



FCC TEST REPORT

for

47 CFR Part 22H, 24E

Equipment : PDA Phone
Trade Name : Opticon
Model No. : H-16A, H-16B
FCC ID : DGIBC0129AAA190
Tx Frequency Range : GSM850 : 824~849 MHz
PCS1900 : 1850~1910 MHz
Max. ERP/EIRP Power : GSM850(GSM) : 1.49 W
GSM850(EDGE) : 0.39 W
PCS1900(GSM) : 0.33 W
PCS1900(EDGE) : 0.08 W
Emission Designator : GSM : 300KGXW
EDGE : 300KG7W
Applicant : **Inventec Corporation**
Inventec Building, 66 Hou-Kang Street, Shih-Lin District,
Taipei 11170, Taiwan

- The test result refers exclusively to the test presented test model / sample.
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- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.**
- The data shown in this test report were carried out on Dec. 23, 2006 at **Sporton International Inc. LAB.**
- Report No.: FG6N2811, Report Version: Rev. 01.

Roy Wu
Deputy Manager

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.



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Appendix A - Setup Photographs



History of this test report

Report Issue Date: Jan. 09, 2007

Report No.	Description



1. General Information

1.1. Applicant

Inventec Corporation

Inventec Building, 66 Hou-Kang Street, Shih-Lin District, Taipei 11170, Taiwan

1.2 Manufacturer

Inventec Corporation

Inventec Building, 66 Hou-Kang Street, Shih-Lin District, Taipei 11170, Taiwan

1.3 Basic Description of Equipment under Test

Equipment	: PDA Phone
Trade Name	: Opticon
Model No.	: H-16A, H-16B
FCC ID	: DGIBC0129AAA190
Power Supply Type	: Switching, From Battery 4.2V
Adapter	: PI Electronics, AD7112B 03LF
Battery	: OPTICON, H-16
Earphone	: TECHWIN Communication Co. Ltd., EE-624A-8EN
Scanner 1	: OPTOELECTRONICS, MDI-1000
Scanner 2	: OPTOELECTRONICS, MDL-2000

**1.4 Feature of Equipment under Test**

DUT Type :	PDA Phone
Trade Name :	Opticon
Model Name :	H-16A, H-16B
FCC ID :	DGIBC0129AAA190
Tx Frequency :	GSM850 : 824 ~ 849 MHz PCS1900 : 1850 ~ 1910 MHz
Rx Frequency :	GSM850 : 869 ~ 894 MHz PCS1900 : 1930 ~ 1990 MHz
Maximum Output Power to Antenna :	GSM : 32.13 dBm(GSM) ; 32.06 dBm(GPRS8) ; 30.29 dBm(GPRS10) ; 26.7 dBm(GPRS12) ; 26 dBm(EDGE8) ; 23.8 dBm(EDGE10) ; 19.5 dBm(EDGE12) DCS : 29.26 dBm(GSM) ; 29.25 dBm(GPRS8) ; 27.39 dBm(GPRS10) ; 23.8 dBm(GPRS12) ; 25.5 dBm(EDGE8) ; 23.4 dBm(EDGE10) ; 19.3 dBm(EDGE12)
Maximum ERP/EIRP :	GSM850(GSM) : 1.49 W (31.73 dBm) GSM850(EDGE8) : 0.39 W (25.94 dBm) PCS1900(GSM) : 0.33 W (25.17 dBm) PCS1900(EDGE8) : 0.08 W (19.22 dBm)
Antenna Type :	GSM/DCS: Fixed Internal Bluetooth: Chip Antenna WLAN: PIFA Antenna
HW Version :	0.1
SW Version :	0.1
Power Rating (DC/AC , Voltage and Current of RF element or PA) :	DC 4.2V / 1440mA
Digital Modulation Emission :	GMSK
Type of Emission :	GSM : 300KGXW EDGE : 300KG7W
Device Power Class :	GSM850 : 4 PCS1900 : 1
DUT Stage :	Identical Prototype

1.5 Report Date

EUT Received : Nov. 28, 2006

Report Date : Jan. 09, 2007

2 Test Configuration of Equipment under Test

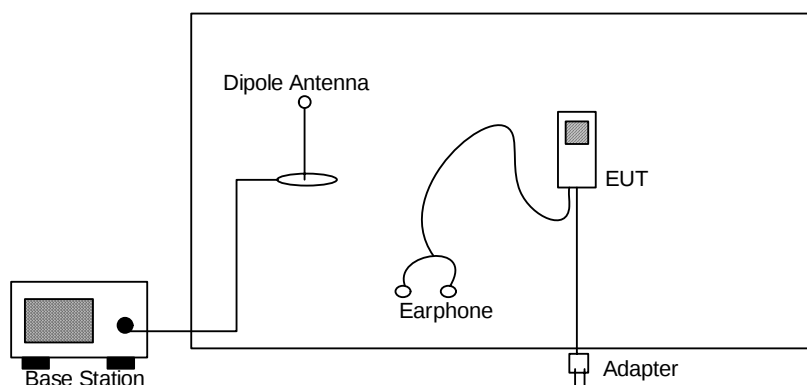
2.1 Test Manner

- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode with base station emulator at maximum power level.
- Frequency range investigated: radiated emission 30 MHz to 9000 MHz for GSM850; 30MHz to 19000 MHz for PCS.

2.2 Test Mode

Application	GSM850	PCS1900
Radiated Emission	☒ Mode 1: GSM Link_CH 189	☒ Mode 3: GSM Link_CH 661
	☒ Mode 2: EDGE Link_CH 189	☒ Mode 4: EDGE Link_CH 661
	☒ Mode 5: GSM Link with WLAN Link	
Conducted Measurement	☒ Mode 1: GSM_CH 189	☒ Mode 3: GSM_CH 661
	☒ Mode 2: EDGE_CH 189	☒ Mode 4: EDGE_CH 661

2.3 Connection Diagram of Test System



2.4 Ancillary Equipment List

Item	Equipment	Model No.	Serial No.
1.	Base Station(R&S)	CMU200	106656



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 : 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, 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

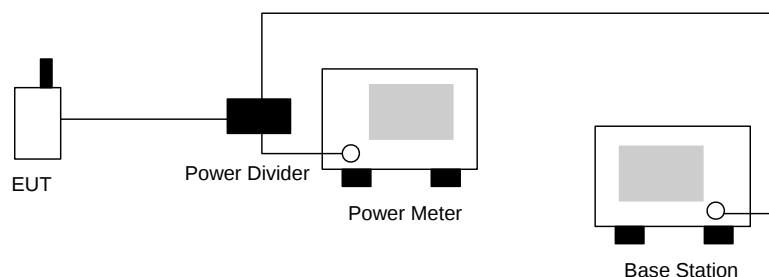
4.2.1 Measurement Instruments :

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 (GSM)	128	824.2 (Low)	32.13	1.633
	189	836.4 (Mid)	32.09	1.618
	251	848.8 (High)	32.07	1.611
GSM850 (EDGE8)	128	824.2 (Low)	26.00	0.398
	189	836.4 (Mid)	25.90	0.389
	251	848.8 (High)	25.90	0.389
PCS1900 (GSM)	512	1850.2 (Low)	29.26	0.843
	661	1880.0 (Mid)	29.23	0.838
	810	1909.8 (High)	29.08	0.809
PCS1900 (EDGE8)	512	1850.2 (Low)	25.50	0.355
	661	1880.0 (Mid)	25.40	0.347
	810	1909.8 (High)	25.30	0.339



4.3 ERP / EIRP Measurement

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

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.

$E_t = R_t + AF$

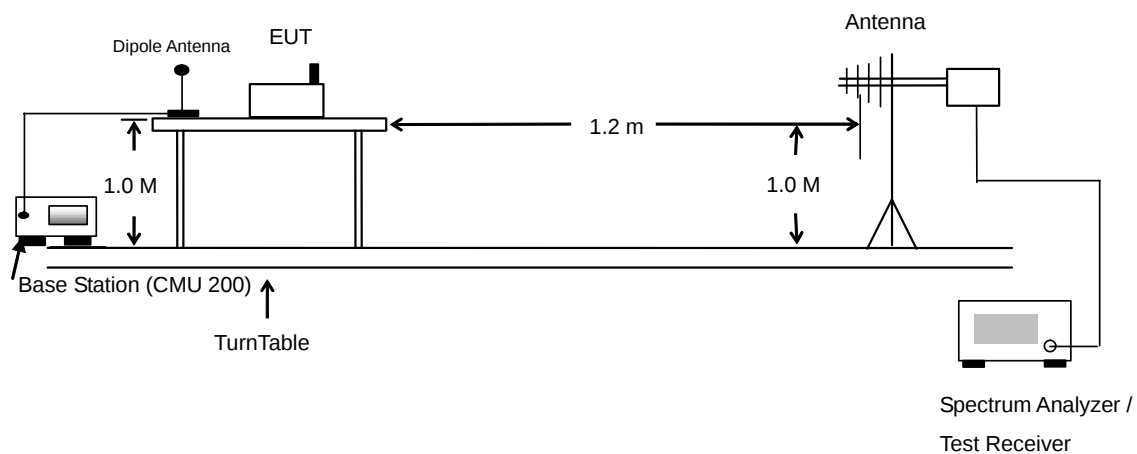
$E_s = R_s + AF$

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 (GSM) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-18.07	-48.12	0.00	-1.08	28.97	0.79
836.40	-16.70	-48.28	0.00	-0.93	30.65	1.16
848.80	-15.86	-48.35	0.00	-0.76	31.73	1.49
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-33.58	-47.97	0.00	-1.08	13.31	0.02
836.40	-32.34	-48.01	0.00	-0.93	14.74	0.03
848.80	-31.45	-48.05	0.00	-0.76	15.84	0.04

GSM850 (EDGE8) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-23.72	-48.12	0.00	-1.08	23.32	0.21
836.40	-22.47	-48.28	0.00	-0.93	24.88	0.31
848.80	-21.65	-48.35	0.00	-0.76	25.94	0.39
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-39.31	-47.97	0.00	-1.08	7.58	0.01
836.40	-38.08	-48.01	0.00	-0.93	9.00	0.01
848.80	-37.19	-48.05	0.00	-0.76	10.10	0.01



PCS1900 (GSM) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-30.73	-51.88	0.00	1.96	23.11	0.20
1880.00	-33.34	-52.99	0.00	2.00	21.65	0.15
1909.80	-35.83	-54.28	0.00	1.98	20.43	0.11
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-28.92	-52.13	0.00	1.96	25.17	0.33
1880.00	-31.12	-53.17	0.00	2.00	24.05	0.25
1909.80	-32.79	-54.13	0.00	1.98	23.32	0.21

PCS1900 (EDGE8) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-36.71	-51.88	0.00	1.96	17.13	0.05
1880.00	-39.13	-52.99	0.00	2.00	15.86	0.04
1909.80	-41.50	-54.28	0.00	1.98	14.76	0.03
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-34.87	-52.13	0.00	1.96	19.22	0.08
1880.00	-36.91	-53.17	0.00	2.00	18.26	0.07
1909.80	-38.45	-54.13	0.00	1.98	17.66	0.06

4.4 Occupied Bandwidth and Band Edge Measurement

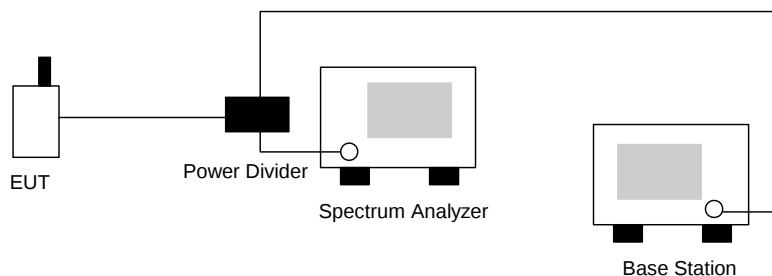
4.4.1 Measurement Instruments

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 99% 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.

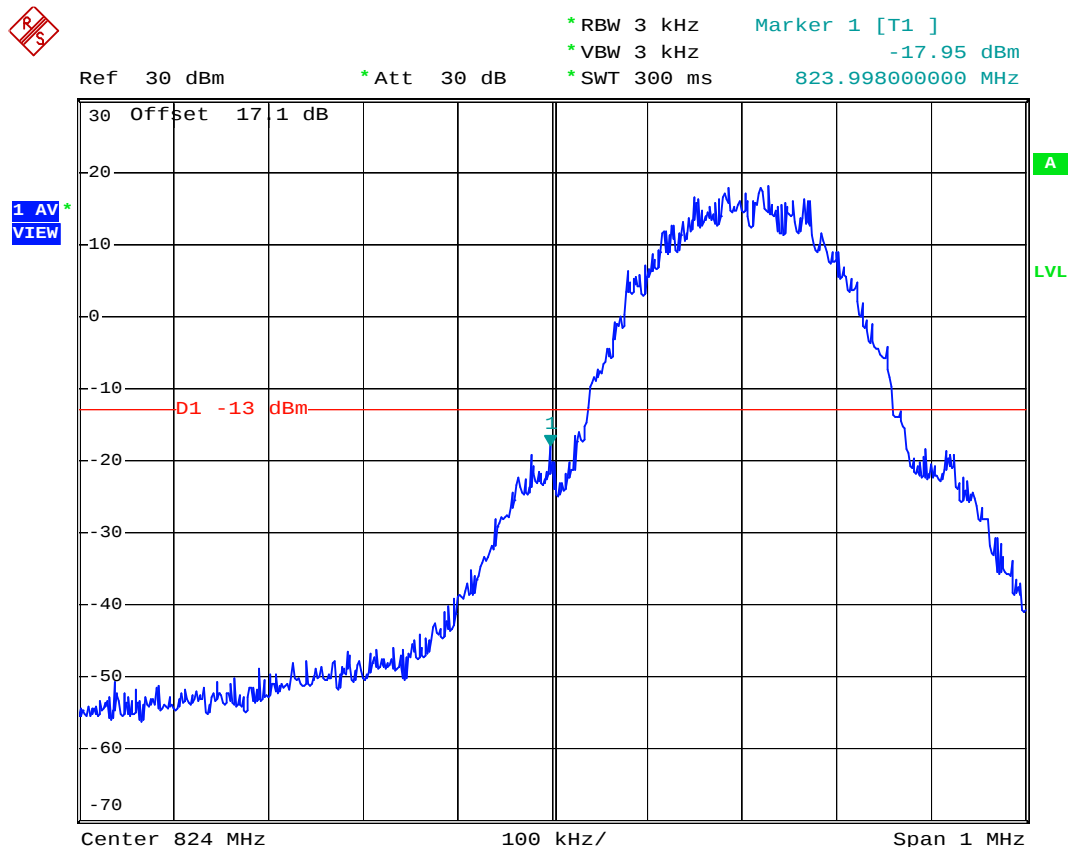
4.4.3 Test Setup Layout





4.4.4 Test Result

- Mode 1
- Test Mode : GSM850 (GSM) CH128 Lower Band Edge
- Power State : High



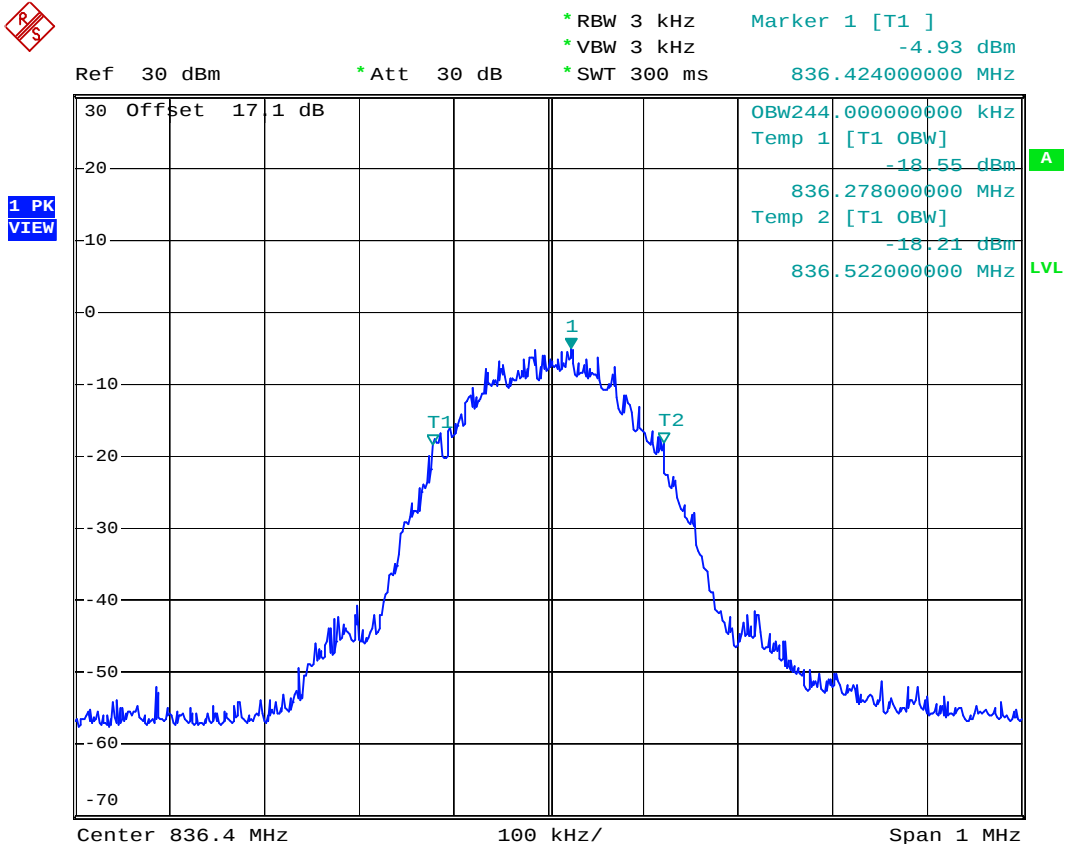
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : GSM850 (GSM) CH189 99% Occupied Bandwidth
- Power State : Low



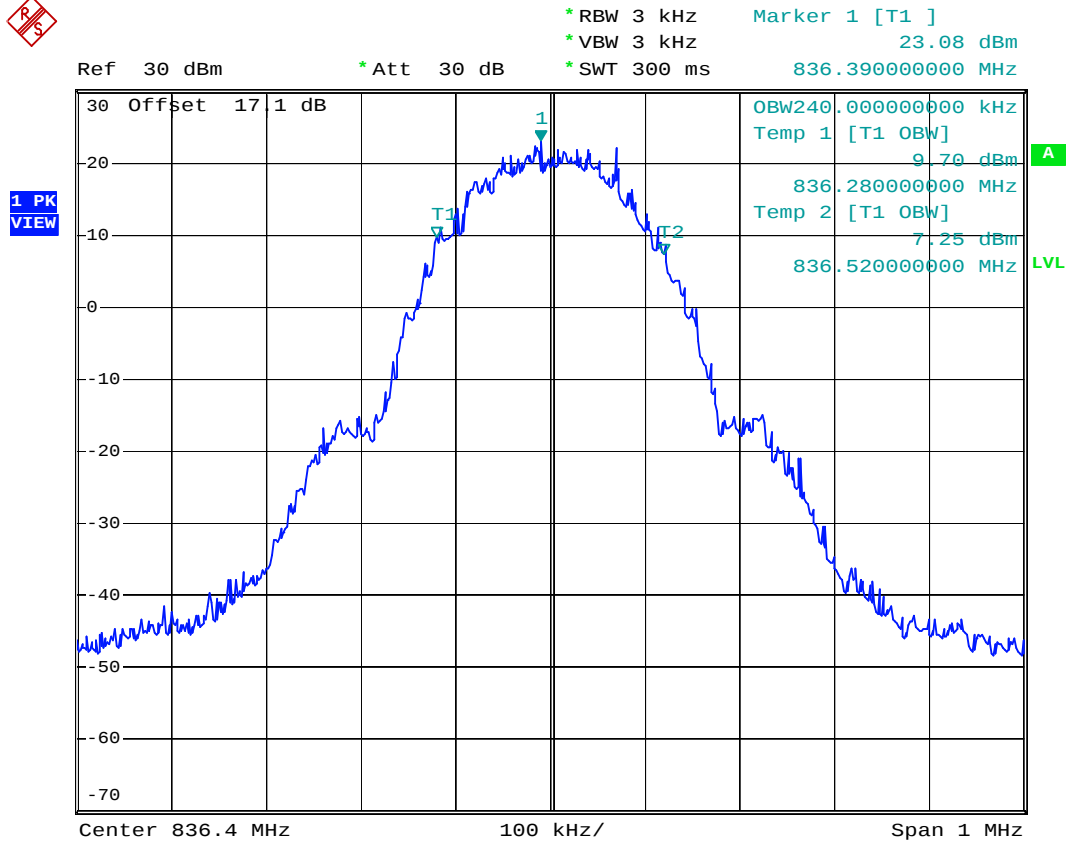
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : GSM850 (GSM) CH189 99% Occupied Bandwidth
- Power State : High



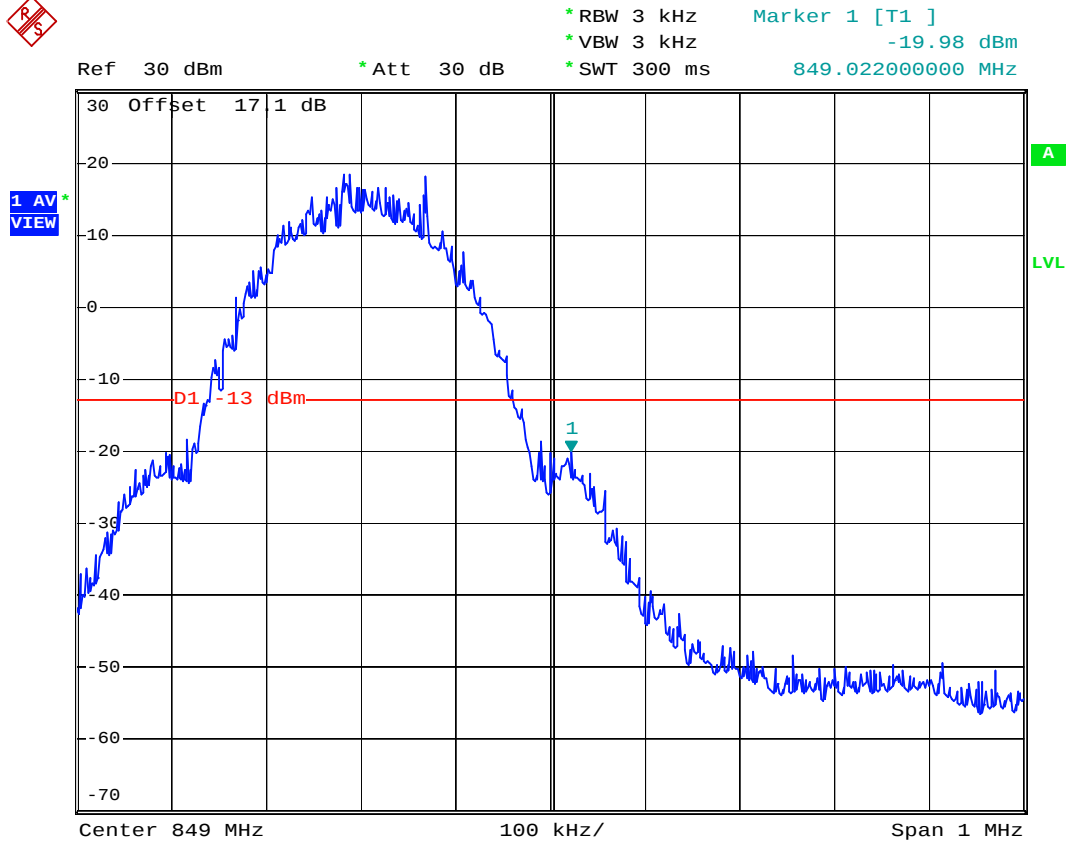
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FCC TEST REPORT

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- Test Mode : GSM850 (GSM) CH251 Higher Band Edge
- Power State : High



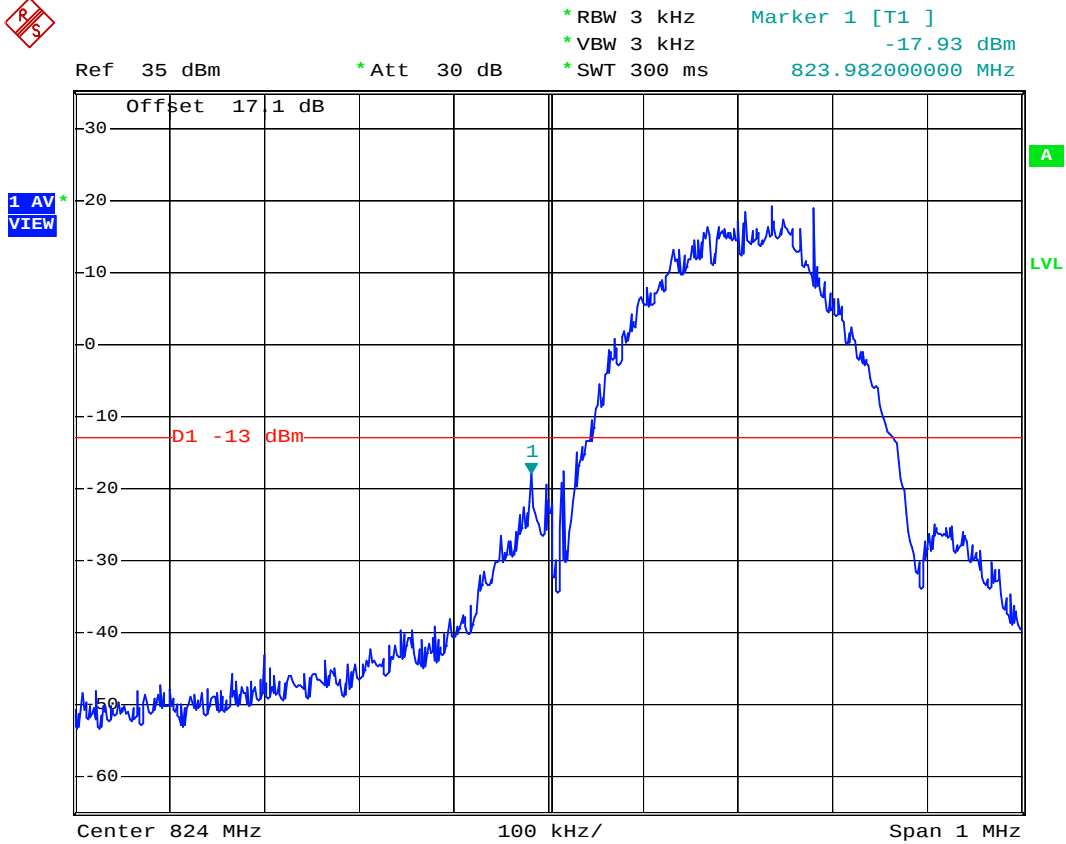
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FCC TEST REPORT

Report No. : FG6N2811

- Mode 2
- Test Mode : GSM850 (EDGE8) CH128 Lower Band Edge
- Power State : High



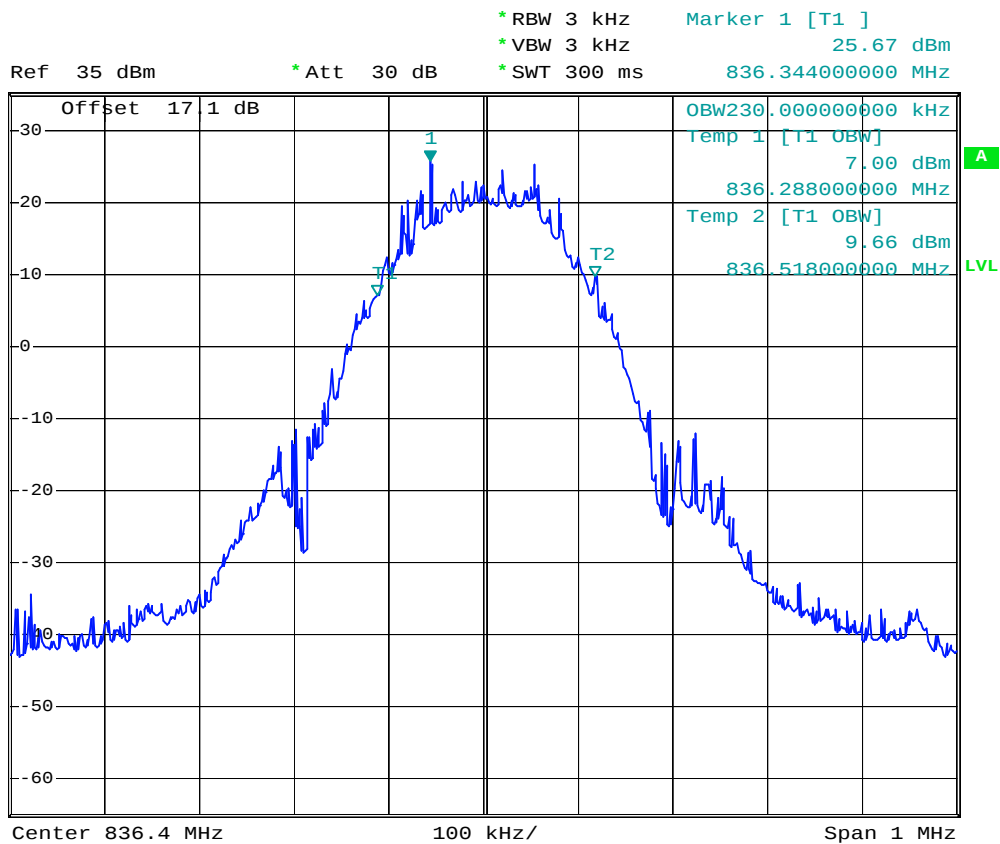
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : GSM850 (EDGE8) CH189 99% Occupied Bandwidth
- Power State : High



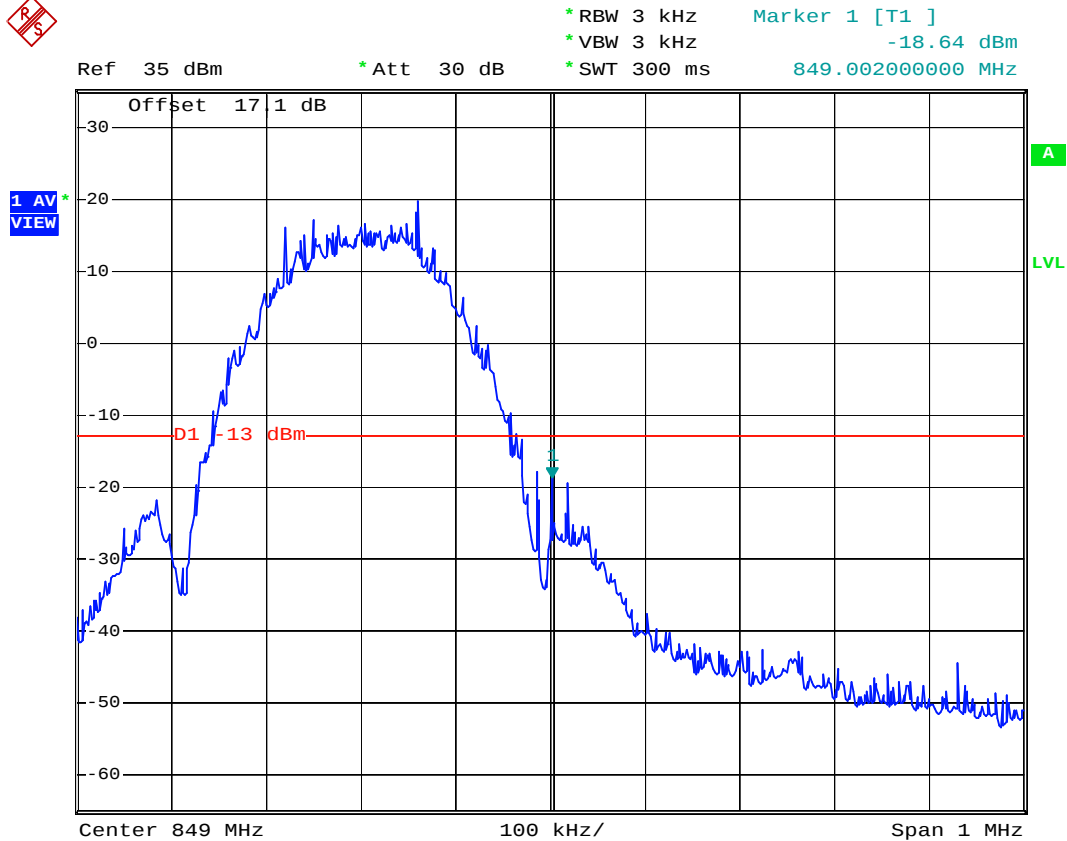
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : GSM850 (EDGE8) CH251 Higher Band Edge
- Power State : High



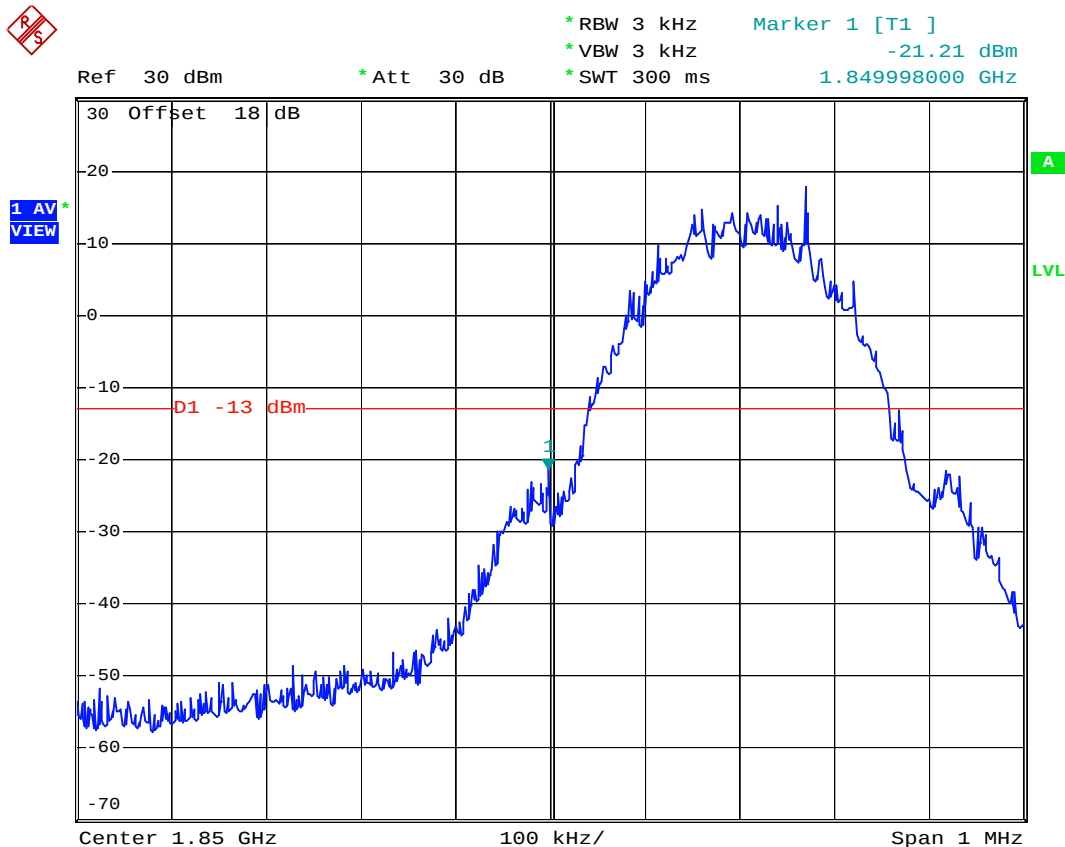
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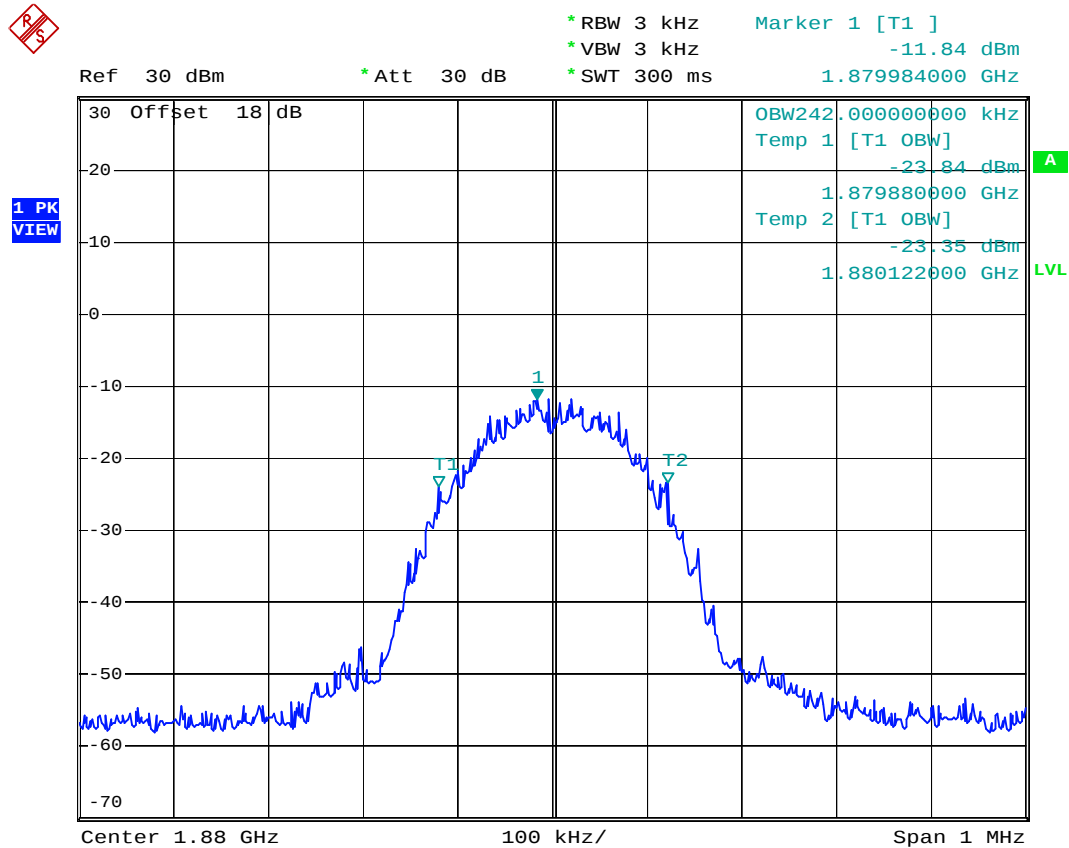
Report No. : FG6N2811

- Mode 3
- Test Mode : PCS1900 (GSM) CH512 Lower Band Edge
- Power State : High



Date: 5.DEC.2006 17:22:11

- Test Mode : PCS1900 (GSM) CH661 99% Occupied Bandwidth
- Power State : Low



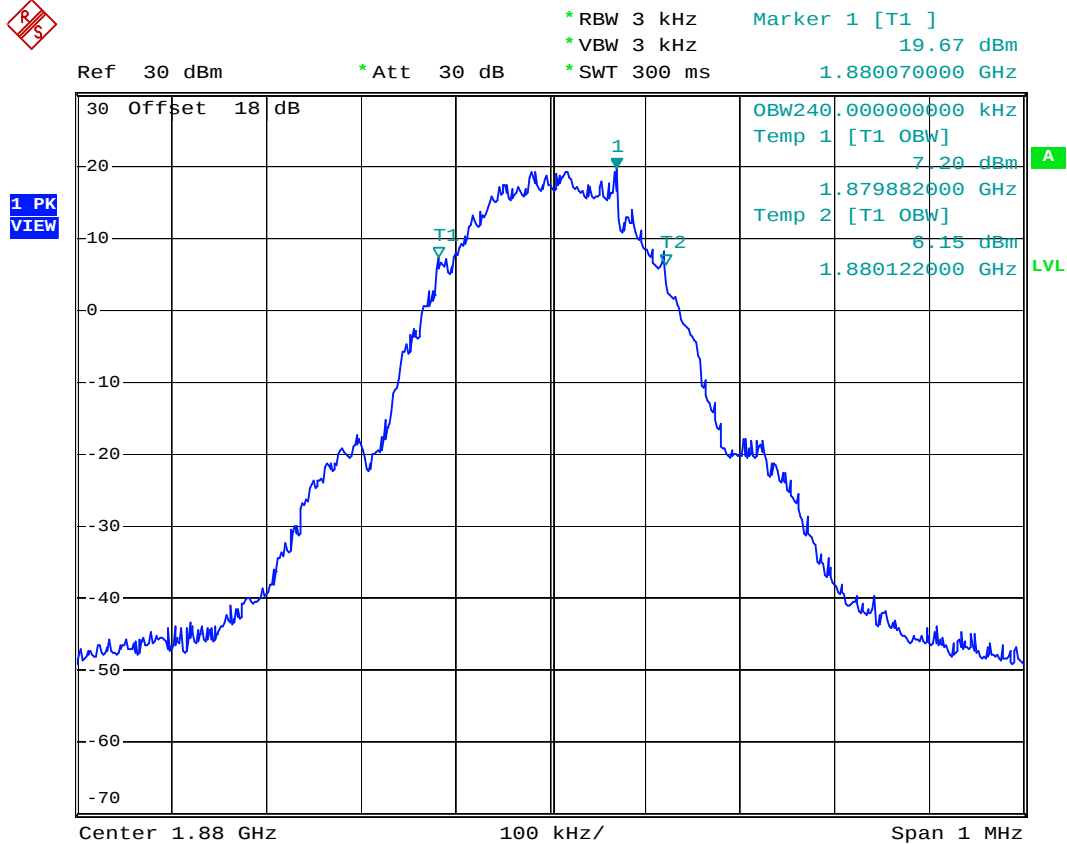
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900 (GSM) CH661 99% Occupied Bandwidth
- Power State : High



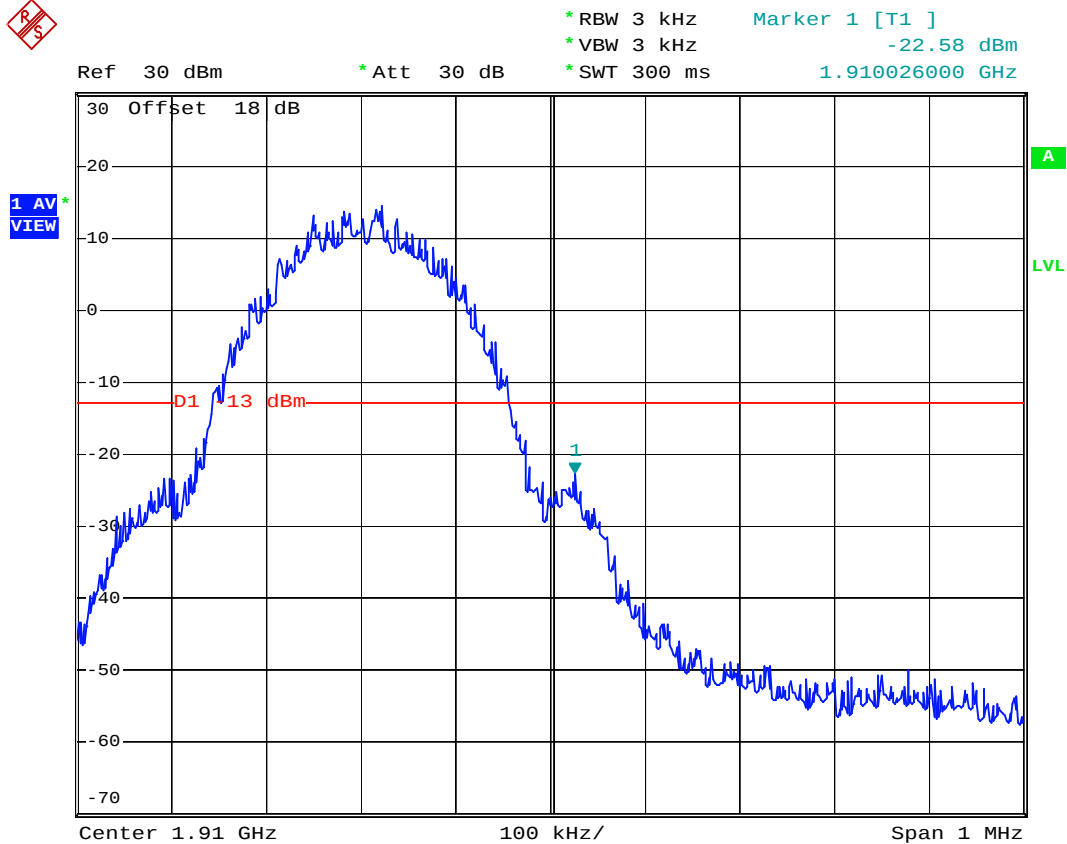
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900 (GSM) CH810 Higher Band Edge
- Power State : High



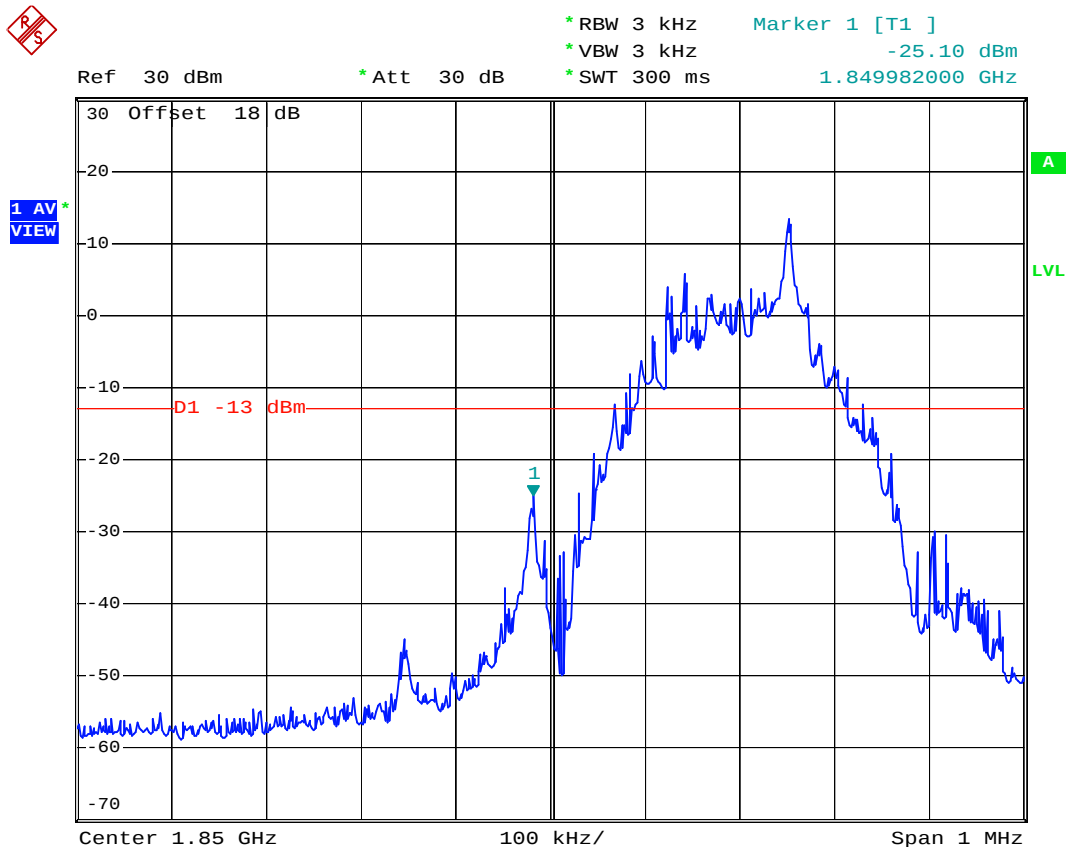
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FCC TEST REPORT

Report No. : FG6N2811

- Mode 4
- Test Mode : PCS1900 (EDGE8) CH512 Lower Band Edge
- Power State : High



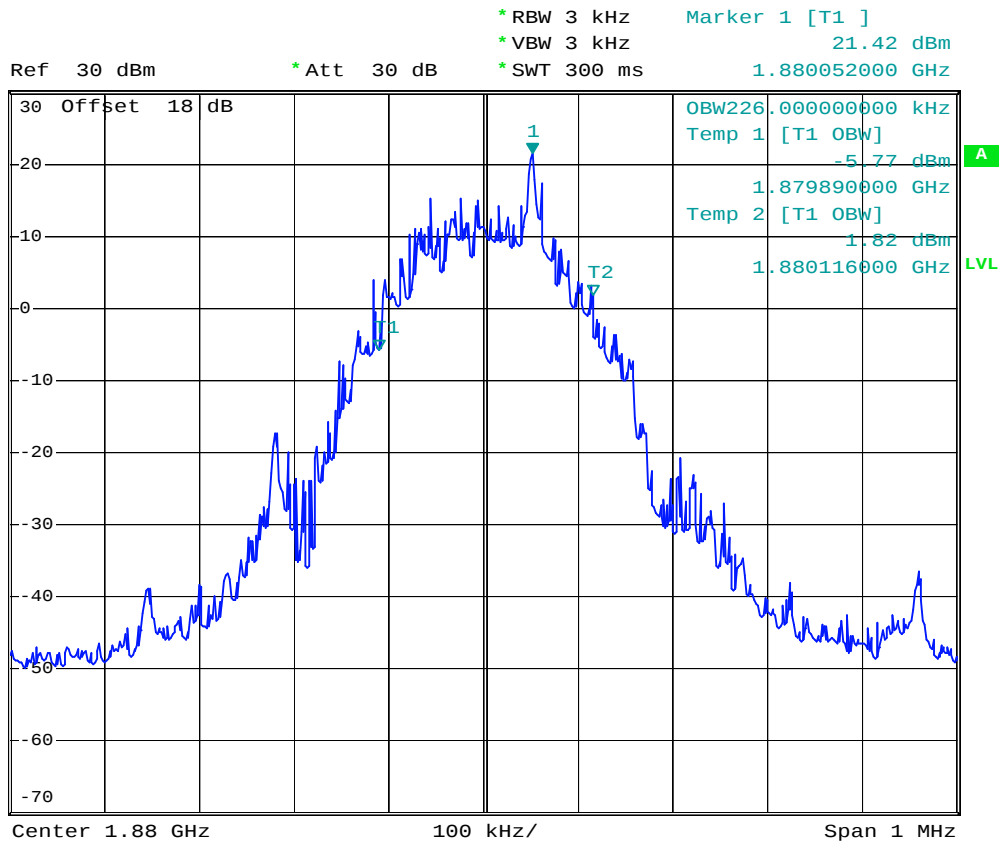
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900(EDGE8) CH661 99% Occupied Bandwidth
- Power State : High



Date: 6.DEC.2006 14:07:26



FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900(EDGE8) CH810 Higher Band Edge
- Power State : High



Date: 6.DEC.2006 14:11:00

4.5 Conducted Emission

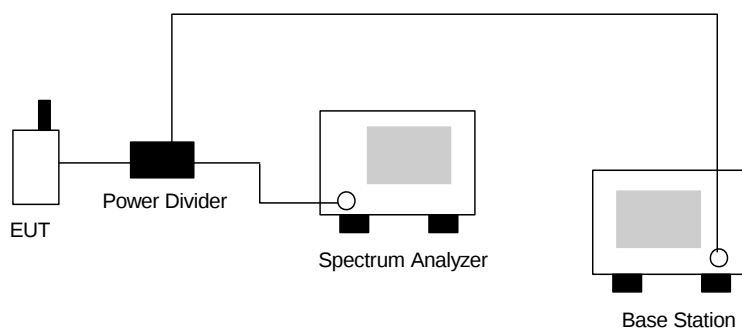
4.5.1 Measurement Instruments

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.

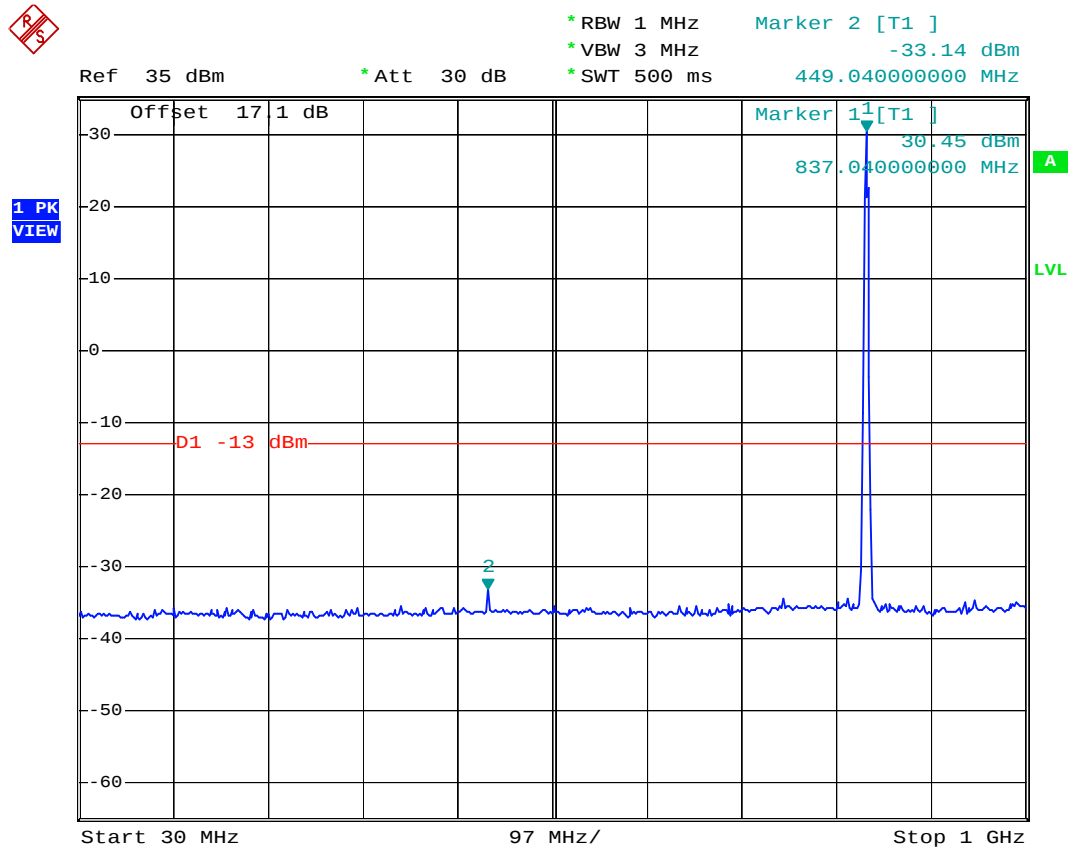
4.5.3 Test Setup Layout





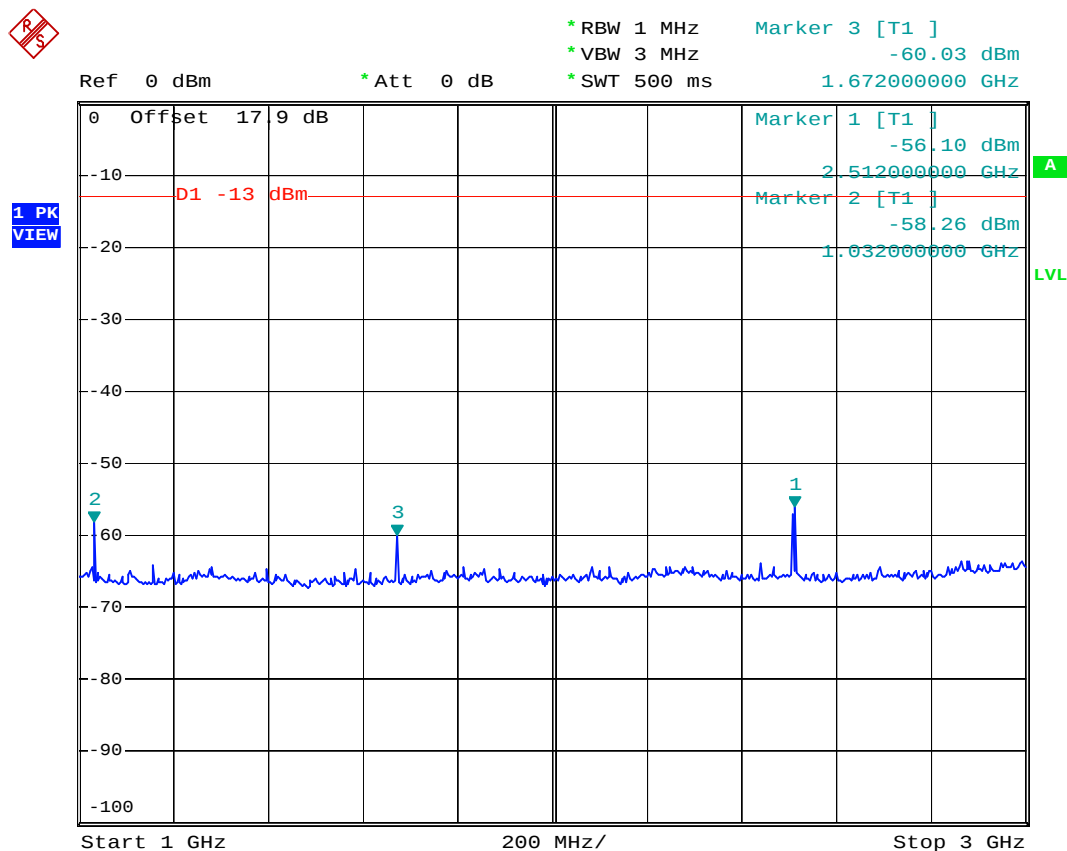
4.5.4 Test Result

- Mode 1
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 30M-1G



Date: 5.DEC.2006 16:37:10

- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 1G-3G



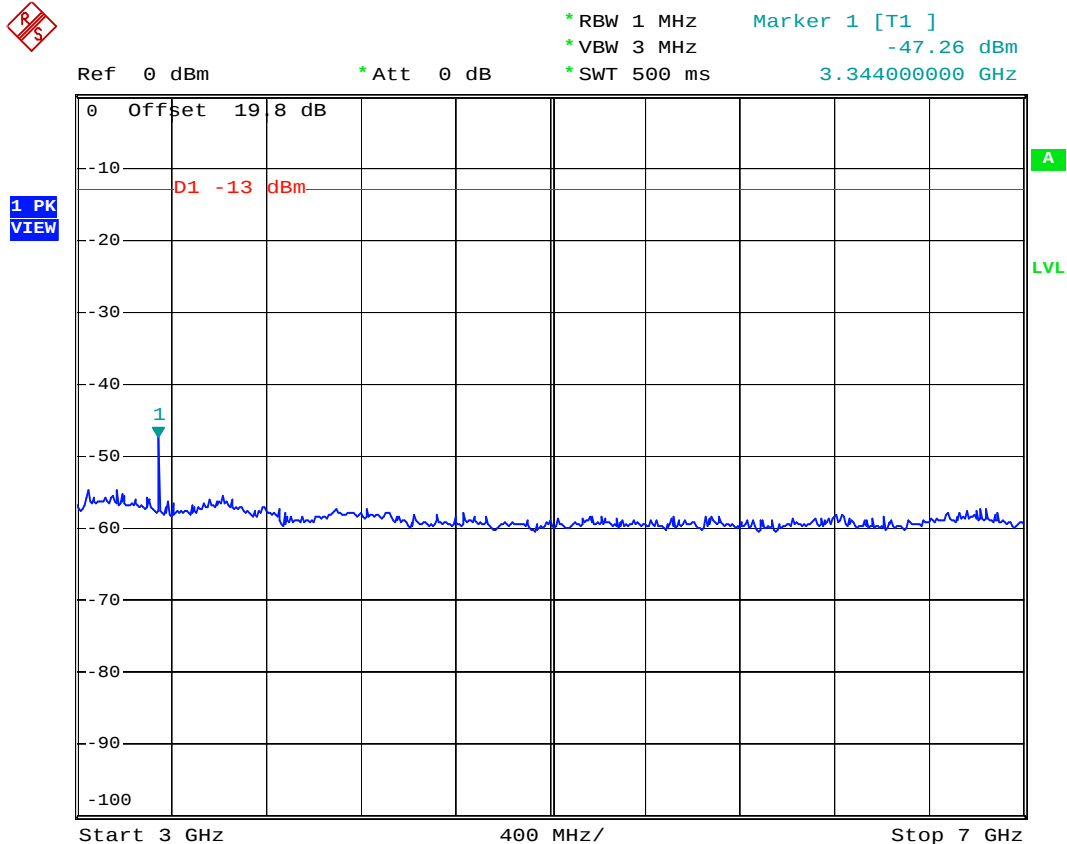
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 3G-7G



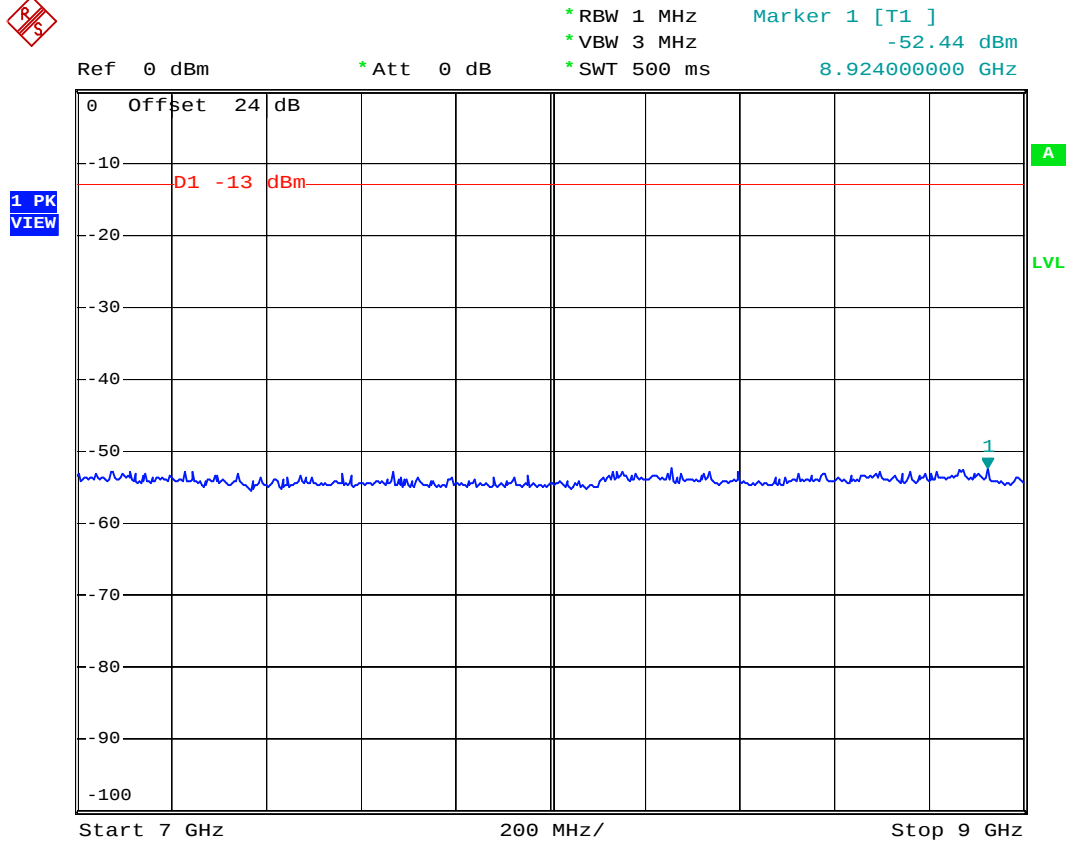
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 7G-9G



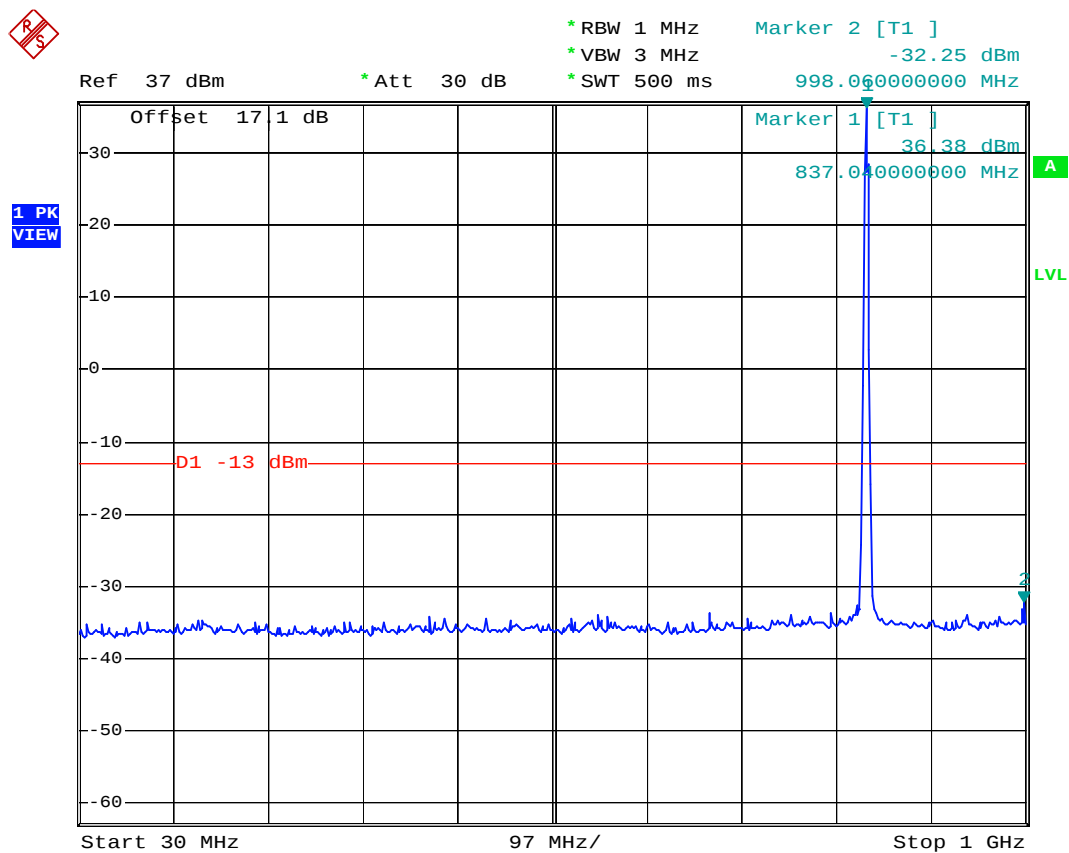
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FCC TEST REPORT

Report No. : FG6N2811

- Mode 2
- Test Mode : GSM850 (EDGE8) CH189
- Frequency Range : 30M-1G



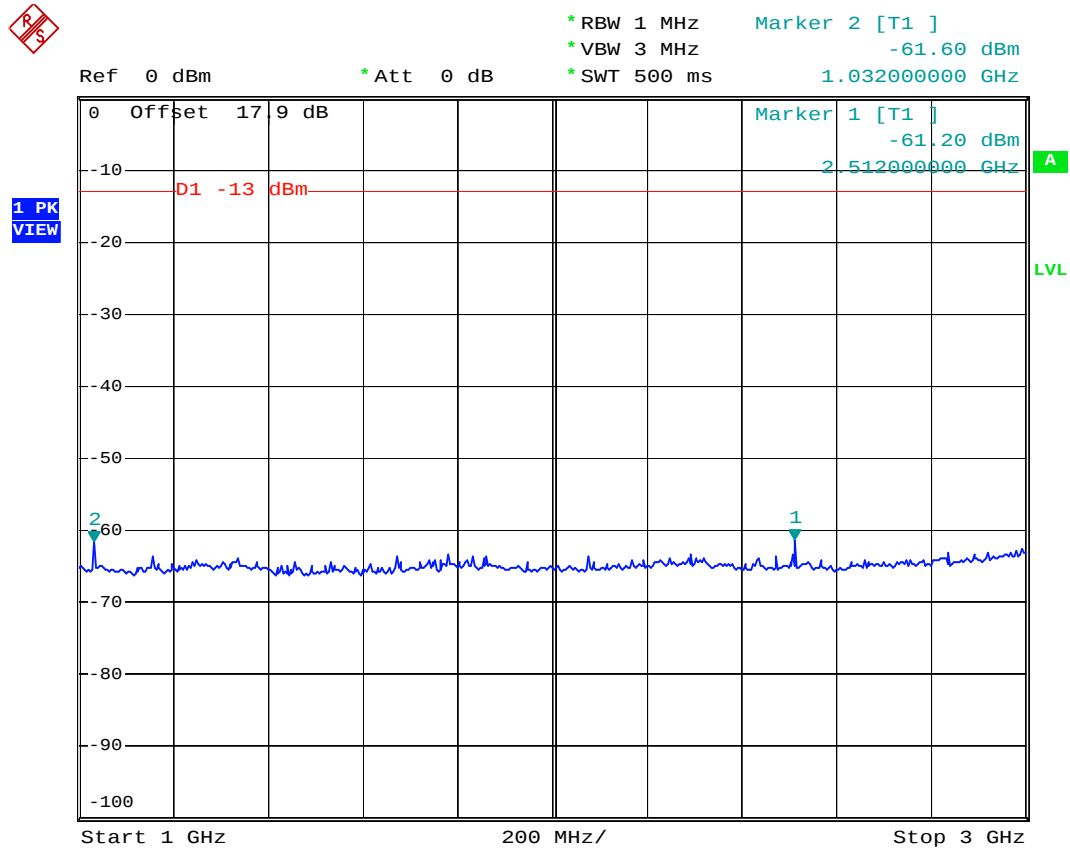
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : GSM850 (EDGE8) CH189
- Frequency Range : 1G-3G



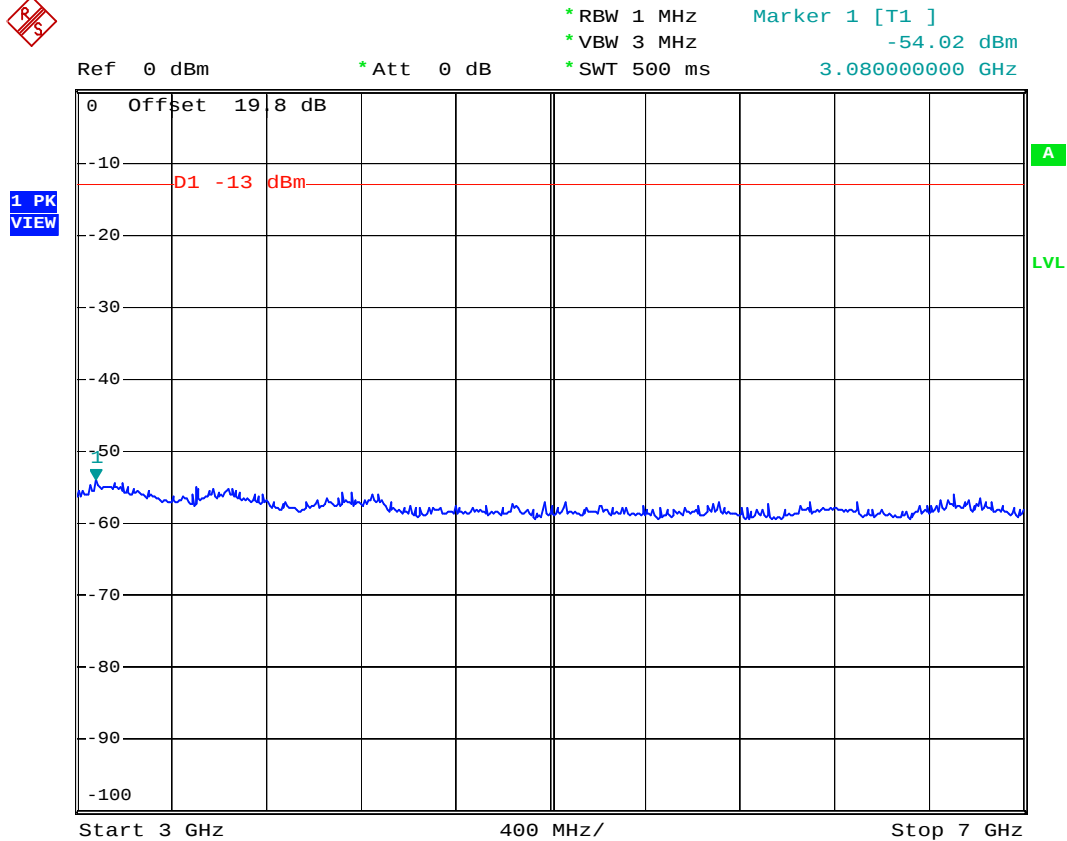
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : GSM850 (EDGE8) CH189
- Frequency Range : 3G-7G



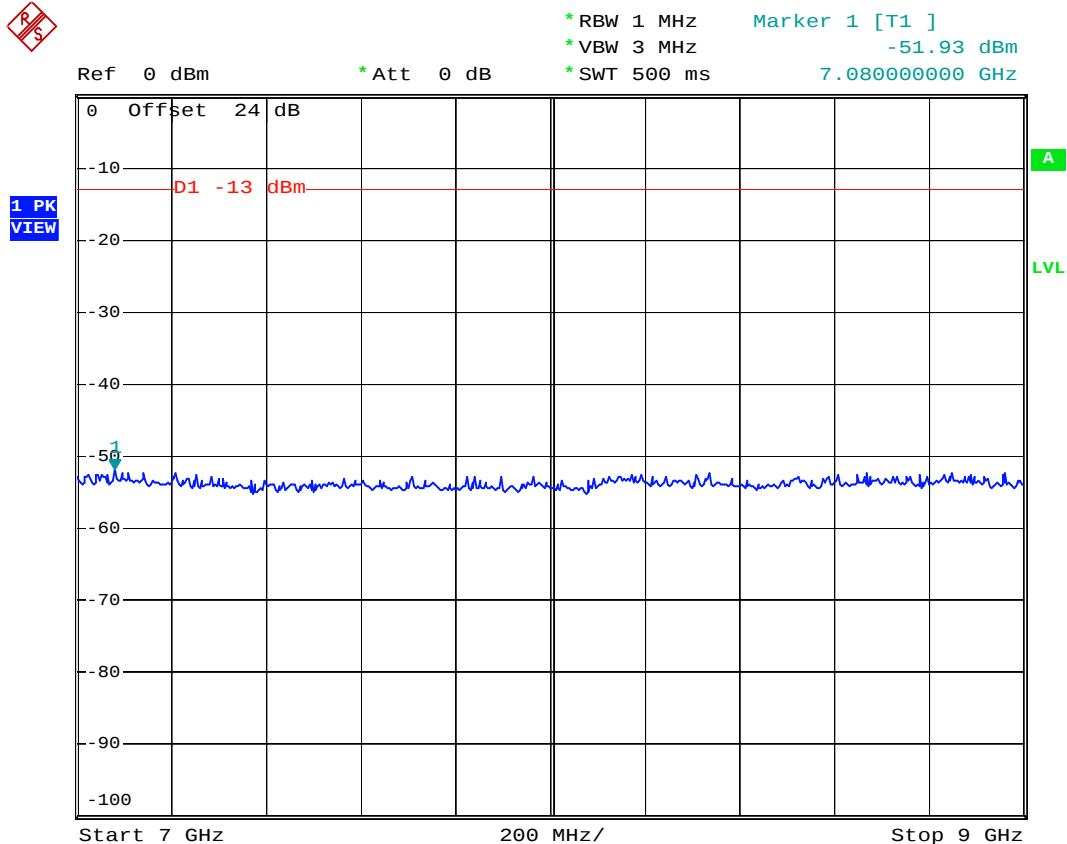
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : GSM850 (EDGE8) CH189
- Frequency Range : 7G-9G



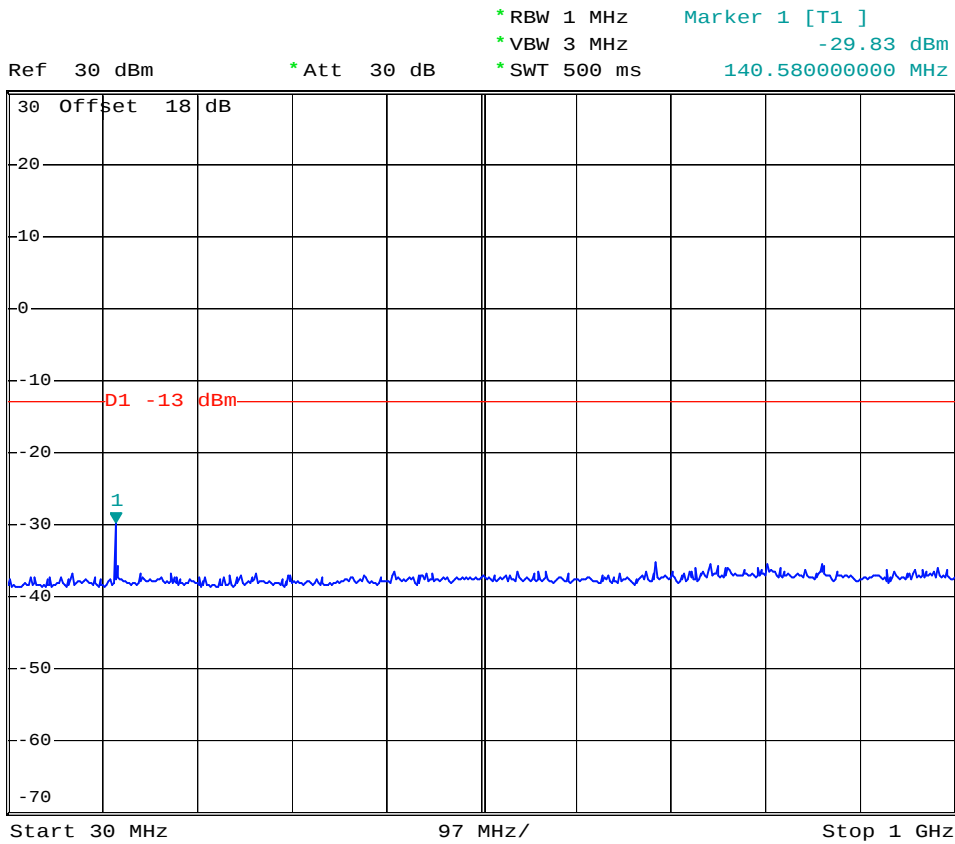
Date: 6.DEC.2006 13:37:38



FCC TEST REPORT

Report No. : FG6N2811

- Mode 3
- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 30M-1G



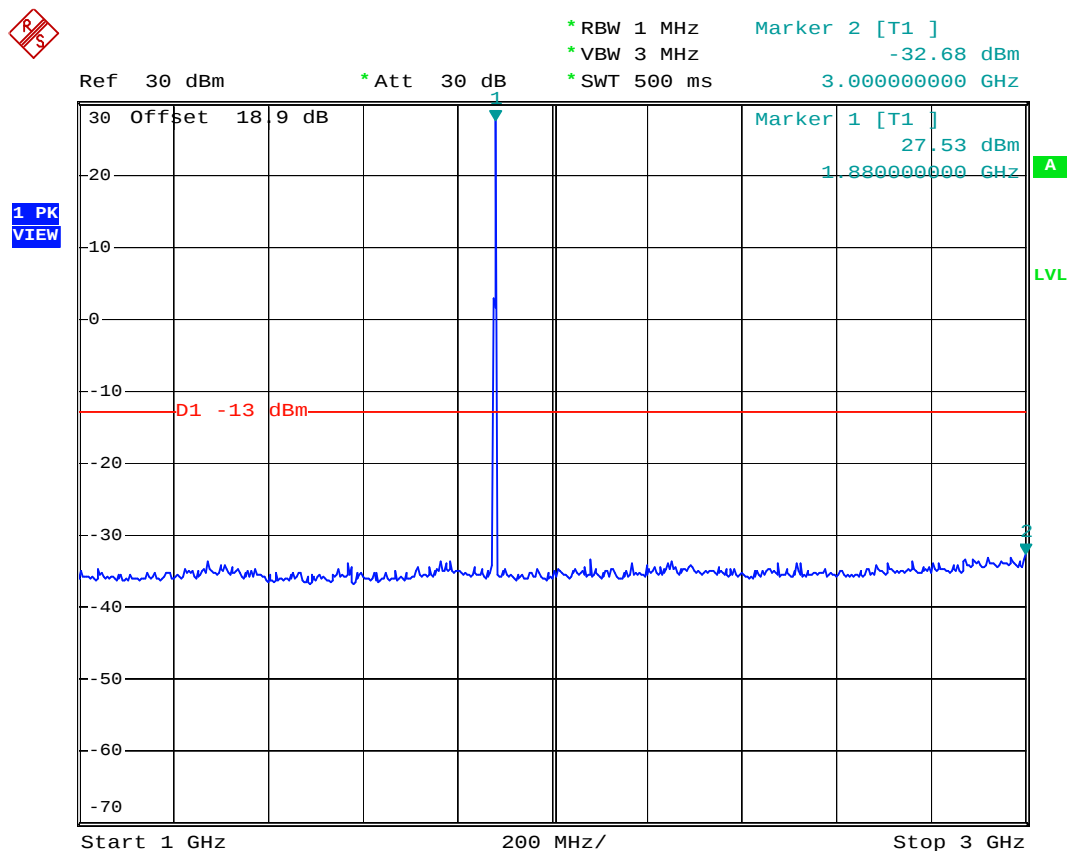
Date: 5.DEC.2006 17:24:13



FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 1G-3G



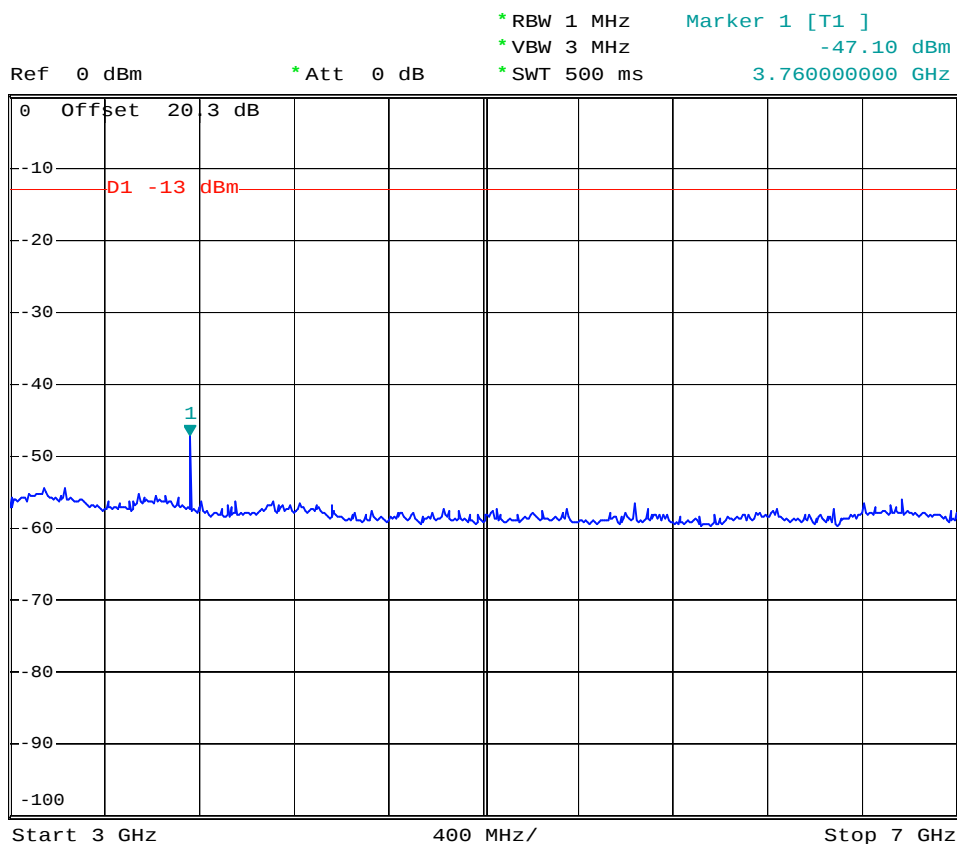
Date: 5.DEC.2006 17:25:43



FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 3G-7G



Date: 5.DEC.2006 17:27:09



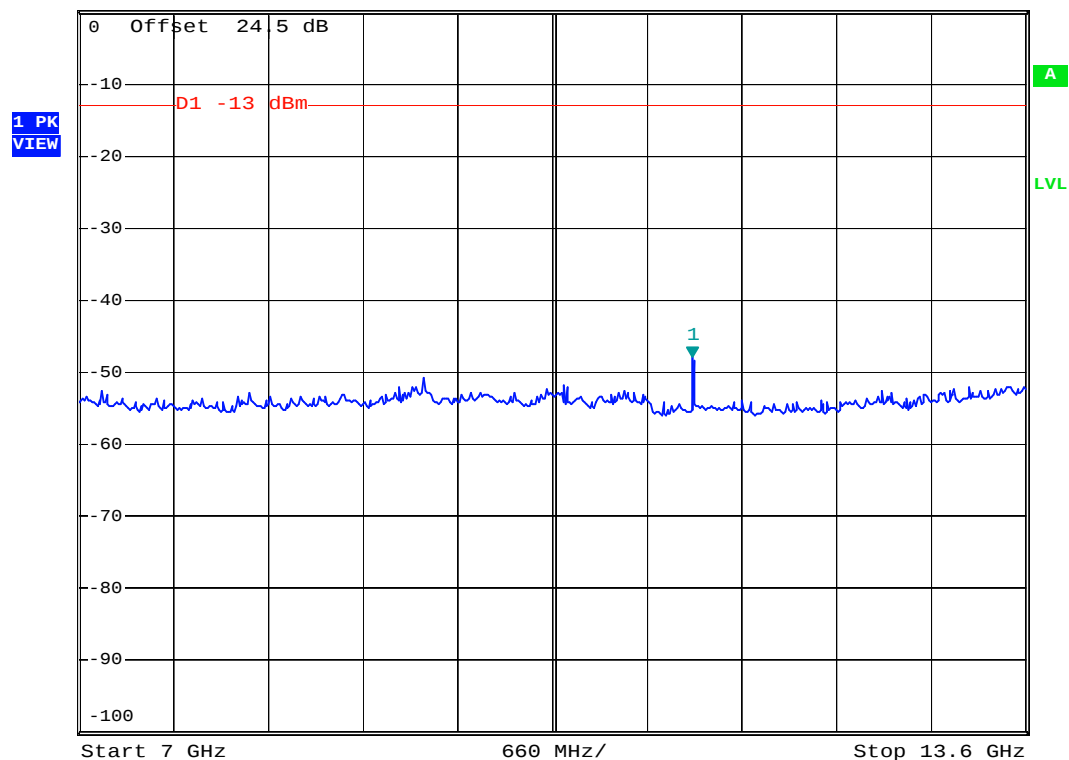
FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 7G-13.6G



Ref 0 dBm * Att 0 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -47.84 dBm
* SWT 500 ms 11.276800000 GHz



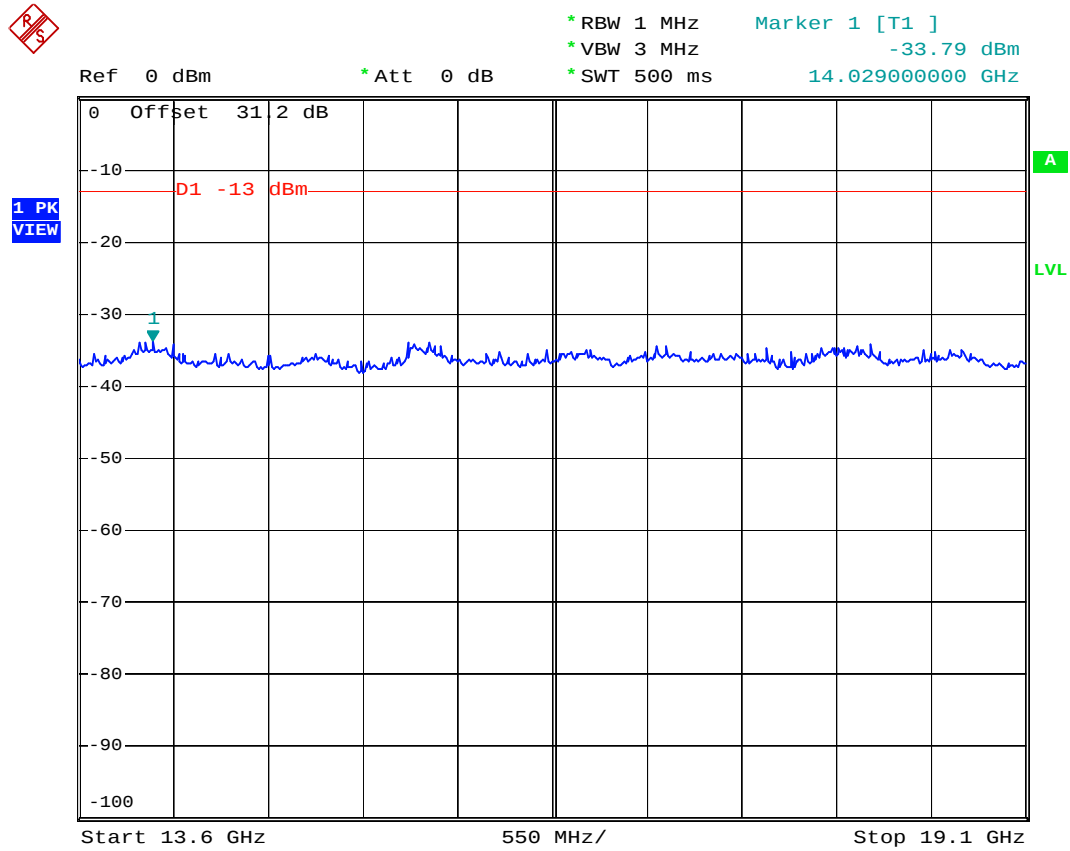
Date: 5.DEC.2006 17:28:27



FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 13.6G-19.1G



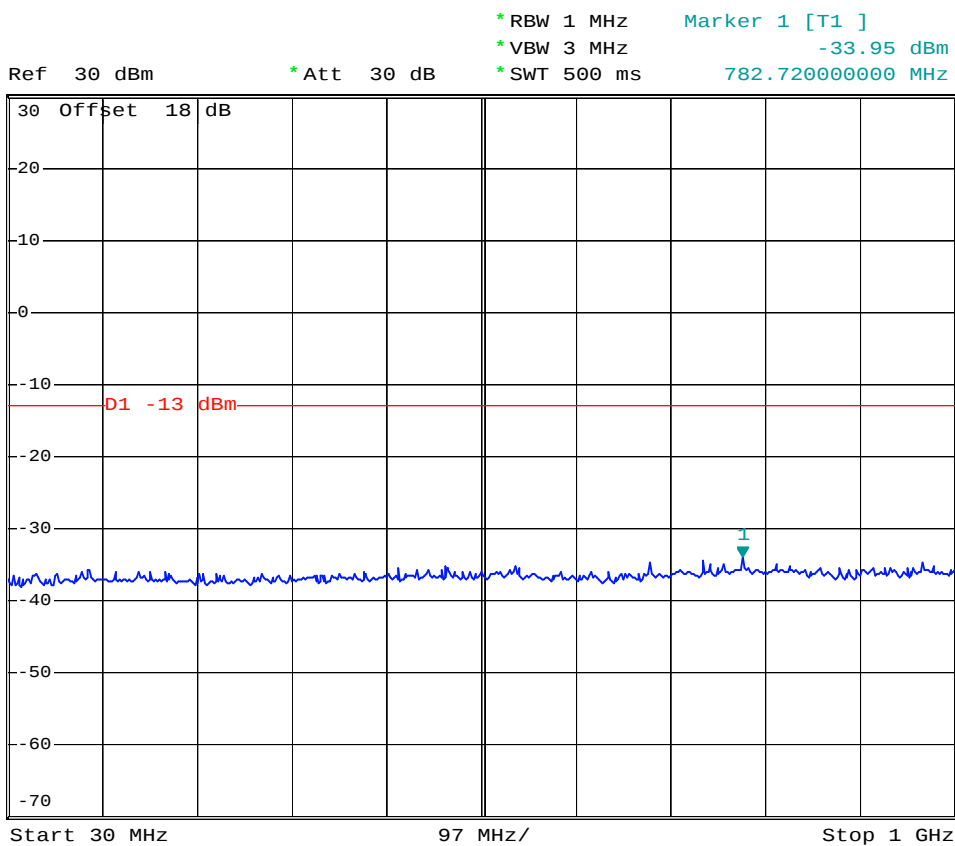
Date: 5.DEC.2006 17:29:26



FCC TEST REPORT

Report No. : FG6N2811

- Mode 4
- Test Mode : PCS1900 (EDGE8) CH661
- Frequency Range : 30M-1G



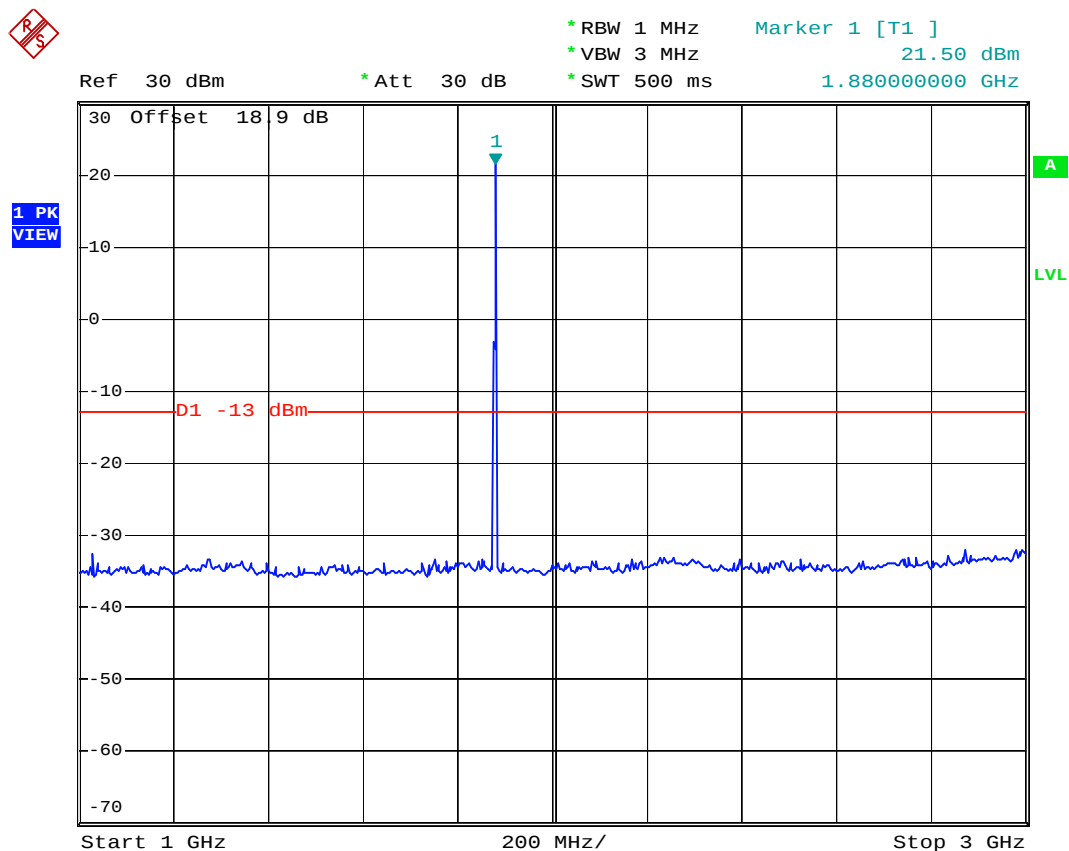
Date: 6.DEC.2006 14:13:04



FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900 (EDGE8) CH661
- Frequency Range : 1G-3G



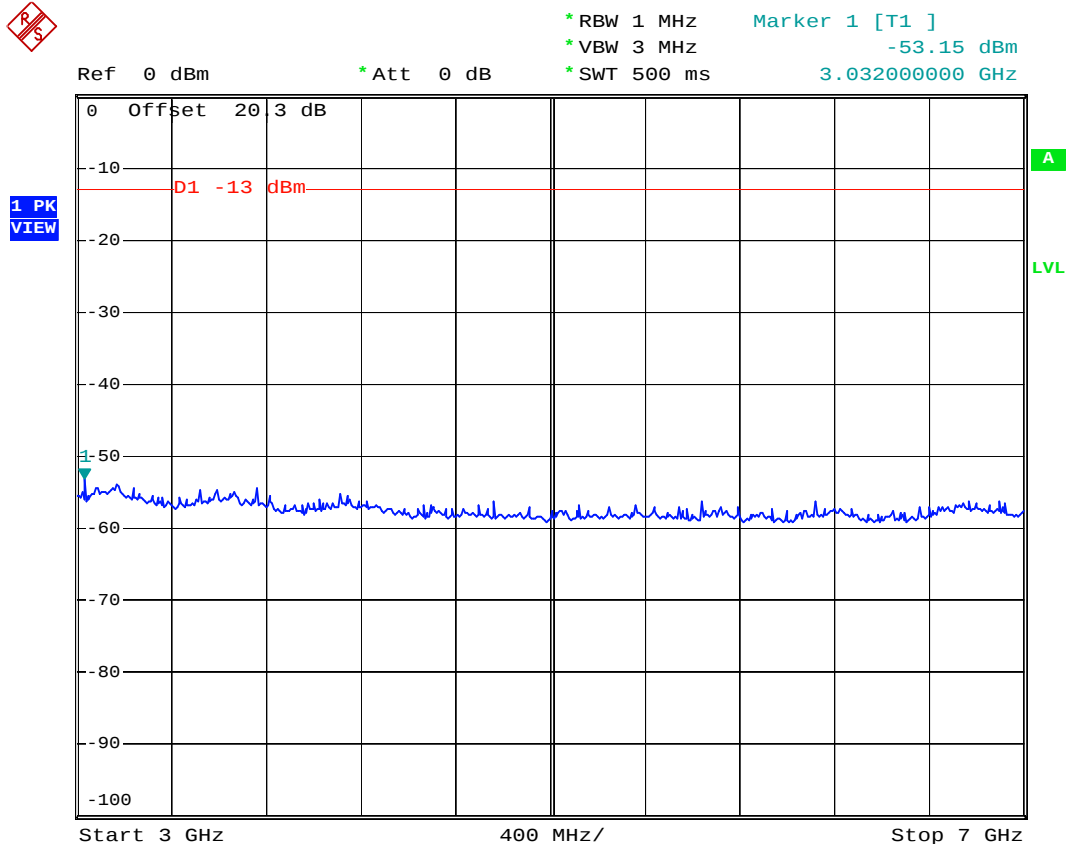
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FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900 (EDGE8) CH661
- Frequency Range : 3G-7G



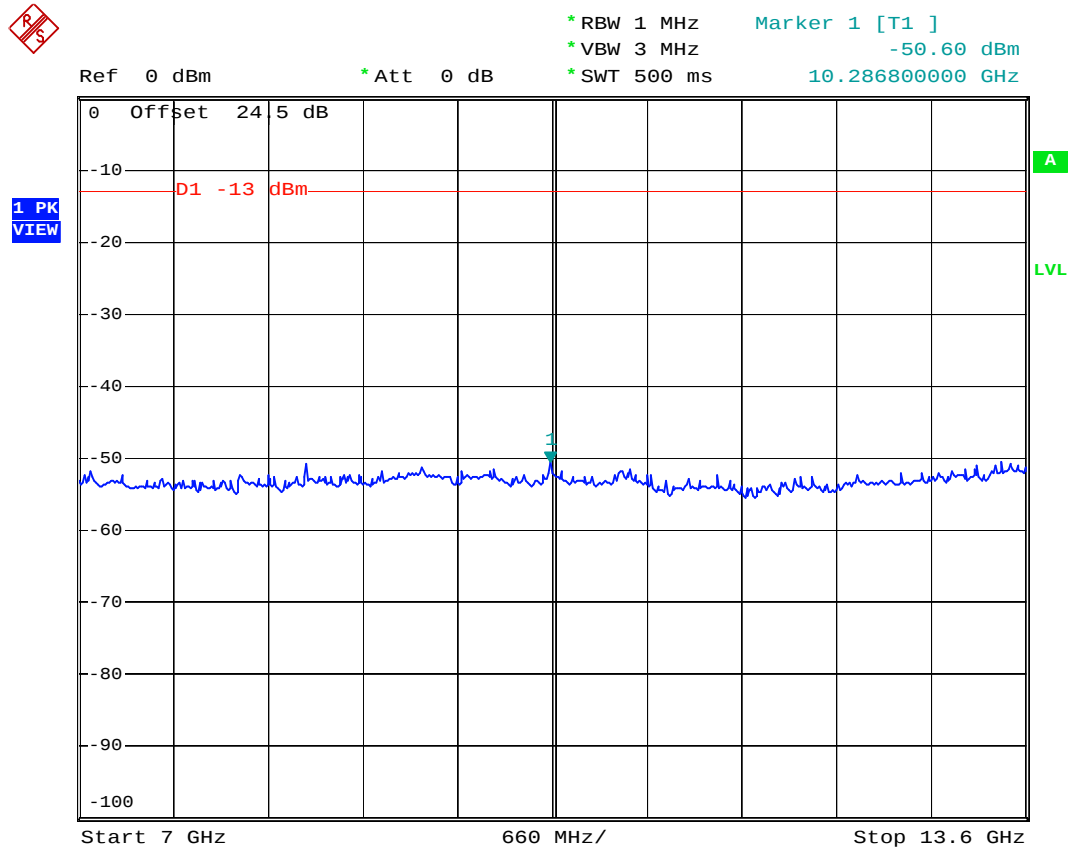
Date: 6.DEC.2006 14:14:47



FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900 (EDGE8) CH661
- Frequency Range : 7G-13.6G



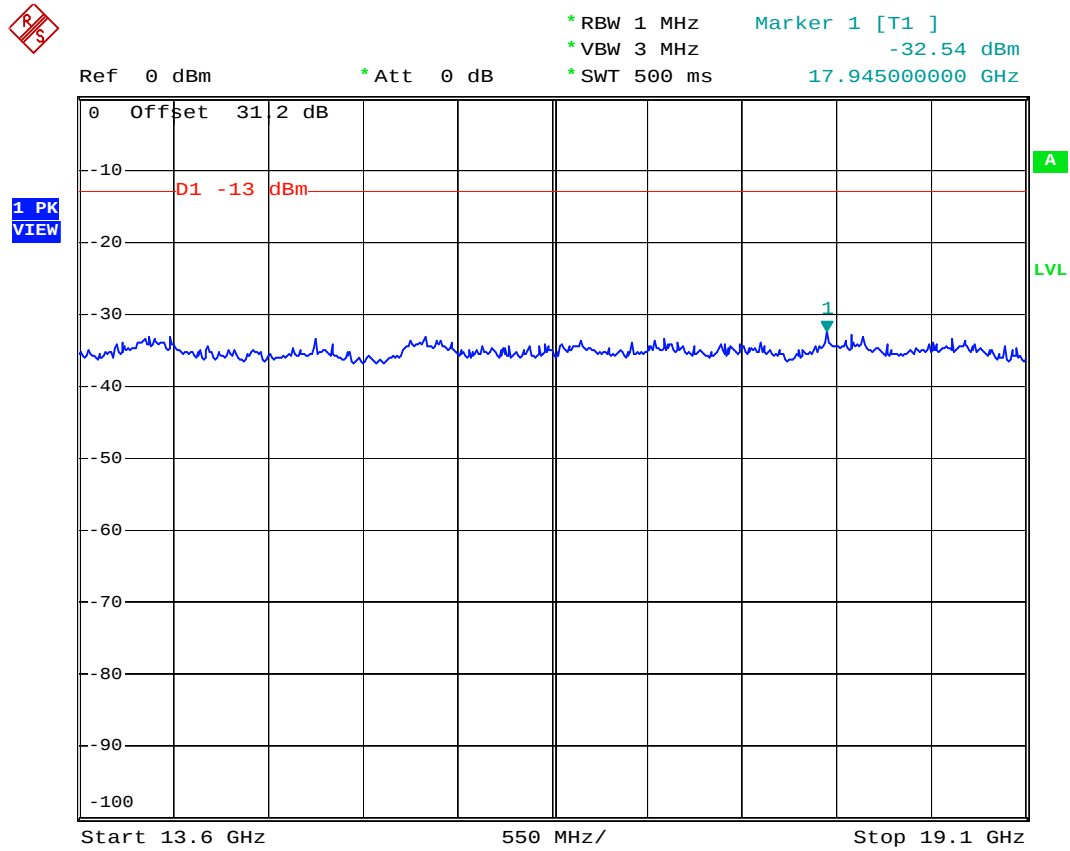
Date: 6.DEC.2006 14:15:28



FCC TEST REPORT

Report No. : FG6N2811

- Test Mode : PCS1900 (EDGE8) CH661
- Frequency Range : 13.6G-19.1G



Date: 6.DEC.2006 14:16:18

4.6 Field Strength of Spurious Radiation

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

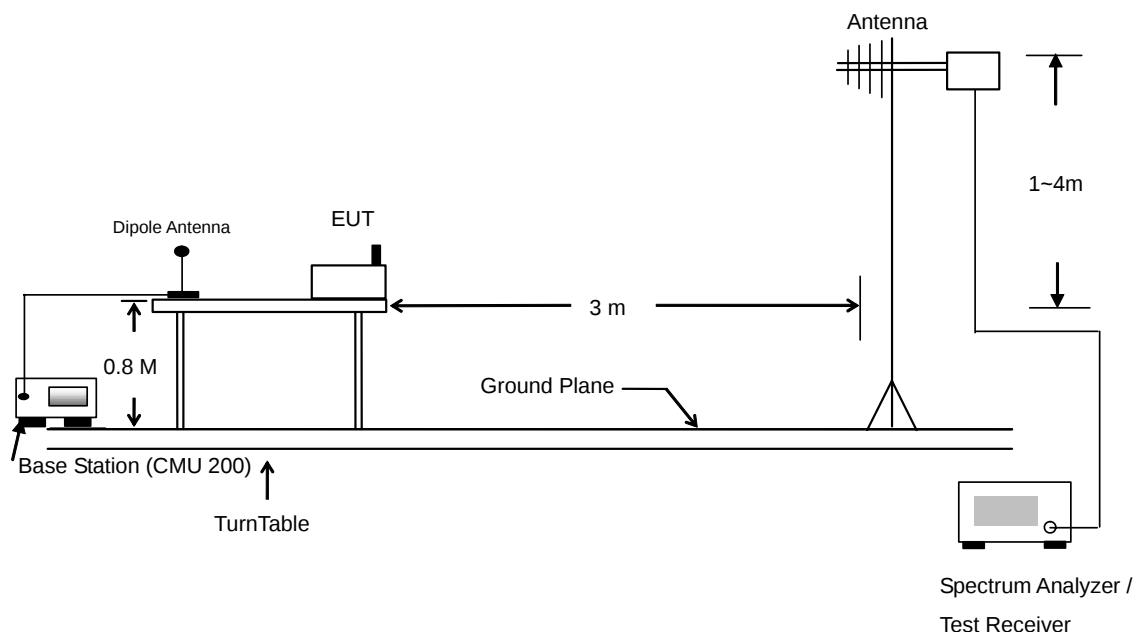
4.6.1 Measurement Instruments

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

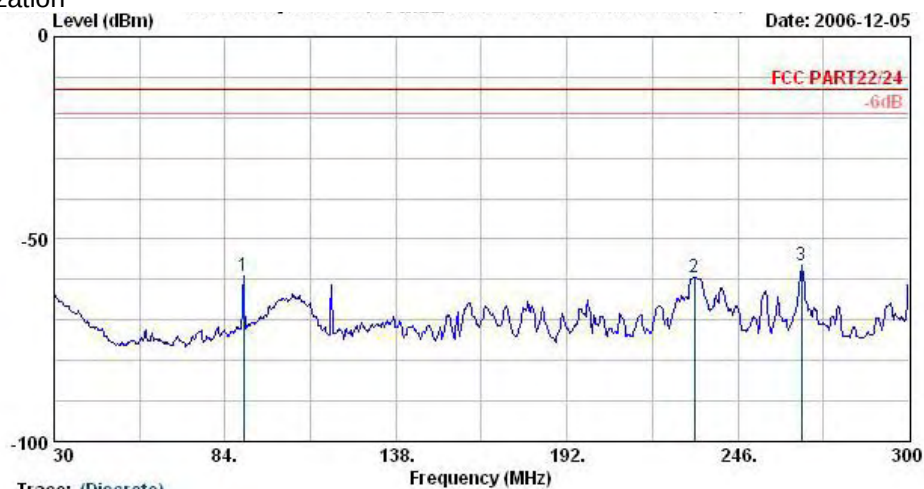
GSM850 (GSM) with WLAN Co-location Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
31.080	-66.090	-13	-53.09	33.780	-65.670	-13	-52.67
265.980	-65.470	-13	-52.47	266.790	-62.030	-13	-49.03
299.730	-61.690	-13	-48.69	299.190	-61.590	-13	-48.59
995.800	-55.130	-13	-42.13	995.800	-57.800	-13	-44.80
1674.000	-54.330	-13	-41.33	1674.000	-58.280	-13	-45.28
2508.000	-35.110	-13	-22.11	2508.000	-36.830	-13	-23.83



4.6.5 Test Data

4.6.5.1 Mode 1

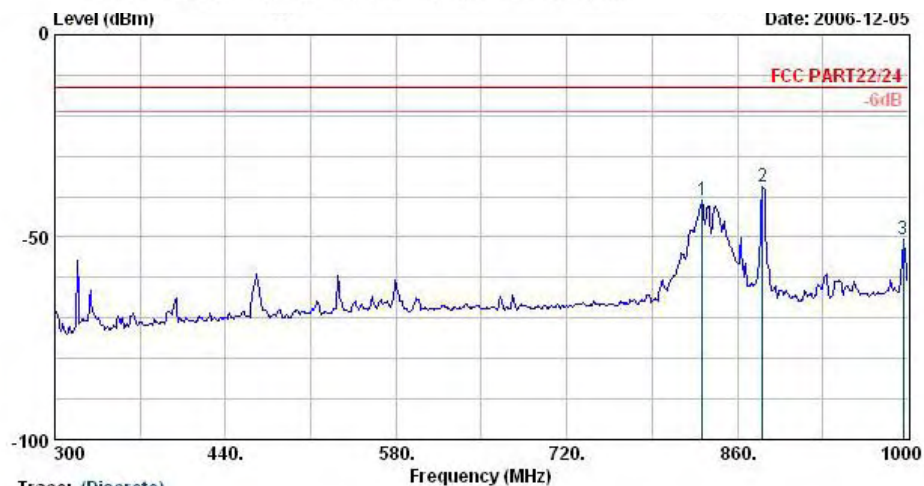
Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-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

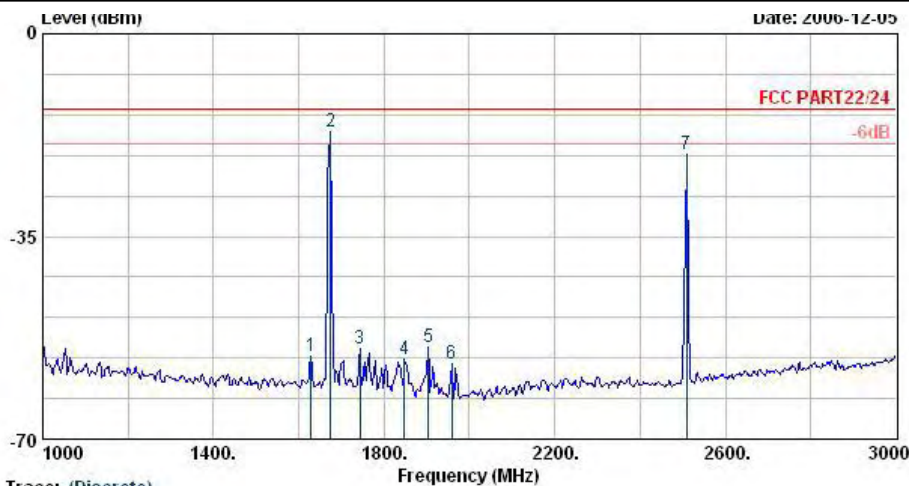


Trace: (Discrete)

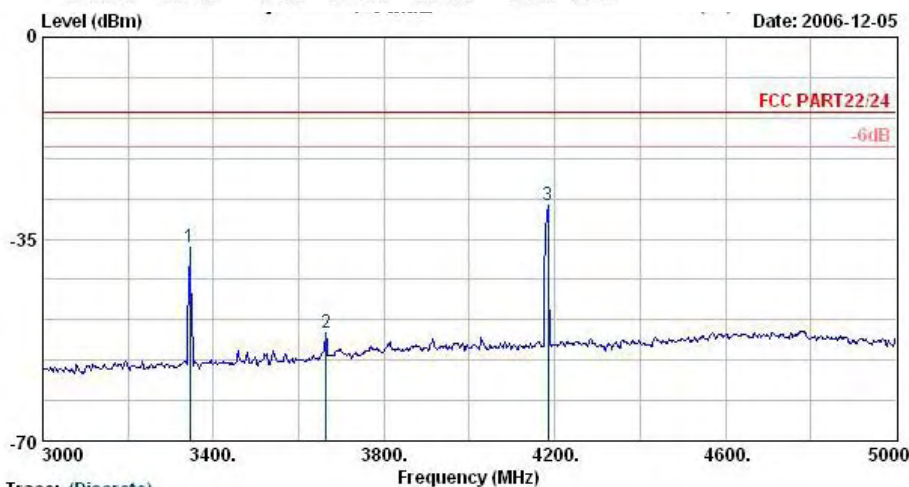
Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	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

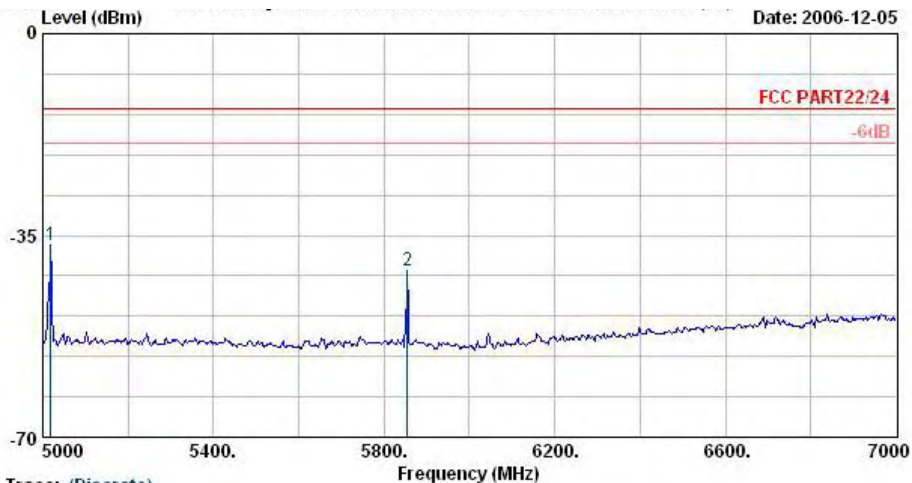
Remark: 1. #1: MS TCH Signal
2. #2: BS TCH Signal



	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



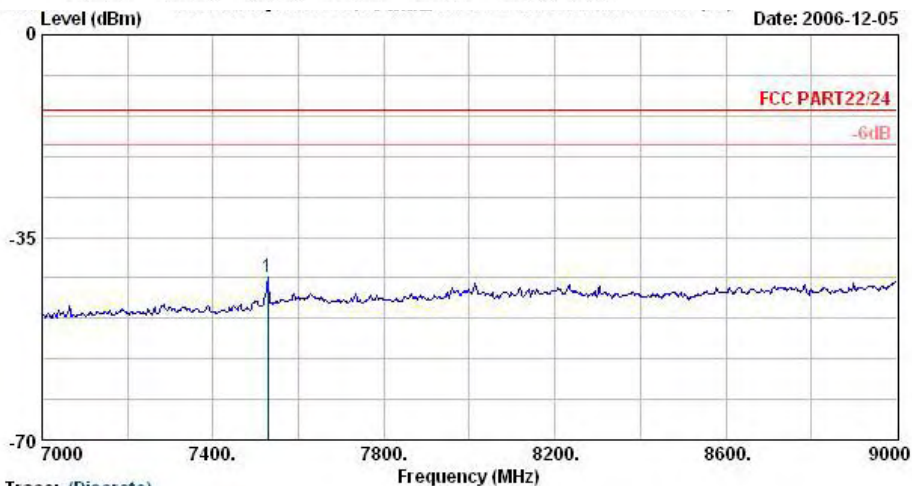
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dBm	dB	dBm	dBm	dB	
1 @	3344.0	-36.56	-23.56	-13.00	-41.97	5.41	Peak
2	3664.0	-51.28	-38.28	-13.00	-58.20	6.92	Peak
3 @	4184.0	-29.16	-16.16	-13.00	-38.94	9.79	Peak



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



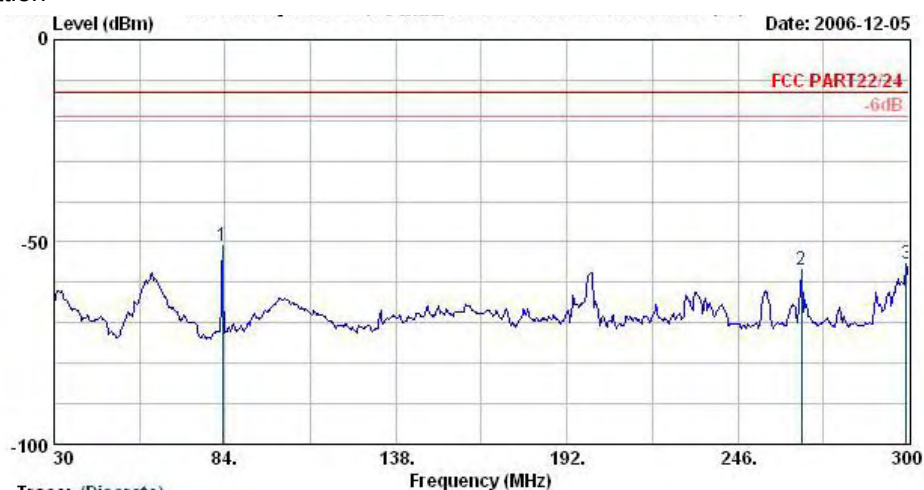
Trace: (Discrete)

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



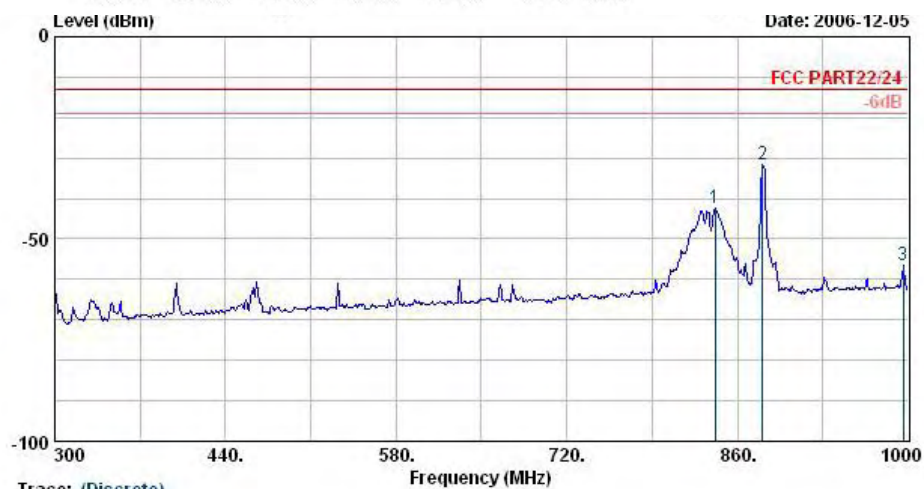
Vertical Polarization



Trace: (Discrete)

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

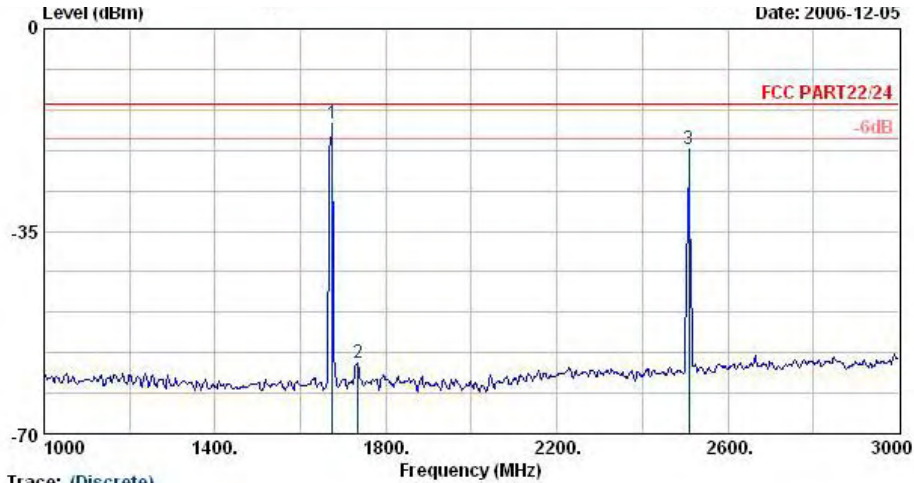
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	841.8	-42.28			-43.68	1.40	Peak
2 @	880.3	-31.62			-33.33	1.71	Peak
3	995.8	-56.58	-43.58	-13.00	-59.21	2.63	Peak

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



FCC TEST REPORT

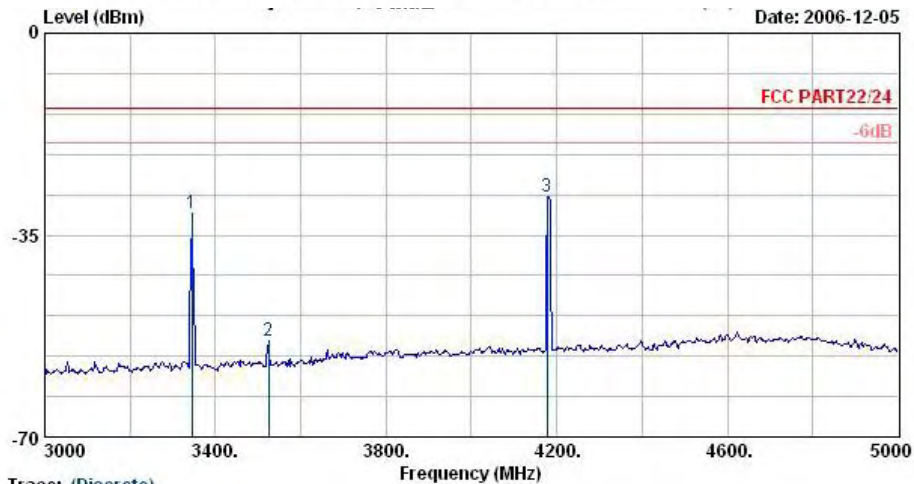
Report No. : FG6N2811



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

	Freq	Level	Over	Limit	Read	
	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)

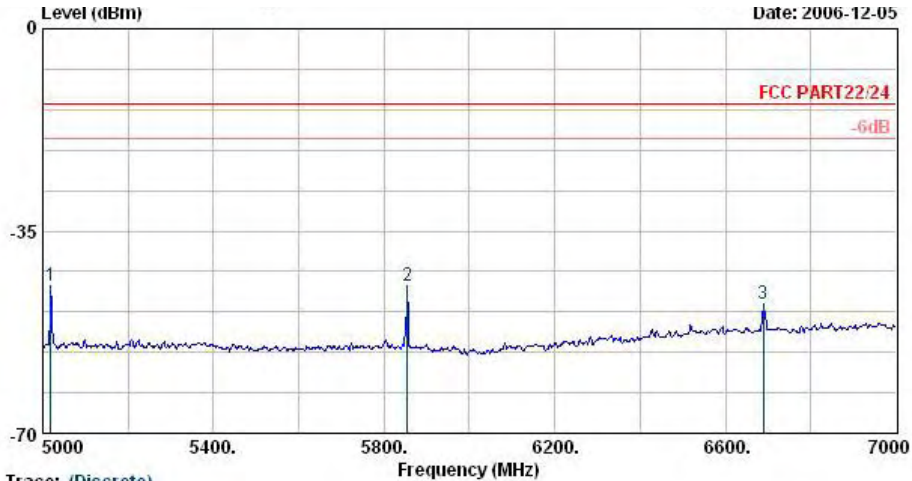
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	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



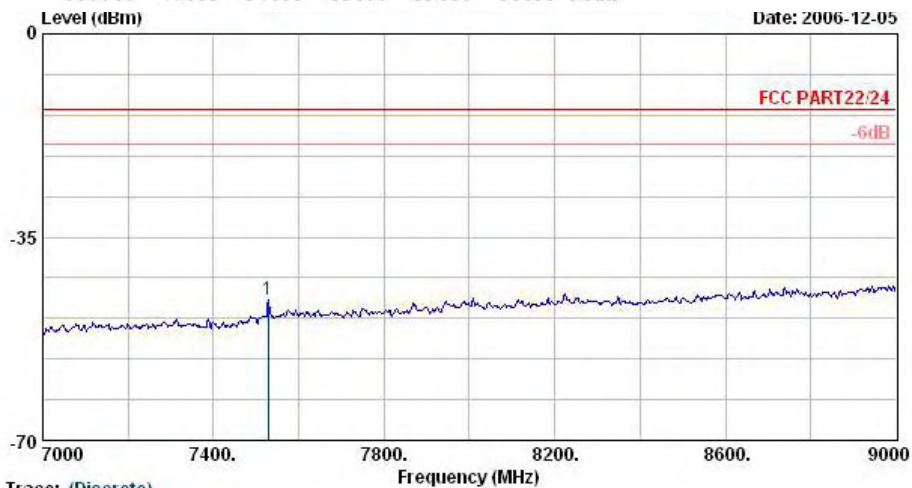
FCC TEST REPORT

Report No. : FG6N2811



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

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
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+Adaptot+Eaophone
Plane : E1

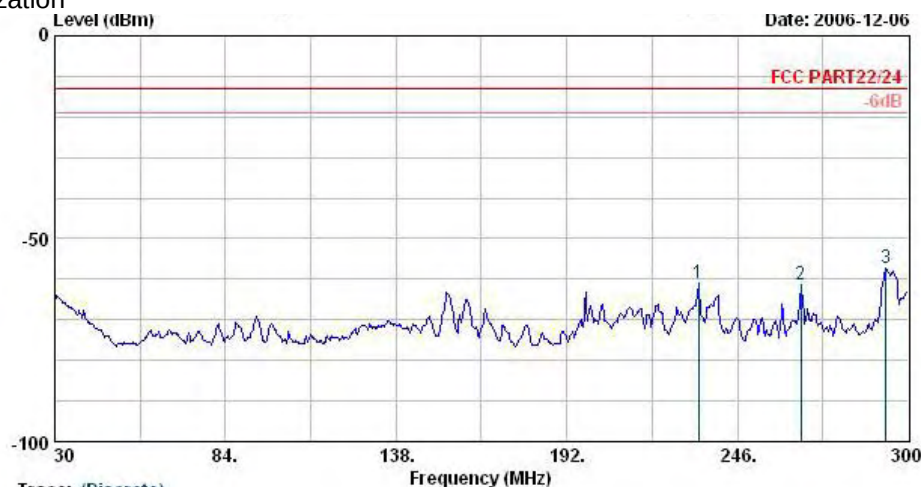
	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	7528.0	-45.82	-32.82	-13.00	-59.18	13.37	Peak

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



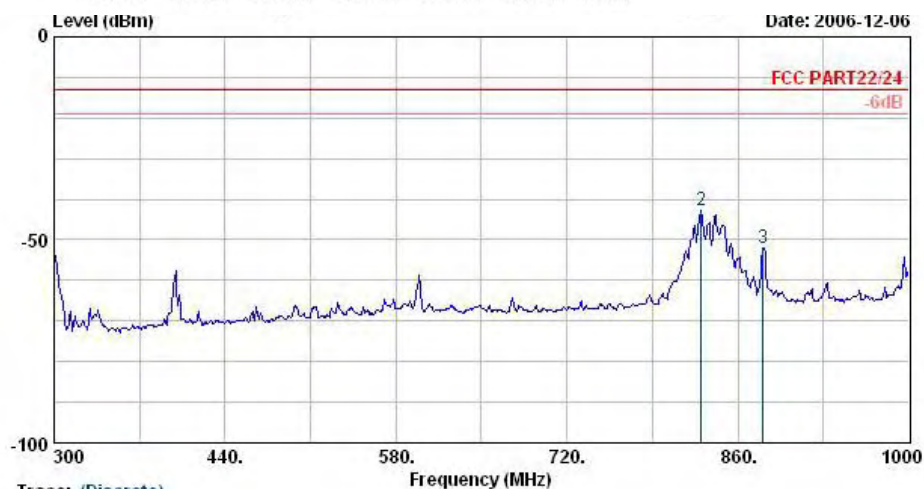
4.6.5.2 Mode 2

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

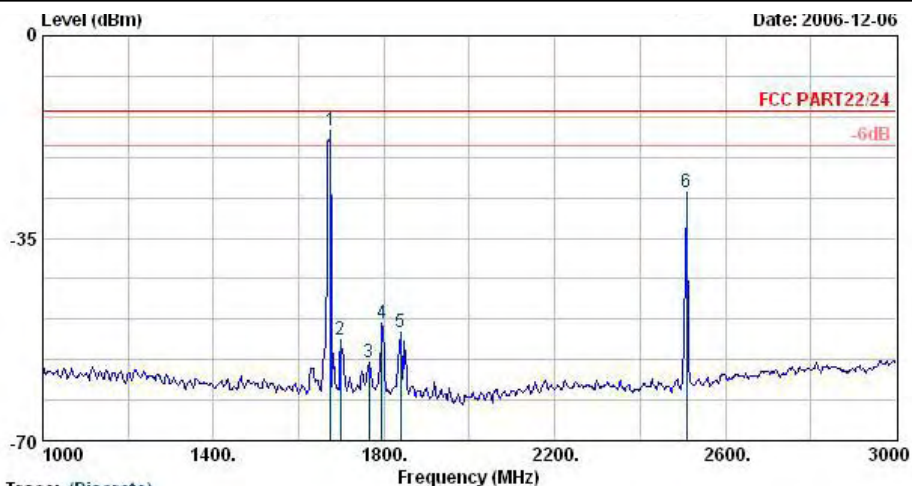
	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	233.6	-60.96	-47.96	-13.00	-48.74	-12.22 Peak
2	266.0	-61.18	-48.18	-13.00	-50.07	-11.12 Peak
3	293.0	-57.26	-44.26	-13.00	-47.08	-10.18 Peak



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

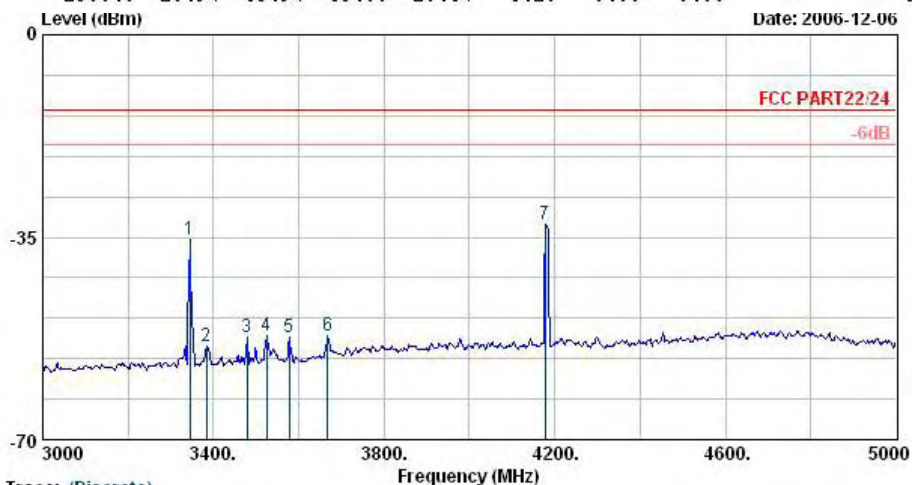
Remark: 1. #2: MS TCH Signal
2. #3: BS TCH Signal



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	Pos	Pos	
									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)

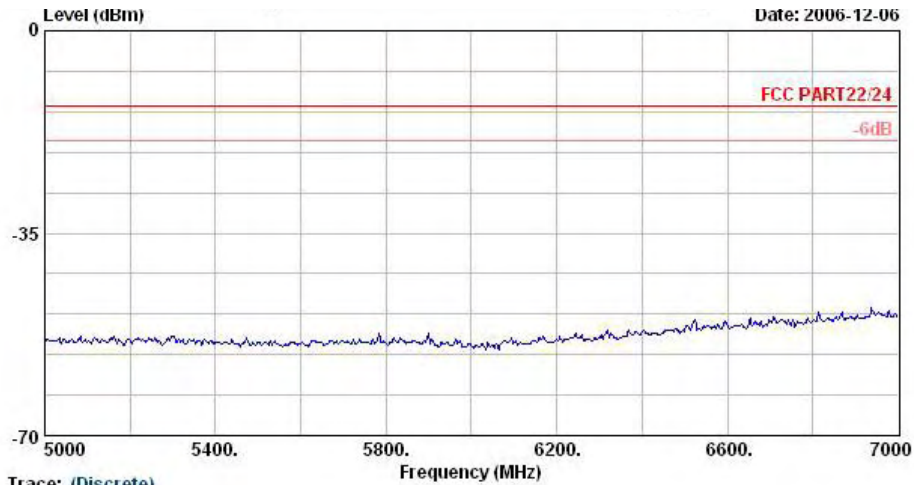
Site : 03CHD6-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	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

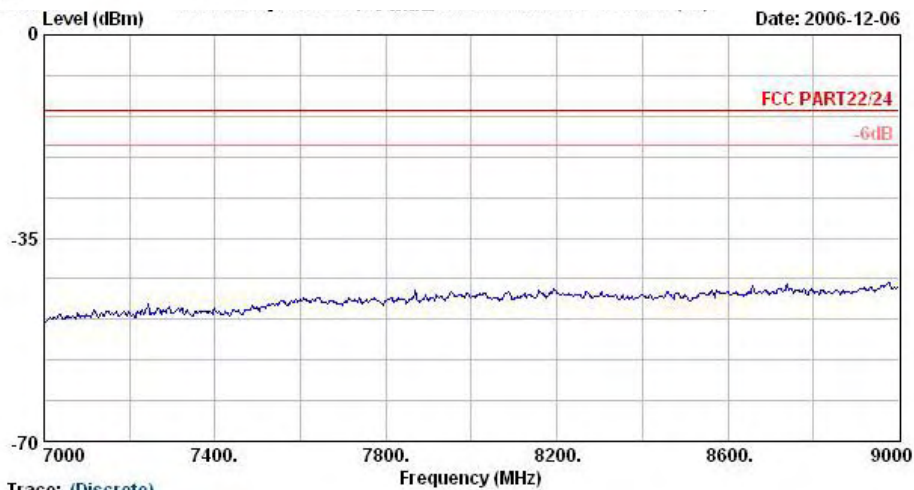


FCC TEST REPORT

Report No. : FG6N2811



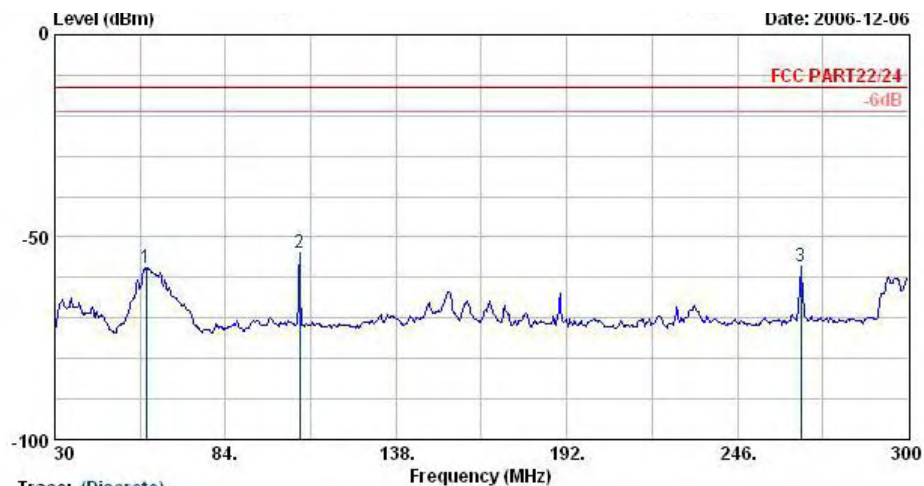
Trace: (Discrete)
Site : 03CHD6-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1



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

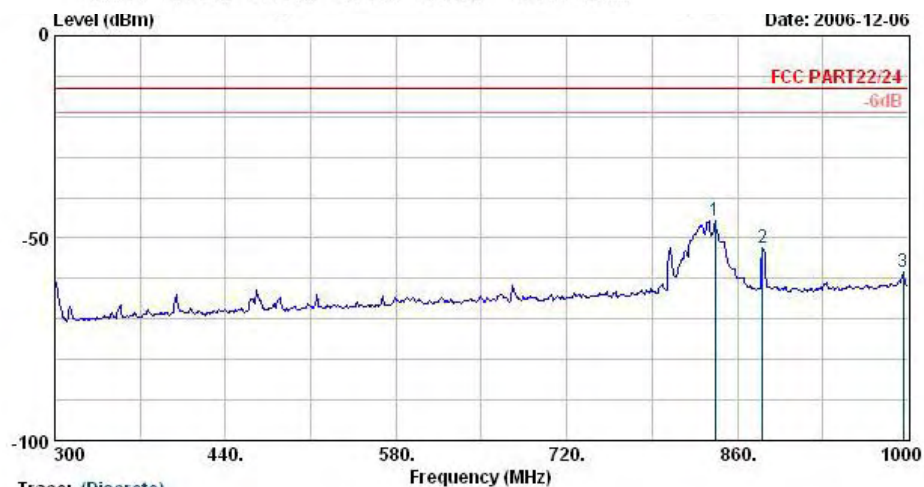


Vertical Polarization



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

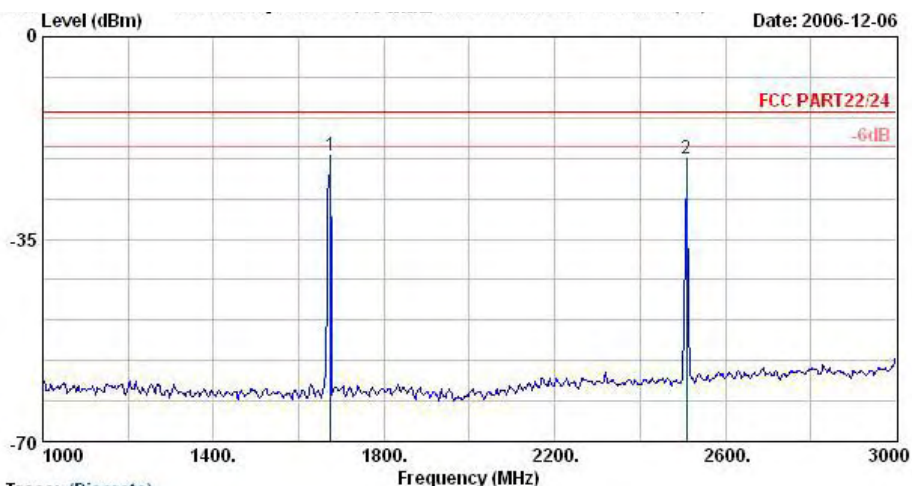
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	58.9	-57.45	-44.45	-13.00	-43.88	-13.56	Peak
2	107.5	-53.94	-40.94	-13.00	-46.18	-7.76	Peak
3	266.0	-57.13	-44.13	-13.00	-49.95	-7.18	Peak



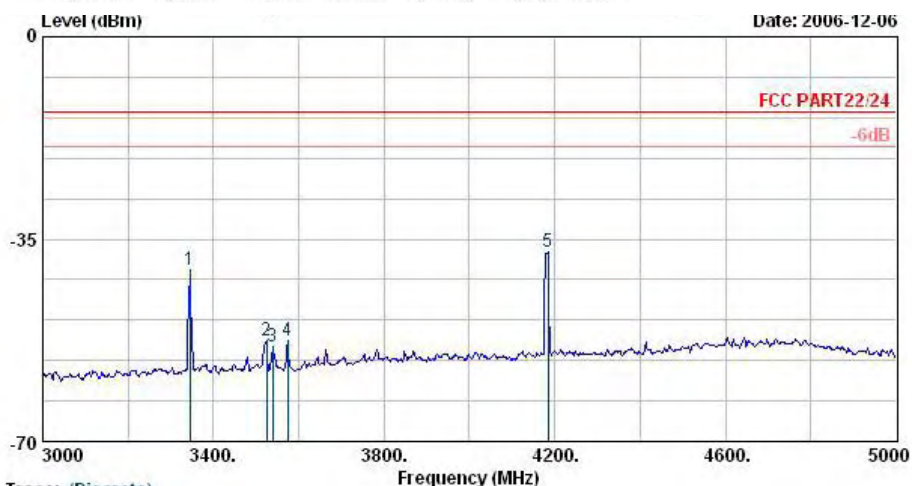
Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch189+Adaptor+Earphone
Plane : E1

	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

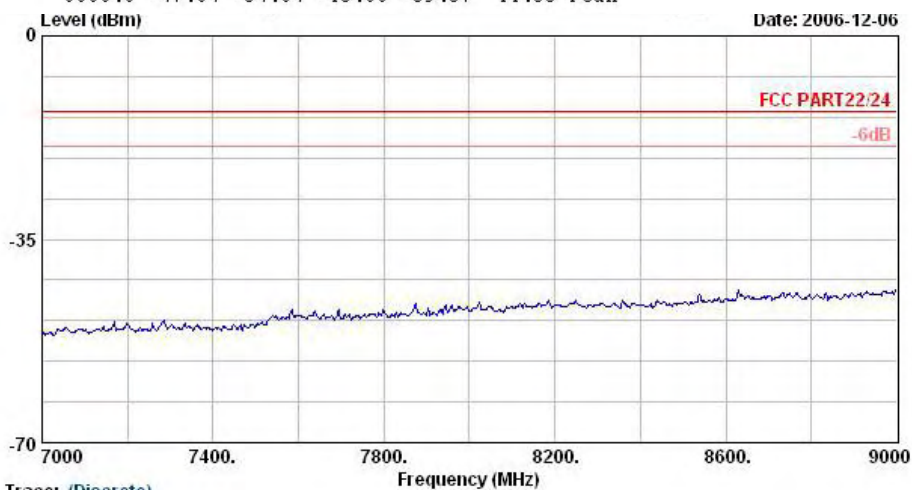
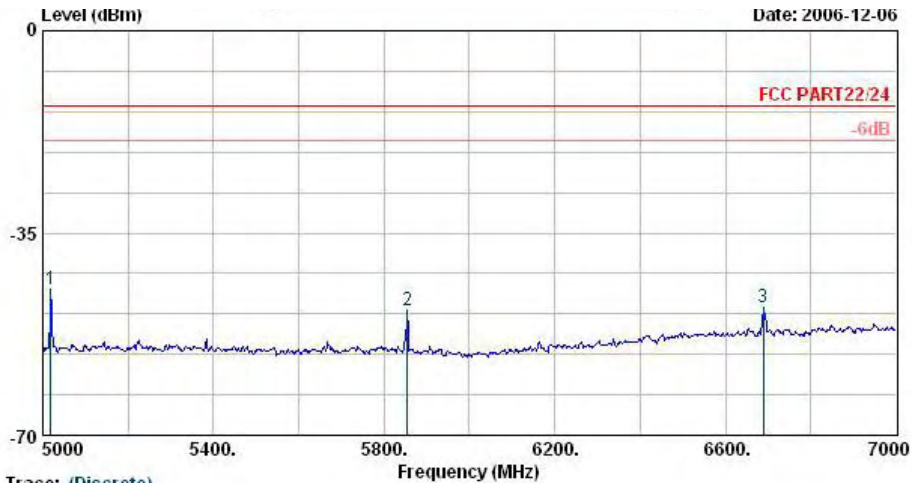
Remark: 1. #1: MS TCH Signal
2. #2: BS TCH Signal



	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
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



	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
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

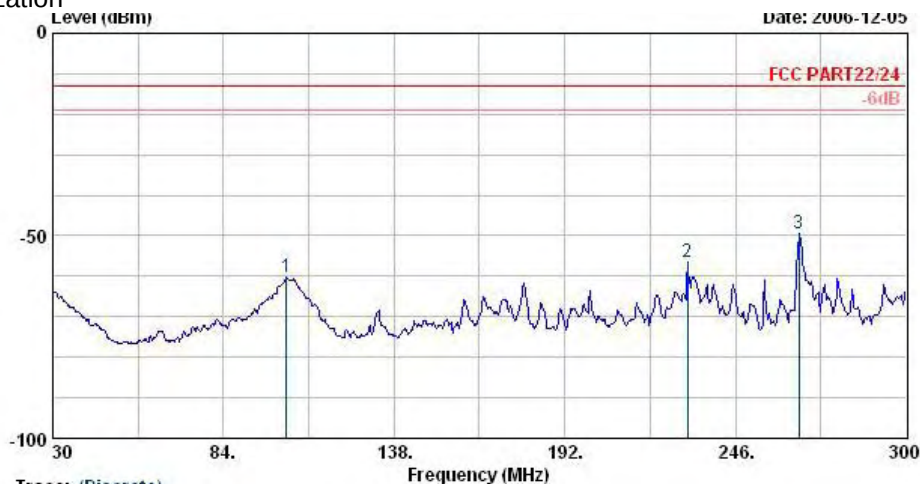


Remark : There is no more obvious emission except the listings above.



4.6.5.3 Mode 3

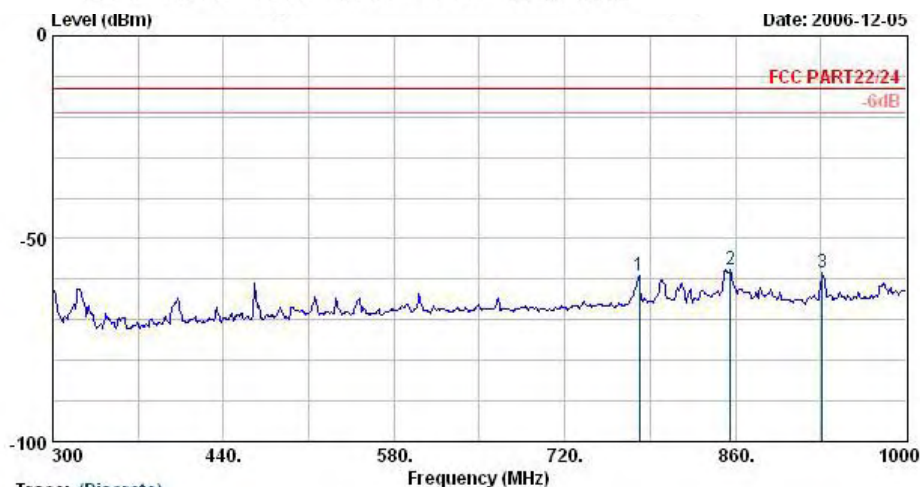
Horizontal Polarization



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)

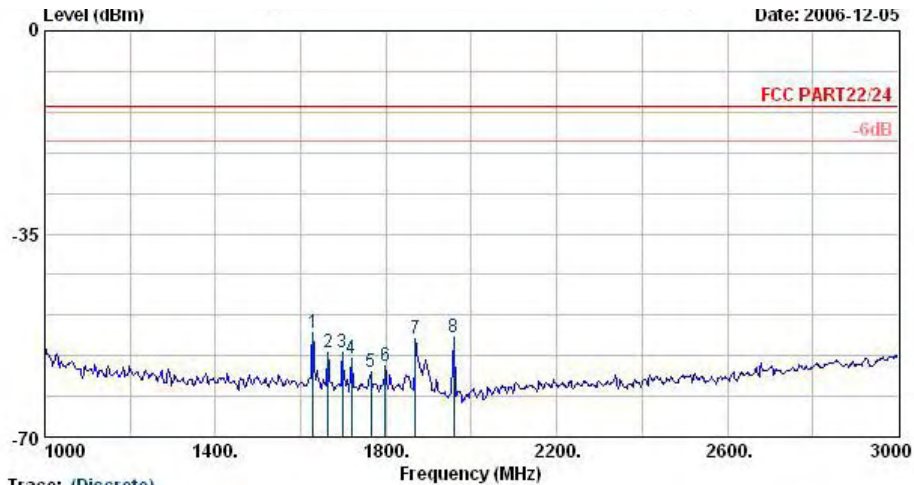
Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	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



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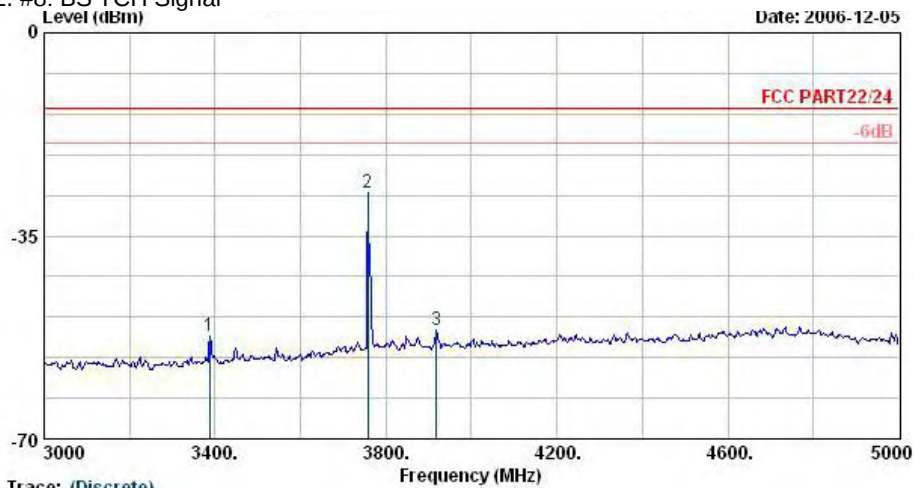
Report No. : FG6N2811



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

	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



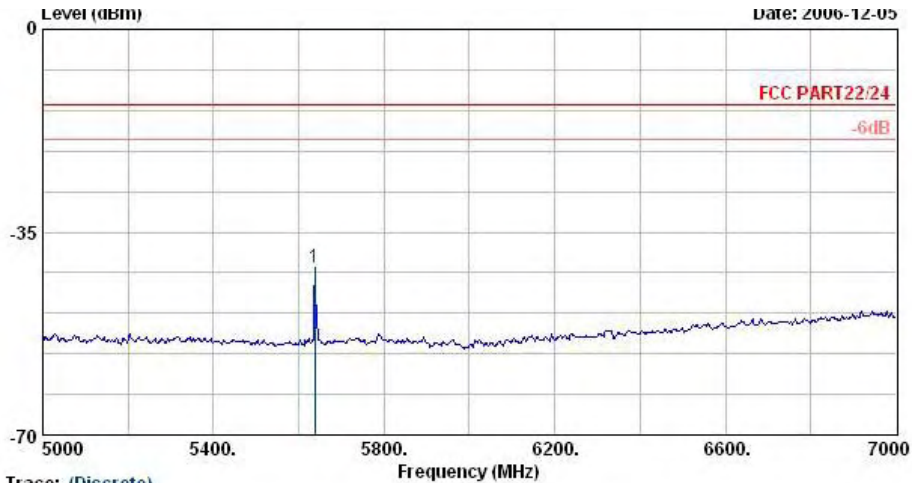
Site : 08CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	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

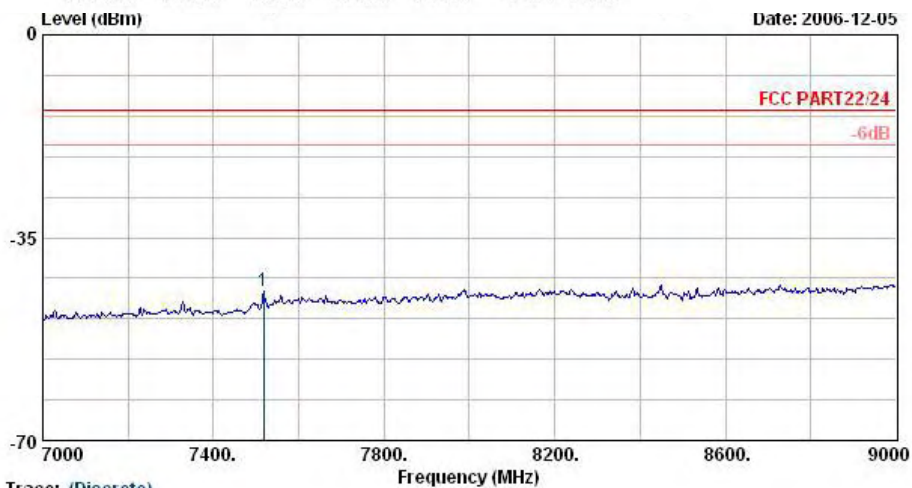


FCC TEST REPORT

Report No. : FG6N2811



1 @

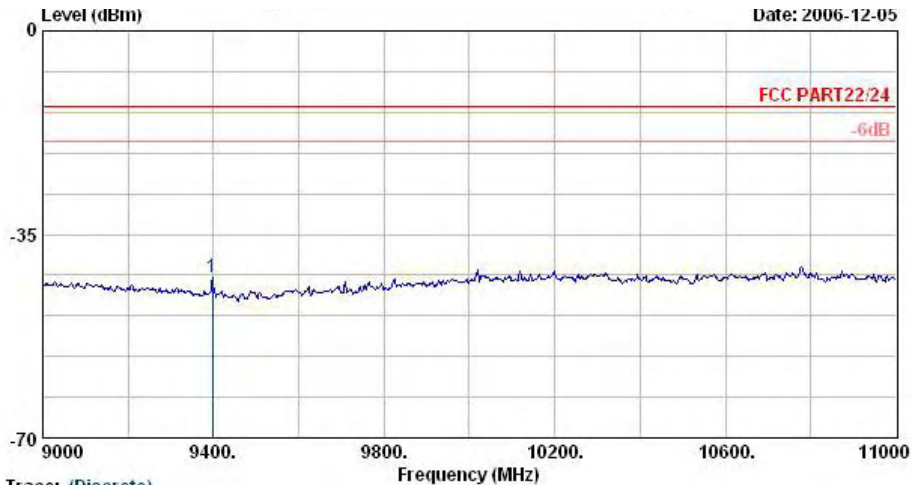


1 @



FCC TEST REPORT

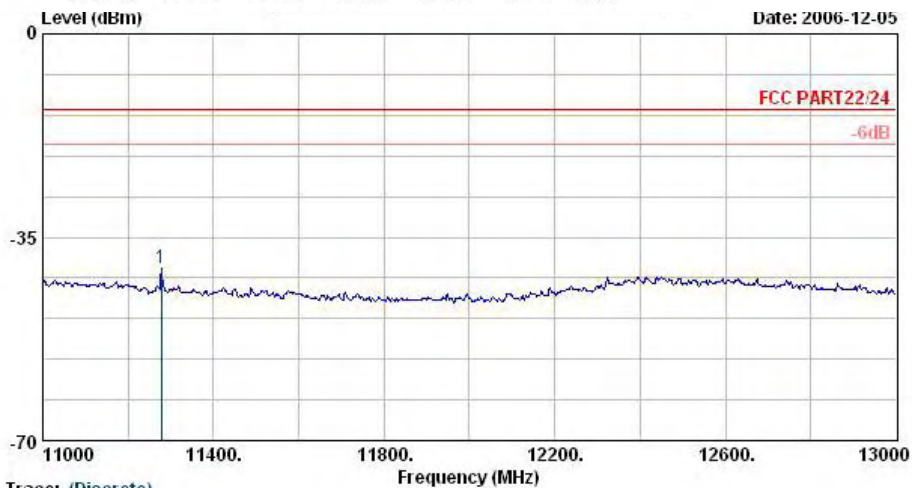
Report No. : FG6N2811



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
			dB	dBm	dBm	dB	
1 @	9398.0	-42.29	-29.29	-13.00	-60.51	18.22	Peak



Trace: (Discrete)

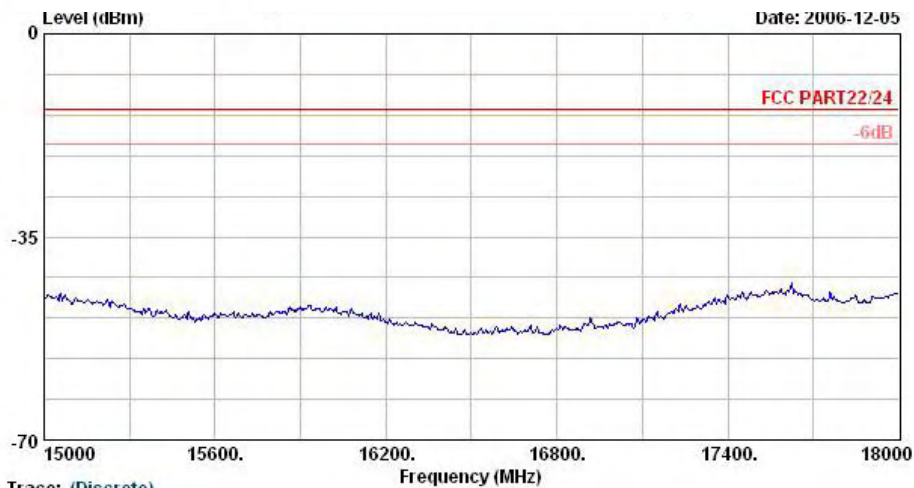
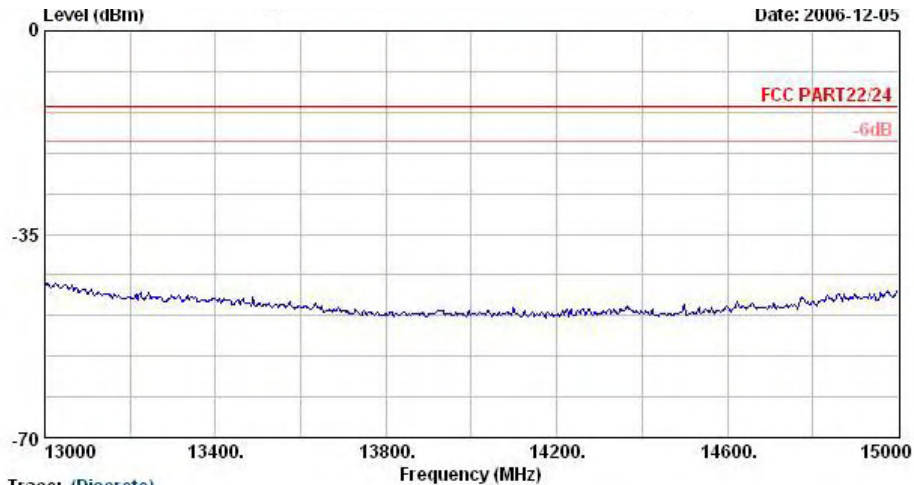
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	11278.0	-40.22	-27.22	-13.00	-60.51	20.30	Peak



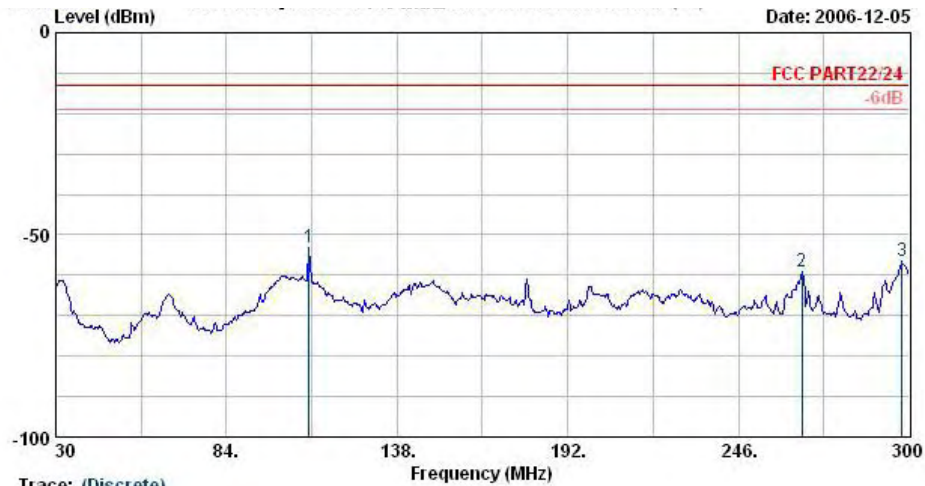
FCC TEST REPORT

Report No. : FG6N2811



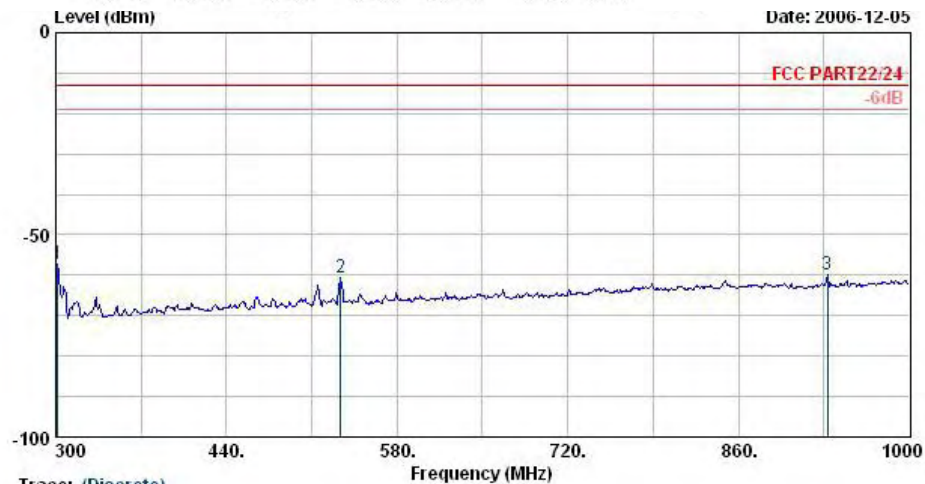


Vertical Polarization



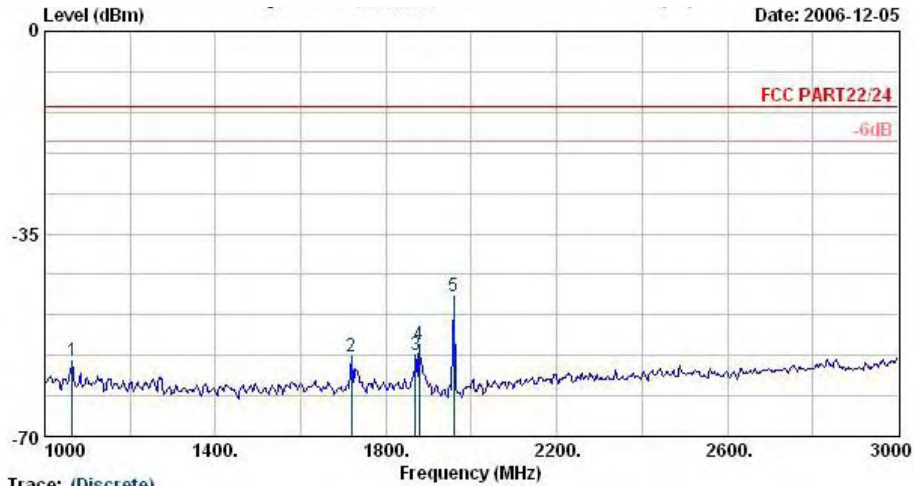
Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	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

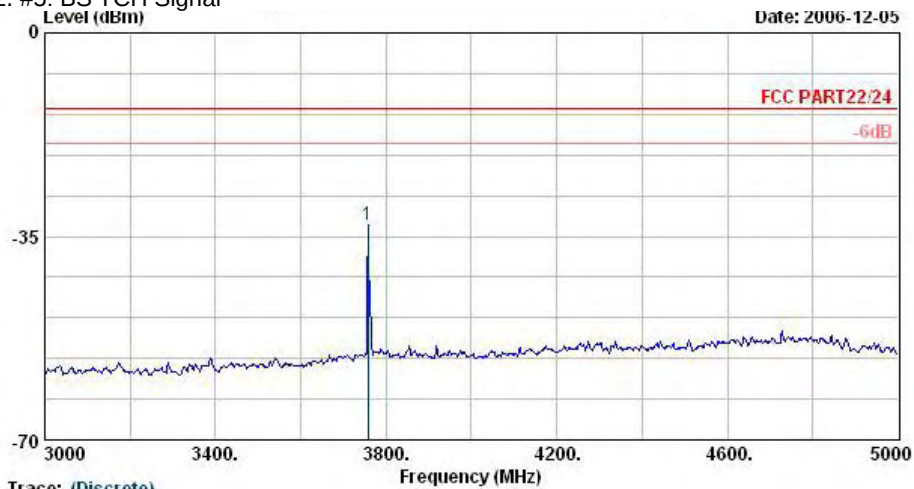


Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	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



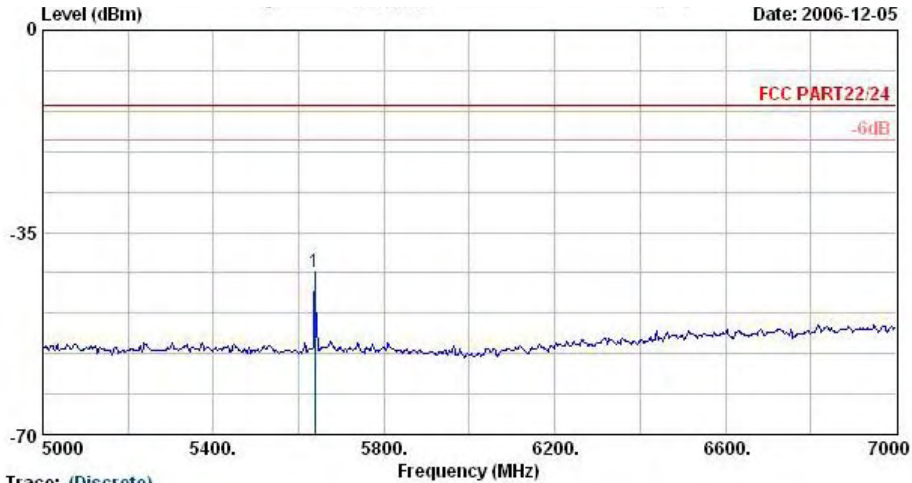
Remark: 1. #3: MS TCH Signal
2. #5: BS TCH Signal





FCC TEST REPORT

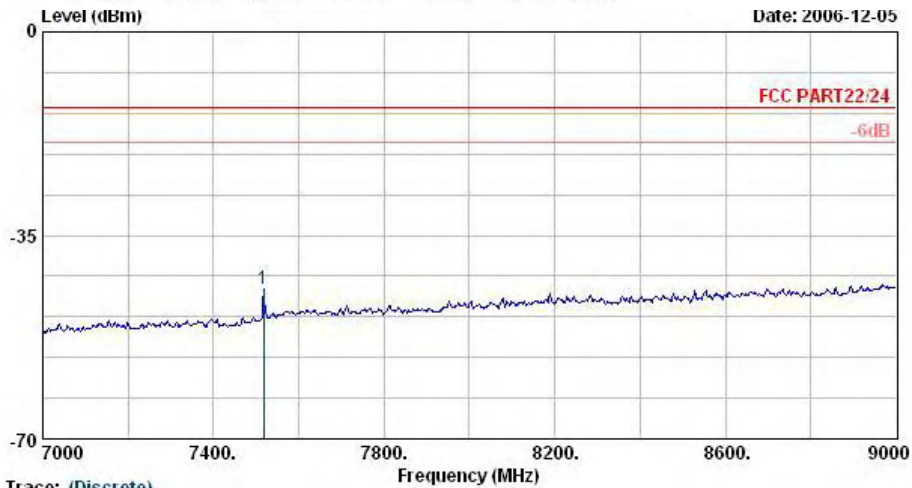
Report No. : FG6N2811



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SFURIOUS 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
			dB	dBm	dBm	dB
1 @	5638.0	-41.92	-28.92	-13.00	-50.58	8.65 Peak



Trace: (Discrete)

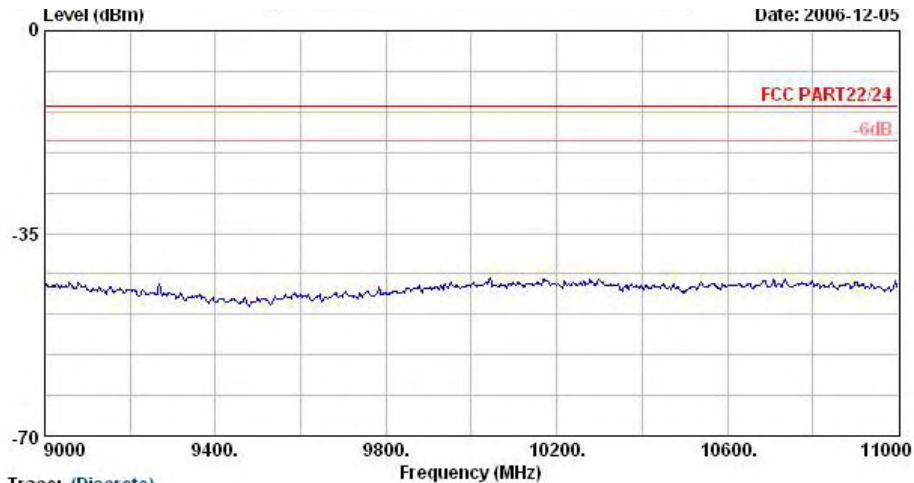
Site : 03CH06-HY
Condition : HF-SFURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	7518.0	-44.35	-31.35	-13.00	-57.72	13.37 Peak

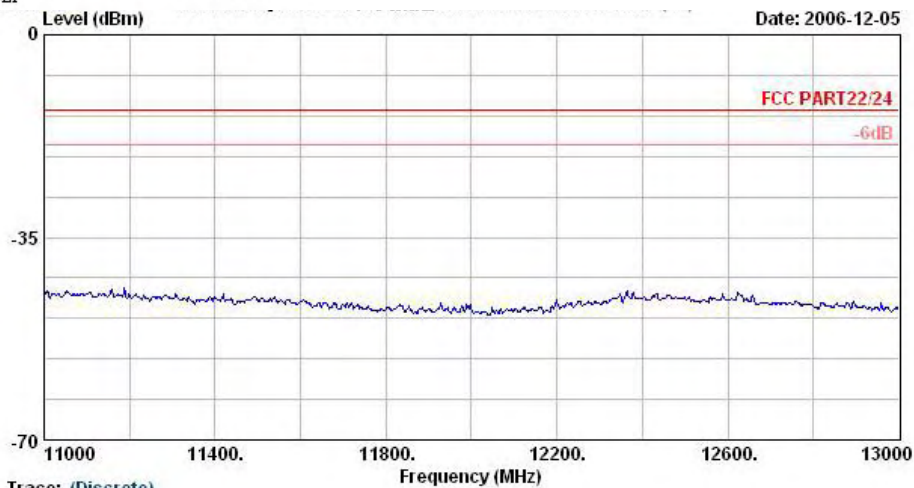


FCC TEST REPORT

Report No. : FG6N2811



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

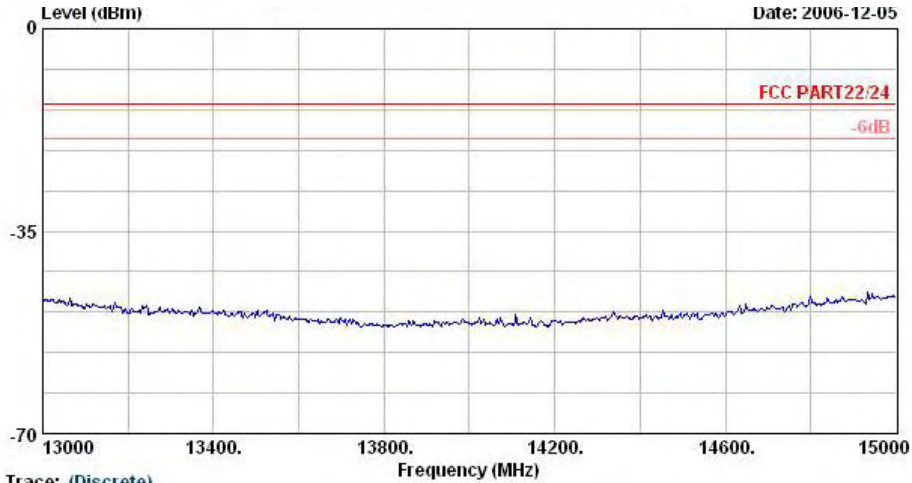


Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;Ch661+Adaptor+Earphone
Plane : E1

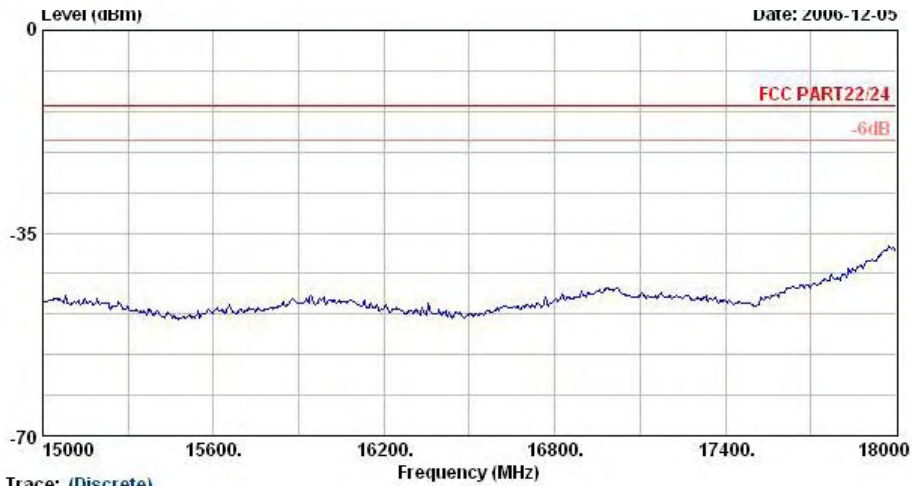


FCC TEST REPORT

Report No. : FG6N2811



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;C1661+Adaptor+Earphone
Plane : E1



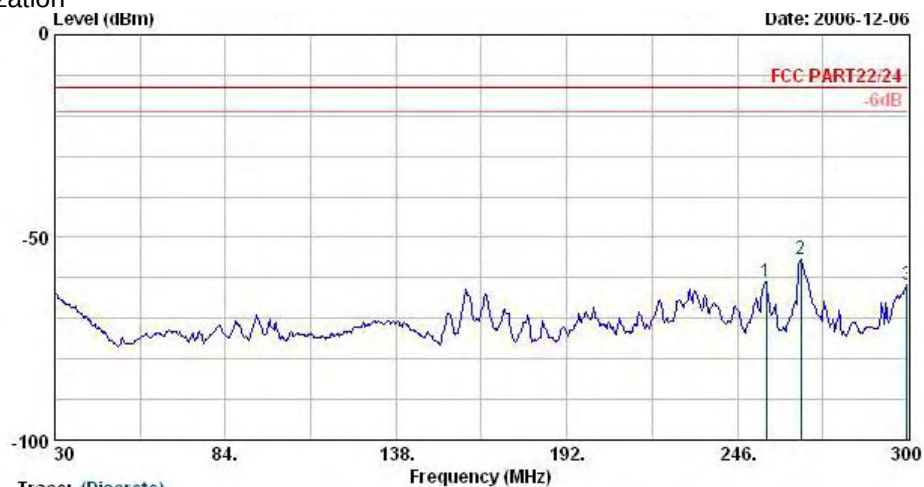
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FG 6N2811
Mode : PCS1900 Link Mode;C1661+Adaptor+Earphone
Plane : E1

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



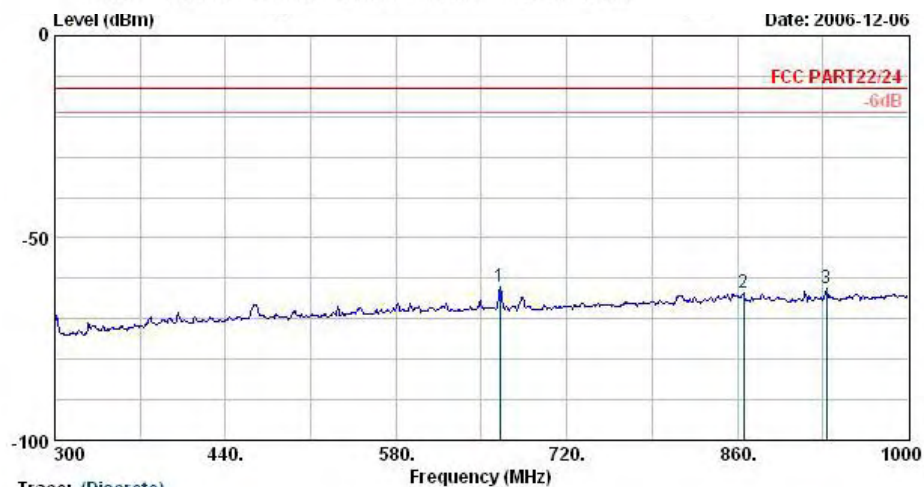
4.6.5.4 Mode 4

Horizontal Polarization



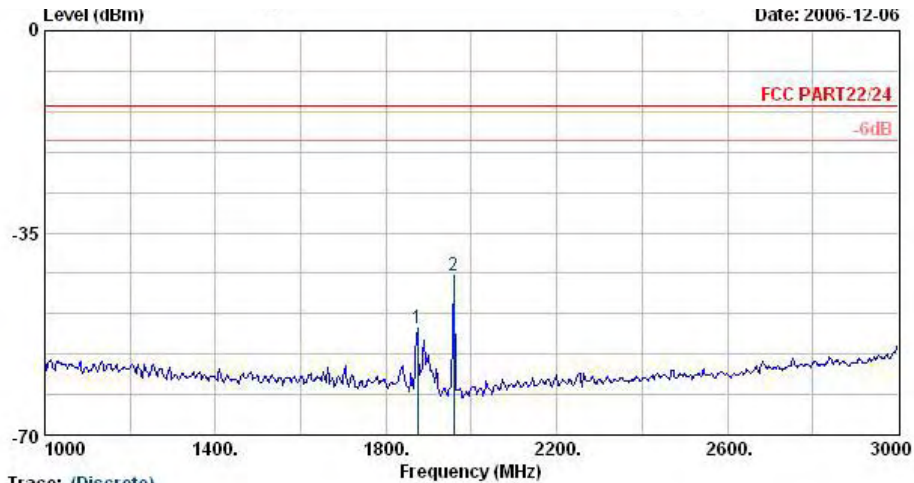
Trace: (Discrete)
Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	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

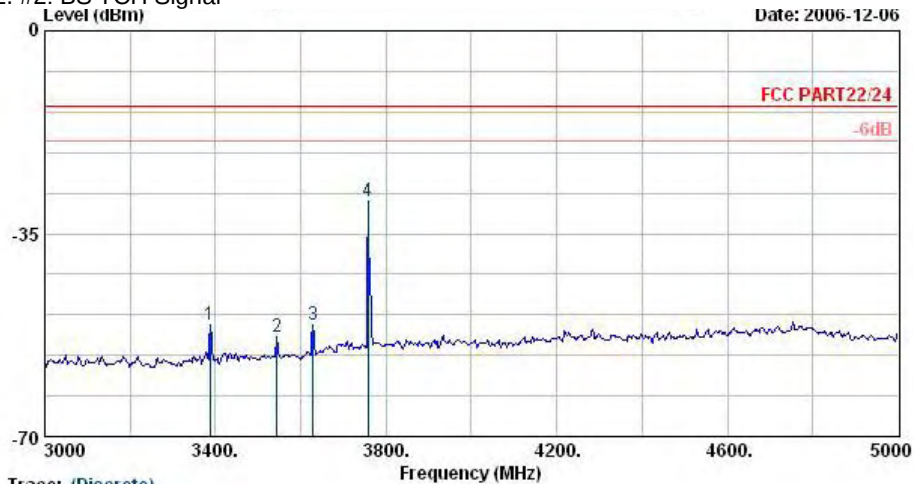


Trace: (Discrete)

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)

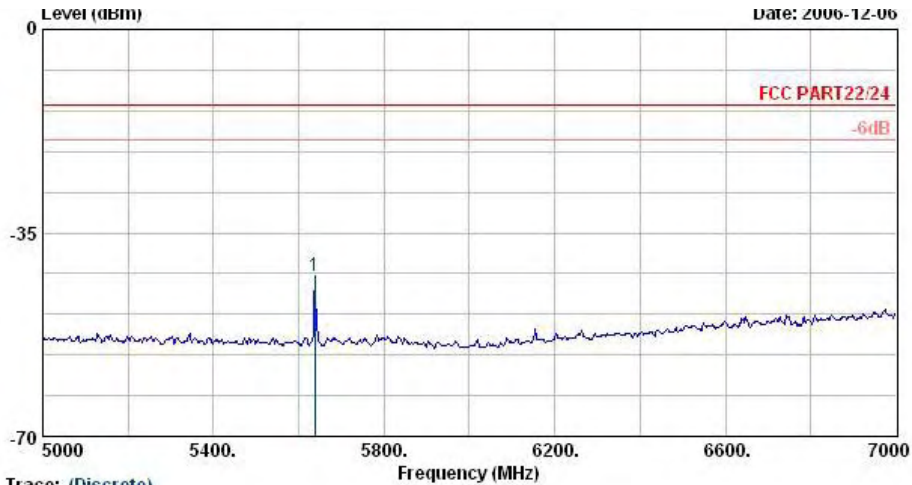
Site : 03CH06-HY
Condition : HF-SFURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	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



FCC TEST REPORT

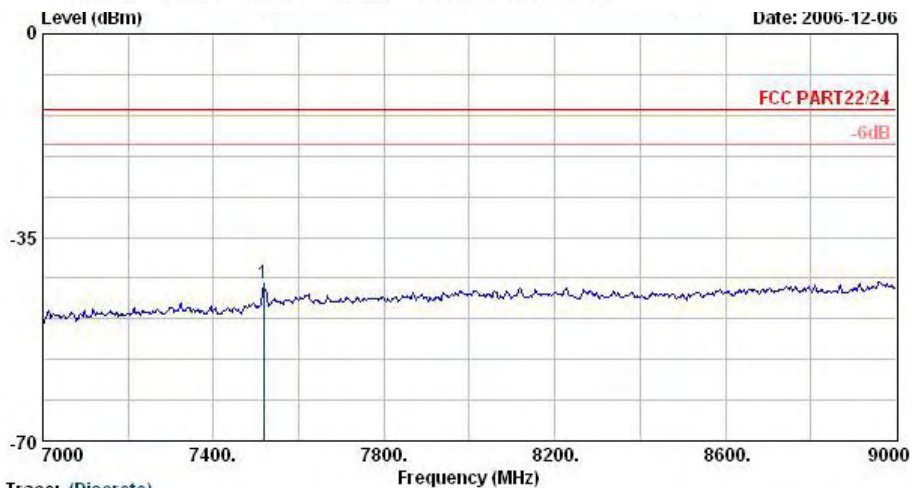
Report No. : FG6N2811



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 @	5638.0	-42.41	-29.41	-13.00	-52.38	9.97 Peak



Trace: (Discrete)

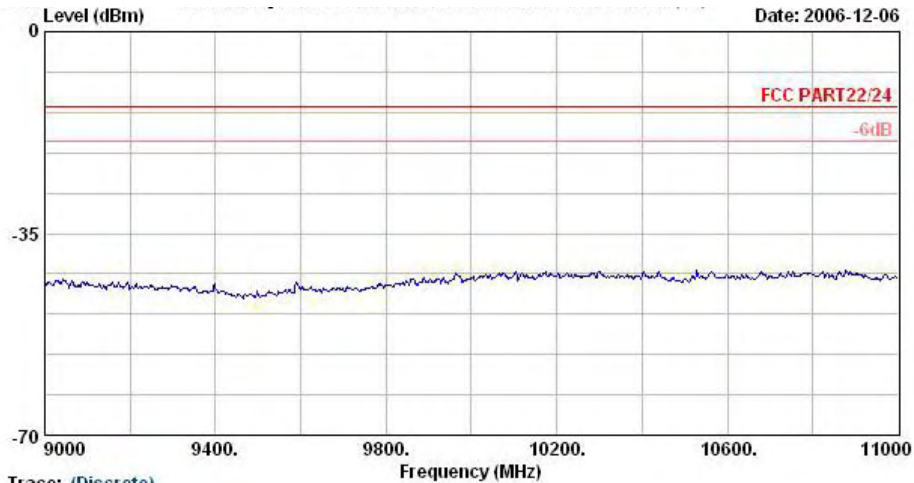
Site : 03CH06-HY
Condition : HF-SFURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

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



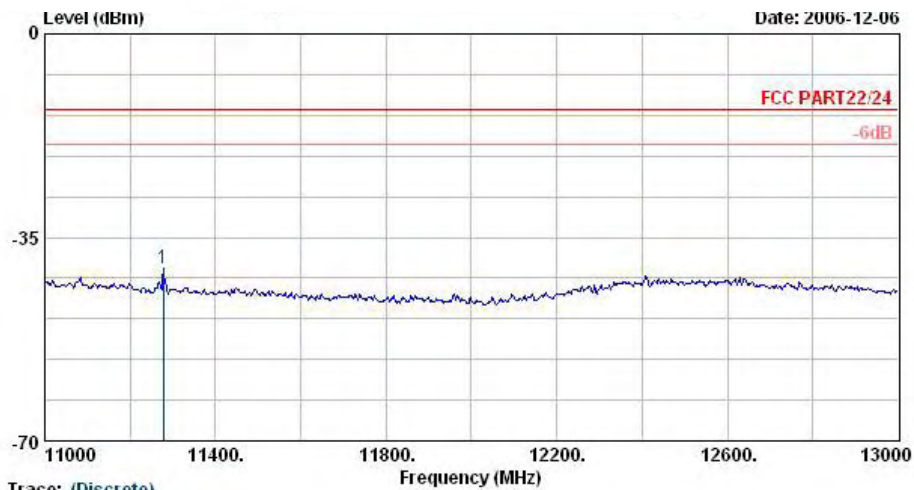
FCC TEST REPORT

Report No. : FG6N2811



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



Trace: (Discrete)

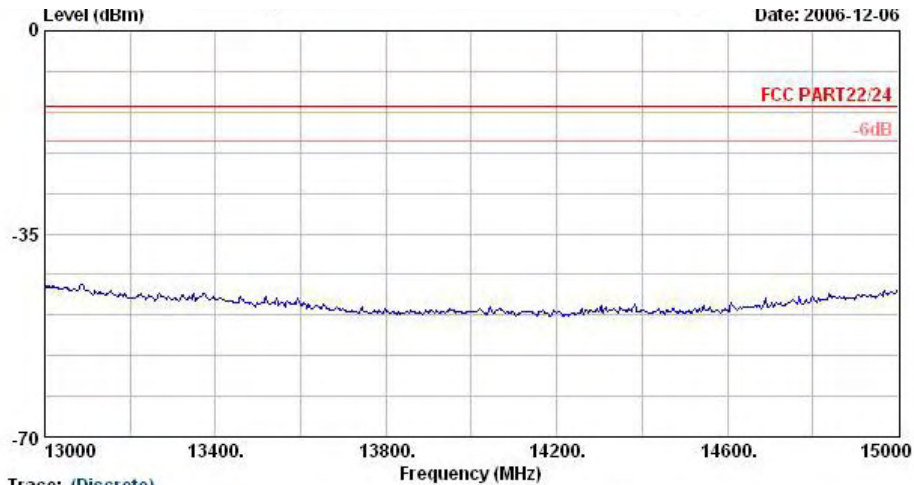
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

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

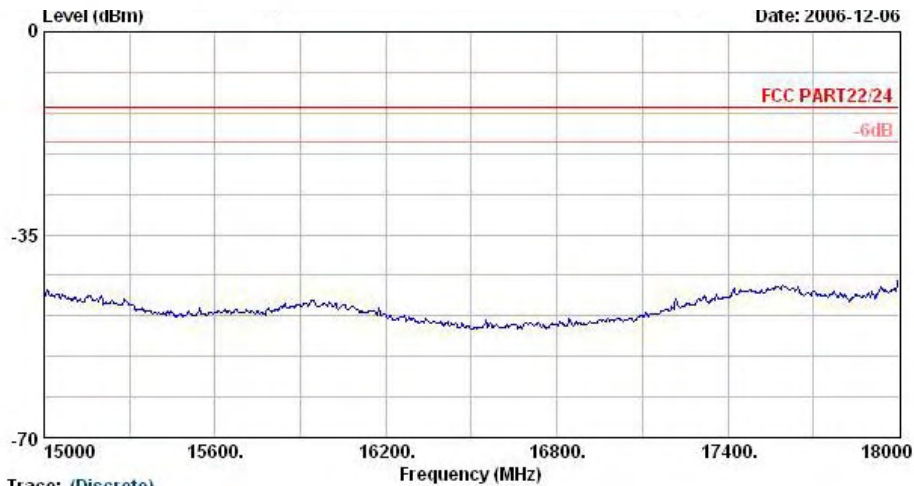


FCC TEST REPORT

Report No. : FG6N2811



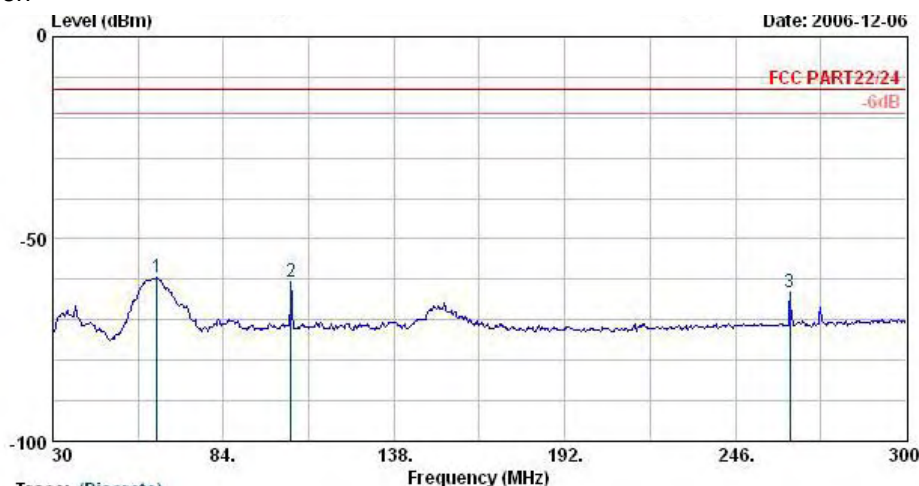
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1



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

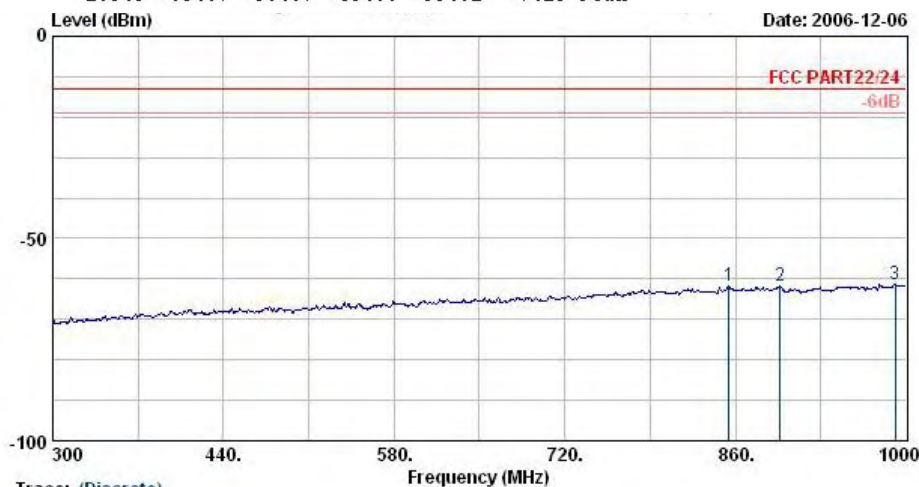


Vertical Polarization



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



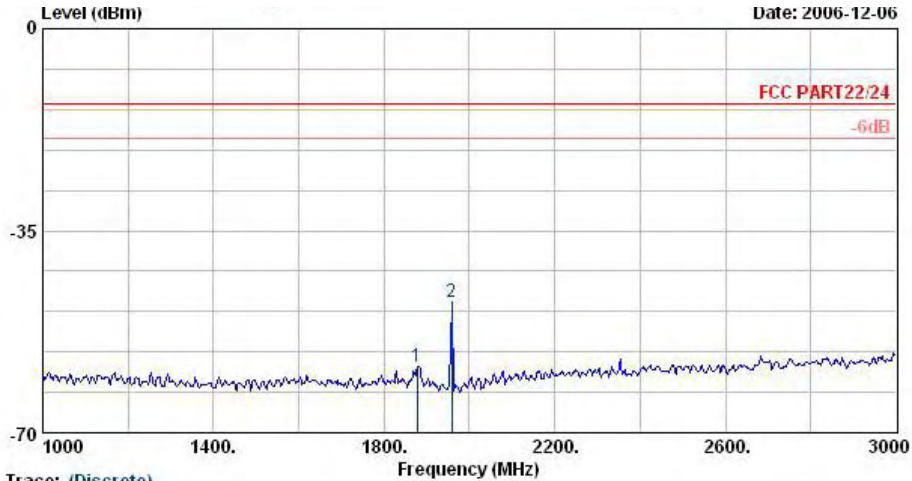
Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

	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



FCC TEST REPORT

Report No. : FG6N2811

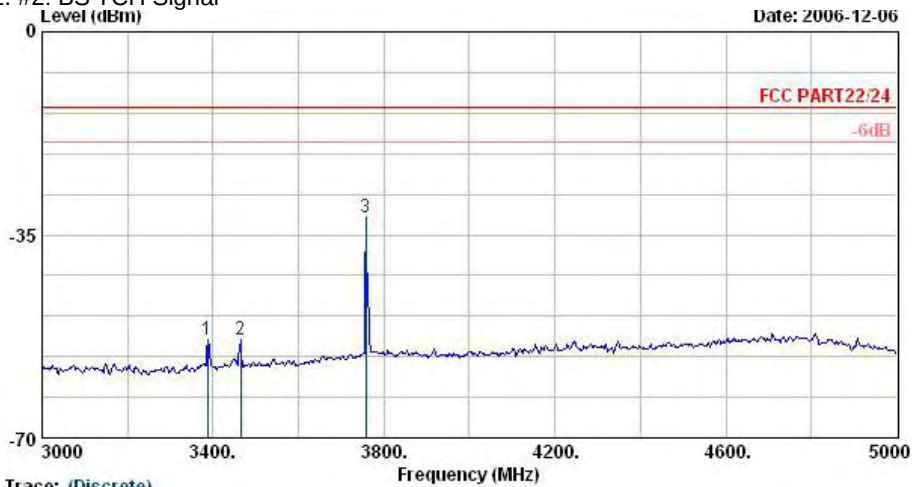


Trace: (Discrete)

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

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

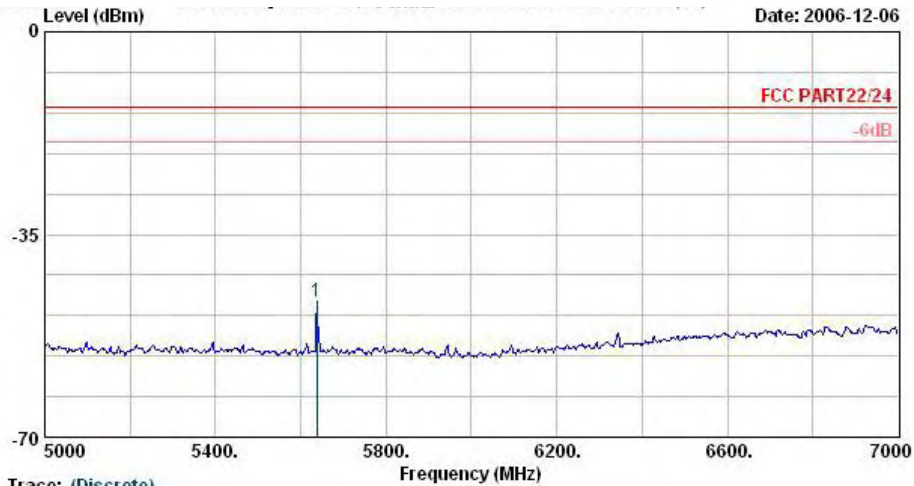
Remark: 1. #1: MS TCH Signal
2. #2: BS TCH Signal



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

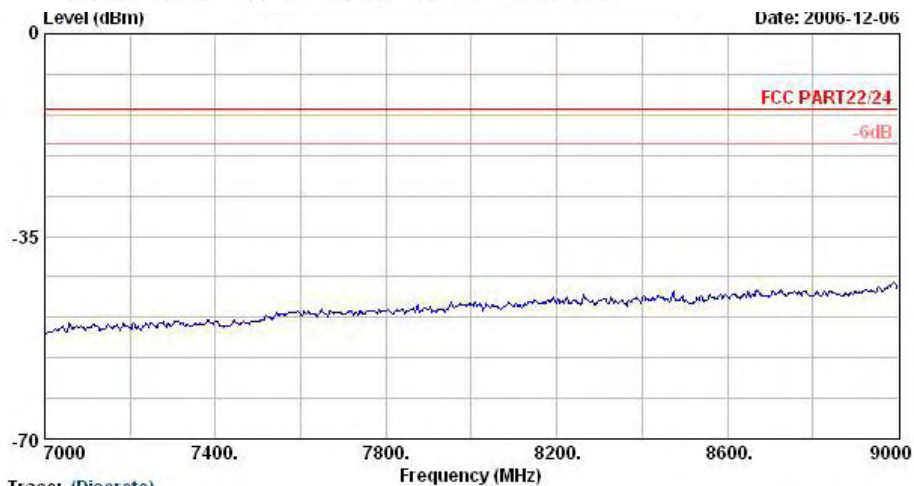
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
		dB	dBm	dB			
1	3388.0	-52.99	-39.99	-13.00	-57.66	4.67	Peak
2	3464.0	-53.18	-40.18	-13.00	-58.03	4.85	Peak
3 @	3758.0	-32.06	-19.06	-13.00	-38.70	6.64	Peak



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	dB	dBm	dBm	dB	Remark
1 @	5638.0	-46.50	-33.50	-13.00	-55.16	8.65	Peak



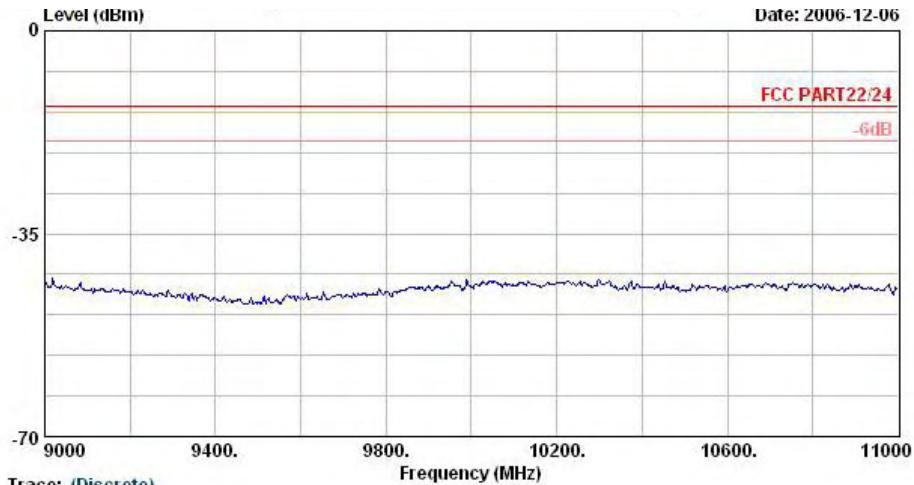
Trace: (Discrete)

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



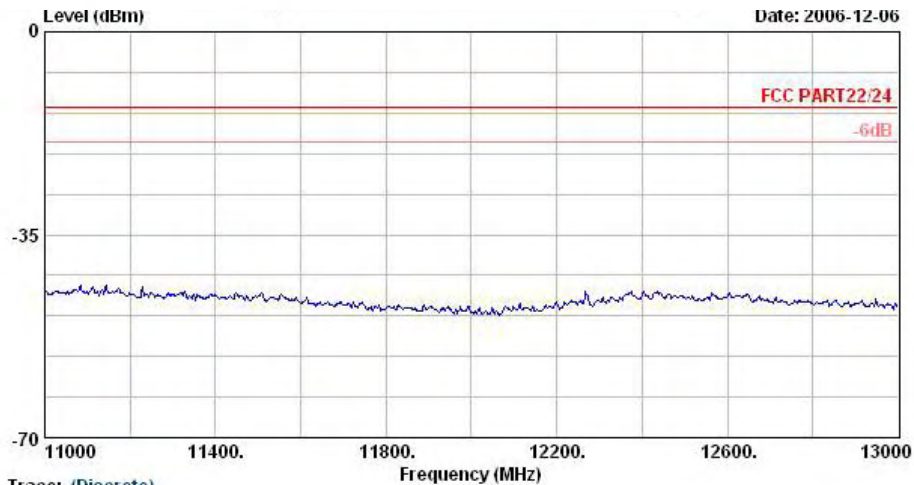
FCC TEST REPORT

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



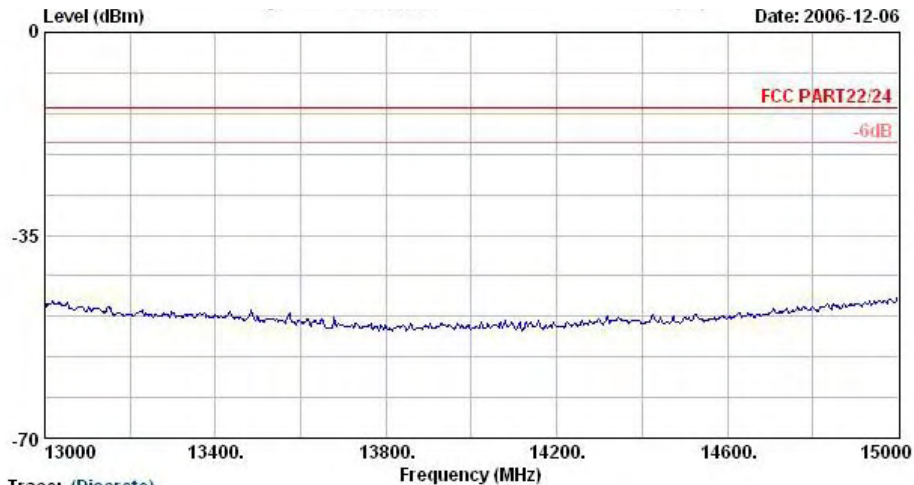
Trace: (Discrete)

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



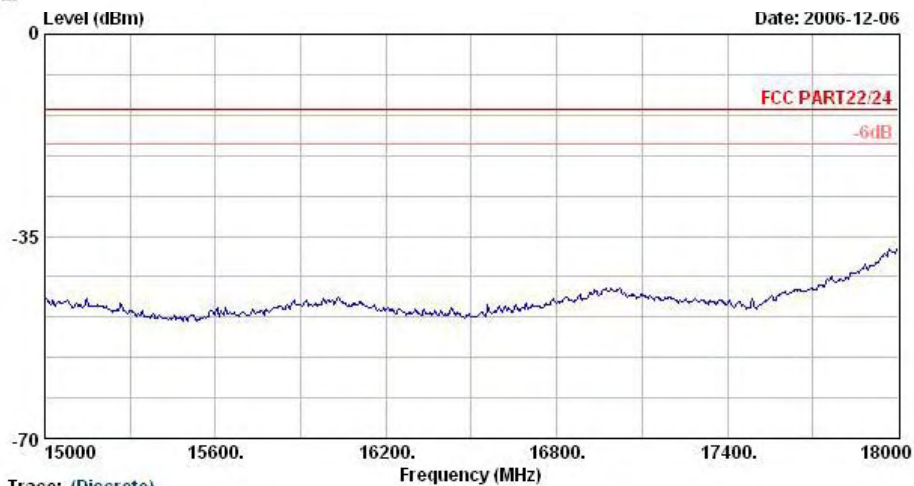
FCC TEST REPORT

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)

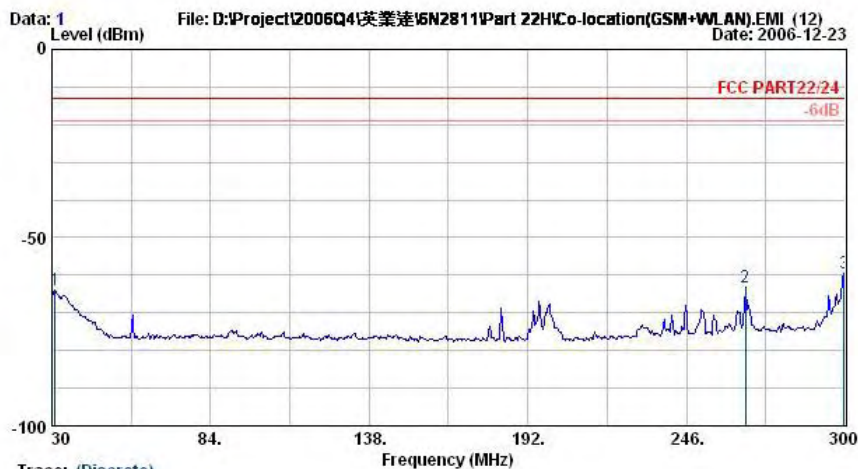
Site : 08CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : EDGE Link Mode;Ch661+Adaptor+Earphone
Plane : E1

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



4.6.5.5 Mode 5

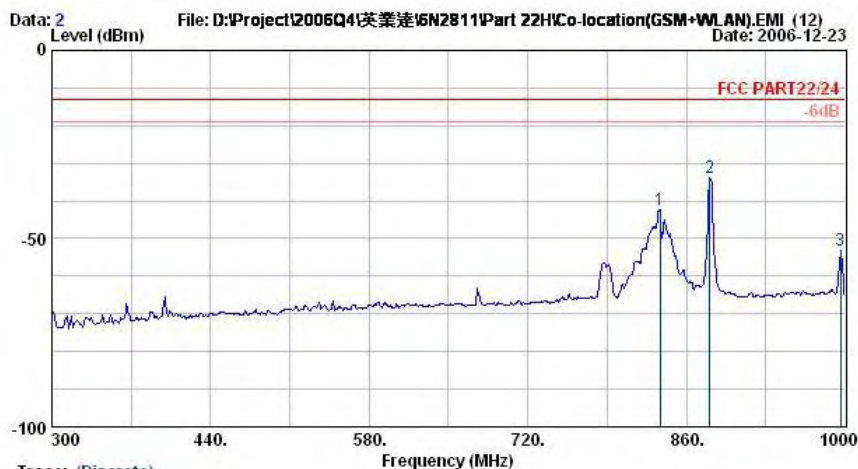
Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;CH189+11b Tx_CH11
Mode : +Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	31.1	-63.94	-50.94	-13.00	-63.69	-0.25	Peak
2	266.0	-63.32	-50.32	-13.00	-52.20	-11.12	Peak
3	299.7	-59.54	-46.54	-13.00	-49.60	-9.95	Peak

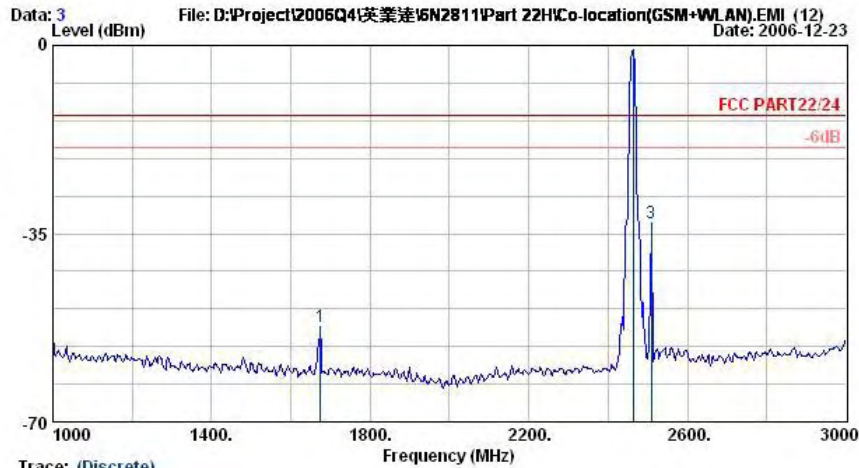


Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;CH189+11b Tx_CH11
Mode : +Adaptor+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	836.9	-42.38	-29.38	-13.00	-41.05	-1.33	Peak
2 @	880.3	-33.80			-32.88	-0.91	Peak
3 @	995.8	-52.98			-53.19	0.20	Peak

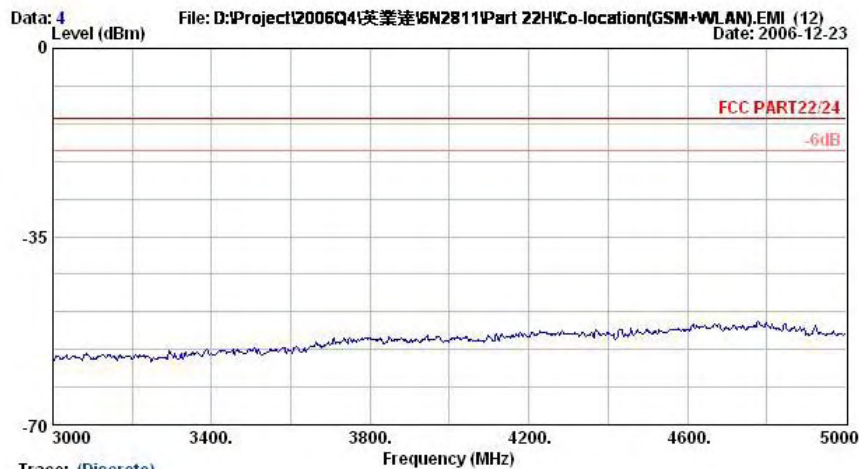
Remark: 1. #2: MS TCH Signal
2. #3: BS TCH Signal



Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+11b Tx_Ch11
+Adaptxt+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	Factor Remark
1 @	1674.0	-52.18	-39.18	-13.00	-52.40	0.22 Peak
2 @	2464.0	-0.90			-2.01	1.11 Peak
3 @	2508.0	-32.96	-19.96	-13.00	-34.16	1.20 Peak

Remark: 1. #2: BT Signal

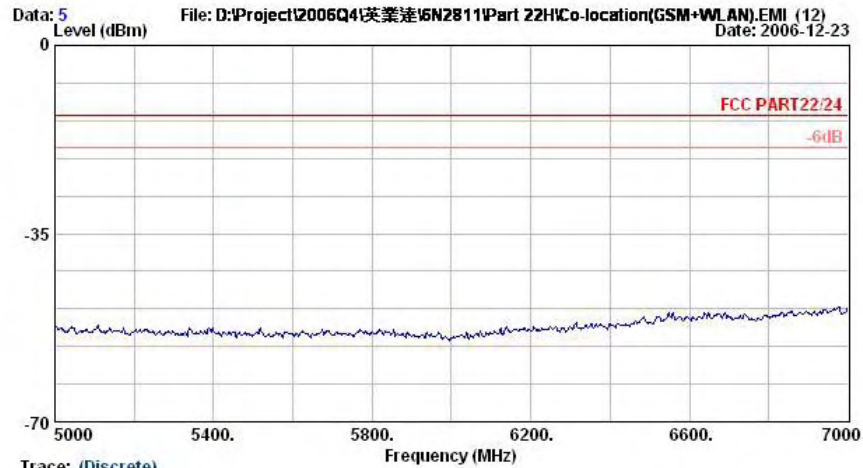


Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+11b Tx_Ch11
+Adaptxt+Earphone
Plane : E1



FCC TEST REPORT

Report No. : FG6N2811



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SPURIOUS HORIZONTAL

EUT : Mobile Phone

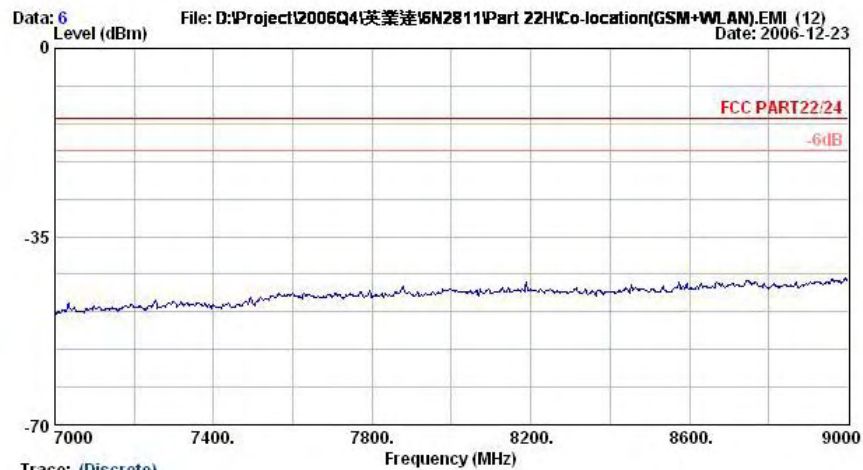
Power : 120Vac/60Hz

Model : FG 6N2811

Mode : GSM850 Link Mode;Ch189+11b Tx_Ch11

Mode : +Adaptov+Earphone

Plane : E1



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SPURIOUS HORIZONTAL

EUT : Mobile Phone

Power : 120Vac/60Hz

Model : FG 6N2811

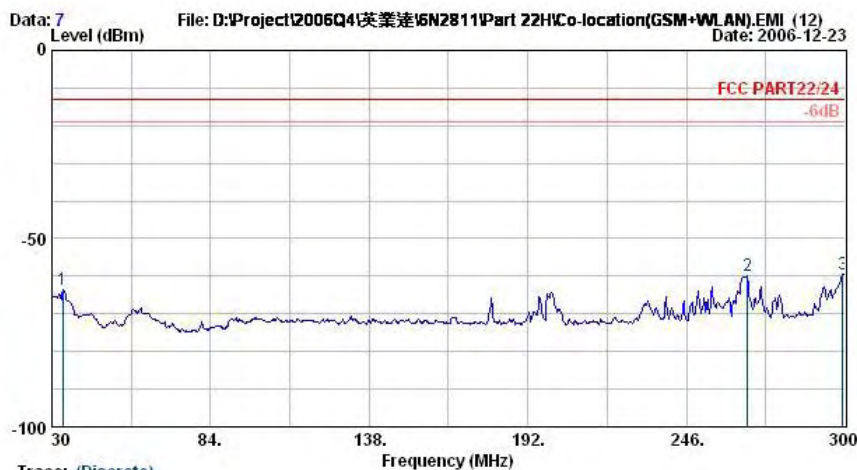
Mode : GSM850 Link Mode;Ch189+11b Tx_Ch11

Mode : +Adaptov+Earphone

Plane : E1



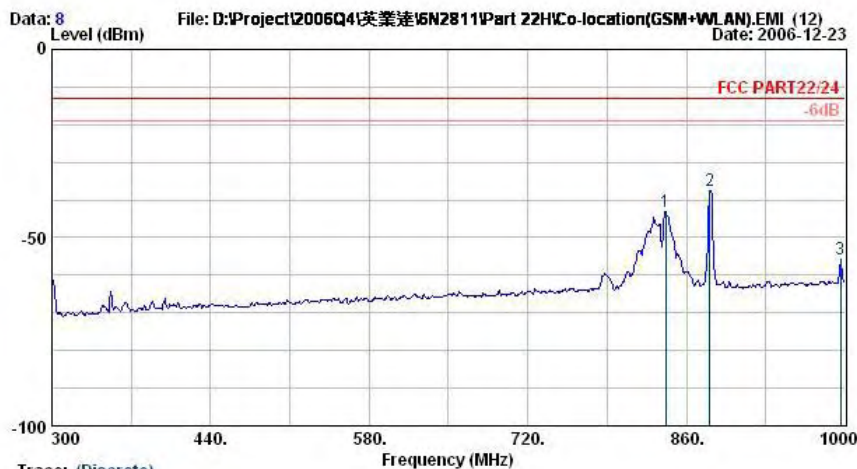
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LP-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+11b Tx_Ch11
Mode : +Adaptov+Earpnone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	Factor	Remark
1	33.8	-63.52	-50.52	-13.00	-53.35	-10.17	Peak
2	266.8	-59.88	-46.88	-13.00	-52.72	-7.16	Peak
3 @	299.2	-59.44	-46.44	-13.00	-52.98	-6.46	Peak

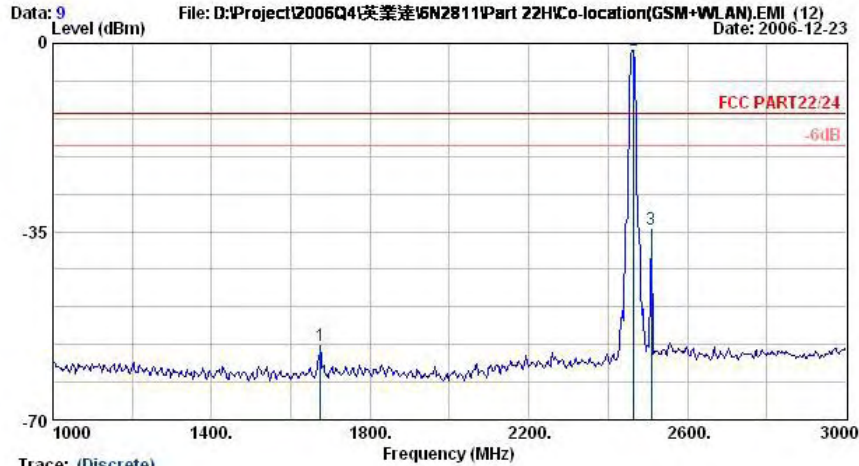


Trace: (Discrete)

Site : 03CH06-HY
Condition : LP-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+11b Tx_Ch11
Mode : +Adaptov+Earpnone
Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	Factor	Remark
1 @	841.8	-42.98			-44.38	1.40	Peak
2 @	880.3	-37.39			-39.10	1.71	Peak
3 @	995.8	-55.65	-42.65	-13.00	-58.28	2.63	Peak

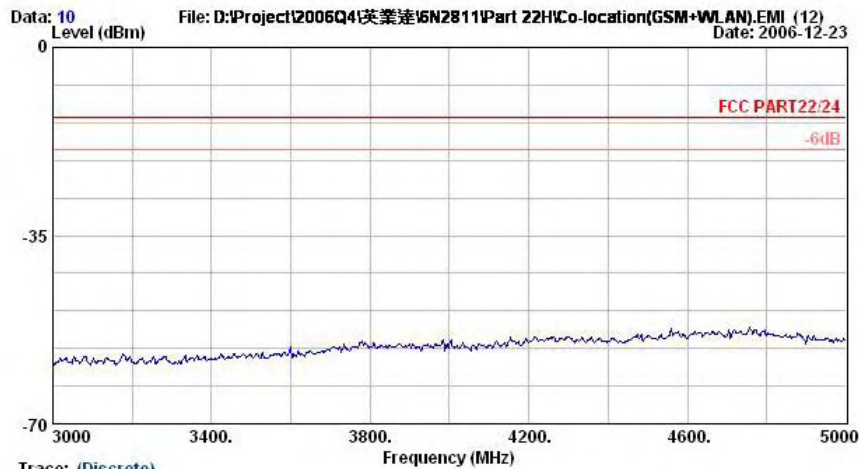
Remark: 1. #1: MS TCH Signal
2. #2: BS TCH Signal



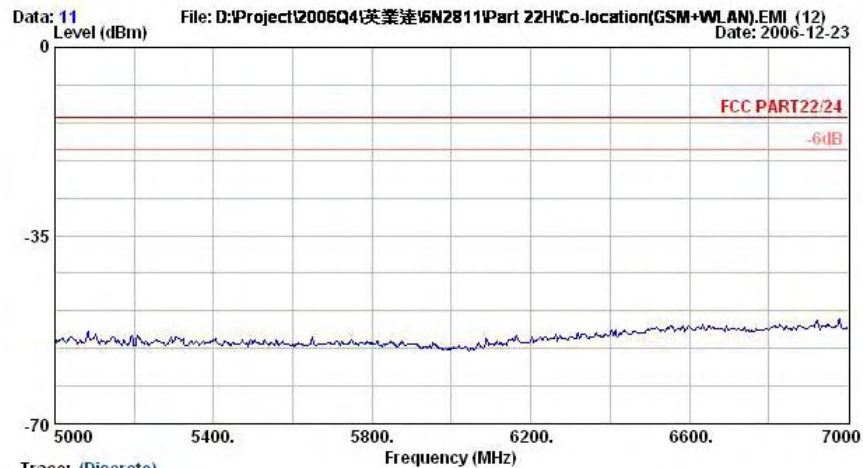
Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2811
Mode : GSM850 Link Mode;Ch189+11b Tx_Ch11
Plane : +Adaptovt+Earphone
Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	Factor Remark
1 @	1674.0	-56.13	-43.13	-13.00	-55.65	-0.48 Peak
2 @	2464.0	-1.22			-3.37	2.16 Peak
3 @	2508.0	-34.68	-21.68	-13.00	-36.95	2.27 Peak

Remark: 1. #2: 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+11b Tx_Ch11
Plane : +Adaptovt+Earphone
Plane : E1



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL

EUT : Mobile Phone

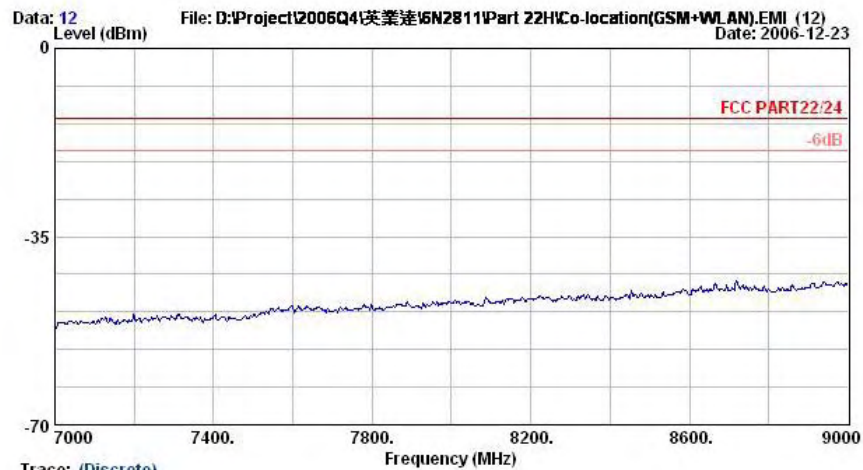
Power : 120Vac/60Hz

Model : FG 6N2811

Mode : GSM850 Link Mode;Ch189+11b Tx_Ch11

Mode : +Adaptov+Earphone

Plane : E1



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL

EUT : Mobile Phone

Power : 120Vac/60Hz

Model : FG 6N2811

Mode : GSM850 Link Mode;Ch189+11b Tx_Ch11

Mode : +Adaptov+Earphone

Plane : E1

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

4.7 Frequency Stability (Temperature Variation)

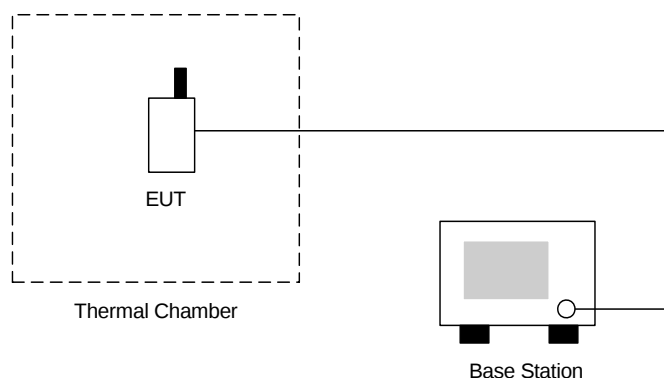
4.7.1 Measurement Instrument

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 -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()	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()	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()	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()	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 .

4.8 Frequency Stability (Voltage Variation)

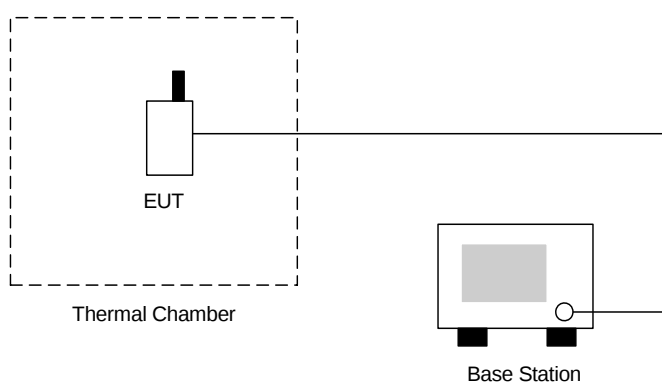
4.8.1 Measurement Instrument

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:

- Normal Voltage=3.7V.
- 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