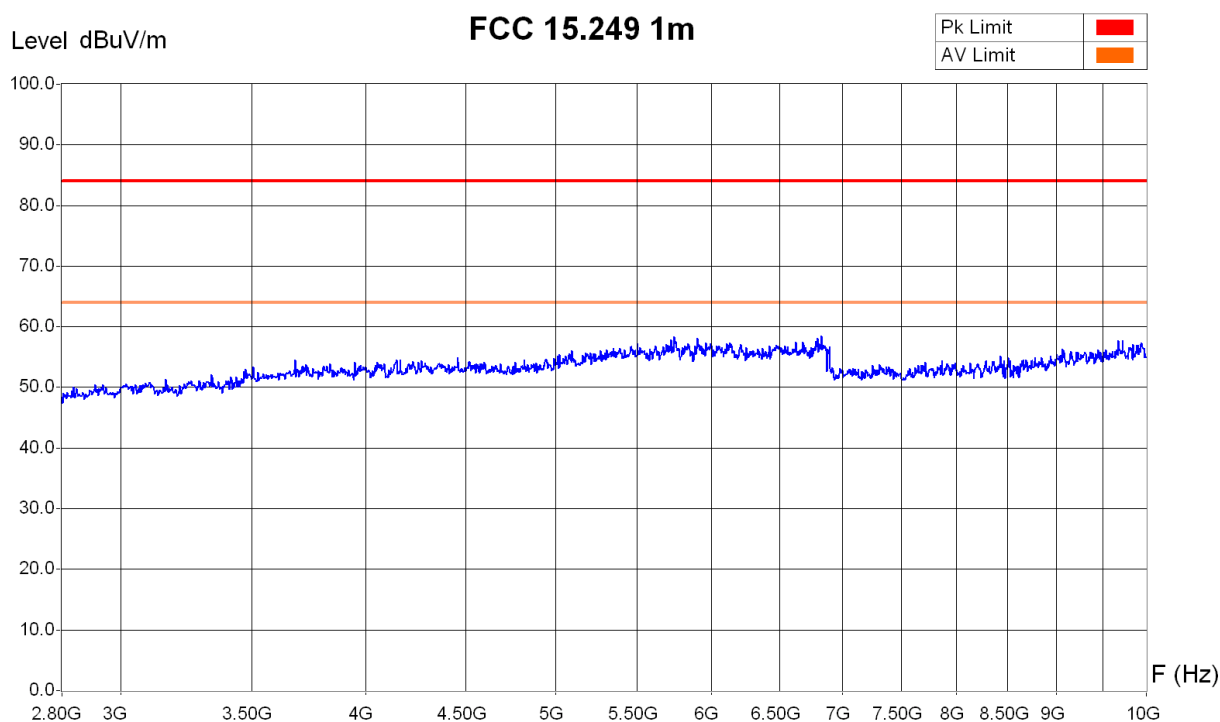
Frequency [GHz]	Pk-value [dBµV/m]	Delta [dB]
1.835	63.3	0.7
1.837	64.5	-0.5
1.854	59.2	4.8
1.860	59.7	4.3
1.862	59.2	4.8
1.864	59.6	4.4
1.865	59.3	4.7
1.867	59.3	4.7
1.869	60.3	3.7
1.870	59.8	4.2
1.872	59.7	4.3
1.874	59.7	4.3
1.875	59.3	4.7
1.877	60.4	3.6
1.879	59.6	4.4
1.880	60.4	3.6
1.882	59.7	4.3
1.884	60.3	3.7
1.885	60.6	3.4
1.887	60.5	3.5
1.889	60.0	4.0
1.890	61.0	3.0
1.892	60.1	3.9
1.894	60.1	3.9
1.895	60.0	4.0
1.897	60.9	3.1
1.899	60.3	3.7
1.900	61.0	3.0
1.902	60.8	3.2
1.903	60.7	3.3
1.905	60.2	3.8
1.907	60.0	4.0
1.908	60.8	3.2
1.910	60.5	3.5
1.912	60.3	3.7
1.913	60.3	3.7
1.915	60.7	3.3
1.917	60.9	3.1
1.918	60.9	3.1
1.920	61.0	3.0
1.922	60.4	3.6
1.923	60.7	3.3
1.925	60.2	3.8
1.927	60.5	3.5
1.928	60.8	3.2
1.930	60.6	3.4
1.932	60.7	3.3
1.933	60.7	3.3
1.935	59.9	4.1
1.937	60.9	3.1

1.938	61.1	2.9
1.940	60.3	3.7
1.942	61.5	2.5
1.943	61.9	2.1
1.945	60.6	3.4
1.947	61.1	2.9
1.948	61.9	2.1
1.950	61.1	2.9
1.952	60.4	3.6
1.953	60.8	3.2
1.955	60.7	3.3
1.957	61.4	2.6
1.958	61.1	2.9
1.960	60.9	3.1
1.962	61.7	2.3
1.963	61.0	3.0
1.965	61.1	2.9
1.967	62.3	1.7
1.968	61.0	3.0
1.970	61.0	3.0
1.972	62.9	1.1
1.973	62.1	1.9
1.975	61.5	2.5
1.977	62.0	2.0
1.978	62.6	1.4
1.980	61.4	2.6
1.982	61.3	2.7
1.983	61.9	2.1
1.985	61.5	2.5
1.987	61.7	2.3
1.988	62.0	2.0
1.990	62.6	1.4
1.992	62.7	1.3
1.993	62.3	1.7
1.995	63.0	1.0
1.997	62.6	1.4
1.998	61.6	2.4

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



Equipment Under Test : Headset 1202 US: Highest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 921.7 MHz



Zone	2.80 GHz - 4.60	4.60 GHz - 6.90	6.90 GHz - 10 GHz
Video Bandwidth	1 MHz	1 MHz	300 KHz
Resol Bandwidth	1 MHz	1 MHz	300 KHz
Sweep Time	0 s	0 s	0 s

Operator: E. Staub
Date/Time: 19.12.2002 15:27
Filename:
20025229_HCh_Headset_003h.p
ng/.txt

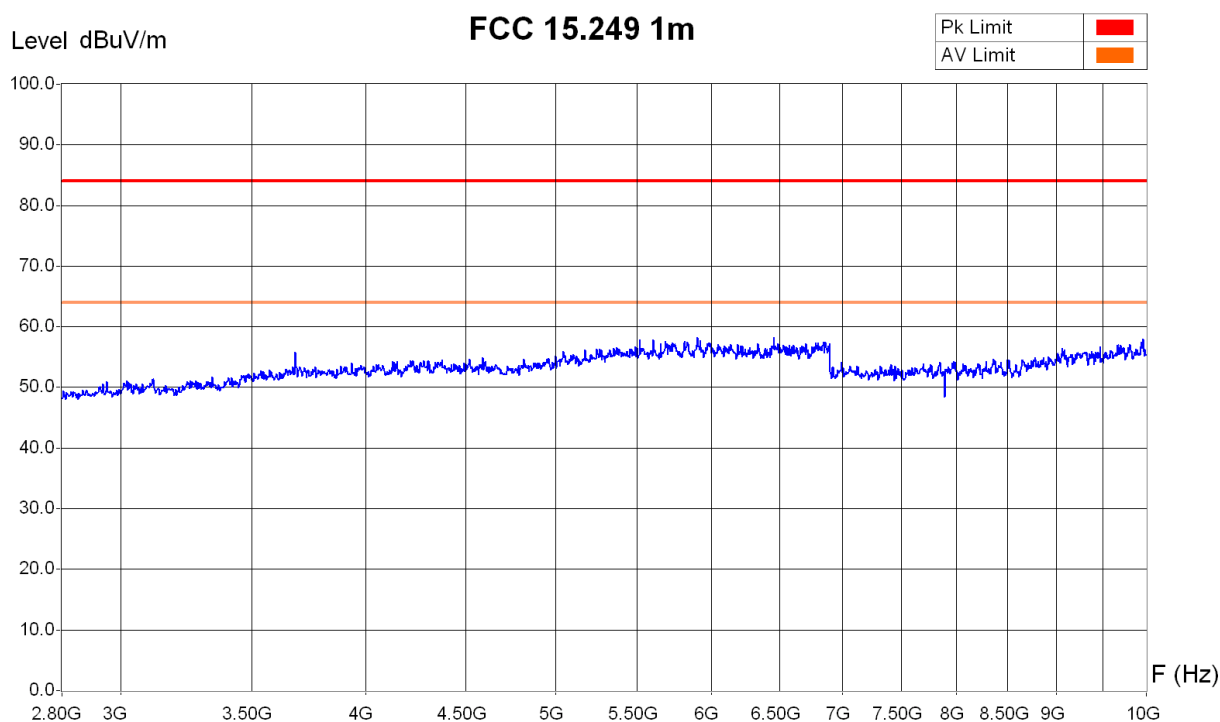
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [GHz]	Pk-value [dB μ V/m]	Delta [dB]

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



Equipment Under Test : Headset 1202 US: Highest channel
Set-Up : without artificial head
Operating Conditions : modulated
Remarks : carrier at 921.7 MHz



Zone	2.80 GHz - 4.60	4.60 GHz - 6.90	6.90 GHz - 10 GHz
Video Bandwidth	1 MHz	1 MHz	300 KHz
Resol Bandwidth	1 MHz	1 MHz	300 KHz
Sweep Time	0 s	0 s	0 s

Operator: E. Staub
Date/Time: 19.12.2002 15:32
Filename:
20025229_HCh_Headset_003v.pn
g/.txt

Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [GHz]	Pk-value [dB μ V/m]	Delta [dB]

7. Emission Test Receiver

7.1 Radiated electromagnetic field 30 - 1000 MHz

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

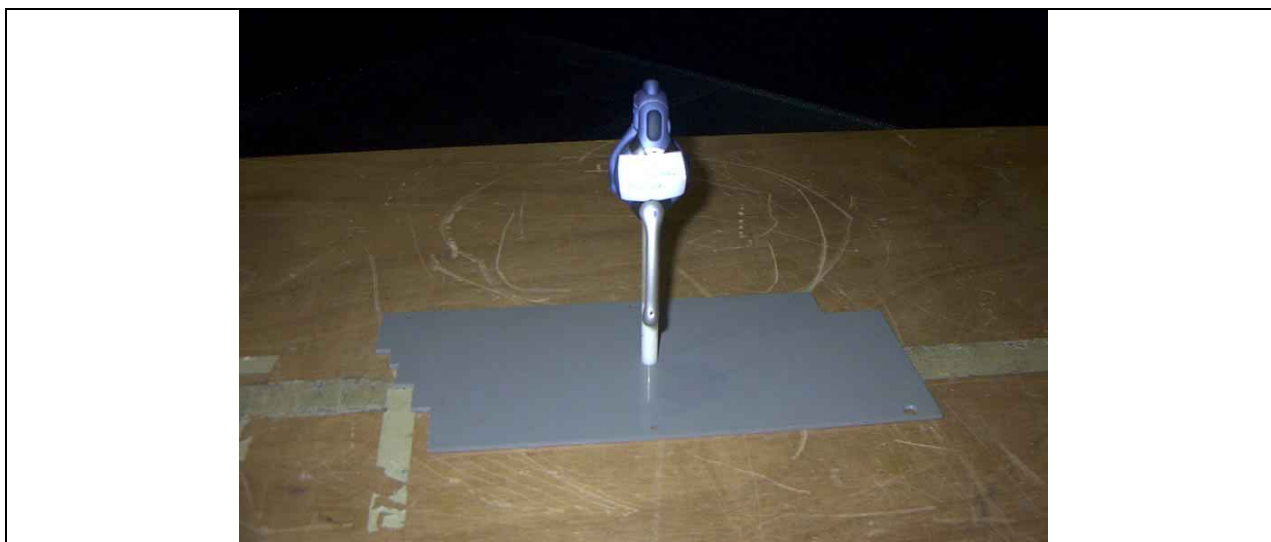
Distance: ☐ 30 m ☐ 10 m ☒ 3 m ☐

Position of EUT: 0.8 m (height of the equipment under test above floor)

Test precision: ± 6 dB (30 - 300 MHz) / ± 5.4 dB (300 - 1000 MHz)

Test method: The electromagnetic disturbance radiated by the equipment is measured from 30 to 1000 MHz 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 disturbance appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding the limits are remeasured manually giving quasi-peak values and average values using a receiver and these measurements are indicated under the graph. The limit must be respected in quasi-peak values (QP).

Test set-up:



Remarks:

- Maximum field strength measured from 1 to 3 m.
- Radiated emissions measurements were maximized through orientation of EUT in three orthogonal axes

Test equipment:

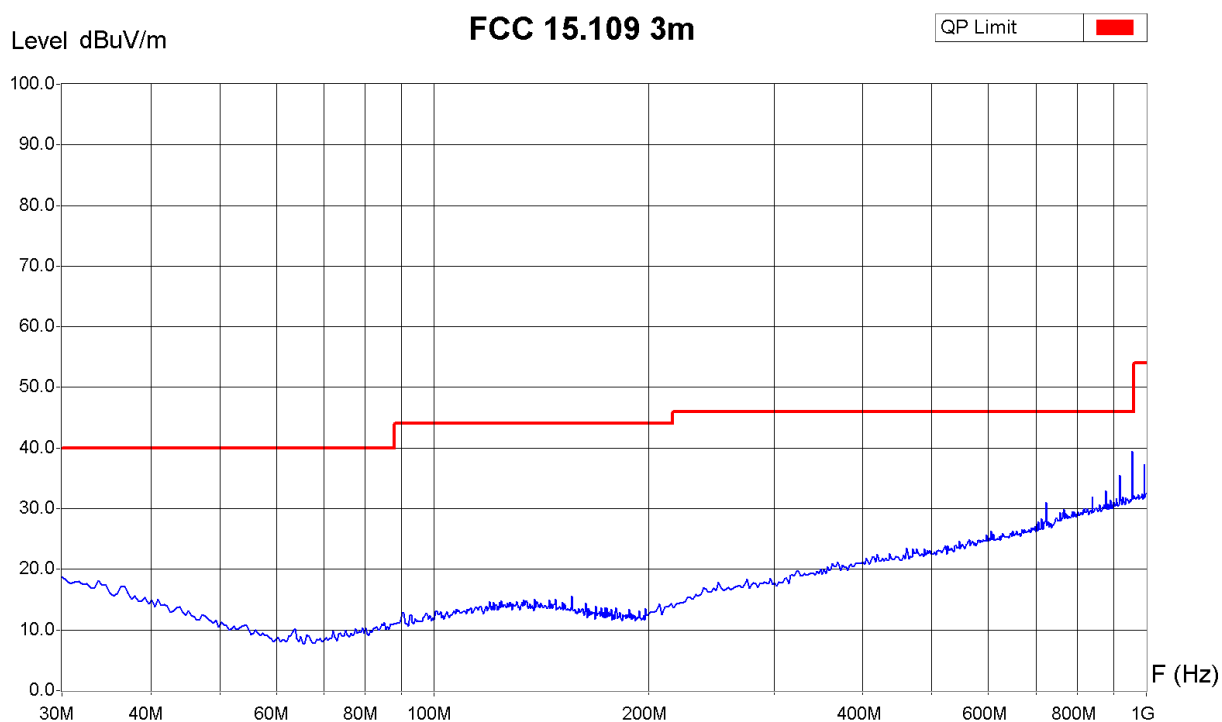
☒ Spectrum analyser	☐ 88-14	☐ 90-26	☒ 94-24		
☒ Receiver	☐ 85-04	☐ 90-43	☒ 94-35		
☒ Preamplifier	☐ 88-05	☐ 90-01	☒ 90-42	☐ 95-86	☐ 92-39
☐ Antenna (horn)	☐ 90-24	☐ 90-29	☐ 98-12	☐ 98-13	☐
☒ Antenna	☒ 94-03				
☐ Notch filter					

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

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0 - 360°
Antenna Height : 1 - 3m



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : receive mode
Remarks : 917.7 MHz
P2 = EUT vertical



Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	300 KHz	300 KHz
Resol Bandwidth	120 KHz	120 KHz
Sweep Time	0 s	0 s

Operator: E. Staub
Date/Time 02.07.03 10:35
Filename: 20025229_RX_Headset_000hP2.png/.txt

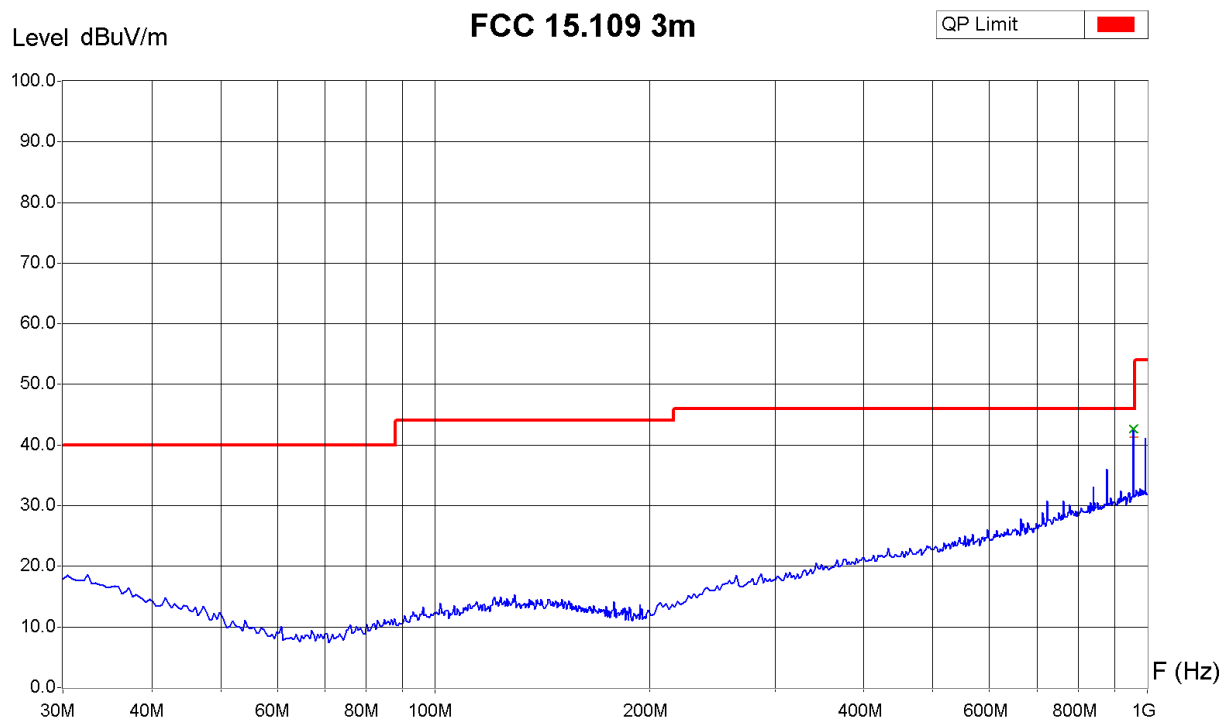
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [MHz]	Pk-value [dB μ V/m]	Delta [dB]

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1 - 3m



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : receive mode
Remarks : 917.7 MHz
P2 = EUT vertical



Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	300 KHz	300 KHz
Resol Bandwidth	120 KHz	120 KHz
Sweep Time	0 s	0 s

Receiver Measures

Frequency	Peak	QuasiPeak (x)	Average (+)	QP Margin
956.69 MHz	43.0 dBuV/m	42.7 dBuV/m	41.3 dBuV/m	3.3 dB

Operator: E. Staub
Date/Time 02.07.03 10:40
Filename:
20025229_RX_Headset_000vP2.p
ng/.txt

Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [MHz]	Pk-value [dBμV/m]	Delta [dB]
956.05	42.4	3.6

7.2 Radiated electromagnetic field 1 - 5 GHz

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

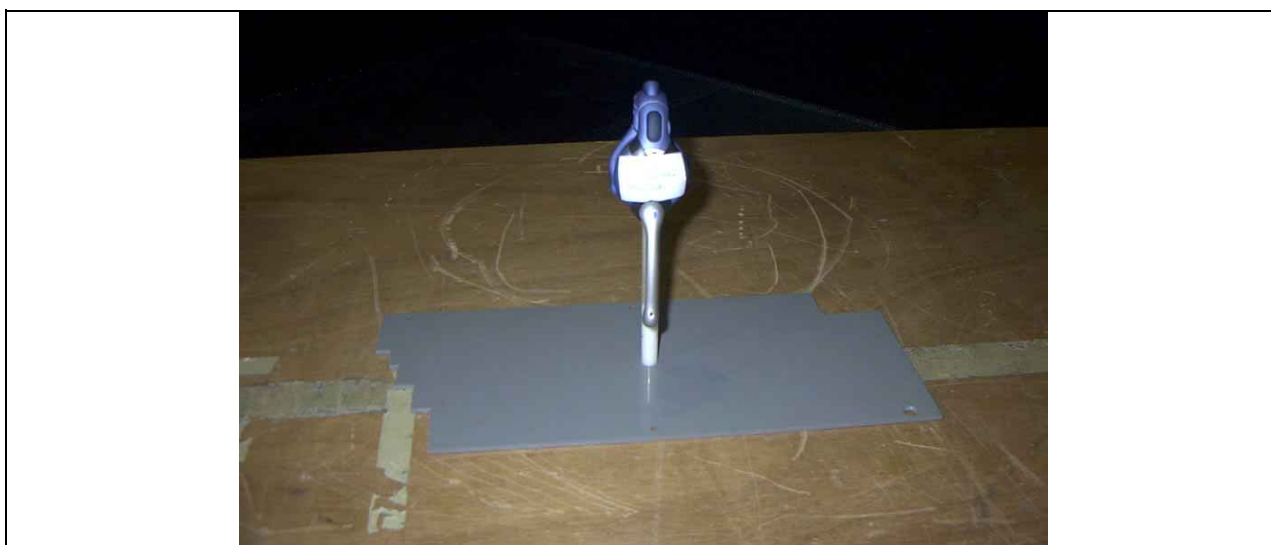
Distance: ☐ 30 m ☐ 10 m ☐ 3 m ☒ 1 m

Position of EUT: 0.8 m (height of the equipment under test above floor)

Test precision: ± 6 dB (30 - 300 MHz) / ± 5.4 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 turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbance appearing while the apparatus is under test. The peak values are recorded continuously on the graph.

Test set-up:



Remarks: • Radiated emissions measurements were maximized through orientation of EUT in three orthogonal axes

Test equipment:

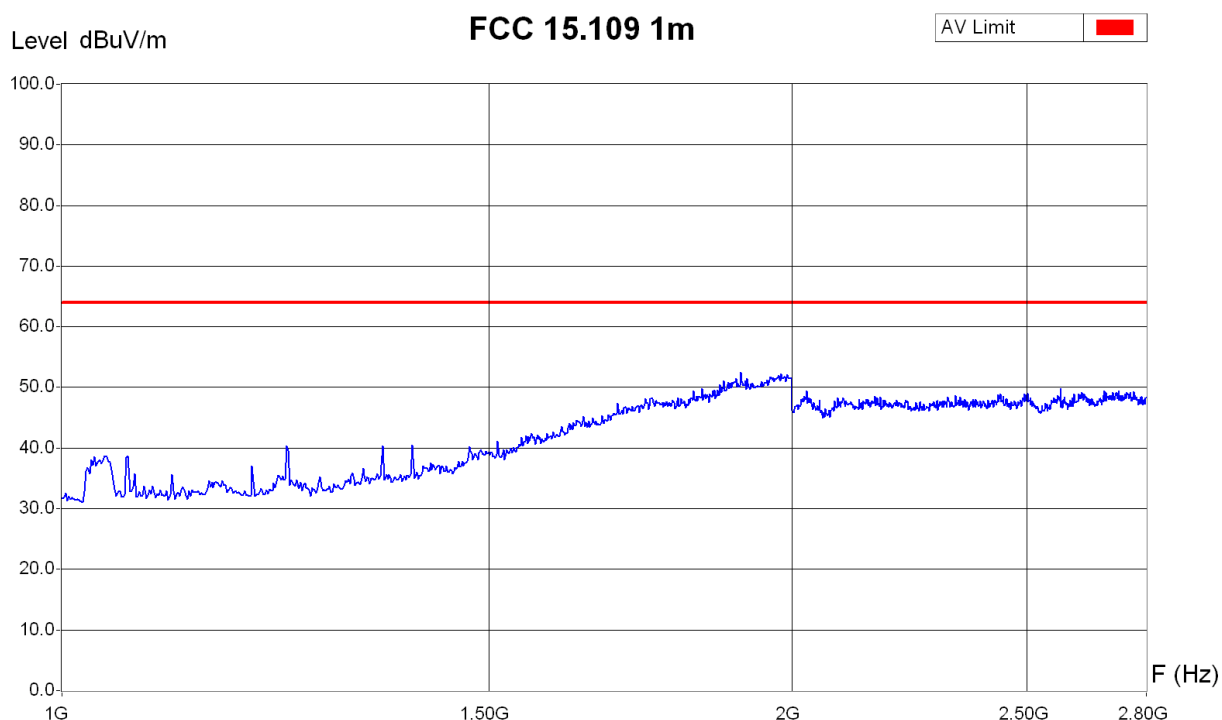
☒ Spectrum analyser	☒ 88-14	☐ 90-26	☐ 94-24		
☐ Receiver	☐ 85-04	☐ 90-43	☐ 94-35		
☒ Preamplifier	☐ 88-05	☐ 90-01	☐ 90-42	☒ 95-86	☒ 92-39
☐ Antenna (biconical)	☐ 82-02	☐ 87-05	☐ 87-16	☐ 91-05	☐ 94-37
☐ Antenna (log-per)	☐ 88-20	☐ 90-30	☐ 91-35	☐ 94-64	
☒ Antenna (horn)	☐ 90-24	☒ 90-29	☐ 98-12	☐ 98-13	☐
☐ Notch and high-pass filter					

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

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



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : receive mode
Remarks : 917.7 MHz
P2 = EUT vertical



Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz
Sweep Time	0 s	0 s

Operator: E. Staub
Date/Time: 03.07.2003 11:54
Filename:
20025229_RX_Headset_001hP2.png/.txt

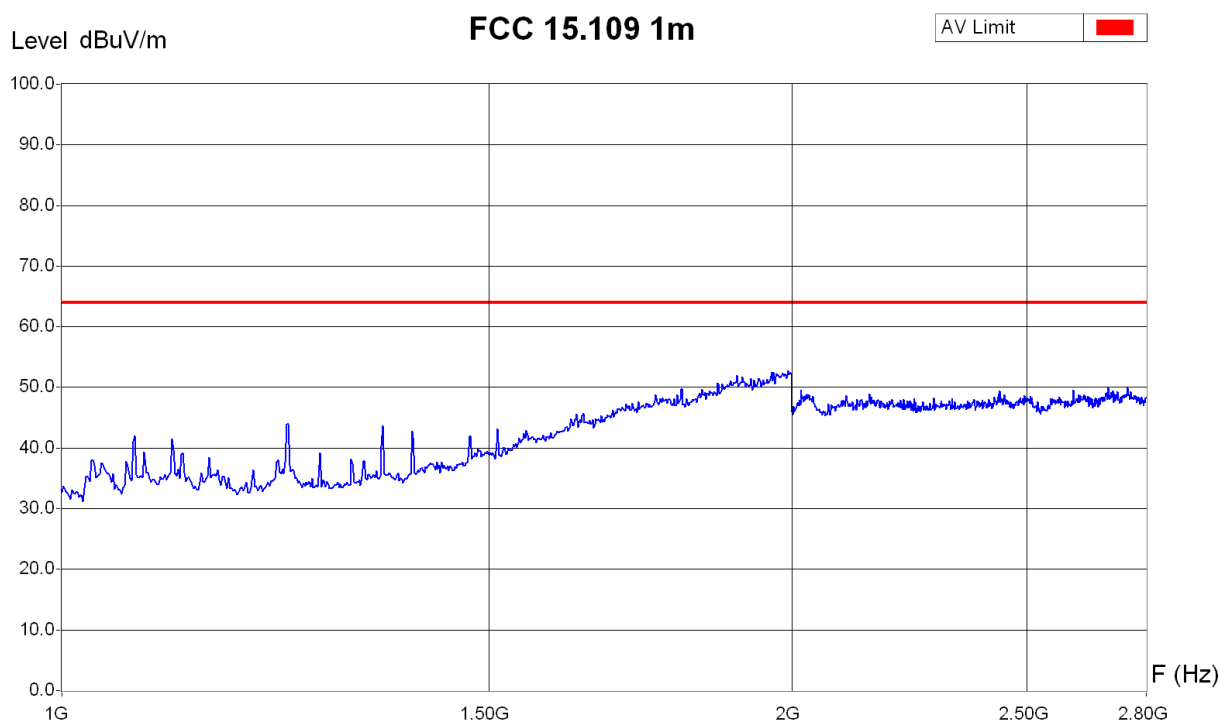
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [GHz]	Pk-value [dB μ V/m]	Delta [dB]

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



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : receive mode
Remarks : 917.7 MHz
P2 = EUT vertical



Zone	1 GHz - 2 GHz	2 GHz - 2.80 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz
Sweep Time	0 s	0 s

Operator: E. Staub
Date/Time: 03.07.2003 11:56
Filename:
20025229_RX_Headset_001vP2.png/.txt

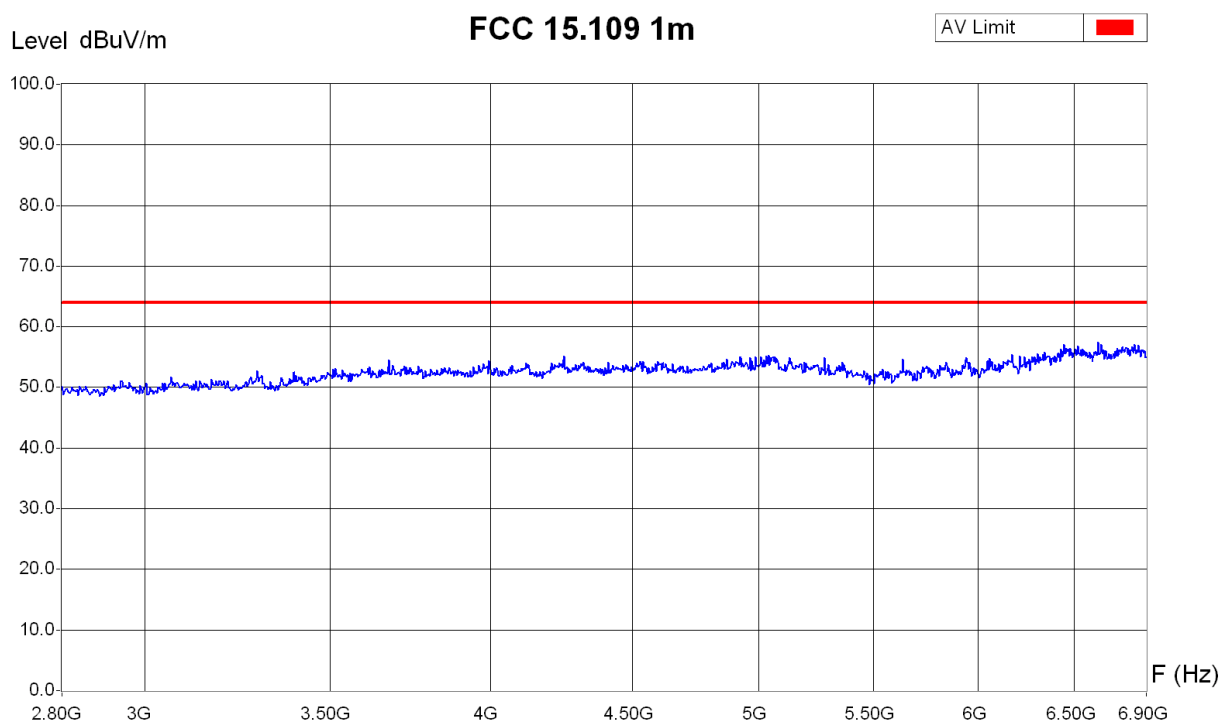
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [GHz]	Pk-value [dB μ V/m]	Delta [dB]

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



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : receive mode
Remarks : 917.7 MHz
P2 = EUT vertical



Zone	2.80 GHz - 4.60	4.60 GHz - 6.90
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz
Sweep Time	0 s	0 s

Operator: E. Staub
Date/Time: 03.07.2003 12:10
Filename:
20025229_RX_Headset_002hP2.png/.txt

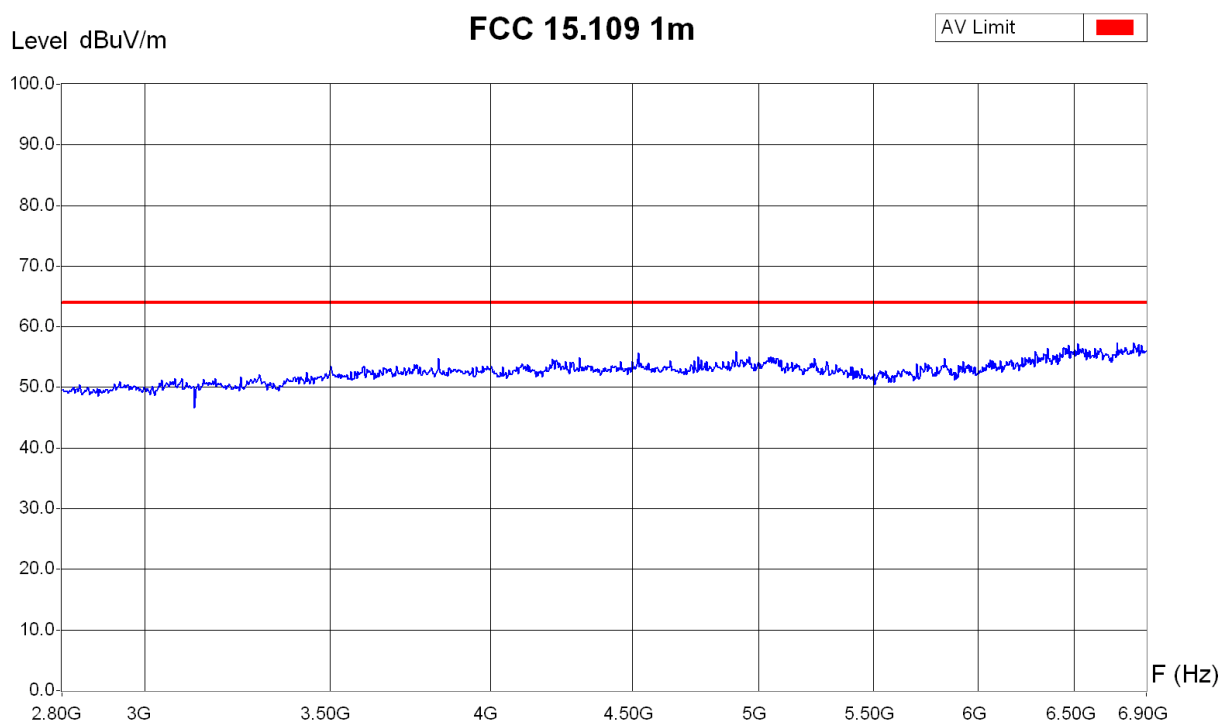
Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [GHz]	Pk-value [dB μ V/m]	Delta [dB]

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



Equipment Under Test : Headset 1202 US: Lowest channel
Set-Up : without artificial head
Operating Conditions : receive mode
Remarks : 917.7 MHz
P2 = EUT vertical



Zone	2.80 GHz - 4.60	4.60 GHz - 6.90
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz
Sweep Time	0 s	0 s

Operator: E. Staub
Date/Time: 03.07.2003 12:08
Filename:
20025229_RX_Headset_002vP2.png/.txt

Table of measured Pk-values with any points within 5 dB of the limit of previous plot

Frequency [GHz]	Pk-value [dB μ V/m]	Delta [dB]

8. Test equipment

Inv.	Manufacturer	Model	Last cal.	Cal interval
88-14	Hewlett Packard	8562A	Feb 2003	1 year
94-24	Hewlett Packard	8591E	Feb 2003	1 year
94-24	Hewlett Packard	E 4407 B	March 2002	2 years
90-43	Rohde & Schwarz	ESVP	Feb 2003	1 year
94-35	Rohde & Schwarz	ESVS10	Feb 2003	1 year
90-42	Montena emc		Feb 2003	1 year
95-86	Montena emc		Feb 2003	1 year
92-39	Hewlett Packard	8349	Feb 2003	1 year