ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H and PART 24 SUBPART E

OF

Product Name:	**3.5G PDA phone**
Brand / Marketing Name:	**i-mate™**
Model Name:	**Ultimate 8150**
FCC ID:	**PJO9002**
Report No.:	**EH/2007/60006~7**
Issue Date:	**Jul. 12, 2007**
FCC Rule Part:	**2 , 22H & 24E**
Prepared for	**ARIMA COMMUNICATIONS CORP.**
	No.16, Lane 658, Ying Tao Road, Yingko, Taipei Hsien, Taiwan, R.O.C.
Prepared by	**SGS Taiwan Ltd.**
	No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.

VERIFICATION OF COMPLIANCE

Applicant:	ARIMA COMMUNICATIONS CORP. No.16, Lane 658, Ying Tao Road, Yingko, Taipei Hsien, Taiwan, R.O.C.
Product Name:	3.5G PDA phone
FCC ID Number:	PJO9001
Brand / Marketing Name:	i-mate™
Model No.:	Ultimate 8150
Model Difference:	N/A
File Number:	EH/2007/60006~7
Date of test:	May 28, 2007~Jul. 11, 2007
Date of EUT Received:	May 28, 2007

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-1-1998 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 subpart H and FCC PART 24 subpart E.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Sky Wang	***Date***	Jul. 12, 2007
	Sky Wang / Sr. Engineer		
Prepared By:	Eva Kao	***Date***	Jul. 12, 2007
	Eva Kao / Sr. Engineer		
Approved By	Vincent Su	***Date***	Jul. 12, 2007
	Vincent Su / Manager		

Version

Version No.	Date
00	Jul. 12, 2007

Table of Contents

1. GENERAL INFORMATION

1.1 Product Description

Product Name:	3.5G PDA phone	
Brand / Marketing Name:	i-mate™	
Model Name:	Ultimate 8150	
Model Difference:	N/A	
Simple Hands-Free (SHF):	Mode No.: N/A, Supplier: N/A	
Data Cable (USB):	1 cable, model: N/A	
TV out cable	1 cable, model: N/A	
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery Model:	i-mate™ Ultimate, Supplier: Welldone
	Adapter Model:	PSAA05A-050, Supplier: PHIHONG

GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power	GSM/GPRS 850	824 MHz– 849MHz	33 dBm
	GSM/GPRS 1900	1850MHz – 1910MHz	30 dBm
	WCDMA Band II	1850MHz – 1910MHz	24 dBm
	WCDMA Band V	824 MHz– 849MHz	24 dBm
Type of Emission	GSM: 300KGXW WCDMA: 4M20F9W		
IMEI	35568801048320		
Software Version	9001_RIL_FTA_V03		
Hardware Version	EP2		

WLAN:

Frequency Range	2412 – 2462 MHz
Channel number	11 channels
Rated Power	802.11 b: 13.83 dBm 802.11 g: 11.60 dBm
Modulation Technology	DSSS, OFDM
Modulation type	CCK, DQPSK, DBPSK for DSSS 64QAM. 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11/54 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps
Antenna Designation	PIFA Antenna, -3.79 dBi.

The EUT is compliance with IEEE 802.11 b/g Standard.

Bluetooth:

Frequency Range	2402 – 2480MHz
Channel number	79 channels
Rated Power	2.52 dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum (FHSS)(FGSK)
Antenna Designation	PIFA Antenna, -3.94 dBi

The EUT is compliance with Bluetooth Standard.

This test report applies for GSM/GPRS 850, GSM/GPRS 1900, WCDMA Band II, and WCDMA Band V.

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: PJO9002** filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 (2003) and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by TAF (0513). Canada Registration Number: 4620A-1

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

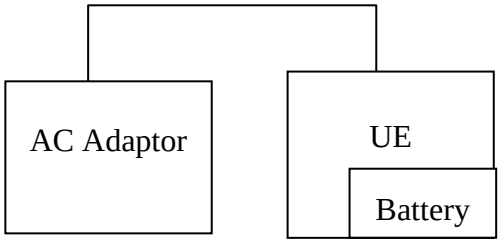
The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 1.0 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel)



Remote Side

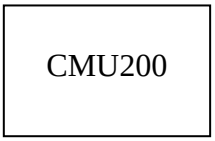


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a) §24.232(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a) §24.232(a)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1)(b)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1)(2)	Frequency Stability vs. Voltage	Compliant
§15.107;§15.207	AC Power Line Conducted Emission	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (E1 mode) and lie down position (E1, E2 mode) for both GSM/GPRS and WCDMA Band II and V with power adaptors, earphone and Data cable. The worst-case H mode for GSM 850 band, E2 mode for GSM 1900 band, H mode for WCDMA band II and WCDMA Band II with power adaptor for channel Low, Mid and High at each modes were reported.

5. RF POWER OUTPUT MEASUREMENT

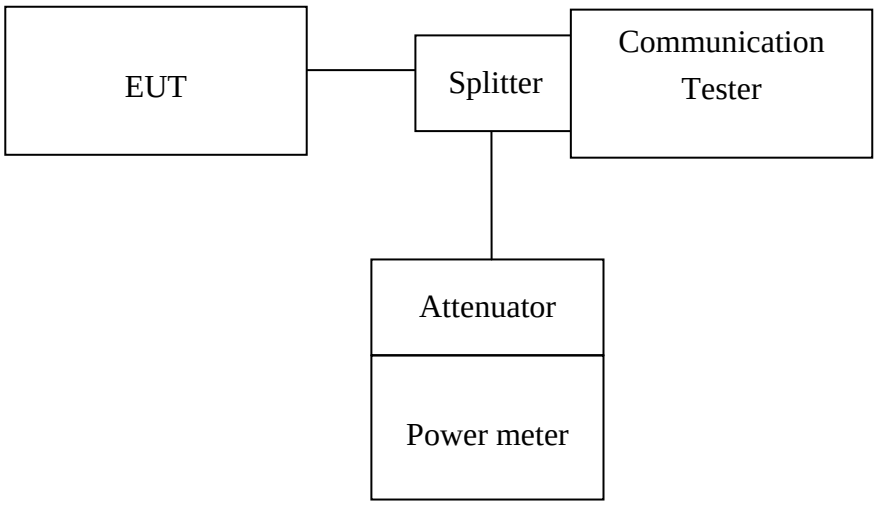
5.1 Standard Applicable

According to FCC §2.1046.

FCC 22.913(a) Mobile station are limited to 7W.

FCC 24.232(b) Mobile station are limited to 2W.

5.2 Test Set-up:



Note: *Measurement setup for testing on Antenna connector*

5.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

5.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2006	10/13/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2006	09/22/2007
Attenuator	Mini-Circult	BW-S6W5	N/A	09/23/2006	09/22/2007
Splitter	Agilent	11636B	51728	09/23/2006	09/22/2007
DC Power Supply	TOPWARD	3303A	N/A	N/A	N/A

5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
GSM 850	824.20	128	31.20	0.50	31.70
	836.60	190	31.40	0.50	31.90
	848.80	251	31.50	0.50	32.00

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	28.55	0.50	29.05
	1880.00	661	28.50	0.50	29.00
	1909.80	810	28.60	0.50	29.10

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
WCDMA II	1852.40	9262	22.74	0.50	23.24
	1880.00	9400	22.79	0.50	23.29
	1907.60	9538	22.62	0.50	23.12

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
WCDMA V	826.40	4132	22.00	0.50	22.50
	836.00	4180	22.02	0.50	22.52
	846.60	4233	22.52	0.50	23.02

6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

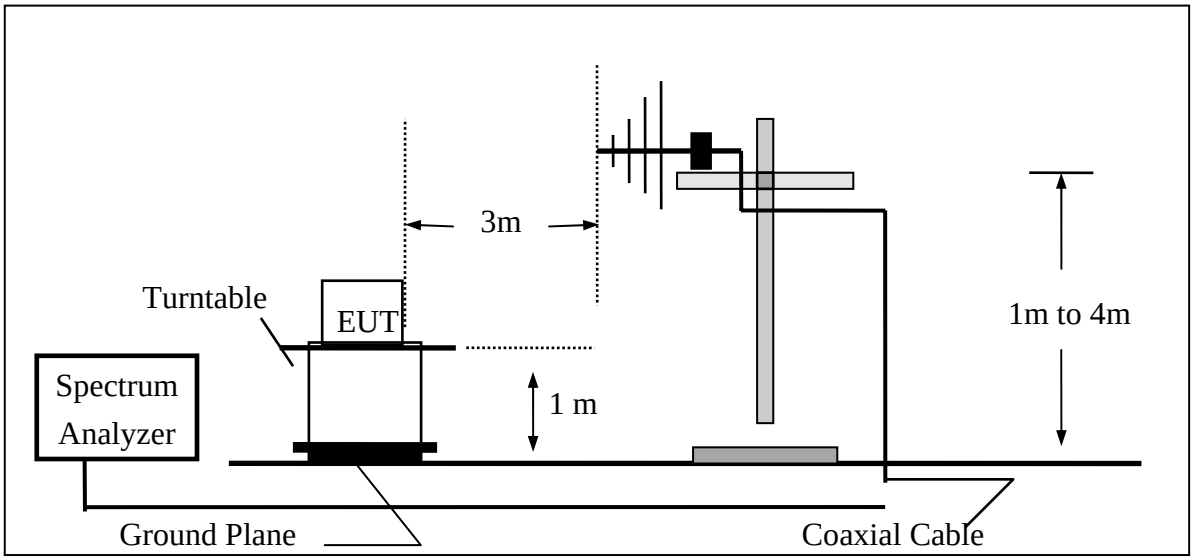
According to FCC §2.1046

FCC 22.913(a) Mobile station are limited to 7W ERP.

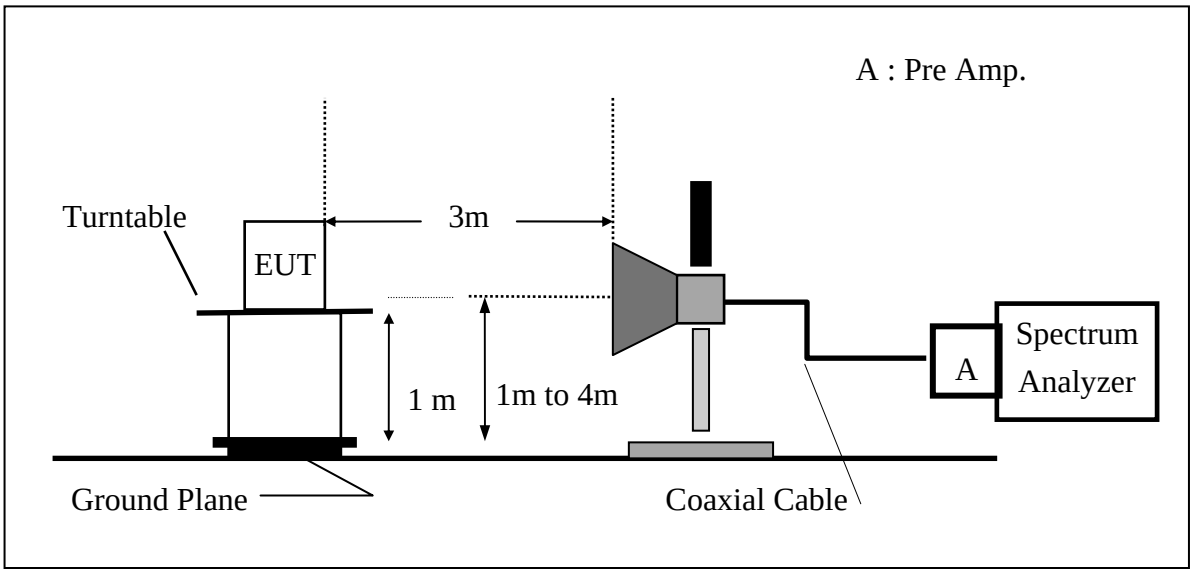
FCC 24.232(b) Mobile station are limited to 2W EIRP.

6.2 Test SET-UP (Block Diagram of Configuration)

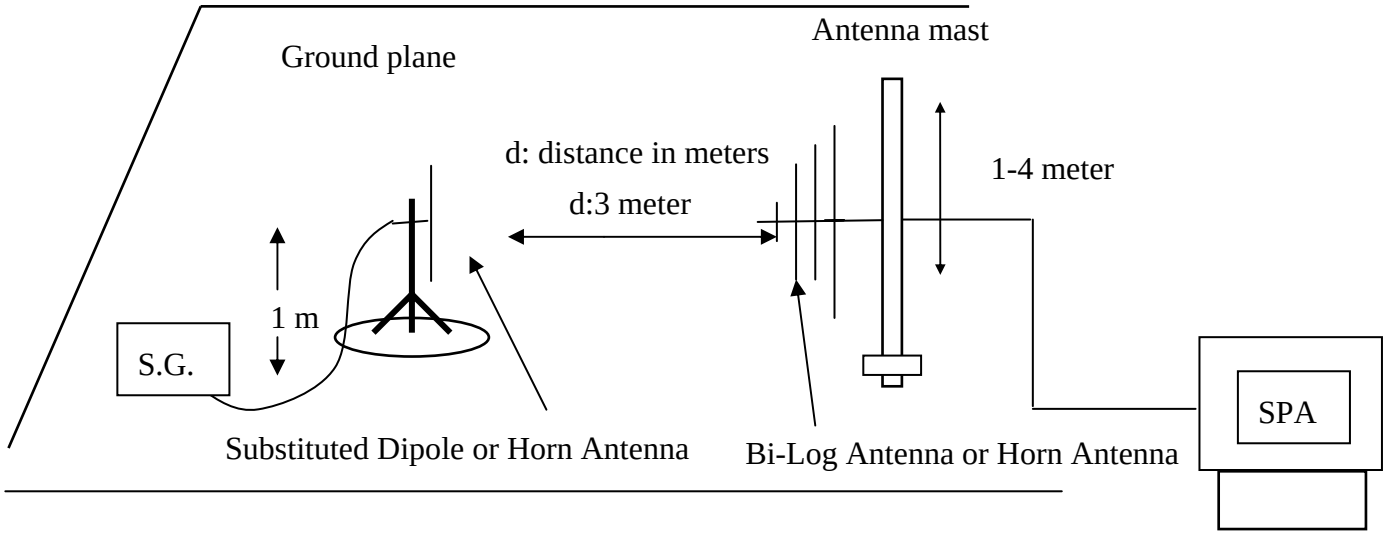
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



6.3 Measurement Procedure

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

6.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bilog Antenna	SCHWAZBECK	VULB9160	3224	11/14/2006	11/13/2007
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2006	08/15/2007
Pre-Amplifier	HP	8447D	2944A09469	07/19/2006	07/18/2007
Pre-Amplifier	HP	8494B	3008A00578	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2006	10/08/2007
Site NSA	SGS	966 chamber	N/A	11/17/2006	11/16/2007
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2006	09/22/2007
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/09/2007	06/10/2008
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/09/2007	06/10/2008
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2006	08/15/2007

6.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	H	V	118.13	31.74	-7.87	3.62	20.24	38.45
				H	124.78	38.51	-7.87	3.62	27.01	38.45
			E1	V	120.76	34.37	-7.87	3.62	22.87	38.45
				H	114.06	27.79	-7.87	3.62	16.29	38.45
			E2	V	115.69	29.30	-7.87	3.62	17.80	38.45
				H	123.14	36.87	-7.87	3.62	25.37	38.45
	836.60	190	H	V	118.99	32.74	-7.88	3.65	21.21	38.45
				H	126.37	40.14	-7.88	3.65	28.61	38.45
			E1	V	122.01	35.76	-7.88	3.65	24.23	38.45
				H	115.00	28.77	-7.88	3.65	17.24	38.45
			E2	V	116.47	30.22	-7.88	3.65	18.69	38.45
				H	124.90	38.67	-7.88	3.65	27.14	38.45
	848.80	251	H	V	120.66	34.54	-7.88	3.68	22.98	38.45
				H	128.10	41.91	-7.88	3.68	30.35	38.45
			E1	V	124.13	38.01	-7.88	3.68	26.45	38.45
				H	115.99	29.80	-7.88	3.68	18.24	38.45
			E2	V	117.76	31.64	-7.88	3.68	20.08	38.45
				H	126.93	40.74	-7.88	3.68	29.18	38.45

Remark：

(1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=100 KHz, VBW=300KHz,

Above 1GHz was RBW= 1MHz , VBW= 3MHz

6.6 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	H	V	123.40	19.01	9.90	5.56	23.35	33.00
				H	130.44	26.26	9.90	5.56	30.60	33.00
			E1	V	127.78	23.39	9.90	5.56	27.73	33.00
				H	127.73	23.55	9.90	5.56	27.89	33.00
			E2	V	128.83	24.44	9.90	5.56	28.78	33.00
				H	131.23	27.05	9.90	5.84	31.11	33.00
	1880.00	661	H	V	121.50	17.14	9.99	5.61	21.52	33.00
				H	129.07	24.93	9.99	5.61	29.30	33.00
			E1	V	127.18	22.82	9.99	5.61	27.20	33.00
				H	126.96	22.82	9.99	5.61	27.19	33.00
			E2	V	127.28	22.92	9.99	5.61	27.30	33.00
				H	130.39	26.25	9.99	5.61	30.62	33.00
	1909.80	810	H	V	121.61	17.28	10.08	5.66	21.70	33.00
				H	128.96	24.85	10.08	5.66	29.27	33.00
			E1	V	126.01	21.68	10.08	5.66	26.10	33.00
				H	126.03	21.92	10.08	5.66	26.34	33.00
			E2	V	126.67	22.34	10.08	5.66	26.76	33.00
				H	129.34	25.23	10.08	5.66	29.65	33.00

Remark：

(1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=100 KHz, VBW=300KHz,

Above 1GHz was RBW= 1MHz , VBW= 3MHz

6.7 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA II	1852.40	9262	H	V	115.41	11.02	9.90	5.56	15.36	33.00
				H	122.93	18.75	9.90	5.56	23.09	33.00
			E1	V	116.70	12.31	9.90	5.56	16.65	33.00
				H	119.49	15.31	9.90	5.56	19.65	33.00
			E2	V	118.11	13.72	9.90	5.56	18.06	33.00
				H	119.62	15.44	9.90	5.84	19.50	33.00
	1880.00	9400	H	V	114.36	10.00	9.99	5.61	14.38	33.00
				H	122.53	18.39	9.99	5.61	22.76	33.00
			E1	V	116.76	12.40	9.99	5.61	16.78	33.00
				H	119.37	15.23	9.99	5.61	19.60	33.00
			E2	V	117.49	13.13	9.99	5.61	17.51	33.00
				H	120.24	16.10	9.99	5.61	20.47	33.00
	1907.60	9538	H	V	114.36	10.03	10.08	5.66	14.45	33.00
				H	123.27	19.16	10.08	5.66	23.58	33.00
			E1	V	116.40	12.07	10.08	5.66	16.49	33.00
				H	119.27	15.16	10.08	5.66	19.58	33.00
			E2	V	119.04	14.71	10.08	5.66	19.13	33.00
				H	119.92	15.81	10.08	5.66	20.23	33.00

Remark：

(1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=100 KHz, VBW=300KHz,

Above 1GHz was RBW= 1MHz , VBW= 3MHz

6.8 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
WCDMA V	826.40	4132	H	V	108.54	22.15	-7.87	3.62	10.65	38.45
				H	114.48	28.21	-7.87	3.62	16.71	38.45
			E1	V	109.74	23.35	-7.87	3.62	11.85	38.45
				H	110.46	24.19	-7.87	3.62	12.69	38.45
			E2	V	105.16	18.77	-7.87	3.62	7.27	38.45
				H	112.59	26.32	-7.87	3.62	14.82	38.45
	836.60	4180	H	V	109.68	23.43	-7.88	3.65	11.90	38.45
				H	115.52	29.29	-7.88	3.65	17.76	38.45
			E1	V	111.89	25.64	-7.88	3.65	14.11	38.45
				H	106.46	20.23	-7.88	3.65	8.70	38.45
			E2	V	106.52	20.27	-7.88	3.65	8.74	38.45
				H	114.31	28.08	-7.88	3.65	16.55	38.45
	846.60	4233	H	V	109.35	23.23	-7.88	3.68	11.67	38.45
				H	113.35	27.16	-7.88	3.68	15.60	38.45
			E1	V	111.92	25.80	-7.88	3.68	14.24	38.45
				H	106.07	19.88	-7.88	3.68	8.32	38.45
			E2	V	105.23	19.11	-7.88	3.68	7.55	38.45
				H	111.87	25.68	-7.88	3.68	14.12	38.45

Remark：

(1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=100 KHz, VBW=300KHz,

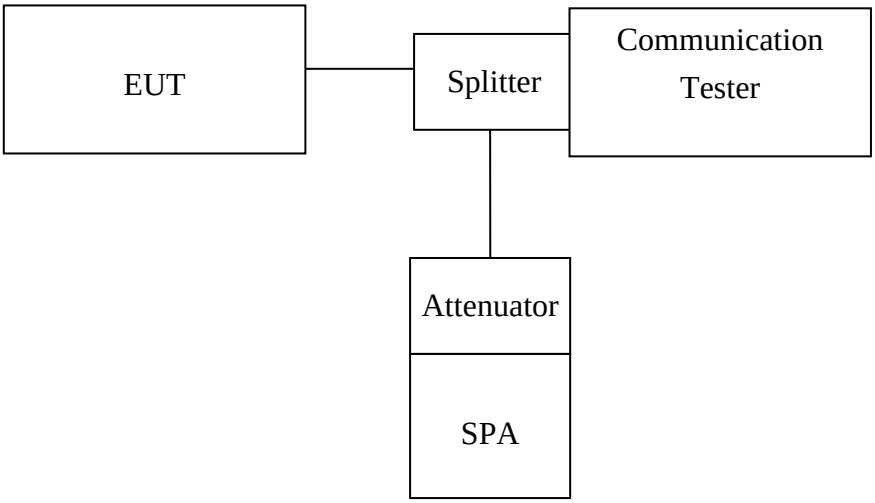
Above 1GHz was RBW= 1MHz , VBW= 3MHz

7. 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §FCC 2.1049.

7.2 Test Set-up:



Note: *Measurement setup for testing on Antenna connector*

7.3 Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10/47KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/150KHz), -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

7.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2006	10/06/2007
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008

7.5 Measurement Result:.

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2480
	836.60	190	0.2487
	848.80	251	0.2477

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2441
	1880.00	661	0.2430
	1909.80	810	0.2470

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.1517
	1880.00	9400	4.1491
	1907.60	9538	4.1512

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.1479
	836.60	4180	4.1522
	846.60	4233	4.1583

Figure 7-1: GSM Channel Low

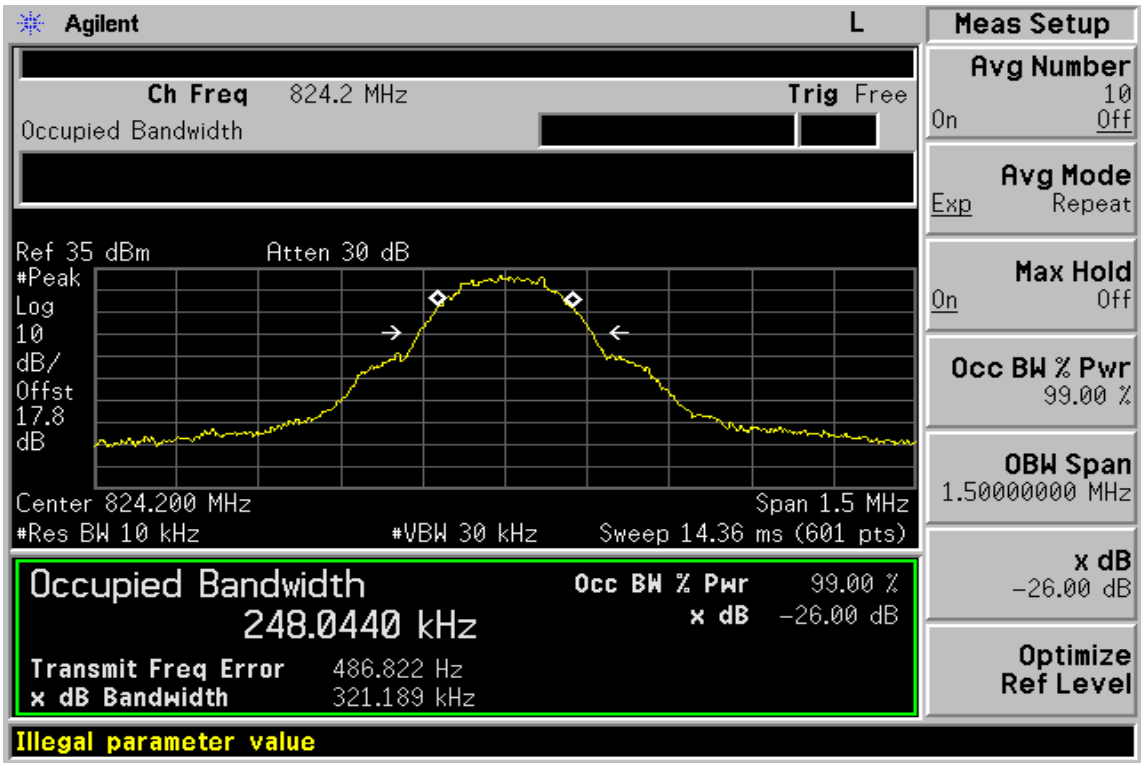


Figure 7-2 GSM Channel Mid

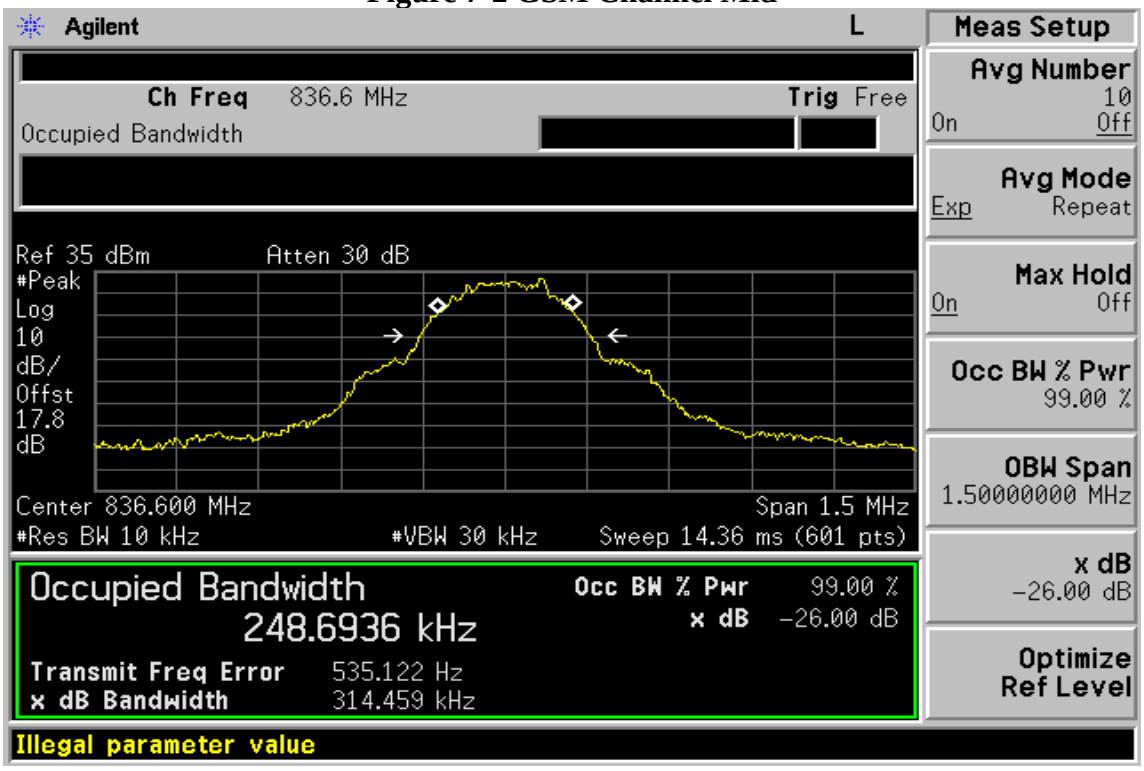


Figure 7-3: GSM Channel High

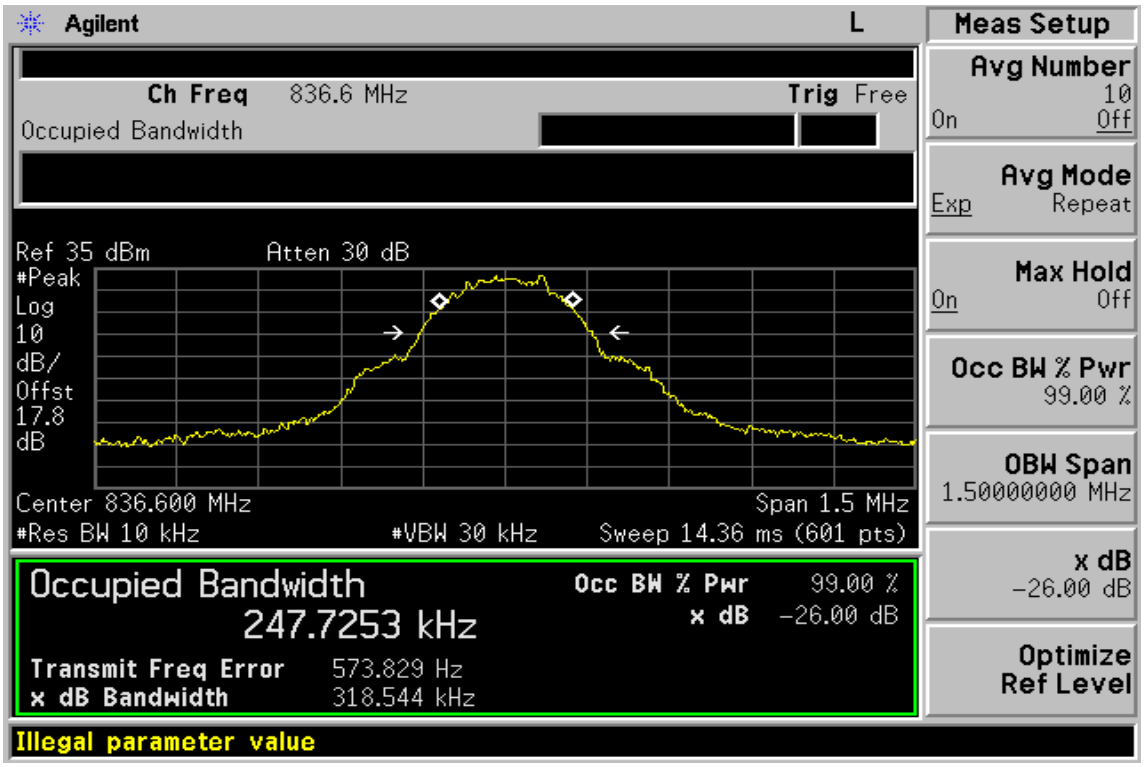


Figure 7-4: PCS Channel Low

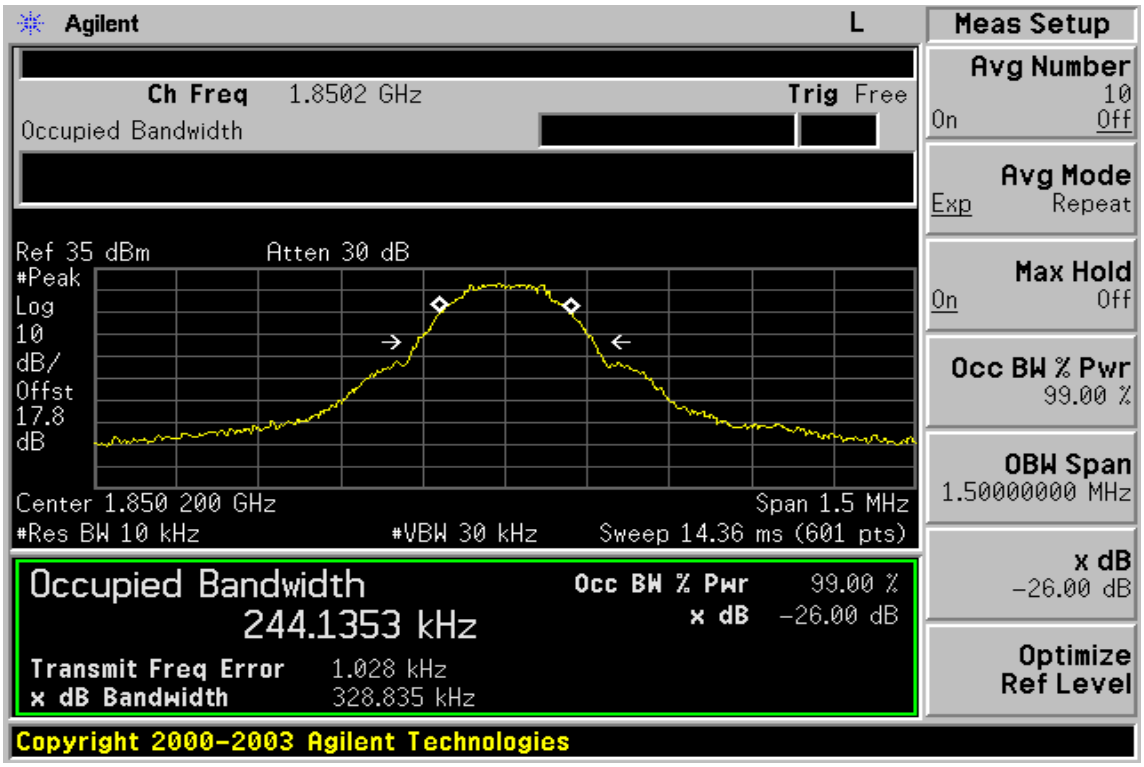


Figure 7-5 PCS Channel Mid

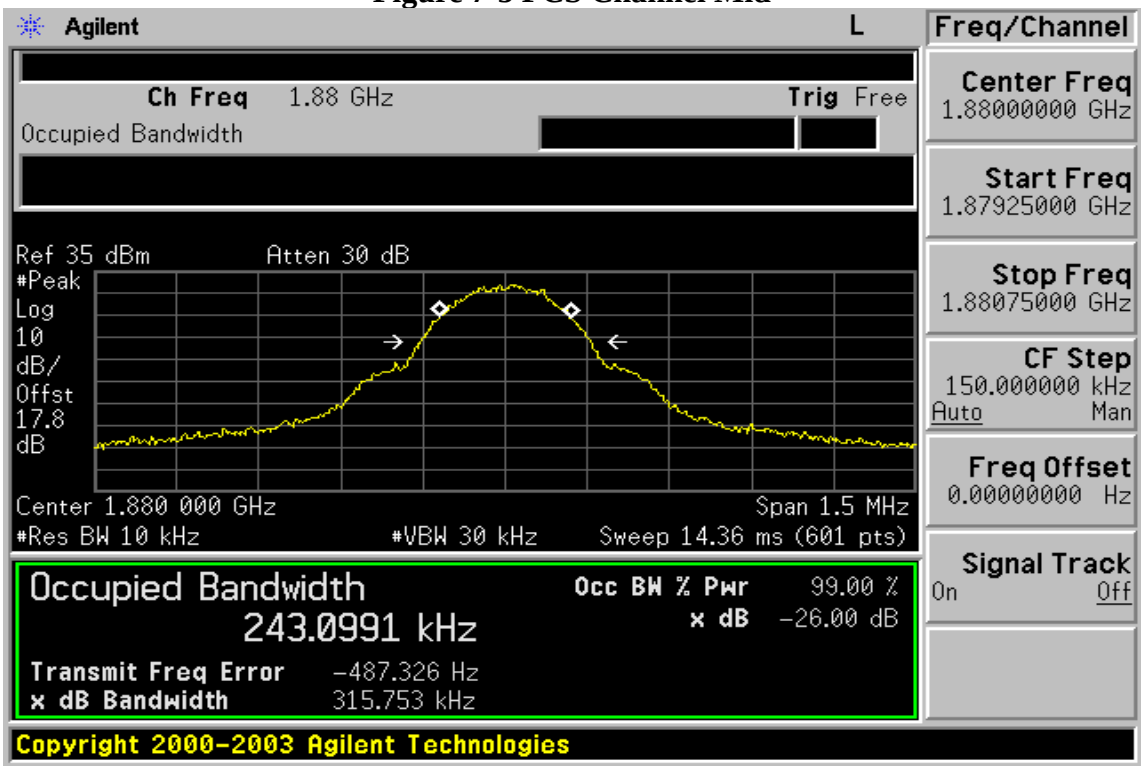


Figure 7-6: PCS Channel High

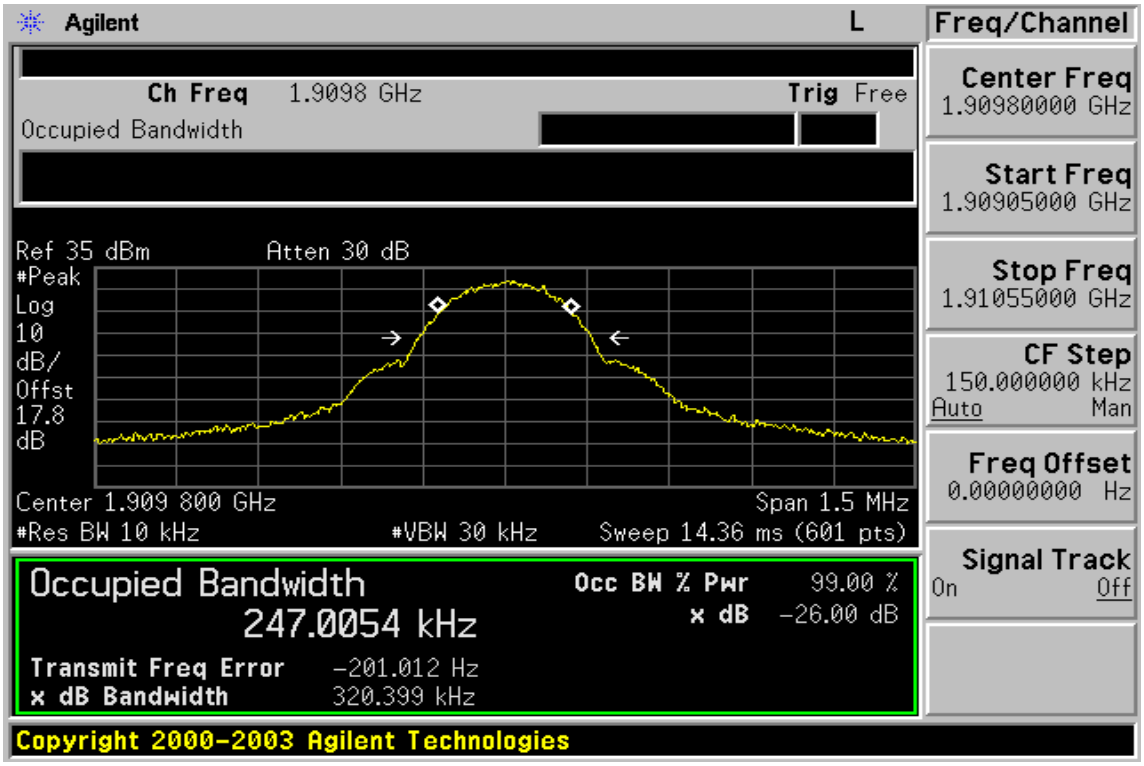


Figure 7-7: WCDMA II Channel Low

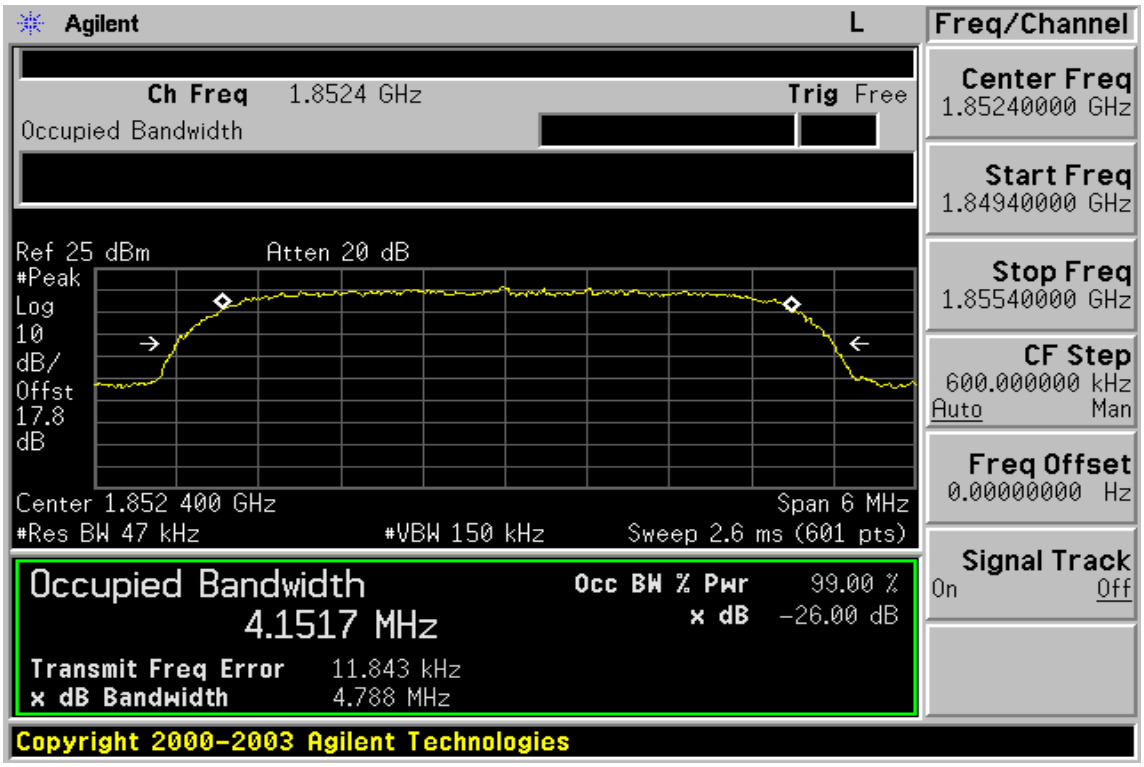


Figure 7-8 WCDMA II Channel Mid

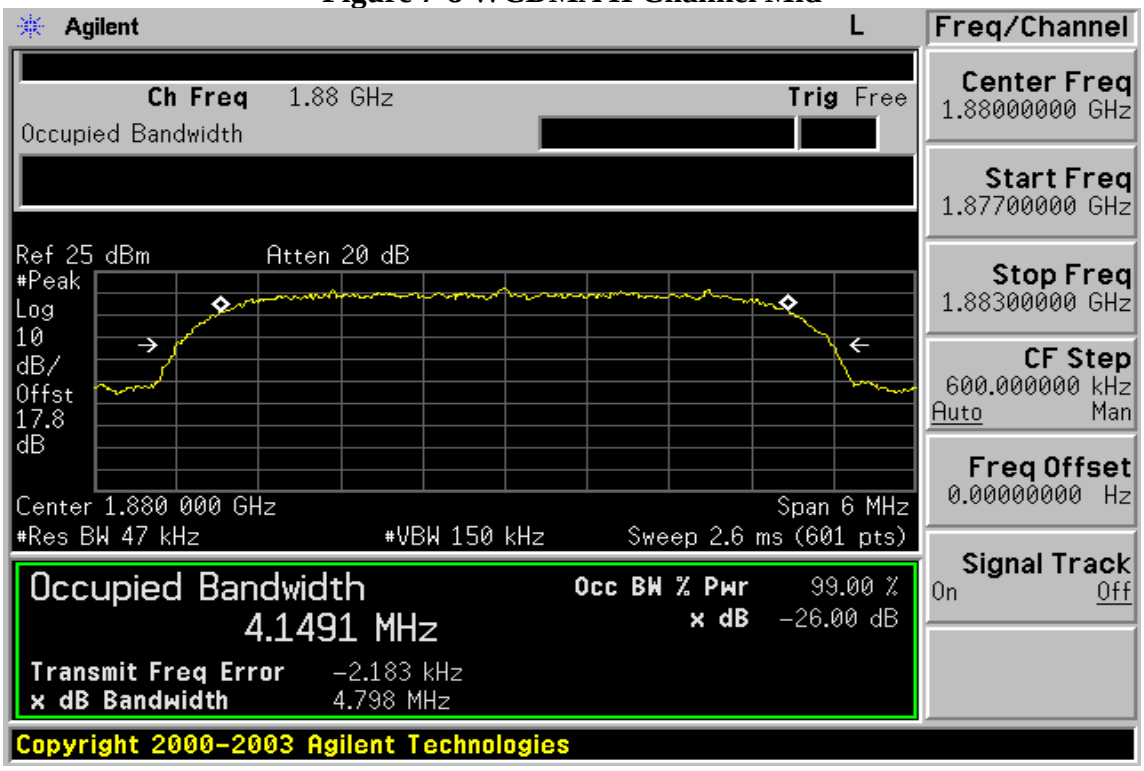


Figure 7-9: WCDMA II Channel High

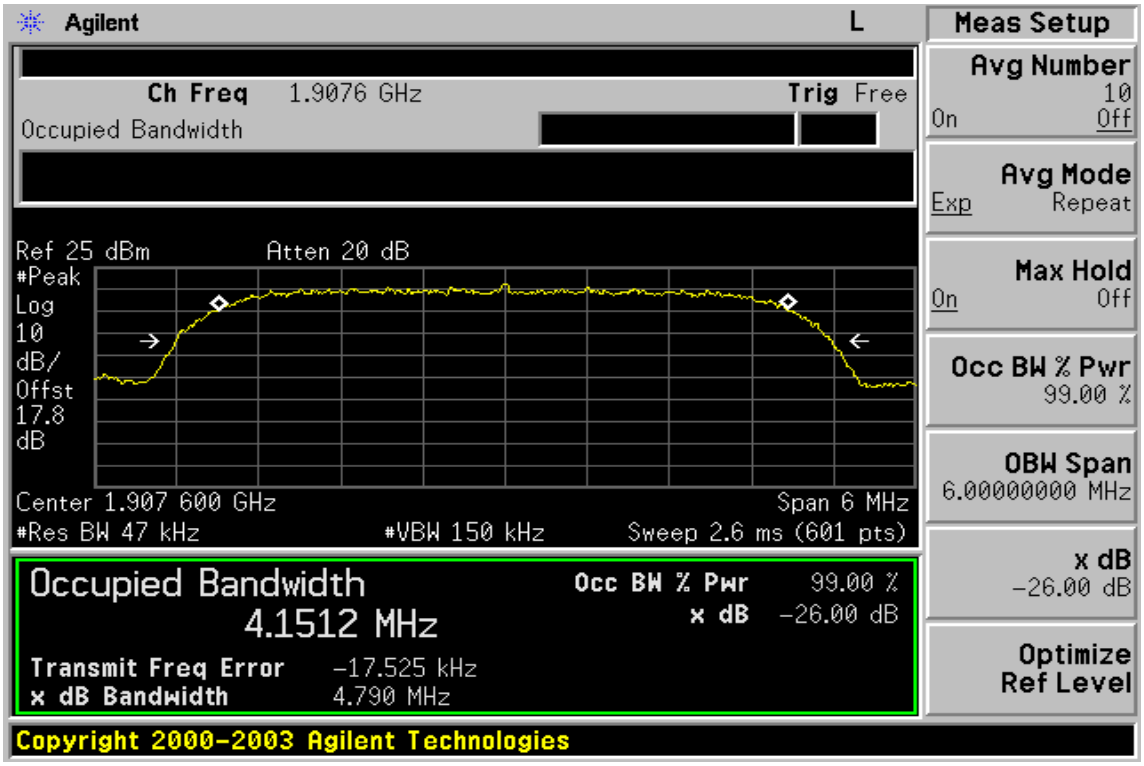


Figure 7-10: WCDMA V Channel Low

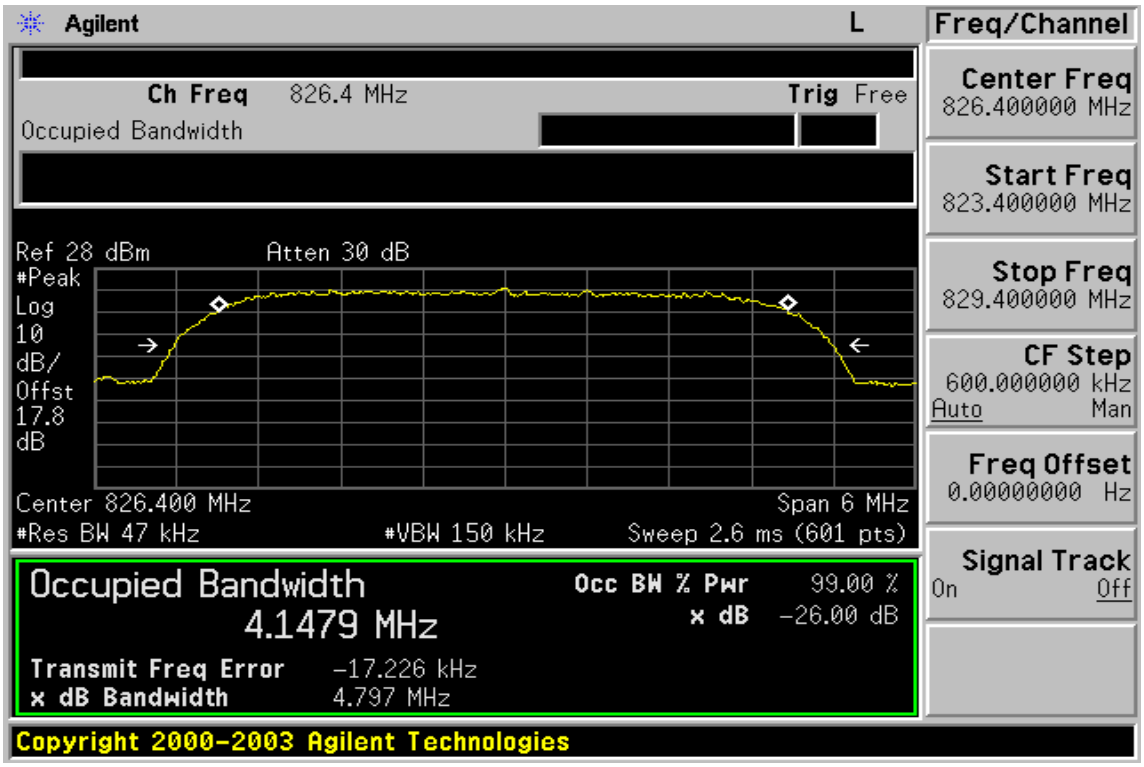


Figure 7-11 WCDMA V Channel Mid

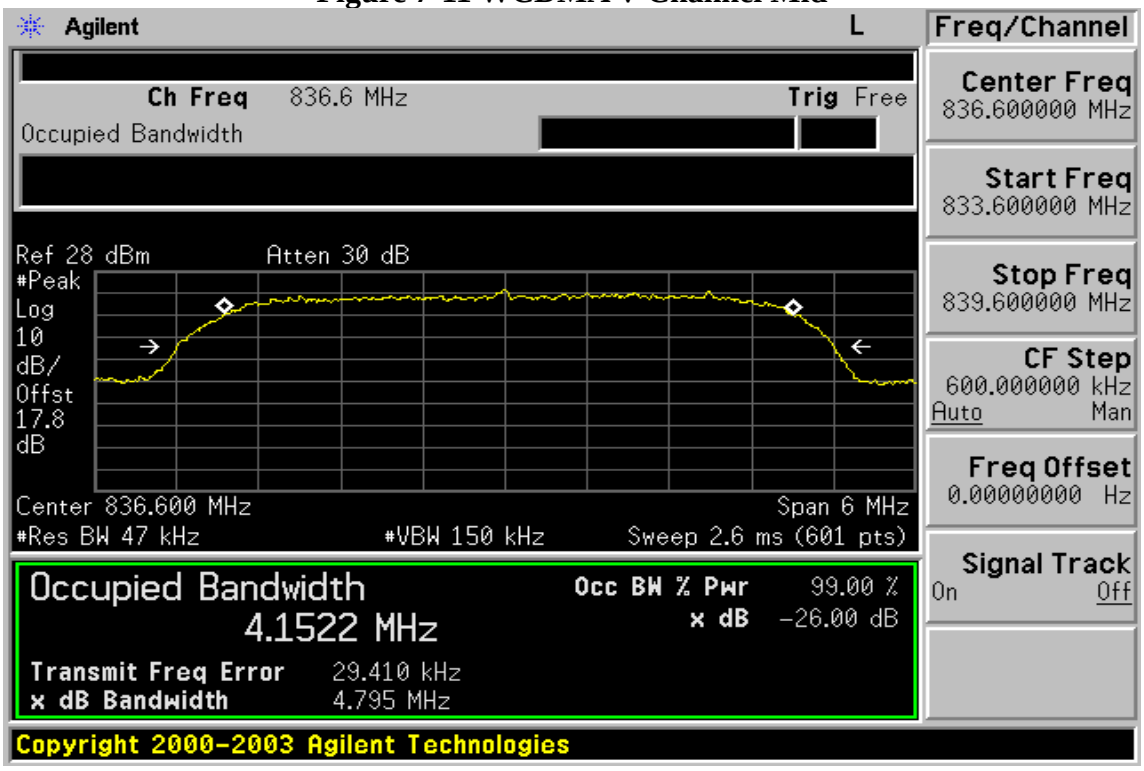
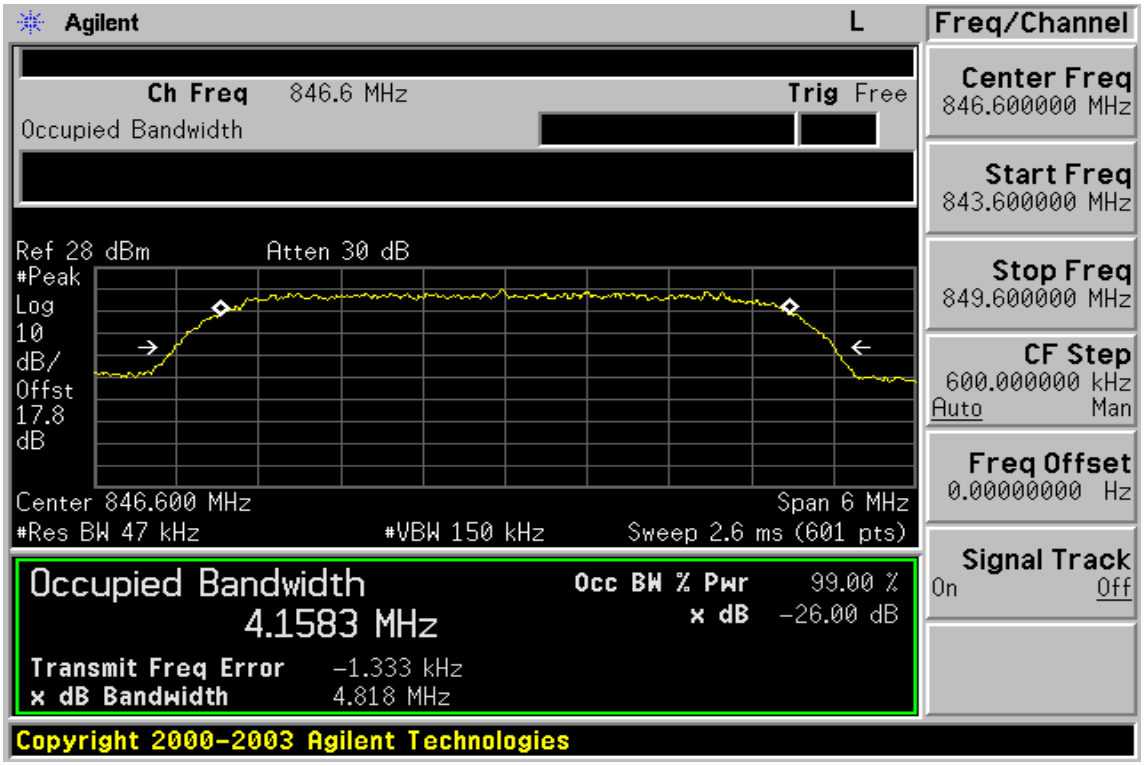


Figure 7-12: WCDMA V Channel High



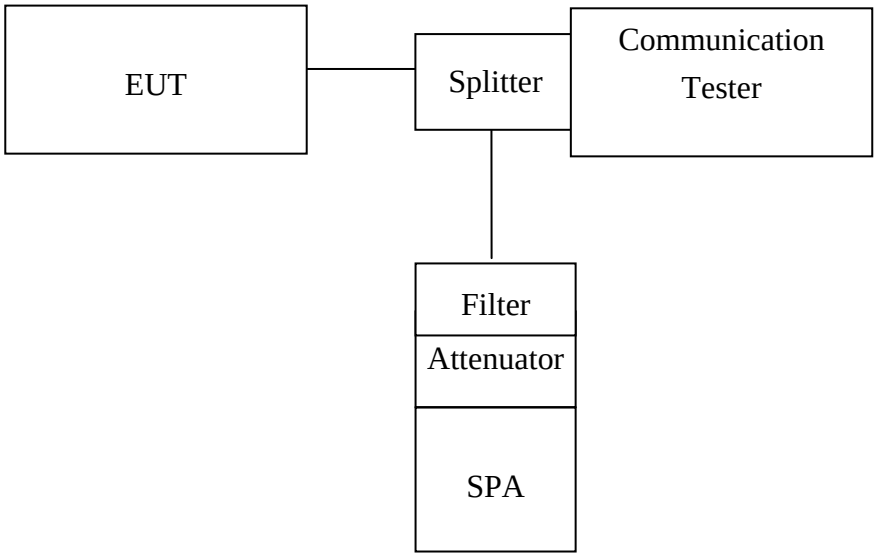
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

According to FCC §2.1051.

FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

8.2 Test SET-UP



Note: *Measurement setup for testing on Antenna connector*

8.3 Measurement Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm

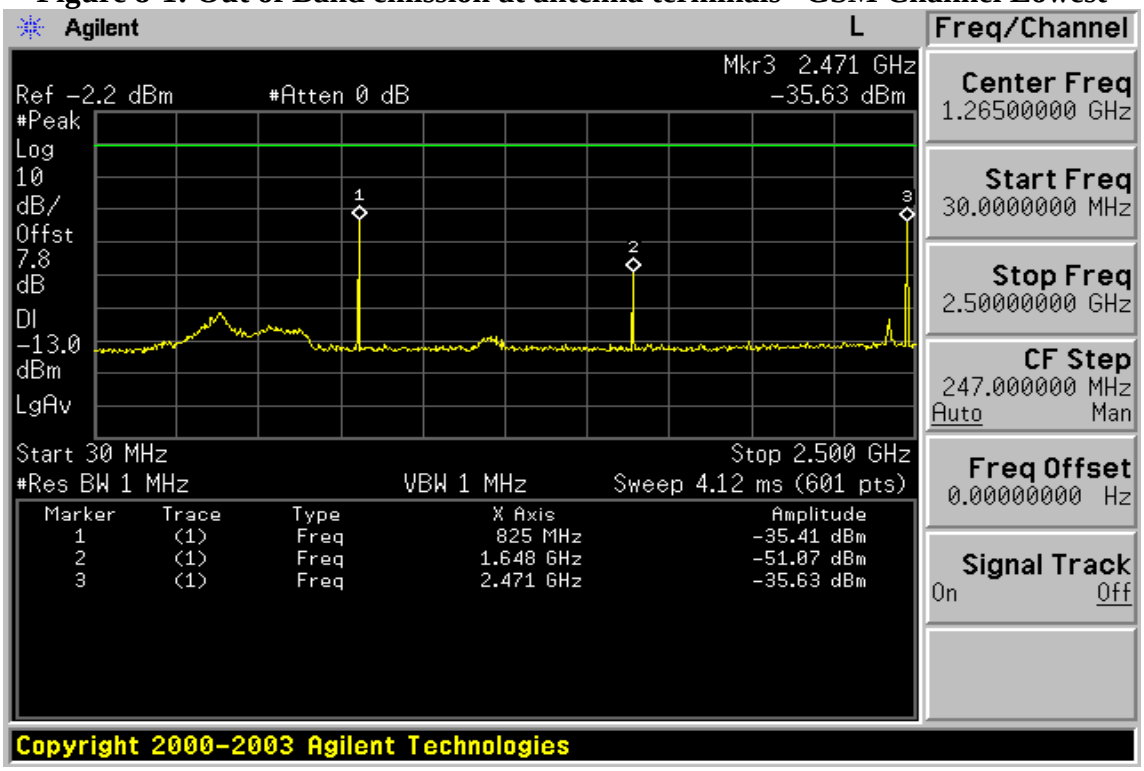
Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

8.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2006	10/06/2007
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008
Band reject filter	Wicro-tronics	BRM13462	001	01/05/2007	1/06/2008

8.5 Measurement Result

Figure 8-1: Out of Band emission at antenna terminals– GSM Channel Lowest



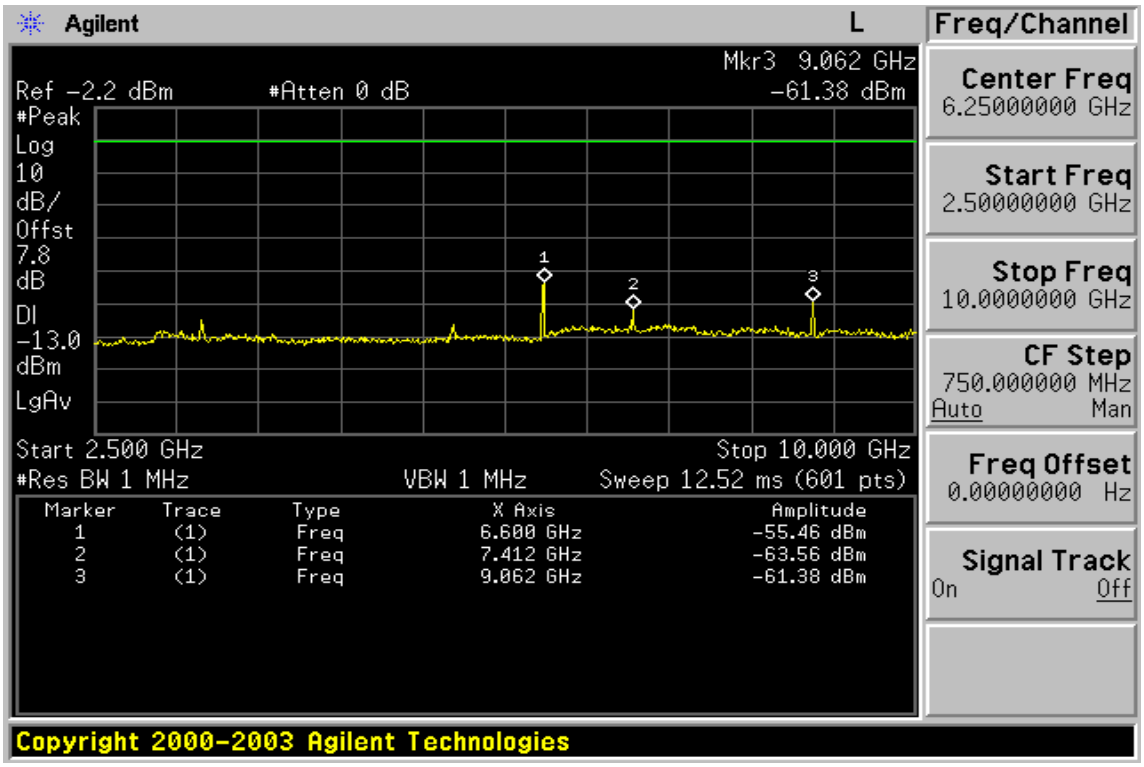
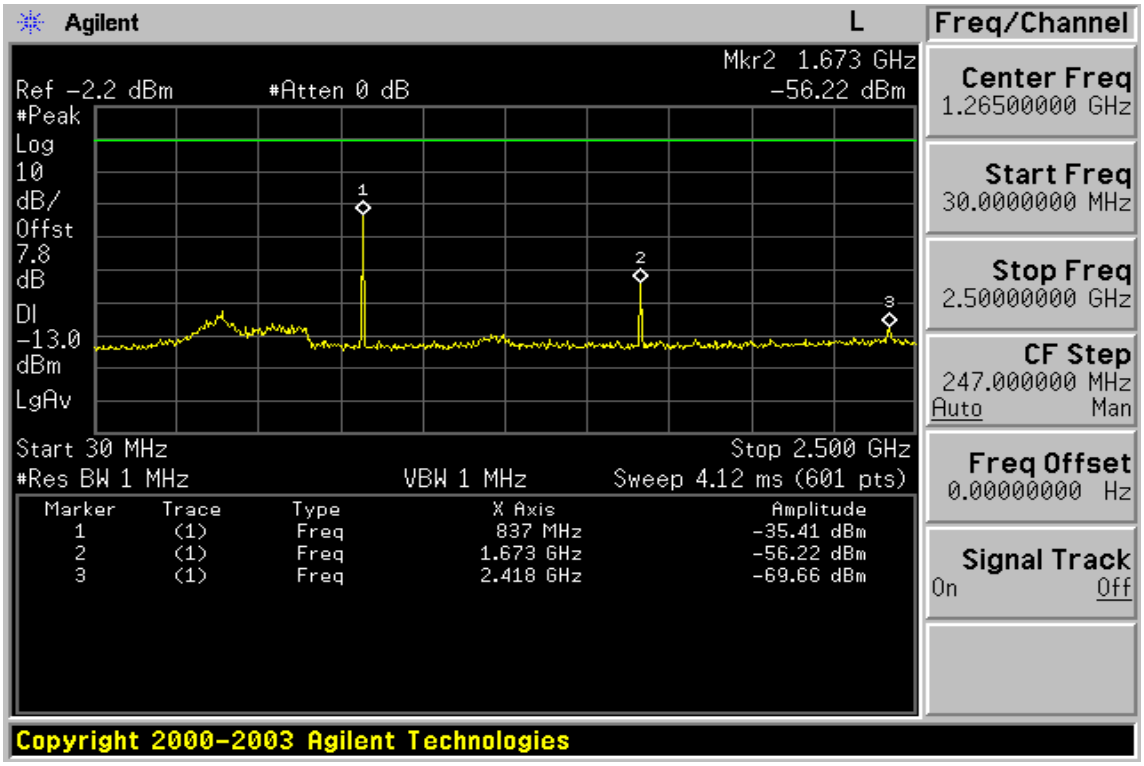


Figure 8-2: Out of Band emission at antenna terminals –GSM Channel Mid



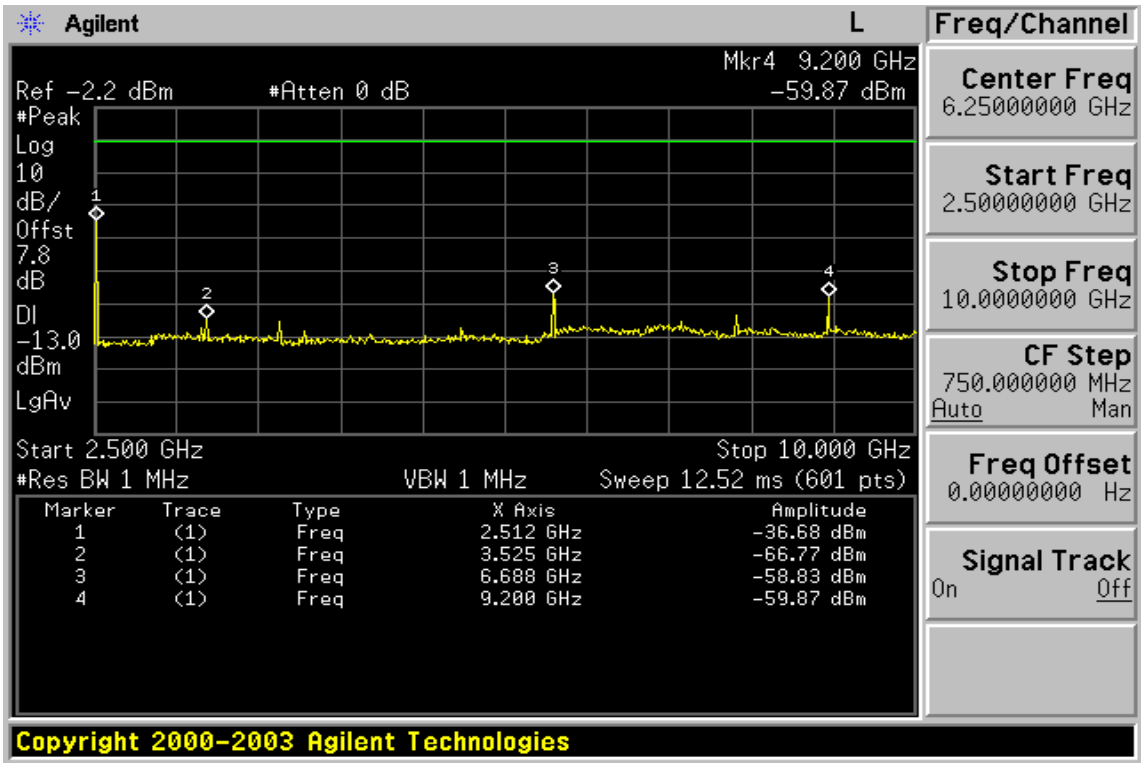
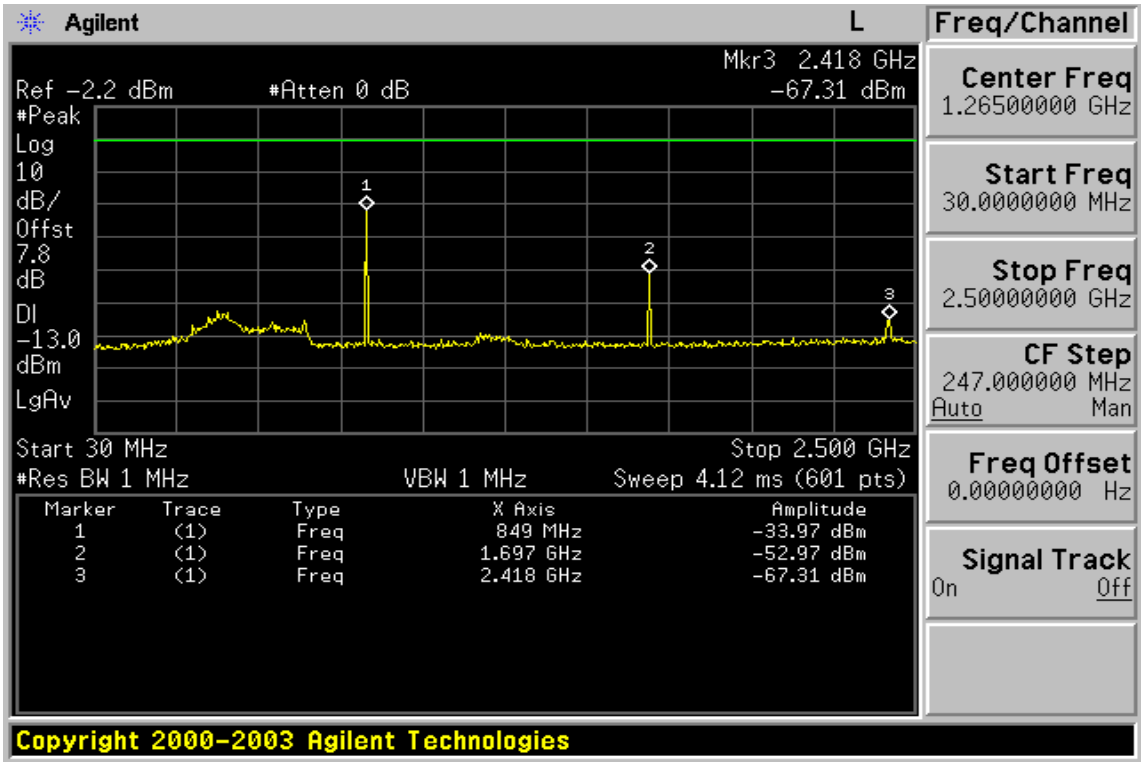


Figure 8-3: Out of Band emission at antenna terminals–GSM Channel Highest



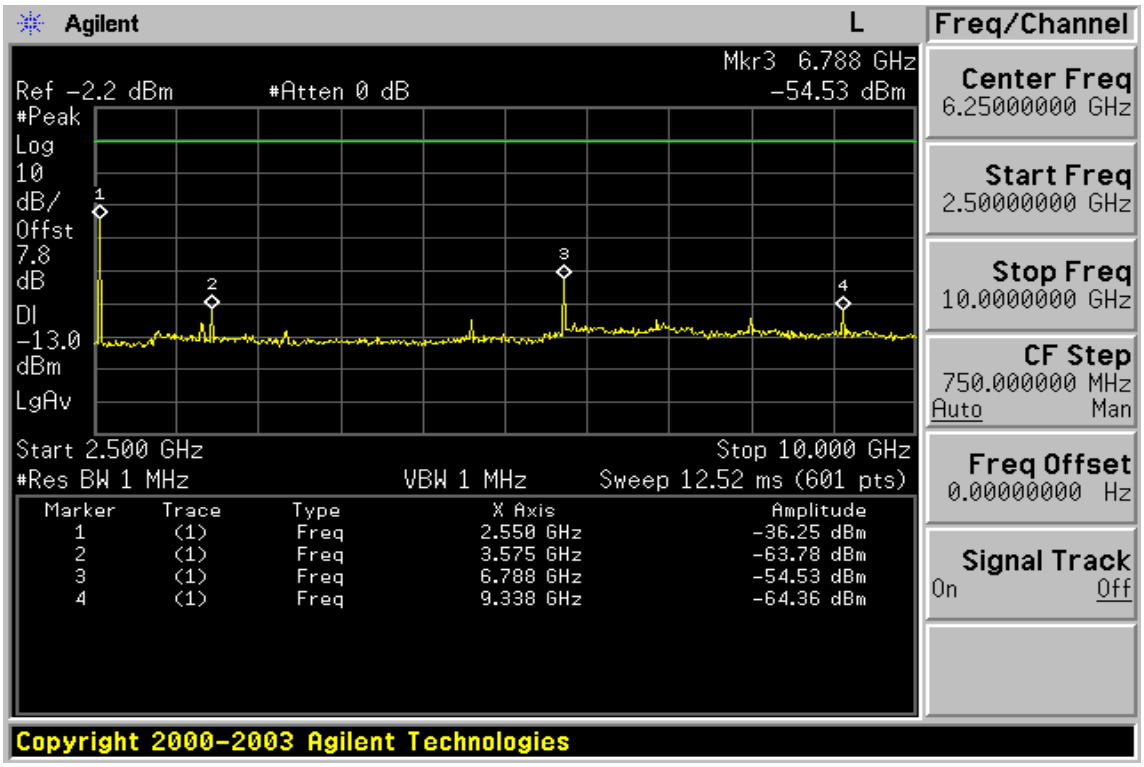


Figure 8-4: Bad edge emission at antenna terminals – GSM Channel Lowest

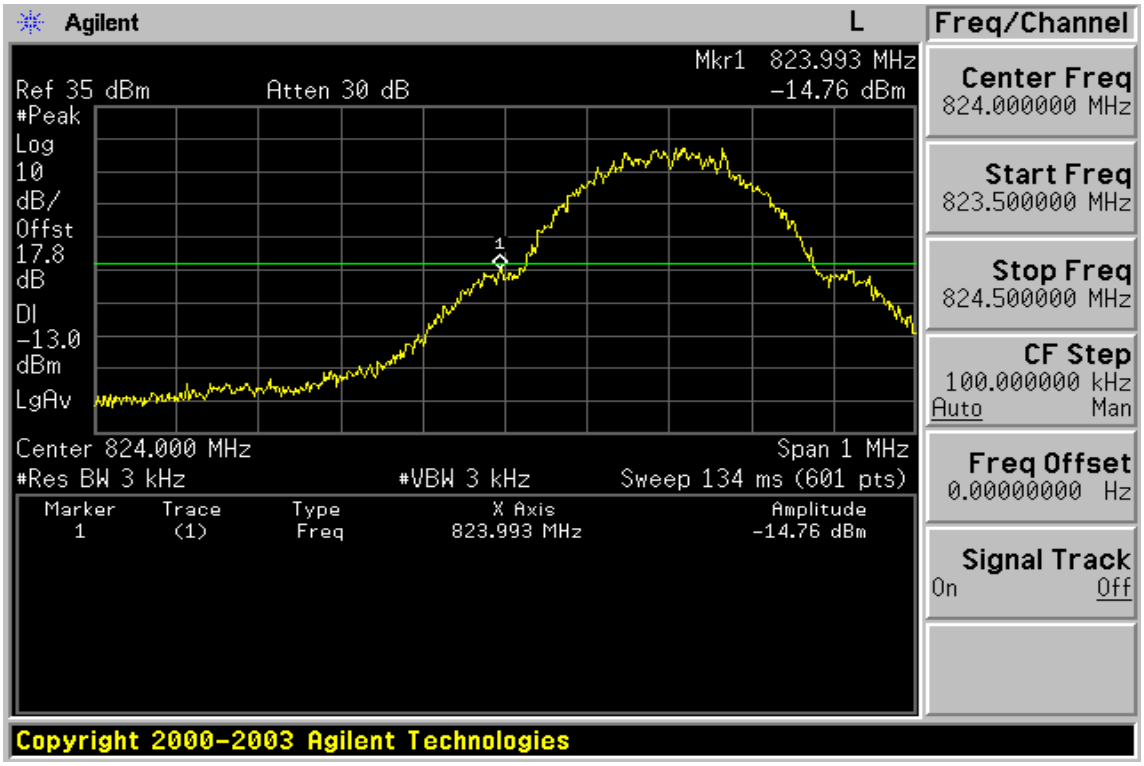


Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest

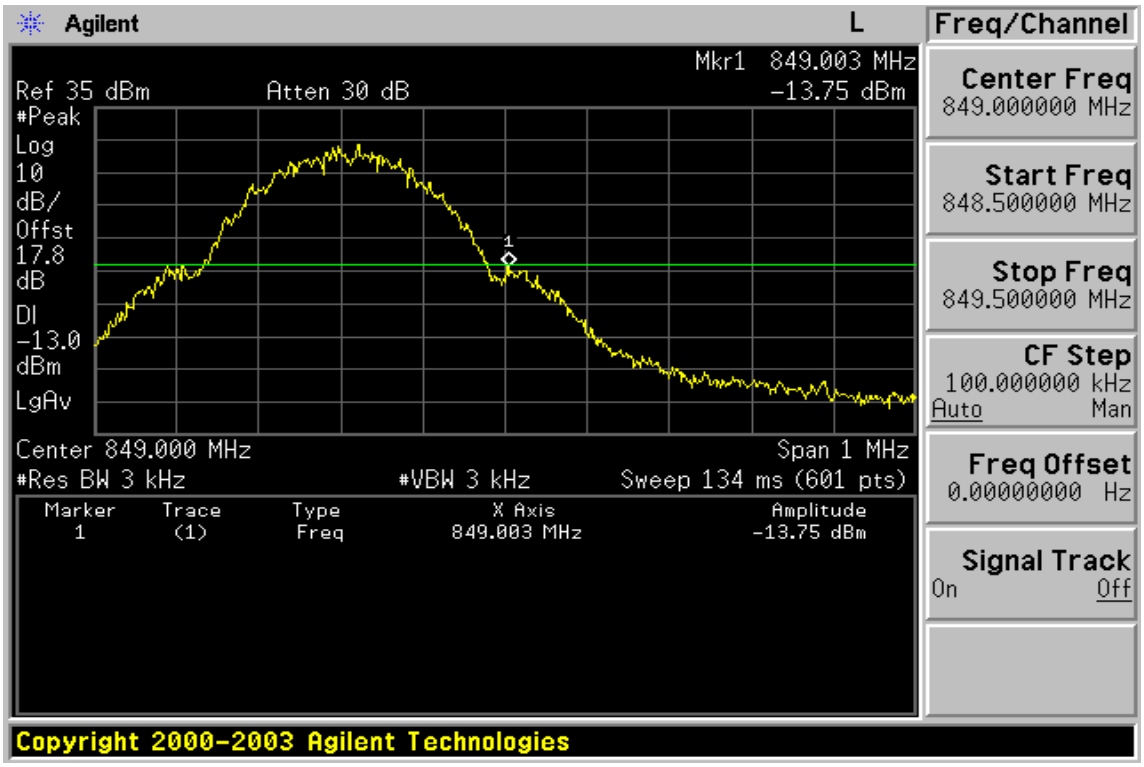
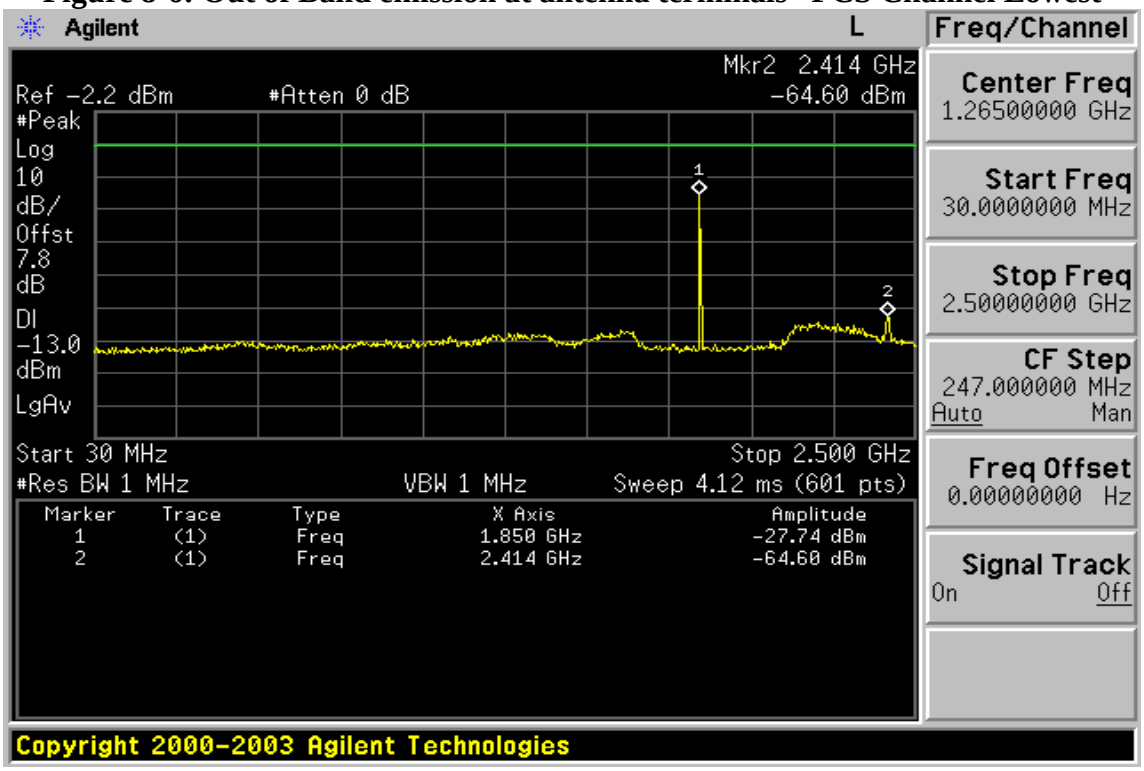


Figure 8-6: Out of Band emission at antenna terminals– PCS Channel Lowest



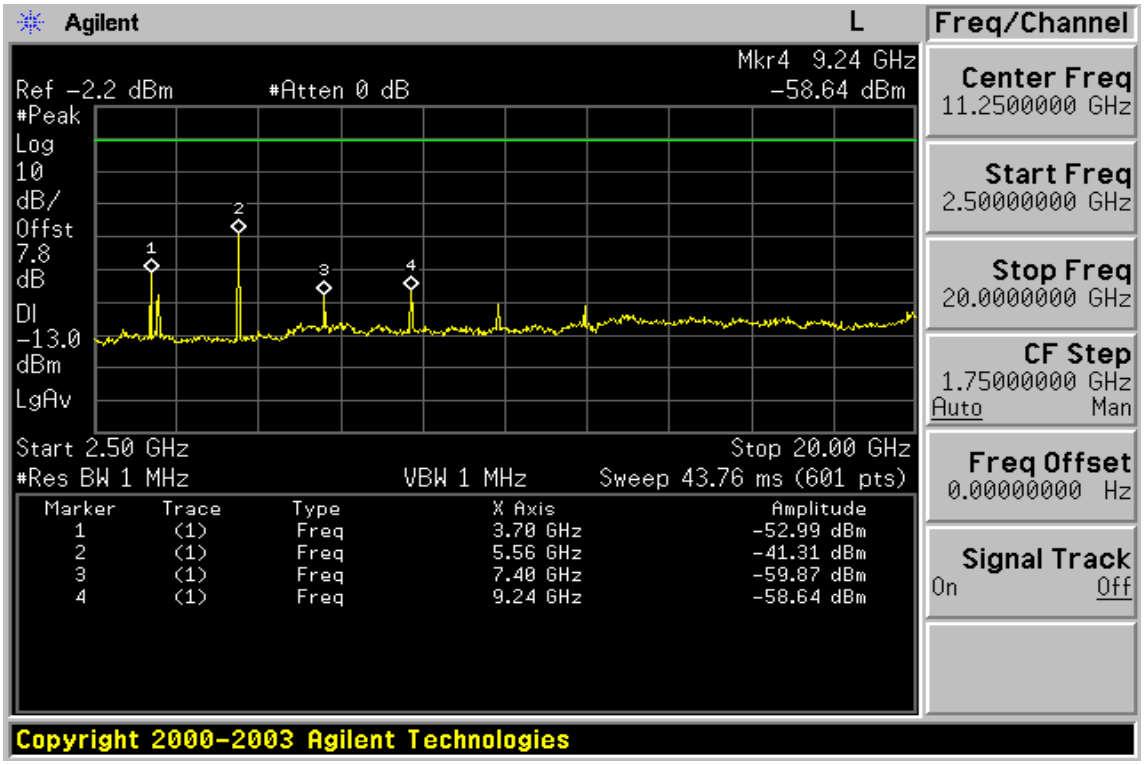
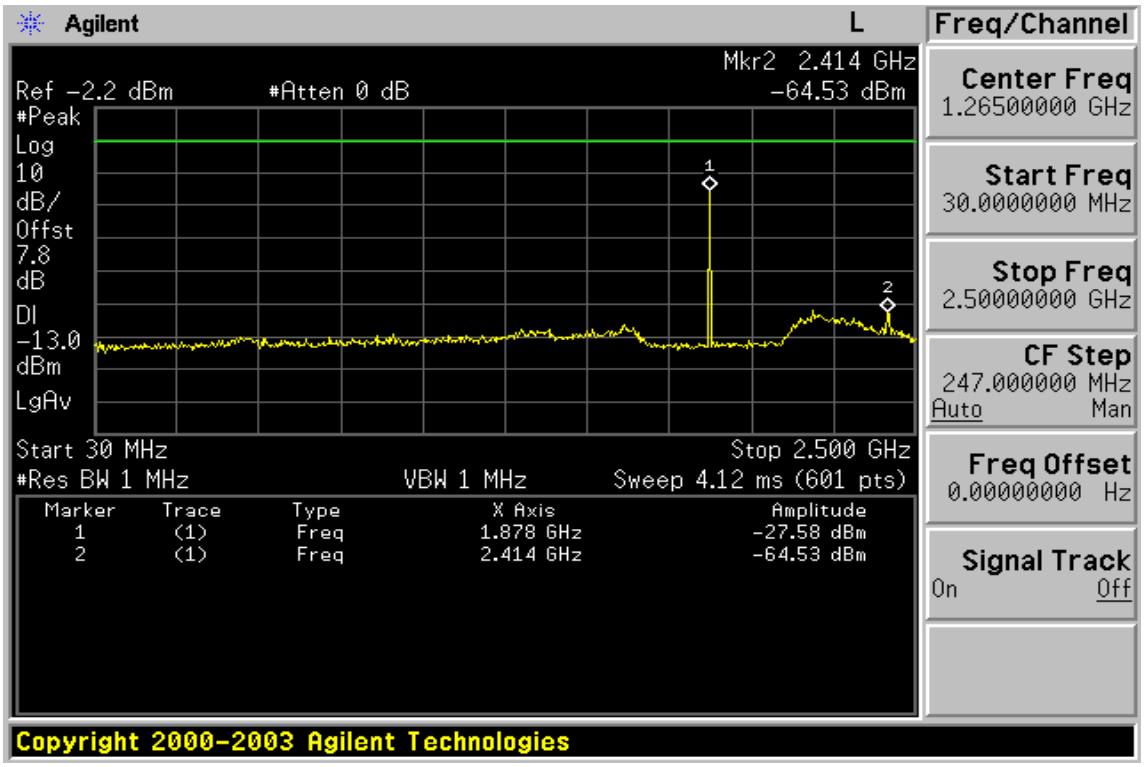


Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid



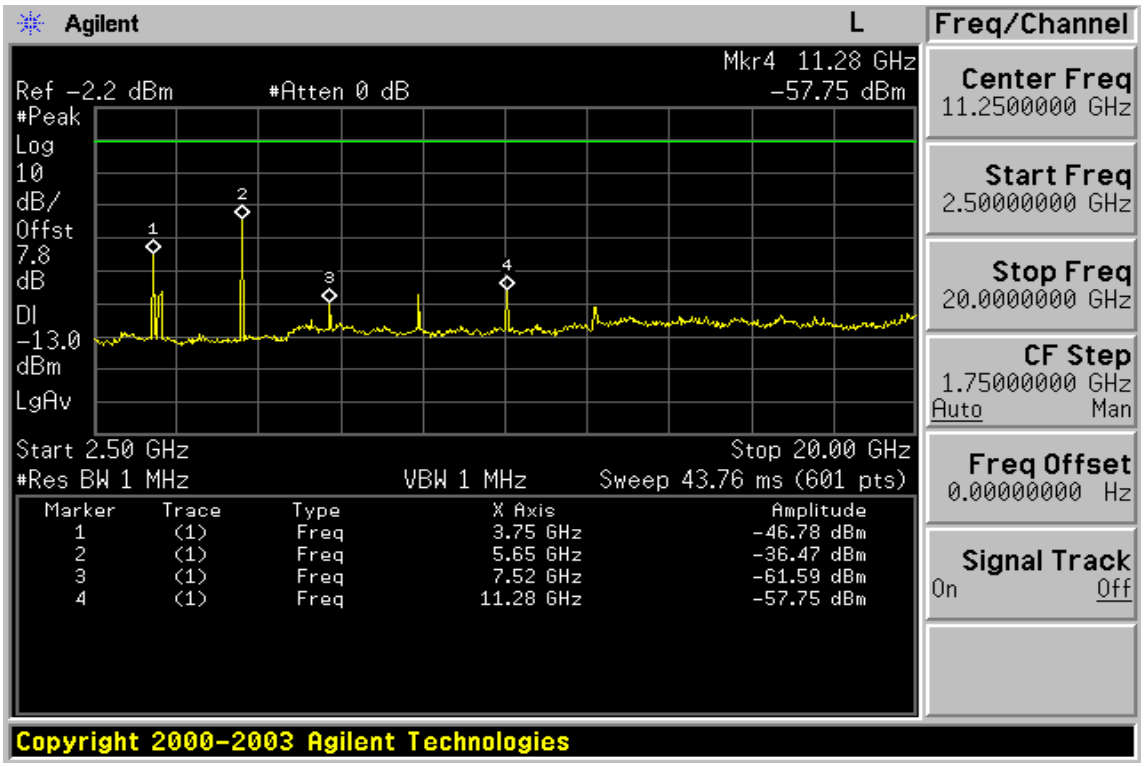
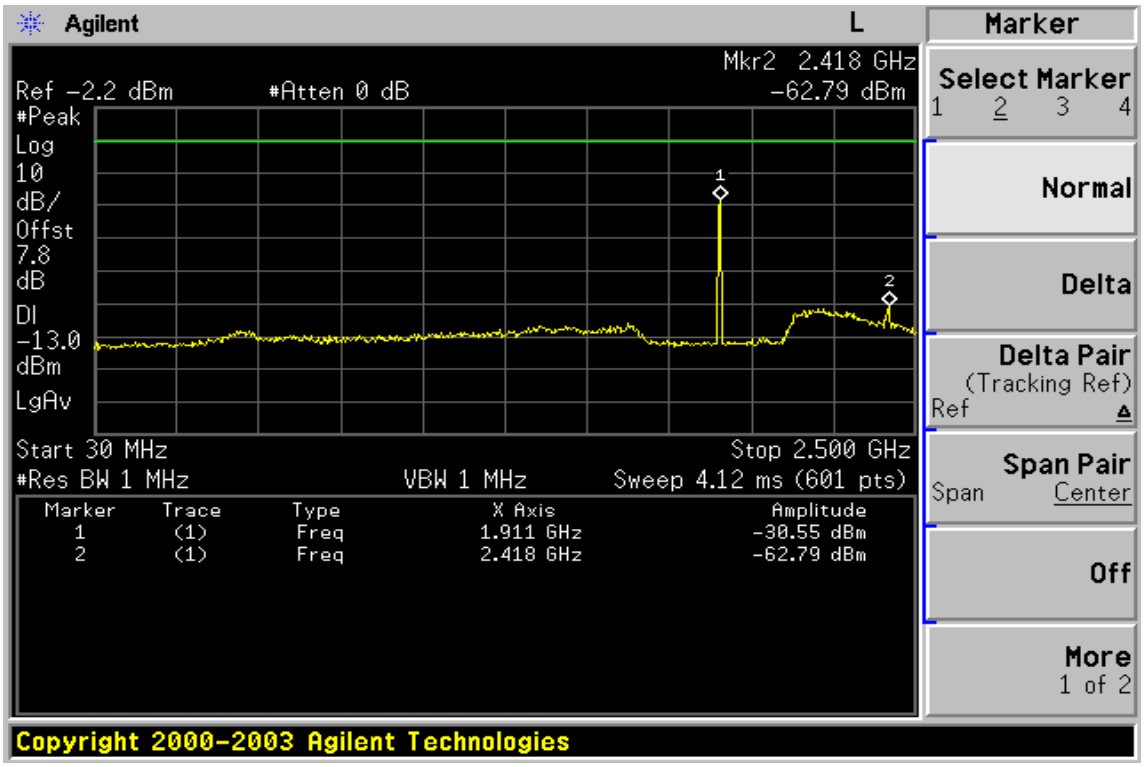


Figure 8-8: Out of Band emission at antenna terminals–PCS Channel Highest



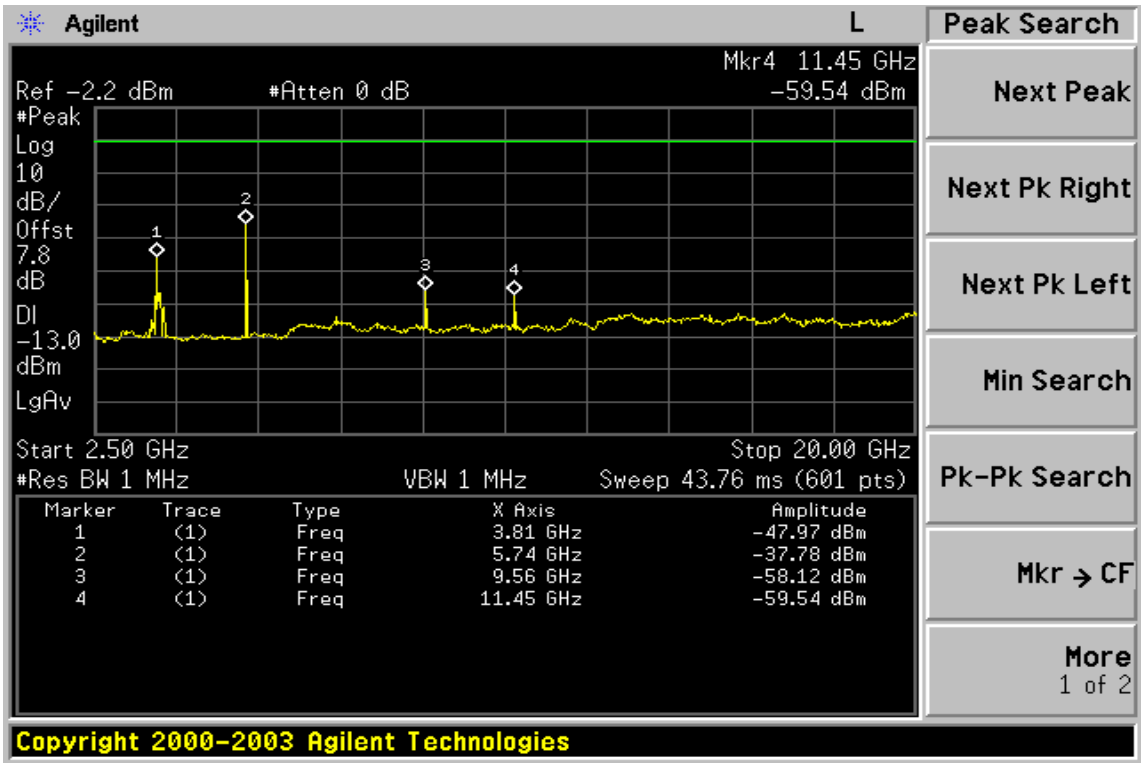


Figure 8-9: Bad edge emission at antenna terminals – PCS Channel Lowest

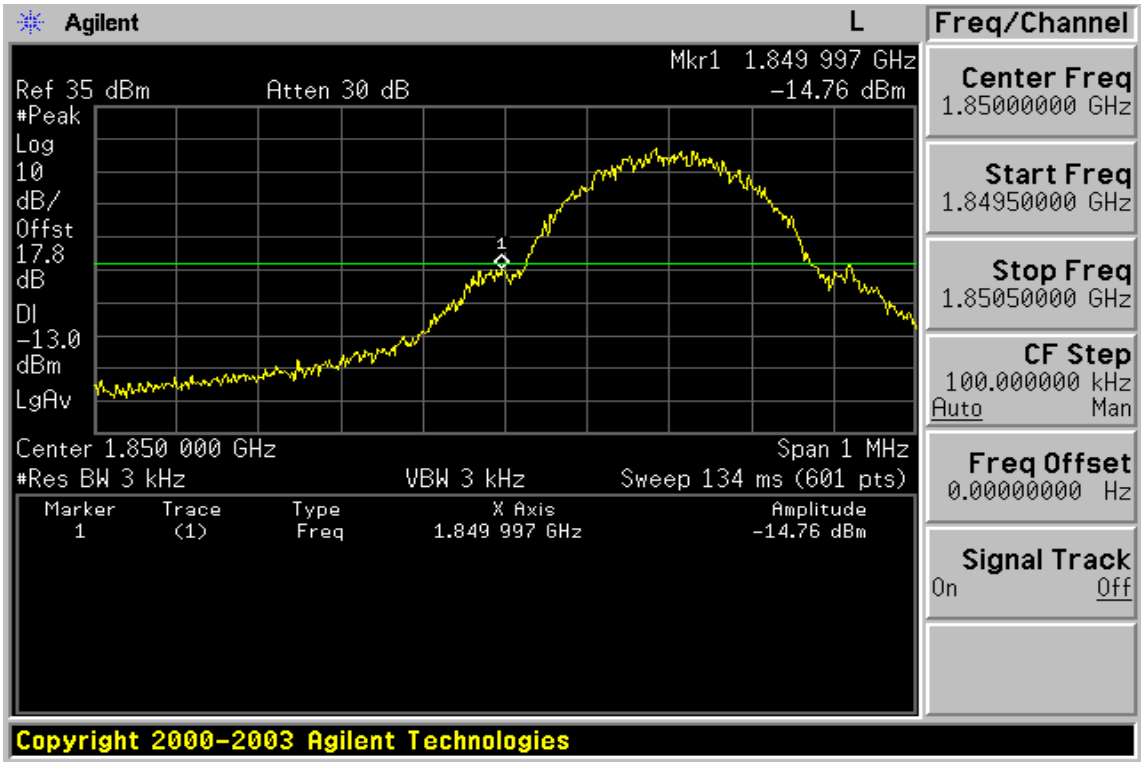


Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest

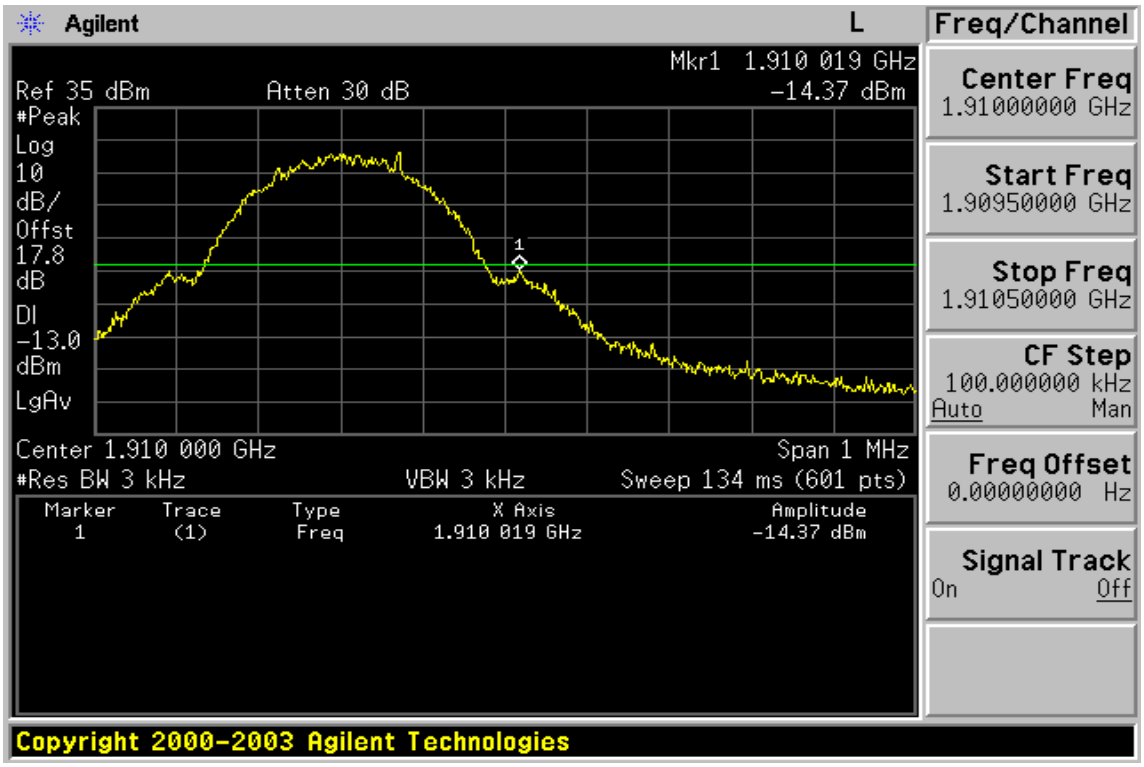
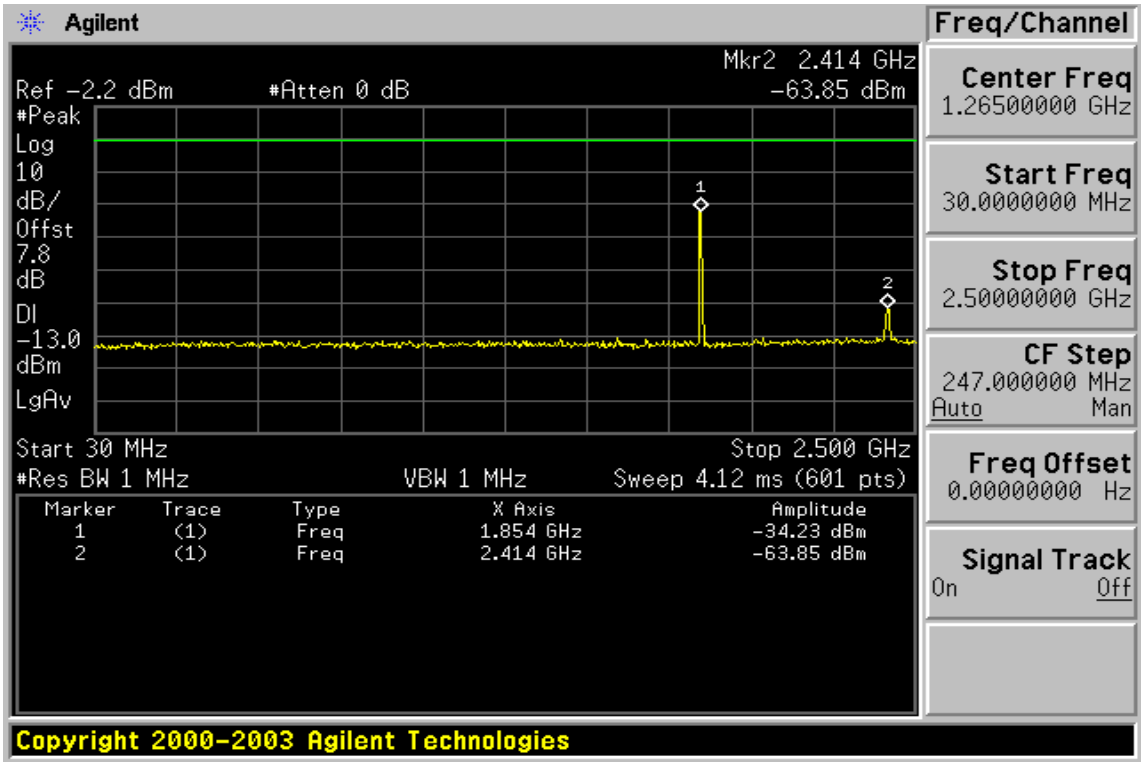


Figure 8-10: Out of Band emission at antenna terminals– WCDMA Band II Channel Lowest



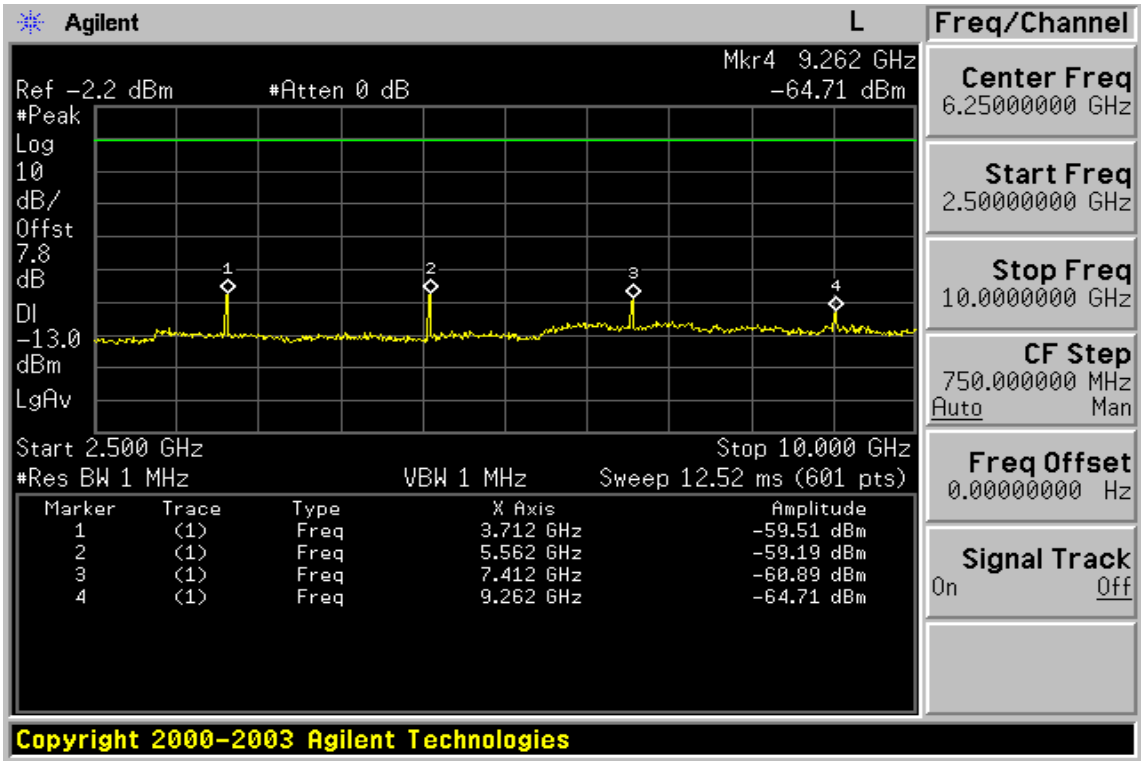
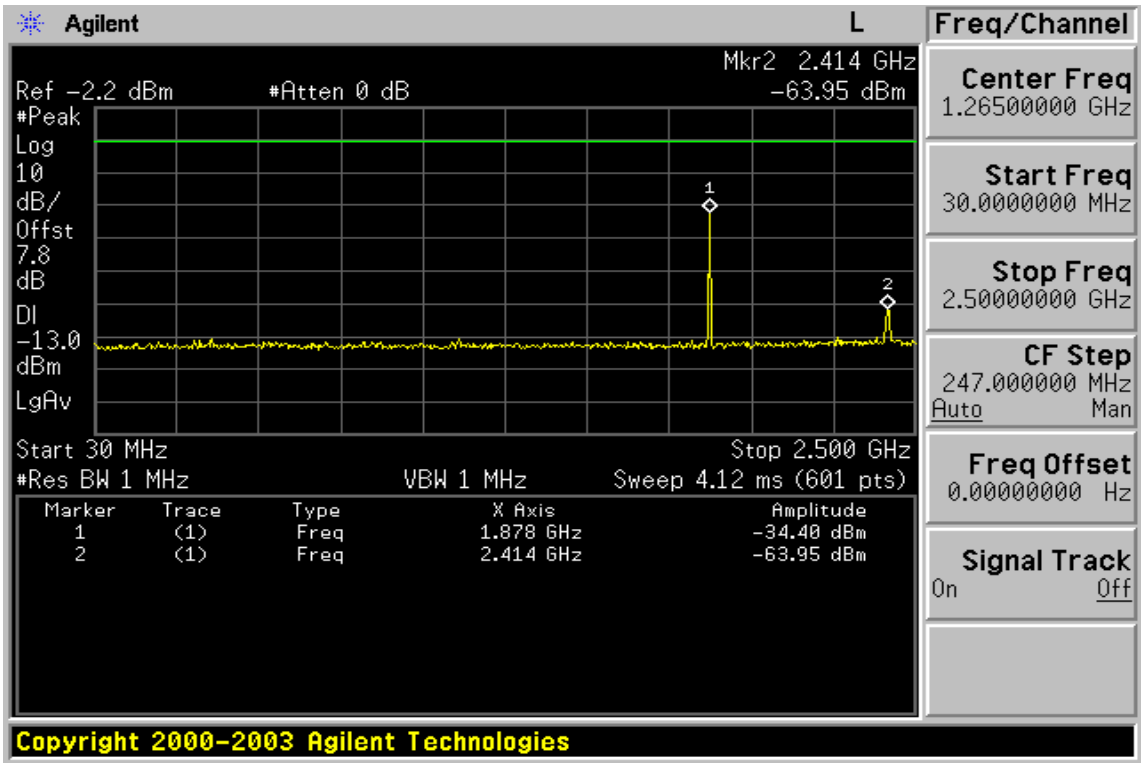


Figure 8-11: Out of Band emission at antenna terminals –WCDMA Band II Channel Mid



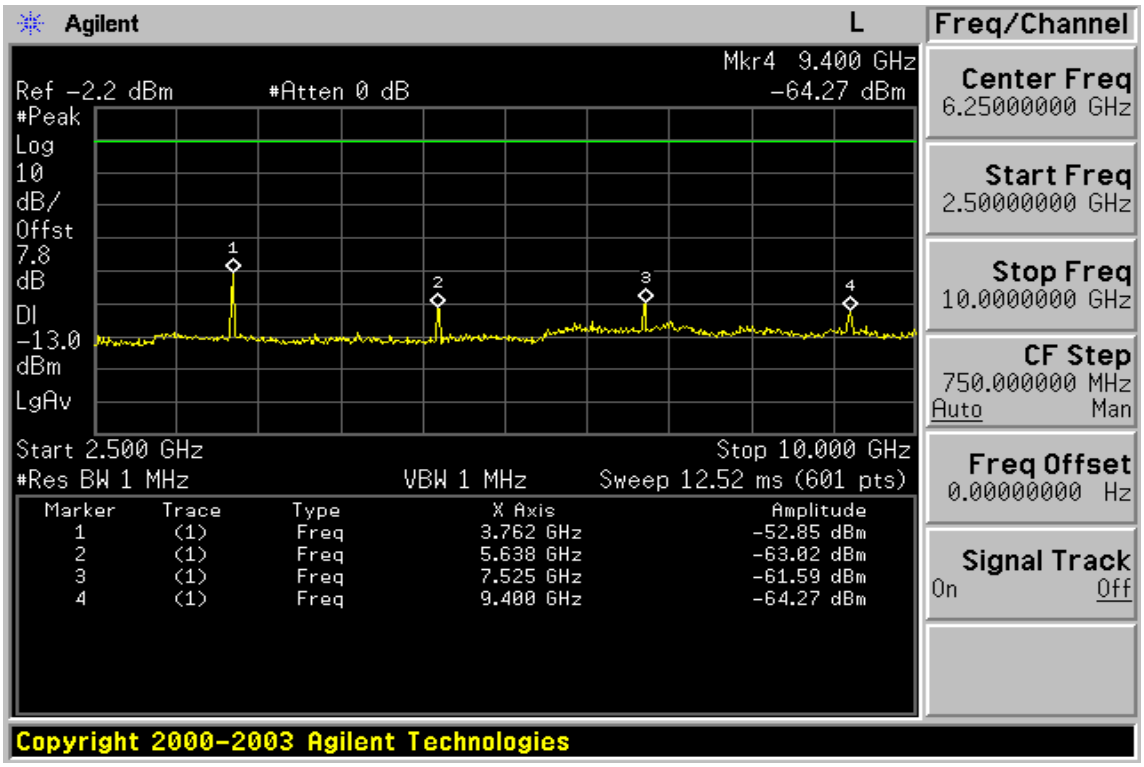
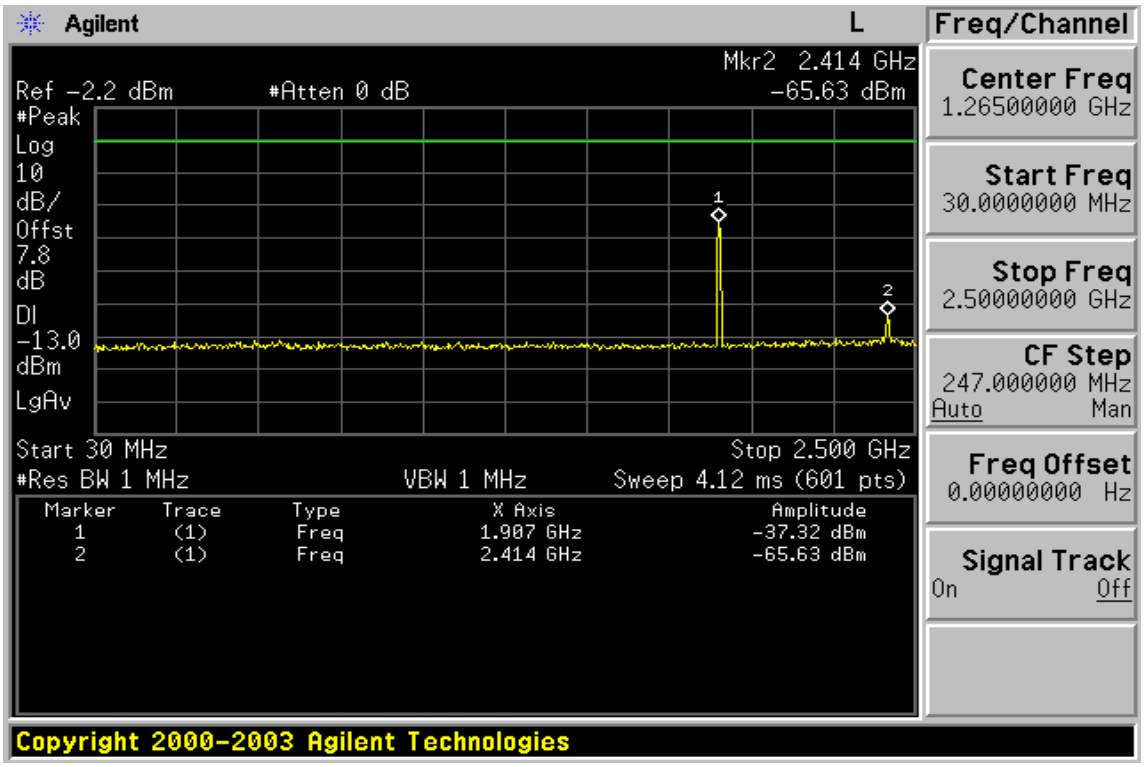


Figure 8-12: Out of Band emission at antenna terminals–WCDMA II Channel Highest



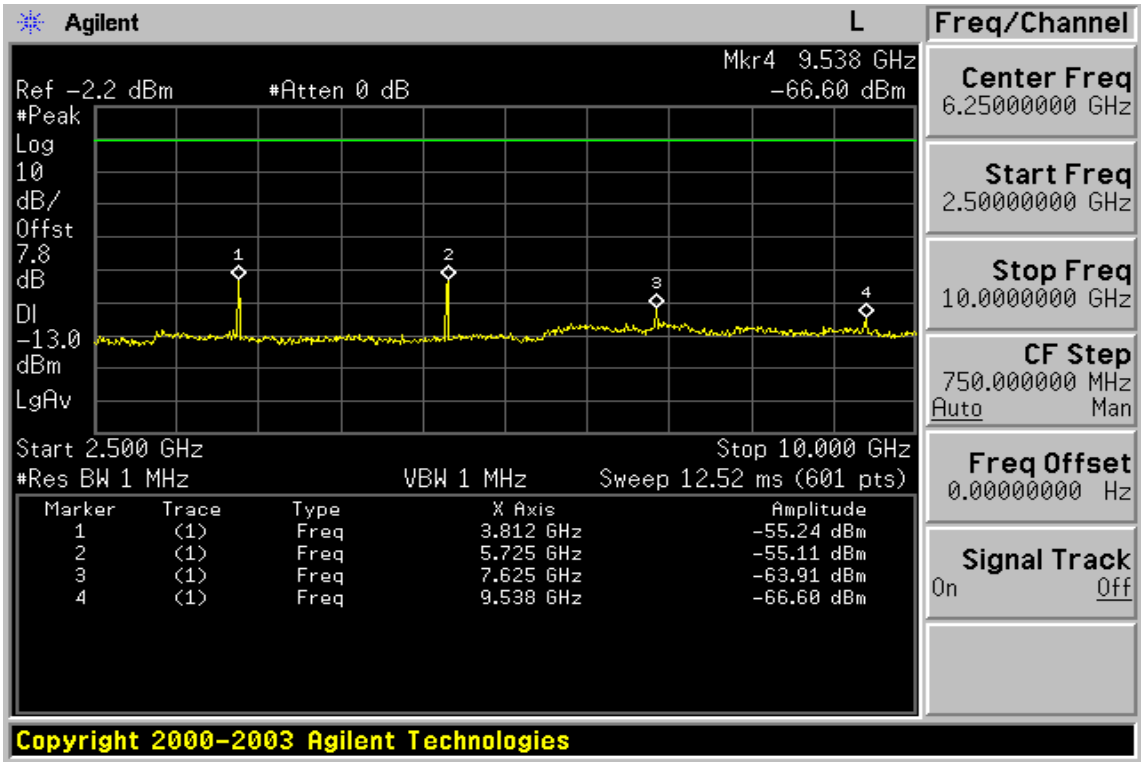


Figure 8-13: Bad edge emission at antenna terminals – WCDMA II Channel Lowest

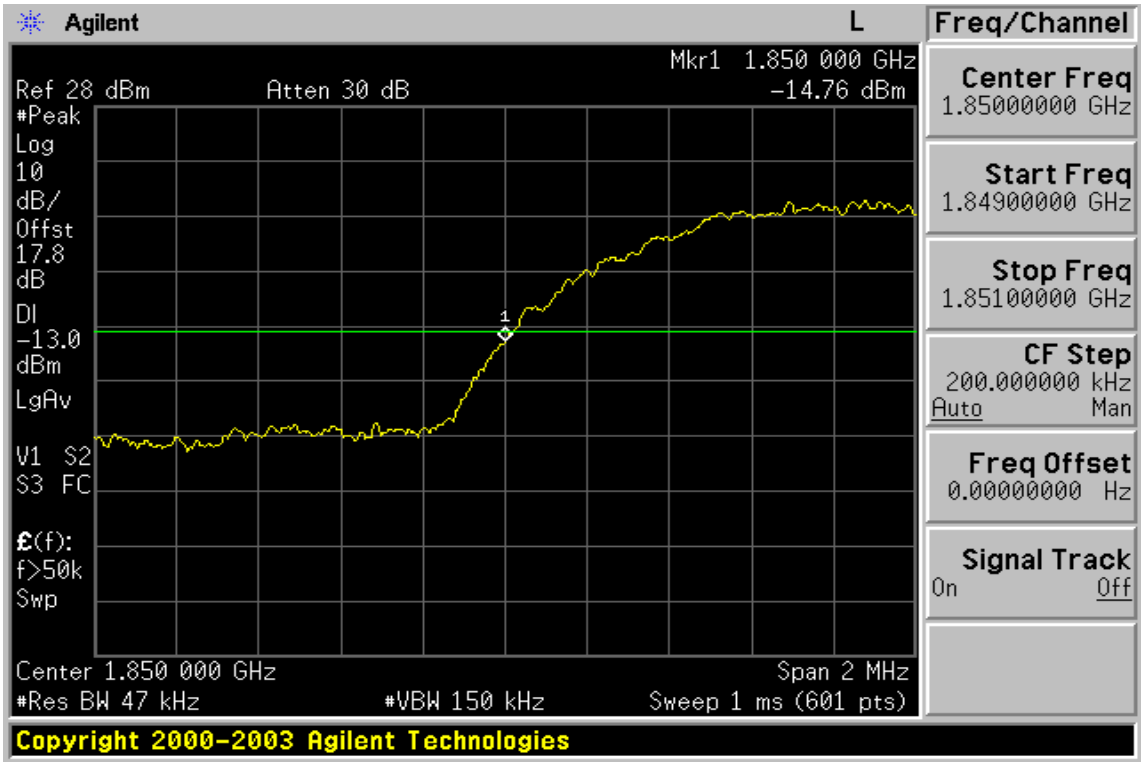


Figure 8-14: Band edge emission at antenna terminals –WCDMA II Channel Highest

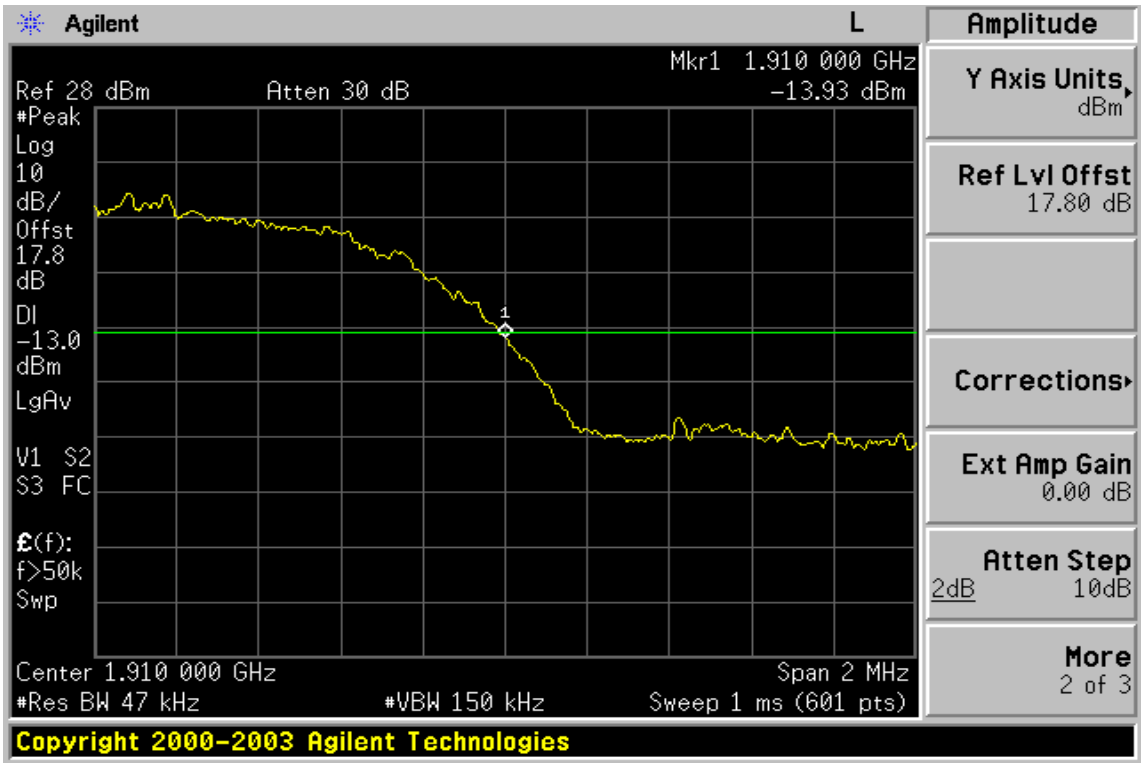
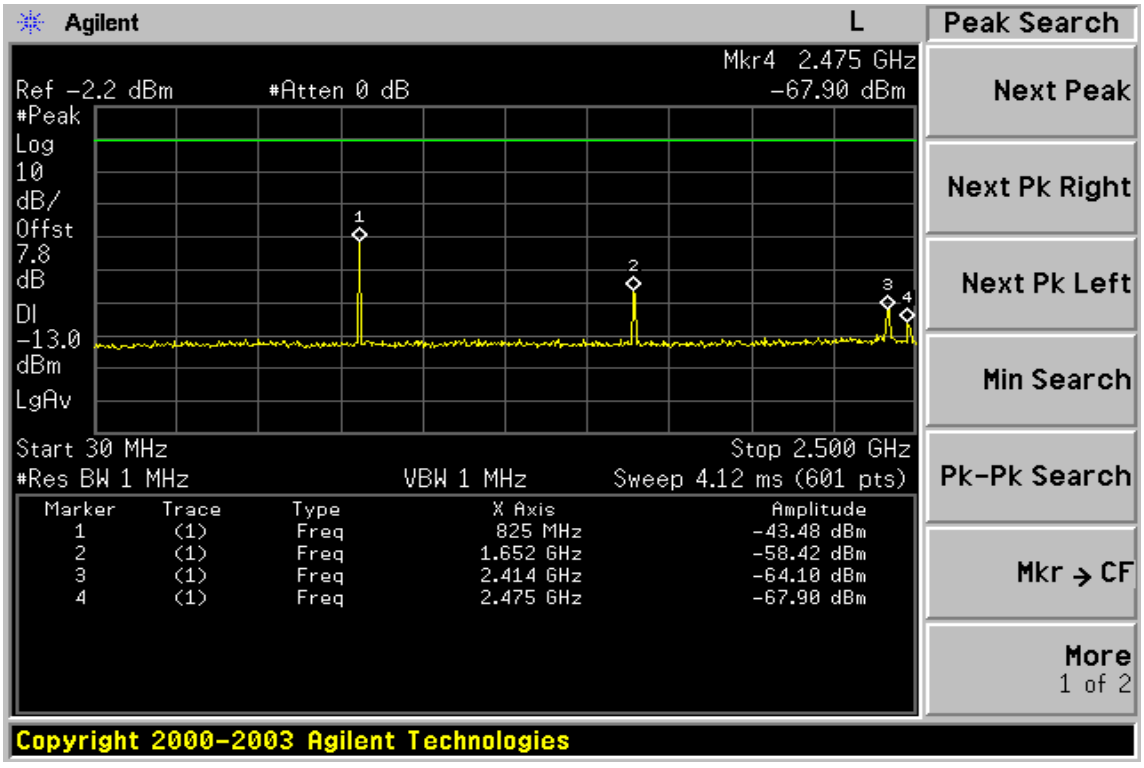


Figure 8-14: Out of Band emission at antenna terminals– WCDMA Band V Channel Lowest



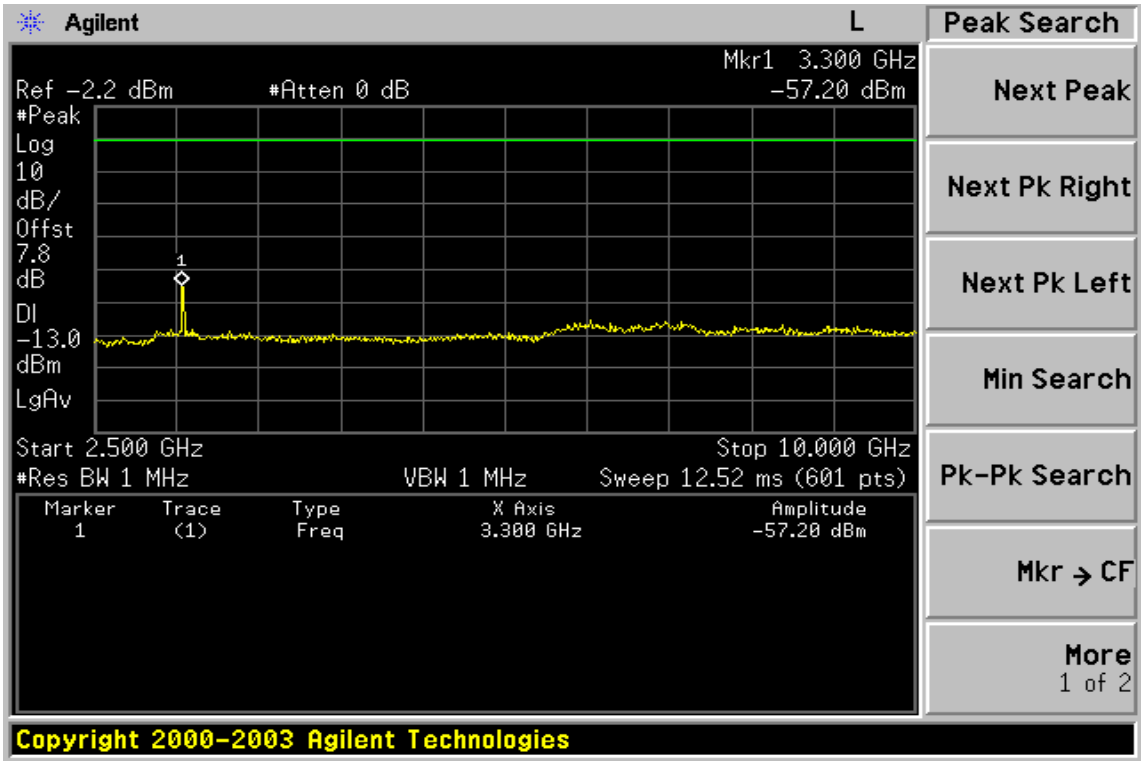
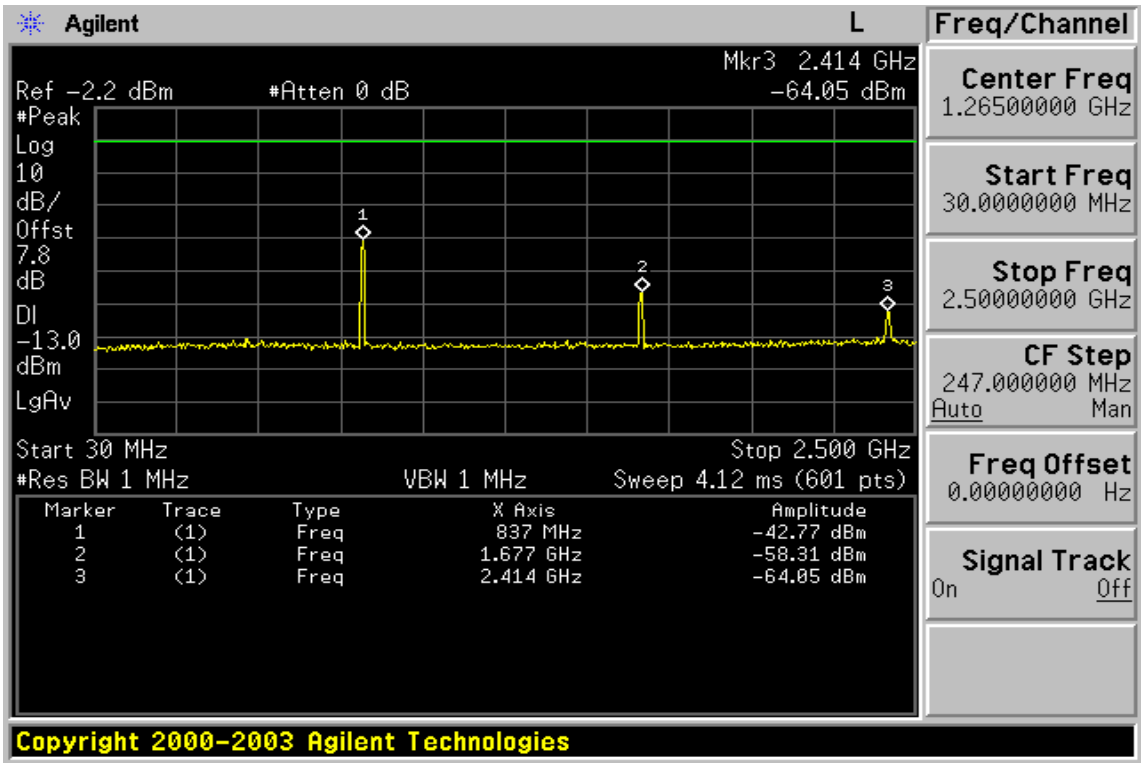


Figure 8-15: Out of Band emission at antenna terminals –WCDMA Band V Channel Mid



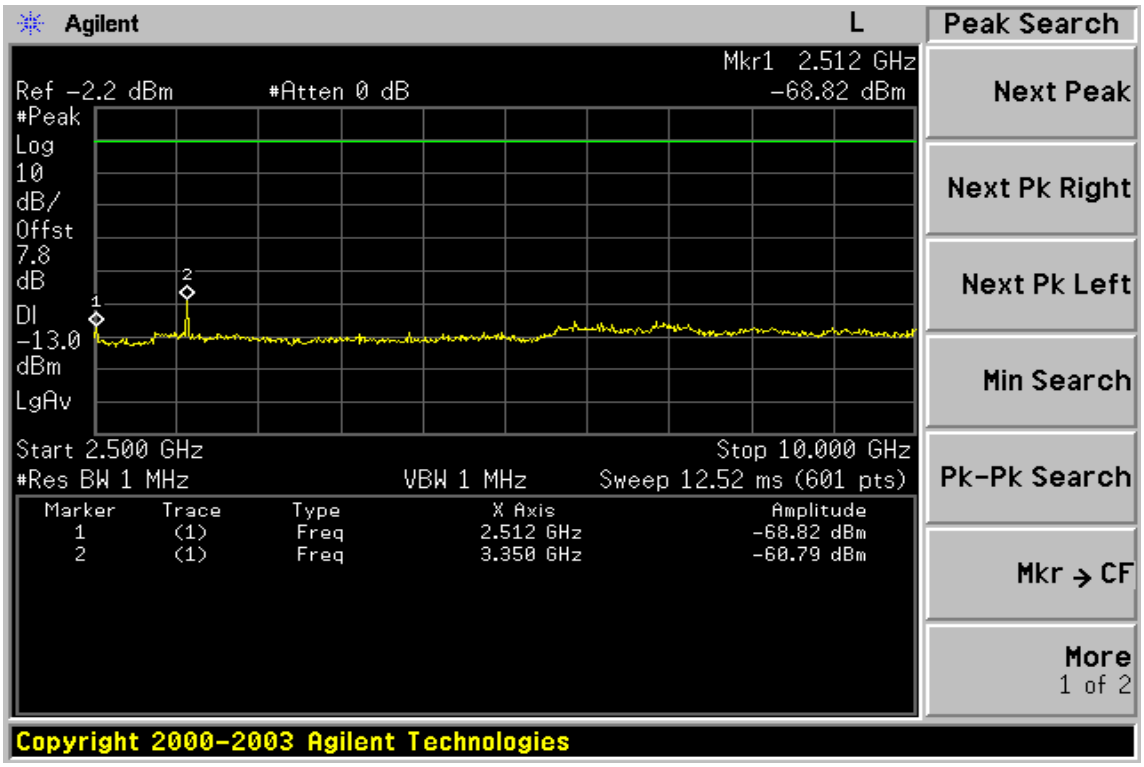
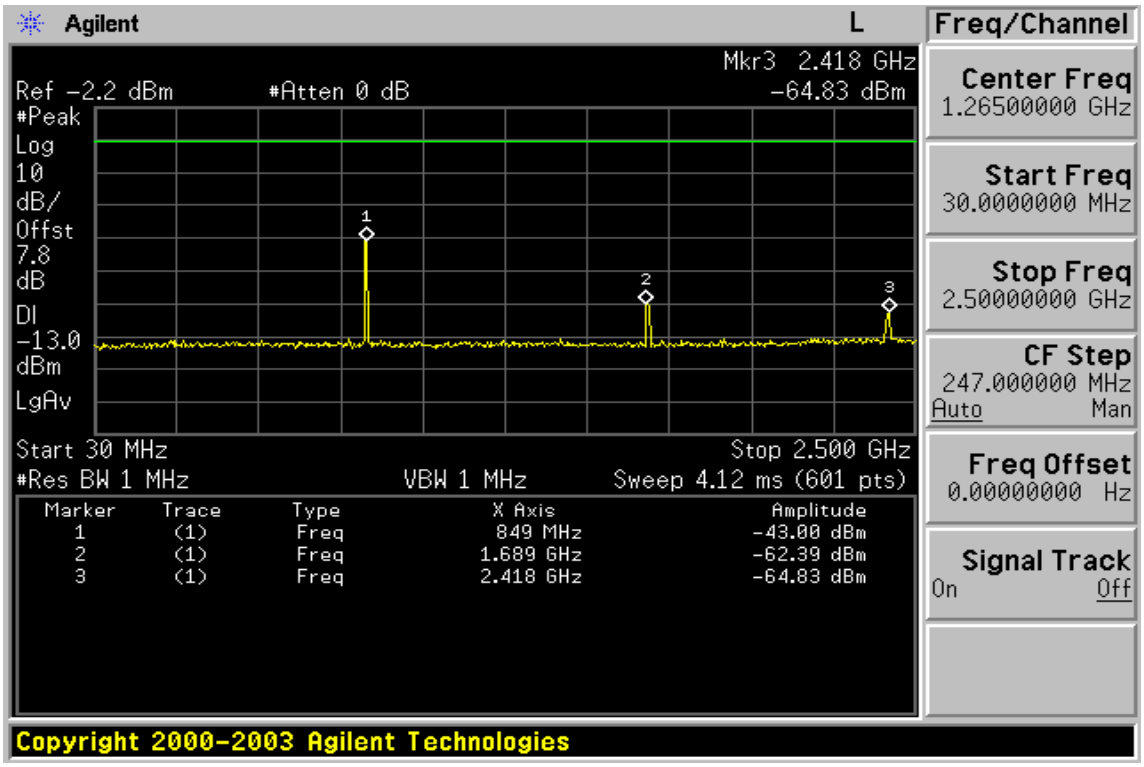


Figure 8-16: Out of Band emission at antenna terminals–WCDMA V Channel Highest



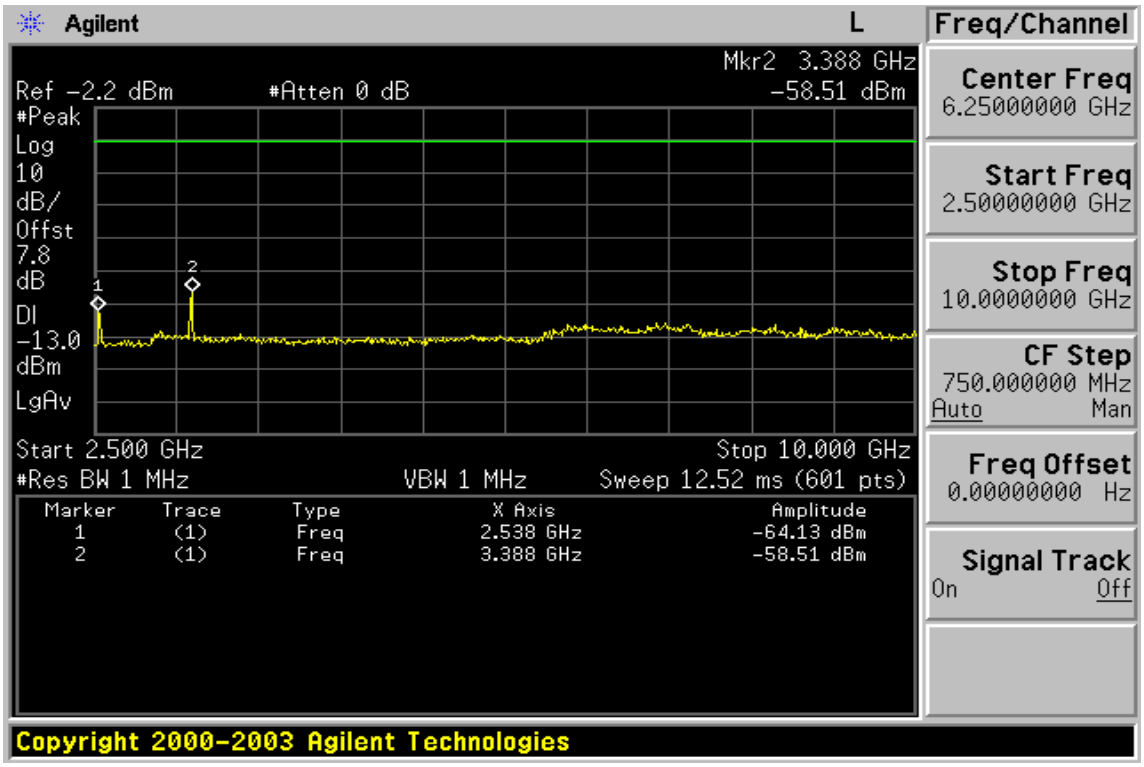
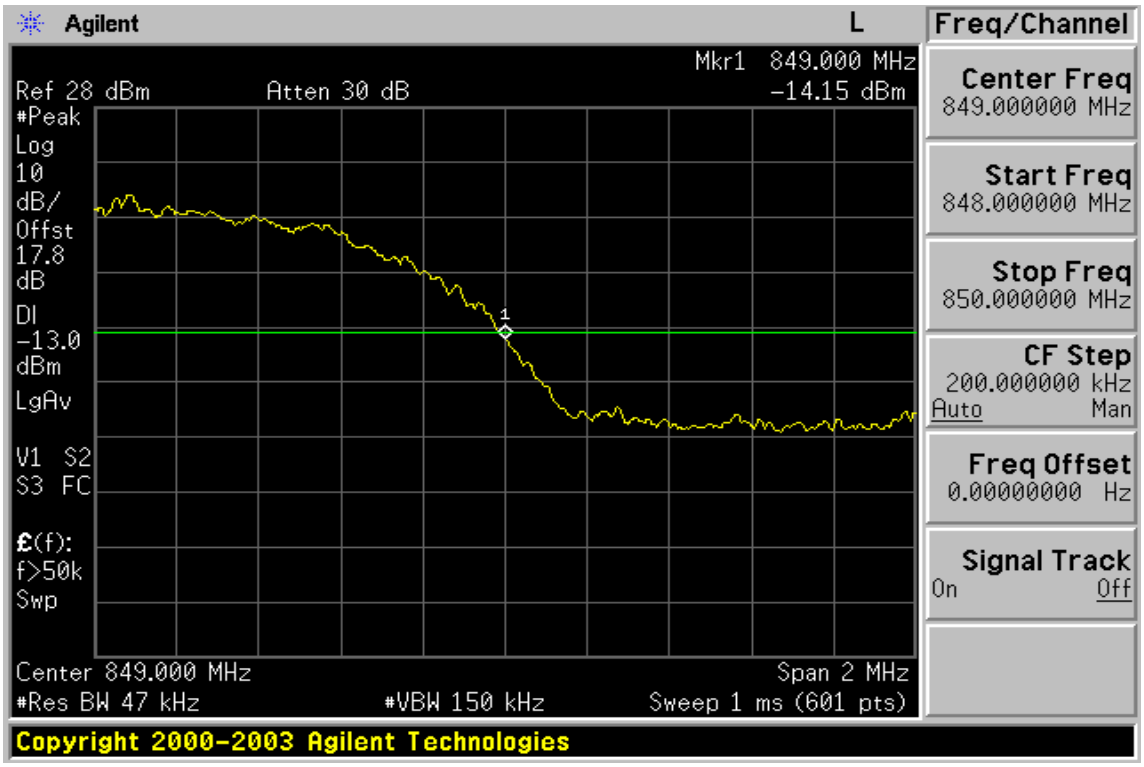


Figure 8-17: Bad edge emission at antenna terminals – WCDMA V Channel Lowest

Figure 8-18: Band edge emission at antenna terminals – WCDMA V Channel Highest



9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

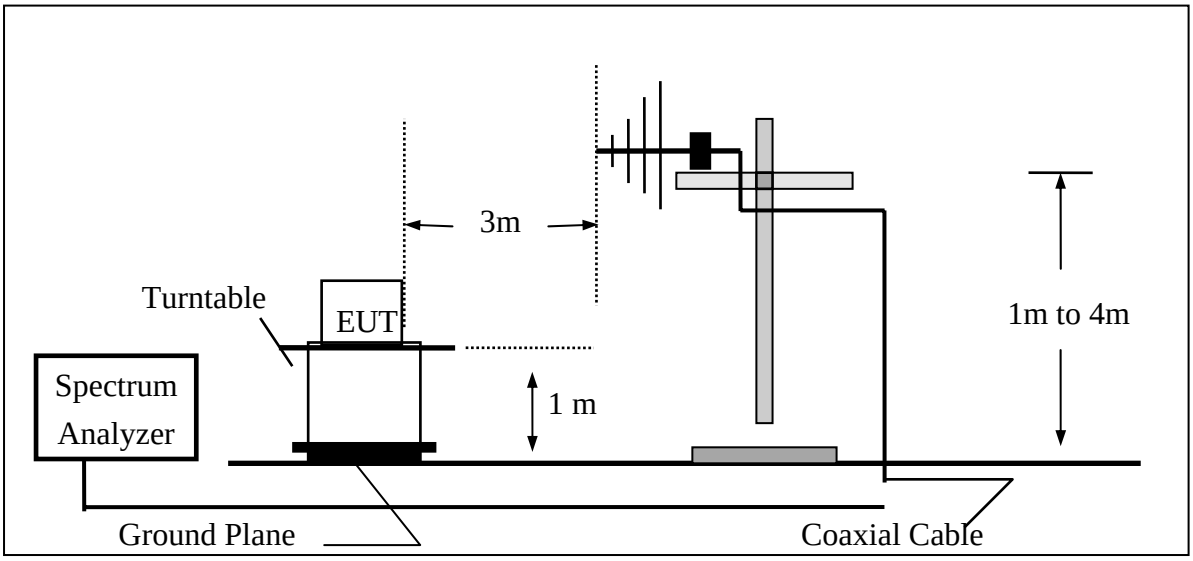
9.1 Standard Applicable

According to FCC §2.1053,

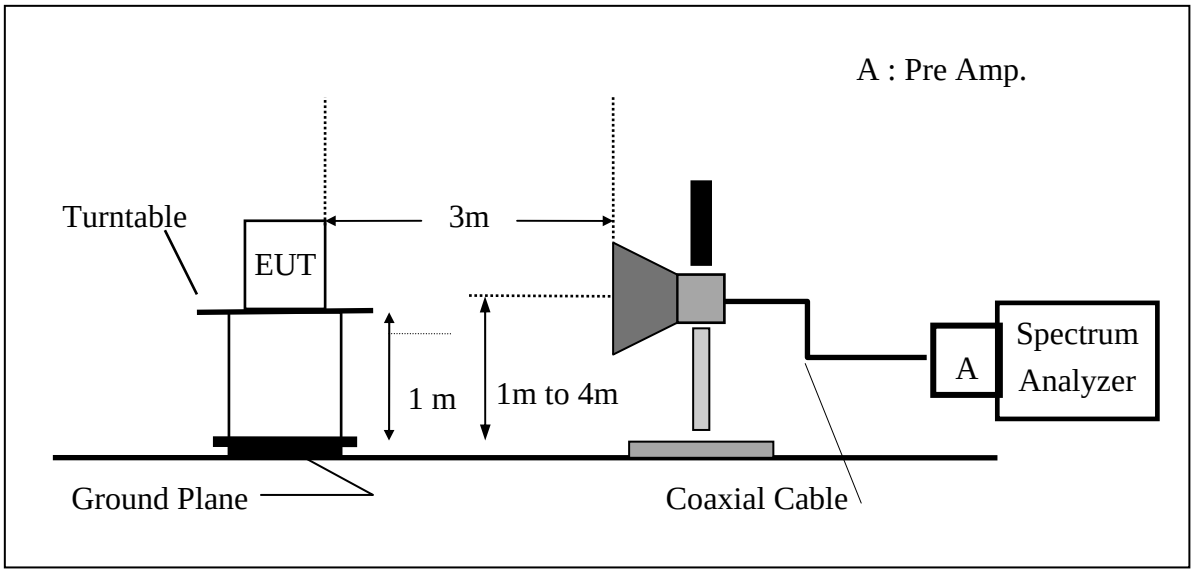
FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

9.2 EUT Setup (Block Diagram of Configuration)

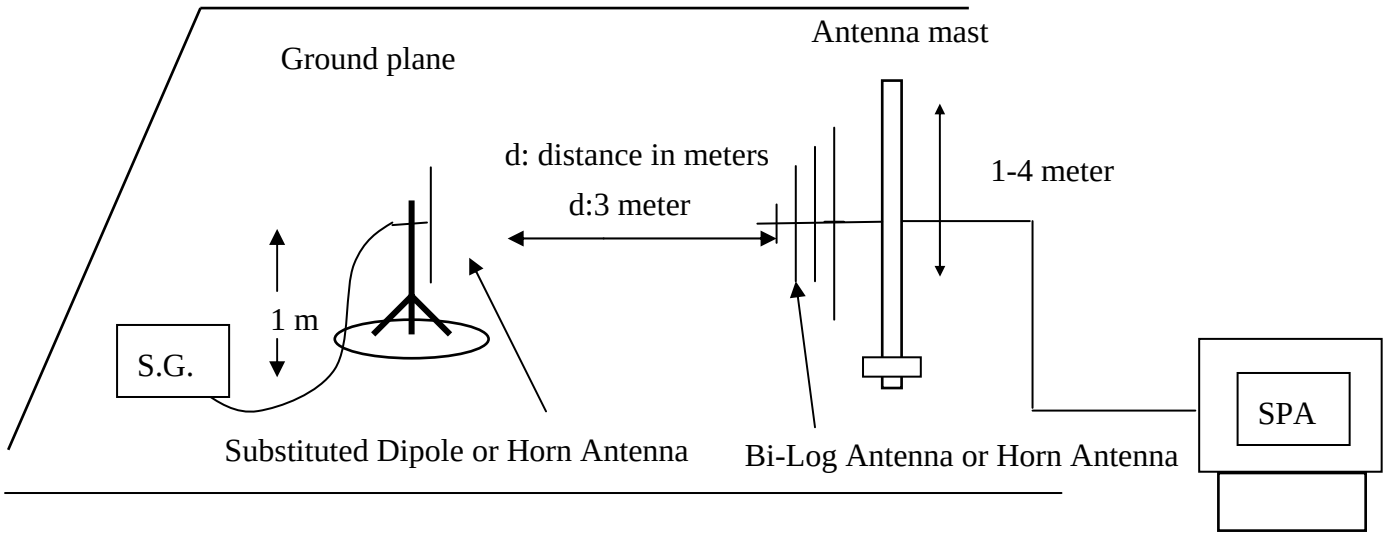
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



9.3 Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

EIRP = S.G. output (dBm) + Antenna Gain(dBi) – Cable Loss (dB)

9.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Bilog Antenna	SCHWAZBECK	VULB9160	3224	11/14/2006	11/13/2007
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2006	08/15/2007
Pre-Amplifier	HP	8447D	2944A09469	07/19/2006	07/18/2007
Pre-Amplifier	HP	8494B	3008A00578	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2006	10/08/2007
Site NSA	SGS	966 chamber	N/A	11/17/2006	11/16/2007
Site NSA	SGS	10m Open-Site	N/A	10/02/2006	10/01/2007
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2006	10/13/2007
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/09/2007	06/10/2008
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/09/2007	06/10/2008
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2006	08/15/2007

9.5 Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 824.20 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
30.00	50.28	V	-54.42	-7.34	0.95	-62.71	-13.00	-49.71
101.78	45.03	V	-56.73	-7.76	1.37	-65.85	-13.00	-52.85
824.00	71.39	V	-15.00	-7.87	3.62	-26.50	-13.00	-13.50
1648.40	50.73	V	-53.85	9.29	5.23	-49.79	-13.00	-36.79
2472.60	50.47	V	-50.54	10.08	6.53	-46.99	-13.00	-33.99
3296.80	---	V		12.17	7.71		-13.00	
4121.00	45.33	V	-50.79	12.61	8.86	-47.04	-13.00	-34.04
4945.20	38.36	V	-54.11	12.65	9.74	-51.20	-13.00	-38.20
5769.40	39.10	V	-51.10	13.55	10.54	-48.08	-13.00	-35.08
6593.60	---	V		12.05	11.30		-13.00	
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 824.20 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	41.73	H	-61.16	-2.79	0.89	-64.85	-13.00	-51.85
101.78	44.66	H	-58.15	-7.76	1.37	-67.28	-13.00	-54.28
135.73	40.92	H	-58.34	-7.79	1.52	-67.66	-13.00	-54.66
824.00	78.14	H	-8.13	-7.87	3.62	-19.63	-13.00	-6.63
1648.40	53.31	H	-51.09	9.29	5.23	-47.03	-13.00	-34.03
2472.60	54.17	H	-46.74	10.08	6.53	-43.19	-13.00	-30.19
3296.80	---	H		12.17	7.71		-13.00	
4121.00	40.12	H	-56.13	12.61	8.86	-52.38	-13.00	-39.38
4945.20	---	H		12.65	9.74		-13.00	
5769.40	---	H		13.55	10.54		-13.00	
6593.60	---	H		12.05	11.30		-13.00	
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 836.60 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
30.00	50.27	V	-54.43	-7.34	0.95	-62.72	-13.00	-49.72
38.73	42.33	V	-59.84	-3.25	0.90	-63.98	-13.00	-50.98
51.34	44.23	V	-63.35	-0.58	1.12	-65.05	-13.00	-52.05
101.78	44.30	V	-57.46	-7.76	1.37	-66.58	-13.00	-53.58
1673.20	51.48	V	-53.08	9.36	5.27	-48.98	-13.00	-35.98
2509.80	50.12	V	-50.66	10.09	6.58	-47.16	-13.00	-34.16
3346.40	42.87	V	-55.99	12.28	7.79	-51.51	-13.00	-38.51
4183.00	43.57	V	-52.32	12.62	8.93	-48.63	-13.00	-35.63
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	36.56	V	-48.46	11.95	11.39	-47.90	-13.00	-34.90
7529.40	39.01	V	-41.64	11.45	12.20	-42.39	-13.00	-29.39
8366.00	---	V		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 836.60 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	41.24	H	-61.65	-2.79	0.89	-65.34	-13.00	-52.34
101.78	44.03	H	-58.78	-7.76	1.37	-67.91	-13.00	-54.91
135.73	40.11	H	-59.15	-7.79	1.52	-68.47	-13.00	-55.47
1673.20	52.85	H	-51.53	9.36	5.27	-47.43	-13.00	-34.43
2509.80	59.20	H	-41.50	10.09	6.58	-38.00	-13.00	-25.00
3346.40	39.63	H	-59.43	12.28	7.79	-54.95	-13.00	-41.95
4183.00	40.89	H	-55.14	12.62	8.93	-51.45	-13.00	-38.45
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH High H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 848.80 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
30.00	51.34	V	-53.36	-7.34	0.95	-61.65	-13.00	-48.65
38.73	43.02	V	-59.15	-3.25	0.90	-63.29	-13.00	-50.29
48.43	43.24	V	-62.94	-0.92	1.09	-64.96	-13.00	-51.96
101.78	42.85	V	-58.91	-7.76	1.37	-68.03	-13.00	-55.03
849.02	75.12	V	-11.00	-7.88	3.68	-22.56	-13.00	-9.56
1697.60	50.64	V	-53.90	9.44	5.31	-49.77	-13.00	-36.77
2546.40	5.65	V	-94.99	10.20	6.63	-91.43	-13.00	-78.43
3395.20	45.72	V	-53.13	12.38	7.87	-48.62	-13.00	-35.62
4244.00	42.44	V	-53.22	12.63	9.00	-49.59	-13.00	-36.59
5092.80	---	V		12.74	9.88		-13.00	
5941.60	36.42	V	-53.27	13.81	10.70	-50.16	-13.00	-37.16
6790.40	---	V		11.86	11.48		-13.00	
7639.20	40.44	V	-40.04	11.40	12.27	-40.91	-13.00	-27.91
8488.00	---	V		11.70	12.91		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH High H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 848.80 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	40.54	H	-62.35	-2.79	0.89	-66.04	-13.00	-53.04
101.78	44.18	H	-58.63	-7.76	1.37	-67.76	-13.00	-54.76
135.73	39.90	H	-59.36	-7.79	1.52	-68.68	-13.00	-55.68
849.00	81.90	H	-4.29	-7.88	3.68	-15.85	-13.00	-2.85
1697.60	55.96	H	-48.39	9.44	5.31	-44.26	-13.00	-31.26
2546.40	61.12	H	-39.48	10.20	6.63	-35.92	-13.00	-22.92
3395.20	43.23	H	-55.80	12.38	7.87	-51.28	-13.00	-38.28
4244.00	---	H		12.63	9.00		-13.00	
5092.80	---	H		12.74	9.88		-13.00	
5941.60	---	H		13.81	10.70		-13.00	
6790.40	---	H		11.86	11.48		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
8488.00	---	H		11.70	12.91		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1850.20MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
30.00	50.54	V	-54.16	-7.34	0.95	-62.45	-13.00	-49.45
56.19	45.66	V	-64.00	-0.51	1.09	-65.61	-13.00	-52.61
101.78	44.42	V	-57.34	-7.76	1.37	-66.46	-13.00	-53.46
1849.98	82.35	V	-22.04	9.90	5.56	-17.70	-13.00	-4.70
3700.40	49.97	V	-47.96	12.61	8.31	-43.66	-13.00	-30.66
5550.60	54.38	V	-36.46	13.23	10.33	-33.56	-13.00	-20.56
7400.80	---	V		11.50	12.08		-13.00	
9251.00	---	V		11.92	13.50		-13.00	
11101.20	---	V		11.66	15.11		-13.00	
12951.40	---	V		13.63	16.60		-13.00	
14801.60	---	V		12.76	17.95		-13.00	
16651.80	---	V		15.92	19.14		-13.00	
18502.00	---	V		18.75	10.40		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1850.20MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
40.67	40.93	H	-62.16	-2.51	0.91	-65.58	-13.00	-52.58
101.78	44.46	H	-58.35	-7.76	1.37	-67.48	-13.00	-54.48
135.73	41.09	H	-58.17	-7.79	1.52	-67.49	-13.00	-54.49
1849.99	84.39	H	-19.79	9.90	5.56	-15.45	-13.00	-2.45
3700.40	52.04	H	-46.00	12.61	8.31	-41.70	-13.00	-28.70
5550.60	58.66	H	-32.39	13.23	10.33	-29.49	-13.00	-16.49
7400.80	---	H		11.50	12.08		-13.00	
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	
18502.00	---	H		18.75	10.40		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1880MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
30.00	50.01	V	-54.69	-7.34	0.95	-62.98	-13.00	-49.98
38.73	42.43	V	-59.74	-3.25	0.90	-63.88	-13.00	-50.88
53.28	45.32	V	-63.09	-0.55	1.11	-64.75	-13.00	-51.75
3760.00	50.43	V	-47.23	12.60	8.39	-43.01	-13.00	-30.01
5640.00	47.51	V	-43.07	13.36	10.41	-40.12	-13.00	-27.12
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1880MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
40.67	40.76	H	-62.33	-2.51	0.91	-65.75	-13.00	-52.75
101.78	45.70	H	-57.11	-7.76	1.37	-66.24	-13.00	-53.24
133.79	41.59	H	-57.88	-7.79	1.52	-67.18	-13.00	-54.18
3760.00	53.58	H	-44.19	12.60	8.39	-39.98	-13.00	-26.98
5640.00	49.26	H	-41.49	13.36	10.41	-38.54	-13.00	-25.54
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1909.8 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
30.00	50.02	V	-54.68	-7.34	0.95	-62.97	-13.00	-49.97
39.70	41.82	V	-60.07	-2.79	0.89	-63.75	-13.00	-50.75
56.19	46.08	V	-63.58	-0.51	1.09	-65.19	-13.00	-52.19
101.78	45.24	V	-56.52	-7.76	1.37	-65.64	-13.00	-52.64
1910.02	80.87	V	-23.46	10.08	5.66	-19.04	-13.00	-6.04
3981.60	53.26	V	-43.40	12.60	8.69	-39.50	-13.00	-26.50
5972.40	46.62	V	-42.98	13.86	10.73	-39.86	-13.00	-26.86
7963.20	---	V		11.27	12.49		-13.00	
9954.00	---	V		12.08	14.24		-13.00	
11944.80	---	V		13.08	15.87		-13.00	
13935.60	---	V		11.82	17.21		-13.00	
15926.40	---	V		17.08	18.70		-13.00	
17917.20	---	V		9.63	19.97		-13.00	
19908.00	---	V		18.88	21.24		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1909.8 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
40.67	41.58	H	-61.51	-2.51	0.91	-64.93	-13.00	-51.93
101.78	46.27	H	-56.54	-7.76	1.37	-65.67	-13.00	-52.67
135.73	41.60	H	-57.66	-7.79	1.52	-66.98	-13.00	-53.98
1910.02	81.98	H	-22.13	10.08	5.66	-17.71	-13.00	-4.71
3981.60	54.22	H	-42.55	12.60	8.69	-38.65	-13.00	-25.65
5972.40	43.83	H	-45.80	13.86	10.73	-42.68	-13.00	-29.68
7963.20	---	H		11.27	12.49		-13.00	
9954.00	---	H		12.08	14.24		-13.00	
11944.80	---	H		13.08	15.87		-13.00	
13935.60	---	H		11.82	17.21		-13.00	
15926.40	---	H		17.08	18.70		-13.00	
17917.20	---	H		9.63	19.97		-13.00	
17188.20	---	H		14.47	19.52		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark”---“ means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1852.40MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	46.71	V	-56.02	-4.16	0.91	-61.09	-13.00	-48.09
153.19	32.33	V	-65.25	-7.80	1.60	-74.65	-13.00	-61.65
1850.00	81.86	V	-22.53	9.90	5.56	-18.19	-13.00	-5.19
3700.40	---	V		12.61	8.31		-13.00	
5550.60	---	V		13.23	10.33		-13.00	
7400.80	---	V		11.50	12.08		-13.00	
9251.00	---	V		11.92	13.50		-13.00	
11101.20	---	V		11.66	15.11		-13.00	
12951.40	---	V		13.63	16.60		-13.00	
14801.60	---	V		12.76	17.95		-13.00	
16651.80	---	V		15.92	19.14		-13.00	
18502.00	---	V		18.75	10.40		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1852.40MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
40.67	42.06	H	-61.03	-2.51	0.91	-64.45	-13.00	-51.45
101.78	47.09	H	-55.72	-7.76	1.37	-64.85	-13.00	-51.85
1850.00	86.29	H	-17.89	9.90	5.56	-13.55	-13.00	-0.55
3700.40	---	H		12.61	8.31		-13.00	
5550.60	---	H		13.23	10.33		-13.00	
7400.80	---	H		11.50	12.08		-13.00	
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	
18502.00	---	H		18.75	10.40		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1880MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	45.00	V	-56.76	-7.76	1.37	-65.88	-13.00	-52.88
3408.00	36.64	V	-62.21	12.41	7.89	-57.69	-13.00	-44.69
3760.00	---	V		12.60	8.39		-13.00	
5640.00	---	V		13.36	10.41		-13.00	
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1880MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
397.63	37.35	H	-59.12	-7.66	2.50	-69.28	-13.00	-56.28
2939.00	37.76	H	-61.72	11.34	7.17	-57.55	-13.00	-44.55
3760.00	---	H		12.60	8.39		-13.00	
5640.00	---	H		13.36	10.41		-13.00	
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH High H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1907.6 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	46.71	V	-56.02	-4.16	0.91	-61.09	-13.00	-48.09
58.13	42.41	V	-68.09	-0.49	1.08	-69.65	-13.00	-56.65
1910.00	75.19	V	-29.14	10.08	5.66	-24.72	-13.00	-11.72
3981.60	---	V		12.60	8.69		-13.00	
5972.40	---	V		13.86	10.73		-13.00	
7963.20	---	V		11.27	12.49		-13.00	
9954.00	---	V		12.08	14.24		-13.00	
11944.80	---	V		13.08	15.87		-13.00	
13935.60	---	V		11.82	17.21		-13.00	
15926.40	---	V		17.08	18.70		-13.00	
17917.20	---	V		9.63	19.97		-13.00	
19908.00	---	V		18.88	21.24		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Mode	: TX CH High H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 1907.6 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
40.67	42.06	H	-61.03	-2.51	0.91	-64.45	-13.00	-51.45
1910.00	82.91	H	-21.20	10.08	5.66	-16.78	-13.00	-3.78
3981.60	---	H		12.60	8.69		-13.00	
5972.40	---	H		13.86	10.73		-13.00	
7963.20	---	H		11.27	12.49		-13.00	
9954.00	---	H		12.08	14.24		-13.00	
11944.80	---	H		13.08	15.87		-13.00	
13935.60	---	H		11.82	17.21		-13.00	
15926.40	---	H		17.08	18.70		-13.00	
17917.20	---	H		9.63	19.97		-13.00	
19908.00	---	H		18.88	21.24		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 826.4MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	46.11	V	-56.62	-4.16	0.91	-61.69	-13.00	-48.69
101.78	43.30	V	-58.46	-7.76	1.37	-67.58	-13.00	-54.58
824.00	81.47	V	-4.92	-7.87	3.62	-16.42	-13.00	-3.42
1434.00	41.75	V	-63.26	8.46	4.32	-59.12	-13.00	-46.12
1648.40	---	V		9.29	5.23		-13.00	
2472.60	---	V		10.08	6.53		-13.00	
3296.80	---	V		12.17	7.71		-13.00	
4121.00	---	V		12.61	8.86		-13.00	
4945.20	---	V		12.65	9.74		-13.00	
5769.40	---	V		13.55	10.54		-13.00	
6593.60	---	V		12.05	11.30		-13.00	
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 826.4MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	41.97	H	-60.92	-2.79	0.89	-64.61	-13.00	-51.61
824.00	82.11	H	-4.16	-7.87	3.62	-15.66	-13.00	-2.66
1378.00	44.54	H	-60.59	8.14	3.76	-56.21	-13.00	-43.21
1648.40	---	H		9.29	5.23		-13.00	
2472.60	---	H		10.08	6.53		-13.00	
3296.80	---	H		12.17	7.71		-13.00	
4121.00	---	H		12.61	8.86		-13.00	
4945.20	---	H		12.65	9.74		-13.00	
5769.40	---	H		13.55	10.54		-13.00	
6593.60	---	H		12.05	11.30		-13.00	
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 836.0MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
106.63	43.60	V	-57.71	-7.77	1.39	-66.86	-13.00	-53.86
1378.00	43.12	V	-62.12	8.14	3.76	-57.75	-13.00	-44.75
1673.20	---	V		9.36	5.27		-13.00	
2509.80	---	V		10.09	6.58		-13.00	
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 836.0MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	46.49	H	-56.32	-7.76	1.37	-65.45	-13.00	-52.45
1434.00	46.60	H	-58.27	8.46	4.32	-54.13	-13.00	-41.13
1673.20	---	H		9.36	5.27		-13.00	
2509.80	---	H		10.09	6.58		-13.00	
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH High H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 846.6 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	46.11	V	-56.62	-4.16	0.91	-61.69	-13.00	-48.69
106.63	43.60	V	-57.71	-7.77	1.39	-66.86	-13.00	-53.86
849.00	76.05	V	-10.07	-7.88	3.68	-21.63	-13.00	-8.63
1378.00	43.12	V	-62.12	8.14	3.76	-57.75	-13.00	-44.75
1434.00	41.75	V	-63.26	8.46	4.32	-59.12	-13.00	-46.12
1697.60	---	V		9.44	5.31		-13.00	
2546.40	---	V		10.20	6.63		-13.00	
3395.20	---	V		12.38	7.87		-13.00	
4244.00	---	V		12.63	9.00		-13.00	
5092.80	---	V		12.74	9.88		-13.00	
5941.60	---	V		13.81	10.70		-13.00	
6790.40	---	V		11.86	11.48		-13.00	
7639.20	---	V		11.40	12.27		-13.00	
8488.00	---	V		11.70	12.91		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Mode	: TX CH High H Mode	Test Date:	Jul. 11, 2007
Fundamental Frequency	: 846.60 MHz	Test By:	Jason
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	41.97	H	-60.92	-2.79	0.89	-64.61	-13.00	-51.61
101.78	46.49	H	-56.32	-7.76	1.37	-65.45	-13.00	-52.45
849.00	79.62	H	-6.57	-7.88	3.68	-18.13	-13.00	-5.13
1434.00	46.60	H	-58.27	8.46	4.32	-54.13	-13.00	-41.13
1483.00	42.92	H	-61.73	8.74	4.81	-57.80	-13.00	-44.80
1697.60	---	H		9.44	5.31		-13.00	
2546.40	---	H		10.20	6.63		-13.00	
3395.20	---	H		12.38	7.87		-13.00	
4244.00	---	H		12.63	9.00		-13.00	
5092.80	---	H		12.74	9.88		-13.00	
5941.60	---	H		13.81	10.70		-13.00	
6790.40	---	H		11.86	11.48		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
8488.00	---	H		11.70	12.91		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark：

1 The emission behaviour belongs to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

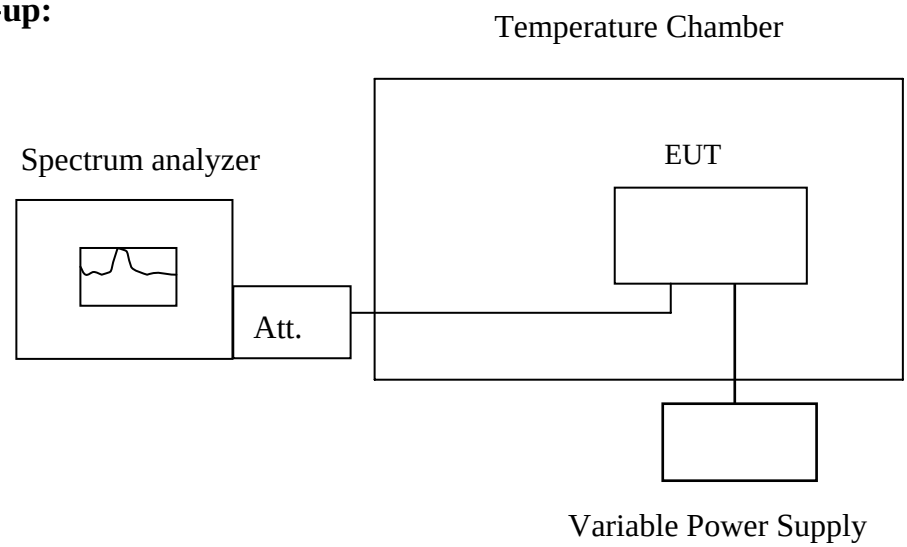
10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: 2.5 ppm

10.2 Test Set-up:



Note : Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

10.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2006	10/06/2007
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008

10.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25℃				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.3	-30	836.600014	-12.00	2091
3.3	-20	836.600017	-15.00	2091
3.3	-10	836.600023	-21.00	2091
3.3	0	836.600024	-22.00	2091
3.3	10	836.600016	-14.00	2091
3.3	20	836.600002	0.00	2091
3.3	30	836.600001	1.00	2091
3.3	40	836.600002	0.00	2091
3.3	50	836.600010	-8.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25℃				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.3	-30	1879.999885	75.00	4700
3.3	-20	1879.999862	98.00	4700
3.3	-10	1879.999834	126.00	4700
3.3	0	1879.999820	140.00	4700
3.3	10	1879.999785	175.00	4700
3.3	20	1879.999960	0.00	4700
3.3	30	1879.999925	35.00	4700
3.3	40	1880.000025	-65.00	4700
3.3	50	1880.000045	-85.00	4700

Reference Frequency: WCDMA II Mid Channel 1880 MHz @ 25℃				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.3	-30	1880.000095	1.00	4700
3.3	-20	1880.000099	-3.00	4700
3.3	-10	1880.000108	-12.00	4700
3.3	0	1880.000101	-5.00	4700
3.3	10	1880.000087	9.00	4700
3.3	20	1880.000096	0.00	4700
3.3	30	1880.000072	24.00	4700
3.3	40	1880.000108	-12.00	4700
3.3	50	1880.000089	7.00	4700

Reference Frequency: WCDMA V Mid Channel 836.6 MHz @ 25℃				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.3	-30	836.000031	-9.00	2091
3.3	-20	836.000035	-13.00	2091
3.3	-10	836.000039	-17.00	2091
3.3	0	836.000046	-24.00	2091
3.3	10	836.000041	-19.00	2091
3.3	20	836.000022	0.00	2091
3.3	30	836.000052	-30.00	2091
3.3	40	836.000046	-24.00	2091
3.3	50	836.000036	-14.00	2091

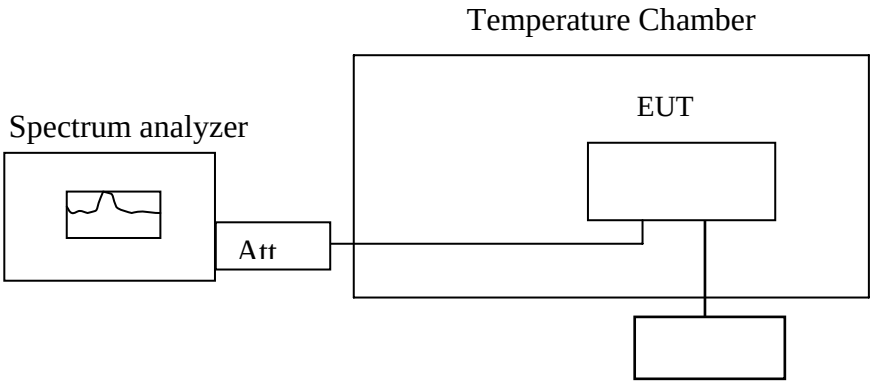
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: 2.5 ppm

11.2 Test Set-up:



Note: *Measurement setup for testing on Antenna connector*

11.3 Measurement Procedure

Set chamber temperature to 25℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

11.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2006	10/06/2007
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008

11.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25℃				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.25	25.00	836.600000	2.00	2091.00
3.70	25.00	836.600002	0.00	2091.00
3.40	25.00	836.600001	1.00	2091.00
3.40 (Endpoint)	25.00	836.600001	1.00	2091.00

Reference Frequency: PCS Mid Channel 1880 MHz @ 25℃				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.25	25	1879.999920	40.00	4700
3.70	25	1879.999960	0.00	4700
3.40	25	1879.999945	15.00	4700
3.40 (Endpoint)	25	1879.999945	15.00	4700

Note: The battery is rated 3.7V dc.

Reference Frequency: WCDMA II Mid Channel 1880 MHz @ 25℃				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.25	25	1880.000076	20.00	4700
3.70	25	1880.000096	0.00	4700
3.40	25	1880.000099	-3.00	4700
3.40 (Endpoint)	25	1880.000099	-3.00	4700

Reference Frequency: WCDMA V Mid Channel 836.6 MHz @ 25℃				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.25	25.00	836.000013	9.00	2091.00
3.70	25.00	836.000022	0.00	2091.00
3.40	25.00	836.000020	2.00	2091.00
3.40 (Endpoint)	25.00	836.000018	4.00	2091.00

Note: The battery is rated 3.7V dc.

12. AC POWER LINE CONDUCTED EMISSION TEST

12.1 Standard Applicable

According to §15.207. The emission value for frequency within 150KHz to 30MHz shall not exceed criteria of below chart.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

12.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
2. The EUT was plug-in DC power adaptort and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 110Vac/60Hz power source.

12.3 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

12.4 Measurement Equipment Used:

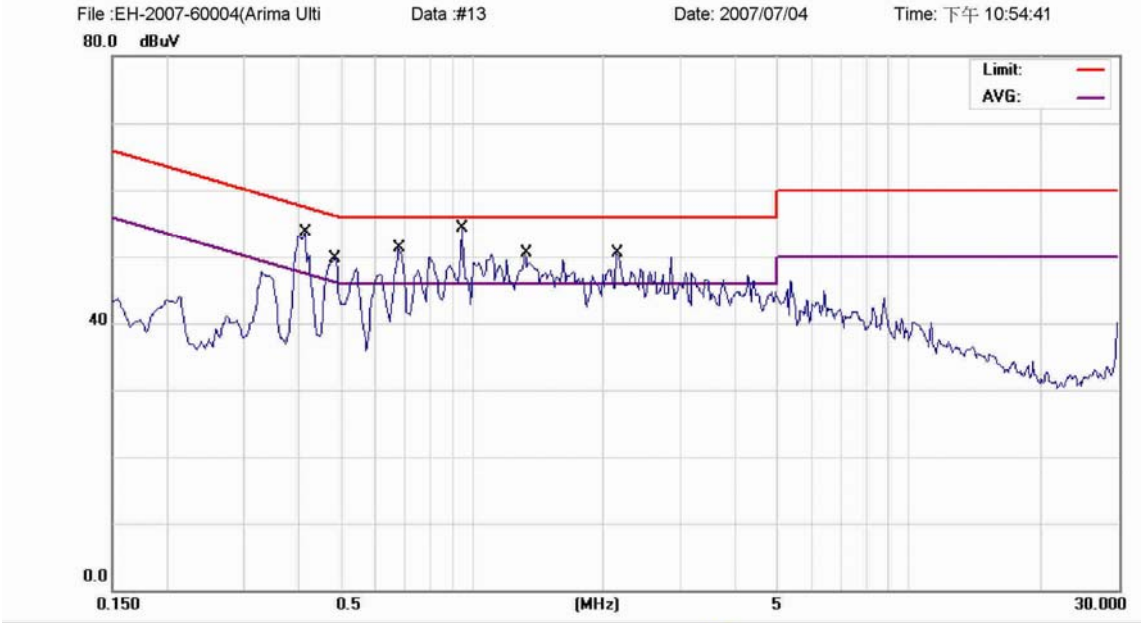
Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
EMC Analyzer	HP	8594EM	3624A00203	09/02/2006	09/03/2007
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2007	06/10/2008
Transient Limiter	HP	11947A	3107A02062	09/02/2006	09/03/2007
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2006	12/30/2007
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2006	12/23/2007
Coaxial Cables	N/A	No. 3, 4	N/A	12/24/2006	12/23/2007

12.5 Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK			Test Date:	Jul. 04, 2007
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jason

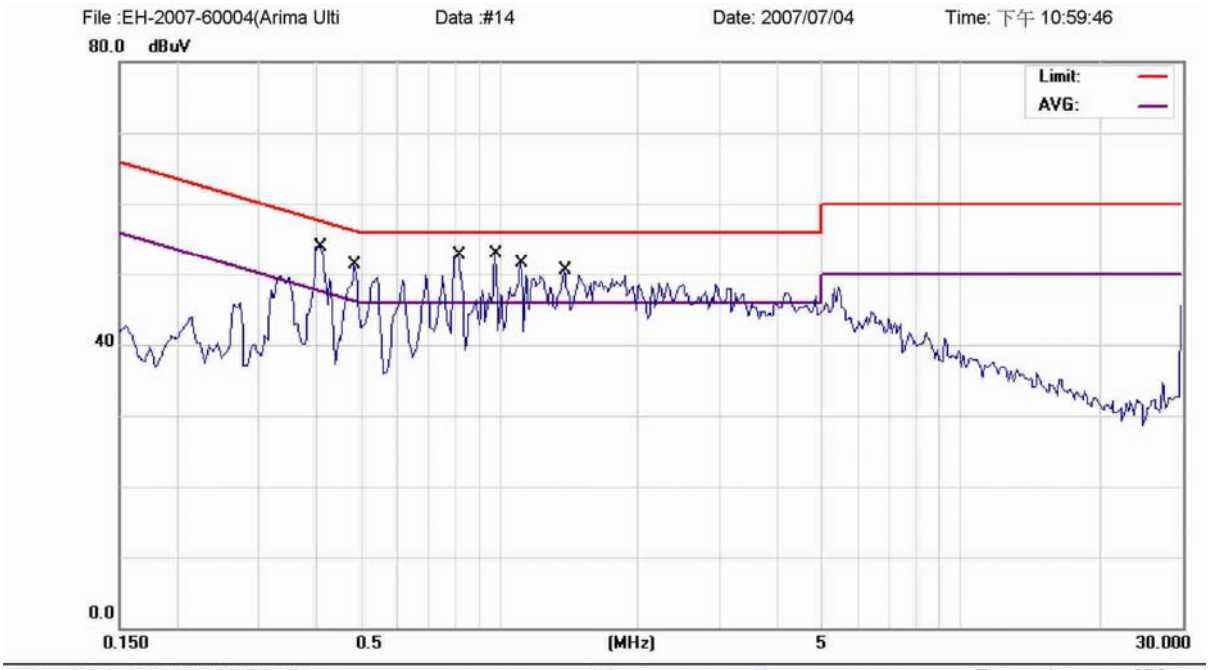


Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone (iMate)
M/N: Ultimate8150
Note: GSM 850 Link//BT+WLAN Link Mode

Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4150	52.30	0.02	52.32	57.55	-5.23	QP	
2	*	0.4150	43.80	0.02	43.82	47.55	-3.73	AVG	
3		0.4850	48.90	0.02	48.92	56.25	-7.33	QP	
4		0.4850	39.70	0.02	39.72	46.25	-6.53	AVG	
5		0.6800	49.70	0.02	49.72	56.00	-6.28	QP	
6		0.6800	37.40	0.02	37.42	46.00	-8.58	AVG	
7		0.9500	48.60	0.01	48.61	56.00	-7.39	QP	
8		0.9500	36.50	0.01	36.51	46.00	-9.49	AVG	
9		1.3250	46.70	0.02	46.72	56.00	-9.28	QP	
10		1.3250	36.40	0.02	36.42	46.00	-9.58	AVG	
11		2.1500	47.50	0.04	47.54	56.00	-8.46	QP	
12		2.1500	36.91	0.04	36.95	46.00	-9.05	AVG	



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone (iMate)
M/N: Ultimate8150
Note: GSM 850 Link//BT+WLAN Link Mode

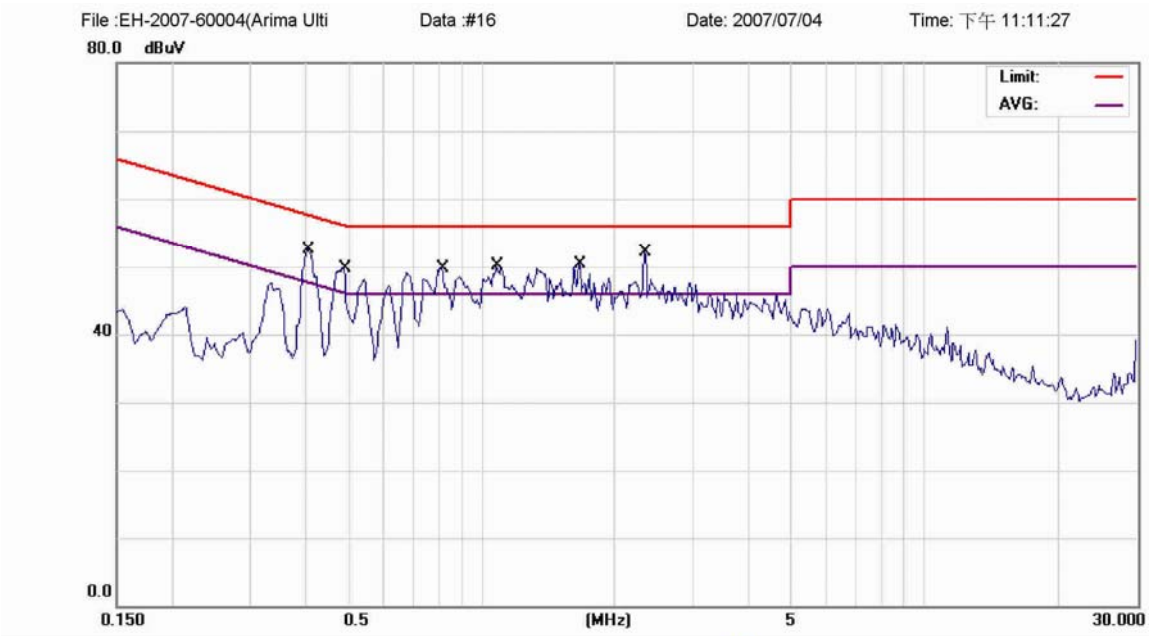
Phase: N
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4100	51.70	0.02	51.72	57.65	-5.93	QP	
2		0.4100	40.10	0.02	40.12	47.65	-7.53	AVG	
3		0.4850	47.80	0.02	47.82	56.25	-8.43	QP	
4		0.4850	36.90	0.02	36.92	46.25	-9.33	AVG	
5		0.8150	48.70	0.01	48.71	56.00	-7.29	QP	
6		0.8150	36.80	0.01	36.81	46.00	-9.19	AVG	
7		0.9800	49.60	0.01	49.61	56.00	-6.39	QP	
8		0.9800	37.80	0.01	37.81	46.00	-8.19	AVG	
9		1.1150	47.30	0.01	47.31	56.00	-8.69	QP	
10		1.1150	35.80	0.01	35.81	46.00	-10.19	AVG	
11		1.3850	47.90	0.02	47.92	56.00	-8.08	QP	
12		1.3850	37.51	0.02	37.53	46.00	-8.47	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 Link			Test Date:	Jul. 04, 2007
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jason

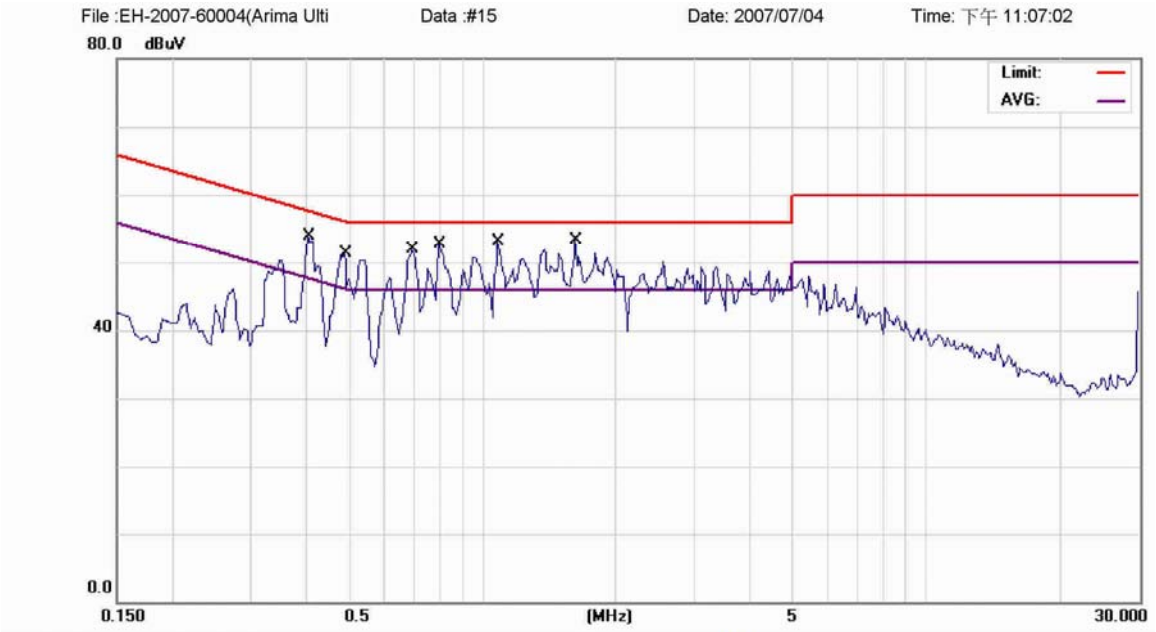


Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone (iMate)
M/N: Ultimate8150
Note: GSM 1900 Link//BT+WLAN Link Mode

Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4050	51.60	0.02	51.62	57.75	-6.13	QP	
2	*	0.4050	42.80	0.02	42.82	47.75	-4.93	AVG	
3		0.4900	49.60	0.02	49.62	56.17	-6.55	QP	
4		0.4900	40.10	0.02	40.12	46.17	-6.05	AVG	
5		0.8150	49.10	0.01	49.11	56.00	-6.89	QP	
6		0.8150	39.90	0.01	39.91	46.00	-6.09	AVG	
7		1.0850	48.60	0.01	48.61	56.00	-7.39	QP	
8		1.0850	38.80	0.01	38.81	46.00	-7.19	AVG	
9		1.6700	47.50	0.03	47.53	56.00	-8.47	QP	
10		1.6700	37.40	0.03	37.43	46.00	-8.57	AVG	
11		2.3450	44.80	0.05	44.85	56.00	-11.15	QP	
12		2.3450	36.41	0.05	36.46	46.00	-9.54	AVG	

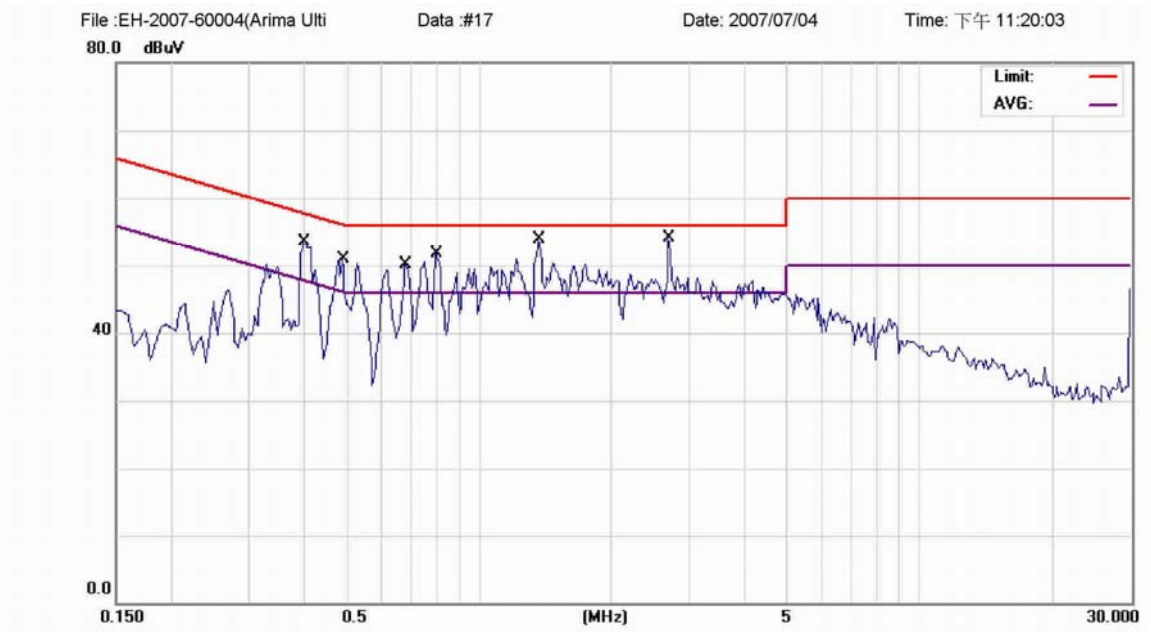


Site SGS CONDUCTED #1 | Phase: N | Temperature: 25 ℃
Limit: CISPR22 Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 62 %
EUT: Mobile Phone (iMate) | Distance: | Air Pressure: hpa
M/N: Ultimate8150
Note: GSM 1900 Link//BT+WLAN Link Mode

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4050	51.70	0.02	51.72	57.75	-6.03	QP	
2		0.4050	40.60	0.02	40.62	47.75	-7.13	AVG	
3		0.4900	47.80	0.02	47.82	56.17	-8.35	QP	
4		0.4900	35.70	0.02	35.72	46.17	-10.45	AVG	
5		0.6950	47.90	0.02	47.92	56.00	-8.08	QP	
6		0.6950	36.80	0.02	36.82	46.00	-9.18	AVG	
7		0.8000	48.70	0.01	48.71	56.00	-7.29	QP	
8		0.8000	36.80	0.01	36.81	46.00	-9.19	AVG	
9		1.0850	47.60	0.01	47.61	56.00	-8.39	QP	
10		1.0850	36.80	0.01	36.81	46.00	-9.19	AVG	
11		1.6250	47.50	0.03	47.53	56.00	-8.47	QP	
12		1.6250	37.91	0.03	37.94	46.00	-8.06	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMAII Link			Test Date:	Jul. 04, 2007
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jason

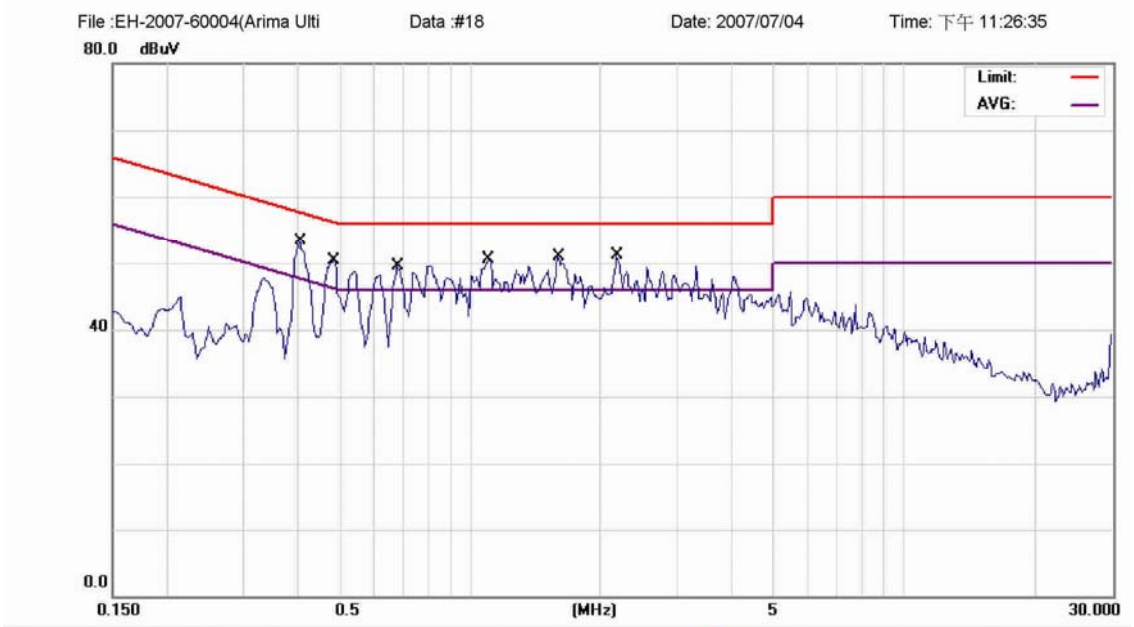


Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone (iMate)
M/N: Ultimate8150
Note: WCDMA B2 Link//BT+WLAN Link Mode

Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4000	51.60	0.02	51.62	57.85	-6.23	QP	
2		0.4000	41.20	0.02	41.22	47.85	-6.63	AVG	
3		0.4900	47.80	0.02	47.82	56.17	-8.35	QP	
4		0.4900	36.40	0.02	36.42	46.17	-9.75	AVG	
5		0.6890	35.93	0.02	35.95	46.00	-10.05	AVG	
6		0.6890	35.83	0.02	35.85	46.00	-10.15	AVG	
7		0.8000	48.60	0.01	48.61	56.00	-7.39	QP	
8		0.8000	37.40	0.01	37.41	46.00	-8.59	AVG	
9		1.3700	46.70	0.02	46.72	56.00	-9.28	QP	
10		1.3700	36.90	0.02	36.92	46.00	-9.08	AVG	
11		2.7050	45.20	0.05	45.25	56.00	-10.75	QP	
12		2.7050	46.21	0.05	46.26	56.00	-9.74	QP	



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone (iMate)
M/N: Ultimate8150
Note: WCDMA B2 Link//BT+WLAN Link Mode

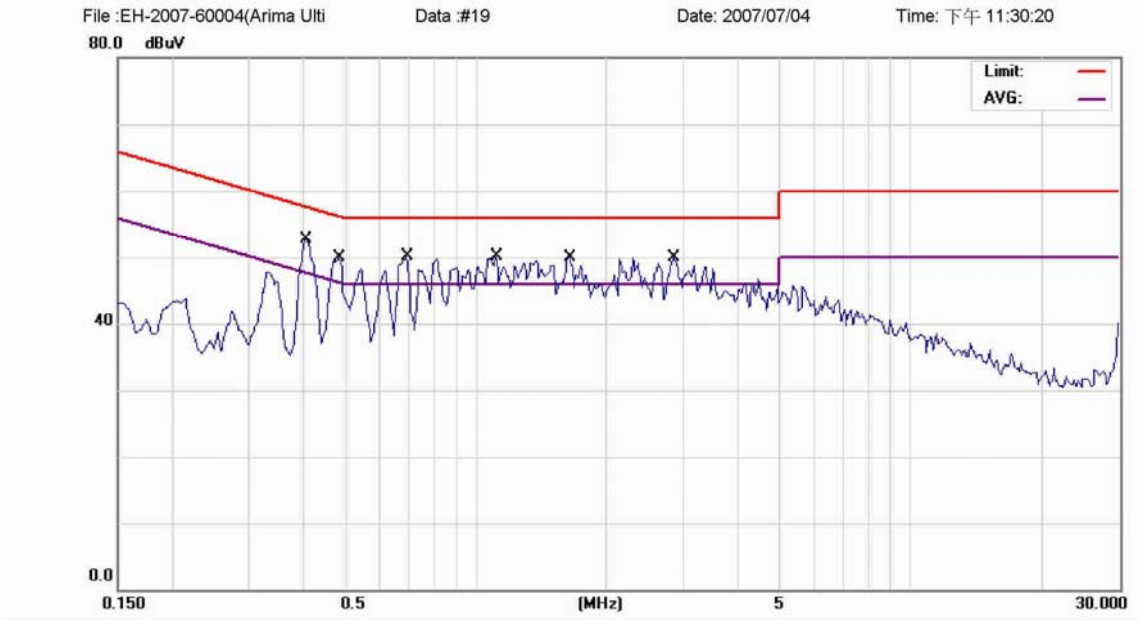
Phase: N
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4050	52.70	0.02	52.72	57.75	-5.03	QP	
2	*	0.4050	43.20	0.02	43.22	47.75	-4.53	AVG	
3		0.4850	48.90	0.02	48.92	56.25	-7.33	QP	
4		0.4850	39.80	0.02	39.82	46.25	-6.43	AVG	
5		0.6800	49.20	0.02	49.22	56.00	-6.78	QP	
6		0.6800	38.80	0.02	38.82	46.00	-7.18	AVG	
7		1.1000	48.70	0.01	48.71	56.00	-7.29	QP	
8		1.1000	38.40	0.01	38.41	46.00	-7.59	AVG	
9		1.5950	45.90	0.03	45.93	56.00	-10.07	QP	
10		1.5950	36.40	0.03	36.43	46.00	-9.57	AVG	
11		2.1800	46.70	0.04	46.74	56.00	-9.26	QP	
12		2.1800	35.81	0.04	35.85	46.00	-10.15	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMAV Link			Test Date:	Jul. 04, 2007
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jason

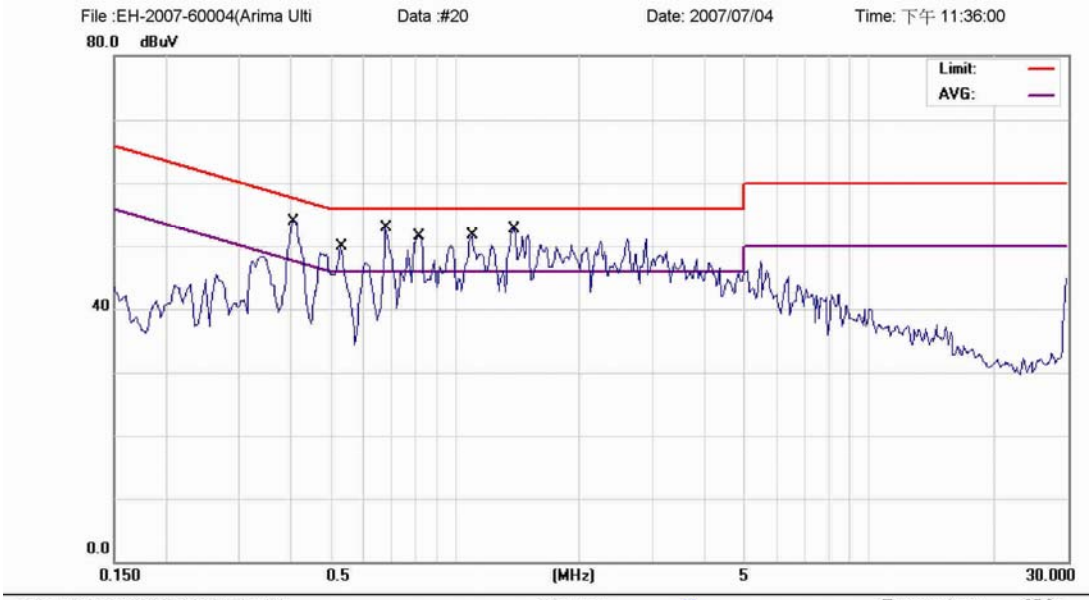


Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone (iMate)
M/N: Ultimate8150
Note: WCDMA B5 Link//BT+WLAN Link Mode

Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4050	52.10	0.02	52.12	57.75	-5.63	QP	
2	*	0.4050	43.20	0.02	43.22	47.75	-4.53	AVG	
3		0.4850	48.40	0.02	48.42	56.25	-7.83	QP	
4		0.4850	39.80	0.02	39.82	46.25	-6.43	AVG	
5		0.6950	49.10	0.02	49.12	56.00	-6.88	QP	
6		0.6950	39.20	0.02	39.22	46.00	-6.78	AVG	
7		1.1150	48.70	0.01	48.71	56.00	-7.29	QP	
8		1.1150	36.90	0.01	36.91	46.00	-9.09	AVG	
9		1.6400	46.90	0.03	46.93	56.00	-9.07	QP	
10		1.6400	36.10	0.03	36.13	46.00	-9.87	AVG	
11		2.8550	46.70	0.05	46.75	56.00	-9.25	QP	
12		2.8550	36.51	0.05	36.56	46.00	-9.44	AVG	



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone (iMate)
M/N: Ultimate8150
Note: WCDMA B5 Link//BT+WLAN Link Mode

Phase: N
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4050	51.60	0.02	51.62	57.75	-6.13	QP	
2		0.4050	41.20	0.02	41.22	47.75	-6.53	AVG	
3		0.5300	49.70	0.02	49.72	56.00	-6.28	QP	
4		0.5300	39.50	0.02	39.52	46.00	-6.48	AVG	
5		0.6800	48.70	0.02	48.72	56.00	-7.28	QP	
6		0.6800	36.90	0.02	36.92	46.00	-9.08	AVG	
7		0.8150	47.90	0.01	47.91	56.00	-8.09	QP	
8		0.8150	36.70	0.01	36.71	46.00	-9.29	AVG	
9		1.1000	48.60	0.01	48.61	56.00	-7.39	QP	
10		1.1000	36.70	0.01	36.71	46.00	-9.29	AVG	
11		1.3850	47.90	0.02	47.92	56.00	-8.08	QP	
12		1.3850	35.80	0.02	35.82	46.00	-10.18	AVG	