



FCC TEST REPORT

for

47 CFR Part 22H, and 24E

Equipment : Quad-band Smart Phone
(GSM850/GSM900/DCS1800/PCS1900/Bluetooth/WLAN)
Trade Name : ASUS
Model No. : P525
FCC ID : MSQP525
Tx Frequency Range : GSM850 : 824.2~848.8 MHz
PCS1900 : 1850.2~1909.8 MHz
Max. ERP/EIRP Power : GSM850 : 0.95 W
PCS1900 : 0.37 W
Emission Designator : 300KGXW
Applicant : ASUSTeK COMPUTER INC.
No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

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- The data shown in this test report were carried out during Jul. 28, 2006 at **Sporton International Inc. LAB.**
- Report No.: FG632921-02-B, Report Version: Rev. 01.

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Report Version: Rev. 01



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1. General Information

1.1. Applicant

ASUSTeK COMPUTER INC.

No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

1.2 Manufacturer

1. ASUSTeK Computer Inc.

No. 5, Shing Yeh Street, 333 Kwei Shan Hsiang, Toyuan Hsien, Taiwan

2. North Tec Asia (Shanghai) Limited

2502, Hu Nan Highway, Kangqiao Industrial Zone, Pudong , Shanghai

1.3 Basic Description of Equipment under Test

Equipment : Quad-band Smart Phone (GSM850/GSM900/DCS1800/PCS1900/Bluetooth/WLAN)
Trade Name : ASUS
Model No. : P525
FCC ID : MSQP525
Power Supply Type : Switching
AC Power Cord : AC 120V, Non-shielded, Wall-mount, 1.8 meter, 2 pin
Adapter : PI, P005WA05OW
Battery : ASUS, SBP-06
Earphone : Cotron, CHM-201STV01017G
USB Cable : Foxlink, FY663084-A



1.4 Feature of Equipment under Test

DUT Type :	Quad-band Smart Phone (GSM850/GSM900/DCS1800/PCS1900/Bluetooth/WLAN)
Trade Name :	ASUS
Model Name :	P525
FCC ID :	MSQP525
Tx Frequency :	GSM850 : 824 ~ 849 MHz PCS1900 : 1850 ~1910 MHz Bluetooth : 2400~2483.5 MHz 802.11b : 2400 ~ 2483.5 MHz
Rx Frequency :	GSM850 : 869 ~ 894 MHz PCS1900 : 1930 ~ 1990 MHz Bluetooth : 2400~2483.5 MHz 802.11b : 2400 ~ 2483.5 MHz
Number of Channels :	Bluetooth : 79 802.11b : 11
Carrier Frequency of Each Channel :	Bluetooth : 2402+n*1 MHz; n=0~78 802.11b : 2412+(n-1)*5 MHz; n=1~11
Antenna Connector :	N/A
Antenna Type :	GSM850/PCS1900 : Fixed Internal Bluetooth : Chip Antenna 802.11b : PIFA Antenna
Antenna Gain :	Bluetooth : 0 dBi 802.11b : 0 dBi
Maximum Output Power to Antenna :	GSM850 : 31.72 dBm PCS1900 : 28.75 dBm Bluetooth : 3.54 dBm 802.11b : 16.08 dBm
Maximum ERP/EIRP :	GSM850 : 0.95 W (29.78 dBm) PCS1900 : 0.37 W (25.66 dBm)
HW Version :	Rev. 1.2
SW Version :	V3.1.0 CHT
Power Rating (DC/AC , Voltage and Current of RF element or PA) :	3.7V / 1300mA
Digital Modulation Emission :	GSM850/PCS1900 : GMSK Bluetooth : GFSK 802.11b : DSSS (DBPSK,DQPSK,CCK)
Type of Emission :	GSM : 300KGXW
DUT Stage :	Identical Prototype

1.5 Report Date

EUT Received : Jul. 12, 2006

Report Date : Jul. 31, 2006

2 Test Configuration of Equipment under Test

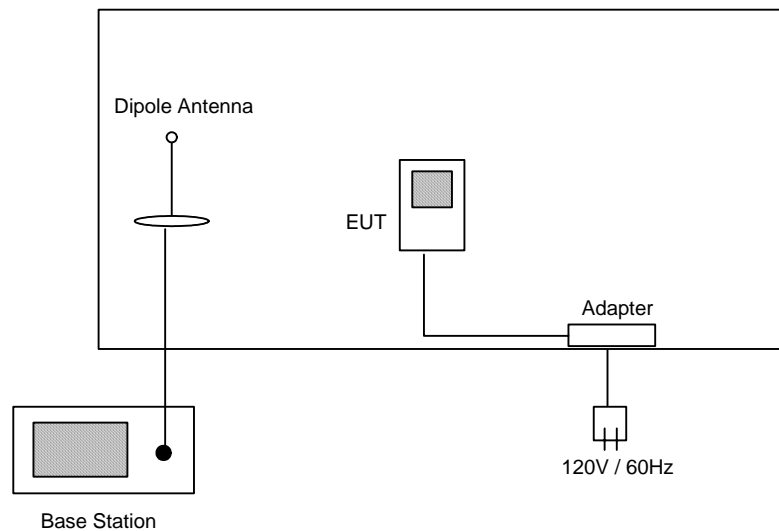
2.1 Test Manner

- a. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- b. During all testings, EUT is in link mode with base station emulator at maximum power level. (PCL=5 for GSM850 or PCL=0 for PCS1900)
- c. Frequency range investigated: radiated emission 30 MHz to 9000 MHz for GSM850; 30MHz to 19000 MHz for PCS1900.

2.2 Test Mode

Application	GSM 850	PCS 1900
Radiated Emission	<input checked="" type="checkbox"/> Mode 1: GSM850 Link Mode_CH189 <input checked="" type="checkbox"/> Mode 3: GSM850 Link Mode_CH189 + WLAN Link_CH01	<input checked="" type="checkbox"/> Mode 2: PCS1900 Link Mode_CH661
Conducted Measurement	<input checked="" type="checkbox"/> Mode 1: GSM850 Link Mode_CH189	<input checked="" type="checkbox"/> Mode 2: PCS1900 Link Mode_CH661

2.3 Connection Diagram of Test System



2.4 Ancillary Equipment List

Item	Equipment	Model No.	Serial No.
1.	Base Station(R&S)	CMU200	N/A



3. General Information of Test Site

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-318-0055

Test Site No : OTA02-HY, 03CH06-HY

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC.

3.1 Test Voltage

120V/ 60Hz

3.2 Test in Compliance with

47 CFR Part 22H, 24E, and Part 2

3.3 Frequency Range Investigated

- a. Radiation: from 30MHz to 9000MHz for GSM850.
- b. Radiation: from 30 MHz to 19000 MHz for PCS1900.

3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



4. Test Data and Test Result

4.1 List of Measurements and Examinations

FCC Rule	DESCRIPTION OF TEST	Result	Section
§2.1046	RF Output Power	Passed	4.2
§ 22.913 §24.232	ERP / EIRP	Passed	4.3
§2.1049, § 22.917, § 24.238(b)	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§2.1051	Conducted Emission	Passed	4.5
§2.1053	Field Strength of Spurious Radiation	Passed	4.6
§2.1055, § 22.355, §24.235	Frequency Stability vs. Temperature	Passed	4.7
§2.1055, §22.355, §24.235	Frequency Stability vs. Voltage	Passed	4.8

4.2 RF Output Power

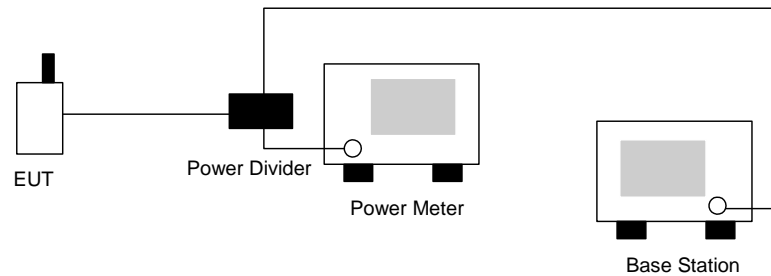
4.2.1 Measurement Instruments :

As described in chapter 5 of this test report.

4.2.2 Test Procedure :

1. The transmitter output was connected to power meter and base station through power divider.
2. Set EUT at PCL=5 for GSM850 and/or PCL=0 for PCS1900 maximum power through base station,.
3. Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout :



4.2.4 Test Result :

Bands	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
GSM850	128	824.2 (Low)	31.63	1.455
	189	836.4 (Mid)	31.67	1.469
	251	848.8 (High)	31.72	1.486
PCS1900	512	1850.2 (Low)	28.75	0.750
	661	1880.0 (Mid)	28.43	0.697
	810	1909.8 (High)	28.31	0.678



4.3 ERP / EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-A.

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

1. The EUT was placed on a rotatable table with 1.0 meter height in an fully anechoic chamber.
2. The EUT was set 1.2 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 radiated power.
4. The height of the receiving antenna is also kept at 1.0M height.
5. Taking the record of maximum ERP/EIRP.
6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
7. The conducted power at the terminal of the dipole antenna is measured.
8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
9. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

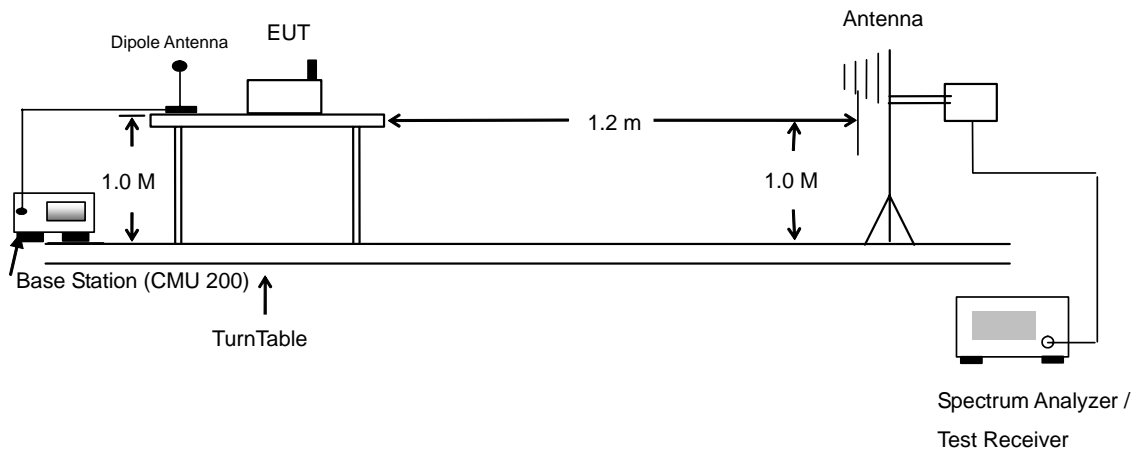
$E_s = R_s + AF$

AF (dB/m) : Receive antenna factor

R_t : The highest received signal in Spectrum Analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

4.3.3 Test Setup Layout of ERP/EIRP





4.3.4 Test Result

GSM850 Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-34.74	-48.12	0.00	-1.08	12.30	0.02
836.40	-32.51	-48.28	0.00	-0.93	14.84	0.03
848.80	-31.63	-48.35	0.00	-0.76	15.96	0.04
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-20.81	-47.97	0.00	-1.08	26.08	0.41
836.40	-18.41	-48.01	0.00	-0.93	28.67	0.74
848.80	-17.51	-48.05	0.00	-0.76	29.78	0.95

PCS1900 Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-32.29	-51.88	0.00	1.96	21.55	0.14
1880.00	-33.00	-52.99	0.00	2.00	21.99	0.16
1909.80	-33.74	-54.28	0.00	1.98	22.52	0.18
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-28.43	-52.13	0.00	1.96	25.66	0.37
1880.00	-30.15	-53.17	0.00	2.00	25.02	0.32
1909.80	-31.02	-54.13	0.00	1.98	25.09	0.32

4.4 Occupied Bandwidth and Band Edge Measurement

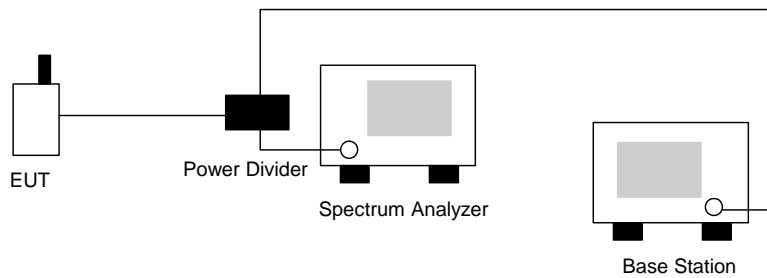
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers were measured.
3. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly $BW/100$.

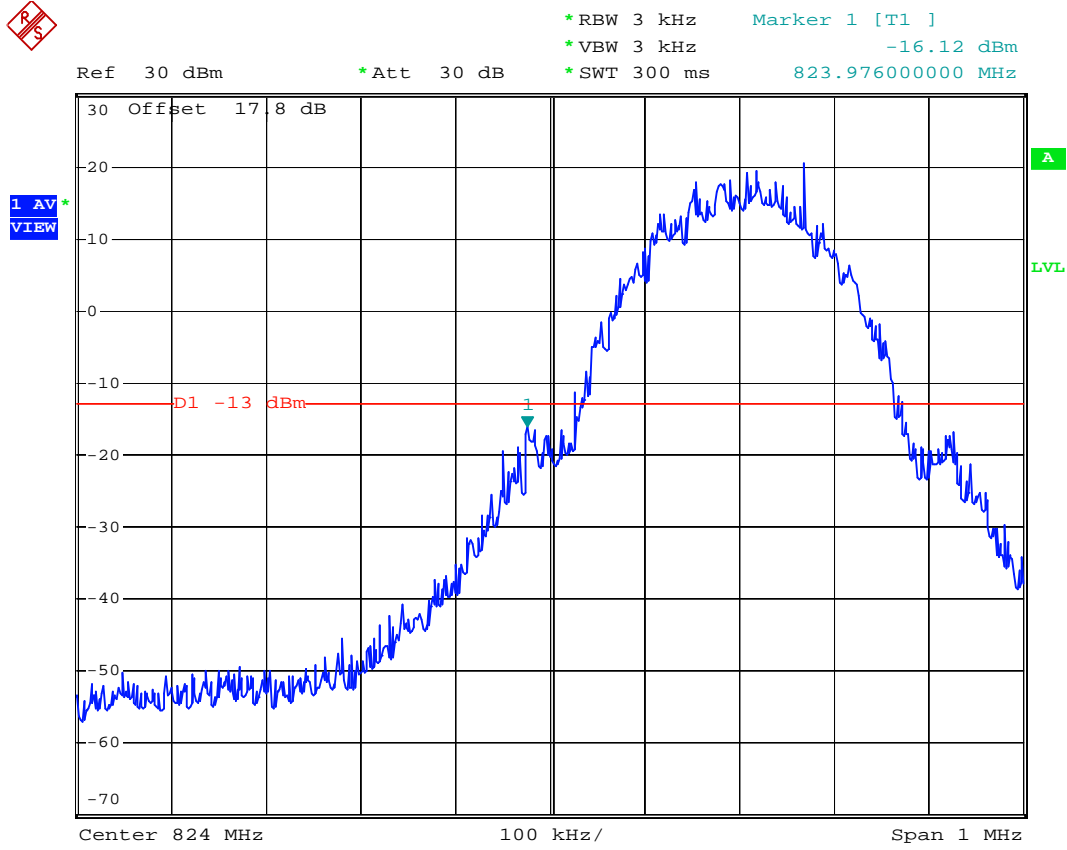
4.4.3 Test Setup Layout





4.4.4 Test Result

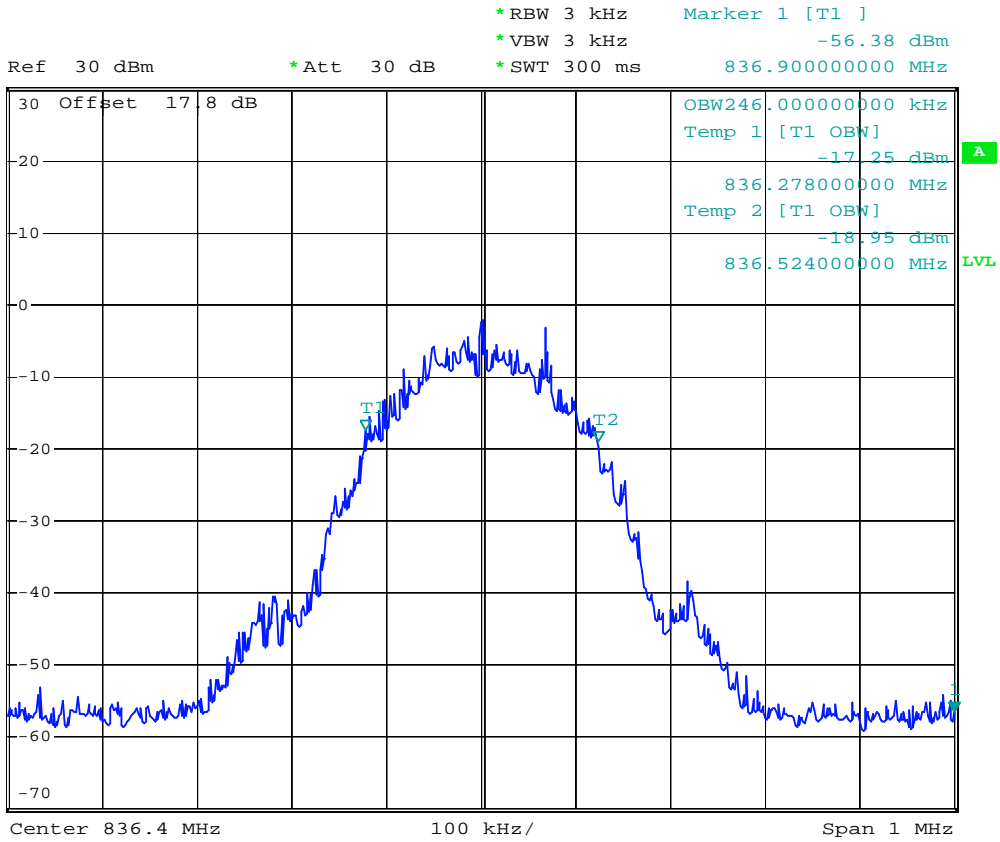
- Test Mode : GSM 850 CH128 Lower Band Edge
- Power State : High



Date: 12.JUL.2006 22:38:41



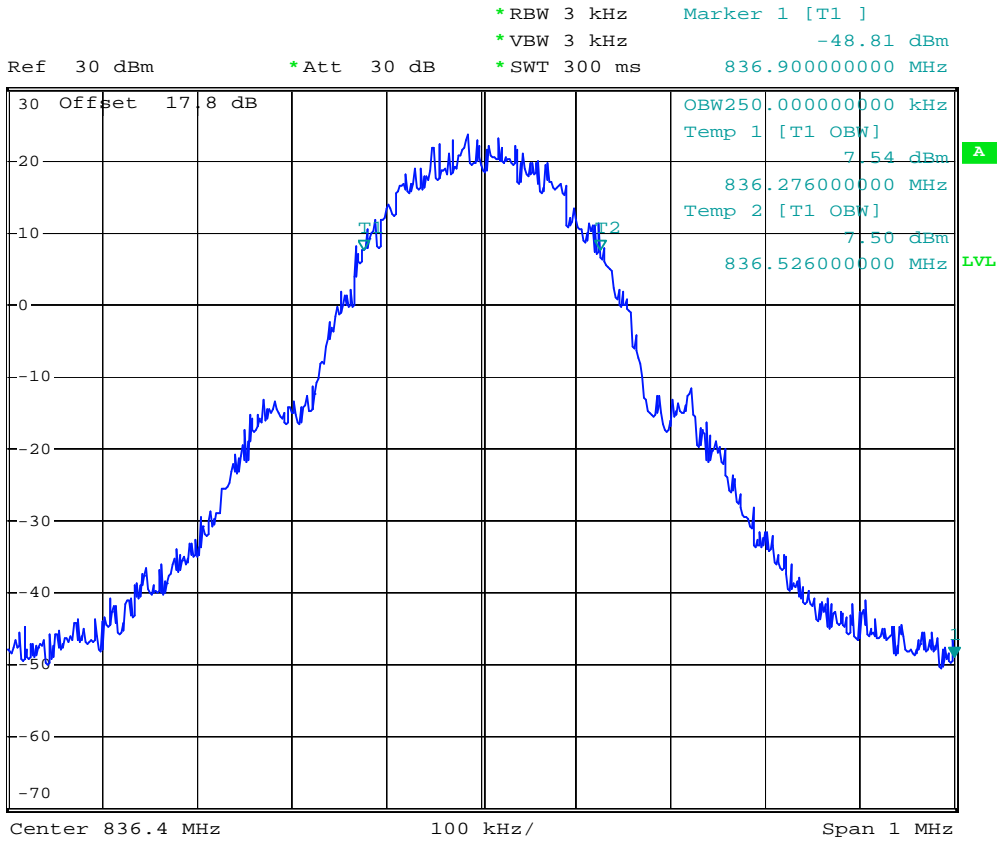
- Test Mode : GSM 850 CH189 99% Occupied Bandwidth
- Power State : Low



Date: 12.JUL.2006 22:35:58



- Test Mode : GSM 850 CH189 99% Occupied Bandwidth
- Power State : High



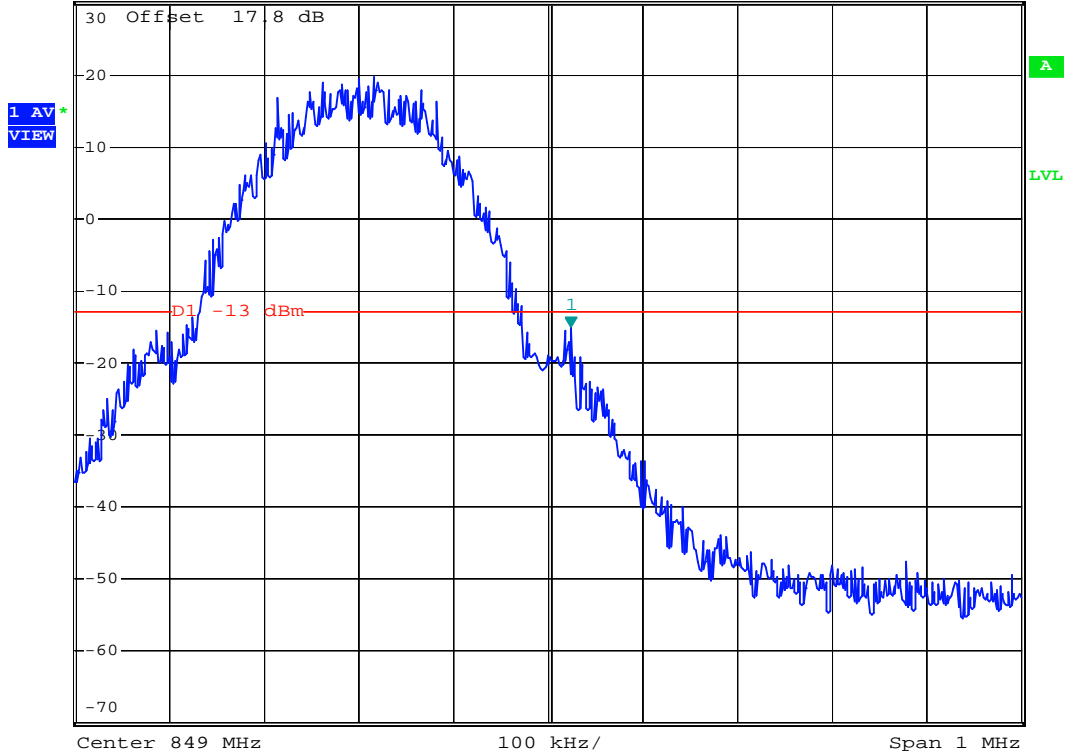
Date: 12.JUL.2006 22:35:28



- Test Mode : GSM 850 CH251 Higher Band Edge
- Power State : High



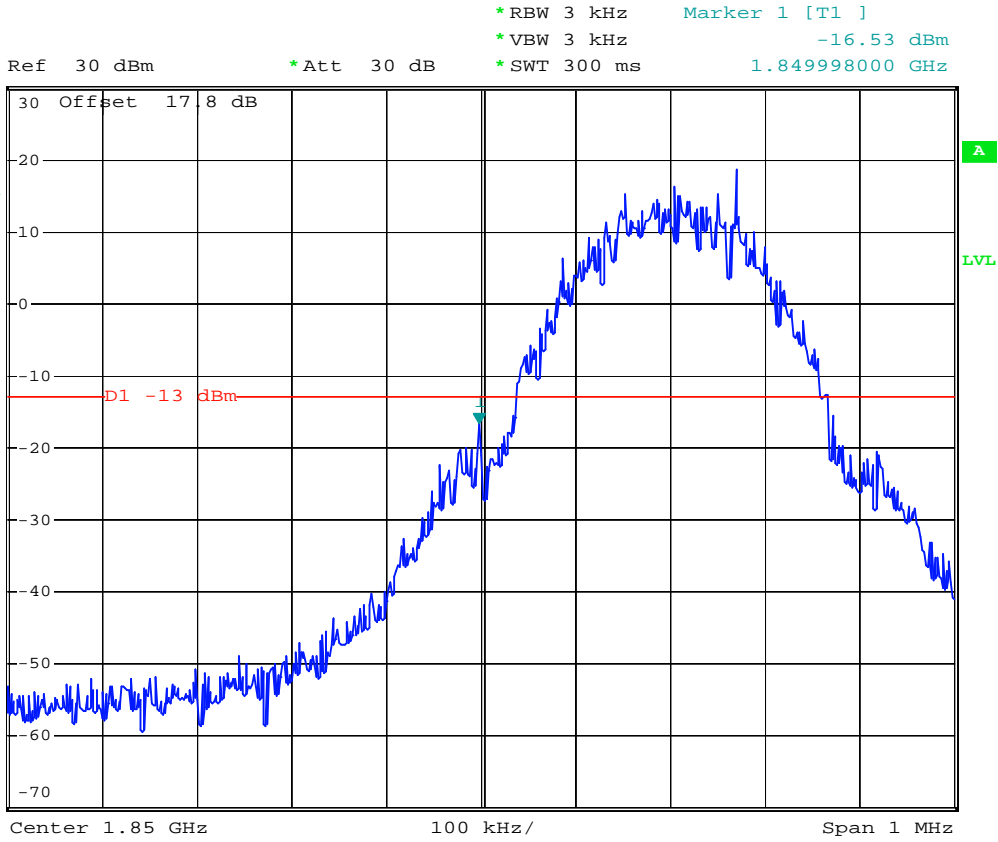
Ref 30 dBm *Att 30 dB *RBW 3 kHz Marker 1 [T1]
*VBW 3 kHz -15.00 dBm
*SWT 300 ms 849.02400000 MHz



Date: 12.JUL.2006 22:39:53



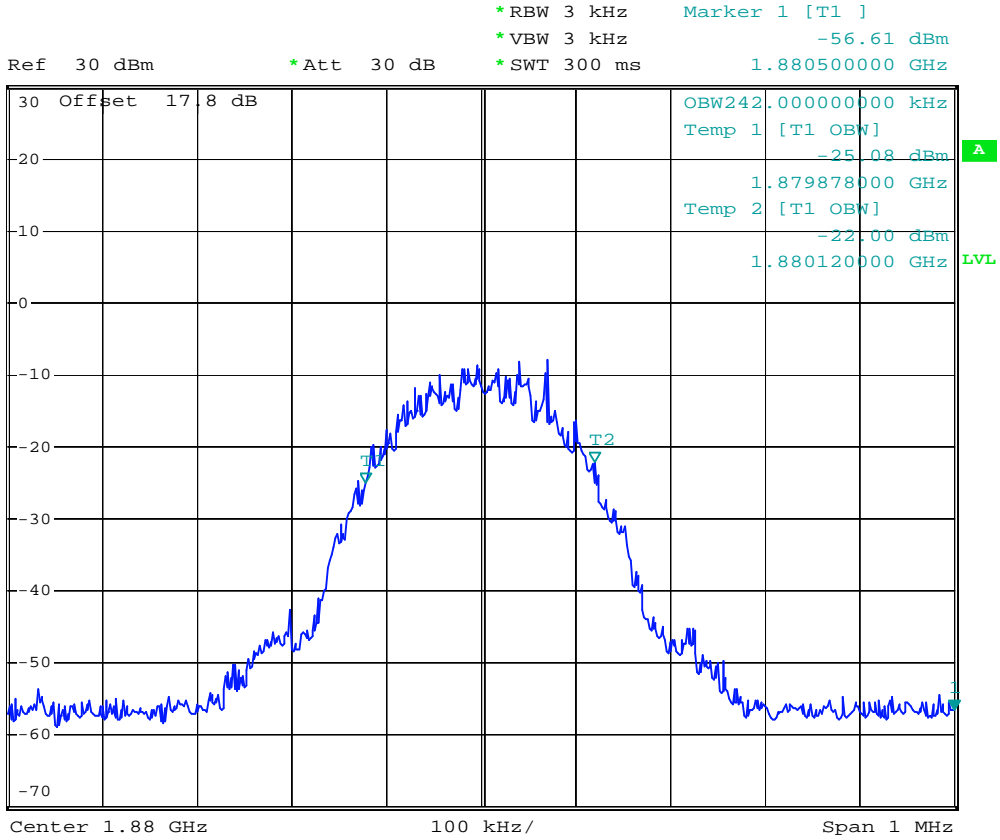
- Test Mode : PCS 1900 CH512 Lower Band Edge
- Power State : High



Date: 12.JUL.2006 22:33:15



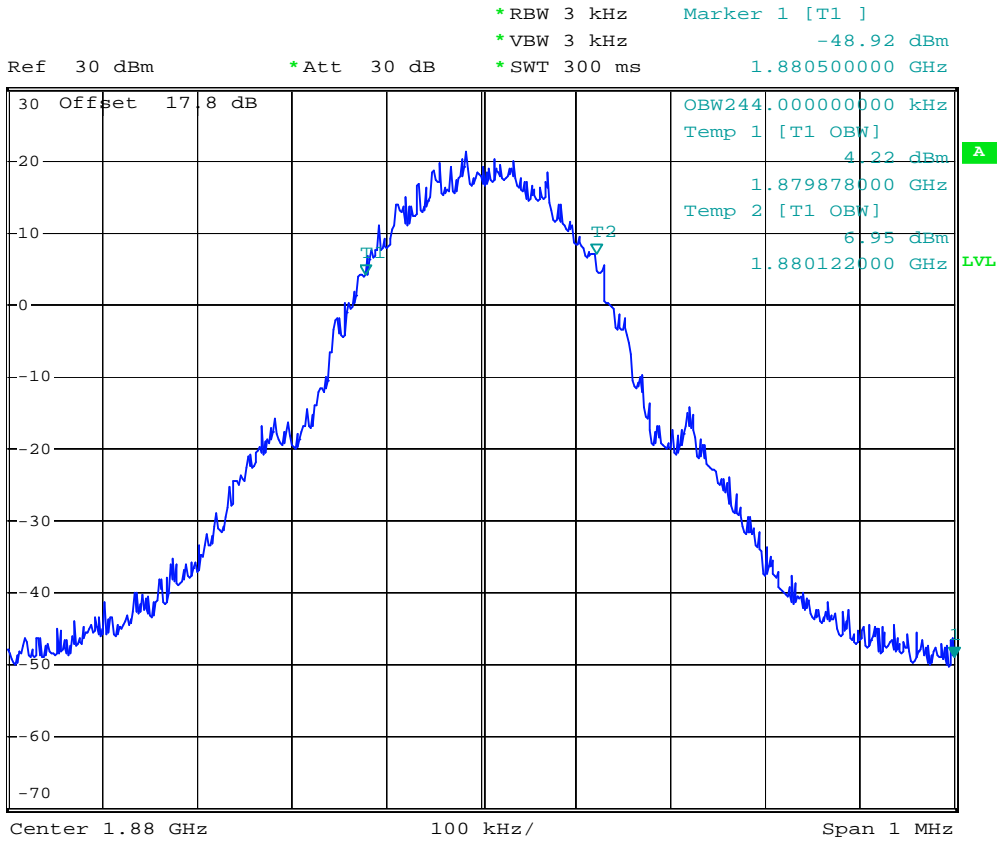
- Test Mode : PCS 1900 CH661 99% Occupied Bandwidth
- Power State : Low



Date: 12.JUL.2006 22:30:55



- Test Mode : PCS 1900 CH661 99% Occupied Bandwidth
- Power State : High



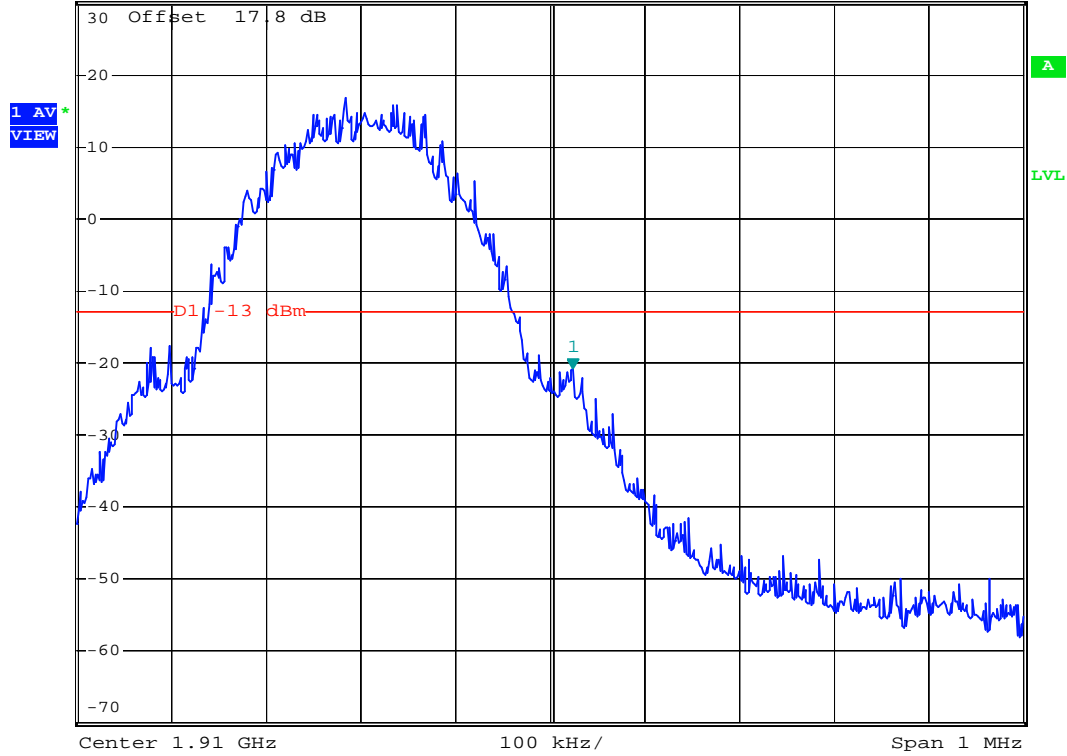
Date: 12.JUL.2006 22:30:12



- Test Mode : PCS 1900 CH810 Higher Band Edge
- Power State : High



Ref 30 dBm *Att 30 dB *RBW 3 kHz Marker 1 [T1]
*VBW 3 kHz -20.67 dBm
*SWT 300 ms 1.910024000 GHz



Date: 12.JUL.2006 22:34:06

4.5 Conducted Emission

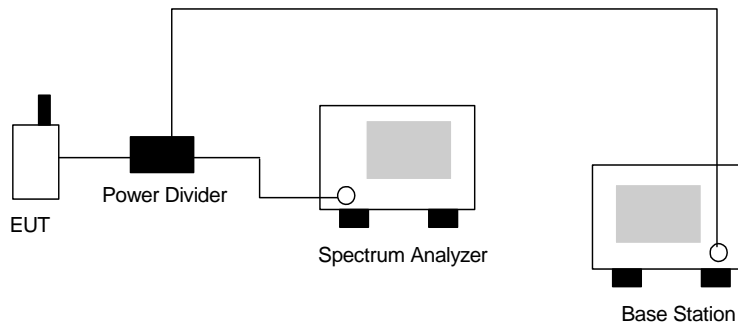
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

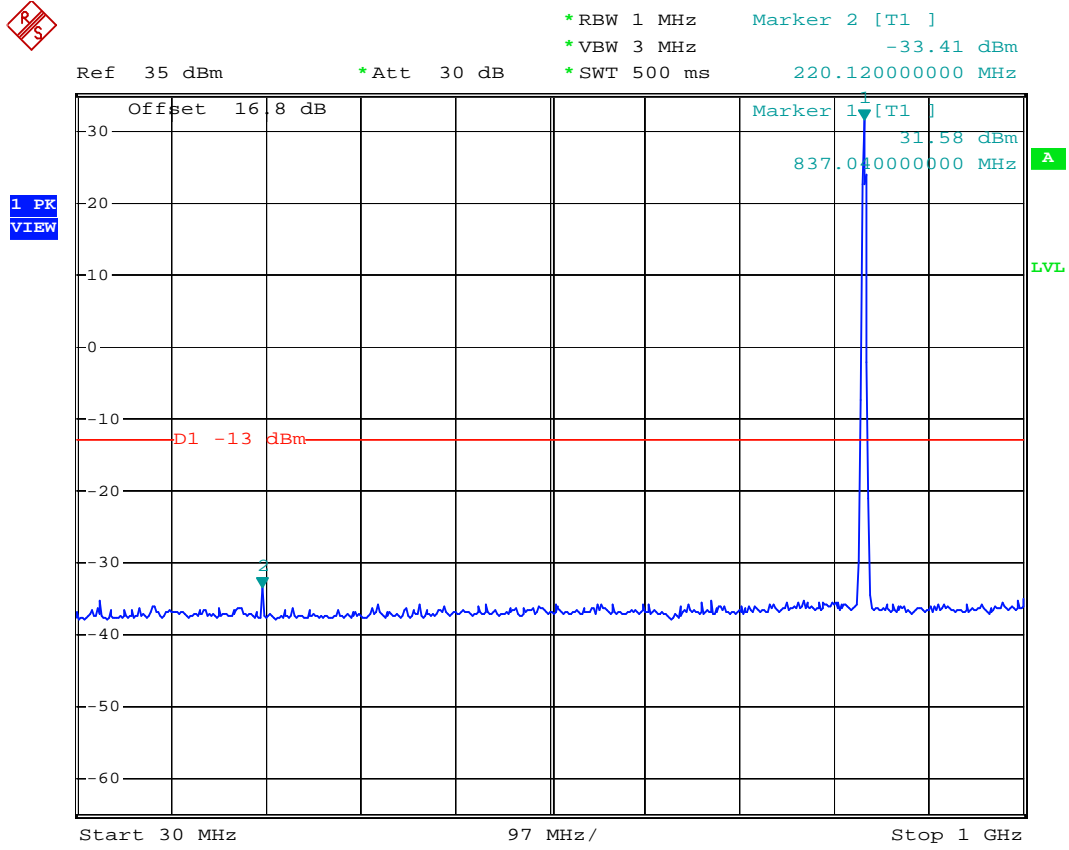
4.5.3 Test Setup Layout





4.5.4 Test Result

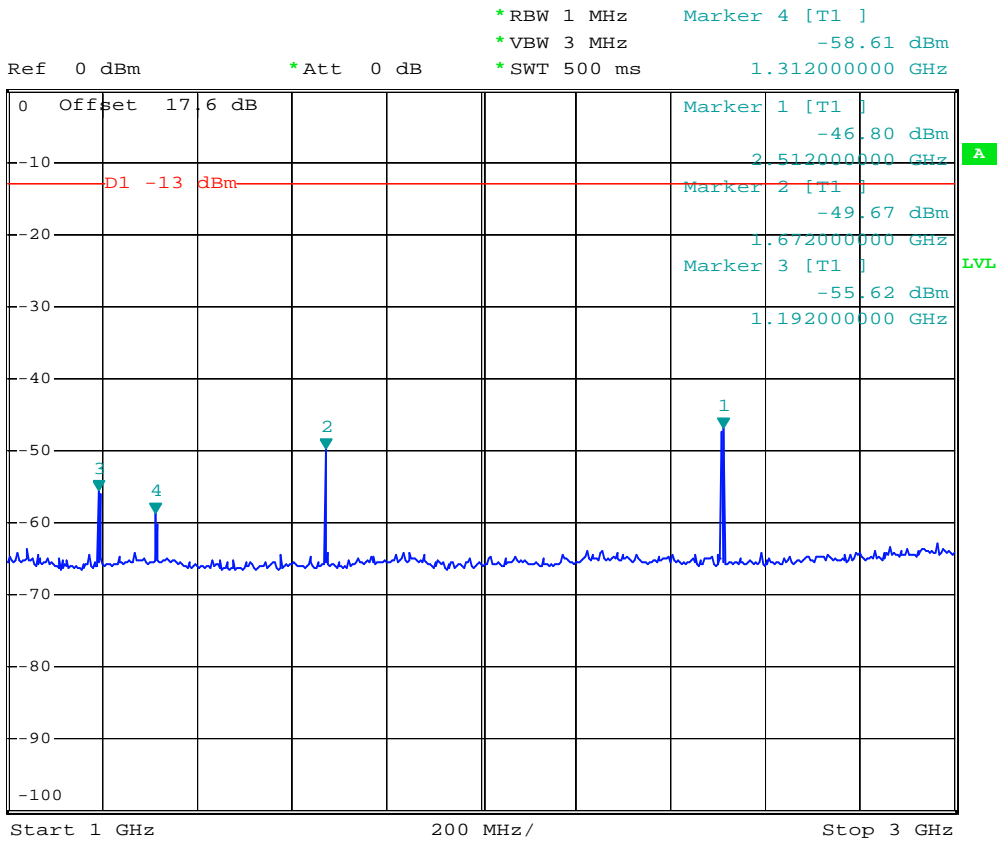
- Test Mode : GSM 850 CH189
- Frequency Range : 30M-1G



Date: 12.JUL.2006 22:42:03



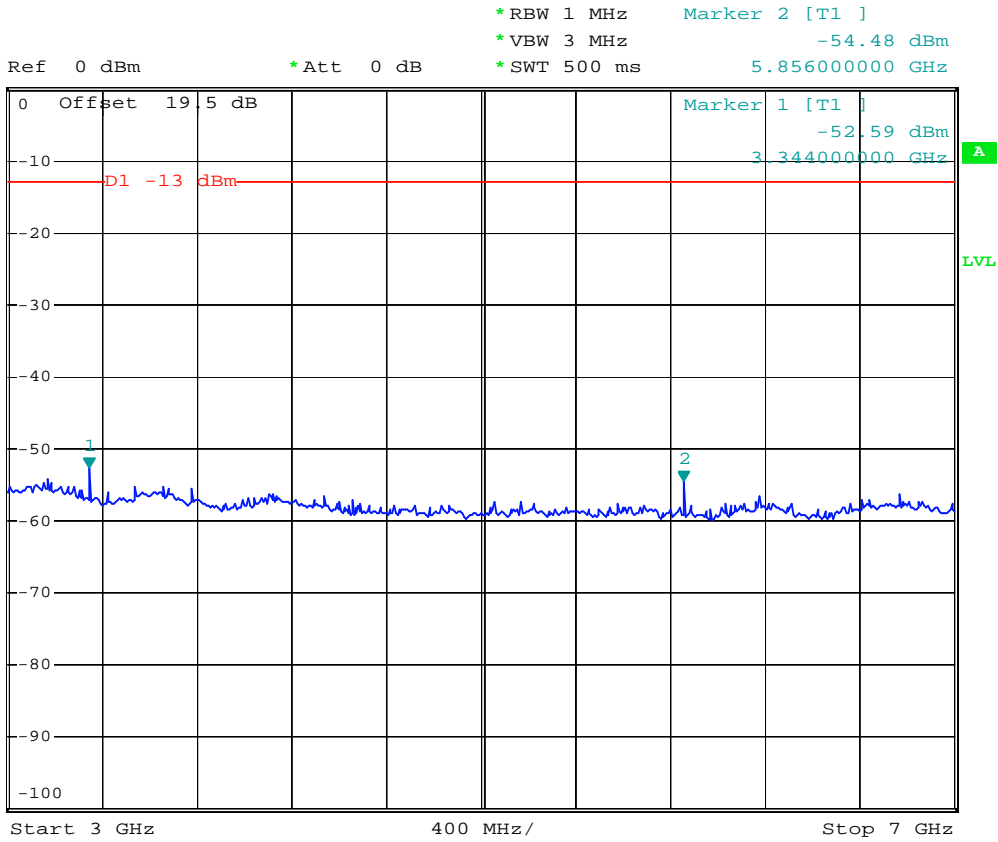
- Test Mode : GSM 850 CH189
- Frequency Range : 1G-3G



Date: 12.JUL.2006 22:44:53



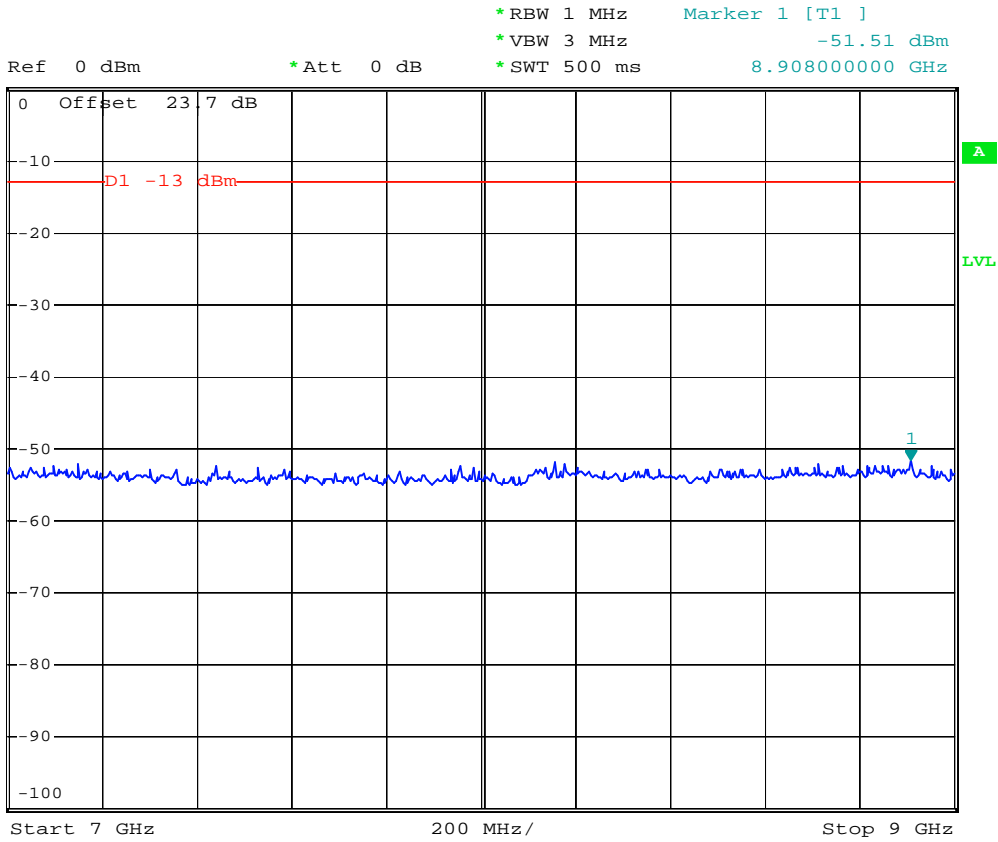
- Test Mode : GSM 850 CH189
- Frequency Range : 3G-7G



Date: 12.JUL.2006 22:48:38



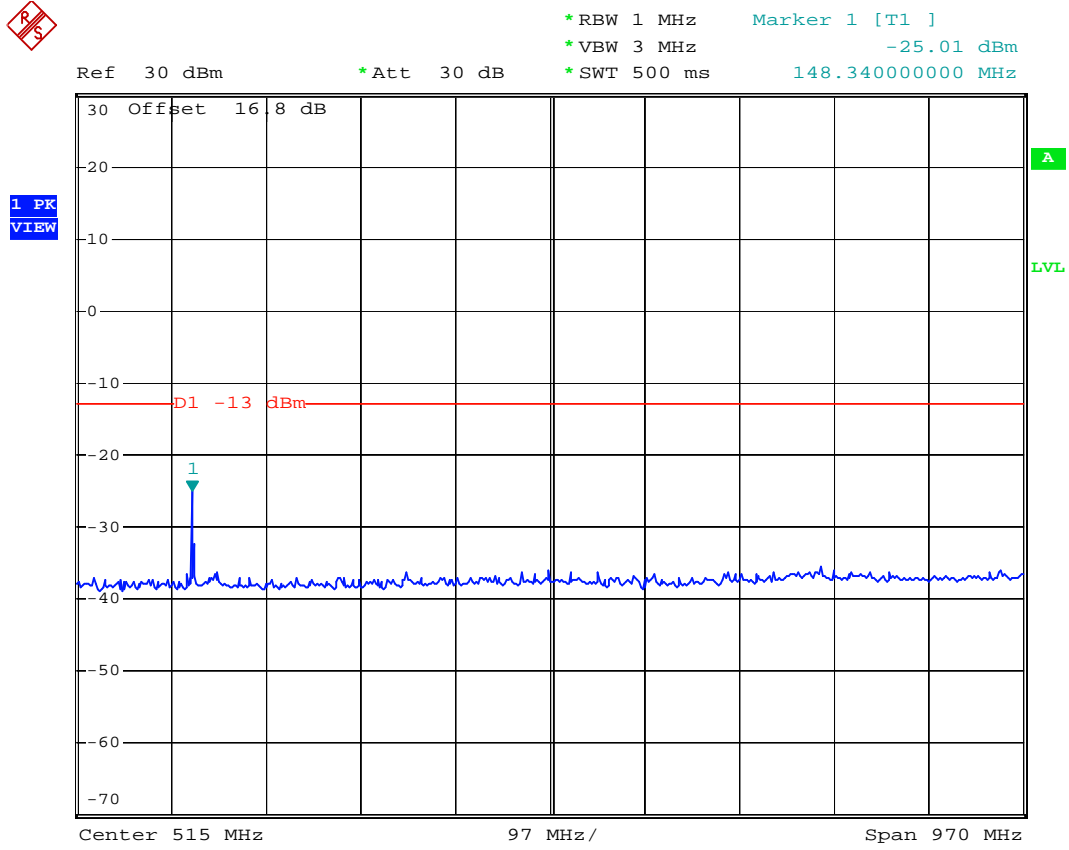
- Test Mode : GSM 850 CH189
- Frequency Range : 7G-9G



Date: 12.JUL.2006 22:49:52



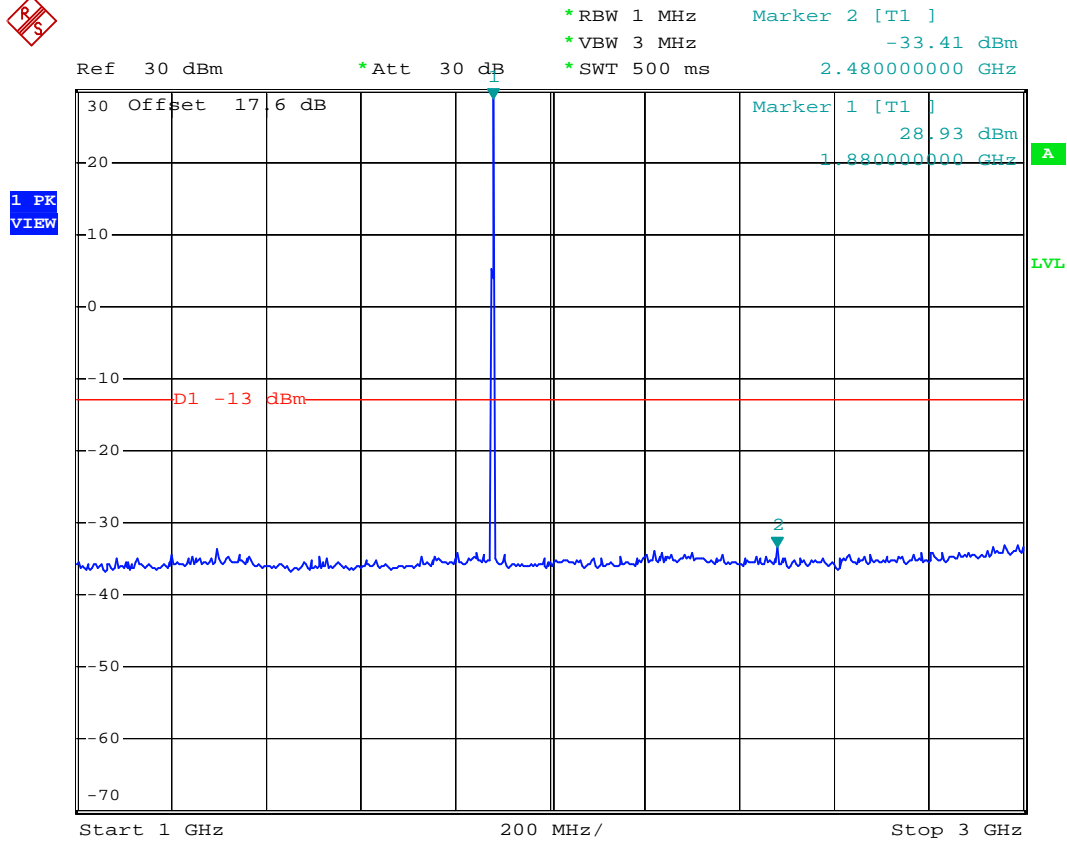
- Test Mode : PCS 1900 CH661
- Frequency Range : 30M-1G



Date: 28.JUL.2006 01:06:38



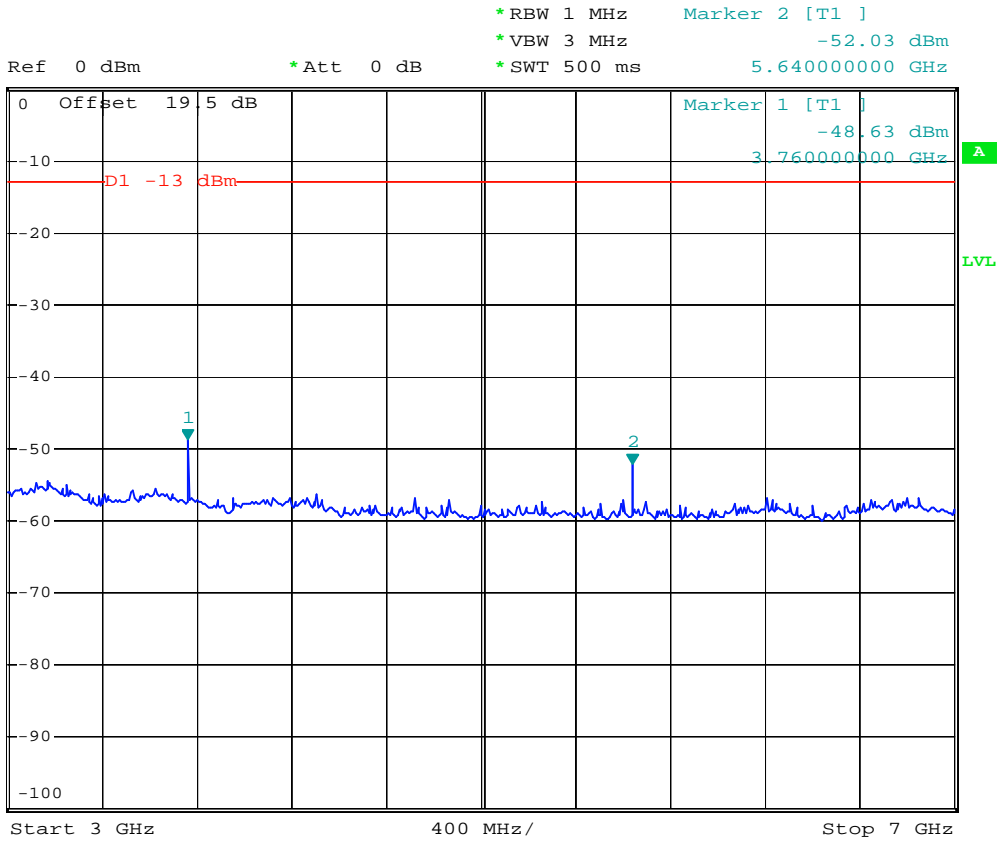
- Test Mode : PCS 1900 CH661
- Frequency Range : 1G-3G



Date: 12.JUL.2006 22:54:12



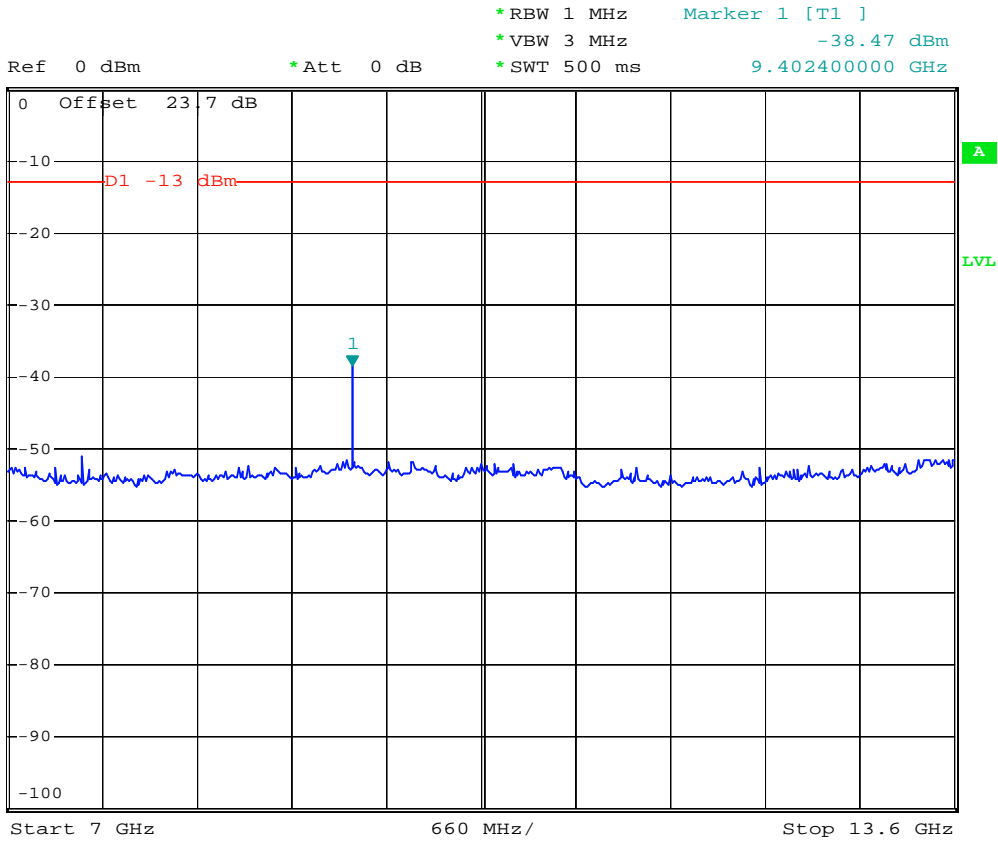
- Test Mode : PCS 1900 CH661
- Frequency Range : 3G-7G



Date: 12.JUL.2006 22:56:08



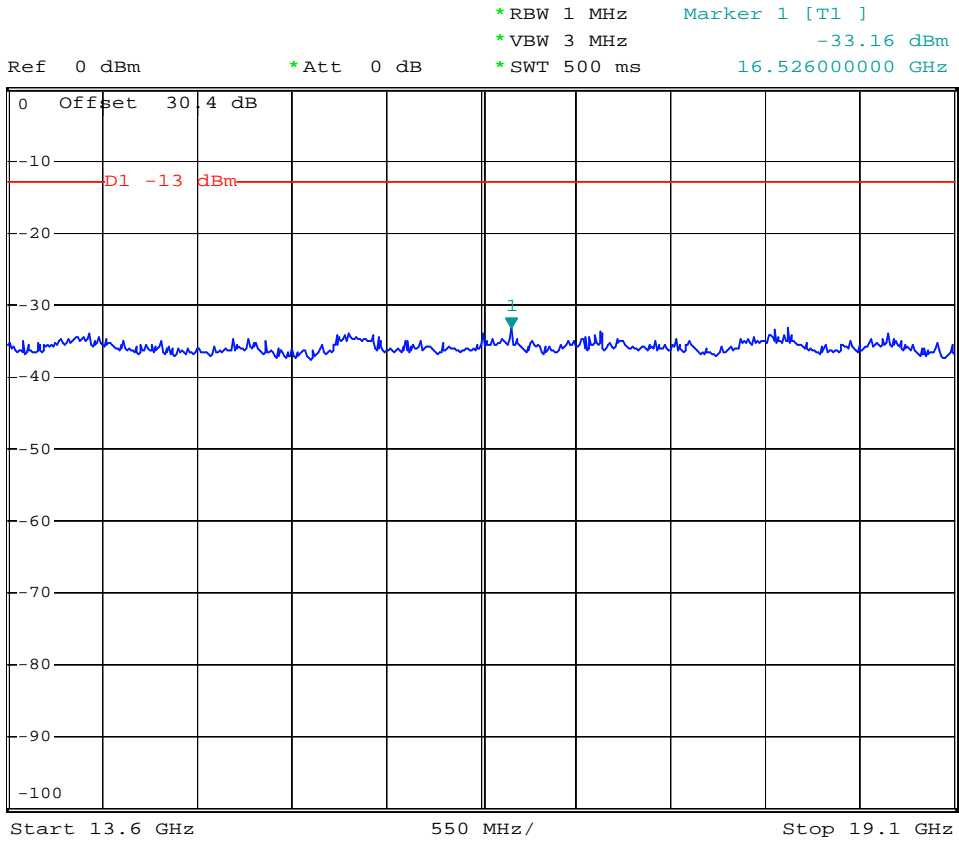
- Test Mode : PCS 1900 CH661
- Frequency Range : 7G-13.6G



Date: 12.JUL.2006 22:57:19



- Test Mode : PCS 1900 CH661
- Frequency Range : 13.6G-19.1G



Date: 12.JUL.2006 22:58:26

4.6 Field Strength of Spurious Radiation

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

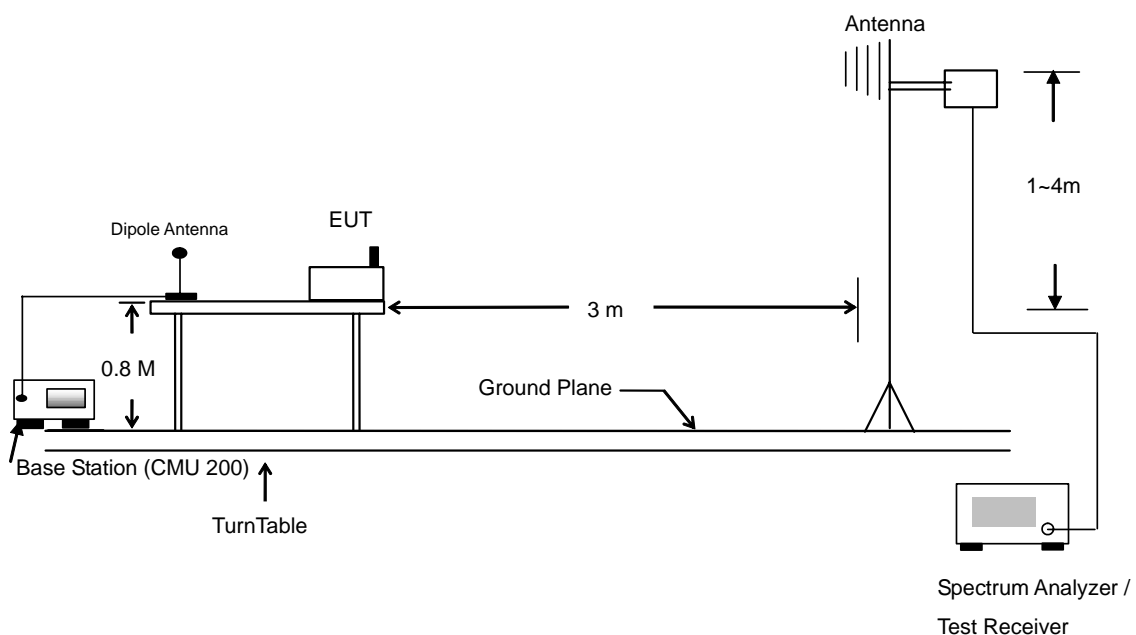
4.6.1 Measurement Instruments

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 Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
41.880	-52.410	-13	-39.41	37.290	-41.800	-13	-28.80
62.130	-60.980	-13	-47.98	43.500	-46.030	-13	-33.03
156.630	-56.790	-13	-43.79	57.540	-39.610	-13	-26.61
379.800	-49.600	-13	-36.60	491.800	-58.410	-13	-45.41
535.900	-58.220	-13	-45.22	502.300	-54.960	-13	-41.96
630.400	-57.660	-13	-44.66	523.300	-58.460	-13	-45.46
1674.000	-49.480	-13	-36.48	1024.000	-58.770	-13	-45.77
2508.000	-47.370	-13	-34.37	1674.000	-50.870	-13	-37.87
5854.000	-49.100	-13	-36.10	2508.000	-50.720	-13	-37.72
				5854.000	-52.540	-13	-39.54

- Test Mode : Mode 2

PCS1900 Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
218.730	-51.670	-13	-38.67	44.040	-51.220	-13	-38.22
253.290	-48.910	-13	-35.91	194.430	-50.940	-13	-37.94
297.840	-49.920	-13	-36.92	295.680	-52.590	-13	-39.59
337.800	-49.230	-13	-36.23	383.300	-44.210	-13	-31.21
385.400	-52.730	-13	-39.73	514.900	-47.320	-13	-34.32
929.300	-53.660	-13	-40.66	630.400	-48.000	-13	-35.00
2834.000	-54.170	-13	-41.17	1078.000	-52.010	-13	-39.01
3758.000	-45.180	-13	-32.18	3758.000	-45.330	-13	-32.33
5638.000	-37.850	-13	-24.85	5638.000	-36.390	-13	-23.39
9398.000	-41.040	-13	-28.04	7518.000	-46.770	-13	-33.77
11278.000	-37.780	-13	-24.78	9398.000	-39.820	-13	-26.82
13158.000	-41.930	-13	-28.93	11278.000	-35.500	-13	-22.50
15036.000	-40.400	-13	-27.40				



- Test Mode : Mode 3

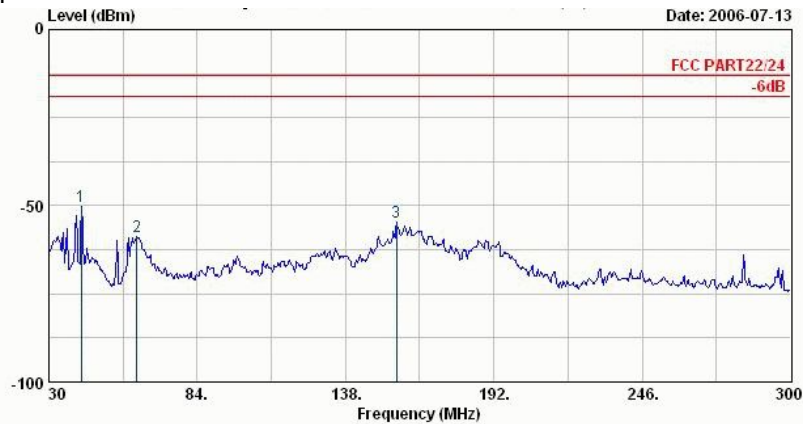
GSM850 with WLAN Co-location Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
46.740	-44.450	-13	-31.45	46.740	-29.360	-13	-16.36
87.780	-58.260	-13	-45.26	98.040	-53.760	-13	-40.76
121.530	-56.740	-13	-43.74	120.990	-57.080	-13	-44.08
588.400	-57.840	-13	-44.84	563.900	-62.490	-13	-49.49
1674.000	-57.520	-13	-44.52	1674.000	-58.810	-13	-45.81
4824.000	-50.530	-13	-37.53	2508.000	-56.720	-13	-43.72
				4824.000	-52.530	-13	-39.53
				5854.000	-53.640	-13	-40.64
				7324.000	-46.600	-13	-33.60
				10034.000	-40.770	-13	-27.77



4.6.5 Test Data

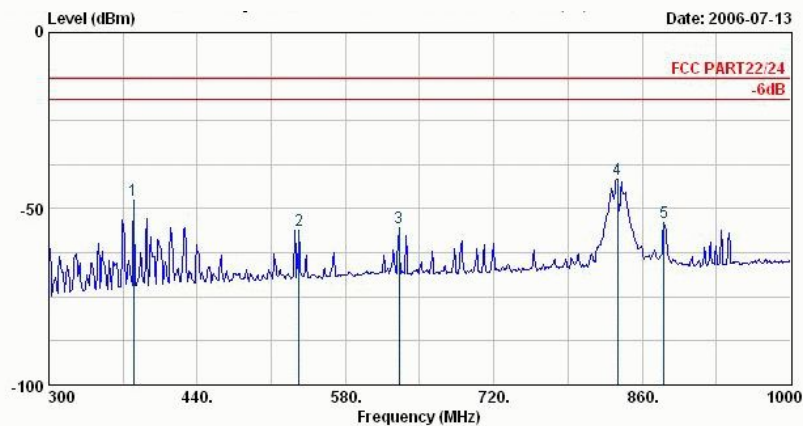
4.6.5.1 Mode 1

Horizontal Polarization



Site : 03CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	41.88	-50.26	-37.26	-13.00	-43.31	-6.95	Peak
2 @	62.13	-58.83	-45.83	-13.00	-46.44	-12.39	Peak
3 @	156.63	-54.64	-41.64	-13.00	-41.74	-12.90	Peak

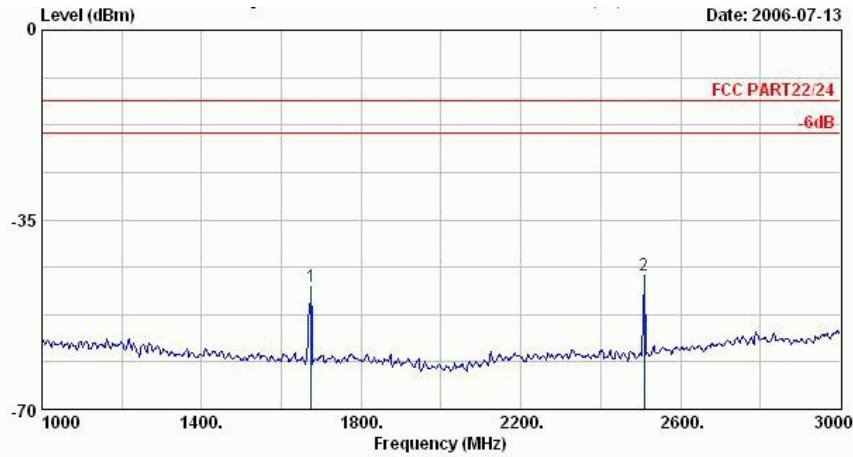


Site : 03CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	379.80	-47.45	-34.45	-13.00	-40.28	-7.17	Peak
2 @	535.90	-56.07	-43.07	-13.00	-51.45	-4.62	Peak
3 @	630.40	-55.51	-42.51	-13.00	-52.08	-3.43	Peak
4 @	836.90	-41.54			-40.20	-1.33	Peak
5 @	880.30	-53.81			-52.89	-0.91	Peak

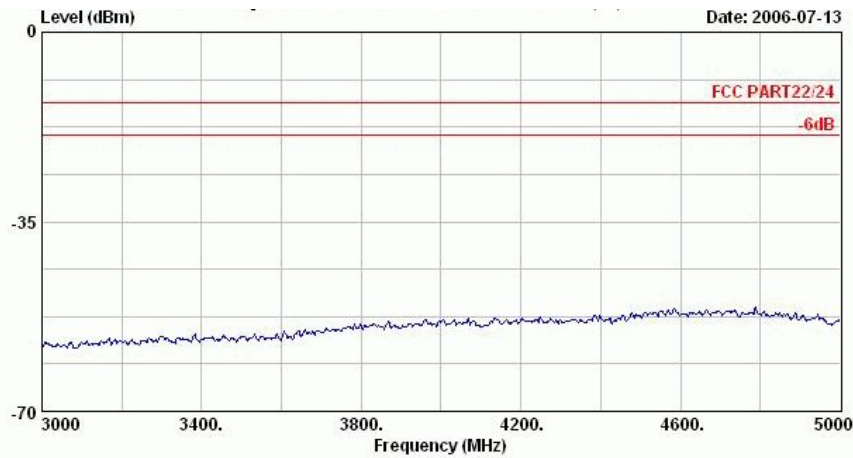
Remark:

- 1. #4: MS TCH Signal ◦
- 2. #5: BS TCH Signal ◦

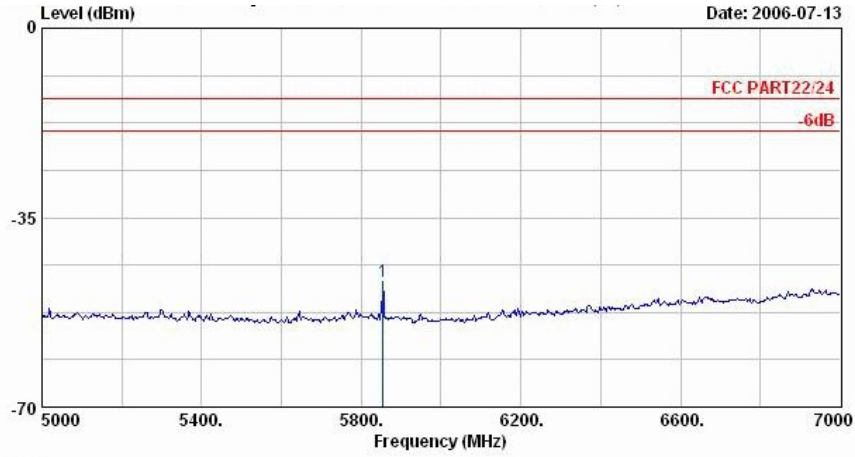


Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1674.00	-47.33	-34.33	-13.00	-47.56	0.22	Peak
2 @	2508.00	-45.22	-32.22	-13.00	-46.42	1.20	Peak

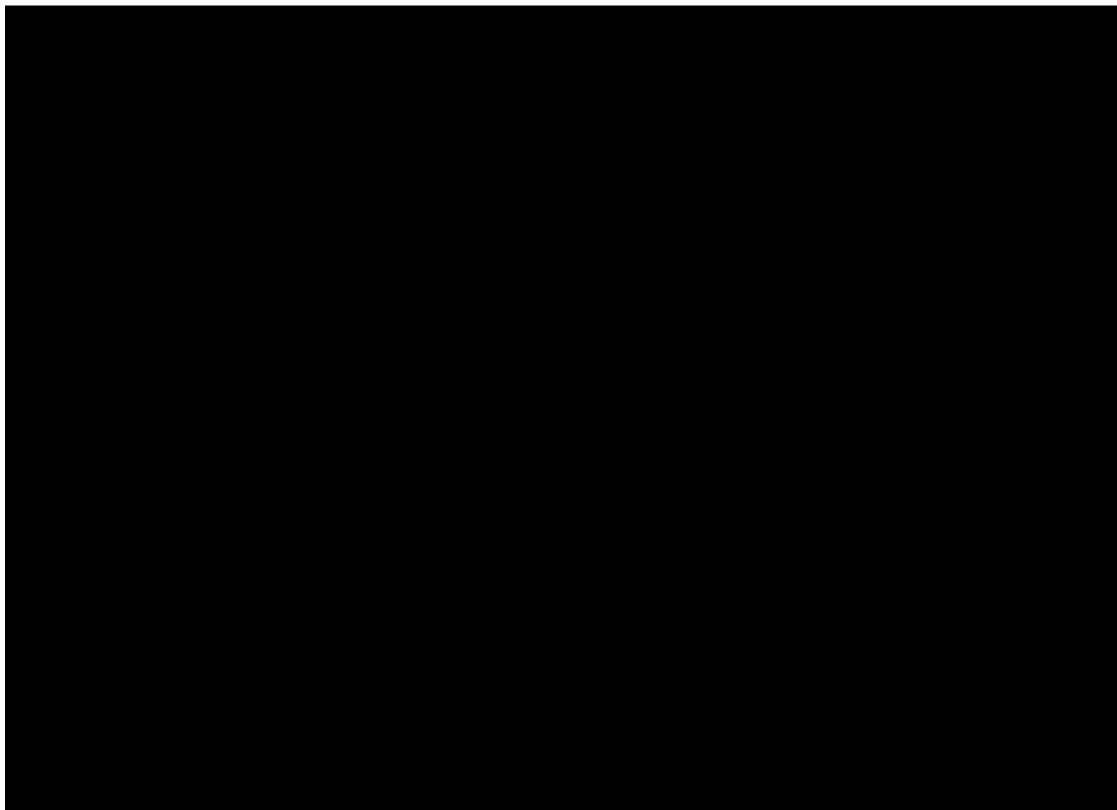


Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189+Adaptor
 Plane : E1



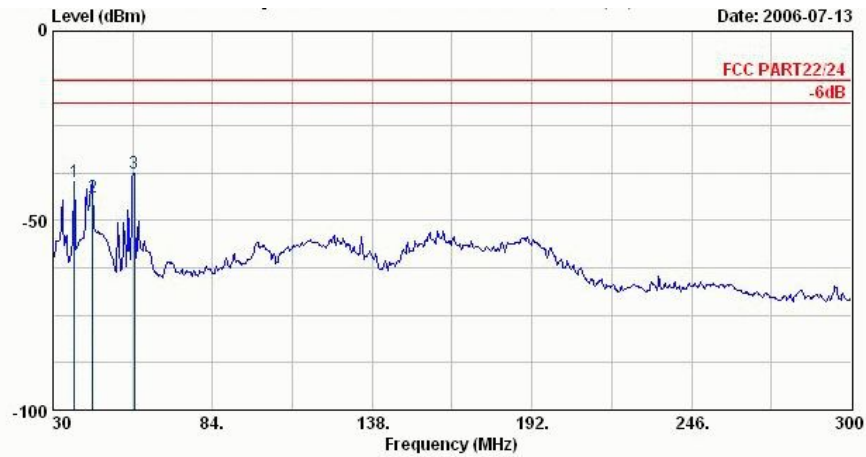
Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	5854.00	-46.95	-33.95	-13.00	-57.17	10.22	Peak



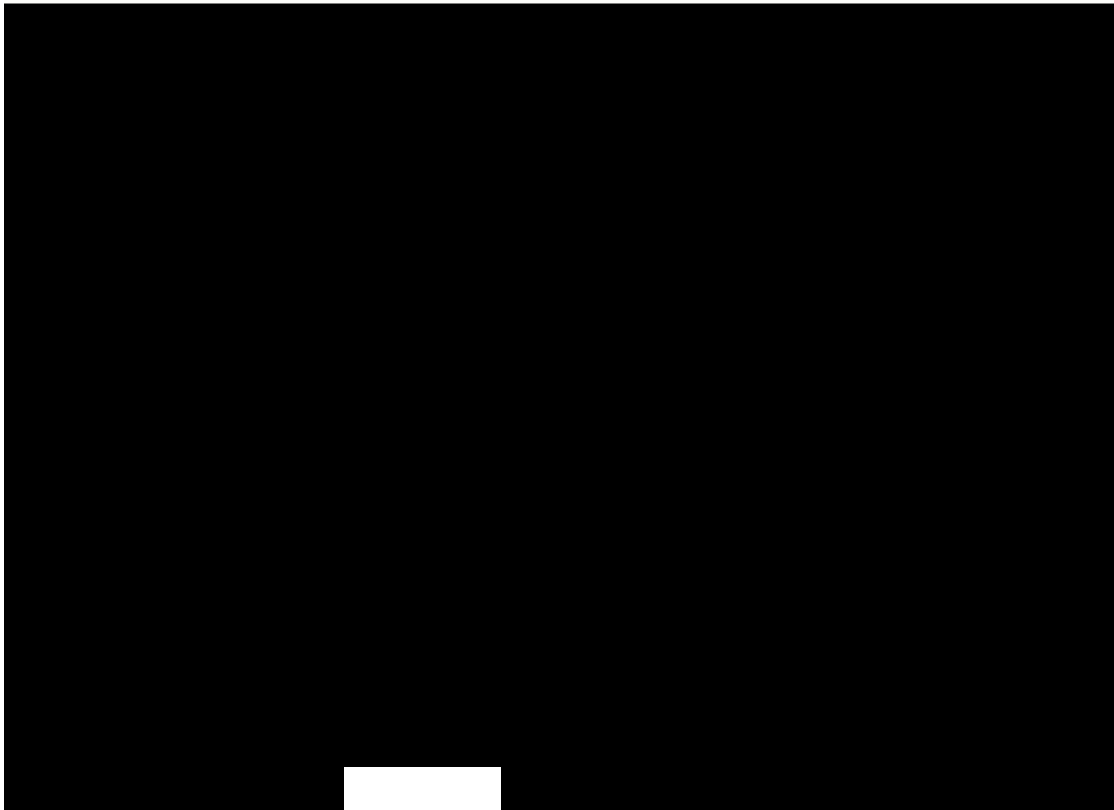


Vertical Polarization



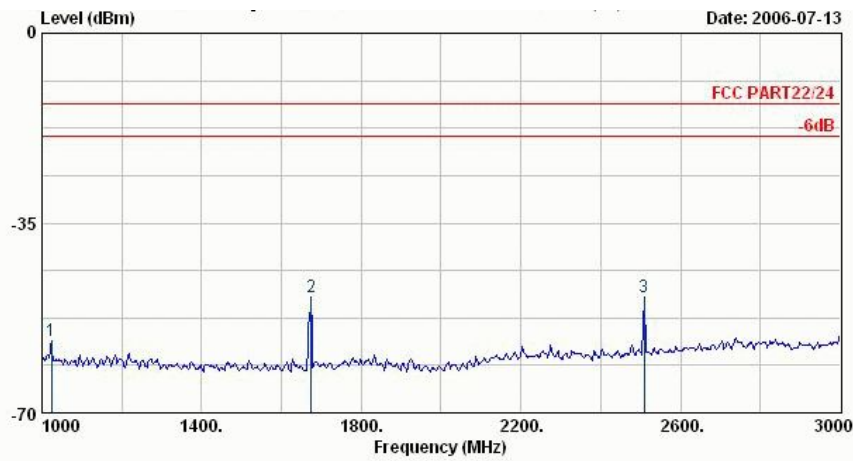
Site : 03CH06-HY
 Condition : LF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link,CH189+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	37.29	-39.65	-26.65	-13.00	-28.39	-11.26	Peak
2 @	43.50	-43.88	-30.88	-13.00	-30.98	-12.90	Peak
3 @	57.54	-37.46	-24.46	-13.00	-23.62	-13.84	Peak



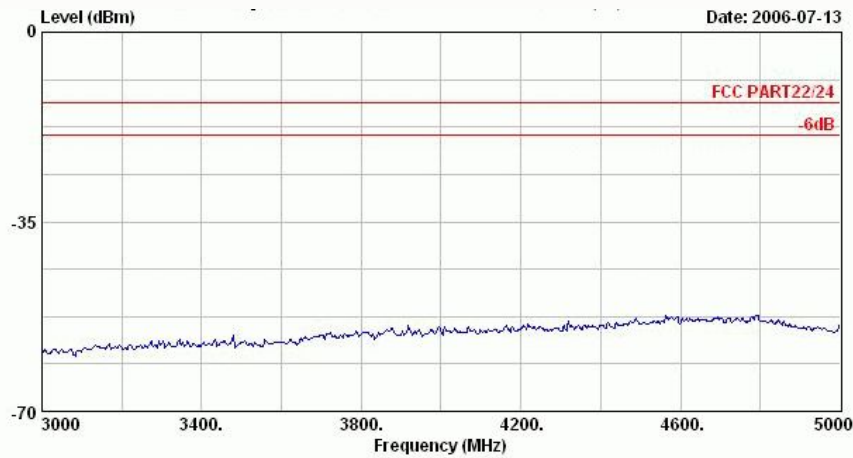
Remark:

1. #4: MS TCH Signal ◦
2. #5: BS TCH Signal ◦

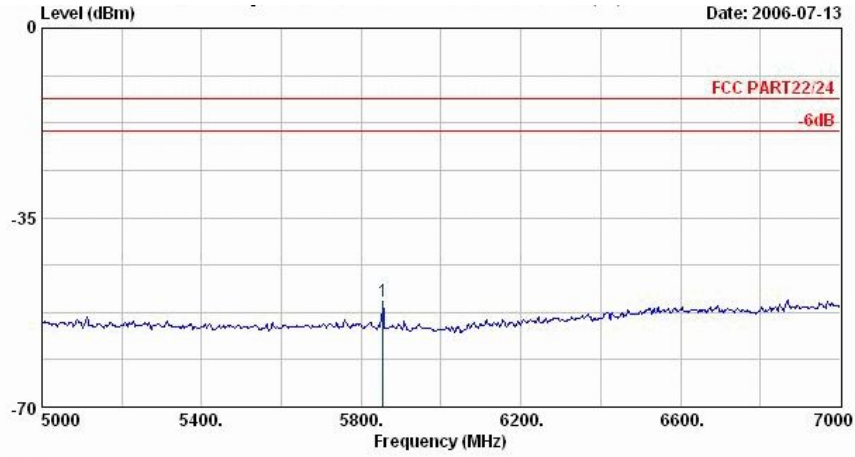


Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1024.00	-56.62	-43.62	-13.00	-55.89	-0.73	Peak
2 @	1674.00	-48.72	-35.72	-13.00	-48.24	-0.48	Peak
3 @	2508.00	-48.57	-35.57	-13.00	-50.84	2.27	Peak

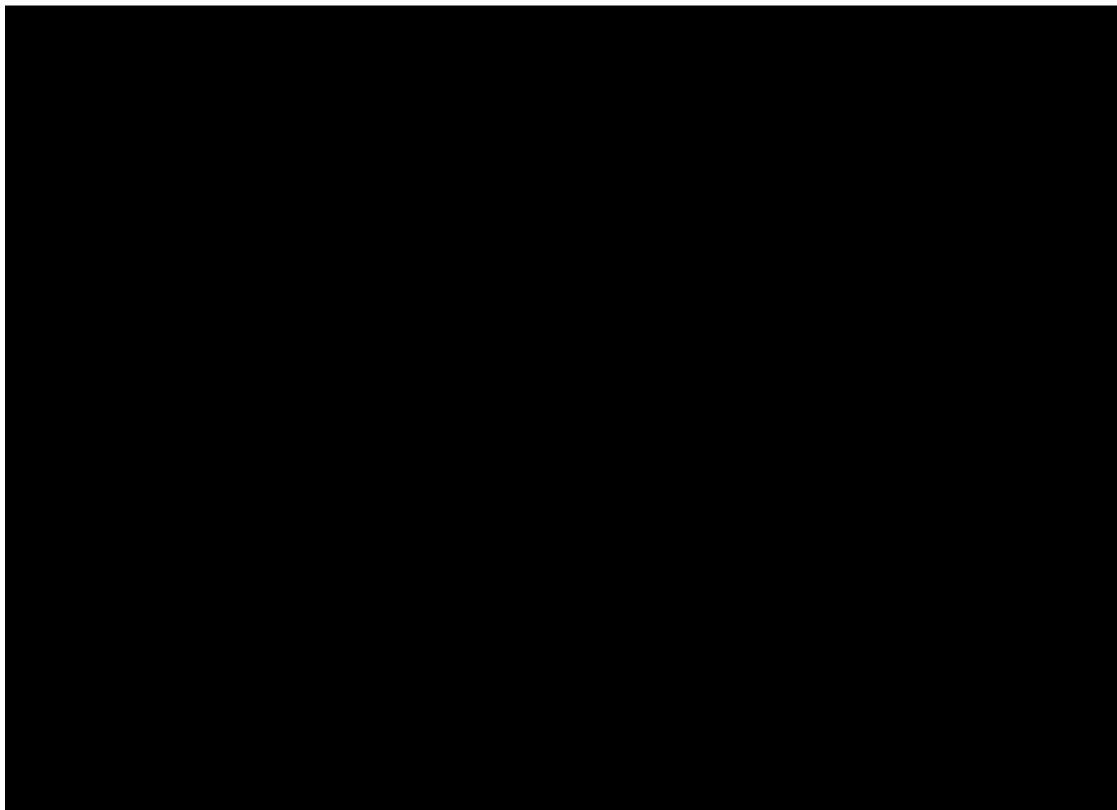


Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189+Adaptor
 Plane : E1



Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189+Adaptor
 Plane : E1

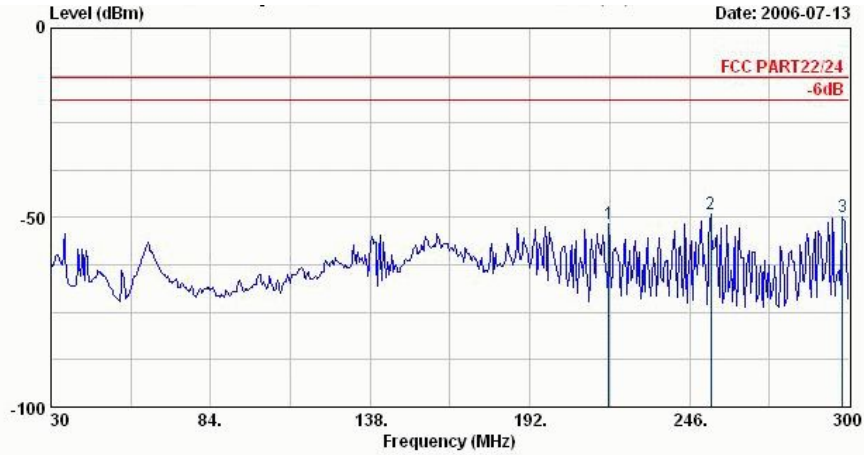
	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5854.00	-50.39	-37.39	-13.00	-59.20	8.81	Peak



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

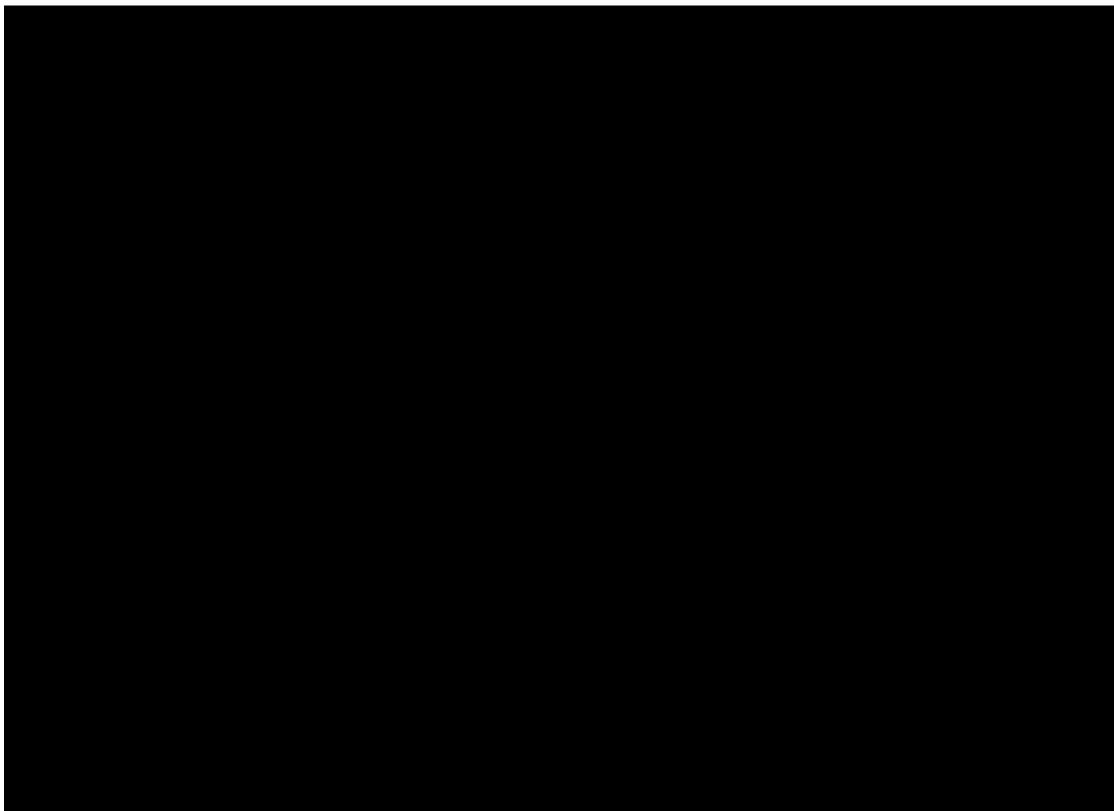


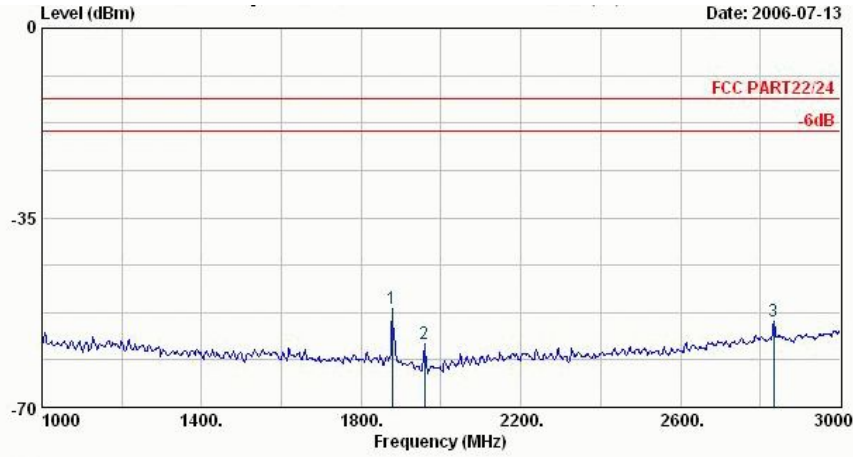
4.6.5.2 Mode 2
Horizontal Polarization



Site : 03CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	218.73	-51.67	-38.67	-13.00	-38.94	-12.72	Peak
2 @	253.29	-48.91	-35.91	-13.00	-37.36	-11.55	Peak
3	297.84	-49.92	-36.92	-13.00	-39.90	-10.01	Peak



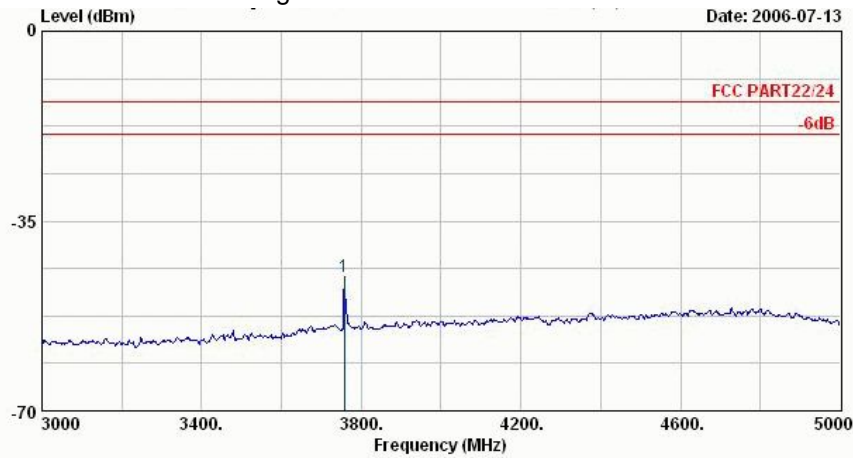


Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	1878.00	-51.79			-51.28	-0.51	Peak
2	1958.00	-58.31			-57.20	-1.11	Peak
3	2834.00	-54.17	-41.17	-13.00	-57.70	3.53	Peak

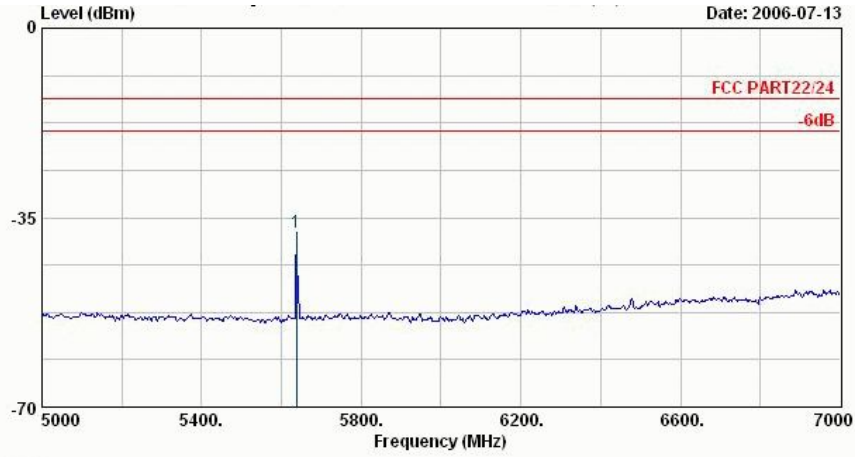
Remark:

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



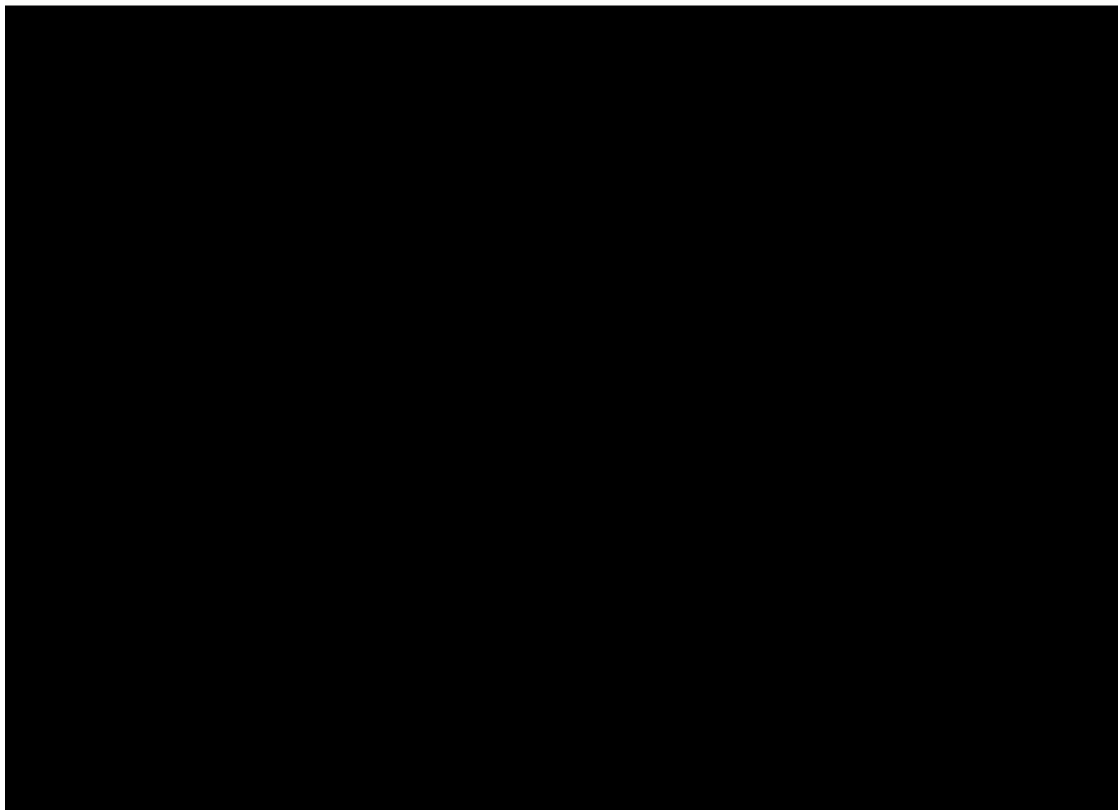
Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

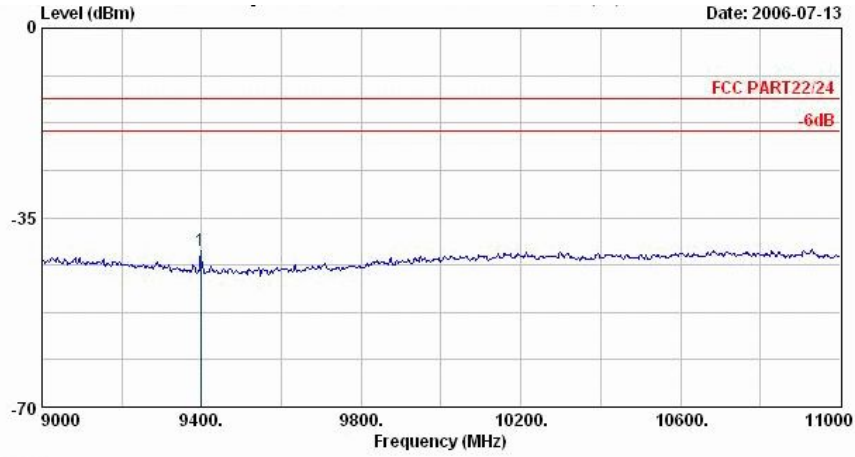
	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	3758.00	-45.18	-32.18	-13.00	-53.10	7.92	Peak



Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

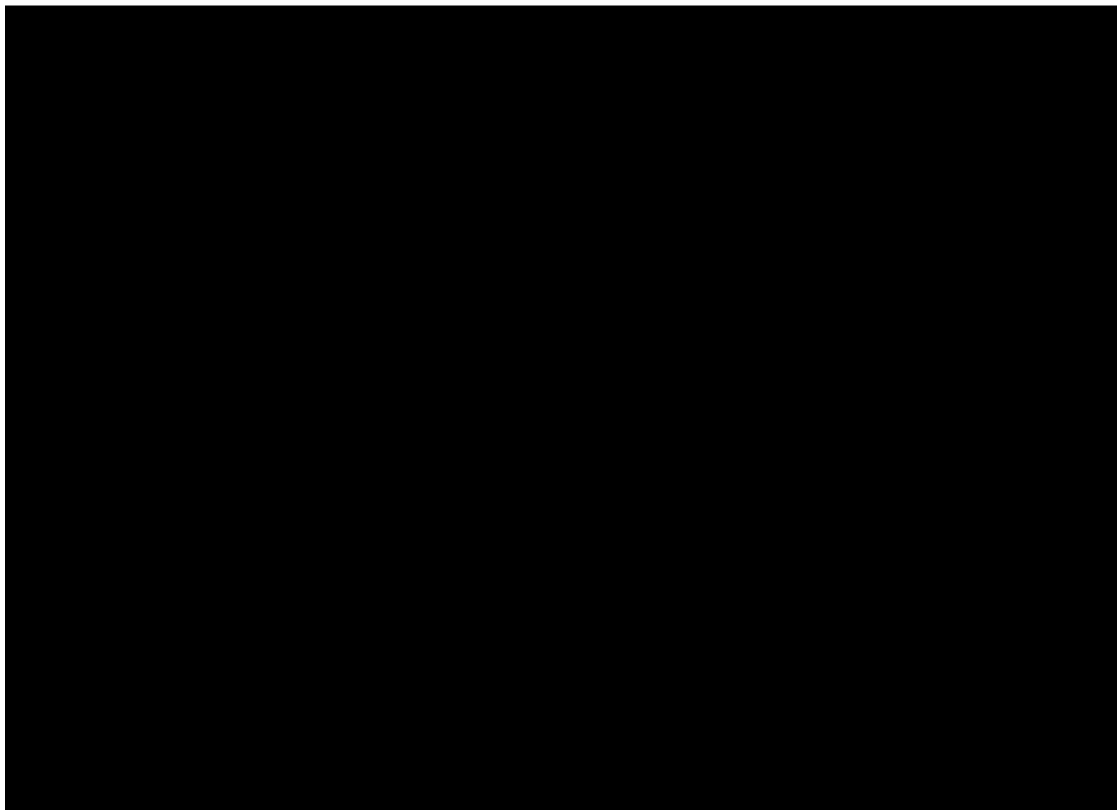
	Freq	Level	Over	Limit	Read		Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5638.00	-37.85	-24.85	-13.00	-47.82	9.97	Peak

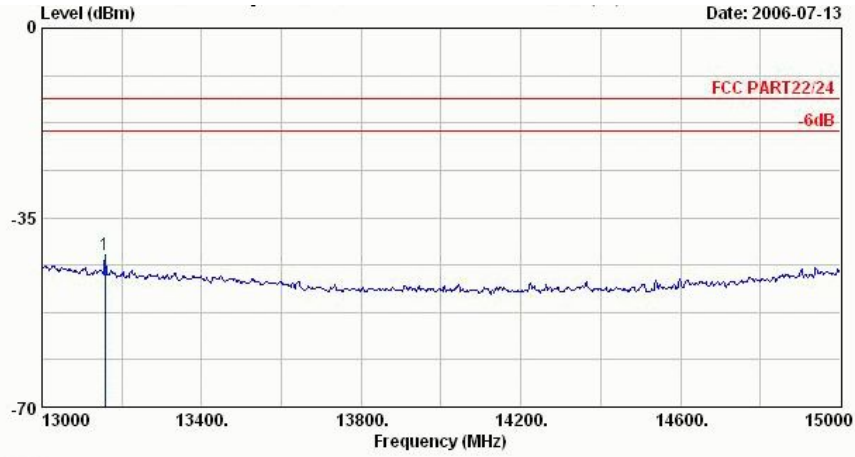




Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

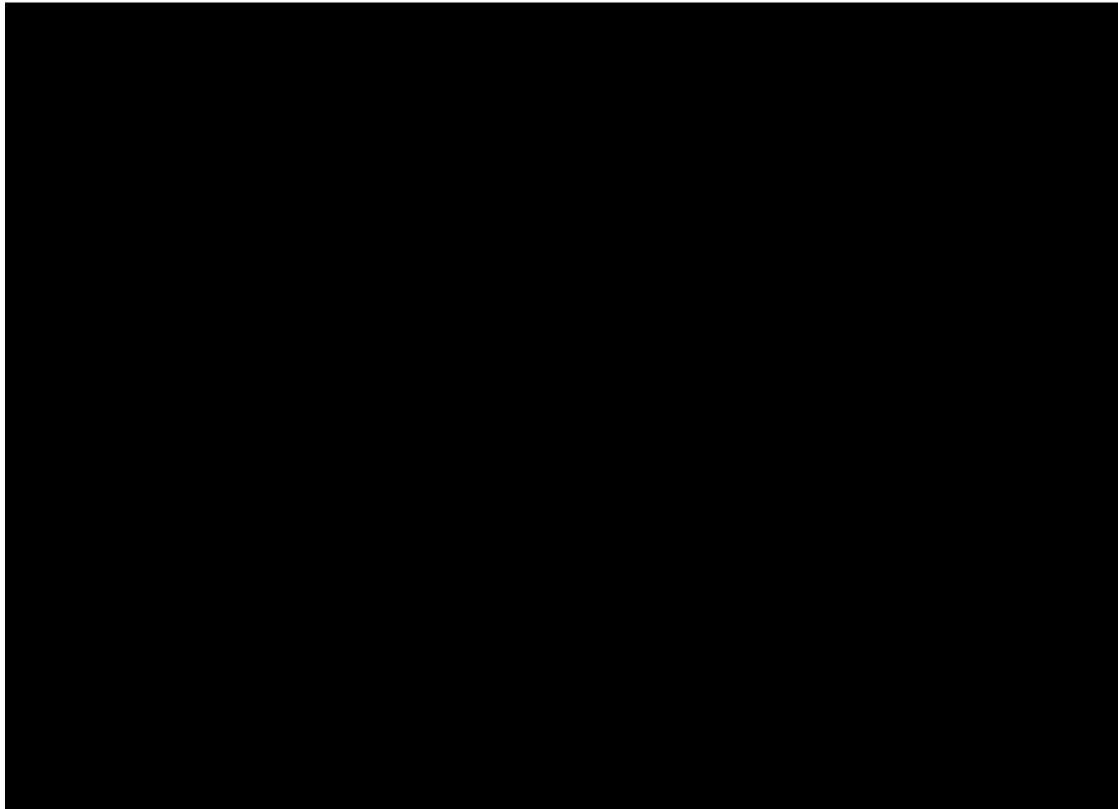
	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	9398.00	-41.04	-28.04	-13.00	-59.26	18.22	Peak





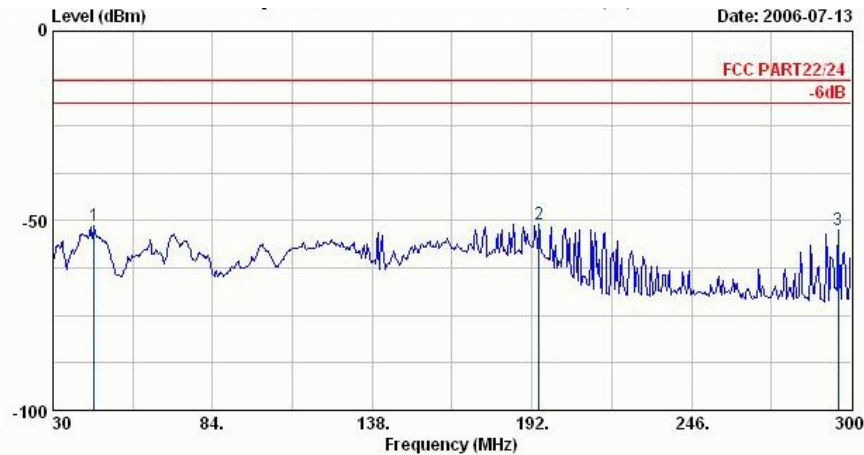
Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	
1 @	13158.00	-41.93	-28.93	-13.00	-60.65	18.71	Peak



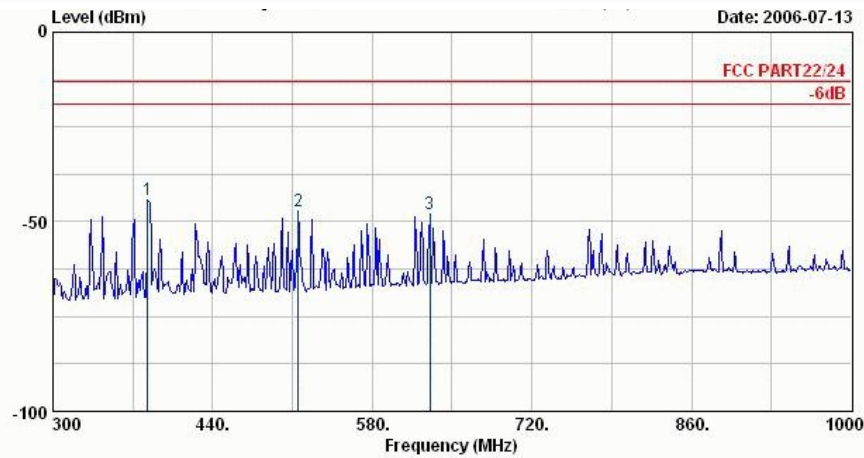


Vertical Polarization



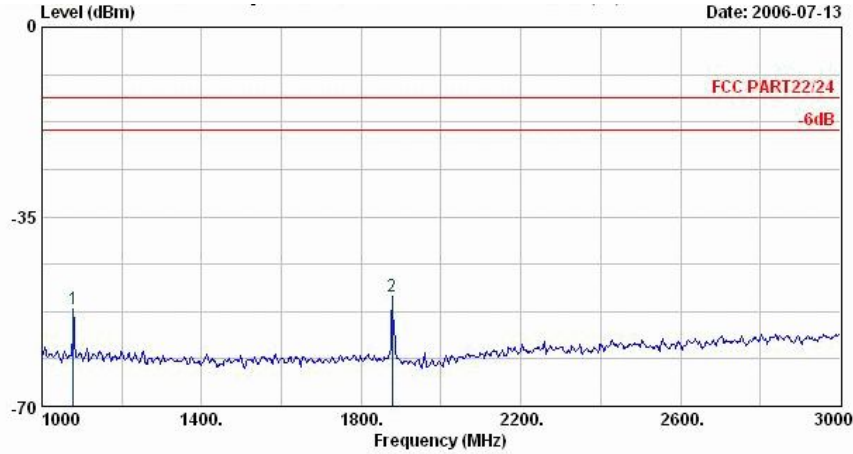
Site : 03CH06-HY
 Condition : LF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	44.04	-51.22	-38.22	-13.00	-38.31	-12.90	Peak
2	194.43	-50.94	-37.94	-13.00	-42.40	-8.55	Peak
3	295.68	-52.59	-39.59	-13.00	-46.05	-6.54	Peak



Site : 03CH06-HY
 Condition : LF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	383.30	-44.21	-31.21	-13.00	-39.53	-4.68	Peak
2 @	514.90	-47.32	-34.32	-13.00	-44.37	-2.95	Peak
3 @	630.40	-48.00	-35.00	-13.00	-46.52	-1.48	Peak

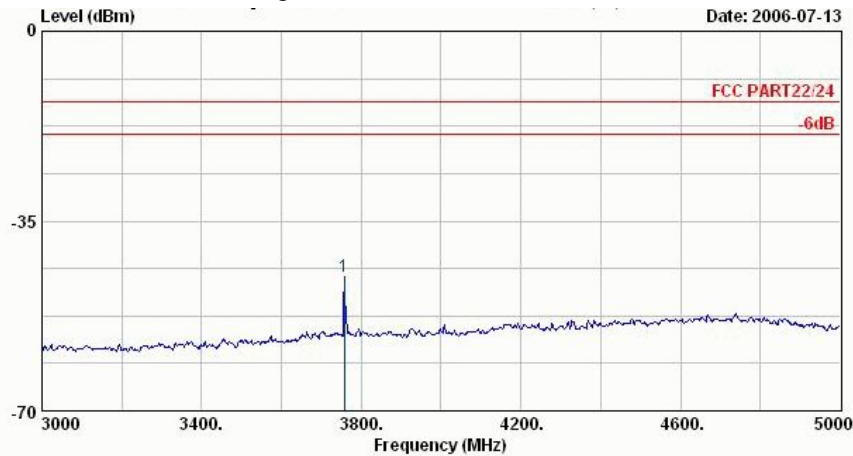


Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	1078.00	-52.01	-39.01	-13.00	-51.22	-0.79	Peak
2	1878.00	-49.79			-49.39	-0.40	Peak

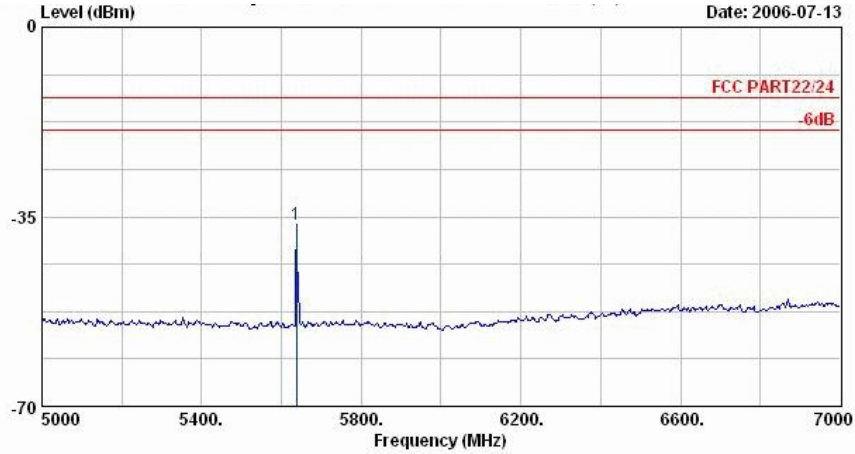
Remark:

1. #2: MS TCH Signal ◦



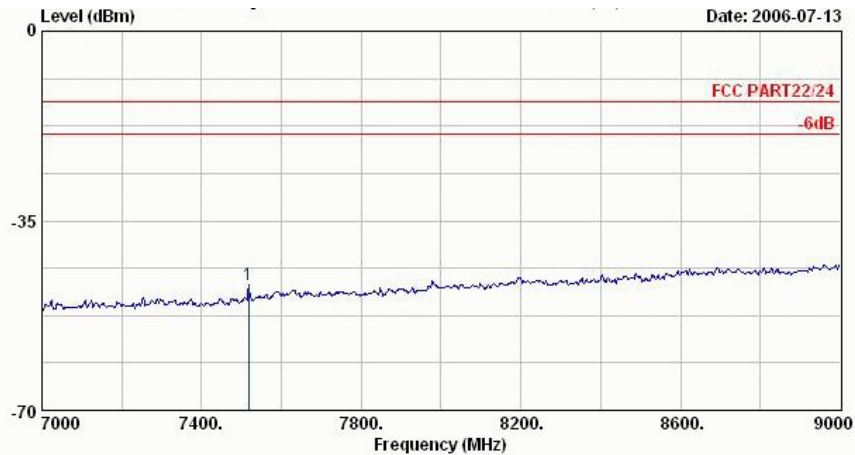
Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	3758.00	-45.33	-32.33	-13.00	-51.96	6.64	Peak



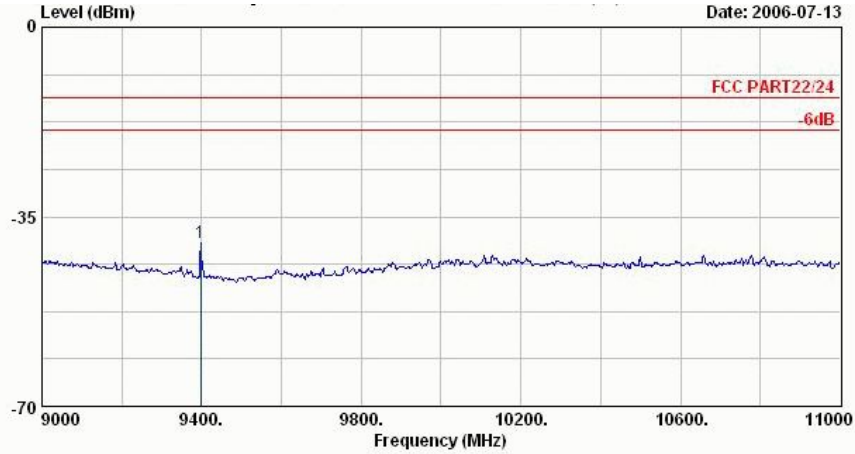
Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	5638.00	-36.39	-23.39	-13.00	-45.04	8.65	Peak



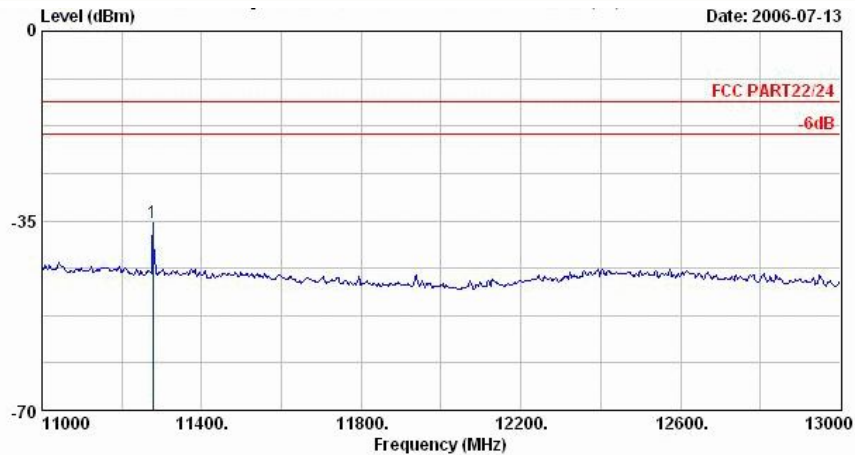
Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	7518.00	-46.77	-33.77	-13.00	-60.13	13.37	Peak



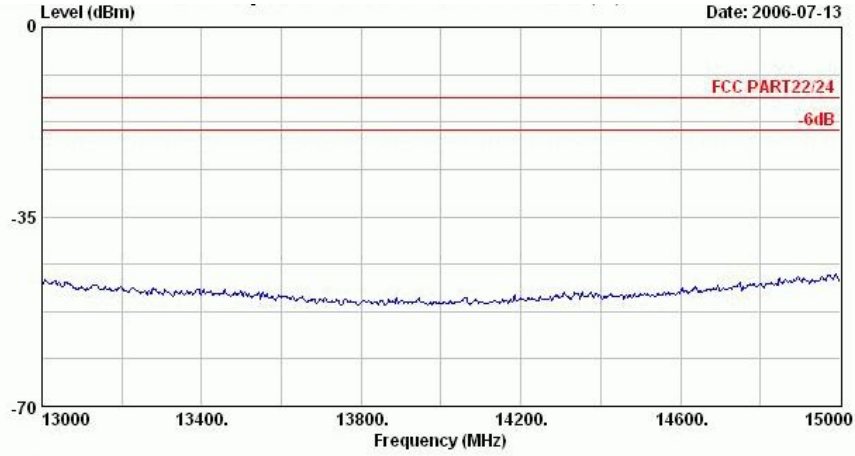
Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	9398.00	-39.82	-26.82	-13.00	-57.02	17.20	Peak

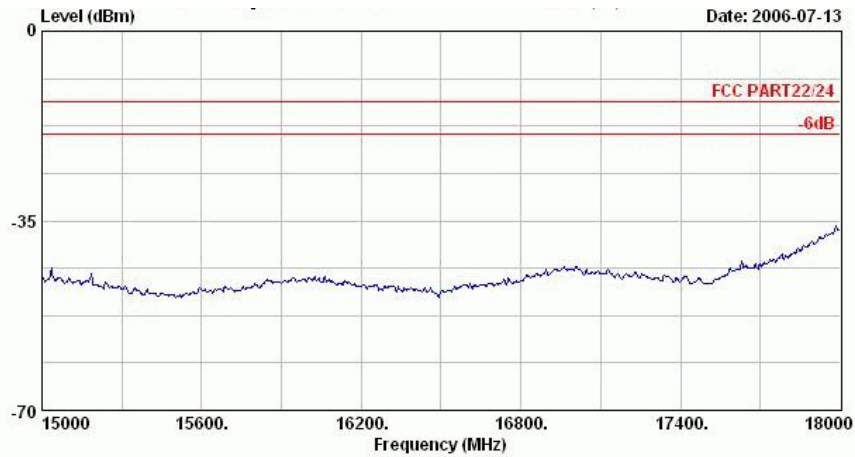


Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : PCS1900 Link;CH661+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	11278.00	-35.50	-22.50	-13.00	-54.37	18.87	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Quad band Mobile Phone
Power : 120Vac/60Hz
Model : FG 632921-02
Memo : PCS1900 Link;CH661+Adaptor
Plane : E1

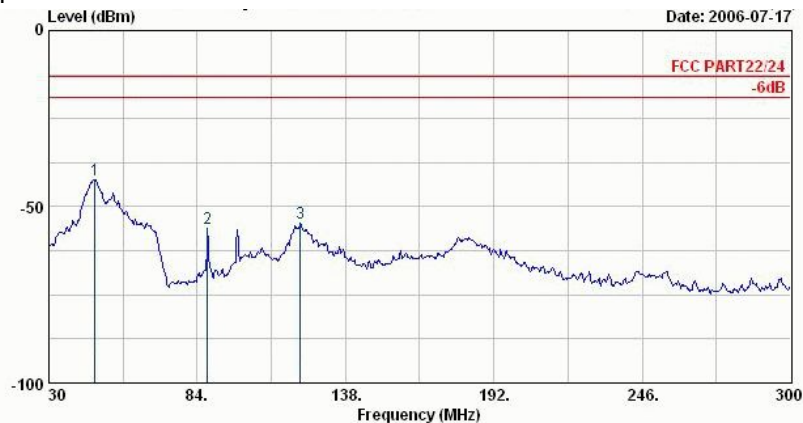


Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Quad band Mobile Phone
Power : 120Vac/60Hz
Model : FG 632921-02
Memo : PCS1900 Link;CH661+Adaptor
Plane : E1

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

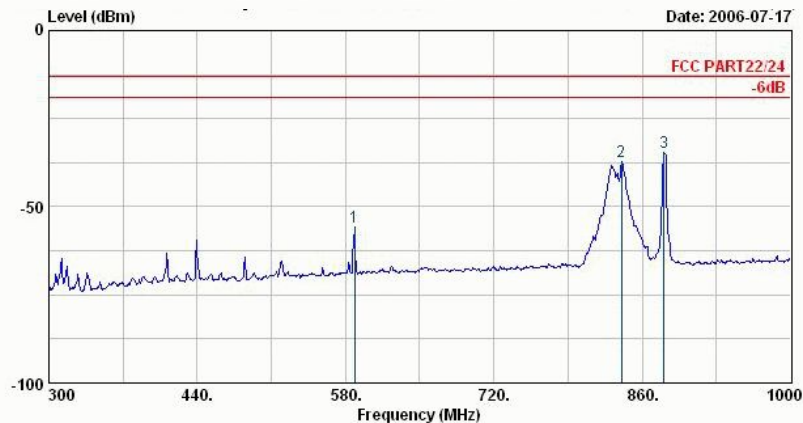


4.6.5.3 Mode 3
Horizontal Polarization



Site : 03CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189 + Adaptor
 Memo : +WLAN Tx CH01,2412MHz
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	46.74	-42.30	-29.30	-13.00	-32.30	-9.99	Peak
2	87.78	-56.11	-43.11	-13.00	-43.83	-12.28	Peak
3	121.53	-54.59	-41.59	-13.00	-42.11	-12.49	Peak

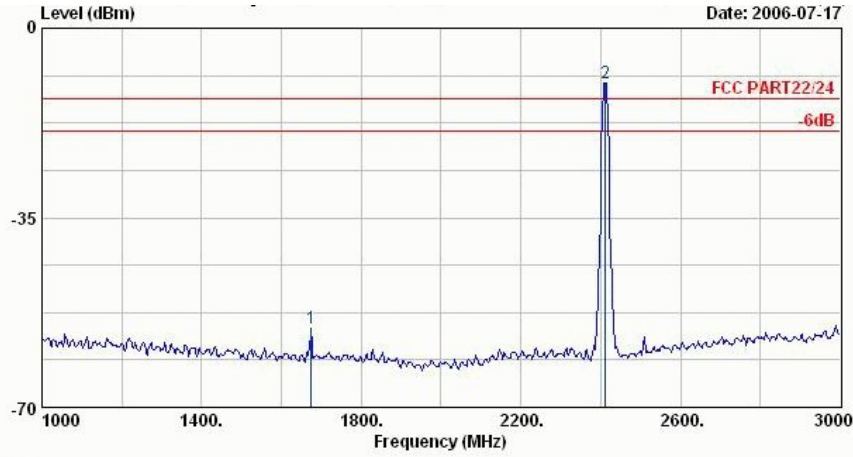


Site : 03CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189 + Adaptor
 Memo : +WLAN Tx CH01,2412MHz
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	588.40	-55.69	-42.69	-13.00	-51.79	-3.90	Peak
2 @	840.40	-37.16			-35.86	-1.31	Peak
3 @	880.30	-34.51			-33.59	-0.91	Peak

Remark:

- 1. #2: MS TCH Signal ◦
- 2. #3: BS TCH Signal ◦

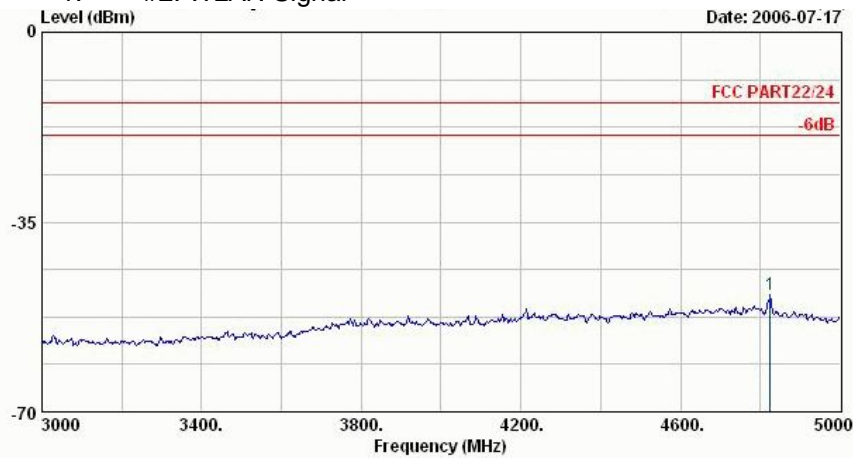


Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189 + Adaptor
 Memo : +WLAN Tx CH01;2412MHz
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1674.00	-55.37	-42.37	-13.00	-55.59	0.22	Peak
2 @	2412.00	-10.05			-10.94	0.89	Peak

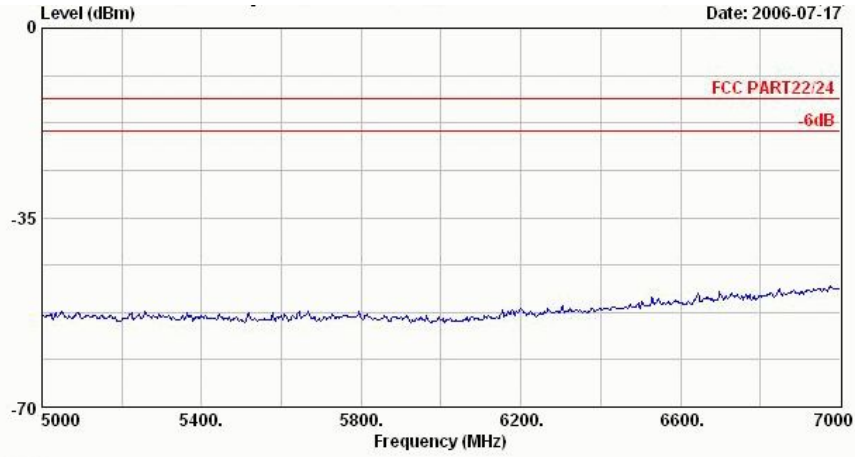
Remark:

1. #2: WLAN Signal °

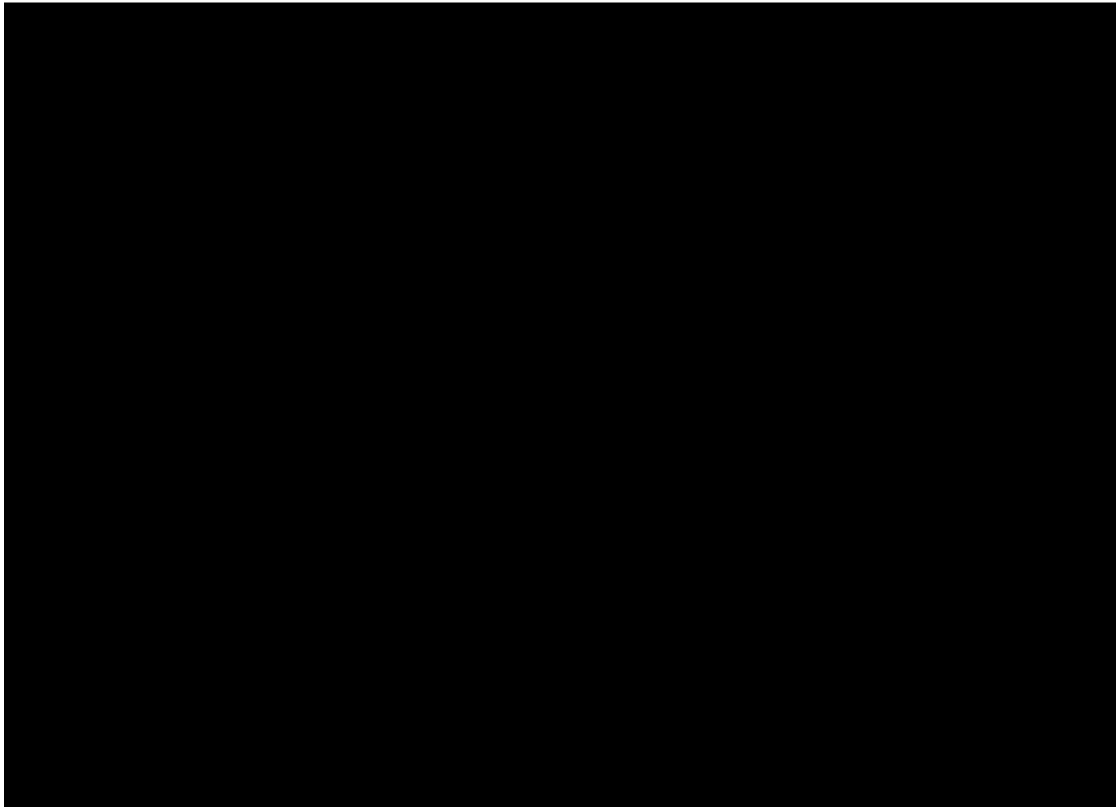


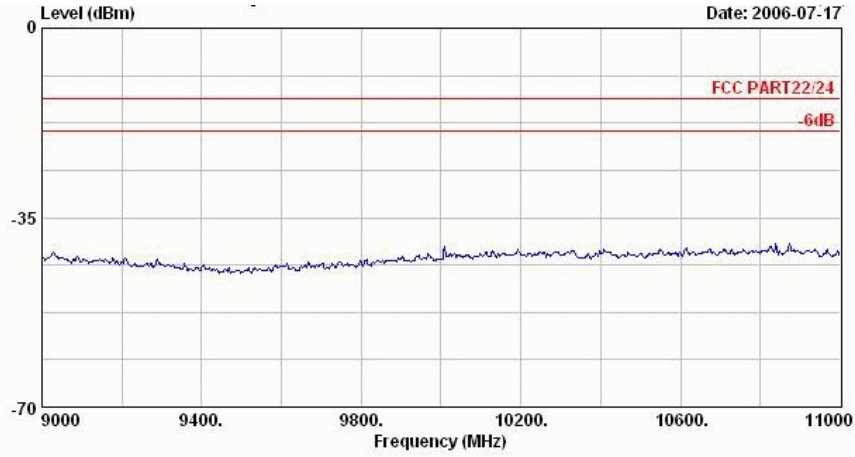
Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189 + Adaptor
 Memo : +WLAN Tx CH01;2412MHz
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	4824.00	-48.38	-35.38	-13.00	-59.93	11.55	Peak



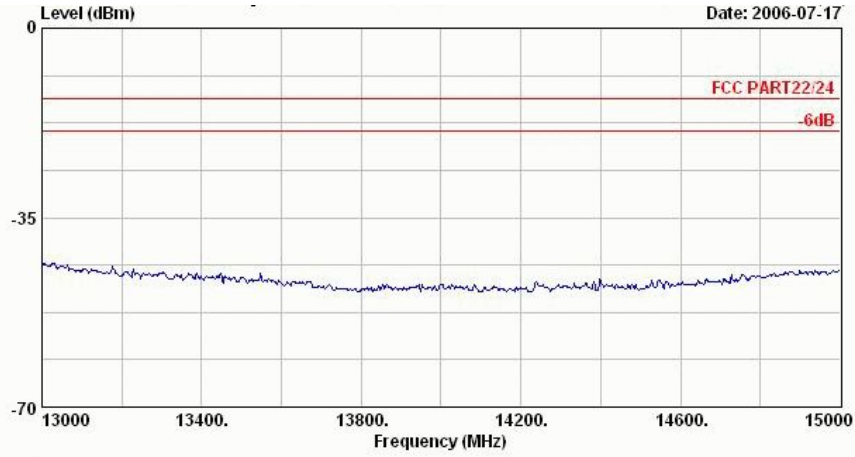
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Quad band Mobile Phone
Power : 120Vac/60Hz
Model : FG 632921-02
Memo : GSM850 Link;CH189 + Adaptor
Memo : +WLAN Tx CH01,2412MHz
Plane : E1



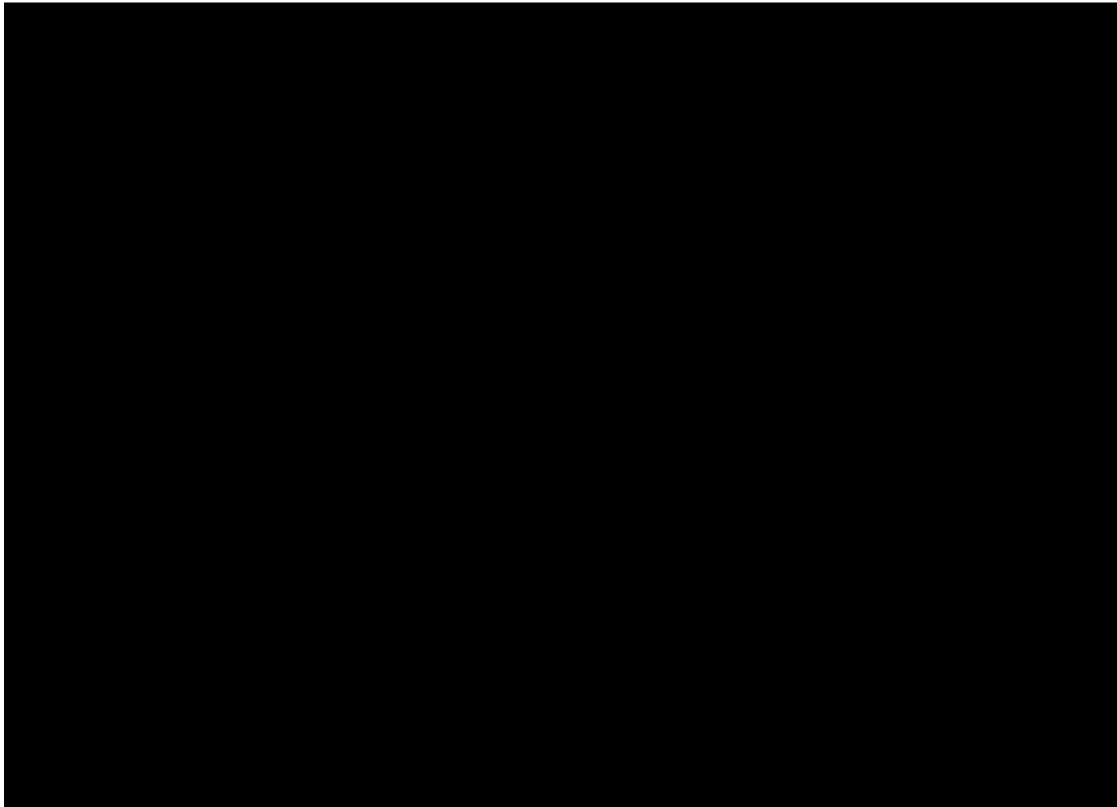


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Quad band Mobile Phone
Power : 120Vac/60Hz
Model : FG 632921-02
Memo : GSM850 Link;CH189 + Adaptor
Memo : +WLAN Tx CH01,2412MHz
Plane : E1



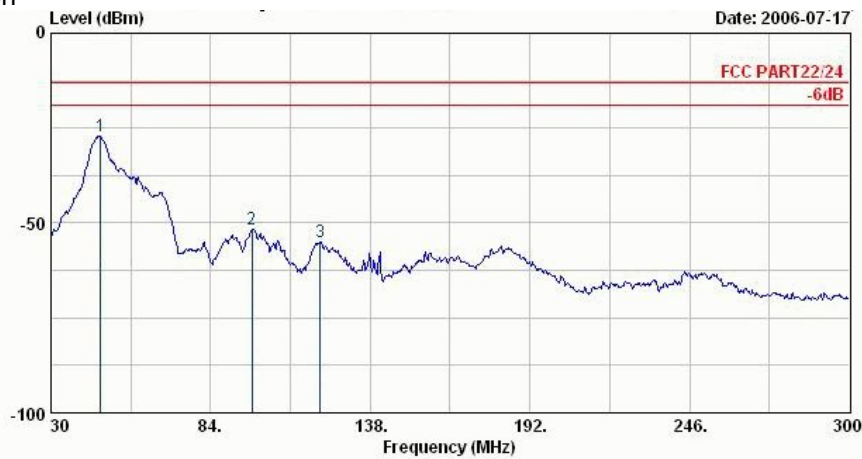


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Quad band Mobile Phone
Power : 120Vac/60Hz
Model : FG 632921-02
Memo : GSM850 Link;CH189 + Adaptor
Memo : +WLAN Tx CH01,2412MHz
Plane : E1



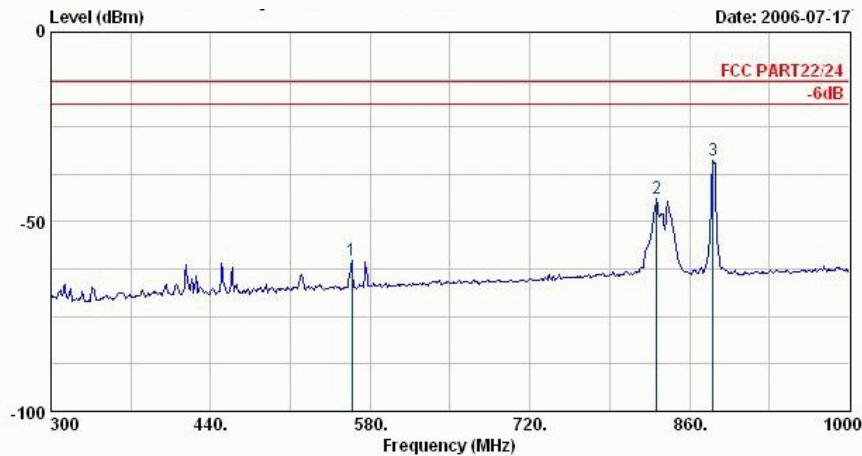


Vertical Polarization



Site : 03CH06-HY
 Condition : LF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189 + Adaptor
 Memo : +WLAN Tx CH01;2412MHz
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	46.74	-27.21	-14.21	-13.00	-13.48	-13.72	Peak
2	98.04	-51.61	-38.61	-13.00	-43.64	-7.97	Peak
3	120.99	-54.93	-41.93	-13.00	-47.05	-7.88	Peak

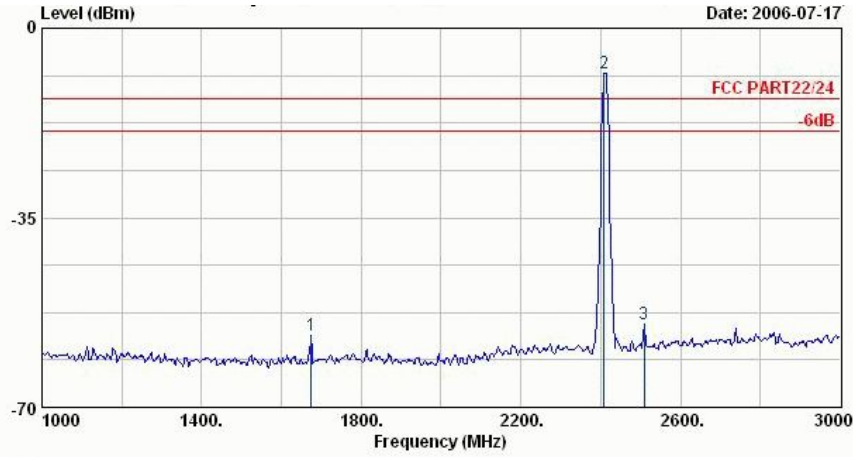


Site : 03CH06-HY
 Condition : LF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189 + Adaptor
 Memo : +WLAN Tx CH01;2412MHz
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	563.90	-60.34	-47.34	-13.00	-57.97	-2.37	Peak
2	831.30	-44.01			-45.33	1.32	Peak
3 @	880.30	-33.97			-35.68	1.71	Peak

Remark:

- 1.#1: MS TCH Signal ◦
- 2.#2: BS TCH Signal ◦

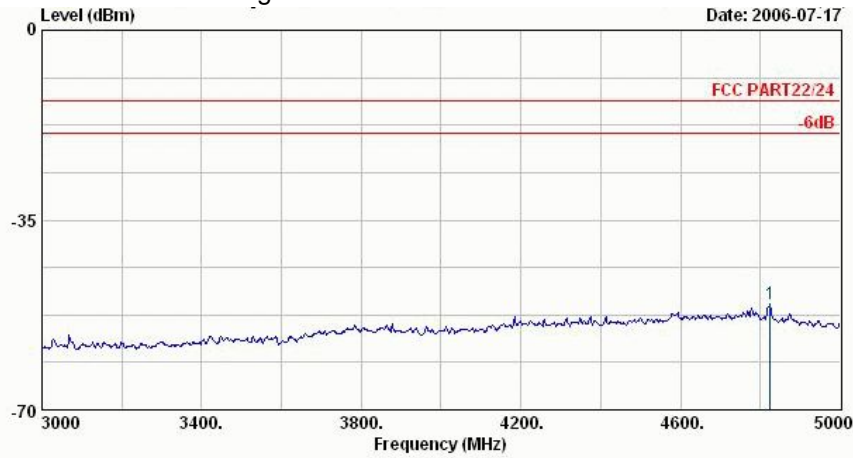


Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189 + Adaptor
 Memo : +WLAN Tx CH01;2412MHz
 Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	dB
1	1674.00	-56.66	-43.66	-13.00	-56.18	-0.48 Peak
2 @	2408.00	-8.35			-10.22	1.87 Peak
3	2508.00	-54.57	-41.57	-13.00	-56.84	2.27 Peak

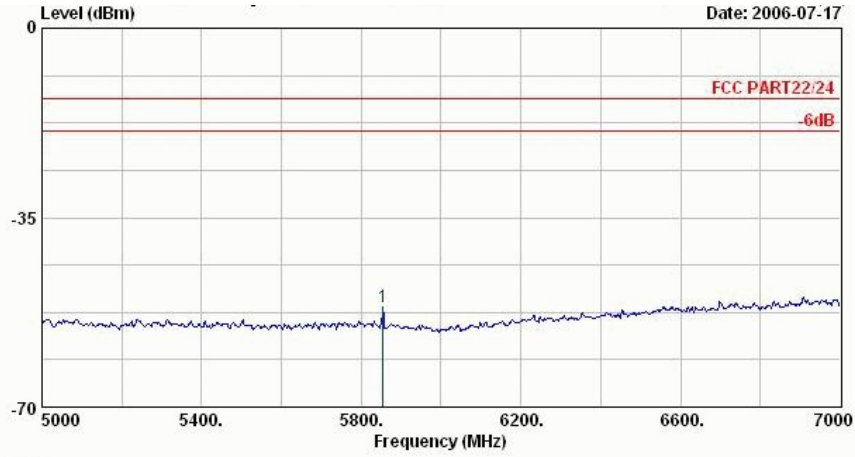
Remark:

1. #2: WLAN Signal °



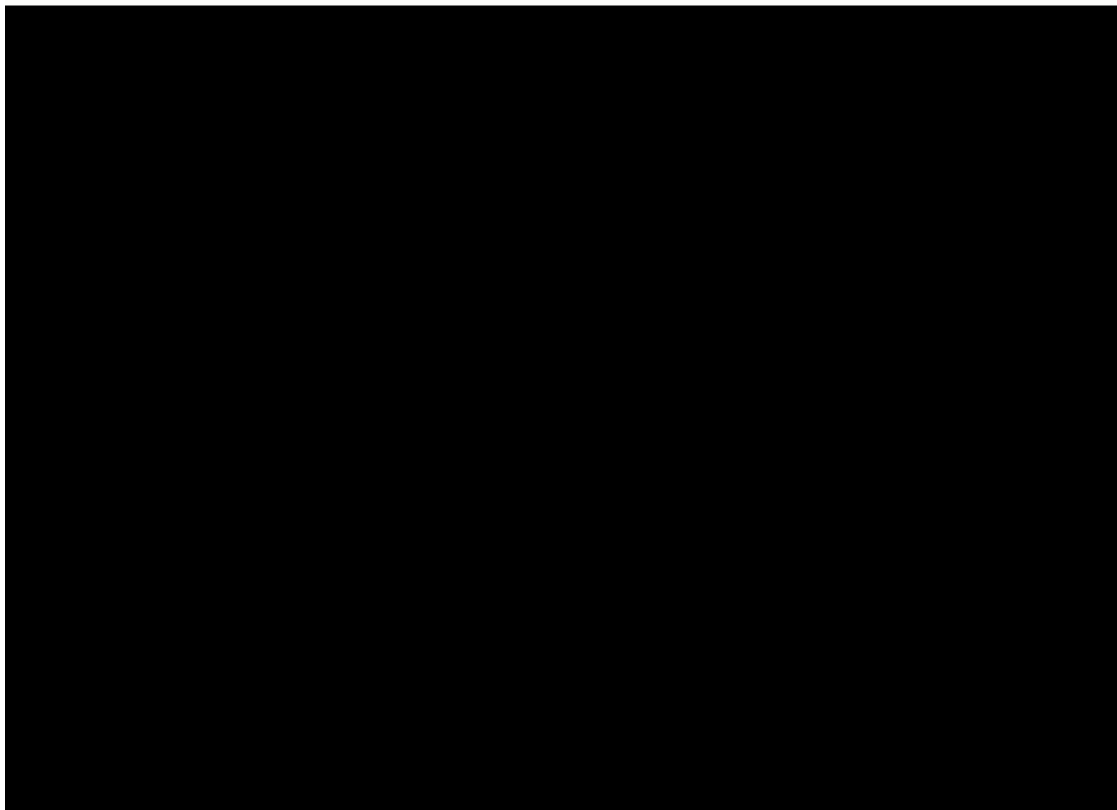
Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189 + Adaptor
 Memo : +WLAN Tx CH01;2412MHz
 Plane : E1

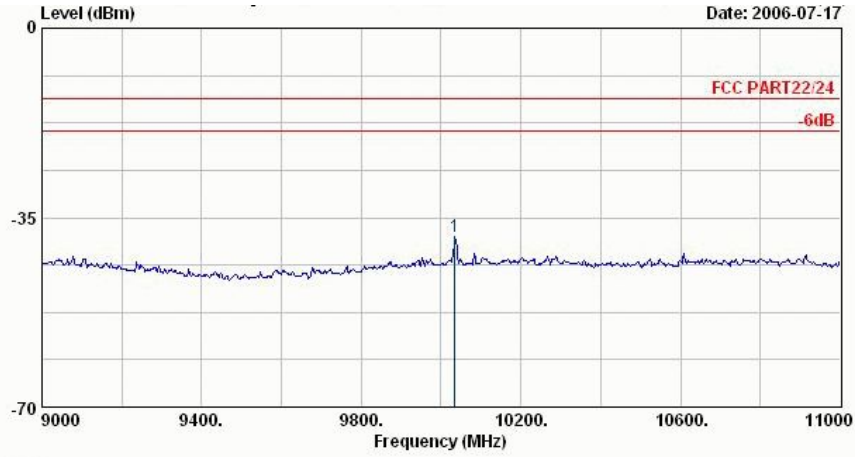
	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	dB
1	4824.00	-50.38	-37.38	-13.00	-60.61	10.23 Peak



Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189 + Adaptor
 Memo : +WLAN Tx CH01;2412MHz
 Plane : E1

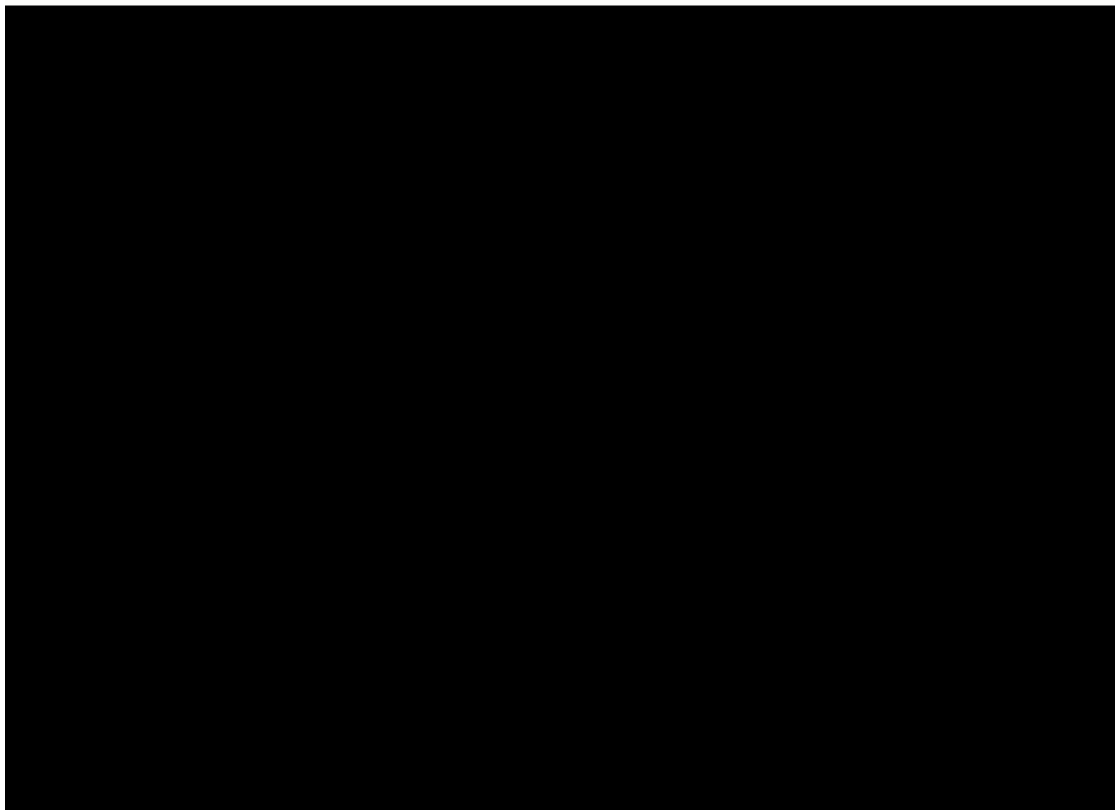
	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	5854.00	-51.49	-38.49	-13.00	-60.30	8.81	Peak

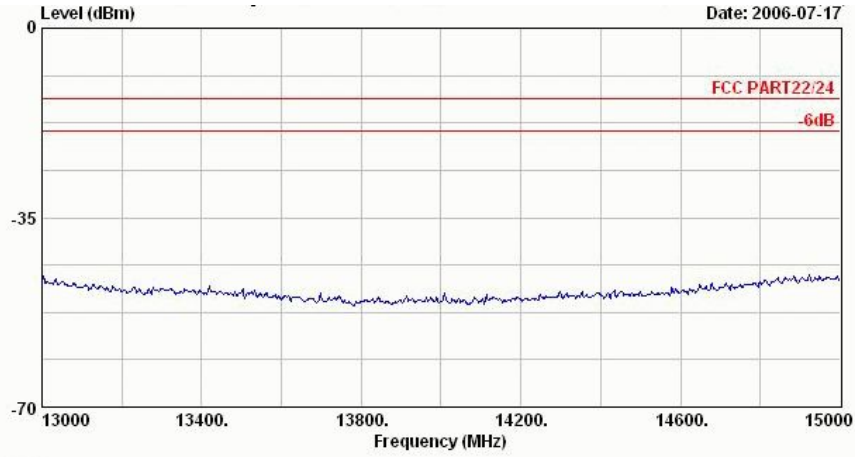




Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : Quad band Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 632921-02
 Memo : GSM850 Link;CH189 + Adaptor
 Memo : +WLAN Tx CH01,2412MHz
 Plane : E1

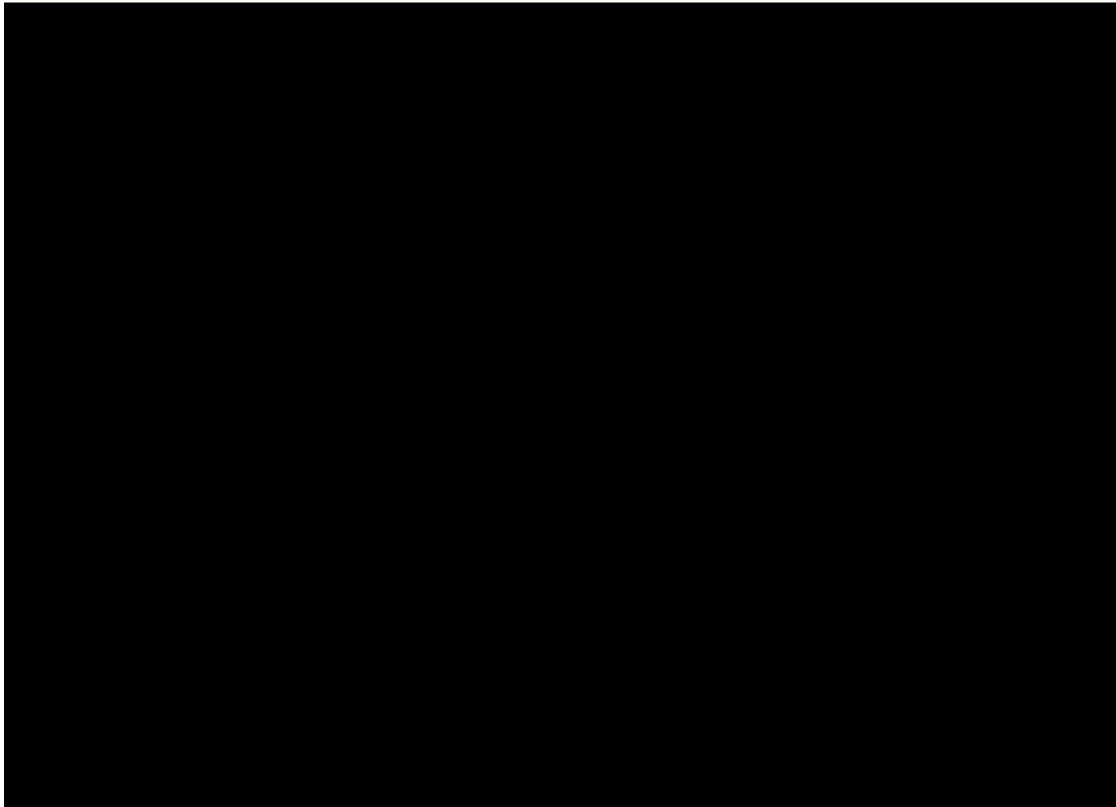
	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	10034.00	-38.62	-25.62	-13.00	-58.51	19.89	Peak





Date: 2006-07-17

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Quad band Mobile Phone
Power : 120Vac/60Hz
Model : FG 632921-02
Memo : GSM850 Link;CH189 + Adaptor
Memo : +WLAN Tx CH01,2412MHz
Plane : E1



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

4.7 Frequency Stability (Temperature Variation)

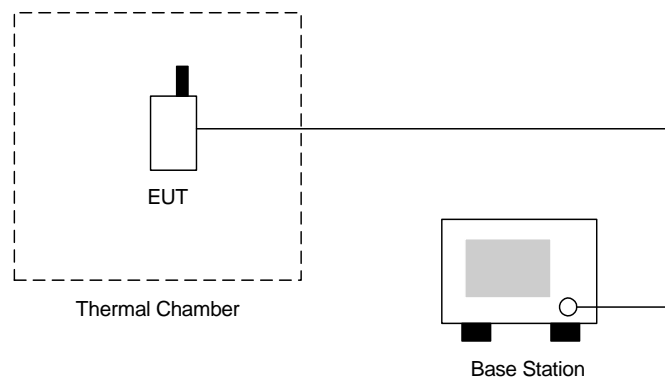
4.7.1 Measurement Instrument

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 -10°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 CH189

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-10	-27	-0.01	2.5	Passed
0	33	0.02		
10	-22	-0.01		
20	-16	-0.01		
30	-21	-0.01		
40	24	0.01		
50	22	0.01		

- Test Mode : PCS1900 CH661

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-10	-24	-0.01	2.5	Passed
0	39	0.02		
10	20	0.01		
20	-21	-0.01		
30	-39	-0.02		
40	39	0.02		
50	-32	-0.02		

4.8 Frequency Stability (Voltage Variation)

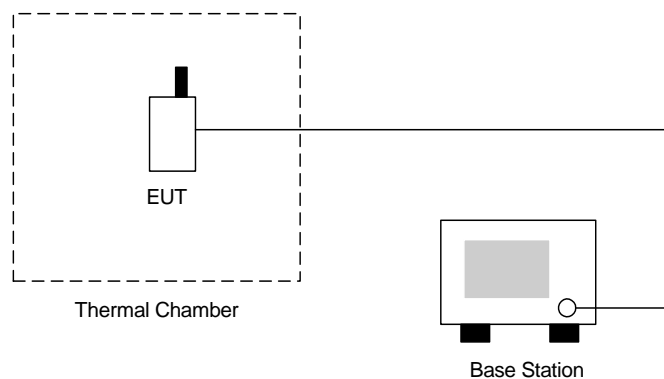
4.8.1 Measurement Instrument

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	-20.0	-0.01	2.5	Passed
BEP	-24.0	-0.01		
4.2	22.0	0.01		

- Test Mode : PCS (GSM) CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	-32.0	-0.02	2.5	Passed
BEP	-24.0	-0.01		
4.2	-25.0	-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
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. 26, 2006	Jun. 25, 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, 2004	Nov. 20, 2006	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 1, 2005	Jan. 31, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
HF Amplifier	MITEQ	AFS44	973248	0.1G - 26.5G	Dec. 17, 2005	Dec. 17, 2006	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)



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