

Accredited Testing Laboratory

**DAR-Registration number:
TTI-P-G 166/98-00**

**Test report no.: 2_2131-C/00
FCC Part 15.249
AM 3000 / AD 3000**

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1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

1.2 Testing laboratory

CETECOM ICT Services GmbH

Untertürkheimer Straße 6 – 10

66117 Saarbrücken

Deutschland

Telephone: + 49 681 598 - 9100

Telefax : + 49 681 598 - 9075

E-mail : Michael.Berg@ict.cetecom.de

Internet : www.cetecom.de

Accredited testing laboratory

DAR-registration number : TTI-P-G 166/98

1.3 Details of applicant

Name : Sennheiser electronic GmbH & Co. KG
Street : Am Labor 1
City : D-30900 Wedemark
Country : Germany
Telephone : +49 (51 30) 600-0
Telefax : +49 (51 30) 600-300
Contact : Mr. Klaus Willemsen
Telephone : +49 (51 30) 600-542

1.4 Application details

Date of receipt of application : 07.12.2000
Date of receipt of test item : 07.12.2000
Date of test : 19./20.12.2000

1.5 Test item

Type of equipment : **wireless audio transmission system**
Type designation : **AM 3000 with AD 3000 (external Antenna)**
Manufacturer : applicant
Street :
City :
Country :
Serial number :
Additional informations: :
Frequency : 2401.92 – 2482.272.5 MHz
Type of modulation : 2M00F1D
Number of channels : 94
Antenna : chip antenna or external Antenna AD 3000
Power supply : 15V DC
Output power : max. 0,44 mW
Type of equipment : Temperature range : -30°C - +50°C

1.6 Test standards: FCC Part 15 §15.249

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

Technical responsibility for area of testing :

27.12.00 RSC 8411 Berg

Date	Section	Name	Signature
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Technical responsibility for area of testing :

27.12.00 RSC8414 Ames

Date	Section	Name	Signature
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2.2 Testreport

TEST REPORT

Testreport no. : 2_2131-C/00

TEST REPORT REFERENCE

LIST OF MEASUREMENTS

Paragraph	PARAMETER TO BE MEASURED	PAGE
	Transmitter parameters	
§ 15.249 (a)	Maximum field Strenght	7
§ 15.107/207	Conducted emissions	14
§15.249 (c)	Transmitter spurious	15
	Transmitter output spectrum	23
§15.209	Transmitter spurious - conducted	24
	Band edge compliance – Restricted band	31
	Test equipment listing	32
	Photographs of the equipment	34

Equipment under test : AM 3000
Ambient temperature : 23 °C
Relative humidity : 30 %
**MAXIMUM FIELD STRENGTH
(RADIATED)**
SUBCLAUSE § 15.249 (a)
measured with external antenna AD 3000

TEST CONDITIONS		MAXIMUM FIELD STRENGTH (dBµV/m)			
Frequency (MHz)		2401.920		2442.528	2482.272
T _{nom} (23) °C	V _{nom} (110.0) V	Peak	92.90	93.40	93.30
		Average	91.60	92.10	92.10
Maximum deviation from output power under extreme test conditions (dBc)		-0.6		-0,2	+0,2
Measurement uncertainty		±3dB			

measured with internal antenna

TEST CONDITIONS		MAXIMUM FIELD STRENGTH (dBµV/m)			
Frequency (MHz)		2401.920		2442.528	2482.272
T _{nom} (23) °C	V _{nom} (110.0) V	Peak	93.90	93.50	91.60
		Average	92.60	92.20	90.30
Maximum deviation from output power under extreme test conditions (dBc)		-0.6		-0,2	+0,2
Measurement uncertainty		±3dB			

LIMIT
SUBCLAUSE § 15.249 (a)

Frequency range	MAXIMUM FIELD STRENGTH
2400-2483.5	50mV/m or 94 dBµV/m

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
 (for reference numbers see test equipment listing)

17-24

Equipment under test : AM 3000

Ambient temperature : 23 °C

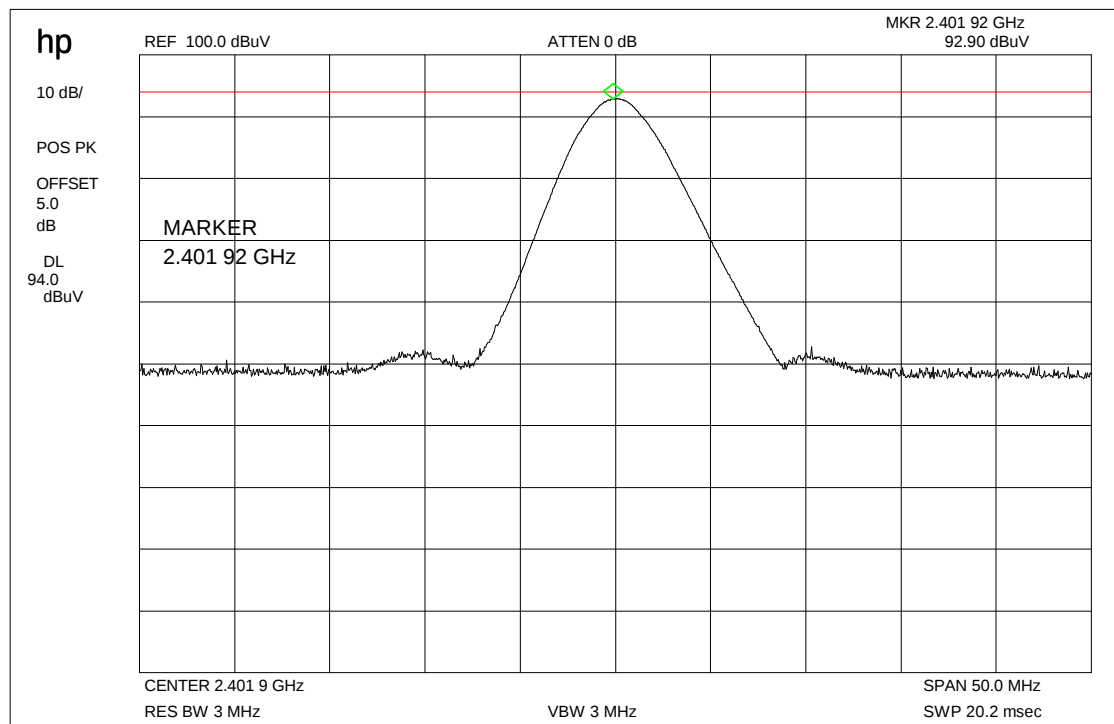
Relative humidity : 30%

MAXIMUM FIELD STRENGTH (RADIATED)

SUBCLAUSE § 15.249 (a)

2401.920 MHz

external antenna



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

17-24

Equipment under test : AM 3000

Ambient temperature : 23 °C

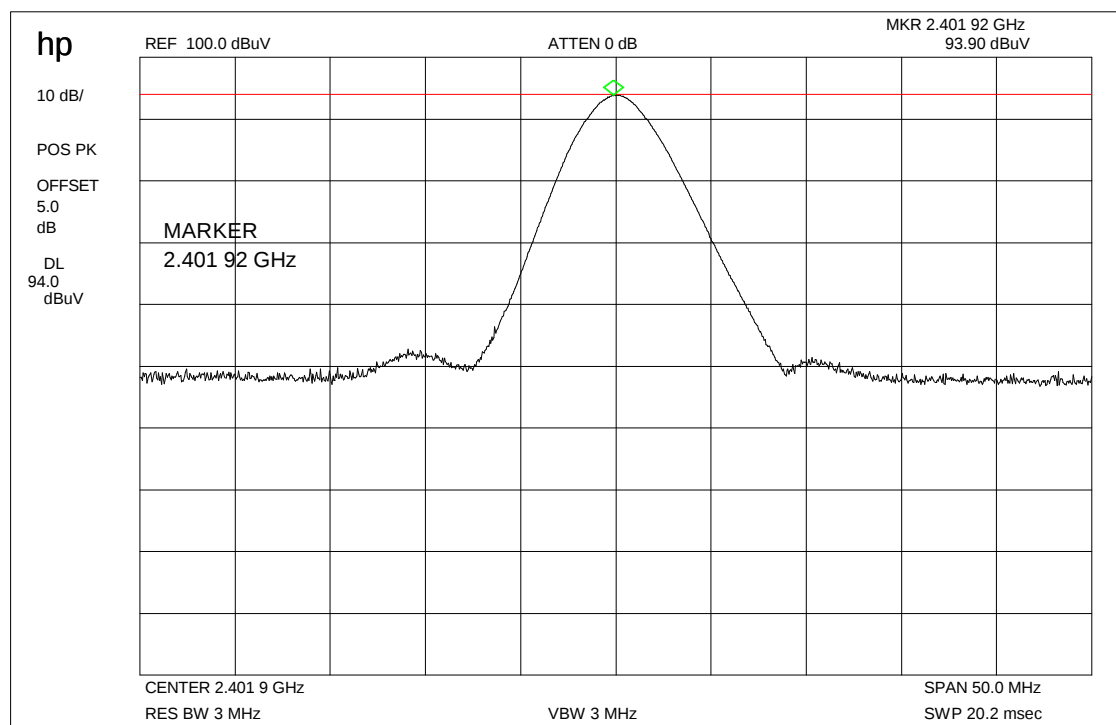
Relative humidity : 30 %

MAXIMUM FIELD STRENGTH (RADIATED)

SUBCLAUSE § 15.249 (a)

2401,920 MHz

internal antenna



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

17-24

Equipment under test : AM 3000

Ambient temperature : 23 °C

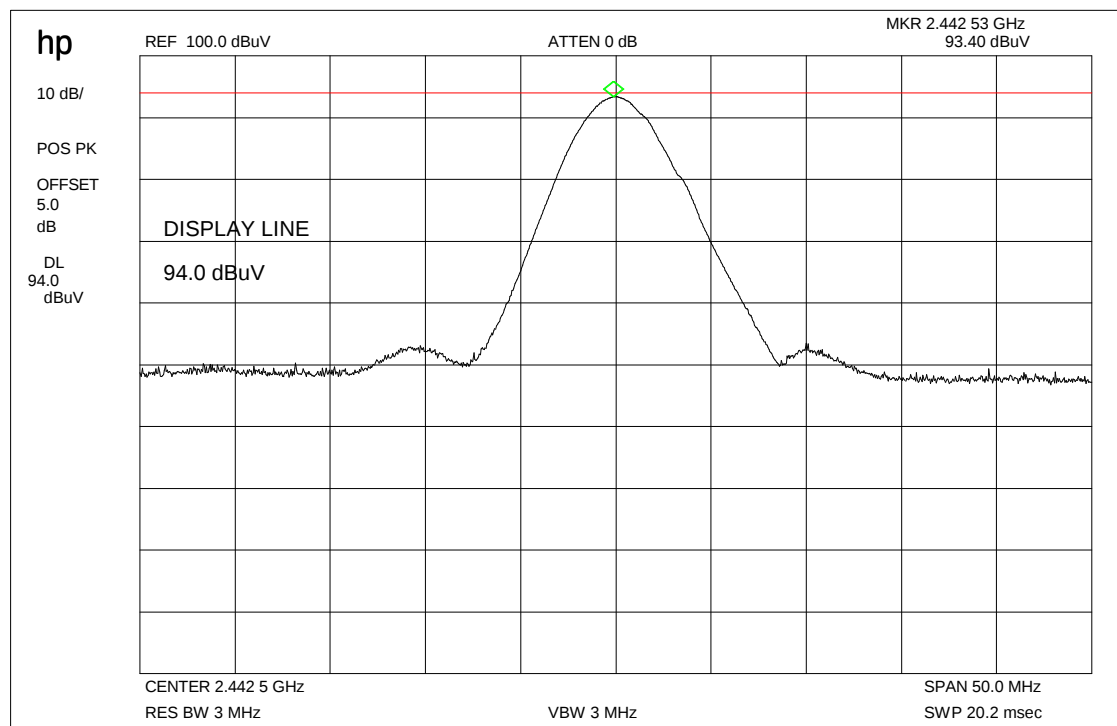
Relative humidity : 30 %

MAXIMUM FIELD STRENGTH (RADIATED)

SUBCLAUSE § 15.249 (a)

2442,528 MHz

external antennna



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

17-24

Equipment under test : AM 3000

Ambient temperature : 23 °C

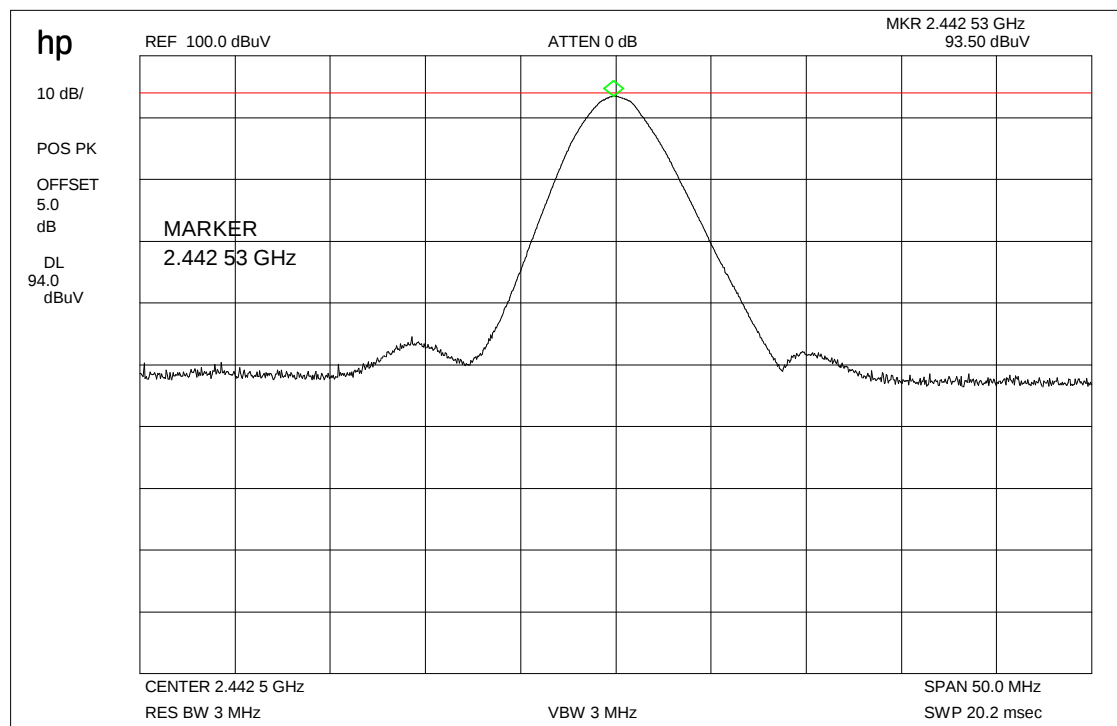
Relative humidity : 30 %

MAXIMUM FIELD STRENGTH (RADIATED)

SUBCLAUSE § 15.249 (a)

2442,528 MHz

internal antennna



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

17-24

Equipment under test : AM 3000

Ambient temperature : 23 °C

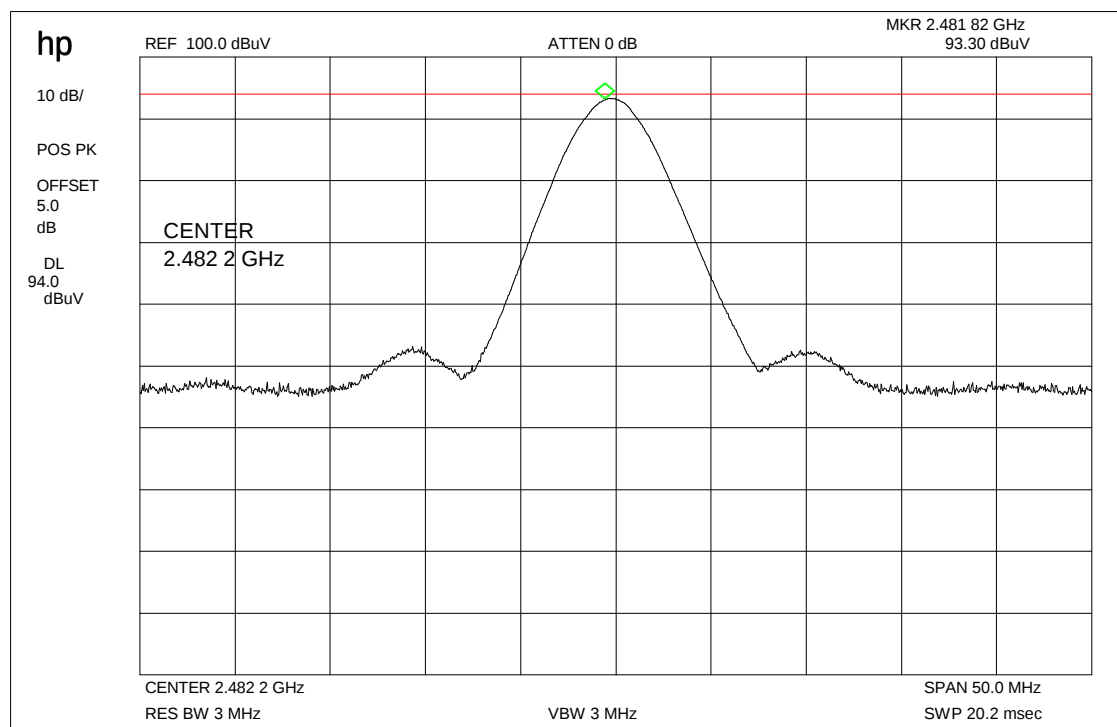
Relative humidity : 30 %

MAXIMUM FIELD STRENGTH (RADIATED)

SUBCLAUSE § 15.249 (a)

2482.272 MHz

external antenna



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

17-24

Equipment under test : AM 3000

Ambient temperature : 23 °C

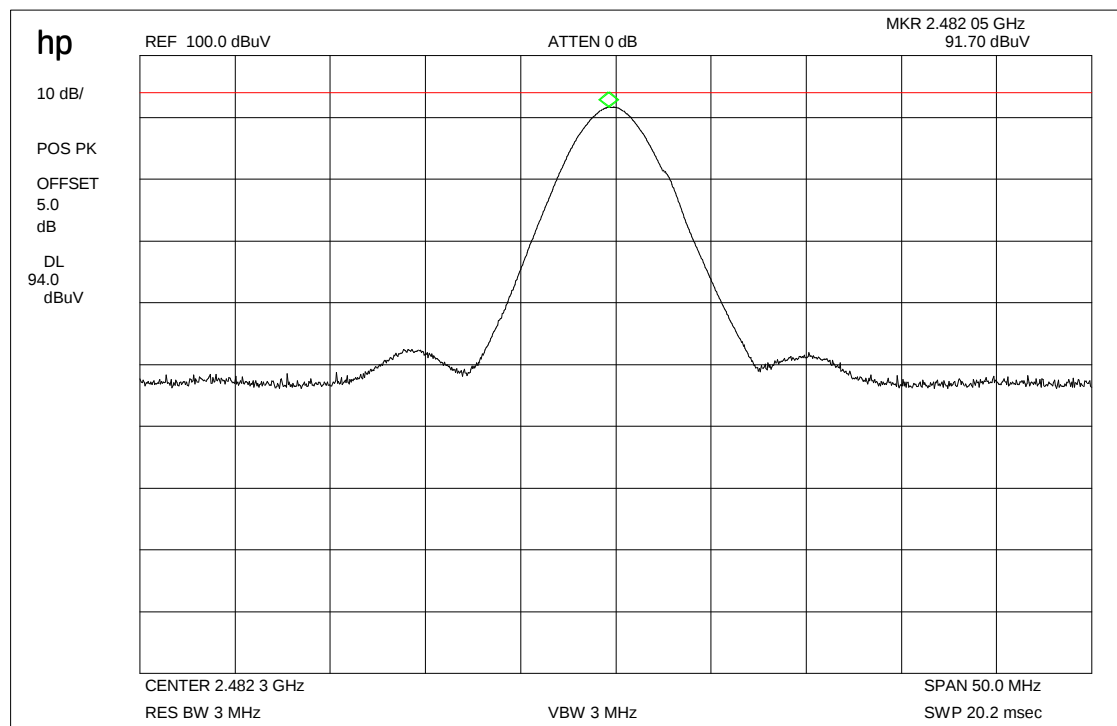
Relative humidity : 30 %

MAXIMUM FIELD STRENGTH (RADIATED)

SUBCLAUSE § 15.249 (a)

2482.272 MHz

internal antenna



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

17-24

Equipment under test : AM 3000

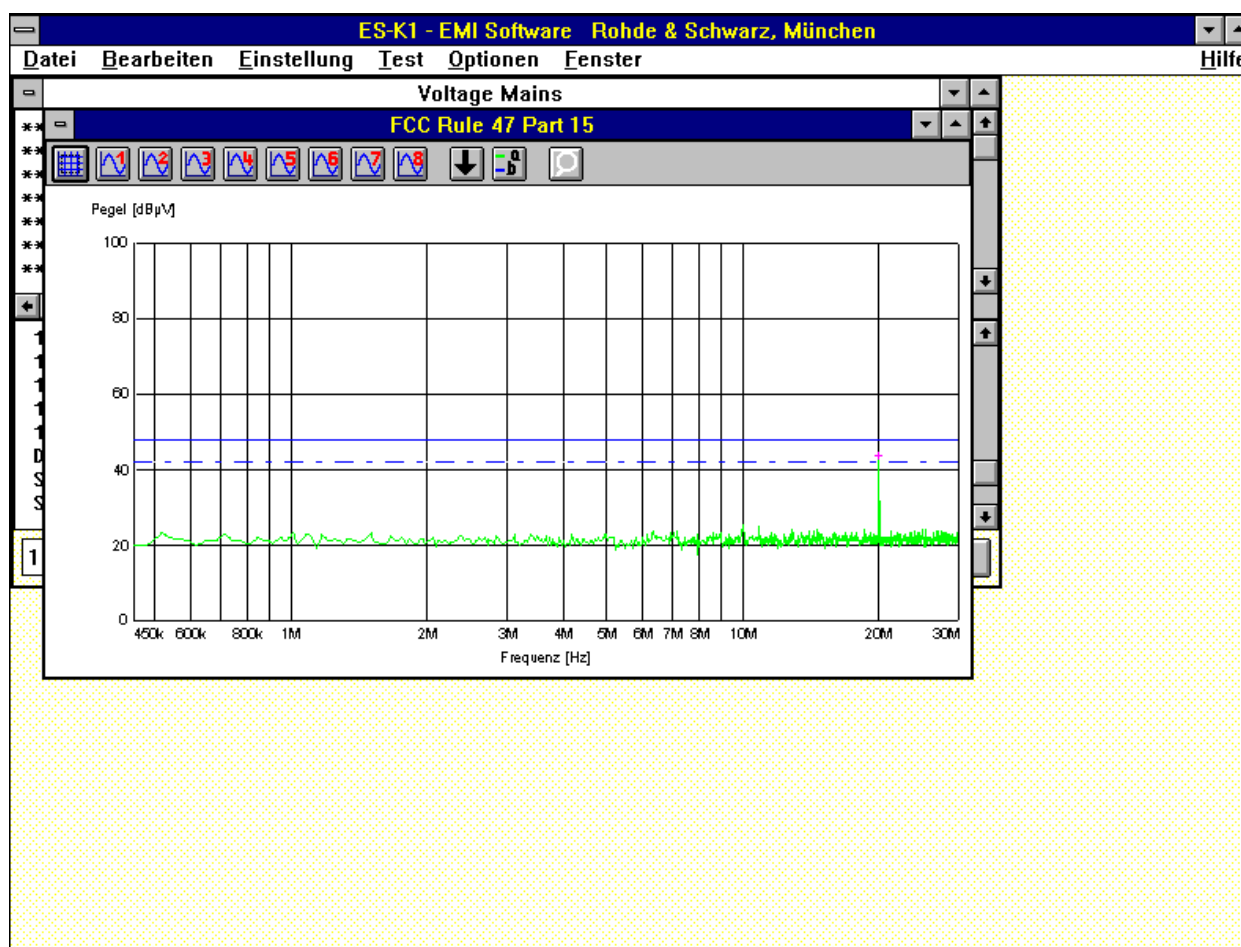
Ambient temperature : 23 °C

Relative humidity : 30 %

CONDUCTED EMISSIONS

FCC Rule 47 Part 15

measured at the DC-Port



Technical specification : 15.207 (Revised as of October 1, 1991)

Limit

0.45 to 30 MHz	250 µV / 47.96 dBµV
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REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

52 - 63

Equipment under test : AM 3000

Ambient temperature : 23 °C

Relative humidity : 30%

TRANSMITTER SPURIOUS RADIATION

§15.249 (c) / § 15.209

Radiated

measured with external antenna AD 3000

SPURIOUS EMISSIONS LEVEL (µV/m)								
2401.920 MHz			2442.528 MHz			2482.272 MHz		
f (MHz)	Detector	Level (µV/m)	f (MHz)	Detector	Level (µV/m)	f (MHz)	Detector	Level (µV/m)
< 1000 MHz no peak found								
4803.8	Average	358.9	4885.1	Average	489.8	4964.8	Average	358.9
7205.8	Average	223.9	7327.6	Average	266.1	7446.8	Average	160.3
Measurement uncertainty			±3 dB					

Radiated

measured with internal antenna

SPURIOUS EMISSIONS LEVEL (µV/m)								
2401.920 MHz			2442.528 MHz			2482.272 MHz		
f (MHz)	Detector	Level (µV/m)	f (MHz)	Detector	Level (µV/m)	f (MHz)	Detector	Level (µV/m)
< 1000 MHz no peak found								
4803.8	Average	184.1	4885.1	Average	242.7	4964.8	Average	160.3
7205.8	Average	192.7	7327.6	Average	149.6	7446.8	Average	197.2
Measurement uncertainty			±3 dB					

Measurement distance see table

Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

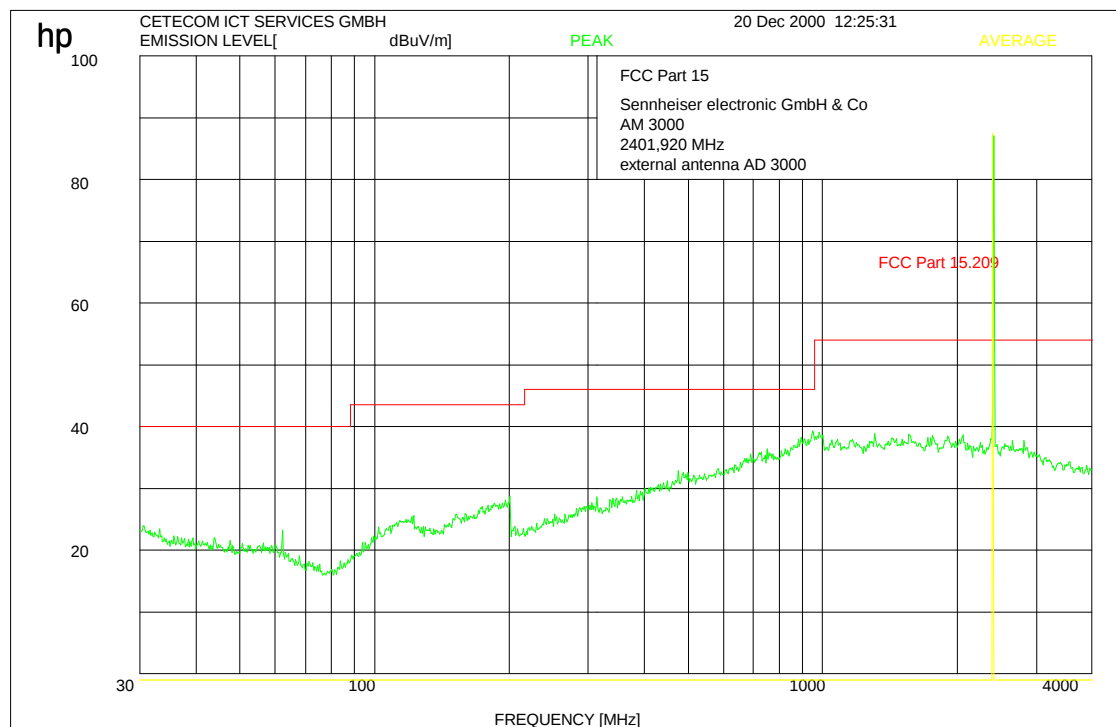
Equipment under test : AM 3000

Ambient temperature : 23 °C

Relative humidity : 30 %

TRANSMITTER SPURIOUS RADIATION

§ 15.209



Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

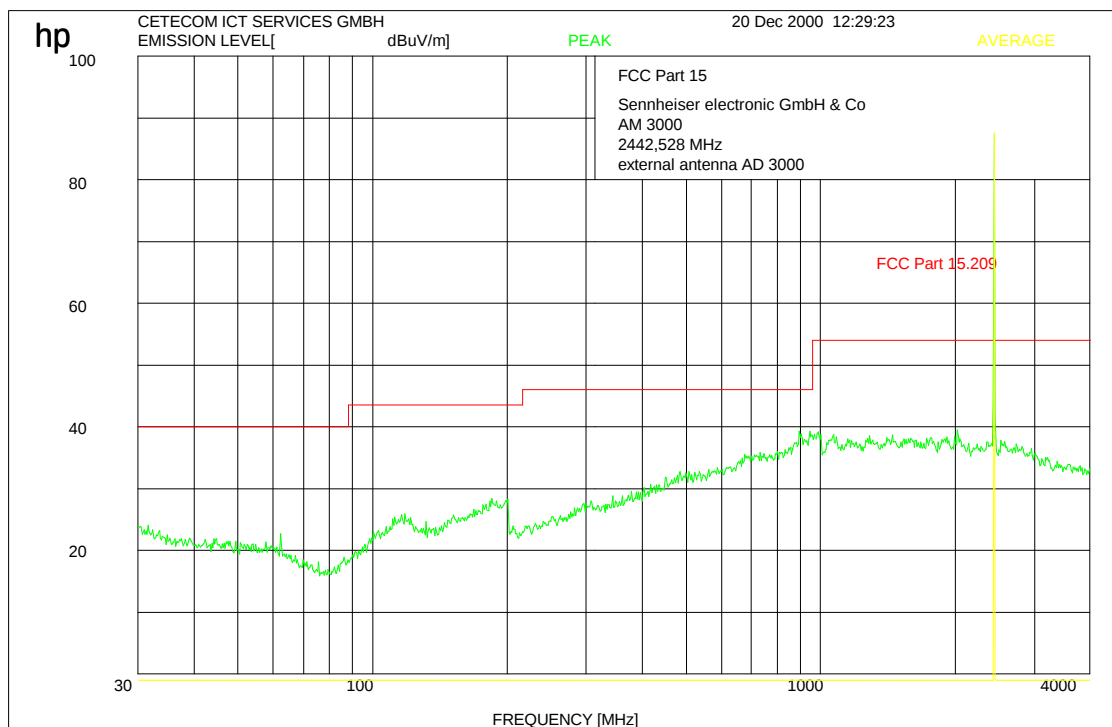
Equipment under test : AM 3000

Ambient temperature : 23 °C

Relative humidity : 30 %

TRANSMITTER SPURIOUS RADIATION

§ 15.209



Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

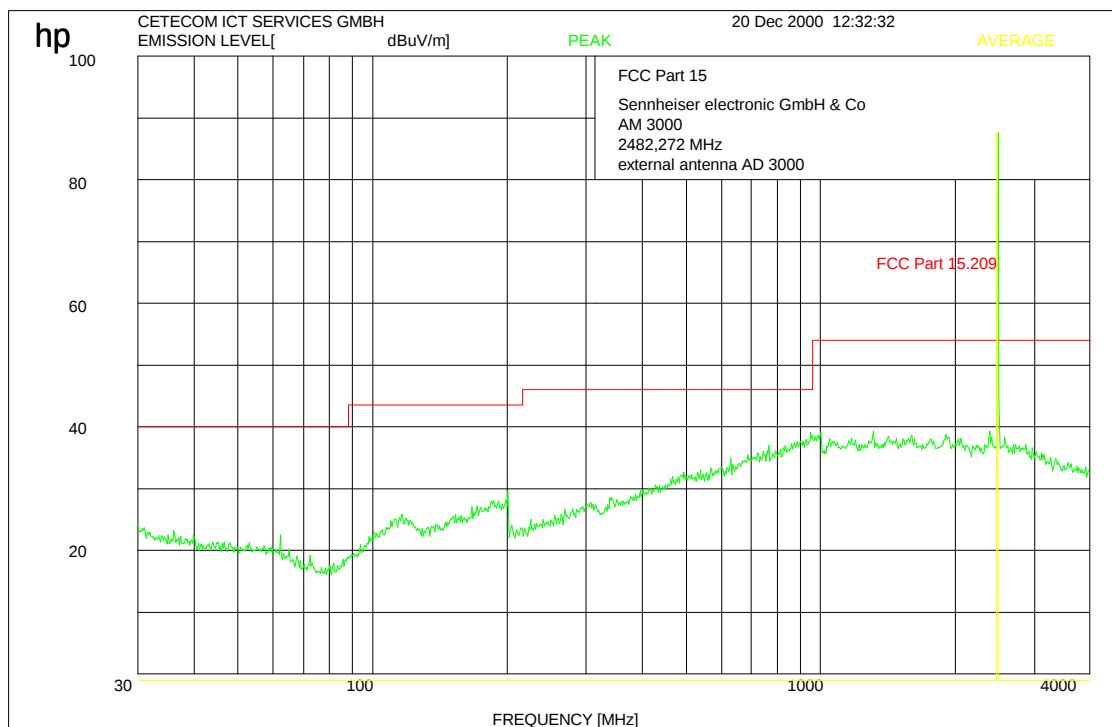
Equipment under test : AM 3000

Ambient temperature : 23 °C

Relative humidity : 30 %

TRANSMITTER SPURIOUS RADIATION

§ 15.209



Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

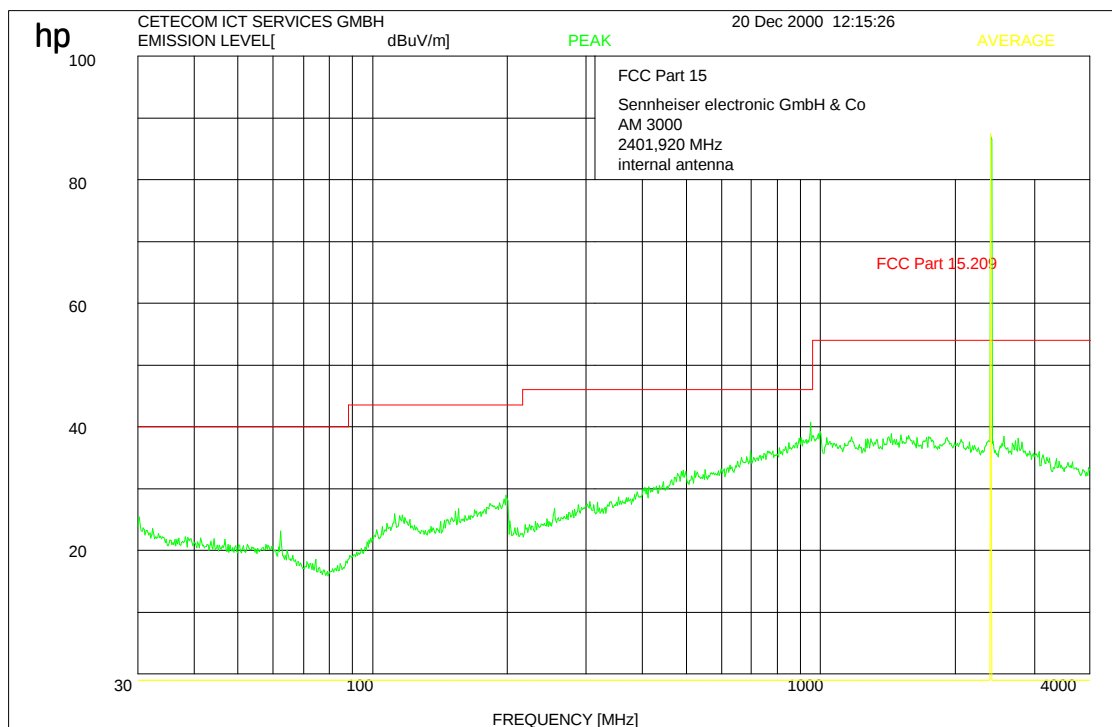
Equipment under test : AM 3000

Ambient temperature : 23 °C

Relative humidity : 30 %

TRANSMITTER SPURIOUS RADIATION

§ 15.209



Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

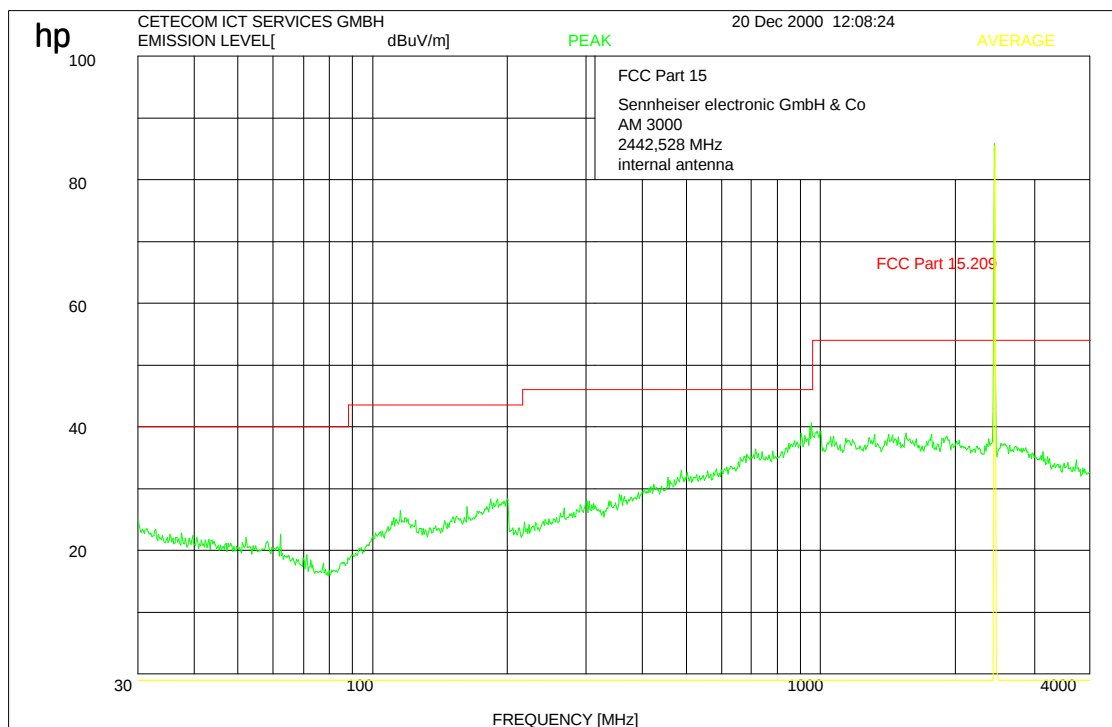
Equipment under test : AM 3000

Ambient temperature : 23 °C

Relative humidity : 30 %

TRANSMITTER SPURIOUS RADIATION

§ 15.209



Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

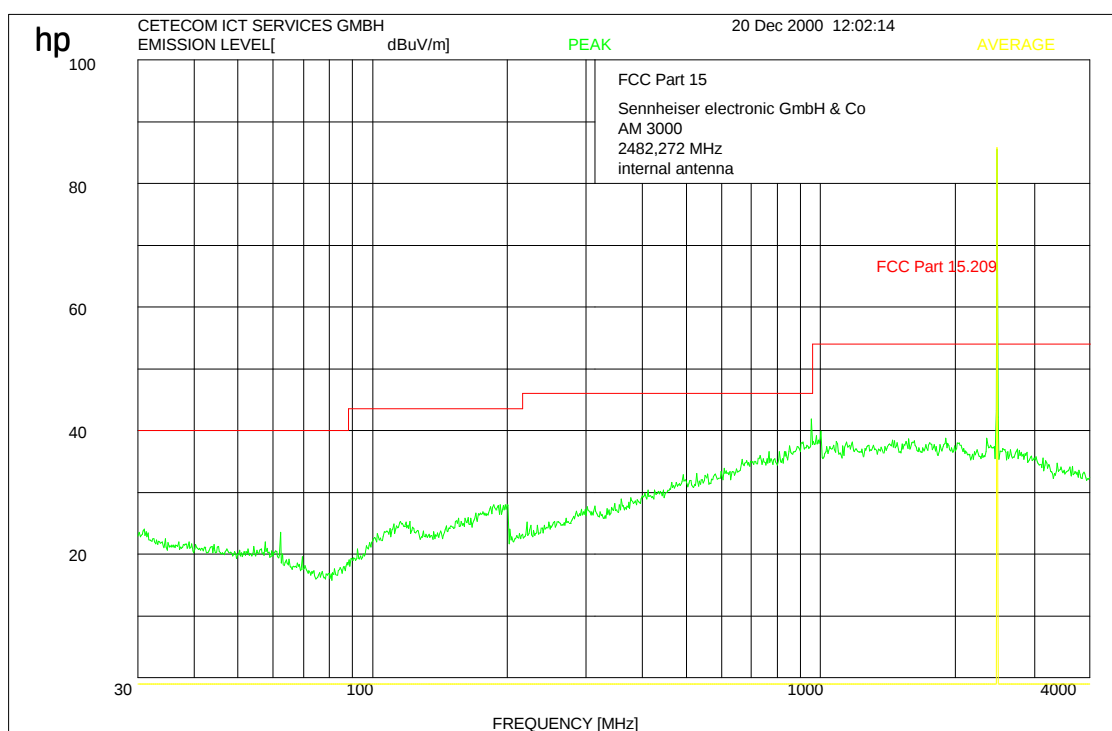
Equipment under test : AM 3000

Ambient temperature : 23 °C

Relative humidity : 30%

TRANSMITTER SPURIOUS RADIATION

§ 15.209



Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

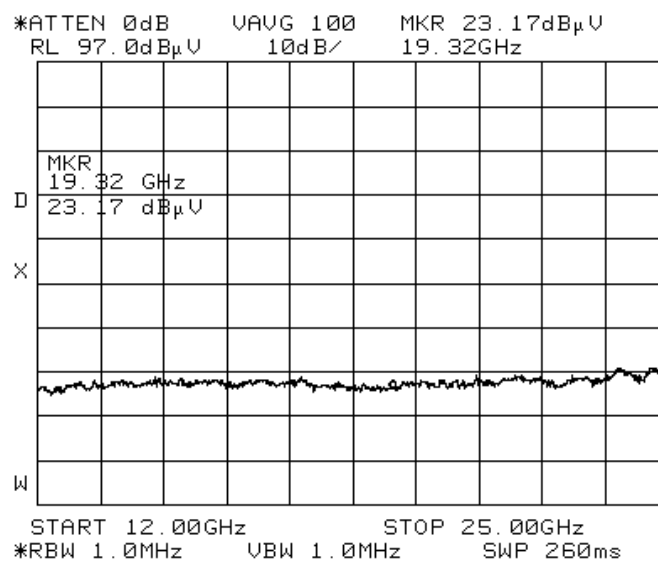
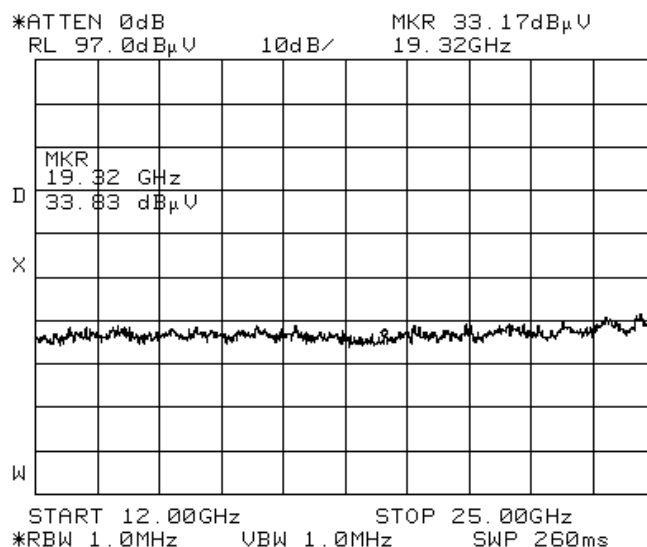
Equipment under test : AM 3000

Ambient temperature : 23 °C

Relative humidity : 30%

TRANSMITTER SPURIOUS RADIATION (all channels)

§ 15.209



Measurements were made up to 25 GHz with a Pre-amplifier to reduce noise.

Limits

SUBCLAUSE § 15.209

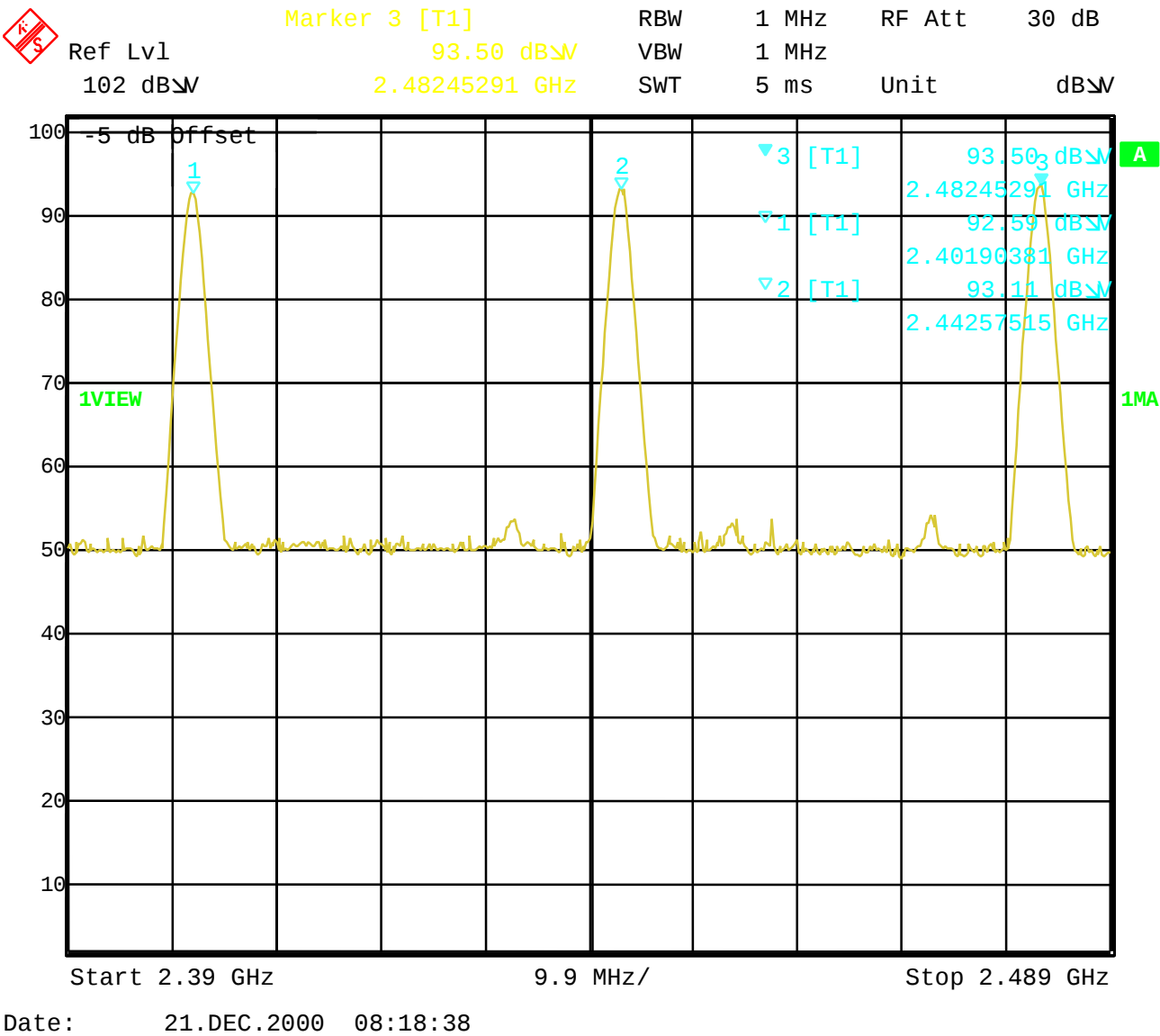
Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
216 - 960	200 / 46 dBμV/m	3
above 960	500 / 54 dBμV/m	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

Equipment under test : AM 3000
Ambient temperature : 23 °C
Relative humidity : 30%

TRANSMITTER OUTPUT SPECTRUM



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
64

Equipment under test : AM 3000

Ambient temperature : 23 °C

Relative humidity : 30 %

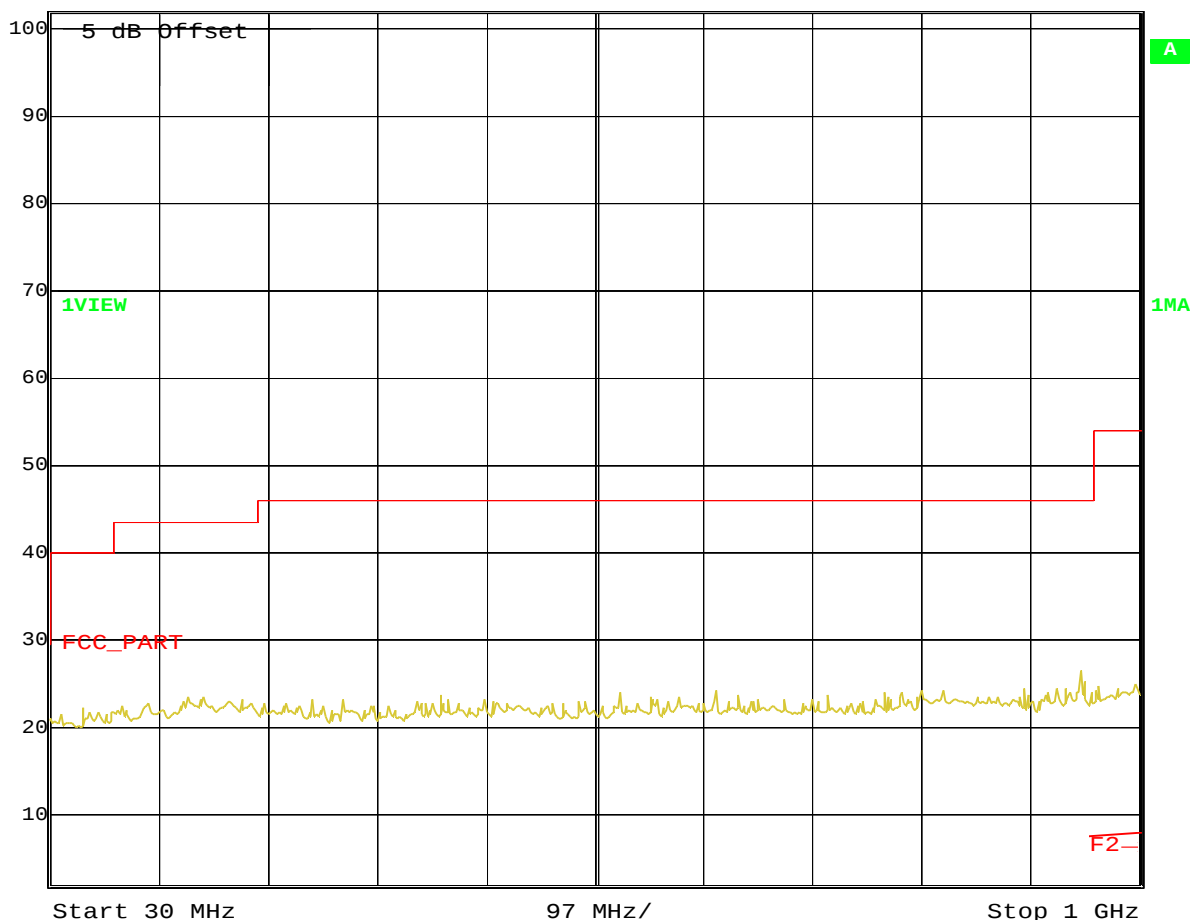
SPURIOUS EMISSIONS - CONDUCTED – ALL CHANNELS

§ 15.209



Ref Lvl
102 dBµV

RBW 100 kHz RF Att 0 dB
VBW 100 kHz Mixer -20 dBm
SWT 245 ms Unit dBµV



Date: 21.DEC.2000 08:59:38

Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

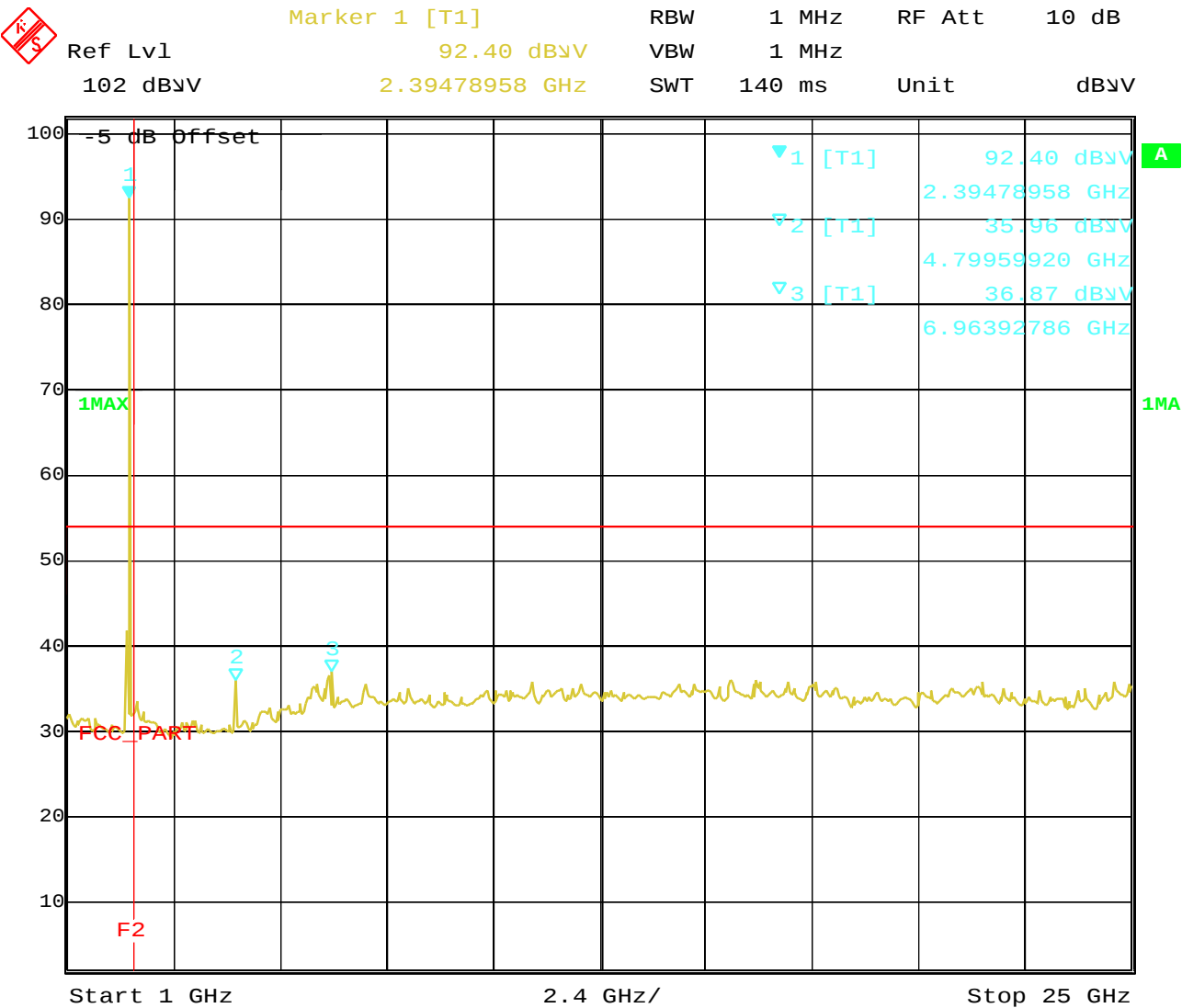
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

Equipment under test : AM 3000
Ambient temperature : 23 °C
Relative humidity : 30%
SPURIOUS EMISSIONS - CONDUCTED

§ 15.209

2401.920 MHz (PEAK)



Date: 21.DEC.2000 09:09:15

Limits

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

Equipment under test : AM 3000

Ambient temperature : 23 °C

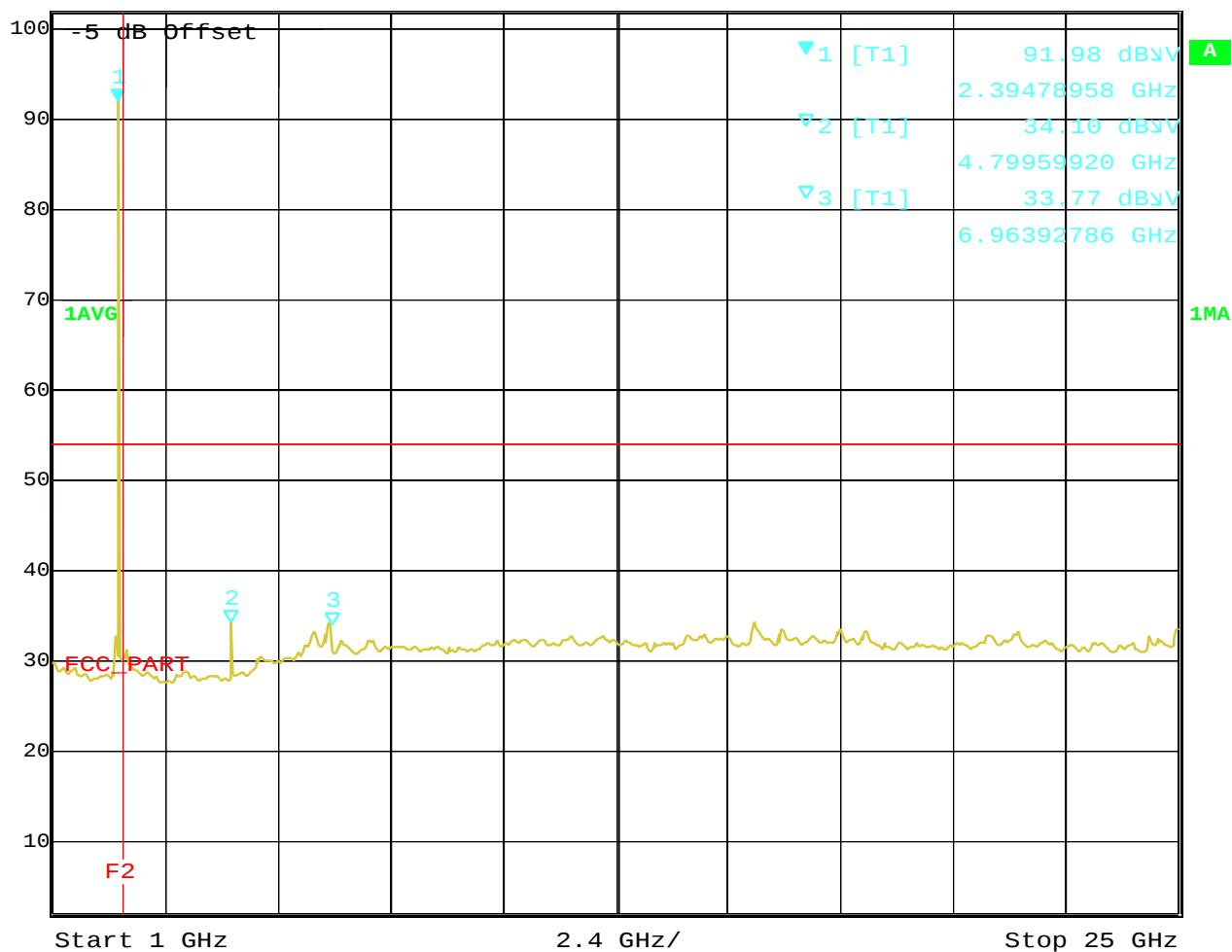
Relative humidity : 30%

SPURIOUS EMISSIONS - CONDUCTED

§ 15.209

2401.920 MHz (AVERAGE)


 Ref Lvl 102 dBµV
 Marker 1 [T1] 91.98 dBµV
 2.39478958 GHz
 RBW 1 MHz RF Att 10 dB
 VBW 1 MHz
 SWT 140 ms Unit dBµV



Date: 21.DEC.2000 09:09:45

Limits

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

Equipment under test : AM 3000

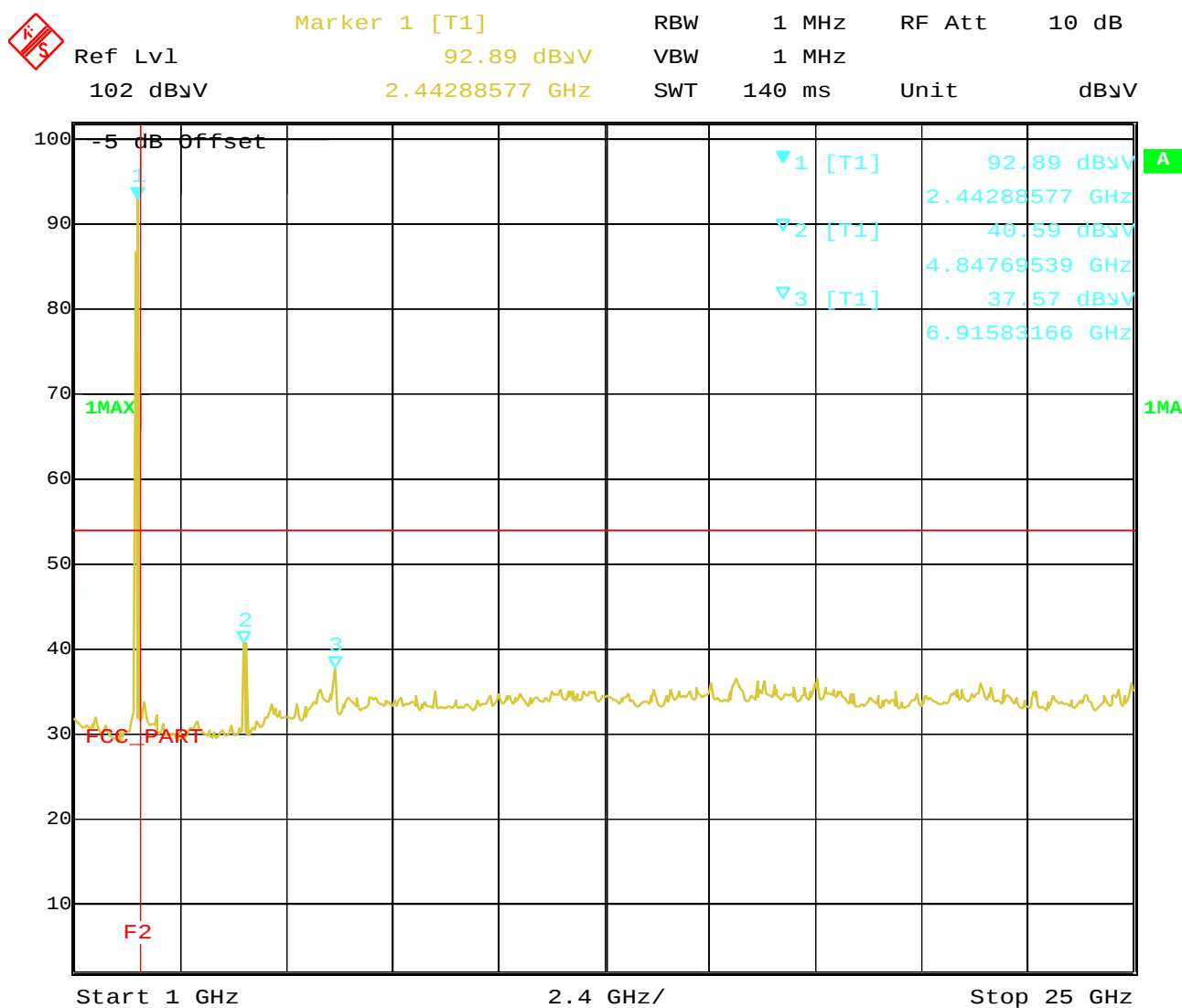
Ambient temperature : 23 °C

Relative humidity : 30 %

SPURIOUS EMISSIONS - CONDUCTED

§ 15.209

2442,528 MHz (PEAK)



Date: 21.DEC.2000 09:08:14

Limits

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
above 960	500	3

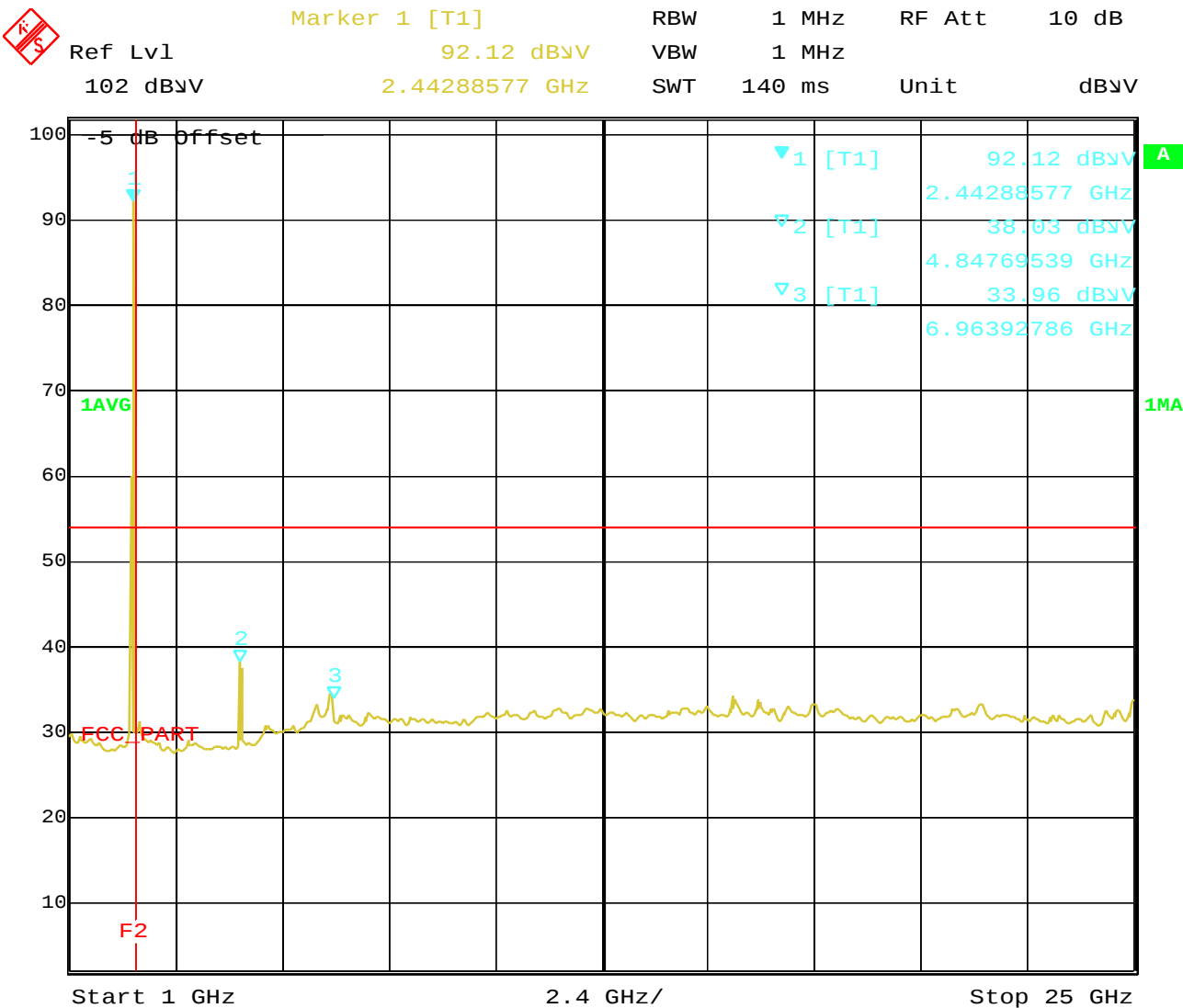
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

Equipment under test : AM 3000
Ambient temperature : 23 °C
Relative humidity : 30%

SPURIOUS EMISSIONS - CONDUCTED § 15.209

2442,528 MHz (AVERAGE)



Date: 21.DEC.2000 09:07:23

Limits

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

Equipment under test : AM 3000
Ambient temperature : 23 °C
Relative humidity : 30%

SPURIOUS EMISSIONS - CONDUCTED § 15.209

2482,272 MHz (Peak)

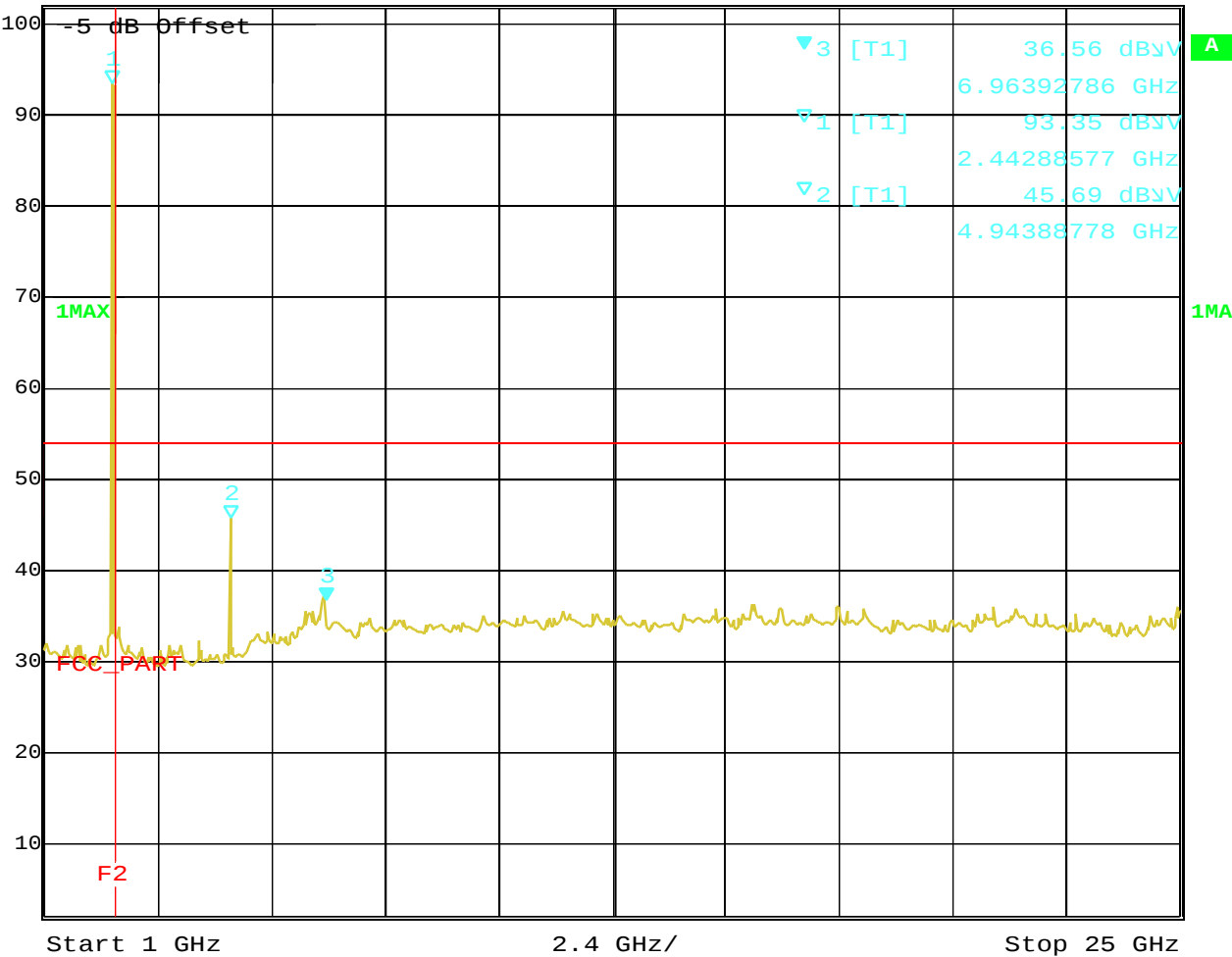


Marker 3 [T1]

RBW 1 MHz RF Att 10 dB

Ref Lvl 36.56 dBµV VBW 1 MHz

102 dBµV 6.96392786 GHz SWT 140 ms Unit dBµV



Date: 21.DEC.2000 09:05:11

Limits

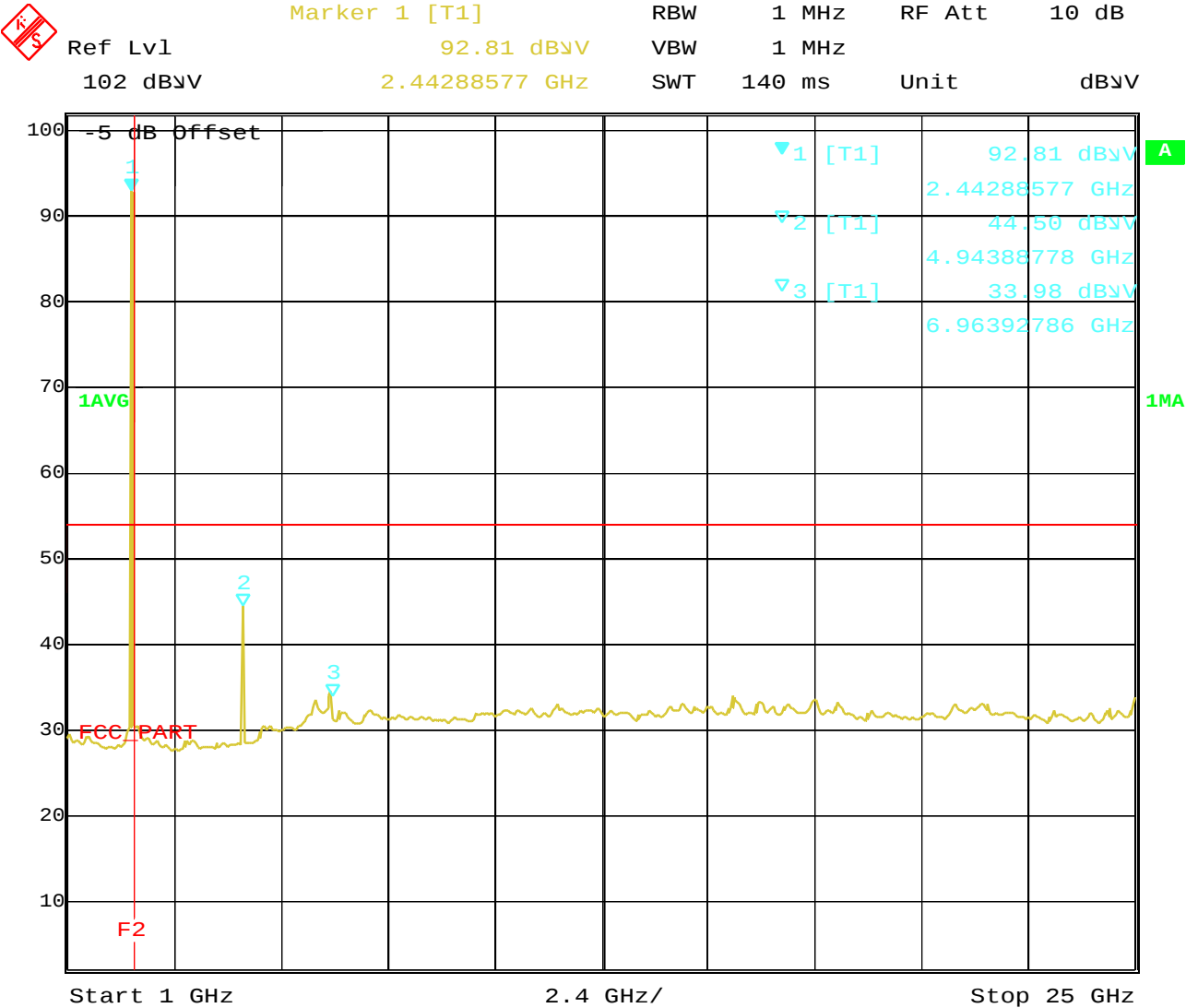
Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

Equipment under test : AM 3000
Ambient temperature : 23 °C
Relative humidity : 30%

SPURIOUS EMISSIONS - CONDUCTED § 15.209

2482,272 MHz (AVERAGE)



Date: 21.DEC.2000 09:06:05

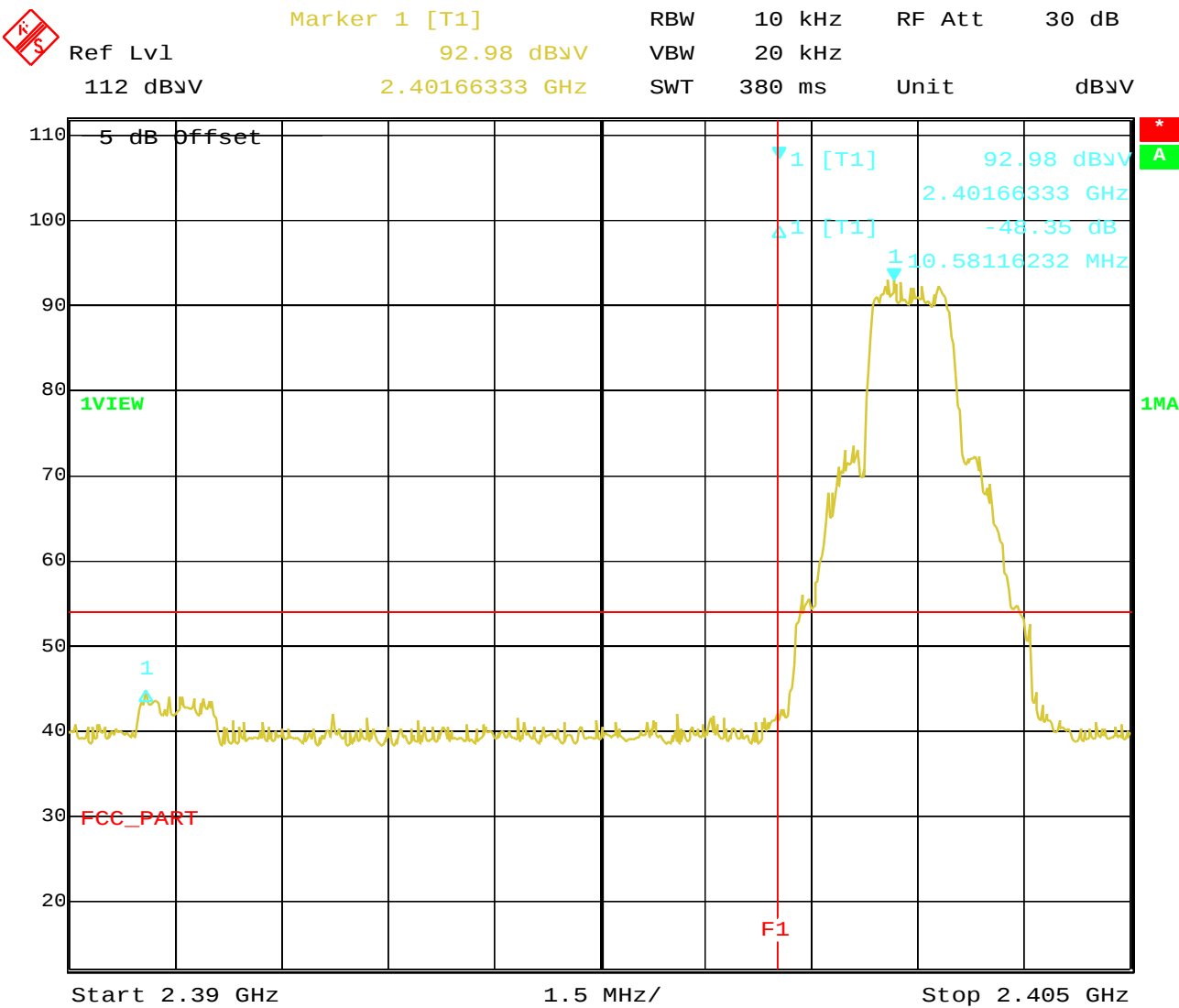
Limits

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

Equipment under test : AM 3000
Ambient temperature : 23 °C
Relative humidity : 30%

BAND EDGE COMPLIANCE



Date: 21.DEC.2000 08:27:06

F1: 2400.0 MHz

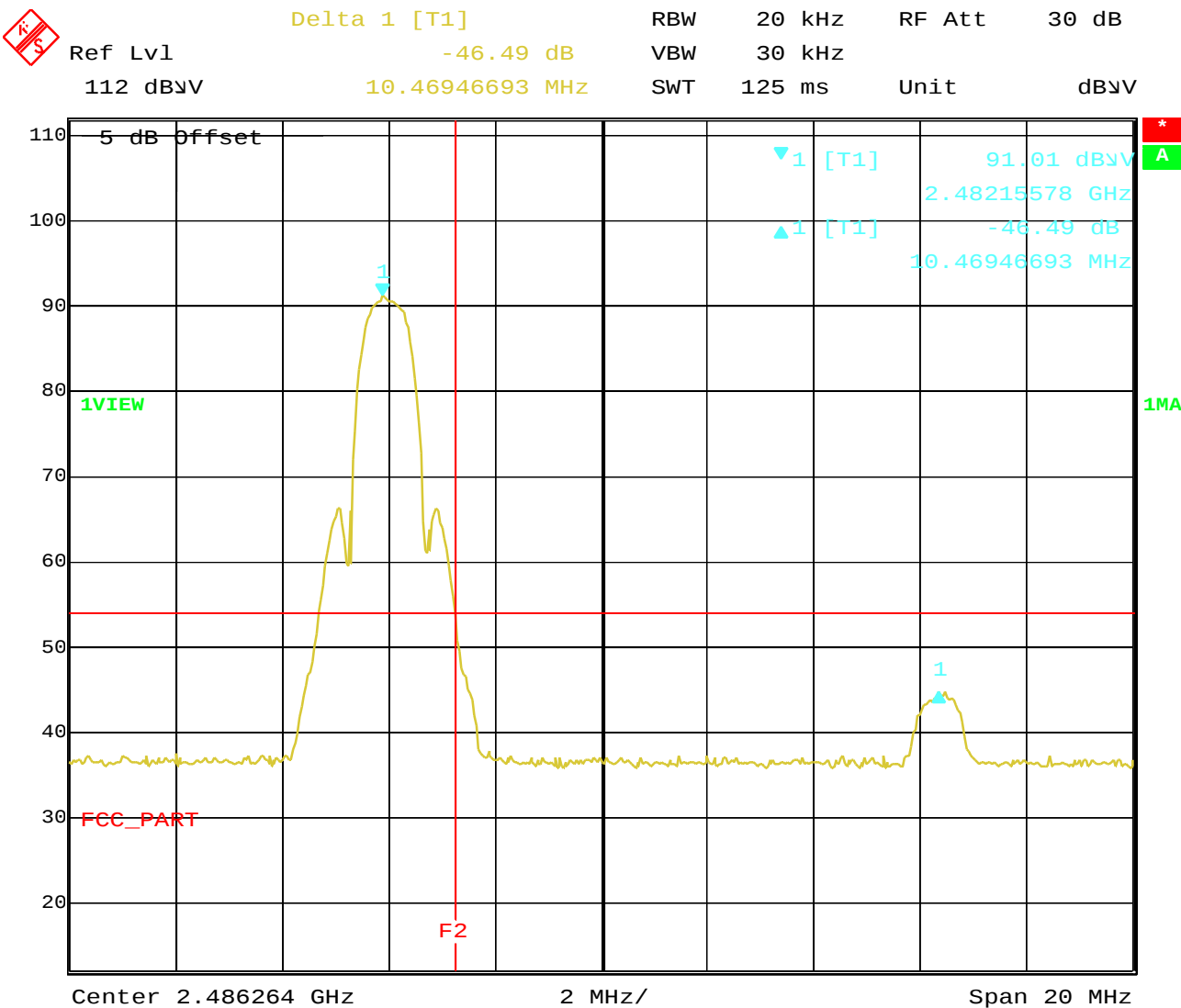
Limits

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
above 960	500 / 54 dBμV/m	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

Equipment under test : AM 3000
Ambient temperature : 23 °C
Relative humidity : 30%

BAND EDGE COMPLIANCE / RESTRICTED BAND



Date: 21.DEC.2000 08:53:46

F2: 2483.5 MHz

Limits

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
above 960	500 / 54 dBμV/m	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
01	Spectrum Analyzer	8566 A	Hewlett-Packard	1925A00257
02	Analyzer Display	8566 A	Hewlett-Packard	1925A00860
03	Oscilloscope	7633	Tektronix	230054
04	Radio Analyzer	CMTA 54	Rohde & Schwarz	894 043/010
05	System Power Supply	6038 A	Hewlett-Packard	2848A07027
06	Signal Generator	8111 A	Hewlett-Packard	2215G00867
07	Signal Generator	8662 A	Hewlett-Packard	2224A01012
08	Funktionsgenerator	AFGU	Rohde & Schwarz	862 480/032
09	Regeltrenntrafo	MPL	Erfi	91350
10	Netznachbildung	NNLA 8120	Schwarzbeck	8120331
11	Relais-Matrix	PSU	Rohde & Schwarz	893 285/020
12	Power-Meter	436 A	Hewlett-Packard	2101A12378
13	Power-Sensor	8484 A	Hewlett-Packard	2237A10156
14	Power-Sensor	8482 A	Hewlett-Packard	2237A00616
15	Modulationsmeter	9008	Racal-Dana	2647
16	Frequenzzähler	5340 A	Hewlett-Packard	1532A03899
17	Absorber Schirmkabine	---	MWB	87400/002
18	Spectrum Analyzer	85660 B	Hewlett-Packard	2747A05306
19	Analyzer Display	85662 A	Hewlett-Packard	2816A16541
20	Quasi Peak Adapter	85650 A	Hewlett-Packard	2811A01131
21	RF-Preselector	85685 A	Hewlett-Packard	2833A00768
22	Biconical Antenne	3104	Emco	3758
23	Log. Per. Antenne	3146	Emco	2130
24	Double Ridge Horn	3115	Emco	3088
25	EMI-Testreceiver	ESAI	Rohde & Schwarz	863 180/013
26	EMI-Analyzer-Display	ESAI-D	Rohde & Schwarz	862 771/008
27	Biconical Antenne	HK 116	Rohde & Schwarz	888 945/013
28	Log. Per. Antenne	HL 223	Rohde & Schwarz	825 584/002
29	Relais-Switch-Unit	RSU	Rohde & Schwarz	375 339/002
30	Highpass	HM985955	FSY Microwave	001
31	Amplifier	P42-GA29	Tron-Tech	B 23602
32	Absorber Schirmkabine		Frankonia	
33	Steuerrechner	PSM 7	Rohde & Schwarz	834 621/004
34	EMI Test Receiver	ESMI	Rohde & Schwarz	827 063/010
35	EMI Test Receiver	Display	Rohde & Schwarz	829 808/010

TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
36	Controler	HD 100	Deisel	100/322/93
37	Relais Matrix	PSN	Rohde & Schwarz	829 065/003
38	Control Unit	GB 016 A2	Rohde & Schwarz	344 122/008
39	Relais Switch Unit	RSU	Rohde & Schwarz	316 790/001
40	Power Supply	6032A	Hewlett Packard	2846A04063
41	Spektrum Monitor	EZM	Rohde & Schwarz	883 720/006
42	Meßempfänger	ESH 3	Rohde & Schwarz	890 174/002
43	Meßempfänger	ESVP	Rohde & Schwarz	891 752/005
44	Biconi Ant. 20-300MHz	HK 116	Rohde & Schwarz	833 162/011
45	Logper Ant. 0.3-1 GHz	HL 223	Rohde & Schwarz	832 914/010
46	Amplifier 0.1-4 GHz	AFS4	Miteq Inc.	206461
47	Logper Ant. 1-18 GHz	HL 024 A2	Rohde & Schwarz	342 662/002
48	Polarisationsnetzwerk	HL 024 Z1	Rohde & Schwarz	341 570/002
49	Double Ridge G Horn Antenne 1-26.5 GHz	3115	EMCO	9107-3696
50	Microw. Sys. Amplifier 0.5- 26.5 GHz	8317A	Hewlett Packard	3123A00105
51	Audio Analyzer	UPD	Rohde & Schwarz	1030.7500.04
52	Steuerrechner	PSM 7	Rohde & Schwarz	883 086/026
53	DC V-Netzwerk	ESH3-Z6	Rohde & Schwarz	861 406/005
54	DC V-Netzwerk	ESH3-Z6	Rohde & Schwarz	893 689/012
55	AC 2 Phasen V-Netzwerk	ESH3-Z5	Rohde & Schwarz	861 189/014
56	AC 2 Phasen V-Netzwerk	ESH3-Z5	Rohde & Schwarz	894 981/019
57	AC-3 Phasen V-Netzwerk	ESH2-Z5	Rohde & Schwarz	882 394/007
58	Stromversorgung	6032A	Rohde & Schwarz	2933A05441
59	HF-Test Empfänger	ESVP.52	Rohde & Schwarz	881 487/021
60	Spectrum Monitor	EZM	Rohde & Schwarz	883 086/026
61	HF-Test Empfänger	ESH3	Rohde & Schwarz	881 515/002
62	Relais Matrix	PSU	Rohde & Schwarz	882 943/029
63	Relais Matrix	PSU	Rohde & Schwarz	828 628/007
64	Spectrum Analyzer	FSIQ 26	Rohde & Schwarz	119.6001.27
67				
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**AD 3000 (external antenna)
PHOTOGRAPHS OF THE EQUIPMENT**

Photograph no.: 8

