IBM Japan Ltd.
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Kanagawa-ken 242-8502, Japan

To whom this may concern

January 07, 2003

OET Requested Information

FCC ID : ANOU58H004
Applicant : International Business Machines Corporation
Correspondence Reference Number : 221220.ANO
731 Confirmation Number : TC1397
Original Requested Date : December 20, 2002

Subject 1) Please provide spectrum plots for the 6 dB bandwidth for the lowest data rate mode.
Answer 1) Please refer the pages 9/39 “E. Justification”, 22/39 and 23/39 of the Test_Report.pdf.
The worst case was chosen representatively. i.e. 11Mb/s transmission data rate.
Therefore the plots for the lowest data rate(1M/2M b/s mode) were omitted.

Subject 2) Please confirm if power meter measurements were made using peak or average levels. If reported levels are average levels, remeasure using peak reading measurement instrumentation.
Answer 2) The conducted output power levels were measured with an usual power meter.
These measurements have nothing to do except to connect power sensor and to adjust the correction factor of power meter itself along with the inband frequency.

Subject 3) Please specify how investigation was made to determine the data transmission mode that produces the highest spurious emission levels.
Answer 3) Please refer the page 9/39 “E. Justification”.

Subject 4) Please provide spectrum analyzer spectral plots in the restricted band at 2483.5 to 2500 MHz to show compliance with Section 15.247(c).
Answer 4) Please refer the attachment on the next page.

Sincerely, January 07, 2003

Toshiya Murota,
Staff Engineer, EMC Engineering,
Yamato Laboratory, IBM Japan Ltd.

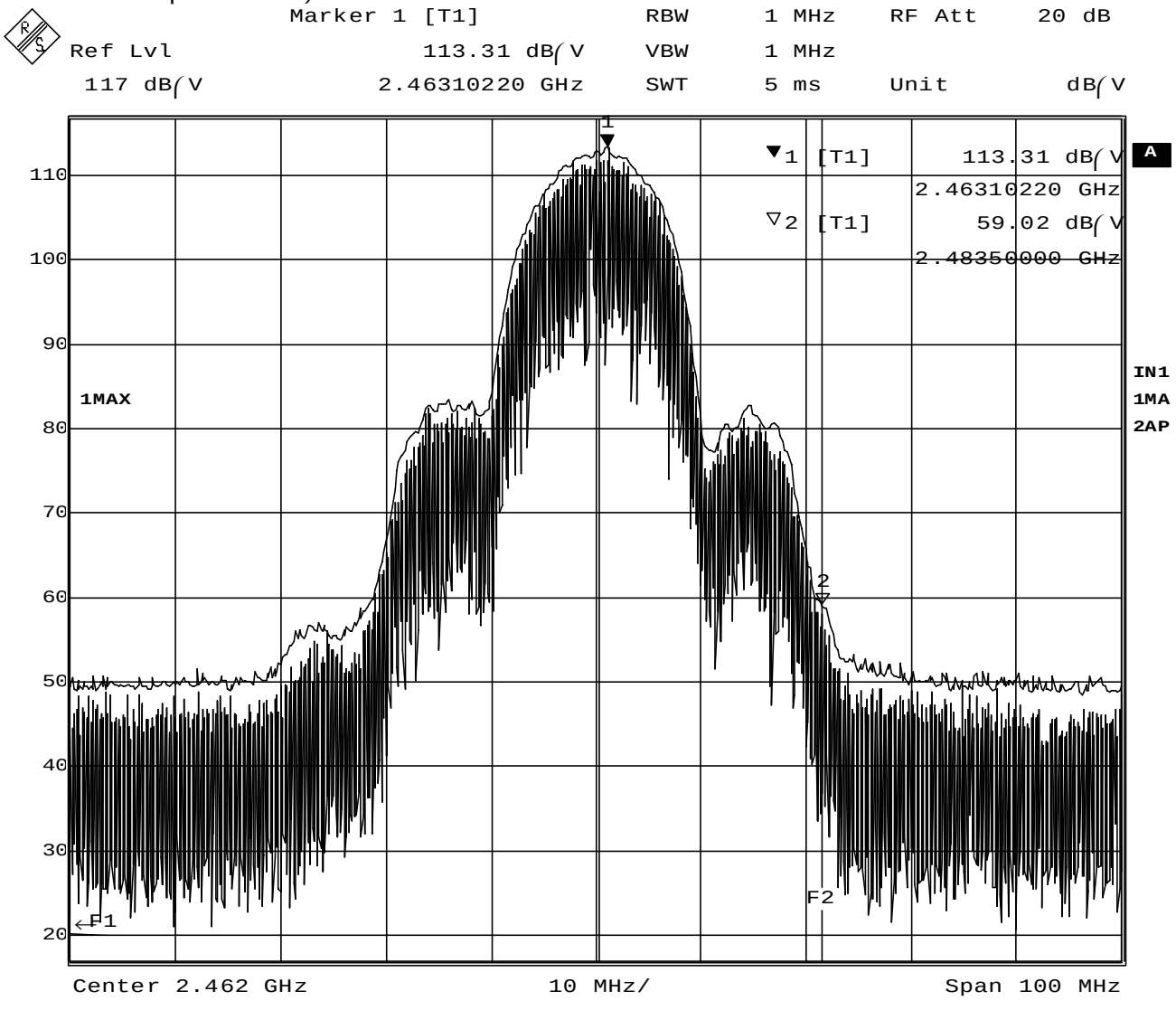
Attachment

Note) The plots of the Test Report, page 39/39. (sweep frequency range: up to 2512 MHz)

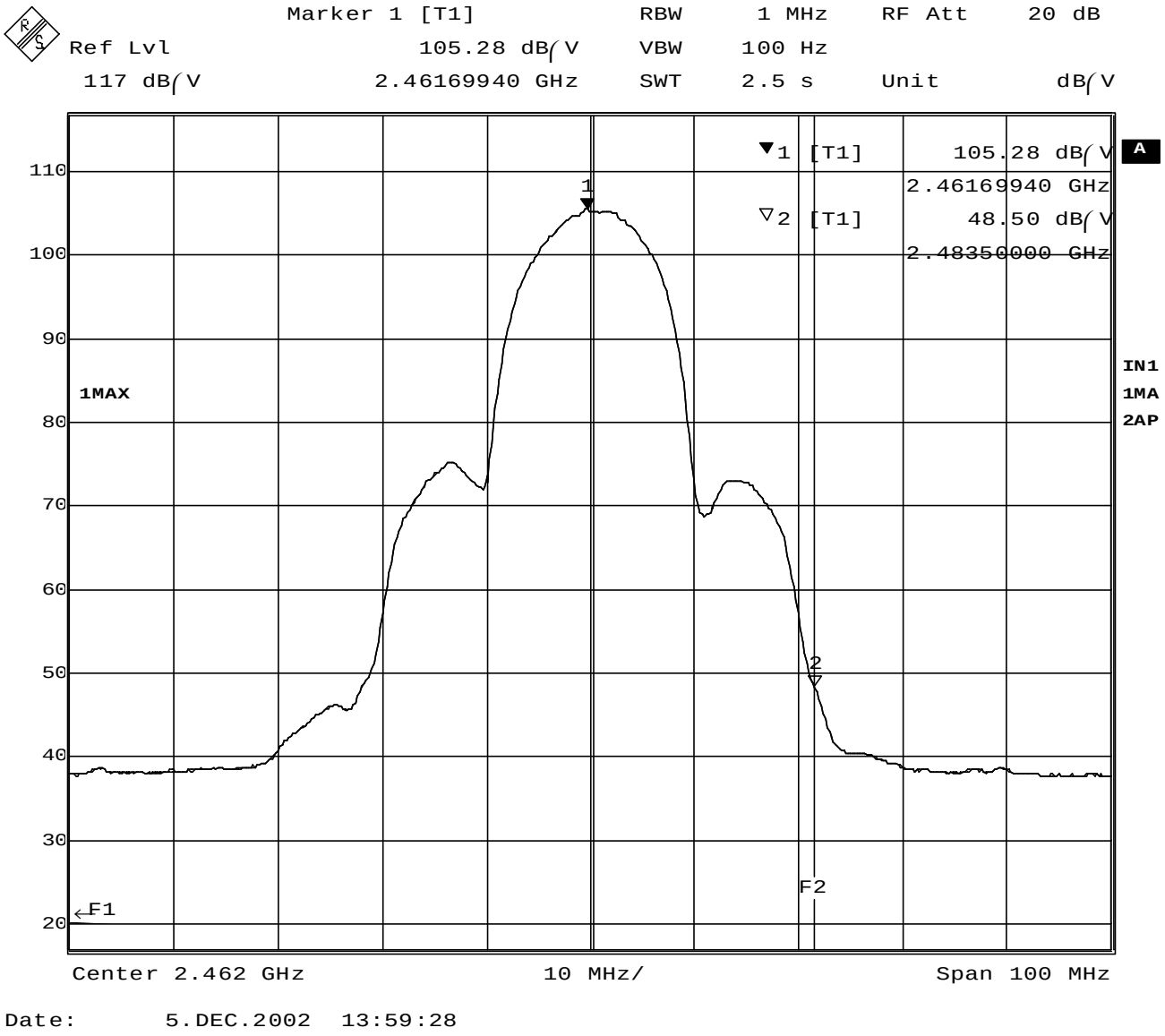
Table 7-2-3. EUT: M/T 2681-3NU, s/n FX-0N14F, Ch.11(2462MHz) TX mode 11Mbps

Frequency (GHz)	Polarity (H/V)	Measured (dBμV) ***(peak)***	Measured (dBμV) ***(average)***	Antenna Factor (dB/m)	Corr. Factor (dB)	Falloff Factor (dB)	Field Strength (dBμV/m) ***(peak)***	FCC Limit (dBμV/m) ***(peak)***	Field Strength (dBμV/m) ***(average)***	FCC Limit (dBμV/m) ***(average)***
1.008	V	47.8	-	24.1	-32.9	0.0	39.0	74.0	-	54.0
1.065	V	50.9	-	24.6	-32.7	0.0	42.8	74.0	-	54.0
1.104	V	48.8	-	24.4	-32.6	0.0	40.6	74.0	-	54.0
1.196	V	51.0	-	25.2	-32.3	0.0	43.9	74.0	-	54.0
2.386	H	49.0	-	28.2	-30.4	0.0	46.8	74.0	-	54.0
2.464	H	113.3	105.3	28.4	-30.2	0.0	111.5	OB*	103.5	OB*
2.484	V	**59.0**	**48.5**	28.4	-30.2	0.0	57.2	74.0	46.7	54.0
4.926	H	54.7	42.2	27	-27.7	0.0	54.0	74.0	41.5	54.0
7.389	V	38.5	-	29.8	-26.2	0.0	42.1	74.0	-	54.0

*Note: OB means “operation band” (2400-2483.5MHz); in this case limit is 1W (measured conducted with power meter).



Ch11. (2462MHz), TX, Peak



Ch11. (2462MHz), TX, Average