

4.6 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-C.

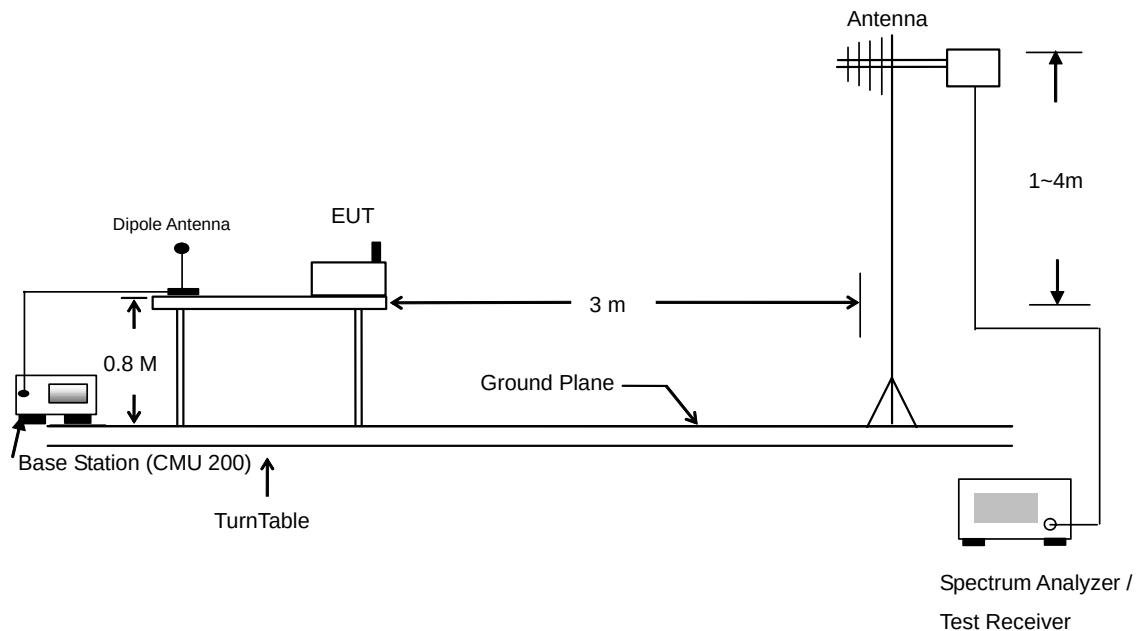
4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Emission level (dBm) = output power + substitution Gain.

4.6.3 Test Setup Layout



4.6.4 Test Result

- Test Mode : Mode 1

GSM850 (GSM) Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
89.940	-61.290	-13	-48.29	83.190	-53.190	-13	-40.19
232.230	-61.500	-13	-48.50	265.980	-59.190	-13	-46.19
265.980	-58.570	-13	-45.57	299.190	-57.540	-13	-44.54
995.800	-52.750	-13	-39.75	995.800	-58.730	-13	-45.73
1628.000	-57.800	-13	-44.80	1674.000	-18.620	-13	-5.62
1674.000	-13.100	-13	-0.10	1734.000	-59.810	-13	-46.81
1744.000	-56.510	-13	-43.51	2508.000	-23.070	-13	-10.07
1848.000	-58.450	-13	-45.45	3344.000	-33.390	-13	-20.39
1904.000	-56.340	-13	-43.34	3524.000	-55.600	-13	-42.60
1958.000	-59.210	-13	-46.21	4178.000	-30.420	-13	-17.42
2508.000	-23.070	-13	-10.07	5018.000	-46.560	-13	-33.56
3344.000	-38.710	-13	-25.71	5854.000	-46.770	-13	-33.77
3664.000	-53.430	-13	-40.43	6688.000	-49.780	-13	-36.78
4184.000	-31.310	-13	-18.31	7528.000	-47.970	-13	-34.97
5018.000	-38.910	-13	-25.91				
5854.000	-43.340	-13	-30.34				
7528.000	-44.170	-13	-31.17				



- Test Mode : Mode 2

GSM850 (EDGE8) Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
233.580	-63.110	-13	-50.11	58.890	-59.600	-13	-46.60
265.980	-63.330	-13	-50.33	107.490	-56.090	-13	-43.09
292.980	-59.410	-13	-46.41	265.980	-59.280	-13	-46.28
300.000	-55.670	-13	-42.67	995.800	-60.380	-13	-47.38
1674.000	-11.580	-13	1.42	1674.000	-22.820	-13	-9.82
1698.000	-54.650	-13	-41.65	2508.000	-23.200	-13	-10.20
1764.000	-58.550	-13	-45.55	3344.000	-42.460	-13	-29.46
1794.000	-51.870	-13	-38.87	3524.000	-54.650	-13	-41.65
1838.000	-53.470	-13	-40.47	3538.000	-55.830	-13	-42.83
2508.000	-29.090	-13	-16.09	3574.000	-54.700	-13	-41.70
3344.000	-37.640	-13	-24.64	4184.000	-39.490	-13	-26.49
3384.000	-56.070	-13	-43.07	5018.000	-46.790	-13	-33.79
3478.000	-54.350	-13	-41.35	5854.000	-50.440	-13	-37.44
3524.000	-54.240	-13	-41.24	6688.000	-49.990	-13	-36.99
3578.000	-54.370	-13	-41.37				
3668.000	-54.260	-13	-41.26				
4178.000	-34.830	-13	-21.83				

- Test Mode : Mode 3

PCS1900 (GSM) Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
103.980	-60.260	-13	-47.26	110.190	-53.000	-13	-40.00
230.880	-56.620	-13	-43.62	265.980	-59.070	-13	-46.07
265.980	-49.450	-13	-36.45	297.840	-56.650	-13	-43.65
780.900	-59.030	-13	-46.03	301.400	-57.220	-13	-44.22
855.800	-57.570	-13	-44.57	533.800	-60.540	-13	-47.54
931.400	-58.420	-13	-45.42	932.800	-60.030	-13	-47.03
1628.000	-52.160	-13	-39.16	1064.000	-56.900	-13	-43.90
1664.000	-55.470	-13	-42.47	1718.000	-56.110	-13	-43.11
1698.000	-55.410	-13	-42.41	1868.000	-55.870	-13	-42.87
1718.000	-56.350	-13	-43.35	3758.000	-32.970	-13	-19.97
1764.000	-58.800	-13	-45.80	5638.000	-41.920	-13	-28.92
1798.000	-57.740	-13	-44.74	7518.000	-44.350	-13	-31.35
3388.000	-52.240	-13	-39.24				
3758.000	-27.480	-13	-14.48				
3918.000	-51.190	-13	-38.19				
5638.000	-41.200	-13	-28.20				
7518.000	-44.200	-13	-31.20				
9398.000	-42.290	-13	-29.29				
11278.000	-40.220	-13	-27.22				



- Test Mode : Mode 4

PCS1900 (EDGE8) Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
255.180	-60.810	-13	-47.81	62.940	-59.550	-13	-46.55
265.980	-55.350	-13	-42.35	105.330	-60.680	-13	-47.68
299.730	-61.620	-13	-48.62	263.280	-63.070	-13	-50.07
665.400	-62.170	-13	-49.17	854.400	-61.810	-13	-48.81
864.900	-63.450	-13	-50.45	896.400	-61.830	-13	-48.83
932.800	-62.280	-13	-49.28	990.900	-61.250	-13	-48.25
3388.000	-50.870	-13	-37.87	3388.000	-52.990	-13	-39.99
3544.000	-52.800	-13	-39.80	3464.000	-53.180	-13	-40.18
3628.000	-50.640	-13	-37.64	3758.000	-32.060	-13	-19.06
3758.000	-29.440	-13	-16.44	5638.000	-46.500	-13	-33.50
5638.000	-42.410	-13	-29.41				
7518.000	-42.920	-13	-29.92				
11278.000	-40.220	-13	-27.22				

- Test Mode : Mode 5

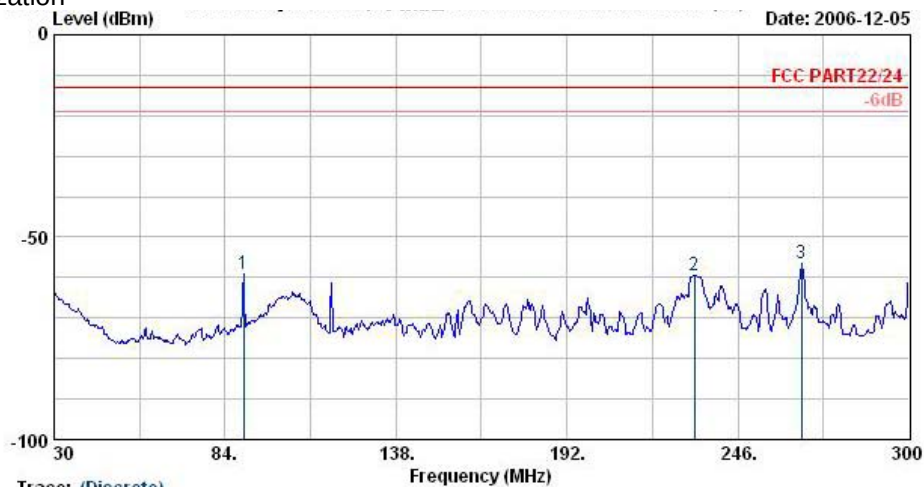
GSM850 (GSM) with Bluetooth Co-location Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
30.000	-66.770	-13	-53.77	30.270	-70.630	-13	-57.63
62.940	-68.970	-13	-55.97	64.290	-66.580	-13	-53.58
86.700	-70.510	-13	-57.51	90.210	-69.780	-13	-56.78
996.500	-54.580	-13	-41.58	996.500	-61.530	-13	-48.53
1670.000	-21.540	-13	-8.54	1670.000	-20.100	-13	-7.10
2510.000	-30.910	-13	-17.91	2510.000	-24.330	-13	-11.33
3342.000	-32.200	-13	-19.20	3342.000	-30.890	-13	-17.89
3524.000	-52.670	-13	-39.67	3484.000	-55.110	-13	-42.11
4180.000	-38.120	-13	-25.12	3590.000	-56.580	-13	-43.58
4822.000	-44.340	-13	-31.34	3686.000	-55.770	-13	-42.77
4854.000	-45.680	-13	-32.68	4182.000	-35.010	-13	-22.01
4878.000	-45.040	-13	-32.04	4806.000	-40.180	-13	-27.18
4900.000	-49.350	-13	-36.35	4852.000	-47.590	-13	-34.59
4924.000	-49.890	-13	-36.89	4878.000	-47.210	-13	-34.21
5014.000	-42.390	-13	-29.39	4910.000	-44.610	-13	-31.61
5854.000	-45.840	-13	-32.84	4958.000	-47.900	-13	-34.90
6692.000	-49.100	-13	-36.10	5014.000	-42.090	-13	-29.09
				5854.000	-47.220	-13	-34.22
				7526.000	-46.960	-13	-33.96



4.6.5 Test Data

4.6.5.1 Mode 1

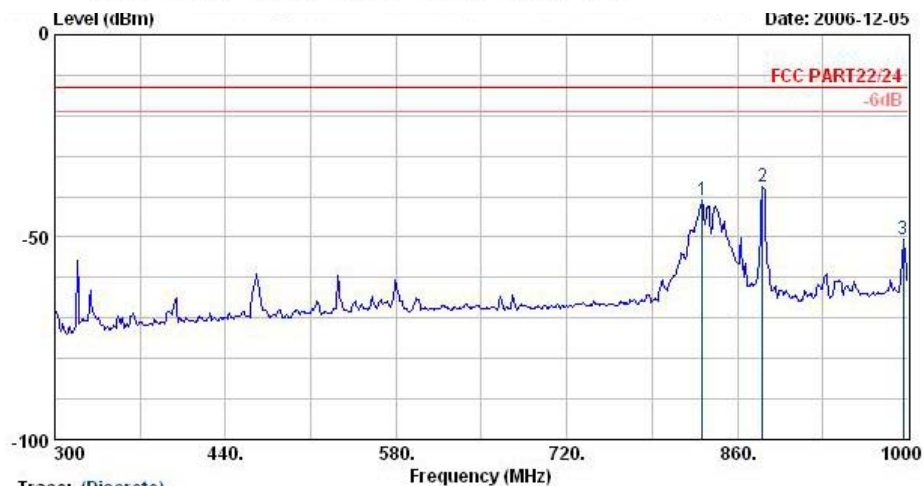
Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LP-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	89.9	-59.14	-46.14	-13.00	-46.86	-12.28	Peak
2	232.2	-59.35	-46.35	-13.00	-47.06	-12.29	Peak
3	266.0	-56.42	-43.42	-13.00	-45.31	-11.12	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LP-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

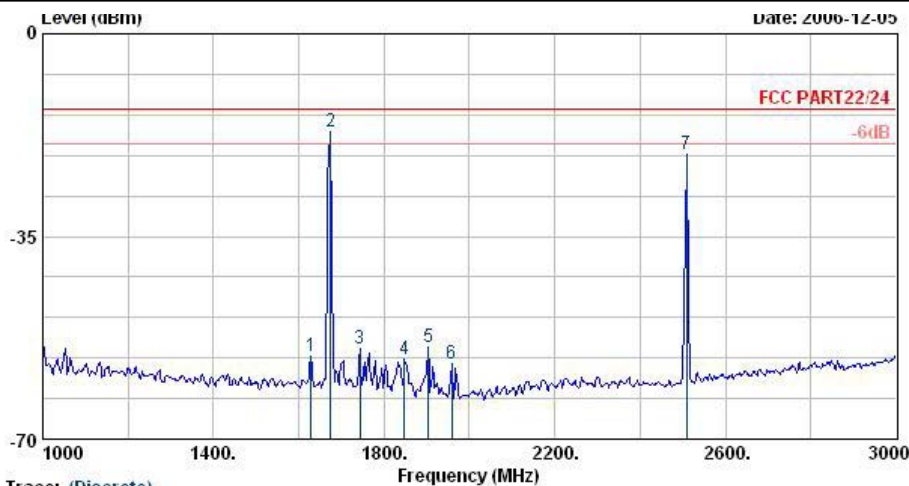
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	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	831.3	-41.05			-39.66	-1.39	Peak
2 @	880.3	-37.44			-36.53	-0.91	Peak
3	995.8	-50.60	-37.60	-13.00	-50.81	0.20	Peak

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



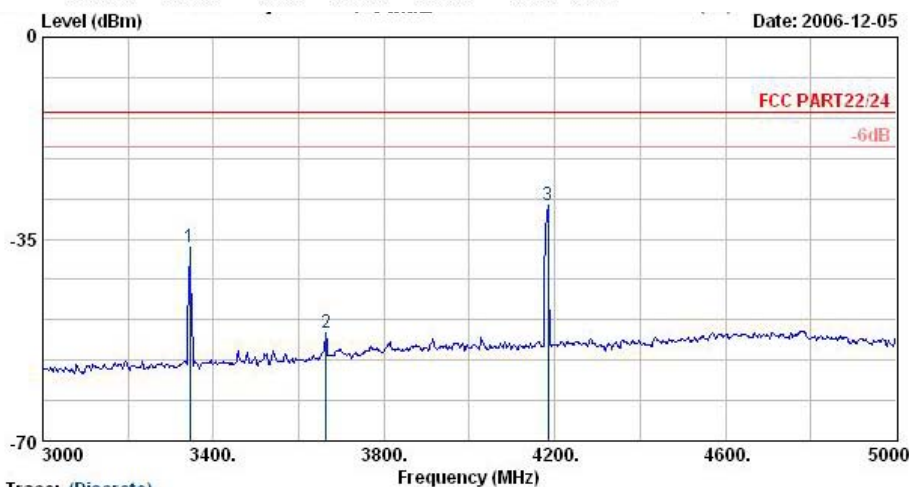
FCC TEST REPORT

Report No. : FG6N2811



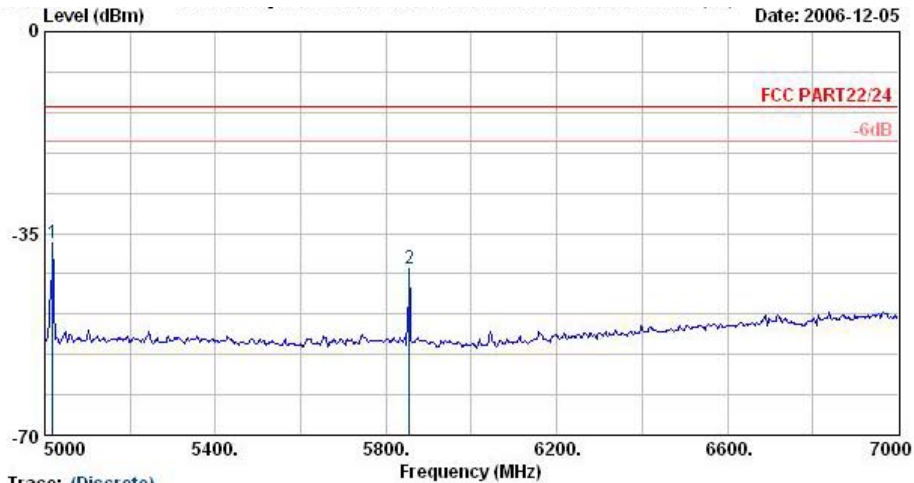
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Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1	1628.0	-55.65	-42.65	-13.00	-55.97	0.31	Peak
2 @	1674.0	-16.95	-3.95	-13.00	-17.18	0.22	Peak
3	1744.0	-54.36	-41.36	-13.00	-54.38	0.02	Peak
4	1848.0	-56.30	-43.30	-13.00	-55.96	-0.34	Peak
5	1904.0	-54.19	-41.19	-13.00	-53.51	-0.68	Peak
6	1958.0	-57.06	-44.06	-13.00	-55.95	-1.11	Peak
7 @	2508.0	-20.92	-7.92	-13.00	-22.12	1.20	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

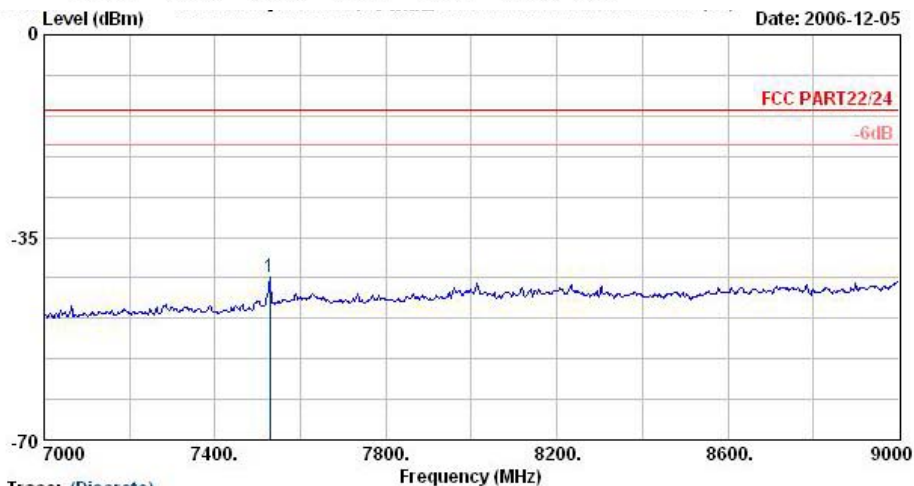
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1 @	3344.0	-36.56	-23.56	-13.00	-41.97	5.41	Peak
2	3664.0	-51.28	-38.28	-13.00	-58.20	6.92	Peak
3 @	4184.0	-29.16	-16.16	-13.00	-38.94	9.79	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	5018.0	-36.76	-23.76	-13.00	-47.00	10.24 Peak
2 @	5854.0	-41.19	-28.19	-13.00	-51.40	10.22 Peak



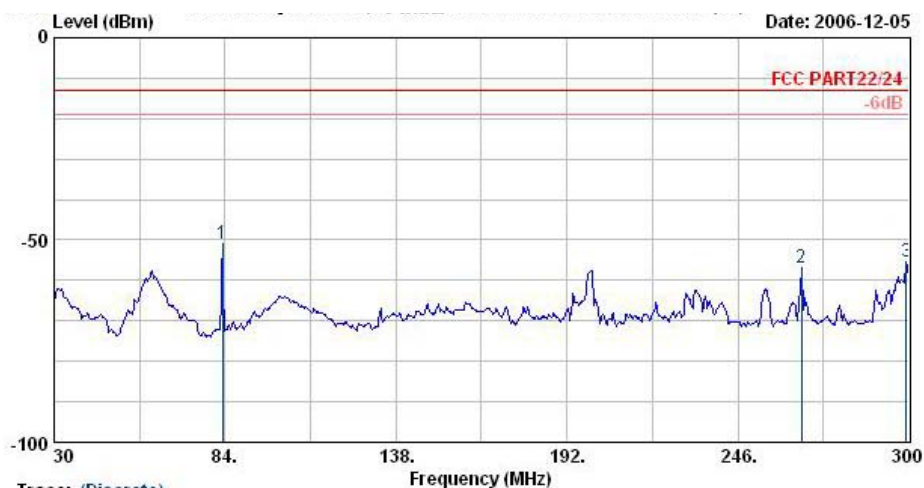
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	7528.0	-42.02	-29.02	-13.00	-57.82	15.80 Peak



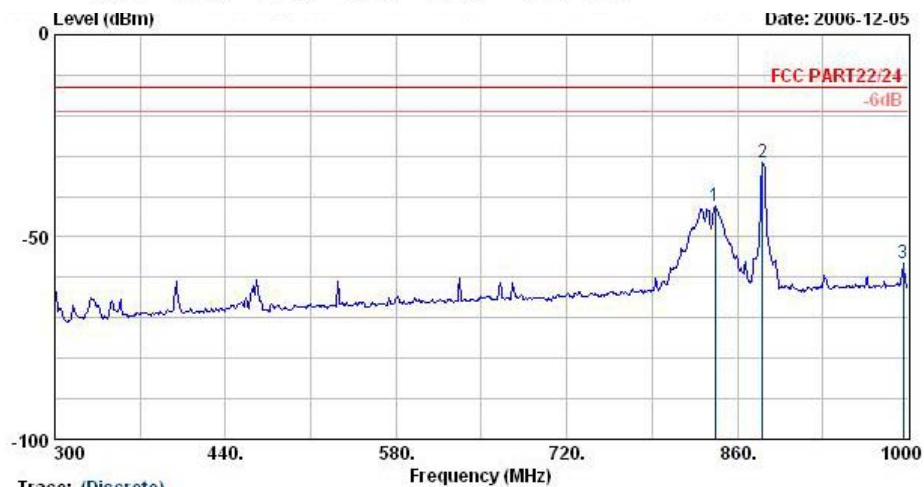
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	83.2	-51.04	-38.04	-13.00	-40.97	-10.07	Peak
2	266.0	-57.04	-44.04	-13.00	-49.86	-7.18	Peak
3	299.2	-55.39	-42.39	-13.00	-48.93	-6.46	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

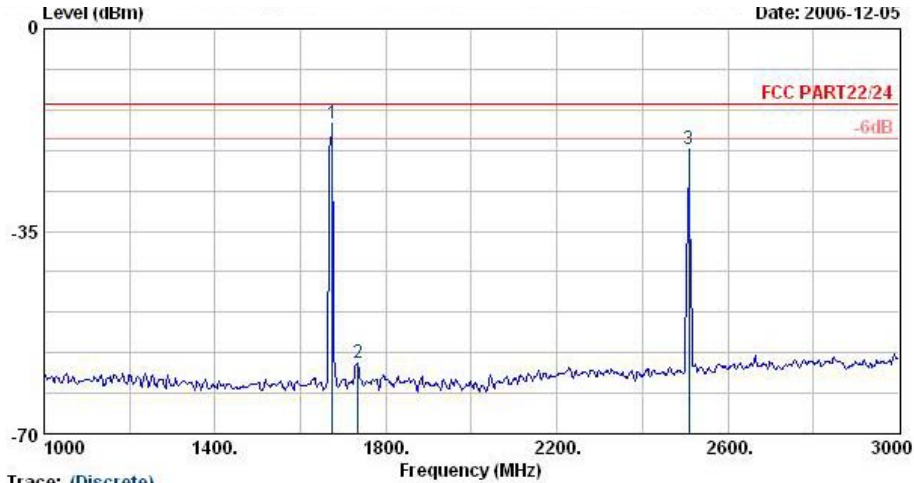
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	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	841.8	-42.28			-43.68	1.40	Peak
2 @	880.3	-31.62			-33.33	1.71	Peak
3	995.8	-56.58	-43.58	-13.00	-59.21	2.63	Peak

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



FCC TEST REPORT

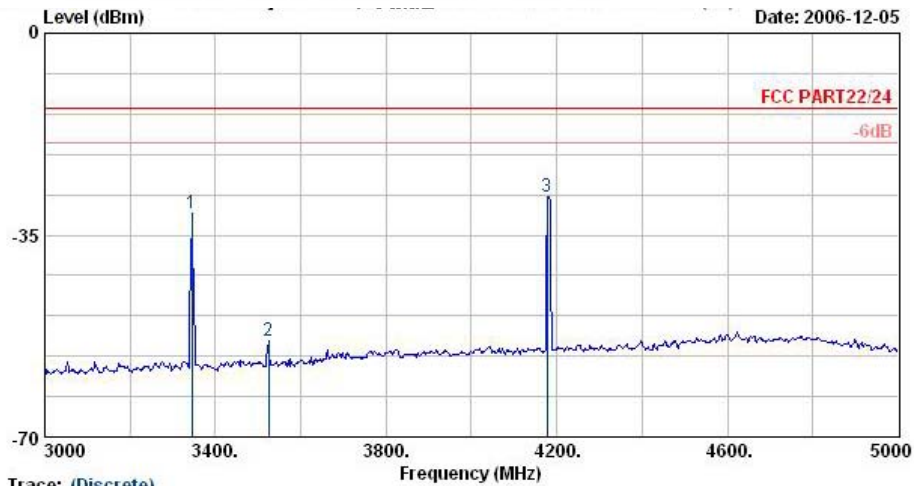
Report No. : FG6N2811



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

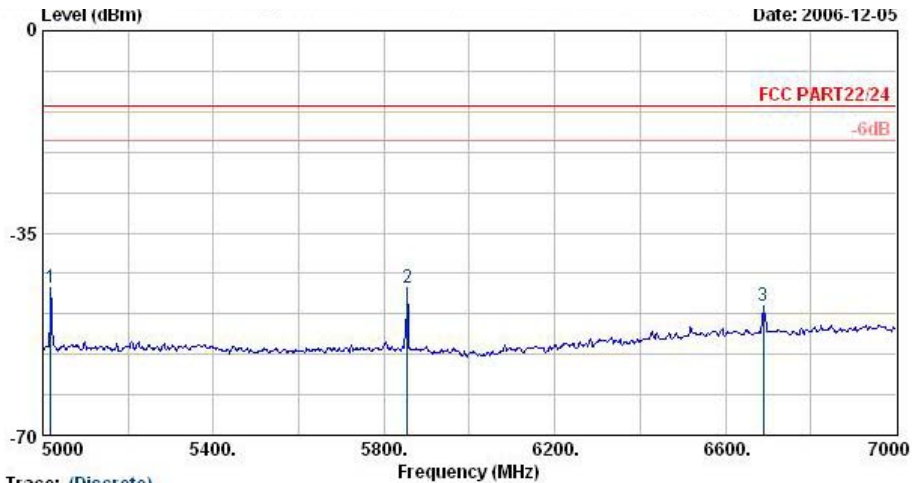
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	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	1674.0	-16.47	-3.47	-13.00	-15.99	-0.48 Peak
2	1734.0	-57.66	-44.66	-13.00	-57.32	-0.34 Peak
3 @	2508.0	-20.92	-7.92	-13.00	-23.19	2.27 Peak



Trace: (Discrete)

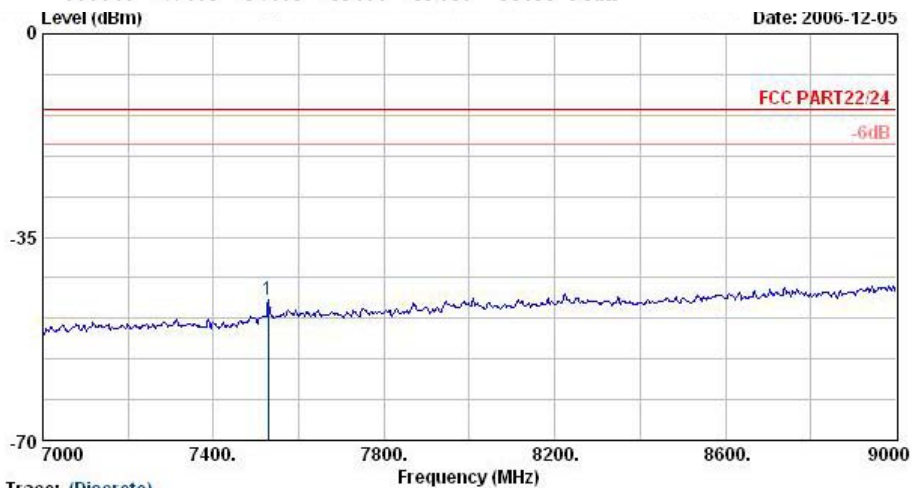
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	3344.0	-31.24	-18.24	-13.00	-35.70	4.47 Peak
2	3524.0	-53.45	-40.45	-13.00	-58.38	4.93 Peak
3 @	4178.0	-28.27	-15.27	-13.00	-36.63	8.36 Peak


Trace: (Discrete)

Site : 03CH06-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 6N2811
 Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	5018.0	-44.41	-31.41	-13.00	-53.26	8.85	Peak
2 @	5854.0	-44.62	-31.62	-13.00	-53.43	8.81	Peak
3	6688.0	-47.63	-34.63	-13.00	-59.16	11.53	Peak


Trace: (Discrete)

Site : 03CH06-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 6N2811
 Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
 Plane : E1

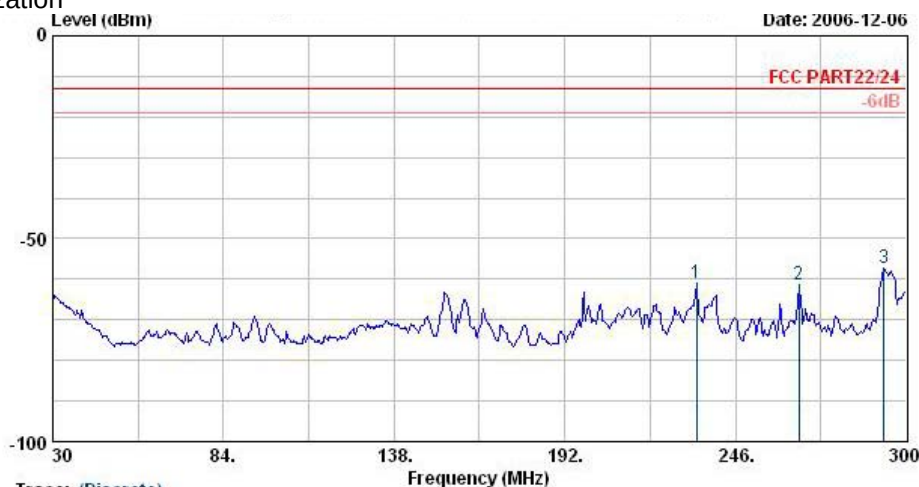
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	7528.0	-45.82	-32.82	-13.00	-59.18	13.37	Peak

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



4.6.5.2 Mode 2

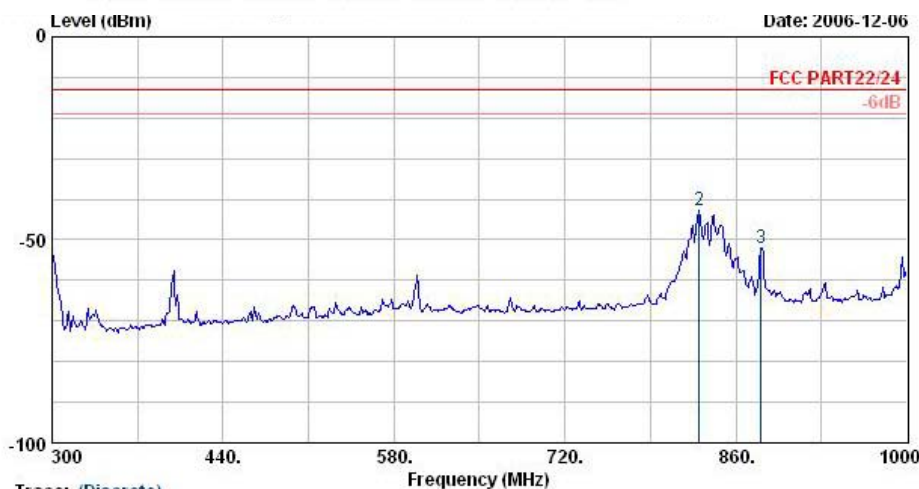
Horizontal Polarization



Trace: (Discrete)

Site : 03CHD6-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	233.6	-60.96	-47.96	-13.00	-48.74	-12.22 Peak
2	266.0	-61.18	-48.18	-13.00	-50.07	-11.12 Peak
3	293.0	-57.26	-44.26	-13.00	-47.08	-10.18 Peak

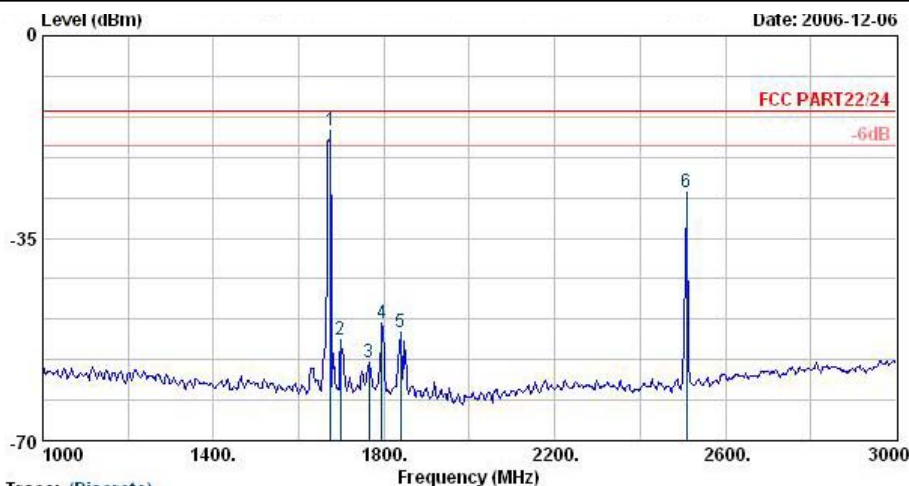


Trace: (Discrete)

Site : 03CHD6-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	300.0	-53.52	-40.52	-13.00	-43.58	-9.95 Peak
2	829.9	-42.78			-41.38	-1.40 Peak
3	880.3	-51.92			-51.01	-0.91 Peak

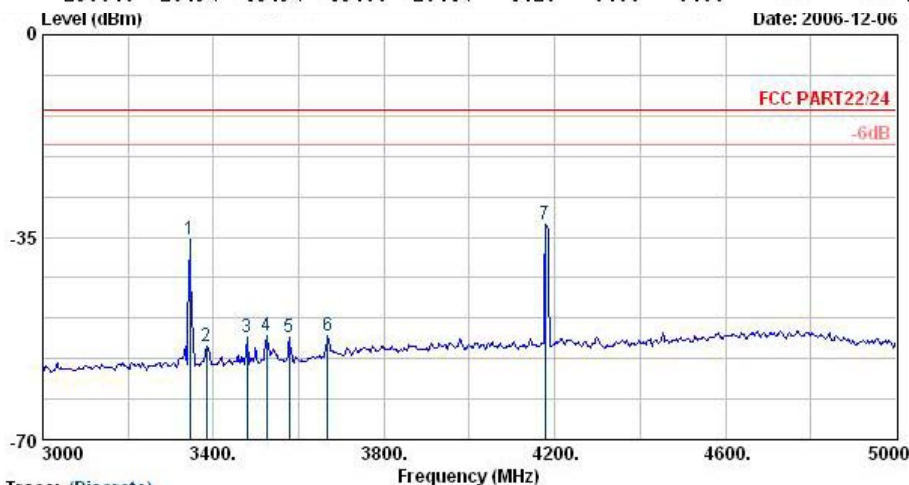
Remark: 1. #2: MS TCH Signal
2. #3: BS TCH Signal



Trace: (Discrete)

Site : 03CHD6-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1 @	1674.0	-16.50	-3.50	-13.00	-16.72	0.22	0.00	0.00	---	---	Peak
2 @	1698.0	-52.50	-39.50	-13.00	-52.63	0.13	0.00	0.00	---	---	Peak
3 @	1764.0	-56.40	-43.40	-13.00	-56.34	-0.07	0.00	0.00	---	---	Peak
4 @	1794.0	-49.72	-36.72	-13.00	-49.56	-0.16	0.00	0.00	---	---	Peak
5 @	1838.0	-51.32	-38.32	-13.00	-50.97	-0.34	0.00	0.00	---	---	Peak
6 @	2508.0	-26.94	-13.94	-13.00	-28.14	1.20	0.00	0.00	---	---	Peak



Trace: (Discrete)

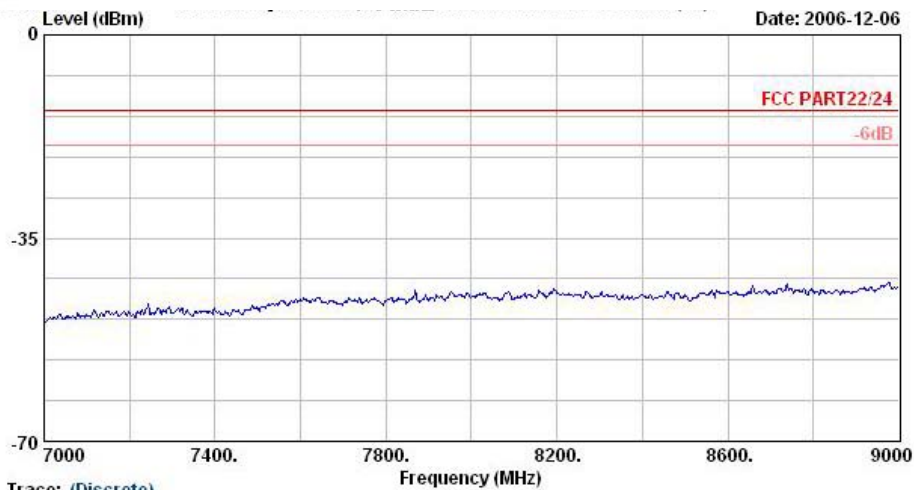
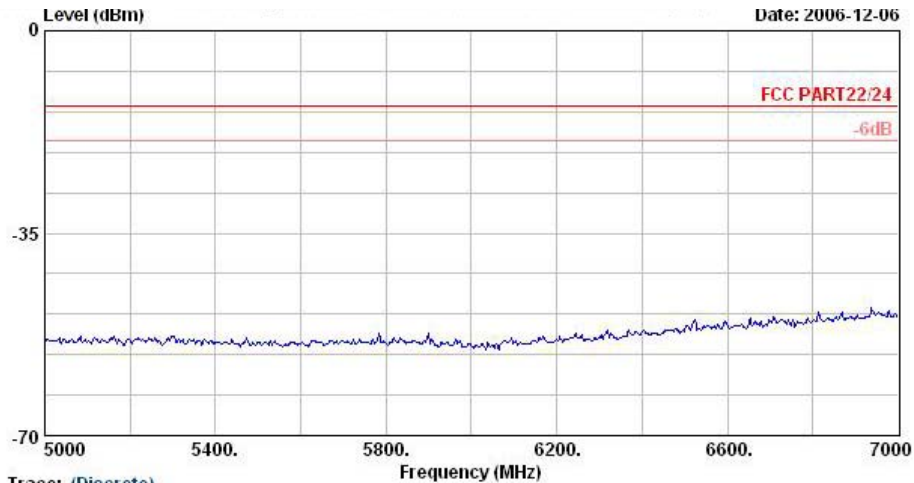
Site : 03CHD6-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	3344.0	-35.49	-22.49	-13.00	-40.90	5.41	Peak
2	3384.0	-53.92	-40.92	-13.00	-59.47	5.55	Peak
3	3478.0	-52.20	-39.20	-13.00	-57.99	5.79	Peak
4	3524.0	-52.09	-39.09	-13.00	-57.98	5.89	Peak
5	3578.0	-52.22	-39.22	-13.00	-58.55	6.33	Peak
6	3668.0	-52.11	-39.11	-13.00	-59.35	7.24	Peak
7 @	4178.0	-32.68	-19.68	-13.00	-42.47	9.79	Peak



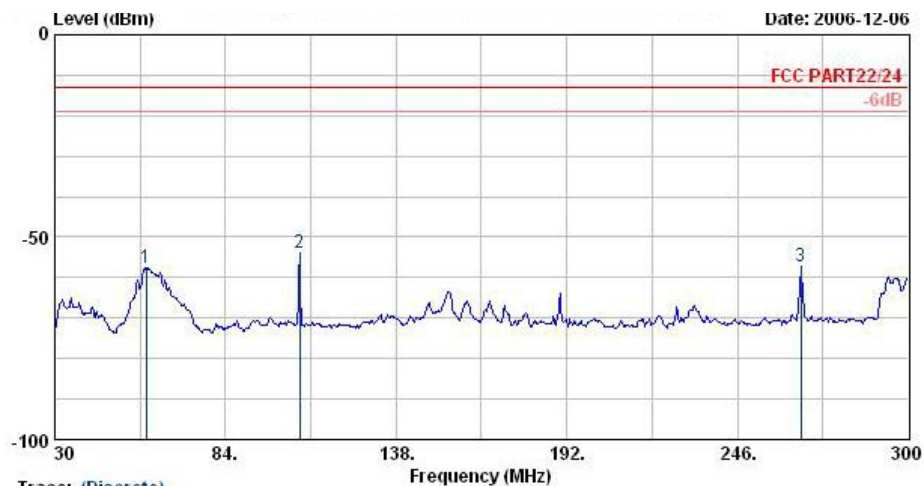
FCC TEST REPORT

Report No. : FG6N2811



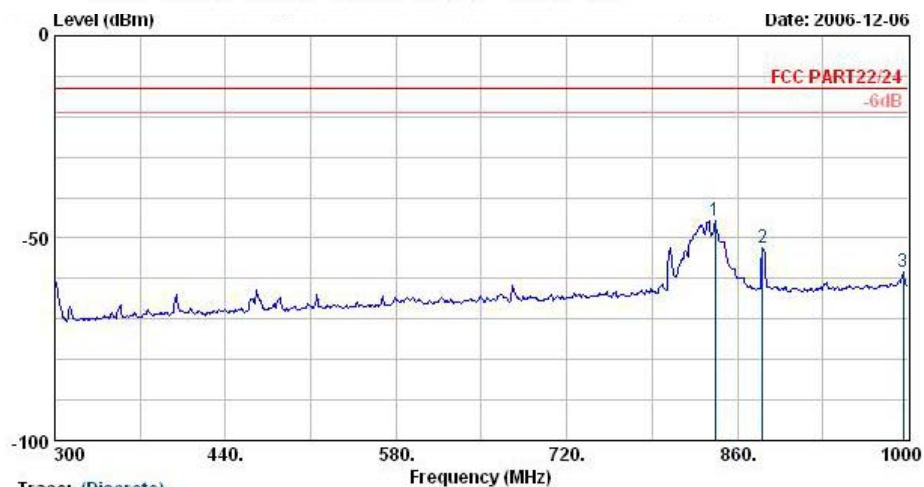


Vertical Polarization



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

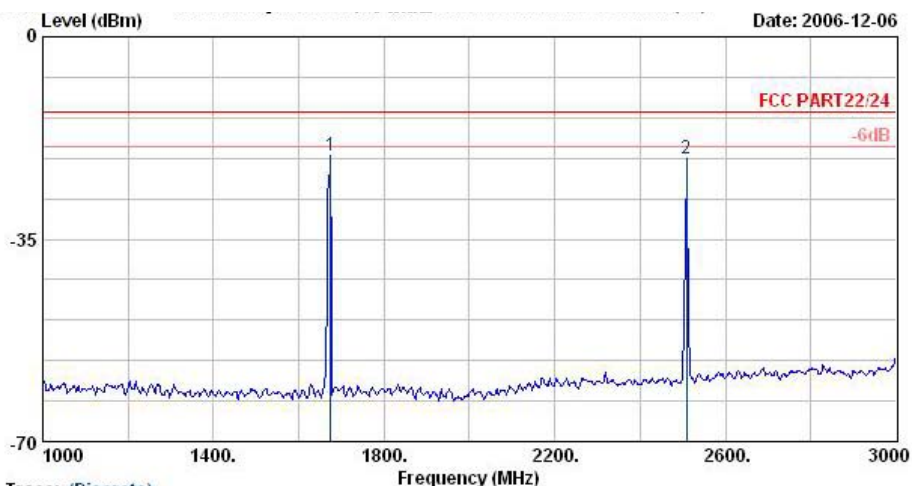
	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	58.9	-57.45	-44.45	-13.00	-43.88	-13.56 Peak
2	107.5	-53.94	-40.94	-13.00	-46.18	-7.76 Peak
3	266.0	-57.13	-44.13	-13.00	-49.95	-7.18 Peak



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	841.8	-45.64			-47.04	1.40 Peak
2	880.3	-52.58			-54.29	1.71 Peak
3	995.8	-58.23	-45.23	-13.00	-60.86	2.63 Peak

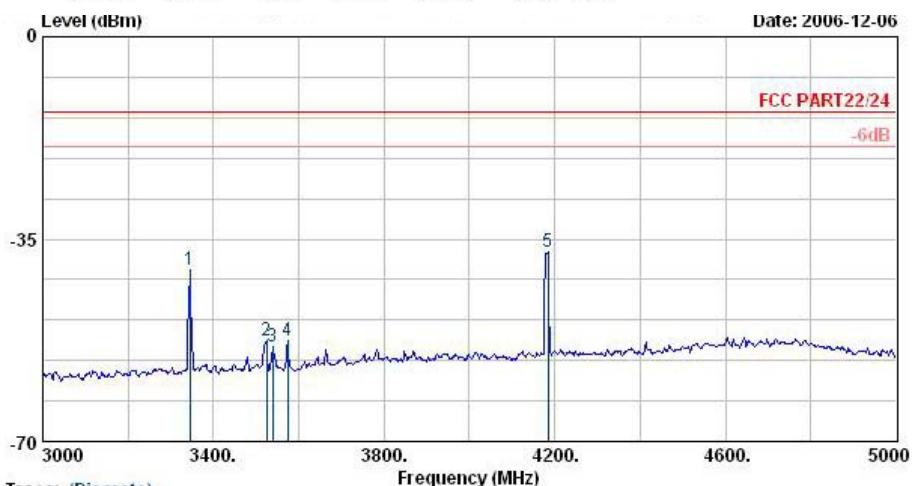
Remark: 1. #1: MS TCH Signal
2. #2: BS TCH Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

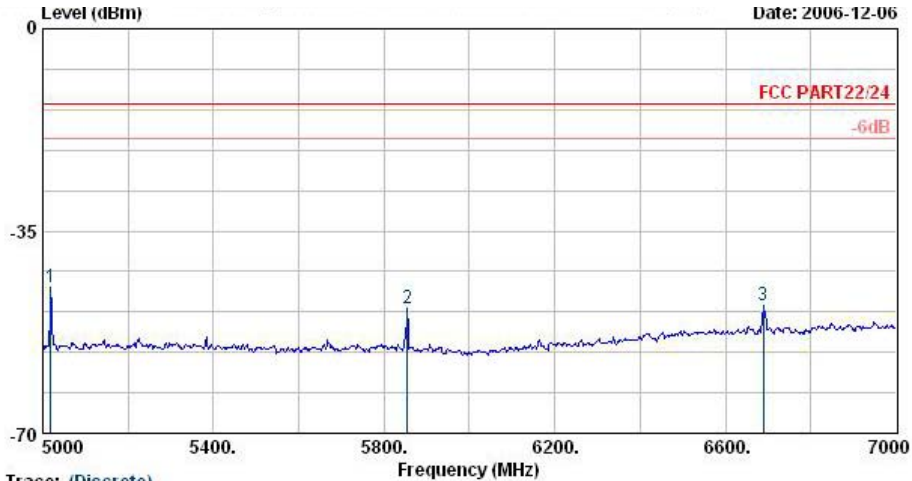
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1674.0	-20.67	-7.67	-13.00	-20.19	-0.48	Peak
2 @	2508.0	-21.05	-8.05	-13.00	-23.32	2.27	Peak



Trace: (Discrete)

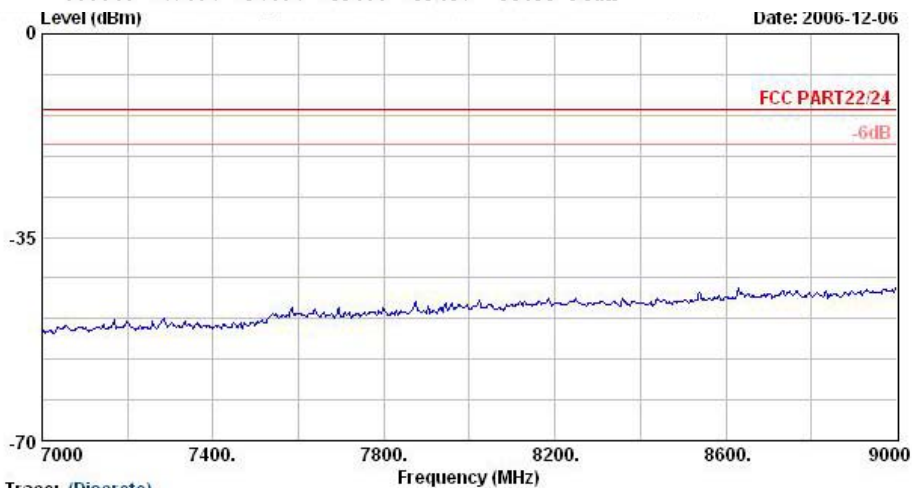
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	3344.0	-40.31	-27.31	-13.00	-44.77	4.47	Peak
2	3524.0	-52.50	-39.50	-13.00	-57.43	4.93	Peak
3	3538.0	-53.68	-40.68	-13.00	-58.78	5.10	Peak
4	3574.0	-52.55	-39.55	-13.00	-57.83	5.28	Peak
5 @	4184.0	-37.34	-24.34	-13.00	-45.70	8.36	Peak



Site : 03CH06-HY
Condition : HF-SFURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1	5018.0	-44.64	-31.64	-13.00	-53.49	8.85	Peak
2	5854.0	-48.29	-35.29	-13.00	-57.10	8.81	Peak
3	6688.0	-47.84	-34.84	-13.00	-59.37	11.53	Peak



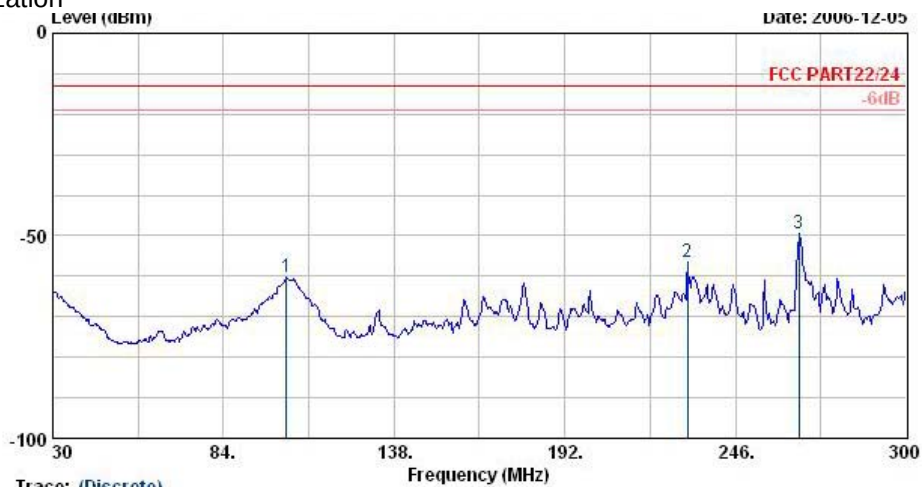
Site : 03CH06-HY
Condition : HF-SFURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

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



4.6.5.3 Mode 3

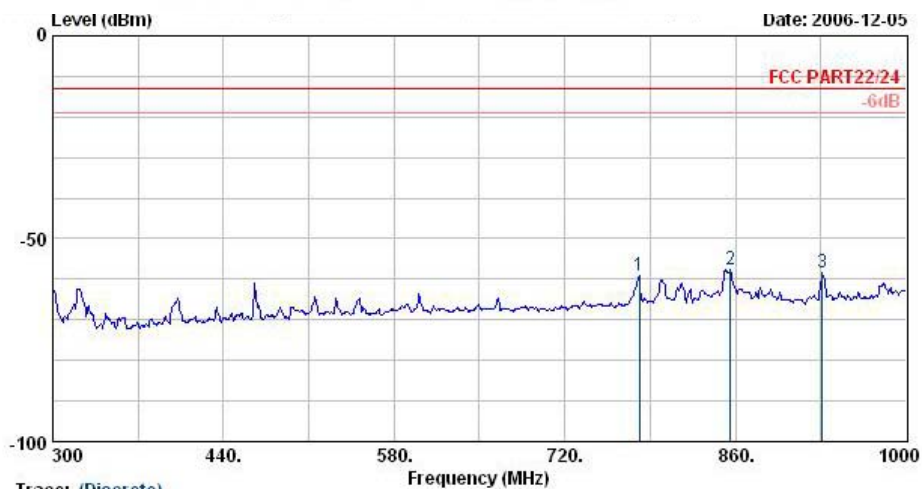
Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

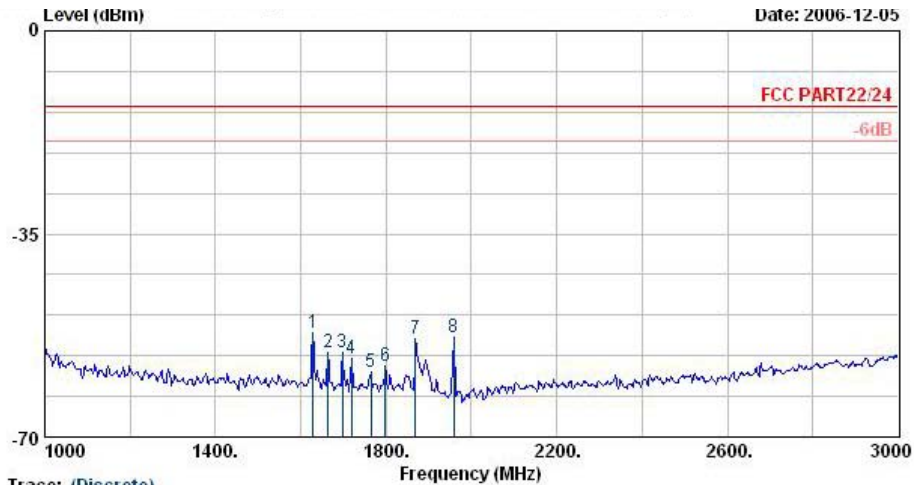
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1 @	104.0	-60.26	-47.26	-13.00	-47.98	-12.28	Peak
2 @	230.9	-56.62	-43.62	-13.00	-44.30	-12.32	Peak
3 @	266.0	-49.45	-36.45	-13.00	-38.33	-11.12	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1 @	780.9	-59.03	-46.03	-13.00	-57.14	-1.89	Peak
2 @	855.8	-57.57	-44.57	-13.00	-56.41	-1.16	Peak
3 @	931.4	-58.42	-45.42	-13.00	-58.00	-0.43	Peak

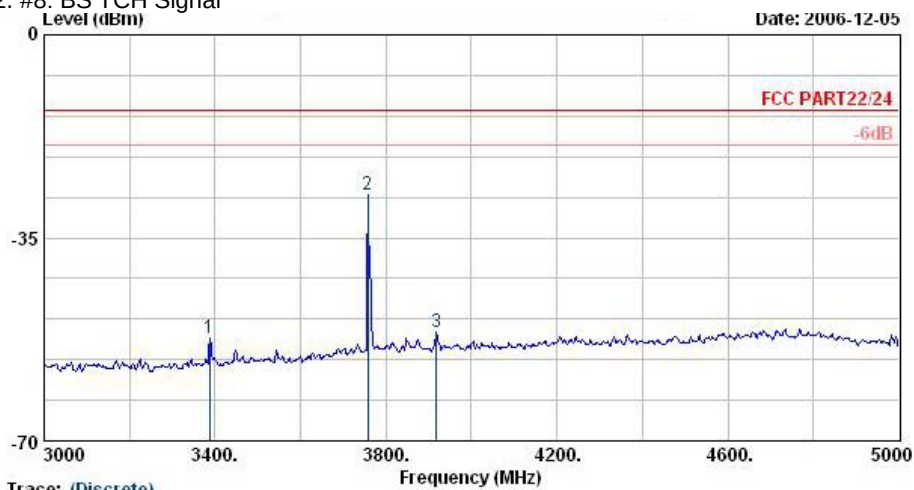


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1 @	1628.0	-52.16	-39.16	-13.00	-52.47	0.31	Peak
2 @	1664.0	-55.47	-42.47	-13.00	-55.69	0.22	Peak
3 @	1698.0	-55.41	-42.41	-13.00	-55.54	0.13	Peak
4 @	1718.0	-56.35	-43.35	-13.00	-56.42	0.08	Peak
5 @	1764.0	-58.80	-45.80	-13.00	-58.74	-0.07	Peak
6 @	1798.0	-57.74	-44.74	-13.00	-57.59	-0.16	Peak
7 @	1868.0	-53.00			-52.49	-0.51	Peak
8 @	1958.0	-52.84			-51.73	-1.11	Peak

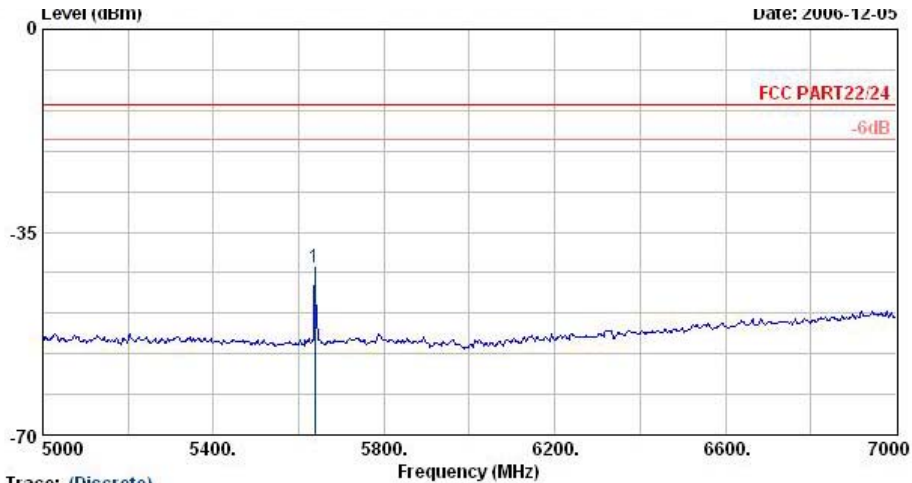
Remark: 1. #7: MS TCH Signal
2. #8: BS TCH Signal



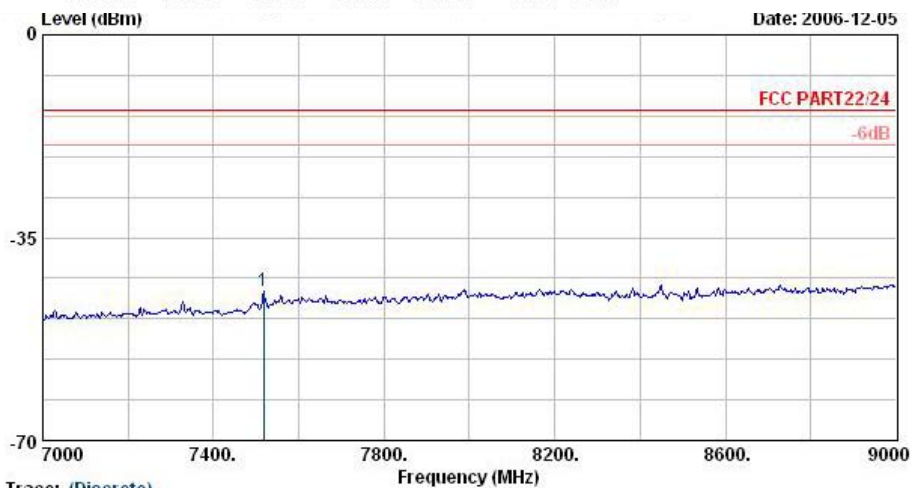
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

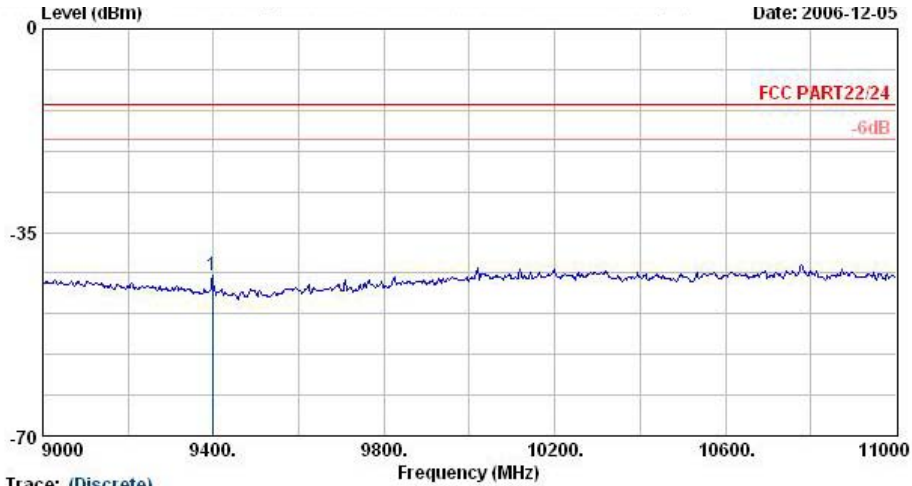
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1 @	3388.0	-52.24	-39.24	-13.00	-57.85	5.61	Peak
2 @	3758.0	-27.48	-14.48	-13.00	-35.40	7.92	Peak
3 @	3918.0	-51.19	-38.19	-13.00	-59.91	8.72	Peak



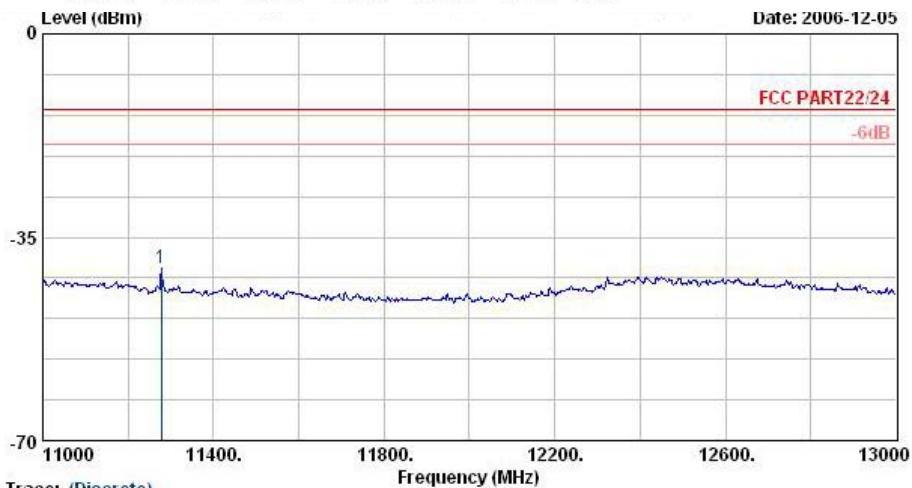
1 @



1 @



1 @

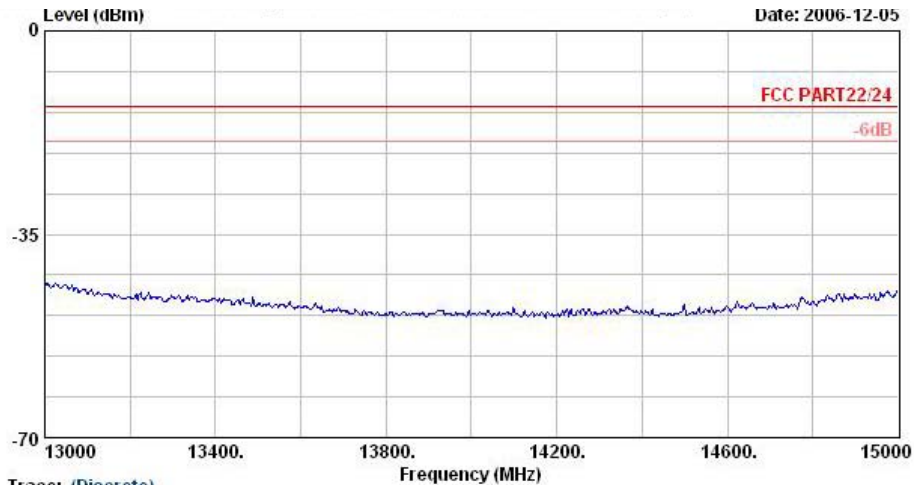


1 @



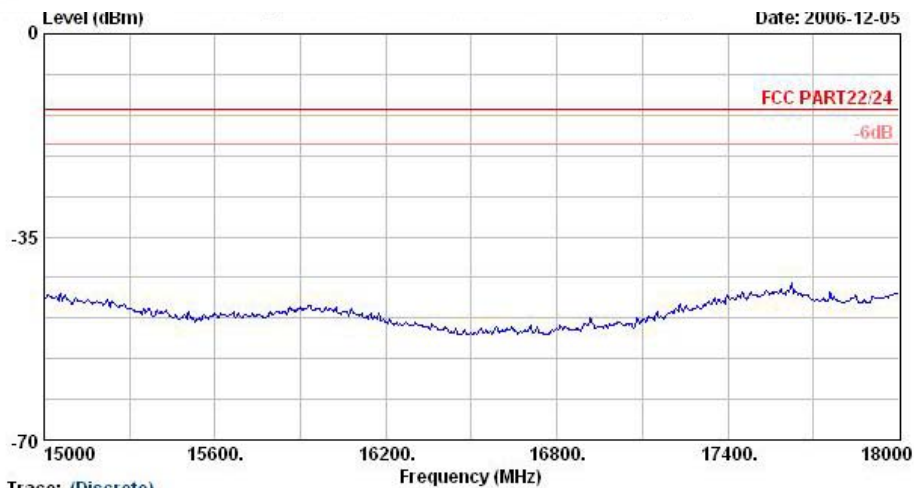
FCC TEST REPORT

Report No. : FG6N2811



Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

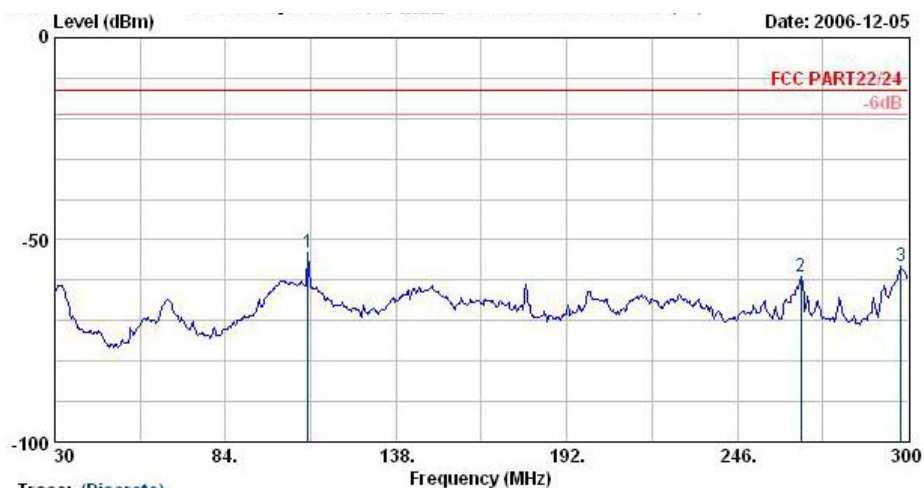


Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1



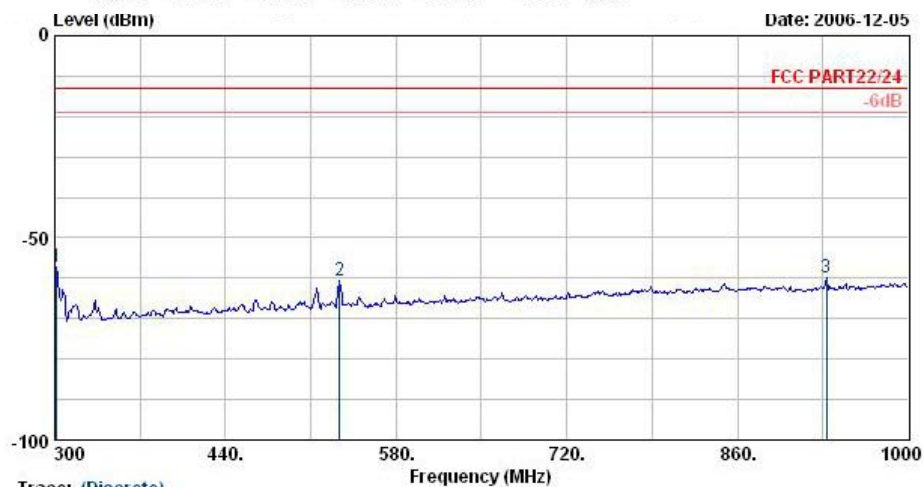
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

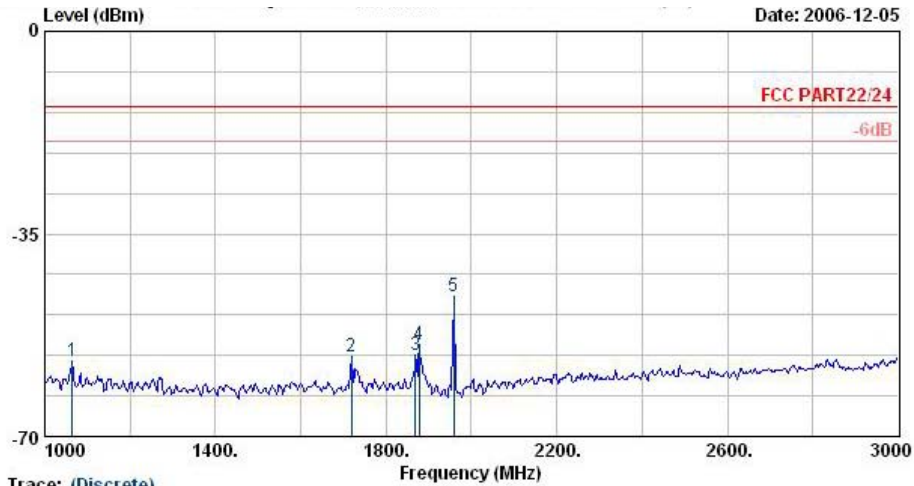
	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1 @	110.2	-53.00	-40.00	-13.00	-45.21	-7.79 Peak
2 @	266.0	-59.07	-46.07	-13.00	-51.88	-7.18 Peak
3 @	297.8	-56.65	-43.65	-13.00	-50.15	-6.50 Peak



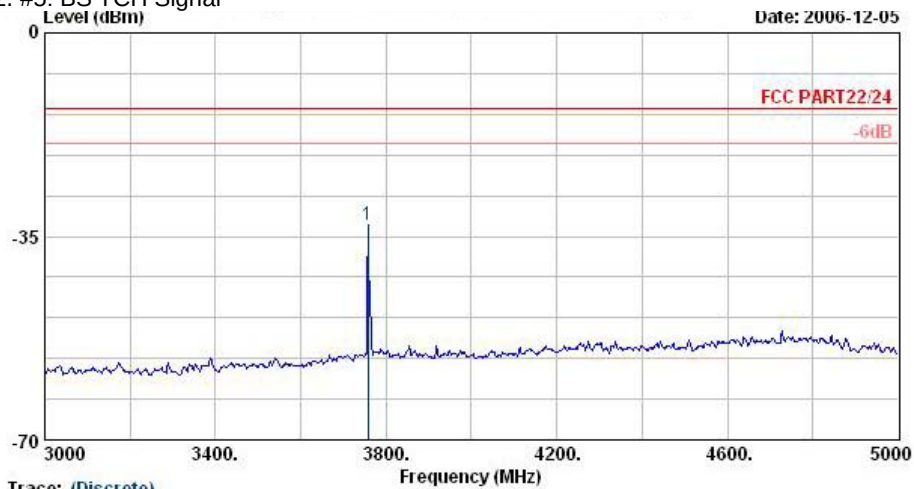
Trace: (Discrete)

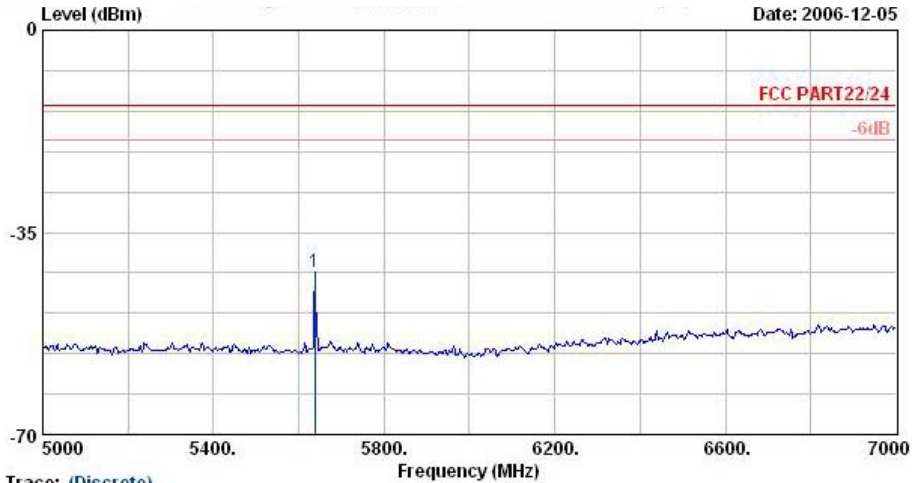
Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1 @	301.4	-57.22	-44.22	-13.00	-50.81	-6.42 Peak
2 @	533.8	-60.54	-47.54	-13.00	-57.81	-2.73 Peak
3 @	932.8	-60.03	-47.03	-13.00	-62.16	2.13 Peak

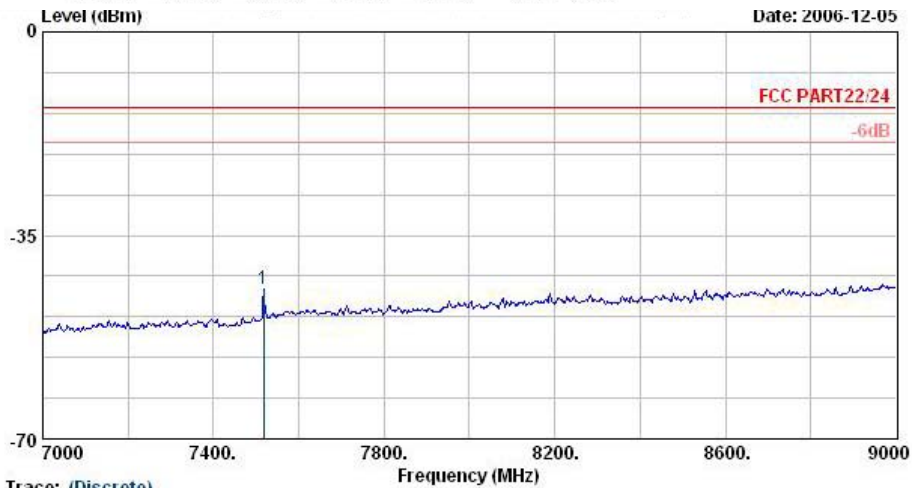


Remark: 1. #3: MS TCH Signal
2. #5: BS TCH Signal

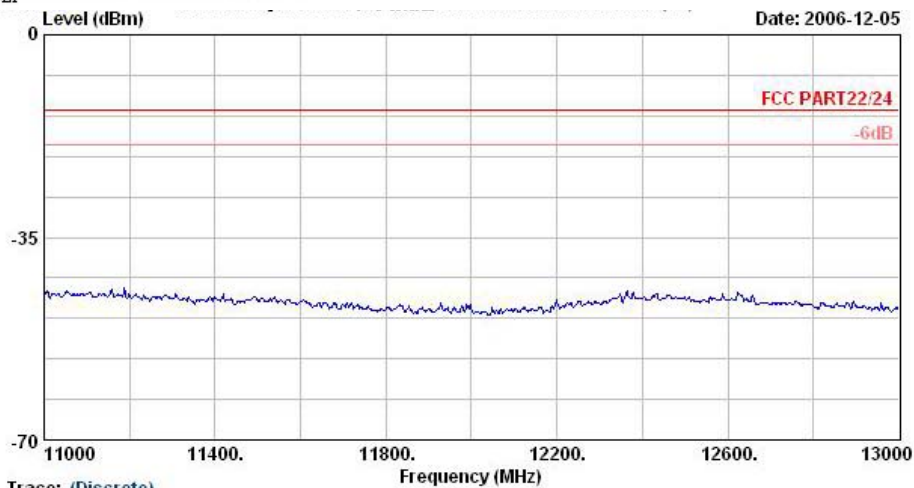
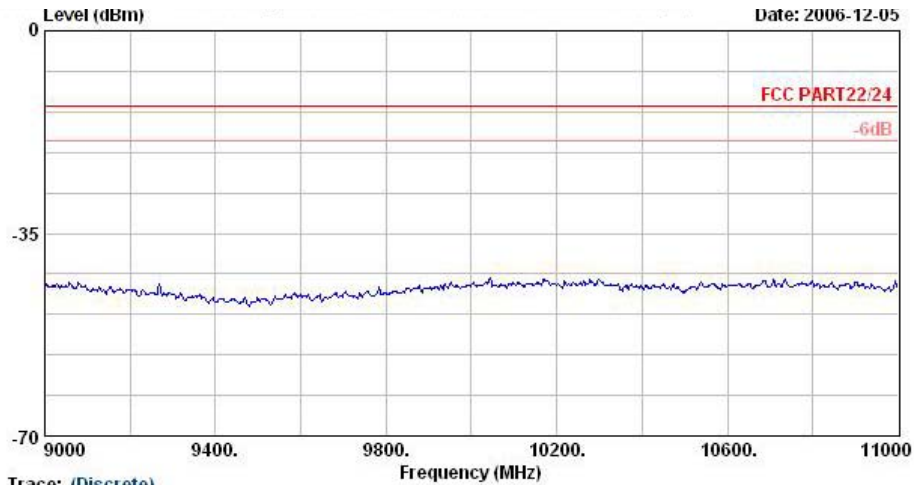


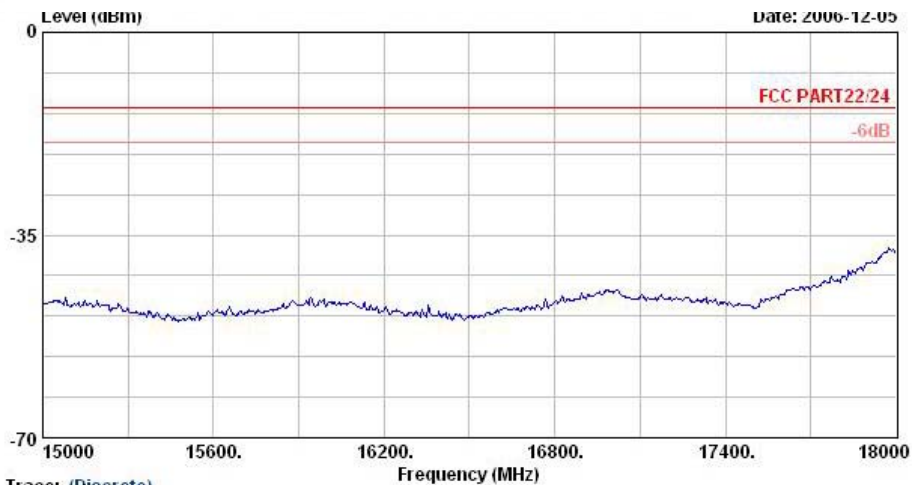
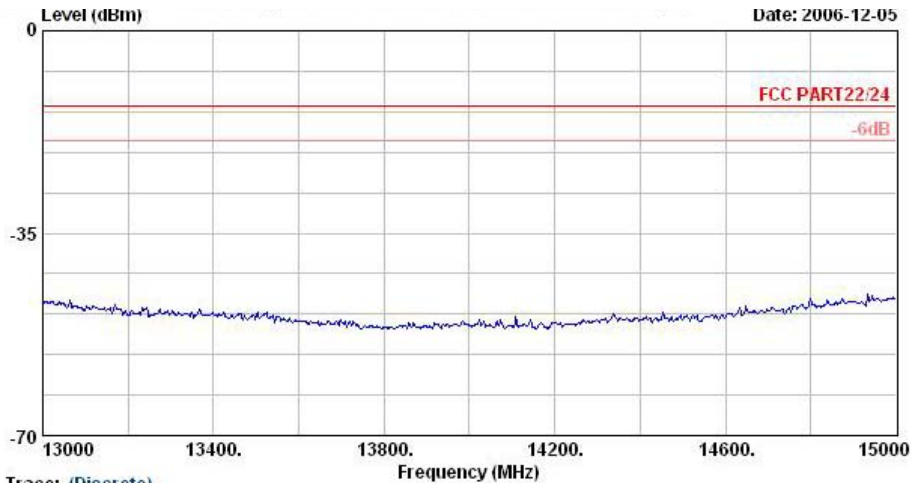


1 @



1 @



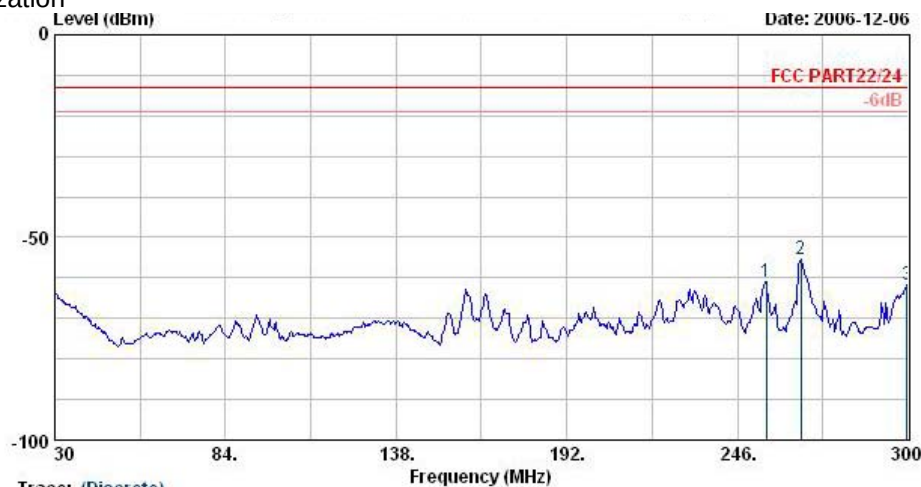


Remark : There is no more obvious emission except the listings above.



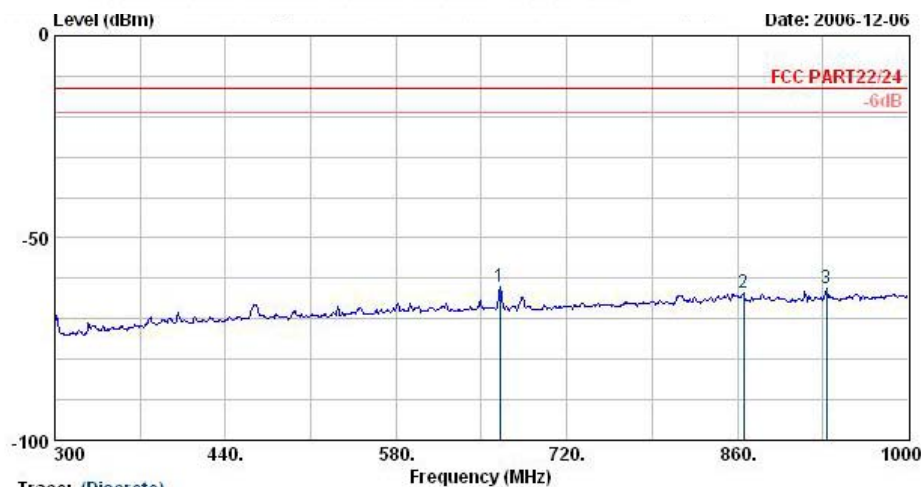
4.6.5.4 Mode 4

Horizontal Polarization



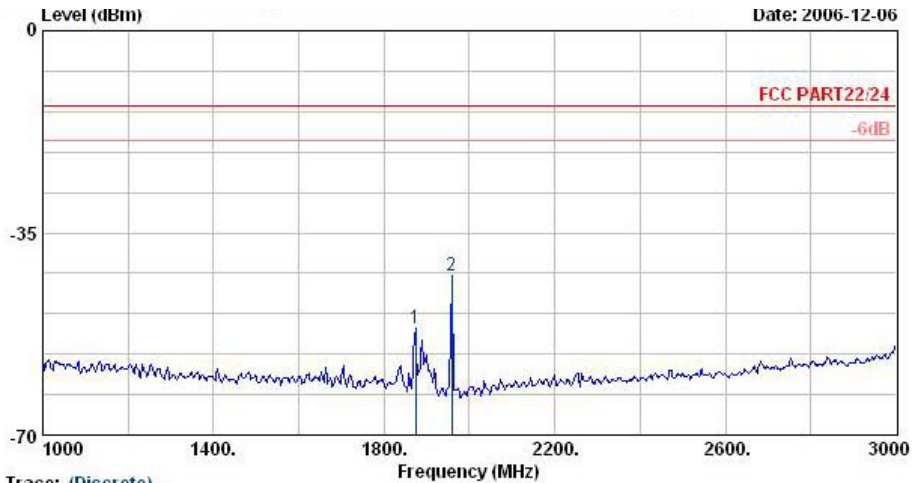
Trace: (Discrete)
Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1	255.2	-60.81	-47.81	-13.00	-49.33	-11.48	Peak
2	266.0	-55.35	-42.35	-13.00	-44.23	-11.12	Peak
3	299.7	-61.62	-48.62	-13.00	-51.67	-9.95	Peak



Trace: (Discrete)
Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1	665.4	-62.17	-49.17	-13.00	-59.10	-3.07	Peak
2	864.9	-63.45	-50.45	-13.00	-62.39	-1.06	Peak
3	932.8	-62.28	-49.28	-13.00	-61.88	-0.41	Peak

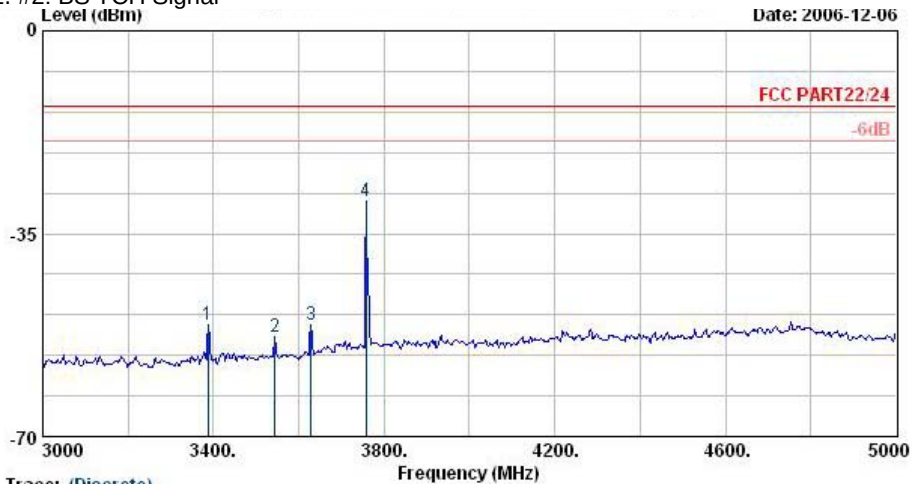


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SFURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	1874.0	-51.53			-51.02	-0.51	Peak
2 @	1958.0	-42.50			-41.39	-1.11	Peak

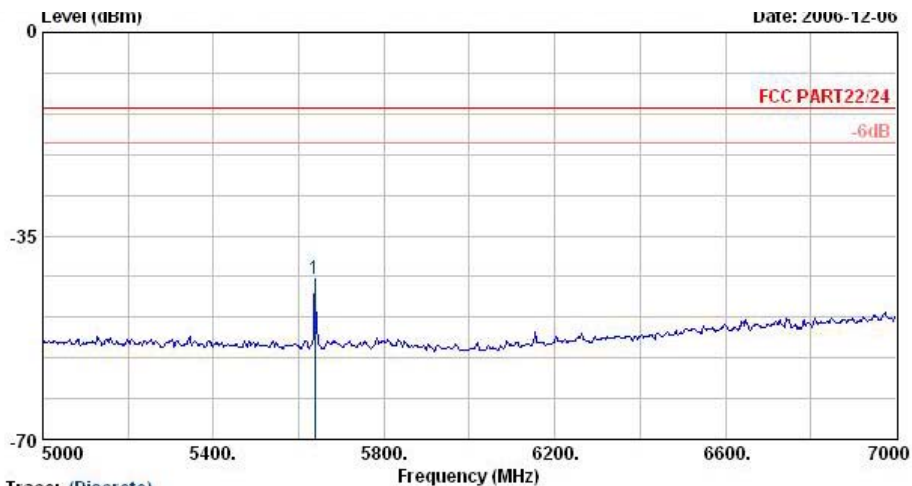
Remark: 1. #1: MS TCH Signal
2. #2: BS TCH Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SFURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

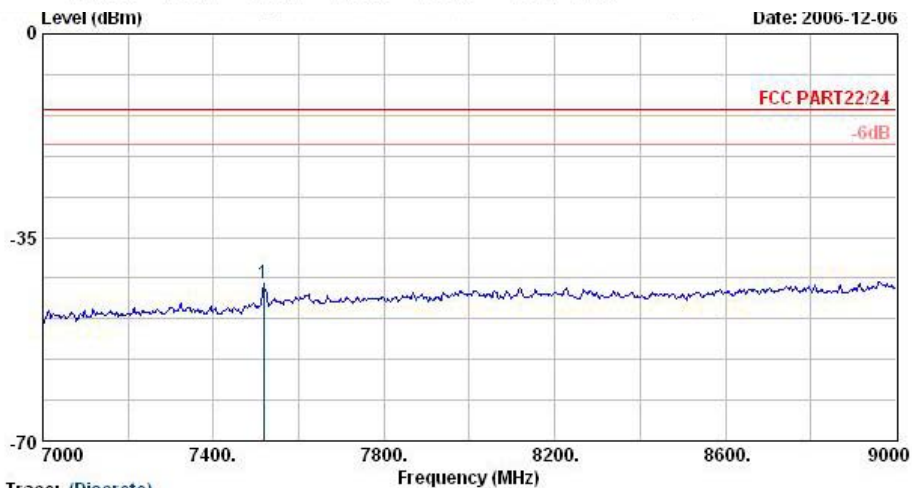
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	3388.0	-50.87	-37.87	-13.00	-56.48	5.61	Peak
2	3544.0	-52.80	-39.80	-13.00	-58.91	6.11	Peak
3	3628.0	-50.64	-37.64	-13.00	-57.24	6.60	Peak
4 @	3758.0	-29.44	-16.44	-13.00	-37.36	7.92	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	5638.0	-42.41	-29.41	-13.00	-52.38	9.97 Peak



Trace: (Discrete)

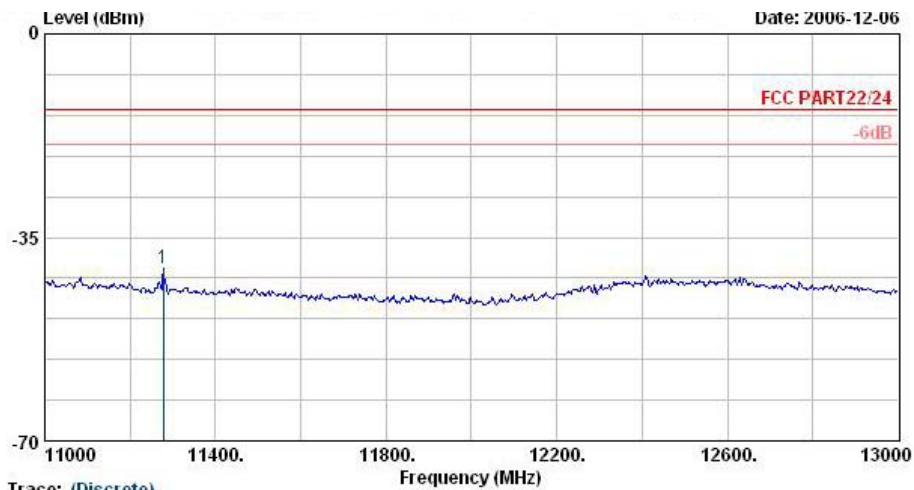
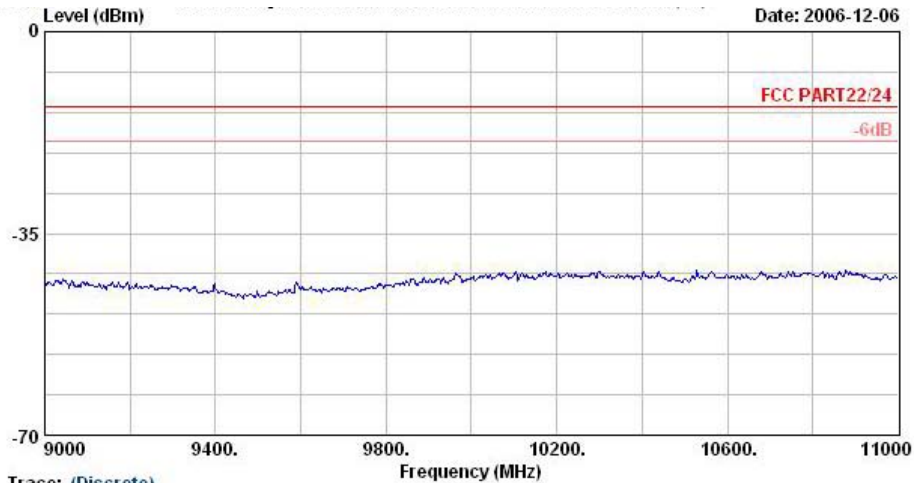
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	7518.0	-42.92	-29.92	-13.00	-58.73	15.80 Peak



FCC TEST REPORT

Report No. : FG6N2811

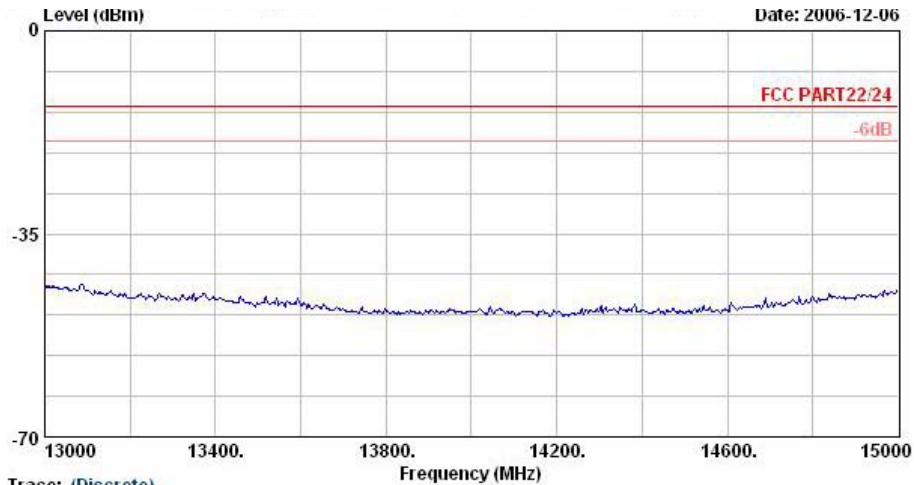


	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	11278.0	-40.22	-27.22	-13.00	-60.52	20.30	Peak



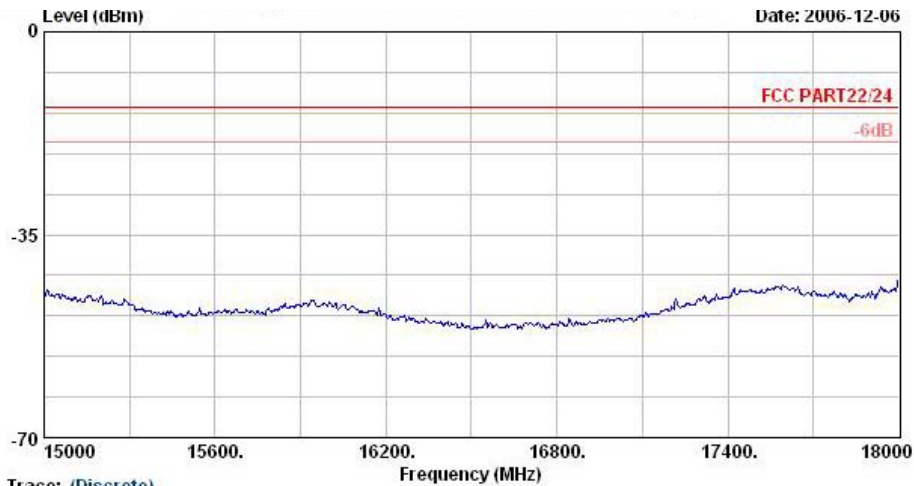
FCC TEST REPORT

Report No. : FG6N2811



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

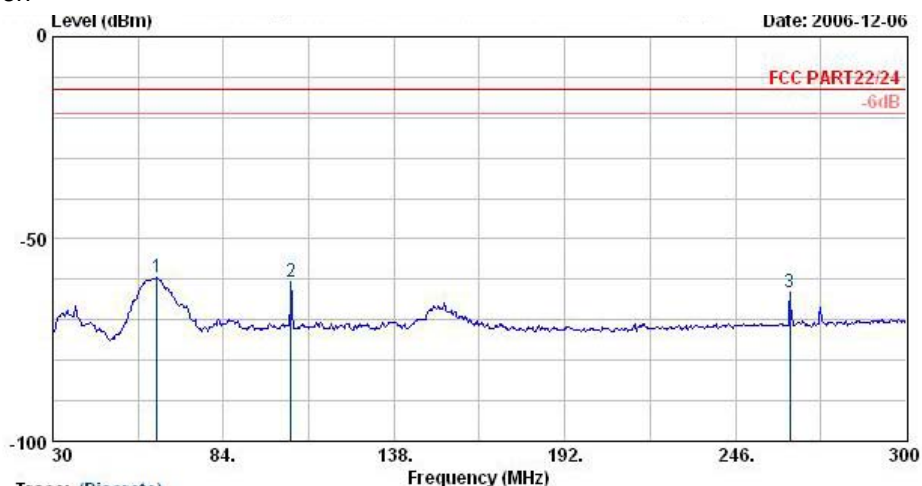


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1



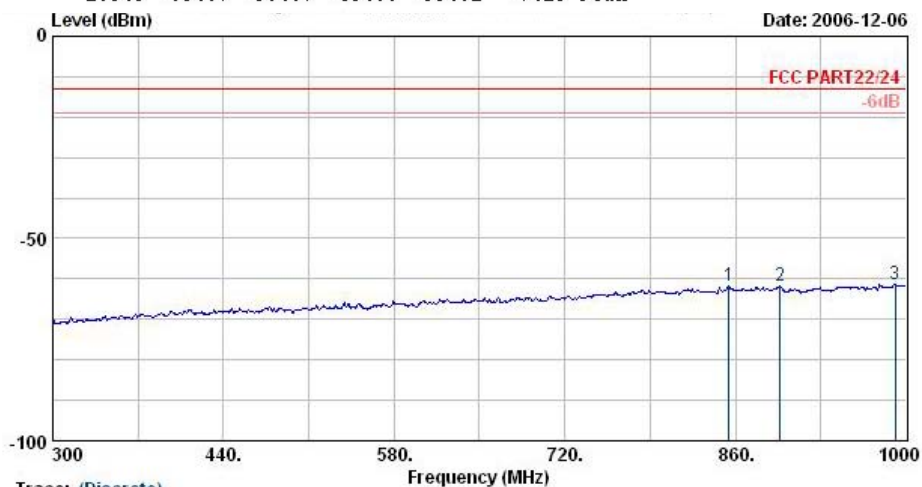
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

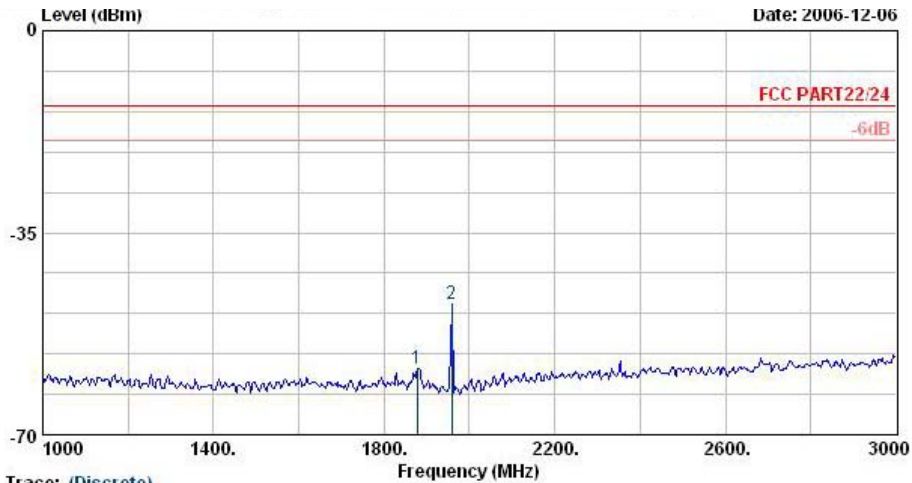
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	62.9	-59.55	-46.55	-13.00	-46.55	-13.00	Peak
2	105.3	-60.68	-47.68	-13.00	-52.94	-7.74	Peak
3	263.3	-63.07	-50.07	-13.00	-55.82	-7.25	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	854.4	-61.81	-48.81	-13.00	-63.31	1.50	Peak
2	896.4	-61.83	-48.83	-13.00	-63.66	1.83	Peak
3	990.9	-61.25	-48.25	-13.00	-63.85	2.59	Peak

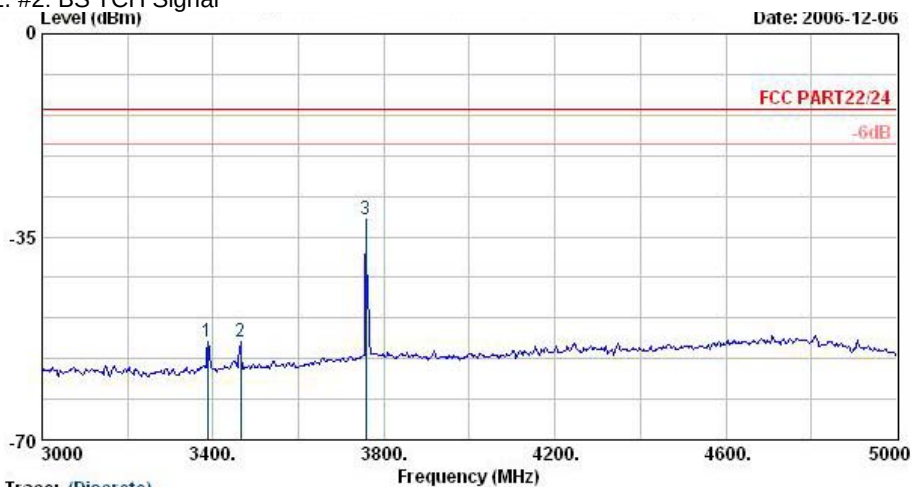


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	1878.0	-58.43			-58.03	-0.40	Peak
2	1958.0	-47.37			-46.78	-0.60	Peak

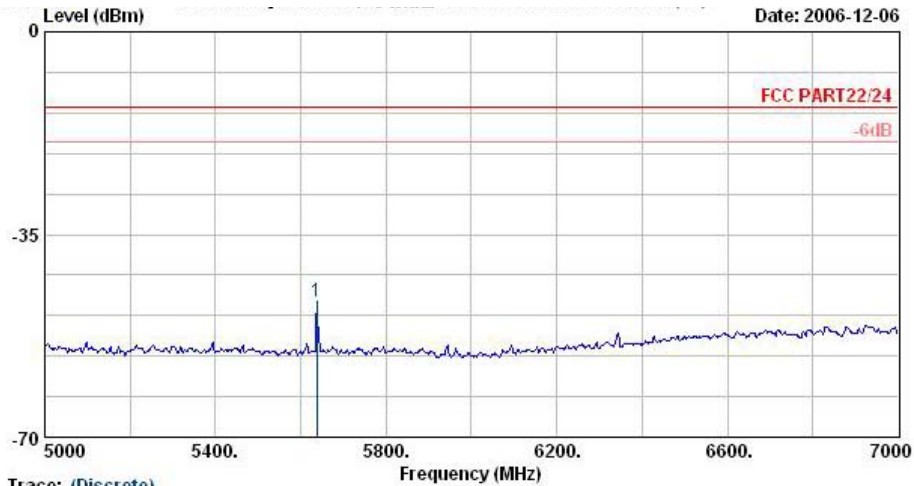
Remark: 1. #1: MS TCH Signal
2. #2: BS TCH Signal



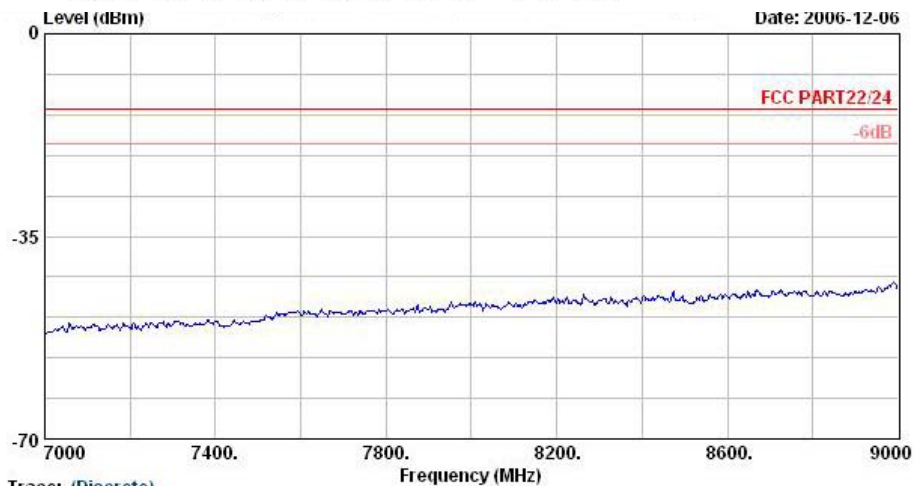
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	3388.0	-52.99	-39.99	-13.00	-57.66	4.67	Peak
2	3464.0	-53.18	-40.18	-13.00	-58.03	4.85	Peak
3 @	3758.0	-32.06	-19.06	-13.00	-38.70	6.64	Peak



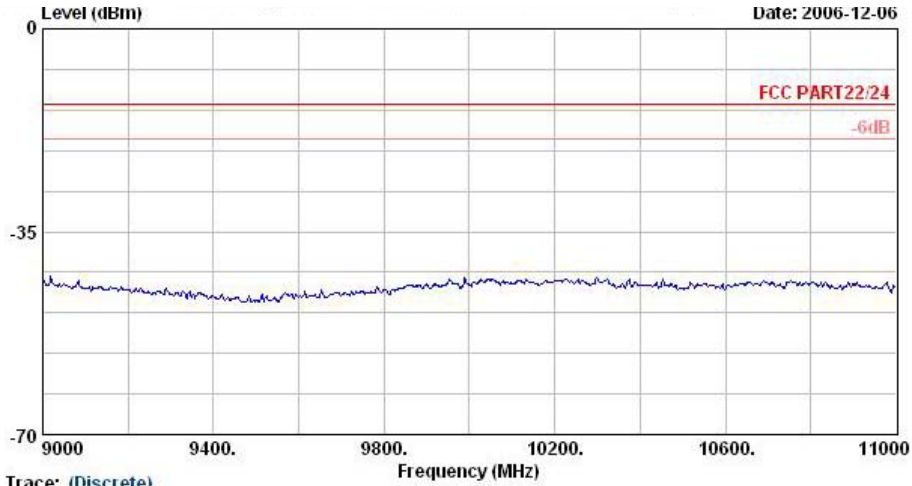
	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	dB
1 @	5638.0	-46.50	-33.50	-13.00	-55.16	8.65 Peak





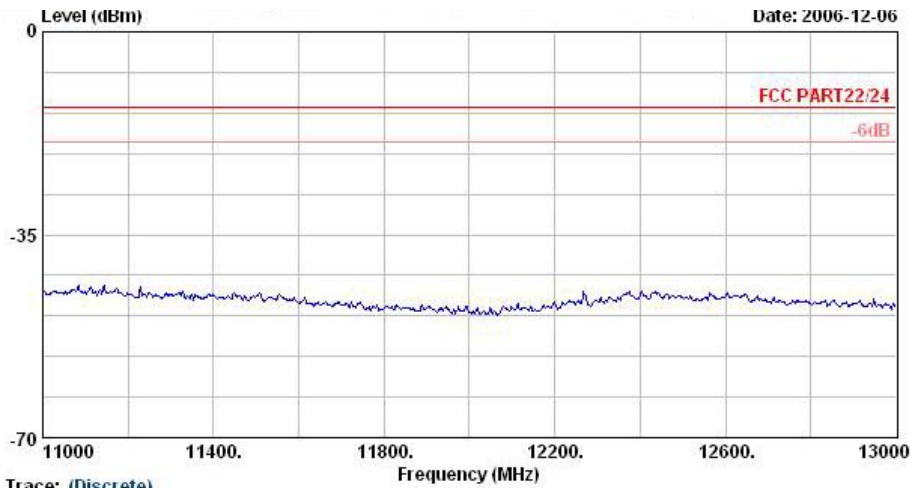
FCC TEST REPORT

Report No. : FG6N2811



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1



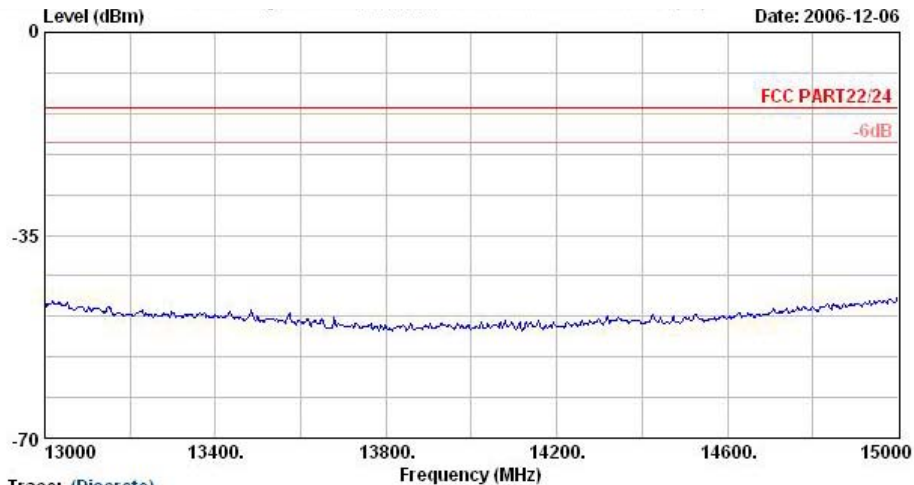
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1



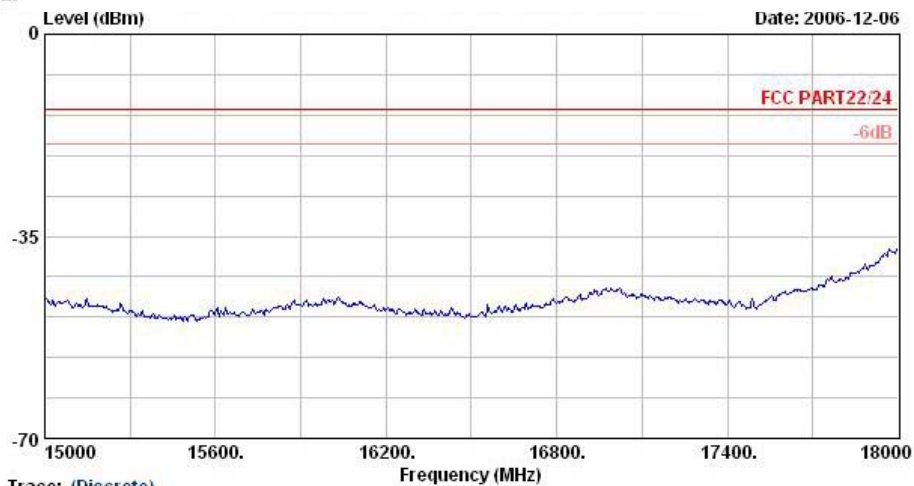
FCC TEST REPORT

Report No. : FG6N2811



Trace: (Discrete)

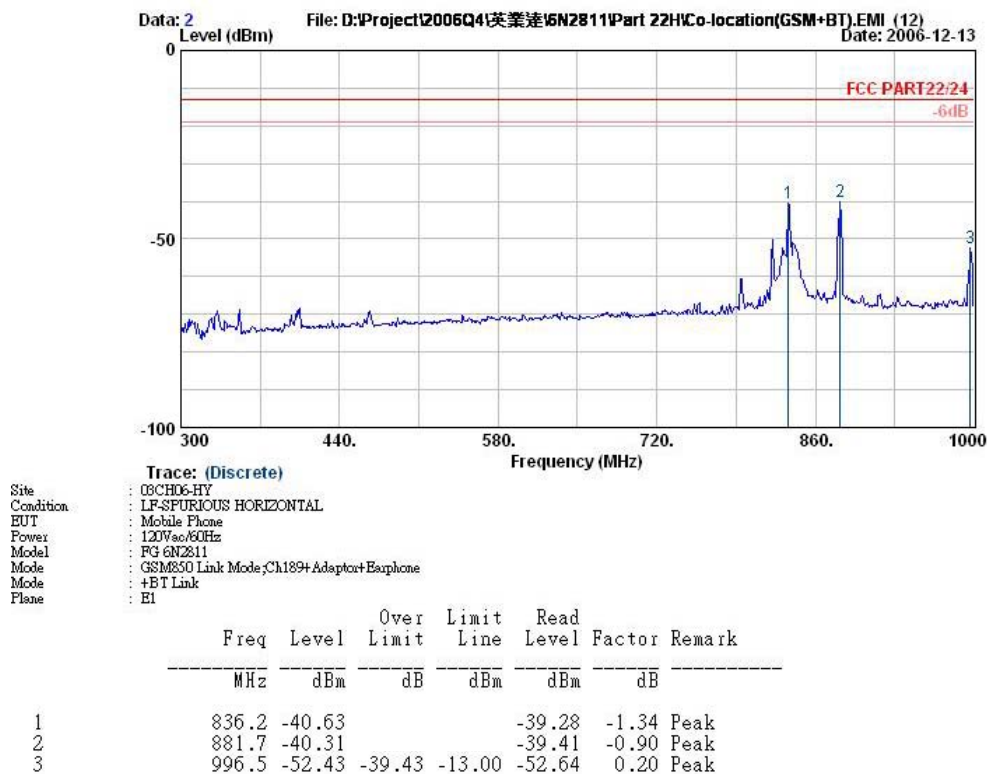
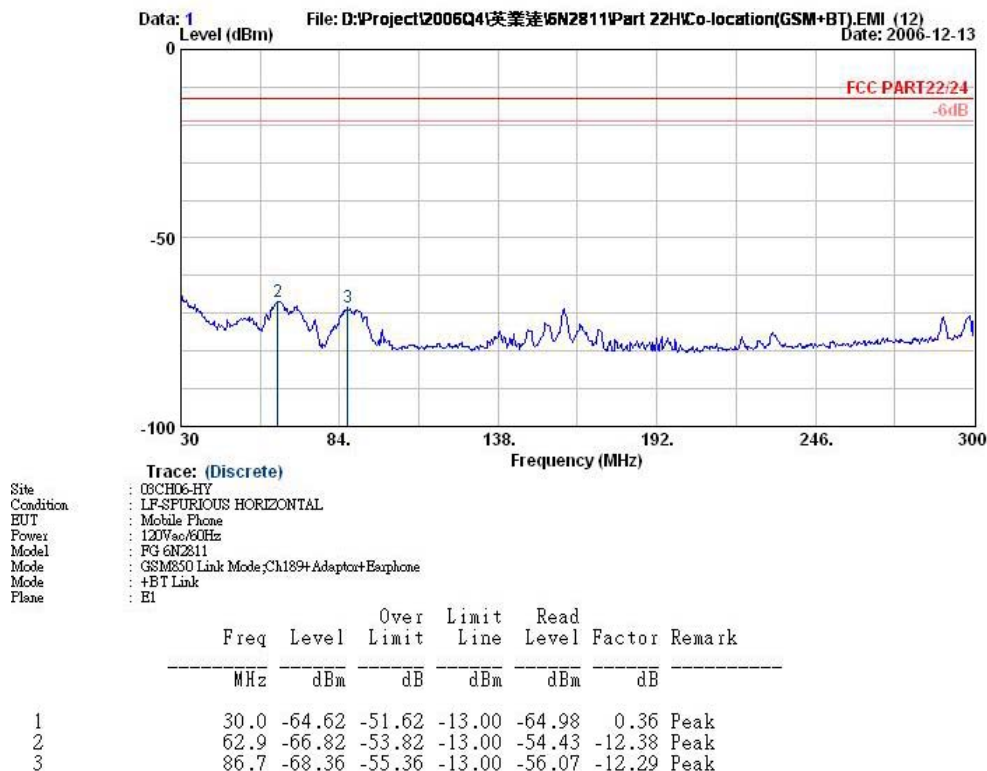
Site : 08CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1



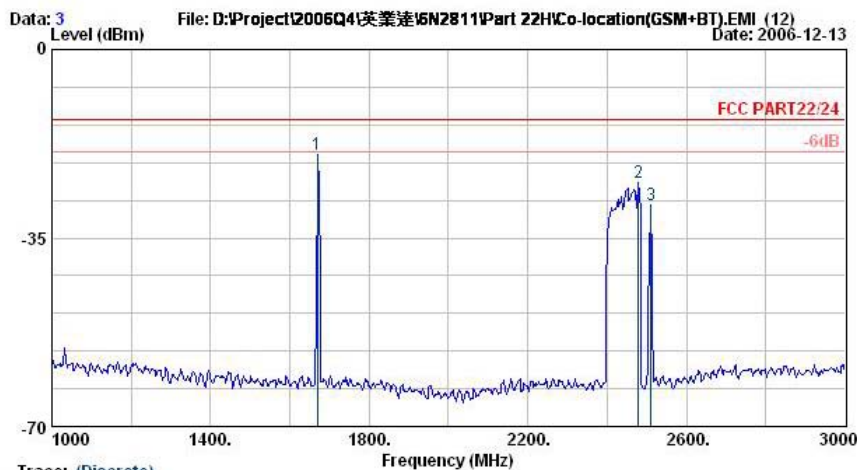
Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

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

4.6.5.5 Mode 5
Horizontal Polarization

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



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SFURIOUS HORIZONTAL

EUT : Mobile Phone

Power : 120Vac/60Hz

Model : FG 6N2811

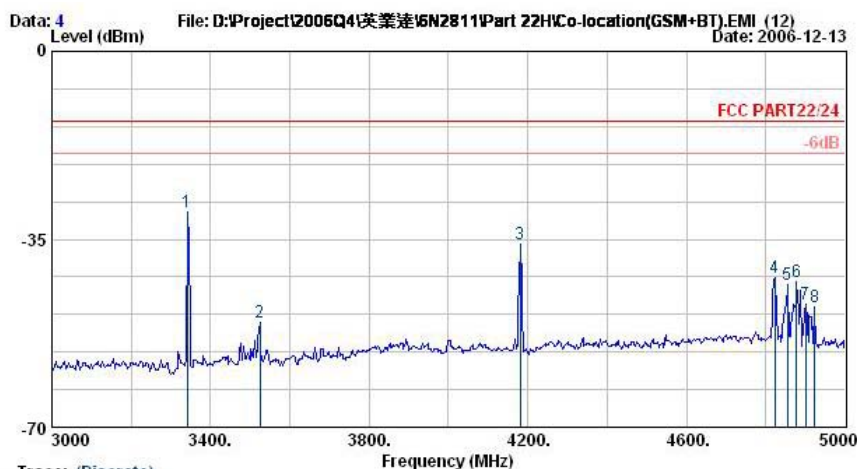
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone

Mode : +BT Link

Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	1670.0	-19.39	-6.39	-13.00	-19.61	0.22	Peak
2 @	2478.0	-24.70			-25.86	1.16	Peak
3 @	2510.0	-28.76	-15.76	-13.00	-29.96	1.20	Peak

Remark: 1. #1: BT Signal



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SFURIOUS HORIZONTAL

EUT : Mobile Phone

Power : 120Vac/60Hz

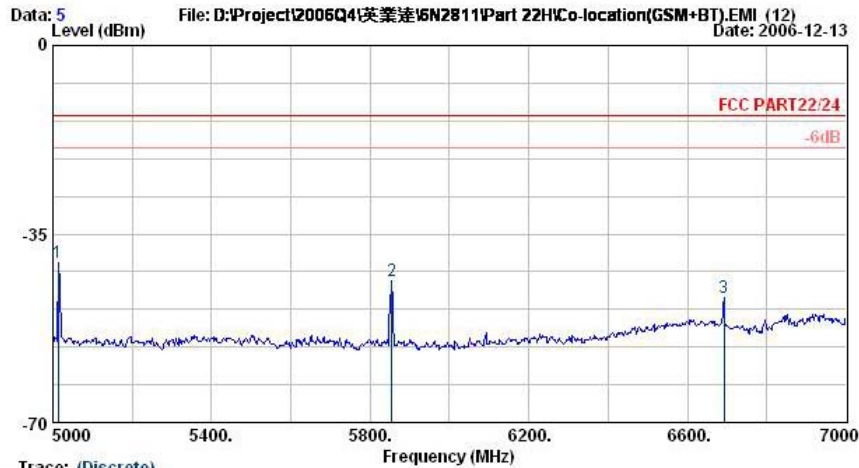
Model : FG 6N2811

Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone

Mode : +BT Link

Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	3342.0	-30.05	-17.05	-13.00	-35.45	5.41	Peak
2	3524.0	-50.52	-37.52	-13.00	-56.41	5.89	Peak
3	4180.0	-35.97	-22.97	-13.00	-45.76	9.79	Peak
4	4822.0	-42.19	-29.19	-13.00	-53.74	11.55	Peak
5	4854.0	-43.53	-30.53	-13.00	-54.88	11.35	Peak
6	4878.0	-42.89	-29.89	-13.00	-54.08	11.19	Peak
7	4900.0	-47.20	-34.20	-13.00	-58.22	11.02	Peak
8	4924.0	-47.74	-34.74	-13.00	-58.57	10.83	Peak



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SFURIOUS HORIZONTAL

EUT : Mobile Phone

Power : 120Vac/60Hz

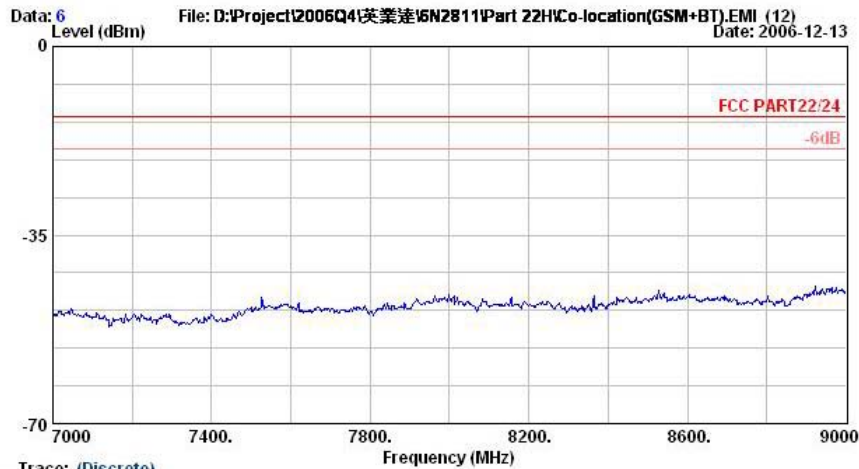
Model : FG 6N2811

Mode : GSM250 Link Mode;Ch189+Adaptor+Earphone

Mode : +BT Link

Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	5014.0	-40.24	-27.24	-13.00	-50.54	10.30	Peak
2	5854.0	-43.69	-30.69	-13.00	-53.91	10.22	Peak
3	6692.0	-46.95	-33.95	-13.00	-60.09	13.14	Peak



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SFURIOUS HORIZONTAL

EUT : Mobile Phone

Power : 120Vac/60Hz

Model : FG 6N2811

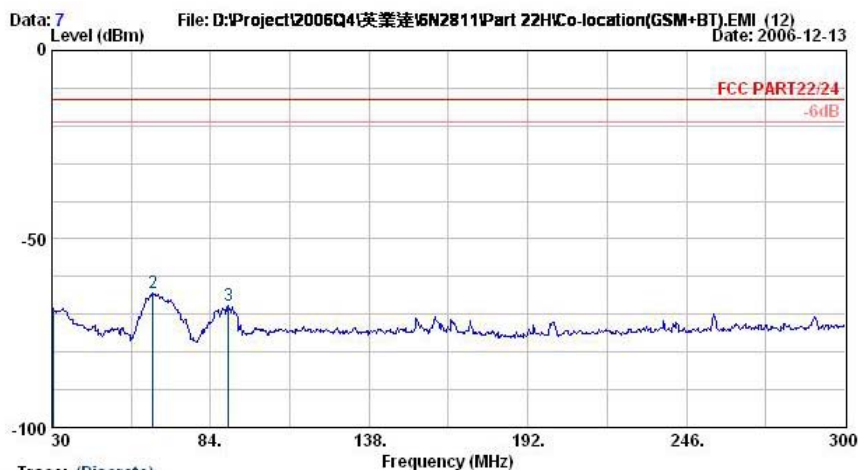
Mode : GSM250 Link Mode;Ch189+Adaptor+Earphone

Mode : +BT Link

Plane : E1



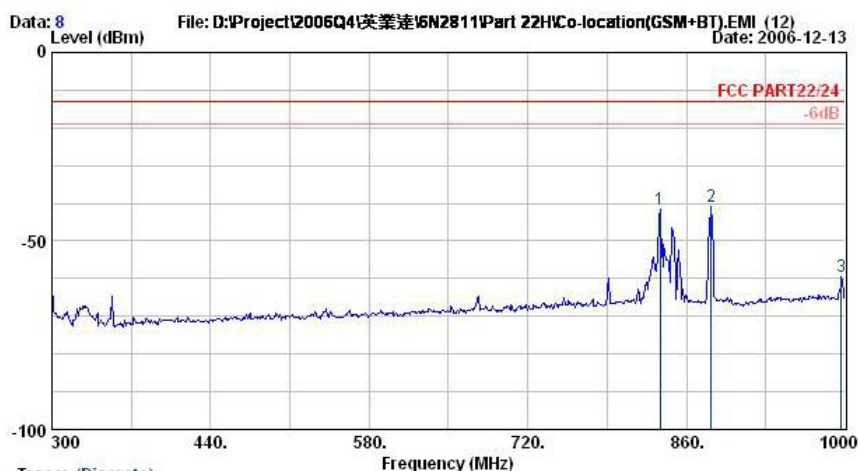
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : +BT Link
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	30.3	-68.48	-55.48	-13.00	-59.41	-9.07	Peak
2	64.3	-64.43	-51.43	-13.00	-51.57	-12.86	Peak
3	90.2	-67.63	-54.63	-13.00	-58.54	-9.09	Peak

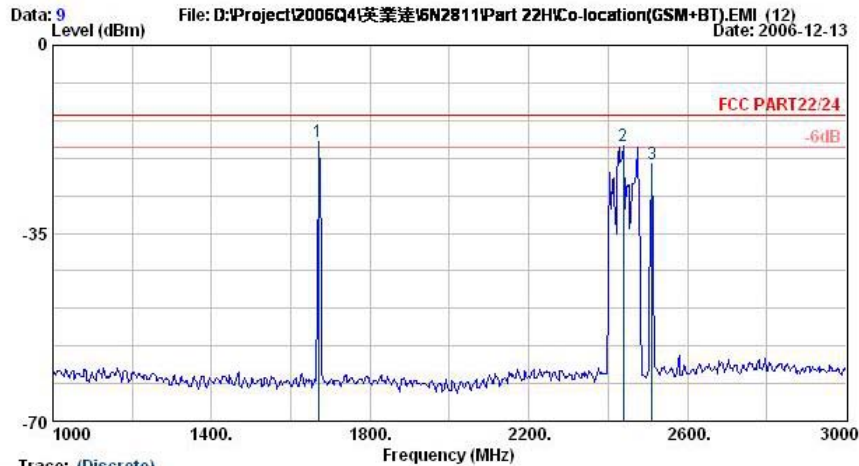


Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : +BT Link
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	836.9	-41.46			-42.82	1.36	Peak
2	881.7	-40.99			-42.70	1.72	Peak
3	996.5	-59.38	-46.38	-13.00	-62.01	2.63	Peak

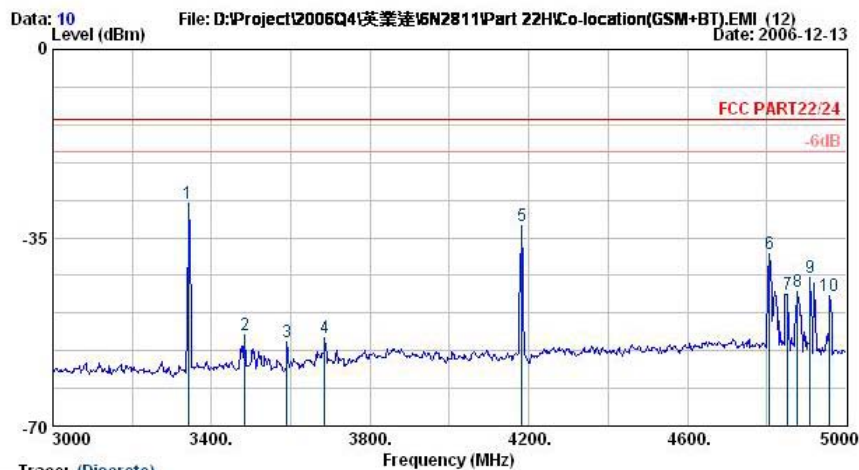
Remark: 1. #1: MS TCH Signal
2. #2: BS TCH Signal



Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Mode : +BT Link
Plane : E1

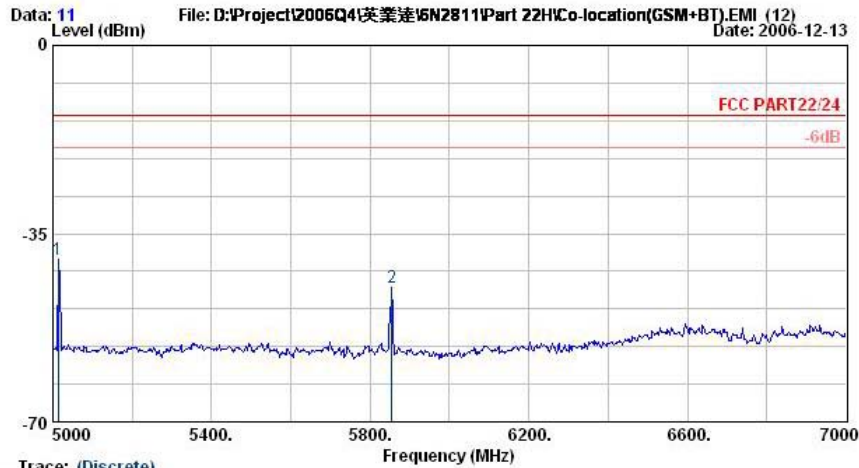
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dB	dBm	dB			
1 @	1670.0	-17.95	-4.95	-13.00	-17.47	-0.48	Peak
2 @	2438.0	-18.70			-20.71	2.01	Peak
3 @	2510.0	-22.18	-9.18	-13.00	-24.45	2.27	Peak

Remark: 1. #1: BT Signal

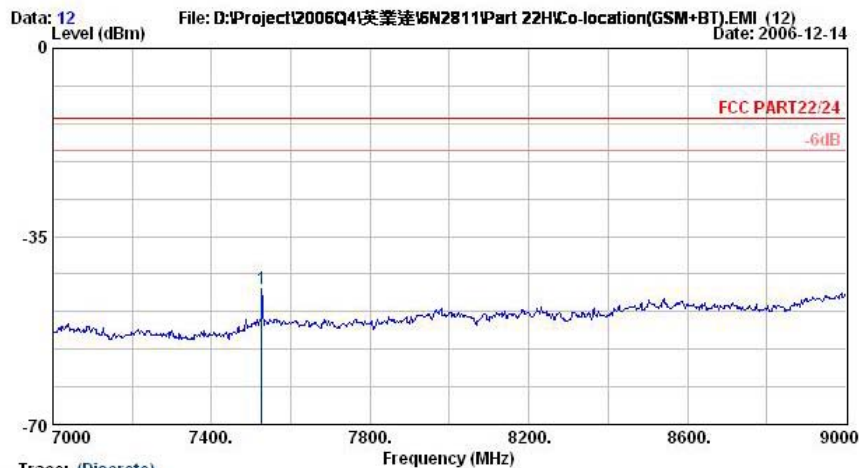


Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Mode : +BT Link
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dB	dBm	dB			
1 @	3342.0	-28.74	-15.74	-13.00	-33.21	4.47	Peak
2	3484.0	-52.96	-39.96	-13.00	-57.81	4.85	Peak
3	3590.0	-54.43	-41.43	-13.00	-59.77	5.34	Peak
4	3686.0	-53.62	-40.62	-13.00	-59.66	6.05	Peak
5	4182.0	-32.86	-19.86	-13.00	-41.22	8.36	Peak
6	4806.0	-38.03	-25.03	-13.00	-48.47	10.44	Peak
7	4852.0	-45.44	-32.44	-13.00	-55.47	10.03	Peak
8	4878.0	-45.06	-32.06	-13.00	-54.91	9.85	Peak
9	4910.0	-42.46	-29.46	-13.00	-52.12	9.67	Peak
10	4958.0	-45.75	-32.75	-13.00	-55.01	9.25	Peak



	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	5014.0	-39.94	-26.94	-13.00	-48.85	8.91	Peak
2	5854.0	-45.07	-32.07	-13.00	-53.88	8.81	Peak



	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	7526.0	-44.81	-31.81	-13.00	-58.18	13.37	Peak

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

4.7 Frequency Stability (Temperature Variation)

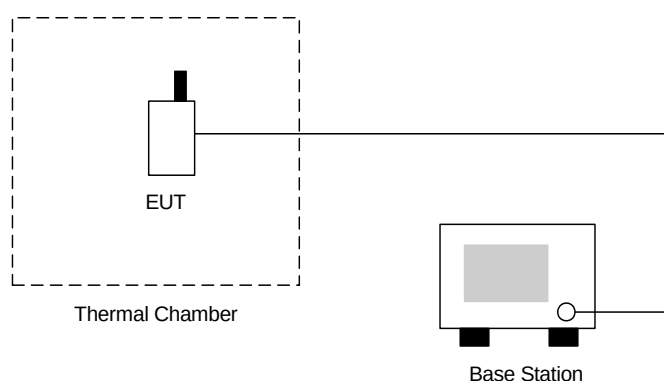
4.7.1 Measurement Instrument

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 : GSM850 (GSM) CH189

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-	-	2.5	Passed
-20	42	0.02		
-10	28	0.01		
0	-22	-0.01		
10	-34	-0.02		
20	35	0.02		
30	-44	-0.02		
40	-48	-0.03		
50	-66	-0.03		

▪ Test Mode : GSM850 (EDGE8) CH189

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-	-	2.5	Passed
-20	-44	-0.02		
-10	37	0.02		
0	-35	-0.02		
10	22	0.01		
20	-18	-0.01		
30	26	0.01		
40	32	0.02		
50	37	0.02		

▪ Test Mode : PCS1900 (GSM) CH661

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-	-	2.5	Passed
-20	-86	-0.05		
-10	63	0.03		
0	-50	-0.03		
10	38	0.02		
20	25	0.01		
30	35	0.02		
40	-53	-0.03		
50	58	0.03		



▪ Test Mode : PCS1900 (EDGE8) CH661

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-	-	2.5	Passed
-20	54	0.03		
-10	52	0.03		
0	-38	-0.02		
10	22	0.01		
20	38	0.02		
30	-33	-0.02		
40	35	0.02		
50	38	0.02		

Remark : The DUT can not be turned on at -30 °C.

4.8 Frequency Stability (Voltage Variation)

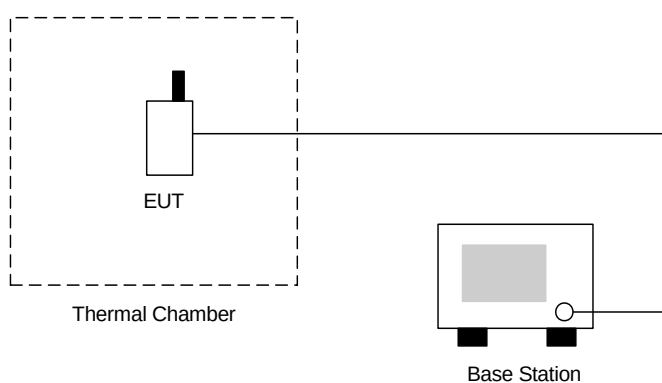
4.8.1 Measurement Instrument

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 : GSM850 (GSM) CH189

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	27.0	0.01	2.5	Passed
BEP	-22.0	-0.01		
4.3	35.0	0.02		

- Test Mode : GSM850 (EDGE8) CH189

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	-14.0	-0.01	2.5	Passed
BEP	16.0	0.01		
4.3	20.0	0.01		

- Test Mode : PCS1900 (GSM) CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	28.0	0.01	2.5	Passed
BEP	-52.0	-0.03		
4.3	28.0	0.01		

- Test Mode : PCS1900 (EDGE8) CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	11.0	0.01	2.5	Passed
BEP	15.0	0.01		
4.3	18.0	0.01		

Remark:

1. Normal Voltage=3.7V.
2. Battery End Point (BEP)=3.4 V.

5 List of Measurement Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100132	9kHz – 2.75GHz	Jul. 04, 2006	Jul. 04, 2007	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/004	9kHz – 30MHz	Apr. 28, 2006	Apr. 28, 2007	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Apr. 19, 2006	Apr. 19, 2007	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450Hz	N/A	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 – 60Hz	N/A	N/A	Conduction (CO01-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9kHz – 30MHz	Dec. 04, 2006	Dec. 04, 2007	Conduction (CO01-HY)
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Jul. 25, 2006	Jul. 24, 2007	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jun. 28, 2006	Jun. 27, 2007	Radiation (03CH06-HY)
Controller	CT	SC100	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 21, 2006	Nov. 21, 2008	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 1, 2005	Feb. 1, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F	997165	26G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Jan. 23, 2006	Jan. 22, 2008	Radiation (03CH06-HY)
Power Sensor	Agilent	E9327A	US40441548	N/A	Feb. 06, 2006	Feb. 05, 2007	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=2Uc(y)	4.72				

END OF TEST REPORT