APPLICATION FOR CERTIFICATION
On Behalf of
Tsann Kuen Enterprise Co., Ltd.

Microwave Oven

Model：(1)TSK-M1601ME (2)TSK-M1602MA (3)TSK-M1601MA

FCC ID：RBJ-TSKM160X

Prepared for : Tsann Kuen Enterprise Co., Ltd.
3, Kai Fa 2nd Road, Pao An Industrial District,
Ren Teh Hsiang, Tainan, Taiwan

Prepared By : Audix Corporation
Technical Division EMC Department
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TEST REPORT CERTIFICATION

Applicant	:	Tsann Kuen Enterprise Co., Ltd.
Manufacturer	:	Tsann Kuen (Zhangzhou) Enterprise Co., Ltd.
EUT Description	:	Microwave Oven
FCC ID	:	RBJ-TSKM160X
		(A) MODEL NO. : (1)TSK-M1601ME (2)TSK-M1602MA (3)TSK-M1601MA
		(B) SERIAL NO. : N/A
		(C) POWER SUPPLY : AC 120V, 60Hz

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 18 SUBPART C, OCT 2005
AND FCC/OST MP-5 FEBRUARY 1986

The device described above was tested by Audix Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 18 subpart C limits both radiated and conducted emissions.

The measurement results are contained in this test report and Audix Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Corporation.

Date of Test : Jun. 20 ~ 23, 2006

Prepared by : Cherry Wang Jul. 17, 2006
(Cherry Wang/Section manager)

Test Engineer : Ben Cheng Jul. 18. 2006
(Ben Cheng/Section Manager)

Approved & Authorized Signer : Leon Liu Jul. 18 2006
(Leon Liu/Senior Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

Description : Microwave Oven

Model Number : (1)TSK-M1601ME (2)TSK-M1602MA (3)TSK-M1601MA

The differences among above models are in the appearance、control panel and door, others circuit and internal configuration are the same.

Model Number	Control Panel	Appearance
(1)TSK-M1601ME	Electronic Panel	Refer to the photos of EUT
(2)TSK-M1602MA	Mechanical Panel	
(3)TSK-M1601MA		

The models TSK-M1601ME and TSK-M1602MA are representative selected and reported in this test report.

FCC ID : RBJ-TSKM160X

Applicant : Tsann Kuen Enterprise Co., Ltd.
3, Kai Fa 2nd Road, Pao An Industrial District, Ren Teh Hsiang, Tainan, Taiwan

Manufacturer : Tsann Kuen (Zhangzhou) Enterprise Co., Ltd.
Tsann Kuen Industrial Park, Longchi Development District, Zhangzhou, Fujian, 363000, P.R. China

Magnetron : Witol, Type No. 2M315H

H.V. Transformer : YLEC, Type No. YL-R601ACK

Fan Motor : Heng Cheng, Type YJF62A-120(CK04)

Frequency : 2450MHz

Power Supply : AC 120V, 60Hz

Rated Current : 10A

Microwave Output : 600W

Rated Power Consumption : 950W

Power Cord	:	Non-Shielded, Undetachable, 1.1m (3-Pin)
Date of Receipt of Sample	:	Jun. 09, 2006
Date of Test	:	Jun. 20 ~ 23, 2006

1.2. Description of Test Facility

Name of Firm	:	**Audix Corporation** **Technical Division EMC Department** No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County, Taiwan, R.O.C.
Test Site (C2/AC)	:	**No. 2 Shielded Room** No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County, Taiwan, R.O.C. **Semi-Anechoic Chamber** Federal Communication Commission Registration Number: 90993 Date of Renewal: May 16, 2006 No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei County, Taiwan, R.O.C.
NVLAP Lab. Code	:	200077-0

(NVLAP is a NATA accredited body under Mutual Recognition Agreement)

DAR-Registration No.	:	DAT-P-145/03-01

1.3. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	±2.91dB
	300MHz~1000MHz	±2.94dB

Remark：Uncertainty = $ku_c(y)$

2. INPUT POWER MEASUREMENT

2.1. Test Equipment

The following test equipment was used during the input power measurement：

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Universal Power Analyzer	Voltech	PM3000A	AL109/9072	May 16, 06’	May 15, 07’

2.2. Test Setup

2.2.1. Block Diagram of connection between EUT and simulators

MICROWAVE OVEN (EUT)

2.2.2. Block Diagram of connection between EUT and test equipment

EUT —— **UNIVERSAL POWER ANALYZER**

2.3. Operating Condition of EUT and Measurement Procedure

The input power was measured using a universal power analyzer. 700 milliliters of water in the beaker was placed in the center of the Microwave Oven (EUT). The Microwave Oven (EUT) was operated at the rated input and full output power for 6 minutes.

2.4. Measurement Results

EUT：Microwave Oven **M/N：TSK-M1601ME**

Test Date：Jun. 23, 2006 Temperature：26℃ Humidity：45%

Load：700ml

Measured Input			Manufacturer’s Input	
Voltage (Vac)	Current (A)	Input Power (W)	Current (A)	Input Power (W)
120V	9.3A	997W	10A	1200W

EUT：Microwave Oven **M/N：TSK-M1602MA**

Test Date：Jun. 23, 2006 Temperature：26℃ Humidity：45%

Load：700ml

Measured Input			Manufacturer’s Input	
Voltage (Vac)	Current (A)	Input Power (W)	Current (A)	Input Power (W)
120V	9.24A	995W	10A	1200W

3. OUTPUT POWER MEASUREMENT

3.1. Test Equipment

None.

3.2. Test Setup

MICROWAVE OVEN (EUT)

3.3. Operating Condition of EUT and Measurement Procedure

The Calorimetric Method was used to determine maximum output power. 1000 milliliters of water in the beaker was placed in the center of the Microwave Oven (EUT). A mercury thermometer was used to measure temperature rise.

3.4. Measurement Results

EUT：Microwave Oven **M/N：TSK-M1601ME**

Test Date：Jun. 23, 2006 Temperature：26℃ Humidity：45%

Load：1000ml Manufacture's Output：600W

Load	Initial Water Temperature ℃	Final Water Temperature ℃	Heating Duration (Sec.)
1000ml	25 ℃	38 ℃	120

$$\text{Power [W]} = \frac{\text{4.2 (Joules/Cal) x Volume in ml x Temperature Rise}}{\text{Time in Seconds}}$$

$$\text{Power [W]} = \frac{4.2 \times 1000 \times 13}{120} = 455\text{W}$$

EUT：Microwave Oven **M/N：TSK-M1602MA**

Test Date：Jun. 23, 2006 Temperature：26℃ Humidity：45%

Load：1000ml Manufacture's Output：600W

Load	Initial Water Temperature ℃	Final Water Temperature ℃	Heating Duration (Sec.)
1000ml	24 ℃	38 ℃	120

$$\text{Power [W]} = \frac{\text{4.2 (Joules/Cal) x Volume in ml x Temperature Rise}}{\text{Time in Seconds}}$$

$$\text{Power [W]} = \frac{4.2 \times 1000 \times 14}{120} = 490\text{W}$$

4. OUTPUT FREQUENCY MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the input power measurement：

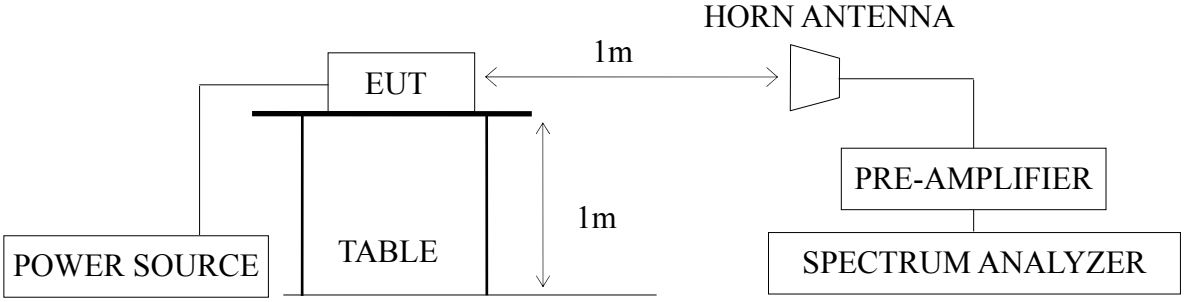
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05’	Sep. 25, 06’
2.	Horn Antenna	EMCO	3115	9112-3775	Jun. 01, 05’	May 31, 07’
3.	Pre-Amplifier	HP	8449B	3008A01284	Jul. 05, 05’	Jul. 04, 06’

4.2. Test Setup

4.2.1. Block Diagram of connection between EUT and simulators

MICROWAVE OVEN (EUT)

4.2.2. Block Diagram of connection between EUT and test equipment



4.3. Operating Condition of EUT and Measurement Procedure

The fundamental frequency was measured using a spectrum analyzer. The Microwave Oven (EUT) was operated in “Power-High” mode and without load.

4.4. Measurement Results

EUT：Microwave Oven **M/N：TSK-M1601ME**

Test Date：Jun. 23, 2006 Temperature：26℃ Humidity：45%

Load：No Load

Measured Frequency (MHz)	Manufacture’s Rated Frequency
2452.8	2450

EUT：Microwave Oven **M/N：TSK-M1602MA**

Test Date：Jun. 23, 2006 Temperature：26℃ Humidity：45%

Load：No Load

Measured Frequency (MHz)	Manufacture's Rated Frequency
2426.9	2450

5. FREQUENCY MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the input power measurement：

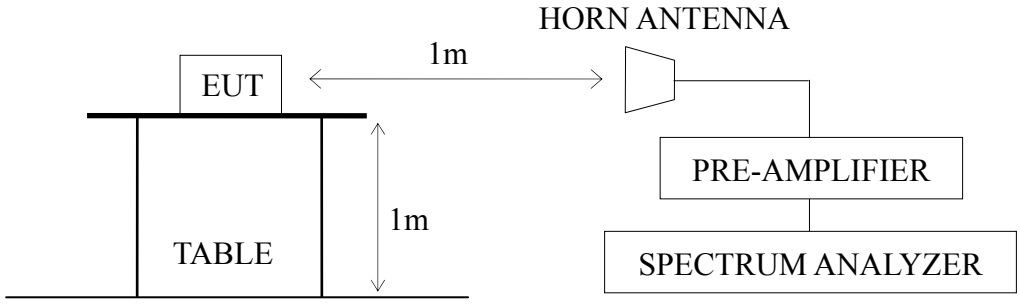
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05’	Sep. 25, 06’
2.	Horn Antenna	EMCO	3115	9112-3775	Jun. 01, 05’	May 31, 07’
3.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 09, 06’	Mar. 08, 07’

5.2. Test Setup

5.2.1. Block Diagram of connection between EUT and simulators

MICROWAVE OVEN (EUT)

5.2.2. Block Diagram of connection between EUT and test equipment



5.3. Operating Condition of EUT and Measurement Procedure

5.3.1. The Variation of frequency with time

The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, 1000 milliliters of water in the beaker was placed in the center of the Microwave Oven (EUT) and the EUT was operated at maximum output power.

The fundamental operating frequency was monitored until the water load was reduced to 20% of the original load.

5.3.2. The Variation of frequency for line voltage

Following the above test, after operating the oven long enough to assure that stable operating temperature were obtained, the operating frequency was monitored as the input voltage was varied between 80 to 125 percent of the nominal rating.

The water load was maintained at 1000ml for the duration of the test.

5.4. Measurement Results

PASSED. All the test results are listed in the following and next two pages.

EUT：Microwave Oven **M/N：TSK-M1601ME**

Test Date：Jun. 21, 2006 Temperature：26℃ Humidity：49%

5.4.1. The Variation of frequency with time

Frequency was measured at the rated input voltage (AC 120V).
Initial Load: 1000ml
Final Load: 200ml
Fundamental Frequency: 2452.8MHz
Limit: 2.4GHz < f < 2.5GHz
Maximum Frequency Observed: 2440.9MHz
Minimum Frequency Observed: 2424.8MHz
Results: PASSED.

5.4.2. The Variation of frequency for line voltage

Variation of line voltage from 80% (96V) to 125% (150V)
Load: 1000ml
Fundamental Frequency: 2452.8MHz
Limit: 2.4GHz < f < 2.5GHz
Maximum Frequency Observed: 2442.3MHz
Minimum Frequency Observed: 2456.3MHz
Results: PASSED.

EUT：Microwave Oven **M/N：TSK-M1602MA**

Test Date：Jun. 23, 2006 Temperature：26℃ Humidity：45%

5.4.3. The Variation of frequency with time

Frequency was measured at the rated input voltage (AC 120V).
Initial Load: 1000ml
Final Load: 200ml
Fundamental Frequency: 2426.9MHz
Limit: 2.4GHz < f < 2.5GHz
Maximum Frequency Observed: 2440.9MHz
Minimum Frequency Observed: 2430.4MHz
Results: PASSED.

5.4.4. The Variation of frequency for line voltage

Variation of line voltage from 80% (96V) to 125% (150V)
Load: 1000ml
Fundamental Frequency: 2426.9MHz
Limit: 2.4GHz < f < 2.5GHz
Maximum Frequency Observed: 2442.3MHz
Minimum Frequency Observed: 2444.4MHz
Results: PASSED.

M/N: TSK-M1601ME Fundamental Frequency: 2452.8MHz

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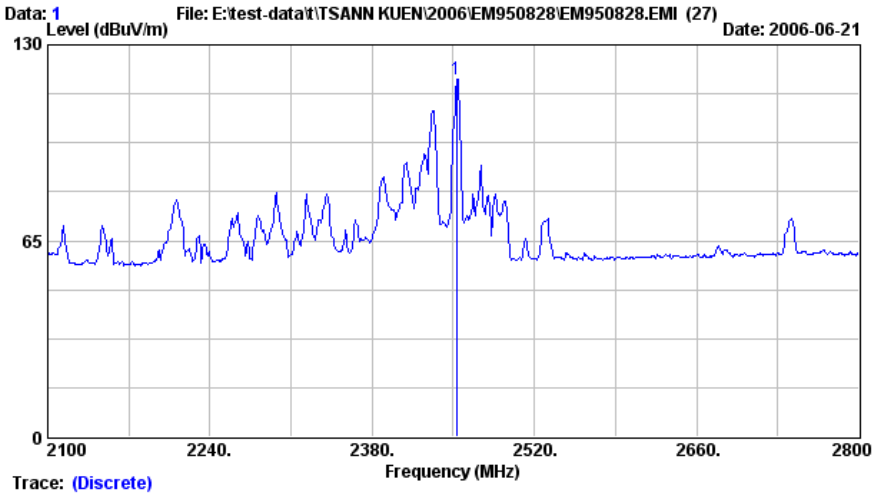


```
Site no.      : A/C Chamber                Data no.   : 1
Dis. / Ant.   : 3m   3115                  Ant. pol.  : VERTICAL
Limit         :
Env. / Ins.   : 8593EM  26*C/49%           Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
                No Load
```

M/N: TSK-M1601ME Load: 200ml, Voltage: 120V

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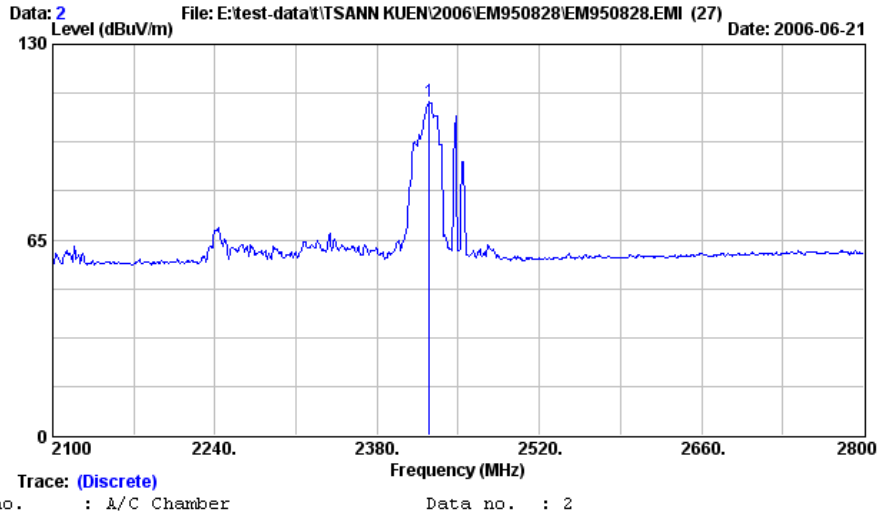


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Site no.      : A/C Chamber                Data no.   : 2
Dis. / Ant.   : 3m   3115                  Ant. pol.  : VERTICAL
Limit         :
Env. / Ins.   : 8593EM  26*C/49%           Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
                200 milliliters of waters in the beaker
                located in the center of the oven
```

M/N: TSK-M1601ME Load: 1000ml, Voltage: 120V

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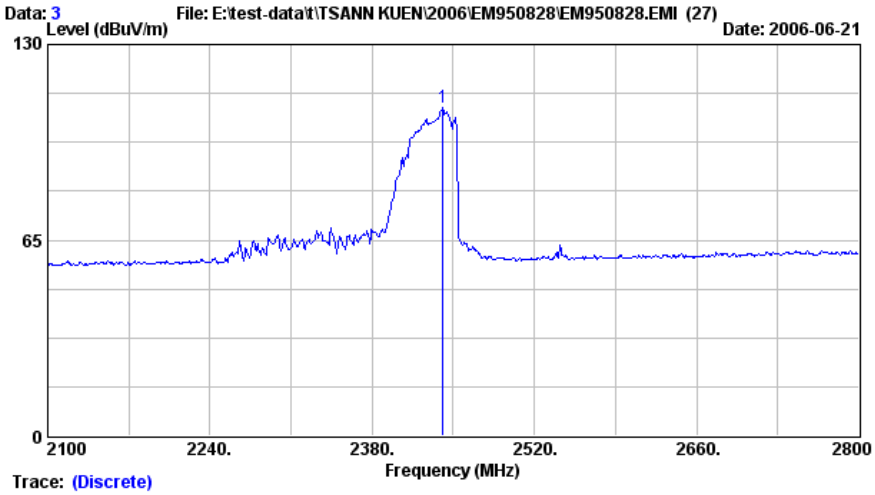


```
Site no.      : A/C Chamber                Data no.   : 3
Dis. / Ant.   : 3m   3115                  Ant. pol.  : VERTICAL
Limit         :
Env. / Ins.   : 8593EM  26*C/49%           Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
                1000 milliliters of waters in the beaker
                located in the center of the oven
```

M/N: TSK-M1601ME Voltage Variation: 80%, Voltage: 96V, Load: 1000ml

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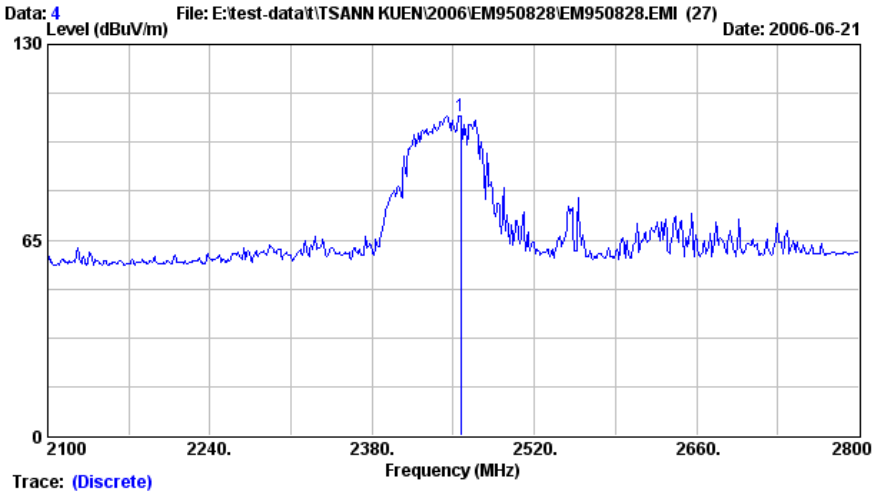


```
Site no.      : A/C Chamber                Data no.   : 4
Dis. / Ant.   : 3m   3115                  Ant. pol.  : VERTICAL
Limit         :
Env. / Ins.   : 8593EM  26*C/49%           Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 96Vac/60Hz
Test Mode     : POWER(MAX)
                1000 milliliters of waters in the beaker
                located in the center of the oven
```

M/N: TSK-M1601ME Voltage Variation: 125%, Voltage: 150V, Load: 1000ml

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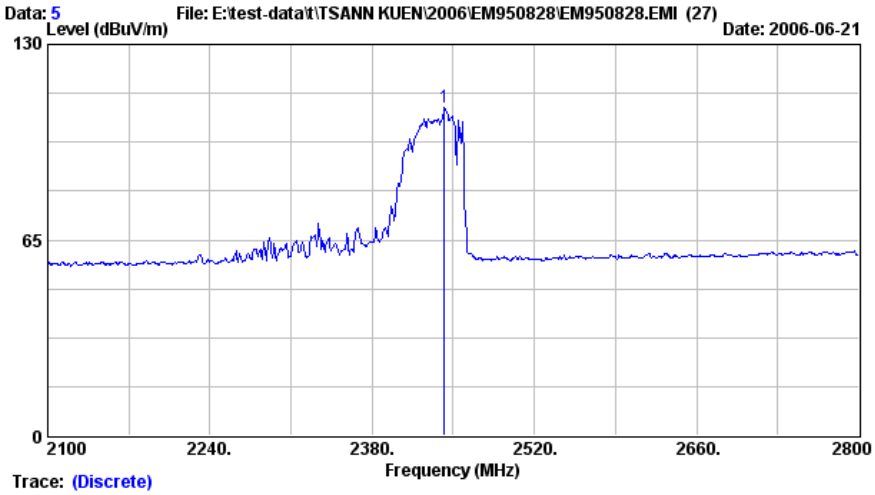


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Site no.      : A/C Chamber                Data no.   : 5
Dis. / Ant.   : 3m   3115                  Ant. pol.  : VERTICAL
Limit         :
Env. / Ins.   : 8593EM  26*C/49%           Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 150Vac/60Hz
Test Mode     : POWER(MAX)
                1000 milliliters of waters in the beaker
                located in the center of the oven
```

M/N: TSK-M1602MA Fundamental Frequency: 2426.9MHz

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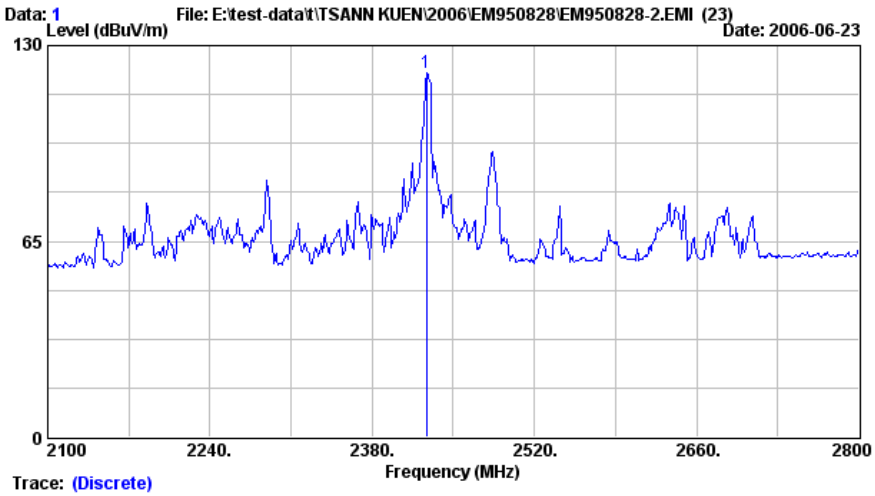


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Site no.      : A/C Chamber                Data no.   : 1
Dis. / Ant.   : 3m   3115                  Ant. pol.  : VERTICAL
Limit         :
Env. / Ins.   : 8593EM  26*C/45%           Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                NO LOAD
```

M/N: TSK-M1602MA Load: 200ml, Voltage: 120V

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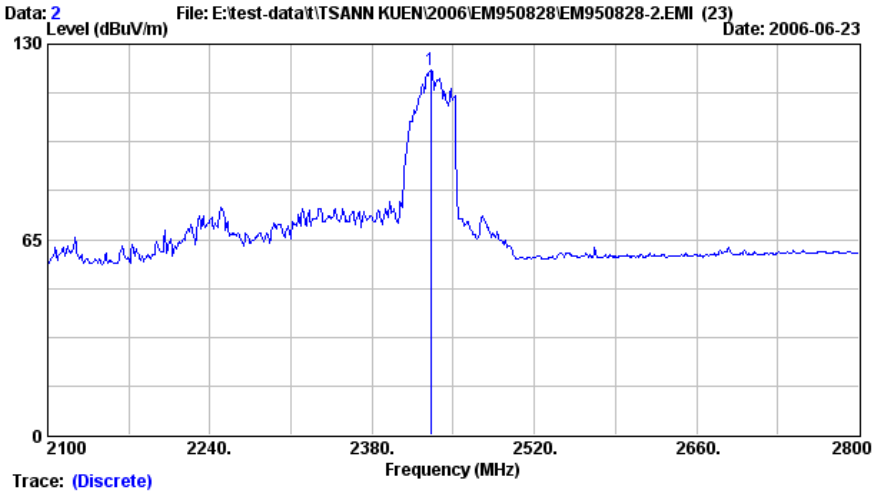


```
Site no.      : A/C Chamber                Data no.   : 2
Dis. / Ant.   : 3m   3115                  Ant. pol.  : VERTICAL
Limit         :
Env. / Ins.   : 8593EM  26*C/45%           Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                200 milliliters of waters in the beaker
                located in the center of the oven
```

M/N: TSK-M1602MA Load: 1000ml, Voltage: 120V

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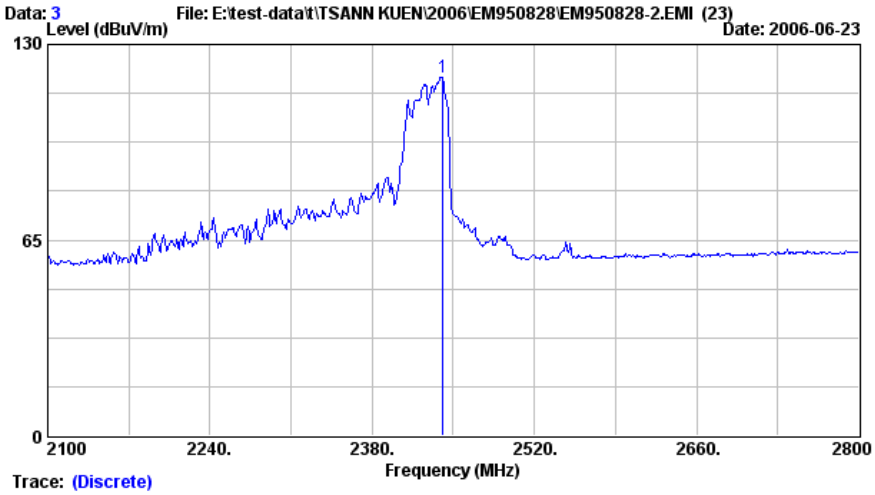


```
Site no.      : A/C Chamber                Data no.   : 3
Dis. / Ant.   : 3m   3115                  Ant. pol.  : VERTICAL
Limit         :
Env. / Ins.   : 8593EM  26*C/45%           Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                1000 milliliters of waters in the beaker
                located in the center of the oven
```

M/N: TSK-M1602MA Voltage Variation: 80%, Voltage: 96V, Load: 1000ml

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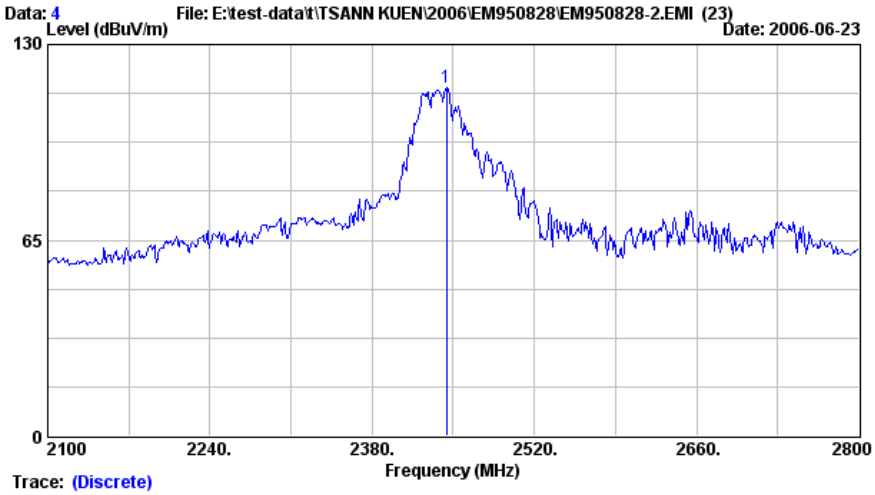


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Site no.      : A/C Chamber                Data no.   : 4
Dis. / Ant.   : 3m   3115                  Ant. pol.  : VERTICAL
Limit         :
Env. / Ins.   : 8593EM  26*C/45%           Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 96Vac/60Hz
Test Mode     : HIGH
                1000 milliliters of waters in the beaker
                located in the center of the oven
```

M/N: TSK-M1602MA Voltage Variation: 125%, Voltage: 150V, Load: 1000ml

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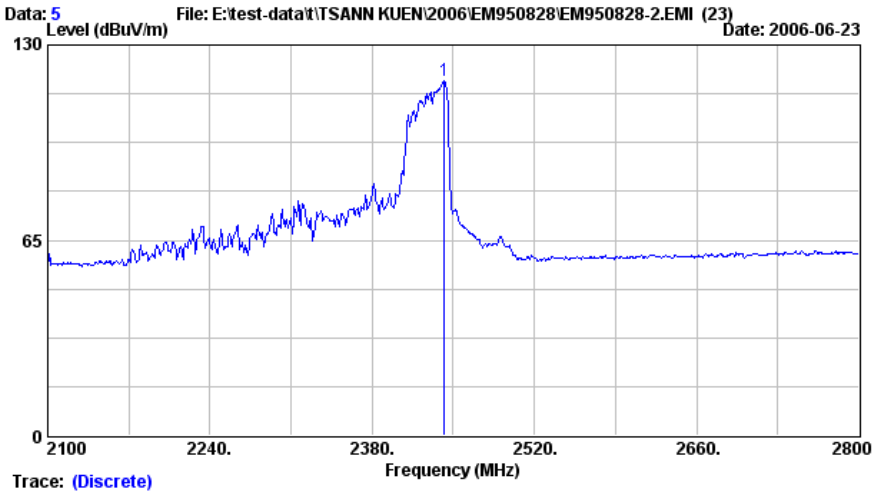



```
Site no.      : A/C Chamber                Data no.   : 5
Dis. / Ant.   : 3m   3115                  Ant. pol.  : VERTICAL
Limit         :
Env. / Ins.   : 8593EM  26*C/45%           Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 150Vac/60Hz
Test Mode     : HIGH
                1000 milliliters of waters in the beaker
                located in the center of the oven
```

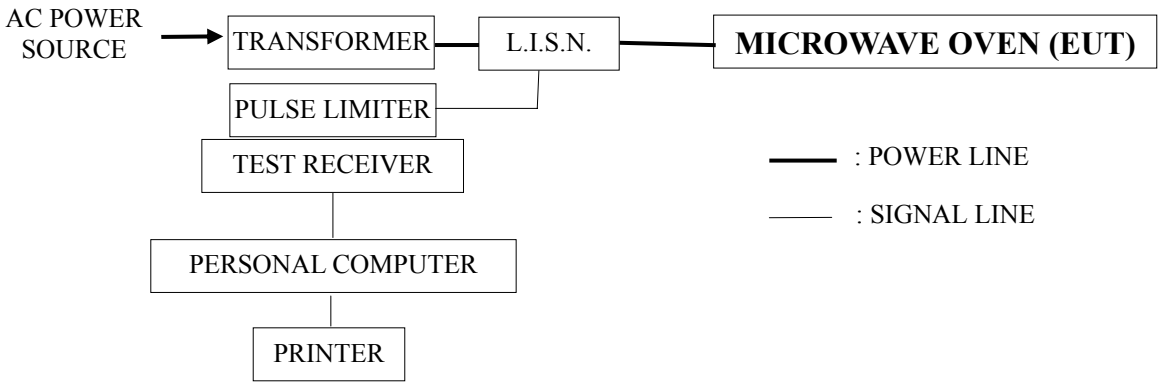
6. CONDUCTED EMISSION MEASUREMENT

6.1.Test Equipment

The following test equipment was used during the conducted emission measurement**:**

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCS30	100265	Sep. 27, 05’	Sep. 26, 06’
2.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	Apr. 19, 06’	Apr. 18, 07’
3.	Pulse Limiter	R&S	ESH3Z2	001	Mar. 11, 06’	Mar. 10, 07’

6.2.Test Setup



6.3.Conduction Limits [18.307(b)]

Frequency of Emission	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV*	56 ~ 46 dBμV*
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: * Decreases with the logarithm of the frequency.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown on 6.2.

6.4.2. Turned on the power of all equipment.

6.4.3. The Microwave Oven (EUT) was set in test modes, and all the test modes are listed in section 6.6.

6.5. Test Procedure

The EUT was put on table which was above the ground by 80cm and its power cord was connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)
Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables were manipulated according to FCC PART 18 during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 0.15MHz to 30MHz was pre-scanned with a peak detector. All the final readings from test receiver were measured with Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

6.6. Conducted Emission Measurement Results

PASSED. All emissions not reported below are too low against the prescribed limits.

EUT：Microwave Oven
M/N：(1)TSK-M1601ME (2)TSK-M1602MA

The EUT with following test modes was performed during this section testing and selected the worst test modes **[Mode 1 & Mode 8]** to read Q.P. values, all the test results are attached in next pages. **(※ the worst test mode)**

Test Date：Jun. 20, 2006 Temperature：24℃ Humidity：38%
The details of test mode and reference test data are as follows：

No.	Test Model	Operating Mode	Reference Test Data No.	
			Neutral	Line
※1.	TSK-M1601ME	**Power (Max.)**	**# 1**	**# 2**
2.		Power (Mid.)	# 4	# 3
3.		Power (Min.)	# 6	# 5
4.		Defrost	# 8	# 7
5.		Beverage	# 9	# 10
6.		Plzza	# 12	# 11
7.		Potato	# 13	# 14

Test Date：Jun. 20, 2006 Temperature：24℃ Humidity：38%

The details of test mode and reference test data are as follows：

No.	Test Model	Operating Mode	Reference Test Data No.	
			Neutral	Line
※8.	TSK-M1602MA	**Power (High)**	**# 16**	**# 15**
9.		Power (Mid.)	# 17	# 18
10.		Power (Low)	# 20	# 19
11.		Warm	# 21	# 22
12.		Defrost	# 23	# 24

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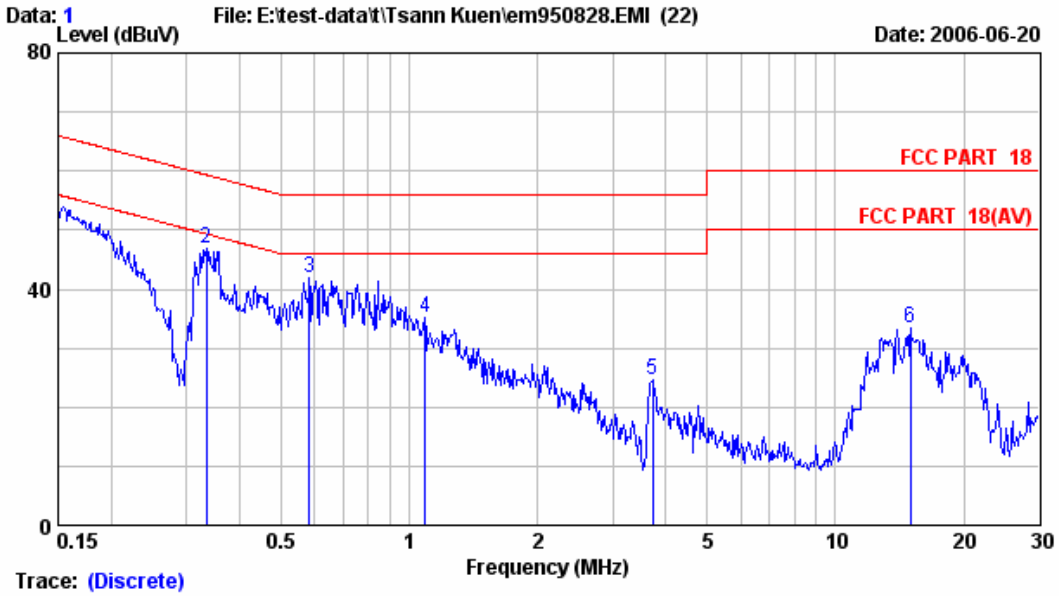

Site : No.2 Shielded room Data : 1
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1601ME
Power Rating : 120Vac/60Hz
Test Mode : POWER(MAX)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.150	0.30	0.24	53.60	54.14	66.00	11.86	QP
2	0.334	0.13	0.30	46.44	46.87	59.35	12.48	QP
3	0.582	0.10	0.35	41.36	41.81	56.00	14.19	QP
4	1.088	0.10	0.40	34.74	35.24	56.00	20.76	QP
5	3.720	0.10	0.40	24.03	24.53	56.00	31.47	QP
6	14.986	0.20	0.70	32.65	33.55	60.00	26.45	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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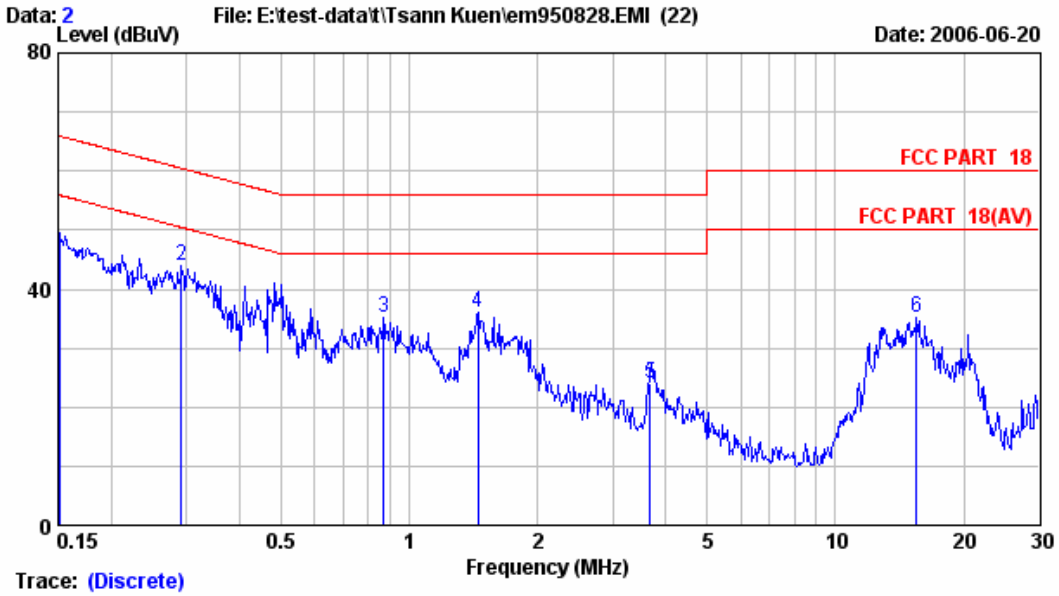

Site : No.2 Shielded room Data : 2
Condition : KNW-407 Phase : LINE
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1601ME
Power Rating : 120Vac/60Hz
Test Mode : POWER(MAX)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.151	0.30	0.24	48.91	49.44	65.96	16.51	QP
2	0.292	0.15	0.29	43.39	43.83	60.46	16.63	QP
3	0.871	0.10	0.39	34.54	35.03	56.00	20.97	QP
4	1.449	0.10	0.40	35.54	36.04	56.00	19.96	QP
5	3.681	0.10	0.40	23.42	23.92	56.00	32.08	QP
6	15.470	0.21	0.70	34.21	35.12	60.00	24.88	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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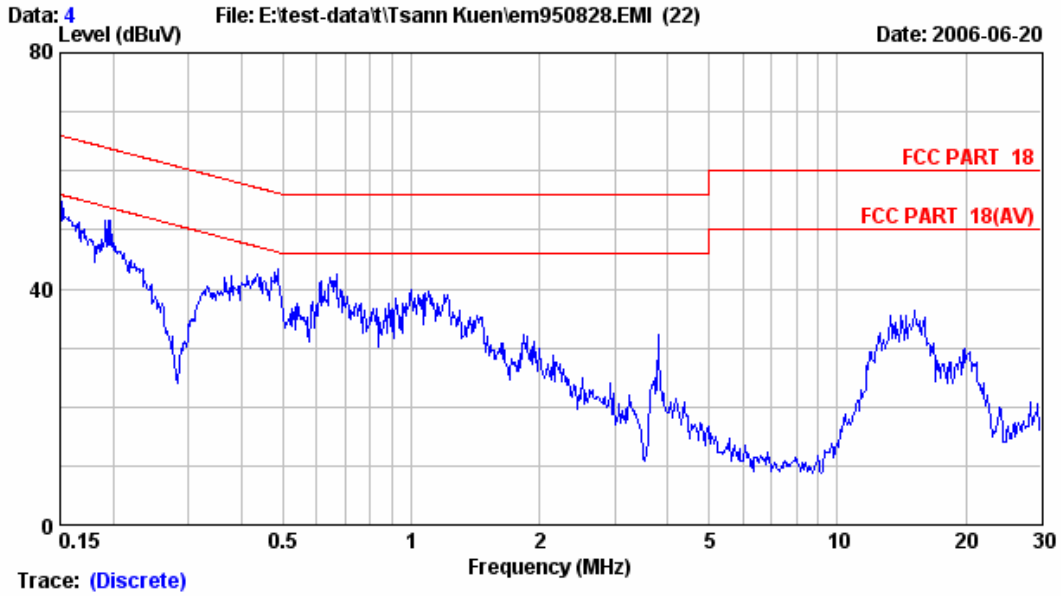
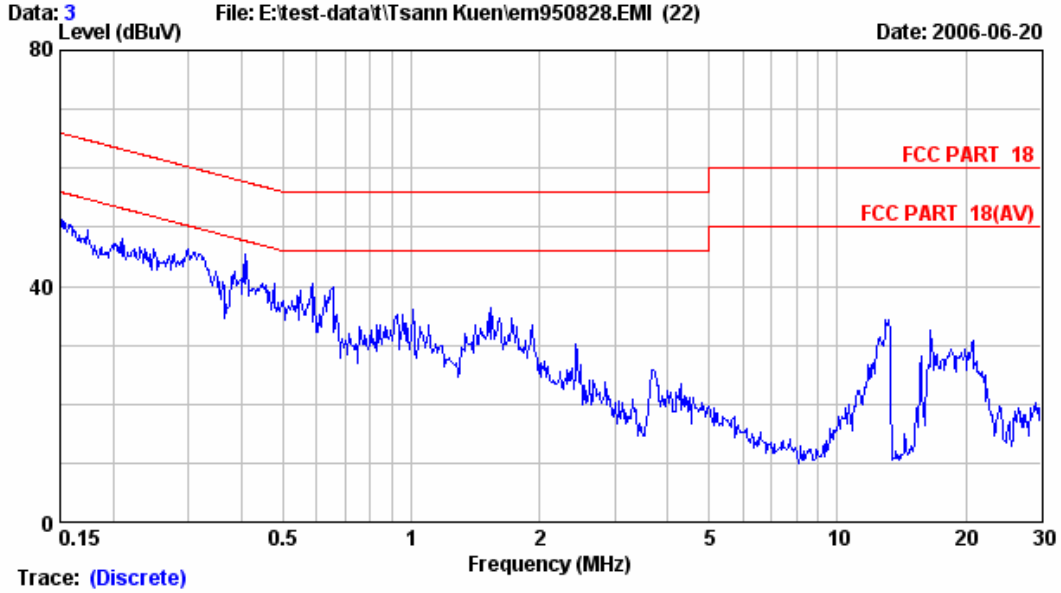


Site : No.2 Shielded room Data : 4
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1601ME
Power Rating : 120Vac/60Hz
Test Mode : POWER(MID)



Site : No.2 Shielded room Data : 3
Condition : KNW-407 Phase : LINE
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1601ME
Power Rating : 120Vac/60Hz
Test Mode : POWER(MID)

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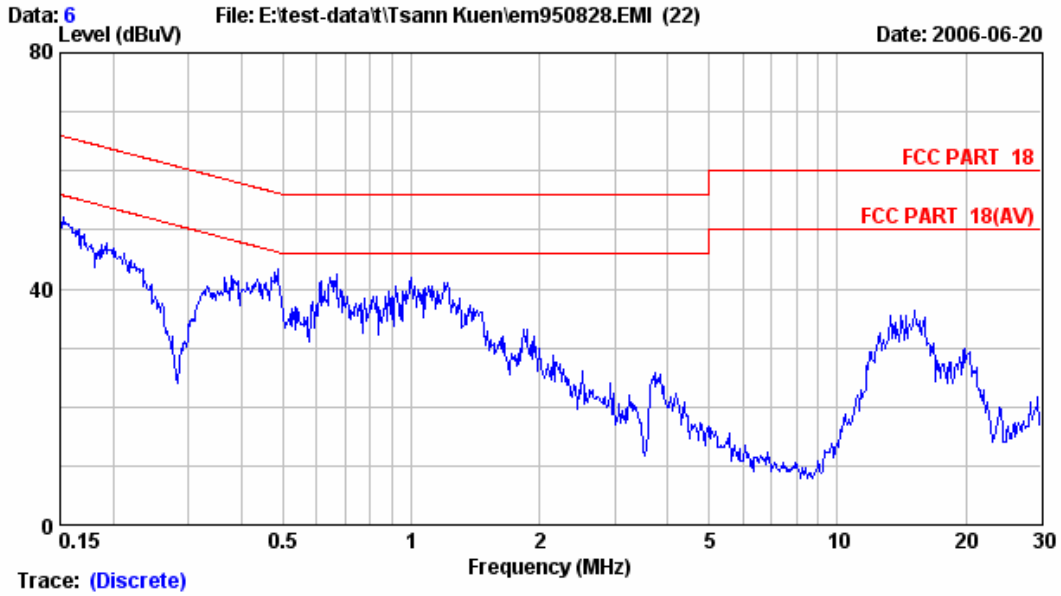
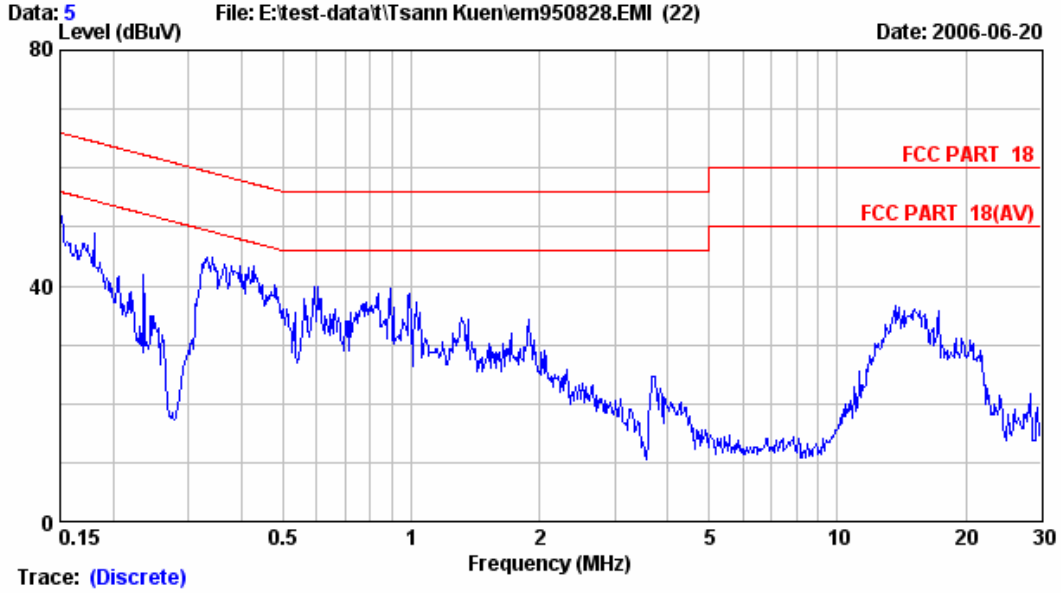



```
Site          : No.2 Shielded room          Data      : 6
Condition     : KNW-407                     Phase     : NEUTRAL
Limit         : FCC PART  18
Env. / Ins.   : 24*C,38% / ESCS 30          Engineer: Ada Huang
EUT           : Microwave Oven  M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MIN)
```




```
Site          : No.2 Shielded room          Data      : 5
Condition     : KNW-407                     Phase     : LINE
Limit         : FCC PART  18
Env. / Ins.   : 24*C,38% / ESCS 30          Engineer: Ada Huang
EUT           : Microwave Oven  M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MIN)
```

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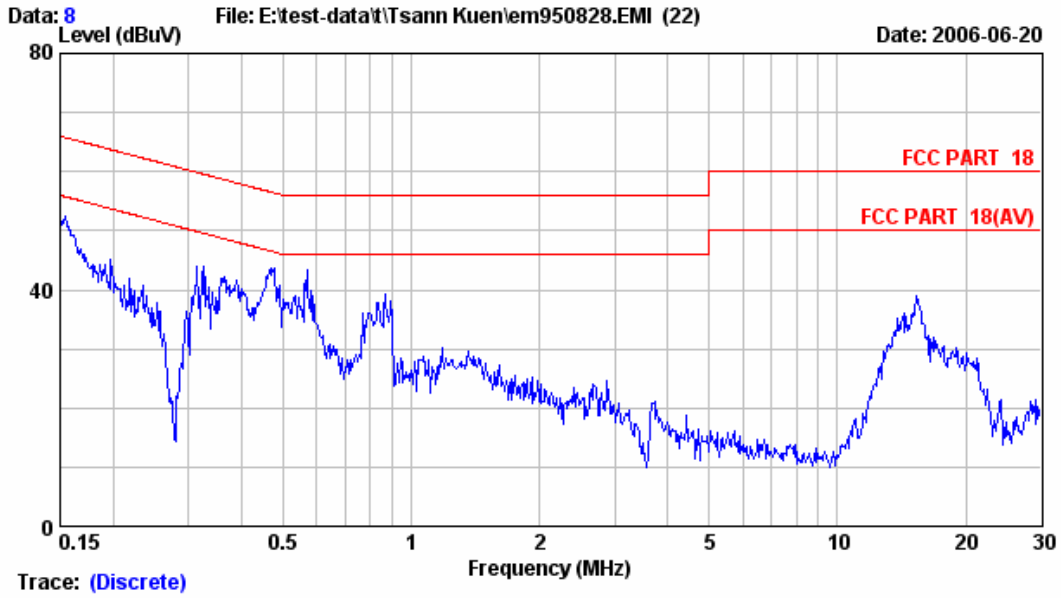
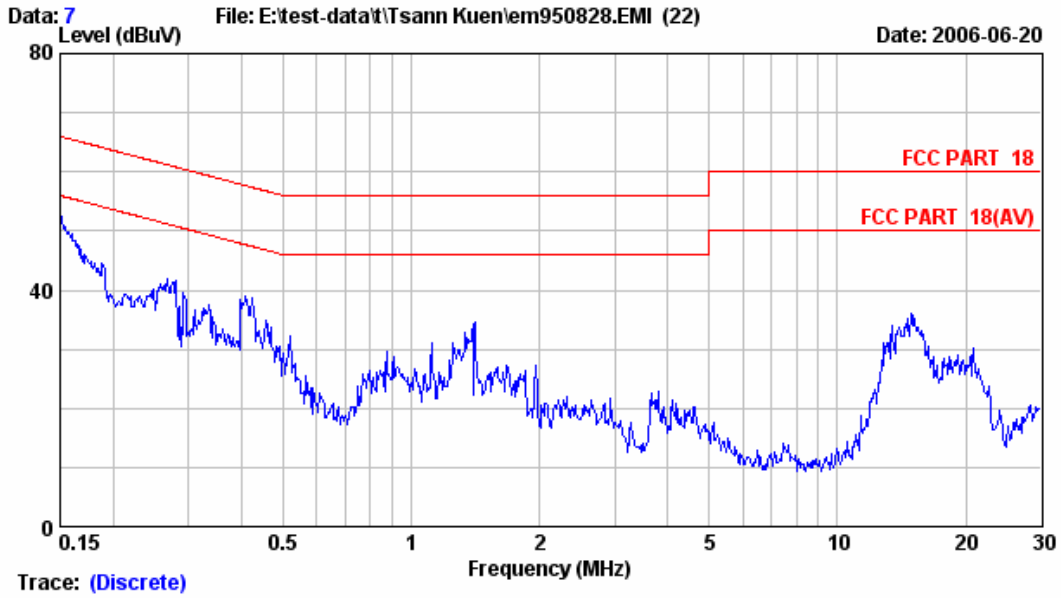


Site	: No.2 Shielded room	Data	: 8
Condition	: KNW-407	Phase	: NEUTRAL
Limit	: FCC PART 18		
Env. / Ins.	: 24*C,38% / ESCS 30	Engineer:	Ada Huang
EUT	: Microwave Oven M/N:TSK-M1601ME		
Power Rating	: 120Vac/60Hz		
Test Mode	: DEFROST		



Site	: No.2 Shielded room	Data	: 7
Condition	: KNW-407	Phase	: LINE
Limit	: FCC PART 18		
Env. / Ins.	: 24*C,38% / ESCS 30	Engineer:	Ada Huang
EUT	: Microwave Oven M/N:TSK-M1601ME		
Power Rating	: 120Vac/60Hz		
Test Mode	: DEFROST		

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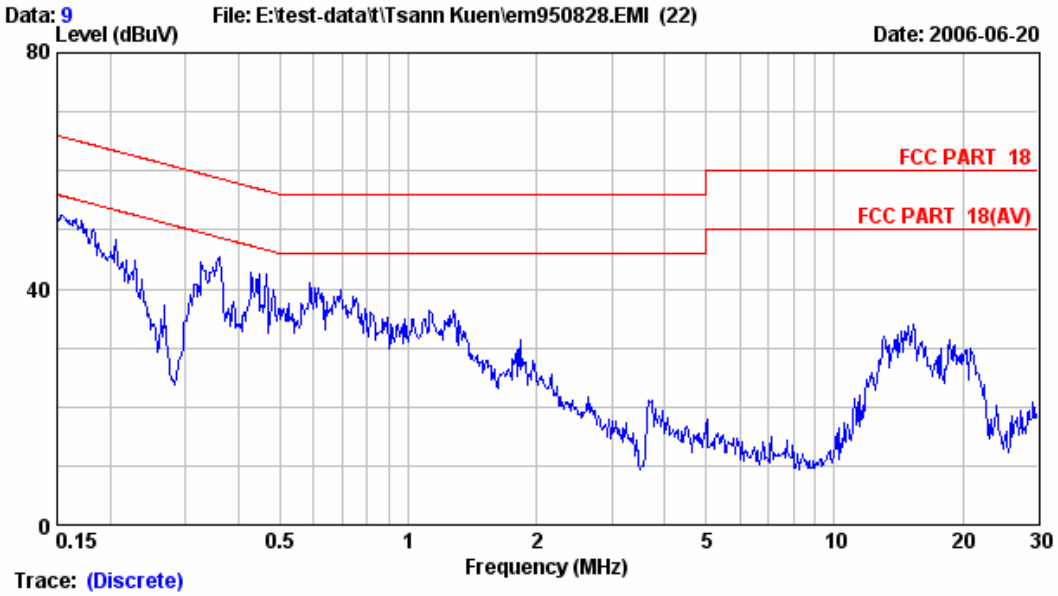
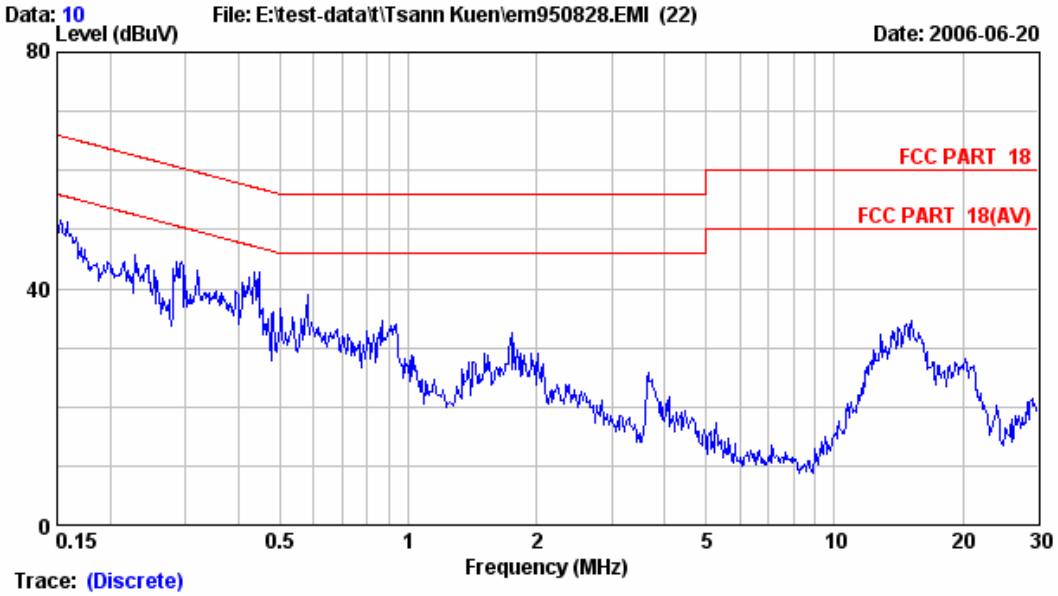


Site : No.2 Shielded room Data : 9
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1601ME
Power Rating : 120Vac/60Hz
Test Mode : BEVERAGE



Site : No.2 Shielded room Data : 10
Condition : KNW-407 Phase : LINE
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1601ME
Power Rating : 120Vac/60Hz
Test Mode : BEVERAGE

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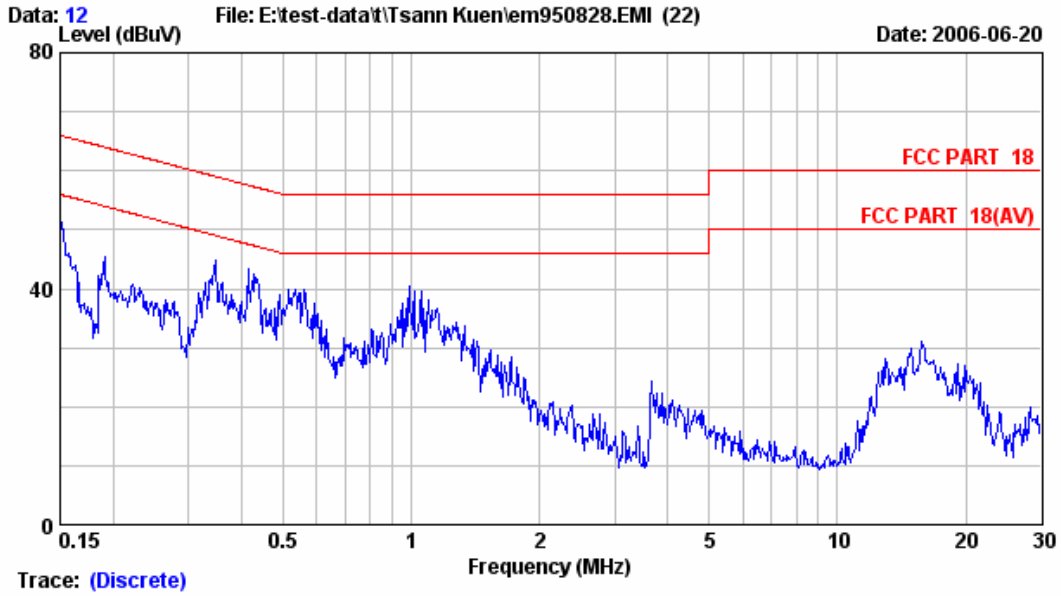
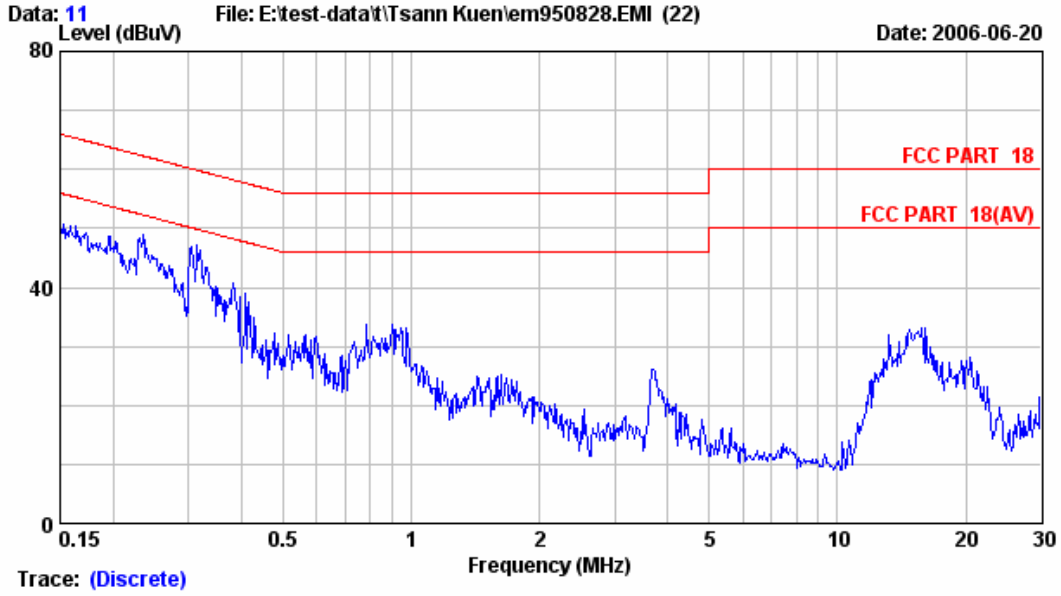


Site : No.2 Shielded room Data : 12
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1601ME
Power Rating : 120Vac/60Hz
Test Mode : PLZZA



Site : No.2 Shielded room Data : 11
Condition : KNW-407 Phase : LINE
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1601ME
Power Rating : 120Vac/60Hz
Test Mode : PLZZA

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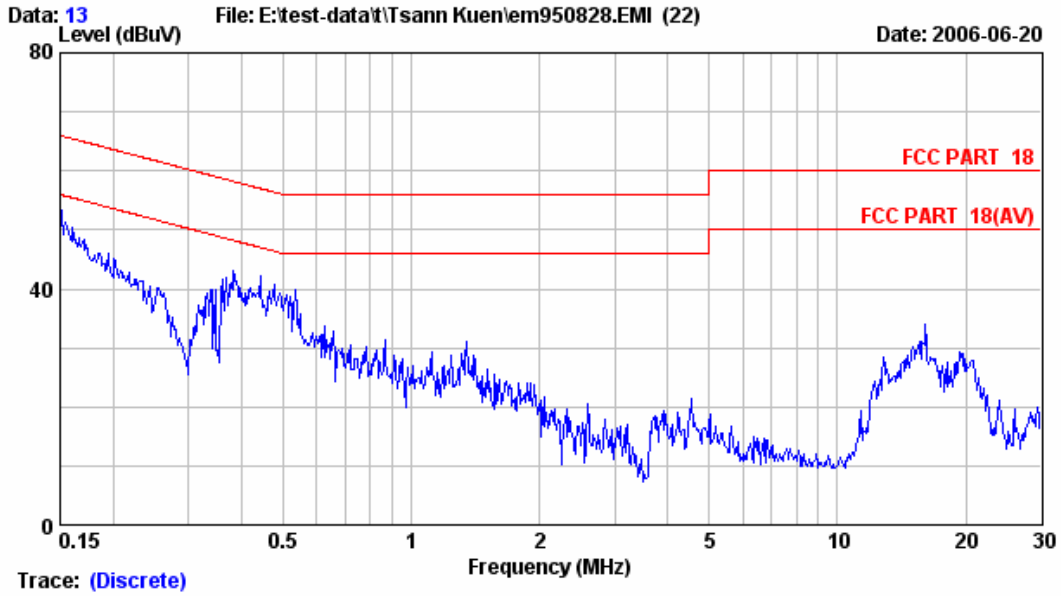
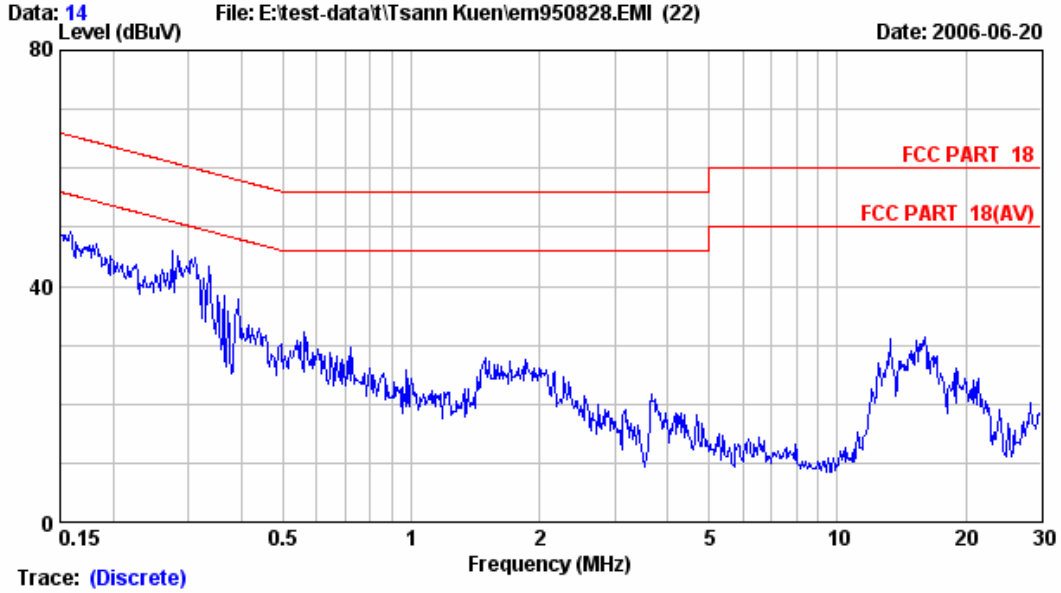



```
Site          : No.2 Shielded room          Data      : 13
Condition     : KNW-407                     Phase     : NEUTRAL
Limit         : FCC PART  18
Env. / Ins.   : 24*C,38% / ESCS 30          Engineer: Ada Huang
EUT           : Microwave Oven  M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POTATO
```




```
Site          : No.2 Shielded room          Data      : 14
Condition     : KNW-407                     Phase     : LINE
Limit         : FCC PART  18
Env. / Ins.   : 24*C,38% / ESCS 30          Engineer: Ada Huang
EUT           : Microwave Oven  M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POTATO
```

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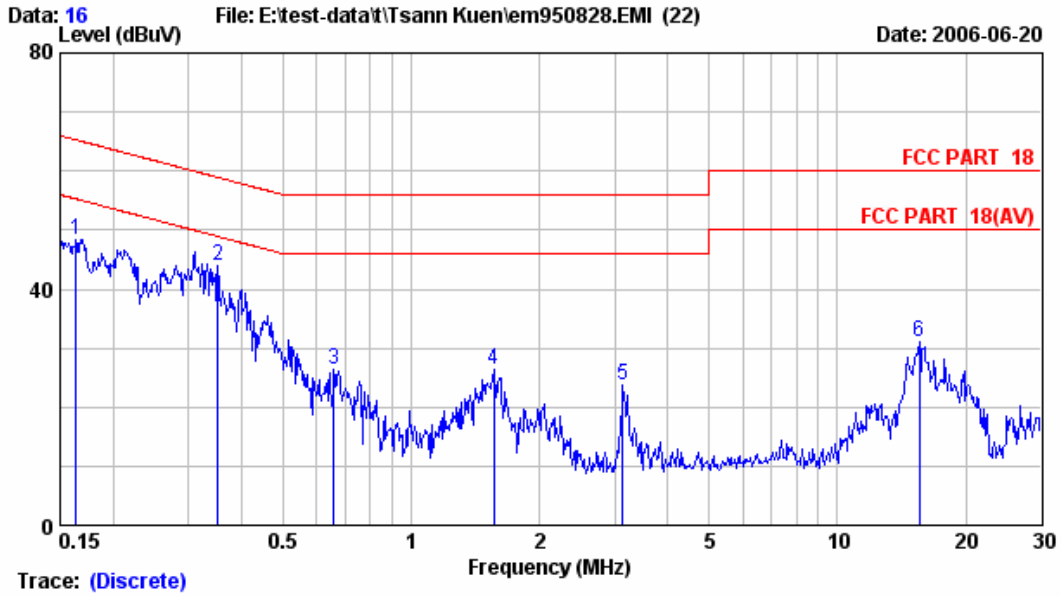

Site : No.2 Shielded room Data : 16
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1602MA
Power Rating : 120Vac/60Hz
Test Mode : HIGH

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.163	0.27	0.24	47.81	48.32	65.30	16.97	QP
2	0.352	0.12	0.31	43.64	44.07	58.91	14.85	QP
3	0.658	0.10	0.36	25.91	26.37	56.00	29.63	QP
4	1.560	0.10	0.40	25.87	26.37	56.00	29.63	QP
5	3.140	0.10	0.40	23.13	23.63	56.00	32.37	QP
6	15.552	0.21	0.70	30.14	31.05	60.00	28.95	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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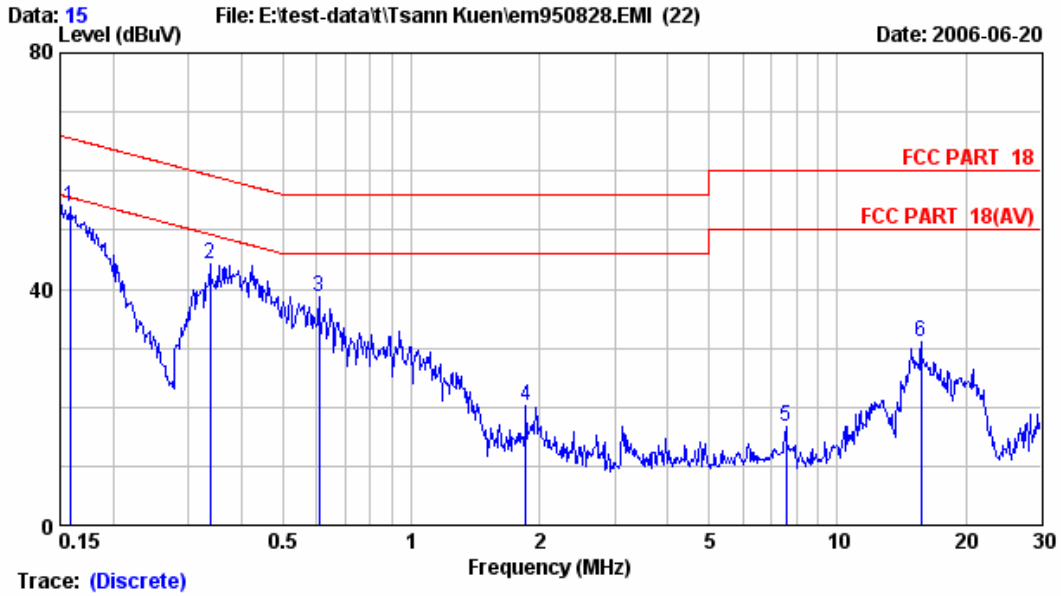

Site : No.2 Shielded room Data : 15
Condition : KNW-407 Phase : LINE
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1602MA
Power Rating : 120Vac/60Hz
Test Mode : HIGH

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.158	0.28	0.24	53.27	53.79	65.56	11.77	QP
2	0.337	0.12	0.31	43.77	44.20	59.27	15.07	QP
3	0.608	0.10	0.36	38.20	38.66	56.00	17.34	QP
4	1.858	0.10	0.40	19.66	20.16	56.00	35.84	QP
5	7.566	0.17	0.61	15.84	16.62	60.00	43.38	QP
6	15.718	0.22	0.70	30.15	31.07	60.00	28.93	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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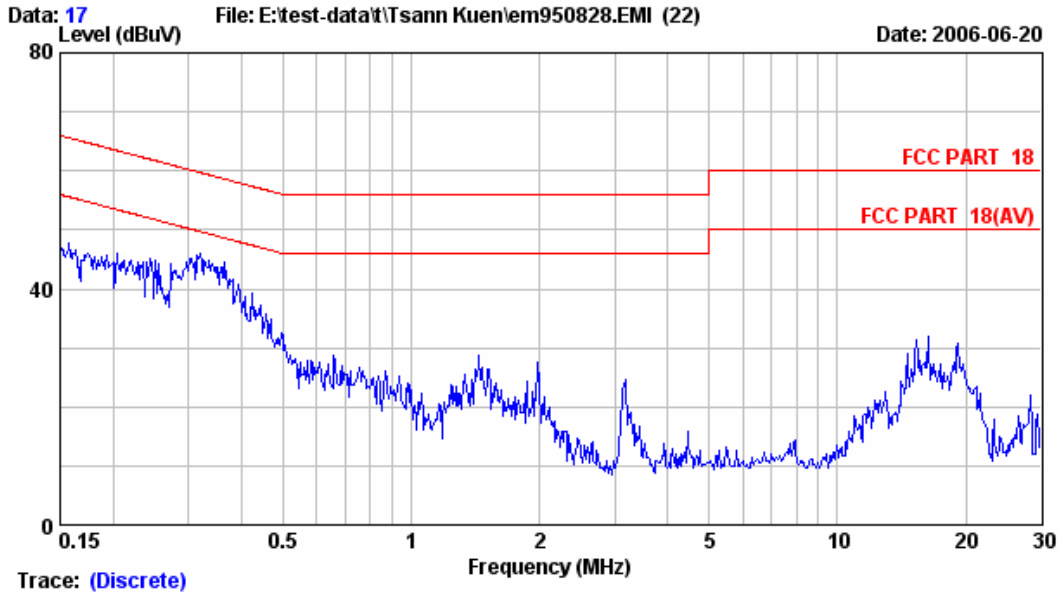
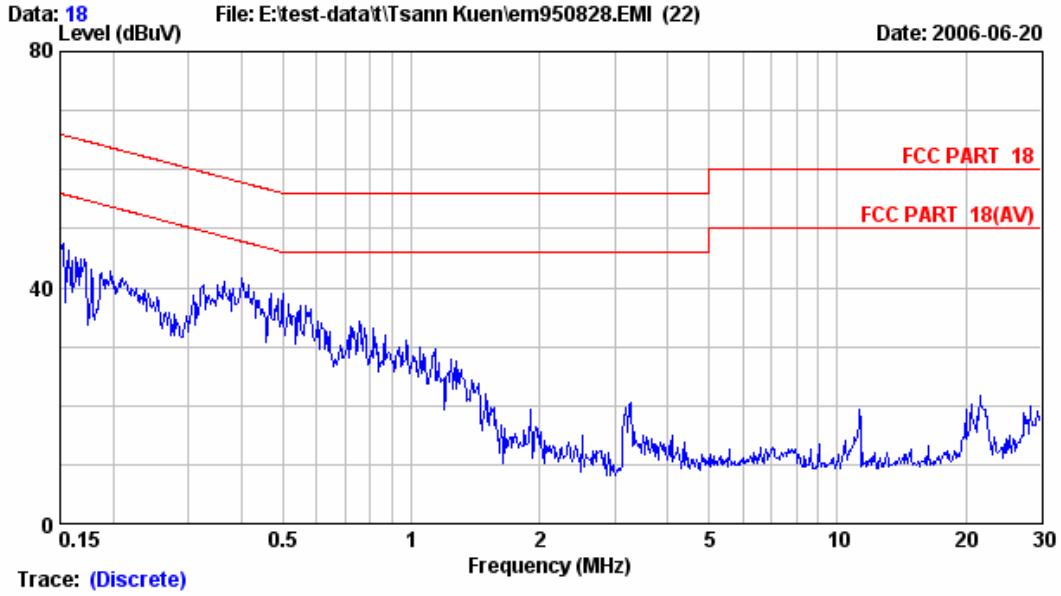



```
Site          : No.2 Shielded room          Data      : 17
Condition     : KNW-407                     Phase     : NEUTRAL
Limit         : FCC PART  18
Env. / Ins.   : 24*C,38% / ESCS 30          Engineer: Ada Huang
EUT           : Microwave Oven  M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : MEDIUM
```




```
Site          : No.2 Shielded room          Data      : 18
Condition     : KNW-407                     Phase     : LINE
Limit         : FCC PART  18
Env. / Ins.   : 24*C,38% / ESCS 30          Engineer: Ada Huang
EUT           : Microwave Oven  M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : MEDIUM
```

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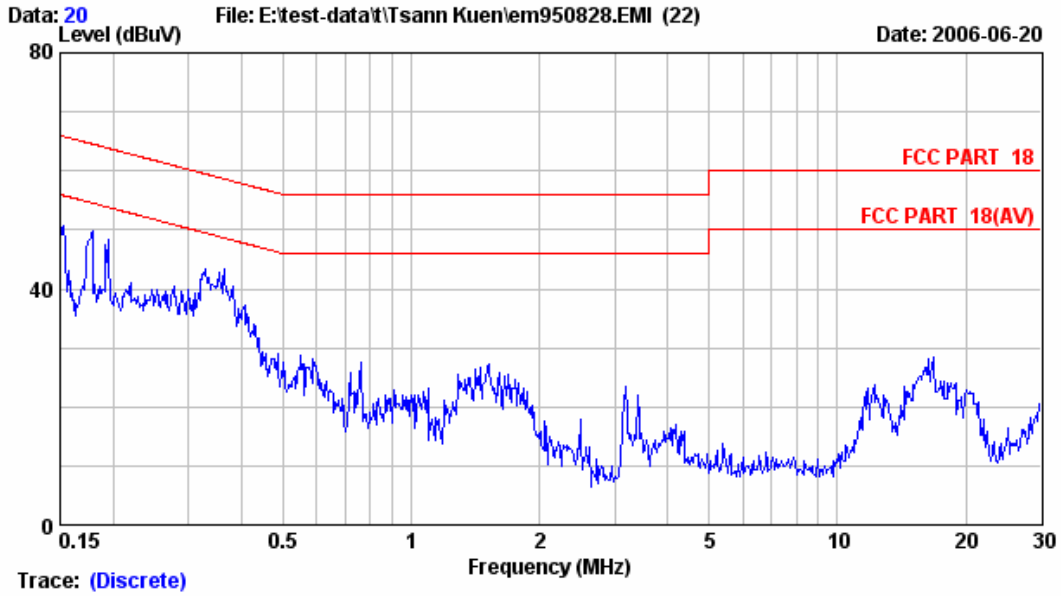
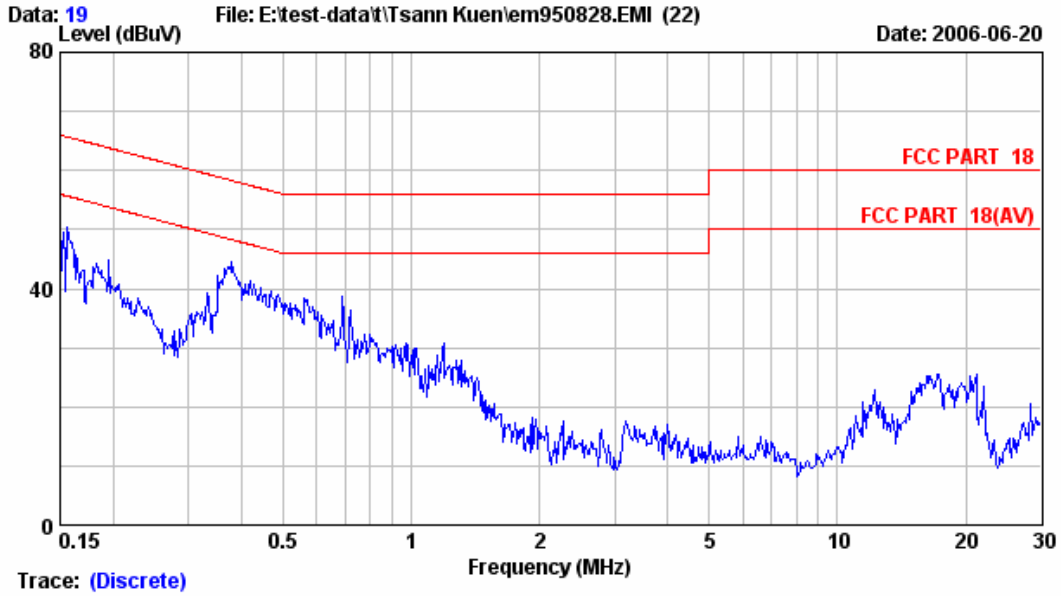



```
Site          : No.2 Shielded room          Data     : 20
Condition     : KNW-407                     Phase    : NEUTRAL
Limit         : FCC PART  18
Env. / Ins.   : 24*C,38% / ESCS 30          Engineer: Ada Huang
EUT           : Microwave Oven  M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : LOW
```




```
Site          : No.2 Shielded room          Data     : 19
Condition     : KNW-407                     Phase    : LINE
Limit         : FCC PART  18
Env. / Ins.   : 24*C,38% / ESCS 30          Engineer: Ada Huang
EUT           : Microwave Oven  M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : LOW
```

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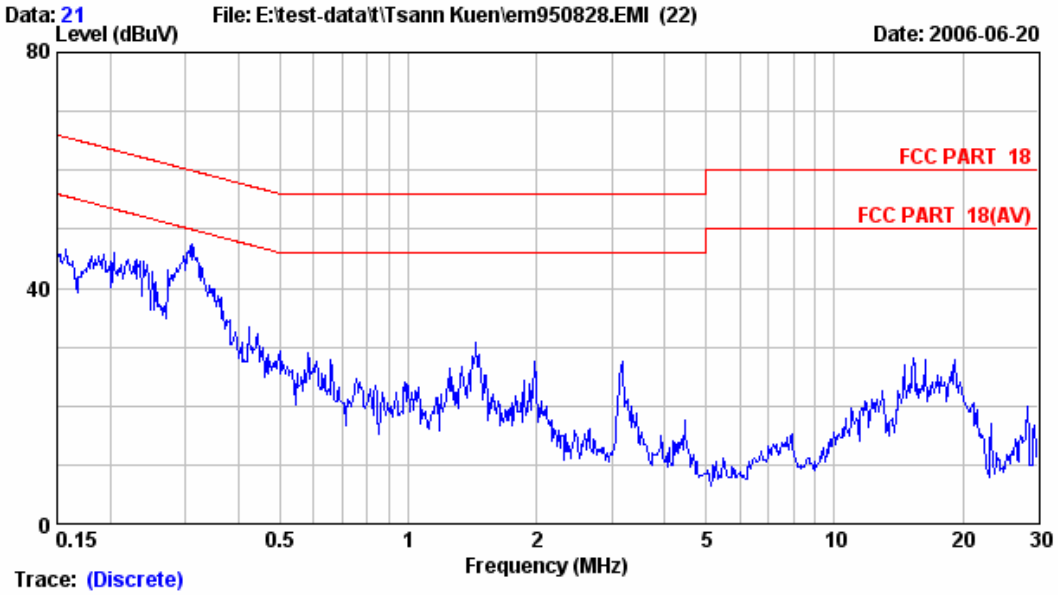
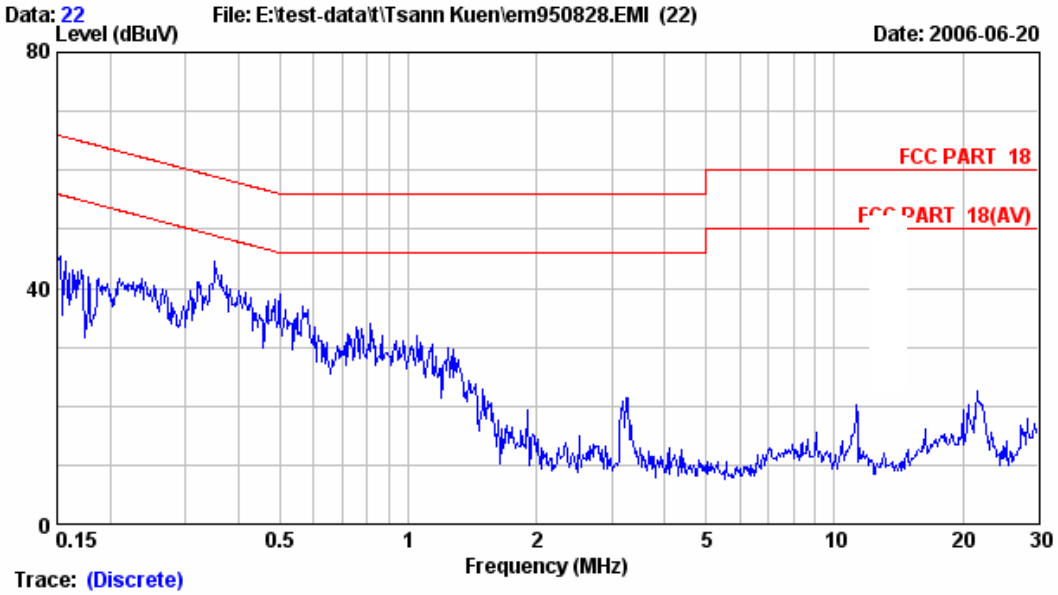


Site : No.2 Shielded room Data : 21
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1602MA
Power Rating : 120Vac/60Hz
Test Mode : WARM



Site : No.2 Shielded room Data : 22
Condition : KNW-407 Phase : LINE
Limit : FCC PART 18
Env. / Ins. : 24*C,38% / ESCS 30 Engineer: Ada Huang
EUT : Microwave Oven M/N:TSK-M1602MA
Power Rating : 120Vac/60Hz
Test Mode : WARM

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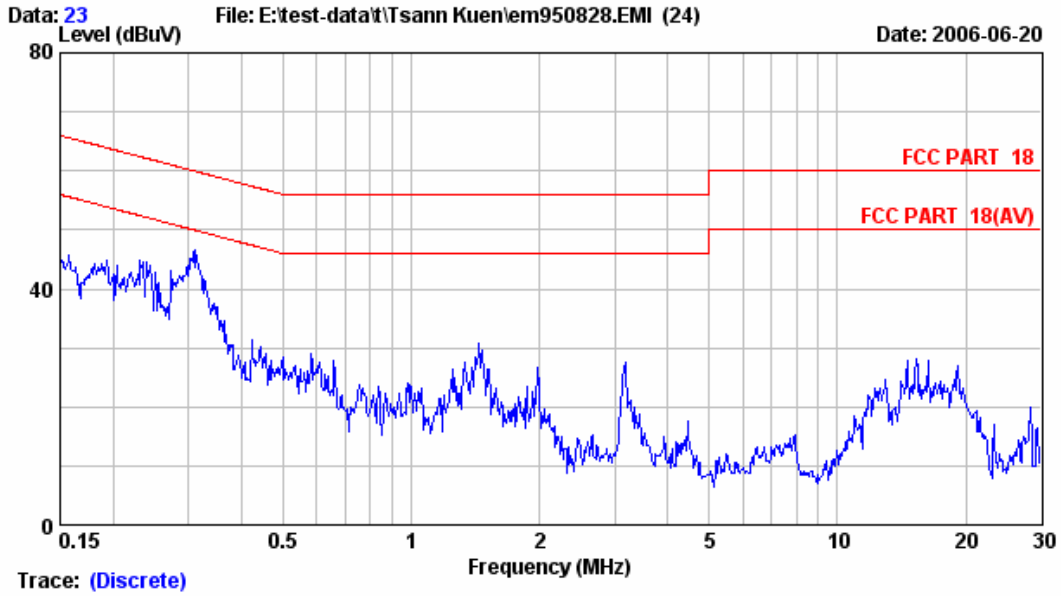
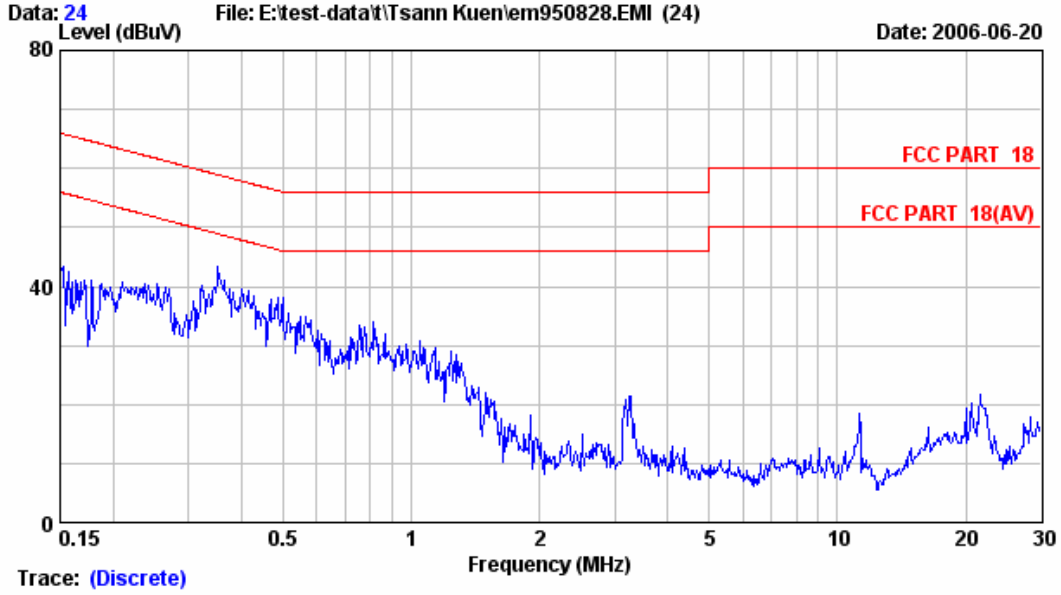



```
Site          : No.2 Shielded room          Data      : 23
Condition     : KNW-407                     Phase     : NEUTRAL
Limit         : FCC PART  18
Env. / Ins.   : 24*C,38% / ESCS 30          Engineer: Ada Huang
EUT           : Microwave Oven  M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : DEFROST
```




```
Site          : No.2 Shielded room          Data      : 24
Condition     : KNW-407                     Phase     : LINE
Limit         : FCC PART  18
Env. / Ins.   : 24*C,38% / ESCS 30          Engineer: Ada Huang
EUT           : Microwave Oven  M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : DEFROST
```

7. RADIATED EMISSION MEASUREMENT

7.1. Test Equipment

The following test equipment was used during the radiated emission tests：

7.1.1. Below 1GHz (at Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05’	Sep. 25, 06’
2.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 09, 06’	Mar. 08, 07’
3.	Biconical Antenna	CHASE	VBA6106A	1264	Nov. 11, 05’	Nov. 10, 06’
4.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0139	Nov. 19, 05‘	Nov. 19, 06‘

7.1.2. Above 1GHz (at Semi-Anechoic Chamber)

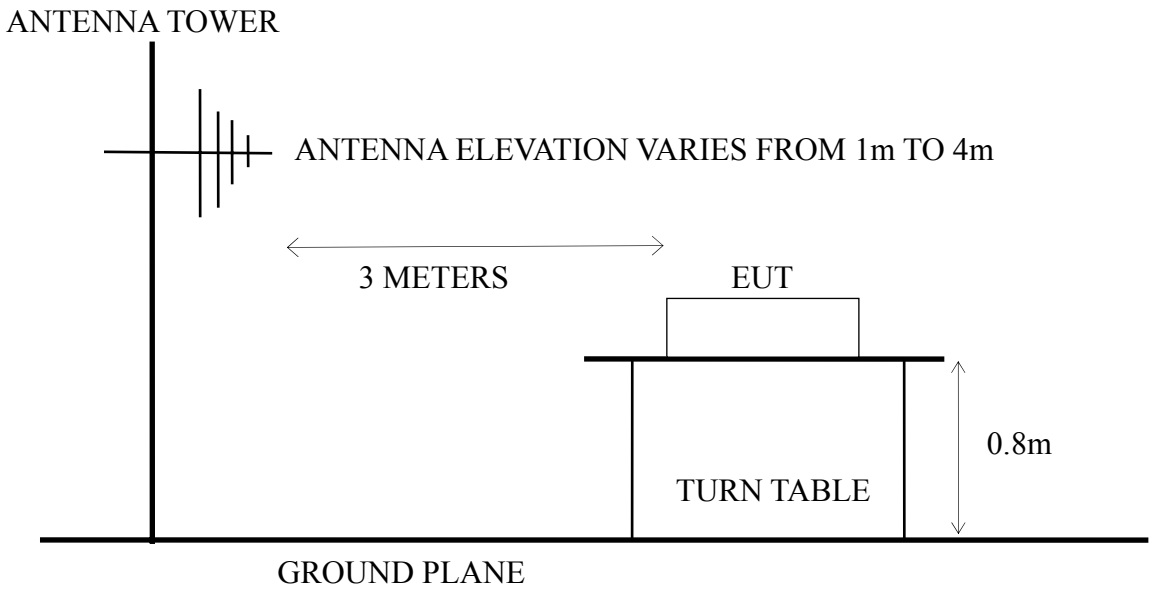
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05’	Sep. 25, 06’
2.	Pre-Amplifier	HP	8449B	3008A01284	Jul. 05, 05’	Jul. 04, 06’
3.	Horn Antenna	EMCO	3115	9112-3775	Jun. 01, 06’	May 31, 07’
4.	For Above 3.5GHz -High Pass Filter	HP	84300-80038	005	Jan. 13, 06’	Jan. 12, 07’

7.2. Test Setup

7.2.1. Block Diagram of connection between EUT and simulators

MICROWAVE OVEN (EUT)

7.2.2. Semi-Anechoic Chamber (3m) Setup Diagram



7.3. Radiation Limits

The radiated limits are complied with FCC CFR Title 47 Part 18 Subpart C & MP-5. The limits are calculated as below:

EUT：Microwave Oven M/N：TSK-M1601ME

Calculated formula:
Limit (E_{300m}) = 25 * (Power / 500) $^{1/2}$ (μV/m)
$E_{3m} = E_{300m} / K$
Power Output = 455W
Limit (E_{300m}) = 25 * (455 / 500) $^{1/2}$ (μV/m) = 23.84848 (μV/m)
E_{3m} = 23.84848 / 6.2335*10^{-3} = 3828.81180 (μV/m)
20log(3825.81180) = 71.65 (dBμV/m)≒71.60 (dBμV/m)

EUT：Microwave Oven M/N：TSK-M1602MA

Calculated formula:
Limit (E_{300m}) = 25 * (Power / 500) $^{1/2}$ (μV/m)
$E_{3m} = E_{300m} / K$
Power Output = 490W
Limit (E_{300m}) = 25 * (490 / 500) $^{1/2}$ (μV/m) = 24.74873 (μV/m)
E_{3m} = 24.74873 / 6.16563*10^{-3} = 4013.9774 (μV/m)
20log(4113.9774) = 72.07 (dBμV/m)≒72.0 (dBμV/m)

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown on 7.2.

7.4.2. Turned on the power of all equipment.

7.4.3. The beaker with two loads (700ml & 300ml) and two locations (center & right front corner) was placed into the Microwave Oven (EUT).

7.4.4. The Microwave Oven (EUT) was set in test modes, and all the test modes are listed in section 7.6.

7.5. Test Procedure

The EUT was placed on a turn table which was 0.8 meter or 1 meter (0.8 meter for measurement below 1GHz and 1 meter for measurement above 1GHz) above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set to3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 to 4 meters above reference plane to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna was used as a receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC/OST MP-5 (1986) regulation.

The resolution bandwidth of spectrum analyzer using Peak detector was set at 120kHz for measurement below 1GHz and resolution bandwidth of spectrum analyzer using Average detector was set at 1MHz for measurement above 1GHz.

Load for measurement on second and third harmonics: Two loads one of 700 and the other of 300 ml, of water are used. Each load is tested both with the beaker located in the center of the microwave oven and with it in the right front corner.

Load for all other measurement: 700ml of water, with the beaker located in the center of the microwave oven.

The frequency range from 30MHz to 1000MHz was pre-scanned with Peak detector and all the final readings of measurement were with Quasi-Peak detector at simple anechoic chamber.
The frequency range above 1GHz was pre-scanned with Average detector all the final readings of measurement were with Average detector at simple anechoic chamber.

7.6. Radiated Emission Measurement Results

PASSED. All emissions not reported below are too low against the prescribed limits.

Two kinds of test models with the following test modes were measured at Semi-Anechoic Chamber and all the test results are listed in next pages.

EUT：Microwave Oven M/N： TSK-M1601ME

Test Date：Jun. 21 ~ 22, 2006 Temperature：26℃ Humidity：49%

The details of test mode and reference test data are as follows：

No.	Frequency range	Test Mode	Reference Test Data No.	
			Horizontal	Vertical
1.	Below 1GHz (30MHz-1GHz)	Load: 700ml, Beaker Location: Center Power (Max.)	# 15	# 14
2.		Load: 700ml, Beaker Location: Center Power (Mid.)	# 16	# 17
3.		Load: 700ml, Beaker Location: Center Power (Min.)	# 19	# 18
4.		Load: 700ml, Beaker Location: Center (Defrost)	# 20	# 21
5.		Load: 700ml, Beaker Location: Center (Beverage)	# 23	# 22
6.		Load: 700ml, Beaker Location: Center (Plzza)	# 24	# 25
7.		Load: 700ml, Beaker Location: Center (Potato)	# 27	# 28
8.	Above 1GHz	Load: 700ml, Beaker Location: Center Power (Max.)	# 7	# 6
9.	Above 1GHz. (At second and third harmonics)	Load: 700ml, Beaker Location: Right Front Corner Power (Max.)	# 8	# 9
10.		Load: 300ml, Beaker Location: Center Power (Max.)	# 12	# 13
11.		Load: 300ml, Beaker Location: Right Front Corner Power (Max.)	# 11	# 10

EUT：Microwave Oven M/N： TSK-M1602MA

Test Date：Jun. 23, 2006 Temperature：26℃ Humidity：45%

The details of test mode and reference test data are as follows：

No.	Frequency range	Test Mode	Reference Test Data No.	
			Horizontal	Vertical
12.	Below 1GHz (30MHz-1GHz)	Load: 700ml, Beaker Location: Center Power (High)	# 23	# 24
13.		Load: 700ml, Beaker Location: Center Power (Mid.)	# 20	# 21
14.		Load: 700ml, Beaker Location: Center Power (Low)	# 18	# 19
15.		Load: 700ml, Beaker Location: Center (Warm)	# 15	# 14
16.		Load: 700ml, Beaker Location: Center (Defrost)	# 16	# 17
17.	Above 1GHz	Load: 700ml, Beaker Location: Center Power (High)	# 7	# 6
18.	Above 1GHz. (At second and third harmonics)	Load: 700ml, Beaker Location: Right Front Corner Power (High)	# 8	# 9
19.		Load: 300ml, Beaker Location: Center Power (High)	# 12	# 13
20.		Load: 300ml, Beaker Location: Right Front Corner Power (High)	# 11	# 10

7.6.1. Radiated Emission Measurement Results of TSK-M1601ME

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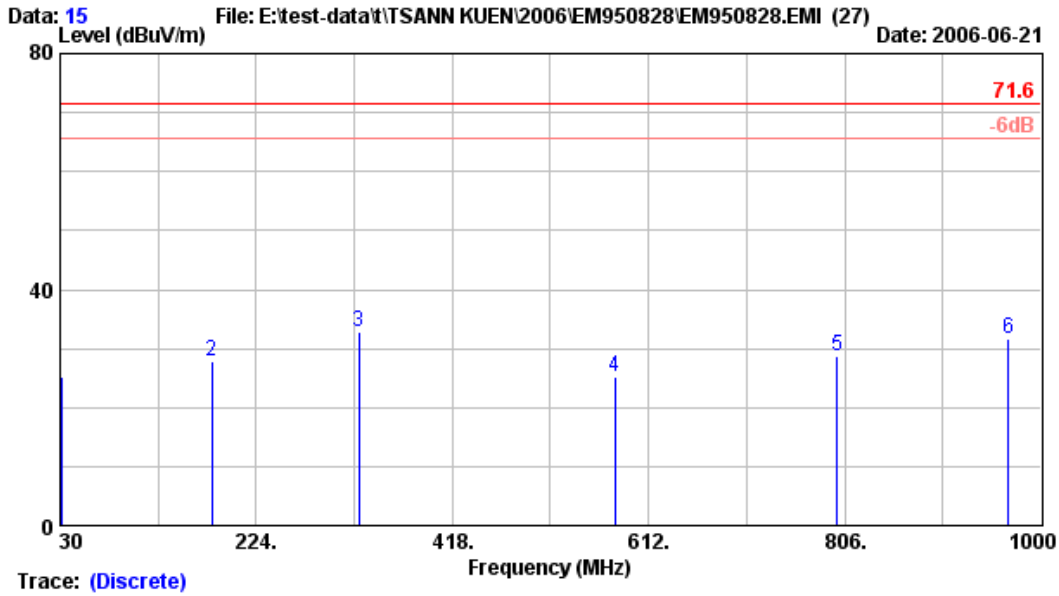


```
Site no.      : A/C Chamber                  Data no.   : 15
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : HORIZONTAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	-0.70	25.21	71.60	46.39	QP
2	180.350	21.31	2.90	3.72	27.93	71.60	43.67	QP
3	325.850	15.15	4.20	13.54	32.89	71.60	38.71	QP
4	579.020	20.96	6.40	-2.21	25.15	71.60	46.45	QP
5	798.240	24.09	6.90	-2.26	28.73	71.60	42.87	QP
6	967.990	26.90	7.69	-2.83	31.76	71.60	39.84	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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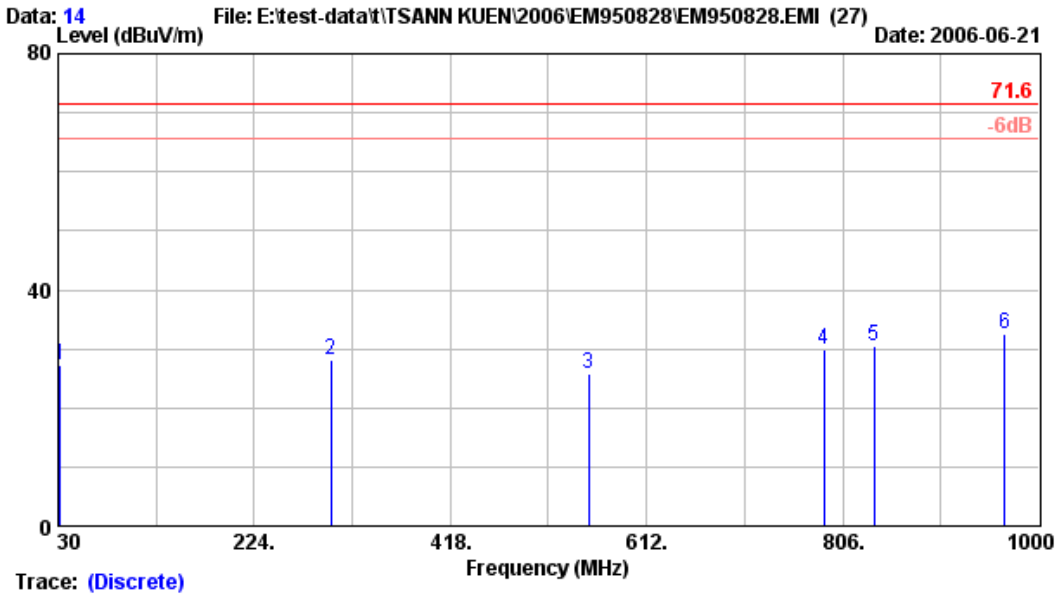


```
Site no.      : A/C Chamber                  Data no.   : 14
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	31.940	22.57	1.10	3.66	27.33	71.60	44.27	QP
2	299.660	26.86	3.90	-2.54	28.22	71.60	43.38	QP
3	554.770	21.90	6.80	-2.83	25.88	71.60	45.72	QP
4	787.570	25.44	6.90	-2.53	29.82	71.60	41.78	QP
5	837.040	26.47	7.10	-3.10	30.47	71.60	41.13	QP
6	966.050	27.07	7.70	-2.18	32.59	71.60	39.01	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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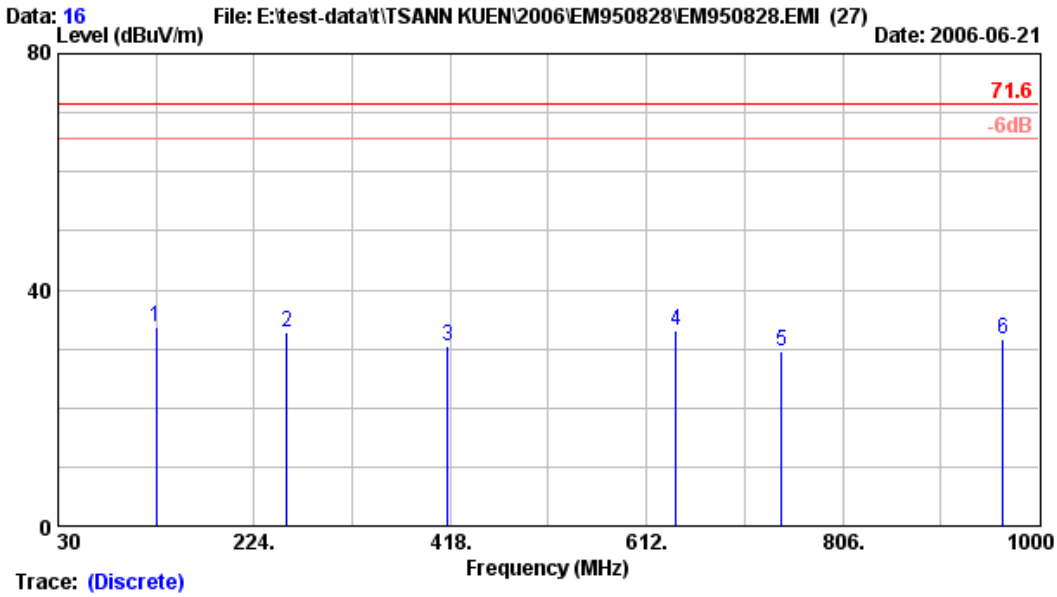


```
Site no.      : A/C Chamber                  Data no.   : 16
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : HORIZONTAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MID)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	127.000	19.56	2.40	11.87	33.83	71.60	37.77	QP
2	256.010	24.28	3.50	4.93	32.71	71.60	38.89	QP
3	415.300	16.99	5.10	8.28	30.37	71.60	41.23	QP
4	641.100	21.00	6.30	5.68	32.97	71.60	38.63	QP
5	745.860	22.91	6.65	0.11	29.67	71.60	41.93	QP
6	964.110	26.80	7.60	-2.76	31.64	71.60	39.96	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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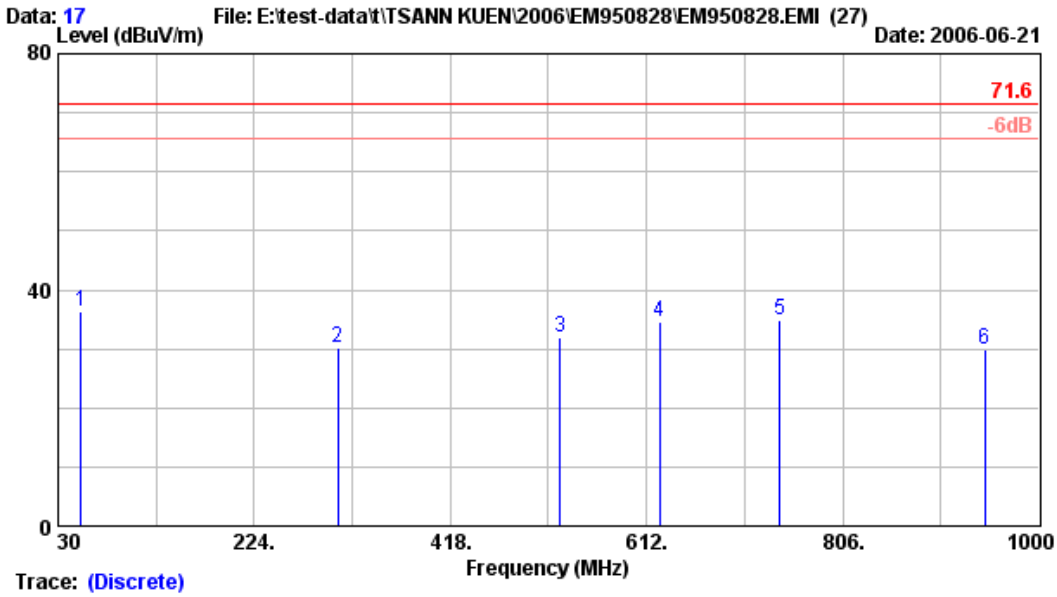


```
Site no.      : A/C Chamber                  Data no.   : 17
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MID)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	52.310	15.42	1.50	19.29	36.21	71.60	35.39	QP
2	306.450	15.26	3.90	11.04	30.20	71.60	41.40	QP
3	526.640	20.26	6.90	4.85	32.01	71.60	39.59	QP
4	624.610	21.15	6.20	7.14	34.49	71.60	37.11	QP
5	743.920	23.92	6.70	4.20	34.82	71.60	36.78	QP
6	946.650	27.03	7.50	-4.59	29.94	71.60	41.66	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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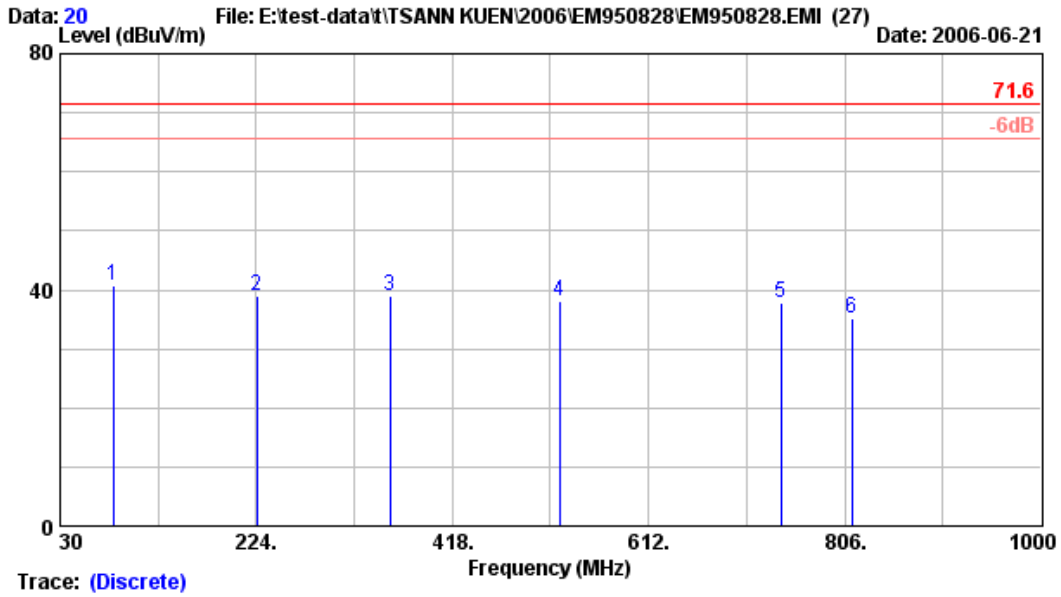


```
Site no.      : A/C Chamber                  Data no.   : 20
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : HORIZONTAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : DEFROST
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	82.380	14.19	1.90	24.72	40.81	71.60	30.79	QP
2	224.970	21.95	3.30	13.85	39.10	71.60	32.50	QP
3	356.700	15.75	4.40	18.78	38.93	71.60	32.67	QP
4	523.730	19.76	6.90	11.35	38.01	71.60	33.59	QP
5	742.950	22.56	6.70	8.66	37.92	71.60	33.68	QP
6	812.790	24.02	7.00	4.21	35.23	71.60	36.37	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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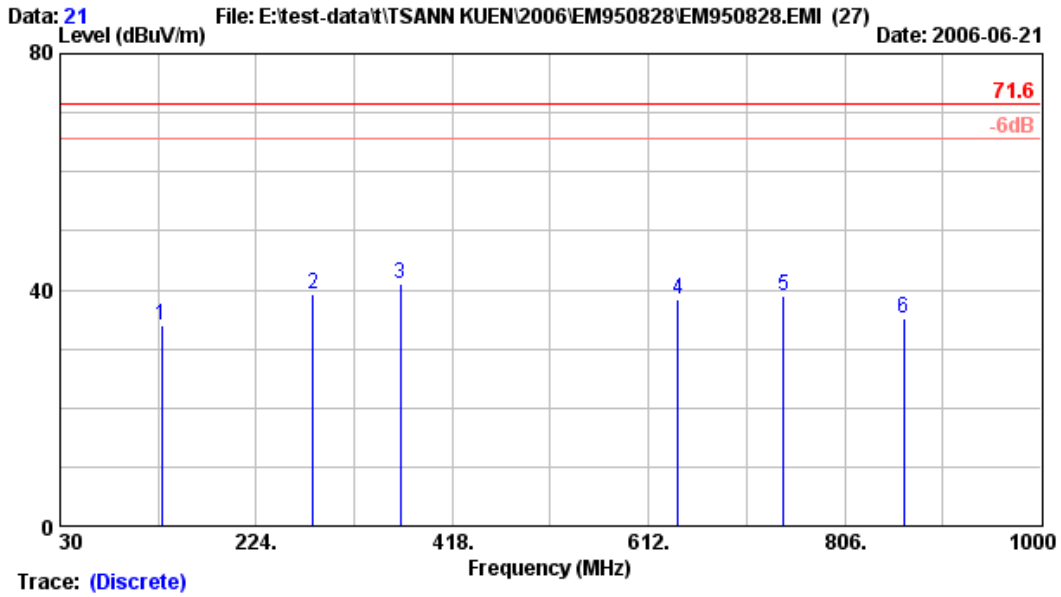


```
Site no.      : A/C Chamber                  Data no.   : 21
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : DEFROST
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	130.880	18.82	2.40	12.64	33.85	71.60	37.75	QP
2	280.260	26.26	3.80	9.30	39.37	71.60	32.23	QP
3	366.800	15.81	4.42	20.70	40.93	71.60	30.67	QP
4	641.100	21.28	6.30	10.71	38.28	71.60	33.32	QP
5	745.860	24.09	6.65	8.22	38.96	71.60	32.64	QP
6	864.800	25.38	7.20	2.71	35.29	71.60	36.31	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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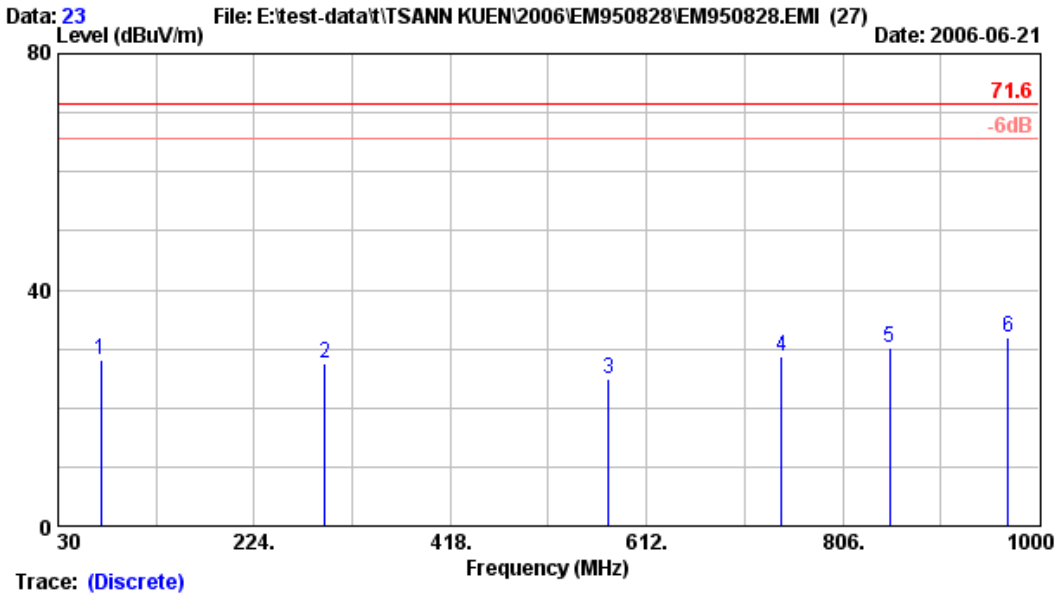


```
Site no.      : A/C Chamber                  Data no.   : 23
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : HORIZONTAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : BEVERAGE
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	72.680	12.42	1.80	13.87	28.09	71.60	43.51	QP
2	293.840	26.33	3.96	-2.60	27.69	71.60	43.91	QP
3	574.170	21.10	6.44	-2.77	24.77	71.60	46.83	QP
4	745.860	22.91	6.65	-0.81	28.75	71.60	42.85	QP
5	852.560	25.70	7.10	-2.59	30.21	71.60	41.39	QP
6	969.930	26.83	7.69	-2.46	32.07	71.60	39.53	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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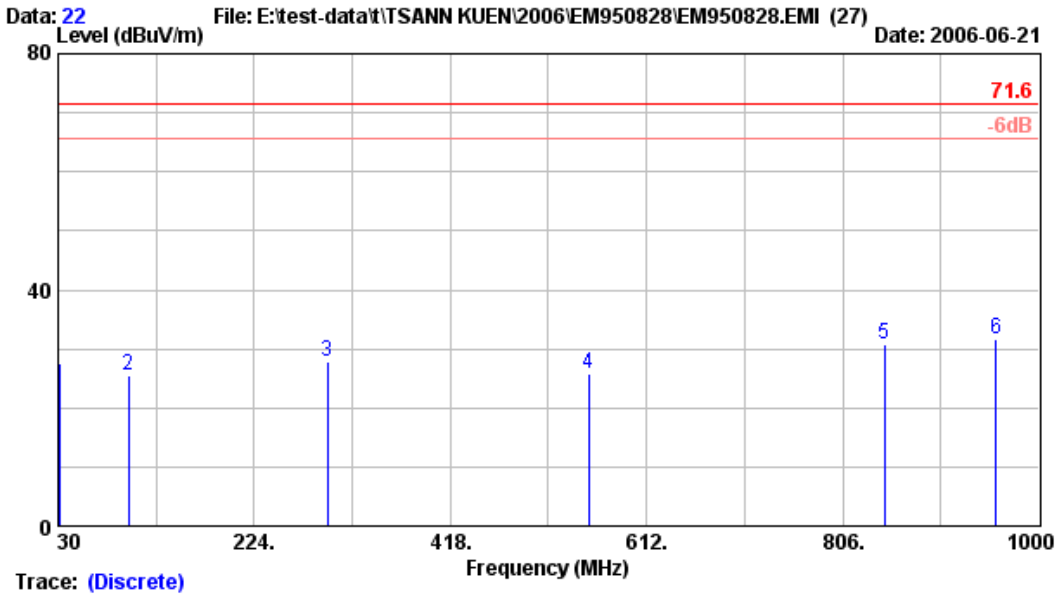


```
Site no.      : A/C Chamber                  Data no.   : 22
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : BEVERAGE
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	23.39	1.10	3.12	27.62	71.60	43.98	QP
2	99.840	17.62	2.10	5.83	25.55	71.60	46.05	QP
3	296.750	26.54	4.00	-2.71	27.82	71.60	43.78	QP
4	554.770	21.90	6.80	-3.02	25.69	71.60	45.91	QP
5	847.710	26.61	7.10	-2.82	30.89	71.60	40.71	QP
6	957.320	27.16	7.60	-3.11	31.64	71.60	39.96	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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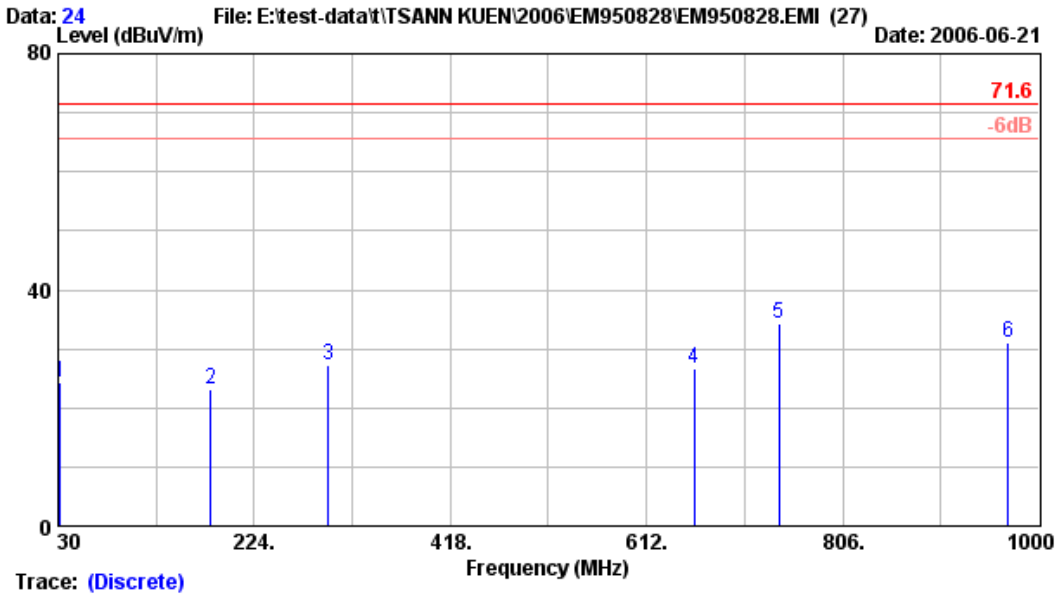

Site no. : A/C Chamber Data no. : 24
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : 71.6
Env. / Ins. : 8593EM 26*C/49% Engineer : Cater Chou
EUT : Microwave Oven M/N:TSK-M1601ME
Power Rating : 120Vac/60Hz
Test Mode : PIZZA

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	31.940	24.26	1.10	-1.03	24.33	71.60	47.27	QP
2	181.320	21.32	2.90	-0.92	23.30	71.60	48.30	QP
3	297.720	26.68	3.98	-3.43	27.23	71.60	44.37	QP
4	659.530	22.30	6.40	-2.17	26.53	71.60	45.07	QP
5	742.950	22.56	6.70	5.02	34.28	71.60	37.32	QP
6	969.930	26.83	7.69	-3.44	31.09	71.60	40.51	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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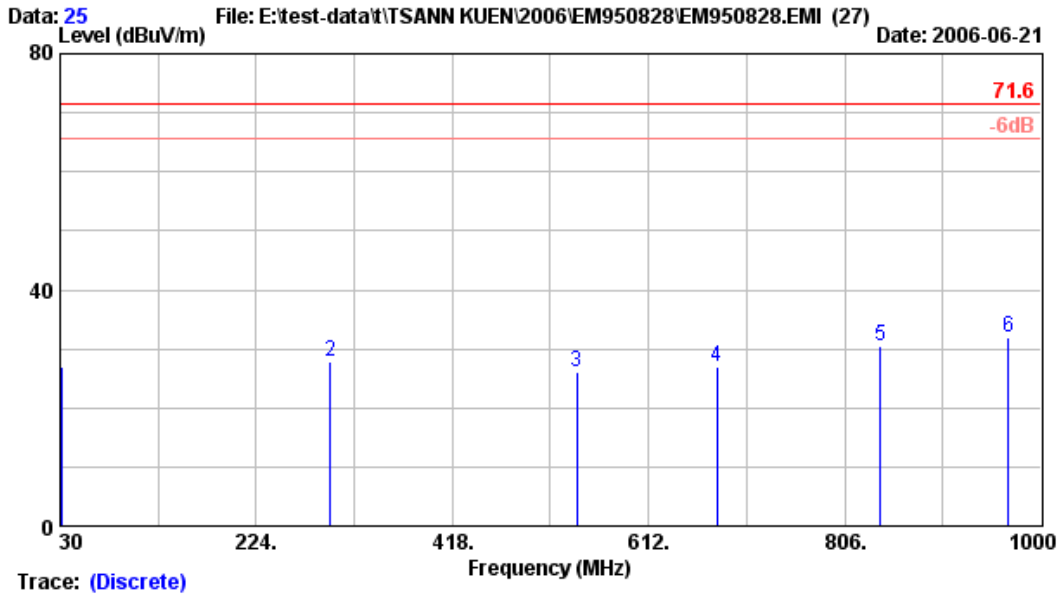


```
Site no.      : A/C Chamber                  Data no.   : 25
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : PIZZA
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	23.39	1.10	2.39	26.89	71.60	44.71	QP
2	297.720	26.69	3.98	-2.79	27.87	71.60	43.73	QP
3	541.190	20.48	7.01	-1.29	26.20	71.60	45.40	QP
4	679.900	23.52	6.40	-2.97	26.94	71.60	44.66	QP
5	840.920	26.62	7.10	-3.27	30.45	71.60	41.15	QP
6	967.990	26.97	7.69	-2.74	31.92	71.60	39.68	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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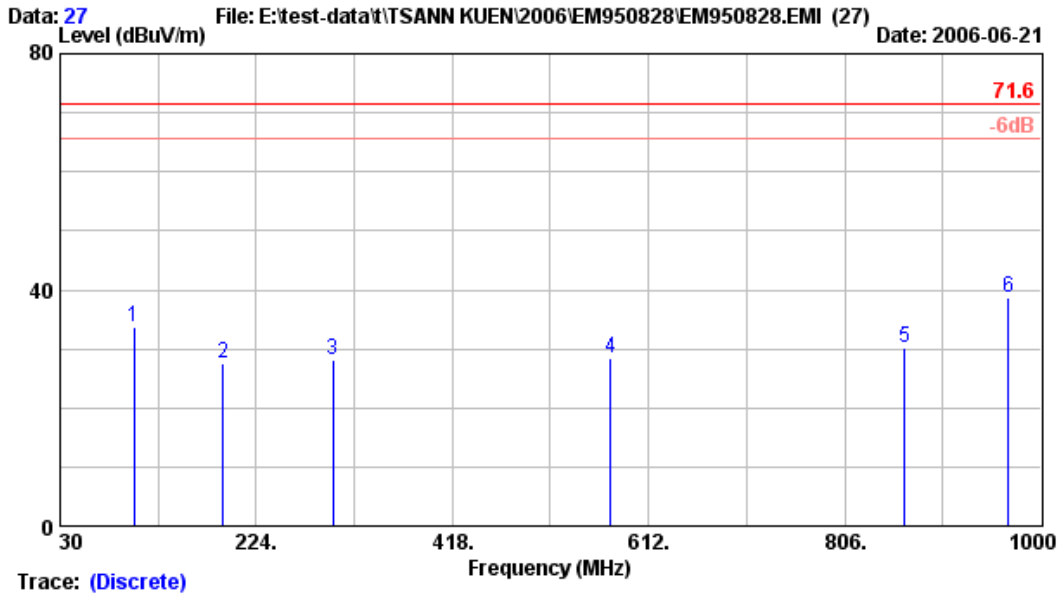


```
Site no.      : A/C Chamber                  Data no.   : 27
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : HORIZONTAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POTATO
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	102.750	17.40	2.10	14.21	33.71	71.60	37.89	QP
2	191.020	21.55	3.00	2.98	27.53	71.60	44.07	QP
3	299.660	26.77	3.90	-2.47	28.20	71.60	43.40	QP
4	574.170	21.10	6.44	0.83	28.37	71.60	43.23	QP
5	865.170	26.00	7.20	-3.08	30.12	71.60	41.48	QP
6	967.990	26.90	7.69	3.97	38.56	71.60	33.04	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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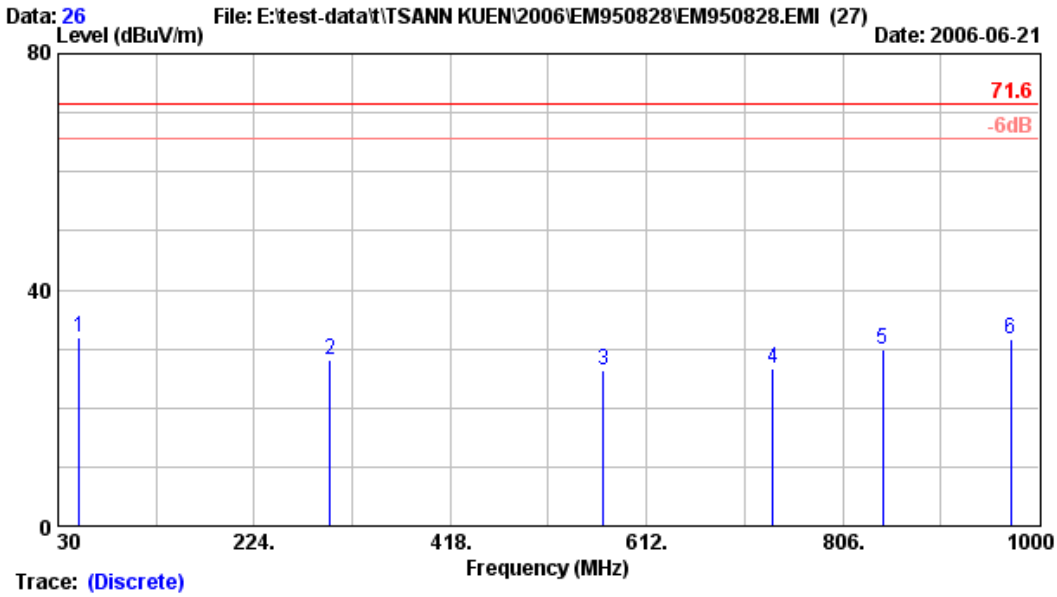


```
Site no.      : A/C Chamber                  Data no.   : 26
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POTATO
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	51.340	15.77	1.50	14.55	31.82	71.60	39.78	QP
2	298.690	26.80	3.90	-2.64	28.06	71.60	43.54	QP
3	569.320	22.06	6.50	-2.22	26.34	71.60	45.26	QP
4	737.130	23.41	6.60	-3.38	26.63	71.60	44.97	QP
5	845.770	26.61	7.10	-3.86	29.86	71.60	41.74	QP
6	971.870	26.81	7.70	-2.81	31.70	71.60	39.90	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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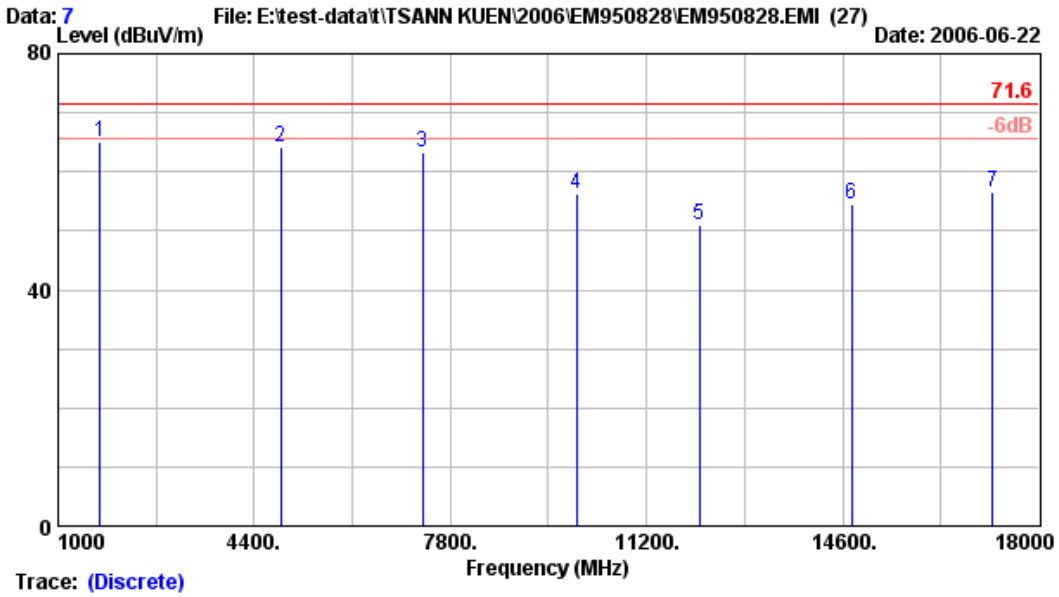

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : 71.6
Env. / Ins. : 8593EM 26*C/49% Engineer : Cater Chou
EUT : Microwave Oven M/N:TSK-M1601ME
Power Rating : 120Vac/60Hz
Test Mode : POWER(MAX)
700 milliliters of waters in the beaker
located in the center of the oven

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1731.000	26.60	7.04	31.33	64.97	71.60	6.63	Average
2	4859.000	33.75	9.15	21.41	64.31	71.60	7.29	Average
3	7324.000	37.00	11.44	14.97	63.42	71.60	8.18	Average
4	9993.000	38.67	12.85	4.79	56.31	71.60	15.29	Average
5	12118.000	38.76	14.97	-2.78	50.95	71.60	20.65	Average
6	14758.000	39.20	16.87	-1.57	54.50	71.60	17.10	Average
7	17201.000	43.34	17.24	-3.94	56.64	71.60	14.96	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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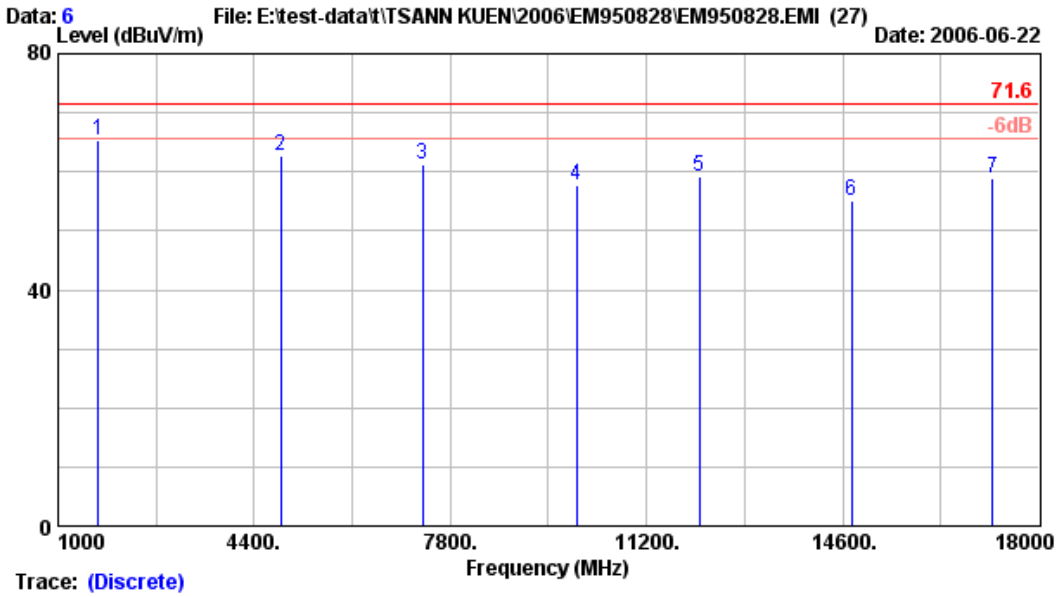


```
Site no.      : A/C Chamber                  Data no.   : 6
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1697.000	26.43	6.83	31.99	65.26	71.60	6.34	Average
2	4859.000	33.75	9.15	19.74	62.64	71.60	8.96	Average
3	7324.000	37.00	11.44	12.86	61.31	71.60	10.29	Average
4	9993.000	38.67	12.85	6.17	57.69	71.60	13.91	Average
5	12118.000	38.76	14.97	5.33	59.06	71.60	12.54	Average
6	14758.000	39.20	16.87	-0.86	55.21	71.60	16.39	Average
7	17201.000	43.34	17.24	-1.62	58.96	71.60	12.64	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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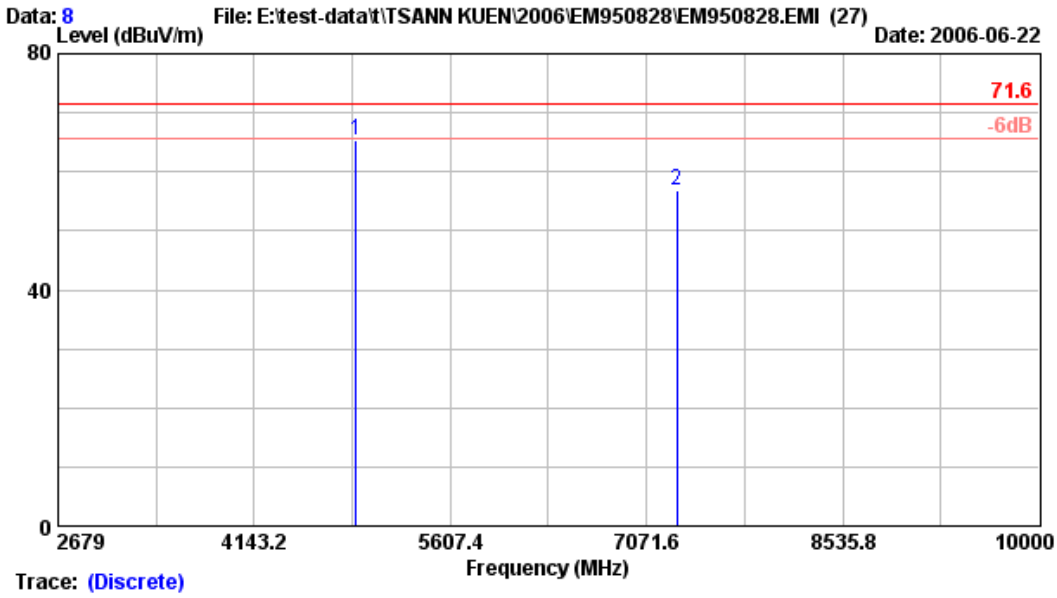


```
Site no.      : A/C Chamber                  Data no.   : 8
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
                700 milliliters of waters in the beaker
                located in the right front corner
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4904.584	33.85	9.16	22.21	65.22	71.60	6.38	Average
2	7298.551	36.95	11.41	8.49	56.85	71.60	14.75	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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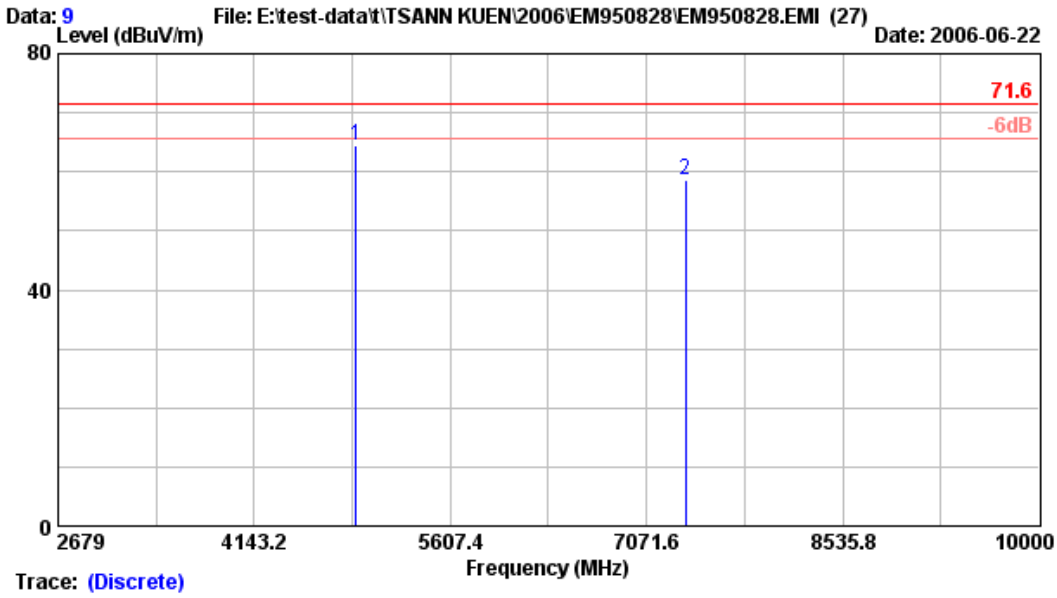


```
Site no.      : A/C Chamber                  Data no.   : 9
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
                700 milliliters of waters in the beaker
                located in the right front corner
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4904.584	33.85	9.16	21.60	64.61	71.60	6.99	Average
2	7364.440	37.10	11.51	9.99	58.60	71.60	13.00	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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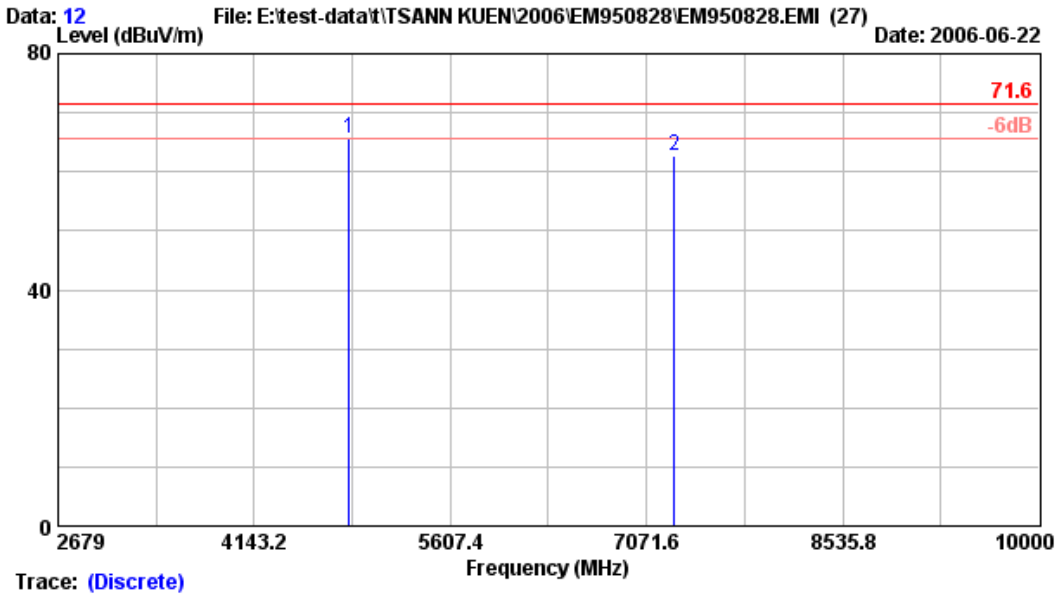


```
Site no.      : A/C Chamber                  Data no.   : 12
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
                300 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4853.337	33.75	9.15	22.80	65.71	71.60	5.89	Average
2	7276.588	36.90	11.32	14.47	62.69	71.60	8.91	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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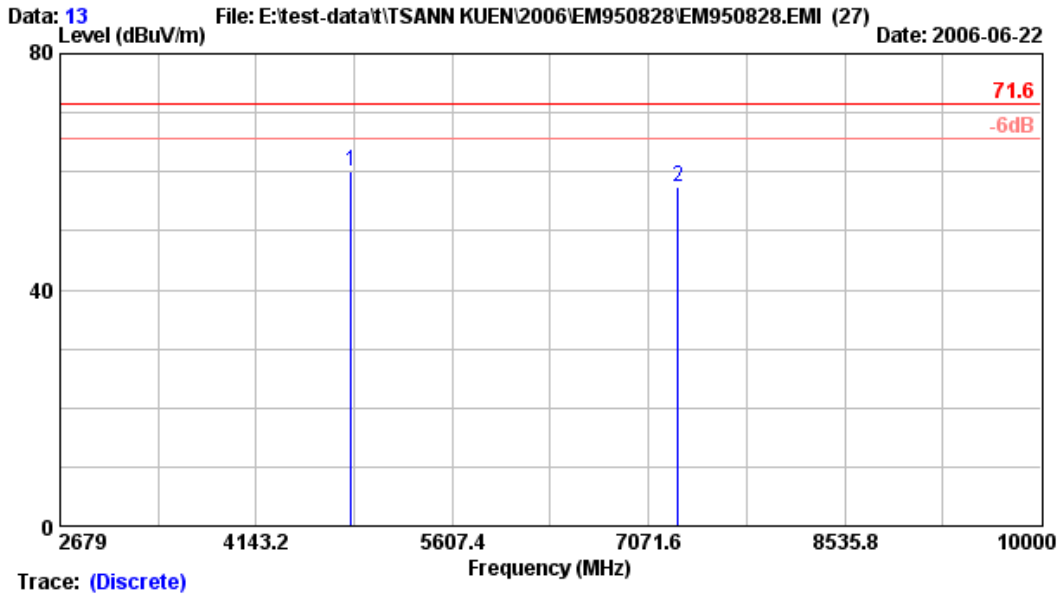


```
Site no.      : A/C Chamber                  Data no.   : 13
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
                300 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4853.337	33.75	9.15	17.14	60.05	71.60	11.55	Average
2	7291.230	36.90	11.36	9.30	57.57	71.60	14.03	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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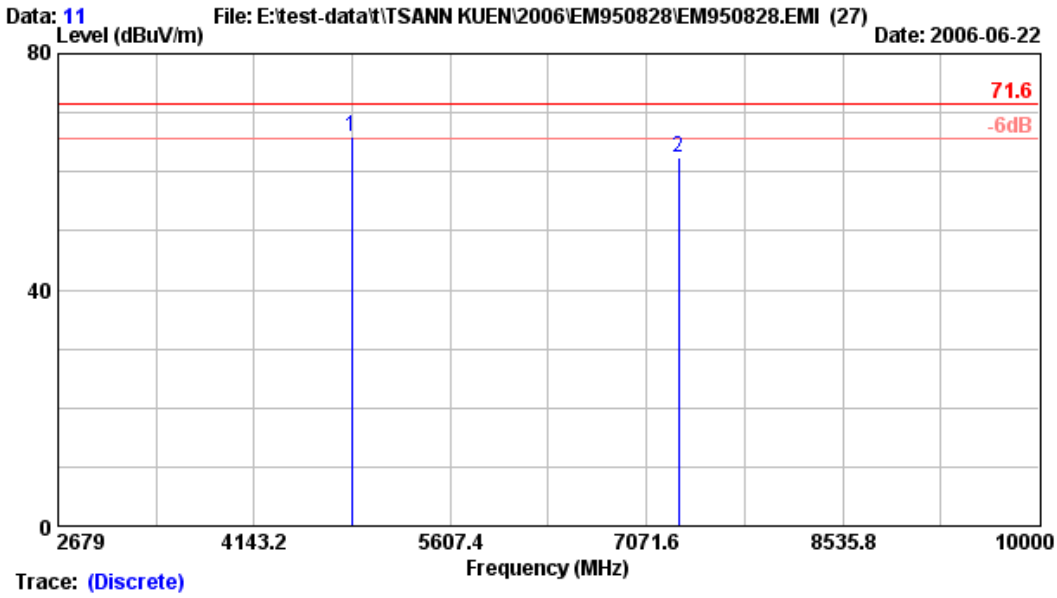


```
Site no.      : A/C Chamber                  Data no.   : 11
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
                300 milliliters of waters in the beaker
                located in the right front corner
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4867.979	33.78	9.15	22.90	65.83	71.60	5.77	Average
2	7313.193	36.95	11.41	14.04	62.40	71.60	9.20	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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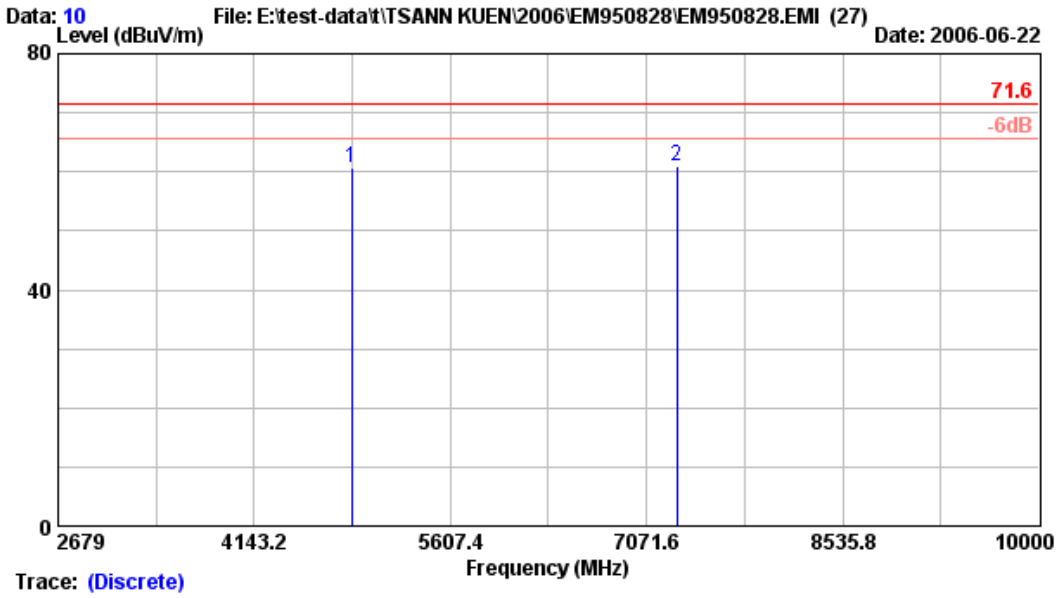


```
Site no.      : A/C Chamber                  Data no.   : 10
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : 71.6
Env. / Ins.   : 8593EM  26*C/49%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1601ME
Power Rating  : 120Vac/60Hz
Test Mode     : POWER(MAX)
                300 milliliters of waters in the beaker
                located in the right front corner
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4867.979	33.78	9.15	17.75	60.68	71.60	10.92	Average
2	7298.551	36.95	11.41	12.48	60.84	71.60	10.76	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

7.6.2. Radiated Emission Measurement Results of TSK-M1602MA

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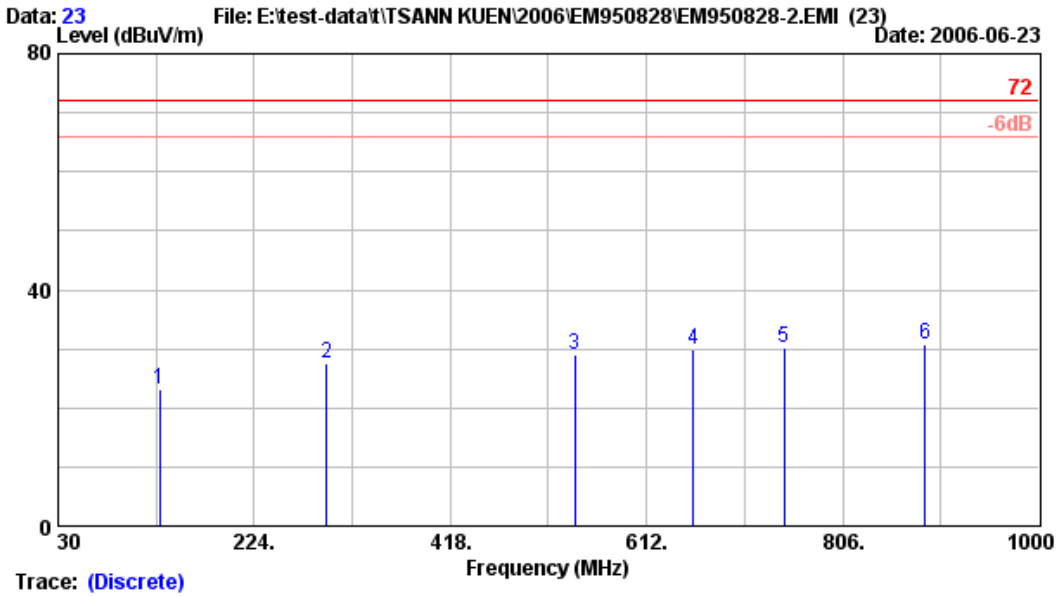


```
Site no.      : A/C Chamber                  Data no.   : 23
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : HORIZONTAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	130.880	19.79	2.40	0.85	23.05	72.00	48.95	QP
2	295.780	26.48	4.00	-2.97	27.50	72.00	44.50	QP
3	541.190	19.25	7.01	2.70	28.96	72.00	43.04	QP
4	658.560	22.21	6.40	1.38	29.99	72.00	42.01	QP
5	747.800	23.11	6.70	0.34	30.15	72.00	41.85	QP
6	887.480	25.16	7.30	-1.59	30.87	72.00	41.13	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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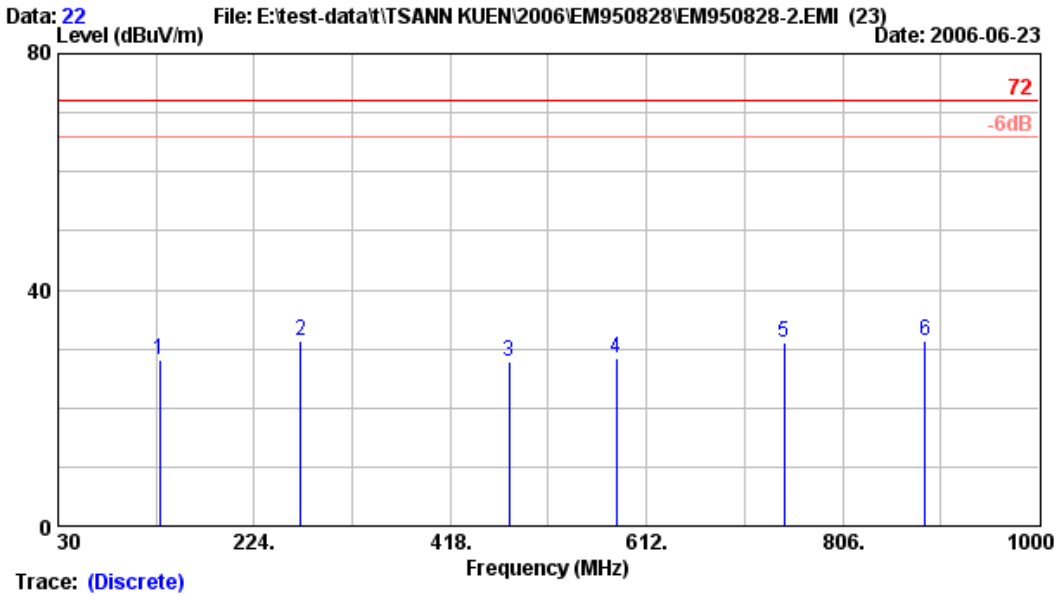


```
Site no.      : A/C Chamber                  Data no.   : 22
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	130.880	18.82	2.40	6.99	28.21	72.00	43.79	QP
2	269.590	25.91	3.70	1.67	31.28	72.00	40.72	QP
3	476.200	19.06	6.00	2.65	27.70	72.00	44.30	QP
4	581.930	21.72	6.30	0.37	28.39	72.00	43.61	QP
5	747.800	24.27	6.70	0.13	31.10	72.00	40.90	QP
6	887.480	25.68	7.30	-1.60	31.38	72.00	40.62	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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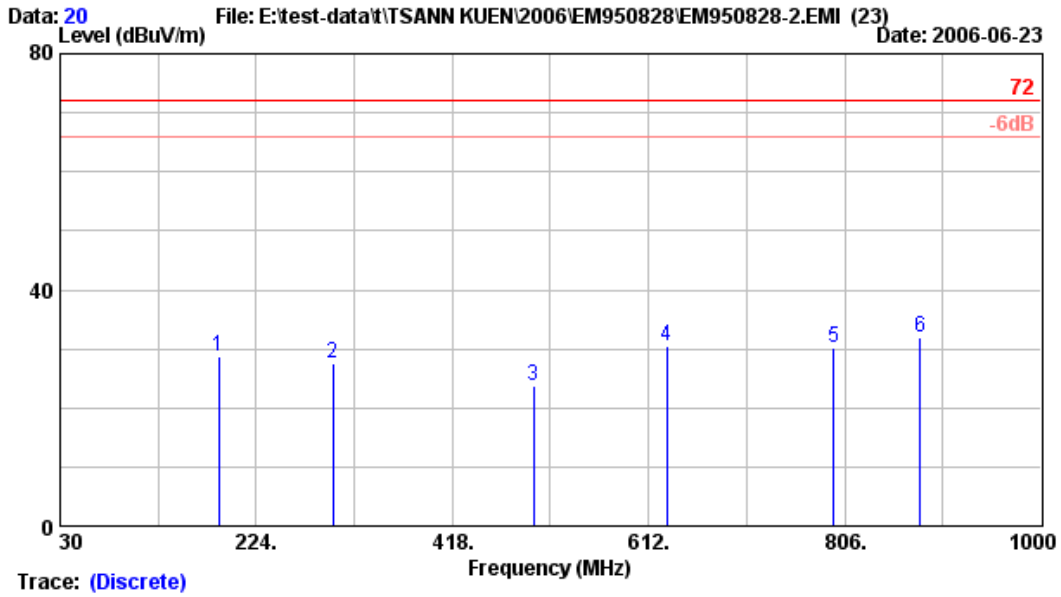


```
Site no.      : A/C Chamber                  Data no.   : 20
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : HORIZONTAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : MEDIUM
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	187.140	21.40	2.90	4.31	28.62	72.00	43.38	QP
2	299.660	26.77	3.90	-3.07	27.60	72.00	44.40	QP
3	498.510	18.79	6.50	-1.59	23.70	72.00	48.30	QP
4	630.430	20.96	6.40	2.98	30.34	72.00	41.66	QP
5	795.330	24.03	6.90	-0.62	30.30	72.00	41.70	QP
6	880.690	25.34	7.30	-0.81	31.83	72.00	40.17	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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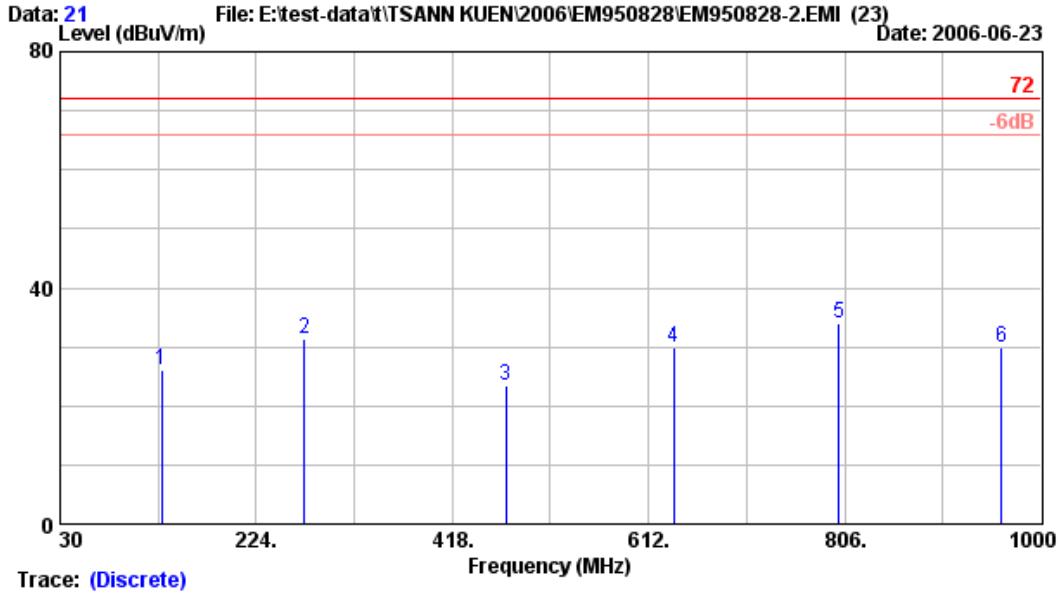


```
Site no.      : A/C Chamber                  Data no.   : 21
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : MEDIUM
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	130.880	18.82	2.40	4.74	25.95	72.00	46.05	QP
2	271.530	25.84	3.70	1.76	31.30	72.00	40.70	QP
3	471.350	19.15	5.80	-1.55	23.40	72.00	48.60	QP
4	637.220	21.18	6.20	2.52	29.90	72.00	42.10	QP
5	800.180	24.81	6.90	2.34	34.06	72.00	37.94	QP
6	961.200	27.14	7.60	-4.70	30.04	72.00	41.96	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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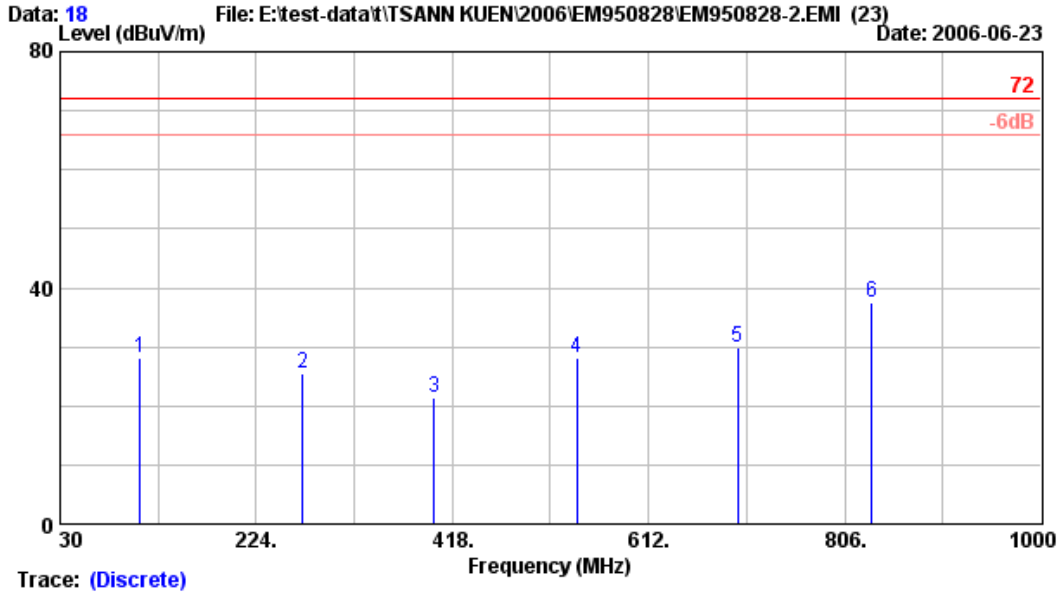


```
Site no.      : A/C Chamber                  Data no.   : 18
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : HORIZONTAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : LOW
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	109.540	18.13	2.20	7.77	28.10	72.00	43.90	QP
2	269.590	24.92	3.70	-3.18	25.44	72.00	46.56	QP
3	399.570	17.69	4.80	-1.17	21.31	72.00	50.69	QP
4	541.190	19.25	7.01	1.78	28.04	72.00	43.96	QP
5	700.270	23.46	6.50	-0.16	29.80	72.00	42.20	QP
6	833.160	24.88	7.10	5.50	37.48	72.00	34.52	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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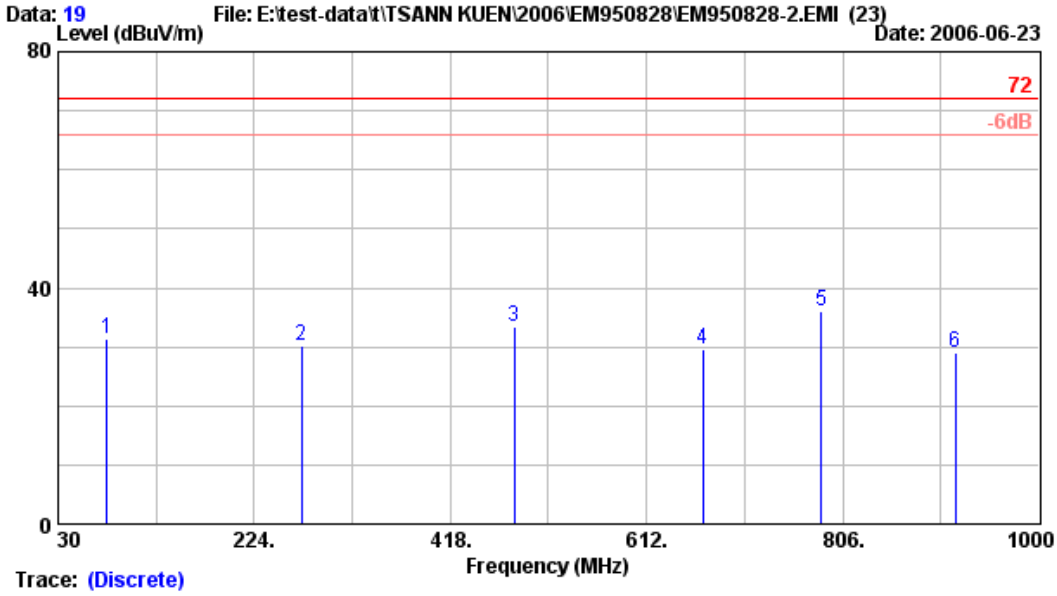


```
Site no.      : A/C Chamber                  Data no.   : 19
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : LOW
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	78.500	13.92	1.80	15.49	31.21	72.00	40.79	QP
2	270.560	25.82	3.70	0.72	30.23	72.00	41.77	QP
3	481.050	18.93	6.10	8.40	33.42	72.00	38.58	QP
4	667.290	22.62	6.40	0.72	29.74	72.00	42.26	QP
5	784.660	25.40	6.90	3.60	35.90	72.00	36.10	QP
6	917.550	25.67	7.40	-4.02	29.05	72.00	42.95	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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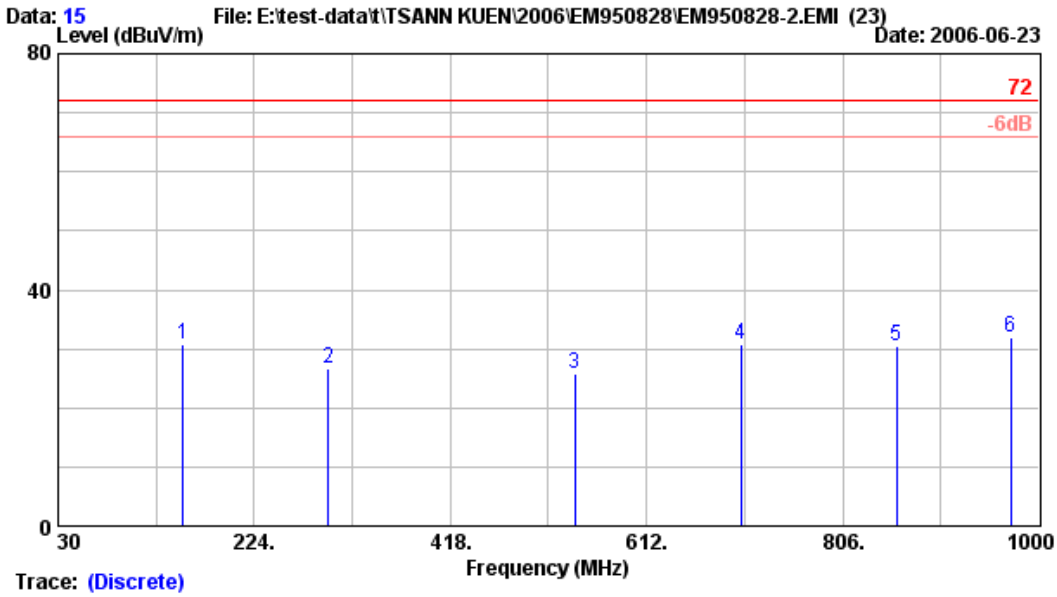


```
Site no.      : A/C Chamber                  Data no.   : 15
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : HORIZONTAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : WARM
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	153.190	20.69	2.60	7.55	30.85	72.00	41.15	QP
2	297.720	26.68	3.98	-3.95	26.71	72.00	45.29	QP
3	541.190	19.25	7.01	-0.54	25.72	72.00	46.28	QP
4	705.120	23.56	6.60	0.53	30.69	72.00	41.31	QP
5	859.350	26.01	7.20	-2.81	30.39	72.00	41.61	QP
6	971.870	26.79	7.70	-2.57	31.92	72.00	40.08	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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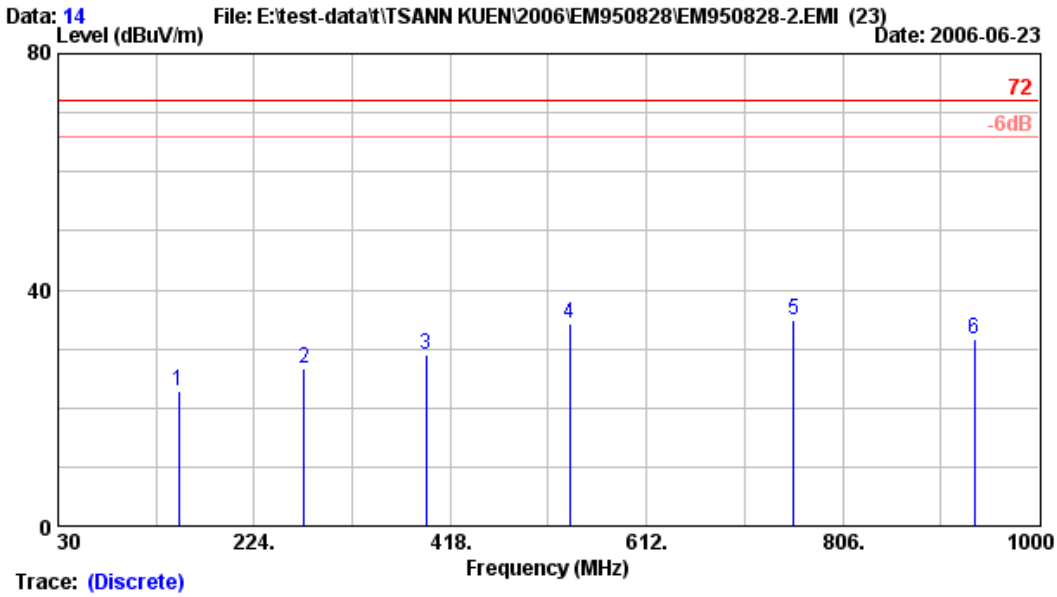


```
Site no.      : A/C Chamber                  Data no.   : 14
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : WARM
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	149.310	22.02	2.60	-1.77	22.85	72.00	49.15	QP
2	273.470	25.90	3.70	-2.90	26.70	72.00	45.30	QP
3	393.750	17.76	4.70	6.51	28.97	72.00	43.03	QP
4	536.340	20.10	7.07	7.17	34.34	72.00	37.66	QP
5	757.500	24.81	6.80	3.27	34.88	72.00	37.12	QP
6	935.980	26.53	7.50	-2.31	31.72	72.00	40.28	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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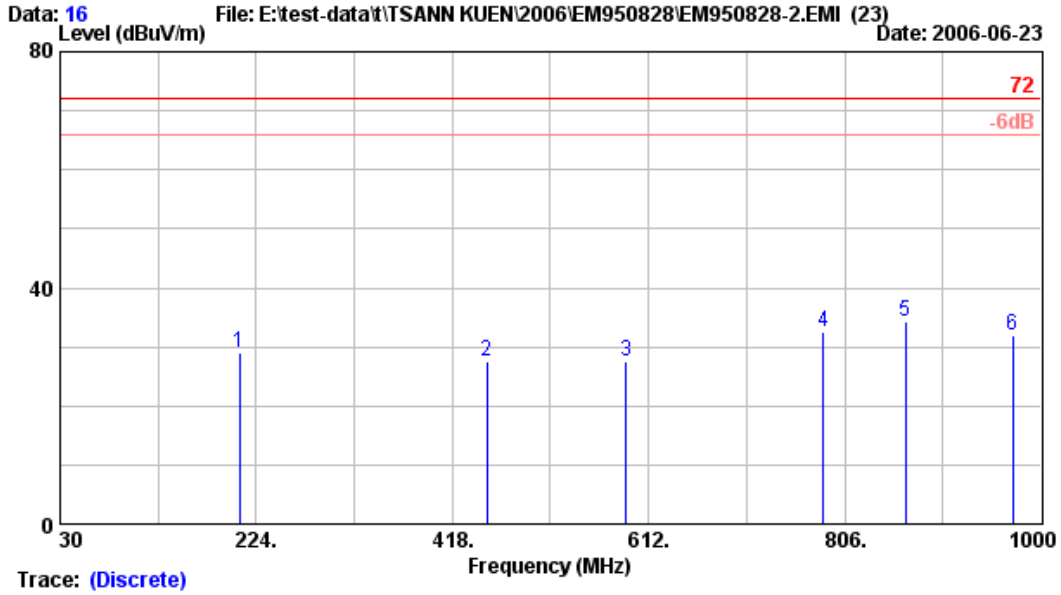


```
Site no.      : A/C Chamber                  Data no.   : 16
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : HORIZONTAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : DEFROST
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	207.510	21.88	3.10	4.11	29.08	72.00	42.92	QP
2	451.950	17.65	5.40	4.40	27.45	72.00	44.55	QP
3	589.690	21.01	6.30	0.12	27.43	72.00	44.57	QP
4	784.660	23.87	6.90	1.81	32.58	72.00	39.42	QP
5	866.140	25.97	7.20	1.17	34.34	72.00	37.66	QP
6	971.870	26.79	7.70	-2.53	31.96	72.00	40.04	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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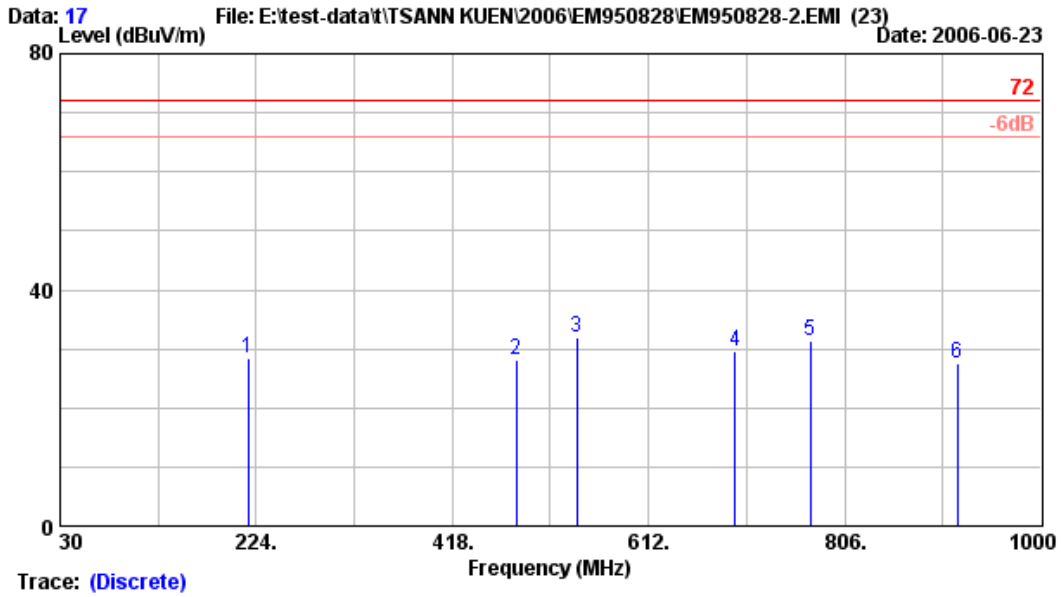


```
Site no.      : A/C Chamber                  Data no.   : 17
Dis. / Ant.   : 3m   VBA6106A/UHALP9108-A    Ant. pol.  : VERTICAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : DEFROST
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	216.240	22.37	3.20	2.71	28.29	72.00	43.71	QP
2	481.050	18.93	6.10	3.10	28.12	72.00	43.88	QP
3	541.190	20.48	7.01	4.43	31.92	72.00	40.08	QP
4	697.360	22.93	6.50	0.27	29.70	72.00	42.30	QP
5	772.050	25.13	6.80	-0.46	31.46	72.00	40.54	QP
6	917.550	25.67	7.40	-5.63	27.44	72.00	44.56	QP

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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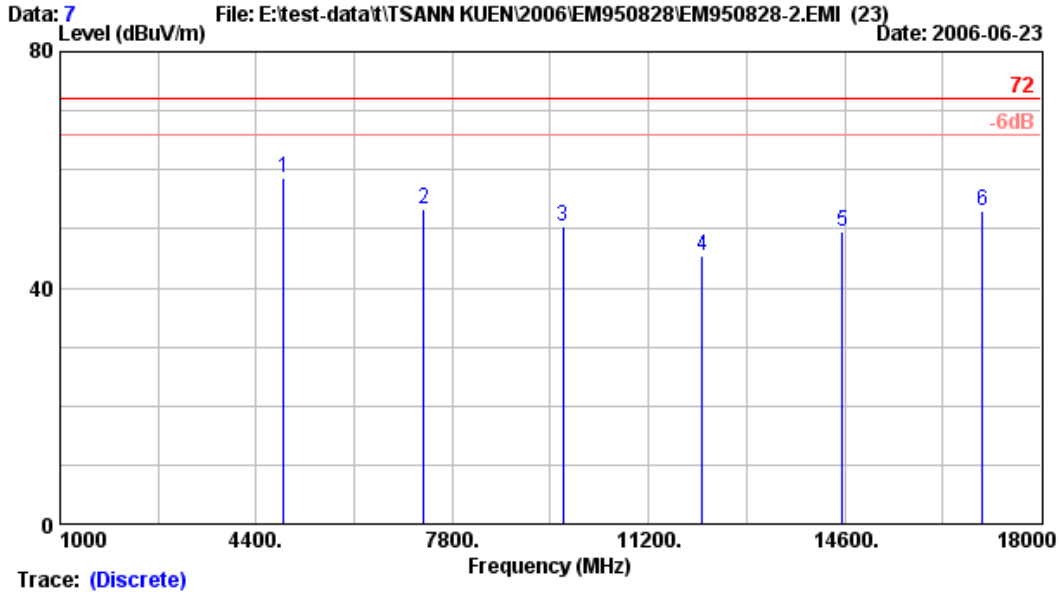


```
Site no.      : A/C Chamber                  Data no.   : 7
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4876.000	33.78	9.15	15.80	58.73	72.00	13.27	Average
2	7307.000	36.95	11.41	5.11	53.47	72.00	18.53	Average
3	9721.000	38.37	12.96	-0.90	50.44	72.00	21.56	Average
4	12134.500	38.79	14.97	-8.31	45.44	72.00	26.56	Average
5	14561.400	39.93	16.69	-7.07	49.55	72.00	22.45	Average
6	16988.300	42.10	16.97	-5.95	53.12	72.00	18.88	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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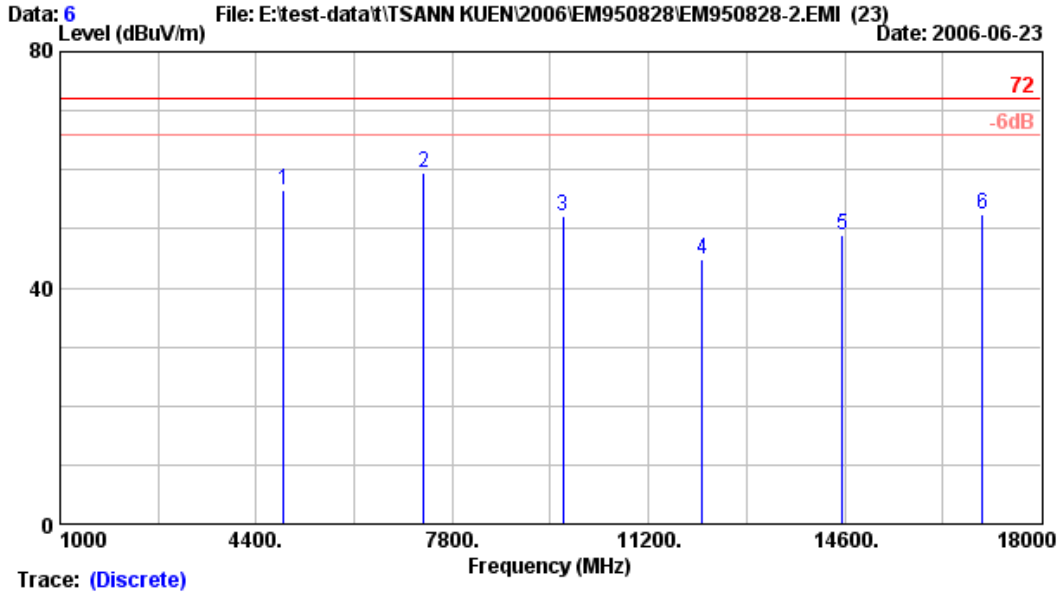


```
Site no.      : A/C Chamber                  Data no.   : 6
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                700 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4876.000	33.78	9.15	13.54	56.47	72.00	15.53	Average
2	7307.000	36.95	11.41	10.99	59.35	72.00	12.65	Average
3	9721.000	38.37	12.96	0.73	52.07	72.00	19.93	Average
4	12134.500	38.79	14.97	-8.85	44.90	72.00	27.10	Average
5	14561.400	39.93	16.69	-7.71	48.92	72.00	23.08	Average
6	16988.300	42.10	16.97	-6.70	52.37	72.00	19.63	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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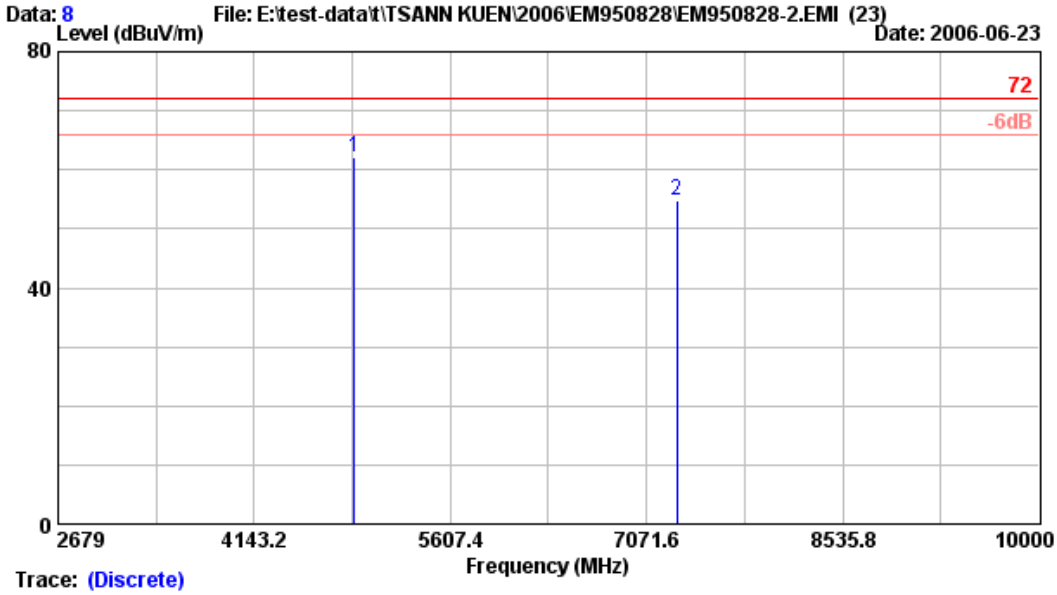


```
Site no.      : A/C Chamber                  Data no.   : 8
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                700 milliliters of waters in the beaker
                located in the right front corner
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4889.942	33.82	9.16	19.24	62.23	72.00	9.77	Average
2	7298.551	36.95	11.41	6.52	54.88	72.00	17.12	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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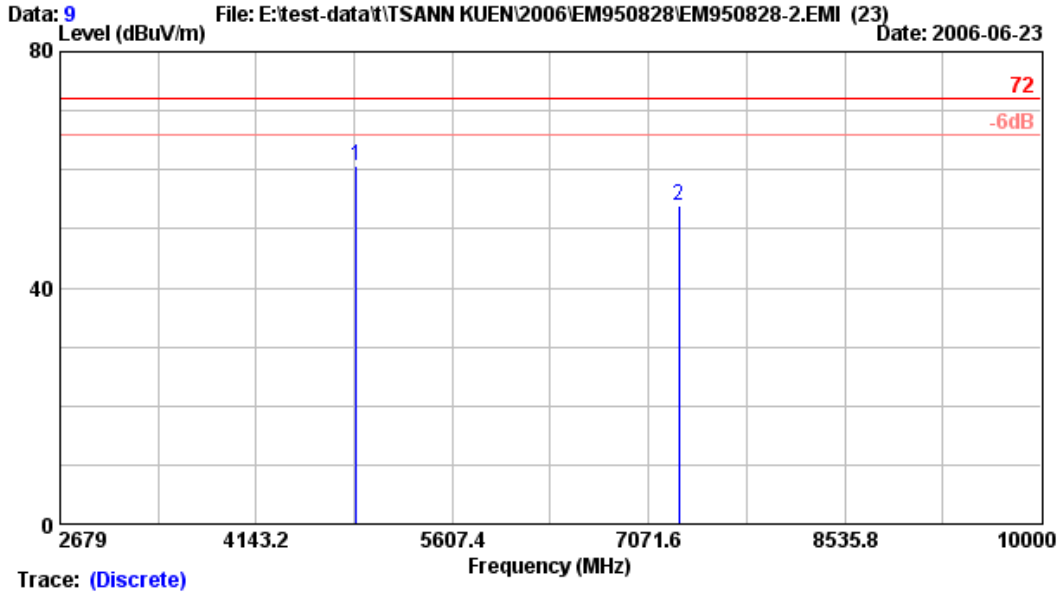


```
Site no.      : A/C Chamber                  Data no.   : 9
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                700 milliliters of waters in the beaker
                located in the right front corner
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4889.942	33.82	9.16	17.65	60.63	72.00	11.37	Average
2	7298.551	36.95	11.41	5.53	53.89	72.00	18.11	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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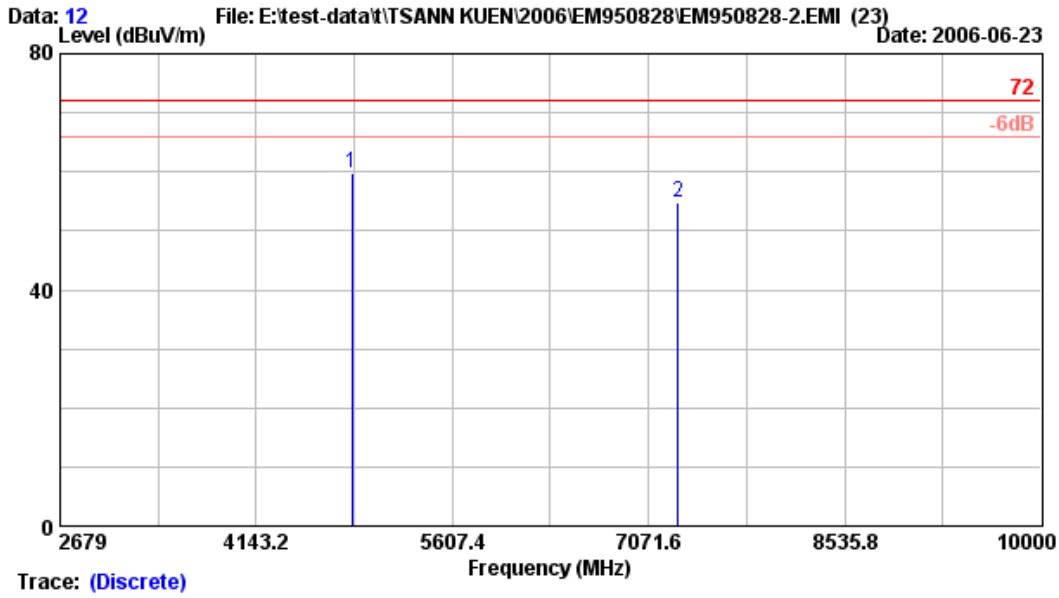


```
Site no.      : A/C Chamber                  Data no.   : 12
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                300 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4860.658	33.75	9.15	16.80	59.70	72.00	12.30	Average
2	7291.230	36.90	11.36	6.54	54.81	72.00	17.19	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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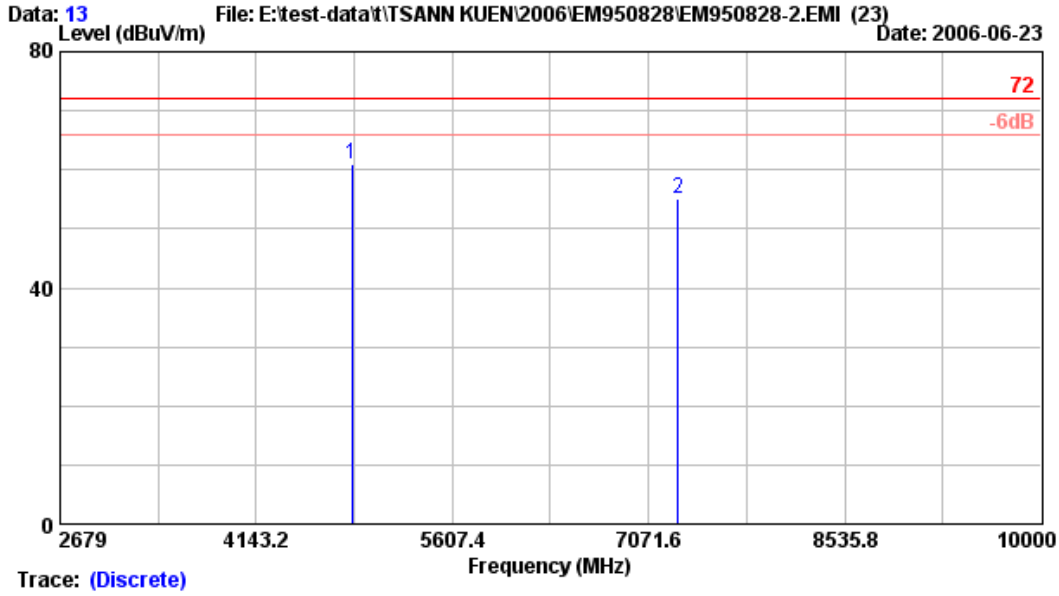


```
Site no.      : A/C Chamber                  Data no.   : 13
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                300 milliliters of waters in the beaker
                located in the center of the oven
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4860.658	33.75	9.15	18.08	60.98	72.00	11.02	Average
2	7291.230	36.90	11.36	6.93	55.20	72.00	16.80	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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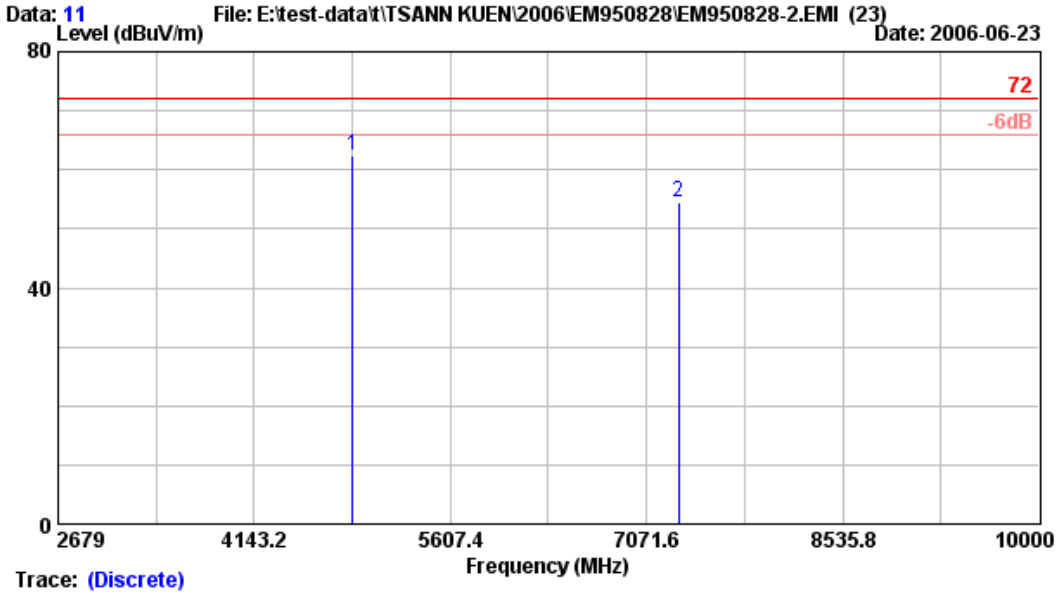


```
Site no.      : A/C Chamber                  Data no.   : 11
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                300 milliliters of waters in the beaker
                located in the right front corner
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4875.300	33.78	9.15	19.46	62.39	72.00	9.61	Average
2	7313.193	36.95	11.41	6.29	54.65	72.00	17.35	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

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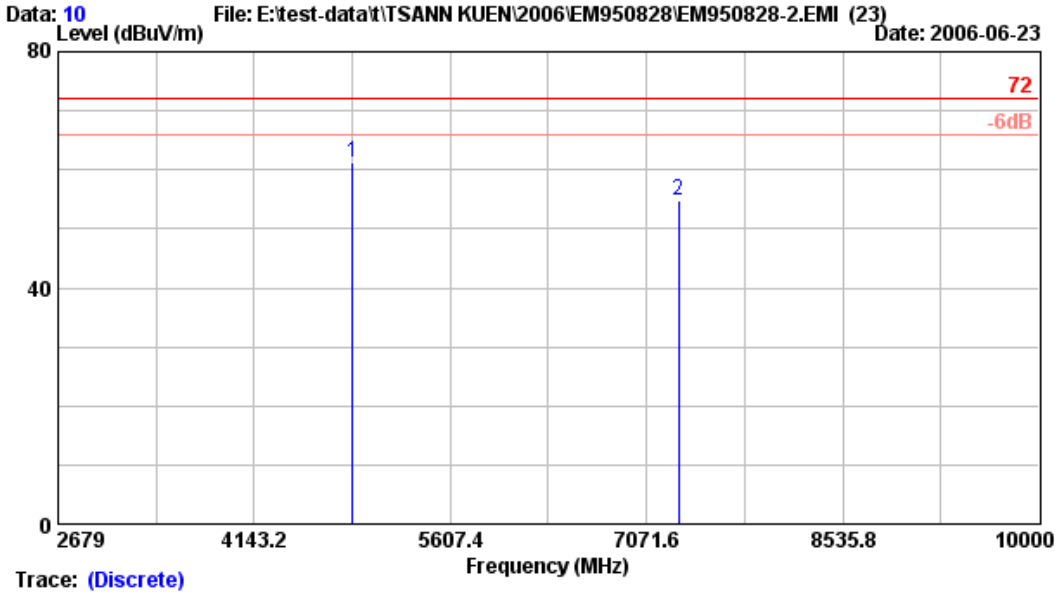



```
Site no.      : A/C Chamber                  Data no.   : 10
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : 72
Env. / Ins.   : 8593EM  26*C/45%             Engineer   : Cater Chou
EUT           : Microwave Oven M/N:TSK-M1602MA
Power Rating  : 120Vac/60Hz
Test Mode     : HIGH
                300 milliliters of waters in the beaker
                located in the right front corner
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	4875.300	33.78	9.15	18.20	61.13	72.00	10.87	Average
2	7313.193	36.95	11.41	6.36	54.72	72.00	17.28	Average

Remarks: 1. Emission Level=Antenna Factor + Cable Loss + Reading
2. The emission levels that are 20dB below the official limit are not reported.

8. DEVIATION TO TEST SPECIFICATIONS

【NONE】

9. PHOTOGRAPHS

9.1.Photo of Input Power Measurement

Test Model: TSK-M1601ME

Test Model: TSK-M1602MA

9.2.Photo of Output Frequency Measurement

Test Model: TSK-M1601ME

Test Model: TSK-M1602MA

9.3.Photo of Frequency Measurement

Test Model: TSK-M1601ME

Test Model: TSK-M1602MA

9.4.Photos of Conducted Eemission Measurement

Test Model: TSK-M1601ME

FRONT VIEW OF CONTUCTED MEASUREMENT

BACK VIEW OF CONDUCTED MEASUREMENT

Test Model: TSK-M1602MA

FRONT VIEW OF CONTUCTED MEASUREMENT

BACK VIEW OF CONDUCTED MEASUREMENT

9.5. Photos of Radiated Measurement at Semi-Anechoic Chamber (Below 1GHz)

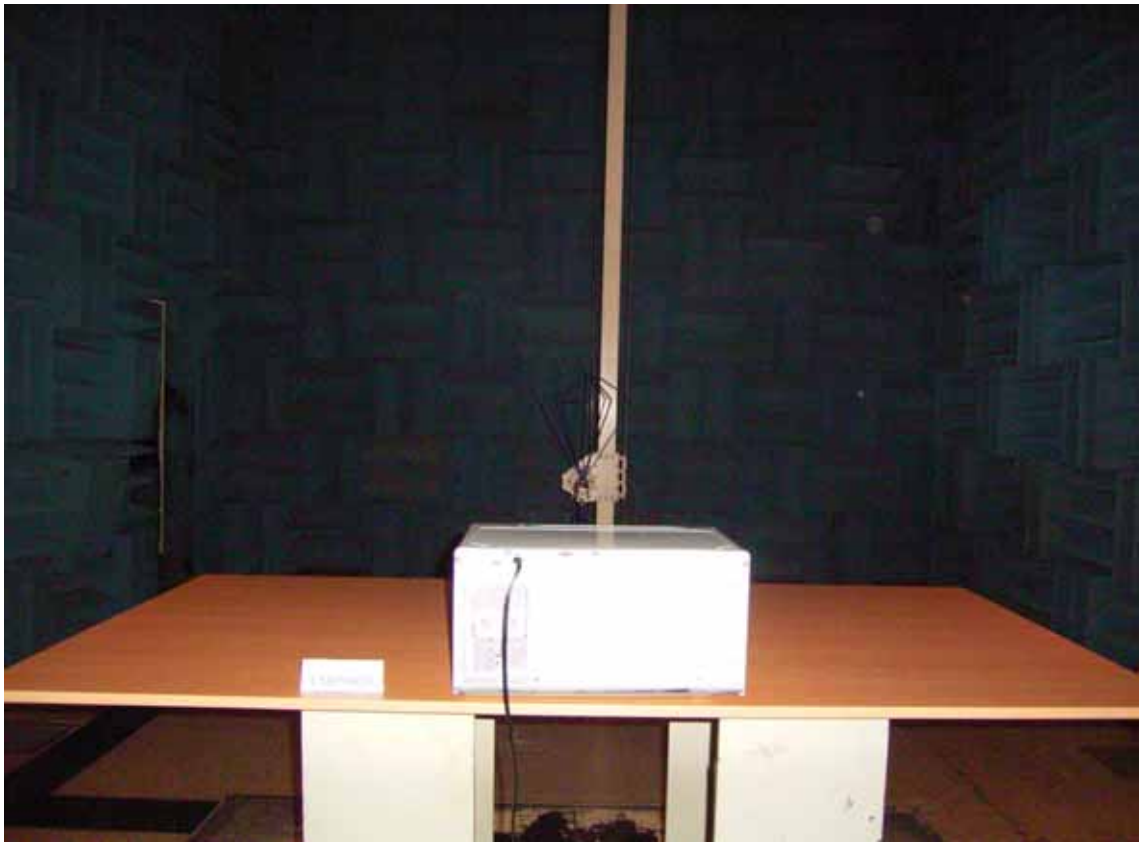
Test Model: TSK-M1601ME

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

Test Model: TSK-M1602MA

FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

9.6. Photos of Radiated Measurement at Semi-Anechoic Chamber (Above 1GHz)

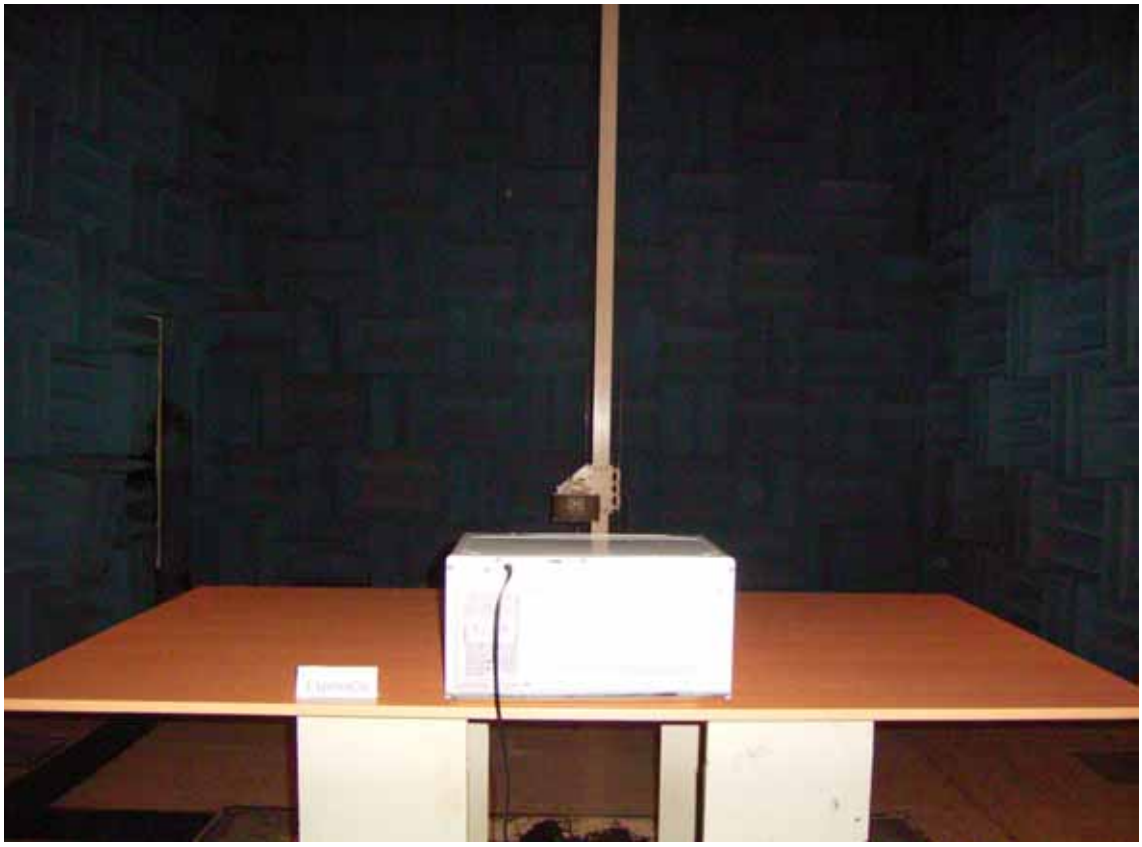
Test Model: TSK-M1601ME

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

Test Model: TSK-M1602MA

FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT