

MEASUREMENT/TECHNICAL REPORT

APPLICANT: Sparkle Computer Co., Ltd.

MODEL NO.: SP-5200B

FCC ID: M6952ØØ

This report concerns (check one) : **Original Grant**
 Class II Change

Equipment type: VGA Card

Deferred grant requested per 47CFR 0.457(d)(1)(ii)?

Yes No If yes, defer until: _____ (date)

We, the undersigned, agree to notify the Commission by (date) _____ / _____ / _____ of the intended date of announcement of the product so that the grant can be issued on that date.

Transiyion Rules Request per 15.37?

Yes No

If no, assumed Part 15, Subpart B for unintentional radiator the new 47 CFR (10-1-90 Edition) provision.

Report Prepared

by Testing House : Neutron Engineering Inc.

for Company Name: Sparkle Computer Co., Ltd.

Address: 3F-6, No. 1, Fu Hsing N. Rd., Taipei, Taiwan, R.O.C.

Applicant Signature :

Jack Hsiao

Jack Hsiao/ Manager

CERTIFICATION

We hereby certify that:

The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (1992)/ CISPR22(1996) and the energy emitted by the sample EUT tested as described in this report is in compliance with CLASS B conducted and radiated emission limits of FCC Rules Part 15, Subpart B/ CISPR22(1996).

Prepared by : Carol Chen**Reviewed by :** Vincent Su**Approved by :** George Yao**Issued Date :** Nov. 28, 2000**Report No. :** NEI-FCCB-00154**Company Stamp :****NEUTRON ENGINEERING INC.**

No. 132-1, Lane 329, Sec. 2, Palain Rd.,

Shijr Jen, Taipei, Taiwan

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1. GENERAL INFORMATION

1-1. Product Description

The Sparkle Computer Co., Ltd. Model: SP-5200B (referred to as the EUT in this report) is a VGA Card 32MB on Board with SDRAM/SGRAM.

The summarized feature of EUT as following:

- Hardware acceleration for all Windows GDI operations
- Optimized for multiple color depths including 32, 24, 16, 15, and 8bits per pixel
- True-color hardware cursor
- Hardware color dithering
- Multi-buffering (up to quad buffering) for smooth animation and video playback
- Fast 32-bit VGA/SVGA support
- Maximum resolution of 1920x1200x32 @72Hz
- Second-generation 128-bit Twin Texel architecture
- Complete DirectX 6.0 and 5.0 support
- Single-pass multi-texturing
- 32-bit rendering with destination alpha
- Anti-aliasing: full scene, order independent
- Point-sampled, bilinear, and 8 tap anisotropic filtering
- 100% hardware triangle setup
- Texture Blend support
 - Multi-texture -Reflection maps
 - Bump map -Detail texture
 - Texture modulation -Environmental maps
 - Light maps -Procedural textures
- Per-pixel perspective-correct texture mapping
- Fog, light, mip mapping
- Optimized for Pentium III and K6-2 processors
- Full-screen, full-frame DVD playback
- Advanced support for DirectDraw
- Back-end hardware video scaling for video conferencing and playback
- Hardware color-space conversion(YUV 4:2:0 and 4:2:0)
- Multi-tap X and Y filtering
- Per-pixel color keying
- Multiple video windows with hardware color space conversion and filtering
- DVD sub-picture alpha-blended compositing
- Video acceleration for Direct Show, MPEG-1, MPEG-2, and Indeo
- AGP-4X/2X system bus(AGP 2.0 and AGP 1.0 compliant)
- 64-bit frame-buffer interface, supporting up to 32MB SDRAM/SGRAM

A more detailed and/or technical description of EUT is attached in **User's Manual**.

1-2. Related Submittal(s) / Grant (s)

1-2-1. Models Covered

Models covering in this test report is : SP-5200B

1-2-2. Models Difference

N/A

1-3. Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

Model No.	FCC ID	Equipment	Cable
SP-5200B	M6952ØØ	VGA Card	Add-On Card , Shielded Data Cable
CM753ET	N/A (3)	Monitor	Shielded Data Cable ⁽²⁾ Un-Shielded Power Cord
444	N/A (3)	PC	Un-Shielded Power Cord.
DPU-414	N/A (3)	Printer	Shielded Serial Data Cable Un-Shielded Power Cord
DM-1414V	N/A (3)	Modem	Shielded Parallel Data Cable Un-Shielded Power Cord
FDA-104GA	F42FDA-104G	Keyboard	Shielded Data Cable
M-S34	DZL211029	Mouse	Shielded Data Cable
PVM-1390	AK896APVM1390	TV	Shielded Data Cable ⁽²⁾ Un-Shielded Power Cord

Notes:

(1) EUT submitted for grant.

(2) Monitor's attached video cable without ferrite core.

(3) The support equipment was authorized by Declaration of Conformity.

1-4. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (1992)/CISPR 22(1996). Radiated testing was performed at an antenna to EUT distance 10 meters.

1-5. Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of No. 132-1, Lane 329, Sec. 2, Palain Road, Shijr 221, Taipei, Taiwan, R.O.C. of NEUTRON ENGINEERING INC. This site has been fully described in report dated Jun. 25, 1999 Submitted to your office, and accepted in a letter dated Sep. 02, 1999 (Reg. No. 95335).

2. System Test Configuration

2-1. Justification

The system was configured for testing in a typical fashion (as a customer would normally use it). The EUT (VGA Card) was Added-On to a support equipment-Personal Computer. Peripherals of PC, such as monitor, keyboard, modem and printer were contained in this system in order to comply with the ANSI C63.4/CISPR 22 Rules requirement.

The system was investigated/evaluated by pre-scanning the pixel resolution in follows mode(s):

- the default mode of 640 X 480/31.5KHz
- the middle resolution mode of 1280x1024/91KHz Hsync. 85Hz refresh
- the highest horizontal sweep rate mode of 1600X1200/106KHz Hsync. 85Hz refresh

The system operated in following mode(s) was(were) found to be the worst case during the pre-scanning. This operating mode(s) was(were) tested and used to collect the data included.

- The Max resolution mode and max pixel resolution mode of 1600x1200/106KHz Hsync. 85Hz refresh , NI (for CRT Monitor).
- The middle resolution mode of 1024x768/60KHz Hsync.75Hz refresh, NI(for CRT Monitor).
- TV mode of both S-Video and AV modes.

2-2. EUT Exercise Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software, contained on a 3-1/2 inch disk, was inserted into driver A and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is:

1. Read(write) from(to) mass storage device (Disk).
2. Send "H" pattern to video port device (Monitor).
3. Send "H" pattern to video port device (TV)
4. Send " H " pattern to parallel port device (Printer).
5. Send " H " pattern to serial port device (Modem).
6. Repeated from 2 to 5 continuously.

As the keyboard and mouse are strictly input devices, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.

2-3. Special Accessories

Not available for this EUT intended for grant.

2-4. Equipment Modifications

Not available for this EUT intended for grant.

Applicant Signature:

Jack Hsiao

Date:

Nov. 23, 2000

Type/Printed Name:

Jack Hsiao

Position:

Manager

2.5 Configuration of Tested System

The configuration of tested system is described as the block diagram shown in next page Figure 3.1 and details information of I/O cable and power cord connection are tabulated as Table A and B. The monitor is powered from a floor mounted receptacle (referred to as the wall outlet in the previous described) was tested.

TABLE A - Test Equipment

Item	Equipment	Mfr.	Model/Type No.	I/O Port	FCC ID	Remark
E-1	VGA Card	Sparkle	SP-5200B	AGP Slot	M6952ØØ	EUT
E-2	Monitor	Hitachi	CM753ET	VGA Port	N/A (3)	
E-3	PC	IBM	444		N/A (3)	
E-4	Printer	SII	DPU-414	Printer Port	N/A (3)	
E-5	Modem	ACEEX	DM-1414V	Com Port	N/A (3)	
E-6	Keyboard	Forward	FDA-104GA	PS/2 Port	F42FDA-104G	
E-7	Mouse	HP	M-S34	PS/2 Port	DZL211029	
E-8	TV	SONY	PVM-1390	S-Video/AV Port	AK896APVM1390	

Remark:

- (1) Unless otherwise denoted as EUT in (Remark) column, device(s) used in tested system is a support equipment.
- (2) Unless otherwise marked as * in (Remark) column, Neutron consigns the supporting equipment(s) to the tested system.
- (3) The support equipment was authorized by Declaration of Conformity.

Table B. - Informations Cable Information

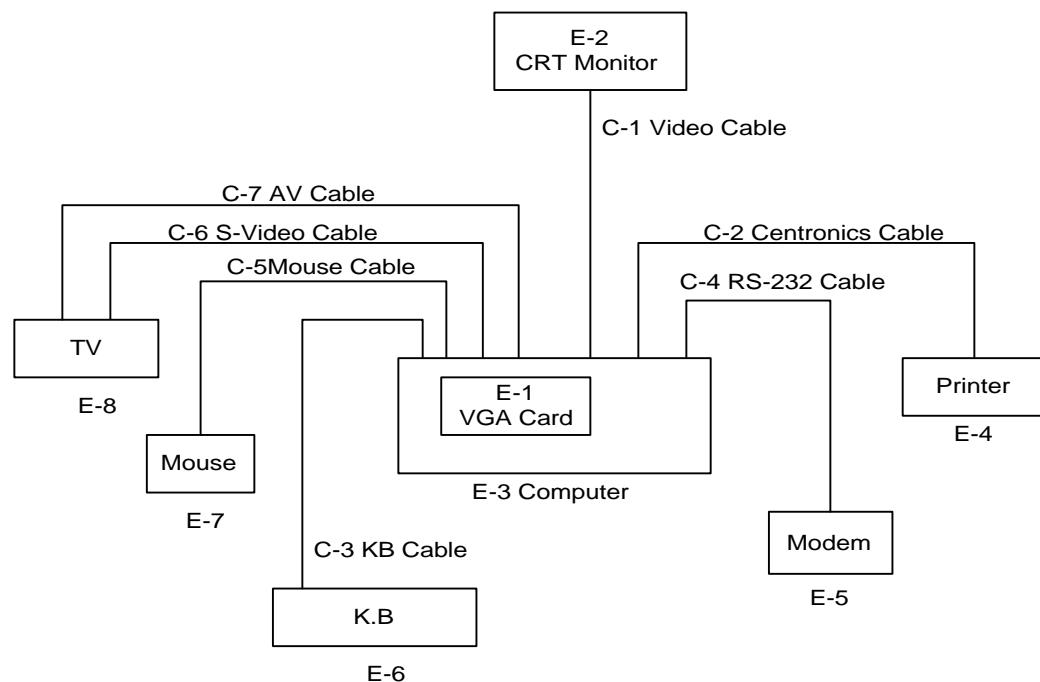
Item	I/O Cable	Device Connected	Shiedled	Ferrite Core	Detachable/Permanently	Note
C-1	Video Cable	EUT-Monitor	Yes	No	Permanently attached on Monitor	
C-2	Centronics Cable	PC-Printer	Yes	No	Part of Printer, Detachable	
C-3	Keyboard Cable	PC-Keyboard	Yes	No	Permanently attached on KB	
C-4	RS-232 Cable	PC-Modem	Yes	No	Part of Modem, Detachable	
C-5	Mouse Cable	PC-Mouse	Yes	No	Permanently attached on Mouse	
C-6	S-Video Cable	EUT-TV	Yes	No	Detachable	
C-7	AV Cable	EUT-TV	No	No	Detachable	

Note:

- (1) Unless otherwise marked as * in (Remark) column, Neutron consigns the supporting equipment(s) to the tested system.

Flgure 2.1 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



3. Block Diagram(s)

Figure 3.1 Block diagram of system, Page 13.A

4. Conducted Emission Data

4.1 The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Judgement: Passed by **-6.72 dB in mode of Line terminal 3.19 MHz**

Test Mode: CRT Monitor 1600x1200/106Hz/85KHz

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Safe Margins (dBuV)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Line	53.16	*	65.94	55.94	-12.78	(QP)
0.72	Line	45.61	36.25	56.00	46.00	-9.75	(AV)
1.26	Line	38.77	*	56.00	46.00	-17.23	(QP)
3.19	Line	45.52	39.28	56.00	46.00	-6.72	(AV)
17.76	Line	47.45	*	60.00	50.00	-12.55	(QP)
0.15	Neutral	51.76	*	66.00	56.00	-14.24	(QP)
0.64	Neutral	45.01	34.68	56.00	46.00	-10.99	(QP)
1.26	Neutral	38.77	*	56.00	46.00	-17.23	(QP)
3.19	Neutral	46.52	39.28	56.00	46.00	-6.72	(AV)
17.85	Neutral	47.46	*	60.00	50.00	-12.54	(QP)

Remark :

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=100KHz, VBW =100KHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of (Note). If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range from 150KHz to 30MHz.

Review:

Vincent Sw

Test Engr.:

Eric

Test Date:

Nov. 23, 2000

4. Conducted Emission Data

4.1 The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Judgement: Passed by **-12.27 dB** in mode of **Neutral** terminal **3.17 MHz**

Test Mode: S-Video Port

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Safe Margins	
		QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
0.15	Line	51.76	*	66.00	56.00	-14.24	(QP)
0.64	Line	43.61	*	56.00	46.00	-12.39	(QP)
3.28	Line	43.32	*	56.00	46.00	-12.68	(QP)
7.18	Line	41.70	*	60.00	50.00	-18.30	(QP)
17.57	Line	43.64	*	60.00	50.00	-16.36	(QP)
0.16	Neutral	53.16	*	65.67	55.67	-12.51	(QP)
0.64	Neutral	43.21	*	56.00	46.00	-12.79	(QP)
3.17	Neutral	43.73	*	56.00	46.00	-12.27	(QP)
7.18	Neutral	44.10	*	60.00	50.00	-15.90	(QP)
17.48	Neutral	44.23	*	60.00	50.00	-15.77	(QP)

Remark :

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=100KHz, VBW =100KHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of (Note). If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range from 150KHz to 30MHz.

Review:

Vincent Sw

Test Engr.:

Eric

Test Date:

Nov. 23, 2000

4. Conducted Emission Data

4.1 The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Judgement: Passed by **-4.99 dB in mode of Line terminal 0.71 MHz**

Test Mode: AV Port

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Safe Margins	
		QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
0.16	Line	52.56	*	65.67	55.67	-13.11	(QP)
0.71	Line	51.01	33.68	56.00	46.00	-4.99	(QP)
3.22	Line	43.72	*	56.00	46.00	-12.28	(QP)
7.21	Line	41.51	*	60.00	50.00	-18.49	(QP)
17.38	Line	43.82	*	60.00	50.00	-16.18	(QP)
0.15	Neutral	51.76	*	65.94	55.94	-14.18	(QP)
0.64	Neutral	44.01	31.69	56.00	46.00	-11.99	(QP)
3.17	Neutral	44.13	38.19	56.00	46.00	-7.81	(AV)
7.18	Neutral	43.50	*	60.00	50.00	-16.50	(QP)
17.48	Neutral	44.03	*	60.00	50.00	-15.97	(QP)

Remark :

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=100KHz, VBW =100KHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of (Note). If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range from 150KHz to 30MHz.

Review:

Vincent Sw

Test Engr.:

Eric

Test Date:

Nov. 23, 2000

5. Radiated Emission Data

5.1 The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, as well as the limit. Explanation of the Correction Factor is given in paragraph 7.2.

Judgement: Passed by **-3.30 dB** in polarity of **Vertical 52.87 MHz**

Test Mode : CRT Monitor 1600x1200/ 106KHz 85Hz

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Safe Margins (dBuV/m)	Note
52.87	V	41.90	- 15.20	26.70	30.00	- 3.30	
123.37	V	38.40	- 14.29	24.11	30.00	- 5.89	
125.40	V	39.30	- 14.10	25.20	30.00	- 4.80	
128.94	H	38.62	- 13.78	24.84	30.00	- 5.16	
141.24	H	38.32	- 12.71	25.61	30.00	- 4.39	
159.06	H	36.95	- 12.30	24.65	30.00	- 5.35	
200.48	H	42.72	- 15.24	27.48	30.00	- 2.52	
200.68	V	35.10	- 15.32	19.78	30.00	- 10.22	
229.11	V	39.55	- 14.02	25.53	30.00	- 4.47	
269.70	H	42.77	- 12.05	30.72	37.00	- 6.28	
370.16	V	36.47	- 9.12	27.35	37.00	- 9.65	
488.00	H	36.82	- 5.33	31.49	37.00	- 5.51	

Remark:

- (1) Test Receiver or Spectrum Analyzer measurement condition setting are Res. BW=1 MHz, Video BW =1MHz , Sweep. Time = 0.2 sec./MHz
- (2) All readings are Peak unless otherwise stated QP in column of (Note)
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.
- (5) If the peak scan value lower limit less than 20dB, then this signal data will be listed. But if these signal data more than 10 frequencies, then only the Top 10 be listed.

Review:

Vincent Liu

Test Engr.:

Eric

Test Date:

Nov. 20, 2000

5. Radiated Emission Data

5.1 The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, as well as the limit. Explanation of the Correction Factor is given in paragraph 7.2.

Judgement: Passed by **-1.89 dB** in polarity of **Vertical 225.56 MHz**
 Test Mode : S-Video Port

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Safe Margins (dBuV/m)	Note
48.09	V	41.65	- 15.31	26.34	30.00	- 3.66	
140.98	V	38.30	- 12.73	25.57	30.00	- 4.43	
143.70	H	37.40	- 12.61	24.79	30.00	- 5.21	
158.70	H	37.02	- 12.30	24.72	30.00	- 5.28	
178.85	H	38.60	- 14.14	24.46	30.00	- 5.54	
197.36	V	43.22	- 15.24	27.98	30.00	- 2.02	
200.46	H	40.50	- 15.32	25.18	30.00	- 4.82	
200.47	V	39.97	- 15.32	24.65	30.00	- 5.35	
225.55	V	40.37	- 14.26	26.11	30.00	- 3.89	
225.56	H	38.12	- 14.26	23.86	30.00	- 6.14	
225.56	V	42.37	- 14.26	28.11	30.00	- 1.89	
246.90	H	37.45	- 13.24	24.21	37.00	- 12.79	

Remark:

- (1) Test Receiver or Spectrum Analyzer measurement condition setting are Res. BW=1 MHz, Video BW =1MHz , Sweep. Time = 0.2 sec./MHz
- (2) All readings are Peak unless otherwise stated QP in column of (Note)
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.
- (5) If the peak scan value lower limit less than 20dB, then this signal data will be listed. But if these signal data more than 10 frequencies, then only the Top 10 be listed.

5. Radiated Emission Data

5.1 The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, as well as the limit. Explanation of the Correction Factor is given in paragraph 7.2.

Judgement: Passed by **-3.38 dB** in polarity of **Horizontal 140.88 MHz**
 Test Mode : AV Port

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Safe Margins (dBuV/m)	Note
112.04	H	40.05	- 15.58	24.47	30.00	- 5.53	
140.85	V	38.65	- 12.73	25.92	30.00	- 4.08	
140.88	H	39.35	- 12.73	26.62	30.00	- 3.38	
178.83	V	36.52	- 14.14	22.38	30.00	- 7.62	
197.35	H	38.17	- 15.24	22.93	30.00	- 7.07	
197.36	V	40.47	- 15.24	25.23	30.00	- 4.77	
200.43	H	37.60	- 15.32	22.28	30.00	- 7.72	
203.77	V	39.07	- 15.26	23.81	30.00	- 6.19	
304.80	V	38.80	- 11.00	27.80	37.00	- 9.20	
305.10	H	38.22	- 11.00	27.22	37.00	- 9.78	
434.60	V	38.05	- 6.94	31.11	37.00	- 5.89	
485.70	H	36.05	- 5.38	30.67	37.00	- 6.33	

Remark:

- (1) Test Receiver or Spectrum Analyzer measurement condition setting are Res. BW=1 MHz, Video BW =1MHz , Sweep. Time = 0.2 sec./MHz
- (2) All readings are Peak unless otherwise stated QP in column of (Note)
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.
- (5) If the peak scan value lower limit less than 20dB, then this signal data will be listed. But if these signal data more than 10 frequencies, then only the Top 10 be listed.

5-2. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\mathbf{FS = RA + AF + CL - AG}$$

Where **FS = Field Strength**

RA = Receiver Amplitude

AF = Antenna Factor (1)

CL = Cable Attenuation Factor (1)

AG = Amplifier Gain (1) (2)

Remark :

- (1) The Correction Factor = AF + CL - AG, as shown in the data tables' Correction Factor column.
- (2) AG is not available for Neutron's Open Site Facility

Example of Calculation:

Assume a Receiver Reading of 23.7 dBuV is obtained with an Antenna Factor of 7.2 dB and a Cable Factor of 1.1 dB. Then:

1. The Correction Factor will be calculated by

$$\mathbf{Correction Factor = AF + CL - AG = 7.2 + 1.1 - 0 = 8.3 \text{ (dB)}}$$

as shown in the data tables' Correction Factor column.

2. The Field Strength will be calculated by

$$\mathbf{FS = RA + Correction Factor = 23.7 + 8.3 = 32 \text{ (dBuV/m).}}$$

FS is the value shown in the data tables' Corrected Reading column and RA is the value shown in

the data tables' Receiver Reading column. The 32 dBuV/m value was mathematically converted

to its corresponding level in uV/m as:

$$\mathbf{Log^{-1}\{(32.0 \text{ dBuV/m})/20\} \times 39.8 \text{ (uV/m)}}$$

5-3. Correction Factor VS Frequency

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)
30.00	11.10	0.90
35.00	10.80	0.50
40.00	11.20	1.00
45.00	11.50	0.80
50.00	11.30	1.00
55.00	10.50	1.30
60.00	9.90	1.00
65.00	8.70	1.50
70.00	7.60	1.20
75.00	6.40	1.40
80.00	6.10	1.30
85.00	7.00	1.40
90.00	8.00	1.70
95.00	10.00	1.50
100.00	11.20	1.90
110.00	12.60	2.00
120.00	13.00	1.80
130.00	12.50	1.80
140.00	12.00	2.00
150.00	12.00	2.20
160.00	13.20	2.40
170.00	14.80	2.50
180.00	16.30	2.50
190.00	17.00	2.50
200.00	17.30	2.40
225.00	10.50	2.70
250.00	11.70	3.10
275.00	12.80	3.70
300.00	14.50	4.00
325.00	14.00	4.50
350.00	14.20	4.50
375.00	14.60	4.60
400.00	15.10	4.80
450.00	16.20	5.40
500.00	17.60	6.50
550.00	17.80	7.00
600.00	18.40	7.10
650.00	19.50	7.10
700.00	20.80	7.20
750.00	20.50	7.50
800.00	21.10	8.00
850.00	22.40	8.60
900.00	23.50	8.90
950.00	24.00	9.70
1000.00	24.80	10.30

7. Photos of Tested EUT:

1. Photo # 1 Front View, Rear View

2. Photo # 2 Side View

Attachment

User's Manual