



# FCC TEST REPORT

**REPORT NO.:** F920611A06

**MODEL NO.:** 200-102-01

**RECEIVED:** June 11, 2003

**TESTED:** June 11 ~ 17, 2003

**APPLICANT:** LifeScan, Inc.

**ADDRESS:** 1000 Gibraltar Drive Milpitas CA  
95035-6312

**ISSUED BY:** Advance Data Technology Corporation

**LAB LOCATION:** 47 14th Lin, Chiapau Tsun, Linko, Taipei,  
Taiwan, R.O.C.

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0528  
ILAC MRA



Lab Code: 200102-0

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## 1 CERTIFICATION

**PRODUCT:** Life Scan USB Interface Cable

**BRAND NAME:** HCL

**MODEL NO:** 200-102-01

**TEST ITEM:** ENGINEERING SAMPLE

**APPLICANT:** LifeScan, Inc.

**STANDARDS:** FCC Part 15, Subpart B, Class B

ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that two samples of the designation have been tested in our facility from June 11 ~ 17, 2003. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

**PREPARED BY:** , **DATE:** June 24, 2003

**APPROVED BY:** , **DATE:** June 24, 2003

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Remarks
FCC Part 15, Subpart B, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -18.29 dB at 1.390 MHz
	Radiated Test	PASS	Meets Class B Limit Minimum passing margin is -4.10 dB at 312.06 MHz

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Life Scan USB Interface Cable
<b>MODEL NO.</b>	200-102-01
<b>POWER SUPPLY</b>	DC 5V (from PC)
<b>DATA CABLE</b>	USB Shielded 1.8m

**NOTE:** This report is prepared for Class II permissive change, the original issued on April 13, 2003. The main change is as the following:

Components Changed	FCC Listed Cable	Cable (with SMBJ15C Tranzorbs)	Cable (with MMBZ15VAL Tranzorbs)
Printed Circuit Board (PCB)	PCB Rev B	PCB Rev D	PCB Rev D
Tranzorbs used	Traszorb : SMBJ15C at TZ1 and TZ2	Traszorb : SMBJ15C at TZ1 and TZ2	Traszorb : MMBZ15VAL at TZ1 and TZ2
No. of Ferrite Cores used.	2 Cores, on either side of PCB over mould.	1 Core, on PCB over mould and USB connector side.	1 Core, on PCB over mould and USB connector side.
USB 4 Core Cable Length	USB Cable Length =24" +/- 1"	USB Cable Length =65" +/- 1"	USB Cable Length =65" +/- 1"
3 Core Cable Length	3 Core Cable Length =48" +/- 1"	3 Core Cable Length = 7" +/- 1"	3 Core Cable Length = 7" +/- 1"

This product is used to transfer data in a hand held medical device through 3 pin stereo port to a Standard PC which has USB port. This is a cable of 6 feet length with a PCB with electronics molded in the middle of the cable, which will convert the USB signals to TTL level.

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

### 3.2 DESCRIPTION OF TEST MODES

The final configurations/modes are as the following:

- ◆ Mode 1: Cable (with SMBJ15C Tranzorbs)
- ◆ Mode 2: Cable (with MMBZ15VAL Tranzorbs)

For Conducted Test, mode 1 was selected as representative mode, for Radiated Test, both modes were tested and their data were recorded in this report.



### 3.3 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PRINTER	EPSON	LQ-300+	DCGY017081	FCC DoC Approved
2	MONITOR	ADI	CM100	024058T102003 46	FCC DoC Approved
3	MODEM	ACEEX	1414	980020539	IFAXDM1414
4	PERSONAL COMPUTER	HP	Pavilion 700	TW24320248	FCC DoC Approved
5	PS/2 LifeScan USB Interface Cable	HP	6511-PK	99P468101CY1 W01S00156201 0239	FCC DoC Approved
6	PS/2 MOUSE	LOGITECH	M-S61	HCA12605710	JNZ211403

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
2	1.8 m braid shielded wire, terminated with VGA connector via metallic frame, w/o core
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
4	N/A
5	1.8 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core
6	1.8 m Non-shielded wire, terminated with PS/2 connector via drain wire, w/o core.

**NOTE:** All power cords of the above support units are non-shielded (1.8m).

## 4 EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

**NOTES:**

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESHS30	828109/007	July 03, 2003
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	839135/006	July 02. 2003
FCC ISN	FCC-TLISN-T2-02	20117	Oct 18. 2003
FCC ISN	FCC-TLISN-T4-02	20116	Oct 18. 2003
FCC ISN	FCC-TLISN-T8-02	20096	Oct 18. 2003
EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	July 02, 2003
Software	Cond-V2M3	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C02.01	May. 23, 2004
HP Terminator (For EMCO LISN)	11593A	E1-01-298	Feb. 23, 2004
HP Terminator (For EMCO LISN)	11593A	E1-01-299	Feb. 23, 2004

**NOTE:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. “\*”: These equipment are used for conducted telecom port test only (if tested).
3. The test was performed in ADT Shielded Room No. 2.
4. The VCCI Site Registration No. is C-240.

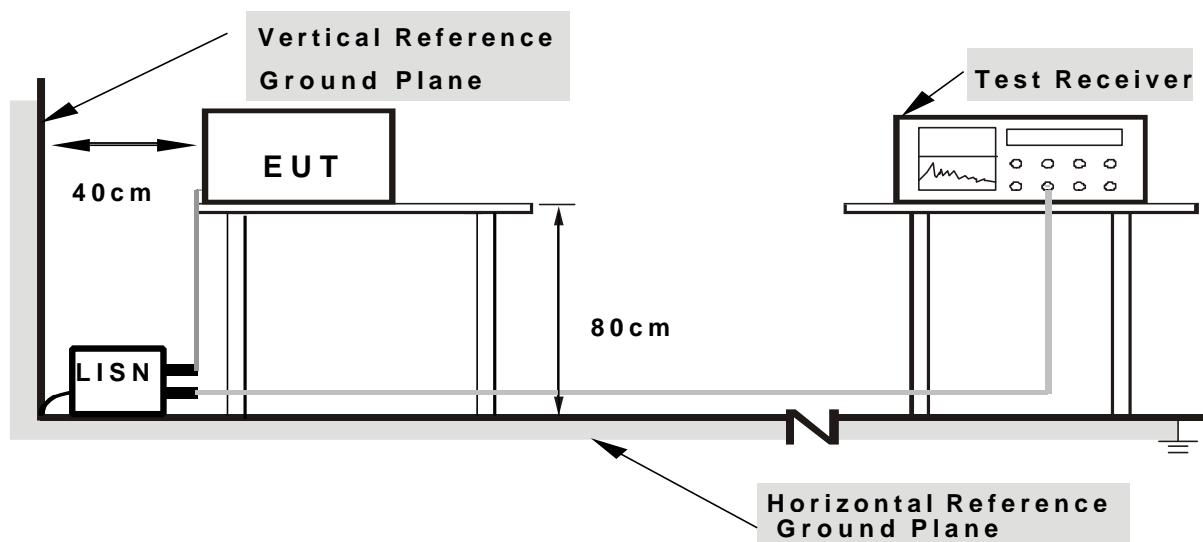
#### 4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



**Note:** 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



#### 4.1.6 EUT OPERATING CONDITIONS

- a. Connected the USB cable to any of the USB port in the PC.
- b. Connected the Loop "Back Connector" to the 3 pin stereo plug connector.
- c. Installed the driver for the cable from the USB cable floppy.
- d. After installing the driver the PC will allocate COM port to the USB cable.
- e. After installing the driver OPEN the HyperTerminal application, from the start menu>Programs>Accessories>communications>HyperTerminal.
- f. After opening the HyperTerminal clicked the properties icon in the Hyper Terminal menu and select the corresponding COM port which is assigned to this cable by the PC, and clicked OK.
- g. Clicked the "call" icon in the Hyper Terminal menu, and typed any character, the typed characters will be displayed on the hyper terminal window when the loop back connector is connected and character will not appear on the screen when the loop back connector is not connected.
- h. Repeated steps a-h.

#### 4.1.7 TEST RESULTS

<b>EUT</b>	Life Scan USB Interface Cable	<b>MODEL</b>	200-102-01
<b>MODE</b>	1	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>PHASE</b>	Line (L)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 60 % RH, 1005 hPa		<b>TESTED BY:</b> Nick Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.184	0.10	40.49	-	40.59	-	64.33	54.33	-23.74	-
2	0.556	0.13	32.16	-	32.29	-	56.00	46.00	-23.71	-
3	1.020	0.20	31.88	-	32.08	-	56.00	46.00	-23.92	-
4	3.057	0.31	30.93	-	31.24	-	56.00	46.00	-24.76	-
5	7.693	0.58	35.81	-	36.39	-	60.00	50.00	-23.61	-
6	26.693	1.47	26.11	-	27.58	-	60.00	50.00	-32.42	-

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and

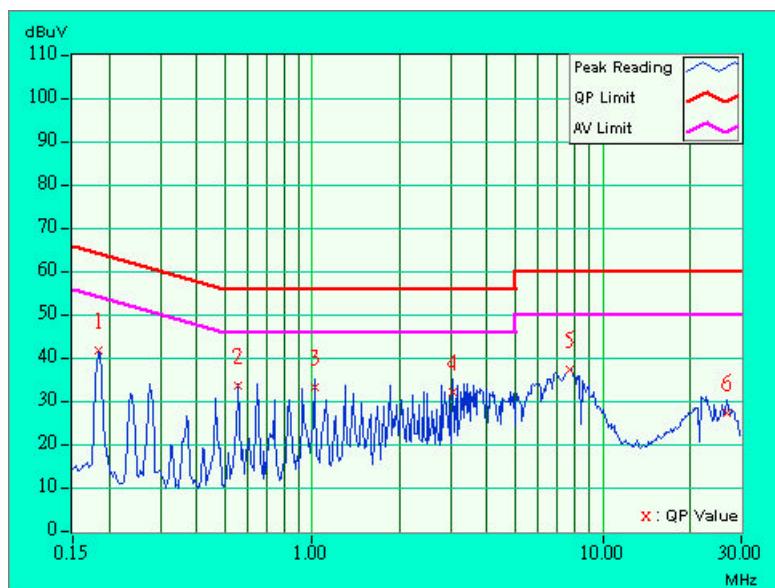
measurement with the average detector is unnecessary.

3. The emission levels of other frequencies were very low against the limit.

4. Margin value = Emission level - Limit value

5. Correction factor = Insertion loss + Cable loss

6. Emission Level = Correction Factor + Reading Value.



<b>EUT</b>	Life Scan USB Interface Cable	<b>MODEL</b>	200-102-01
<b>MODE</b>	1	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>PHASE</b>	Neutral (N)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 60 % RH, 1005 hPa		<b>TESTED BY:</b> Nick Chen

No	Freq. Factor	Corr. [MHz]	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.
1	0.186	0.10	41.98	-	42.08	-	64.22	54.22	-22.14	-
2	0.555	0.13	34.71	-	34.84	-	56.00	46.00	-21.16	-
3	1.390	0.20	37.51	-	37.71	-	56.00	46.00	-18.29	-
4	2.409	0.24	34.84	-	35.08	-	56.00	46.00	-20.92	-
5	3.709	0.37	34.62	-	34.99	-	56.00	46.00	-21.01	-
6	7.694	0.46	38.79	-	39.25	-	60.00	50.00	-20.75	-
7	27.257	1.35	25.69	-	27.04	-	60.00	50.00	-32.96	-

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

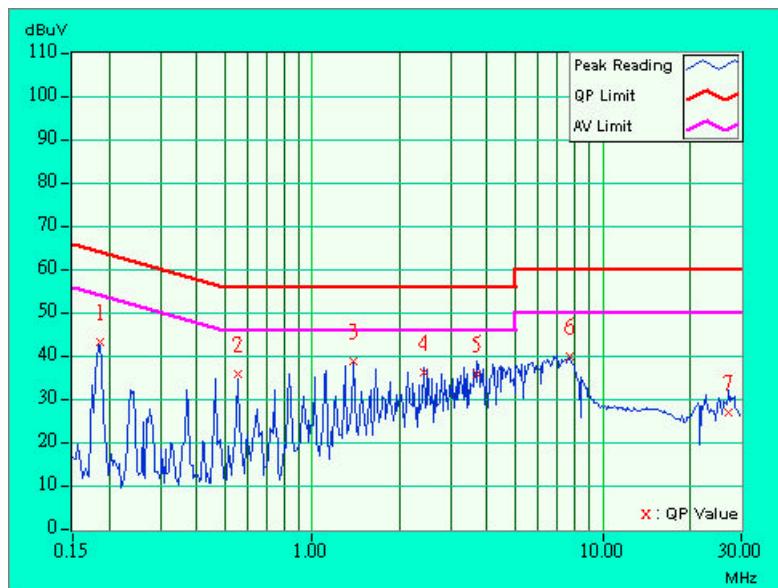
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

3. The emission levels of other frequencies were very low against the limit.

4. Margin value = Emission level - Limit value

5. Correction factor = Insertion loss + Cable loss

6. Emission Level = Correction Factor + Reading Value.





## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT FOR FREQUENCY BELOW 1000 MHz

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

### LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

Note: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

## 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Spectrum Analyzer	8590L	3520A00667	Aug. 26, 2003
CHASE Preamplifier	CPA9231A/4	3215	Nov. 06, 2003
* HP Preamplifier	8449B	3008A01201	Dec. 01, 2003
* HP Preamplifier	8449B	3008A01292	Aug. 07, 2003
* ROHDE & SCHWARZ TEST RECEIVER	ESVS10	846285/012	Sept. 16, 2003
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Feb. 13, 2004
SCHAFFNER Tunable Dipole Antenna	VHBA 9123	459	Nov. 22, 2003
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
* CHASE BILOG Antenna	CBL6112B	2751	March 21, 2004
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 3, 2003
* EMCO Horn Antenna	3115	9312-4192	Mar. 23 2004
* CHANCE Turn Table & Tower Controller	ACS-I	NA	NA
* Software	ADT_Radiated_V5.14	NA	NA
* ANRITSU RF Switches	MP59B	M51167	Aug. 21, 2003
* TIMES RF cable	LMR-600	CABLE-ST6-01	Aug. 21, 2003

**NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.  
 2. “\*” = These equipment are used for the final measurement.  
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.  
 4. The test was performed in ADT Open Site No. 6.  
 5. The VCCI Site Registration No. is R-728.

## 4.2.3 TEST PROCEDURE

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to



make the measurement.

- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

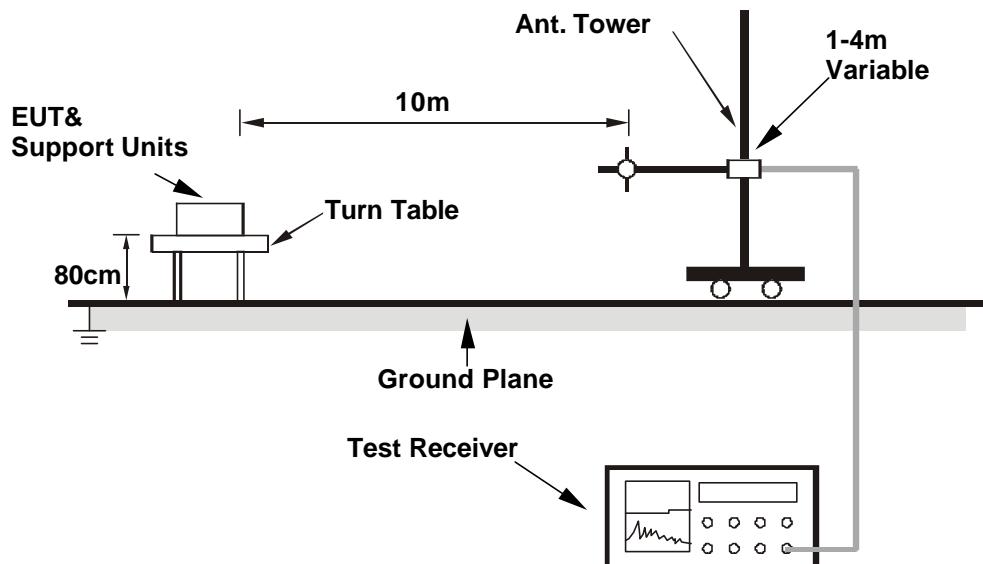
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.

#### **4.2.4 DEVIATION FROM TEST STANDARD**

No deviation

#### 4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

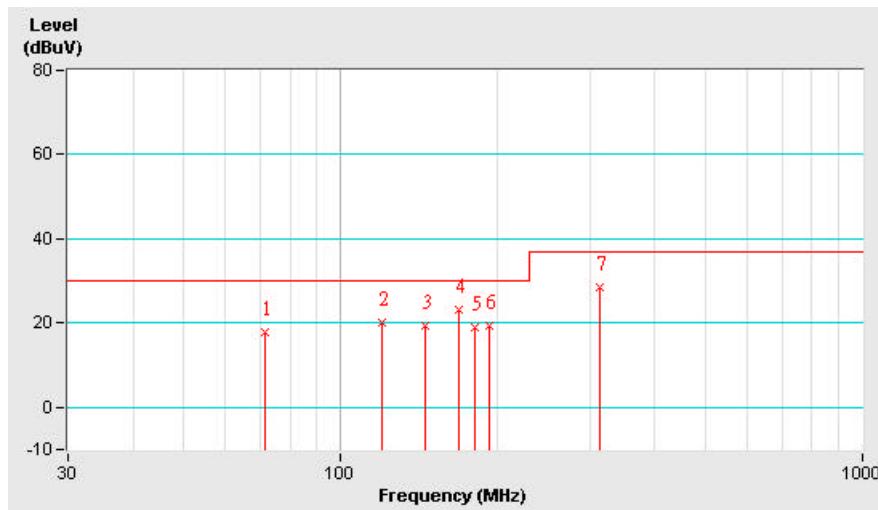
## 4.2.7 TEST RESULTS (A)

<b>EUT</b>	Life Scan USB Interface Cable	<b>MODEL</b>	200-102-01
<b>MODE</b>	1	<b>FREQUENCY RANGE</b>	30-1000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	26 deg. C, 60 % RH, 1005 hPa		<b>TESTED BY:</b> Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	71.64	17.8 QP	30.00	-12.20	4.00 H	309	11.20	6.60
2	119.91	20.0 QP	30.00	-10.00	4.00 H	166	7.30	12.70
3	144.71	19.3 QP	30.00	-10.70	4.00 H	21	7.70	11.60
4	168.22	23.0 QP	30.00	-7.00	4.00 H	292	12.70	10.30
5	180.85	18.8 QP	30.00	-11.20	4.00 H	49	9.00	9.80
6	192.87	19.5 QP	30.00	-10.50	4.00 H	290	9.50	10.00
7	313.20	28.6 QP	37.00	-8.40	3.36 H	196	13.80	14.80

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

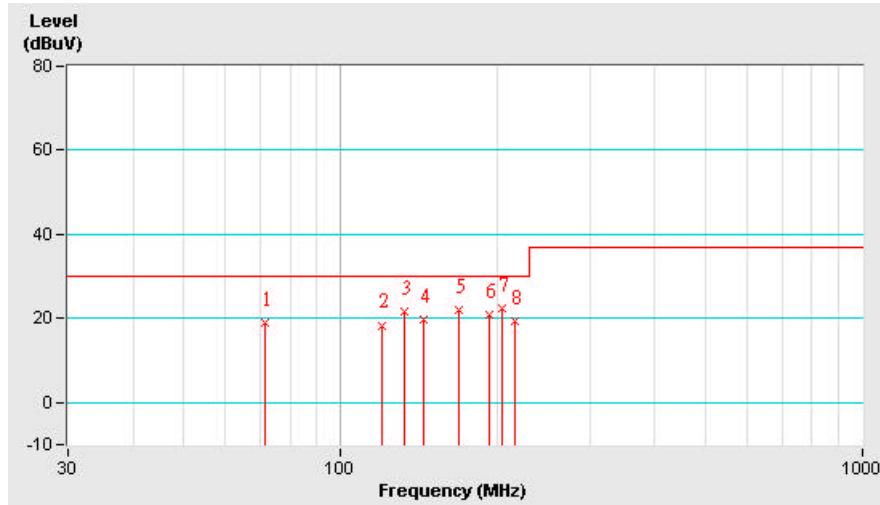


<b>EUT</b>	Life Scan USB Interface Cable	<b>MODEL</b>	200-102-01
<b>MODE</b>	1	<b>FREQUENCY RANGE</b>	30-1000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	26 deg. C, 60 % RH, 1005 hPa	<b>TESTED BY:</b>	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	71.73	19.1 QP	30.00	-10.90	1.60 V	97	12.50	6.60
2	120.06	18.4 QP	30.00	-11.60	1.00 V	1	5.70	12.70
3	132.06	21.6 QP	30.00	-8.40	1.00 V	325	9.40	12.20
4	144.06	19.7 QP	30.00	-10.30	1.00 V	174	8.10	11.60
5	168.09	22.1 QP	30.00	-7.90	1.00 V	112	11.80	10.30
6	192.09	20.7 QP	30.00	-9.30	1.00 V	54	10.70	10.00
7	204.09	22.4 QP	30.00	-7.60	1.00 V	209	12.10	10.30
8	216.09	19.4 QP	30.00	-10.60	1.00 V	28	8.30	11.10

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



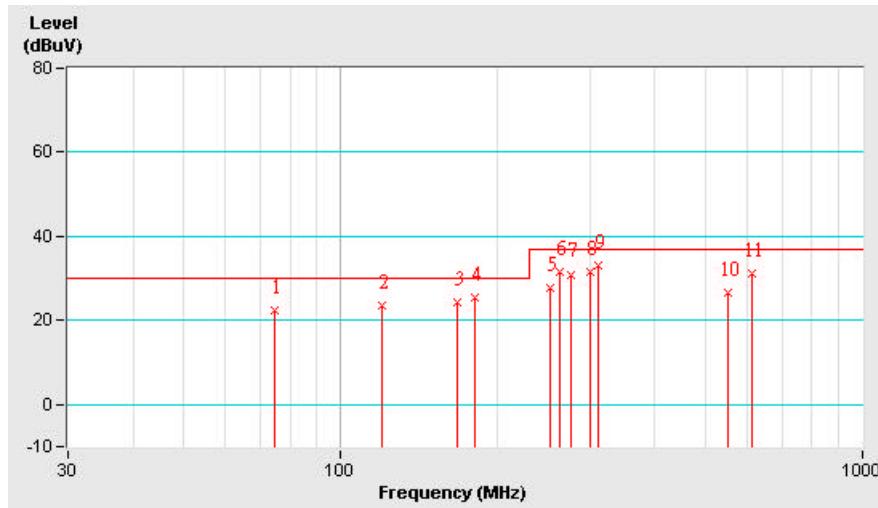
## 4.2.8 TEST RESULTS (B)

<b>EUT</b>	Life Scan USB Interface Cable	<b>MODEL</b>	200-102-01
<b>MODE</b>	2	<b>FREQUENCY RANGE</b>	30-1000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	26 deg. C, 60 % RH, 1005 hPa		<b>TESTED BY:</b> Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	74.84	22.2 QP	30.00	-7.80	4.00 H	50	15.30	7.00
2	119.96	23.5 QP	30.00	-6.50	4.00 H	141	10.80	12.70
3	166.75	24.3 QP	30.00	-5.70	4.00 H	176	14.00	10.30
4	181.14	25.4 QP	30.00	-4.60	4.00 H	212	15.60	9.80
5	252.05	27.8 QP	37.00	-9.20	4.00 H	159	14.40	13.50
6	263.50	31.7 QP	37.00	-5.30	2.50 H	347	17.40	14.30
7	276.05	31.0 QP	37.00	-6.00	3.36 H	309	17.00	14.00
8	300.05	31.5 QP	37.00	-5.50	2.47 H	97	17.00	14.50
9	312.06	32.9 QP	37.00	-4.10	3.14 H	93	18.10	14.80
10	552.30	26.5 QP	37.00	-10.50	1.52 H	48	5.70	20.80
11	612.30	31.1 QP	37.00	-5.90	1.52 H	241	10.40	20.70

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

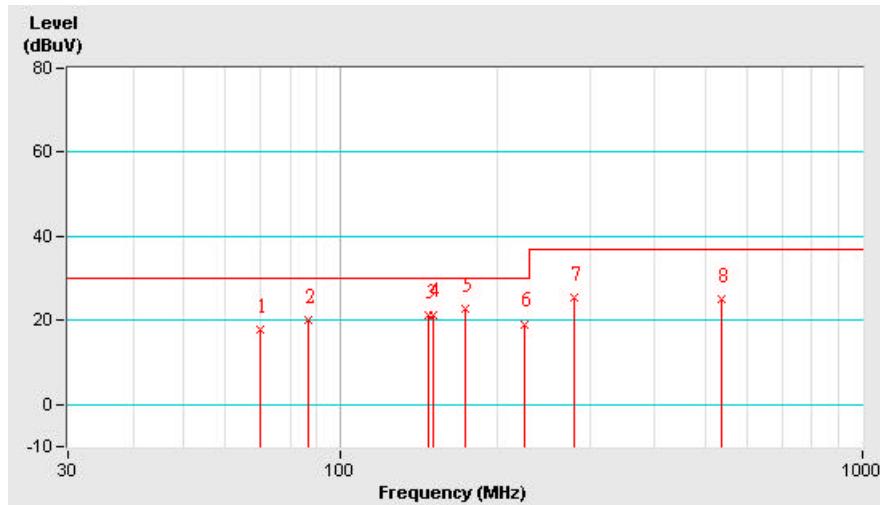


<b>EUT</b>	Life Scan USB Interface Cable	<b>MODEL</b>	200-102-01
<b>MODE</b>	2	<b>FREQUENCY RANGE</b>	30-1000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	26 deg. C, 60 % RH, 1005 hPa	<b>TESTED BY:</b>	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	70.04	17.9 QP	30.00	-12.10	1.00 V	2	11.50	6.40
2	86.45	20.3 QP	30.00	-9.70	2.02 V	196	11.40	8.90
3	147.64	21.1 QP	30.00	-8.90	1.00 V	295	9.70	11.40
4	150.75	21.5 QP	30.00	-8.50	1.00 V	275	10.30	11.20
5	173.13	22.8 QP	30.00	-7.20	1.00 V	140	12.70	10.10
6	224.80	19.2 QP	30.00	-10.80	1.00 V	278	7.50	11.60
7	281.00	25.3 QP	37.00	-11.70	1.00 V	341	11.20	14.10
8	535.00	24.9 QP	37.00	-12.10	1.49 V	49	4.60	20.30

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

### CONDUCTED EMISSION TEST



## RADIATED EMISSION TEST





## 6 APPENDIX - INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

<b>USA</b>	FCC, NVLAP, UL
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>New Zealand</b>	MoC
<b>Norway</b>	NEMKO
<b>Canada</b>	INDUSTRY CANADA
<b>R.O.C.</b>	CNLA, BSMI

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: [www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml). If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.