

**ADDENDUM 1 TO TEST REPORT OF A
2.4 GHz RLAN ACCESS POINT TRANSCEIVER,
BRAND GEMTEK, MODEL NUMBER WX-1520,
IN CONFORMITY WITH
FCC PART 15 AND ANSI C63.4-1992**

FCC report layout endorsed by the FCC by Public
Notice of March 11, 1992.

Accredited by	:	STERLAB accreditation number L029 D.A.R., TTI-P-G.127/96-00
Competent body	:	Article 10-2 EMC Directive
Notified body	:	Article 10-5 EMC Directive Low Voltage Directive Number 0122 TTE Directive
Designated laboratory	:	TTE Directive
Notified test service	:	Automotive Directive
FCC listed	:	31040/SIT
VCCI listed	:	R 592 and C 507
Certification body	:	Electrical Products Safety Regulation Hong Kong

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Tinton Falls NJ (USA), Kawasaki (Japan), Hortolândia SP (Brazil)

Subsidiary companies:

NMI Certin B.V. (27233418)

NMI Van Swinden Laboratorium B.V. (27228703)

NMI International B.V. (27239176)

ADDENDUM 1 TO MEASUREMENT/TECHNICAL REPORT

GemTek

Modelnumber : WX-1520

FCC ID: MXF-WX1520

September 4, 2000

This report concerns (check one):		Original grant	Class II change
Equipment type: Direct Sequence Spread Spectrum Transceiver			
Deferred grant requested per 47 CFR 0.457(d)(1)(ii)?		Yes	no
If yes defer until: _____			
GemTeK, No. 1, Jen Ai Road, Hokuo Hsiang, Hsinchu Hsien, Taiwan, R.O.C. agrees to notify the Commission by _____ of the intended date of announcement of the product so that the grant can be issued on that date.			
Transition Rules Request per 15.37		yes	no
If no, assumed Part 15, Subpart B for unintentional radiators – the new 47 CFR (10-1-90 Edition) provision.			
Report prepared by:	Name	: D. S. Sariredjo BSc. E.E.	
	Company name	: NMI Certin B.V.	
	Address	: Smidshornerweg 18	
	Telephone number	: + 31-59450-50 05	
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	Mailing address	: P.O. Box 15	
	City/Place/Postal cd.	: 9822 ZG NIEKERK	
	Country	: The Netherlands	

The data taken for this test and report herein was done in accordance with FCC Part 15 and measurement Procedures of ANSI C63.4-1992 and were relevant the procedures as specified in the sheets from the FCC attached to this test report. NMI Certin B.V. at Niekerk, The Netherlands, certifies that the data is accurate and contains a true representation of the emission-profile of the Equipment Under Test (EUT) on the date of the test noted in the test report. I have reviewed the test report and find it to be an accurate description of the test(s) performed and the EUT so tested.

Date: September 4, 2000

Signature:

P.A.J.M. Robber BSc. EE
Department EMC and Telecommunication

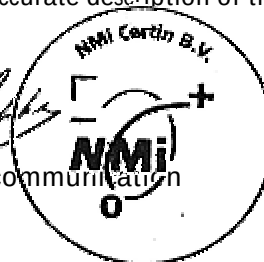
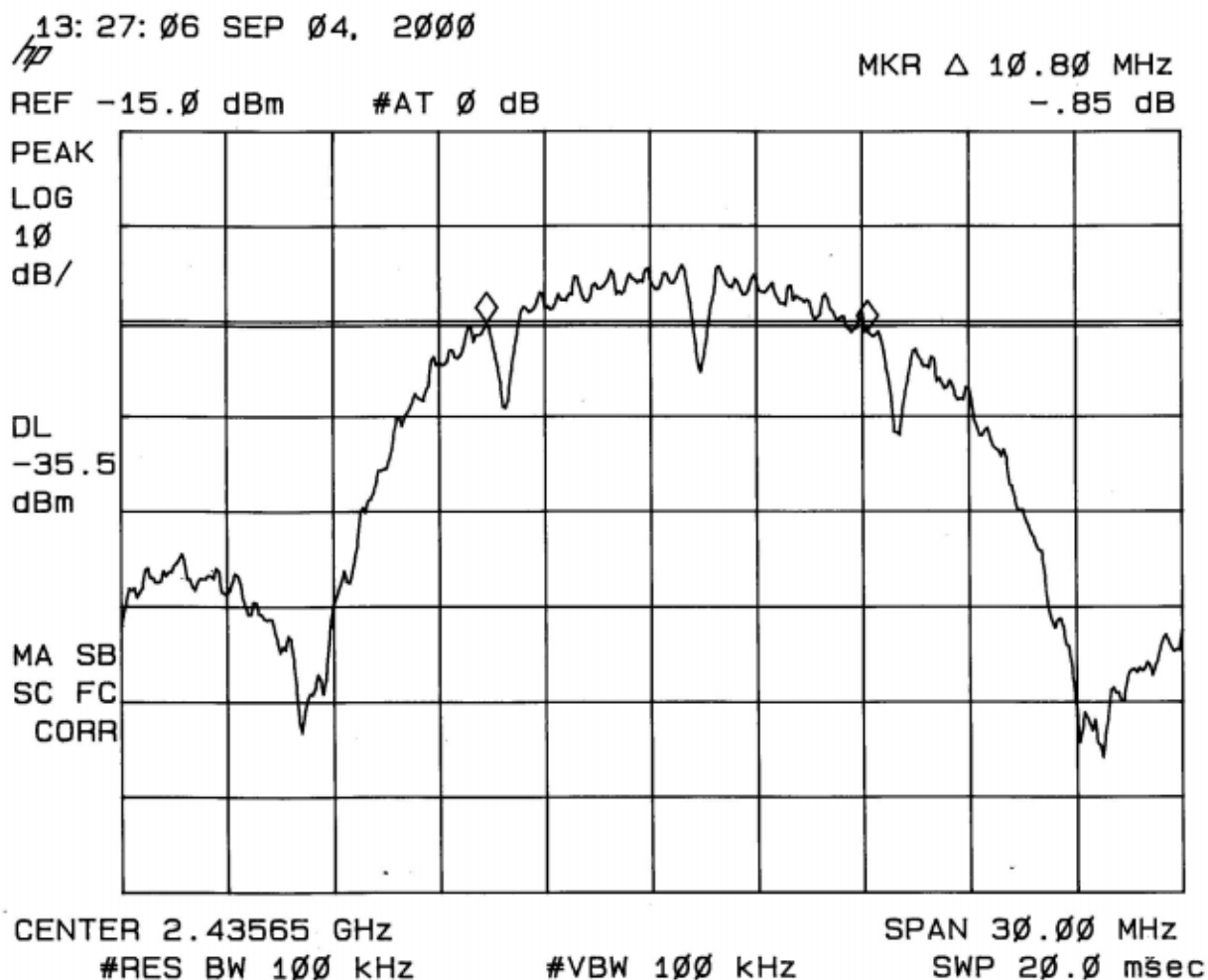


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1 -6 dB Bandwidth measurements.

The minimum 6 dB bandwidth measurement was performed in accordance with FCC 15.247 (a)

1.1 Channel 6 at 1.0 Mbps



Plot 1.1: -6 dB bandwidth plot of channel 6 at 1.0 Mbps

Modulation = 1.0 Mbps

The minimum -6 dB modulated bandwidth : 10.8 MHz.

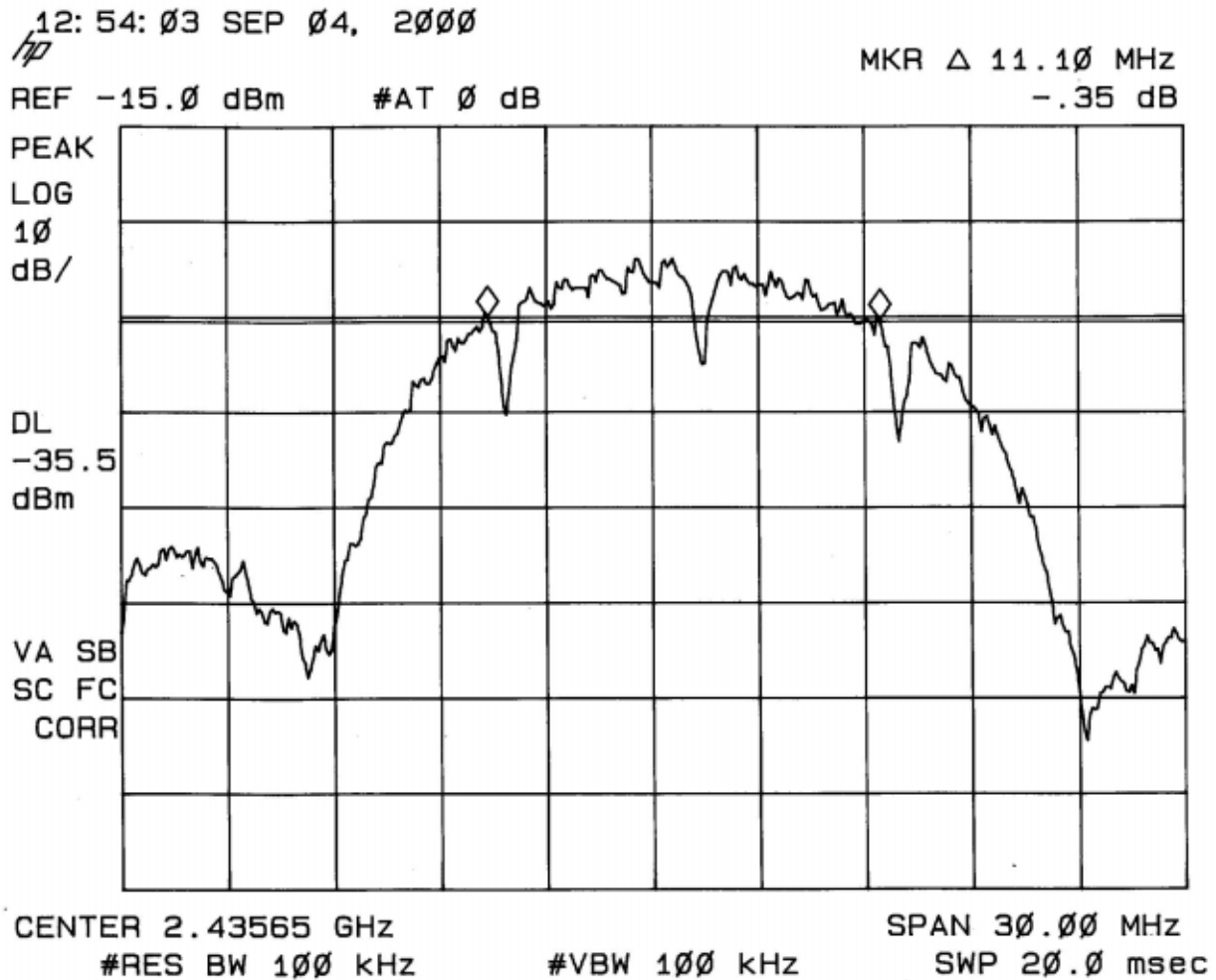
Test engineer:

Signature : 
Printed name :

O.H. Hoekstra

Date: September 4, 2000

1.2 Channel 6 at 2.0 Mbps



Plot 1.2: -6 dB bandwidth plot of channel 6 at 2.0 Mbps

Modulation = 2.0 Mbps

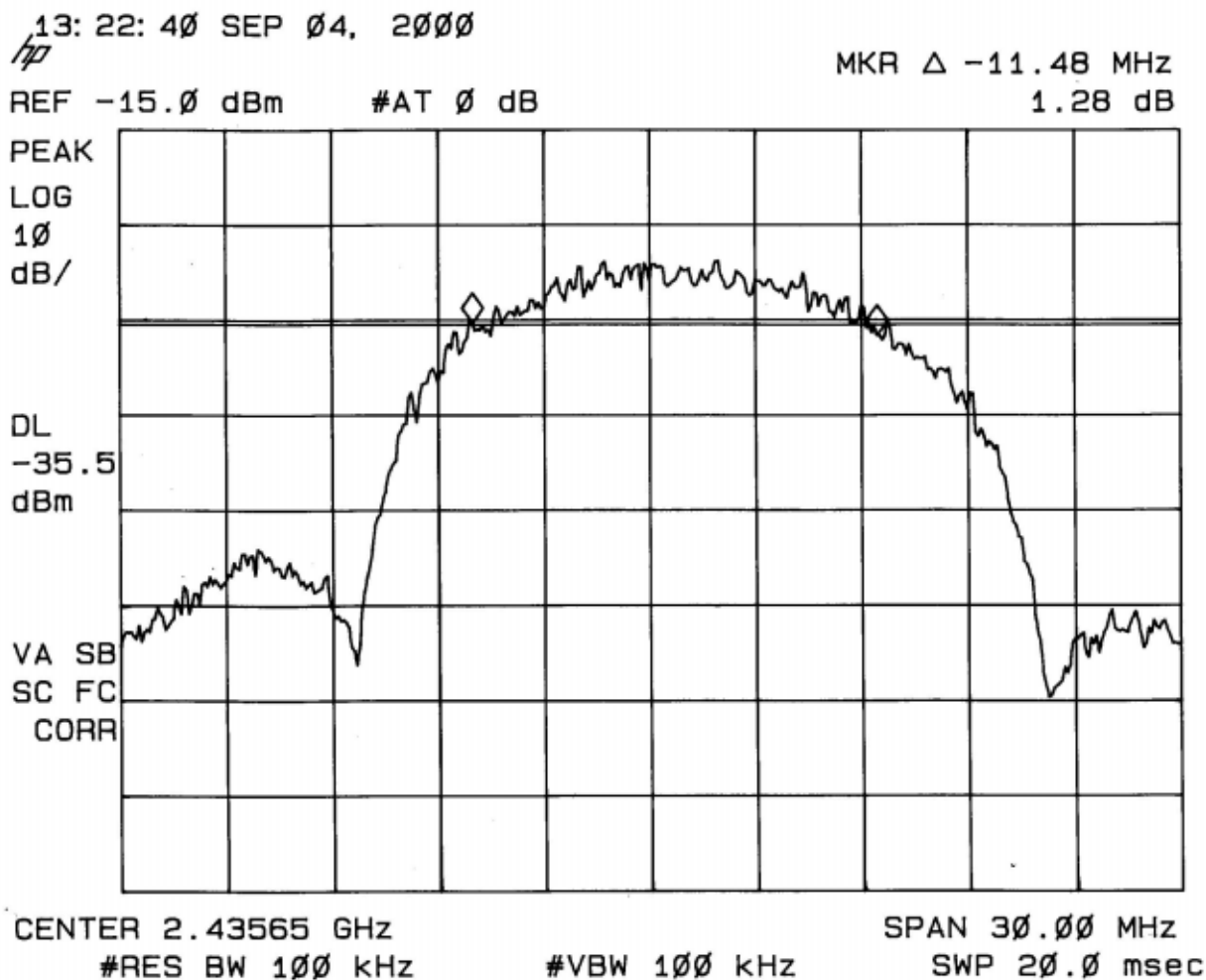
The minimum -6 dB modulated bandwidth : 11.1 MHz.

Test engineer:

Signature : 
Printed name : O.H. Hoekstra

Date: September 4, 2000

1.3 Channel 6 at 5.5 Mbps

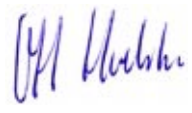


Plot 1.3: -6 dB bandwidth plot of channel 6 at 5.5 Mbps

Modulation = 5.5 Mbps

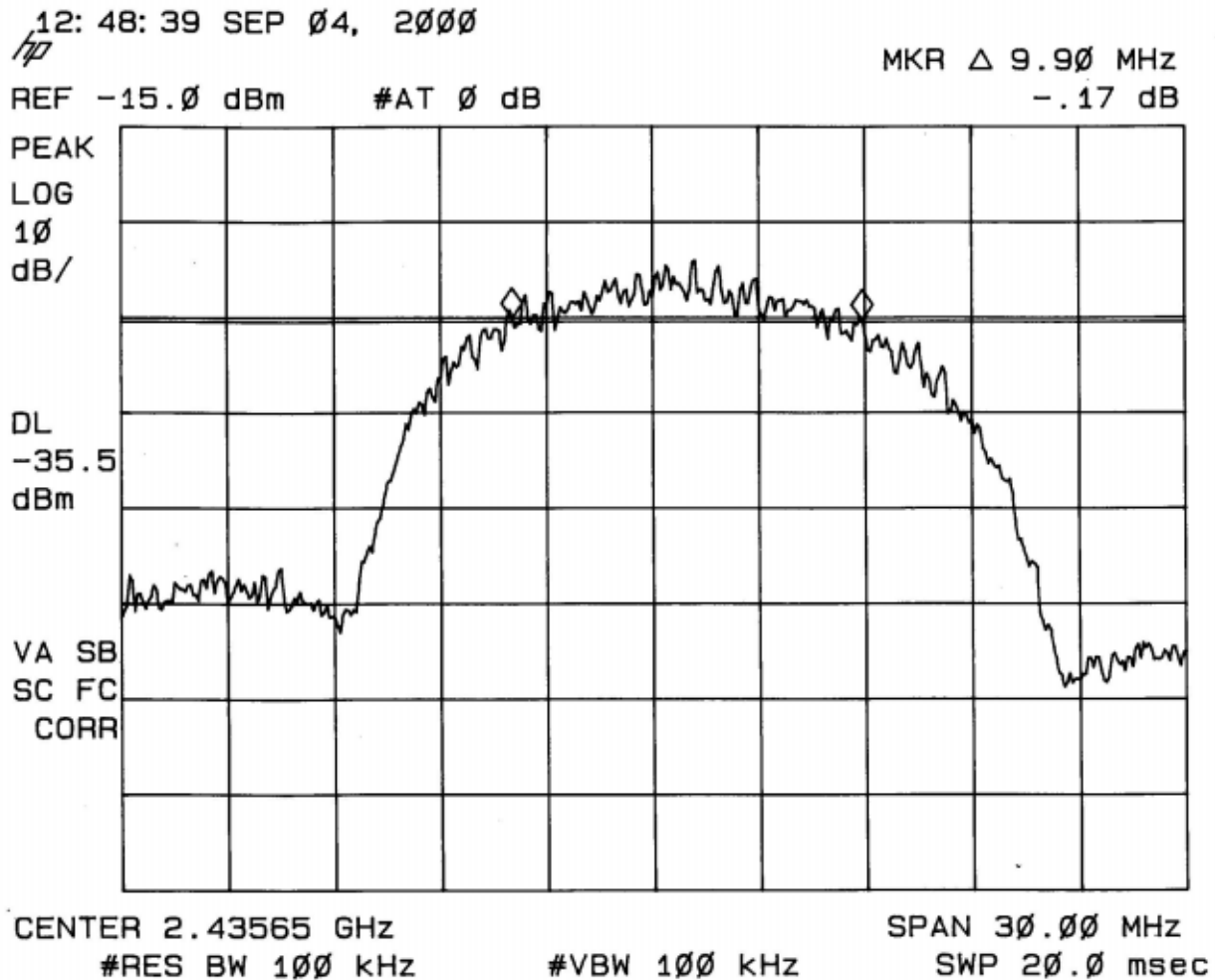
The minimum -6 dB modulated bandwidth : 11.48 MHz.

Test engineer:

Signature : 
Printed name : O.H. Hoekstra

Date: September 4, 2000

1.4 Channel 6 at 11.0 Mbps



Plot 1.4: -6 dB bandwidth plot of channel 6 at 11.0 Mbps

Modulation = 11.0 Mbps

The minimum -6 dB modulated bandwidth : 9.9 MHz.

Test engineer:

Signature :



Date: September 4, 2000

Printed name :

O.H. Hoekstra

2 Peak power

The peak power measurement was performed in accordance with FCC 15.247 (b). The plot is made with the highest bandwidth being worst case. The maximum value is then marked and the peak value of this signal is measured using a wideband diode detector.

In accordance with FCC 15.31 (e) the variation of supply voltage between 85% and 115% is performed to show the effect on the signal level of the fundamental frequency component of emission.

Channel	Peak Power (dBm) at 5.00 VDC (100 % of nominal)	Peak Power (dBm) at 4.25 VDC (85% of nominal)	Peak Power (dBm) at 5.75 VDC (115% of nominal)
1	15.4	15.4	15.5
6	15.1	15.0	15.1
11	15.0	14.8	15.2

Table 2.1: Peak Power

Test engineer:

Signature : 

Date: September 4, 2000

Printed name : O.H. Hoekstra

3 Restricted bands of operation.

The following plots show the maximum emissions at the band edge on the left side.

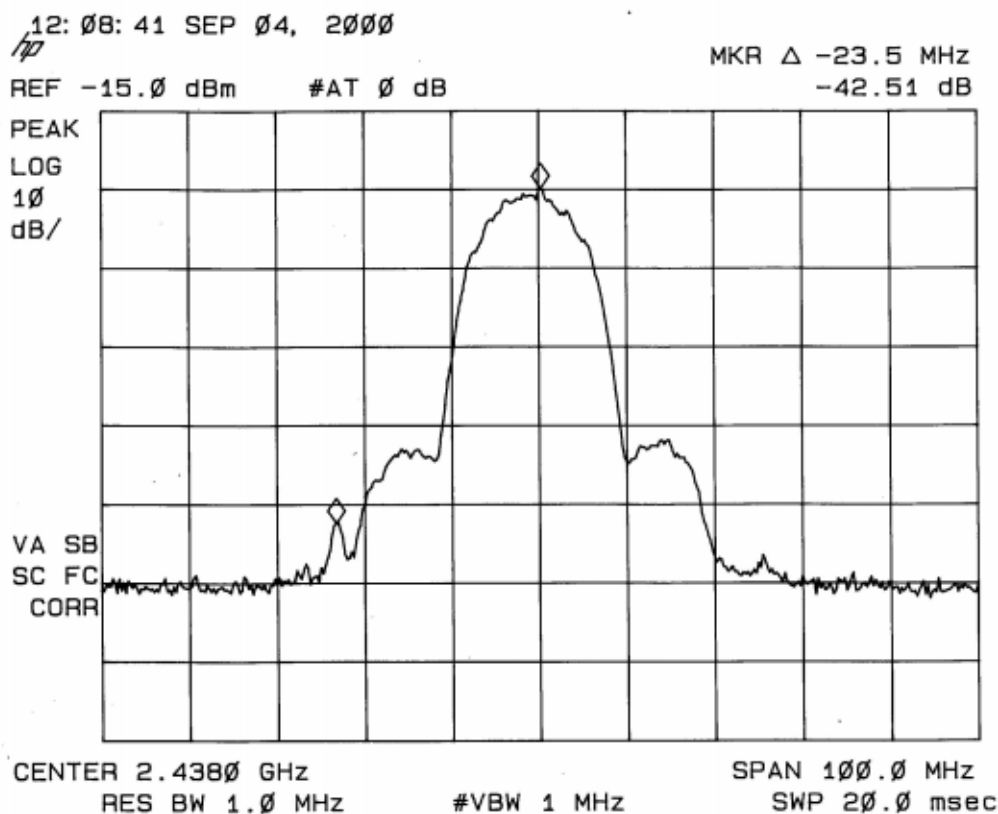
Step 1:

Fundamental emission on channel 6 is 81.5 dBμV/m at 3m (peak)

Step 2:

Amplitude delta is -42.51 dB, so emission level 39.0 dBμV/m at 3m (peak)

Limit for emissions > 960MHz is 54.0 dBμV/m at 3m.



Plot 3.1: Radiated emissions at left band edge

Test engineer:

Signature :



Date: September 4, 2000

Printed name :

O.H. Hoekstra