

# FCC RADIO TEST REPORT

Applicant's company	<b>Wistron NeWeb Corporation</b>
Applicant Address	No. 10-1, Li-hsin Road I, Science-baded Industrial Park, Hsinchu 300, Taiwan, R.O.C.
Manufacturer's company	<b>1.Wistron NeWeb Corporation</b> <b>2.WNC (Kunshan) Corp.</b>
Manufacturer Address	1.No. 10-1, Li-hsin Road I, Science-baded Industrial Park, Hsinchu 300, Taiwan, R.O.C. 2. No. 88 Central Avenue, Area B, Kunshan Export Processing Zone, Kunshan City, Jiangsu, China

Product Name	Satellite Radio PnP Receiver
Brand Name	SIRIUS
Model Name	SV5, SV5TK1, SV5TK1R, SV5TK1C, SV5TK1B
Receive Date	Apr. 23, 2008
Final Test Date	Apr. 25, 2008

## 1. SUMMARY OF THE TEST RESULT

Part	Description of Test	Under Limit
3.1	Field Strength of Fundamental Emissions	4.82 dB

Note: Due to the frequency shift for PK data equipment, the PK frequency should follow the AV data equipment in pat 3.1.

## 2. GENERAL INFORMATION

### 2.1. Table for Carrier Frequencies

Frequency Band	Channel No.	Frequency
88 ~ 108MHz	1	88.1 MHz
	2	88.3 MHz
	:	:
	50	97.9 MHz
	51	98.1 MHz
	52	98.3 MHz
	:	:
	99	107.7 MHz
	100	107.9 MHz

### 2.2. Test Modes

Mode 1: CEFIRO + SV5, SV5TK1, SV5TK1R, SV5TK1C, SV5TK1B

Mode 2: CIVIC + SV5, SV5TK1, SV5TK1R, SV5TK1C, SV5TK1B

Mode 3: SAVRIN + SV5, SV5TK1, SV5TK1R, SV5TK1C, SV5TK1B

### 2.3. Table for Testing Locations

Test Site No.	Site Category	Location
10CH01-HY	SAC	Hwa Ya

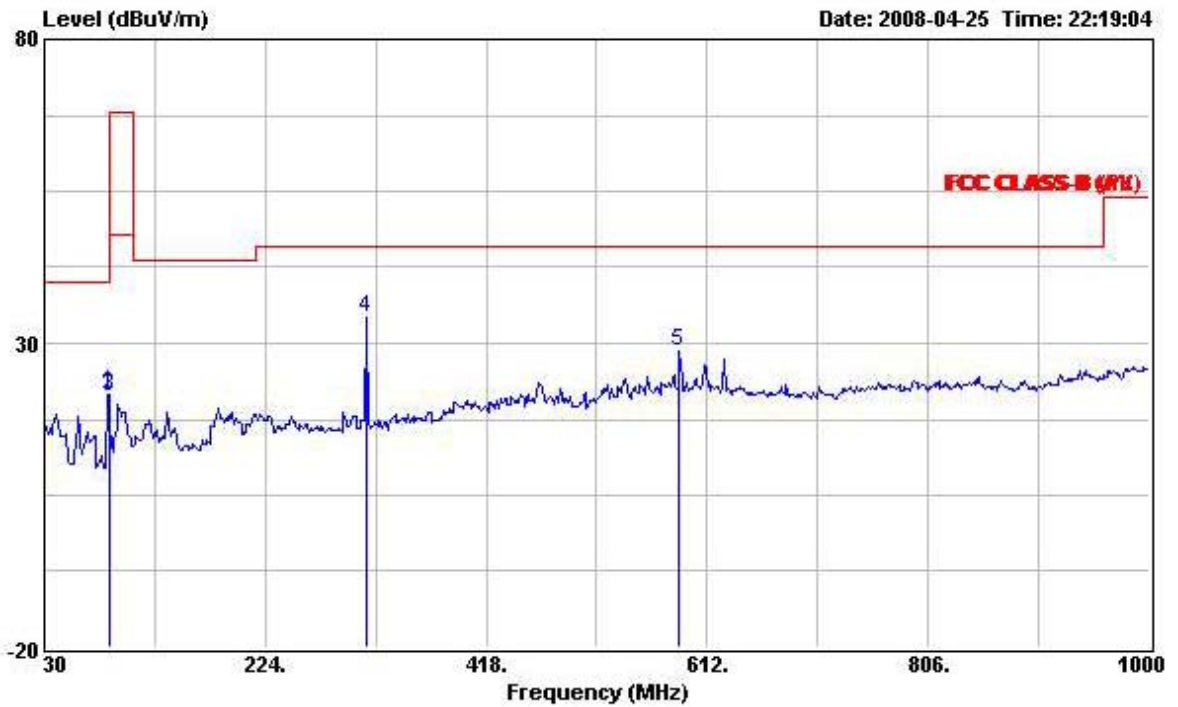
Semi Anechoic Chamber (SAC)

### 3. TEST RESULT

#### 3.1. Test Result of Field Strength of Fundamental Emissions

Temperature	23°C	Humidity	60%
Configurations	88.1MHz / Mode 1		

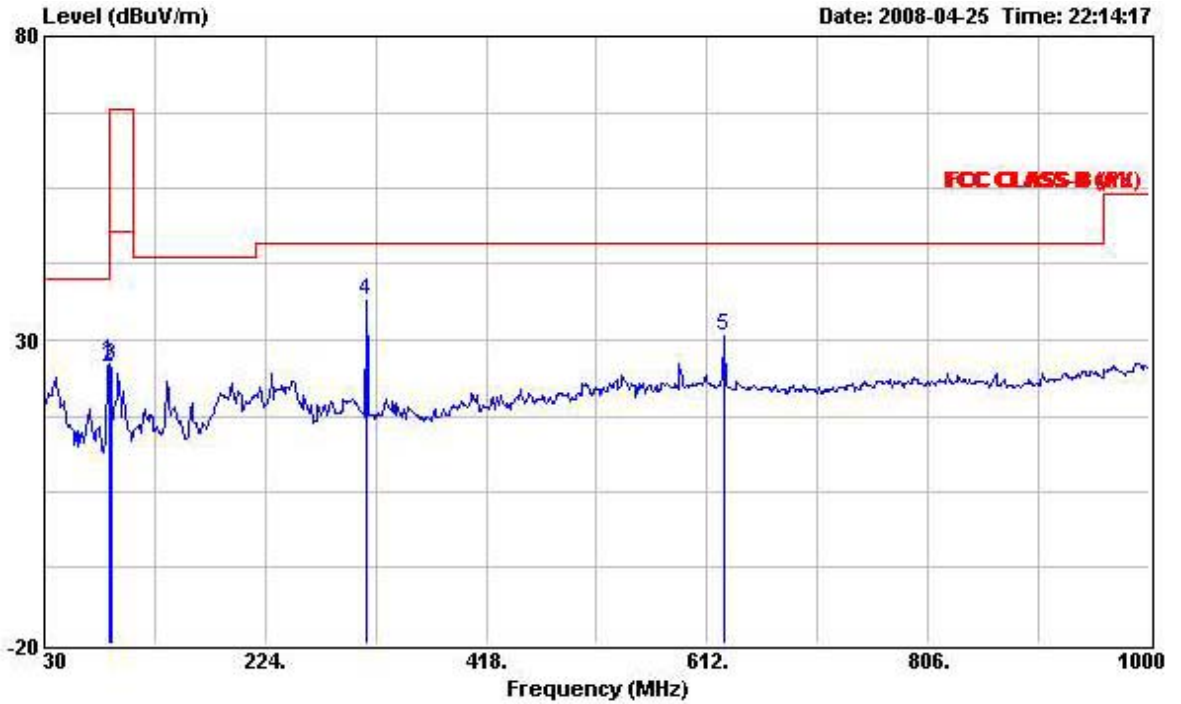
Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 EUT : SV5  
 Power :  
 model : FM 88.1M  
 Memo : CEFIRO  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	88.000	21.99	-18.01	40.00	39.02	1.58	9.34	27.95	QP	220	68
2	88.010	21.57	-46.43	68.00	38.60	1.58	9.34	27.95	Peak	---	---
3	88.080	21.09	-26.91	48.00	38.12	1.58	9.34	27.95	Average	220	68
4	312.270	34.29	-11.71	46.00	44.66	2.90	13.99	27.26	Peak	---	---
5	587.750	28.72	-17.28	46.00	33.52	3.88	19.74	28.42	Peak	---	---

Vertical

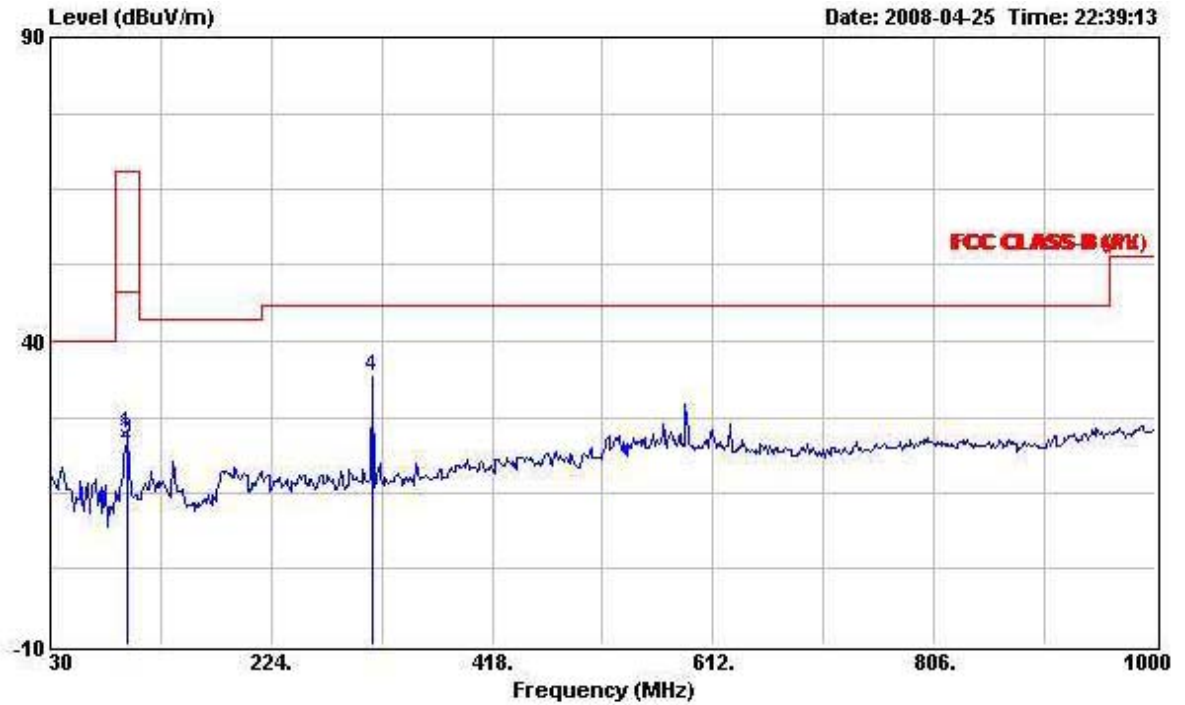


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 EUT : SV5  
 Power :  
 model : FM 88.1M  
 Memo : CEFIRO  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	88.000	26.29	-13.71	40.00	43.32	1.58	9.34	27.95	QP	126	91
2	88.080	25.43	-22.57	48.00	42.46	1.58	9.34	27.95	Average	126	91
3	88.200	25.88	-42.12	68.00	42.91	1.58	9.34	27.95	Peak	---	---
4	313.240	36.37	-9.63	46.00	46.72	2.90	14.01	27.26	Peak	---	---
5	626.550	30.54	-15.46	46.00	35.08	4.03	19.78	28.35	Peak	---	---

Temperature	23°C	Humidity	60%
Configurations	98.1MHz / Mode 1		

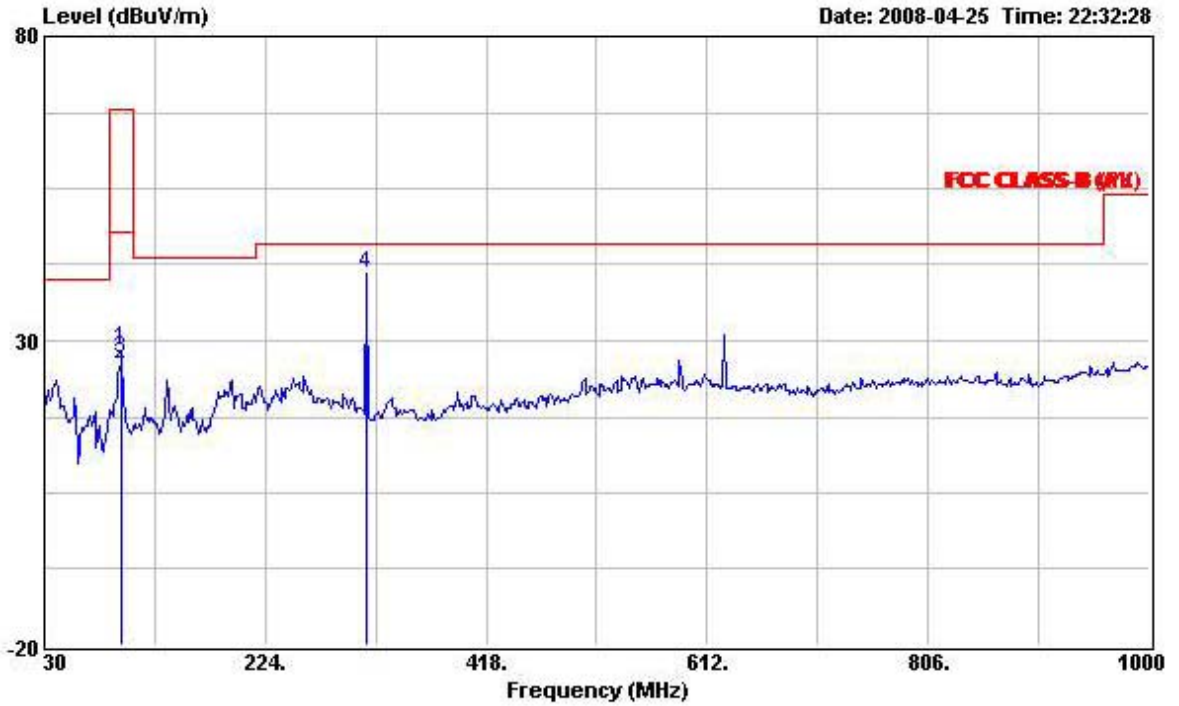
Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 EUT : SV5  
 Power :  
 model : FM 98.1M  
 Memo : CEFIRO  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	97.900	24.80	-43.20	68.00	39.97	1.61	11.13	27.91	Peak	---	---
2	98.090	23.04	-44.96	68.00	38.21	1.61	11.13	27.91	Average	351	226
3	98.090	23.83	-44.17	68.00	39.00	1.61	11.13	27.91	QP	351	226
4	312.270	34.08	-11.92	46.00	44.45	2.90	13.99	27.26	Peak	---	---

Vertical

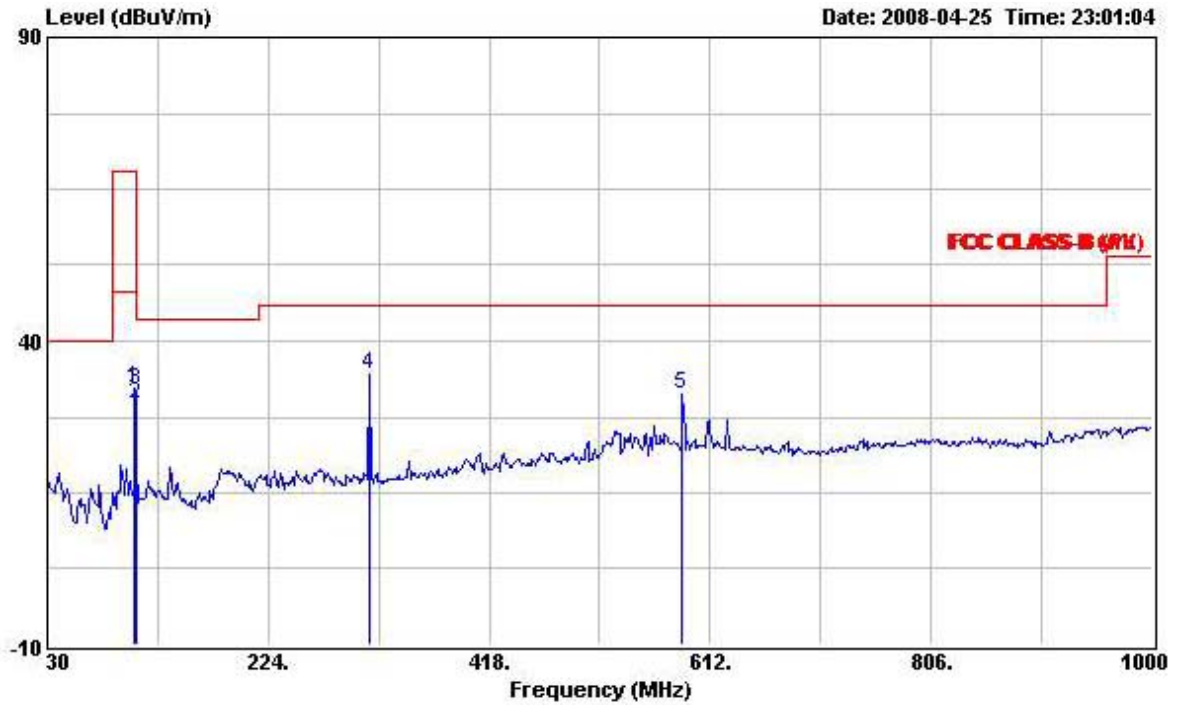


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 EUT : SV5  
 Power :  
 model : FM 98.1M  
 Memo : CEFIRO  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	97.900	28.83	-39.17	68.00	44.00	1.61	11.13	27.91	Peak	---	---
2	98.090	26.26	-21.74	48.00	41.43	1.61	11.13	27.91	Average	100	94
3	98.090	26.93	-41.07	68.00	42.10	1.61	11.13	27.91	QP	100	94
4	312.270	41.02	-4.98	46.00	51.39	2.90	13.99	27.26	Peak	---	---

Temperature	23°C	Humidity	60%
Configurations	107.9MHz / Mode 1		

Horizontal

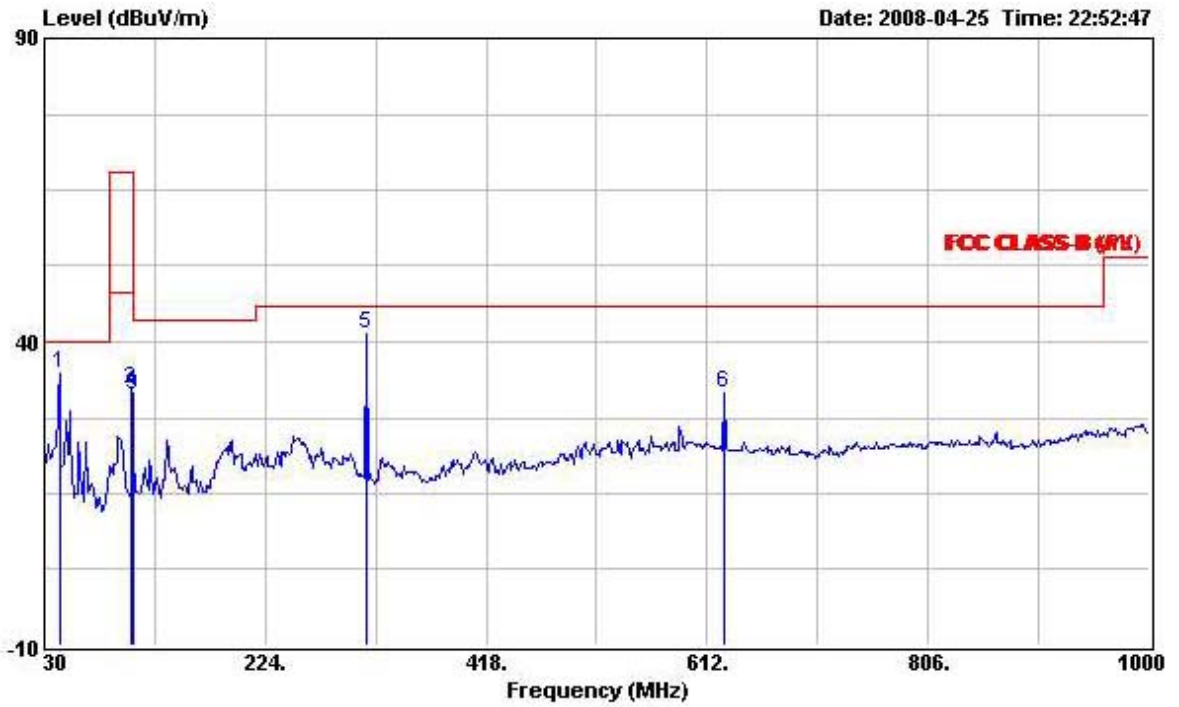


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 EUT : SV5  
 Power :  
 model : FM 107.9M  
 Memo : CEFIRO  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	106.630	32.10	-35.90	68.00	46.13	1.66	12.18	27.87	Peak	---	---
2	107.870	29.69	-18.31	48.00	43.60	1.67	12.28	27.86	Average	256	246
3	108.000	31.89	-11.61	43.50	45.80	1.67	12.28	27.86	QP	256	246
4	312.270	34.37	-11.63	46.00	44.74	2.90	13.99	27.26	Peak	---	---
5	587.750	31.26	-14.74	46.00	36.06	3.88	19.74	28.42	Peak	---	---



Vertical

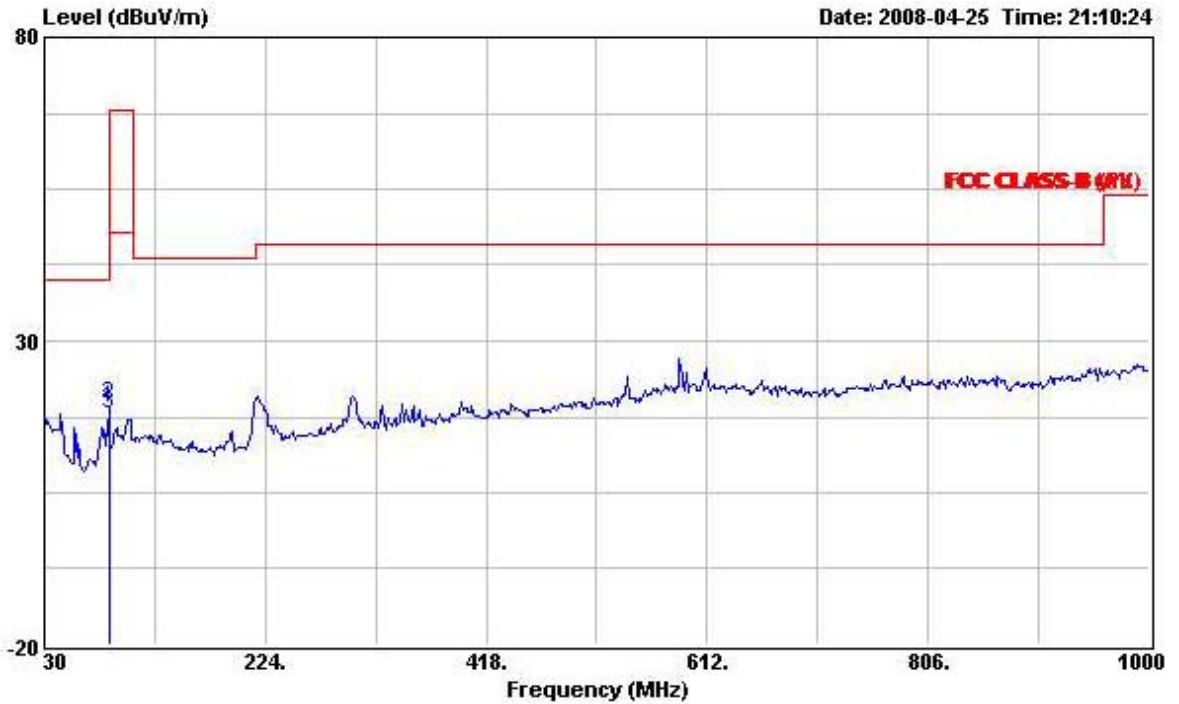


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 EUT : SV5  
 Power :  
 model : FM 107.9M  
 Memo : CEFIRO  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	43.580	34.95	-5.05	40.00	49.32	1.16	12.57	28.10	Peak	---	---
2	106.630	32.15	-35.85	68.00	46.18	1.66	12.18	27.87	Peak	---	---
3	107.890	31.29	-16.71	48.00	45.20	1.67	12.28	27.86	Average	100	234
4	108.000	32.01	-11.49	43.50	45.92	1.67	12.28	27.86	QP	100	234
5	312.270	41.18	-4.82	46.00	51.55	2.90	13.99	27.26	Peak	---	---
6	626.550	31.47	-14.53	46.00	36.01	4.03	19.78	28.35	Peak	---	---

Temperature	23°C	Humidity	60%
Configurations	88.1MHz / Mode 2		

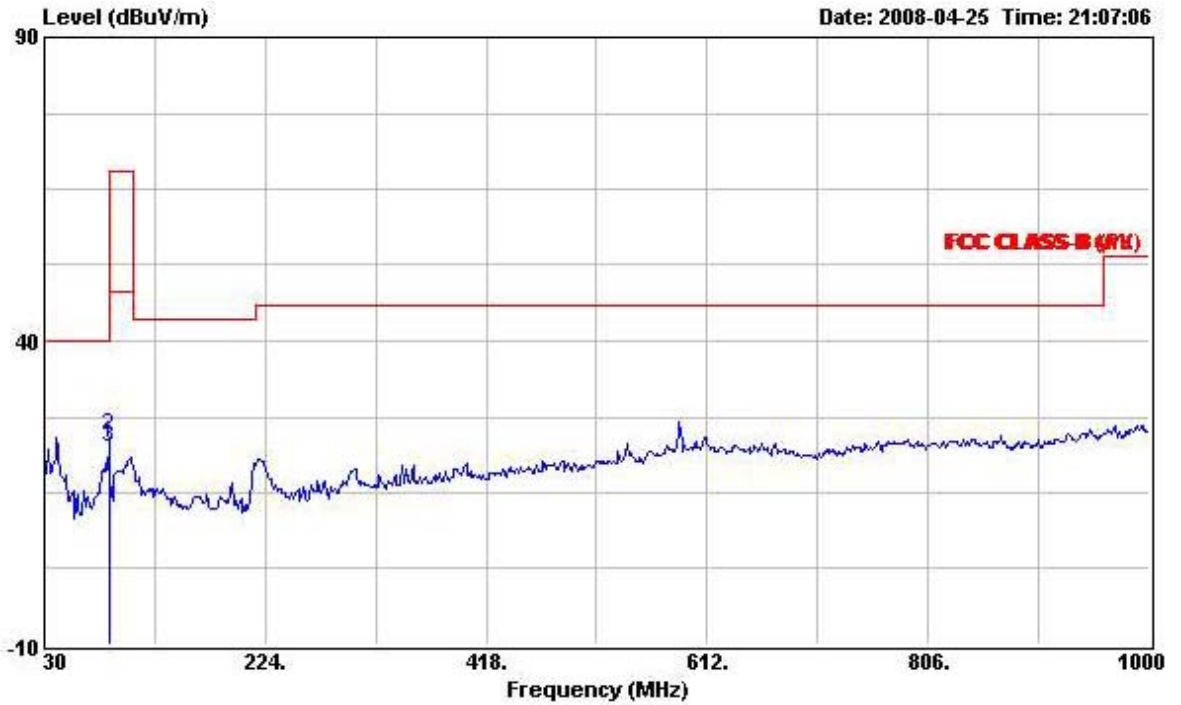
Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 EUT : SV5  
 Power :  
 model : FM 88M  
 Memo : CIVIC

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	88.000	18.96	-21.04	40.00	35.99	1.58	9.34	27.95	QP	220	161
2	88.060	19.65	-48.35	68.00	36.68	1.58	9.34	27.95	Peak	---	---
3	88.090	17.86	-30.14	48.00	34.89	1.58	9.34	27.95	Average	220	161

Vertical

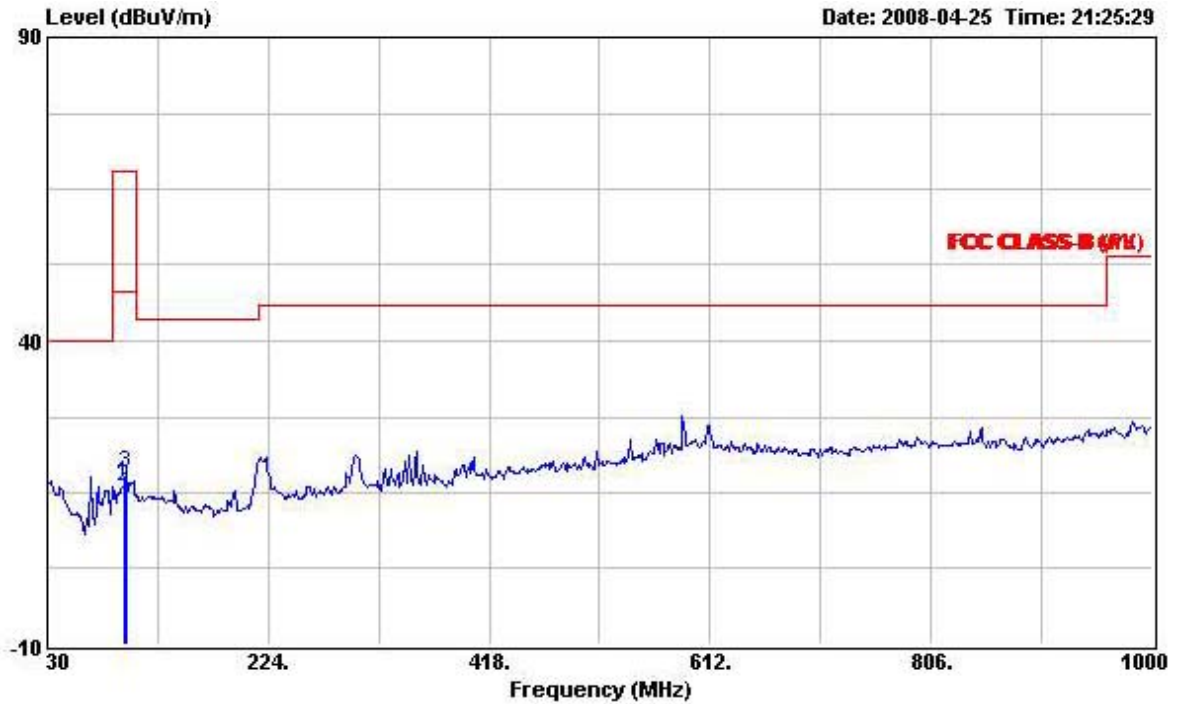


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 EUT : SV5  
 Power :  
 model : FM 88M  
 Memo : CIVIC

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	88.000	23.17	-16.83	40.00	40.20	1.58	9.34	27.95	QP	100	120
2	88.060	24.33	-43.67	68.00	41.36	1.58	9.34	27.95	Peak	---	---
3	88.090	22.62	-25.38	48.00	39.65	1.58	9.34	27.95	Average	100	120

Temperature	23°C	Humidity	60%
Configurations	98.1MHz / Mode 2		

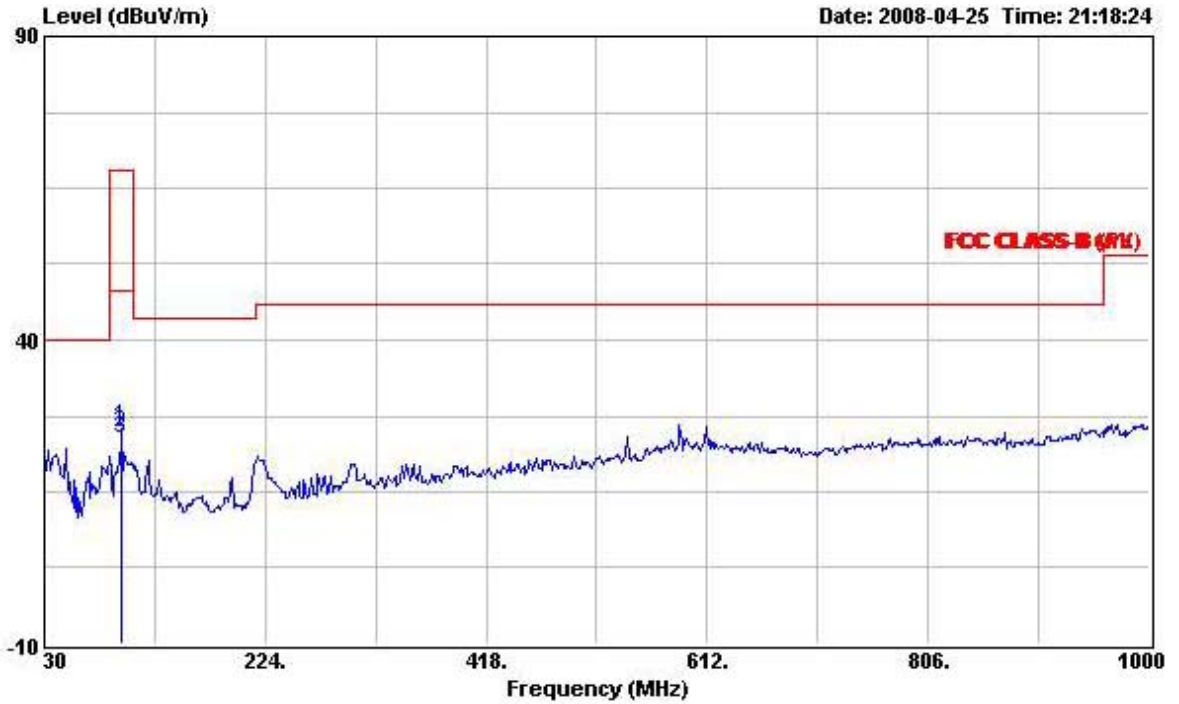
Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 EUT : SV5  
 Power :  
 model : FM 98.1M  
 Memo : CIVIC

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	98.100	16.73	-51.27	68.00	31.90	1.61	11.13	27.91	QP	250	10
2	98.100	15.85	-32.15	48.00	31.02	1.61	11.13	27.91	Average	250	10
3	98.870	18.20	-49.80	68.00	33.18	1.62	11.31	27.91	Peak	---	---

Vertical

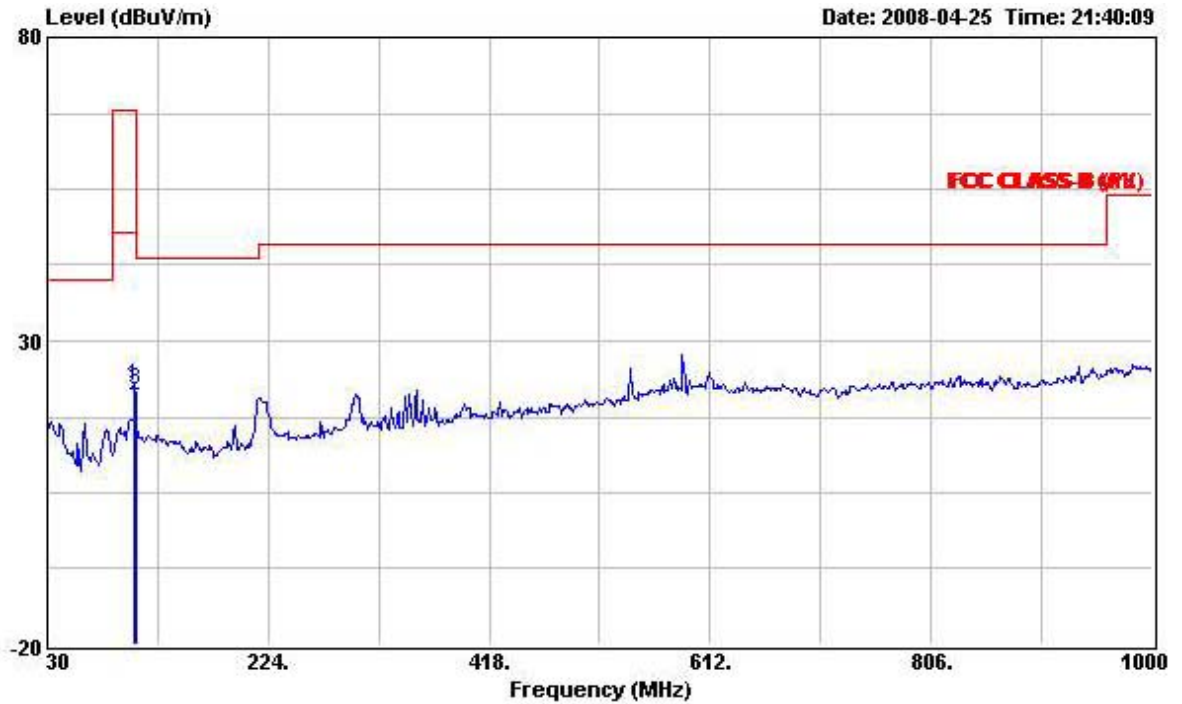


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 EUT : SV5  
 Power :  
 model : FM 98.1M  
 Memo : CIVIC

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	97.900	25.61	-42.39	68.00	40.78	1.61	11.13	27.91	Peak	---	---
2	97.900	24.72	-43.28	68.00	39.89	1.61	11.13	27.91	QP	100	209
3	97.900	23.82	-24.18	48.00	38.99	1.61	11.13	27.91	Average	100	209

Temperature	23°C	Humidity	60%
Configurations	107.9MHz / Mode 2		

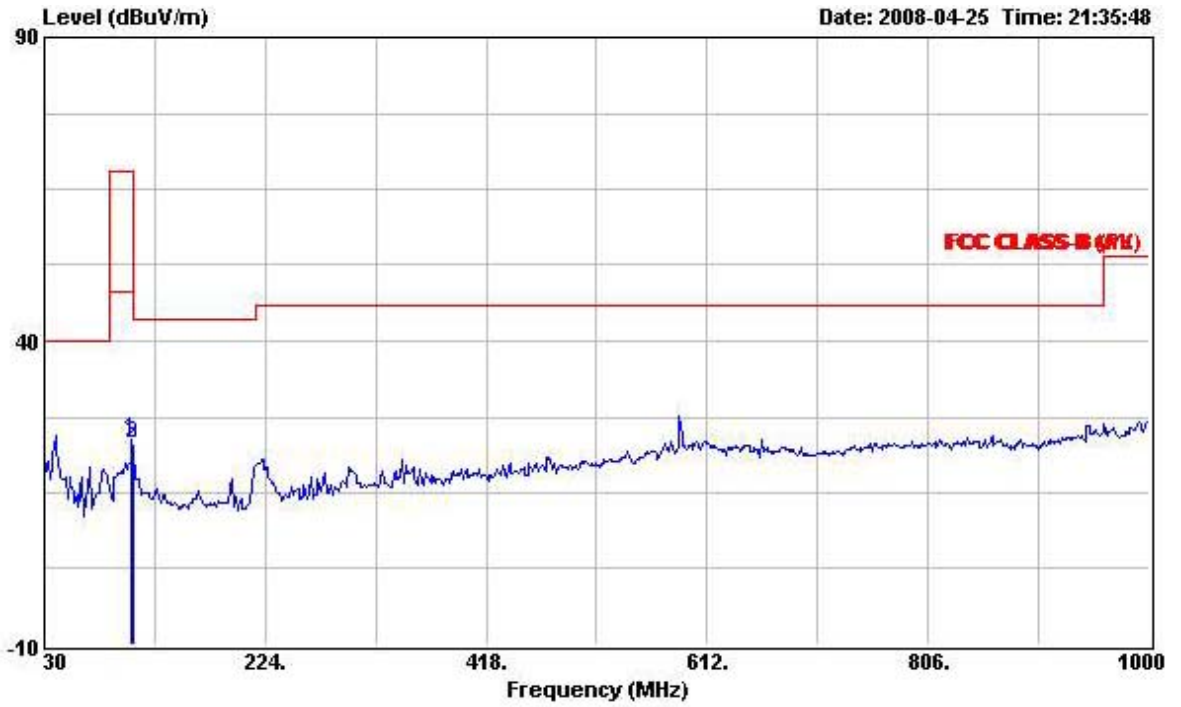
Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 EUT : SV5  
 Power :  
 model : FM 107.9M  
 Memo : CIVIC

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	106.630	22.49	-45.51	68.00	36.52	1.66	12.18	27.87	Peak	---	---
2	107.900	20.89	-27.11	48.00	34.80	1.67	12.28	27.86	Average	300	63
3	108.000	21.99	-21.51	43.50	35.90	1.67	12.28	27.86	QP	300	63

Vertical

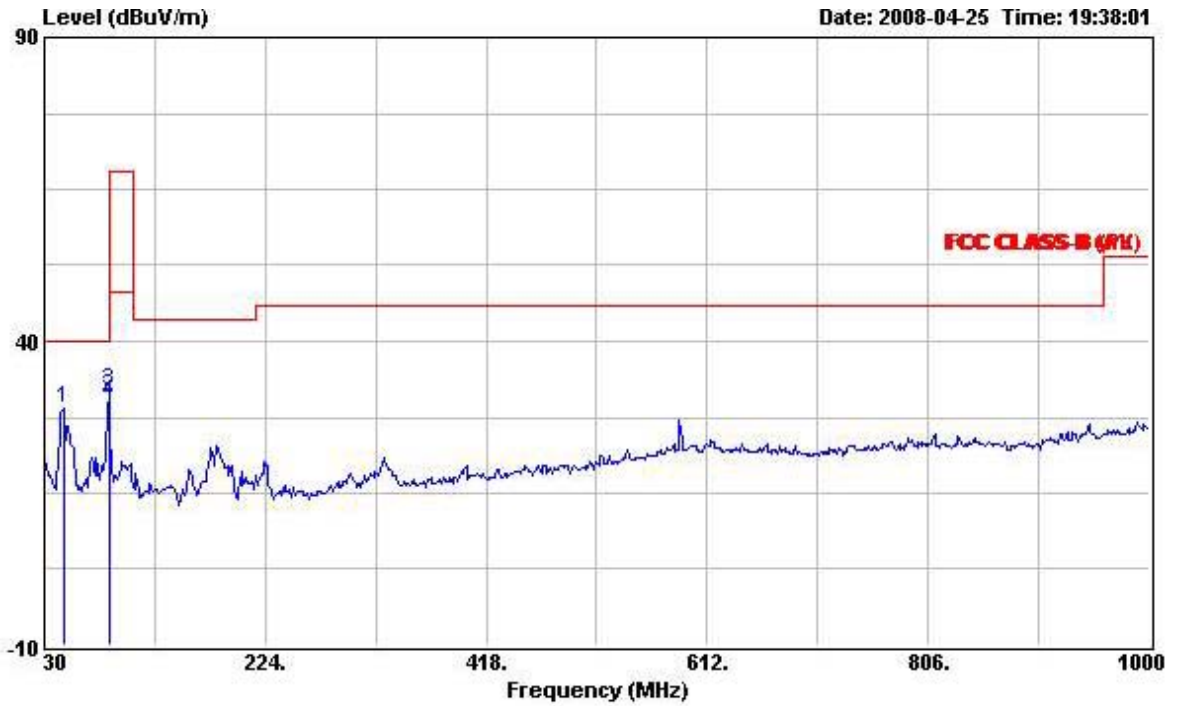


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 EUT : SV5  
 Power :  
 model : FM 107.9M  
 Memo : CIVIC

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	106.630	23.65	-44.35	68.00	37.68	1.66	12.18	27.87	Peak	---	---
2	107.870	23.07	-24.93	48.00	36.98	1.67	12.28	27.86	Average	100	164
3	108.000	23.09	-20.41	43.50	37.00	1.67	12.28	27.86	QP	100	164

Temperature	23°C	Humidity	60%
Configurations	88.1MHz / Mode 3		

Horizontal

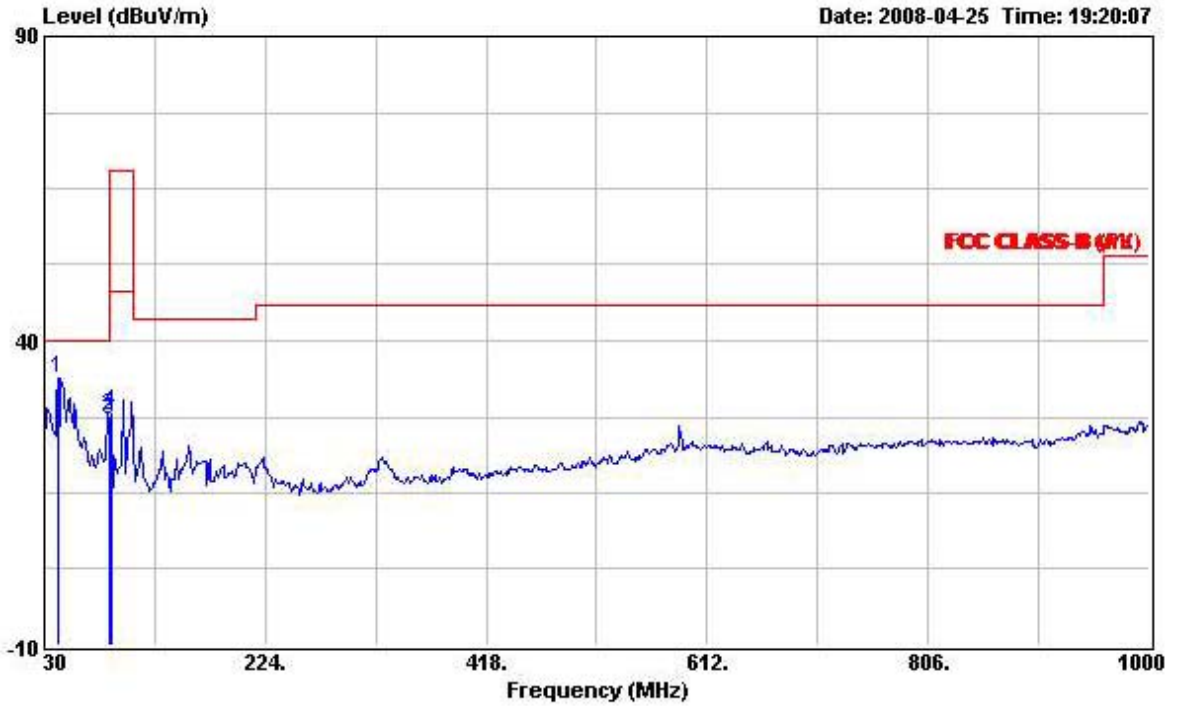


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 EUT : SV5  
 Power :  
 model : FM 88.1M  
 Memo : SAVRIN  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBUV/m	dB	dBUV/m	dBUV	dB	dB	dB		cm	deg
1	47.460	29.08	-10.92	40.00	44.94	1.19	11.05	28.10	Peak	---	---
2	88.000	30.98	-9.02	40.00	48.01	1.58	9.34	27.95	QP	192	276
3	88.060	31.86	-36.14	68.00	48.89	1.58	9.34	27.95	Peak	---	---
4	88.090	30.09	-17.91	48.00	47.12	1.58	9.34	27.95	Average	192	276



Vertical

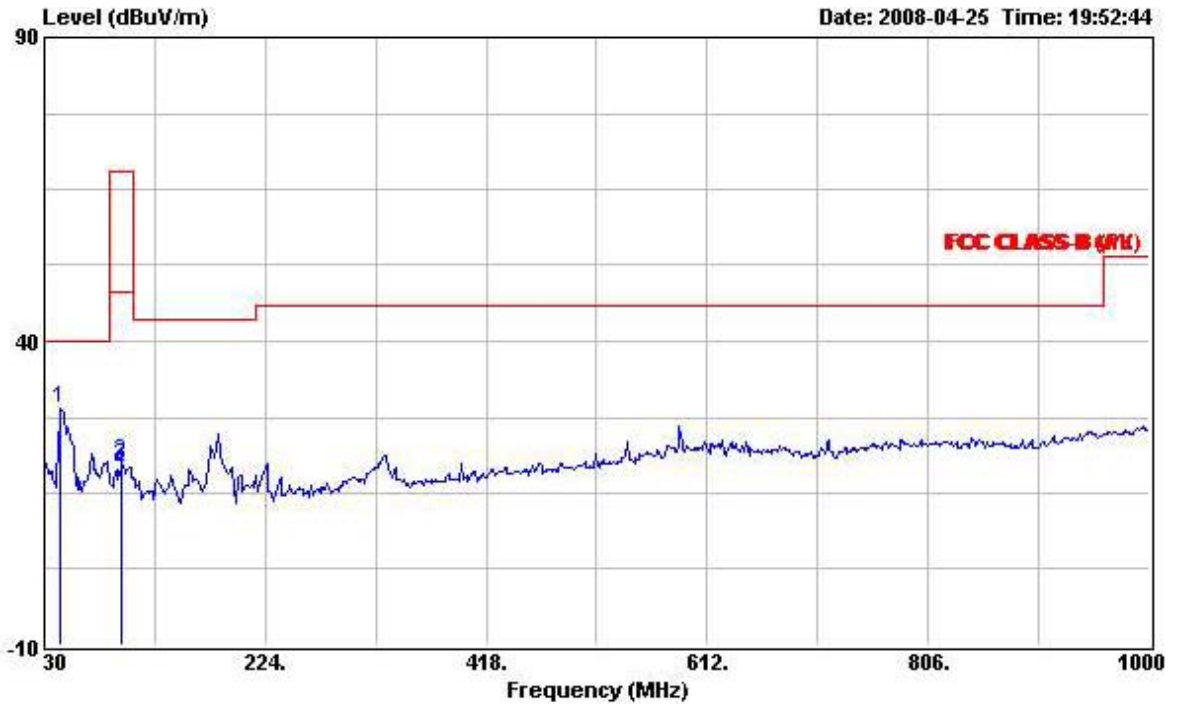


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 EUT : SV5  
 Power :  
 model : FM 88.1M  
 Memo : SAVRIN  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	41.640	33.93	-6.07	40.00	47.76	1.16	13.11	28.10	Peak	---	---
2	88.000	27.73	-12.27	40.00	44.76	1.58	9.34	27.95	QP	100	289
3	88.090	26.87	-21.13	48.00	43.90	1.58	9.34	27.95	Average	100	289
4	88.600	28.37	-39.63	68.00	45.40	1.58	9.34	27.95	Peak	---	---

Temperature	23°C	Humidity	60%
Configurations	98.1MHz / Mode 3		

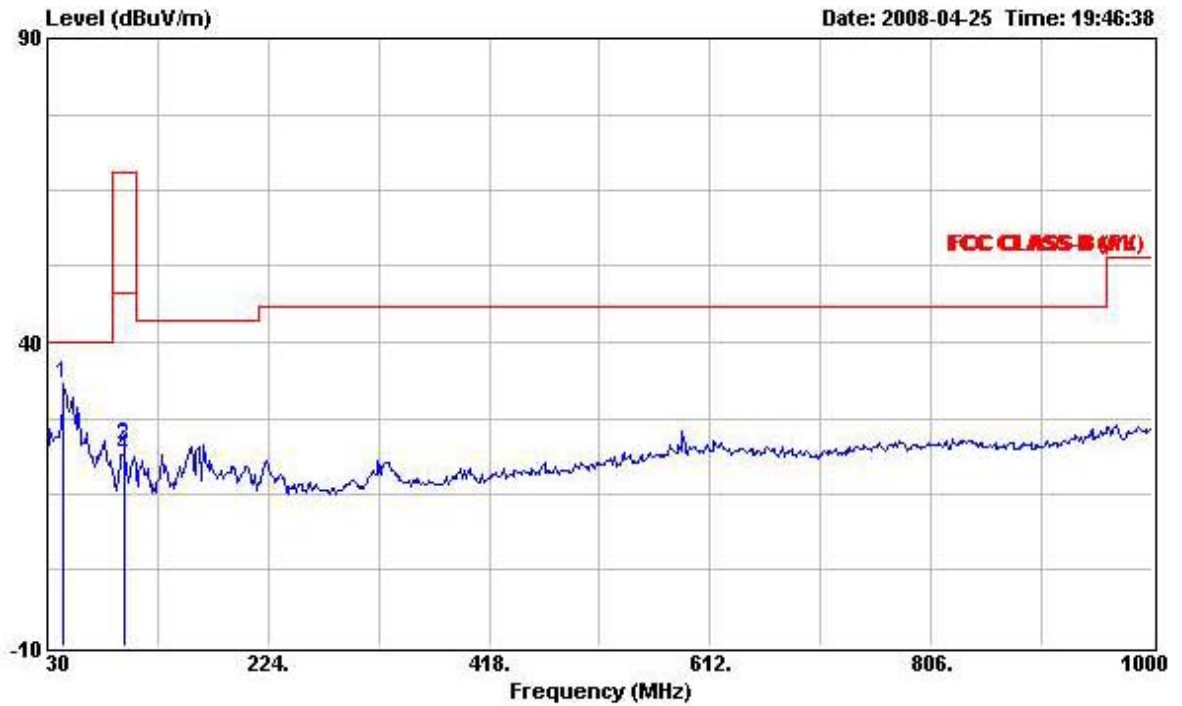
Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 EUT : SV5  
 Power :  
 model : FM 98.1M  
 Memo : SAVRIN  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBUV/m	dB	dBUV/m	dBUV	dB	dB	dB		cm	deg
1	44.550	28.88	-11.12	40.00	43.51	1.17	12.30	28.10	Peak	---	---
2	97.900	20.14	-47.86	68.00	35.31	1.61	11.13	27.91	Peak	---	---
3	98.090	19.43	-48.57	68.00	34.60	1.61	11.13	27.91	QP	220	42
4	98.090	18.63	-29.37	48.00	33.80	1.61	11.13	27.91	Average	220	42

Vertical

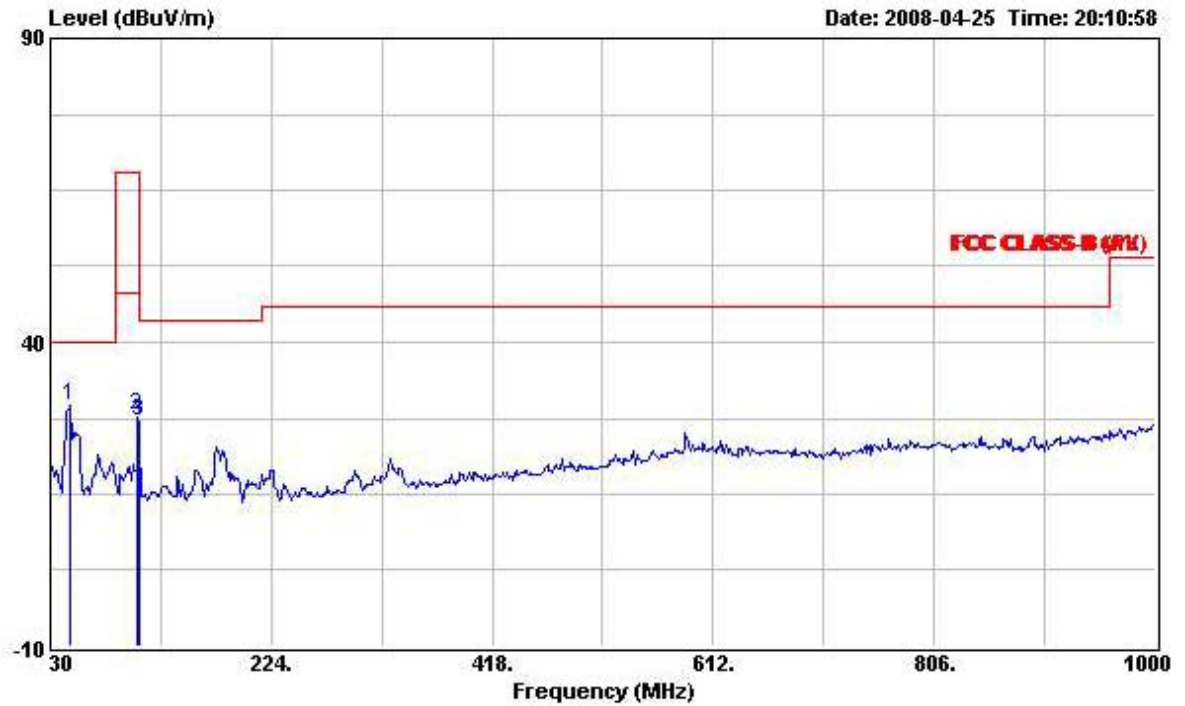


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 EUT : SV5  
 Power :  
 model : FM 98.1M  
 Memo : SAVRIN  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	44.550	33.04	-6.96	40.00	47.67	1.17	12.30	28.10	Peak	---	---
2	97.900	23.06	-44.94	68.00	38.23	1.61	11.13	27.91	Peak	---	---
3	98.100	22.86	-45.14	68.00	38.03	1.61	11.13	27.91	QP	100	10
4	98.100	21.26	-26.74	48.00	36.43	1.61	11.13	27.91	Average	100	10

Temperature	23°C	Humidity	60%
Configurations	107.9MHz / Mode 3		

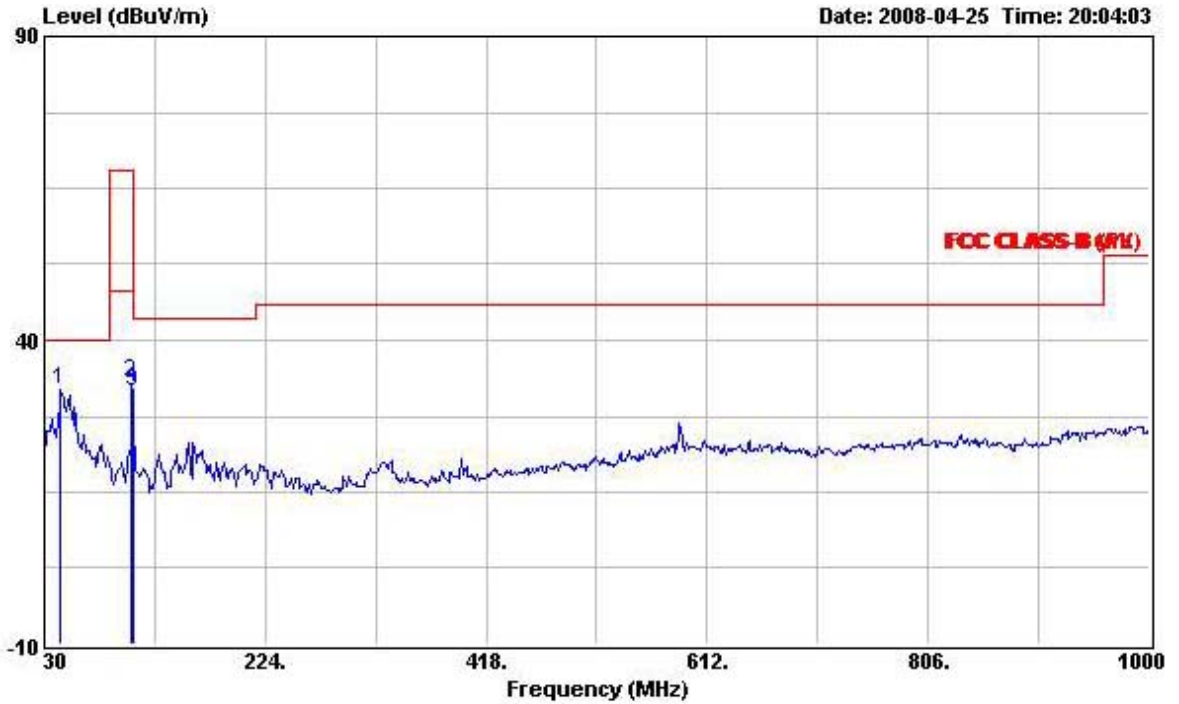
Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 EUT : SV5  
 Power :  
 model : FM 107.9M  
 Memo : SAVRIN  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	47.460	29.46	-10.54	40.00	45.32	1.19	11.05	28.10	Peak	---	---
2	106.630	28.08	-39.92	68.00	42.11	1.66	12.18	27.87	Peak	---	---
3	107.900	26.86	-21.14	48.00	40.77	1.67	12.28	27.86	Average	215	325
4	108.000	27.48	-16.02	43.50	41.39	1.67	12.28	27.86	QP	215	325

Vertical



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 EUT : SV5  
 Power :  
 model : FM 107.9M  
 Memo : SAVRIN  
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	44.550	32.04	-7.96	40.00	46.67	1.17	12.30	28.10	Peak	---	---
2	106.630	33.10	-34.90	68.00	47.13	1.66	12.18	27.87	Peak	---	---
3	107.890	31.53	-16.47	48.00	45.44	1.67	12.28	27.86	Average	108	288
4	108.000	32.12	-11.38	43.50	46.03	1.67	12.28	27.86	QP	108	288

### 3.2. Photographs of Radiated Emissions Test Configuration

#### Mode 1





Mode 2







Mode 3

