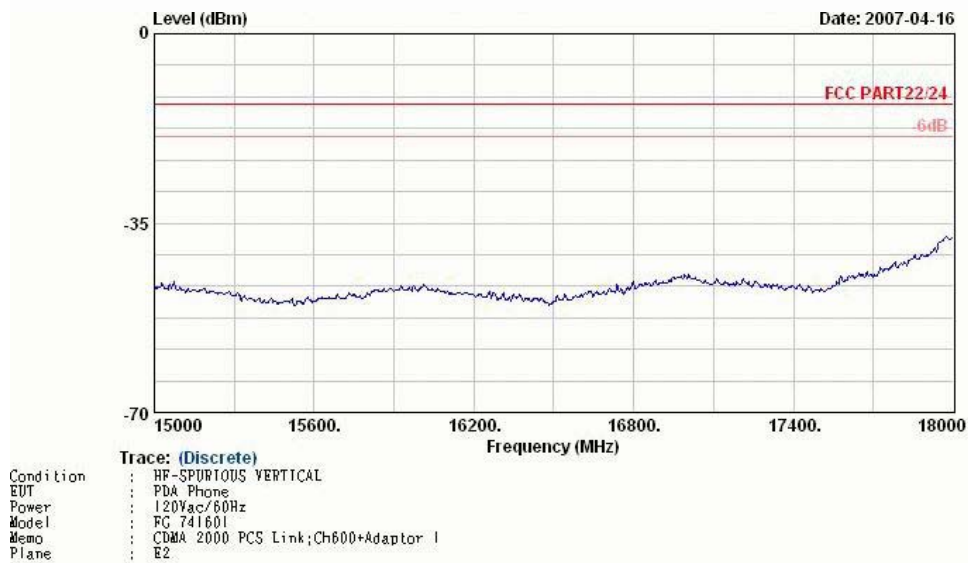
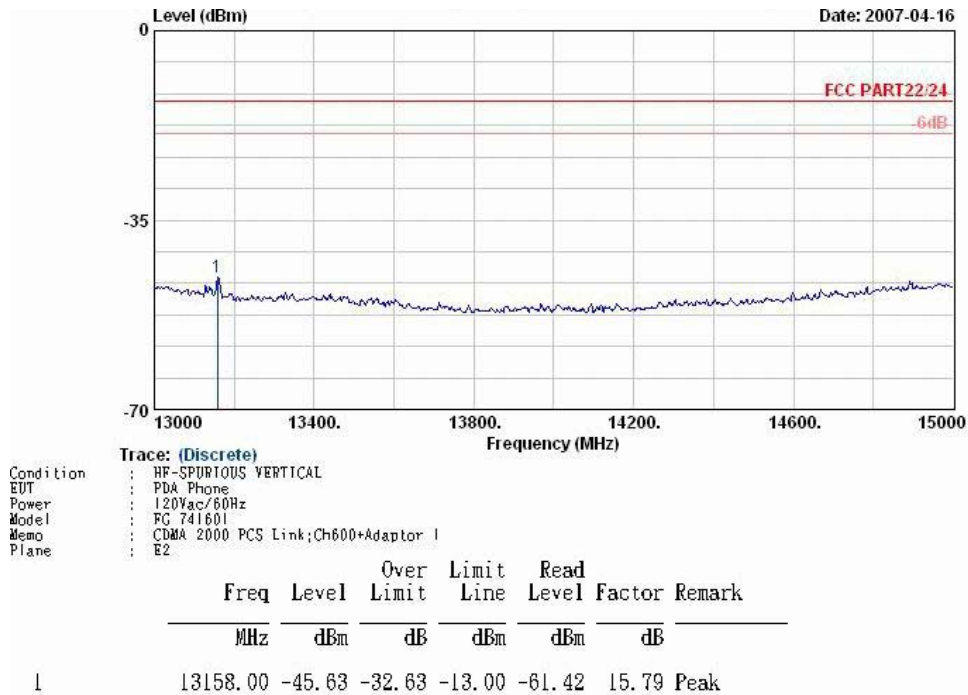


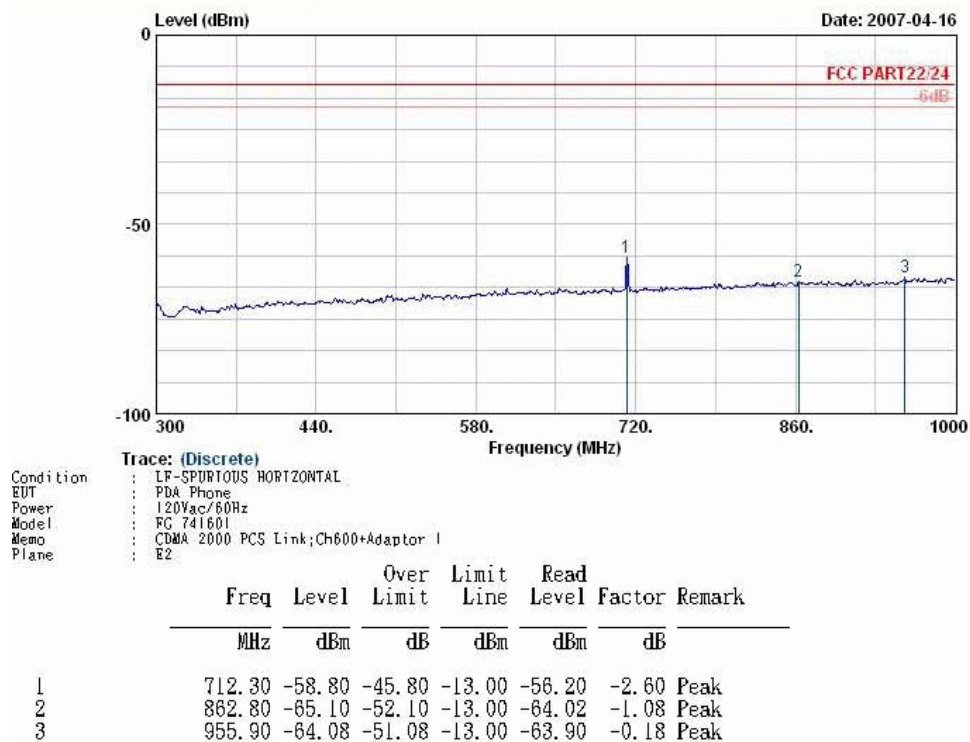
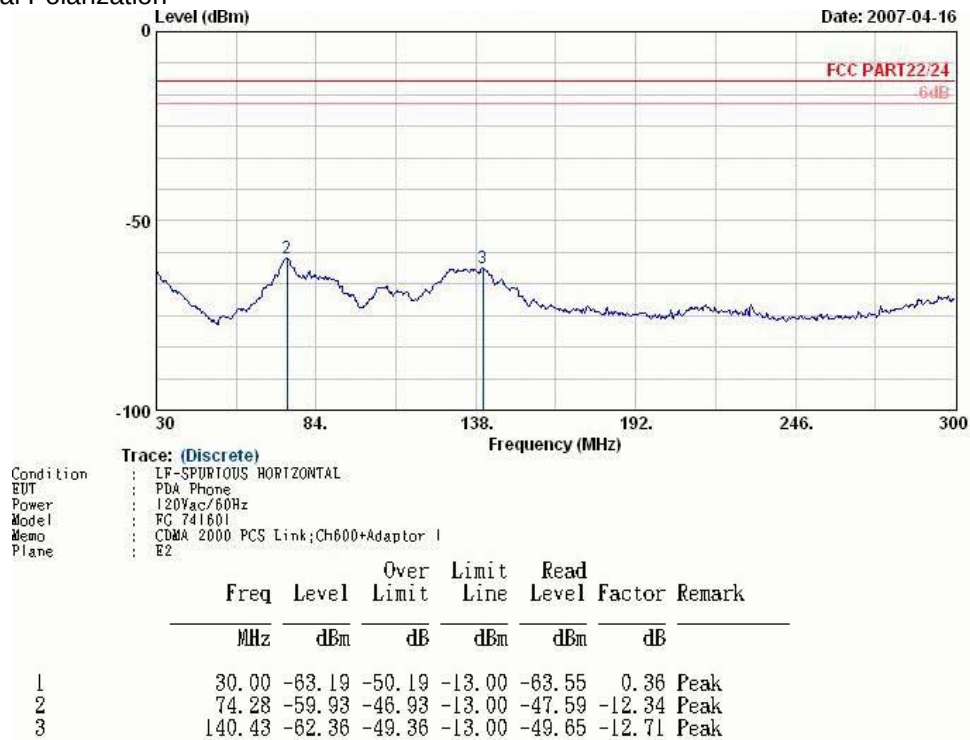


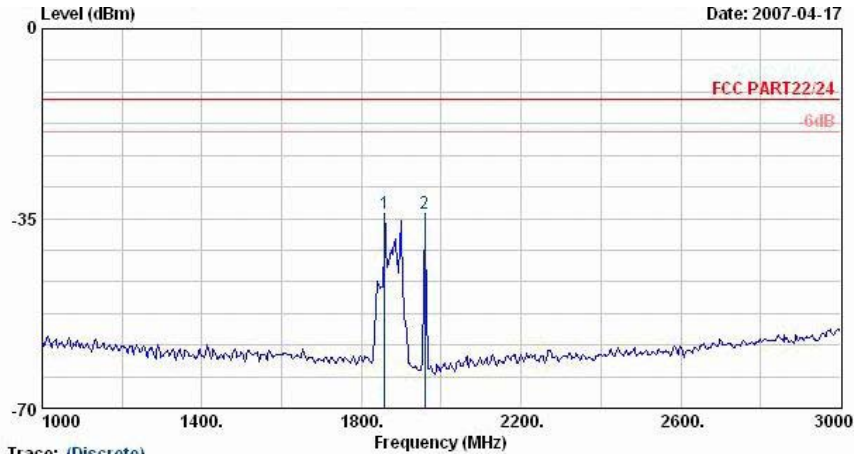
Remark : There is no more obvious emission except the listings above.



4.6.5.4 Mode 4

Horizontal Polarization



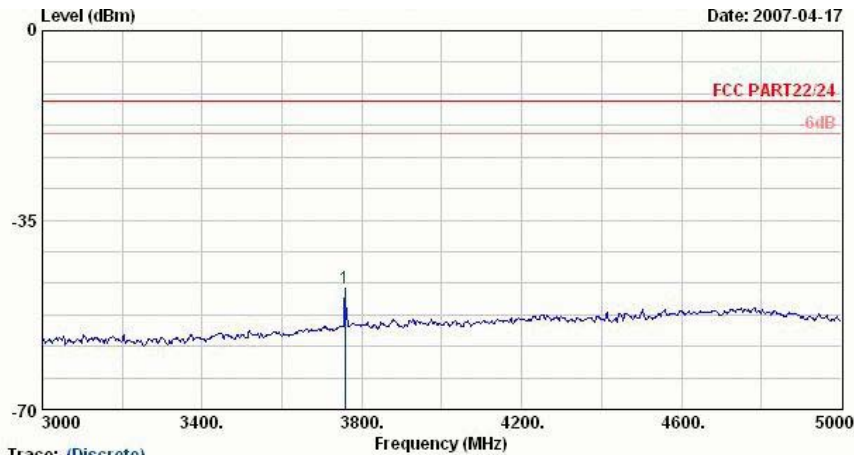


Trace: (Discrete)
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 PCS Link;Ch600+Adaptor I
Plane : E2

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1 @	1858.00	-33.97			-33.46	-0.51 Peak
2 @	1958.00	-34.09			-32.98	-1.11 Peak

Remark:

1. #1: MS Signal
2. #2: BS Signal



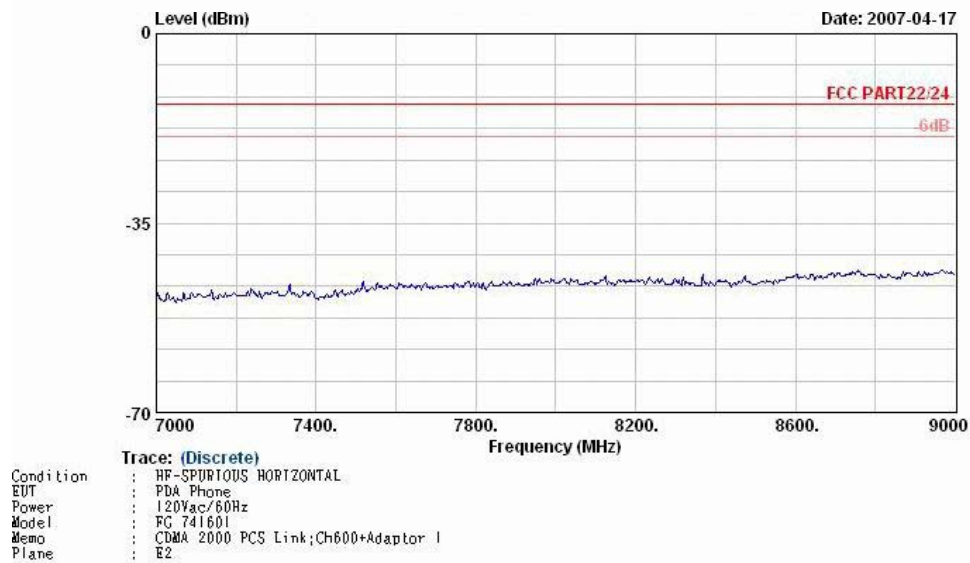
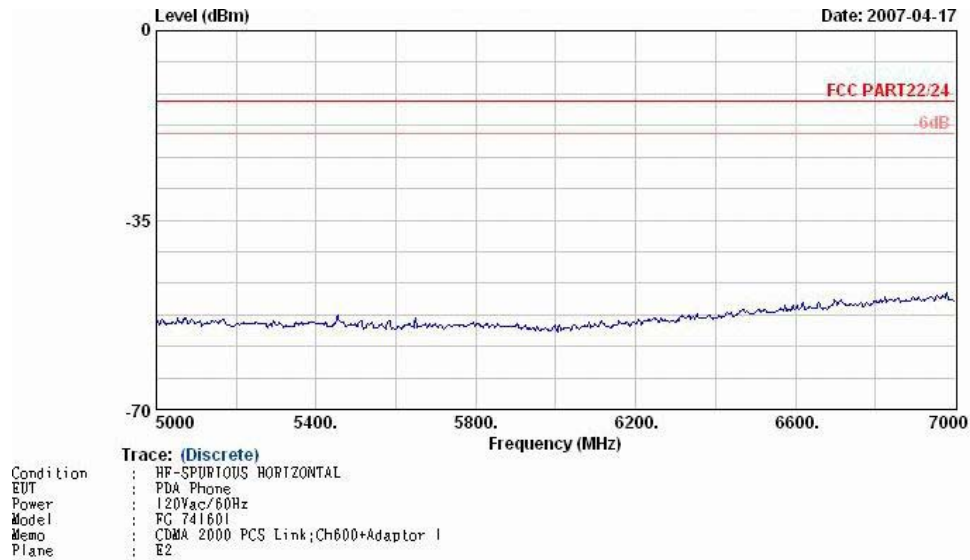
Trace: (Discrete)
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 PCS Link;Ch600+Adaptor I
Plane : E2

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1	3758.00	-47.68	-34.68	-13.00	-55.60	7.92 Peak



FCC/IC TEST REPORT

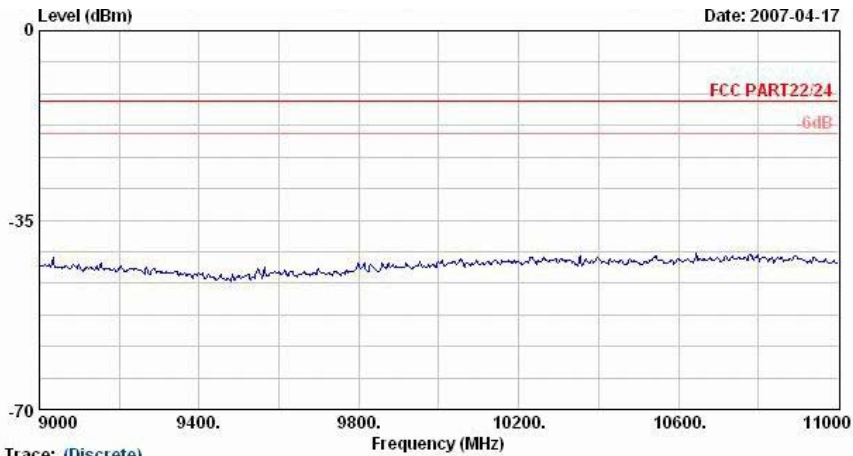
Report No. : FG741601



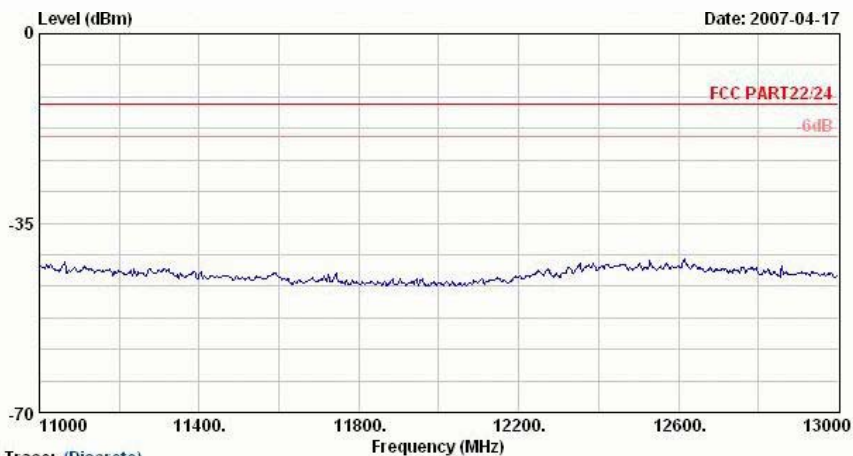


FCC/IC TEST REPORT

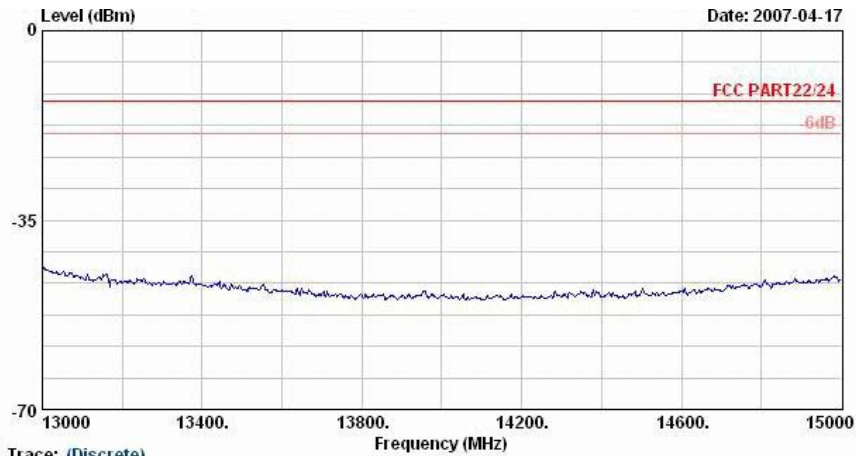
Report No. : FG741601



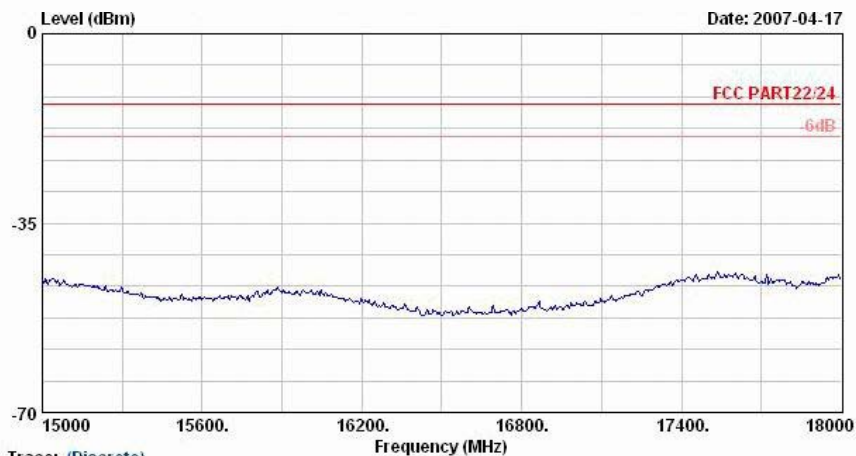
Trace: (Discrete)
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 PCS Link;Ch600+Adaptor I
Plane : E2



Trace: (Discrete)
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 PCS Link;Ch600+Adaptor I
Plane : E2



Trace: (Discrete)
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 PCS Link;Ch600+Adaptor I
Plane : E2

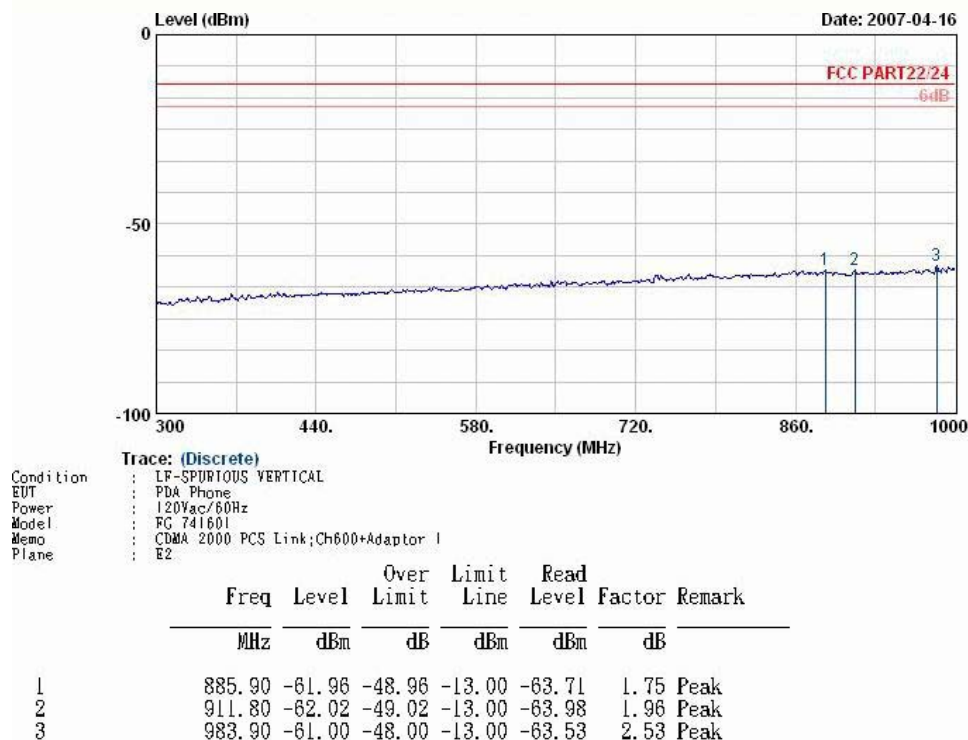
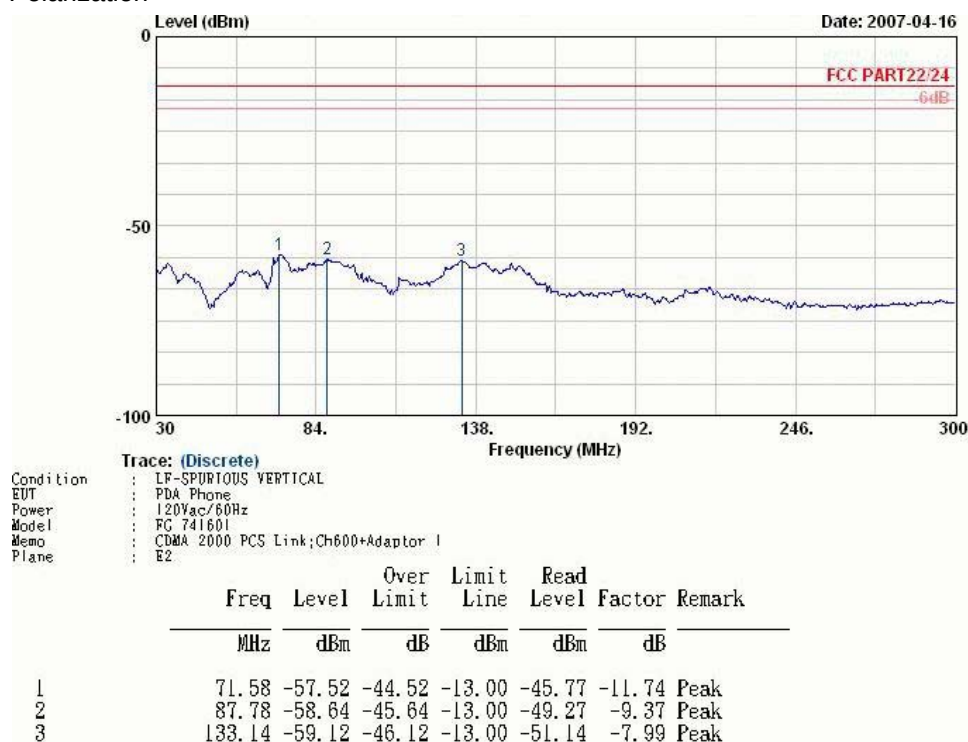


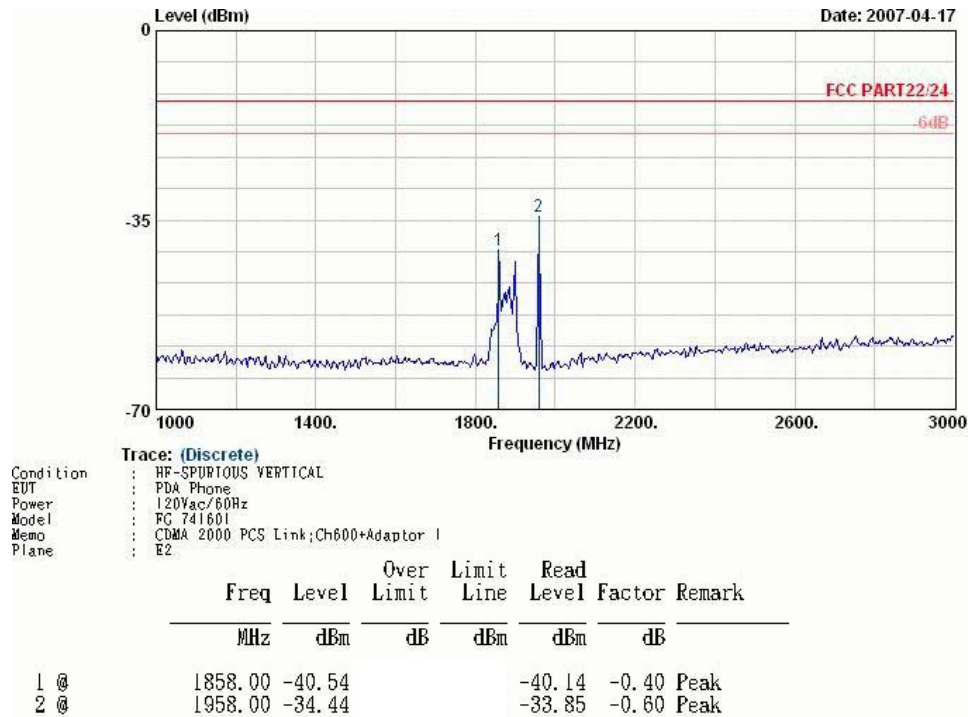
Trace: (Discrete)
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 PCS Link;Ch600+Adaptor I
Plane : E2

Remark: There's no more obvious spurious emission except the listings above.



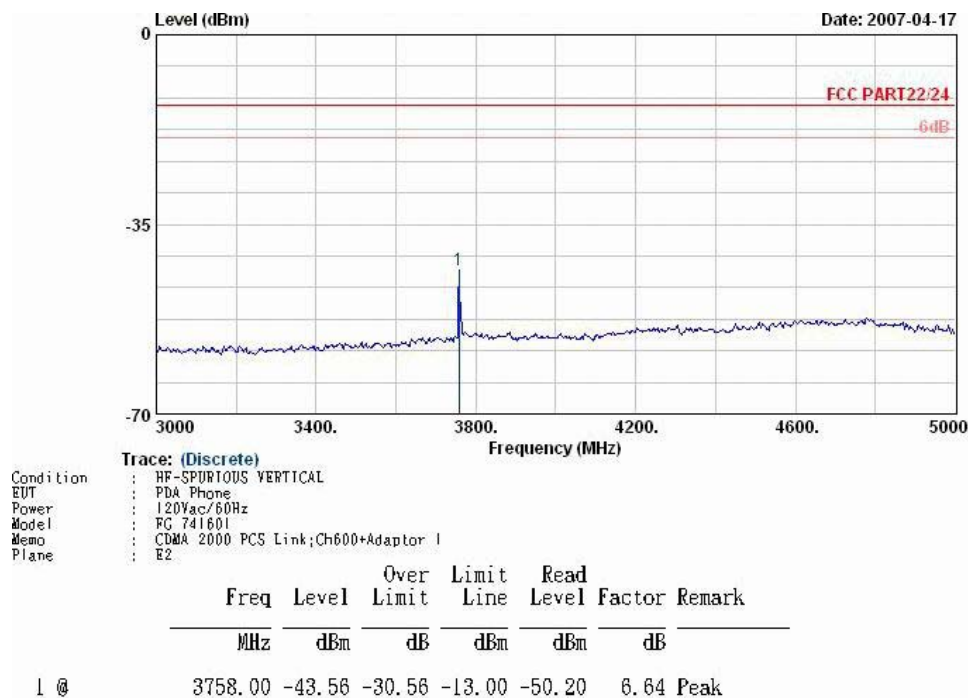
Vertical Polarization

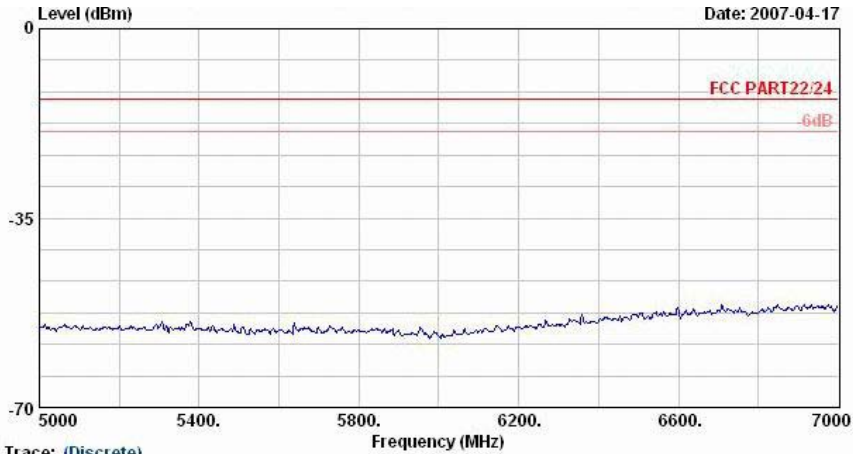




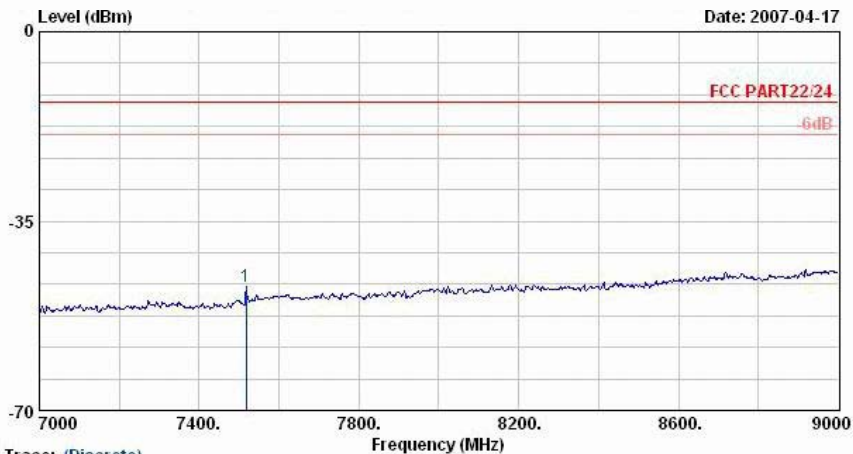
Remark:

1. #1: MS Signal
2. #2: BS Signal



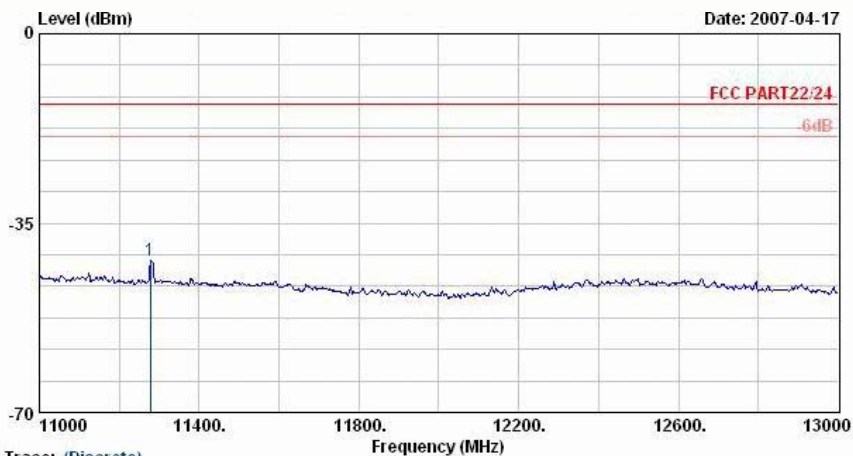
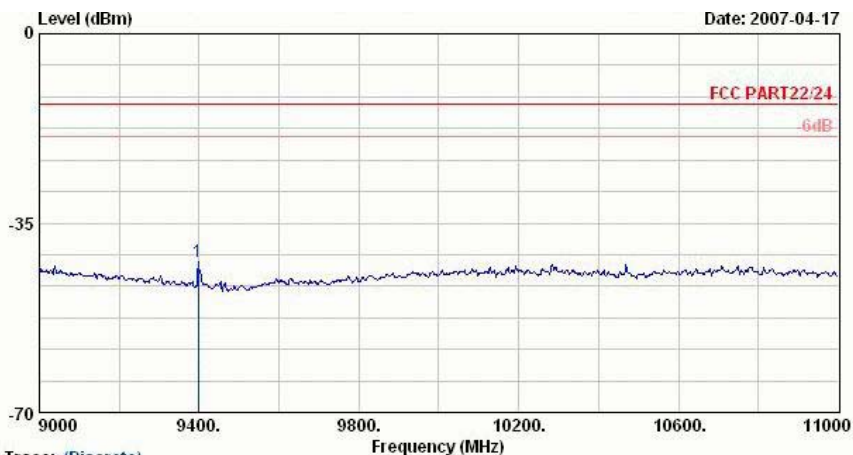


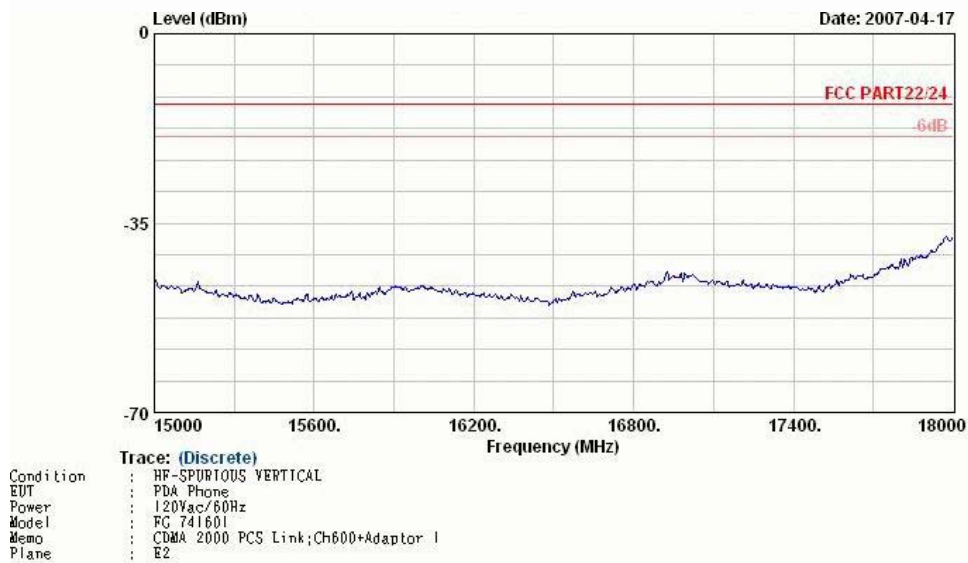
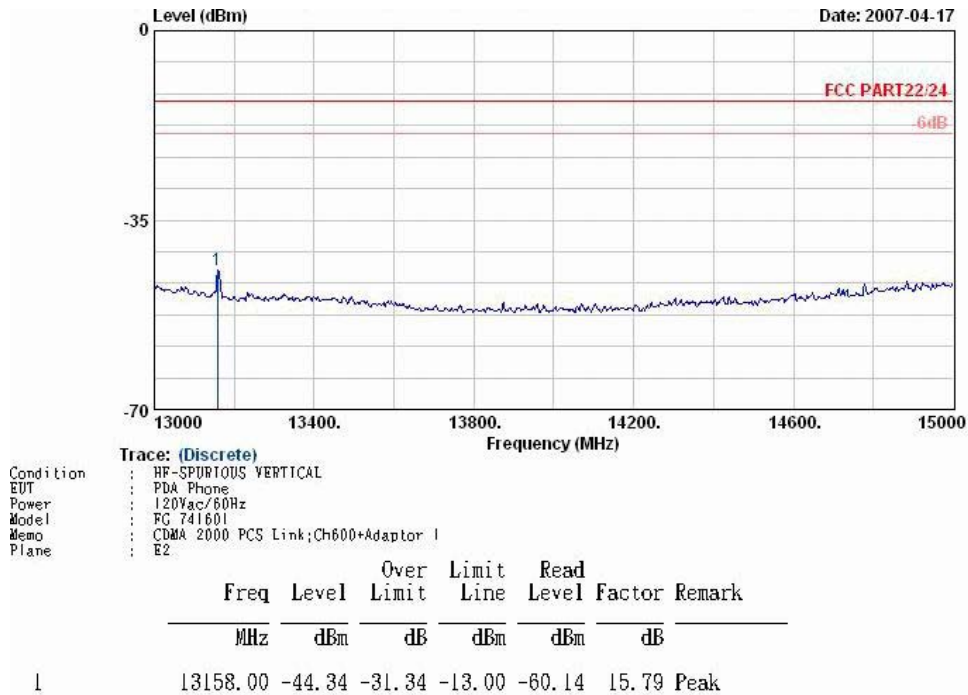
Trace: (Discrete)
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 PCS Link;Ch600+Adaptor I
Plane : E2



Trace: (Discrete)
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 PCS Link;Ch600+Adaptor I
Plane : E2

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	7518.00	-47.11	-34.11	-13.00	-60.48	13.37 Peak



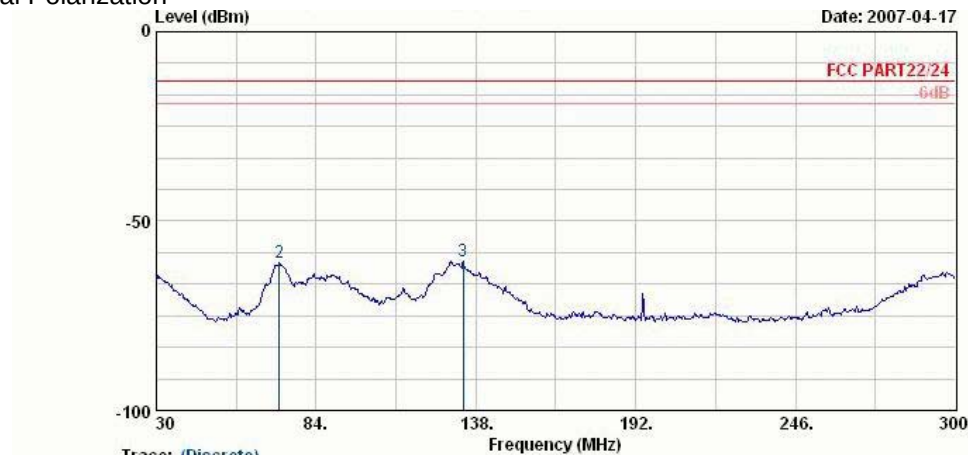


Remark : There is no more obvious emission except the listings above.



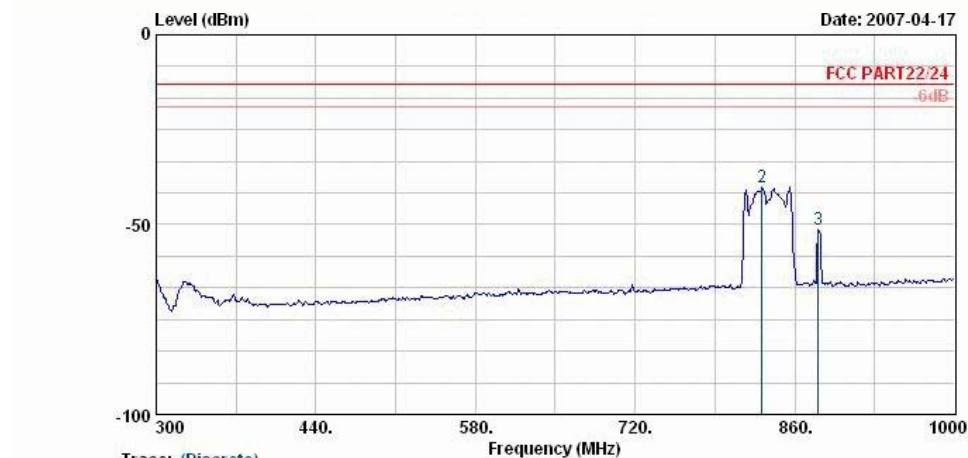
4.6.5.5 Mode 5

Horizontal Polarization



Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 Cellular Link;Ch384+BT Tx_CH39
Plane : +Adaptor 1
E2

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1	30.00	-63.78	-50.78	-13.00	-64.14	0.36	Peak
2	71.58	-61.14	-48.14	-13.00	-48.79	-12.35	Peak
3	133.68	-60.54	-47.54	-13.00	-47.91	-12.63	Peak

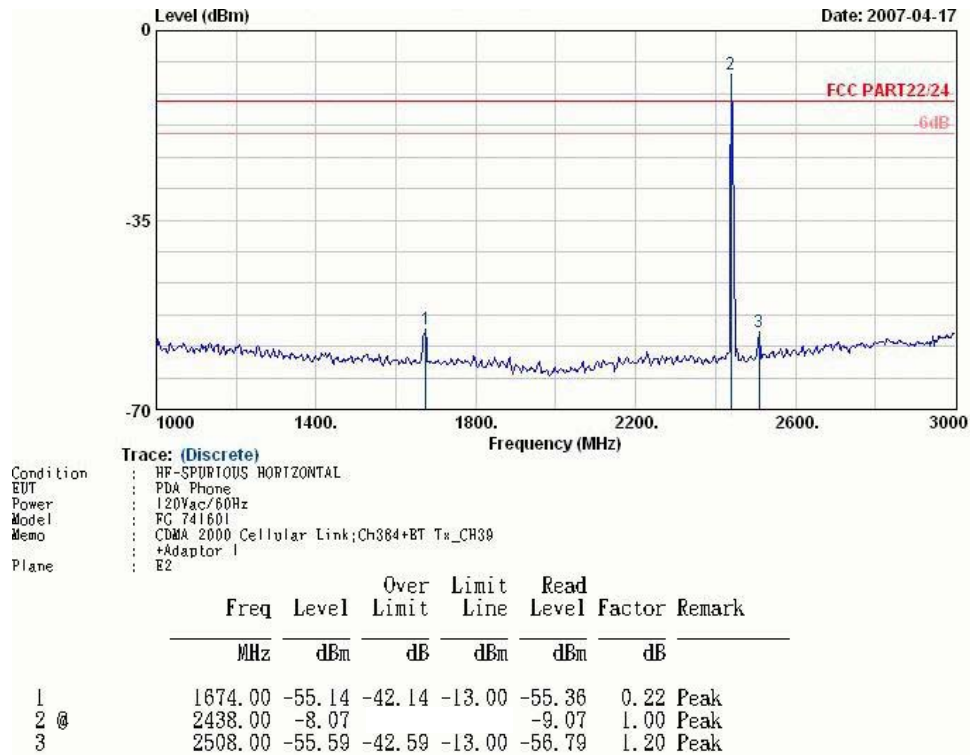


Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 Cellular Link;Ch384+BT Tx_CH39
Plane : +Adaptor 1
E2

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1	300.00	-64.23	-51.23	-13.00	-54.29	-9.95	Peak
2	831.30	-40.06			-38.67	-1.39	Peak
3	880.30	-51.17			-50.26	-0.91	Peak

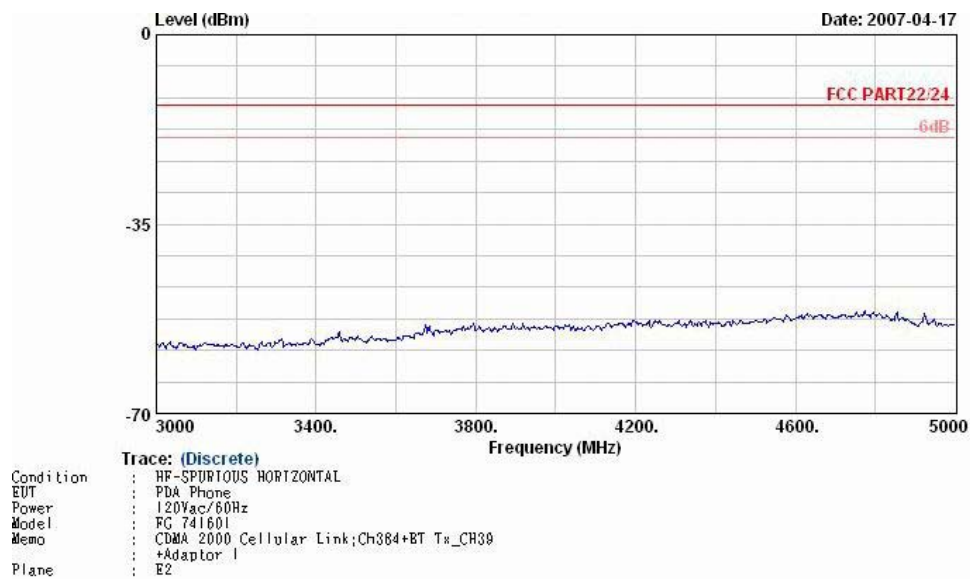
Remark:

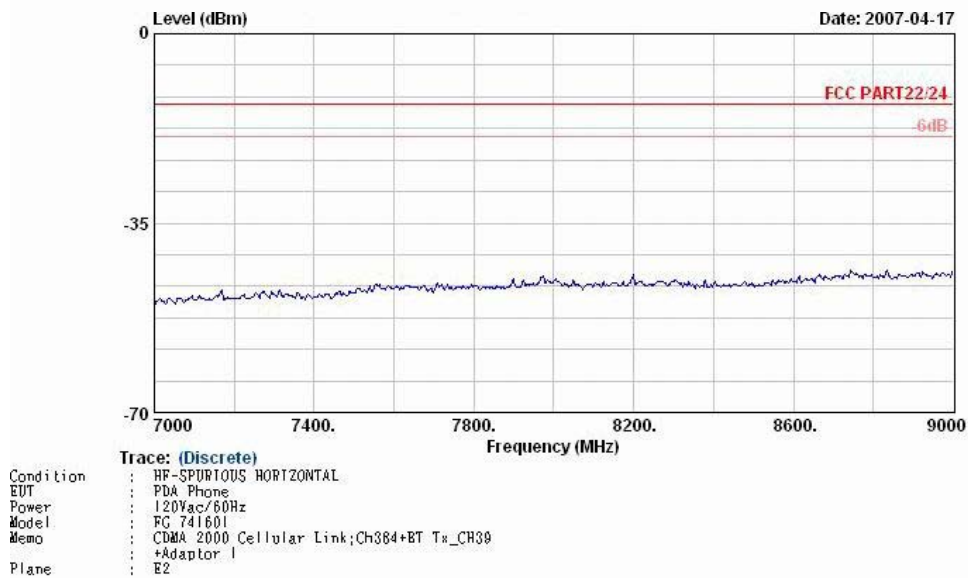
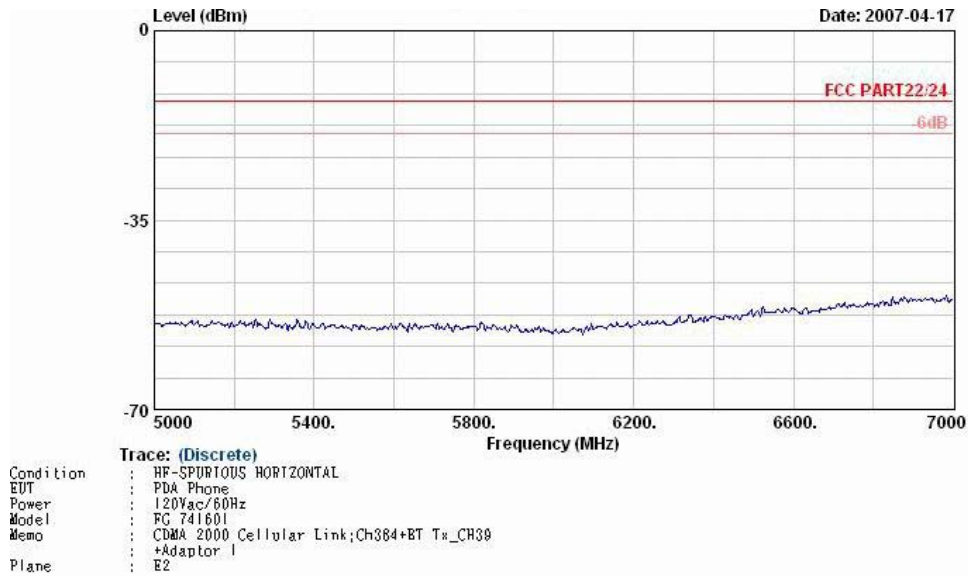
1. #2: MS Signal
2. #3: BS Signal



Remark:

1. #2: BT Signal

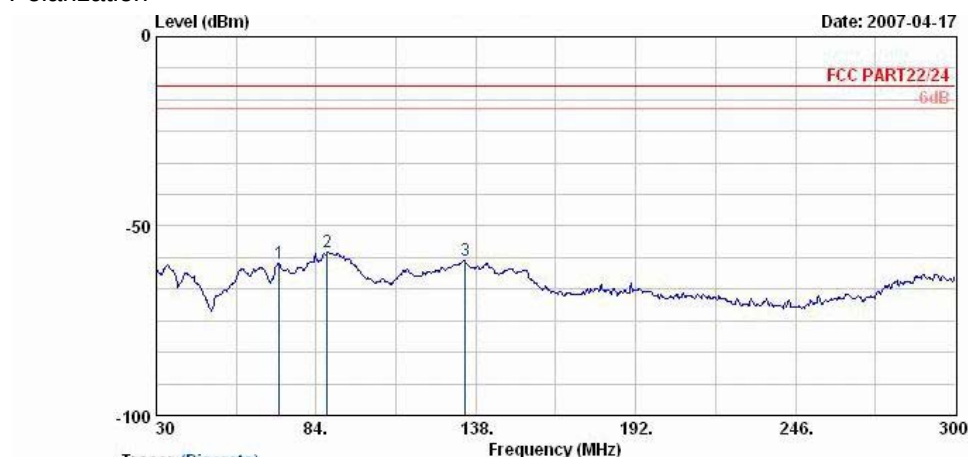




Remark: There's no more obvious spurious emission except the listings above.

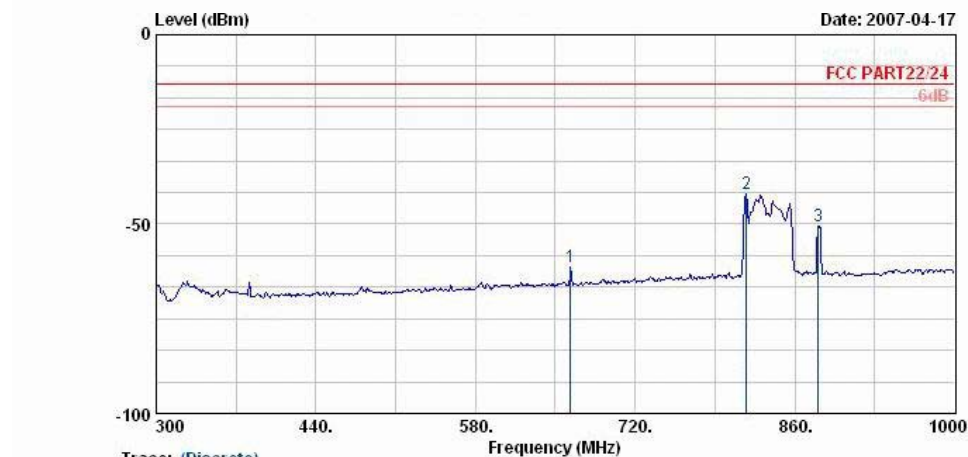


Vertical Polarization



Trace: (Discrete)
Condition : LF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 Cellular Link;Ch384+BT Tx_CH39
+Adaptor I
Plane : E2

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1	71.58	-59.76	-46.76	-13.00	-48.01	-11.74 Peak
2	87.78	-56.76	-43.76	-13.00	-47.40	-9.37 Peak
3	134.49	-59.23	-46.23	-13.00	-51.22	-8.00 Peak

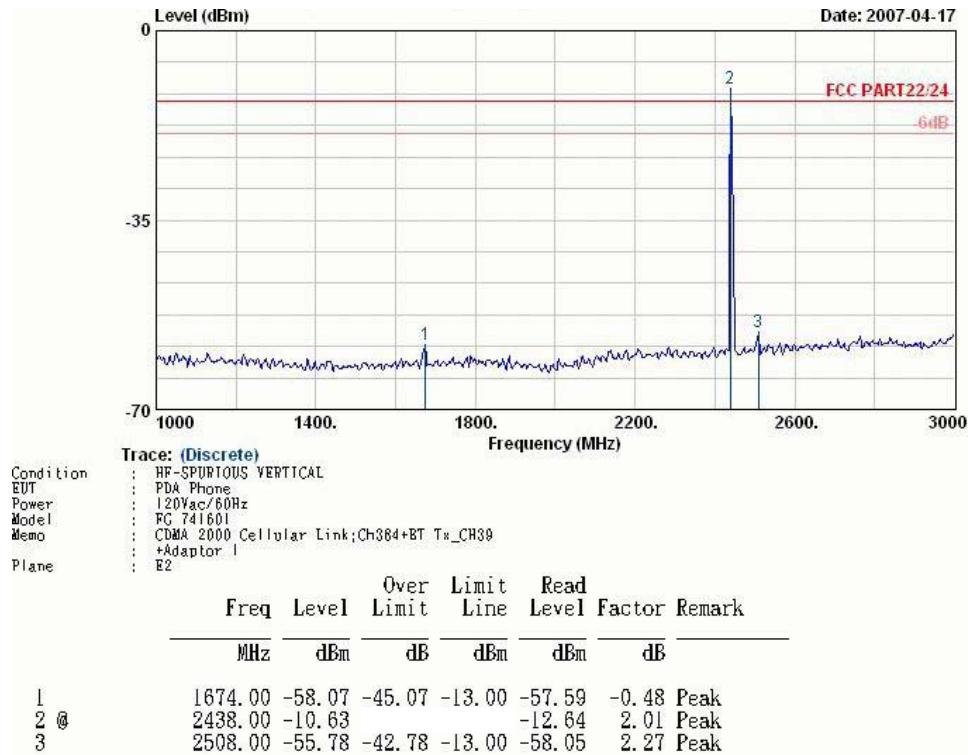


Trace: (Discrete)
Condition : LF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA 2000 Cellular Link;Ch384+BT Tx_CH39
+Adaptor I
Plane : E2

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1	663.30	-61.20	-48.20	-13.00	-60.22	-0.98 Peak
2	817.30	-42.05			-43.26	1.21 Peak
3	880.30	-50.55			-52.26	1.71 Peak

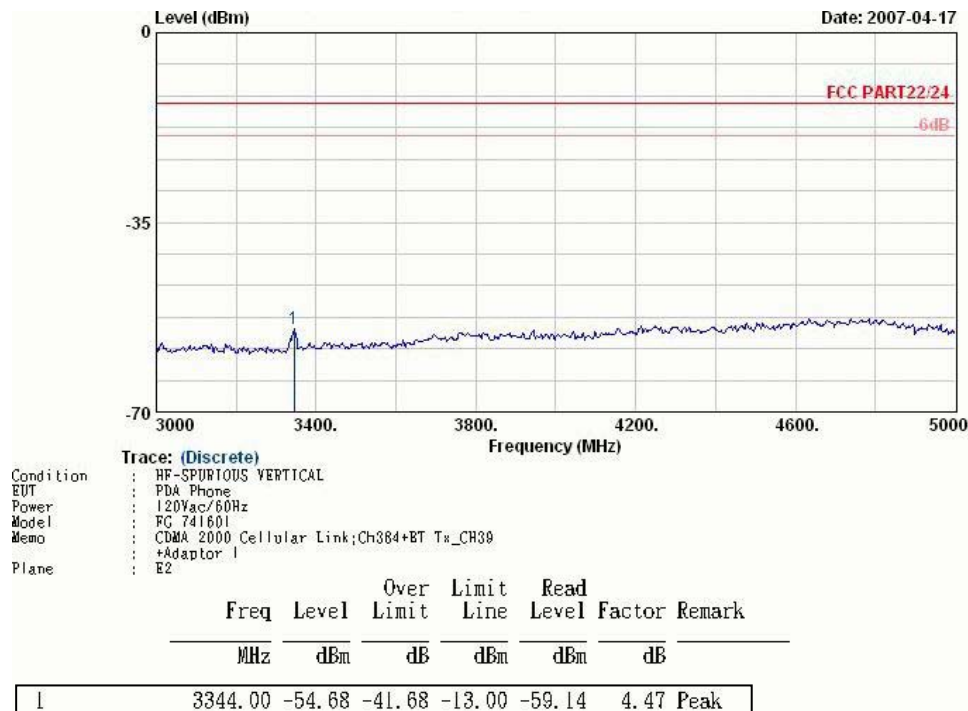
Remark:

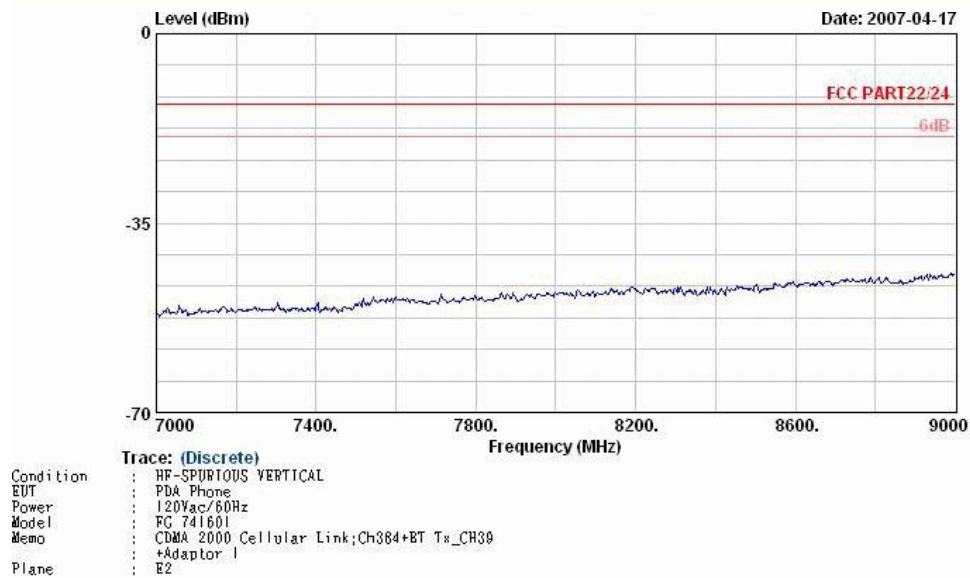
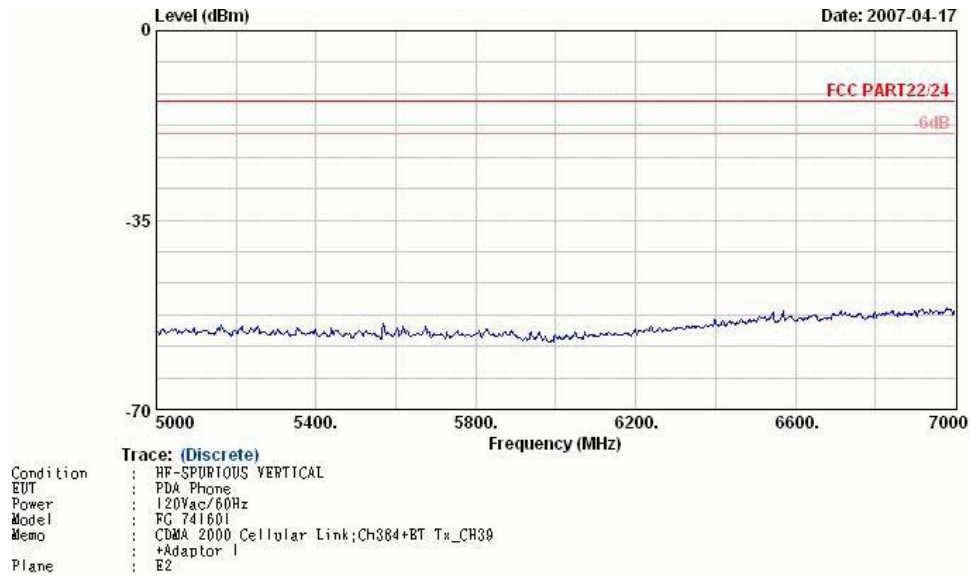
1. #2: MS Signal
2. #3: BS Signal



Remark:

1. #2: BT Signal



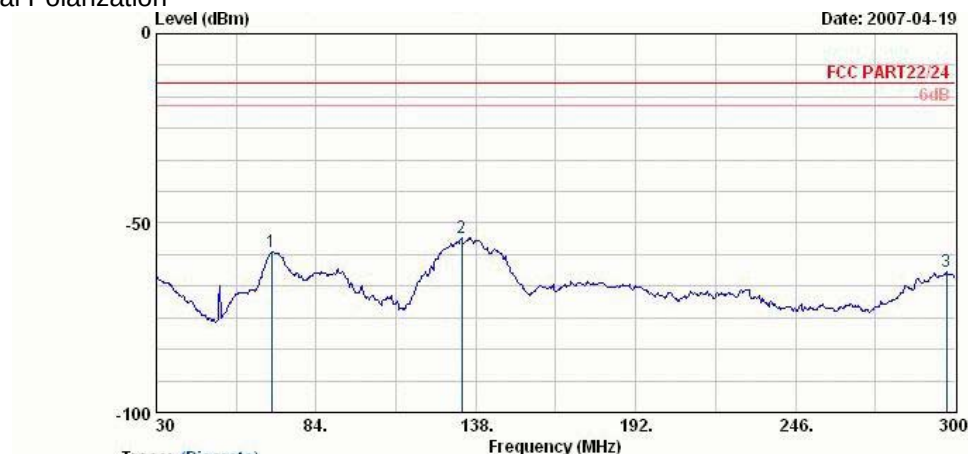


Remark : There is no more obvious emission except the listings above.



4.6.5.6 Mode 6

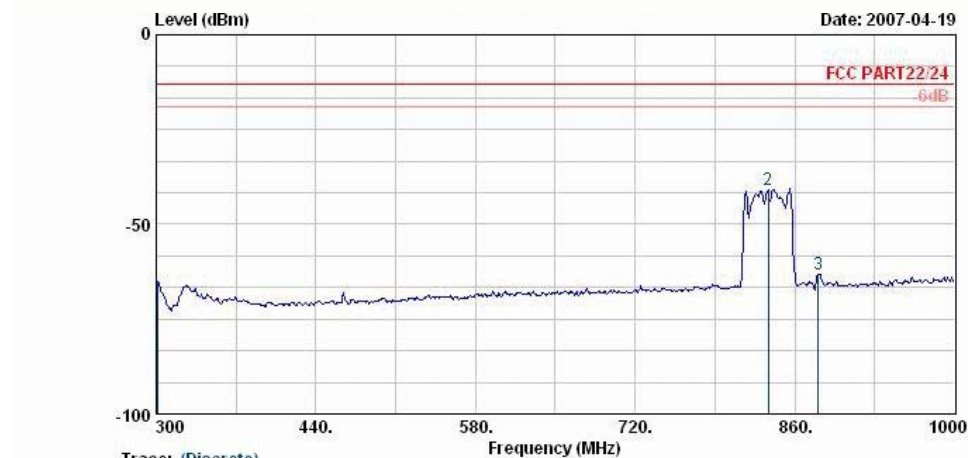
Horizontal Polarization



Trace: (Discrete)

Condition : LF-SPORTON HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA2000 Cellular Link;Ch384+11b Tx_CH06
Plane : +Adaptor 1
E2

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	68.88	-57.72	-44.72	-13.00	-45.36	-12.36	Peak
2	133.14	-53.93	-40.93	-13.00	-41.31	-12.62	Peak
3	297.03	-62.95	-49.95	-13.00	-52.90	-10.05	Peak



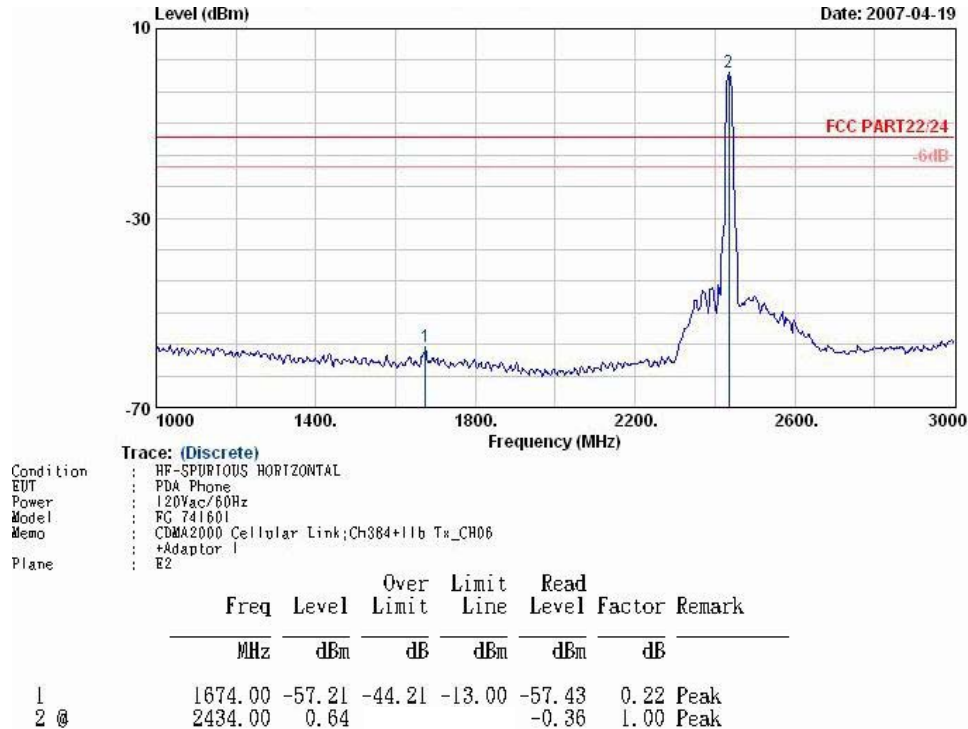
Trace: (Discrete)

Condition : LF-SPORTON HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA2000 Cellular Link;Ch384+11b Tx_CH06
Plane : +Adaptor 1
E2

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	300.70	-64.91	-51.91	-13.00	-55.00	-9.91	Peak
2	836.90	-40.80			-39.47	-1.33	Peak
3	880.30	-63.09			-62.17	-0.91	Peak

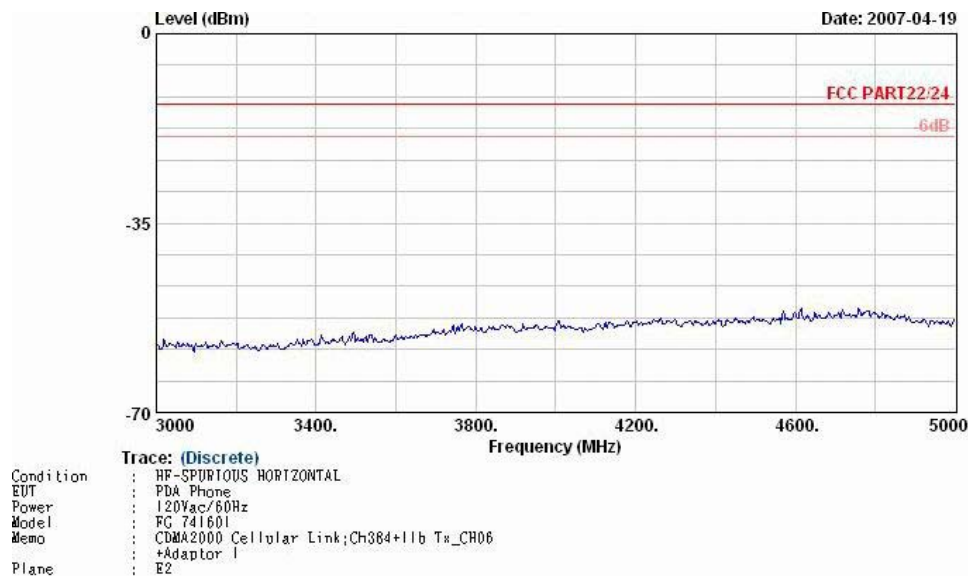
Remark:

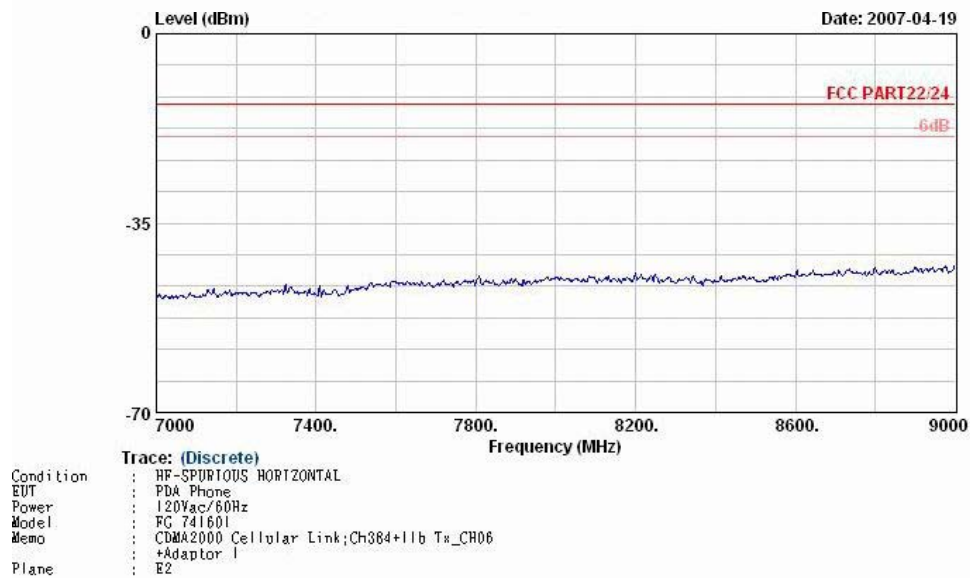
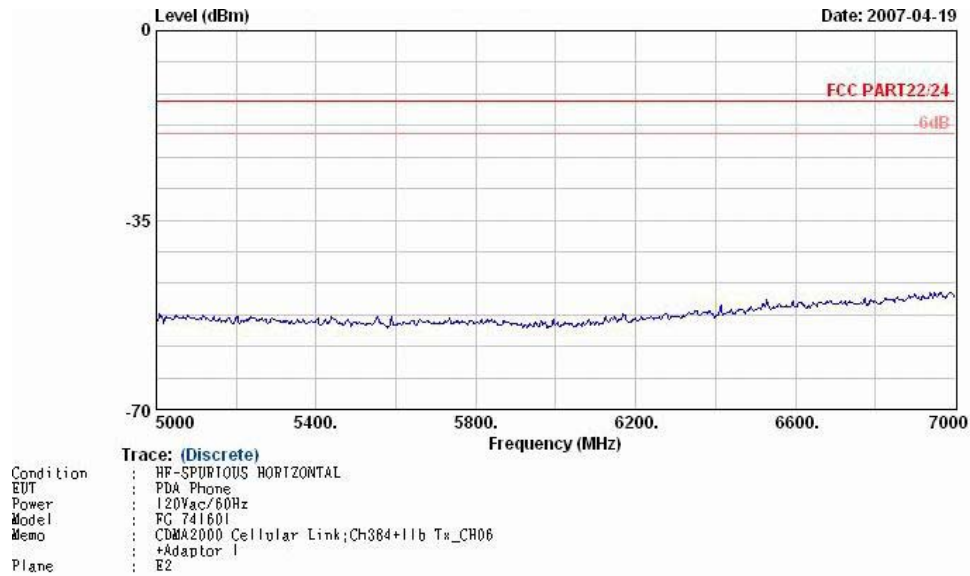
1. #2: MS Signal
2. #3: BS Signal



Remark:

1. #2: WLAN Signal

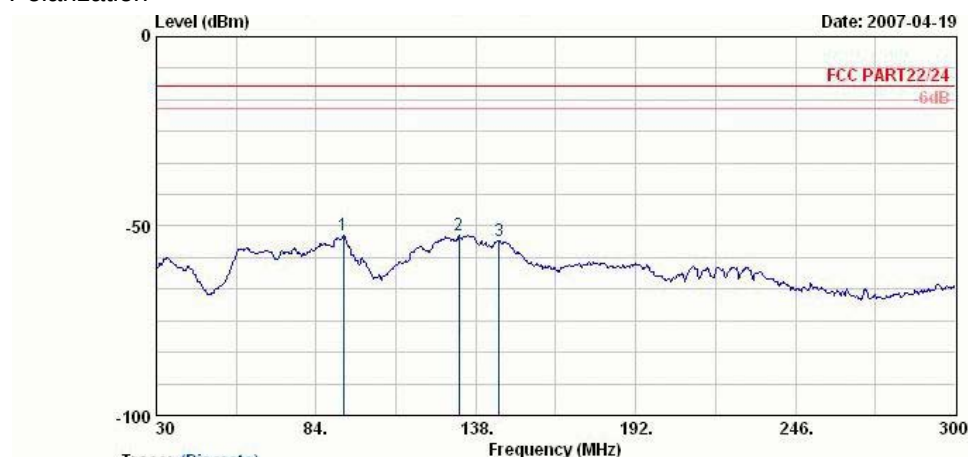




Remark: There's no more obvious spurious emission except the listings above.

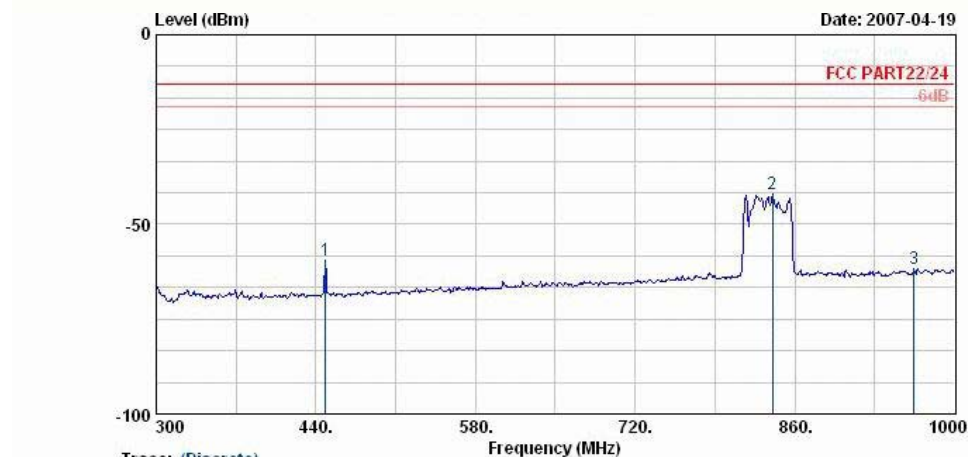


Vertical Polarization



Trace: (Discrete)
Condition : LF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA2000 Cellular Link;Ch384+11b Tx_CH06
+Adaptor I
Plane : E2

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	Factor Remark
1	93.18	-52.56	-39.56	-13.00	-43.89	-8.67 Peak
2	132.33	-52.40	-39.40	-13.00	-44.42	-7.98 Peak
3	145.83	-53.75	-40.75	-13.00	-45.65	-8.10 Peak

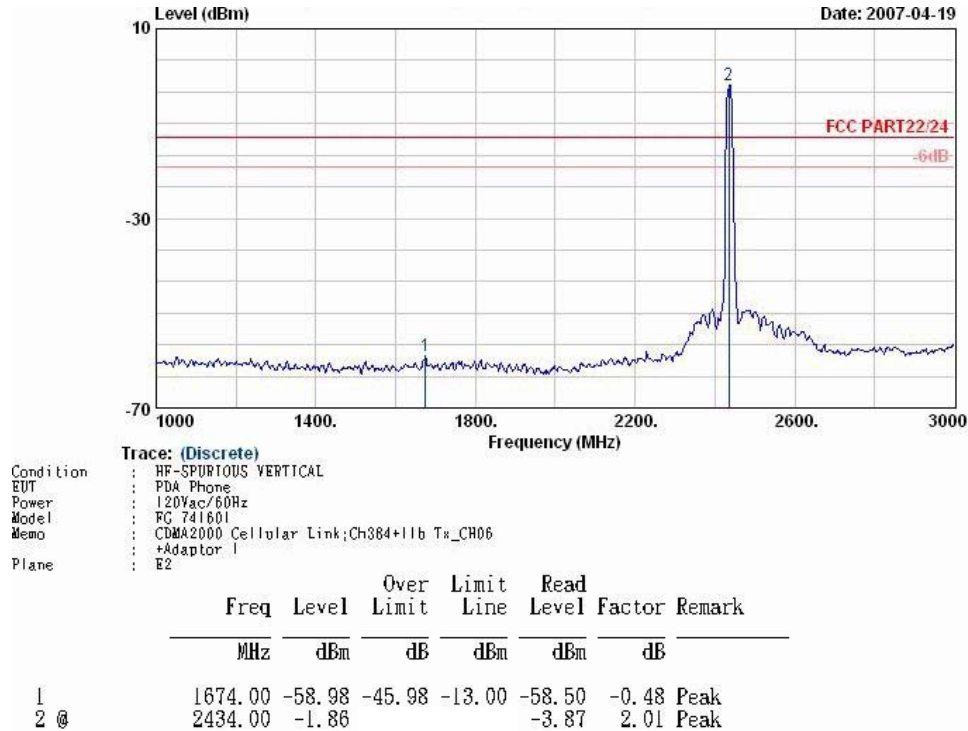


Trace: (Discrete)
Condition : LF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 741601
Memo : CDMA2000 Cellular Link;Ch384+11b Tx_CH06
+Adaptor I
Plane : E2

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	Factor Remark
1	448.40	-59.41	-46.41	-13.00	-55.66	-3.75 Peak
2	840.40	-42.14			-43.53	1.39 Peak
3	964.30	-61.80	-48.80	-13.00	-64.17	2.37 Peak

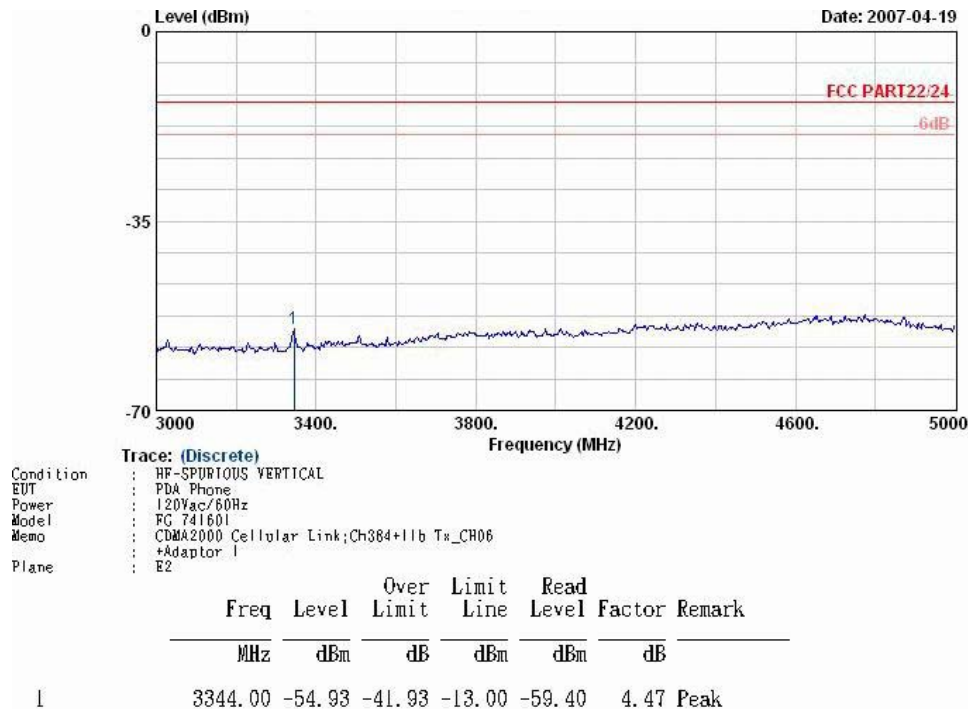
Remark:

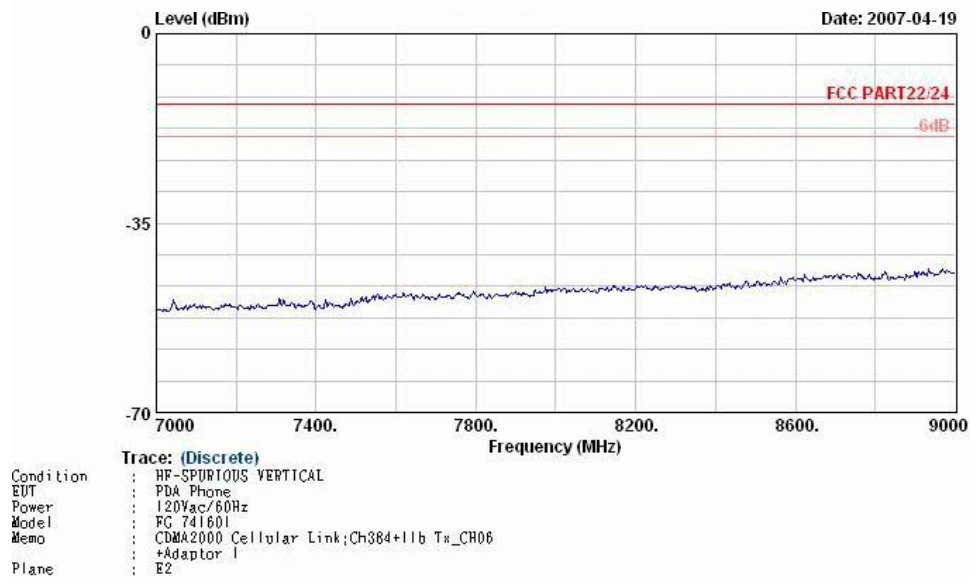
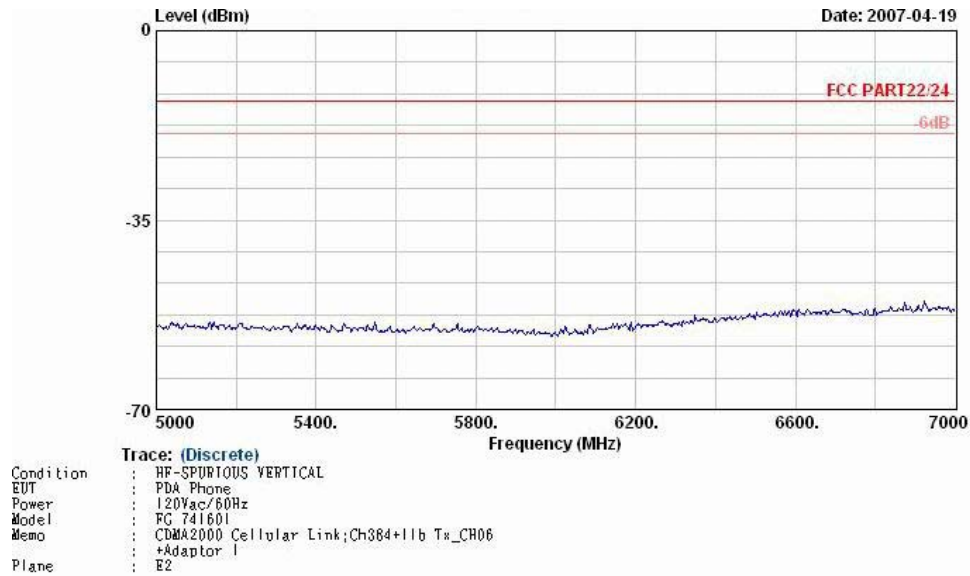
1. #2: MS Signal



Remark:

1. #2: WLAN Signal





Remark : There is no more obvious emission except the listings above.

4.7 Frequency Stability (Temperature Variation)

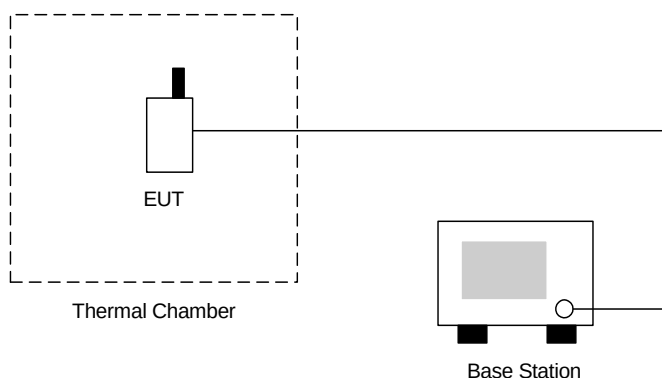
4.7.1 Measurement Instrument

As described in chapter 5 of this test report.

4.7.2 Test Procedure

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was noted within one minute.
3. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The temperature tests were performed for the worst case.
5. Test data was recorded.

4.7.3 Test Setup Layout



**4.7.4 Test Result**

- Test Mode : CDMA2000 Cellular 850 1xEV-DO 38.4Kbps CH384

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-64	-0.03	2.5	Passed
-20	58	0.03		
-10	-46	-0.02		
0	-44	-0.02		
10	38	0.02		
20	21	0.01		
30	-34	-0.02		
40	-33	-0.02		
50	42	0.02		

- Test Mode : CDMA2000 PCS 1900 1xRTT FCH_RC1 CH600

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	79.00	0.04	2.5	Passed
-20	-66.00	-0.03		
-10	-39.00	-0.02		
0	25.00	0.01		
10	22.00	0.01		
20	26.00	0.01		
30	-33.00	-0.02		
40	-32.00	-0.02		
50	-48.00	-0.03		

4.8 Frequency Stability (Voltage Variation)

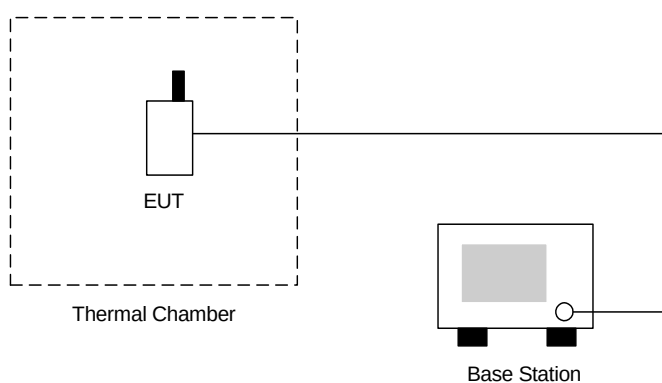
4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

4.8.2 Test Procedure

1. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected as the following section.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

4.8.3 Test Setup Layout



4.8.4 Test Result

- Test Mode : CDMA2000 Cellular 850 1xEV-DO CH384

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	18.0	0.01	2.5	Passed
BEP	-15.0	-0.01		
4.2	21.0	0.01		

- Test Mode : CDMA2000 PCS 1900 1xRTT CH600

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	22.00	0.01	2.5	Passed
BEP	-26.00	-0.01		
4.3	11.00	0.01		

Remark:

1. Normal Voltage=3.7 V.
2. Battery End Point (BEP)=3.5 V.

5 List of Measurement Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Thermal Chamber	Tenxi technology	TTH-D35P	TBN-930701	N/A	Jul. 24, 2006	Jul. 23, 2007	TH02-HY
Spectrum	R&S	FSP40	100055	9KHz~40GHz	Jun. 23, 2006	Jun. 22, 2007	TH02-HY
Bluetooth Test	ANRITSU	MT8852A	6K00003939	N/A	N/A	N/A	TH02-HY
POWER DIVIDER	ARRA	5200-1	3871	N/A	Oct. 07, 2006	Oct. 06, 2007	TH02-HY
HIGHT SPEED POWER SUPPLY	Keithley	2303	1050247	N/A	May 20, 2005	May 19, 2007	TH02-HY
Power Meter	Agilent	E4416A	GB41292344	N/A	Feb. 08, 2007	Feb. 07, 2008	TH02-HY
Power Sensor	Agilent	E9327A	US40441548	N/A	Feb. 08, 2007	Feb. 07, 2008	TH02-HY
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Oct. 05, 2006	Oct. 04, 2007	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 13, 2006	Jul. 12, 2007	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	10094	1G~18G	Dec. 26, 2006	Dec. 25, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Nov. 20, 2006	Nov. 19, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Pre Amplifier	Mini Circuits	ZKL-2	D092004-1	10~2500MHz	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	INN-CO	MM3000	114/8000604/ L	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)
Universal Radio Communication Tester	Agilent	E5515C	GB43460754	CDMA2000	Feb. 21, 2006	Feb. 20, 2009	Radiation (03CH06-HY)

6 Uncertainty Evaluation

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of X_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of X_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty Uc(y)	2.36				
Measuring uncertainty for a level of confidence of 95% U=2Ue(y)	4.72				

END OF TEST REPORT