

CETECOM ICT Services GmbH

Radio Satellite Communication

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RSC14

issue test report consist of 74 Pages

Page 1 (74)



TTI-P-G166/98

Accredited Bluetooth™ Test Facility (BQTF)

Test report no.:5_3682-A/00

FCC Part 2, 15, 90

MC9600 G2

CETECOM – ICT Services GmbH

Untertürkheimerstr. 6-10

66117 Saarbrücken, Germany

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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

Germany

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Telefax : + 49 681 598 - 9075

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Internet : www.cetecom.de

Accredited testing laboratory

DAR-registration number : TTI-P-G 166/98-20

Accredited Bluetooth™ Test Facility (BQTF)

[BLUETOOTH](#) is a trademark owned by Bluetooth SIG, Inc. and licensed to CETECOM

1.3 Details of applicant

Name : EADS Defence and Security Networks
Street : Rue J.P Timbaud-MS01, BP 26
City : F78392 Bois d'Arcy Cedex
Country : France
Telephone : +33 1 34 60 88 94
Telefax : +33 1 34 60 78 98
Contact : Yann Lebail
Telephone : +33 1 34 60 88 94

1.4 Application details

Date of receipt of application : 12.06.01
Date of receipt of test item : 11.07.01
Date of test : 16.-20.07.01

1.5 Test item

Type of equipment : **PMR Radio Base Station**
Type designation : **MC9600 BS8 G2**
Manufacturer : applicant
Street :
City :
Country :
Serial number : see photographs
Additional informations: :
Frequency : 440 - 490 MHz
Type of modulation : 12K0F1D
Number of channels : 4000
Antenna : N-socket
Power supply : 48V DC
Output power : 19.45 W
Type of equipment : Temperature range : -20°C - +50°C

1.6 Test standards: **FCC Part 2, 15, 90**

2 Technical test

2.1 Summary of test results

The radiated measurements were performed vertically and horizontal

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

Final verdict : PASS

Technical responsibility for area of testing :

26.07.01 RSC 8411 Berg M.



| Date | Section | Name | Signature |
|------|---------|------|-----------|
|------|---------|------|-----------|

Technical responsibility for area of testing :

26.07.01 RSC8414 Ames H.



| Date | Section | Name | Signature |
|------|---------|------|-----------|
|------|---------|------|-----------|

2.2 Testreport

TEST REPORT

Testreport no. : 5_3682-A/00

TEST REPORT REFERENCE

LIST OF MEASUREMENTS

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Equipment under test : MC9600 BS8 G2
Ambient temperature : 23° C
Relative humidity : 43%

RF Power Vs. DC Power Input

SUBCLAUSE § 2.993

| Power (W) | | | | | |
|-------------------------|---------|---------|---------|---------|---------|
| Frequency | 440 MHz | 450 MHz | 460 MHz | 470 MHz | 490 MHz |
| Low power | 59.52 | 61.44 | 62.40 | 63.84 | 63.36 |
| High power | 195.36 | 199.68 | 195.84 | 210.24 | 211.68 |
| Measurement uncertainty | ± 3 % | | | | |


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

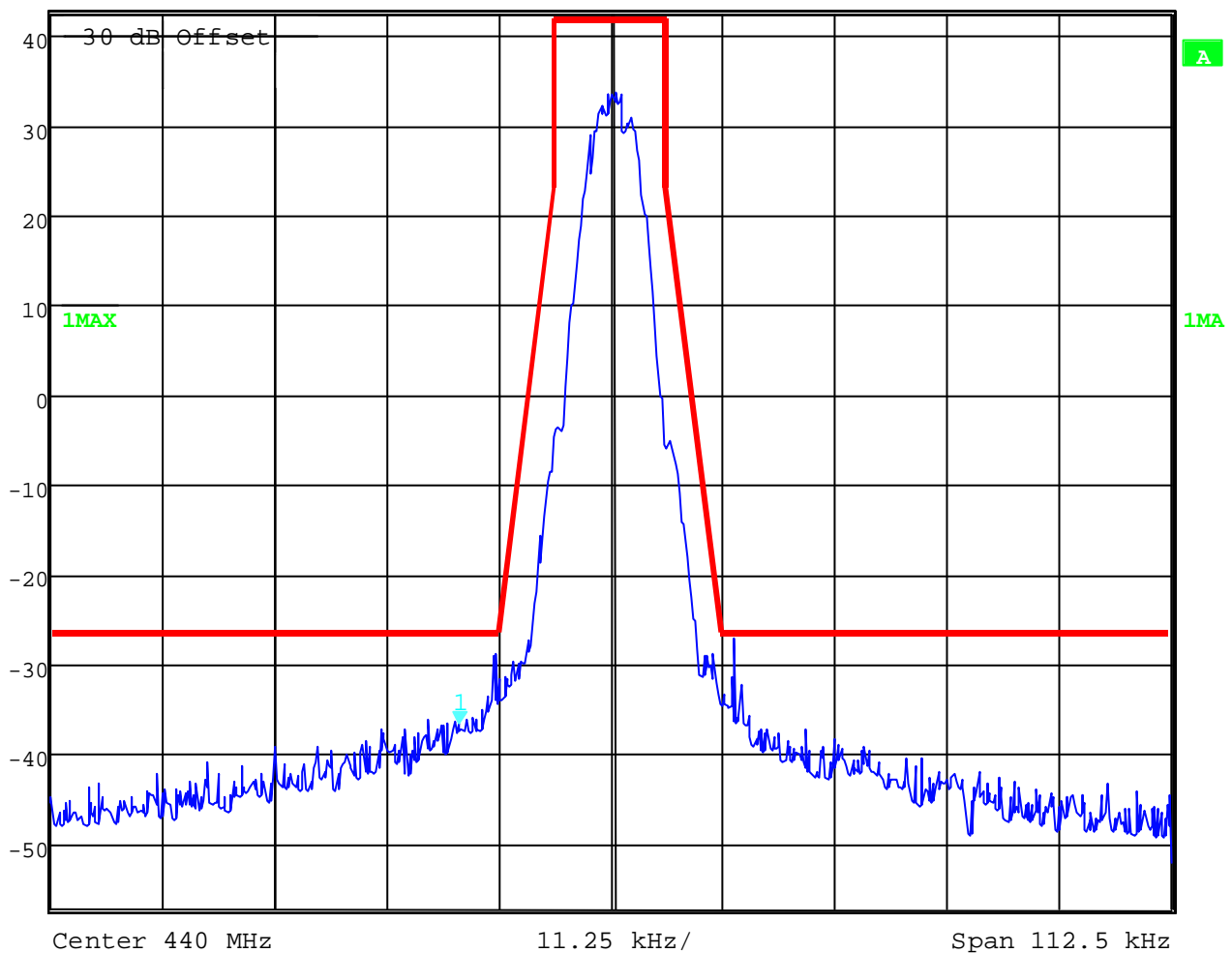
-

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

OCCUPIED BANDWIDTH §2.989

440 MHz (max. power)


 Marker 1 [T1] RBW 100 Hz RF Att 40 dB
 Ref Lvl -36.73 dBm VBW 100 Hz
 42.7 dBm 439.98486974 MHz SWT 58 s Unit dBm



Date: 16.JUL.2001 10:56:20

measured with normal Test modulation : Pseudo random data stream max. 8kBit/s

LIMITS

SUBCLAUSE § 90.210

Emission Mask D – 12.5 kHz channel bandwidth

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

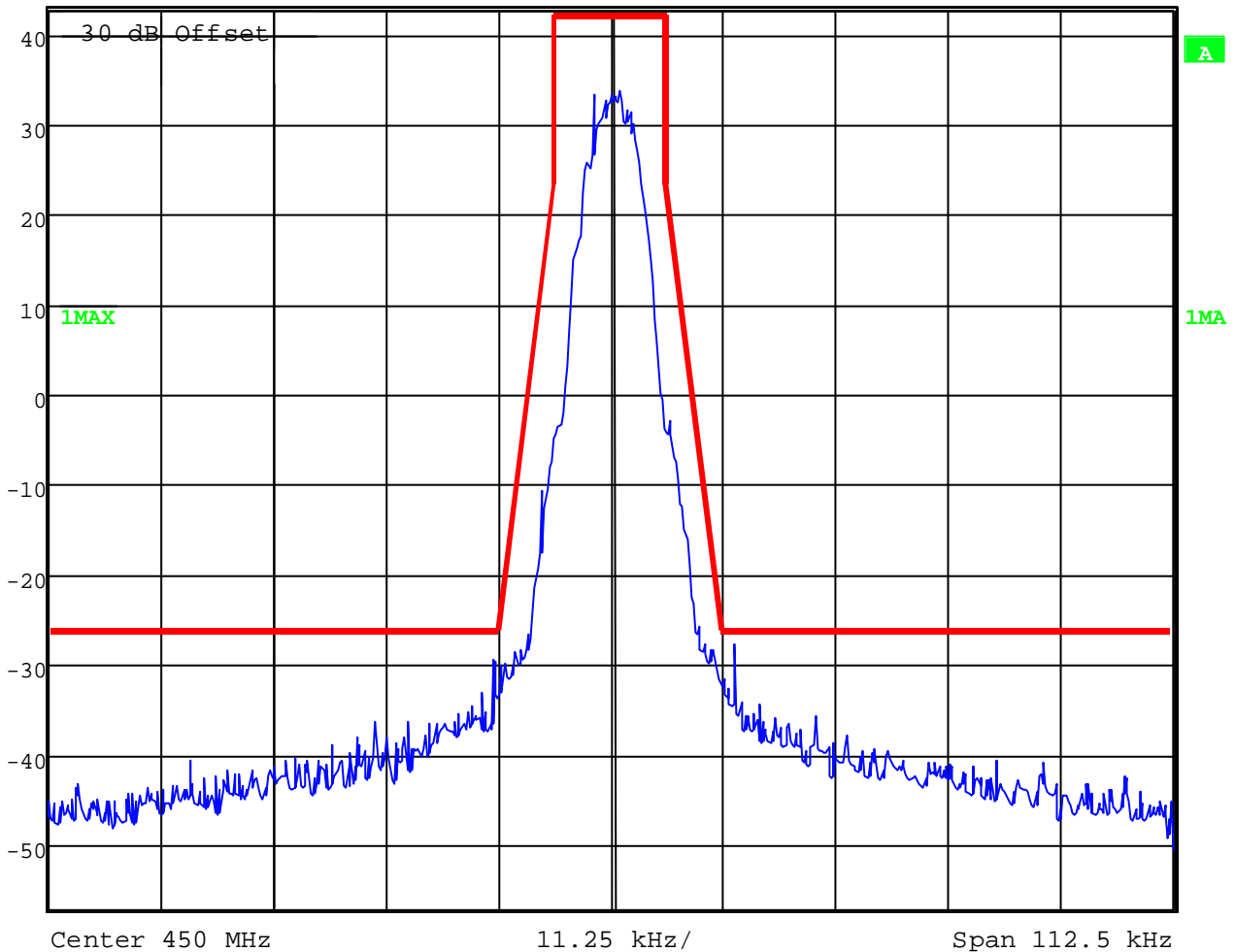
OCCUPIED BANDWIDTH
 450 MHz (max. power)

§2.989



Ref Lvl
 42.9 dBm

RBW 100 Hz RF Att 40 dB
 VBW 100 Hz
 SWT 58 s Unit dBm



Date: 16.JUL.2001 11:05:11

measured with normal Test modulation : Pseudo random data stream max. 8kBit/s

LIMITS

SUBCLAUSE § 90.210

Emission Mask D – 12.5 kHz channel bandwidth

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

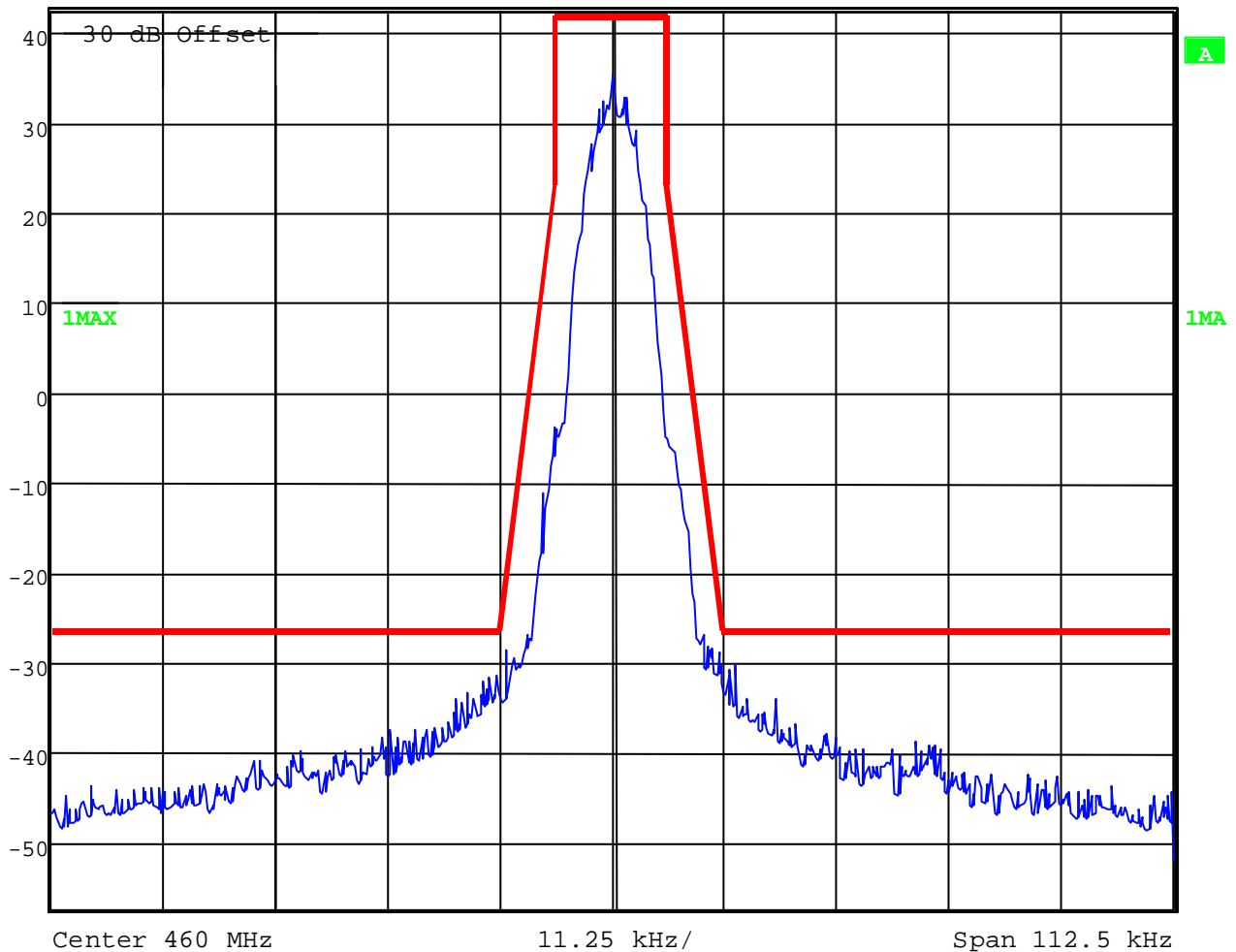
OCCUPIED BANDWIDTH
 460 MHz (max. power)

§2.989



Ref Lvl
 42.8 dBm

RBW 100 Hz RF Att 40 dB
 VBW 100 Hz
 SWT 58 s Unit dBm



Date: 16.JUL.2001 11:09:24

measured with normal Test modulation : Pseudo random data stream max. 8kBit/s

LIMITS

SUBCLAUSE § 90.210

Emission Mask D – 12.5 kHz channel bandwidth

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

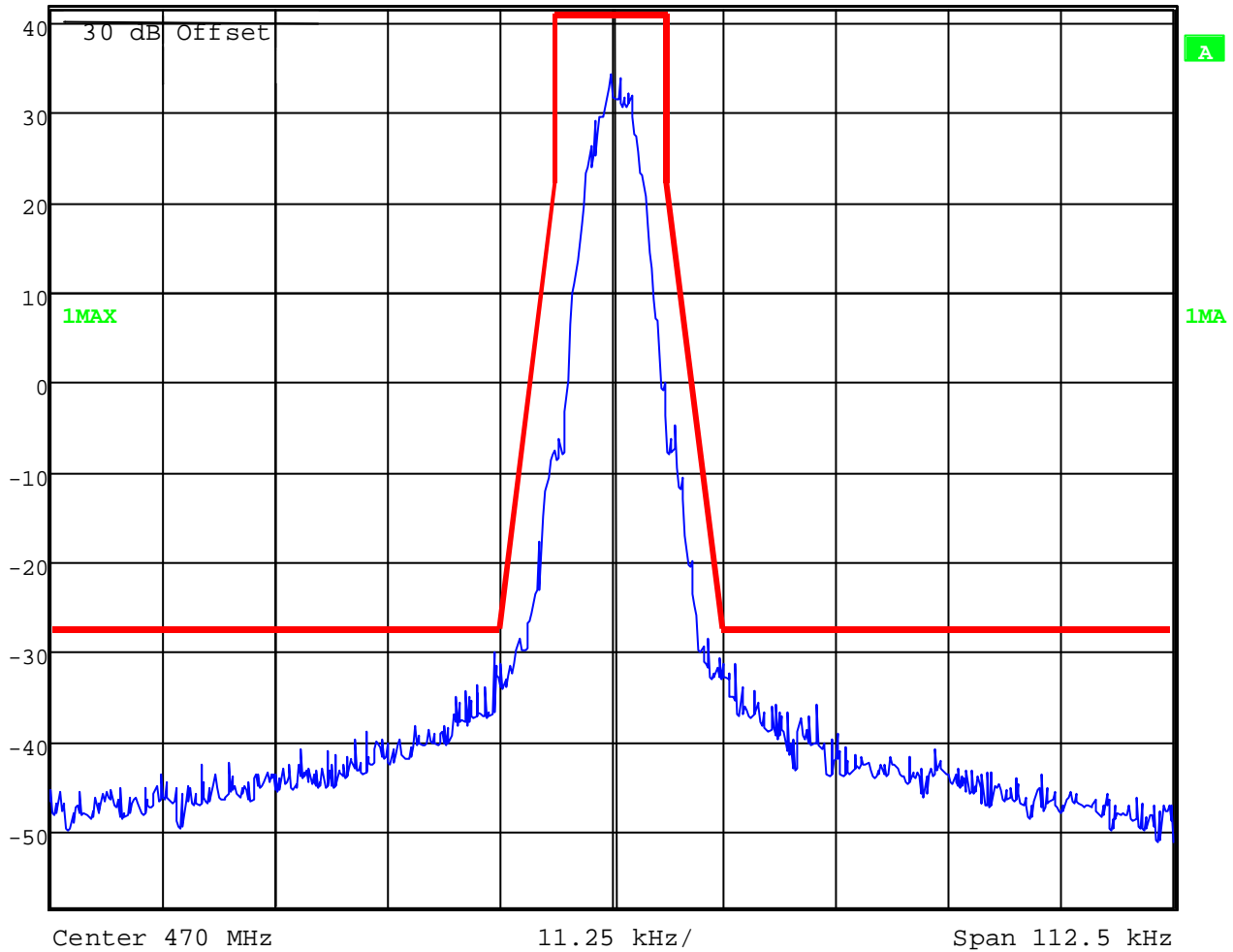
OCCUPIED BANDWIDTH
 470 MHz (max. power)

§2.989



Ref Lvl
 41.8 dBm

RBW 100 Hz RF Att 40 dB
 VBW 100 Hz
 SWT 58 s Unit dBm



Date: 16.JUL.2001 11:13:32

measured with normal Test modulation : Pseudo random data stream max. 8kBit/s

LIMITS

SUBCLAUSE § 90.210

Emission Mask D – 12.5 kHz channel bandwidth

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

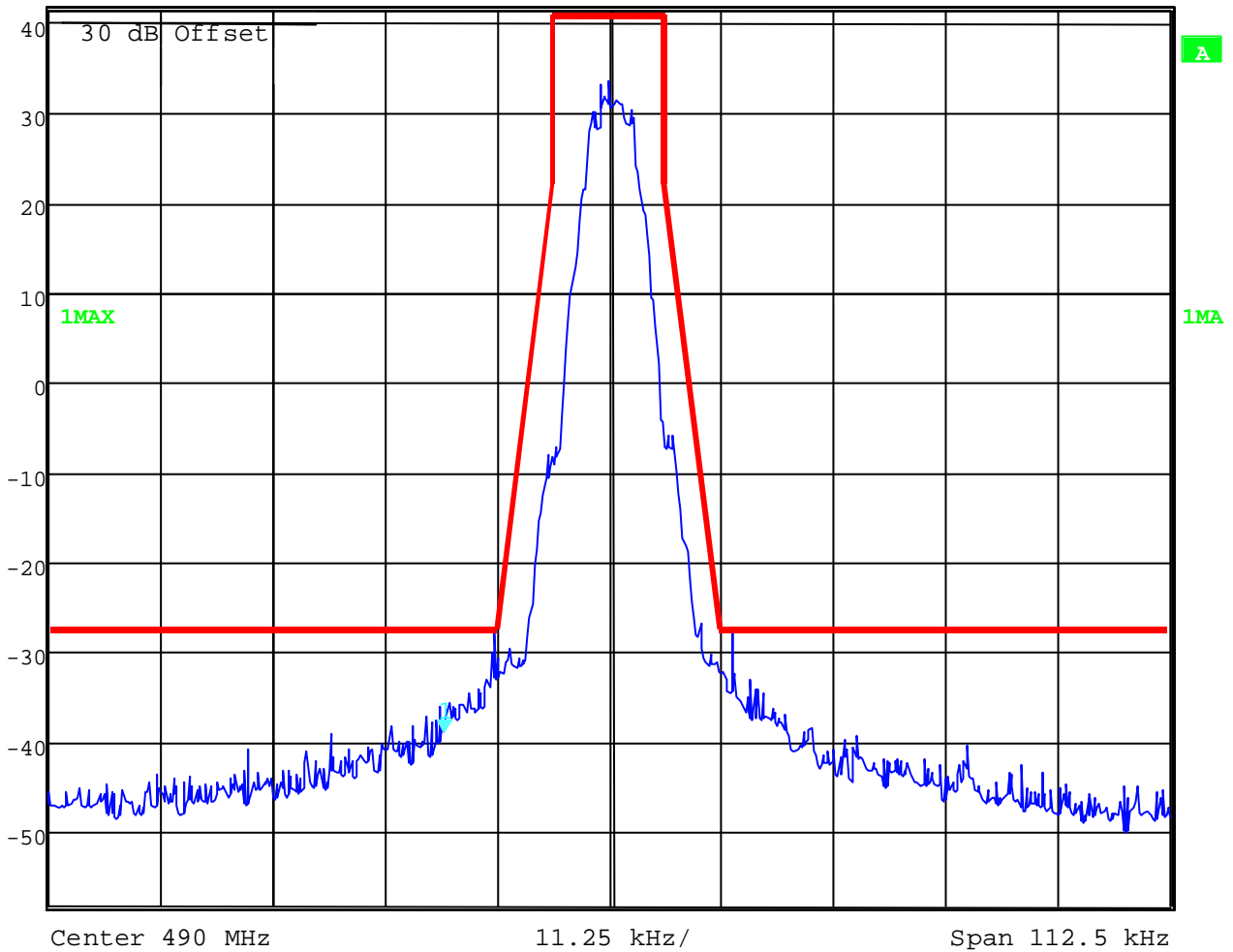
Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

OCCUPIED BANDWIDTH
 490 MHz (max. power)

§2.989



| | | | | | | | |
|---------|----------|---------------|------------------|-----|--------|--------|-------|
| Ref Lvl | 41.7 dBm | Marker 1 [T1] | -39.08 dBm | RBW | 100 Hz | RF Att | 40 dB |
| | | | 489.98342936 MHz | VBW | 100 Hz | | |
| | | | | SWT | 58 s | Unit | dBm |



Date: 16.JUL.2001 11:17:46

measured with normal Test modulation : Pseudo random data stream max. 8kBit/s

LIMITS

SUBCLAUSE § 90.210

Emission Mask D – 12.5 kHz channel bandwidth

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

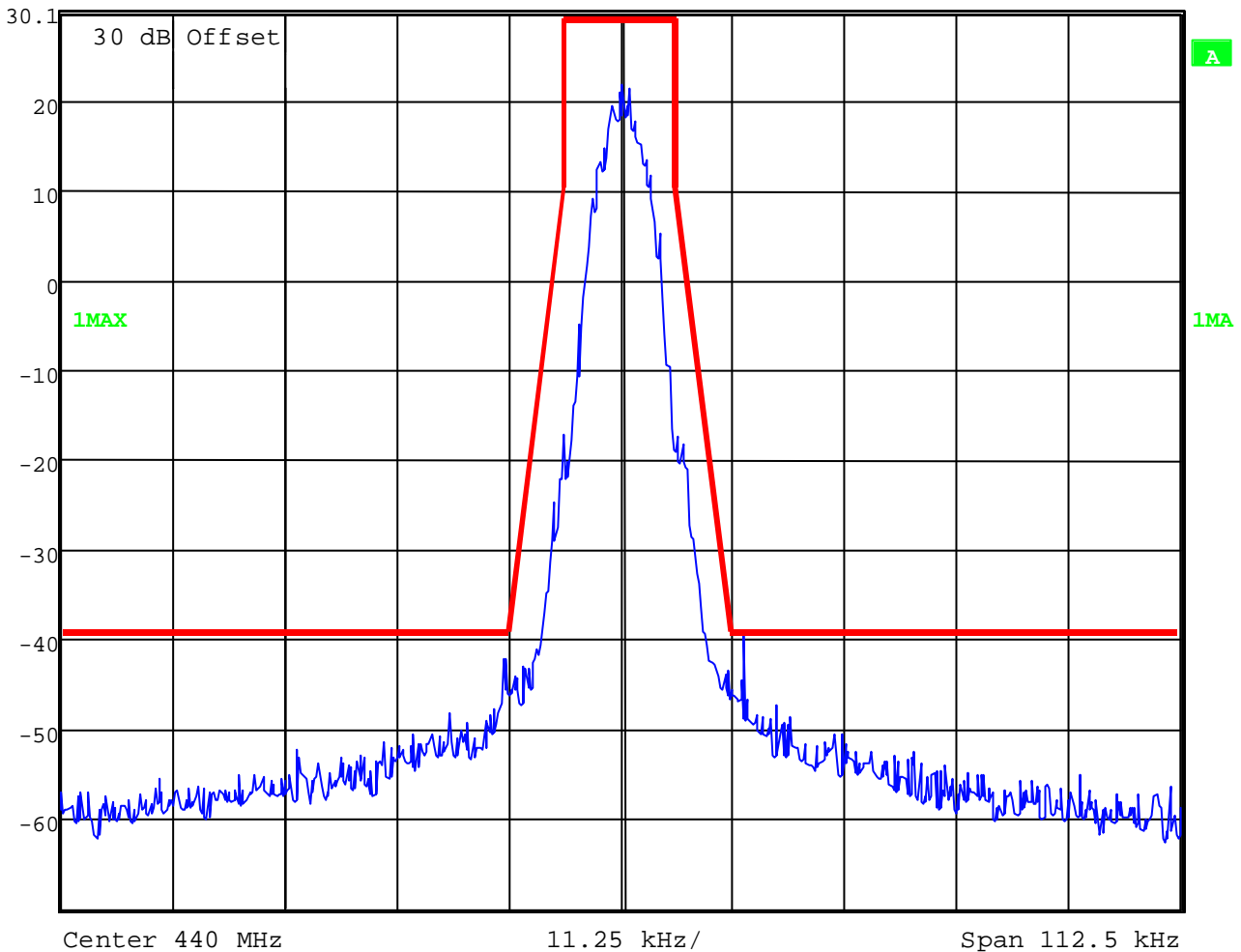
OCCUPIED BANDWIDTH
 440 MHz (min. power)

§2.989



Ref Lvl
 30.1 dBm

| | | | |
|-----|--------|--------|-------|
| RBW | 100 Hz | RF Att | 30 dB |
| VBW | 100 Hz | | |
| SWT | 58 s | Unit | dBm |



Date: 16.JUL.2001 13:14:59

measured with normal Test modulation : Pseudo random data stream max. 8kBit/s

LIMITS

SUBCLAUSE § 90.210

Emission Mask D – 12.5 kHz channel bandwidth

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

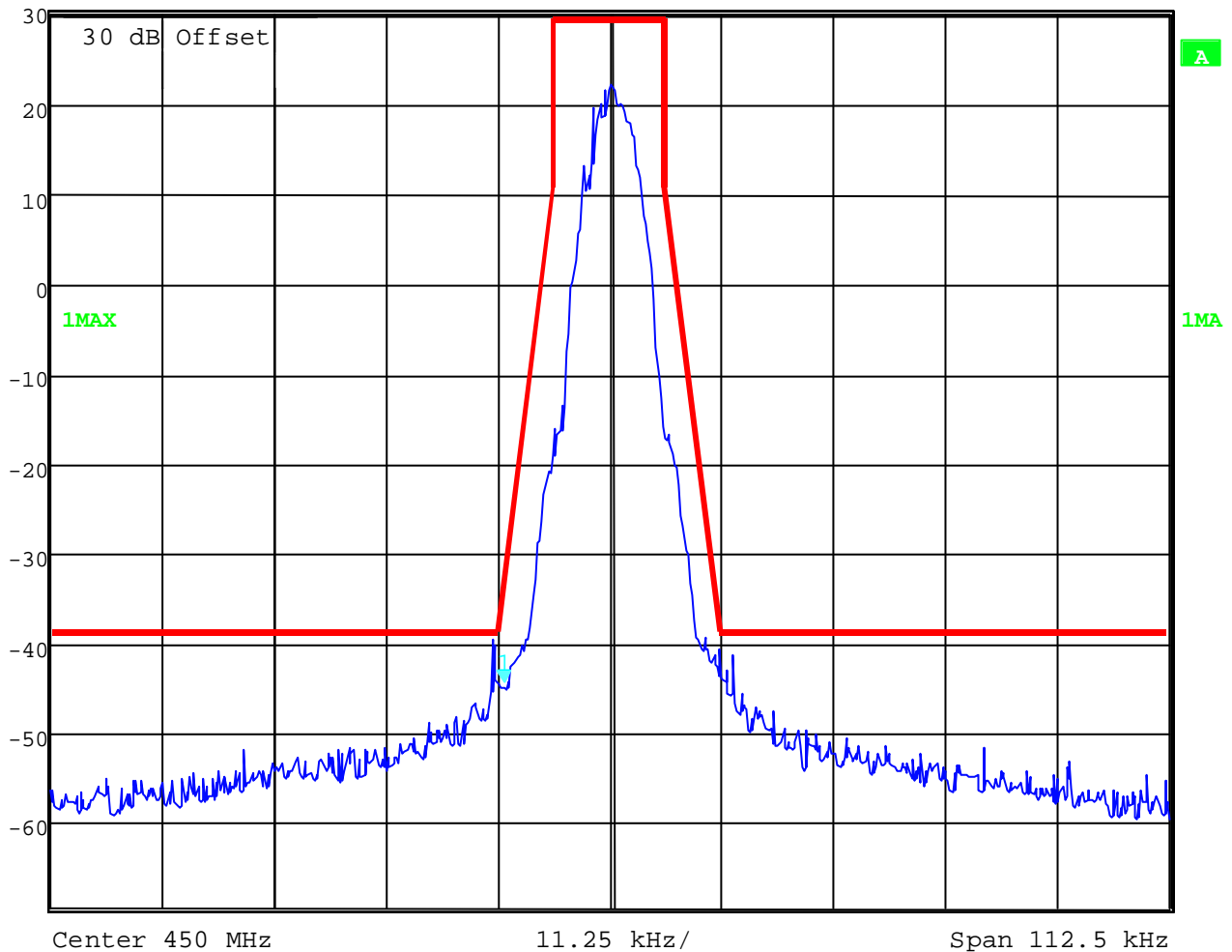
Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

OCCUPIED BANDWIDTH
 450 MHz (min. power)

§2.989



| | | | | | |
|----------|------------------|-----|--------|--------|-------|
| Ref Lvl | Marker 1 [T1] | RBW | 100 Hz | RF Att | 30 dB |
| 30.6 dBm | -44.39 dBm | VBW | 100 Hz | | |
| | 449.98929108 MHz | SWT | 58 s | Unit | dBm |



Date: 16.JUL.2001 13:27:03

measured with normal Test modulation : Pseudo random data stream max. 8kBit/s

LIMITS

SUBCLAUSE § 90.210

Emission Mask D – 12.5 kHz channel bandwidth

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

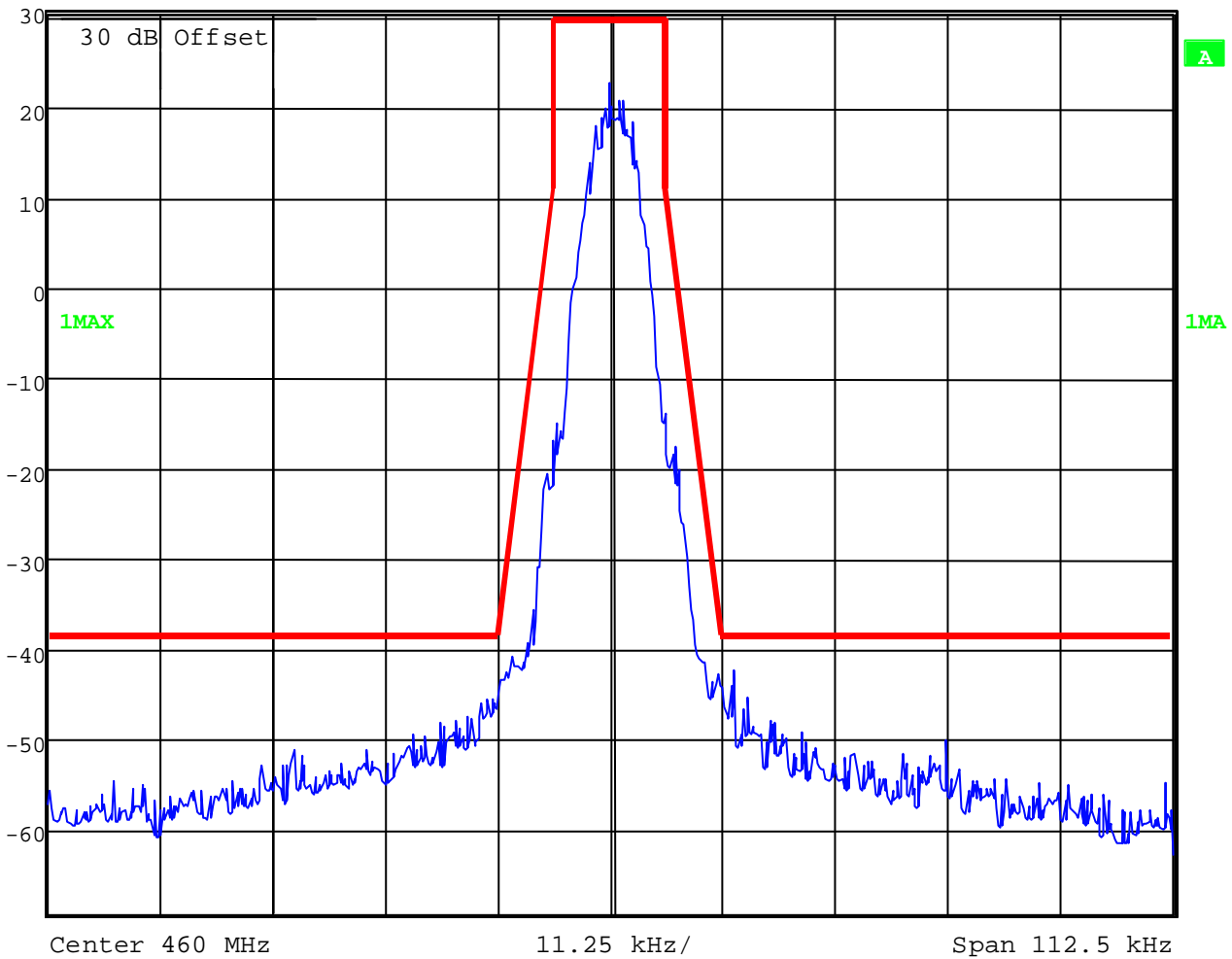
Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

OCCUPIED BANDWIDTH
 460 MHz (min. power)

§2.989



| | | | | |
|----------|-----|--------|--------|-------|
| Ref Lvl | RBW | 100 Hz | RF Att | 30 dB |
| 30.8 dBm | VBW | 100 Hz | Unit | dBm |
| | SWT | 58 s | | |



Date: 16.JUL.2001 13:32:27

measured with normal Test modulation : Pseudo random data stream max. 8kBit/s

LIMITS

SUBCLAUSE § 90.210

Emission Mask D – 12.5 kHz channel bandwidth

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

OCCUPIED BANDWIDTH
 470 MHz (min. power)

§2.989



Marker 1 [T1]

RBW 100 Hz RF Att 20 dB

Ref Lvl -46.18 dBm

VBW 100 Hz

30 dBm

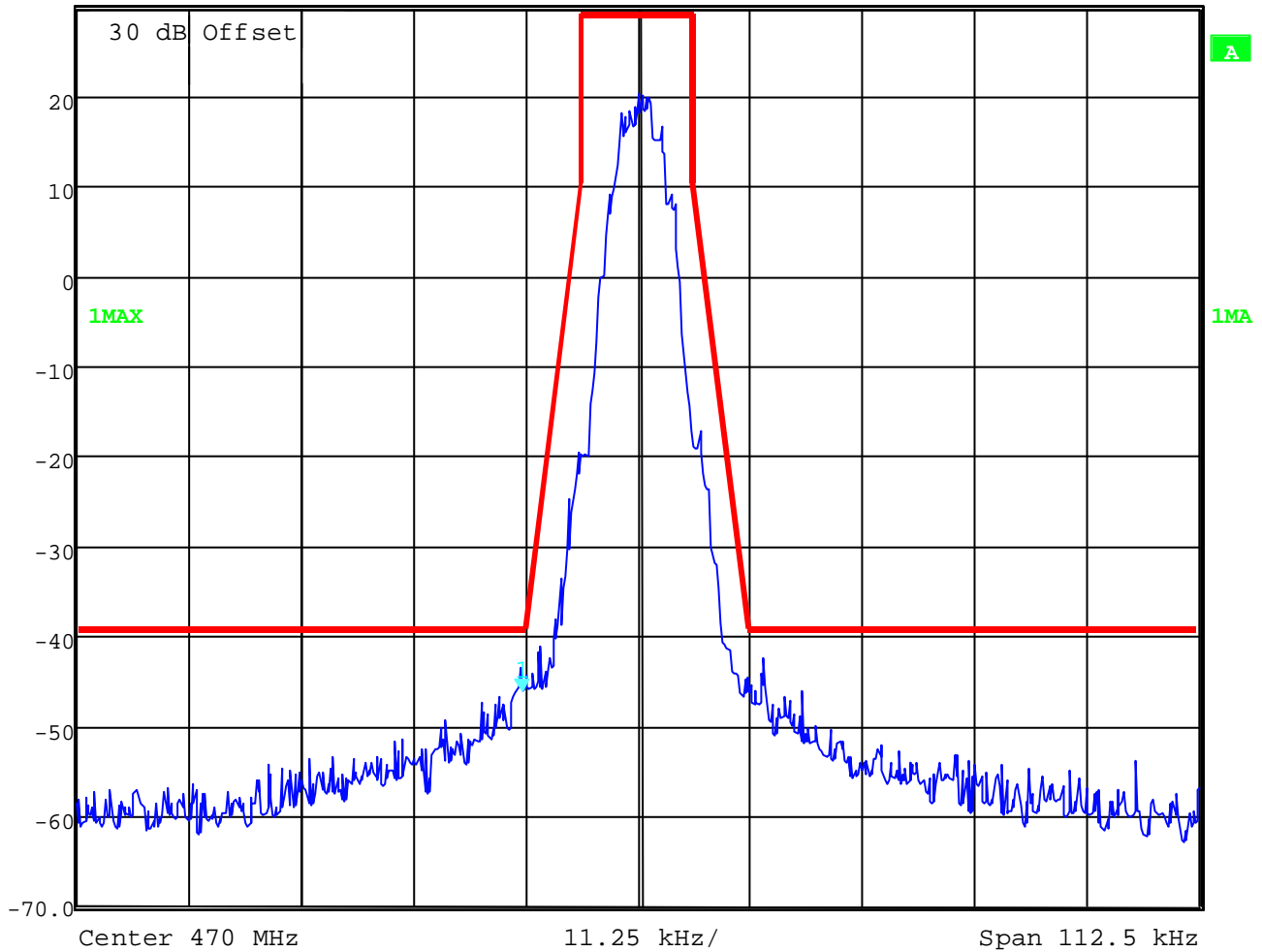
469.98838928 MHz

SWT

58 s

Unit

dBm



Date: 16.JUL.2001 13:34:59

measured with normal Test modulation : Pseudo random data stream max. 8kBit/s

LIMITS

SUBCLAUSE § 90.210


Emission Mask D – 12.5 kHz channel bandwidth

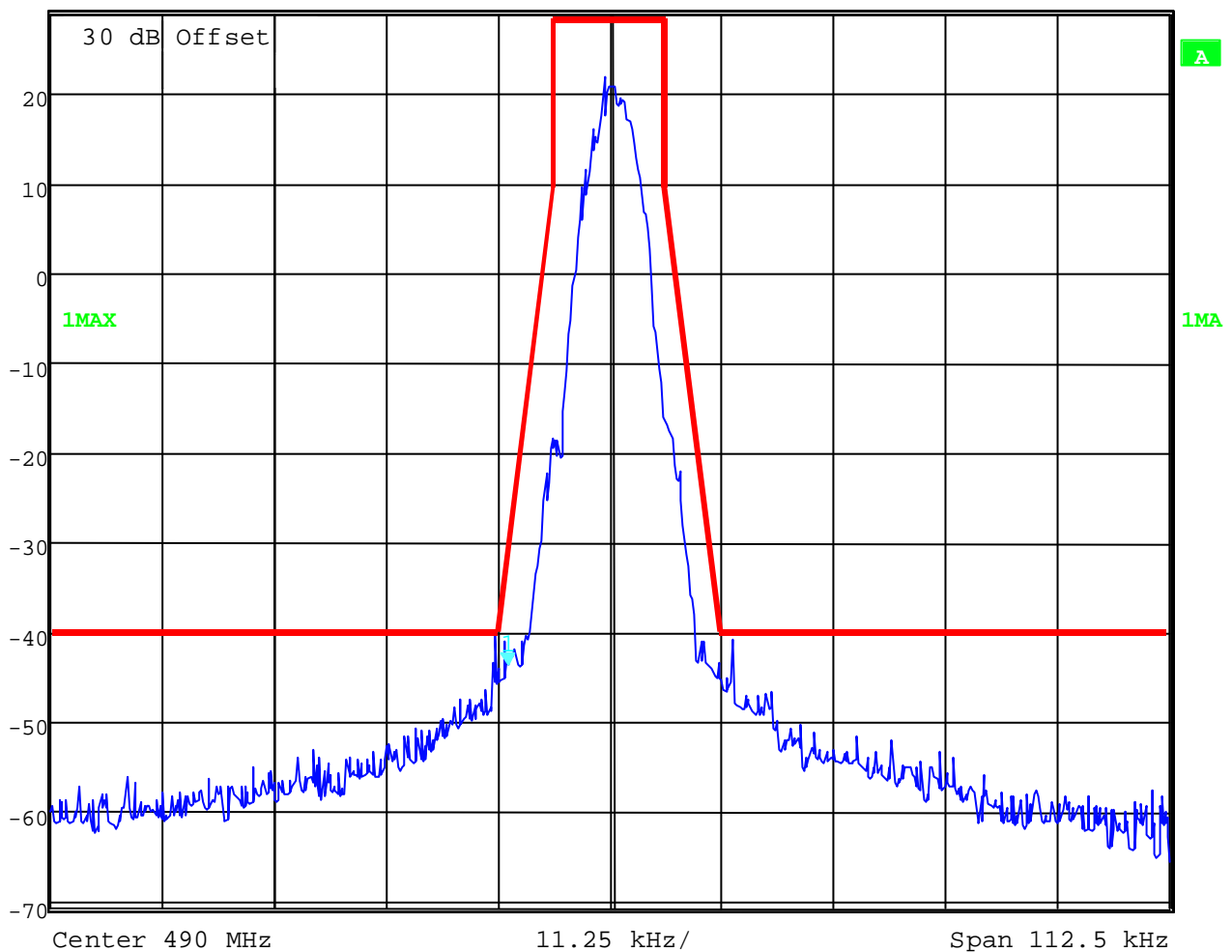
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
 (for reference numbers see test equipment listing)

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

OCCUPIED BANDWIDTH
 490 MHz (min. power)

§2.989

 Marker 1 [T1] RBW 100 Hz RF Att 20 dB
 Ref Lvl -43.55 dBm VBW 100 Hz
 29.2 dBm 489.98974198 MHz SWT 58 s Unit dBm



Date: 16.JUL.2001 13:38:39

measured with normal Test modulation : Pseudo random data stream max. 8kBit/s

LIMITS

SUBCLAUSE § 90.210

Emission Mask D – 12.5 kHz channel bandwidth

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

**PEAK OUTPUT POWER SUBCLAUSE § 2.1046
 (conducted)**

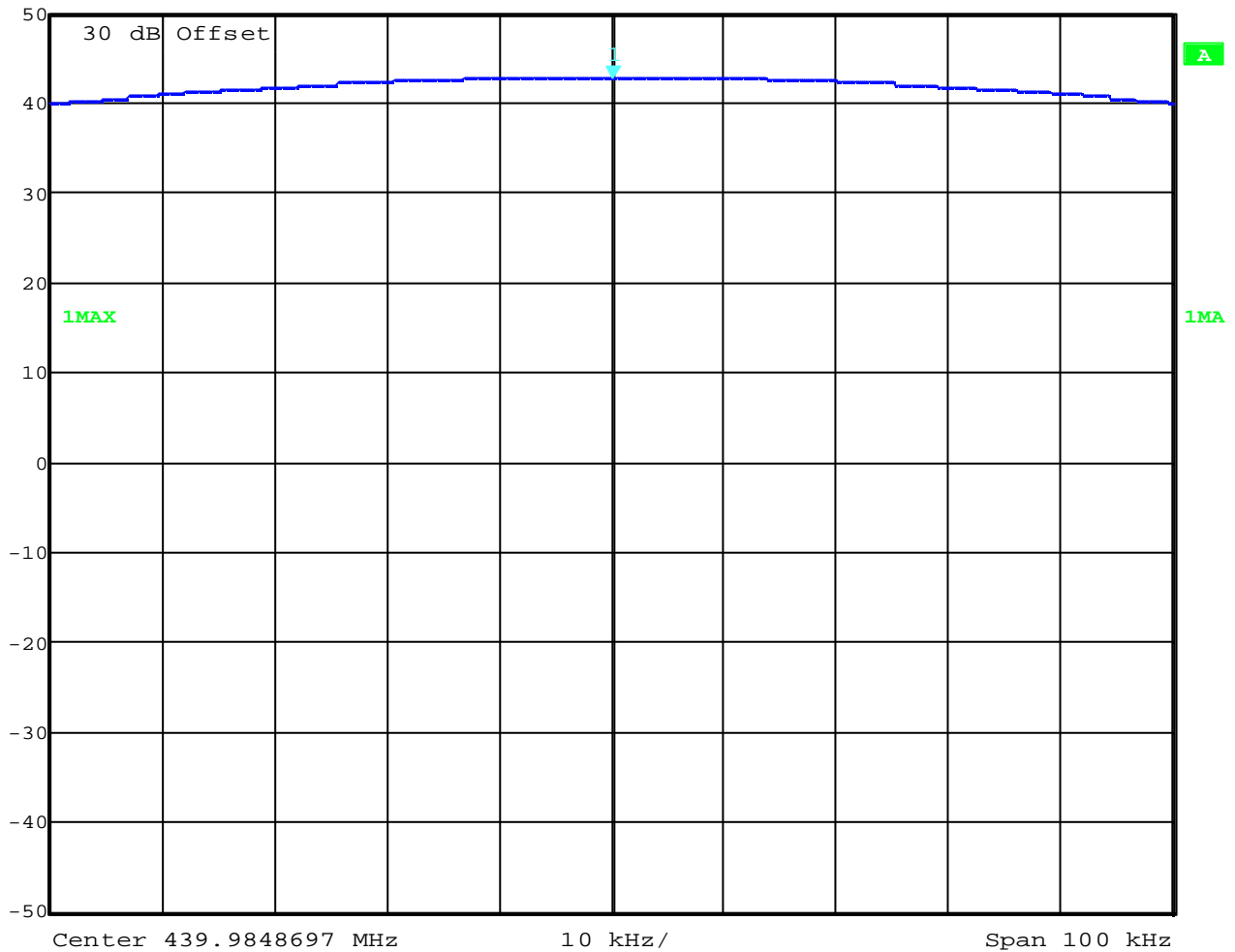
| TEST CONDITIONS | | | OUTPUT POWER (W) | | | | |
|---|-------------------------|-----|------------------|----------------|----------------|-------|-------|
| | | | 440 | 450 | 460 | 470 | 490 |
| Frequency (MHz) | | | | | | | |
| T _{nom} (23)° C | V _{nom} (48)V | Max | 18.50 | 19.45 | 19.17 | 15.31 | 14.66 |
| | | Min | 1.03 | 1.15 | 1.20 | 0.99 | 0.83 |
| Maximum deviation from output power under extreme test conditions (dBc) | | | not applicable | not applicable | not applicable | | |
| Measurement uncertainty | | | ±3dB | | | | |

RBW / VBW : 100 kHz

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

Peak output power (conducted)
 440 MHz (max. power)

Marker 1 [T1] RBW 100 kHz RF Att 50 dB
 Ref Lvl 42.67 dBm VBW 100 kHz
 50 dBm 439.98486974 MHz SWT 5 ms Unit dBm



Date: 16.JUL.2001 10:51:21

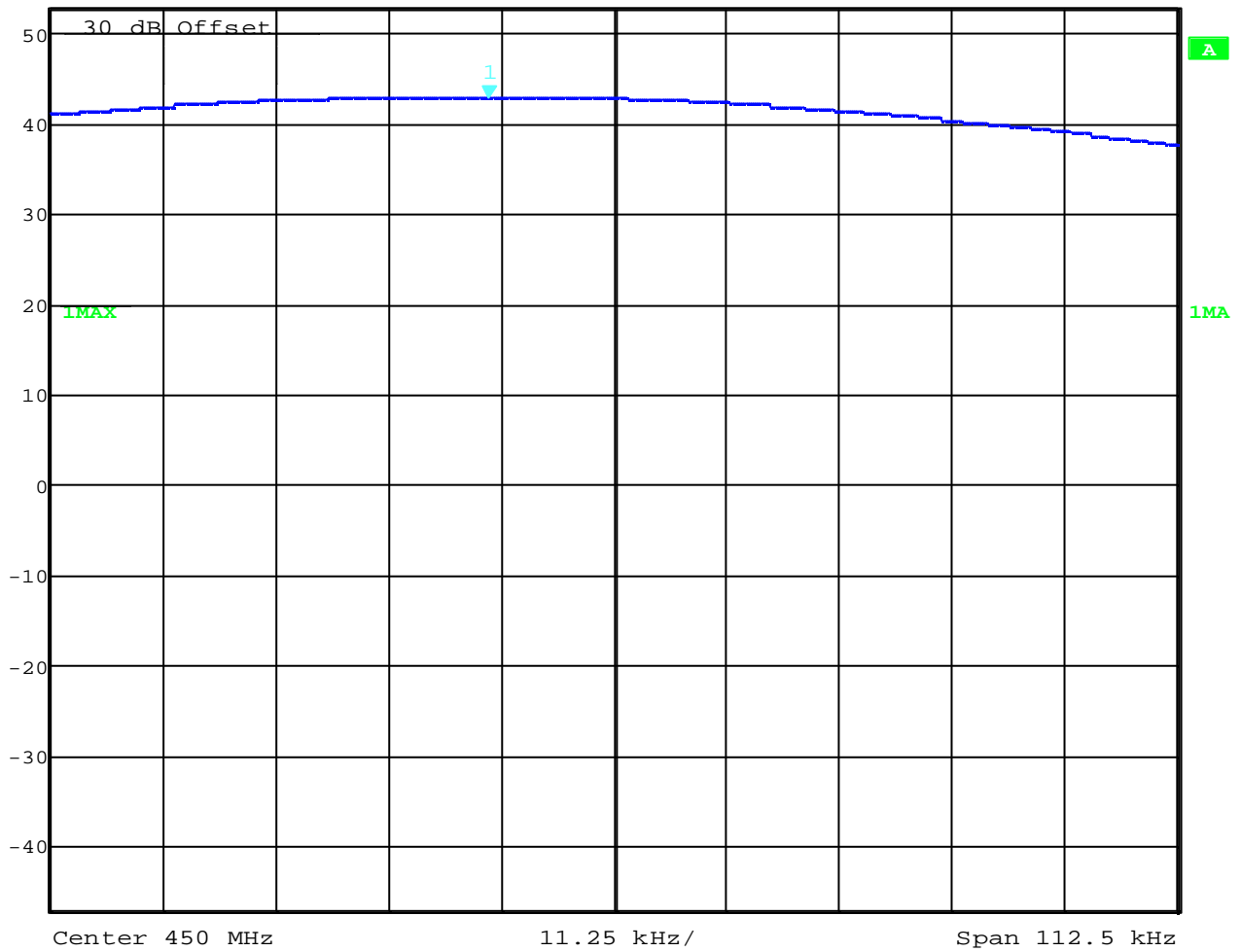
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
 (for reference numbers see test equipment listing)

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

Peak output power (conducted)
 450 MHz (max. power)



| | | | | |
|---------------|------------------|---------|---------|----------|
| Marker 1 [T1] | RBW | 100 kHz | RF Att | 50 dB |
| Ref Lvl | 42.89 dBm | VBW | 100 kHz | |
| 52.9 dBm | 449.98748747 MHz | SWT | 5 ms | Unit dBm |



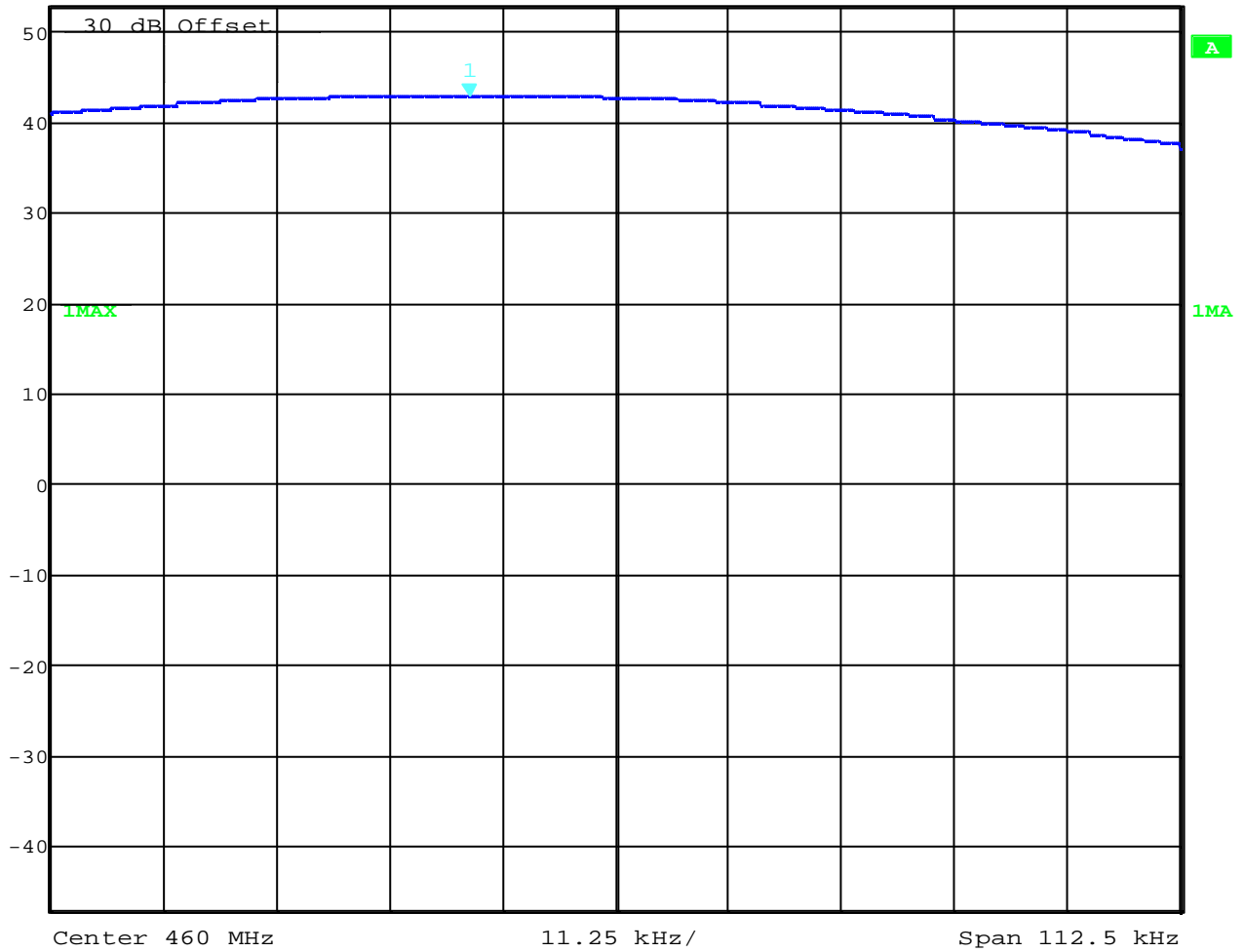
Date: 16.JUL.2001 11:02:44

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

**Peak output power (conducted)
 460 MHz (max. power)**

| | | | | | | |
|--|----------|------------------|------|---------|--------|-------|
| | Ref Lvl | 42.83 dBm | RBW | 100 kHz | RF Att | 50 dB |
| | 52.9 dBm | 459.98545842 MHz | VBW | 100 kHz | SWT | 5 ms |
| | | | Unit | | | dBm |




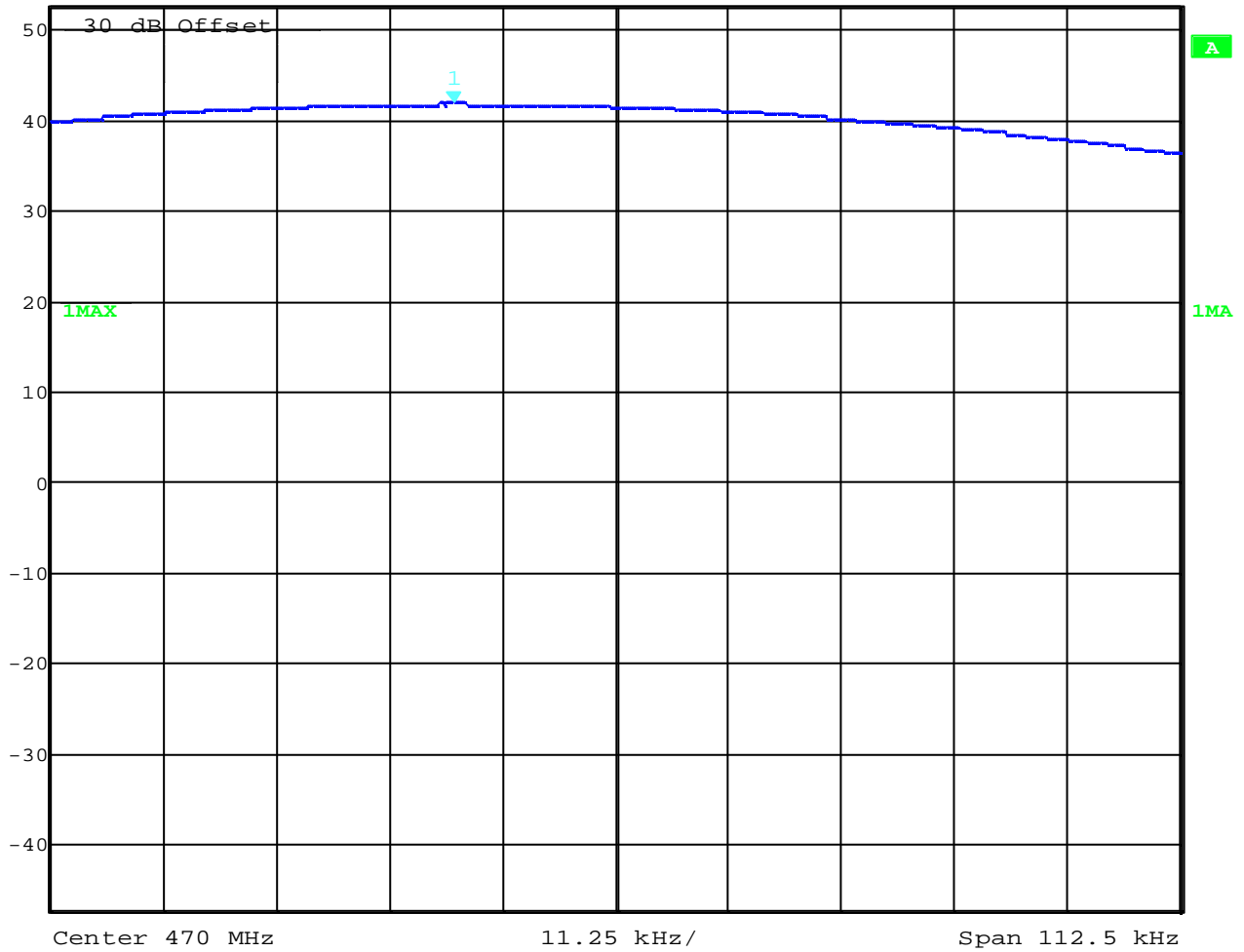
Date: 16.JUL.2001 11:06:53

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

Peak output power (conducted)
 470 MHz (max. power)

 Marker 1 [T1] RBW 100 kHz RF Att 50 dB
 Ref Lvl 41.85 dBm VBW 100 kHz
 52.8 dBm 469.98388026 MHz SWT 5 ms Unit dBm



Date: 16.JUL.2001 11:11:09

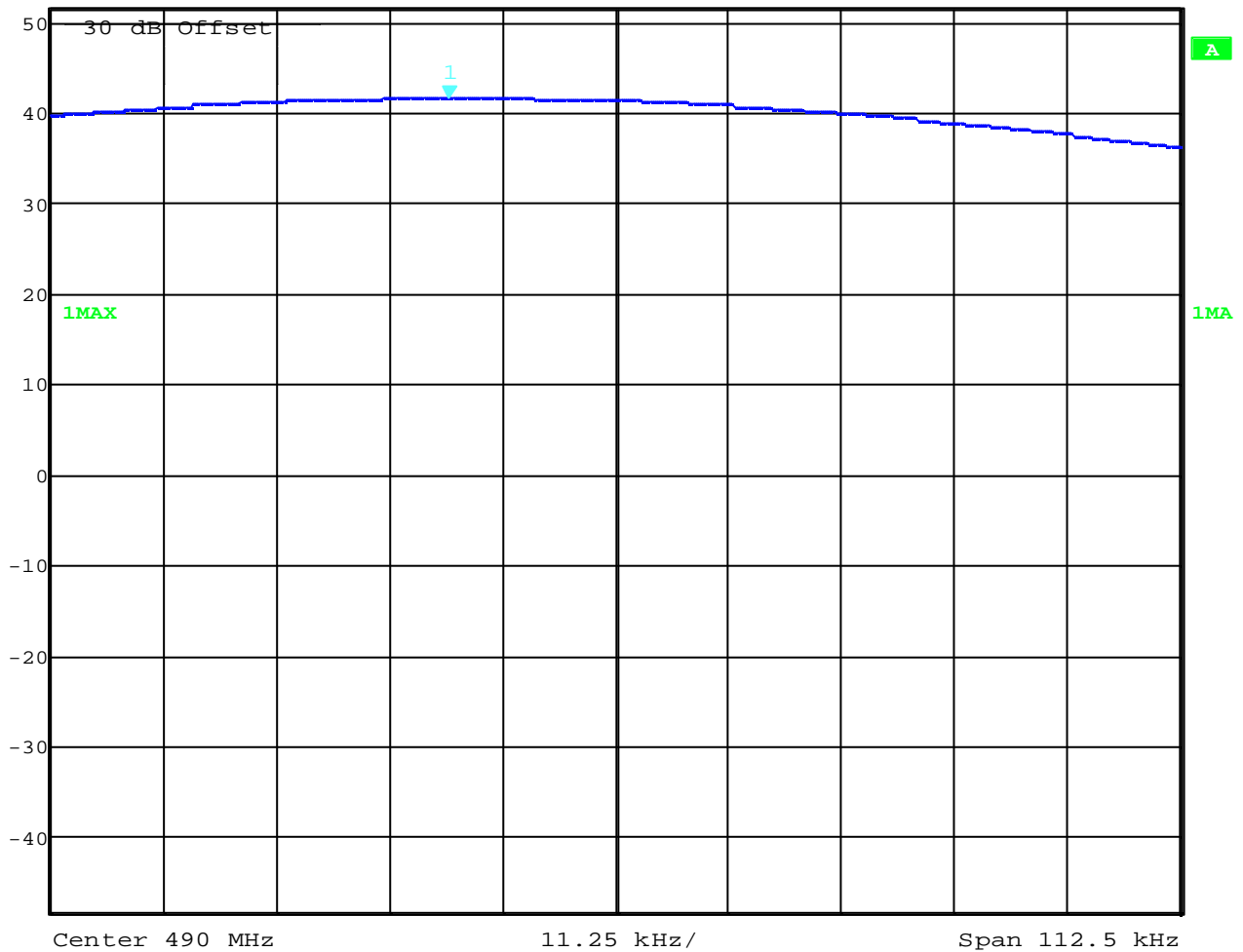
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
 (for reference numbers see test equipment listing)

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

**Peak output power (conducted)
 490 MHz (max. power)**



| | | | | | |
|----------|------------------|-----|---------|--------|-------|
| Ref Lvl | Marker 1 [T1] | RBW | 100 kHz | RF Att | 50 dB |
| 51.8 dBm | 41.66 dBm | VBW | 100 kHz | | |
| | 489.98342936 MHz | SWT | 5 ms | Unit | dBm |




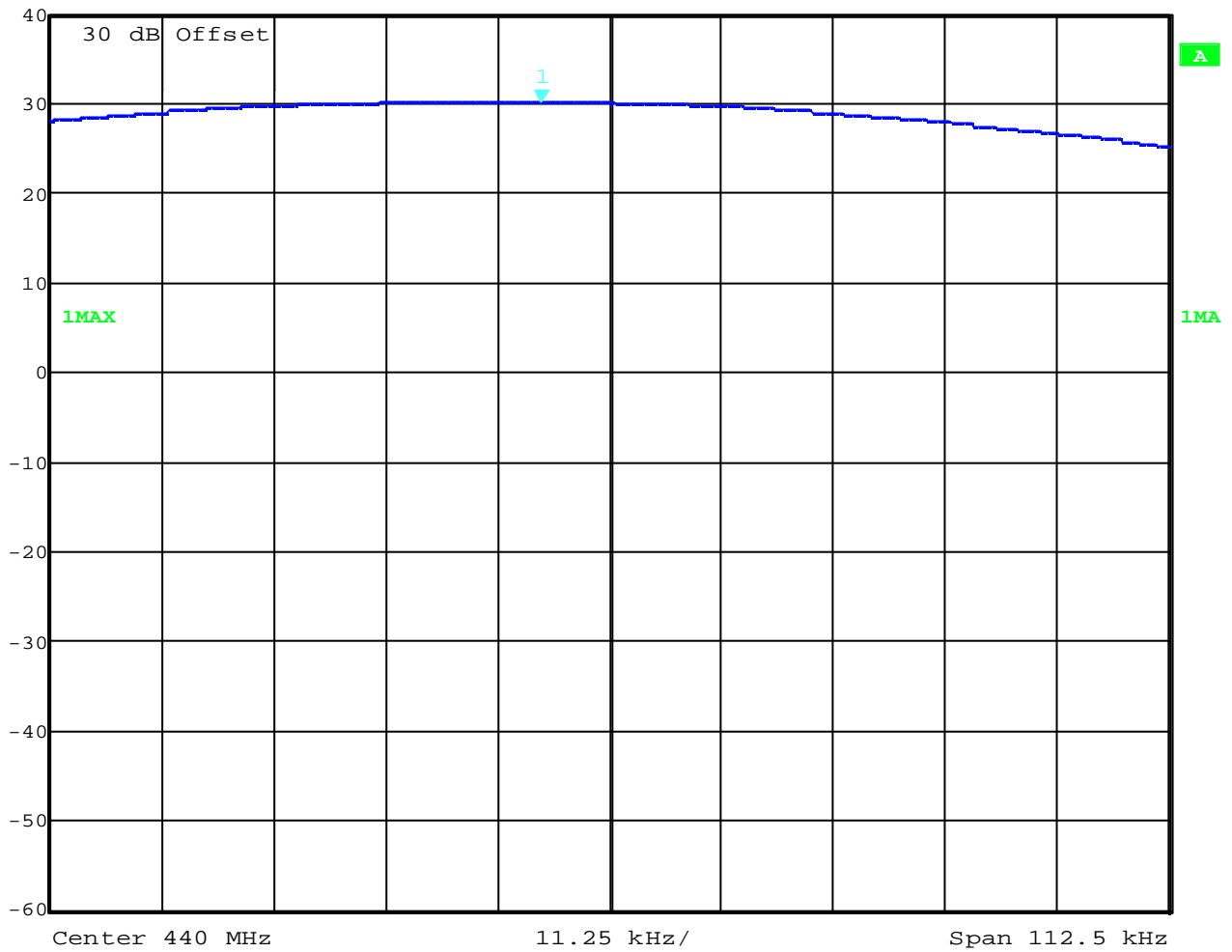
Date: 16.JUL.2001 11:15:05

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

Peak output power (conducted)
 440 MHz (min. power)

 Marker 1 [T1] RBW 100 kHz RF Att 40 dB
 Ref Lvl 30.11 dBm VBW 100 kHz
 40 dBm 439.99312375 MHz SWT 5 ms Unit dBm




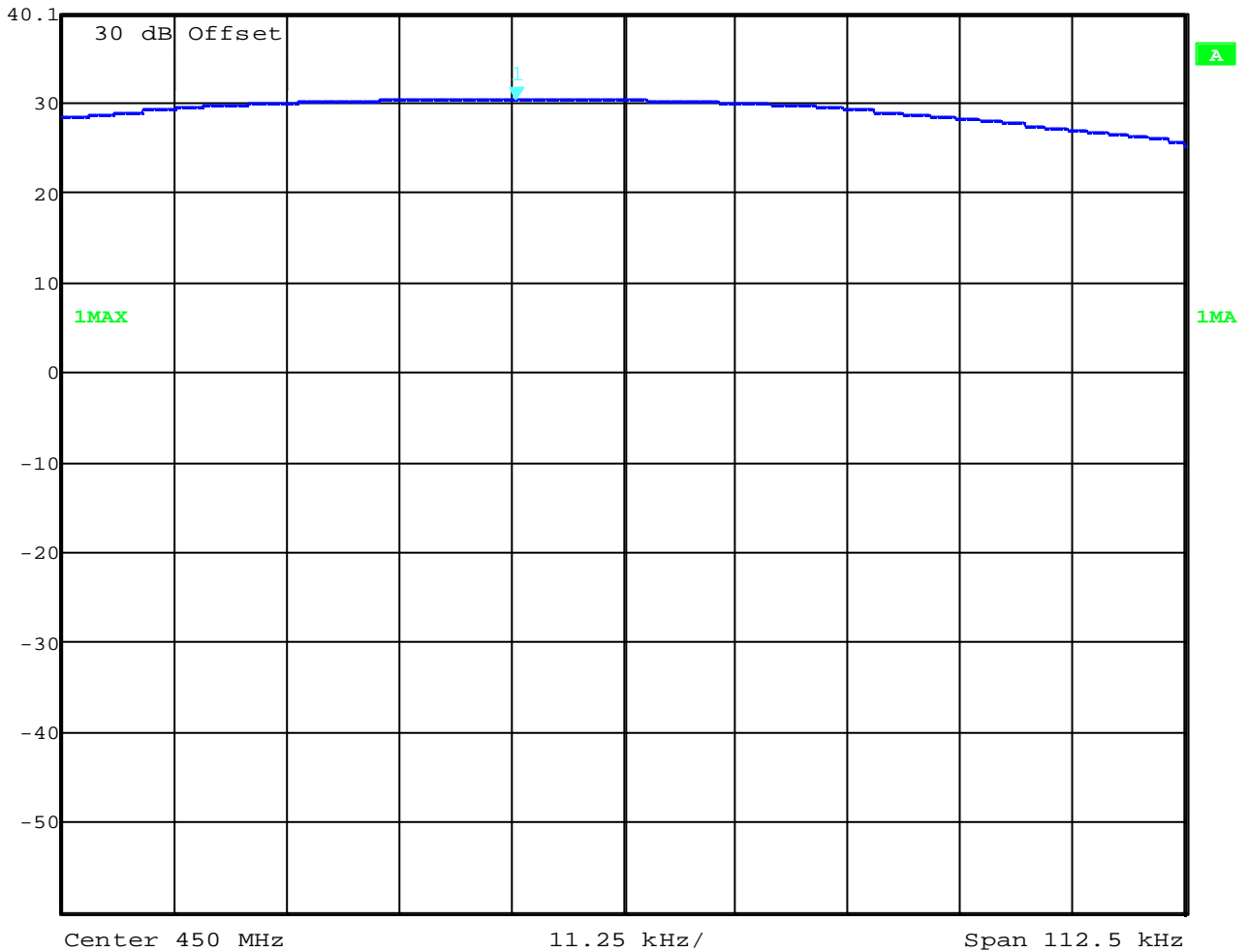
Date: 16.JUL.2001 13:13:21

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

Peak output power (conducted)
 450 MHz (min. power)

 Marker 1 [T1] RBW 100 kHz RF Att 40 dB
 Ref Lvl 30.59 dBm VBW 100 kHz
 40.1 dBm 449.98929108 MHz SWT 5 ms Unit dBm




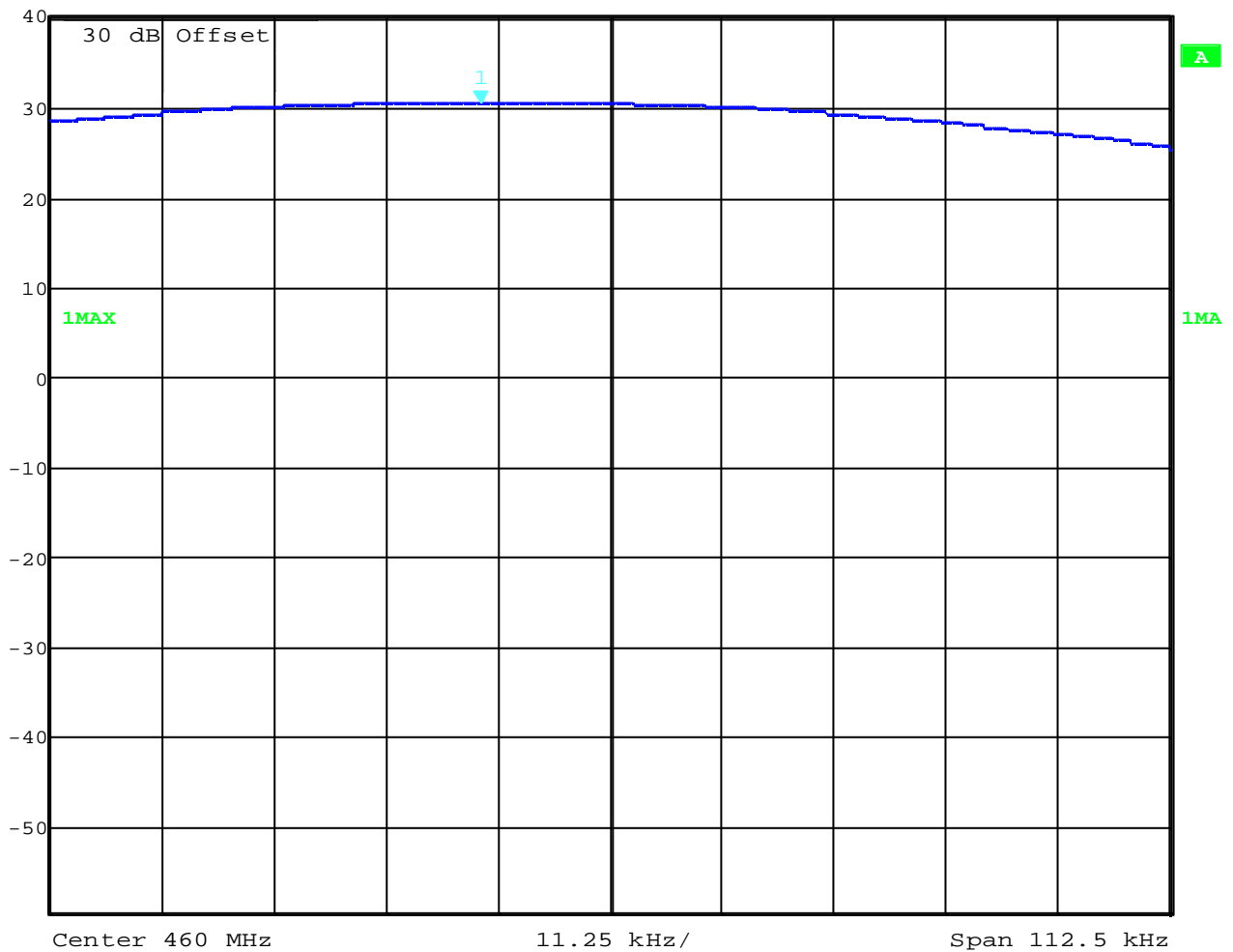
Date: 16.JUL.2001 13:22:33

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

Peak output power (conducted)
 460 MHz (min. power)

 Marker 1 [T1] RBW 100 kHz RF Att 40 dB
 Ref Lvl 30.79 dBm VBW 100 kHz
 40.6 dBm 459.98703657 MHz SWT 5 ms Unit dBm



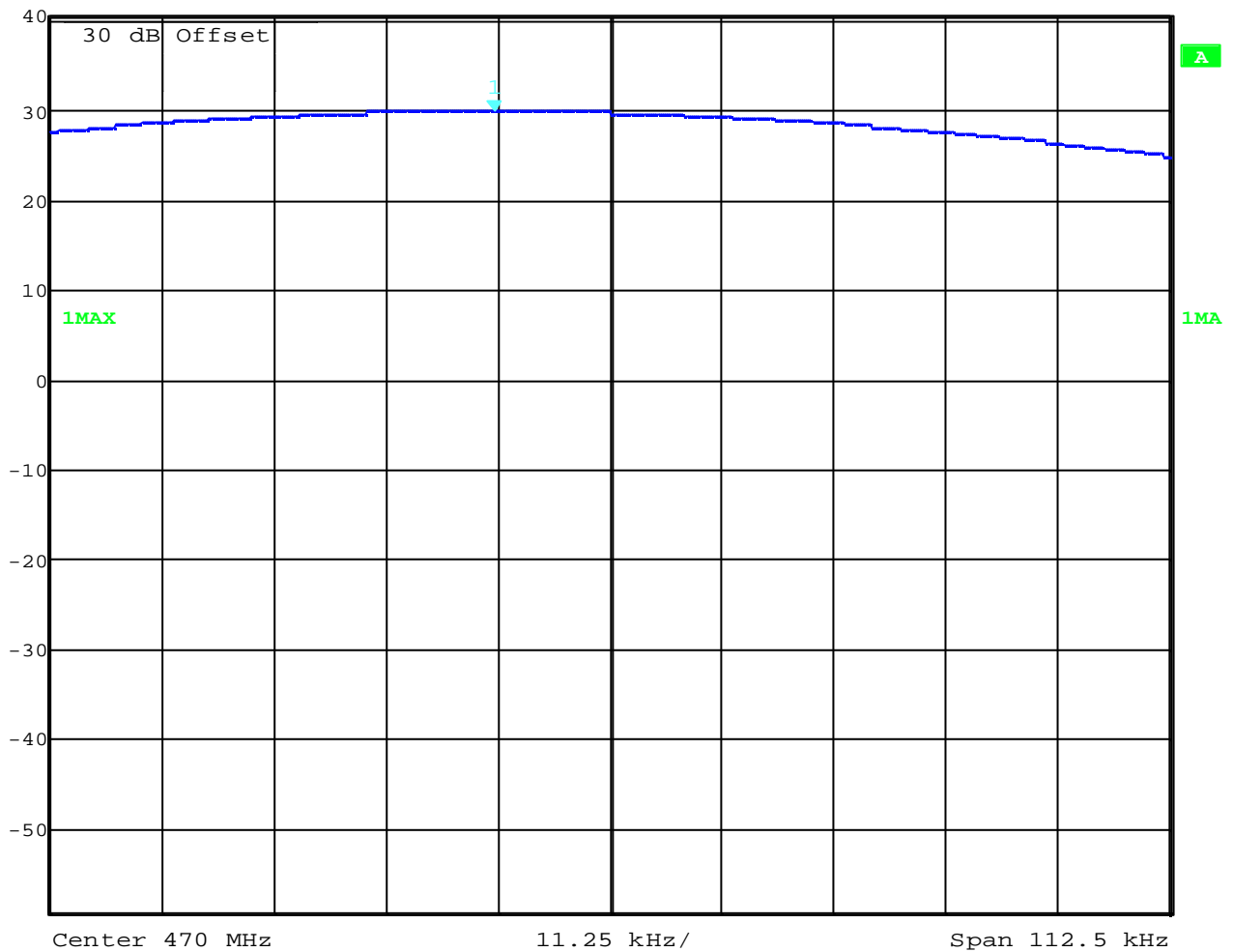
Date: 16.JUL.2001 13:30:58

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

Peak output power (conducted)
 470 MHz (min. power)

| | | | | | | |
|--|----------|------------------|-----|---------|--------|-------|
| | Ref Lvl | Marker 1 [T1] | RBW | 100 kHz | RF Att | 40 dB |
| | 40.8 dBm | 29.95 dBm | VBW | 100 kHz | | |
| | | 469.98838928 MHz | SWT | 5 ms | Unit | dBm |



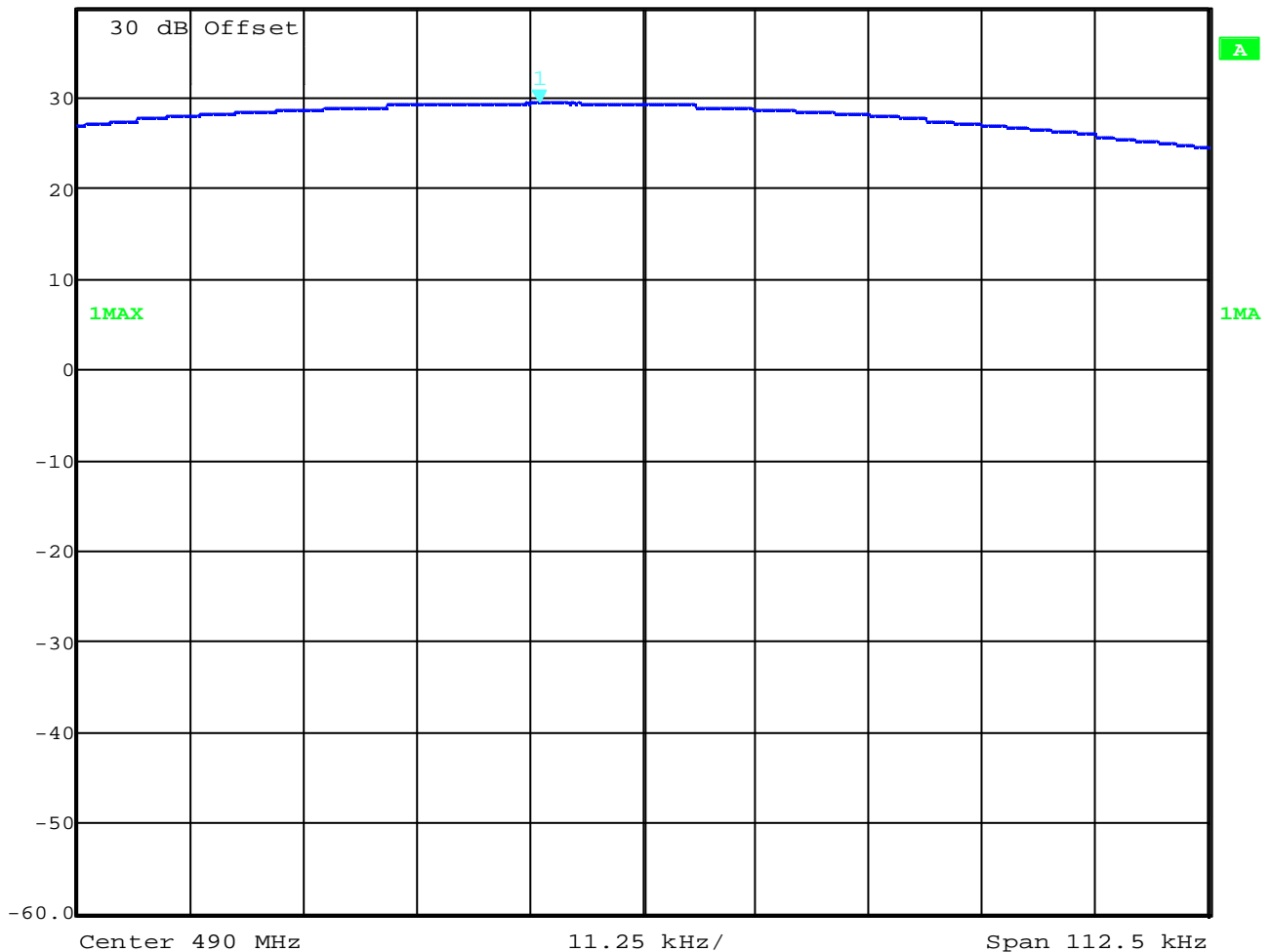
Date: 16.JUL.2001 13:33:32

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

Peak output power (conducted)
 490 MHz (min. power)

Marker 1 [T1] RBW 100 kHz RF Att 30 dB
 Ref Lvl 29.21 dBm VBW 100 kHz
 40 dBm 489.98974198 MHz SWT 5 ms Unit dBm



Date: 16.JUL.2001 13:36:26

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

CONDUCTED SPURIOUS EMISSIONS § 2.991

| EMISSION LIMITATIONS | | | | | |
|--------------------------------|--|--|---|---|----------------|
| f (MHz) | | amplitude of emission (dBm) | limit max. allowed emmission power | actual attenuation below frequency of operation (dB) | results |
| No peaks found | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| Measurement uncertainty | | ± 3dB | | | |

RBW : 100 kHz VBW: 1 MHz

LIMITS

SUBCLAUSE § 2.991

Conducted spurious emissions shall be attenuated below the maximum level of emission of the carrier frequency in accordance with the following formula:

For 12.5 kHz channel bandwidth :

$$\text{Spurious attenuation in dB} = 50 + 10 \log_{10} (\text{Power output in watt})$$

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

CONDUCTED SPURIOUS EMISSIONS § 2.991

Worst case measurement with 8 channels maximum power



Date: 16.JUL.2001 11:40:22

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

RADIATED SPURIOUS EMISSION §2.993

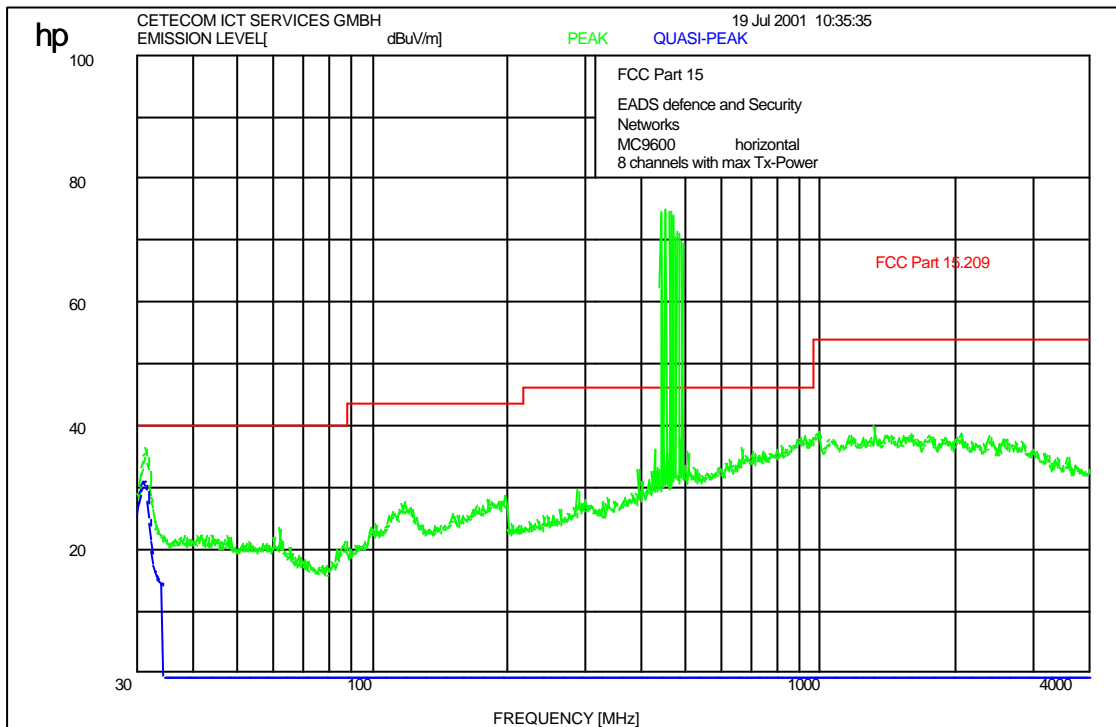
| EMISSION LIMITATIONS | | | | | |
|-------------------------|--------------|--|--|--|----------|
| f (MHz) | polarization | amplitude of emission (dBµV/m) QUASIPeAK | amplitude of emission (dBµV/m) average | limit max. allowed emission power (dBµV/m) | results |
| CH 1 – CH8 | | | | | |
| 31.04 | H | QP | 27.8 | 40.0 | Complies |
| 31.04 | V | QP | 30.8 | 40.0 | Complies |
| | | | | | |
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| | | | | | |
| | | | | | |
| Measurement uncertainty | | ± 3dB | | | |

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Equipment under test : MC9600 BS8 G2
Ambient temperature : 23° C
Relative humidity : 43%

RADIATED SPURIOUS EMISSIONS

Horizontal, 8 channels max power



f < 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

LIMITS

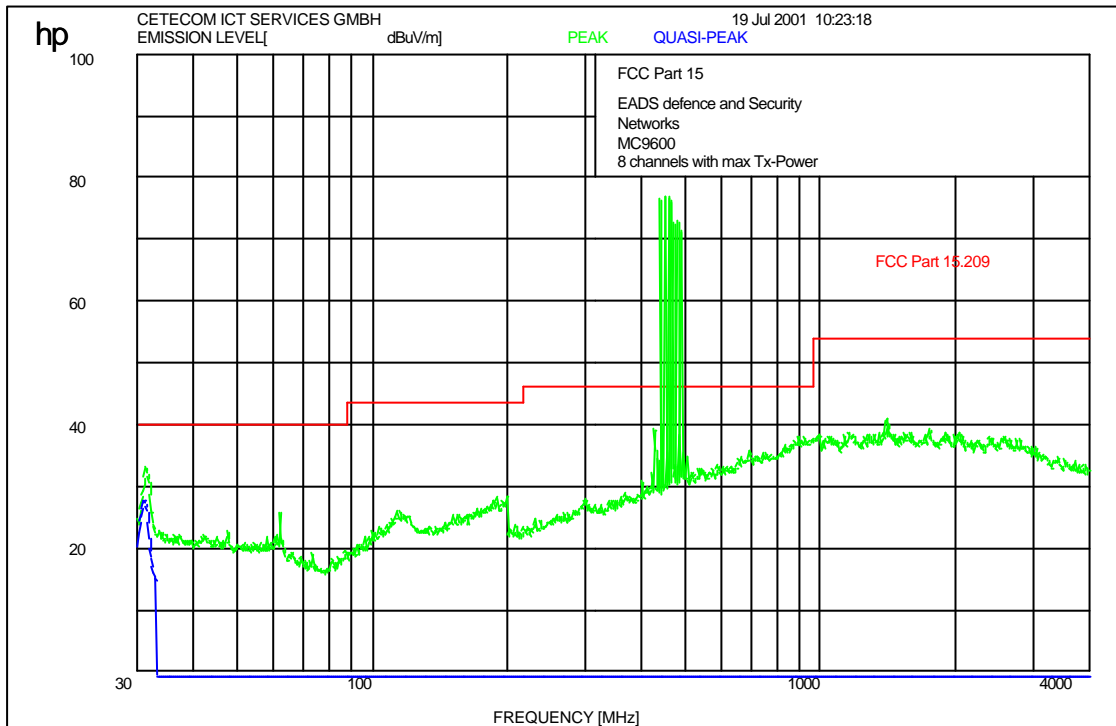
SUBCLAUSE § 15.209

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

Equipment under test : MC9600 BS8 G2
Ambient temperature : 23° C
Relative humidity : 43%

RADIATED SPURIOUS EMISSIONS

Vertical, 8 channels max power



f < 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

LIMITS

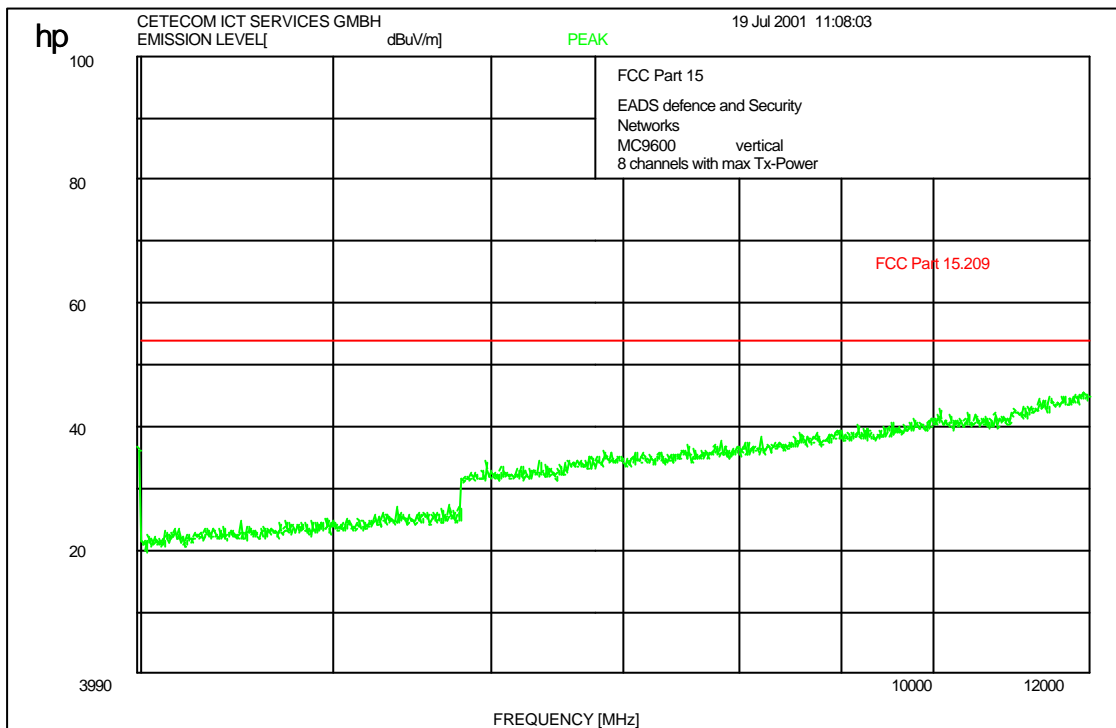
SUBCLAUSE § 15.209

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

Equipment under test : MC9600 BS8 G2
Ambient temperature : 23° C
Relative humidity : 43%

RADIATED SPURIOUS EMISSIONS

Vertical / Horizontal, 8 channels max power



f < 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

LIMITS

SUBCLAUSE § 15.209

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

FREQUENCY STABILITY Vs. TEMPERATURE § 2.995

| Temperature [° C] | Frequency error [Hz] | Frequency [MHz] | Error in % | Error in ppm |
|-------------------|----------------------|-----------------|-------------|--------------|
| -30° | 19 | 440 | 0,000000432 | 0,0432 |
| -20° | 19 | 440 | 0,000000432 | 0,0432 |
| -10° | 19 | 440 | 0,000000432 | 0,0432 |
| 0,0° | 19 | 440 | 0,000004318 | 0,0432 |
| +10° | 19 | 440 | 0,000004318 | 0,0432 |
| +20° | 20 | 440 | 0,000004545 | 0,0455 |
| +30° | 20 | 440 | 0,000004545 | 0,0455 |
| +40° | 20 | 440 | 0,000004545 | 0,0455 |
| +50° | 20 | 440 | 0,000004545 | 0,0455 |
| +60° | 20 | 440 | 0,000004545 | 0,0455 |

| Temperature [° C] | Frequency error [Hz] | Frequency [MHz] | Error in % | Error in ppm |
|-------------------|----------------------|-----------------|-------------|--------------|
| -30° | 20 | 450 | 0,000000444 | 0,0444 |
| -20° | 20 | 450 | 0,000000444 | 0,0444 |
| -10° | 20 | 450 | 0,000000444 | 0,0444 |
| 0,0° | 20 | 450 | 0,000004444 | 0,0444 |
| +10° | 20 | 450 | 0,000004444 | 0,0444 |
| +20° | 20 | 450 | 0,000004444 | 0,0444 |
| +30° | 20 | 450 | 0,000004444 | 0,0444 |
| +40° | 20 | 450 | 0,000004444 | 0,0444 |
| +50° | 20 | 450 | 0,000004444 | 0,0444 |
| +60° | 20 | 450 | 0,000000444 | 0,0444 |

| Temperature [° C] | Frequency error [Hz] | Frequency [MHz] | Error in % | Error in ppm |
|-------------------|----------------------|-----------------|-------------|--------------|
| -30° | 20 | 460 | 0,000000435 | 0,0435 |
| -20° | 20 | 460 | 0,000000435 | 0,0435 |
| -10° | 20 | 460 | 0,000000435 | 0,0435 |
| 0,0° | 20 | 460 | 0,000004348 | 0,0435 |
| +10° | 20 | 460 | 0,000004348 | 0,0435 |
| +20° | 20 | 460 | 0,000004348 | 0,0435 |
| +30° | 20 | 460 | 0,000004348 | 0,0435 |
| +40° | 21 | 460 | 0,000004565 | 0,0457 |
| +50° | 21 | 460 | 0,000004565 | 0,0457 |
| +60° | 21 | 460 | 0,000004565 | 0,0457 |

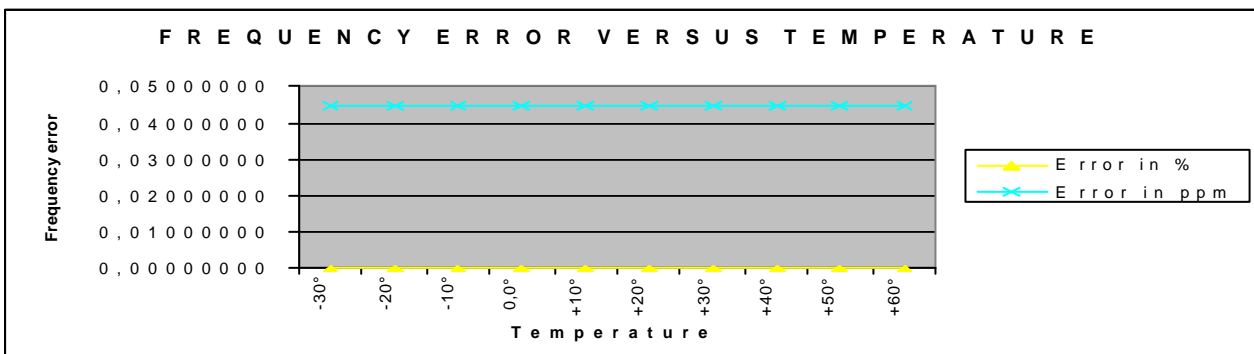
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
 (for reference numbers see test equipment listing)

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

FREQUENCY STABILITY Vs. TEMPERATURE § 2.995

| Temperature [° C] | Frequency error [Hz] | Frequency [MHz] | Error in % | Error in ppm |
|-------------------|----------------------|-----------------|-------------|--------------|
| -30° | 21 | 470 | 0,000000447 | 0,0447 |
| -20° | 21 | 470 | 0,000000447 | 0,0447 |
| -10° | 21 | 470 | 0,000000447 | 0,0447 |
| 0,0° | 21 | 470 | 0,000004468 | 0,0447 |
| +10° | 21 | 470 | 0,000004468 | 0,0447 |
| +20° | 21 | 470 | 0,000004468 | 0,0447 |
| +30° | 21 | 470 | 0,000004468 | 0,0447 |
| +40° | 22 | 470 | 0,000004681 | 0,0468 |
| +50° | 22 | 470 | 0,000004681 | 0,0468 |
| +60° | 22 | 470 | 0,000004681 | 0,0468 |

| Temperature [° C] | Frequency error [Hz] | Frequency [MHz] | Error in % | Error in ppm |
|-------------------|----------------------|-----------------|-------------|--------------|
| -30° | 22 | 490 | 0,000000449 | 0,0449 |
| -20° | 22 | 490 | 0,000000449 | 0,0449 |
| -10° | 22 | 490 | 0,000000449 | 0,0449 |
| 0,0° | 22 | 490 | 0,000004490 | 0,0449 |
| +10° | 22 | 490 | 0,000004490 | 0,0449 |
| +20° | 22 | 490 | 0,000004490 | 0,0449 |
| +30° | 22 | 490 | 0,000004490 | 0,0449 |
| +40° | 22 | 490 | 0,000004490 | 0,0449 |
| +50° | 22 | 490 | 0,000004490 | 0,0449 |
| +60° | 22 | 490 | 0,000004490 | 0,0449 |



LIMITS

SUBCLAUSE § 90.213

Temperature – Frequency Stability of 0.0005% from -30 to +60 °C

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

FREQUENCY STABILITY Vs. VOLTAGE § 2.991

| nom. Voltage | nom. Voltage | Voltage [V] | Frequency error [Hz] | Frequency [MHz] | Error in % | Error in ppm |
|--------------|--------------|-------------|----------------------|-----------------|------------|--------------|
| 0,85 | 48 | 40,80 | 20 | 440 | 0,00000045 | 0,0455 |
| 0,88 | | 42,24 | 20 | 440 | 0,00000045 | 0,0455 |
| 0,90 | | 43,20 | 20 | 440 | 0,00000045 | 0,0455 |
| 0,93 | | 44,64 | 20 | 440 | 0,00000045 | 0,0455 |
| 0,95 | | 45,60 | 20 | 440 | 0,00000045 | 0,0455 |
| 0,98 | | 47,04 | 20 | 440 | 0,00000045 | 0,0455 |
| 1,00 | | 48,00 | 20 | 440 | 0,00000045 | 0,0455 |
| 1,03 | | 49,44 | 20 | 440 | 0,00000045 | 0,0455 |
| 1,05 | | 50,40 | 20 | 440 | 0,00000045 | 0,0455 |
| 1,08 | | 51,84 | 20 | 440 | 0,00000045 | 0,0455 |
| 1,10 | | 52,80 | 20 | 440 | 0,00000045 | 0,0455 |
| 1,13 | | 54,24 | 20 | 440 | 0,00000045 | 0,0455 |
| 1,15 | | 55,20 | 20 | 440 | 0,00000045 | 0,0455 |

| nom. Voltage | nom. Voltage | Voltage [V] | Frequency error [Hz] | Frequency [MHz] | Error in % | Error in ppm |
|--------------|--------------|-------------|----------------------|-----------------|------------|--------------|
| 0,85 | 48 | 40,80 | 20 | 450 | 0,00000044 | 0,0444 |
| 0,88 | | 42,24 | 20 | 450 | 0,00000044 | 0,0444 |
| 0,90 | | 43,20 | 20 | 450 | 0,00000044 | 0,0444 |
| 0,93 | | 44,64 | 20 | 450 | 0,00000044 | 0,0444 |
| 0,95 | | 45,60 | 20 | 450 | 0,00000044 | 0,0444 |
| 0,98 | | 47,04 | 20 | 450 | 0,00000044 | 0,0444 |
| 1,00 | | 48,00 | 20 | 450 | 0,00000044 | 0,0444 |
| 1,03 | | 49,44 | 20 | 450 | 0,00000044 | 0,0444 |
| 1,05 | | 50,40 | 20 | 450 | 0,00000044 | 0,0444 |
| 1,08 | | 51,84 | 20 | 450 | 0,00000044 | 0,0444 |
| 1,10 | | 52,80 | 20 | 450 | 0,00000044 | 0,0444 |
| 1,13 | | 54,24 | 20 | 450 | 0,00000044 | 0,0444 |
| 1,15 | | 55,20 | 20 | 450 | 0,00000044 | 0,0444 |

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

FREQUENCY STABILITY Vs. VOLTAGE § 2.991

| nom. Voltage | nom. Voltage | Voltage [V] | Frequency error [Hz] | Frequency [MHz] | Error in % | Error in ppm |
|--------------|--------------|-------------|----------------------|-----------------|------------|--------------|
| 0,85 | 48 | 40,80 | 20 | 460 | 0,00000043 | 0,0435 |
| 0,88 | | 42,24 | 20 | 460 | 0,00000043 | 0,0435 |
| 0,90 | | 43,20 | 20 | 460 | 0,00000043 | 0,0435 |
| 0,93 | | 44,64 | 20 | 460 | 0,00000043 | 0,0435 |
| 0,95 | | 45,60 | 20 | 460 | 0,00000043 | 0,0435 |
| 0,98 | | 47,04 | 20 | 460 | 0,00000043 | 0,0435 |
| 1,00 | | 48,00 | 20 | 460 | 0,00000043 | 0,0435 |
| 1,03 | | 49,44 | 20 | 460 | 0,00000043 | 0,0435 |
| 1,05 | | 50,40 | 20 | 460 | 0,00000043 | 0,0435 |
| 1,08 | | 51,84 | 20 | 460 | 0,00000043 | 0,0435 |
| 1,10 | | 52,80 | 20 | 460 | 0,00000043 | 0,0435 |
| 1,13 | | 54,24 | 21 | 460 | 0,00000046 | 0,0457 |
| 1,15 | | 55,20 | 21 | 460 | 0,00000046 | 0,0457 |

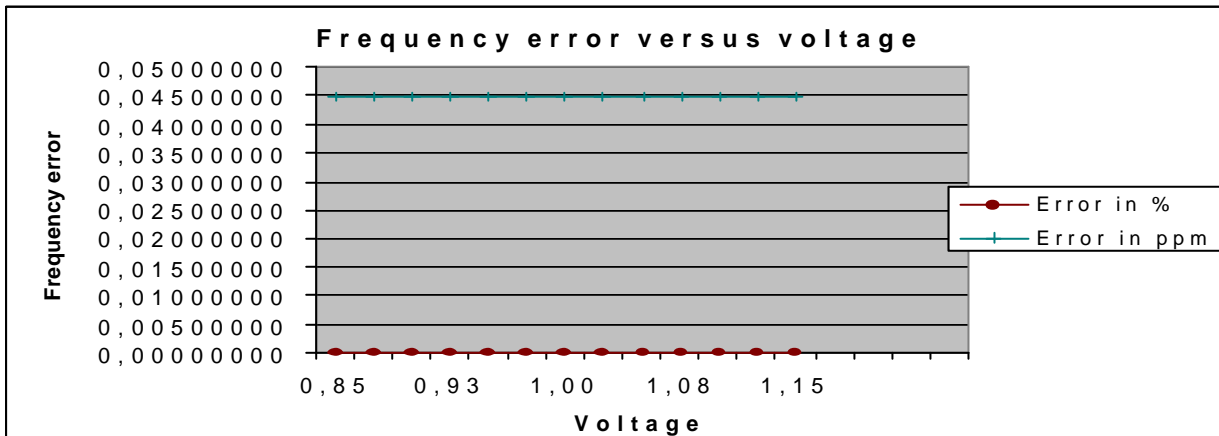
| nom. Voltage | nom. Voltage | Voltage [V] | Frequency error [Hz] | Frequency [MHz] | Error in % | Error in ppm |
|--------------|--------------|-------------|----------------------|-----------------|------------|--------------|
| 0,85 | 48 | 40,80 | 21 | 470 | 0,00000045 | 0,0447 |
| 0,88 | | 42,24 | 21 | 470 | 0,00000045 | 0,0447 |
| 0,90 | | 43,20 | 21 | 470 | 0,00000045 | 0,0447 |
| 0,93 | | 44,64 | 21 | 470 | 0,00000045 | 0,0447 |
| 0,95 | | 45,60 | 21 | 470 | 0,00000045 | 0,0447 |
| 0,98 | | 47,04 | 21 | 470 | 0,00000045 | 0,0447 |
| 1,00 | | 48,00 | 21 | 470 | 0,00000045 | 0,0447 |
| 1,03 | | 49,44 | 21 | 470 | 0,00000045 | 0,0447 |
| 1,05 | | 50,40 | 21 | 470 | 0,00000045 | 0,0447 |
| 1,08 | | 51,84 | 21 | 470 | 0,00000045 | 0,0447 |
| 1,10 | | 52,80 | 21 | 470 | 0,00000045 | 0,0447 |
| 1,13 | | 54,24 | 21 | 470 | 0,00000045 | 0,0447 |
| 1,15 | | 55,20 | 21 | 470 | 0,00000045 | 0,0447 |

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

FREQUENCY STABILITY Vs. VOLTAGE § 2.991

| nom. Voltage | nom. Voltage | Voltage [V] | Frequency error [Hz] | Frequency [MHz] | Error in % | Error in ppm |
|--------------|--------------|-------------|----------------------|-----------------|------------|--------------|
| 0,85 | 48 | 40,80 | 22 | 490 | 0,00000045 | 0,0449 |
| 0,88 | | 42,24 | 22 | 490 | 0,00000045 | 0,0449 |
| 0,90 | | 43,20 | 22 | 490 | 0,00000045 | 0,0449 |
| 0,93 | | 44,64 | 22 | 490 | 0,00000045 | 0,0449 |
| 0,95 | | 45,60 | 22 | 490 | 0,00000045 | 0,0449 |
| 0,98 | | 47,04 | 22 | 490 | 0,00000045 | 0,0449 |
| 1,00 | | 48,00 | 22 | 490 | 0,00000045 | 0,0449 |
| 1,03 | | 49,44 | 22 | 490 | 0,00000045 | 0,0449 |
| 1,05 | | 50,40 | 22 | 490 | 0,00000045 | 0,0449 |
| 1,08 | | 51,84 | 22 | 490 | 0,00000045 | 0,0449 |
| 1,10 | | 52,80 | 22 | 490 | 0,00000045 | 0,0449 |
| 1,13 | | 54,24 | 22 | 490 | 0,00000045 | 0,0449 |
| 1,15 | | 55,20 | 22 | 490 | 0,00000045 | 0,0449 |



LIMITS

SUBCLAUSE § 90.213

Power Supply Voltage – Frequency Stability of 0.0005% from 85% to 115% of nominal voltage

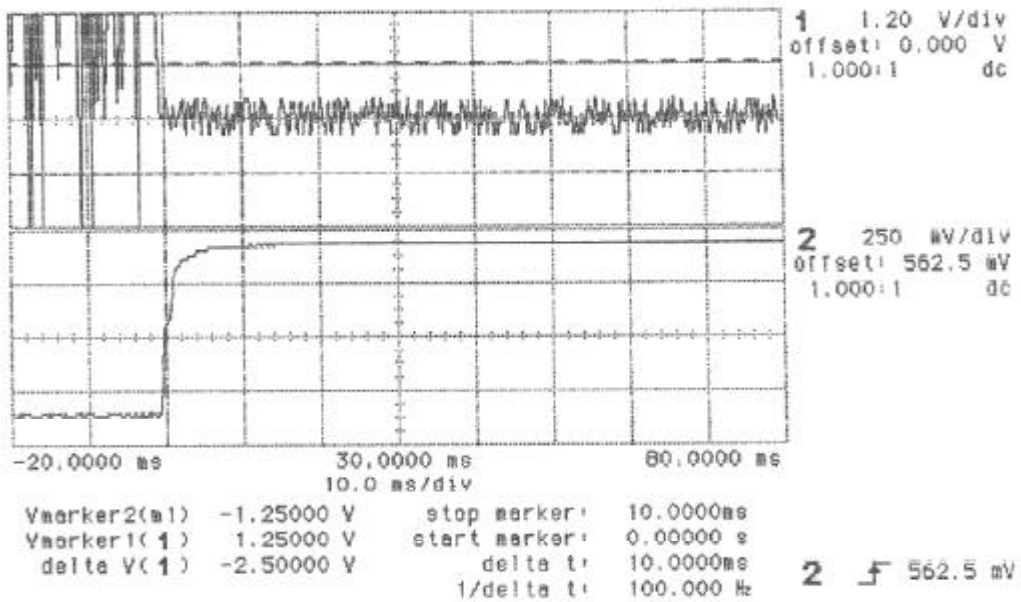
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
 (for reference numbers see test equipment listing)

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

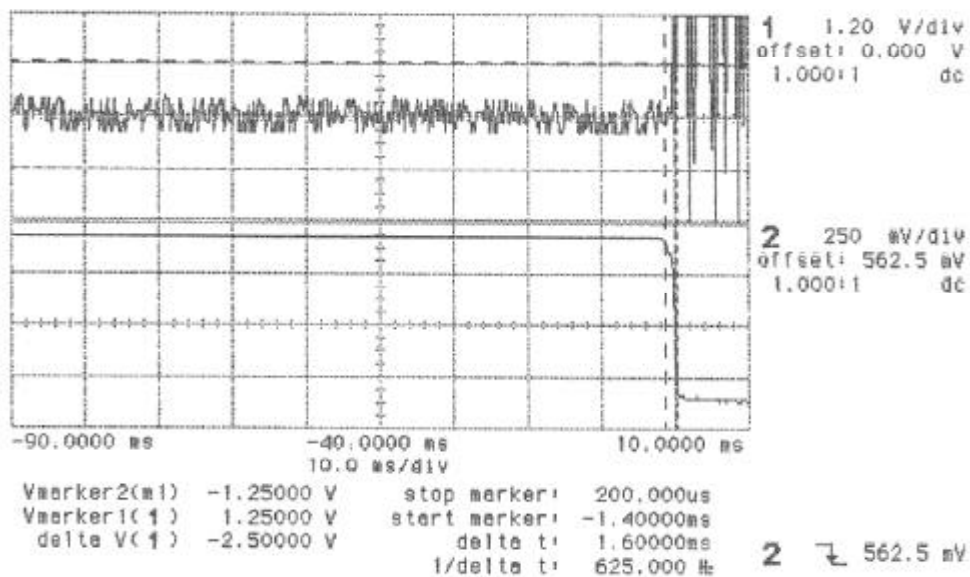
TRANSIENT FREQUENCY BEHAVIOR §90.214

440 MHz

hp awaiting trigger



hp awaiting trigger



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

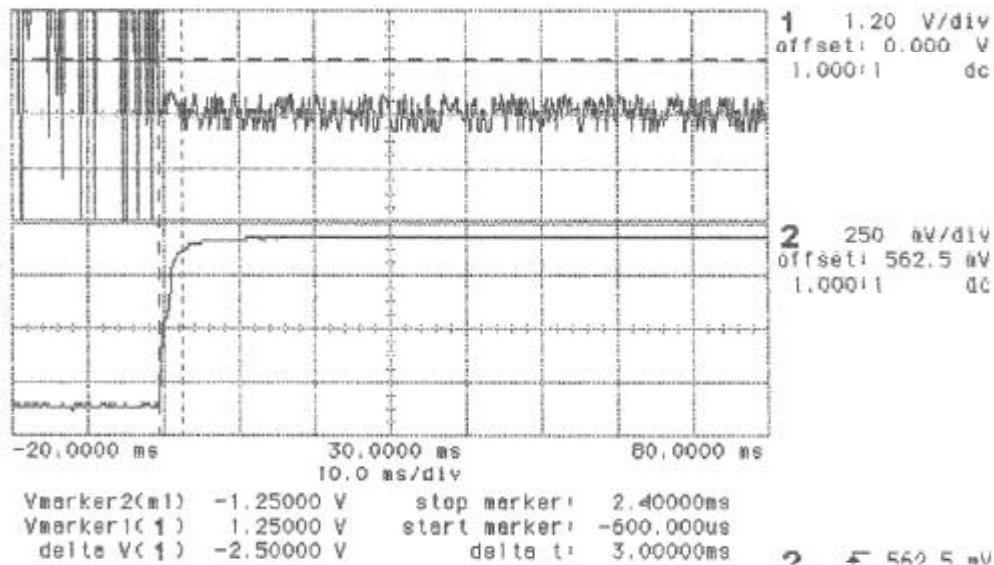
(for reference numbers see test equipment listing)

07, 64 , 66 -68

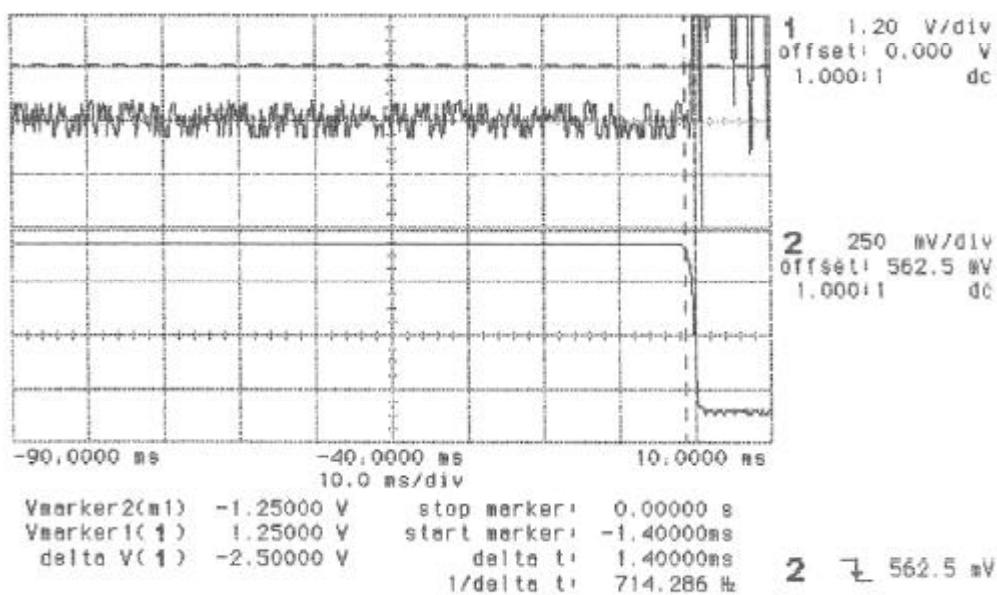
Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

**TRANSIENT FREQUENCY BEHAVIOR §90.214
 450 MHz**

hp awaiting trigger



hp awaiting trigger



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

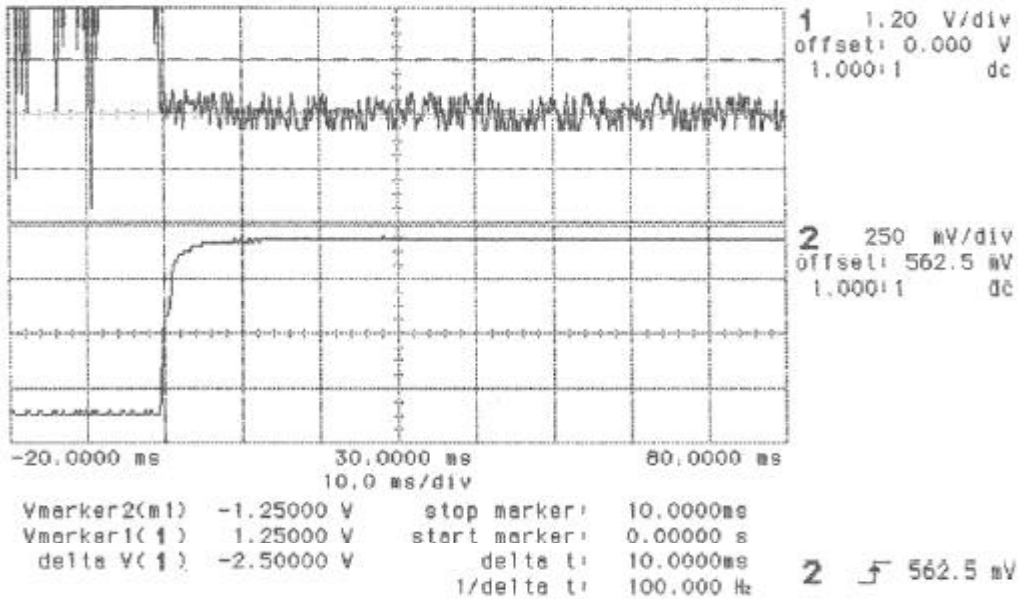
(for reference numbers see test equipment listing)

07, 64 , 66 -68

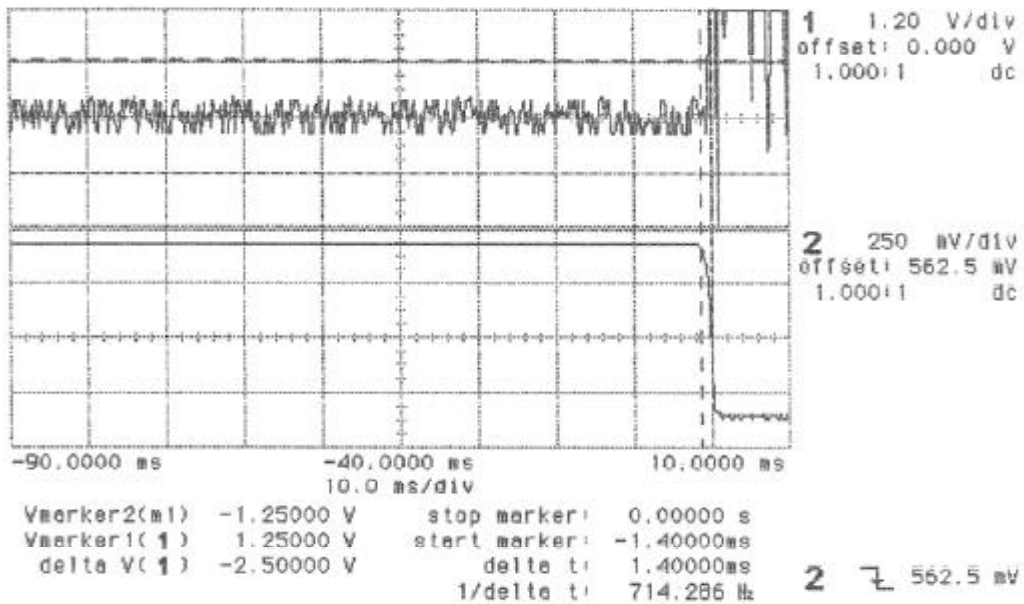
Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

**TRANSIENT FREQUENCY BEHAVIOR §90.214
 460 MHz**

Ap awaiting trigger



Ap awaiting trigger



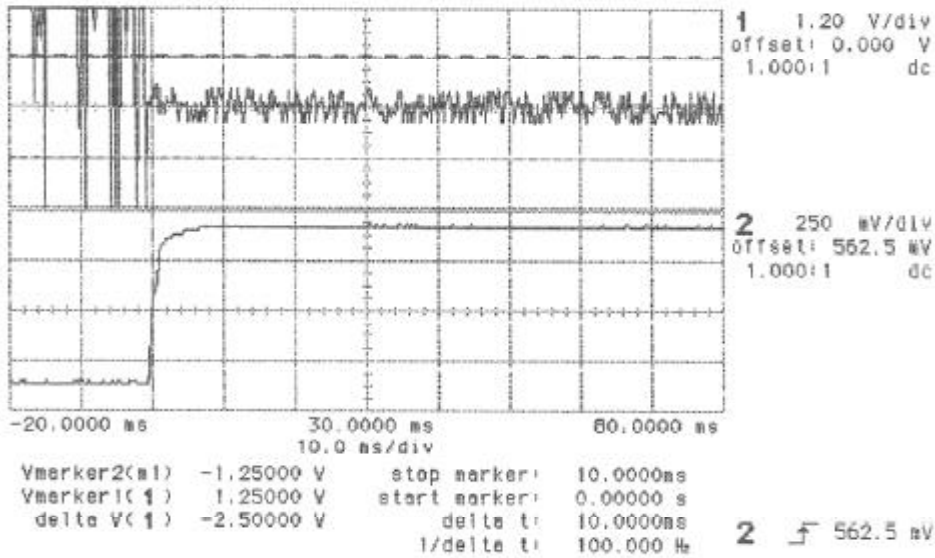
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
 (for reference numbers see test equipment listing)
 07, 64, 66-68

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

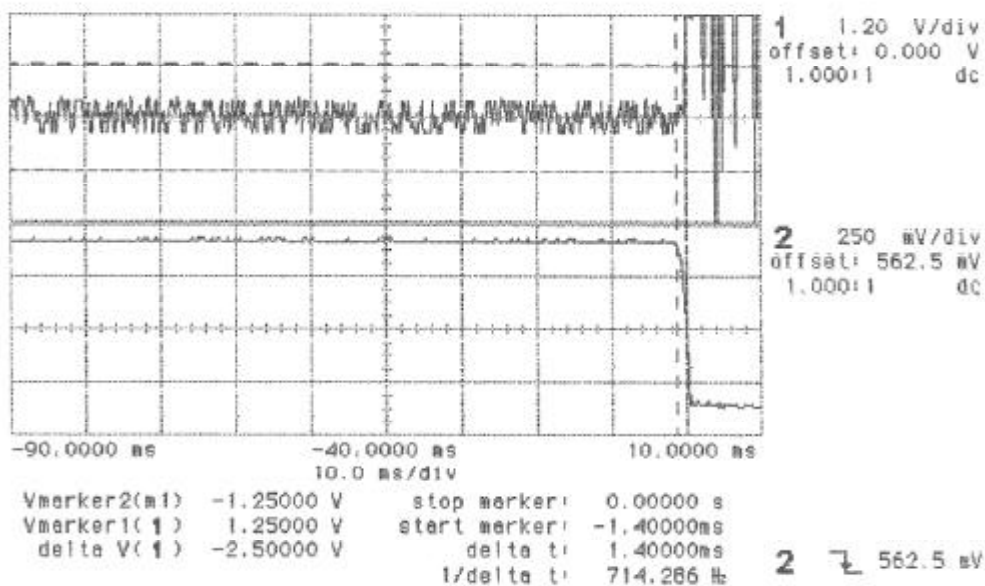
TRANSIENT FREQUENCY BEHAVIOR §90.214

470 MHz

hp stopped



hp swaiting trigger



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

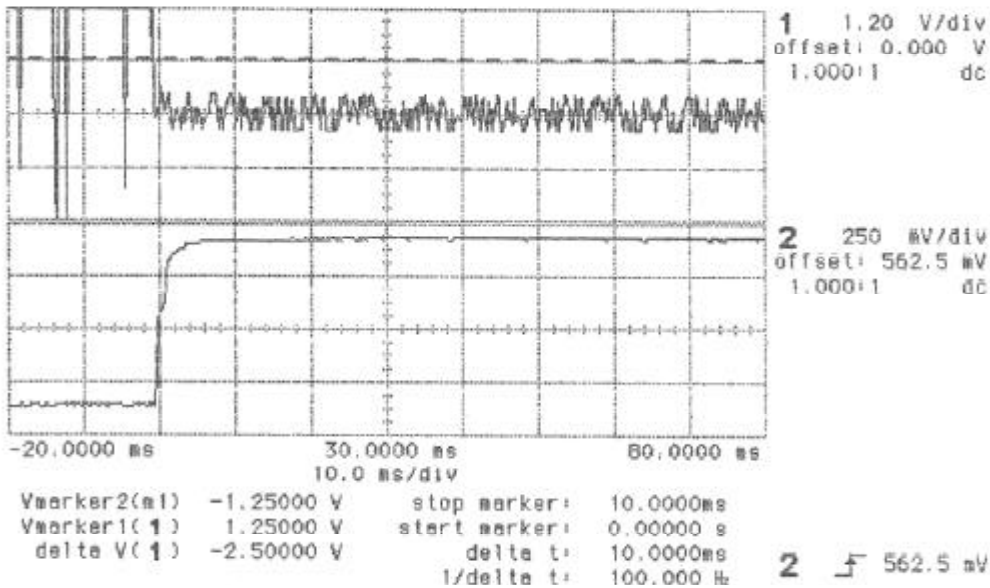
07, 64 , 66 -68

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

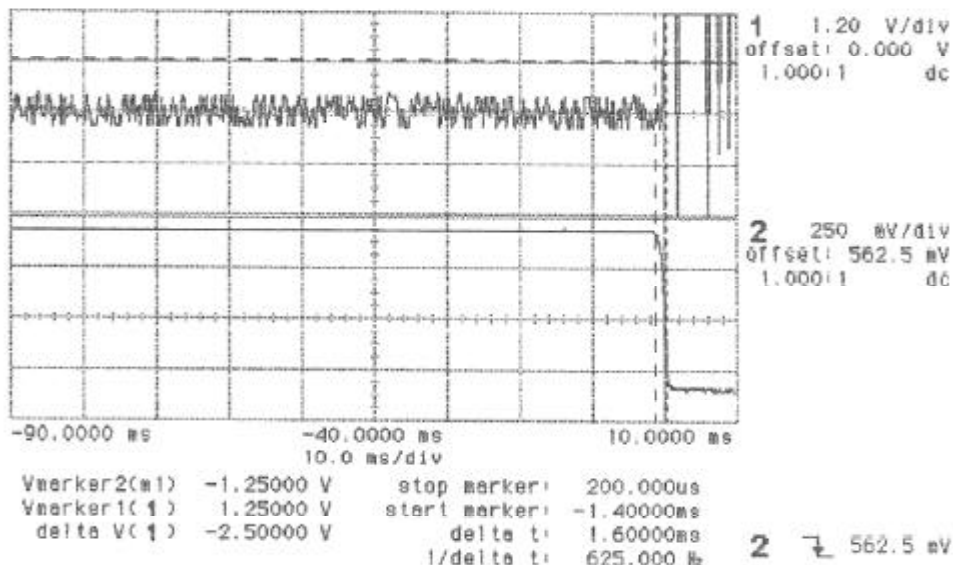
TRANSIENT FREQUENCY BEHAVIOR §90.214

490 MHz

hp awaiting trigger



hp awaiting trigger



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

07, 64 , 66 -68

Equipment under test : MC9600 BS8 G2
Ambient temperature : 23° C
Relative humidity : 43%

This measurements are done in accordance with TEST SET-UP PROCEDURES used for Submitted Data.(2.2.19 of the TIA/EIA 603, specifically the triggering level was set in a different manner, as described in the TEST SET-UP PROCEDURES used for Submitted Data).

LIMITS

SUBCLAUSE § 90.214

| Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels | | | |
|---|------------------------------|----------------|----------------|
| | Maximum frequency difference | 150 to 174 MHz | 421 to 512 MHz |
| t ₁ | ±12.5 kHz | 5.0 ms | 10.0 ms |
| t ₂ | ±6.25 kHz | 20.0 ms | 25.0 ms |
| t ₃ | ±12.5 kHz | 5.0 ms | 10.0ms |

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

07, 64 , 66 -68

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

RECEIVER SPURIOUS RADIATION

§ 15.209

Radiated

| SPURIOUS EMISSIONS LEVEL (µV/m) | | | | | | | | |
|---------------------------------|-----------------------|--------------|---------|----------|--------------|---------|----------|--------------|
| CH 1 – CH 8 | | | | | | | | |
| f (MHz) | Detector Polarisation | Level (µV/m) | f (MHz) | Detector | Level (µV/m) | f (MHz) | Detector | Level (µV/m) |
| 31.8 | QP / H | 31.5 | | | | | | |
| 31.5 | QP / V | 28.7 | | | | | | |
| 456.59 | QP / H | 38.6 | | | | | | |
| 456.59 | QP / V | 38.0 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Measurement uncertainty | | | ±3 dB | | | | | |

f < 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

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)

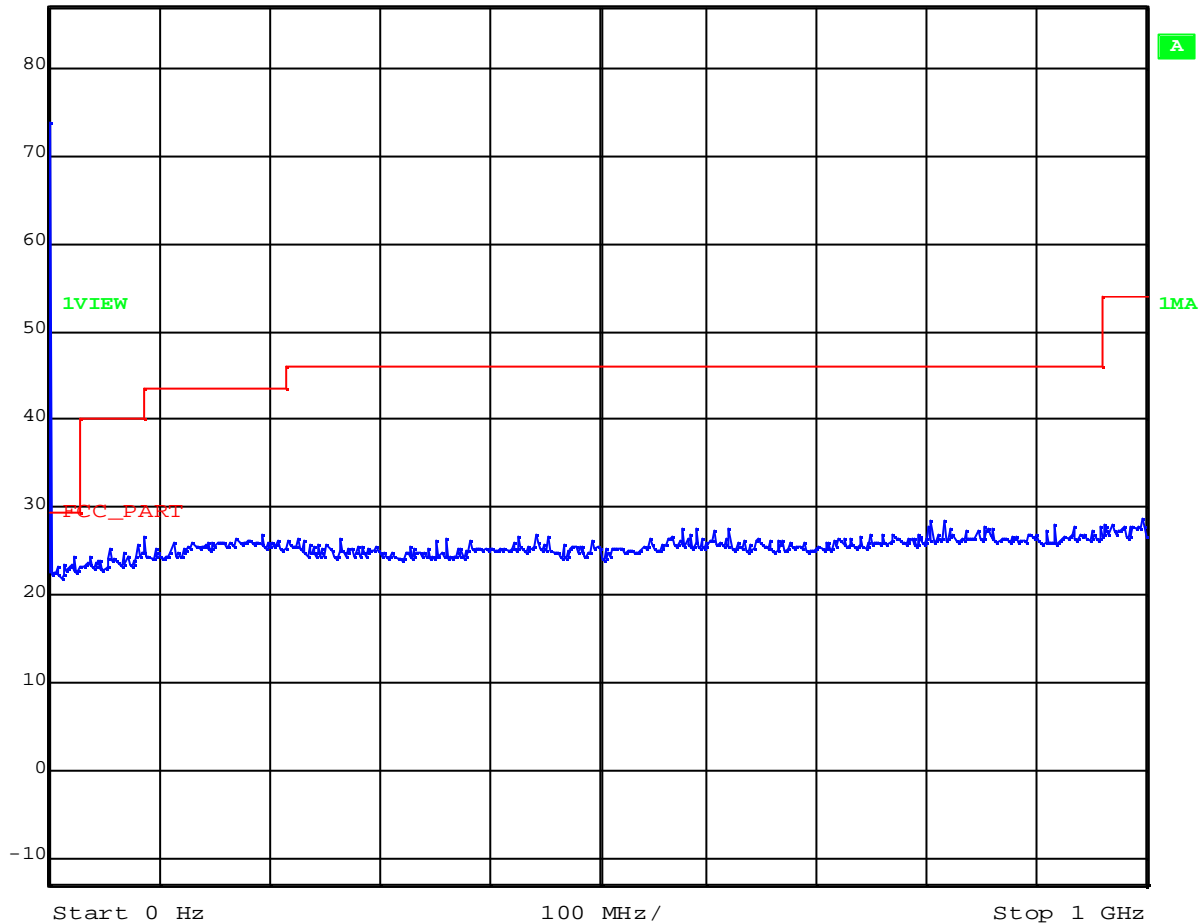
Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

RECEIVER SPURIOUS EMISSIONS (conducted) § 15.209



Ref Lvl
87 dBµV

RBW 100 kHz RF Att 10 dB
 VBW 100 kHz
 SWT 250 ms Unit dBµV



Date: 16.JUL.2001 12:48:36

f < 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

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)

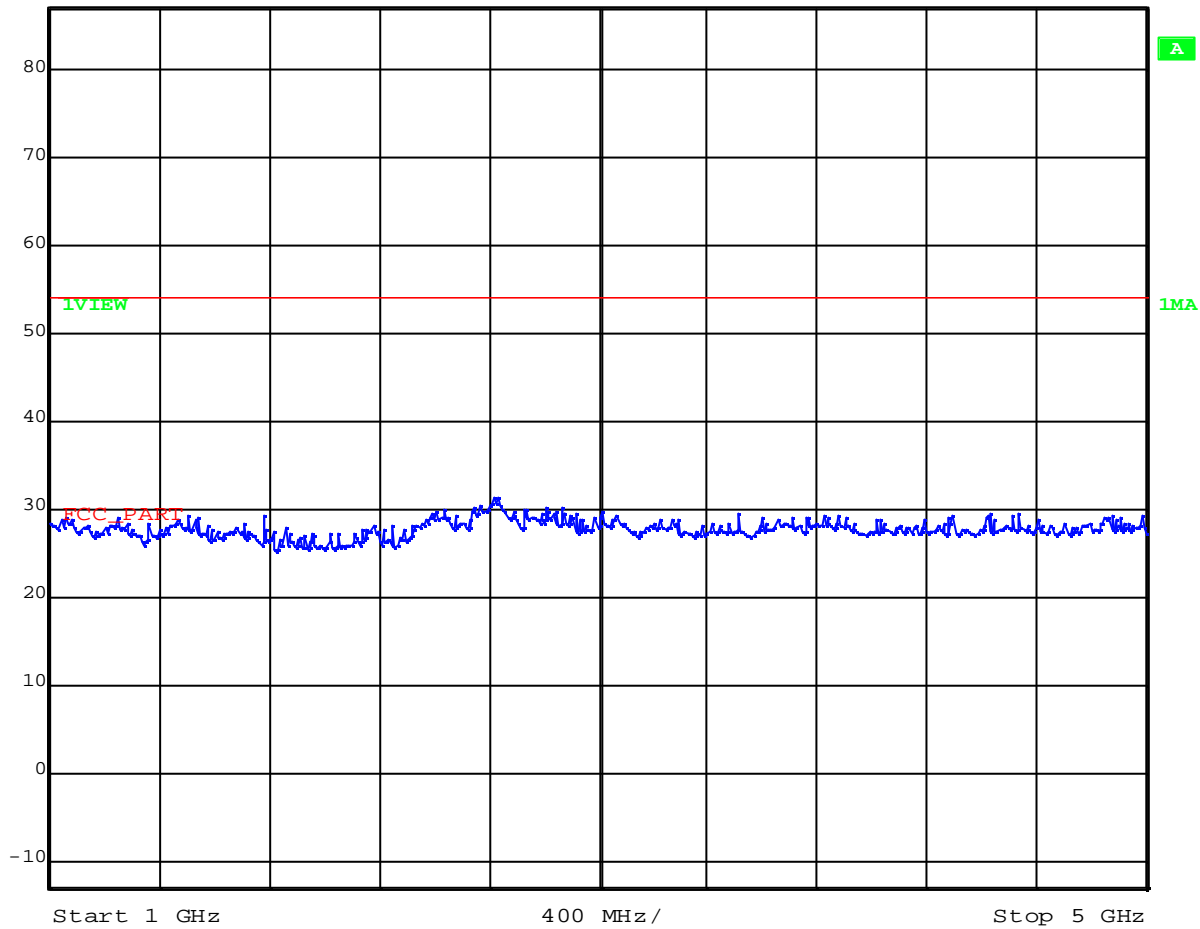
Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

RECEIVER SPURIOUS EMISSIONS (conducted) § 15.209



Ref Lvl
87 dBµV

RBW 100 kHz RF Att 10 dB
 VBW 100 kHz
 SWT 1 s Unit dBµV



Date: 16.JUL.2001 12:49:17
 f < 1 GHz : RBW/VBW: 100 kHz f ≥ 1GHz : RBW/VBW: 1 MHz

Limits

SUBCLAUSE § 15.209

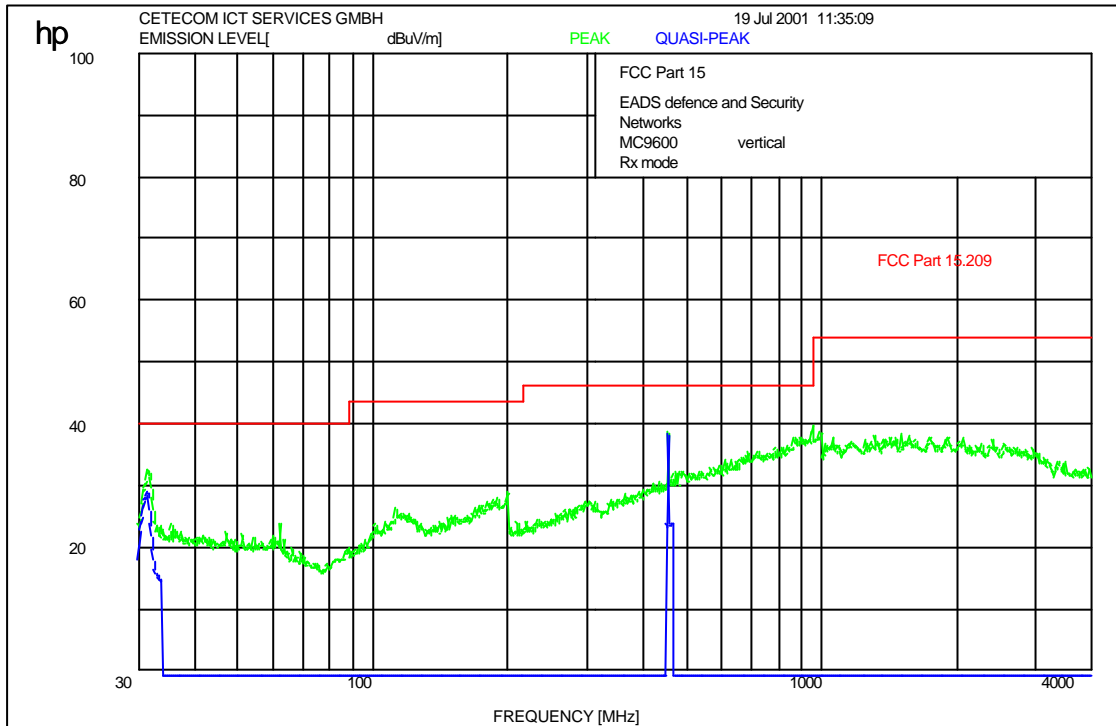
| Frequency (MHz) | Field strength (µV/m) | Measurement distance (m) |
|-----------------|-----------------------|--------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960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

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

RECEIVER SPURIOUS RADIATION

§ 15.209



$f < 1 \text{ GHz}$: RBW/VBW: 100 kHz

$f \geq 1 \text{ GHz}$: RBW/VBW: 1 MHz

Limits

SUBCLAUSE § 15.209

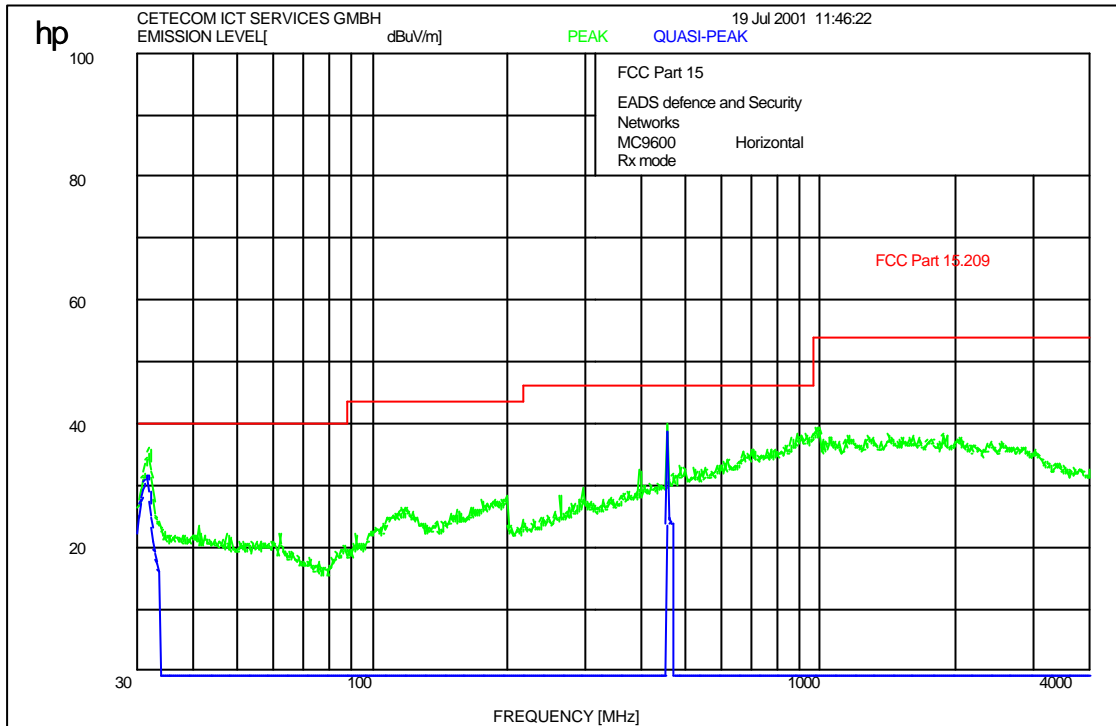
| Frequency (MHz) | Field strength ($\mu\text{V/m}$) | Measurement distance (m) |
|-----------------|------------------------------------|--------------------------|
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| above 960 | 500 | 3 |

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

RECEIVER SPURIOUS RADIATION

§ 15.209



f < 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

Limits

SUBCLAUSE § 15.209

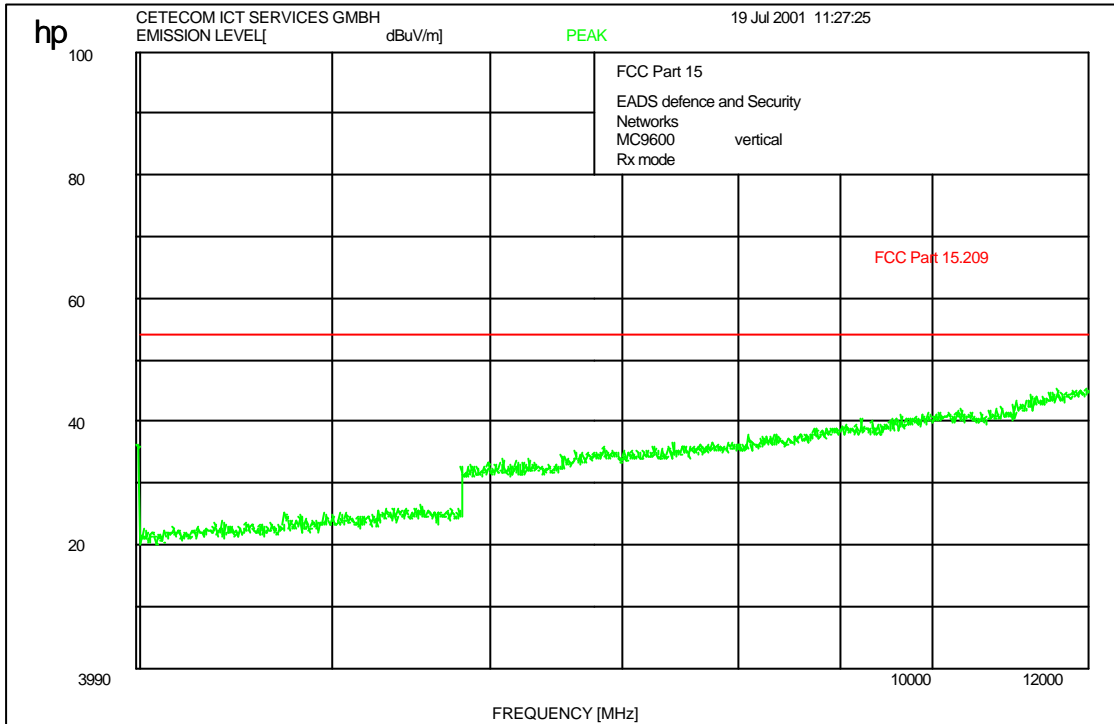
| Frequency (MHz) | Field strength (µV/m) | Measurement distance (m) |
|-----------------|-----------------------|--------------------------|
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| above 960 | 500 | 3 |

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

Equipment under test : MC9600 BS8 G2
 Ambient temperature : 23° C
 Relative humidity : 43%

RECEIVER SPURIOUS RADIATION

§ 15.209



f < 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

Limits

SUBCLAUSE § 15.209

| Frequency (MHz) | Field strength (µV/m) | Measurement distance (m) |
|-----------------|-----------------------|--------------------------|
| 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)

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 Reciever | 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 |
| 65 | Spectrum Analyzer | HP 8565E | Hewlett Packard | 3473A00773 |
| 66 | Bidirektionalkoppler | DC 3010 | Amplifier res. | 12306 |
| 67 | Oscilloscope | 54502A | HP | 2934A01917 |
| 68 | Radiocommunic.Analyz. | 4040 | Schlumberger | 1725117 |

Photographs of the equipment

