



REPORT

Datum/Date:
1998-12-16

Beteckning/Reference:
98F52452

Sida/Page:
Encl. 2.1

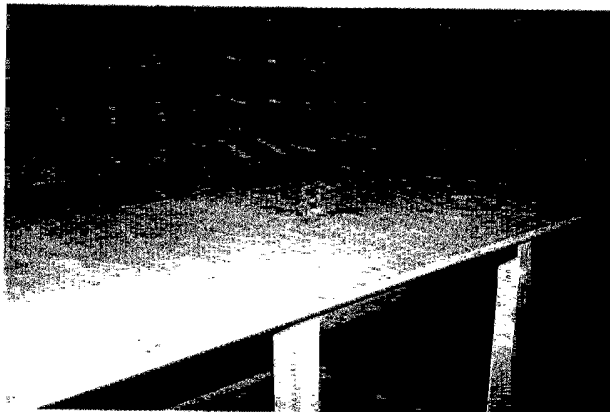
Radiated emission measurement on Transmitter part according to 15.231 e)

Date 24 November, 1998	Temperature 22 °C ± 3 °C	Humidity 23 % ± 5 %
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Test set-up and Procedure

The test of radiated emission was performed in the fully anechoic chamber at SP. The EUT was measured in 8 perpendicular directions. In the frequency range 4-30 MHz, an active rod antenna was used. In the frequency range 30-1000 MHz, a bilog antenna was used. In the frequency range 1-4.2 GHz, a horn antenna was used. The measurements were performed with both horizontal and vertical polarisation of the antenna in the frequency range 30-4200 MHz. The antenna distance was 3 m and the antenna height 1.3 m. The measurement is first performed with peak detector. Emission on frequencies close to or above the limit is controlled with quasi-peak detector.

The test set-up during the test can be seen in the picture below.



Measurement equipment	SP number
Anechoic chamber	8312
R&S ESAI	502 199
Compaq Presario	501 516
Software: R&S ES-K1, ver. 1.40c	
Chase Bilog antenna CBL 6121A	502 460
Testo 610, Temperature and humidity meter	502 658
EMCO 3115 Horn antenna	502 175
EMCO 3301	500 579
HP 8566B Spectrum analyser	501437
HP 85685A Preselector	501438
HP 85685A Quasipeak adapter	501 439
HP 9836CH Control computer	500 576
HP 85869A EMI measurement software	

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Sida/*Page*
Encl. 2.2

Result

The emission spectra can be found in the following enclosures:

Enclosure 2.3: 4-30 MHz

Enclosure 2.4: 30-1000 MHz

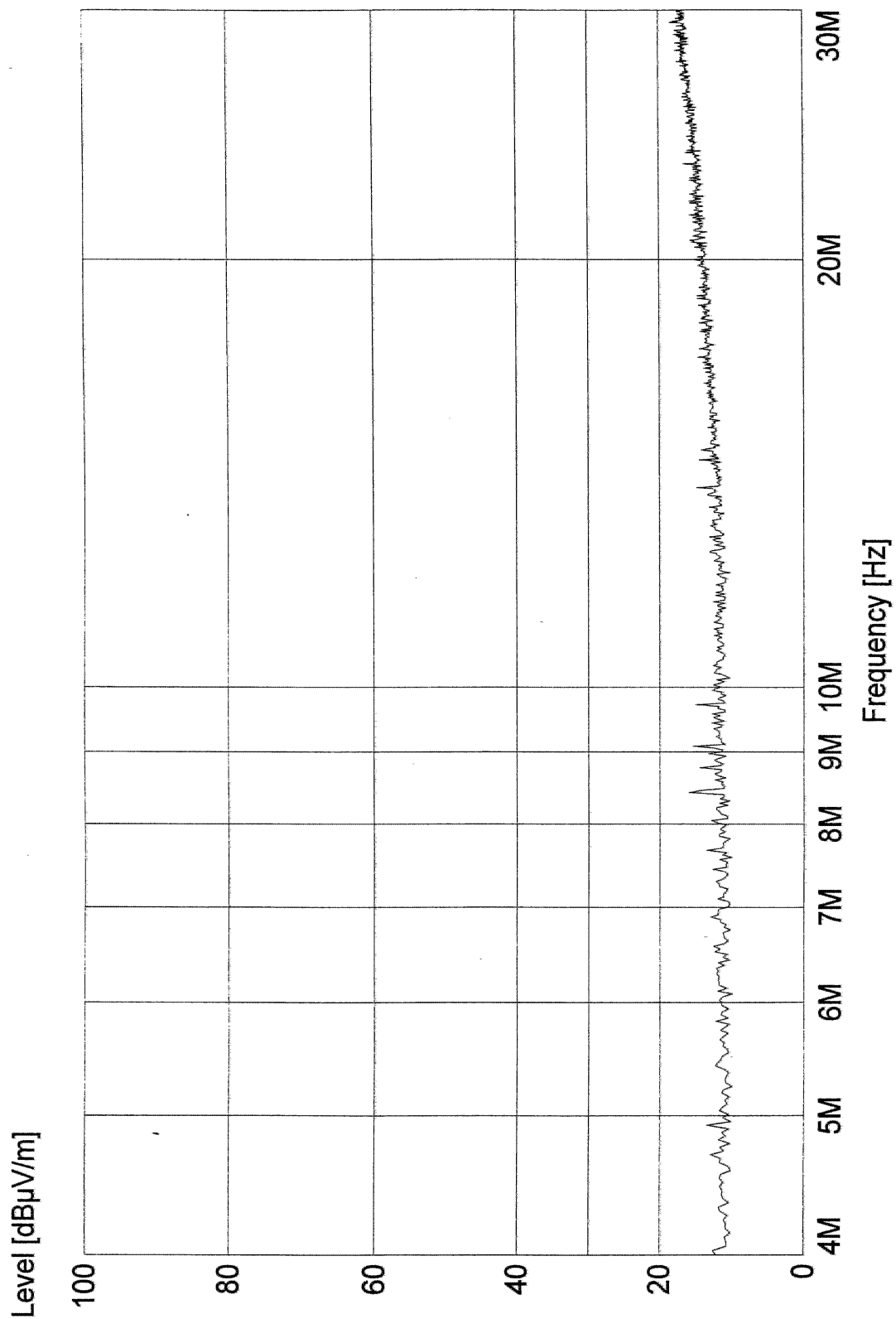
Enclosure 2.5: 1-4.2 GHz Horizontal polarisation

Enclosure 2.6: 1-4.2 GHz Vertical polarisation

Limit

According to table in 15.231 e , the radiated emission shall not exceed 52 dB μ V/m. This value is calculated from the fundamental frequency of 418 MHz.

Emission below limit?	Yes
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— MES T3_pre PK
- - - LIM FCC part 15 4-30M

