

Neutron Engineering Inc.

FCC Test Report

Issued Date Project No.	: Dec. 24, 2007 : E0711053
Equipment Model Name	: External Storage Case
Applicant	: Chenbro MICOM Co., LTD.

Address : 15FI., No. 150, Jian Yi Road, Chung Ho City, Taipei Hsien, Taiwan, R.O.C.

Tested by: Neutron Engineering Inc. EMC Laboratory Date of Test: Oct. 22, 2007 ~ Dec. 21, 2007

Testing Engineer:	Sent In for
Technical Manager:_	(Jeff Yang)
Authorized Signatory : _	(Andy Chiu)

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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Neutron Engineering Inc.



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1. CERTIFICATION

Brand Name :	External Storage Case
Model Name :	
	Chenbro MICOM Co., LTD.
	Oct. 22, 2007 ~ Dec. 21, 2007
Standards:	FCC Part 15, Subpart B, Class B
	CISPR 22: 1997+A1: 2000, Class B
	ICES-003: 2004, Class B
	ANSI C63.4-2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCE-1-E0711053) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).





2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Emission					
Standard	Test Item	Limit	Judgment	Remark	
FCC Part15, Subpart B CISPR 22:1997+A1: 2000	Conducted Emission	Class B	PASS		
ICES-003: 2004	Radiated Emission	Class B	PASS		

NOTE:

(1) " N/A" denotes test is not applicable in this Test Report.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS02** at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan.

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95**% \circ

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB) NOTE	
		30MHz ~ 200MHz	V	3.82	
OS-01 ANSI		30MHz ~ 200MHz	Н	3.60	
	ANSI	200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	
		30MHz ~ 200MHz	V	2.48	
OS-02	ANSI	30MHz ~ 200MHz	Н	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	Н	2.66	





3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	External Storage Case
Brand Name	A CHENBRO
Model Name	ES340XX
OEM Brand/Model Name	N/A
Model Difference	N/A
Product Description	The EUT is an External Storage Case. Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
Power Source	DC Voltage supplied from AC/DC Adapter.
Power Rating	AC I/P 100-240V, 2.5A, 50-60Hz / DC O/P 19V, 9.48A
Connecting I/O Port(s)	Please refer to the User's Manual
Products Covered	AC/DC Adapter: FSP / FSP180-ABA
EUT Modification(s)	N/A

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

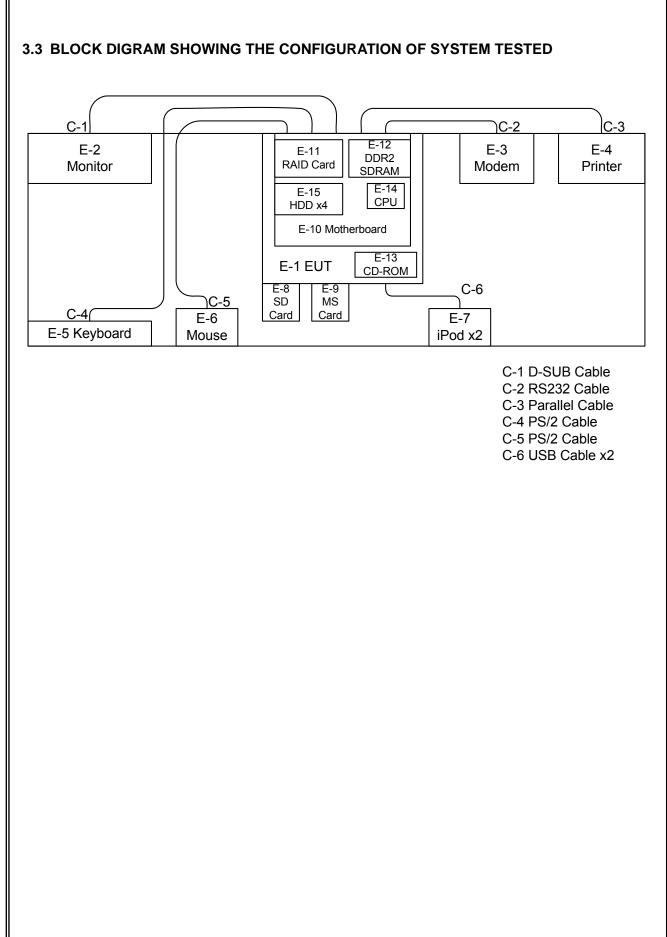
Pretest Test Mode	Description
Mode 1	FULL SYSTEM

For Conducted Test				
Final Test Mode Description				
Mode 1	FULL SYSTEM			

For Radiated Test					
Final Test Mode Description					
Mode 1 FULL SYSTEM					









3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	External Storage Case	A CHENBRO	ES340XX	DOC	N/A	EUT
E-2	19" LCD Monitor	Samsung	SyncMaster 193P	DOC	DI19H4JXC05517A	
E-3	Modem	ACEEX	DM-1414V	DOC	8041708	
E-4	Printer	SII	DPU-414	DOC	1045105A	
E-5	PS/2 K/B	Logitech	Y-SJ17(ACK260A)	DOC	SYU44664880	
E-6	PS/2 Mouse	Logitech	M-SBF69	DOC	HCA44601156	
E-7	iPod nano	Apple	A1137	DOC	YM63604QUPR	
E-8	SD MEMORY CARD	Hagiwara	HPC-SD64T	N/A	0326TA5355H	
E-9	Memroy Stick	Apacer	AP-MS125A	N/A	210514504640	
E-10	Motherboard	VIA	C7VCM2	N/A	N/A	
E-11	RAID Card	HighPoint	RocketRAID 2210	N/A	N/A	
E-12	DDR2 SDRAM	ADTA	DDR2 667 1G	N/A	N/A	
E-13	CD ROM	TEAC	CD-224EC	N/A	N/A	
E-14	CPU	VIA	VIA C7-M ULV	N/A	N/A	
E-15	HDD	SEAGATE	ST3750640AS	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	YES	1.8M	
C-2	YES	NO	1.5M	
C-3	YES	NO	1.8M	
C-4	YES	NO	1.5M	
C-5	YES	NO	1.5M	
C-6	YES	NO	1.0M	

Note:

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

(2) For detachable type I/O cable should be specified the length in cm in ^[]Length ^[] column.





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)

FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	Rolf Heine	NNB-2/16Z	98053	Dec. 27, 2007
2	LISN	EMCO	3816/2	00042990	Jan. 25, 2008
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Nov. 27, 2008
4	50Ω Terminator	N/A	N/A	N/A	May.13, 2009
5	Test Cable	N/A	C01	N/A	Oct. 10, 2008
6	EMI Test Receiver	R&S	ESCI	100082	Mar. 08, 2008

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.





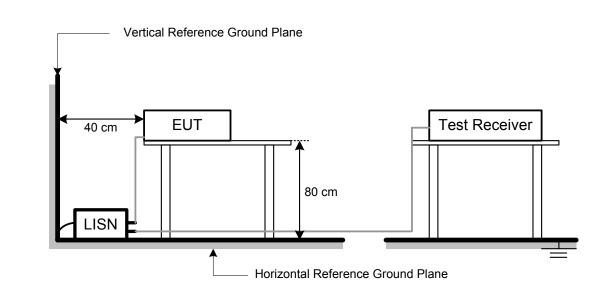
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP





4.1.6 EUT OPERATING CONDITIONS

The EUT exercise program (EMC.exe) used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The program contained on a PC hard disk 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 parallel port device (Printer).

4. Send " H " pattern to serial port device (Modem).

5. Repeated from 2 to 4 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.



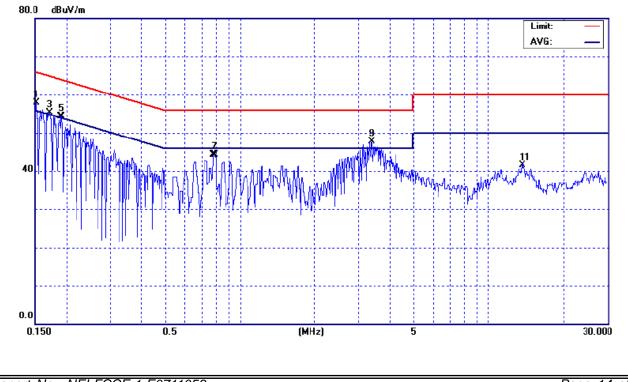
4.1.7 TEST RESULTS

E.U.T :	External Storage Case	Model Name :	ES340XX
Temperature :	23°C	Relative Humidity :	48%
Pressure :	1007 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	FULL SYSTEM		

Freq.	Terminal	Measure	d(dBuV)	Limits((dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.15	Line	57.84	31.08	65.92	55.92	-8.08	(QP)
0.17	Line	55.38	36.38	64.91	54.91	-9.53	(QP)
0.19	Line	54.29	37.48	64.01	54.01	-9.72	(QP)
0.79	Line	44.29	38.47	56.00	46.00	-7.53	(AV)
3.38	Line	47.68	39.38	56.00	46.00	-6.62	(AV)
13.65	Line	41.60	*	60.00	50.00	-18.40	(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=10KHz,VBW =10KHz, 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 ^ℂNote_⊥. 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 \circ



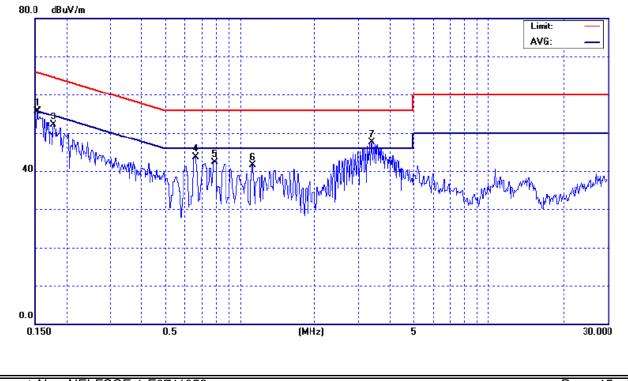


E.U.T :	External Storage Case	Model Name :	ES340XX
Temperature :	23°C	Relative Humidity :	48%
Pressure :	1007 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	FULL SYSTEM		

Freq.	Terminal	Measure	ed(dBuV)	Limits((dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.15	Neutral	55.61	32.88	65.85	55.85	-10.24	(QP)
0.18	Neutral	52.18	*	64.64	54.64	-12.46	(QP)
0.66	Neutral	43.76	*	56.00	46.00	-12.24	(QP)
0.79	Neutral	42.26	*	56.00	46.00	-13.74	(QP)
1.12	Neutral	41.57	*	56.00	46.00	-14.43	(QP)
3.38	Neutral	47.52	38.58	56.00	46.00	-7.42	(AV)

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz;SPA setting in RBW=10KHz,VBW =10KHz, 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 ^ℂNote_□. 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 \circ





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (BELOW 1000MHZ)

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
FREQUENCT (MILZ)	dBuV/m	dBuV/m
30 – 230	40	30
230 – 1000	47	37

Notes:

(1) The limit for radiated test was performed according to as following: CISPR 22/ FCC PART 15B /ICES-003.

- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (ABOVE 1000MHZ)

FREQUENCY (MHz)	Class A (dBu	V/m) (at 3m)	Class B (dBu	ıV/m) (at 3m)
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3176	Feb. 05, 2008
2	Test Cable	N/A	10M_OS01	N/A	Oct. 10, 2008
3	Test Cable	N/A	OS01-1/-2	N/A	Oct. 10, 2008
4	Pre-Amplifier	Anritsu	MH648A(OS 01)	M09961	Oct. 10, 2008
5	EMI Test Receiver	R&S	ESCI	100080	Mar. 08, 2008
6	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A
7	Turn Table	Chance Most	CMTB-1.5	N/A	N/A

4.2.2 MEASUREMENT INSTRUMENTS LIST

Remark: " N/A" denotes No Model Name / Serial No. and No Calibration specified.

4.2.3 TEST PROCEDURE

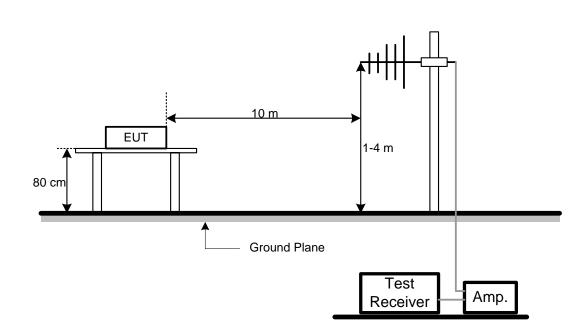
- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation



4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.



4.2.7 TEST RESULTS

.U.T :		xternal Storag	0 0 0 0 0 0	Model Name :		XX	
emperature		D°C		Relative Humi	,		
ressure :		020 hPa		Test Voltage :	AC 12	20V/60Hz	
est Mode :	F	ULL SYSTEM					
		I I					
Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Not
(MHz) 40.86	<u>H/V</u> V	(dBuV) 41.75	(dB) -15.90	(dBuV/m) 25.85	(dBuV/m) 30.00	(dB) - 4.15	
40.00 240.02	 	41.75	-15.90	33.82	37.00	- 4.15	
720.75	V	34.60	-3.36	31.24	37.00	- 5.76	
826.71	V	30.17	-1.96	28.21	37.00	- 8.79	
855.00	V	31.42	-1.46	29.96	37.00	- 7.04	
972.04	V	32.67	1.11	33.78	37.00	- 3.22	
990.04	V	32.07	1.51	33.58	37.00	- 3.42	
(2) A th di (3) M (4) If	at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	nless otherwise s ompliance with ange from 30MH ower limit more	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas	ure-m
(2) A th di (3) M (4) If ta	ll reading at the P dn't perf easuring	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas	ure-m
(2) A th di (3) M (4) If ta	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th di (3) M (4) If ta	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th di (3) M (4) If ta	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th di (3) M (4) If ta	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th di (3) M (4) If ta	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th di (3) M (4) If ta	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th (3) M (4) If ta 80.0 dBuV/m	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th di (3) M (4) If ta	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th (3) M (4) If ta 80.0 dBuV/m	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th (3) M (4) If ta 80.0 dBuV/m	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th (3) M (4) If ta 30.0 dBuV/m	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th (3) M (4) If ta 80.0 dBuV/m	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th (3) M (4) If ta 80.0 dBuV/m	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m
(2) A th (3) M (4) If ta 80.0 dBuV/m	Il reading at the P dn't perf easuring the peal	gs are Peak un eak reading co orm ∘ g frequency ra	ompliance with	the QP Limits a Iz to 1000MHz	and then QP $^{\circ}$	Mode meas data does n	ure-m



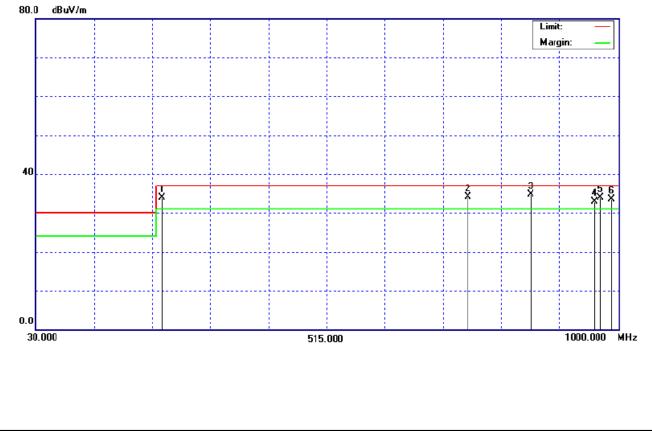


E.U.T :	External Storage Case	Model Name :	ES340XX
Temperature :	20°C	Relative Humidity :	75%
Pressure :	1020 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	FULL SYSTEM		

Freq.	Ant.	Reading(RA)	· · ·	Measured(FS)	· ,	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
240.00	Н	48.70	-14.70	34.00	37.00	- 3.00	QP
750.00	Н	36.65	-2.56	34.09	37.00	- 2.91	
854.98	Н	36.17	-1.46	34.71	37.00	- 2.29	
959.99	Н	31.97	0.85	32.82	37.00	- 4.18	
972.09	Н	32.77	1.12	33.89	37.00	- 3.11	
990.04	Н	31.97	1.51	33.48	37.00	- 3.52	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ∘
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measure-ment didn't perform \circ
- (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 how in table \circ





Neutron Engineering Inc.

5. EUT TEST PHOTO

Conducted Measurement Photos









Radiated Measurement Photos

