APPLICATION FOR CERTIFICATION
On Behalf of
Technic Star Ltd.
900MHz Dual Receiver Monitor

Model : 3826

Prepared for : Technic Star Ltd.
Room 2115, Hung To Road No.1,
Kwun Tong, Kowloon, Hong Kong.

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6 Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
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Report Number : ACS-F01136
Date of Test : Aug. 26 ~ Sep.20, 2001
Date of Report : Sep. 25, 2001

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APPENDIX I (5 Pages)
APPENDIX II (13 Pages)

TEST REPORT CERTIFICATION

Applicant	:	Technic Star Ltd.
Manufacturer	:	Technic Star Products Factory
EUT Description	:	900MHz Dual Receiver Monitor
		(A) MODEL NO : 3826
		(B) SERIAL NO : N/A
		(C) POWER SUPPLY : +6V DC

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C October 1998 & ANSI C63.4-1992

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions. The measurement results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test : Aug. 26 ~ Sep.20, 2001

Prepared by : Tracy Lin / Assistant

Reviewer : Rees Zeng / Engineer

For and on behalf of
AUDIX TECHNOLOGY (SHENZHEN) CO.,LTD.

Approved & Authorized Signer : Alex Deng Jul-13-2001
Alex Deng Authorized Signature(s)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	900MHz Dual Receiver Monitor (This report is about transmitter FCC ID and the receiver FCC DOC report please refer to AUDIX Number ACS-F01136 the device operate on 2 Selected channels at 905.370 and 905.905 for both channels.)
Model Number	:	3826
AC/DC Adaptor	:	M/N:28-D06-200 Input:120V 60Hz 3W Output:DC6V 200mA
Applicant	:	Technic Star Ltd. Room 2115, Hung To Road No.1, Kwun Tong, Kowloon, Hong Kong.
Manufacturer	:	Technic Star Products Factory Xiang Jiao Tang Ind. Area 2, Xue Xiang Buji, Shenzhen China
Date of Test	:	Aug. 26 ~ Sep.20, 2001

1.2. Test Facility

Site Description

3m Anechoic Chamber	:	Certificated by FCC, USA Aug. 24, 2000
3m & 10m Open Site	:	Certificated by FCC, USA Jan. 29, 2001
EMC Lab.	:	Certificated by VCCI, Japan Oct. 29, 1998
		certificated by DATech, German Feb. 02, 1999
		Certificated by NVLAP, USA NVLAP Code: 200372-0
		Certificated by DNV, Norway May 26, 1999
Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd.
Site Location	:	No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

1.3. Measurement Uncertainty

Conduction Uncertainty	=	± 2.66dB
Radiation Uncertainty	=	± 4.26dB

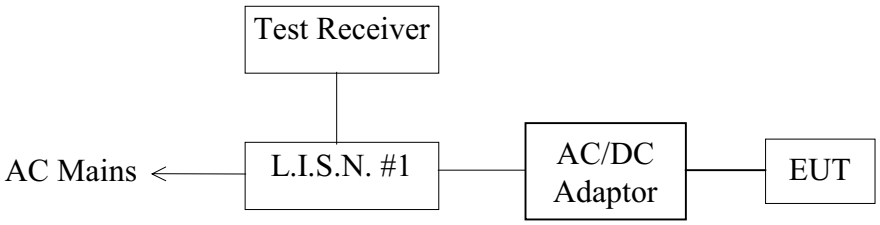
2. POWER LINE CONDUCTED MEASUREMENT

2.1. Test Equipment

The following test equipments are used during the power line conducted emission test:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	Jun. 03, 01	1 Year
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-541-4	Jun. 03, 01	1 Year
3.	L.I.S.N. #2	EMCO	3825/2	9006-1660	Jun. 03, 01	1 Year
4.	Terminator	EMCO	50Ω	No. 1	Jun. 03, 01	1 Year
5.	Terminator	EMCO	50Ω	No. 2	Jun. 03, 01	1 Year
6.	RF Cable	FUJIKURA	RG-55/U	LISN Cable	Aug. 26, 01	1/2 Year
7.	Coaxial Switch	Anritsu	MP59B	M73989	Jun. 02, 01	1/2 Year

2.2. Block Diagram of Test Setup



(EUT: 900MHz Dual Receiver Monitor)

2.3. Power Line Conducted Emission Limit

Frequency MHz	Maximum RF Line Voltage	
	μV	dB(μV)
0.45 ~ 30	250	48

Remarks: RF LINE VOLTAGE (dB(μV)) = 20 log RF LINE VOLTAGE (μV)

2.4. EUT Configuration on Test

The following equipments are installed on RF LINE VOLTAGE Test to meet the Commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

2.4.1. 900MHz Dual Receiver Monitor（EUT)

Model Number	:	3826
Serial Number	:	N/A
Manufacturer	:	Technic Star Products Factory

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown on Section 2.2.

2.5.2. Turn on the power of all equipment.

2.5.3. Let the EUT work in test mode (ON) and measure it.

2.6. Test Procedure

The EUT is put on the table which is 0.8m above the ground and away from other metallic surface at least 0.4m. The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the testing equipment; and the peripheral equipment powers form other L.I.S.N.. Please refer to the block diagram of the test setup and photographs. Both sides of AC line(Line & Neutral) are checked for maximum conducted interference. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables must be changed according to FCC part 15 B.

The bandwidth of the field strength meter (R & S Test Receiver ESHS20) is set at 10KHz.

The frequency range from 450KHz to 30MHz is checked.

The details of test modes are as the followings, and the test data please see Appendix I.

2.7. Power Line Conducted Emission Test Results

PASS.

The frequency range from 450KHz to 30 MHz is investigated.

Date of Test	:	Sep. 05, 2001	Temperature	:	22℃
EUT	:	900MHz Dual Receiver Monitor	Humidity	:	58%
Model No.	:	3826	Test Mode	:	Child Unit Channel A
Test Engineer:		Tomy			

Frequency MHz	Reading		Limit dB(μV)
	Phase VA dB(μV)	Phase VB dB(μV)	
0.540	*	3.2	48.0
0.550	3.2	*	48.0
1.100	*	4.1	48.0
1.200	4.2	*	48.0
2.020	*	**5.7**	**48.0**
2.200	5.0	*	48.0
5.620	*	3.9	48.0
5.700	3.8	*	48.0
8.800	*	4.5	48.0
8.900	4.4	*	48.0
15.600	*	4.6	48.0
15.700	3.9	*	48.0

Remark: 1. All readings are Quasi-Peak values.
2. The worst emission is detected at 2.020 MHz with corrected signal level of 5.7dB(μV) (limit is 48.0 dB(μV)) when the VB side of the EUT is connected to L.I.S.N.

Date of Test :	Sep. 05, 2001	Temperature :	22℃
EUT :	900MHz Dual Receiver Monitor	Humidity :	58%
Model No. :	3826	Test Mode :	Child Unit Channel B
Test Engineer:	Tomy		

Frequency MHz	Reading		Limit dB(μV)
	Phase VA dB(μV)	Phase VB dB(μV)	
0.540	3.9	*	48.0
0.550	*	3.9	48.0
1.100	*	**5.7**	**48.0**
1.200	4.4	*	48.0
2.200	3.8	*	48.0
2.420	*	4.1	48.0
5.200	*	3.2	48.0
5.700	4.8	*	48.0
8.700	*	4.1	48.0
8.900	4.2	*	48.0
15.600	*	3.2	48.0
15.700	3.2	*	48.0

Remark: 1. All readings are Quasi-Peak values.
2. The worst emission is detected at 1.100 MHz with corrected signal level of 5.7dB(μV) (limit is 48.0 dB(μV)) when the VB side of the EUT is connected to L.I.S.N.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

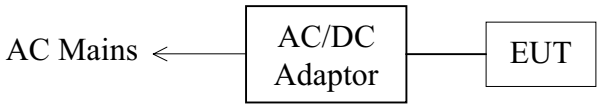
The following test equipments are used during the radiated emission measurement:

3.1.1. For Chamber #3

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	85422E	3625A00181	Jun. 03, 01	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	Jun. 03, 01	1 Year
3.	Amplifier	HP	8447D	2944A07794	Jun. 02, 01	1/2 Year
4.	Bilog Antenna	Chase	CBL6112A	2176	Mar. 25, 01	1 Year
5.	Computer	N/A	N/A	N/A	N/A	N/A
6.	Printer	NEC	P3800	568101448	N/A	N/A
7.	Coaxial Switch	Anritsu	MP59B	M20531	Jun. 03, 01	1 Year
8.	FR Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Aug. 26, 01	1/2 Year
9.	FR Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Aug. 26, 01	1/2 Year
10.	FR Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Aug. 26, 01	1/2 Year
11.	FR Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Aug. 26, 01	1/2 Year

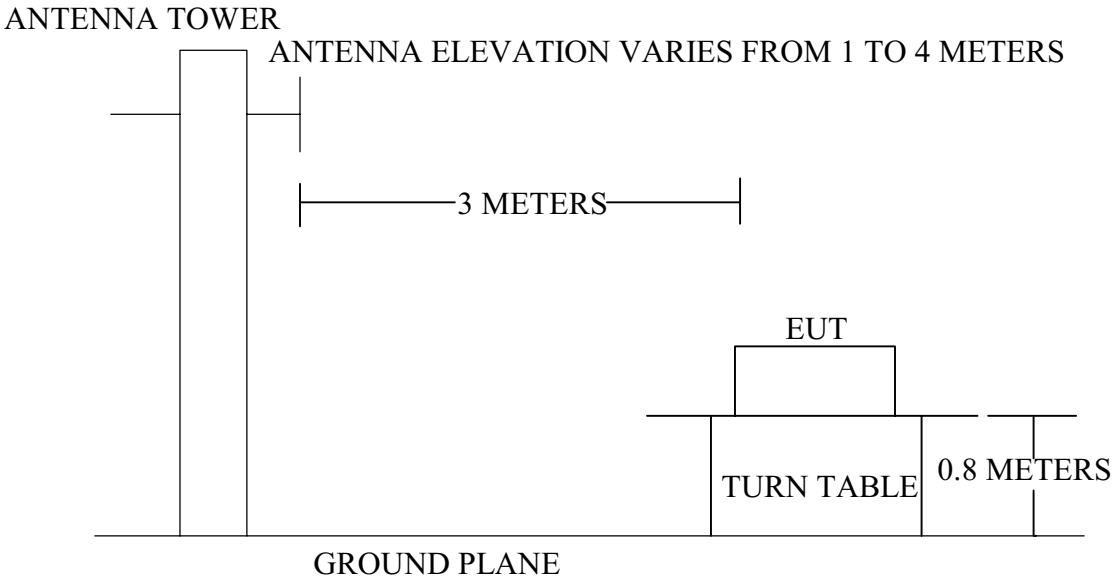
3.2. Block Diagram of Test Setup

3.2.1. diagram of connection between the EUT and simulators



(EUT: 900MHz Dual Receiver Monitor)

3.2.2. Chamber # 3 Test Setup Diagram



3.3. Radiated Emission Limit (Class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
Fundamental Frequency	3	50×10^3	94.0
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

Remark： (1) Emission level (dB)μV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.4.1. 900MHz Dual Receiver Monitor (EUT)

Model Number	:	3826
Serial Number	:	N/A
Manufacturer	:	Technic Star Products Factory

3.5. Operating Condition of EUT

1. Setup the EUT as shown in Section 3.2..
2. Let the the EUT work in test mode (On) and measure it.

3.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-1992 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120KHz in the 30-10000MHz and 1MHz had been set in above 10000MHz Range.

The frequency range from 30MHz to 10000MHz is checked.

The test mode (On) is tested in Anechoic Chamber and all the scanning waveforms are attached in Appendix II.

3.7. Radiated Emission Noise Measurement Result

PASS.

The frequency range from 30MHz to 1000MHz is investigated.
Please see the following pages.

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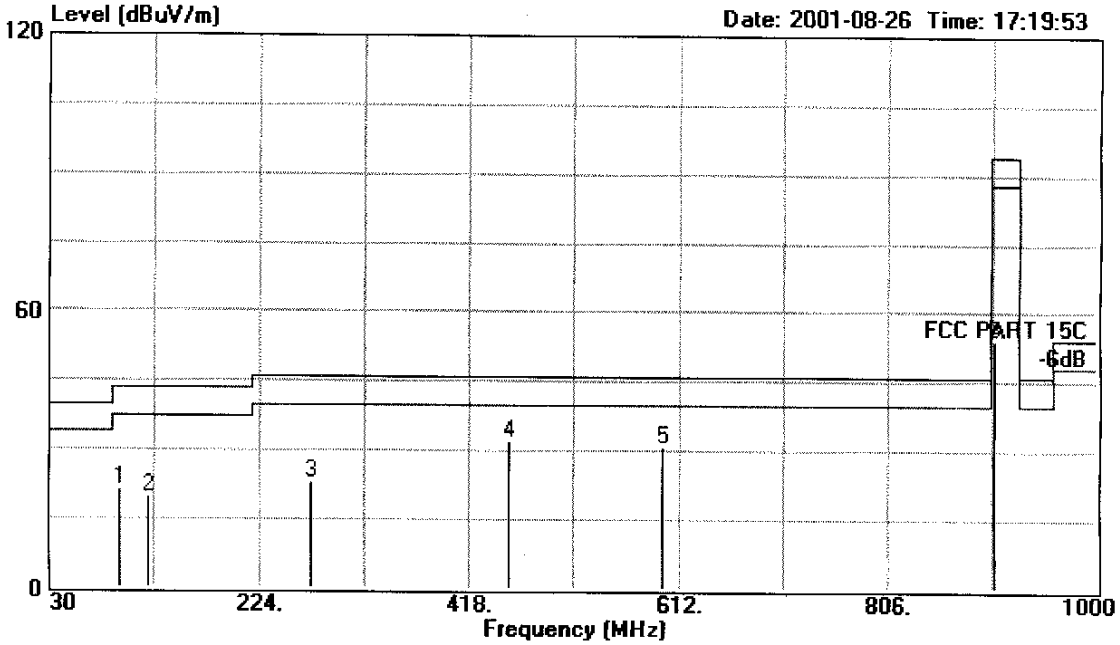

Site : site
Condition : FCC PART 15C 3m 2176FACTOR HORIZONTAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Tomy
Memo : CHILD UNIT Channel A H:1.8m Deg:90'

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1	94.990	21.70	-21.80	43.50	6.46	2.54	12.70	15.24	0.00	
2	122.150	20.12	-23.38	43.50	1.72	2.92	15.48	18.40	0.00	
3	270.560	23.00	-23.00	46.00	1.52	4.12	17.36	21.48	0.00	
4	453.890	32.26	-13.74	46.00	4.78	4.91	22.57	27.48	0.00	
5	597.450	31.05	-14.95	46.00	1.50	5.32	24.23	29.55	0.00	
6	905.370	54.16	-39.84	94.00	21.60	5.95	26.61	32.56	0.00	

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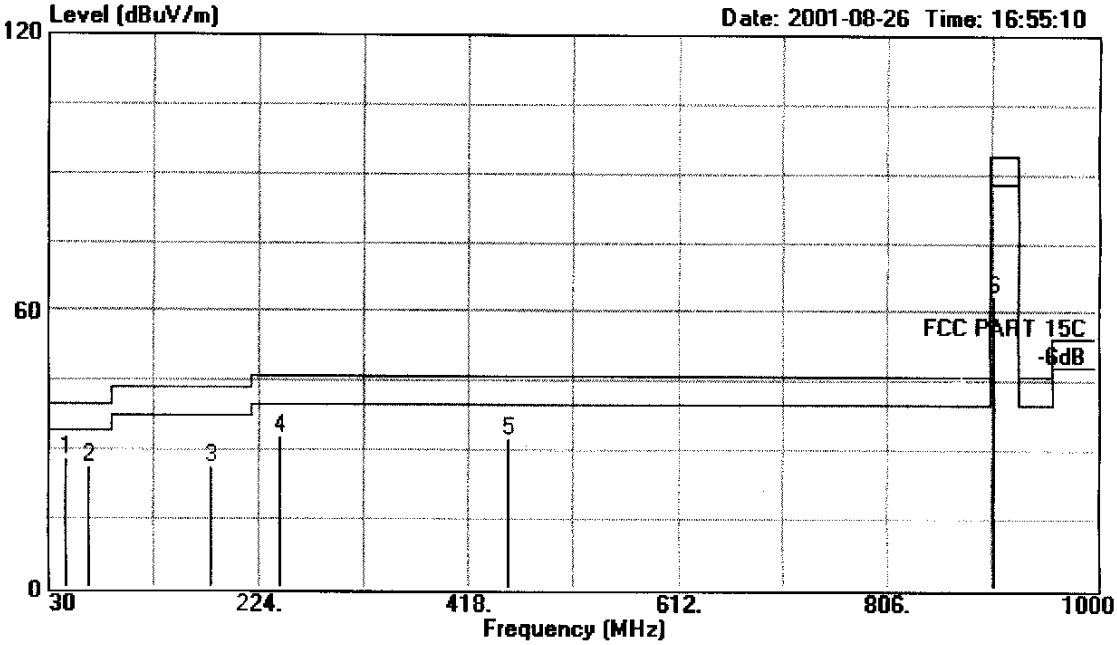

Site : site
Condition : FCC PART 15C 3m 2176FACTOR VERTICAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Tomy
Memo : CHILD UNIT Channel A H:1m Deg:90'

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1	46.490	28.04	-11.96	40.00	12.13	1.46	14.45	15.91	0.00	
2	67.830	26.39	-13.61	40.00	10.74	2.03	13.62	15.65	0.00	
3	179.380	26.59	-16.91	43.50	8.63	3.50	14.46	17.96	0.00	
4	242.430	32.90	-13.10	46.00	10.97	3.96	17.97	21.93	0.00	
5	453.890	32.61	-13.39	46.00	5.49	4.91	22.21	27.12	0.00	
6	905.370	63.55	-30.45	94.00	31.10	5.95	26.50	32.45	0.00	

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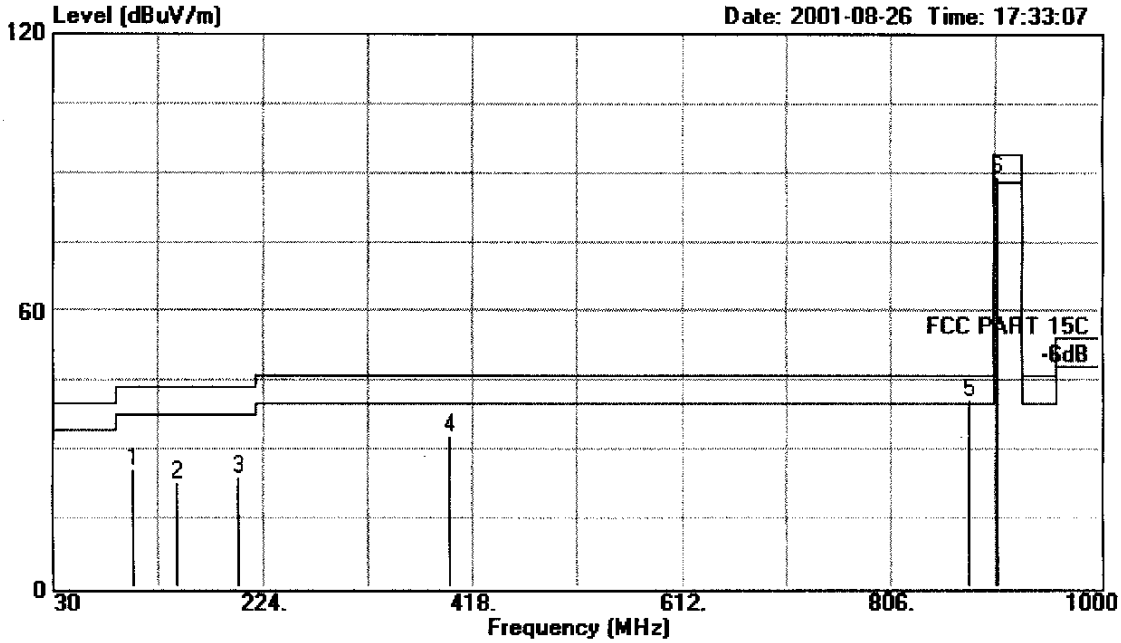

Site : site
Condition : FCC PART 15C 3m 2176FACTOR HORIZONTAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Tomy
Memo : CHILD UNIT Channel B H:1m Deg:90'

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1	104.690	25.61	-17.89	43.50	8.97	2.69	13.95	16.64	0.00	
2	144.460	22.58	-20.92	43.50	4.57	3.17	14.84	18.01	0.00	
3	200.720	23.81	-19.69	43.50	6.48	3.67	13.66	17.33	0.00	
4	395.690	33.00	-13.00	46.00	6.51	4.70	21.79	26.49	0.00	
5 !	878.750	40.86	-5.14	46.00	8.49	5.90	26.47	32.37	0.00	
6 !	905.370	89.26	-4.74	94.00	56.70	5.95	26.61	32.56	0.00	

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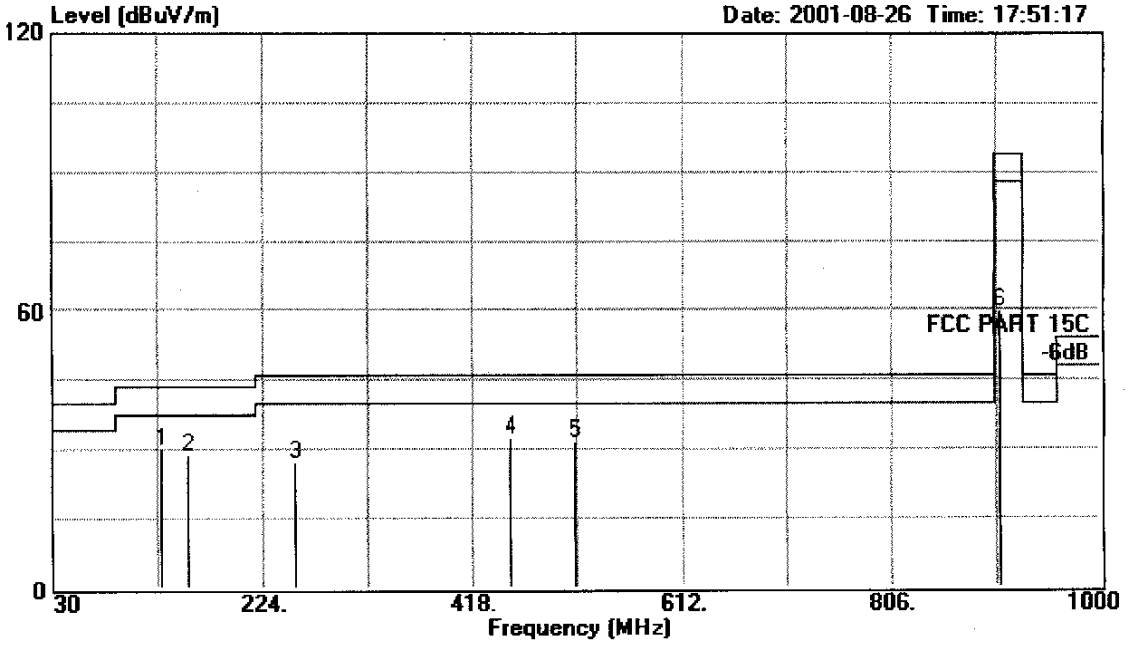

Site : site
Condition : FCC PART 15C 3m 2176FACTOR VERTICAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Tomy
Memo : CHILD UNIT Channel B H:1m Deg:35'

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1	130.880	29.95	-13.55	43.50	10.11	3.03	16.81	19.84	0.00	
2	155.130	28.69	-14.81	43.50	9.16	3.29	16.24	19.53	0.00	
3	253.100	27.15	-18.85	46.00	4.70	4.02	18.43	22.45	0.00	
4	452.920	32.40	-13.60	46.00	5.31	4.90	22.19	27.09	0.00	
5	512.090	31.64	-14.36	46.00	3.37	5.09	23.18	28.27	0.00	
6	905.905	59.97	-34.03	94.00	27.50	5.95	26.52	32.47	0.00	

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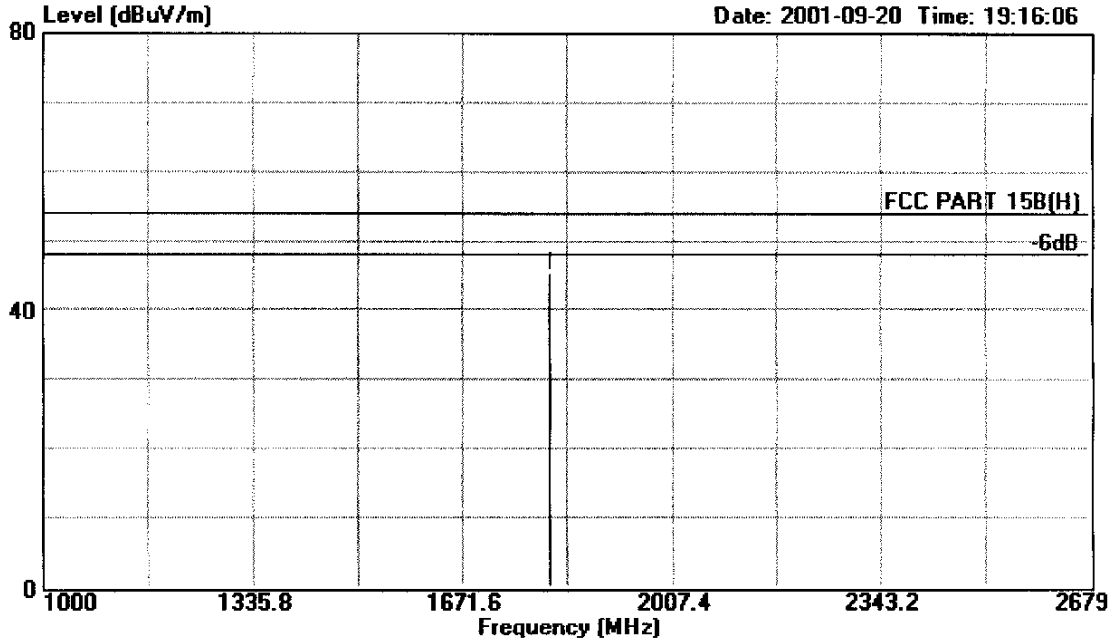

Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR HORIZONTAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Jimmy
Memo : CHILD UNIT Channel A

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1	1810.744	45.23	-8.77	54.00	47.28	4.75	28.40	-2.05	35.20	Aver

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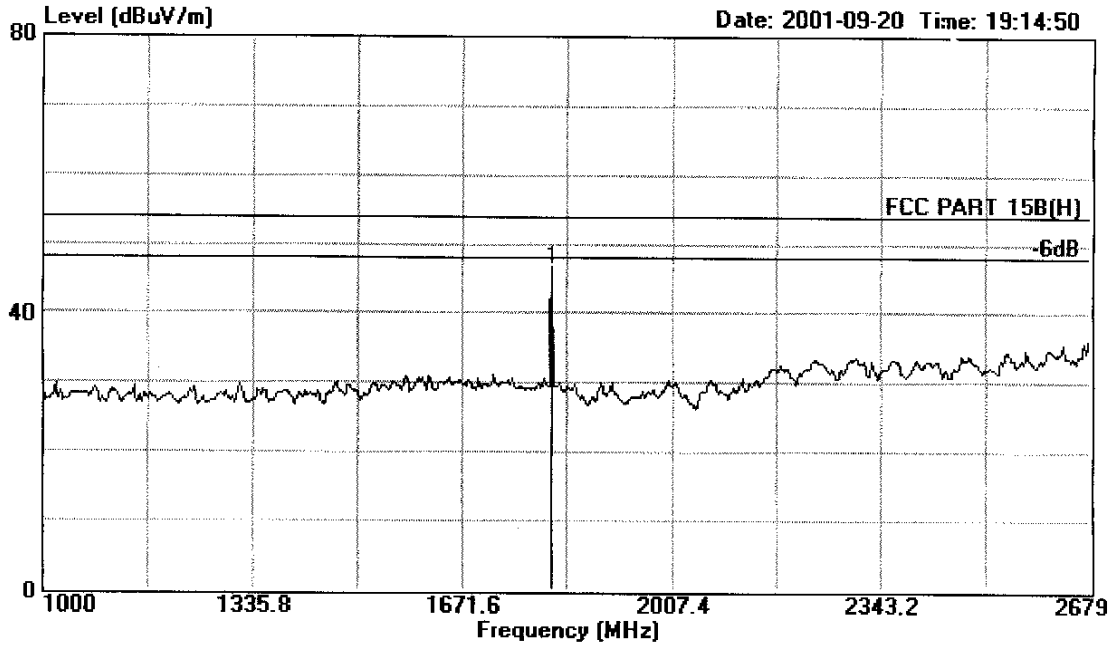

Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR HORIZONTAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Jimmy
Memo : CHILD UNIT Channel A

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1	1812.640	46.57	-7.43	54.00	48.60	4.76	28.41	-2.03	35.20	Peak

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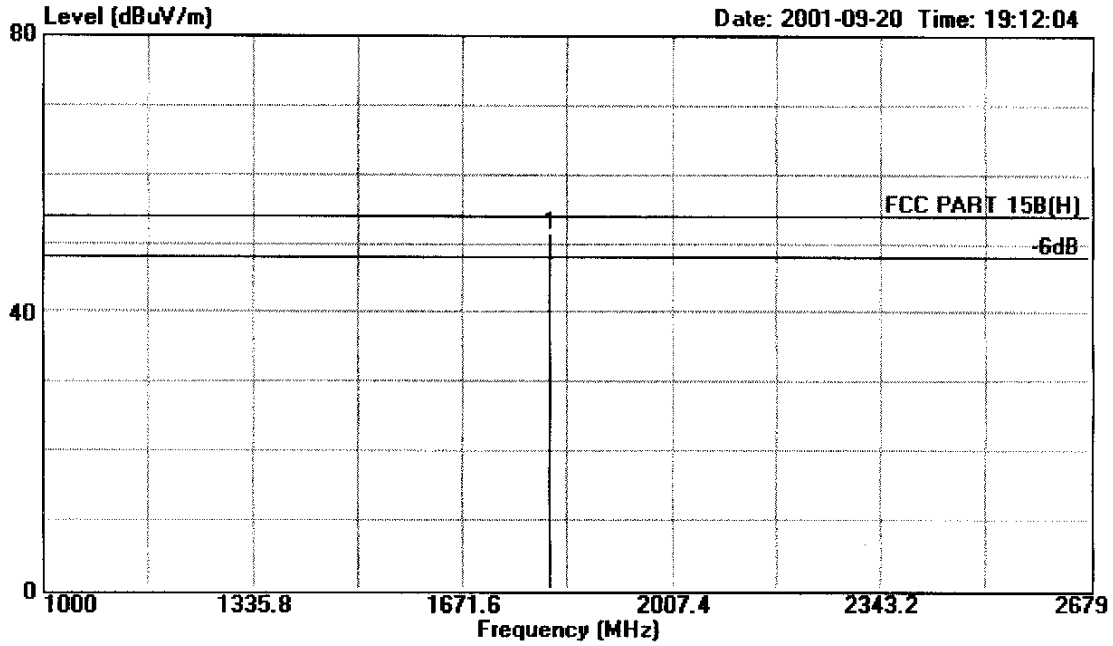

Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR VERTICAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC Adaptor Input 120V 60Hz
Test Engineer : Jimmy
Memo : CHILD UNIT Channel A

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1 !	1810.745	51.47	-2.53	54.00	53.52	4.75	28.40	-2.05	35.20	Aver

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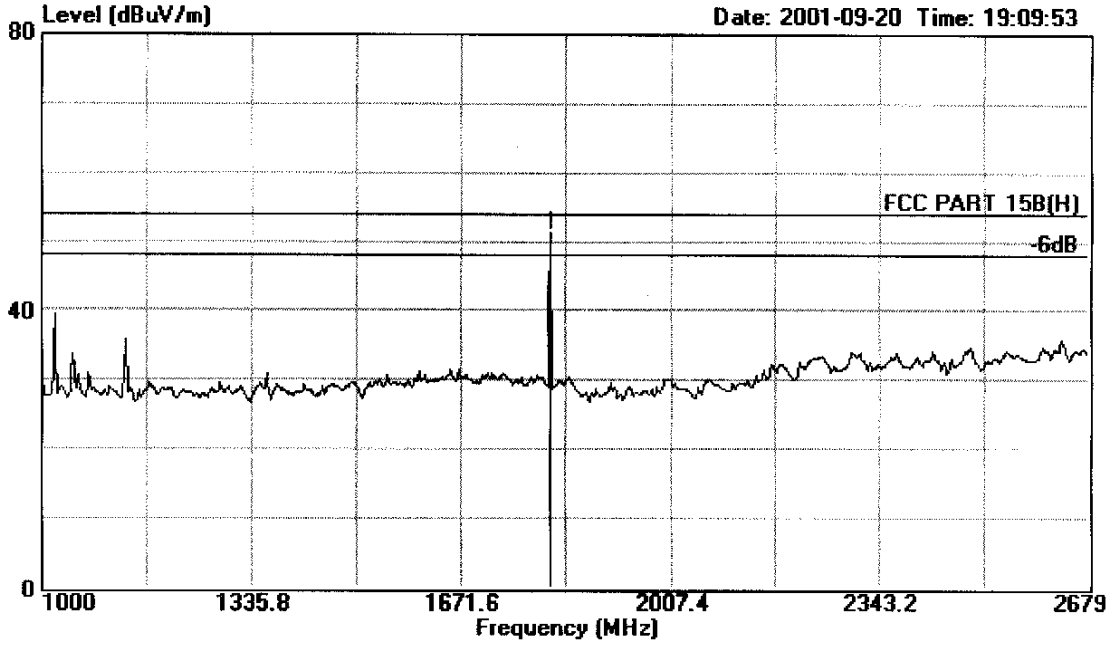
acsadmin@

Data#: 53 File#: C:\EMI TEST DATA\T\Technic.EMI



Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR VERTICAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Jimmy
Memo : CHILD UNIT Channel A

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1 !	1812.640	51.32	-2.68	54.00	53.35	4.76	28.41	-2.03	35.20	Peak

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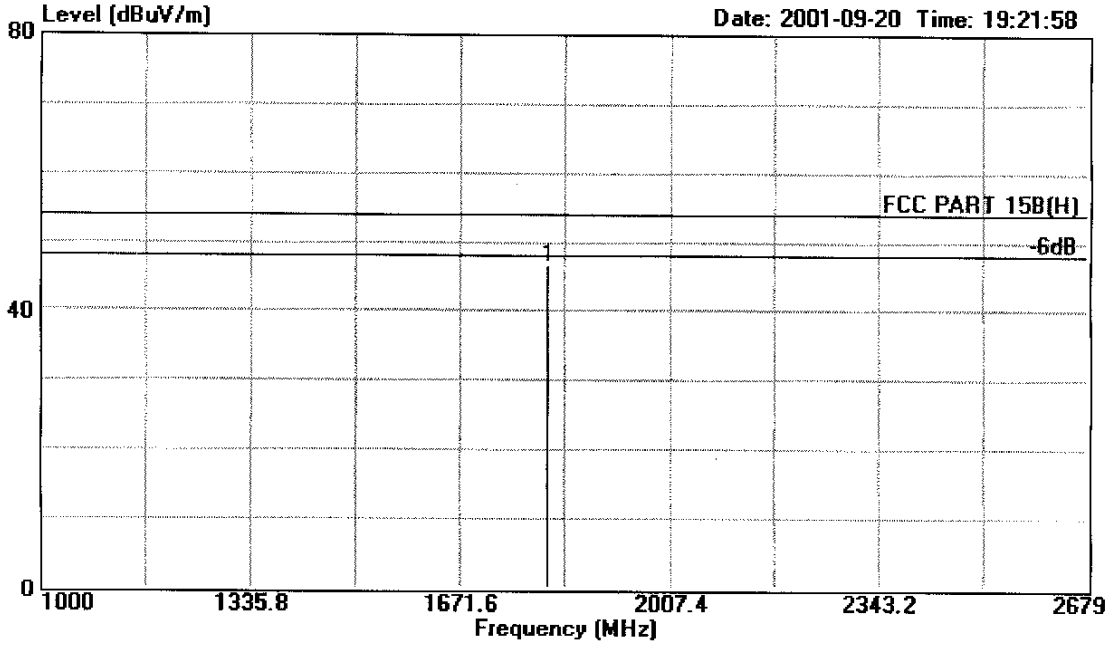
Data#: 51 File#: C:\EMI TEST DATA\T\Technic.EMI



Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR HORIZONTAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Jimmy
Memo : CHILD UNIT Channel B

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Antenna Factor	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1	1811.811	46.52	-7.48	54.00	48.55	4.76	28.41	-2.03	35.20	

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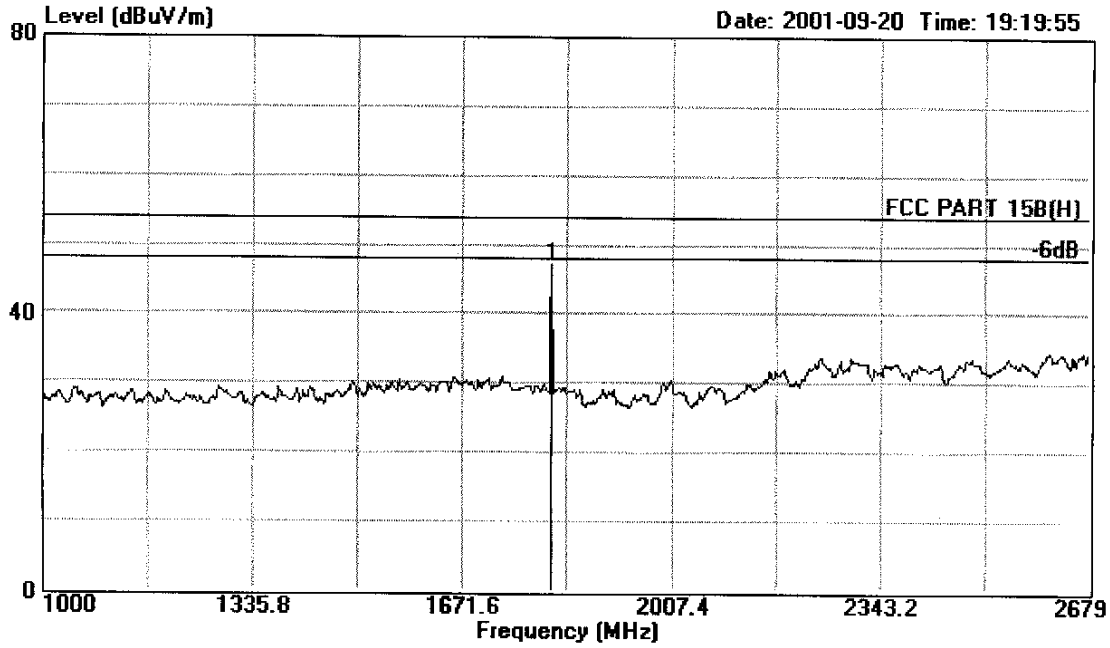
Data#: 55 File#: C:\EMI TEST DATA\T\Technic.EMI



Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR HORIZONTAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Jimmy
Memo : CHILD UNIT Channel B

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1	1812.640	47.13	-6.87	54.00	49.16	4.76	28.41	-2.03	35.20	Peak

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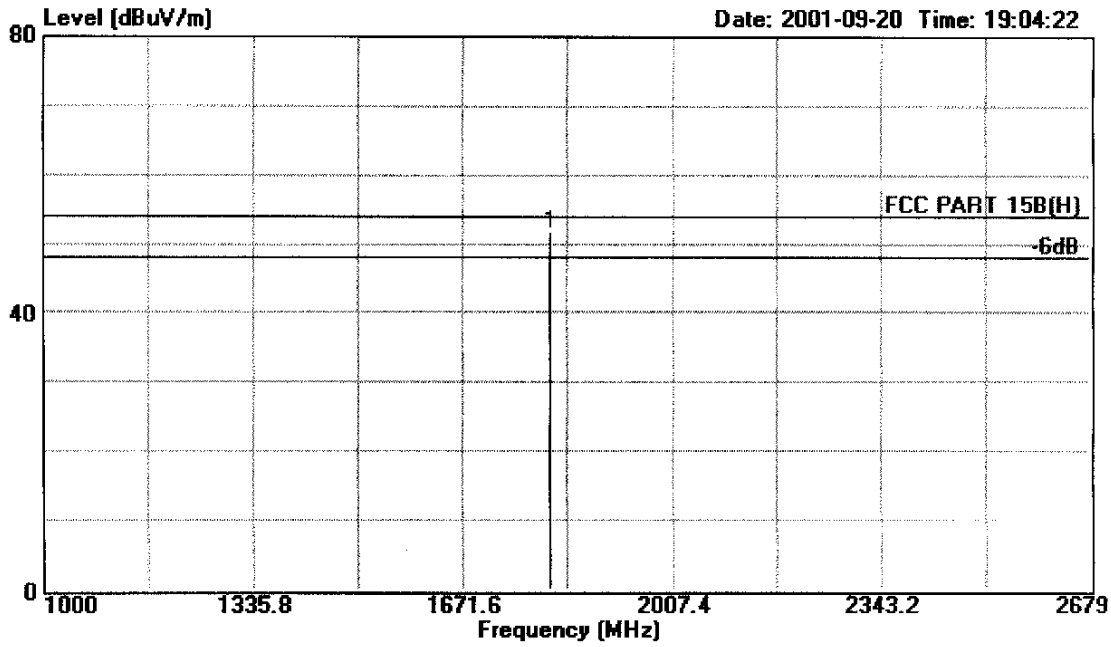
Data#: 41 File#: C:\EMI TEST DATA\T\Technic.EMI



Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR VERTICAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Jimmy
Memo : CHILD UNIT Channel B

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1 !	1811.811	51.72	-2.28	54.00	53.75	4.76	28.41	-2.03	35.20	Aver

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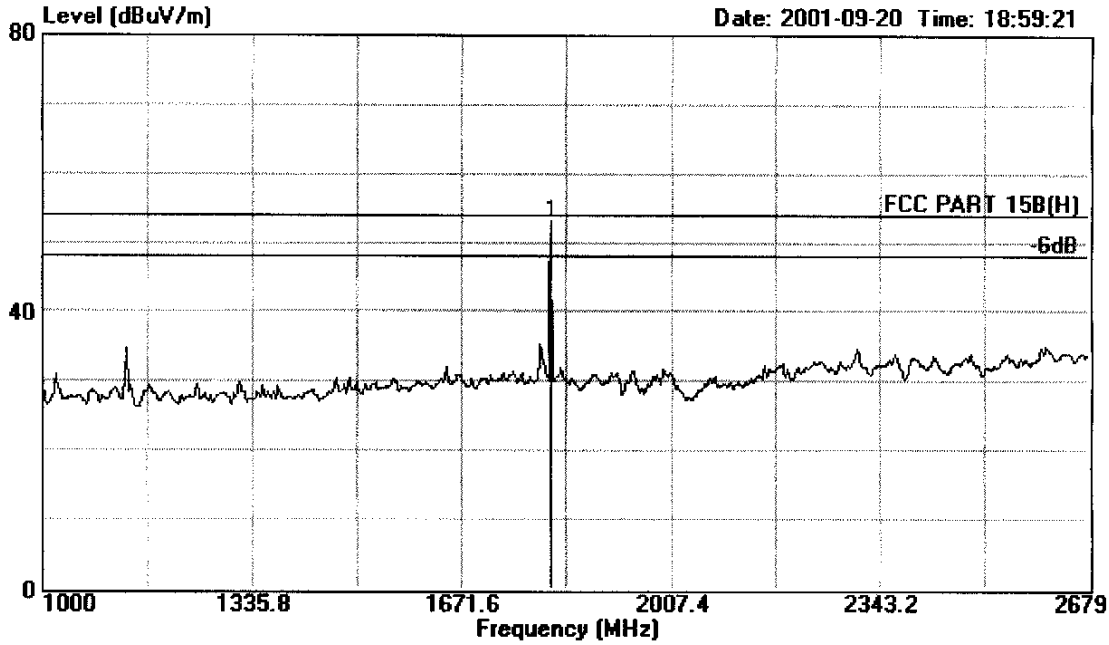
Data#: 52 File#: C:\EMI TEST DATA\T\Technic.EMI



Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR VERTICAL
EUT : 900MHz Dual Receiver Monitor
M/N : 3826
Power : DC 6.0V Adaptor Input 120V 60Hz
Test Engineer : Tomy
Memo : CHILD UNIT Channel B

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Factor	Preamp Factor	Reme
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1 !	1812.640	53.28	-0.72	54.00	55.31	4.76	28.41	-2.03	35.20	Peak