

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: HSUPA USB Modem

Brand Name: ZTE

Model Name: MF636

FCC ID: Q78-ZTEMF636

Report No.: EH/2008/60003-01

Issue Date: May 27, 2009

FCC Rule Part: 2, 22H & 24E

Prepared for: ZTE CORPORATION
ZTE Plaza, K eji Road South, Hi-Tech
Industrial Park, Nanshan District, Shenzhen,
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Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: ZTE CORPORATION
 ZTE Plaza, K eji Road South, Hi-Tech
 Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057,
 P.R.China

Product Name: HSUPA USB Modem

Brand Name: ZTE

FCC ID: Q78-ZTEMF636

Model No.: MF636

Model Difference: N/A

File Number: EH/2008/60003-01

Date of test: Jun. 07, 2008 ~Nov. 24, 2008; May 26, 2009 ~May 27, 2009

Date of EUT Received: Jun. 06, 2008; May 26, 2009

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory 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-B-2002 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

May 27, 2009

Sky Wang / Asst. Supervisor

Prepared By:

Elisa Chen

Date

May 27, 2009

Elisa Chen / Supervisor

Approved By:

Vincent Su

Date

May 27, 2009

Vincent Su / Manager

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Version

Version No.	Date	Description
00	May 27, 2009	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	HSUPA USB Modem	
Brand Name:	ZTE	
Model Name:	MF636	
Model Difference:	N/A	
Simple Hands-Free (SHF):	N/A	
Data Cable (USB):	One provide, Model: N/A	
Power Supply	5Vdc form USB Port.	
	Battery:	N/A
	Adapter:	N/A

GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power	GSM/GPRS 850	824 MHz– 849MHz	33 dBm
	EDGE 850	824 MHz– 849MHz	27 dBm
	GSM/GPRS 1900	1850MHz – 1910MHz	30 dBm
	EDGE 1900	1850MHz – 1910MHz	26 dBm
	WCDMA/HSUPA. Band II	1850MHz – 1910MHz	24 dBm
	WCDMA/HSUPA Band V	824 MHz– 849MHz	24 dBm
Type of Emission	GSM: 300KGXW EDGE: 300KG7W WCDMA: 4M20F9W		
IMEI	354783020000820		
Hardware Version	P673M2-2.0.0		
Software Version	BD_P673M2V1.0.1B03		
Antenna Designation	Type Antenna, 0dBi		

This test report applies for GSM/EDGE 850, GSM/EDGE 1900, WCDMA/ HSUPA Band II, WCDMA/ HSUPA Band V.

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1.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: Q78-ZTEMF636** filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures documented 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.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA/HSUPA) was used for EUT and Base station setting.

1.3. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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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 0.8 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 and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4-2003.

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2.4. Configuration of Tested System

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

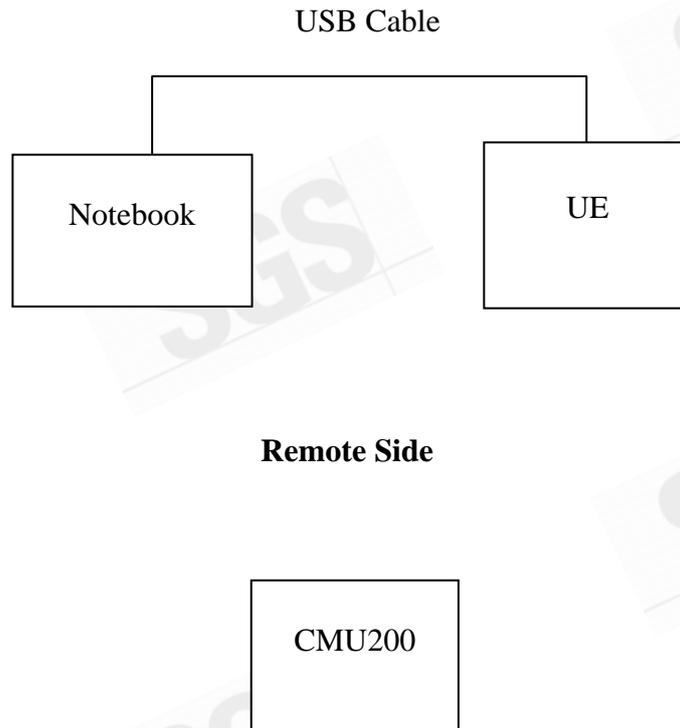


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	Notebook	IBM	T40	99HCYF4	N/A	Shielded
2.	USB Cable	N/A	N/A	N/A	N/A	N/A
3.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded

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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 lie down position (H) for both GSM/GPRS/EDGE and WCDMA/ HSUPA Band II and V were reported.

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5. RF POWER OUTPUT MEASUREMENT

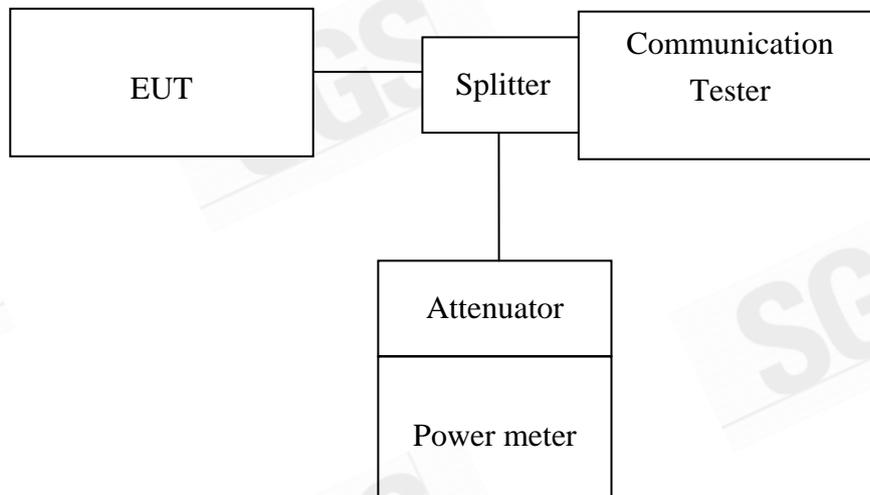
5.1. Standard Applicable

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. The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA/ HSUPA) was used for EUT and Base station setting.

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	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2008	07/04/2009
Splitter	Agilent	11636B	N/A	07/05/2008	07/04/2009
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

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5.5. Measurement Result

Mode		GPRS / EGPRS							
		1		2		3		4	
Band	Channel	GMSK	8PSK	GMSK	8PSK	GMSK	8PSK	GMSK	8PSK
850	128	33.6	25.5	30.1	24.1	28.7	22.0	27.8	21.1
	189	33.7	25.5	30.1	24.1	28.8	22.1	27.9	21.1
	251	33.5	25.4	29.7	23.9	28.6	21.9	27.9	21.0
1900	512	27.9	25.6	27.3	23.3	25.4	21.3	24.4	20.3
	661	27.9	25.6	27.3	23.4	25.4	21.4	24.3	20.4
	810	27.8	25.5	27.4	23.3	25.5	21.3	24.3	20.3

Mode		HSUPA					WCDMA
Subtests		1	2	3	4	5	
Band	Channel	-0	-2	-1	-2	-0	
II	9262	19.8	18.4	19.3	18.3	20.1	20.8
	9400	19.8	18.5	19.4	18.2	20.3	20.8
	9538	20.3	18.6	19.3	18.4	19.9	21.2
V	4132	21.1	18.3	19.7	18.5	21.0	21.4
	4182	21.0	19.0	20.3	18.4	19.9	21.5
	4233	20.7	19.0	20.0	18.4	19.9	21.5

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6. ERP, EIRP MEASUREMENT

6.1. Standard Applicable

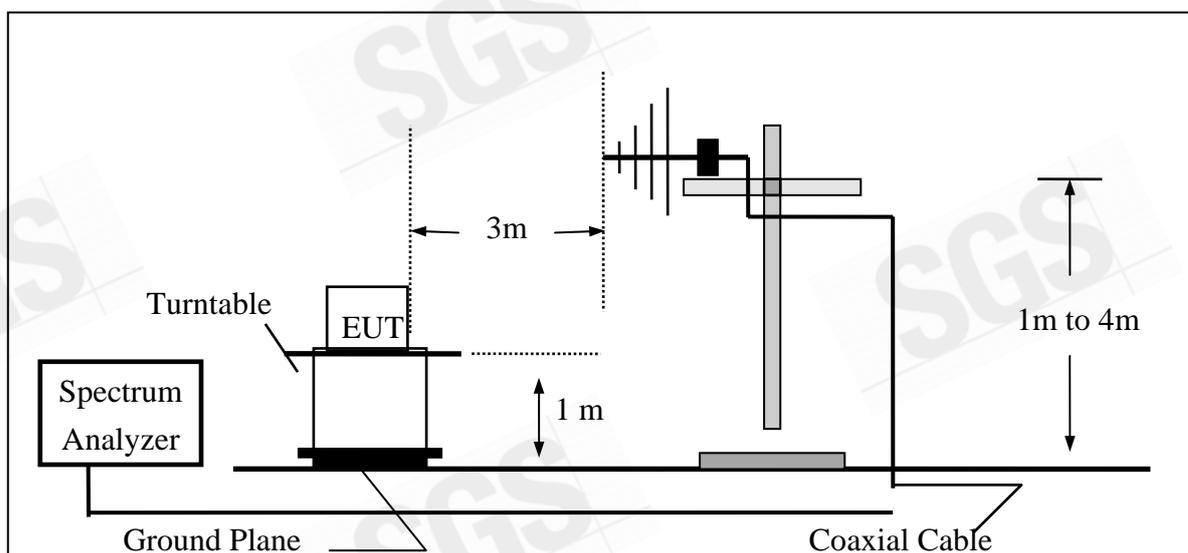
According to FCC §2.1046

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)

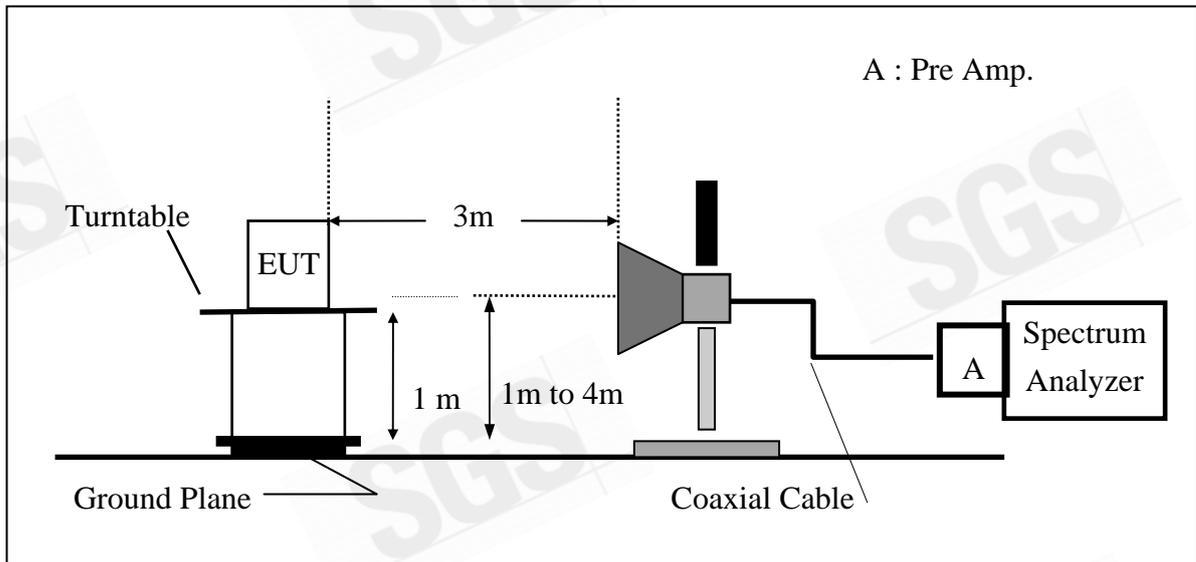
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



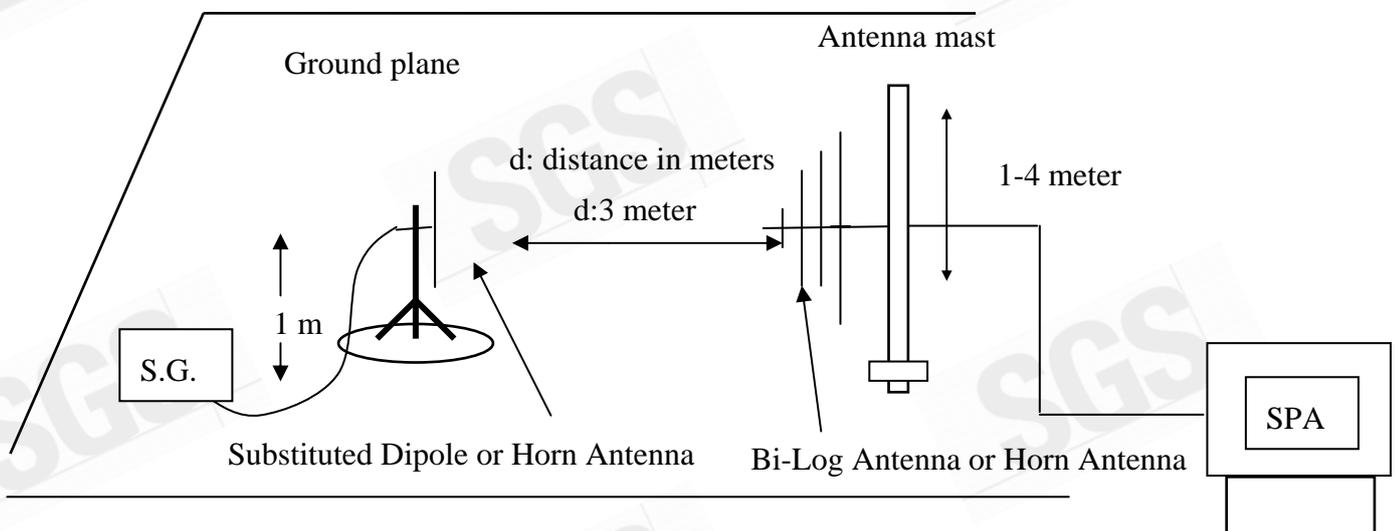
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3. Measurement Procedure

The EUT was placed on a 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 in 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 824.2~848.8MHz were measured using a substitution method. The EUT was replaced by a 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 a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA/HSUPA) was used for EUT and Base station setting.

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6.4. Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2008	07/09/2010
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2008	07/09/2010
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309	01/22/2008	01/21/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Signal Generator	R&S	SMR40	100210	01/22/2008	01/21/2010
Signal Generator	Agilent	E4438C	MY45093613	05/22/2009	05/21/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2008	07/04/2009
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
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	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009

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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	121.00	33.68	-7.87	3.64	22.16	38.45
				H	129.07	41.41	-7.87	3.64	29.90	38.45
	836.60	190	H	V	123.29	36.26	-7.88	3.70	24.69	38.45
				H	129.84	42.50	-7.88	3.70	30.93	38.45
	848.80	251	H	V	124.71	37.97	-7.88	3.75	26.34	38.45
				H	130.56	43.54	-7.88	3.75	31.91	38.45

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	119.02	12.06	9.90	5.41	16.55	33.00
				H	125.58	18.69	9.90	5.41	23.18	33.00
	1880.00	661	H	V	118.64	11.69	9.99	5.46	16.22	33.00
				H	125.76	18.89	9.99	5.46	23.42	33.00
	1909.80	810	H	V	118.15	11.21	10.08	5.51	15.78	33.00
				H	125.27	18.42	10.08	5.51	22.98	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=250 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz
- (2) Peak detector was used during test.

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6.6. 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)
EDGE 850	824.20	128	H	V	116.64	29.32	-7.87	3.64	17.80	38.45
				H	123.43	35.77	-7.87	3.64	24.26	38.45
	836.60	190	H	V	117.60	30.57	-7.88	3.70	19.00	38.45
				H	124.19	36.85	-7.88	3.70	25.28	38.45
	848.80	251	H	V	119.25	32.51	-7.88	3.75	20.88	38.45
				H	125.10	38.08	-7.88	3.75	26.45	38.45

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)
EDGE 1900	1850.20	512	H	V	115.61	8.65	9.90	5.41	13.14	33.00
				H	122.81	15.92	9.90	5.41	20.41	33.00
	1880.00	661	H	V	115.10	8.15	9.99	5.46	12.68	33.00
				H	122.14	15.27	9.99	5.46	19.80	33.00
	1909.80	810	H	V	114.20	7.26	10.08	5.51	11.83	33.00
				H	121.24	14.39	10.08	5.51	18.95	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=250 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz
- (2) Peak detector was used during test.

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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 Band II	1852.40	9262	H	V	104.64	-2.32	9.90	5.41	2.18	33.00
				H	117.43	10.54	9.90	5.41	15.04	33.00
	1880.00	9400	H	V	108.65	1.70	9.99	5.46	6.23	33.00
				H	119.73	12.86	9.99	5.46	17.39	33.00
	1907.60	9538	H	V	109.21	2.27	10.07	5.51	6.84	33.00
				H	118.10	11.24	10.07	5.51	15.81	33.00

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 Band V	826.40	4132	H	V	107.52	20.25	-7.88	3.65	8.72	38.45
				H	113.85	26.25	-7.88	3.65	14.72	38.45
	836.00	4180	H	V	106.88	19.84	-7.88	3.69	8.27	38.45
				H	113.03	25.68	-7.88	3.69	14.11	38.45
	846.60	4233	H	V	106.86	20.07	-7.88	3.74	8.45	38.45
				H	112.67	25.59	-7.88	3.74	13.97	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=250 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz
- (2) Peak detector was used during test.

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6.8 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)
HSUPA Band II	1852.40	9262	H	V	108.65	1.69	9.90	5.41	6.19	33.00
				H	120.61	13.72	9.90	5.41	18.22	33.00
	1880.00	9400	H	V	110.78	3.83	9.99	5.46	8.36	33.00
				H	121.01	14.14	9.99	5.46	18.67	33.00
	1907.60	9538	H	V	112.89	5.95	10.07	5.51	10.52	33.00
				H	120.59	13.73	10.07	5.51	18.30	33.00

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)
HSUPA Band V	826.40	4132	H	V	109.71	22.44	-7.88	3.65	10.91	38.45
				H	116.37	28.77	-7.88	3.65	17.24	38.45
	836.00	4180	H	V	108.74	21.70	-7.88	3.69	10.13	38.45
				H	115.04	27.69	-7.88	3.69	16.12	38.45
	846.60	4233	H	V	108.53	21.74	-7.88	3.74	10.12	38.45
				H	114.58	27.50	-7.88	3.74	15.88	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=250 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz
- (2) Peak detector was used during test.

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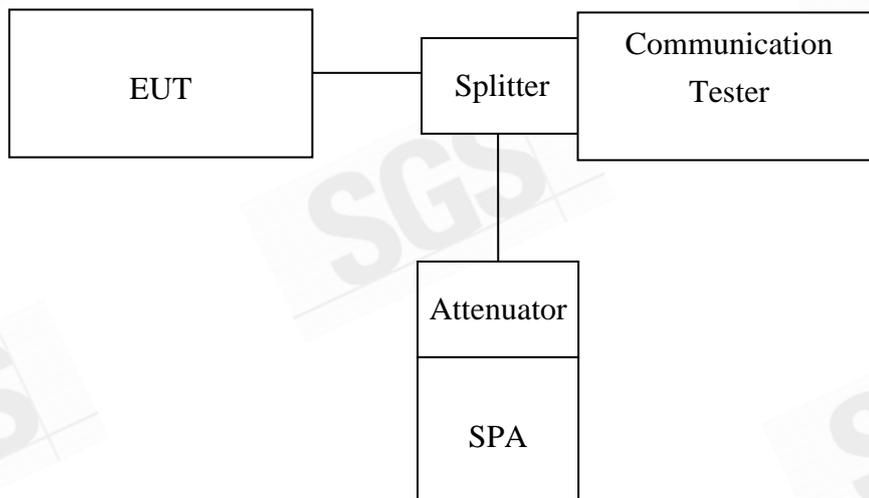
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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

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 (10/30KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/100KHz), -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.

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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	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2008	07/04/2009
Splitter	Agilent	11636B	N/A	07/05/2008	07/04/2009
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

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7.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2492
	836.60	190	0.2441
	848.80	251	0.2447

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2473
	1880.00	661	0.2465
	1909.80	810	0.2422

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2420
	836.60	190	0.2470
	848.80	251	0.2460

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2460
	1880.00	661	0.2452
	1909.80	810	0.2470

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA BAND II	1852.40	9262	4.1840
	1880.00	9400	4.1708
	1907.60	9538	4.1653

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA BAND V	826.40	4132	4.1645
	836.00	4180	4.1687
	846.60	4233	4.1792

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA BAND II	1852.40	9262	4.1742
	1880.00	9400	4.1493
	1907.60	9538	4.1591

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA BAND V	826.40	4132	4.1726
	836.00	4180	4.1556
	846.60	4233	4.1610

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Figure 7-1: GSM Channel Low

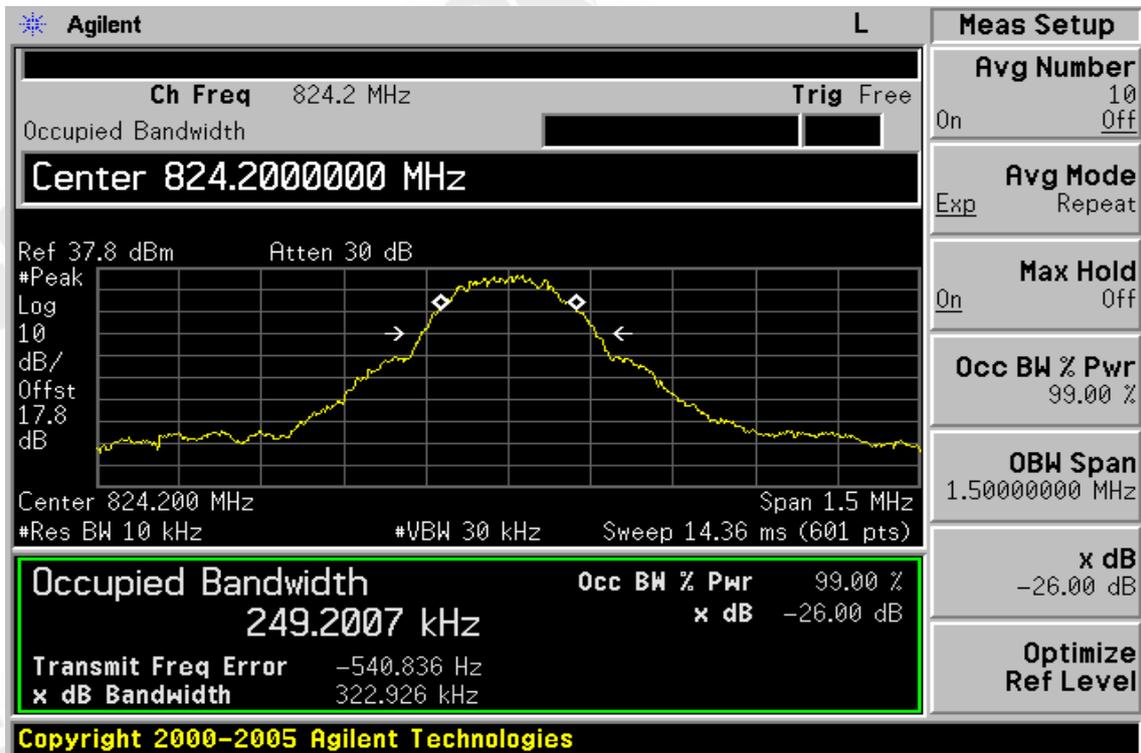
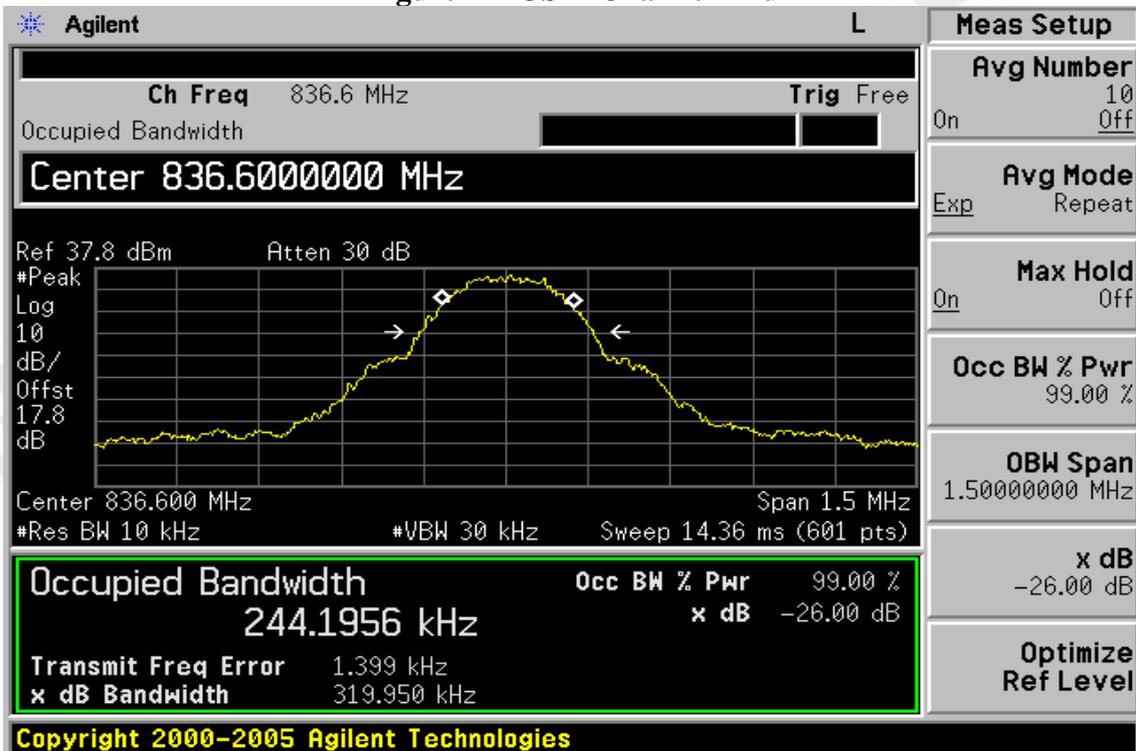


Figure 7-2 GSM Channel Mid



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Figure 7-3: GSM Channel High

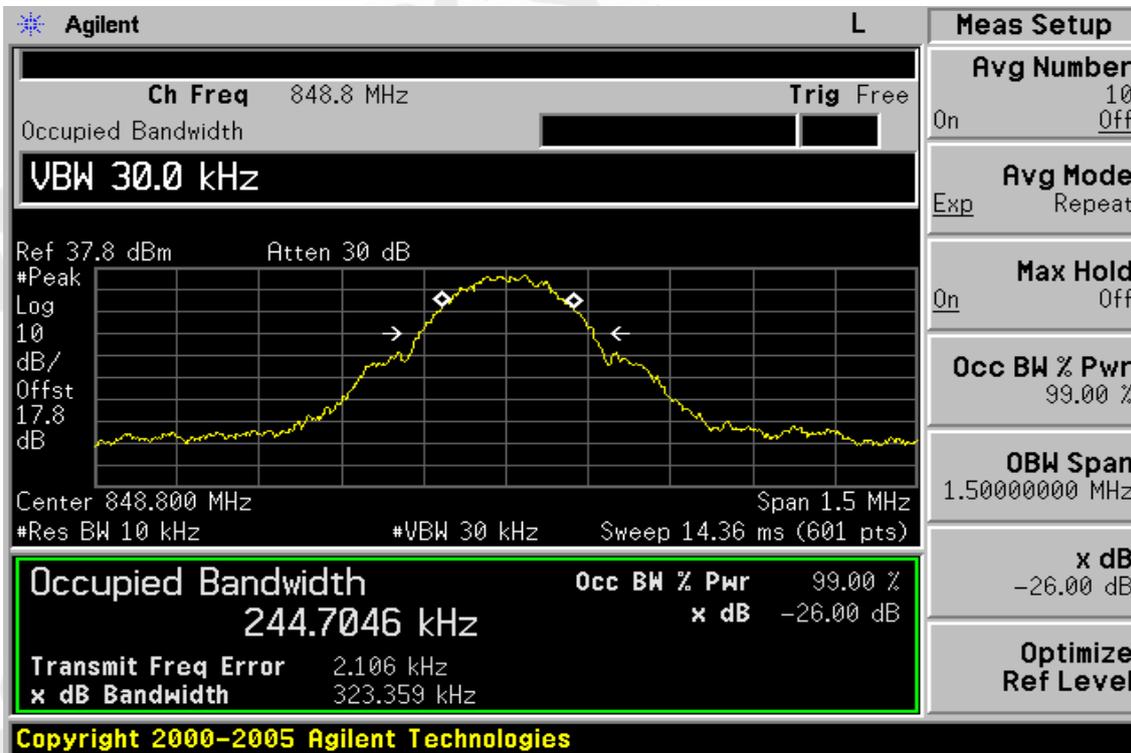
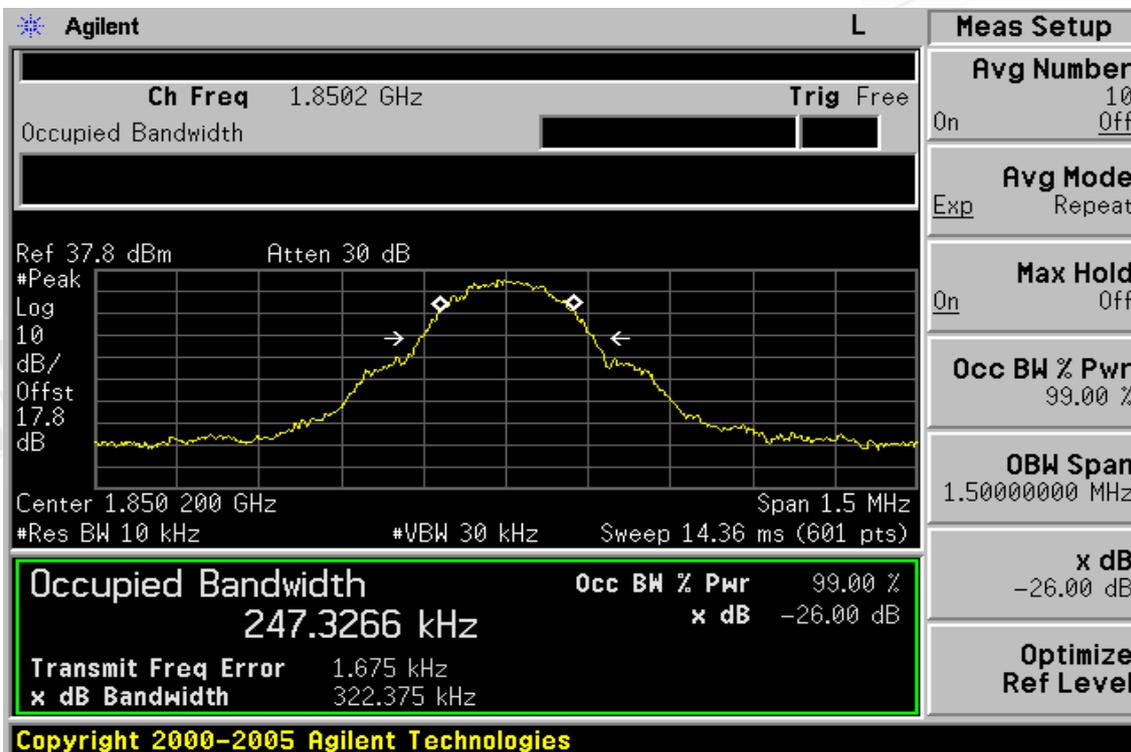


Figure 7-4: PCS Channel Low



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Figure 7-5 PCS Channel Mid

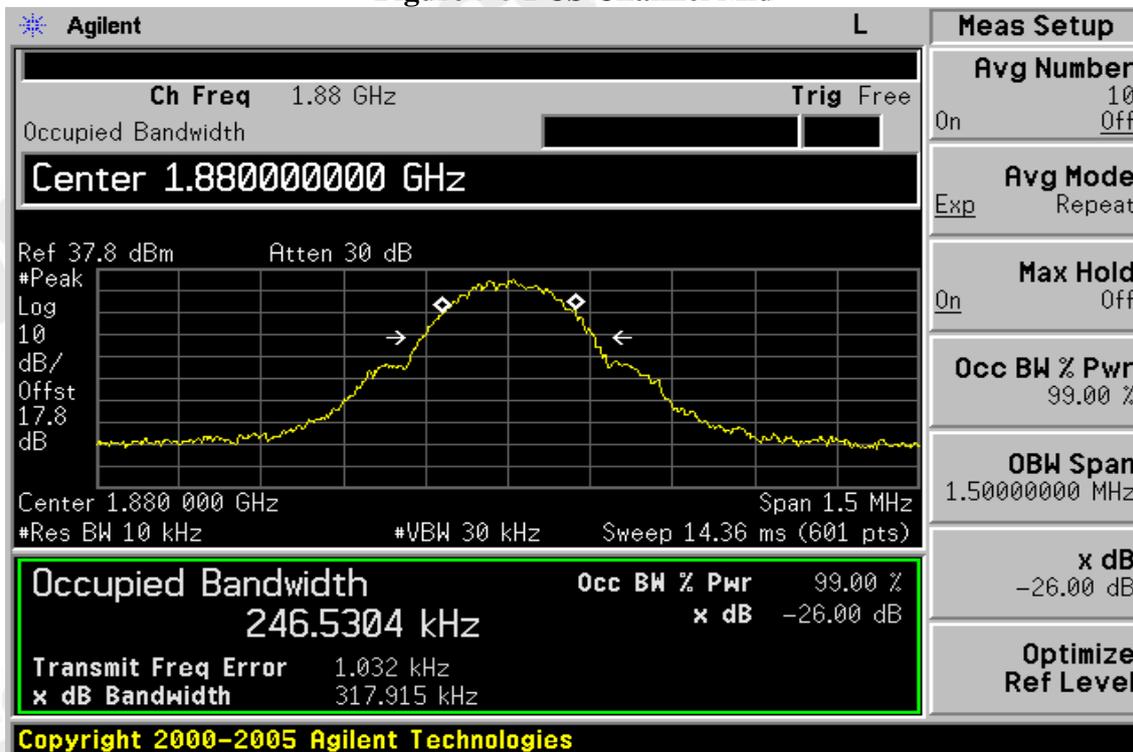
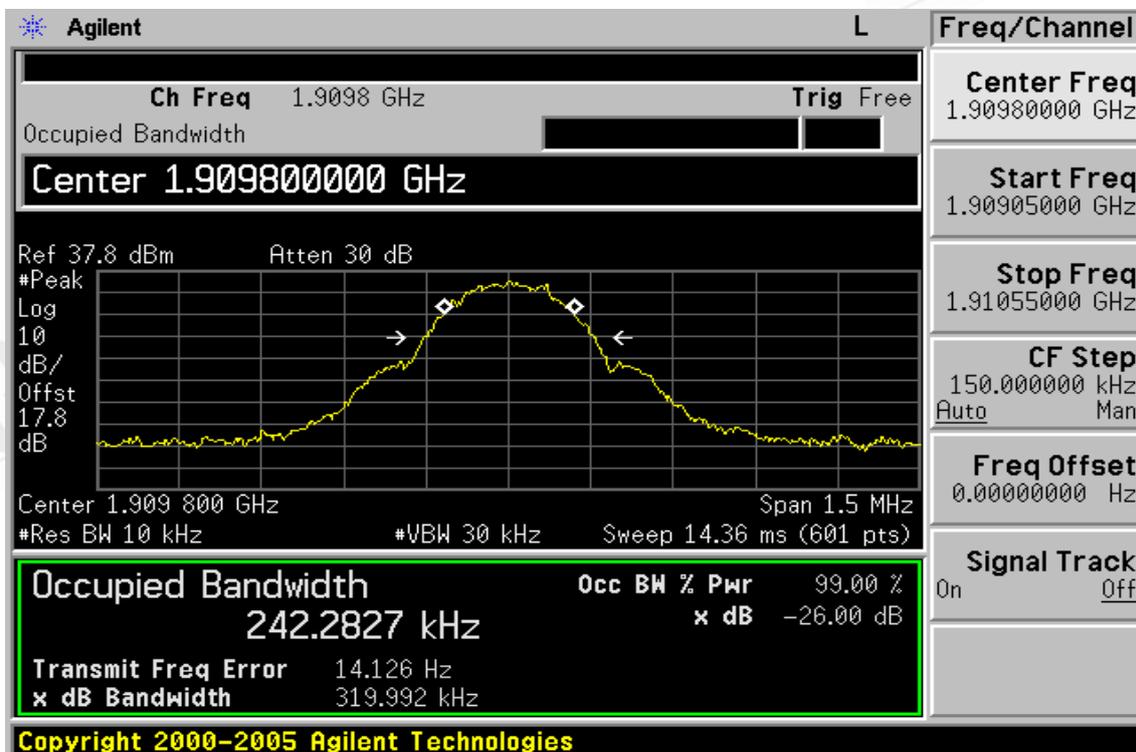


Figure 7-6: PCS Channel High



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Figure 7-7: EDGE 850 Channel Low

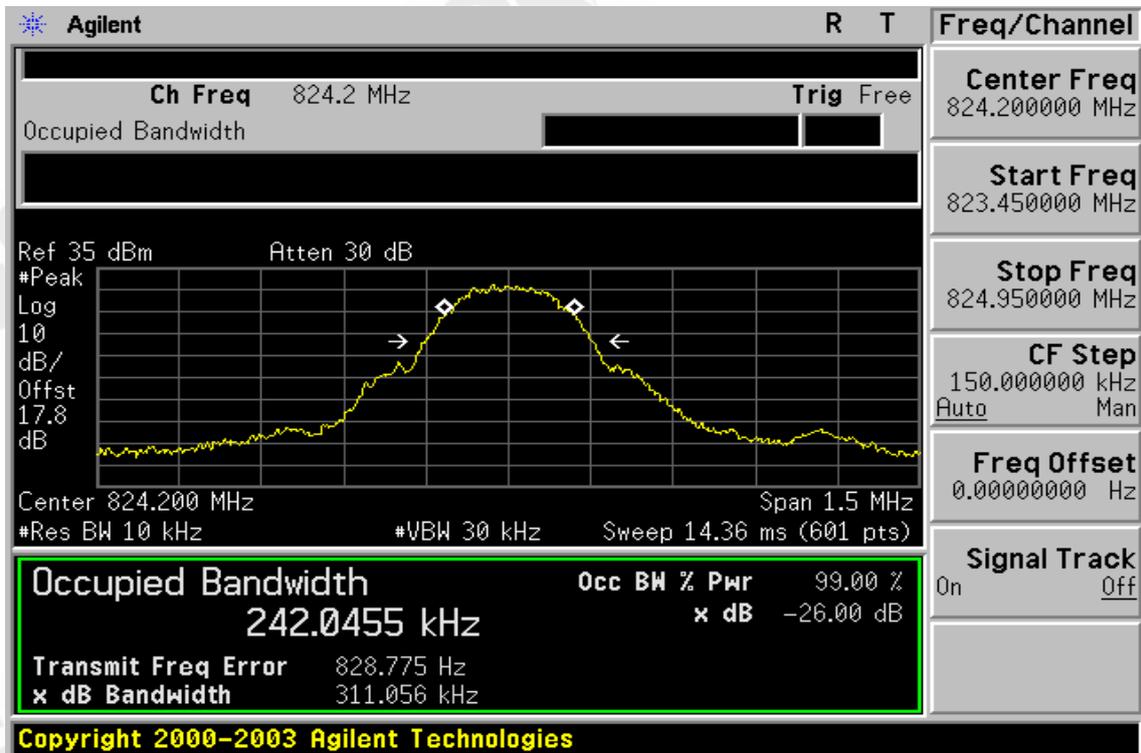
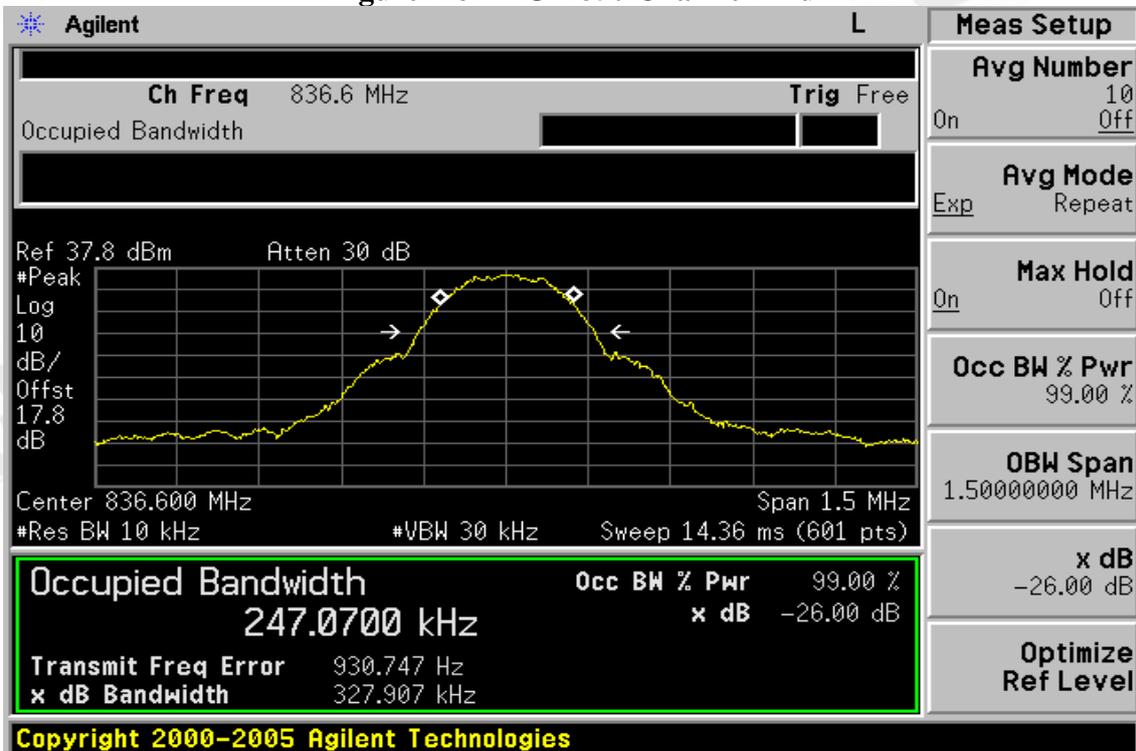


Figure 7-8 EDGE 850 Channel Mid



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Figure 7-9: EDGE 850 Channel High

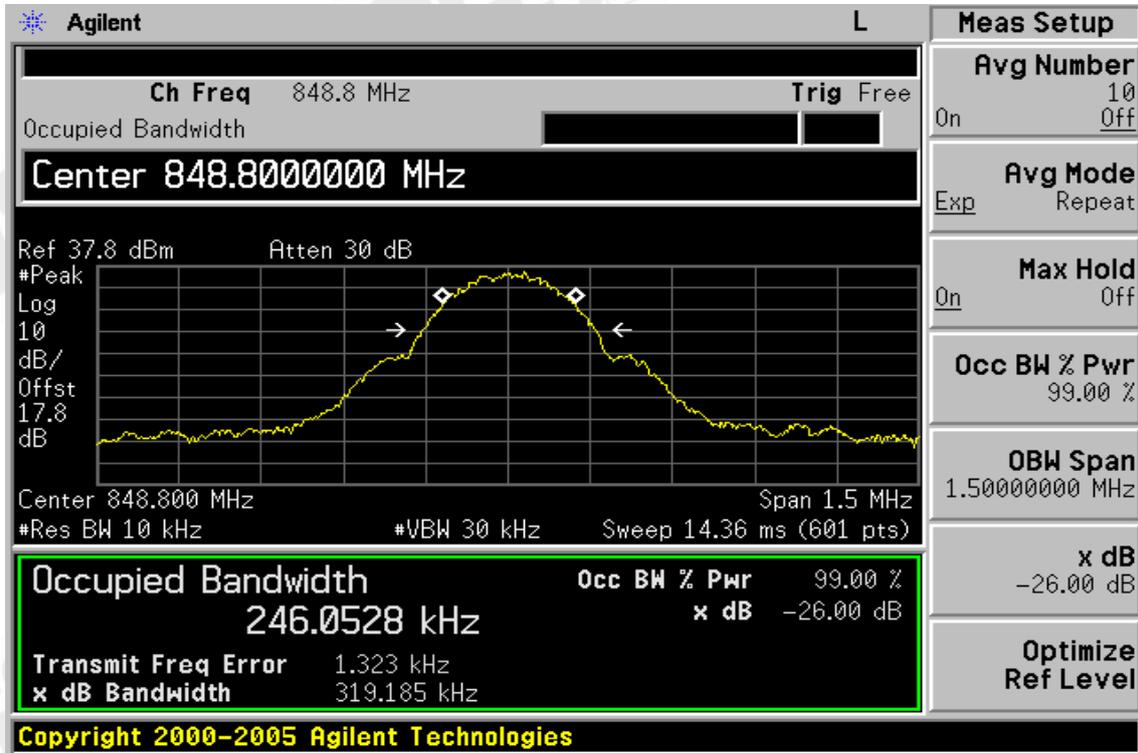
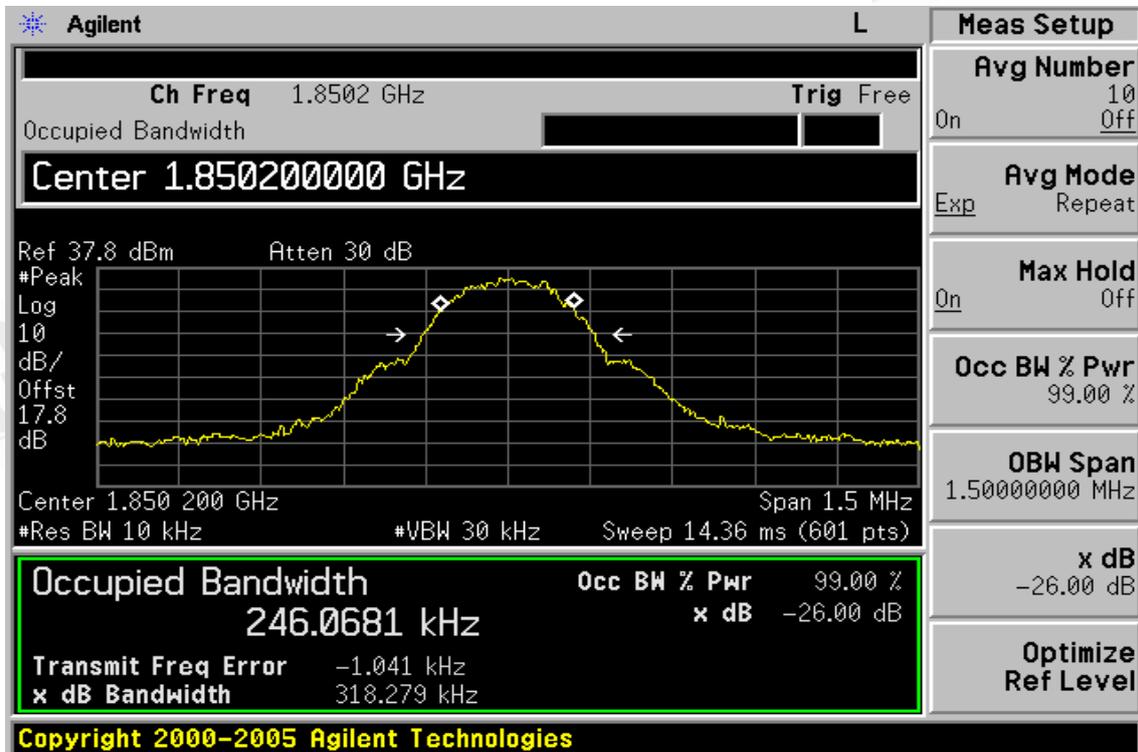


Figure 7-10: EDGE 1900 Channel Low



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Figure 7-11 EDGE 1900 Channel Mid

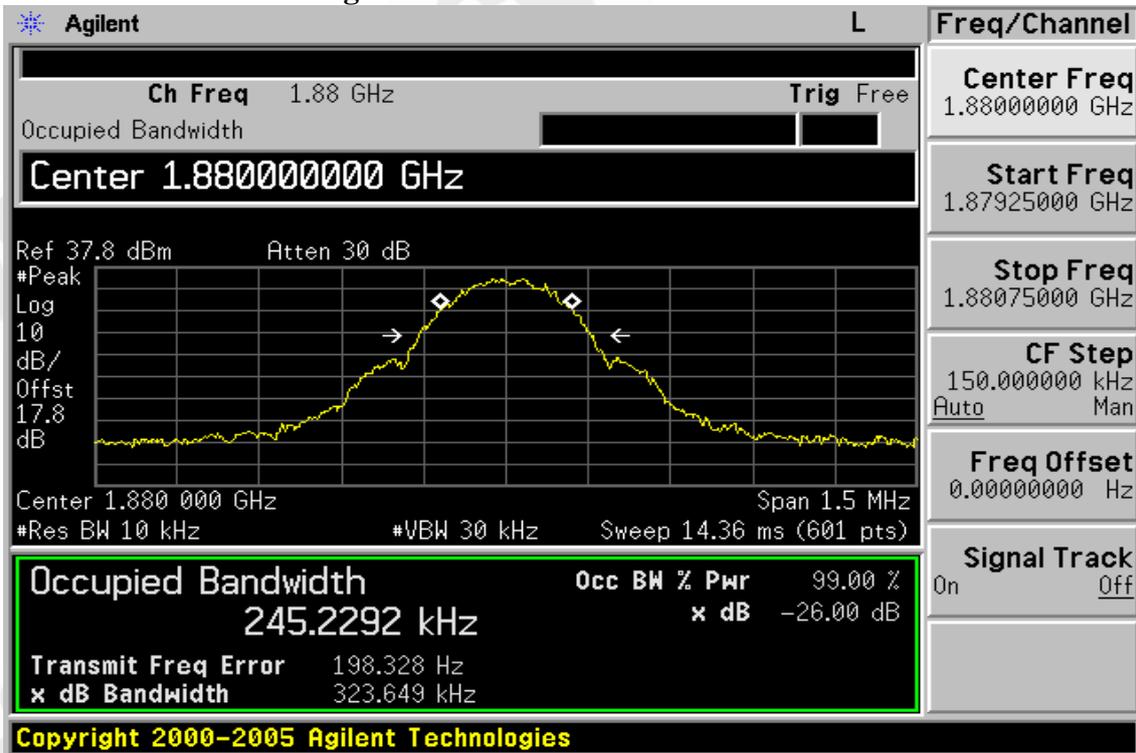
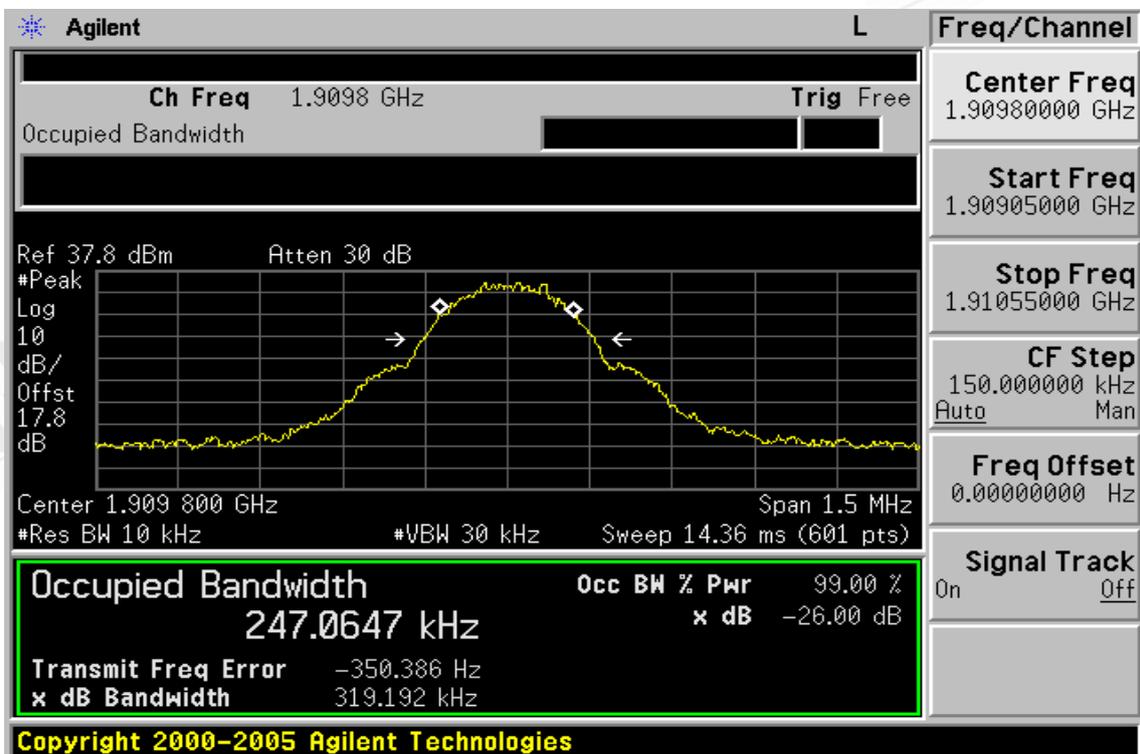


Figure 7-12: EDGE 1900 Channel High



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Figure 7-13: WCDMA BAND II Channel Low

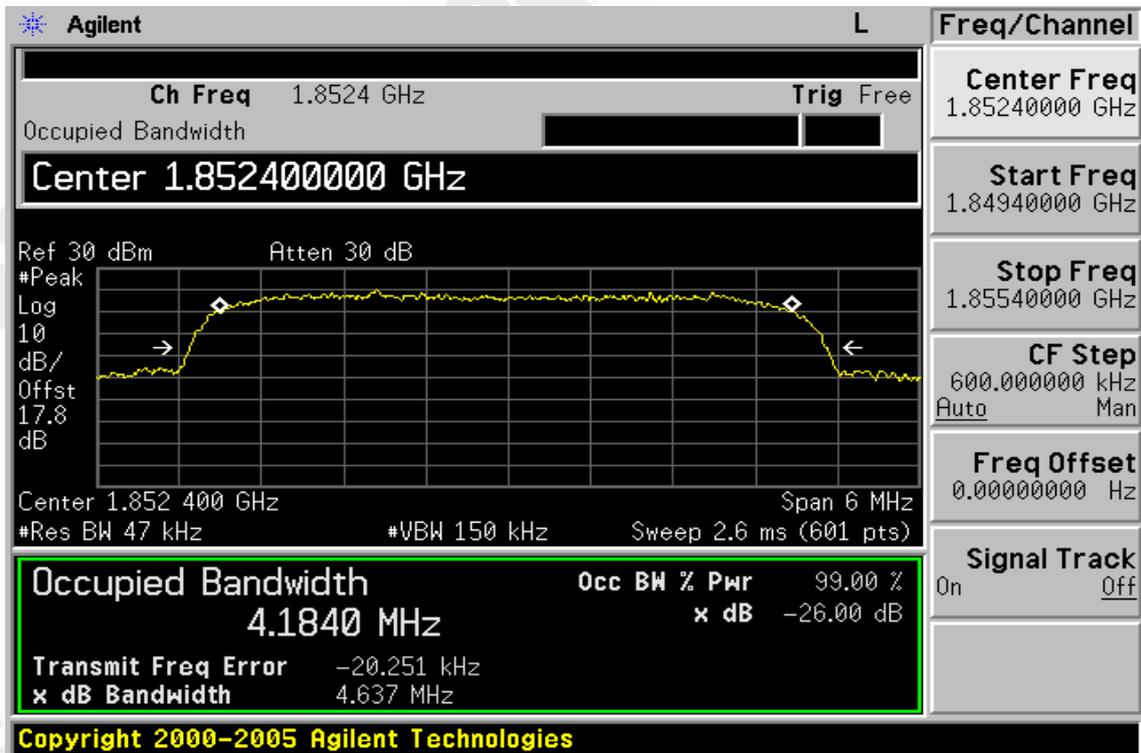
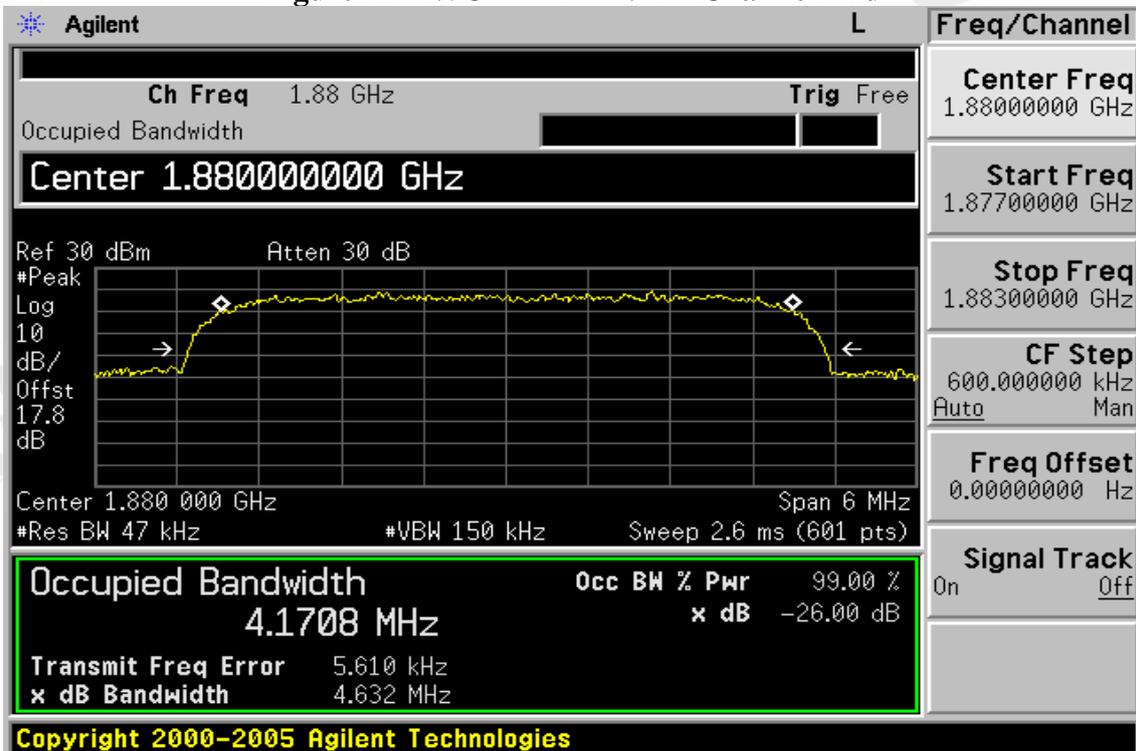


Figure 7-14 WCDMA BAND II Channel Mid



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Figure 7-15: WCDMA BAND II Channel High

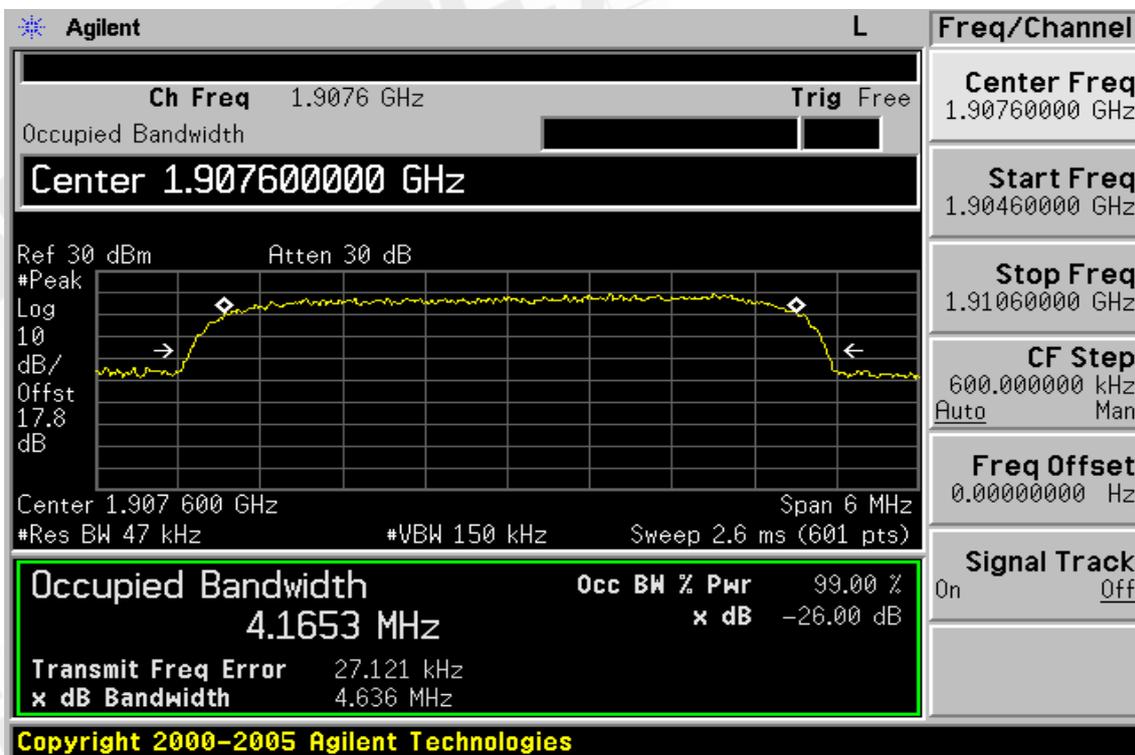
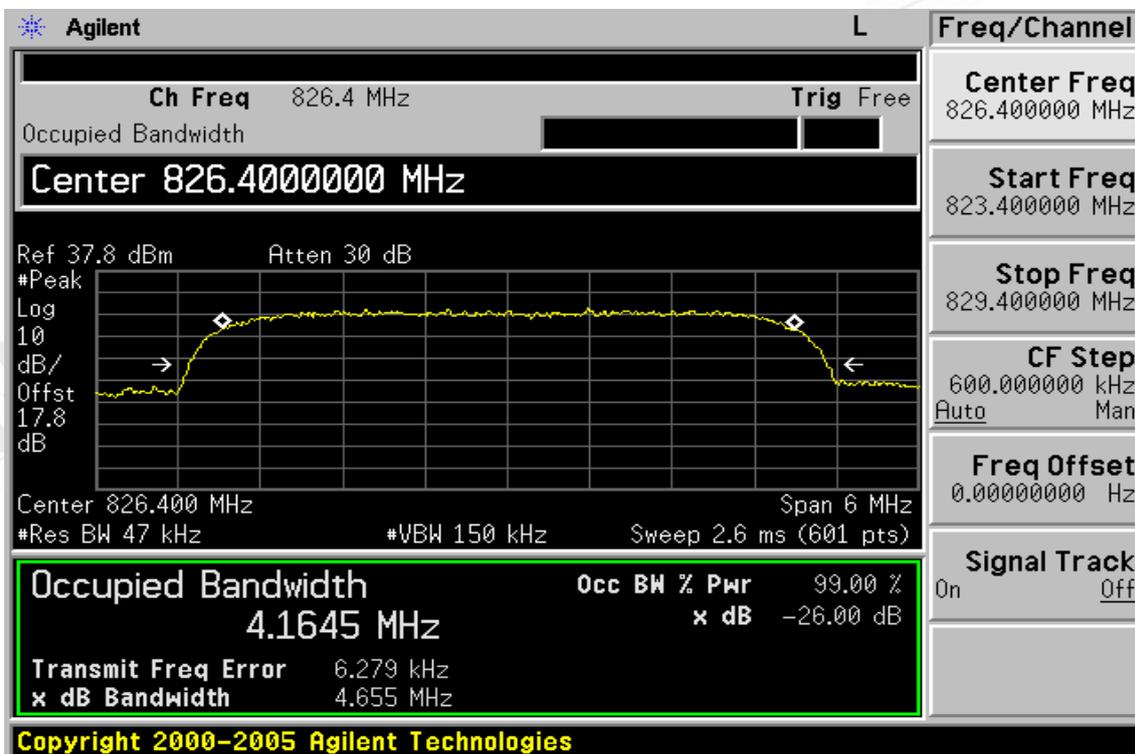


Figure 7-16: WCDMA BAND V Channel Low



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Figure 7-17 WCDMA BAND V Channel Mid

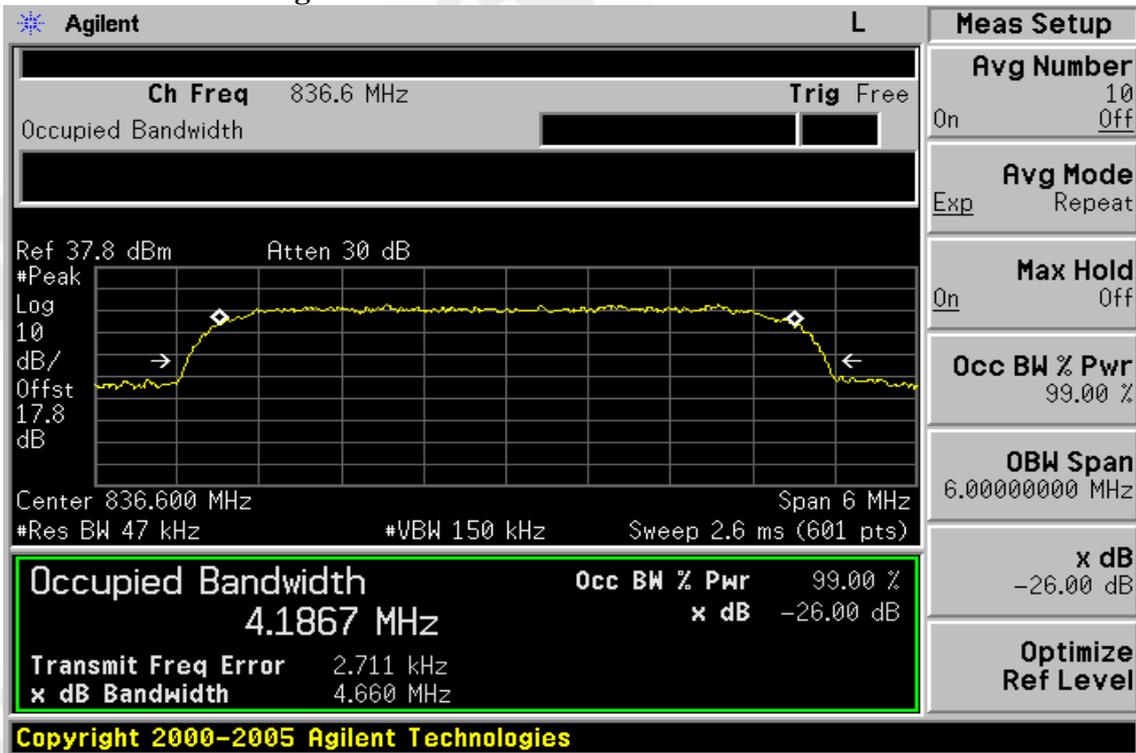
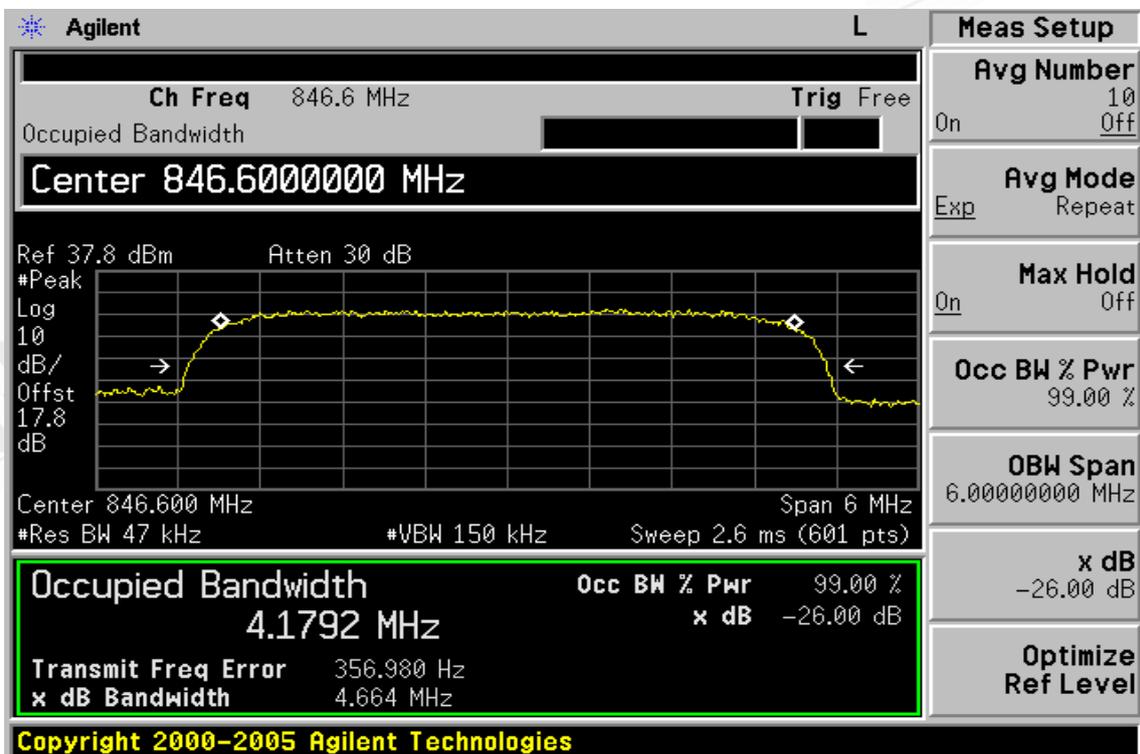


Figure 7-18: WCDMA BAND V Channel High



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Figure 7-19: HSUPA BAND II Channel Low

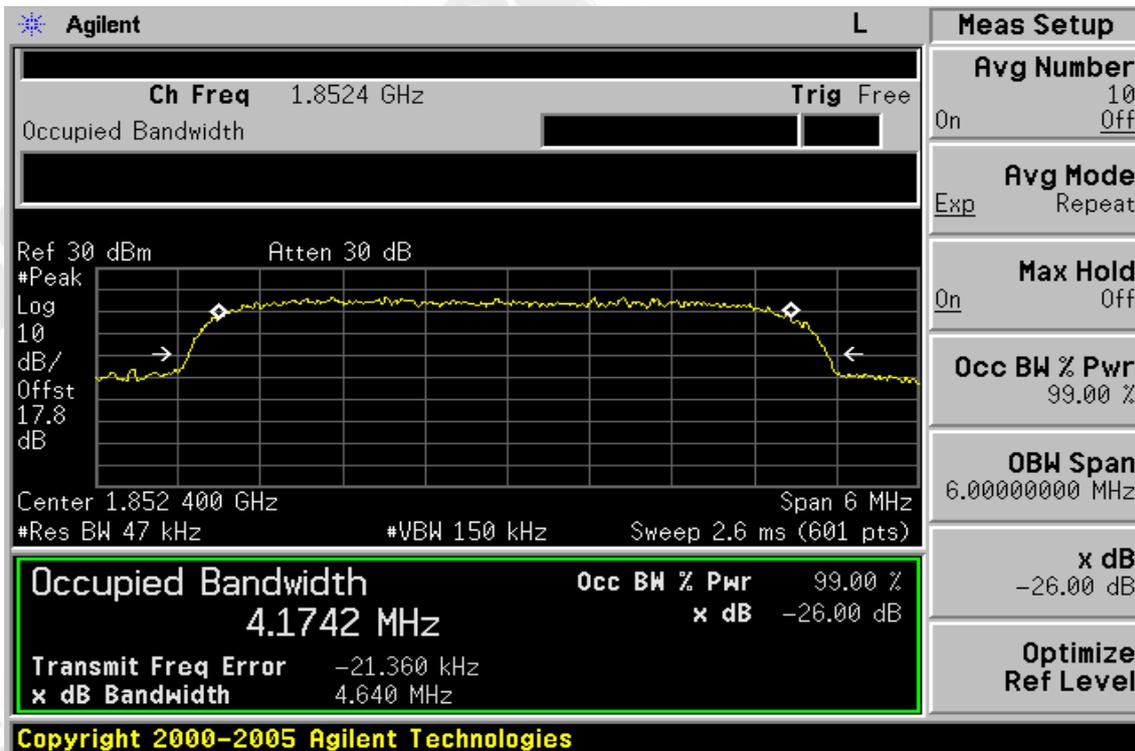
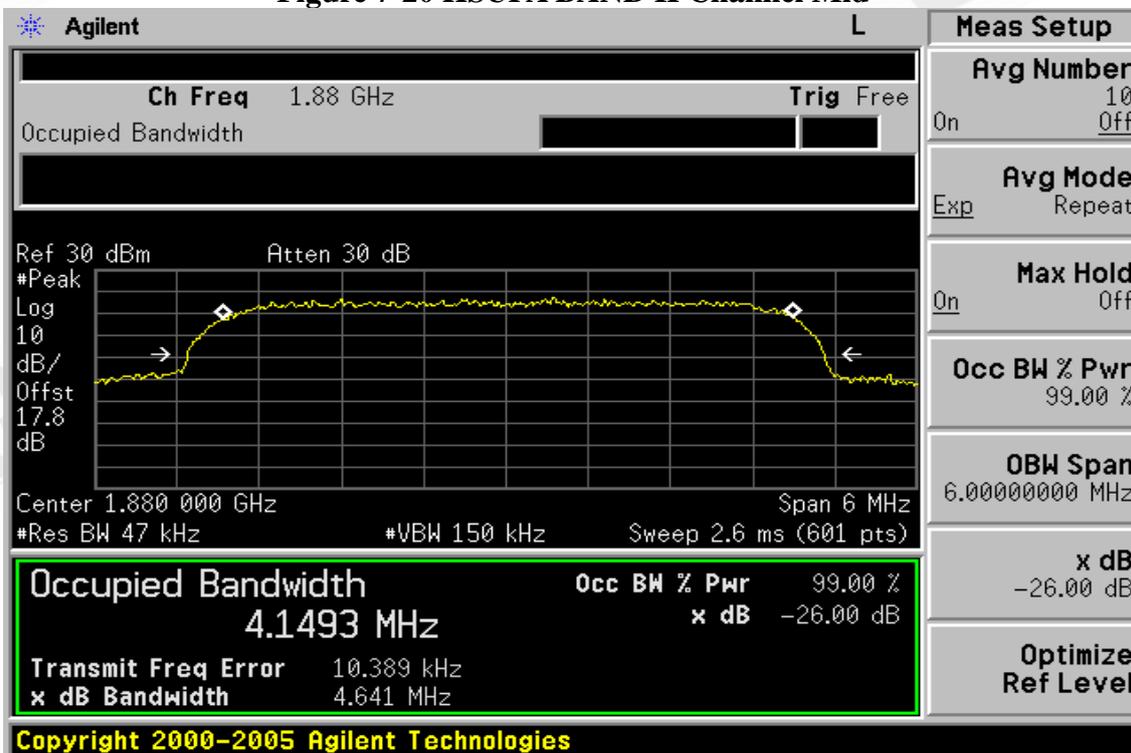


Figure 7-20 HSUPA BAND II Channel Mid



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Figure 7-21: HSUPA BAND II Channel High

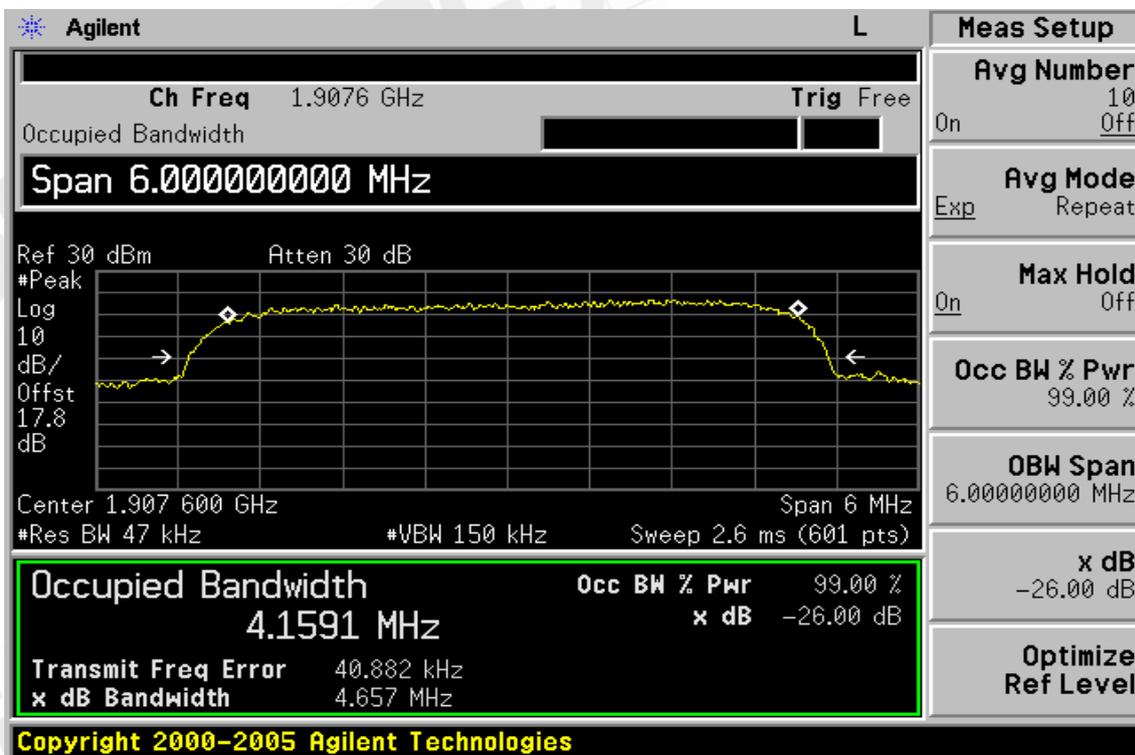
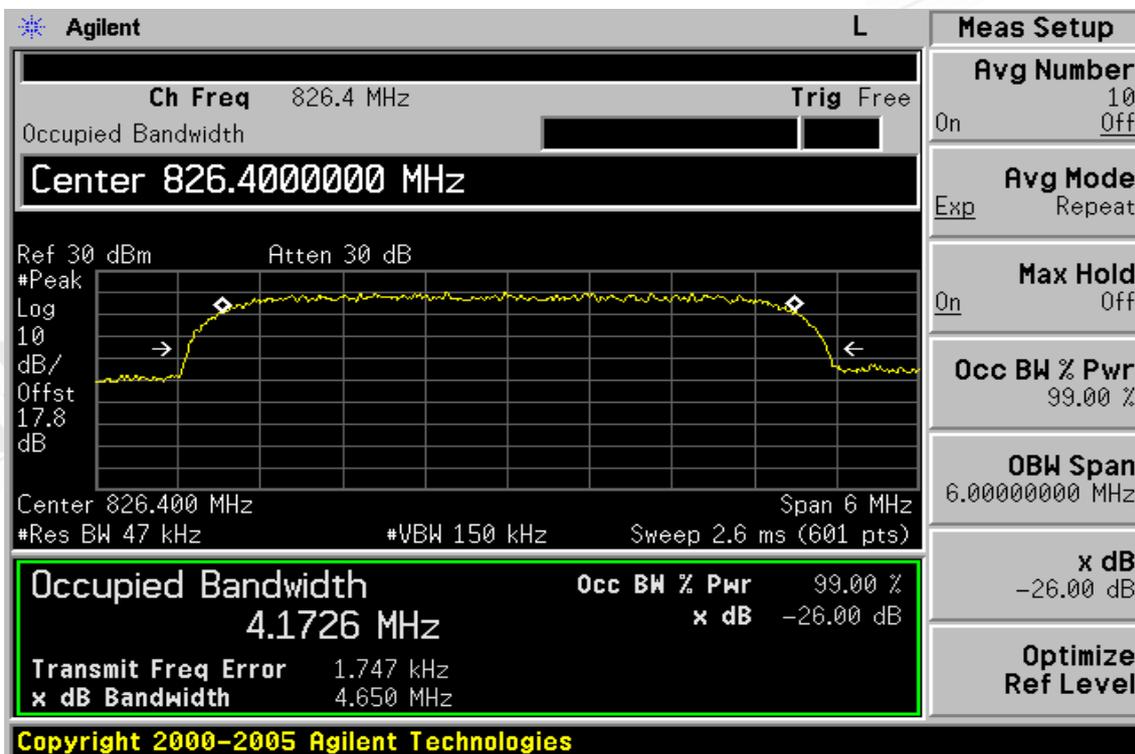


Figure 7-22: HSUPA BAND V Channel Low



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Figure 7-23 HSUPA BAND V Channel Mid

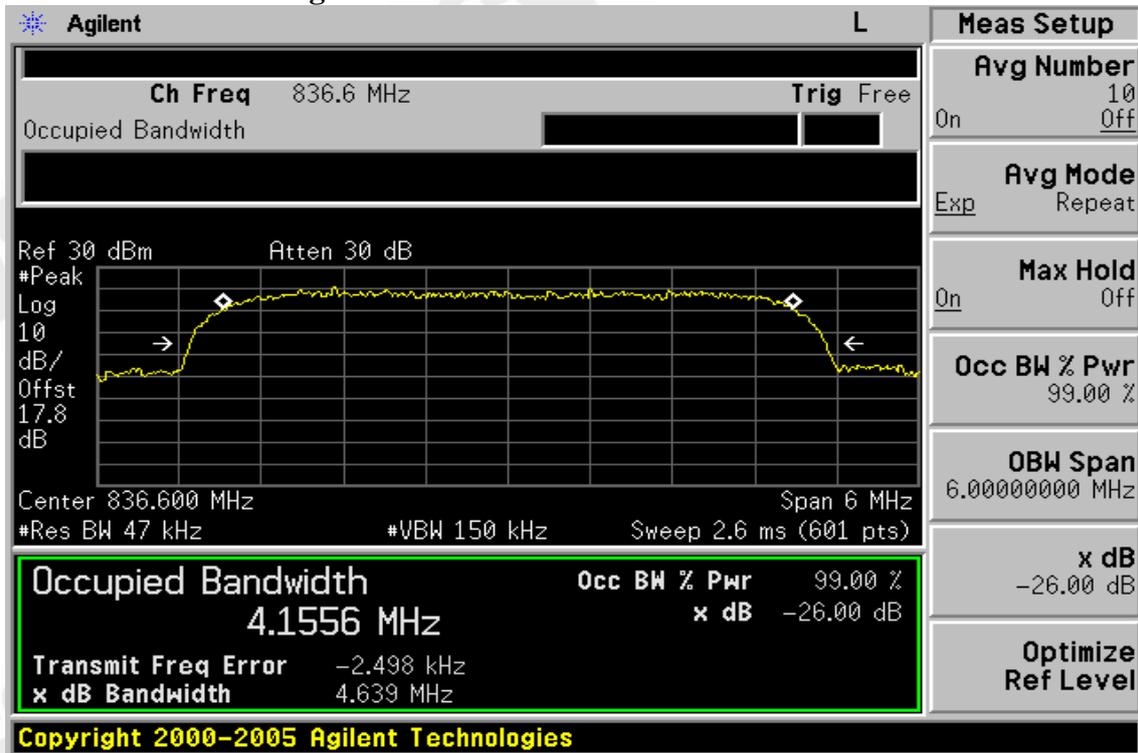
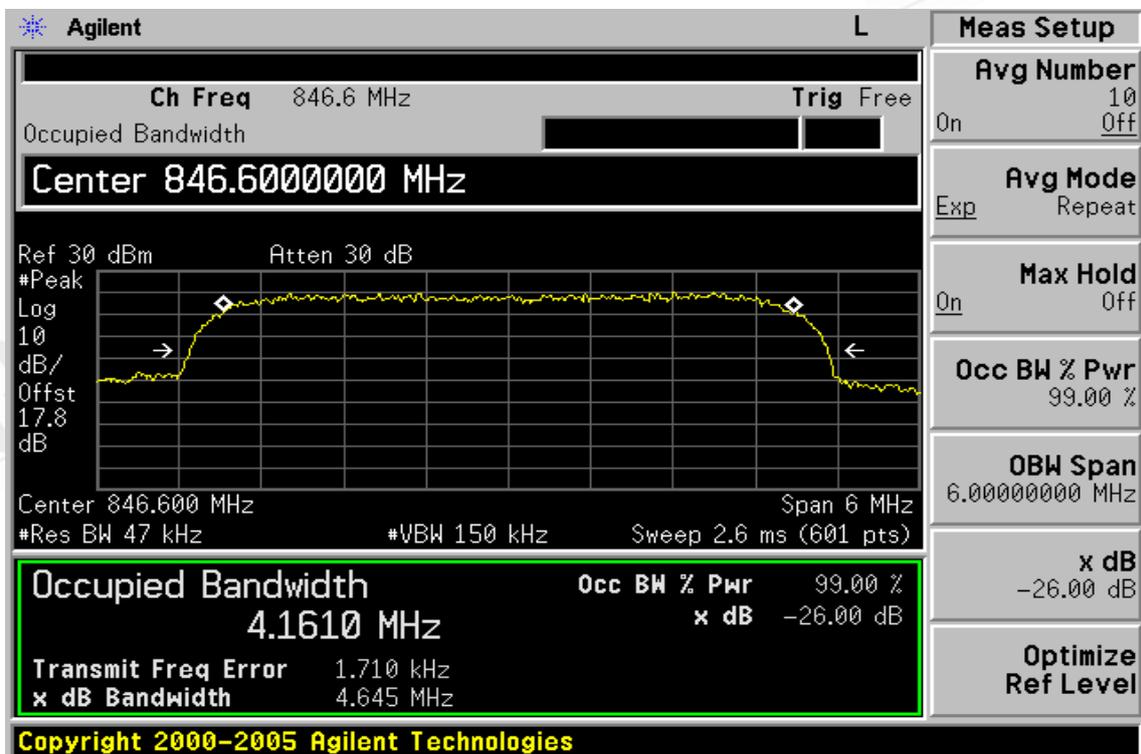


Figure 7-24: HSUPA BAND V Channel High



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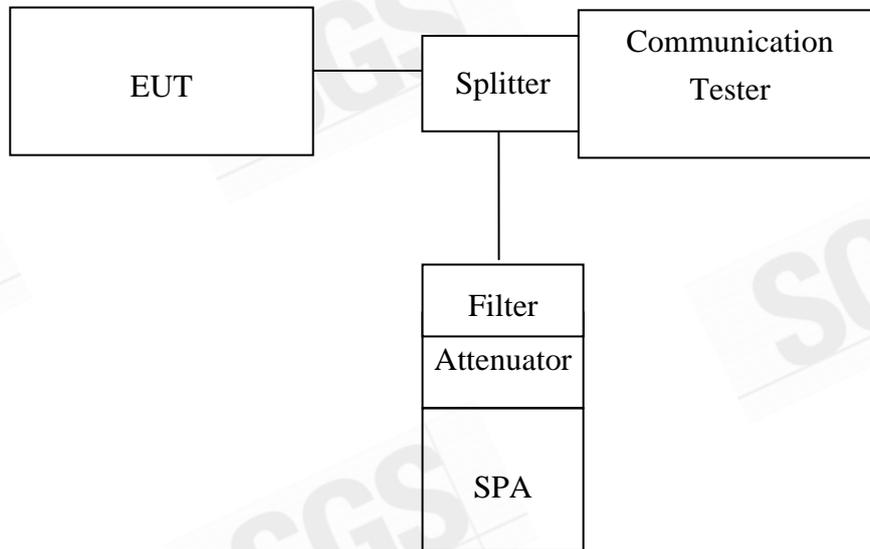
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

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= 10th 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.

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8.4. Measurement Equipment Used:

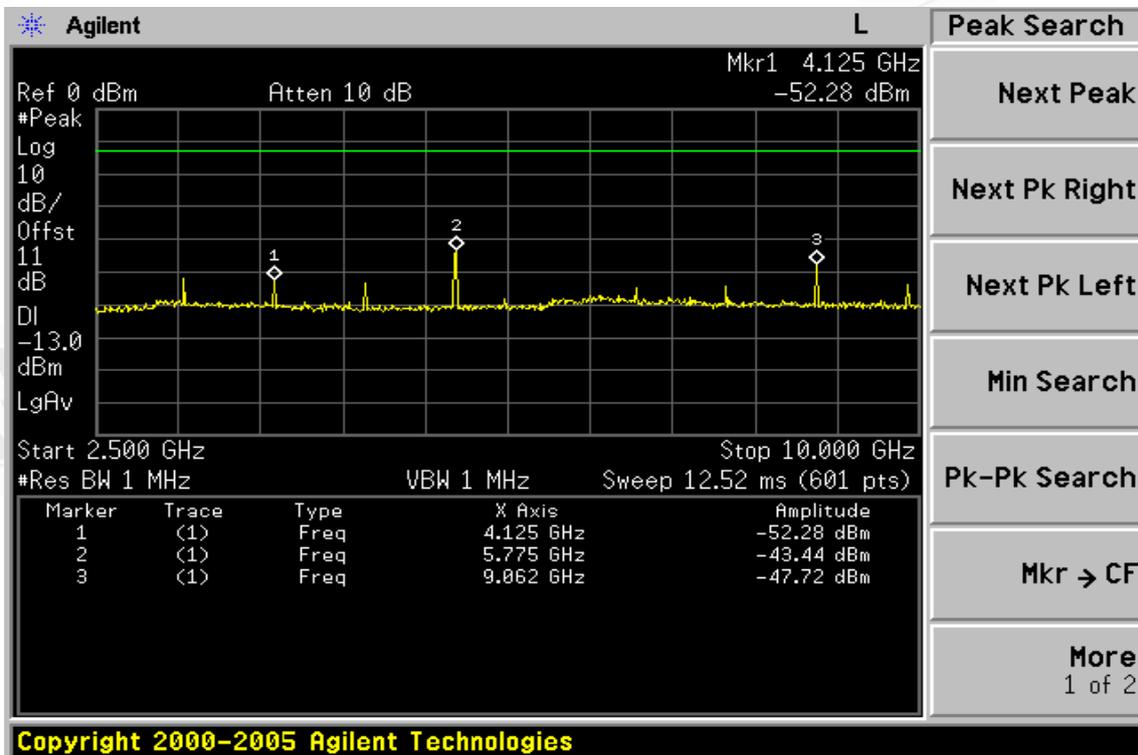
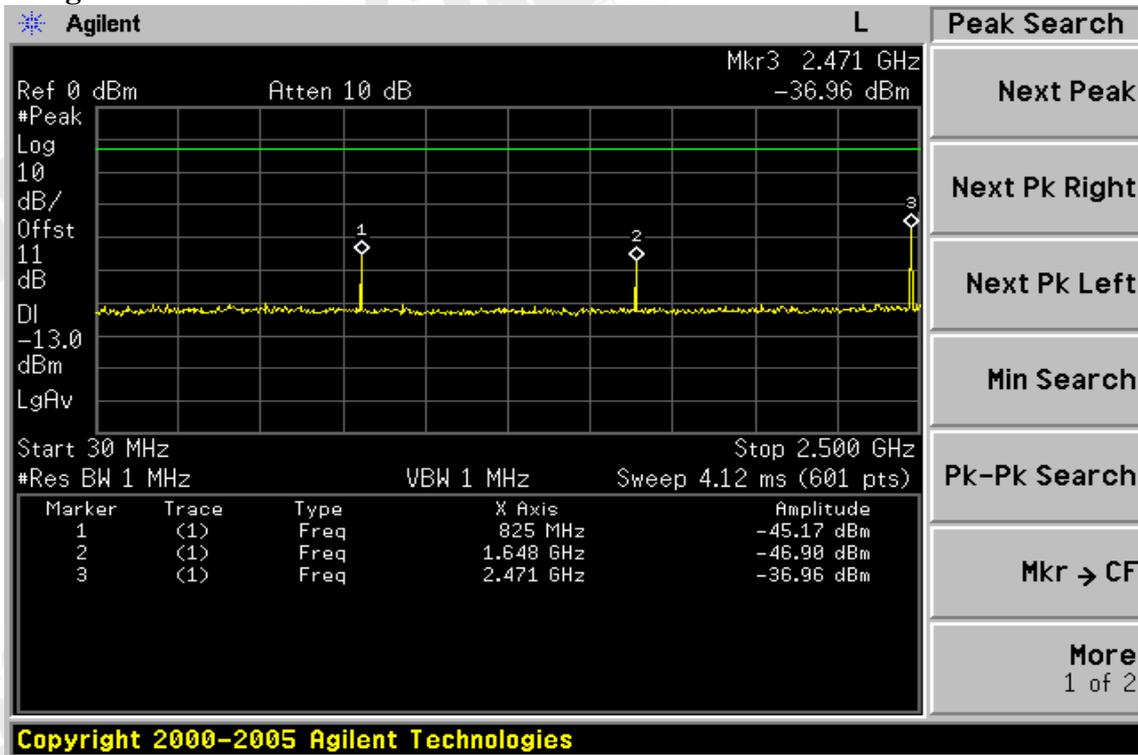
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2009	01/04/2010
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2009	01/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2008	07/04/2009
Splitter	Agilent	11636B	N/A	07/05/2008	07/04/2009
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

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8.5. Measurement Result

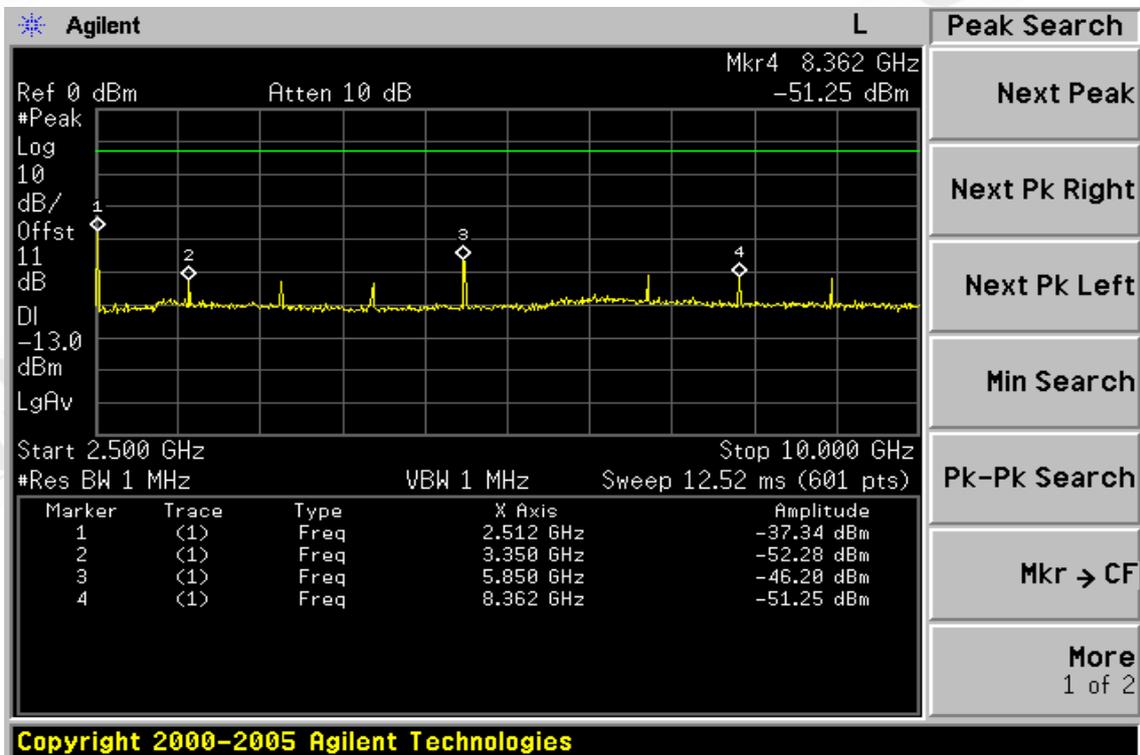
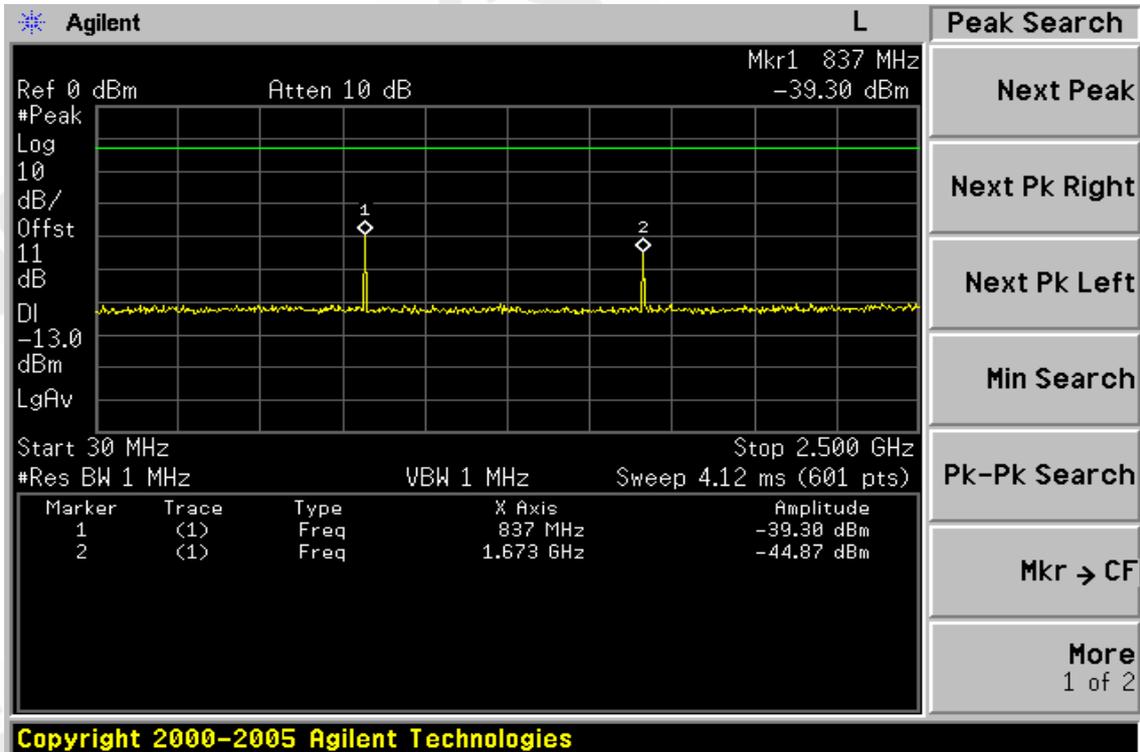
Figure 8-1: Out of Band emission at antenna terminals– GSM Channel Lowest



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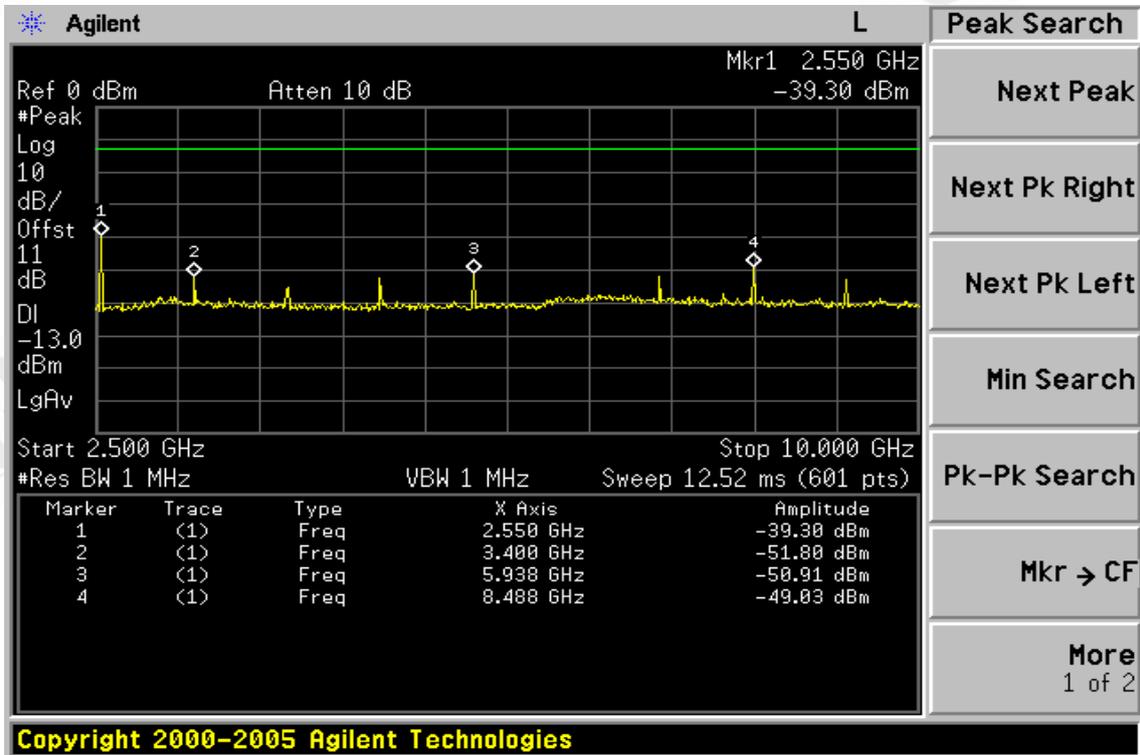
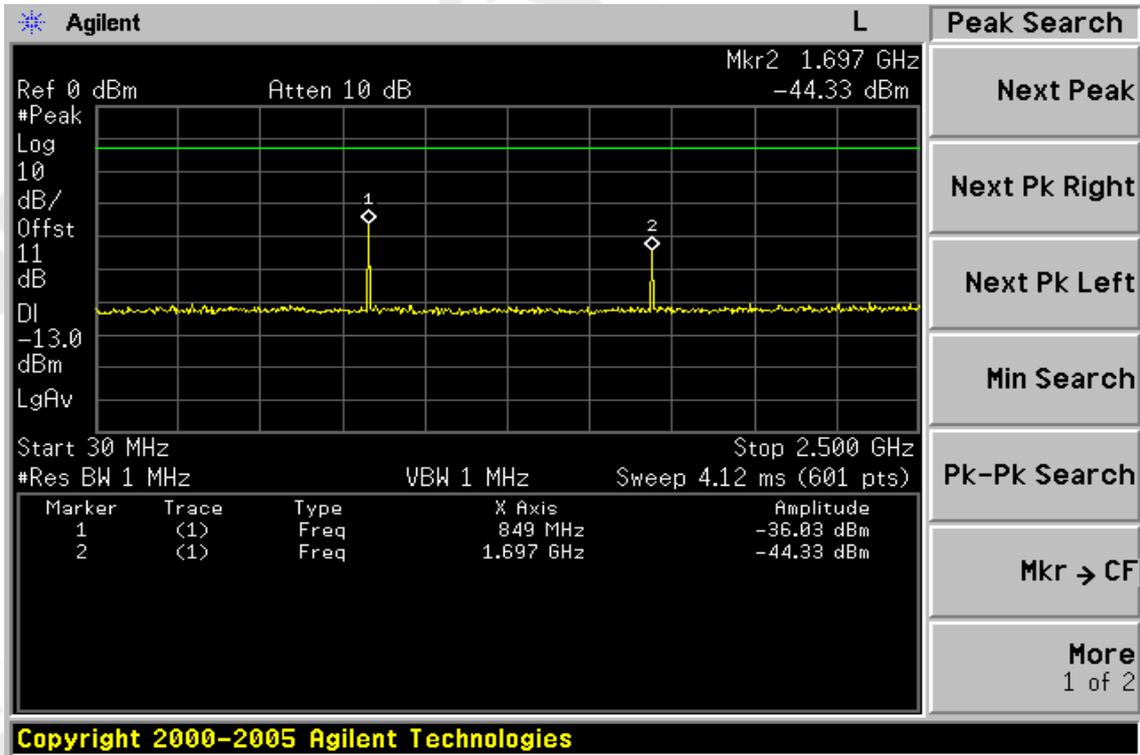
Figure 8-2: Out of Band emission at antenna terminals –GSM Channel Mid



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



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

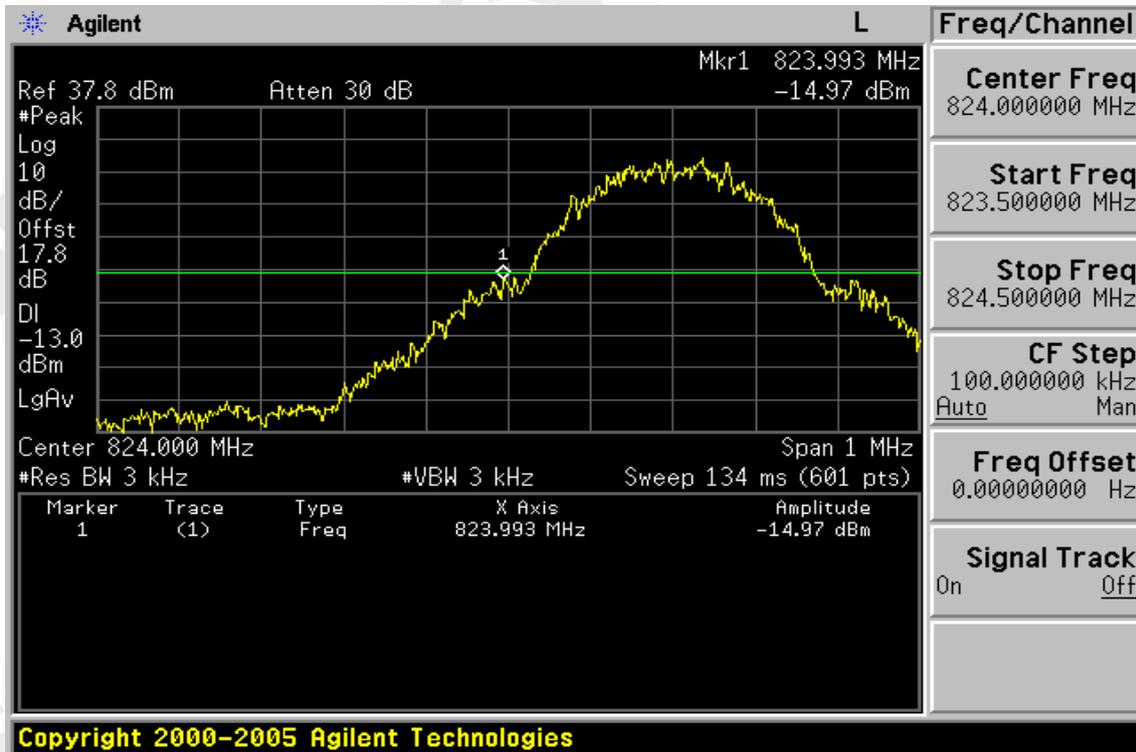
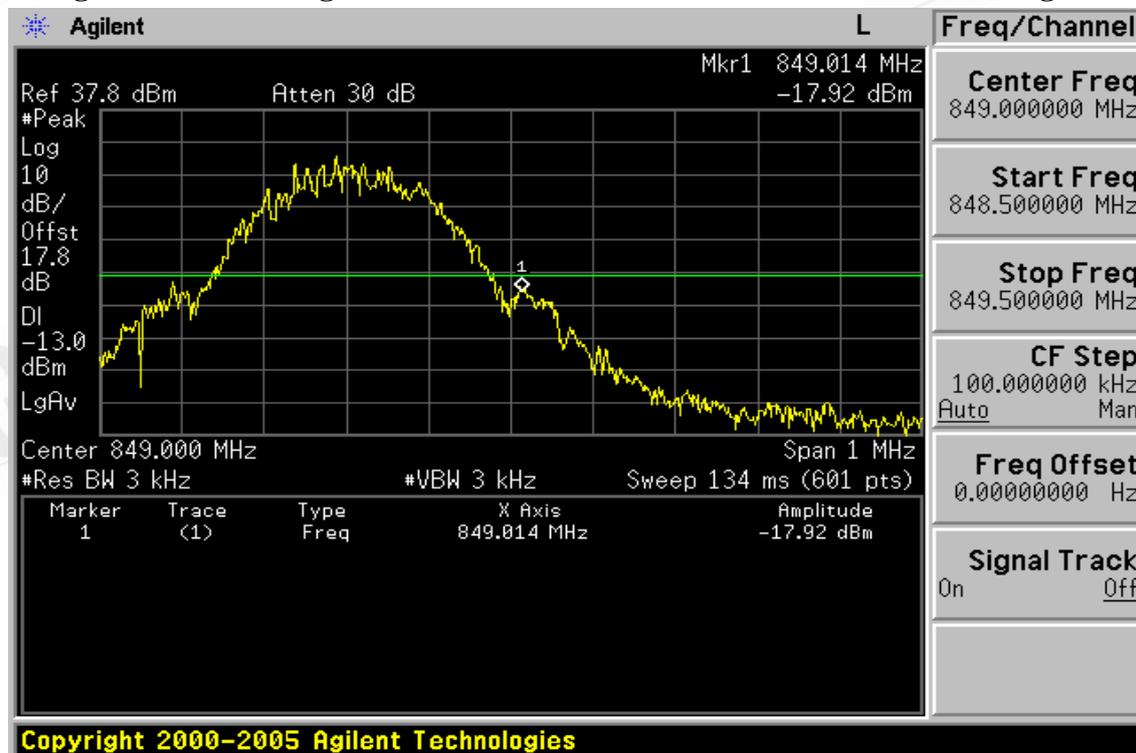


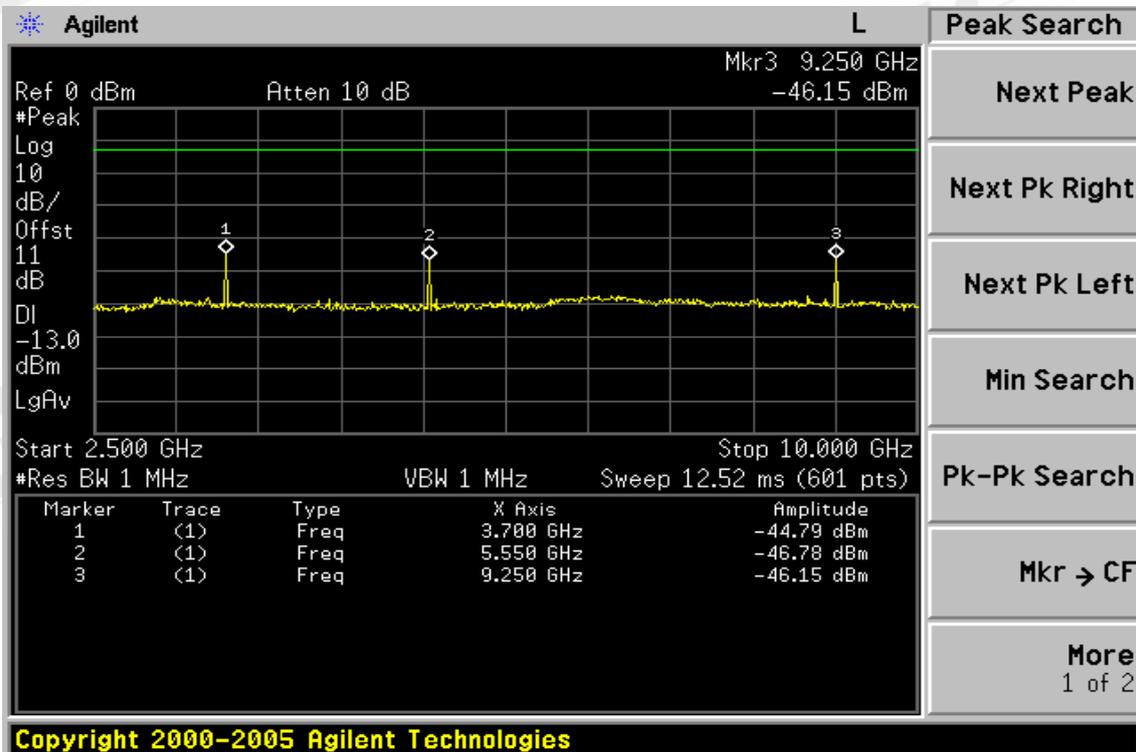
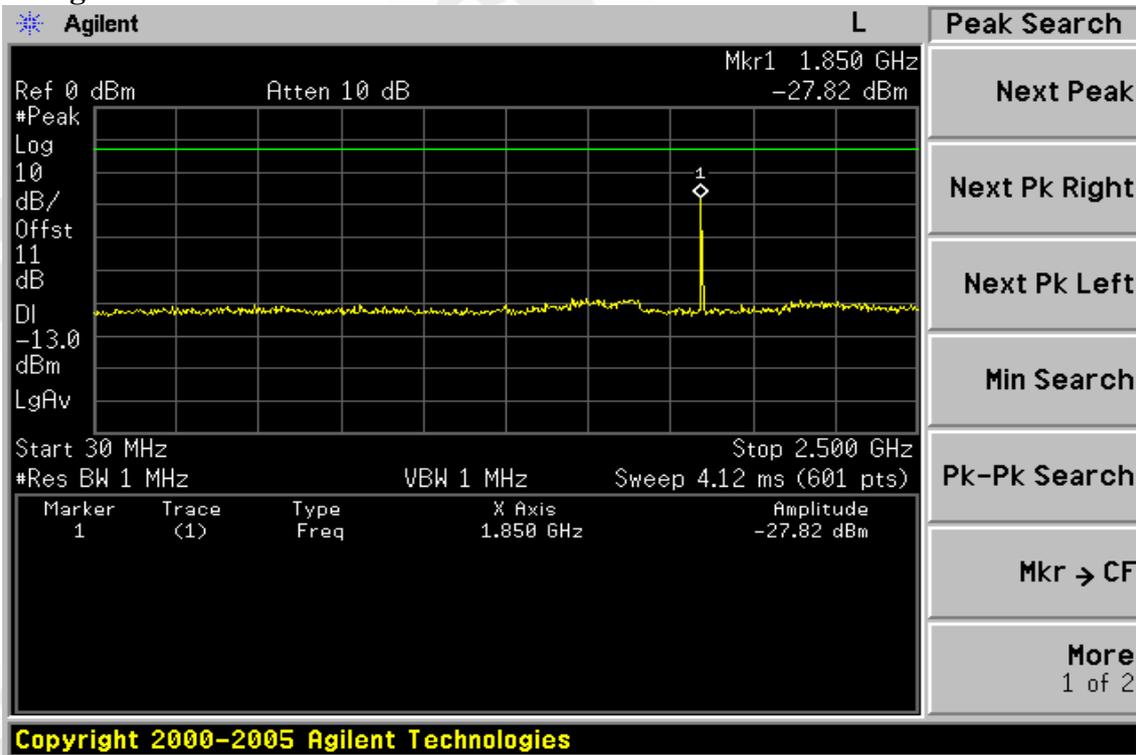
Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest



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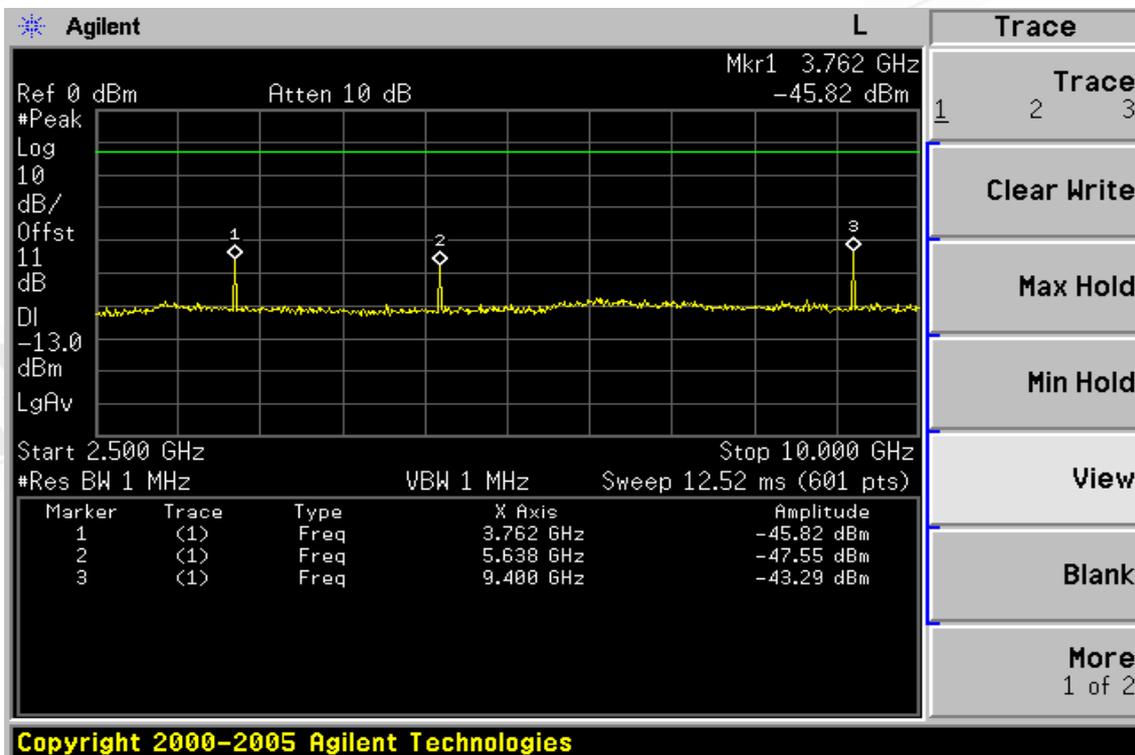
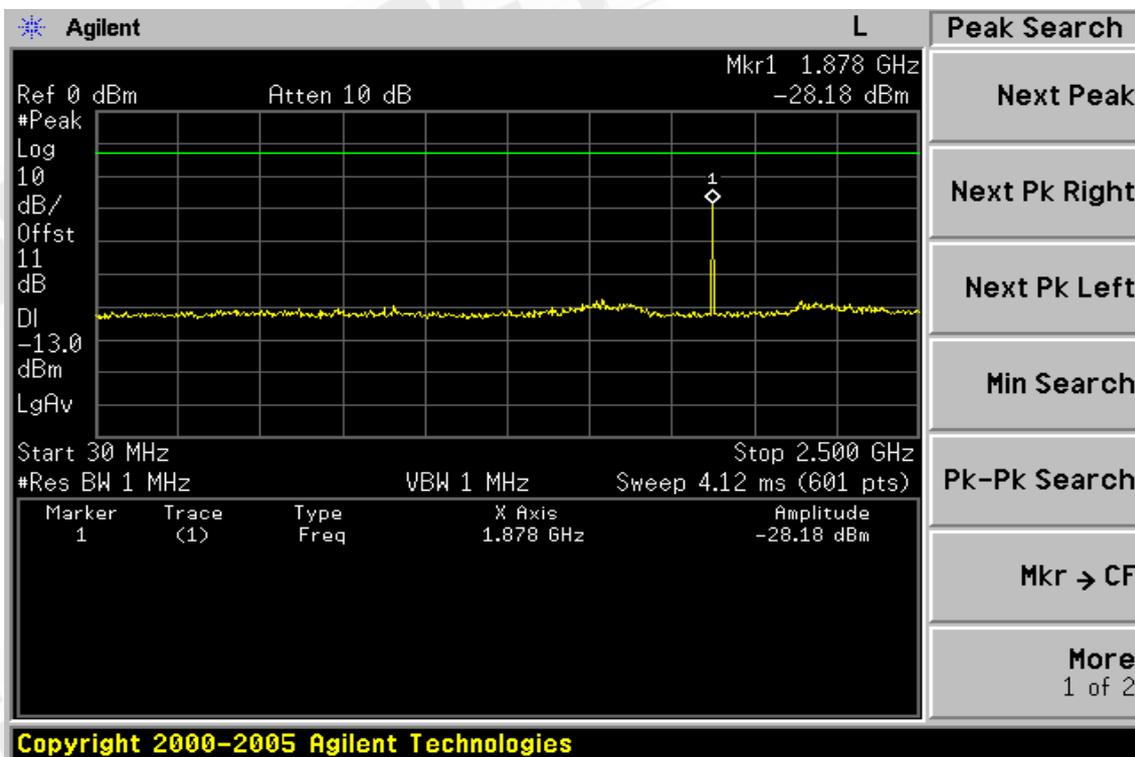
Figure 8-6: Out of Band emission at antenna terminals– PCS Channel Lowest



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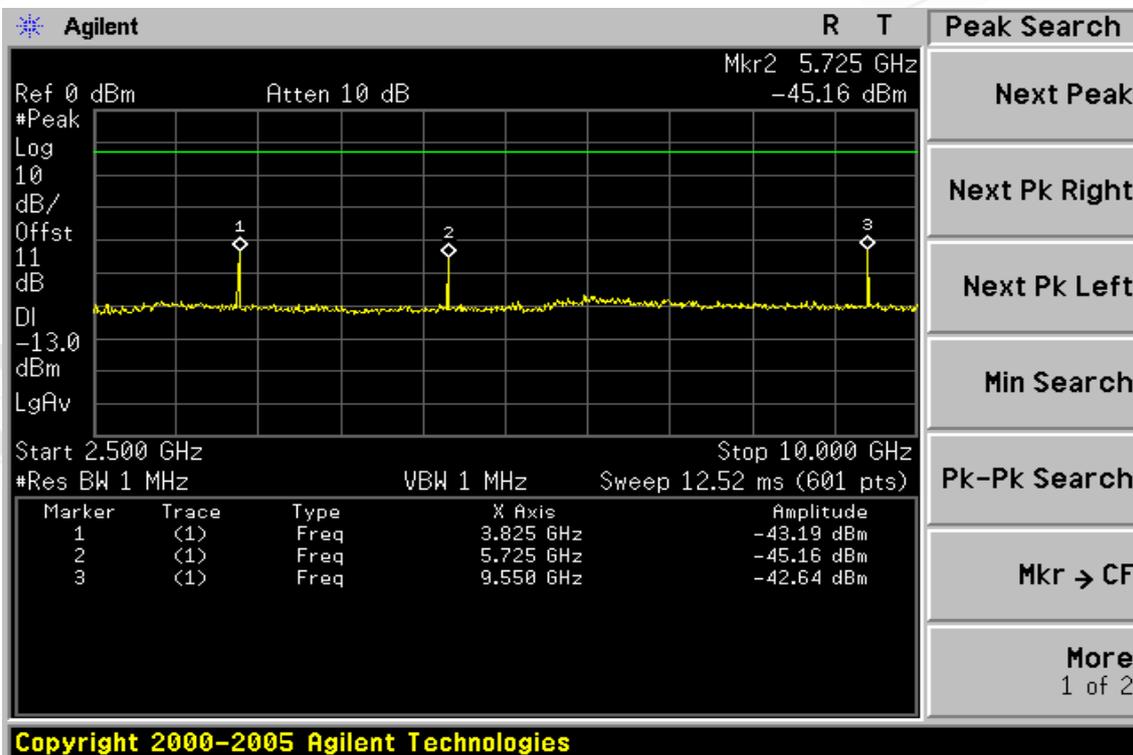
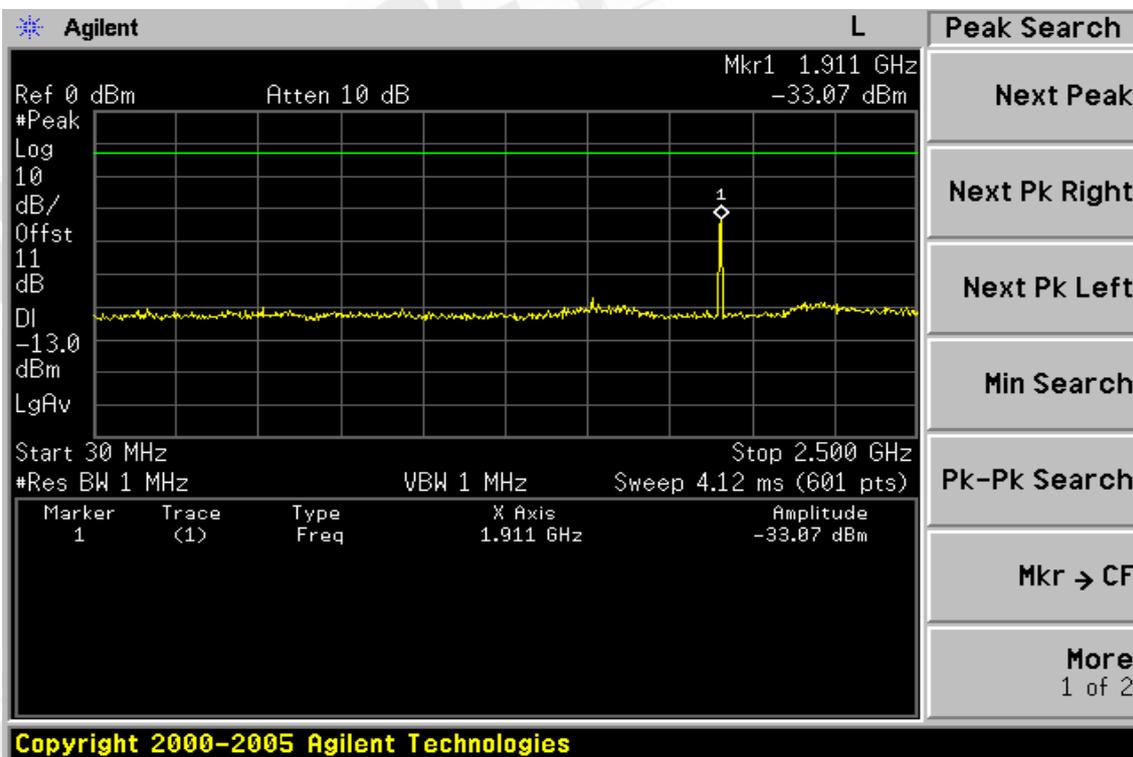
Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid



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



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

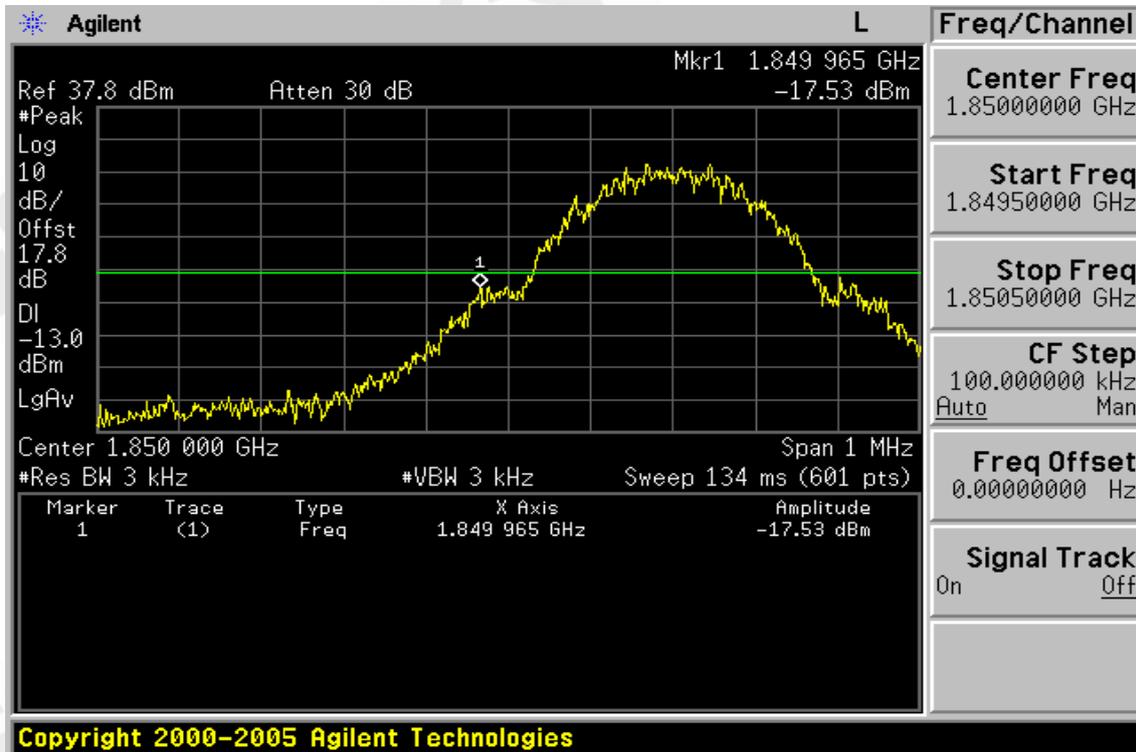
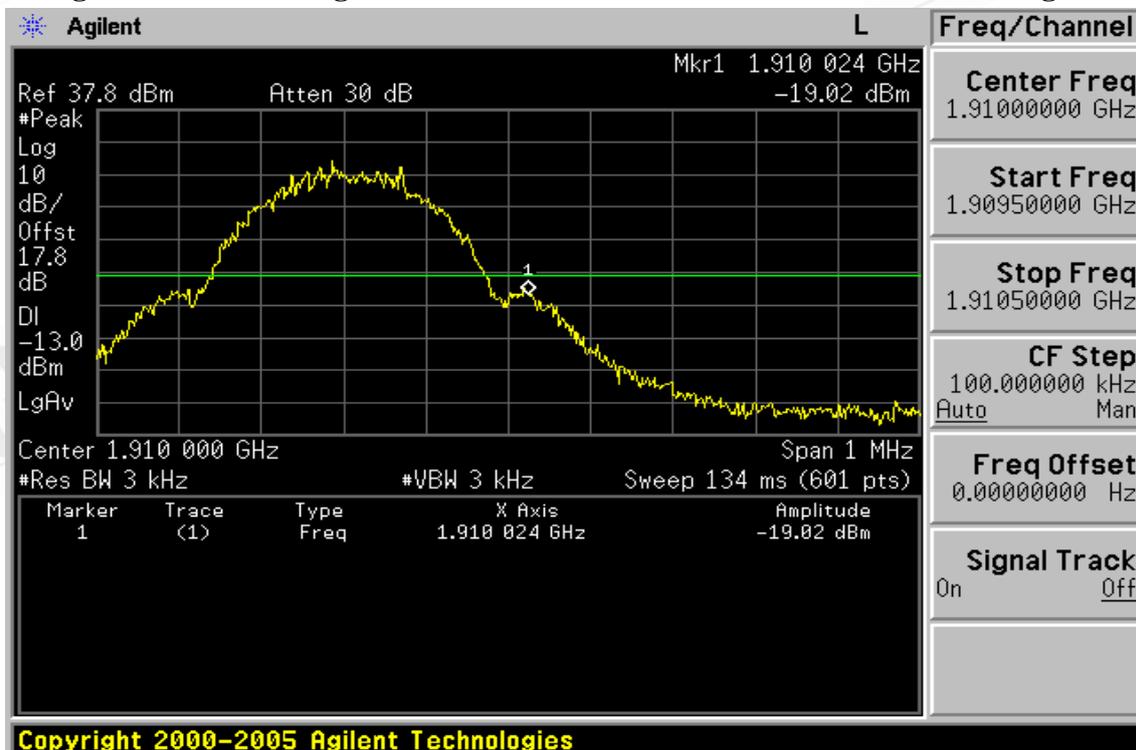


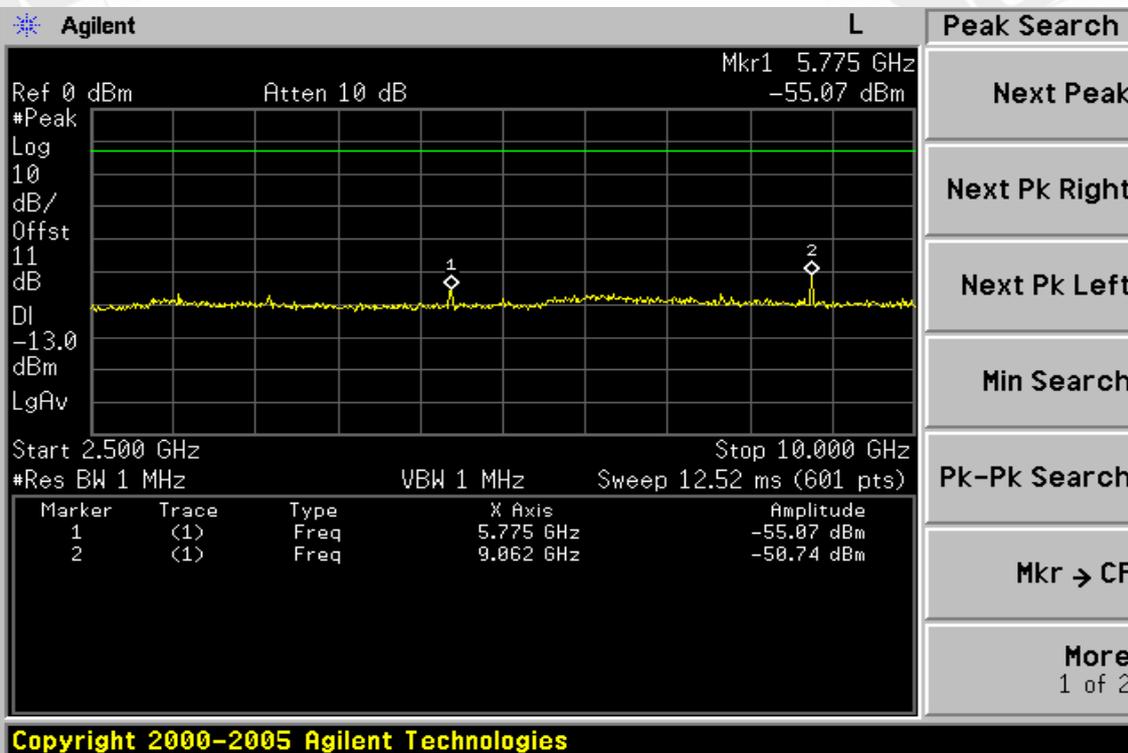
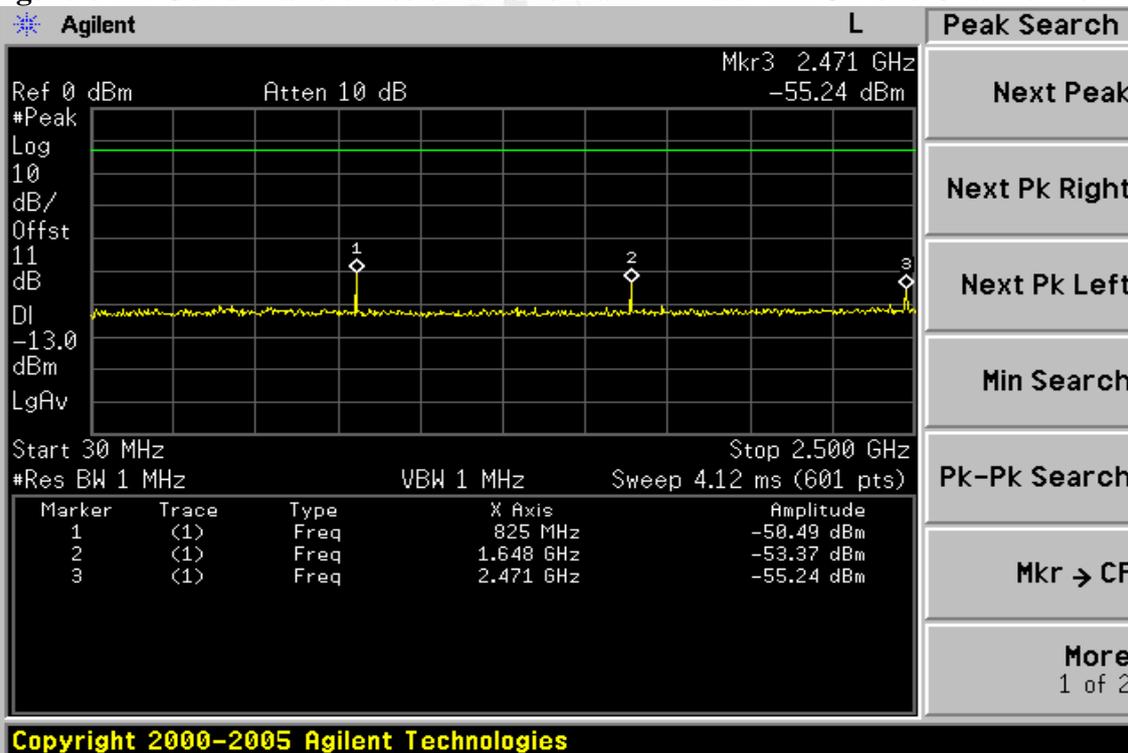
Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest



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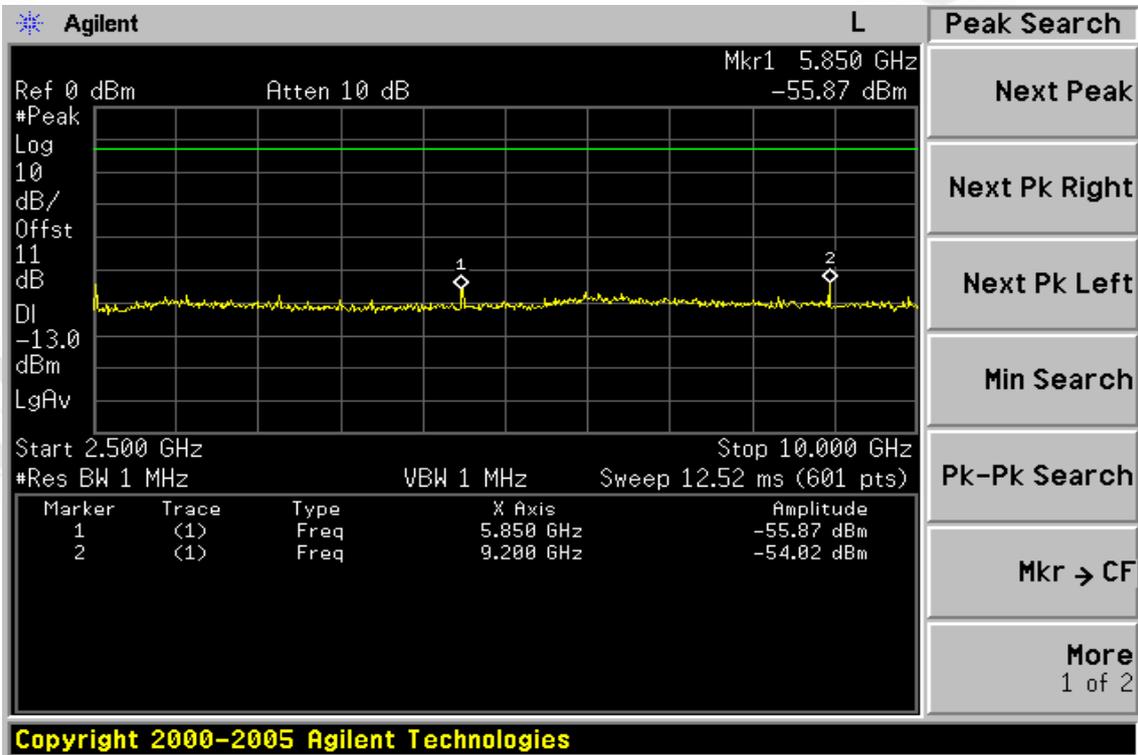
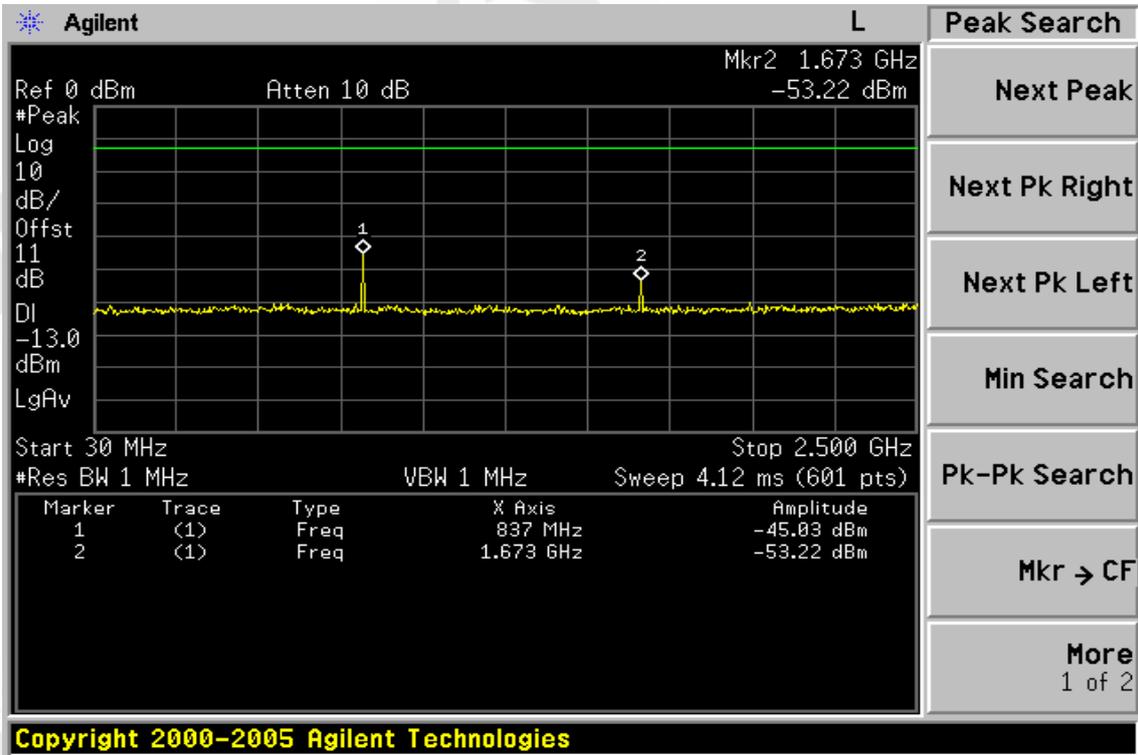
Figure 8-11: Out of Band emission at antenna terminals– EDGE 850 Channel Lowest



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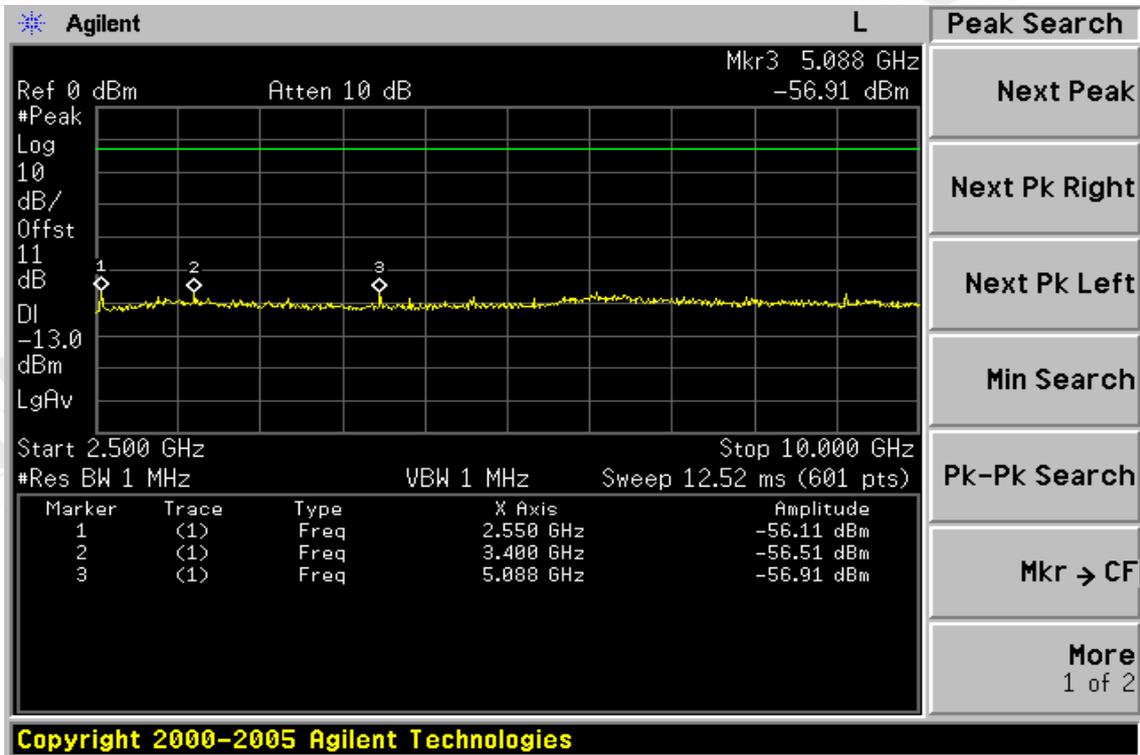
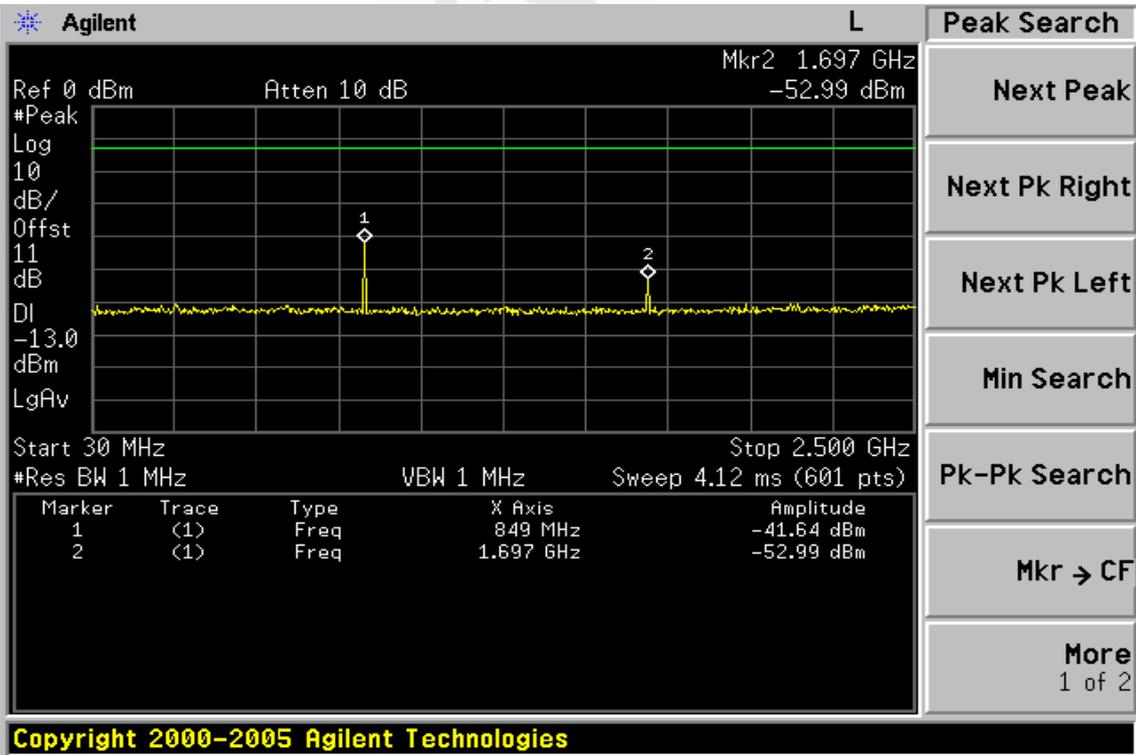
Figure 8-12: Out of Band emission at antenna terminals –EDGE 850 Channel Mid



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Figure 8-13: Out of Band emission at antenna terminals–EDGE 850 Channel Highest



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Figure 8-14: Band edge emission at antenna terminals – EDGE 850 Channel Lowest

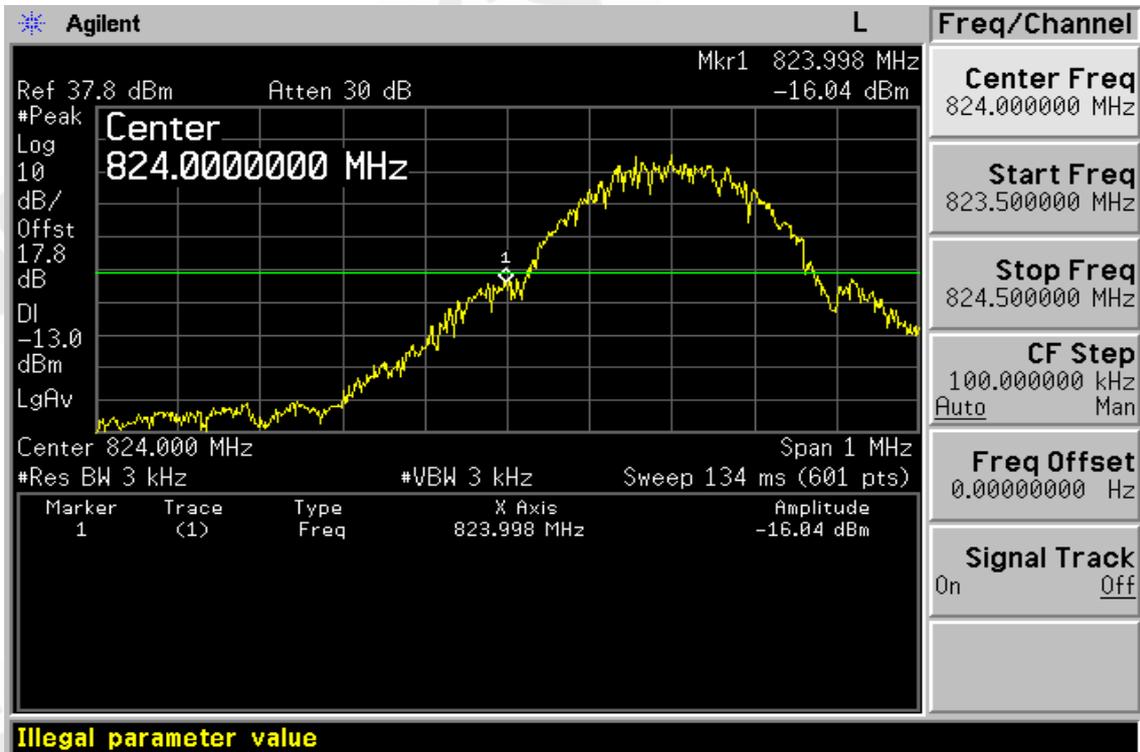
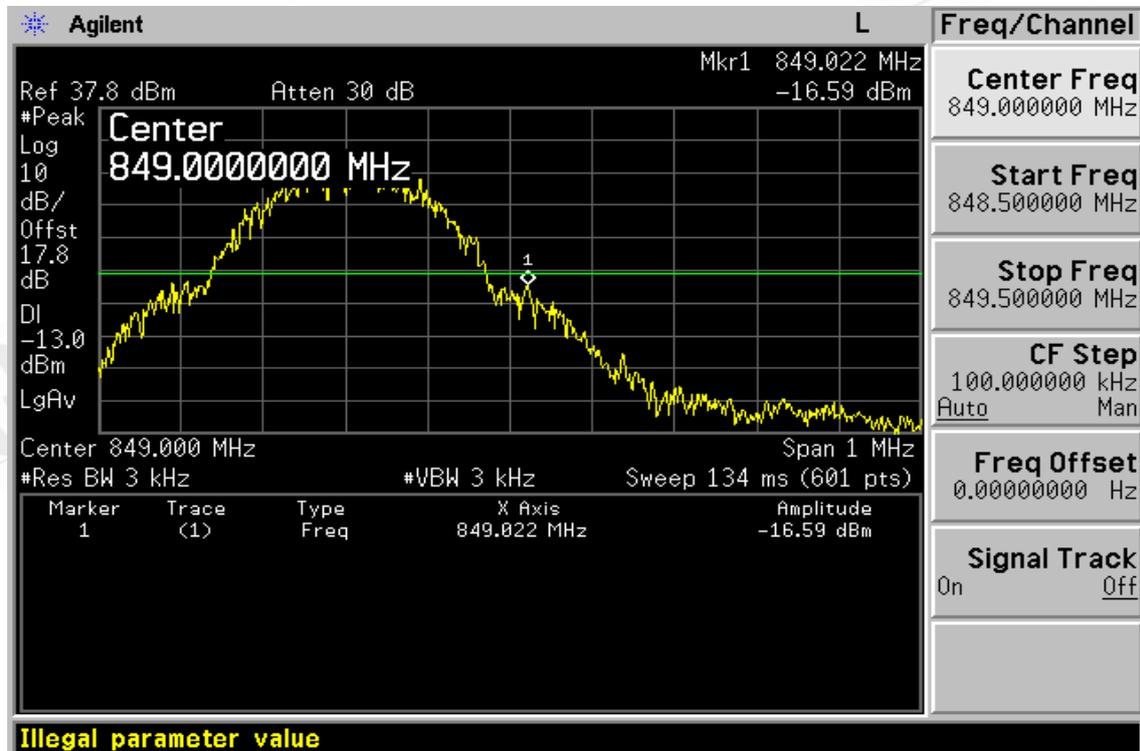


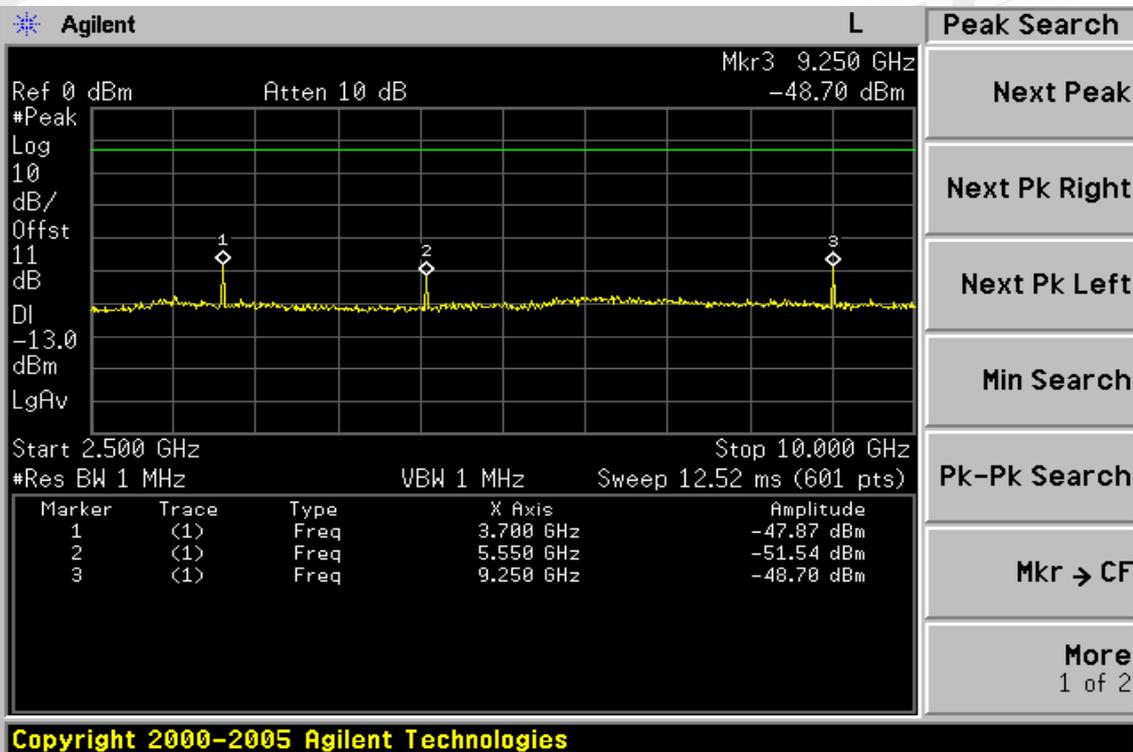
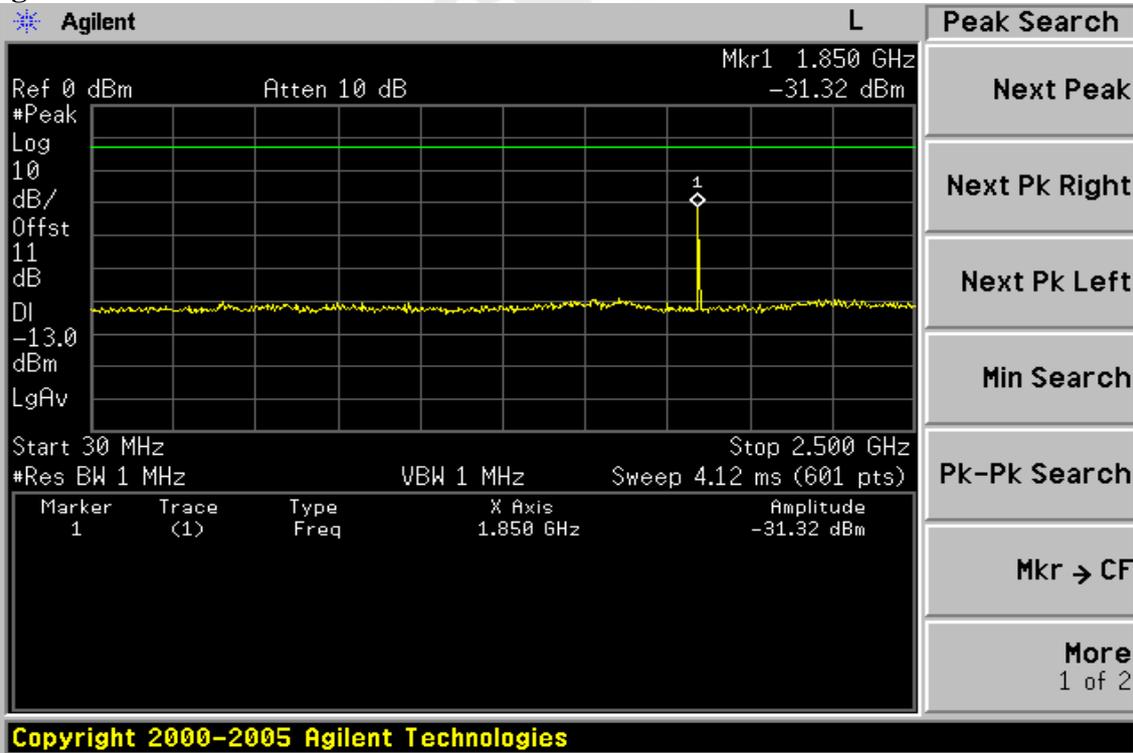
Figure 8-15: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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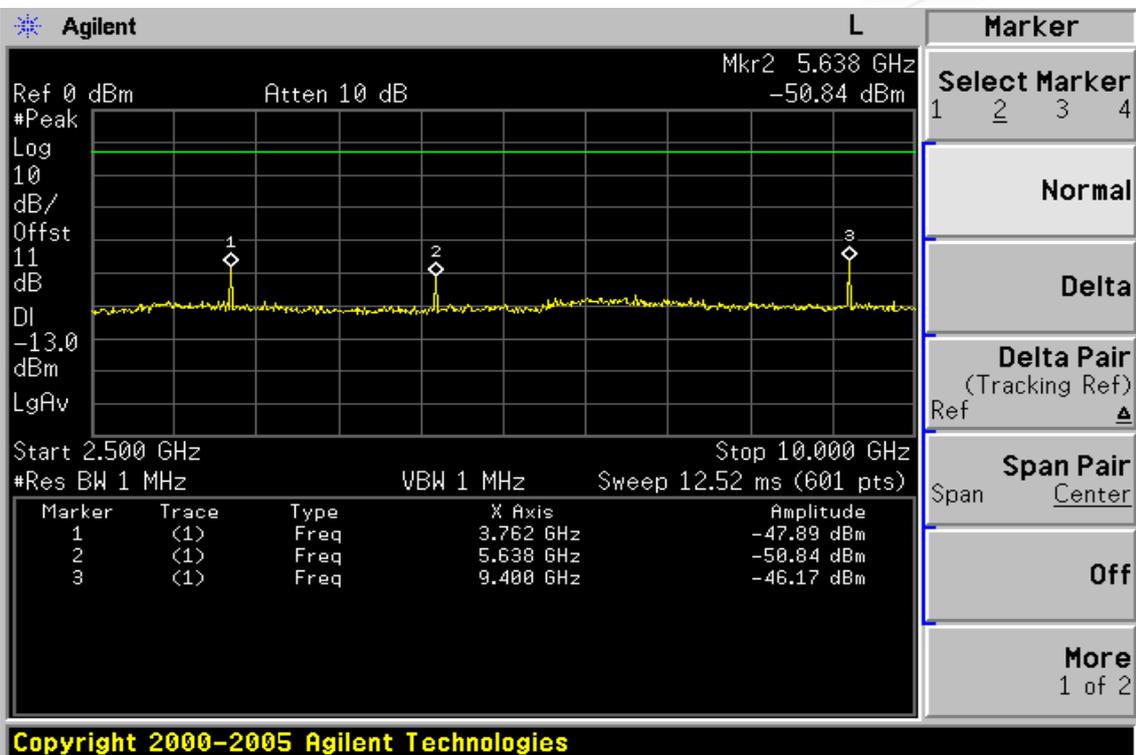
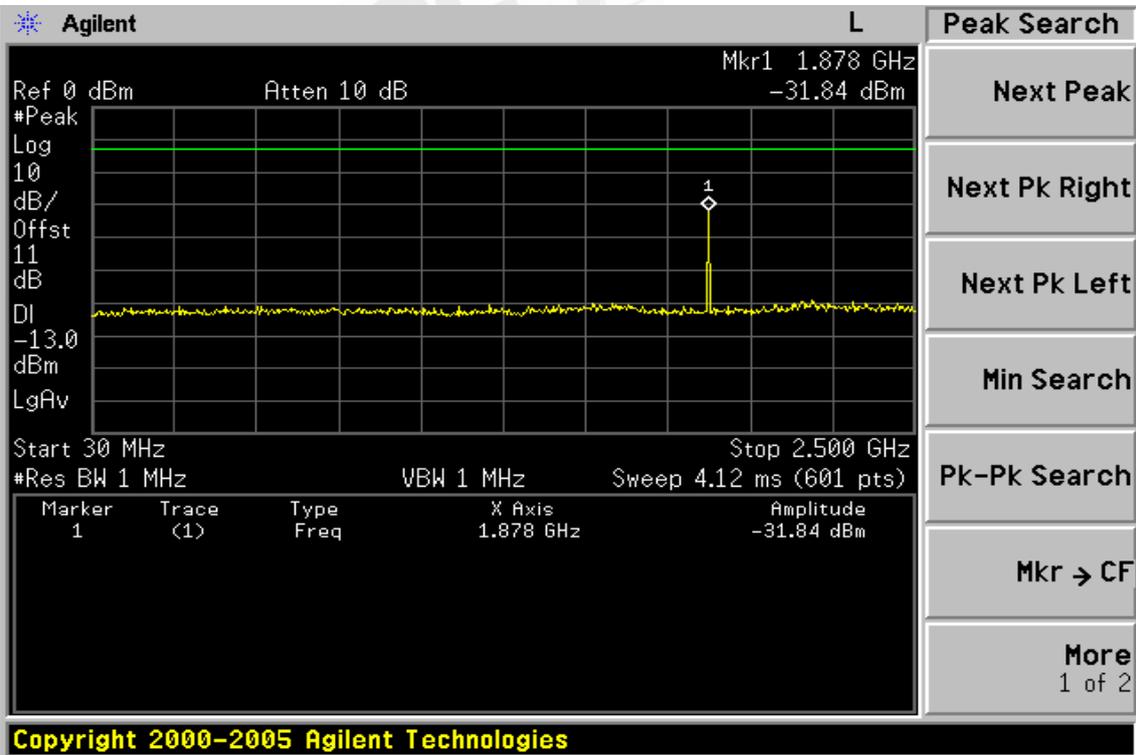
Figure 8-16: Out of Band emission at antenna terminals– EDGE1900 Channel Lowest



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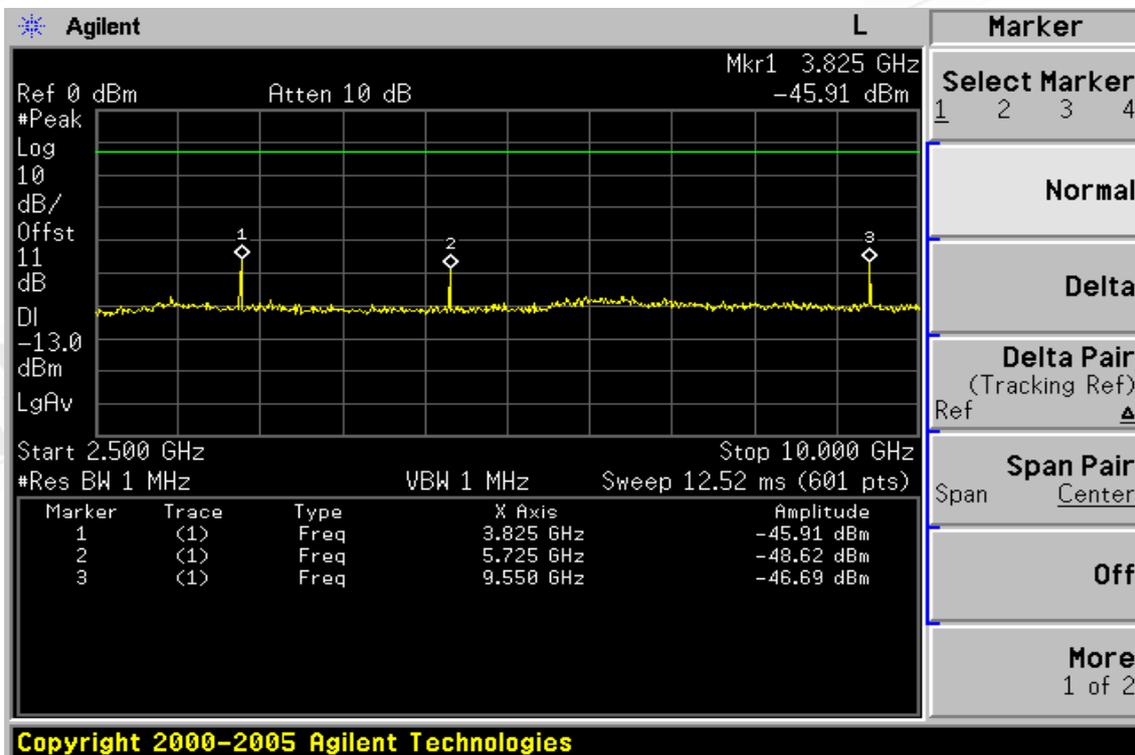
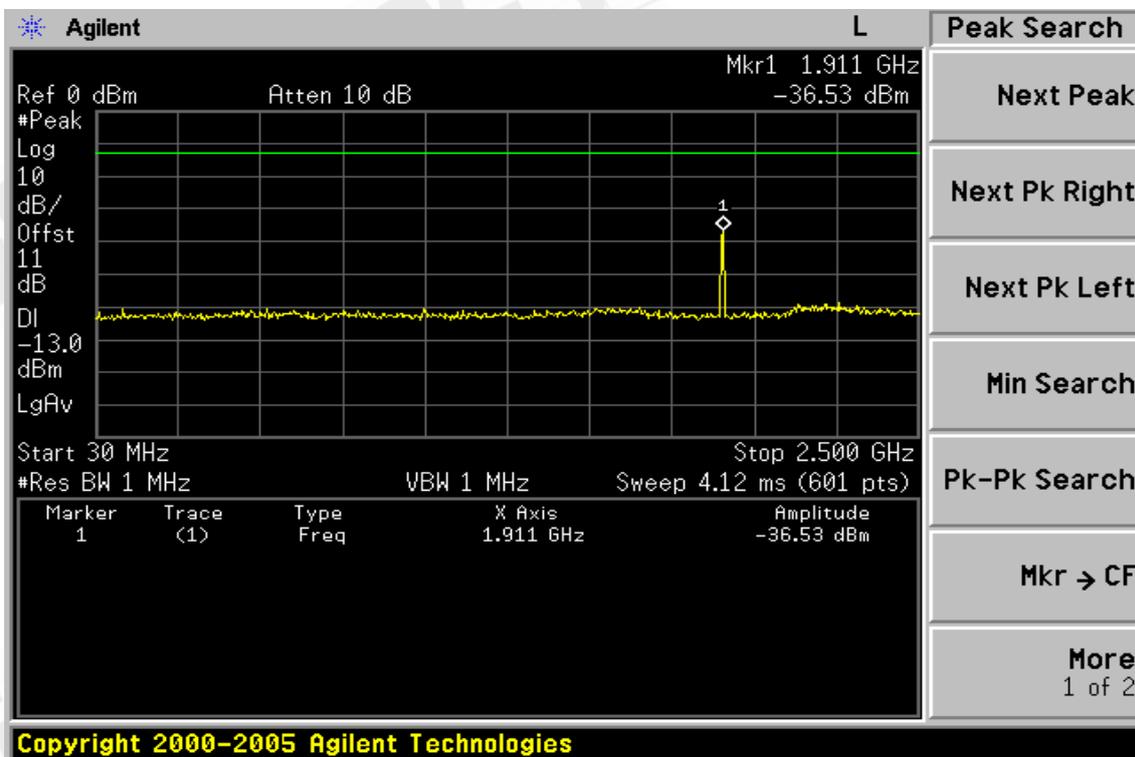
Figure 8-17: Out of Band emission at antenna terminals –EDGE1900 Channel Mid



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Figure 8-18: Out of Band emission at antenna terminals–EDGE1900 Channel Highest



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Figure 8-19: Bad edge emission at antenna terminals –EDGE1900 Channel Lowest

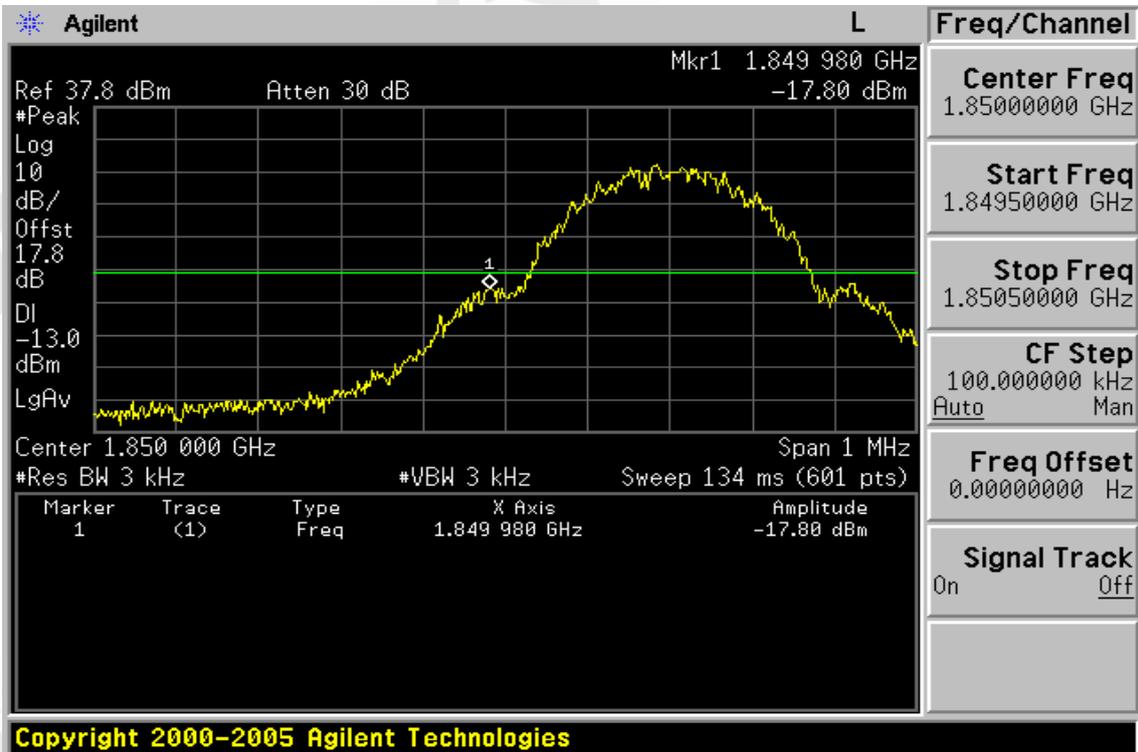
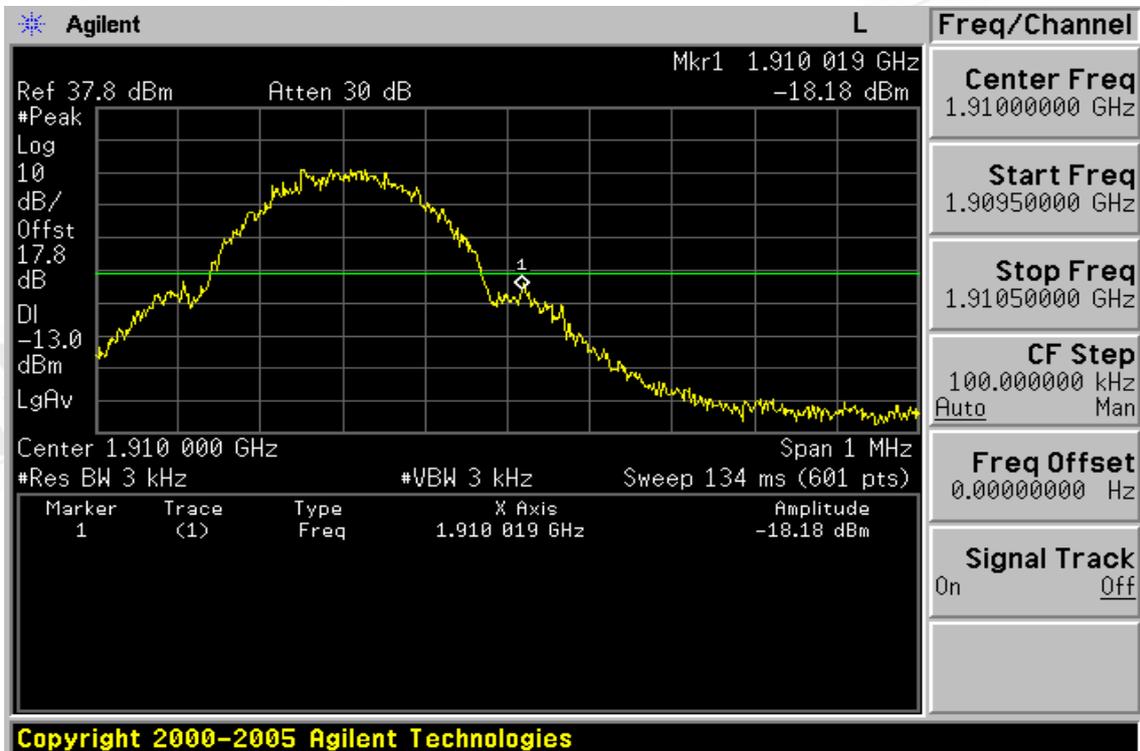


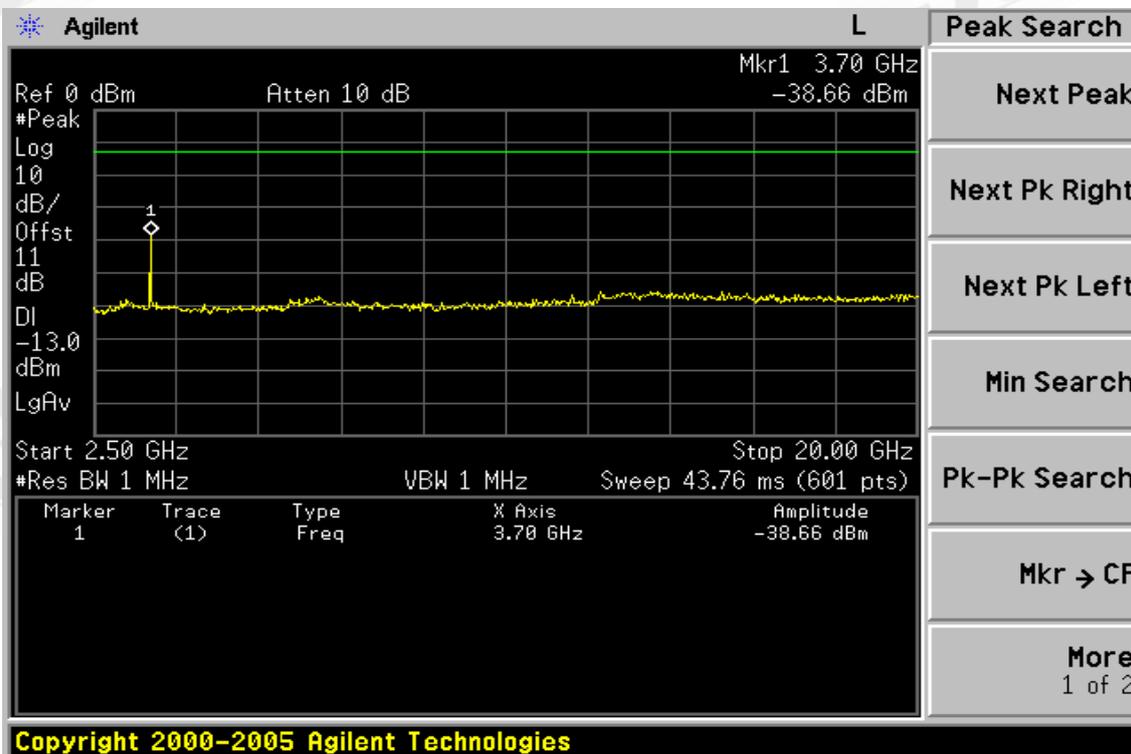
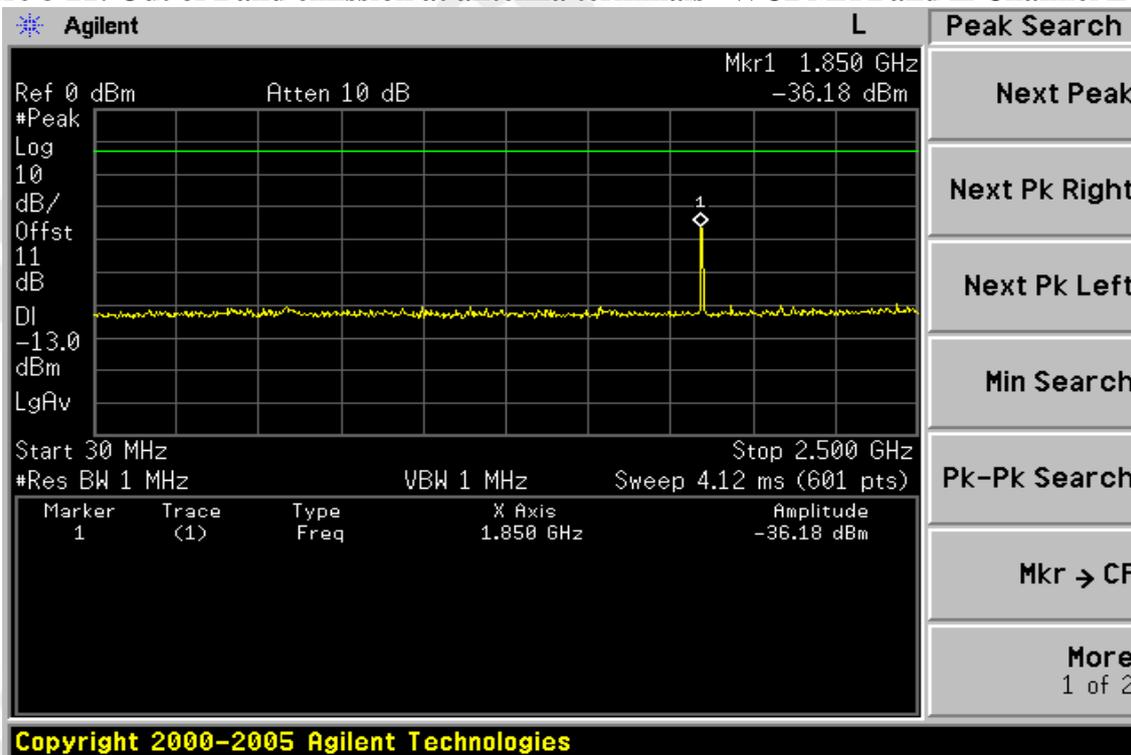
Figure 8-20: Band edge emission at antenna terminals – PCS Channel Highest



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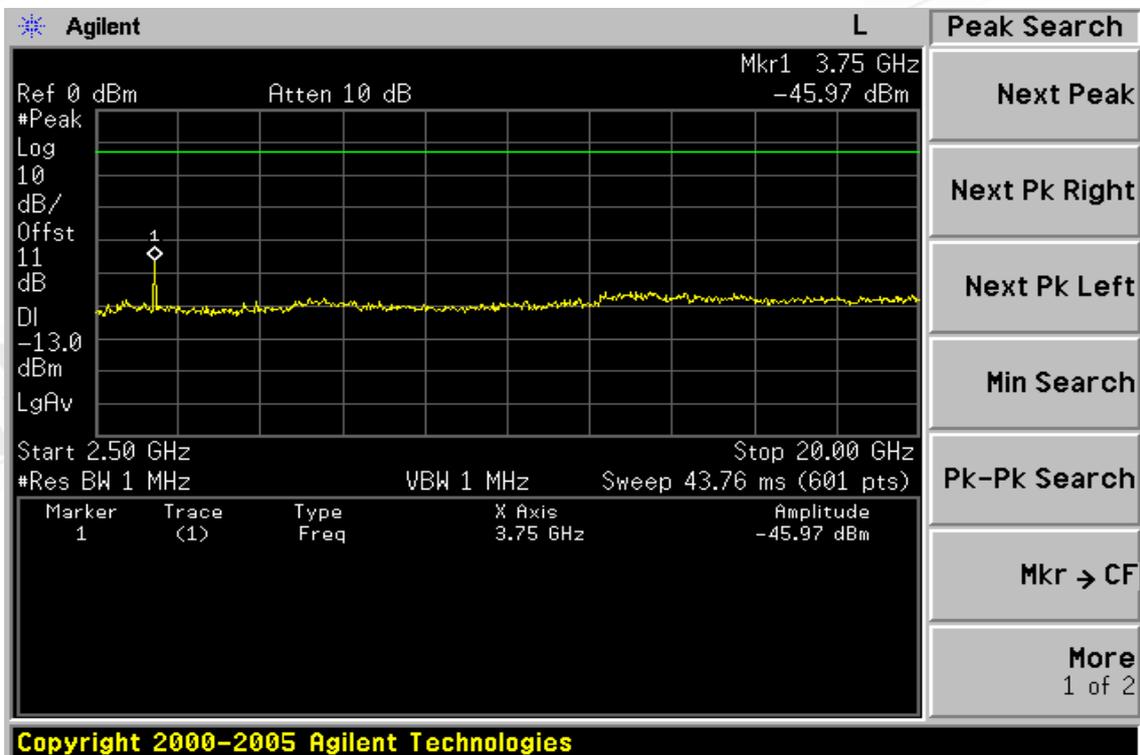
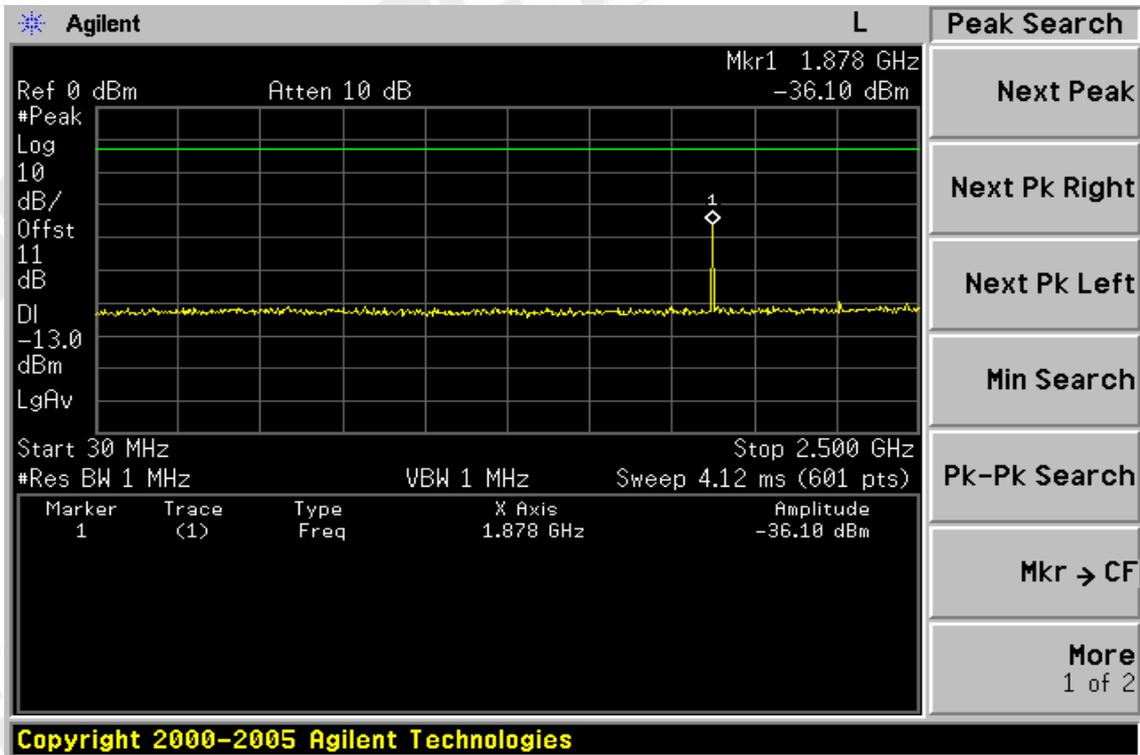
Figure 8-21: Out of Band emission at antenna terminals– WCDMA Band II Channel Lowest



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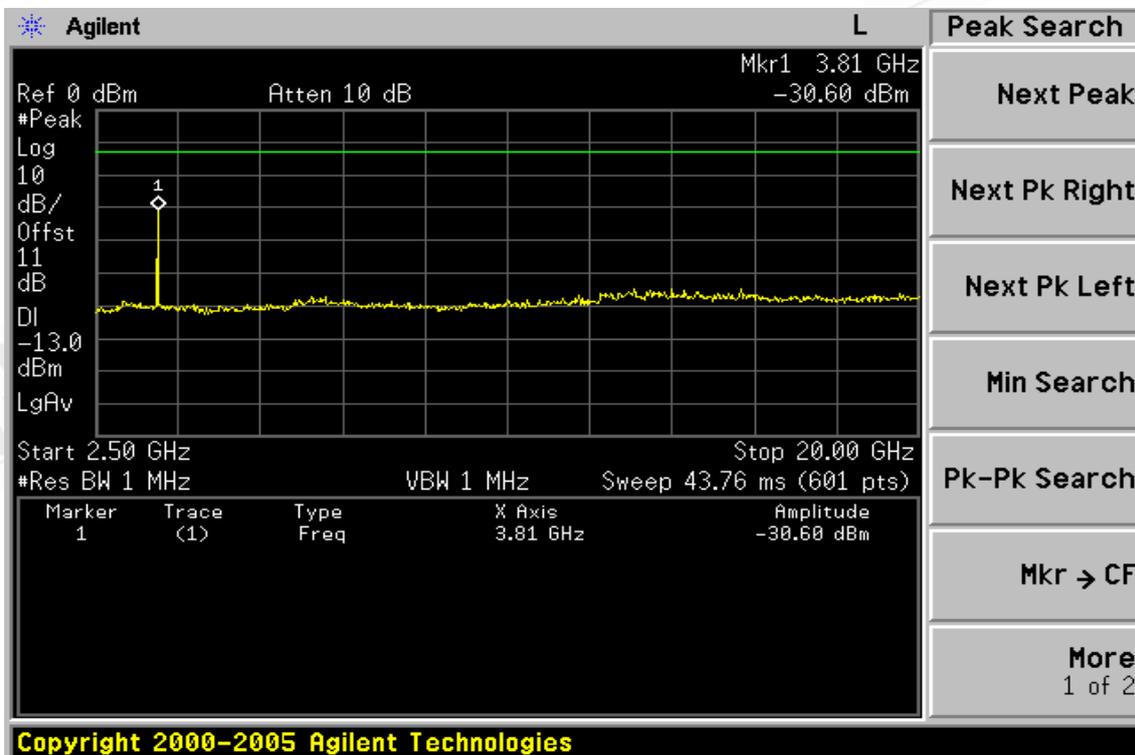
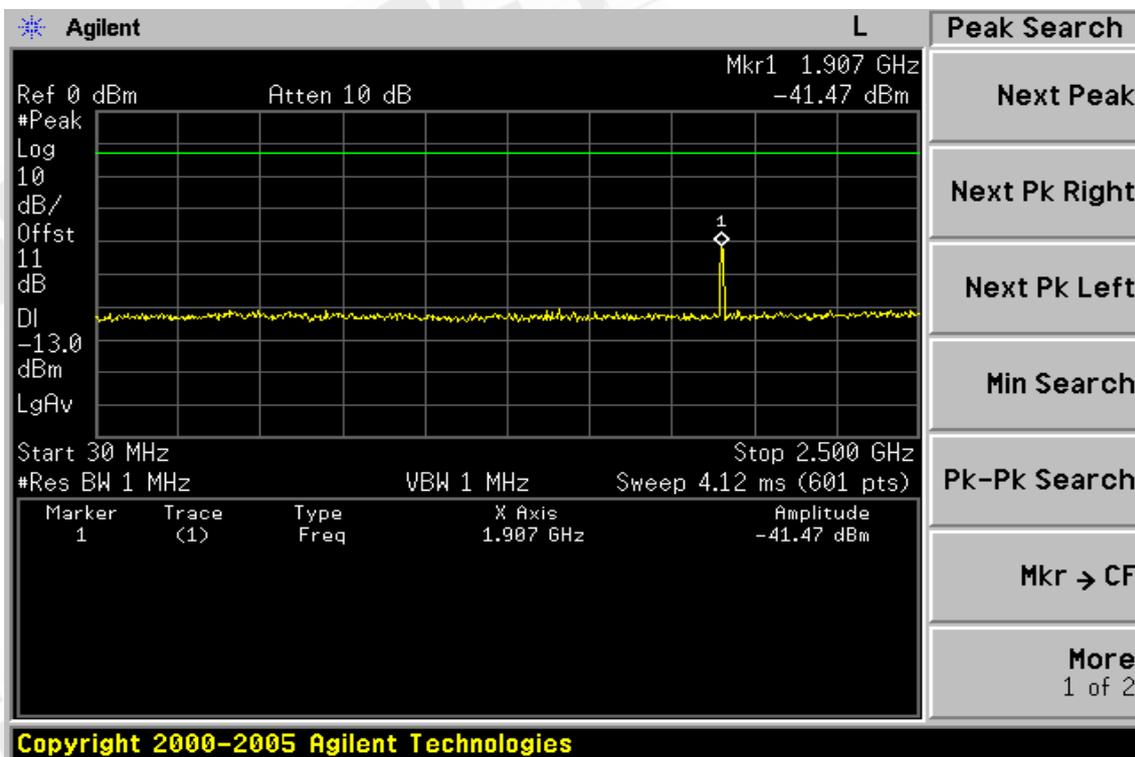
Figure 8-22: Out of Band emission at antenna terminals –WCDMA Band II Channel Mid



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Figure 8-23: Out of Band emission at antenna terminals–WCDMA BAND II Channel Highest



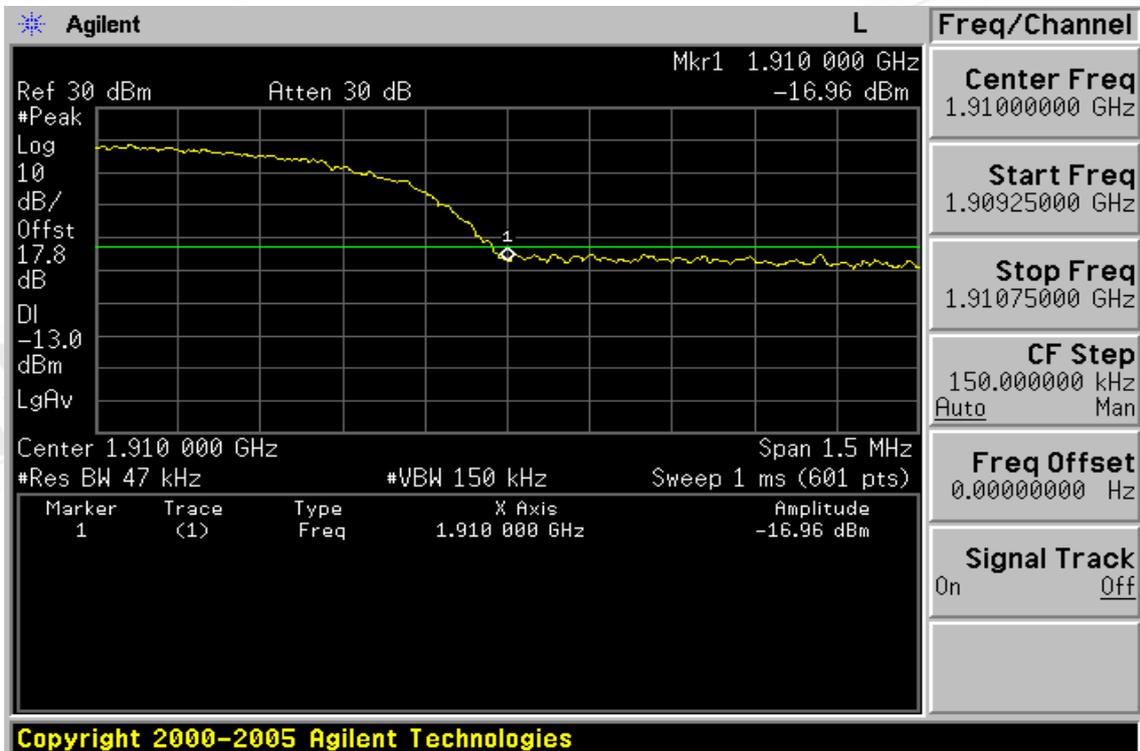
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Figure 8-24: Bad edge emission at antenna terminals – WCDMA BAND II Channel Lowest



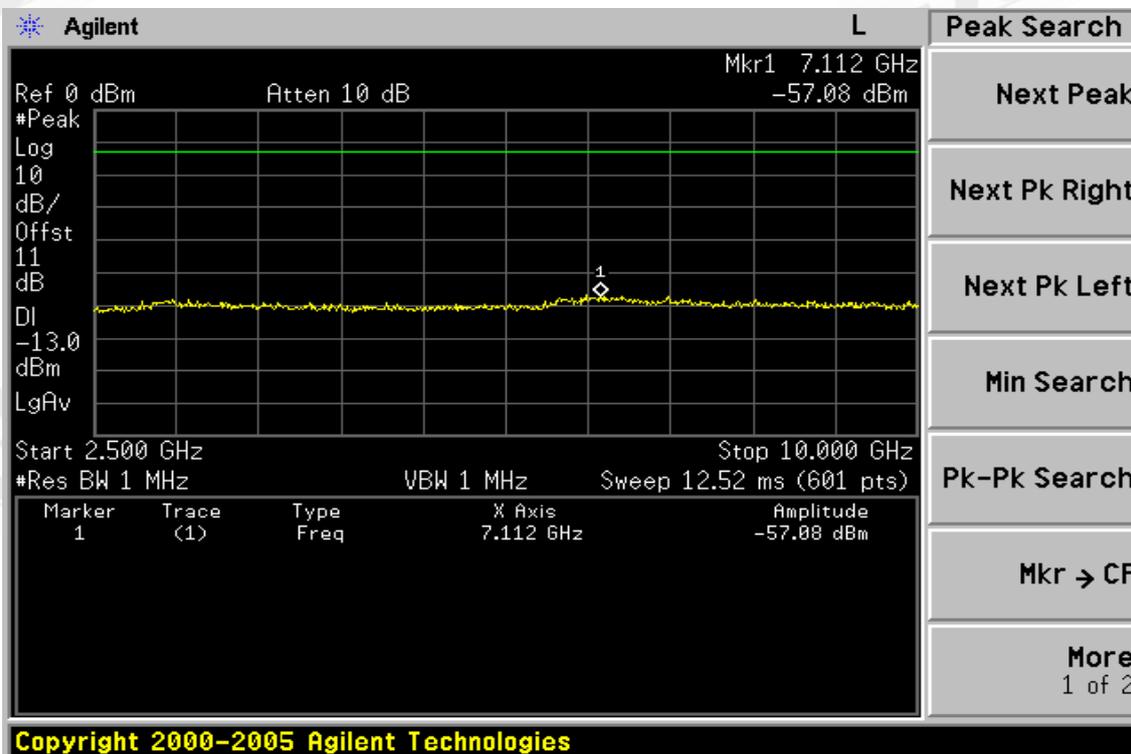
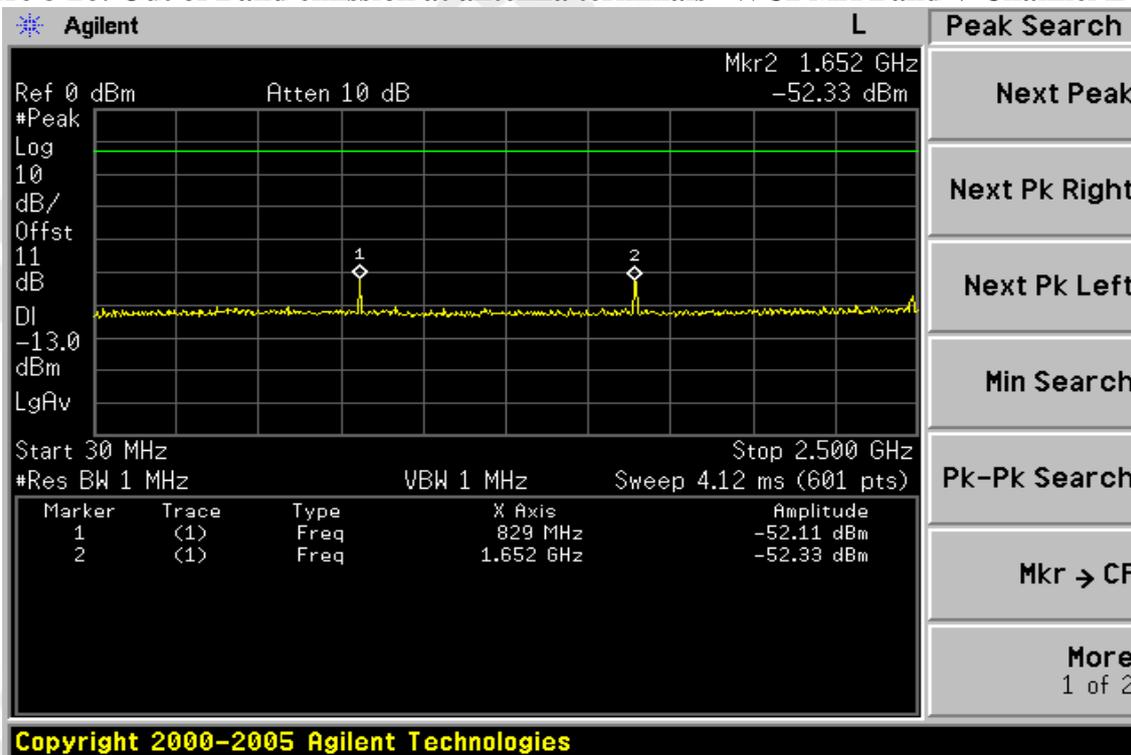
Figure 8-25: Band edge emission at antenna terminals –WCDMA BAND II Channel Highest



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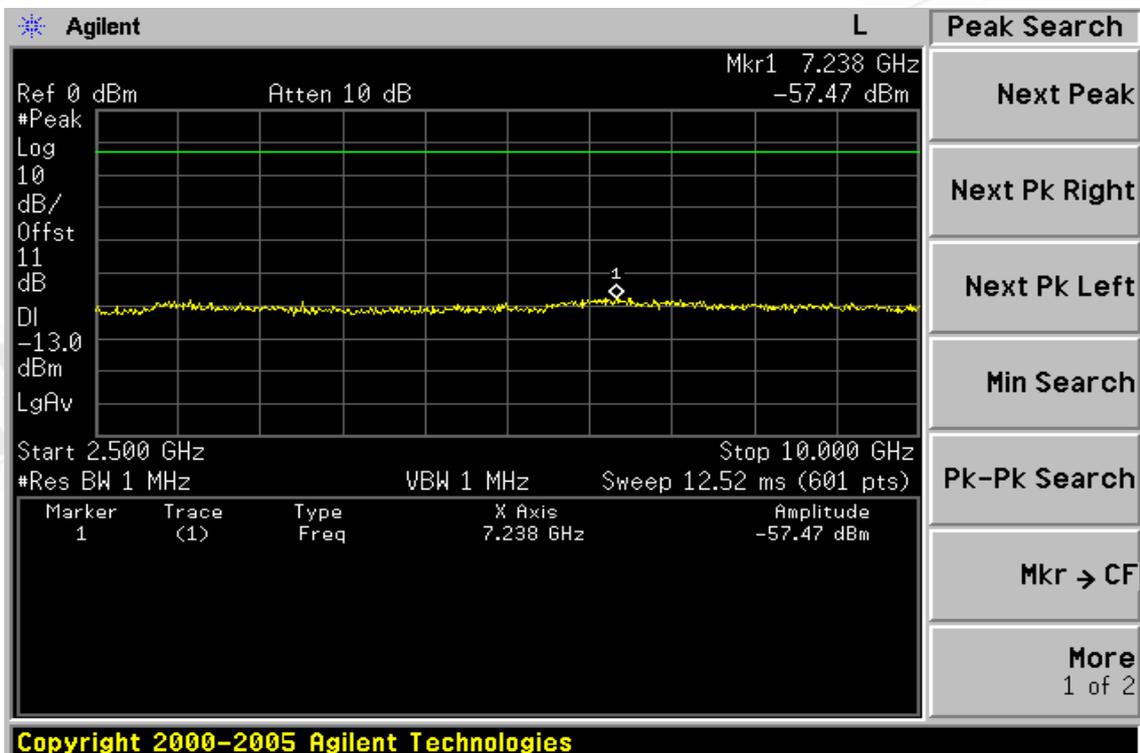
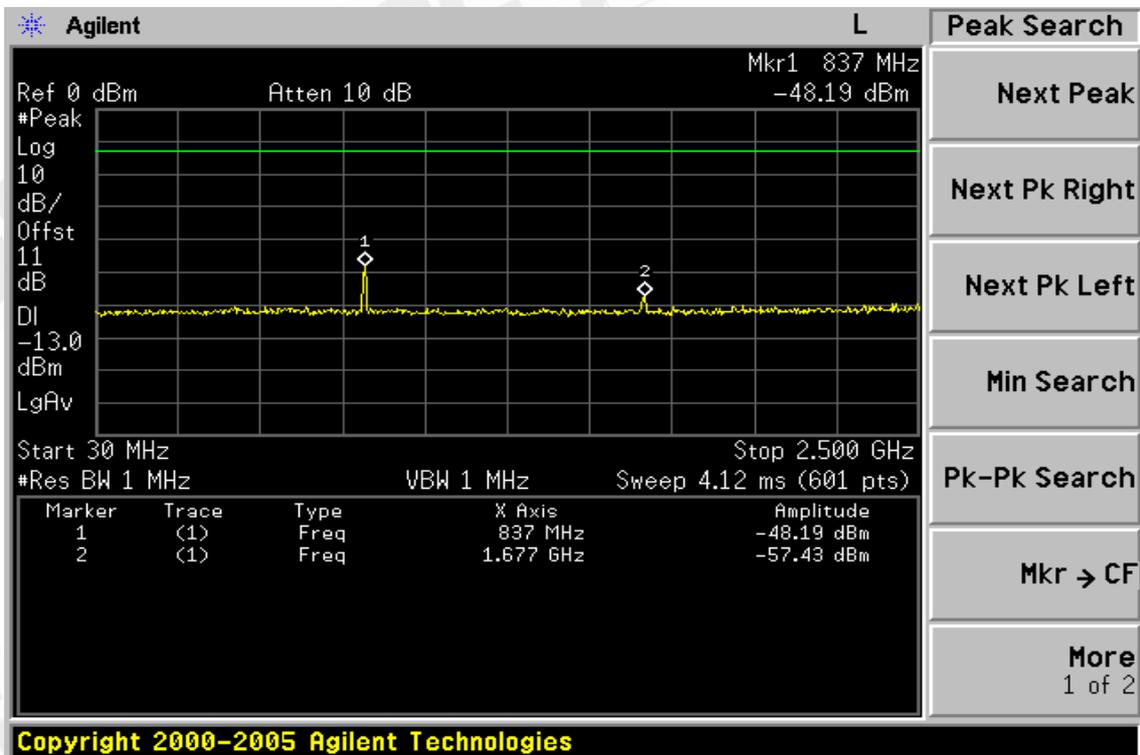
Figure 8-26: Out of Band emission at antenna terminals– WCDMA Band V Channel Lowest



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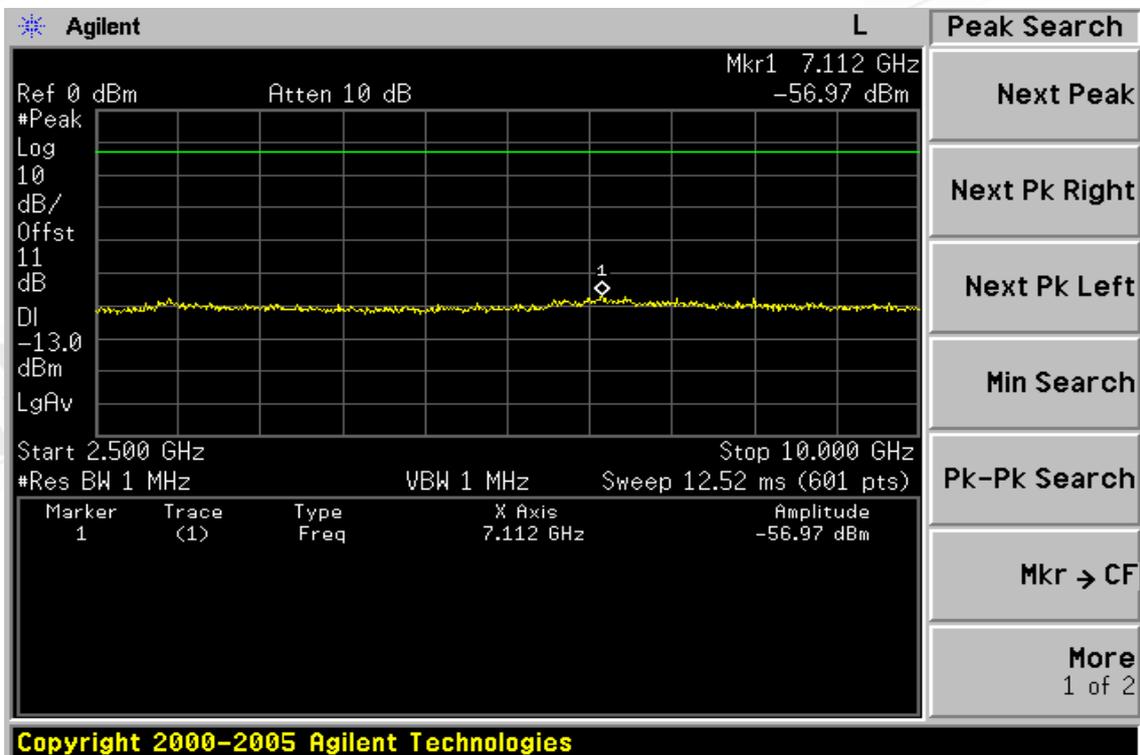
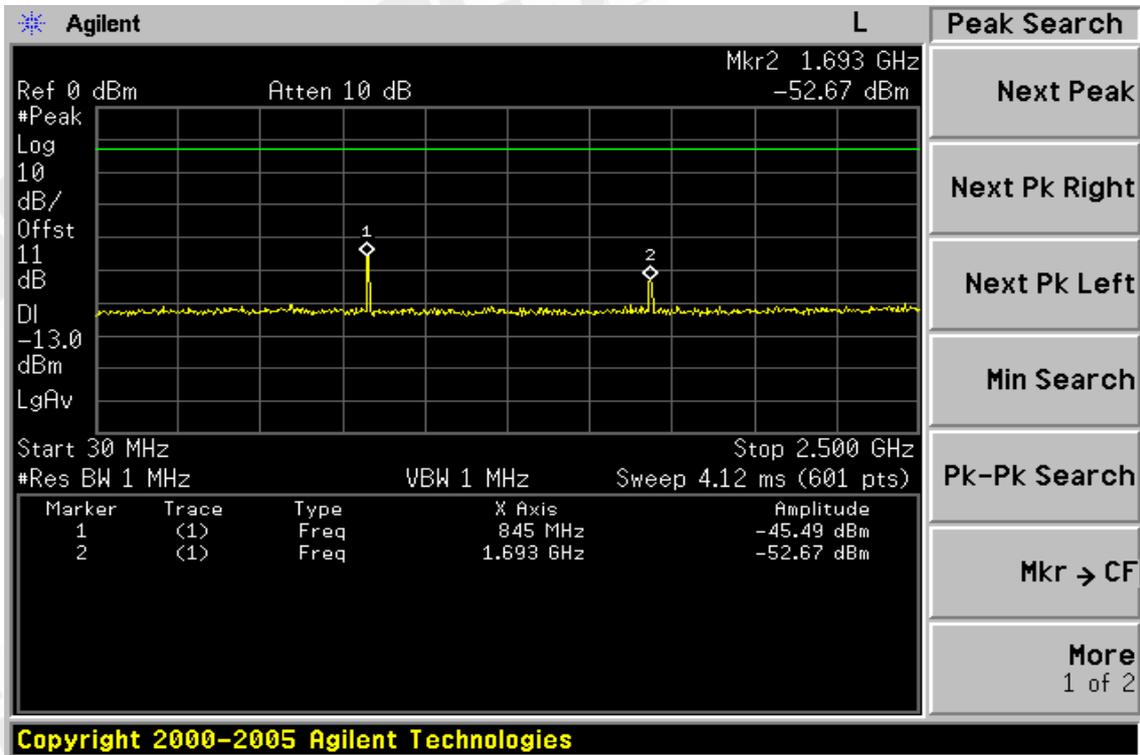
Figure 8-27: Out of Band emission at antenna terminals –WCDMA Band V Channel Mid



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Figure 8-28: Out of Band emission at antenna terminals–WCDMA BAND V Channel Highest



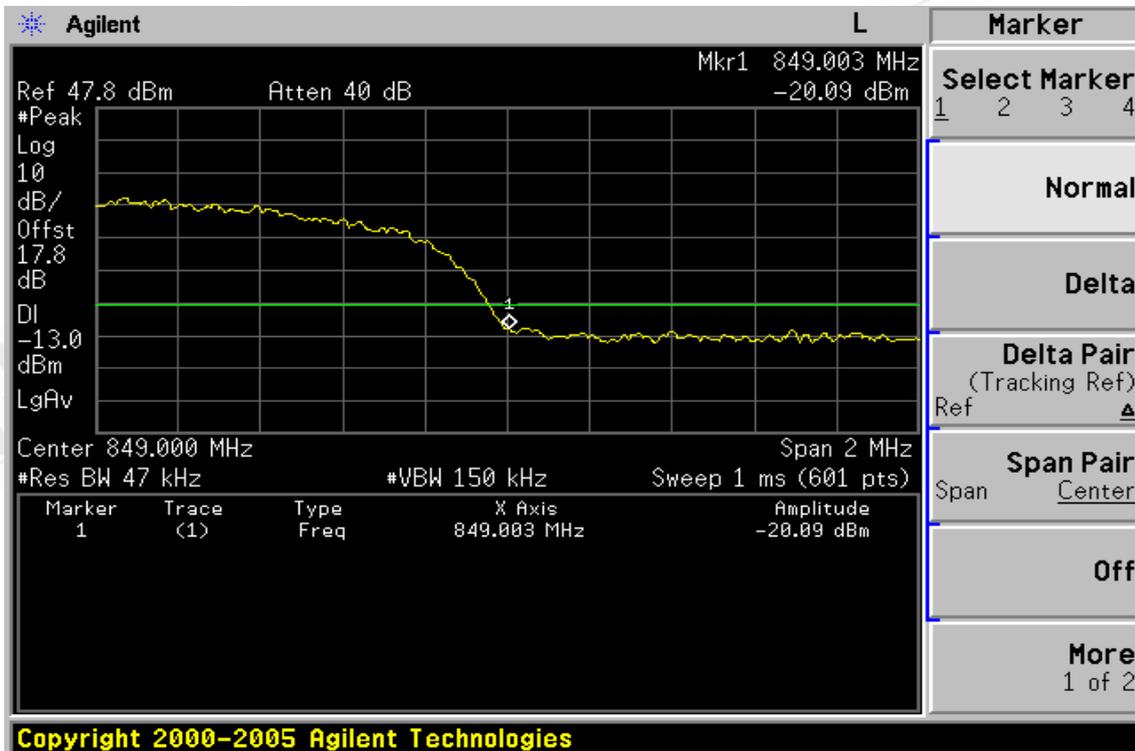
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Figure 8-29: Bad edge emission at antenna terminals – WCDMA BAND V Channel Lowest



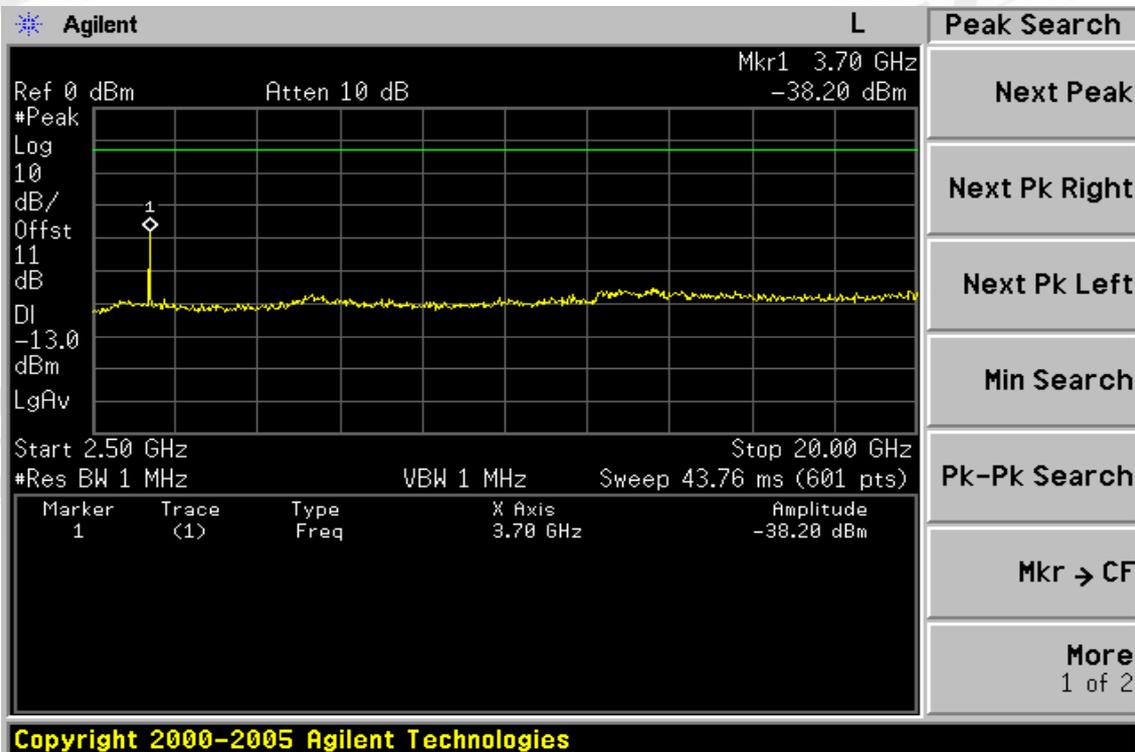
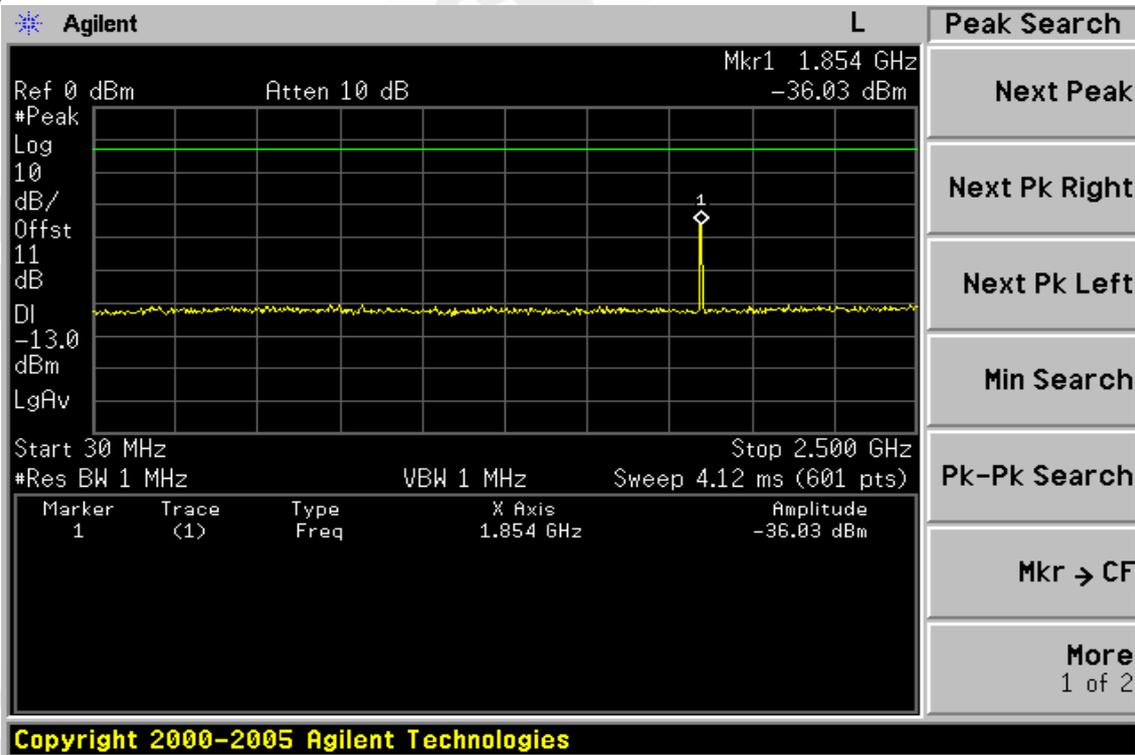
Figure 8-30: Band edge emission at antenna terminals – WCDMA BAND V Channel Highest



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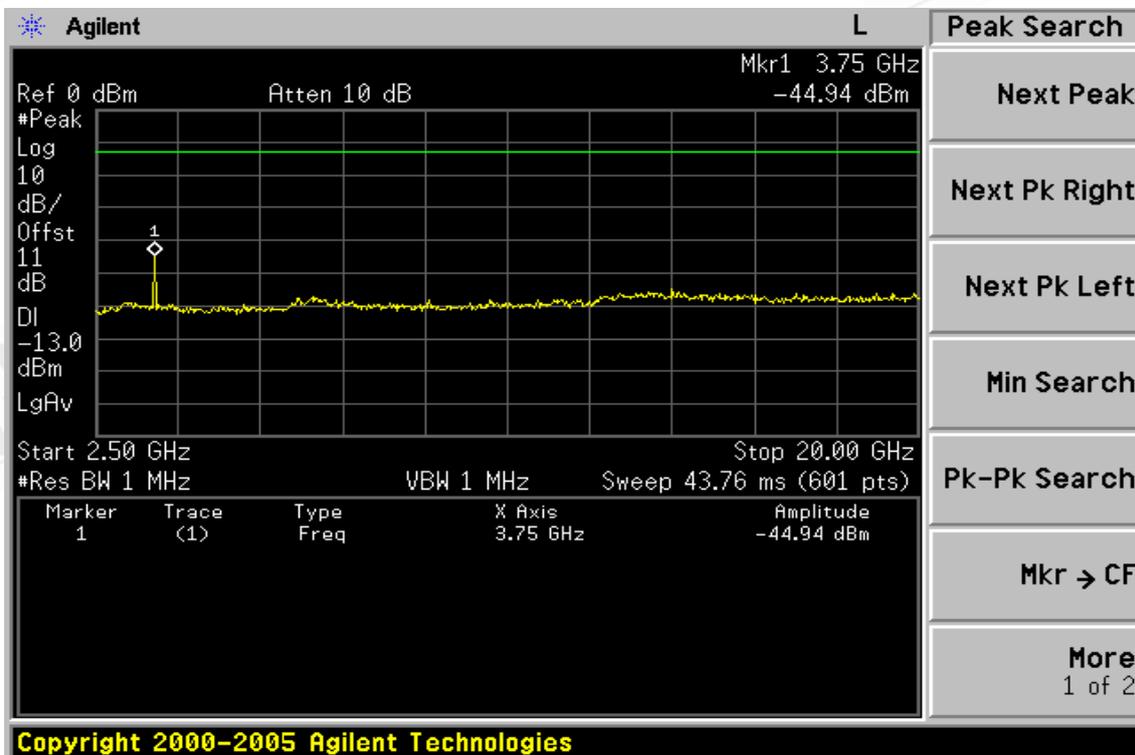
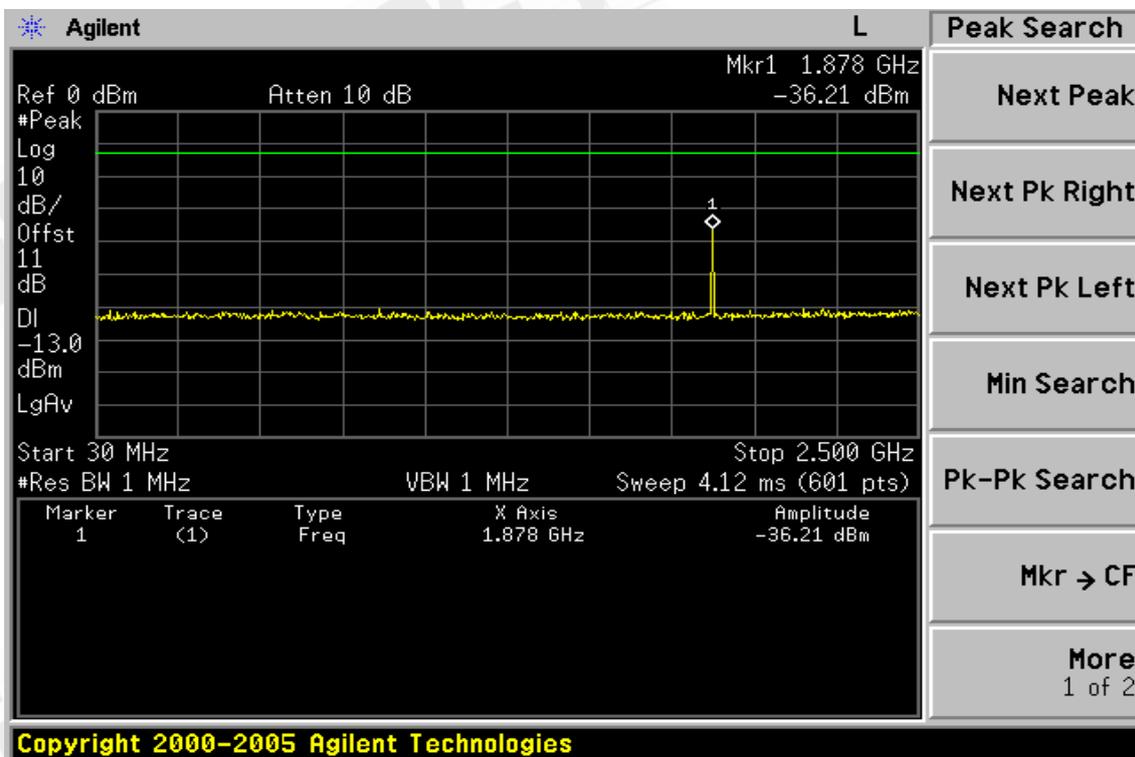
Figure 8-31: Out of Band emission at antenna terminals–HSUPA Band II Channel Lowest



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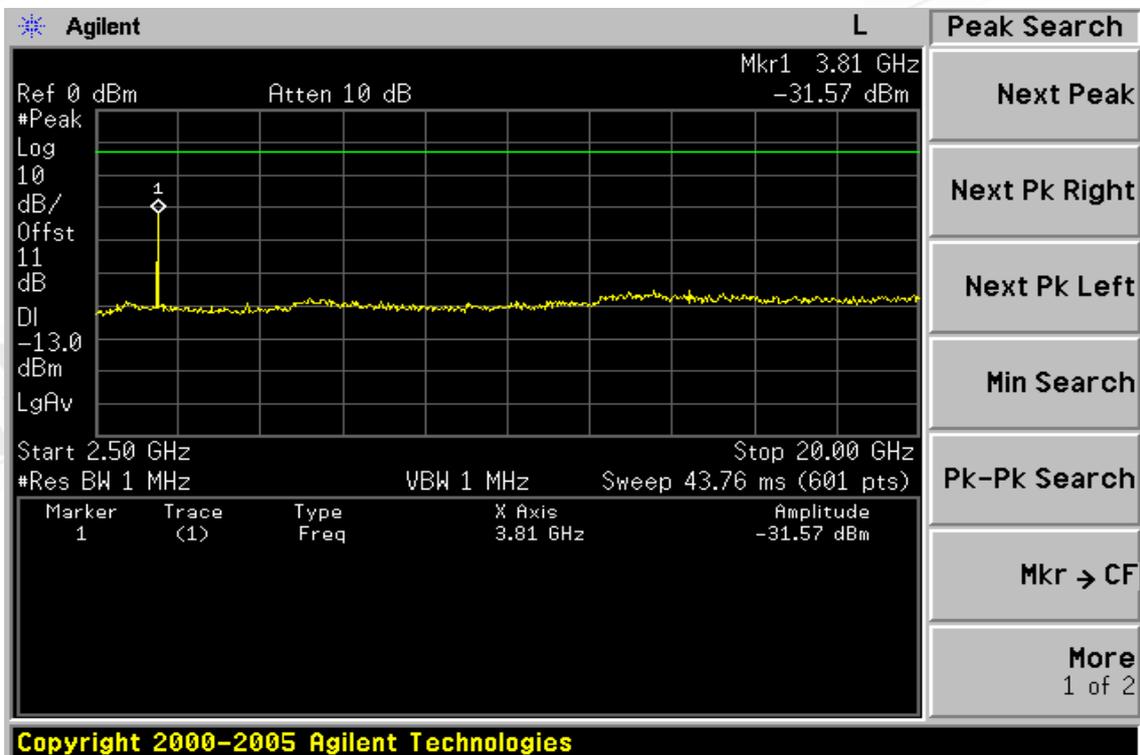
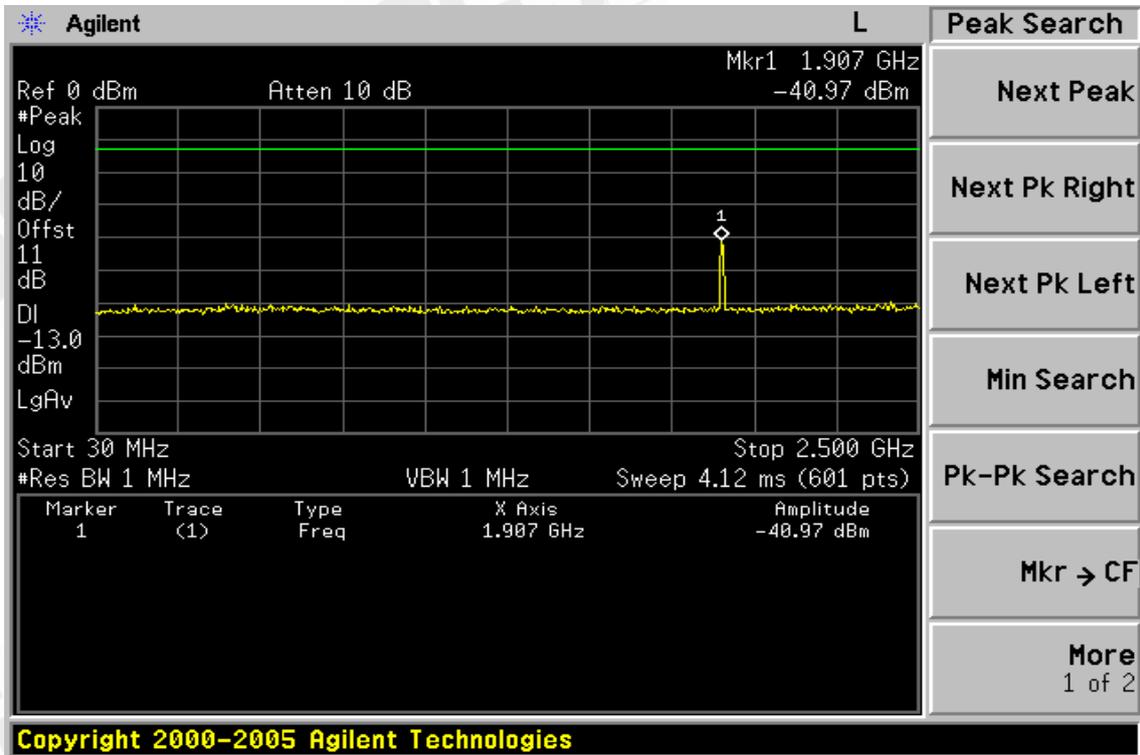
Figure 8-32: Out of Band emission at antenna terminals – HSUPA Band II Channel Mid



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Figure 8-33: Out of Band emission at antenna terminals–HSUPA BAND II Channel Highest



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Figure 8-34: Bad edge emission at antenna terminals –HSUPA BAND II Channel Lowest

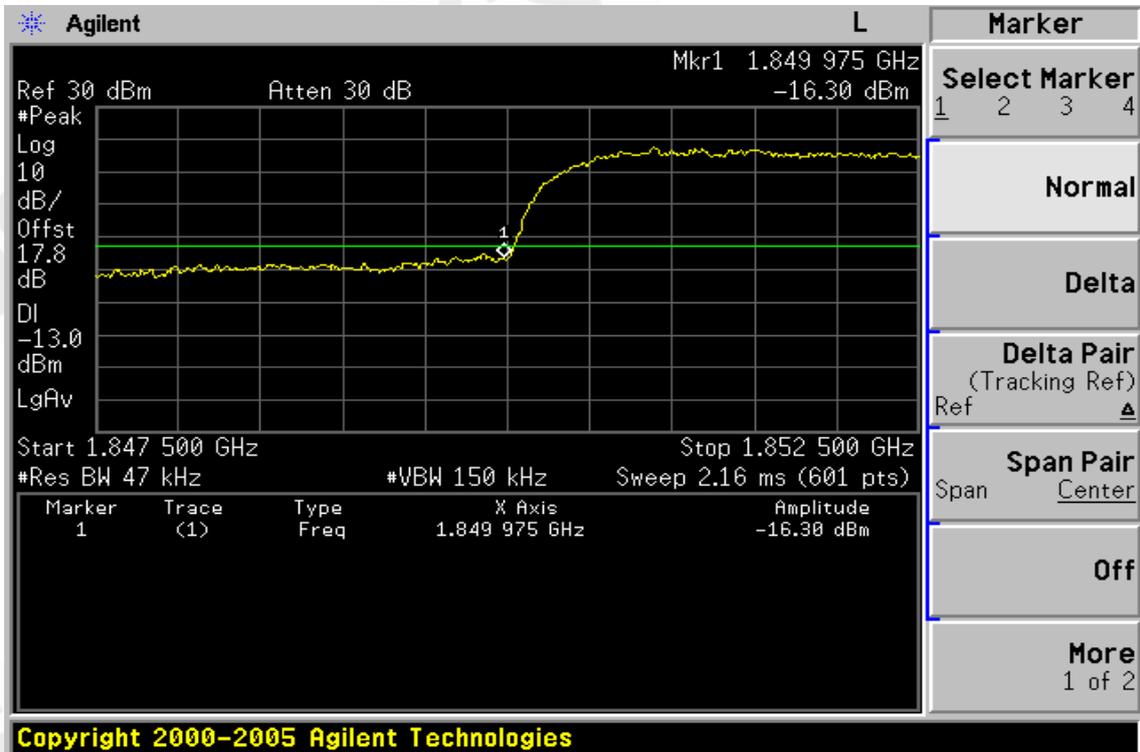
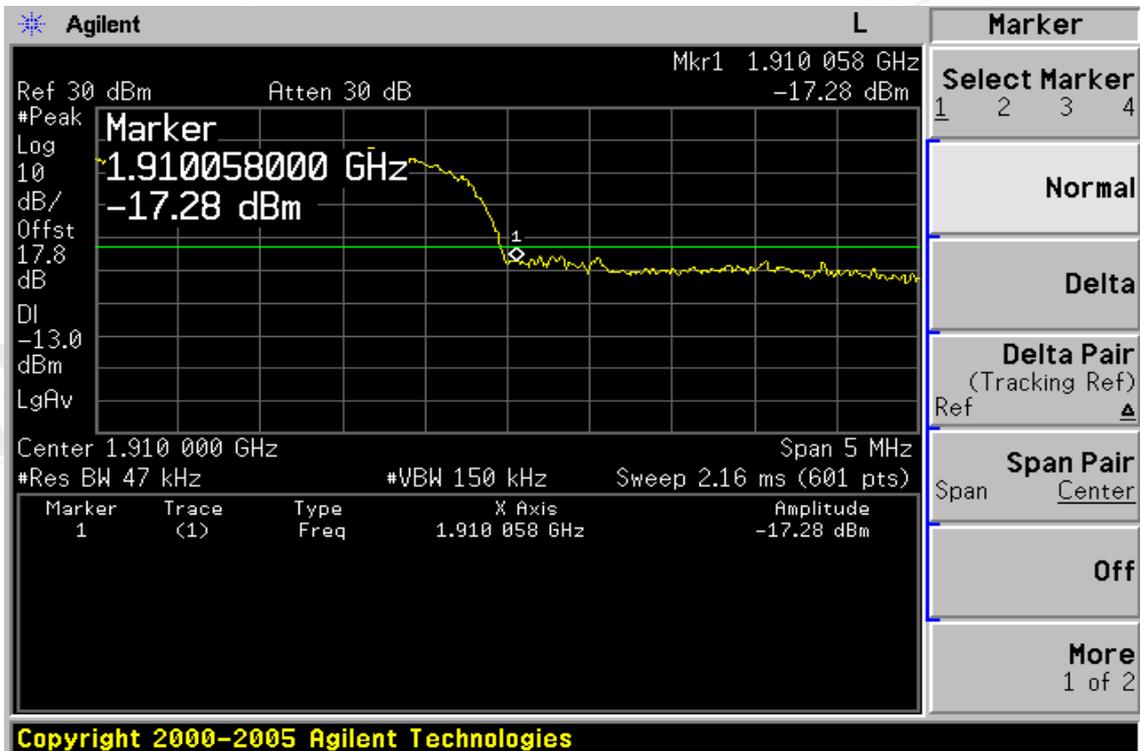


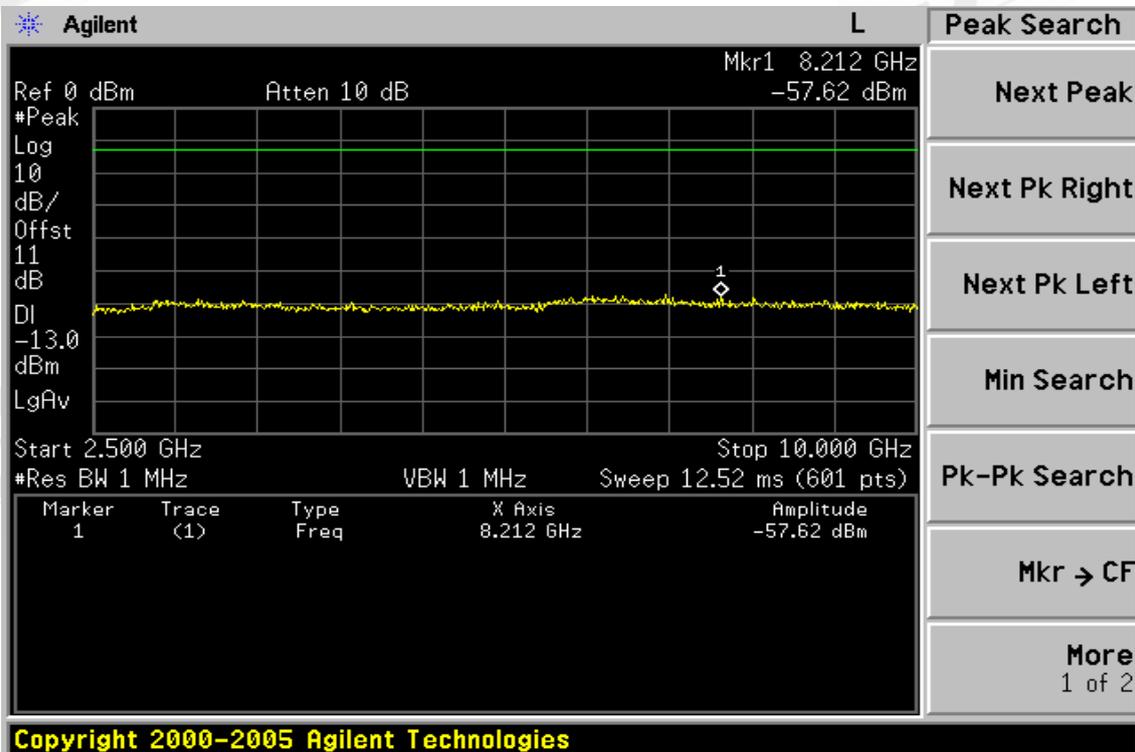
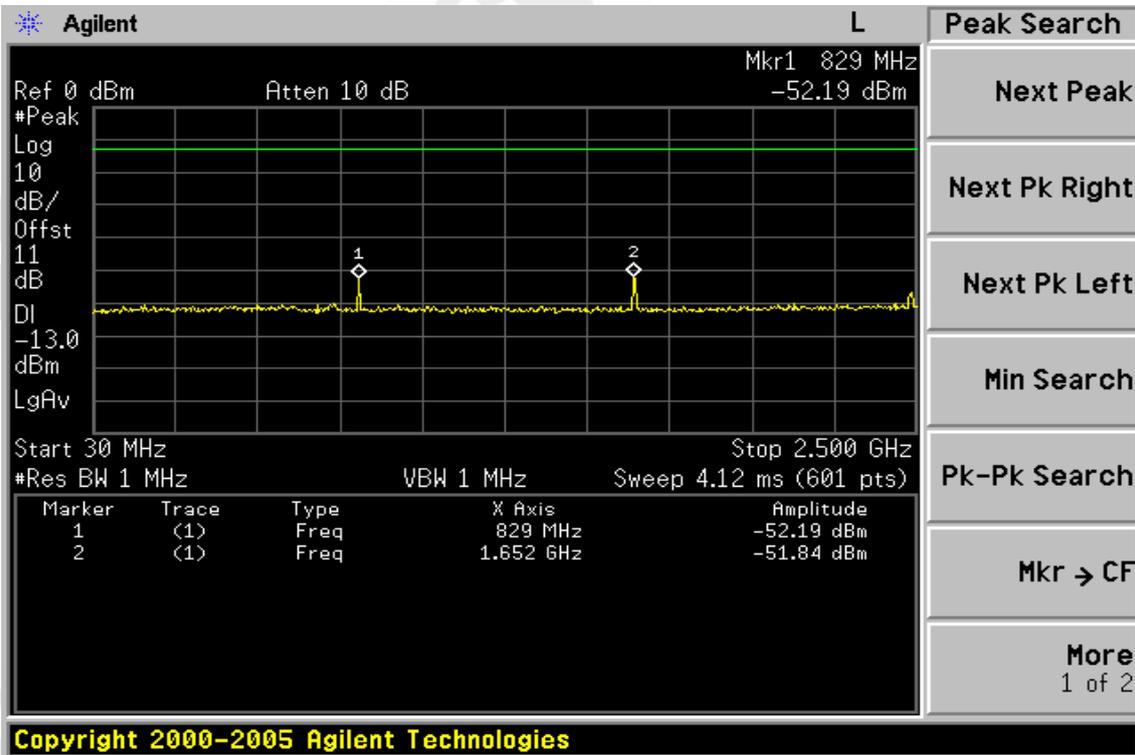
Figure 8-35: Band edge emission at antenna terminals – HSUPA BAND II Channel Highest



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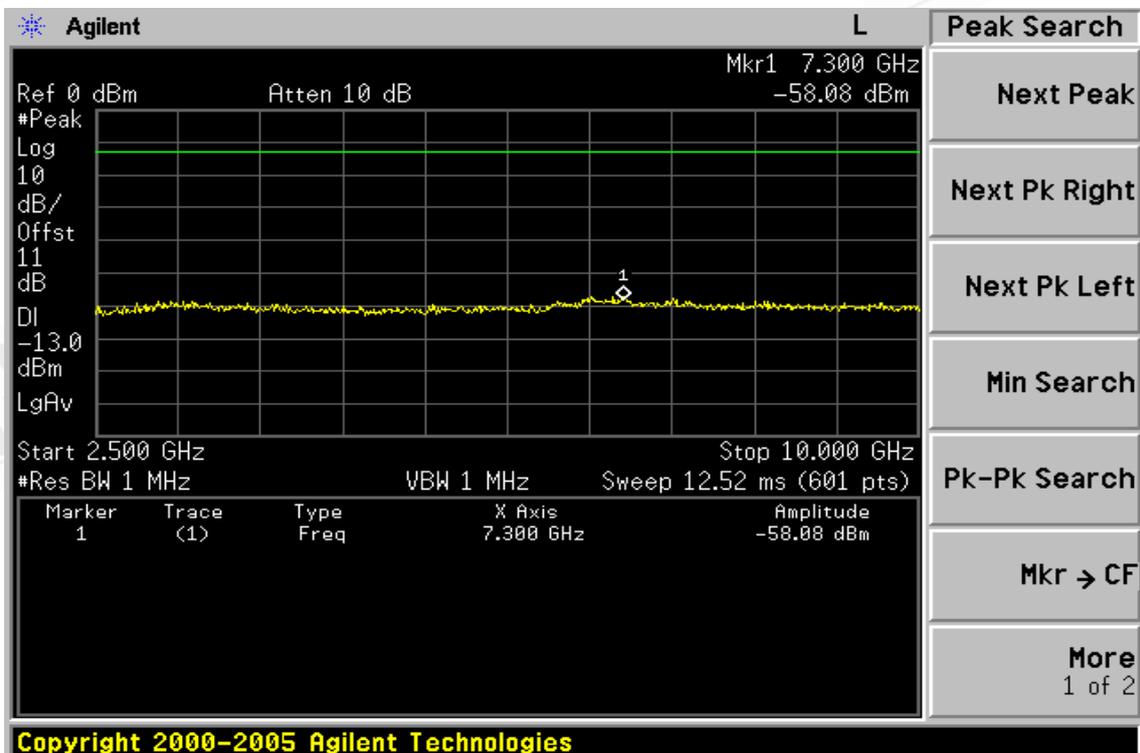
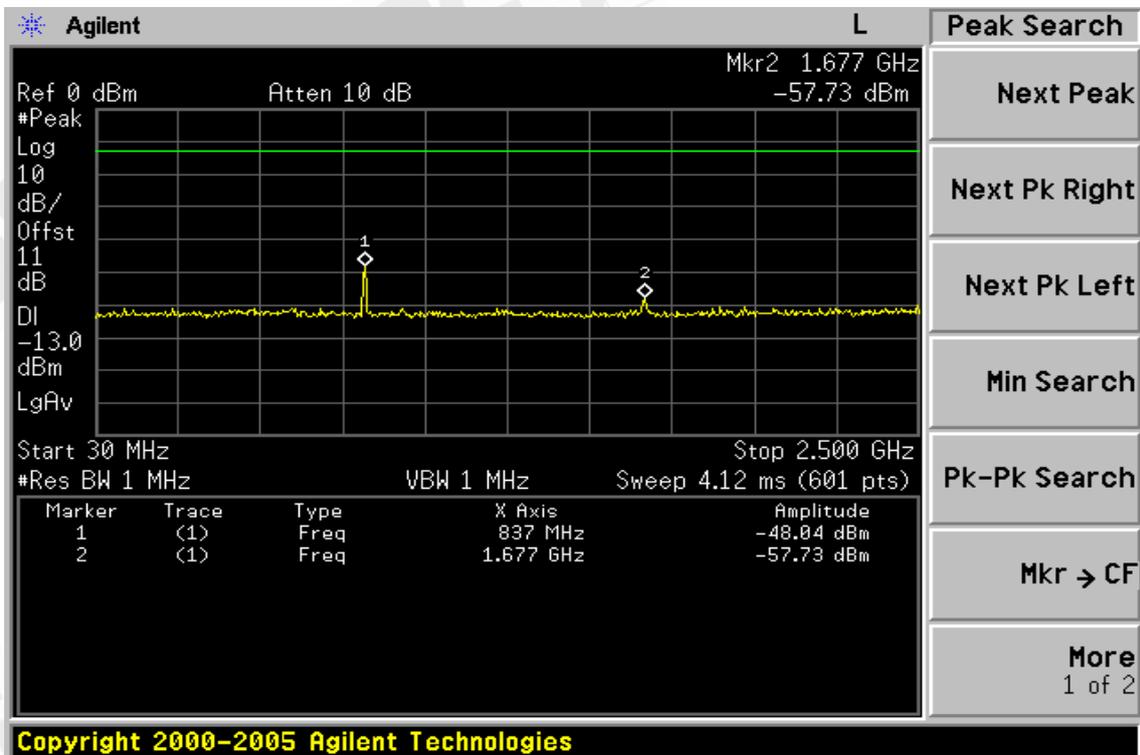
Figure 8-36: Out of Band emission at antenna terminals– HSUPA Band V Channel Lowest



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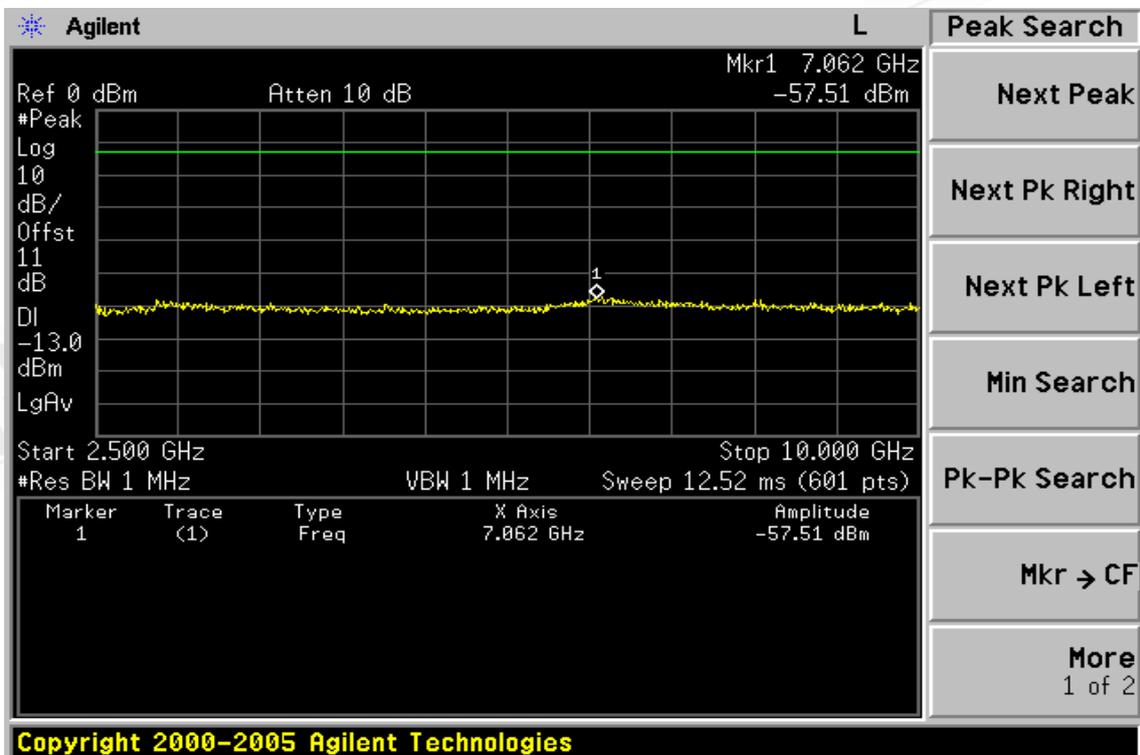
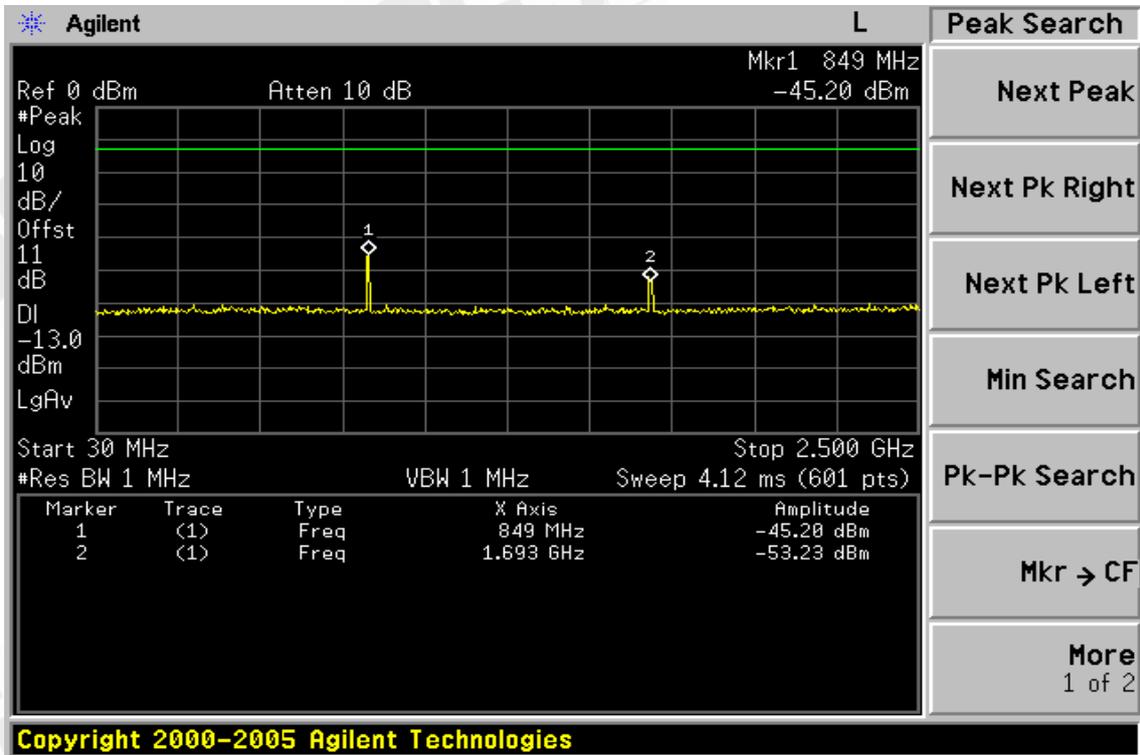
Figure 8-37: Out of Band emission at antenna terminals –HSUPA Band V Channel Mid



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Figure 8-38: Out of Band emission at antenna terminals–HSUPA BAND V Channel Highest



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Figure 8-39: Bad edge emission at antenna terminals –HSUPA BAND V Channel Lowest

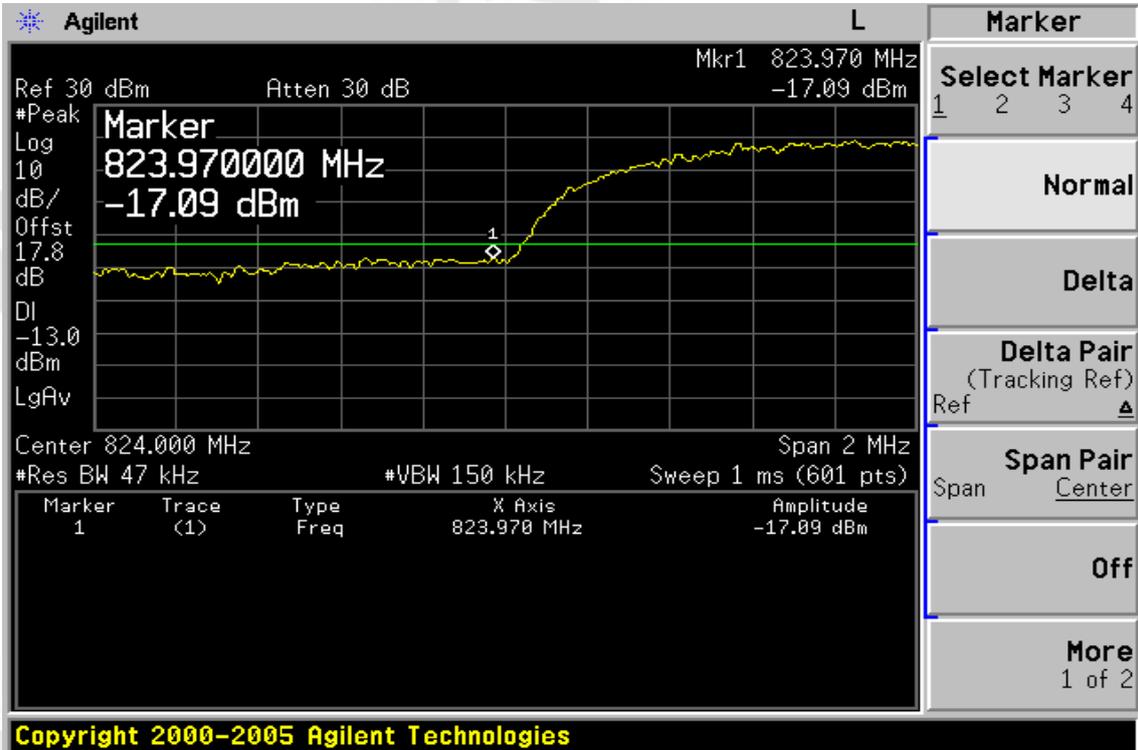
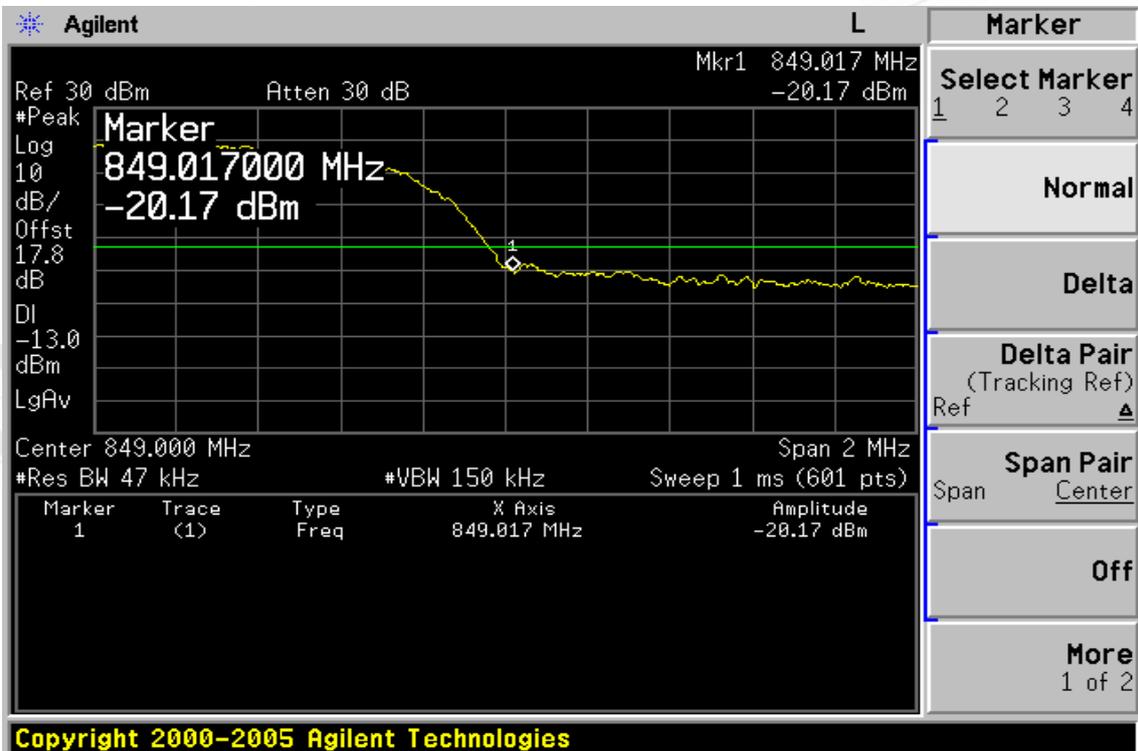


Figure 8-40: Band edge emission at antenna terminals – HSUPA BAND V Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

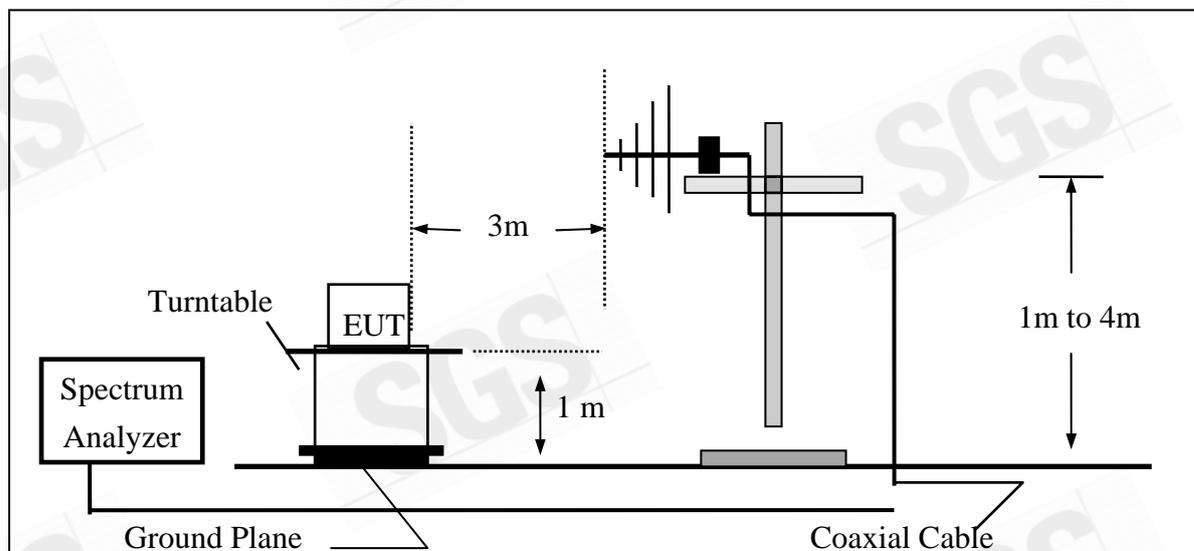
9.1. Standard Applicable

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)

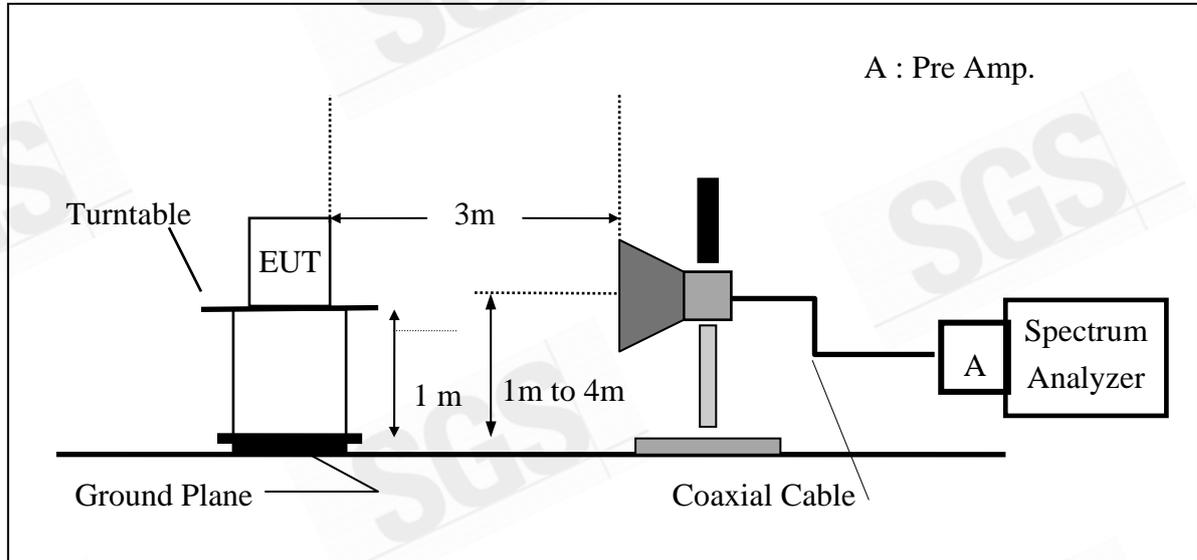
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



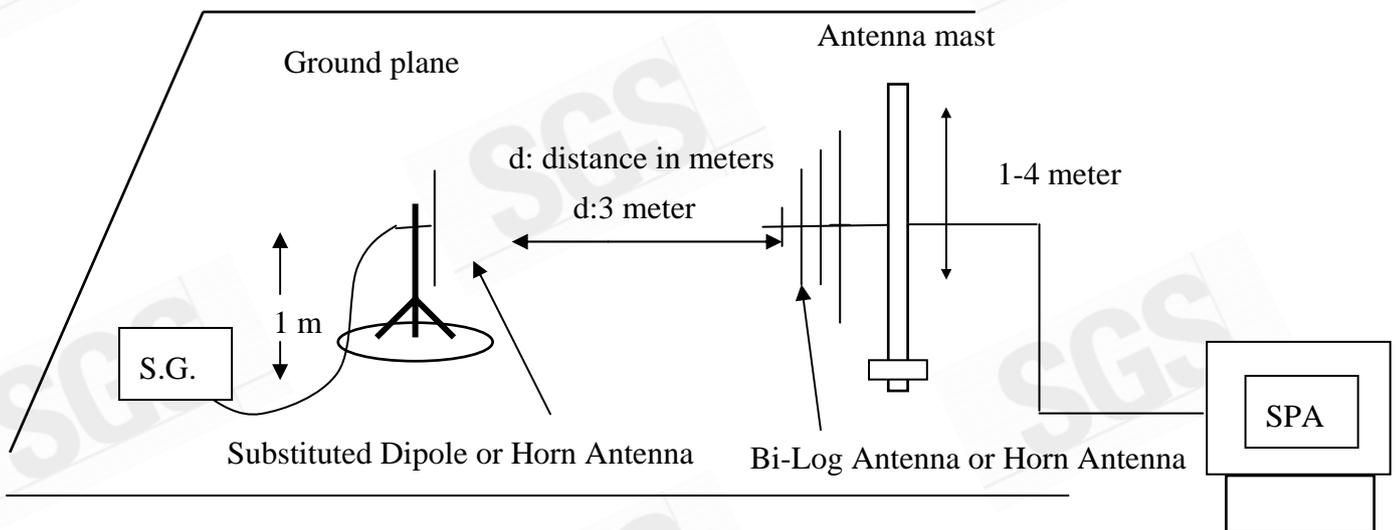
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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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.

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss (dB)}$$

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9.4. Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Radio Communication Analyzer	R & S	CMU200	102189	05/13/208	05/12/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2009	01/04/2010
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2009	01/04/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	HP	8449B	3008A01973	01/05/2009	01/04/2010
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	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009

9.5. Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 824.20 MHz	Test By:	Sky
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)
128.94	53.06	V	-47.12	-7.78	1.36	-56.26	-13.00	-43.26
193.93	47.58	V	-53.97	-7.84	1.55	-63.36	-13.00	-50.36
400.54	45.00	V	-51.04	-7.66	2.41	-61.12	-13.00	-48.12
470.38	41.63	V	-52.99	-7.71	2.63	-63.32	-13.00	-50.32
533.43	46.04	V	-47.53	-7.75	2.74	-58.01	-13.00	-45.01
662.44	42.36	V	-47.96	-7.82	3.08	-58.87	-13.00	-45.87
824.00	75.56	V	-11.77	-7.87	3.64	-23.29	-13.00	-10.29
1648.40	47.44	V	-59.60	9.29	5.06	-55.37	-13.00	-42.37
2472.60	40.13	V	-63.93	10.08	6.30	-60.16	-13.00	-47.16
3296.80	---	V		12.17	7.26		-13.00	
4121.00	---	V		12.61	8.33		-13.00	
4945.20	---	V		12.65	9.19		-13.00	
5769.40	---	V		13.55	9.80		-13.00	
6593.60	---	V		12.05	10.61		-13.00	
7417.80	---	V		11.49	11.28		-13.00	
8242.00	---	V		11.48	12.26		-13.00	

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

Remark :

- 1 The emission behaviors belong 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)

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 824.20 MHz	Test By:	Sky
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
65.89	53.65	H	-58.20	-0.83	0.98	-60.01	-13.00	-47.01
128.94	45.87	H	-54.66	-7.78	1.36	-63.80	-13.00	-50.80
256.98	47.14	H	-53.58	-7.89	1.99	-63.46	-13.00	-50.46
400.54	47.41	H	-48.92	-7.66	2.41	-58.99	-13.00	-45.99
453.89	41.39	H	-53.89	-7.70	2.58	-64.17	-13.00	-51.17
533.43	41.95	H	-50.85	-7.75	2.74	-61.33	-13.00	-48.33
824.43	80.61	H	-7.04	-7.87	3.64	-18.56	-13.00	-5.56
1648.40	50.57	H	-56.44	9.29	5.06	-52.21	-13.00	-39.21
2472.60	44.28	H	-59.78	10.08	6.30	-56.00	-13.00	-43.00
3296.80	---	H		12.17	7.26		-13.00	
4121.00	---	H		12.61	8.33		-13.00	
4945.20	---	H		12.65	9.19		-13.00	
5769.40	---	H		13.55	9.80		-13.00	
6593.60	---	H		12.05	10.61		-13.00	
7417.80	---	H		11.49	11.28		-13.00	
8242.00	---	H		11.48	12.26		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 836.60 MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
128.94	53.03	V	-47.15	-7.78	1.36	-56.29	-13.00	-43.29
193.93	47.37	V	-54.18	-7.84	1.55	-63.57	-13.00	-50.57
400.54	45.50	V	-50.54	-7.66	2.41	-60.62	-13.00	-47.62
470.38	41.93	V	-52.69	-7.71	2.63	-63.02	-13.00	-50.02
533.43	45.21	V	-48.36	-7.75	2.74	-58.84	-13.00	-45.84
662.40	40.37	V	-49.95	-7.82	3.08	-60.86	-13.00	-47.86
1673.20	49.63	V	-57.40	9.36	5.10	-53.14	-13.00	-40.14
2509.80	40.80	V	-63.08	10.09	6.35	-59.34	-13.00	-46.34
3346.40	---	V		12.28	7.29		-13.00	
4183.00	---	V		12.62	8.40		-13.00	
5019.60	---	V		12.67	9.26		-13.00	
5856.20	---	V		13.68	9.85		-13.00	
6692.80	---	V		11.95	10.74		-13.00	
7529.40	---	V		11.45	11.35		-13.00	
8366.00	---	V		11.59	12.43		-13.00	

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

Remark :

- 1 The emission behaviors 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 836.60 MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
64.92	52.57	H	-59.17	-0.77	0.98	-60.91	-13.00	-47.91
128.94	45.34	H	-55.19	-7.78	1.36	-64.33	-13.00	-51.33
256.98	47.23	H	-53.49	-7.89	1.99	-63.37	-13.00	-50.37
400.54	47.01	H	-49.32	-7.66	2.41	-59.39	-13.00	-46.39
453.89	40.65	H	-54.63	-7.70	2.58	-64.91	-13.00	-51.91
533.43	41.08	H	-51.72	-7.75	2.74	-62.20	-13.00	-49.20
1673.20	54.85	H	-52.15	9.36	5.10	-47.88	-13.00	-34.88
2509.80	53.17	H	-50.70	10.09	6.35	-46.96	-13.00	-33.96
3346.40	---	H		12.28	7.29		-13.00	
4183.00	---	H		12.62	8.40		-13.00	
5019.60	---	H		12.67	9.26		-13.00	
5856.20	---	H		13.68	9.85		-13.00	
6692.80	---	H		11.95	10.74		-13.00	
7529.40	---	H		11.45	11.35		-13.00	
8366.00	---	H		11.59	12.43		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 848.80 MHz	Test By:	Sky
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)
130.88	53.11	V	-46.83	-7.78	1.37	-55.99	-13.00	-42.99
191.99	47.22	V	-54.16	-7.83	1.55	-63.54	-13.00	-50.54
400.54	45.04	V	-51.00	-7.66	2.41	-61.08	-13.00	-48.08
533.43	45.77	V	-47.80	-7.75	2.74	-58.28	-13.00	-45.28
654.68	38.27	V	-52.12	-7.81	3.03	-62.96	-13.00	-49.96
850.00	77.89	V	-8.82	-7.88	3.75	-20.45	-13.00	-7.45
1697.60	46.29	V	-60.73	9.44	5.14	-56.44	-13.00	-43.44
2546.40	54.88	V	-48.91	10.20	6.40	-45.11	-13.00	-32.11
3395.20	---	V		12.38	7.33		-13.00	
4244.00	51.91	V	-47.44	12.63	8.46	-43.27	-13.00	-30.27
5092.80	---	V		12.74	9.32		-13.00	
5941.60	41.97	V	-52.13	13.81	9.89	-48.21	-13.00	-35.21
6790.40	---	V		11.86	10.87		-13.00	
7639.20	---	V		11.40	11.48		-13.00	
8488.00	---	V		11.70	12.59		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High H Mode
 Fundamental Frequency : 848.80 MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Hor

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)
65.89	52.66	H	-59.19	-0.83	0.98	-61.00	-13.00	-48.00
128.94	45.32	H	-55.21	-7.78	1.36	-64.35	-13.00	-51.35
256.98	48.12	H	-52.60	-7.89	1.99	-62.48	-13.00	-49.48
397.63	47.04	H	-49.34	-7.66	2.42	-59.41	-13.00	-46.41
458.74	40.64	H	-54.50	-7.70	2.59	-64.79	-13.00	-51.79
531.49	40.82	H	-52.04	-7.75	2.74	-62.52	-13.00	-49.52
850.00	82.81	H	-4.18	-7.88	3.75	-15.81	-13.00	-2.81
1697.60	56.59	H	-50.39	9.44	5.14	-46.10	-13.00	-33.10
2546.40	69.10	H	-34.68	10.20	6.40	-30.88	-13.00	-17.88
3395.20	---	H		12.38	7.33		-13.00	
4244.00	53.14	H	-46.05	12.63	8.46	-41.88	-13.00	-28.88
5092.80	---	H		12.74	9.32		-13.00	
5941.60	43.77	H	-50.32	13.81	9.89	-46.40	-13.00	-33.40
6790.40	---	H		11.86	10.87		-13.00	
7639.20	---	H		11.40	11.48		-13.00	
8488.00	---	H		11.70	12.59		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low H Mode
 Fundamental Frequency : 1850.20MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
128.94	53.75	V	-46.43	-7.78	1.36	-55.57	-13.00	-42.57
193.93	47.06	V	-54.49	-7.84	1.55	-63.88	-13.00	-50.88
400.54	45.03	V	-51.01	-7.66	2.41	-61.09	-13.00	-48.09
460.68	41.97	V	-52.65	-7.70	2.60	-62.95	-13.00	-49.95
533.43	44.31	V	-49.26	-7.75	2.74	-59.74	-13.00	-46.74
664.38	37.97	V	-52.34	-7.82	3.09	-63.25	-13.00	-50.25
1850.00	73.41	V	-33.55	9.90	5.41	-29.06	-13.00	-16.06
3700.40	39.14	V	-62.44	12.61	7.73	-57.56	-13.00	-44.56
5550.60	---	V		13.23	9.68		-13.00	
7400.80	---	V		11.50	11.28		-13.00	
9251.00	---	V		11.92	13.10		-13.00	
11101.20	---	V		11.66	14.33		-13.00	
12951.40	---	V		13.63	15.98		-13.00	
14801.60	---	V		12.76	17.27		-13.00	
16651.80	---	V		15.92	19.04		-13.00	
18502.00	---	V		18.75	21.21		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low H Mode
 Fundamental Frequency : 1850.20MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Hor

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
65.89	53.25	H	-58.60	-0.83	0.98	-60.41	-13.00	-47.41
256.98	47.89	H	-52.83	-7.89	1.99	-62.71	-13.00	-49.71
397.63	47.83	H	-48.55	-7.66	2.42	-58.62	-13.00	-45.62
431.58	41.41	H	-54.34	-7.69	2.51	-64.53	-13.00	-51.53
533.43	41.87	H	-50.93	-7.75	2.74	-61.41	-13.00	-48.41
662.44	37.75	H	-52.43	-7.82	3.08	-63.33	-13.00	-50.33
1850.00	80.88	H	-26.01	9.90	5.41	-21.52	-13.00	-8.52
3700.40	40.32	H	-61.04	12.61	7.73	-56.16	-13.00	-43.16
5550.60	---	H		13.23	9.68		-13.00	
7400.80	---	H		11.50	11.28		-13.00	
9251.00	---	H		11.92	13.10		-13.00	
11101.20	---	H		11.66	14.33		-13.00	
12951.40	---	H		13.63	15.98		-13.00	
14801.60	---	H		12.76	17.27		-13.00	
16651.80	---	H		15.92	19.04		-13.00	
18502.00	---	H		18.75	21.21		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

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)
130.88	53.33	V	-46.61	-7.78	1.37	-55.77	-13.00	-42.77
193.93	48.03	V	-53.52	-7.84	1.55	-62.91	-13.00	-49.91
400.54	45.46	V	-50.58	-7.66	2.41	-60.66	-13.00	-47.66
460.68	41.84	V	-52.78	-7.70	2.60	-63.08	-13.00	-50.08
533.43	46.18	V	-47.39	-7.75	2.74	-57.87	-13.00	-44.87
664.38	39.54	V	-50.77	-7.82	3.09	-61.68	-13.00	-48.68
3760.00	43.57	V	-57.73	12.60	7.82	-52.95	-13.00	-39.95
5640.00	---	V		13.36	9.73		-13.00	
7520.00	---	V		11.45	11.33		-13.00	
9400.00	---	V		11.93	13.15		-13.00	
11280.00	---	V		11.92	14.56		-13.00	
13160.00	---	V		13.33	16.11		-13.00	
15040.00	---	V		13.76	17.57		-13.00	
16920.00	---	V		15.27	19.66		-13.00	
18800.00	---	V		18.68	21.34		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Hor

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)
65.89	52.53	H	-59.32	-0.83	0.98	-61.13	-13.00	-48.13
130.88	45.43	H	-54.92	-7.78	1.37	-64.07	-13.00	-51.07
259.89	46.59	H	-54.05	-7.90	1.99	-63.94	-13.00	-50.94
400.54	46.85	H	-49.48	-7.66	2.41	-59.55	-13.00	-46.55
455.83	40.93	H	-54.29	-7.70	2.58	-64.58	-13.00	-51.58
533.43	42.18	H	-50.62	-7.75	2.74	-61.10	-13.00	-48.10
3760.00	36.61	H	-64.50	12.60	7.82	-59.71	-13.00	-46.71
5640.00	---	H		13.36	9.73		-13.00	
7520.00	---	H		11.45	11.33		-13.00	
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High H Mode
 Fundamental Frequency : 1909.8 MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

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)
128.94	52.32	V	-47.86	-7.78	1.36	-57.00	-13.00	-44.00
193.93	47.59	V	-53.96	-7.84	1.55	-63.35	-13.00	-50.35
400.54	45.74	V	-50.30	-7.66	2.41	-60.38	-13.00	-47.38
468.44	40.47	V	-54.15	-7.71	2.62	-64.48	-13.00	-51.48
533.43	45.41	V	-48.16	-7.75	2.74	-58.64	-13.00	-45.64
662.44	39.36	V	-50.96	-7.82	3.08	-61.87	-13.00	-48.87
1910.00	75.27	V	-31.67	10.08	5.51	-27.10	-13.00	-14.10
3981.60	41.31	V	-58.97	12.60	8.17	-54.55	-13.00	-41.55
5972.40	---	V		13.86	9.91		-13.00	
7963.20	---	V		11.27	11.88		-13.00	
9954.00	---	V		12.08	13.43		-13.00	
11944.80	---	V		13.08	15.21		-13.00	
13935.60	---	V		11.82	16.86		-13.00	
15926.40	---	V		17.08	18.33		-13.00	
17917.20	---	V		9.63	20.12		-13.00	
19908.00	---	V		18.88	20.85		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1909.8 MHz	Test By:	Sky
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)
65.89	53.36	H	-58.49	-0.83	0.98	-60.30	-13.00	-47.30
128.94	45.86	H	-54.67	-7.78	1.36	-63.81	-13.00	-50.81
259.89	48.77	H	-51.87	-7.90	1.99	-61.76	-13.00	-48.76
400.54	46.80	H	-49.53	-7.66	2.41	-59.60	-13.00	-46.60
431.58	41.72	H	-54.03	-7.69	2.51	-64.22	-13.00	-51.22
533.43	42.34	H	-50.46	-7.75	2.74	-60.94	-13.00	-47.94
1910.00	79.45	H	-27.40	10.08	5.51	-22.84	-13.00	-9.84
3821.00	38.06	H	-62.79	12.60	7.92	-58.11	-13.00	-45.11
3981.60	---	H		12.60	8.17		-13.00	
5972.40	---	H		13.86	9.91		-13.00	
7963.20	---	H		11.27	11.88		-13.00	
9954.00	---	H		12.08	13.43		-13.00	
11944.80	---	H		13.08	15.21		-13.00	
13935.60	---	H		11.82	16.86		-13.00	
15926.40	---	H		17.08	18.33		-13.00	
17917.20	---	H		9.63	20.12		-13.00	
19908.00	---	H		18.88	20.85		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 824.20 MHz	Test By:	Sky
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)
133.79	52.24	V	-47.34	-7.79	1.39	-56.52	-13.00	-43.52
400.54	44.47	V	-51.57	-7.66	2.41	-61.65	-13.00	-48.65
460.68	41.79	V	-52.83	-7.70	2.60	-63.13	-13.00	-50.13
531.49	45.34	V	-48.29	-7.75	2.74	-58.77	-13.00	-45.77
654.68	38.18	V	-52.21	-7.81	3.03	-63.05	-13.00	-50.05
698.33	37.65	V	-52.36	-7.86	3.31	-63.53	-13.00	-50.53
824.00	64.80	V	-22.53	-7.87	3.64	-34.05	-13.00	-21.05
1648.40	38.41	V	-68.63	9.29	5.06	-64.40	-13.00	-51.40
2472.60	---	V		10.08	6.30		-13.00	
3296.80	---	V		12.17	7.26		-13.00	
4121.00	---	V		12.61	8.33		-13.00	
4945.20	---	V		12.65	9.19		-13.00	
5769.40	---	V		13.55	9.80		-13.00	
6593.60	---	V		12.05	10.61		-13.00	
7417.80	---	V		11.49	11.28		-13.00	
8242.00	---	V		11.48	12.26		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 824.20 MHz	Test By:	Sky
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	48.15	H	-51.93	-7.79	1.39	-61.10	-13.00	-48.10
264.74	47.10	H	-53.42	-7.90	1.99	-63.30	-13.00	-50.30
400.54	46.81	H	-49.52	-7.66	2.41	-59.59	-13.00	-46.59
431.58	42.05	H	-53.70	-7.69	2.51	-63.89	-13.00	-50.89
450.98	40.85	H	-54.52	-7.70	2.57	-64.79	-13.00	-51.79
531.49	40.28	H	-52.58	-7.75	2.74	-63.06	-13.00	-50.06
824.00	71.87	H	-15.79	-7.87	3.64	-27.31	-13.00	-14.31
1648.40	44.02	H	-62.99	9.29	5.06	-58.76	-13.00	-45.76
2472.60	---	H		10.08	6.30		-13.00	
3296.80	---	H		12.17	7.26		-13.00	
4121.00	---	H		12.61	8.33		-13.00	
4945.20	---	H		12.65	9.19		-13.00	
5769.40	---	H		13.55	9.80		-13.00	
6593.60	---	H		12.05	10.61		-13.00	
7417.80	---	H		11.49	11.28		-13.00	
8242.00	---	H		11.48	12.26		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 836.60 MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	51.95	V	-47.63	-7.79	1.39	-56.81	-13.00	-43.81
400.54	44.56	V	-51.48	-7.66	2.41	-61.56	-13.00	-48.56
460.68	40.97	V	-53.65	-7.70	2.60	-63.95	-13.00	-50.95
533.43	45.58	V	-47.99	-7.75	2.74	-58.47	-13.00	-45.47
567.38	40.24	V	-51.92	-7.77	2.81	-62.50	-13.00	-49.50
698.33	38.94	V	-51.07	-7.86	3.31	-62.24	-13.00	-49.24
1673.20	38.18	V	-68.85	9.36	5.10	-64.59	-13.00	-51.59
2509.80	---	V		10.09	6.35		-13.00	
3346.40	---	V		12.28	7.29		-13.00	
4183.00	---	V		12.62	8.40		-13.00	
5019.60	---	V		12.67	9.26		-13.00	
5856.20	---	V		13.68	9.85		-13.00	
6692.80	---	V		11.95	10.74		-13.00	
7529.40	---	V		11.45	11.35		-13.00	
8366.00	---	V		11.59	12.43		-13.00	

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

Remark :

- 1 The emission behaviors 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 836.60 MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	47.73	H	-52.35	-7.79	1.39	-61.52	-13.00	-48.52
259.89	45.36	H	-55.28	-7.90	1.99	-65.17	-13.00	-52.17
397.63	47.52	H	-48.86	-7.66	2.42	-58.93	-13.00	-45.93
431.58	42.36	H	-53.39	-7.69	2.51	-63.58	-13.00	-50.58
455.83	40.65	H	-54.57	-7.70	2.58	-64.86	-13.00	-51.86
533.43	40.51	H	-52.29	-7.75	2.74	-62.77	-13.00	-49.77
1673.20	43.03	H	-63.97	9.36	5.10	-59.70	-13.00	-46.70
2509.80	38.71	H	-65.16	10.09	6.35	-61.42	-13.00	-48.42
3346.40	---	H		12.28	7.29		-13.00	
4183.00	---	H		12.62	8.40		-13.00	
5019.60	---	H		12.67	9.26		-13.00	
5856.20	---	H		13.68	9.85		-13.00	
6692.80	---	H		11.95	10.74		-13.00	
7529.40	---	H		11.45	11.35		-13.00	
8366.00	---	H		11.59	12.43		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 848.80 MHz	Test By:	Sky
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	51.32	V	-48.26	-7.79	1.39	-57.44	-13.00	-44.44
193.93	45.71	V	-55.84	-7.84	1.55	-65.23	-13.00	-52.23
400.54	44.51	V	-51.53	-7.66	2.41	-61.61	-13.00	-48.61
533.43	46.71	V	-46.86	-7.75	2.74	-57.34	-13.00	-44.34
664.38	39.25	V	-51.06	-7.82	3.09	-61.97	-13.00	-48.97
696.39	39.89	V	-50.14	-7.86	3.30	-61.30	-13.00	-48.30
850.00	67.48	V	-19.23	-7.88	3.75	-30.86	-13.00	-17.86
1697.60	37.99	V	-69.03	9.44	5.14	-64.74	-13.00	-51.74
2546.40	37.71	V	-66.08	10.20	6.40	-62.28	-13.00	-49.28
3395.20	---	V		12.38	7.33		-13.00	
4244.00	---	V		12.63	8.46		-13.00	
5092.80	---	V		12.74	9.32		-13.00	
5941.60	---	V		13.81	9.89		-13.00	
6790.40	---	V		11.86	10.87		-13.00	
7639.20	---	V		11.40	11.48		-13.00	
8488.00	---	V		11.70	12.59		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 848.80 MHz	Test By:	Sky
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)
133.79	48.03	H	-52.05	-7.79	1.39	-61.22	-13.00	-48.22
256.98	46.02	H	-54.70	-7.89	1.99	-64.58	-13.00	-51.58
400.54	47.25	H	-49.08	-7.66	2.41	-59.15	-13.00	-46.15
431.58	41.36	H	-54.39	-7.69	2.51	-64.58	-13.00	-51.58
458.74	40.45	H	-54.69	-7.70	2.59	-64.98	-13.00	-51.98
531.49	41.43	H	-51.43	-7.75	2.74	-61.91	-13.00	-48.91
850.00	74.65	H	-12.34	-7.88	3.75	-23.97	-13.00	-10.97
1697.60	41.66	H	-65.32	9.44	5.14	-61.03	-13.00	-48.03
2546.40	43.31	H	-60.47	10.20	6.40	-56.67	-13.00	-43.67
3395.20	---	H		12.38	7.33		-13.00	
4244.00	---	H		12.63	8.46		-13.00	
5092.80	---	H		12.74	9.32		-13.00	
5941.60	---	H		13.81	9.89		-13.00	
6790.40	---	H		11.86	10.87		-13.00	
7639.20	---	H		11.40	11.48		-13.00	
8488.00	---	H		11.70	12.59		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH Low H Mode
 Fundamental Frequency : 1850.20MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	51.62	V	-47.96	-7.79	1.39	-57.14	-13.00	-44.14
400.54	44.58	V	-51.46	-7.66	2.41	-61.54	-13.00	-48.54
463.59	41.53	V	-53.09	-7.71	2.61	-63.40	-13.00	-50.40
531.49	46.02	V	-47.61	-7.75	2.74	-58.09	-13.00	-45.09
662.44	38.55	V	-51.77	-7.82	3.08	-62.68	-13.00	-49.68
696.39	38.20	V	-51.83	-7.86	3.30	-62.99	-13.00	-49.99
1850.00	65.55	V	-41.41	9.90	5.41	-36.92	-13.00	-23.92
3700.40	36.54	V	-65.04	12.61	7.73	-60.16	-13.00	-47.16
5550.60	---	V		13.23	9.68		-13.00	
7400.80	---	V		11.50	11.28		-13.00	
9251.00	---	V		11.92	13.10		-13.00	
11101.20	---	V		11.66	14.33		-13.00	
12951.40	---	V		13.63	15.98		-13.00	
14801.60	---	V		12.76	17.27		-13.00	
16651.80	---	V		15.92	19.04		-13.00	
18502.00	---	V		18.75	21.21		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1850.20MHz	Test By:	Sky
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	48.19	H	-51.89	-7.79	1.39	-61.06	-13.00	-48.06
256.98	44.43	H	-56.29	-7.89	1.99	-66.17	-13.00	-53.17
397.63	47.53	H	-48.85	-7.66	2.42	-58.92	-13.00	-45.92
431.58	42.24	H	-53.51	-7.69	2.51	-63.70	-13.00	-50.70
450.98	40.67	H	-54.70	-7.70	2.57	-64.97	-13.00	-51.97
531.49	39.99	H	-52.87	-7.75	2.74	-63.35	-13.00	-50.35
1850.00	73.00	H	-33.89	9.90	5.41	-29.40	-13.00	-16.40
3700.40	34.31	H	-67.05	12.61	7.73	-62.17	-13.00	-49.17
5550.60	---	H		13.23	9.68		-13.00	
7400.80	---	H		11.50	11.28		-13.00	
9251.00	---	H		11.92	13.10		-13.00	
11101.20	---	H		11.66	14.33		-13.00	
12951.40	---	H		13.63	15.98		-13.00	
14801.60	---	H		12.76	17.27		-13.00	
16651.80	---	H		15.92	19.04		-13.00	
18502.00	---	H		18.75	21.21		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

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)
133.79	51.79	V	-47.79	-7.79	1.39	-56.97	-13.00	-43.97
363.68	46.64	V	-50.79	-7.65	2.46	-60.89	-13.00	-47.89
400.54	43.63	V	-52.41	-7.66	2.41	-62.49	-13.00	-49.49
460.68	41.89	V	-52.73	-7.70	2.60	-63.03	-13.00	-50.03
533.43	45.41	V	-48.16	-7.75	2.74	-58.64	-13.00	-45.64
667.29	38.89	V	-51.39	-7.83	3.11	-62.33	-13.00	-49.33
3760.00	38.33	V	-62.97	12.60	7.82	-58.19	-13.00	-45.19
5640.00	---	V		13.36	9.73		-13.00	
7520.00	---	V		11.45	11.33		-13.00	
9400.00	---	V		11.93	13.15		-13.00	
11280.00	---	V		11.92	14.56		-13.00	
13160.00	---	V		13.33	16.11		-13.00	
15040.00	---	V		13.76	17.57		-13.00	
16920.00	---	V		15.27	19.66		-13.00	
18800.00	---	V		18.68	21.34		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Hor

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)
133.79	48.14	H	-51.94	-7.79	1.39	-61.11	-13.00	-48.11
261.83	45.31	H	-55.28	-7.90	1.99	-65.17	-13.00	-52.17
400.54	46.88	H	-49.45	-7.66	2.41	-59.52	-13.00	-46.52
431.58	42.23	H	-53.52	-7.69	2.51	-63.71	-13.00	-50.71
450.98	40.48	H	-54.89	-7.70	2.57	-65.16	-13.00	-52.16
531.49	40.00	H	-52.86	-7.75	2.74	-63.34	-13.00	-50.34
3760.00	38.28	H	-62.83	12.60	7.82	-58.04	-13.00	-45.04
5640.00	---	H		13.36	9.73		-13.00	
7520.00	---	H		11.45	11.33		-13.00	
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH High H Mode
 Fundamental Frequency : 1909.8 MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
130.88	53.25	V	-46.69	-7.78	1.37	-55.85	-13.00	-42.85
397.63	44.24	V	-51.91	-7.66	2.42	-61.98	-13.00	-48.98
468.44	40.97	V	-53.65	-7.71	2.62	-63.98	-13.00	-50.98
533.43	45.69	V	-47.88	-7.75	2.74	-58.36	-13.00	-45.36
599.39	37.99	V	-52.53	-7.79	2.94	-63.26	-13.00	-50.26
662.44	39.21	V	-51.11	-7.82	3.08	-62.02	-13.00	-49.02
1910.00	64.77	V	-42.17	10.08	5.51	-37.60	-13.00	-24.60
3981.60	38.65	V	-61.63	12.60	8.17	-57.21	-13.00	-44.21
5972.40	---	V		13.86	9.91		-13.00	
7963.20	---	V		11.27	11.88		-13.00	
9954.00	---	V		12.08	13.43		-13.00	
11944.80	---	V		13.08	15.21		-13.00	
13935.60	---	V		11.82	16.86		-13.00	
15926.40	---	V		17.08	18.33		-13.00	
17917.20	---	V		9.63	20.12		-13.00	
19908.00	---	V		18.88	20.85		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1909.8 MHz	Test By:	Sky
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	48.15	H	-51.93	-7.79	1.39	-61.10	-13.00	-48.10
237.58	51.22	H	-49.90	-7.88	1.88	-59.66	-13.00	-46.66
259.89	45.43	H	-55.21	-7.90	1.99	-65.10	-13.00	-52.10
400.54	47.42	H	-48.91	-7.66	2.41	-58.98	-13.00	-45.98
431.58	42.00	H	-53.75	-7.69	2.51	-63.94	-13.00	-50.94
468.44	39.91	H	-54.93	-7.71	2.62	-65.26	-13.00	-52.26
1910.00	67.61	H	-39.24	10.08	5.51	-34.68	-13.00	-21.68
3981.60	35.37	H	-64.81	12.60	8.17	-60.38	-13.00	-47.38
5972.40	---	H		13.86	9.91		-13.00	
7963.20	---	H		11.27	11.88		-13.00	
9954.00	---	H		12.08	13.43		-13.00	
11944.80	---	H		13.08	15.21		-13.00	
13935.60	---	H		11.82	16.86		-13.00	
15926.40	---	H		17.08	18.33		-13.00	
17917.20	---	H		9.63	20.12		-13.00	
19908.00	---	H		18.88	20.85		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode : TX CH Low H Mode
 Fundamental Frequency : 1852.40MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	45.49	V	-54.09	-7.79	1.39	-63.27	-13.00	-50.27
397.63	46.60	V	-49.55	-7.66	2.42	-59.62	-13.00	-46.62
460.68	40.11	V	-54.51	-7.70	2.60	-64.81	-13.00	-51.81
533.43	46.18	V	-47.39	-7.75	2.74	-57.87	-13.00	-44.87
601.33	37.91	V	-52.58	-7.79	2.94	-63.31	-13.00	-50.31
662.44	39.81	V	-50.51	-7.82	3.08	-61.42	-13.00	-48.42
1850.00	65.65	V	-41.31	9.90	5.41	-36.82	-13.00	-23.82
3704.80	35.33	V	-66.23	12.61	7.73	-61.36	-13.00	-48.36
5557.20	---	V		13.24	9.69		-13.00	
7409.60	---	V		11.49	11.28		-13.00	
9262.00	---	V		11.92	13.10		-13.00	
11114.40	---	V		11.68	14.35		-13.00	
12966.80	---	V		13.62	16.00		-13.00	
14819.20	---	V		12.83	17.30		-13.00	
16671.60	---	V		15.87	19.09		-13.00	
18524.00	---	V		18.74	21.22		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1852.40MHz	Test By:	Sky
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
64.92	42.46	H	-69.28	-0.77	0.98	-71.02	-13.00	-58.02
133.79	44.52	H	-55.56	-7.79	1.39	-64.73	-13.00	-51.73
400.54	44.05	H	-52.28	-7.66	2.41	-62.35	-13.00	-49.35
431.58	41.20	H	-54.55	-7.69	2.51	-64.74	-13.00	-51.74
533.43	40.08	H	-52.72	-7.75	2.74	-63.20	-13.00	-50.20
667.29	37.29	H	-52.83	-7.83	3.11	-63.76	-13.00	-50.76
1850.00	69.77	H	-37.12	9.90	5.41	-32.63	-13.00	-19.63
3704.80	36.46	H	-64.88	12.61	7.73	-60.01	-13.00	-47.01
5557.20	---	H		13.24	9.69		-13.00	
7409.60	---	H		11.49	11.28		-13.00	
9262.00	---	H		11.92	13.10		-13.00	
11114.40	---	H		11.68	14.35		-13.00	
12966.80	---	H		13.62	16.00		-13.00	
14819.20	---	H		12.83	17.30		-13.00	
16671.60	---	H		15.87	19.09		-13.00	
18524.00	---	H		18.74	21.22		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	44.31	V	-55.27	-7.79	1.39	-64.45	-13.00	-51.45
397.63	46.83	V	-49.32	-7.66	2.42	-59.39	-13.00	-46.39
468.44	39.75	V	-54.87	-7.71	2.62	-65.20	-13.00	-52.20
499.48	39.77	V	-54.84	-7.72	2.73	-65.29	-13.00	-52.29
533.43	45.71	V	-47.86	-7.75	2.74	-58.34	-13.00	-45.34
662.44	38.95	V	-51.37	-7.82	3.08	-62.28	-13.00	-49.28
3760.00	34.50	V	-66.80	12.60	7.82	-62.02	-13.00	-49.02
5640.00	---	V		13.36	9.73		-13.00	
7520.00	---	V		11.45	11.33		-13.00	
9400.00	---	V		11.93	13.15		-13.00	
11280.00	---	V		11.92	14.56		-13.00	
13160.00	---	V		13.33	16.11		-13.00	
15040.00	---	V		13.76	17.57		-13.00	
16920.00	---	V		15.27	19.66		-13.00	
18800.00	---	V		18.68	21.34		-13.00	

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

Remark :

- The emission behaviors belong to narrowband spurious emission.
- Remark"---" means that the emission level is too low to be measured
- The result basic equation calculation is as follows:
- ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1880MHz	Test By:	Sky
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)
72.68	44.25	H	-68.08	-1.45	1.03	-70.56	-13.00	-57.56
133.79	44.08	H	-56.00	-7.79	1.39	-65.17	-13.00	-52.17
366.59	40.15	H	-56.74	-7.65	2.46	-66.85	-13.00	-53.85
400.54	44.20	H	-52.13	-7.66	2.41	-62.20	-13.00	-49.20
468.44	39.87	H	-54.97	-7.71	2.62	-65.30	-13.00	-52.30
531.49	39.34	H	-53.52	-7.75	2.74	-64.00	-13.00	-51.00
3760.00	36.28	H	-64.83	12.60	7.82	-60.04	-13.00	-47.04
5640.00	---	H		13.36	9.73		-13.00	
7520.00	---	H		11.45	11.33		-13.00	
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1907.6 MHz	Test By:	Sky
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	45.82	V	-53.76	-7.79	1.39	-62.94	-13.00	-49.94
400.54	46.54	V	-49.50	-7.66	2.41	-59.58	-13.00	-46.58
533.43	45.40	V	-48.17	-7.75	2.74	-58.65	-13.00	-45.65
667.29	40.66	V	-49.62	-7.83	3.11	-60.56	-13.00	-47.56
696.39	38.08	V	-51.95	-7.86	3.30	-63.11	-13.00	-50.11
1910.00	64.13	V	-42.81	10.08	5.51	-38.24	-13.00	-25.24
3815.20	36.51	V	-64.54	12.60	7.91	-59.85	-13.00	-46.85
5722.80	---	V		13.48	9.78		-13.00	
7630.40	---	V		11.41	11.47		-13.00	
9538.00	---	V		11.95	13.21		-13.00	
11445.60	---	V		12.15	14.77		-13.00	
13353.20	---	V		13.00	16.21		-13.00	
15260.80	---	V		14.91	17.86		-13.00	
17168.40	---	V		14.53	19.76		-13.00	
19076.00	---	V		18.65	21.37		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1907.6 MHz	Test By:	Sky
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	43.88	H	-56.20	-7.79	1.39	-65.37	-13.00	-52.37
400.54	43.59	H	-52.74	-7.66	2.41	-62.81	-13.00	-49.81
531.49	38.13	H	-54.73	-7.75	2.74	-65.21	-13.00	-52.21
662.44	35.94	H	-54.24	-7.82	3.08	-65.14	-13.00	-52.14
1910.00	65.99	H	-40.86	10.08	5.51	-36.30	-13.00	-23.30
3815.20	35.00	H	-65.88	12.60	7.91	-61.18	-13.00	-48.18
5722.80	---	H		13.48	9.78		-13.00	
7630.40	---	H		11.41	11.47		-13.00	
9538.00	---	H		11.95	13.21		-13.00	
11445.60	---	H		12.15	14.77		-13.00	
13353.20	---	H		13.00	16.21		-13.00	
15260.80	---	H		14.91	17.86		-13.00	
17168.40	---	H		14.53	19.76		-13.00	
19076.00	---	H		18.65	21.37		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 826.4MHz	Test By:	Sky
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
128.94	53.85	V	-46.33	-7.78	1.36	-55.47	-13.00	-42.47
400.54	46.08	V	-49.96	-7.66	2.41	-60.04	-13.00	-47.04
470.38	42.41	V	-52.21	-7.71	2.63	-62.54	-13.00	-49.54
533.43	45.72	V	-47.85	-7.75	2.74	-58.33	-13.00	-45.33
604.24	38.53	V	-51.95	-7.79	2.95	-62.69	-13.00	-49.69
662.44	38.44	V	-51.88	-7.82	3.08	-62.79	-13.00	-49.79
825.00	67.43	V	-19.88	-7.88	3.65	-31.40	-13.00	-18.40
1652.80	34.17	V	-72.87	9.30	5.06	-68.63	-13.00	-55.63
2479.20	---	V		10.07	6.31		-13.00	
3305.60	---	V		12.19	7.26		-13.00	
4132.00	---	V		12.62	8.34		-13.00	
4958.40	---	V		12.65	9.20		-13.00	
5784.80	---	V		13.58	9.81		-13.00	
6611.20	---	V		12.03	10.63		-13.00	
7437.60	---	V		11.48	11.29		-13.00	
8264.00	---	V		11.50	12.29		-13.00	
Measurement uncertainty	30MHz - 80MHz: 5.04dB							
	80MHz - 1000MHz: 3.76dB							
	1GHz - 13GHz: 4.45dB							

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode : TX CH Low H Mode
 Fundamental Frequency : 826.4MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	48.04	H	-52.04	-7.79	1.39	-61.21	-13.00	-48.21
259.89	44.44	H	-56.20	-7.90	1.99	-66.09	-13.00	-53.09
400.54	45.69	H	-50.64	-7.66	2.41	-60.71	-13.00	-47.71
453.89	41.32	H	-53.96	-7.70	2.58	-64.24	-13.00	-51.24
533.43	41.43	H	-51.37	-7.75	2.74	-61.85	-13.00	-48.85
662.44	35.57	H	-54.61	-7.82	3.08	-65.51	-13.00	-52.51
825.00	72.94	H	-14.70	-7.88	3.65	-26.22	-13.00	-13.22
1652.80	36.64	H	-70.37	9.30	5.06	-66.13	-13.00	-53.13
2479.20	---	H		10.07	6.31		-13.00	
3305.60	---	H		12.19	7.26		-13.00	
4132.00	---	H		12.62	8.34		-13.00	
4958.40	---	H		12.65	9.20		-13.00	
5784.80	---	H		13.58	9.81		-13.00	
6611.20	---	H		12.03	10.63		-13.00	
7437.60	---	H		11.48	11.29		-13.00	
8264.00	---	H		11.50	12.29		-13.00	
Measurement uncertainty	30MHz - 80MHz: 5.04dB							
	80MHz - 1000MHz: 3.76dB							
	1GHz - 13GHz: 4.45dB							

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 836.0MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

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)
128.94	53.65	V	-46.53	-7.78	1.36	-55.67	-13.00	-42.67
193.93	45.93	V	-55.62	-7.84	1.55	-65.01	-13.00	-52.01
400.54	46.97	V	-49.07	-7.66	2.41	-59.15	-13.00	-46.15
470.38	42.93	V	-51.69	-7.71	2.63	-62.02	-13.00	-49.02
531.49	45.84	V	-47.79	-7.75	2.74	-58.27	-13.00	-45.27
667.29	36.92	V	-53.36	-7.83	3.11	-64.30	-13.00	-51.30
1672.00	35.78	V	-71.25	9.36	5.10	-66.99	-13.00	-53.99
2508.00	---	V		10.08	6.35		-13.00	
3344.00	---	V		12.27	7.29		-13.00	
4180.00	---	V		12.62	8.39		-13.00	
5016.00	---	V		12.67	9.25		-13.00	
5852.00	---	V		13.68	9.84		-13.00	
6688.00	---	V		11.96	10.73		-13.00	
7524.00	---	V		11.45	11.34		-13.00	
8360.00	---	V		11.58	12.42		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 836.0MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Hor

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)
133.79	47.95	H	-52.13	-7.79	1.39	-61.30	-13.00	-48.30
264.74	46.23	H	-54.29	-7.90	1.99	-64.17	-13.00	-51.17
400.54	45.42	H	-50.91	-7.66	2.41	-60.98	-13.00	-47.98
431.58	40.71	H	-55.04	-7.69	2.51	-65.23	-13.00	-52.23
458.74	39.82	H	-55.32	-7.70	2.59	-65.61	-13.00	-52.61
531.49	40.96	H	-51.90	-7.75	2.74	-62.38	-13.00	-49.38
1672.00	36.68	H	-70.32	9.36	5.10	-66.05	-13.00	-53.05
2508.00	---	H		10.08	6.35		-13.00	
3344.00	---	H		12.27	7.29		-13.00	
4180.00	---	H		12.62	8.39		-13.00	
5016.00	---	H		12.67	9.25		-13.00	
5852.00	---	H		13.68	9.84		-13.00	
6688.00	---	H		11.96	10.73		-13.00	
7524.00	---	H		11.45	11.34		-13.00	
8360.00	---	H		11.58	12.42		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 846.6 MHz	Test By:	Sky
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
128.94	54.89	V	-45.29	-7.78	1.36	-54.43	-13.00	-41.43
193.93	46.04	V	-55.51	-7.84	1.55	-64.90	-13.00	-51.90
264.74	42.03	V	-58.34	-7.90	1.99	-68.22	-13.00	-55.22
400.54	46.48	V	-49.56	-7.66	2.41	-59.64	-13.00	-46.64
468.44	41.55	V	-53.07	-7.71	2.62	-63.40	-13.00	-50.40
533.43	45.03	V	-48.54	-7.75	2.74	-59.02	-13.00	-46.02
850.00	66.80	V	-19.91	-7.88	3.75	-31.54	-13.00	-18.54
1693.20	36.08	V	-70.94	9.42	5.13	-66.65	-13.00	-53.65
2539.80	---	V		10.18	6.39		-13.00	
3386.40	---	V		12.36	7.32		-13.00	
4233.00	---	V		12.63	8.45		-13.00	
5079.60	---	V		12.73	9.31		-13.00	
5926.20	---	V		13.79	9.88		-13.00	
6772.80	---	V		11.87	10.84		-13.00	
7619.40	---	V		11.41	11.46		-13.00	
8466.00	---	V		11.68	12.56		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 846.60 MHz	Test By:	Sky
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)
128.94	47.43	H	-53.10	-7.78	1.36	-62.24	-13.00	-49.24
266.68	44.35	H	-56.12	-7.90	1.99	-66.01	-13.00	-53.01
400.54	46.09	H	-50.24	-7.66	2.41	-60.31	-13.00	-47.31
431.58	41.34	H	-54.41	-7.69	2.51	-64.60	-13.00	-51.60
453.89	41.06	H	-54.22	-7.70	2.58	-64.50	-13.00	-51.50
533.43	39.94	H	-52.86	-7.75	2.74	-63.34	-13.00	-50.34
850.00	70.83	H	-16.16	-7.88	3.75	-27.79	-13.00	-14.79
1693.20	41.51	H	-65.47	9.42	5.13	-61.18	-13.00	-48.18
2539.80	---	H		10.18	6.39		-13.00	
3386.40	---	H		12.36	7.32		-13.00	
4233.00	---	H		12.63	8.45		-13.00	
5079.60	---	H		12.73	9.31		-13.00	
5926.20	---	H		13.79	9.88		-13.00	
6772.80	---	H		11.87	10.84		-13.00	
7619.40	---	H		11.41	11.46		-13.00	
8466.00	---	H		11.68	12.56		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND II Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1852.40MHz	Test By:	Sky
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	44.88	V	-54.70	-7.79	1.39	-63.88	-13.00	-50.88
250.19	41.48	V	-59.22	-7.89	1.99	-69.09	-13.00	-56.09
400.54	46.18	V	-49.86	-7.66	2.41	-59.94	-13.00	-46.94
533.43	45.06	V	-48.51	-7.75	2.74	-58.99	-13.00	-45.99
596.48	40.33	V	-50.34	-7.79	2.93	-61.06	-13.00	-48.06
662.44	40.39	V	-49.93	-7.82	3.08	-60.84	-13.00	-47.84
1850.00	65.74	V	-41.22	9.90	5.41	-36.73	-13.00	-23.73
3704.80	34.91	V	-66.65	12.61	7.73	-61.78	-13.00	-48.78
5557.20	---	V		13.24	9.69		-13.00	
7409.60	---	V		11.49	11.28		-13.00	
9262.00	---	V		11.92	13.10		-13.00	
11114.40	---	V		11.68	14.35		-13.00	
12966.80	---	V		13.62	16.00		-13.00	
14819.20	---	V		12.83	17.30		-13.00	
16671.60	---	V		15.87	19.09		-13.00	
18524.00	---	V		18.74	21.22		-13.00	

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

Remark :

- 1 The emission behaviors belong 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)

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Radiated Spurious Emission Measurement Result: HSUPA BAND II Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1852.40MHz	Test By:	Sky
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
64.92	44.98	H	-66.76	-0.77	0.98	-68.50	-13.00	-55.50
133.79	43.55	H	-56.53	-7.79	1.39	-65.70	-13.00	-52.70
397.63	43.40	H	-52.98	-7.66	2.42	-63.05	-13.00	-50.05
431.58	40.04	H	-55.71	-7.69	2.51	-65.90	-13.00	-52.90
468.44	39.06	H	-55.78	-7.71	2.62	-66.11	-13.00	-53.11
662.44	37.48	H	-52.70	-7.82	3.08	-63.60	-13.00	-50.60
1850.00	72.15	H	-34.74	9.90	5.41	-30.25	-13.00	-17.25
3704.80	33.90	H	-67.44	12.61	7.73	-62.57	-13.00	-49.57
5557.20	---	H		13.24	9.69		-13.00	
7409.60	---	H		11.49	11.28		-13.00	
9262.00	---	H		11.92	13.10		-13.00	
11114.40	---	H		11.68	14.35		-13.00	
12966.80	---	H		13.62	16.00		-13.00	
14819.20	---	H		12.83	17.30		-13.00	
16671.60	---	H		15.87	19.09		-13.00	
18524.00	---	H		18.74	21.22		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND II Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	46.83	V	-52.75	-7.79	1.39	-61.93	-13.00	-48.93
400.54	44.67	V	-51.37	-7.66	2.41	-61.45	-13.00	-48.45
497.54	41.44	V	-53.17	-7.72	2.72	-63.61	-13.00	-50.61
528.58	45.32	V	-48.40	-7.74	2.74	-58.88	-13.00	-45.88
594.54	37.87	V	-52.90	-7.79	2.92	-63.61	-13.00	-50.61
667.29	39.62	V	-50.66	-7.83	3.11	-61.60	-13.00	-48.60
3760.00	33.87	V	-67.43	12.60	7.82	-62.65	-13.00	-49.65
5640.00	---	V		13.36	9.73		-13.00	
7520.00	---	V		11.45	11.33		-13.00	
9400.00	---	V		11.93	13.15		-13.00	
11280.00	---	V		11.92	14.56		-13.00	
13160.00	---	V		13.33	16.11		-13.00	
15040.00	---	V		13.76	17.57		-13.00	
16920.00	---	V		15.27	19.66		-13.00	
18800.00	---	V		18.68	21.34		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND II Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Hor

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)
65.89	48.17	H	-63.68	-0.83	0.98	-65.49	-13.00	-52.49
133.79	43.52	H	-56.56	-7.79	1.39	-65.73	-13.00	-52.73
400.54	42.69	H	-53.64	-7.66	2.41	-63.71	-13.00	-50.71
431.58	40.76	H	-54.99	-7.69	2.51	-65.18	-13.00	-52.18
533.43	39.78	H	-53.02	-7.75	2.74	-63.50	-13.00	-50.50
662.44	37.02	H	-53.16	-7.82	3.08	-64.06	-13.00	-51.06
3760.00	34.27	H	-66.84	12.60	7.82	-62.05	-13.00	-49.05
5640.00	---	H		13.36	9.73		-13.00	
7520.00	---	H		11.45	11.33		-13.00	
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND II Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1907.6 MHz	Test By:	Sky
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
400.54	45.25	V	-50.79	-7.66	2.41	-60.87	-13.00	-47.87
531.49	45.07	V	-48.56	-7.75	2.74	-59.04	-13.00	-46.04
601.33	38.64	V	-51.85	-7.79	2.94	-62.58	-13.00	-49.58
664.38	39.46	V	-50.85	-7.82	3.09	-61.76	-13.00	-48.76
1910.00	64.75	V	-42.19	10.08	5.51	-37.62	-13.00	-24.62
3815.20	34.15	V	-66.90	12.60	7.91	-62.21	-13.00	-49.21
5722.80	---	V		13.48	9.78		-13.00	
7630.40	---	V		11.41	11.47		-13.00	
9538.00	---	V		11.95	13.21		-13.00	
11445.60	---	V		12.15	14.77		-13.00	
13353.20	---	V		13.00	16.21		-13.00	
15260.80	---	V		14.91	17.86		-13.00	
17168.40	---	V		14.53	19.76		-13.00	
19076.00	---	V		18.65	21.37		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND II Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 1907.6 MHz	Test By:	Sky
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	44.07	H	-56.01	-7.79	1.39	-65.18	-13.00	-52.18
400.54	44.00	H	-52.33	-7.66	2.41	-62.40	-13.00	-49.40
533.43	39.39	H	-53.41	-7.75	2.74	-63.89	-13.00	-50.89
664.38	36.96	H	-53.19	-7.82	3.09	-64.11	-13.00	-51.11
1910.00	69.35	H	-37.50	10.08	5.51	-32.94	-13.00	-19.94
3815.20	35.10	H	-65.78	12.60	7.91	-61.08	-13.00	-48.08
5722.80	---	H		13.48	9.78		-13.00	
7630.40	---	H		11.41	11.47		-13.00	
9538.00	---	H		11.95	13.21		-13.00	
11445.60	---	H		12.15	14.77		-13.00	
13353.20	---	H		13.00	16.21		-13.00	
15260.80	---	H		14.91	17.86		-13.00	
17168.40	---	H		14.53	19.76		-13.00	
19076.00	---	H		18.65	21.37		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND V Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 826.4MHz	Test By:	Sky
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
128.94	52.59	V	-47.59	-7.78	1.36	-56.73	-13.00	-43.73
264.74	43.67	V	-56.70	-7.90	1.99	-66.58	-13.00	-53.58
400.54	46.67	V	-49.37	-7.66	2.41	-59.45	-13.00	-46.45
470.38	41.82	V	-52.80	-7.71	2.63	-63.13	-13.00	-50.13
533.43	45.76	V	-47.81	-7.75	2.74	-58.29	-13.00	-45.29
601.33	38.48	V	-52.01	-7.79	2.94	-62.74	-13.00	-49.74
825.00	66.38	V	-20.93	-7.88	3.65	-32.45	-13.00	-19.45
1652.80	35.35	V	-71.69	9.30	5.06	-67.45	-13.00	-54.45
2479.20	---	V		10.07	6.31		-13.00	
3305.60	---	V		12.19	7.26		-13.00	
4132.00	---	V		12.62	8.34		-13.00	
4958.40	---	V		12.65	9.20		-13.00	
5784.80	---	V		13.58	9.81		-13.00	
6611.20	---	V		12.03	10.63		-13.00	
7437.60	---	V		11.48	11.29		-13.00	
8264.00	---	V		11.50	12.29		-13.00	
Measurement uncertainty	30MHz - 80MHz: 5.04dB							
	80MHz - 1000MHz: 3.76dB							
	1GHz - 13GHz: 4.45dB							

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND V Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 826.4MHz	Test By:	Sky
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
128.94	47.87	H	-52.66	-7.78	1.36	-61.80	-13.00	-48.80
264.74	44.92	H	-55.60	-7.90	1.99	-65.48	-13.00	-52.48
400.54	45.53	H	-50.80	-7.66	2.41	-60.87	-13.00	-47.87
431.58	41.13	H	-54.62	-7.69	2.51	-64.81	-13.00	-51.81
450.98	41.00	H	-54.37	-7.70	2.57	-64.64	-13.00	-51.64
531.49	40.56	H	-52.30	-7.75	2.74	-62.78	-13.00	-49.78
825.00	73.44	H	-14.20	-7.88	3.65	-25.72	-13.00	-12.72
1652.80	41.60	H	-65.41	9.30	5.06	-61.17	-13.00	-48.17
2479.20	---	H		10.07	6.31		-13.00	
3305.60	---	H		12.19	7.26		-13.00	
4132.00	---	H		12.62	8.34		-13.00	
4958.40	---	H		12.65	9.20		-13.00	
5784.80	---	H		13.58	9.81		-13.00	
6611.20	---	H		12.03	10.63		-13.00	
7437.60	---	H		11.48	11.29		-13.00	
8264.00	---	H		11.50	12.29		-13.00	
Measurement uncertainty	30MHz - 80MHz: 5.04dB							
	80MHz - 1000MHz: 3.76dB							
	1GHz - 13GHz: 4.45dB							

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND V Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 836.0MHz	Test By:	Sky
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)
128.94	54.66	V	-45.52	-7.78	1.36	-54.66	-13.00	-41.66
193.93	46.43	V	-55.12	-7.84	1.55	-64.51	-13.00	-51.51
400.54	45.67	V	-50.37	-7.66	2.41	-60.45	-13.00	-47.45
468.44	40.57	V	-54.05	-7.71	2.62	-64.38	-13.00	-51.38
533.43	45.49	V	-48.08	-7.75	2.74	-58.56	-13.00	-45.56
667.29	38.61	V	-51.67	-7.83	3.11	-62.61	-13.00	-49.61
1672.00	34.89	V	-72.14	9.36	5.10	-67.88	-13.00	-54.88
2508.00	---	V		10.08	6.35		-13.00	
3344.00	---	V		12.27	7.29		-13.00	
4180.00	---	V		12.62	8.39		-13.00	
5016.00	---	V		12.67	9.25		-13.00	
5852.00	---	V		13.68	9.84		-13.00	
6688.00	---	V		11.96	10.73		-13.00	
7524.00	---	V		11.45	11.34		-13.00	
8360.00	---	V		11.58	12.42		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND V Mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 836.0MHz
 Temperature : 25
 Humidity : 65%

Test Date: May 26, 2009
 Test By: Sky
 Pol: Hor

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)
133.79	45.82	H	-54.26	-7.79	1.39	-63.43	-13.00	-50.43
264.74	49.09	H	-51.43	-7.90	1.99	-61.31	-13.00	-48.31
400.54	45.63	H	-50.70	-7.66	2.41	-60.77	-13.00	-47.77
431.58	41.44	H	-54.31	-7.69	2.51	-64.50	-13.00	-51.50
458.74	39.98	H	-55.16	-7.70	2.59	-65.45	-13.00	-52.45
531.49	39.93	H	-52.93	-7.75	2.74	-63.41	-13.00	-50.41
1672.00	36.51	H	-70.49	9.36	5.10	-66.22	-13.00	-53.22
2508.00	---	H		10.08	6.35		-13.00	
3344.00	---	H		12.27	7.29		-13.00	
4180.00	---	H		12.62	8.39		-13.00	
5016.00	---	H		12.67	9.25		-13.00	
5852.00	---	H		13.68	9.84		-13.00	
6688.00	---	H		11.96	10.73		-13.00	
7524.00	---	H		11.45	11.34		-13.00	
8360.00	---	H		11.58	12.42		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND V Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 846.6 MHz	Test By:	Sky
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)
130.88	53.25	V	-46.69	-7.78	1.37	-55.85	-13.00	-42.85
193.93	47.63	V	-53.92	-7.84	1.55	-63.31	-13.00	-50.31
400.54	46.40	V	-49.64	-7.66	2.41	-59.72	-13.00	-46.72
460.68	41.35	V	-53.27	-7.70	2.60	-63.57	-13.00	-50.57
533.43	45.94	V	-47.63	-7.75	2.74	-58.11	-13.00	-45.11
601.33	37.92	V	-52.57	-7.79	2.94	-63.30	-13.00	-50.30
850.00	64.53	V	-22.18	-7.88	3.75	-33.81	-13.00	-20.81
1693.20	37.08	V	-69.94	9.42	5.13	-65.65	-13.00	-52.65
2539.80	---	V		10.18	6.39		-13.00	
3386.40	---	V		12.36	7.32		-13.00	
4233.00	---	V		12.63	8.45		-13.00	
5079.60	---	V		12.73	9.31		-13.00	
5926.20	---	V		13.79	9.88		-13.00	
6772.80	---	V		11.87	10.84		-13.00	
7619.40	---	V		11.41	11.46		-13.00	
8466.00	---	V		11.68	12.56		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA BAND V Mode

Operation Mode	: TX CH High H Mode	Test Date:	May 26, 2009
Fundamental Frequency	: 846.60 MHz	Test By:	Sky
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
133.79	46.86	H	-53.22	-7.79	1.39	-62.39	-13.00	-49.39
264.74	45.38	H	-55.14	-7.90	1.99	-65.02	-13.00	-52.02
400.54	45.58	H	-50.75	-7.66	2.41	-60.82	-13.00	-47.82
431.58	41.72	H	-54.03	-7.69	2.51	-64.22	-13.00	-51.22
458.74	40.82	H	-54.32	-7.70	2.59	-64.61	-13.00	-51.61
533.43	40.60	H	-52.20	-7.75	2.74	-62.68	-13.00	-49.68
850.00	67.95	H	-19.04	-7.88	3.75	-30.67	-13.00	-17.67
1693.20	40.92	H	-66.06	9.42	5.13	-61.77	-13.00	-48.77
2539.80	---	H		10.18	6.39		-13.00	
3386.40	---	H		12.36	7.32		-13.00	
4233.00	---	H		12.63	8.45		-13.00	
5079.60	---	H		12.73	9.31		-13.00	
5926.20	---	H		13.79	9.88		-13.00	
6772.80	---	H		11.87	10.84		-13.00	
7619.40	---	H		11.41	11.46		-13.00	
8466.00	---	H		11.68	12.56		-13.00	

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

Remark :

- 1 The emission behaviors belong 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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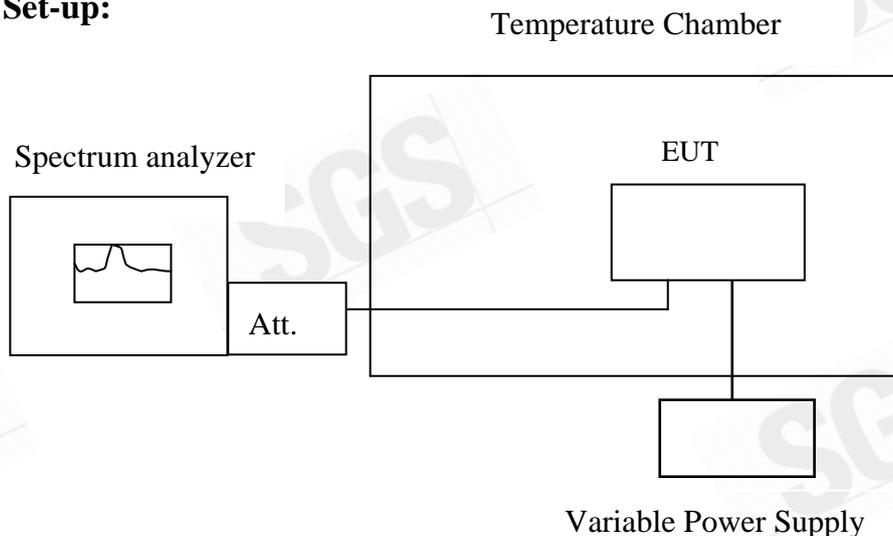
10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

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.
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2008	02/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2009	01/04/2010
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

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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)		
5	-30	836.600008	-3.00	2091
5	-20	836.599991	14.00	2091
5	-10	836.599984	21.00	2091
5	0	836.600012	-7.00	2091
5	10	836.599984	21.00	2091
5	20	836.600005	0.00	2091
5	30	836.599972	33.00	2091
5	40	836.599994	11.00	2091
5	50	836.600001	4.00	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)		
5	-30	1880.000008	-12.00	4700
5	-20	1880.000012	-16.00	4700
5	-10	1879.999942	54.00	4700
5	0	1880.000016	-20.00	4700
5	10	1879.999965	31.00	4700
5	20	1879.999996	0.00	4700
5	30	1879.999984	12.00	4700
5	40	1880.000012	-16.00	4700
5	50	1880.000006	-10.00	4700

Note: The battery is rated 5V dc.

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Reference Frequency: WCDMA BAND II Mid Channel 1880 MHz @ 25				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
5	-30	1879.999994	-12.00	4700
5	-20	1880.000004	-22.00	4700
5	-10	1879.999986	-4.00	4700
5	0	1880.000012	-30.00	4700
5	10	1879.999994	-12.00	4700
5	20	1879.999982	0.00	4700
5	30	1879.999991	-9.00	4700
5	40	1879.999972	10.00	4700
5	50	1879.999981	1.00	4700

Reference Frequency: WCDMA BAND V Mid Channel 836.0 MHz @ 25				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
5	-30	836.599910	81.00	2091
5	-20	836.599982	9.00	2091
5	-10	836.599996	-5.00	2091
5	0	836.599981	10.00	2091
5	10	836.599996	-5.00	2091
5	20	836.599991	0.00	2091
5	30	836.599984	7.00	2091
5	40	836.599991	0.00	2091
5	50	836.599999	-8.00	2091

Note: The battery is rated 5V dc.

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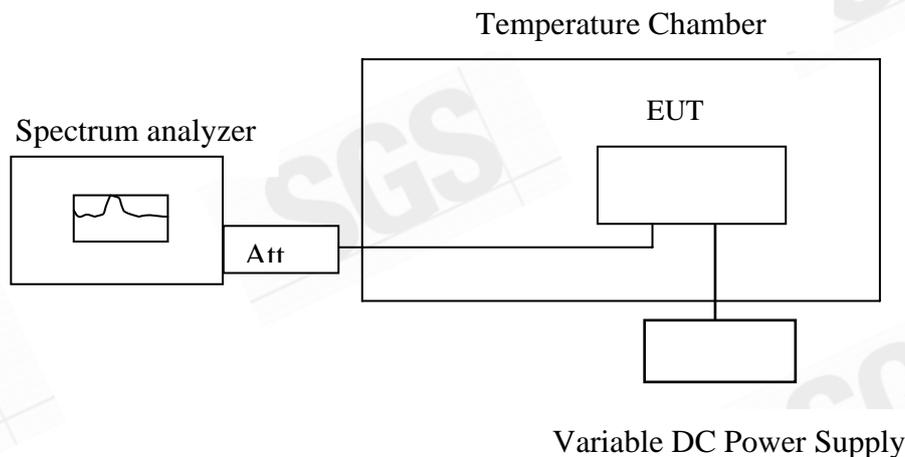
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

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 °C. 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.
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2008	02/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2009	01/04/2010
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

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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)		
5.50	25.00	836.599982	0.00	2091.00
5.00	25.00	836.599993	-11.00	2091.00
4.50	25.00	836.599972	10.00	2091.00
3.3 (End Point)	25.00	836.599984	2.00	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)		
5.5	25	1879.999984	0.00	4700
5.0	25	1879.999991	-7.00	4700
4.5	25	1879.999974	10.00	4700
3.3 (Endpoint)	25	1879.99999	-7.00	4700

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Reference Frequency: WCDMA BAND II Mid Channel 1880 MHz @ 25				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
5.5	25	1879.999992	0.00	4700
5.0	25	1879.999984	8.00	4700
4.5	25	1879.999965	27.00	4700
3.3 (Endpoint)	25	1879.999972	20.00	4700

Reference Frequency: WCDMA BAND V Mid Channel 836.0 MHz @ 25				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
5.50	25.00	836.599991	0.00	2091.00
5.00	25.00	836.599984	7.00	2091.00
4.50	25.00	836.599999	-8.00	2091.00
3.3 (End Point)	25.00	836.599972	19.00	2091.00

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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 adaptor 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.

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12.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009
LISN	Rolf-Heine	NNB-2/16Z	99012	04/28/2009	04/27/2010
LISN	FCC	FCC-LISN-50/250-25 -2-01	04034	04/28/2009	04/27/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009

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.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK			Test Date:	July 23, 2008
Temperature:	25	Humidity:	62 %	Test By:	Jim

Conducted Emission Measurement

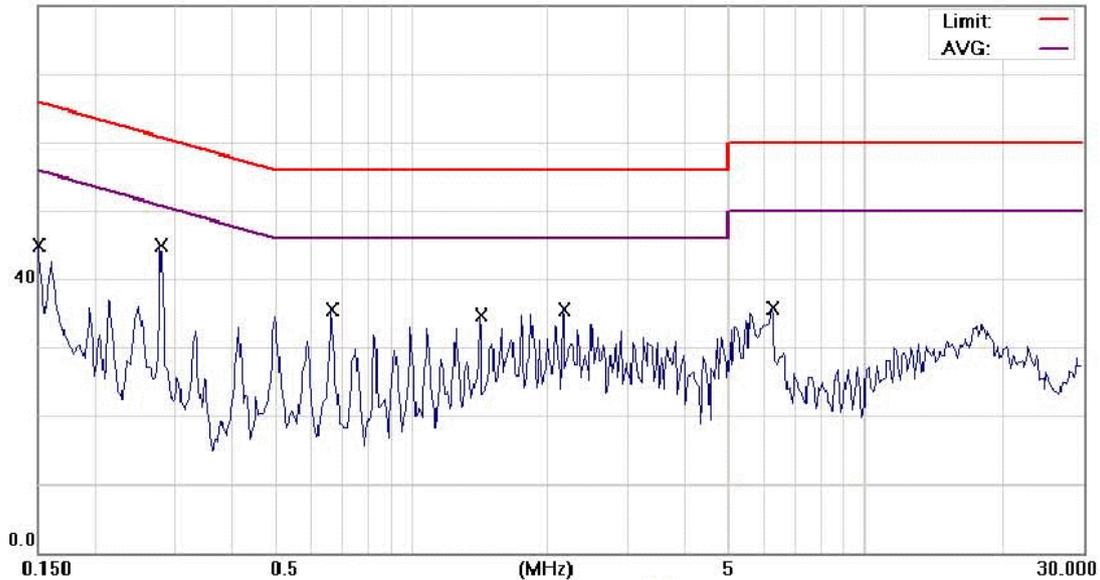
File :T43-2(emc)discrete

Data :#4

Date: 2008/7/23

Time: 上午 10:48:25

80.0 dBuV



Site SGS CONDUCTED #1	Phase: L1	Temperature: 25 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 62 %
EUT: MF636	Distance:	Air Pressure: hpa
M/N: MF636		
Note: GSM 850		

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	44.41	0.41	44.82	66.00	-21.18	QP	
2	*	0.2800	44.68	0.13	44.81	60.82	-16.01	QP	
3		0.6650	35.54	0.05	35.59	56.00	-20.41	QP	
4		1.4150	34.72	0.04	34.76	56.00	-21.24	QP	
5		2.1650	35.42	0.04	35.46	56.00	-20.54	QP	
6		6.2400	35.66	0.08	35.74	60.00	-24.26	QP	

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Conducted Emission Measurement

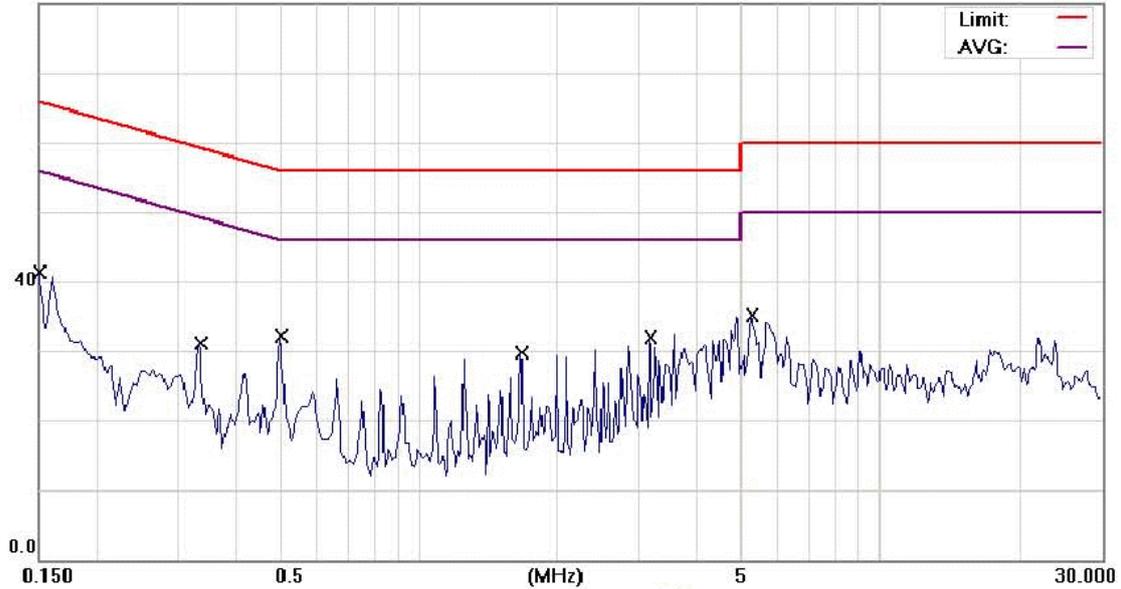
File :T43-2(emc)discrete

Data :#5

Date: 2008/7/23

Time: 上午 10:50:29

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 25 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 62 %

EUT: MF636

Distance:

Air Pressure: hpa

M/N: MF636

Note: GSM 850

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	40.98	0.40	41.38	66.00	-24.62	QP	
2		0.3350	30.93	0.10	31.03	59.33	-28.30	QP	
3	*	0.5000	32.07	0.05	32.12	56.00	-23.88	QP	
4		1.6700	29.60	0.03	29.63	56.00	-26.37	QP	
5		3.1700	31.83	0.04	31.87	56.00	-24.13	QP	
6		5.2600	35.05	0.07	35.12	60.00	-24.88	QP	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 Link	Test Date:	July 23, 2008
Temperature:	25	Humidity:	62 %
		Test By:	Jim

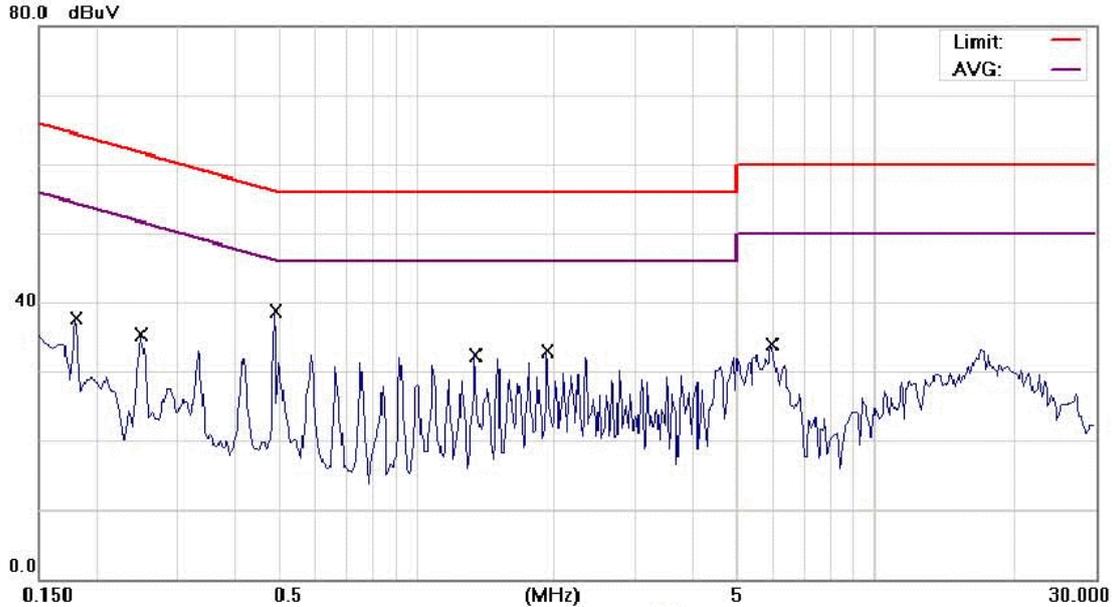
Conducted Emission Measurement

File :T43-2(emc)discrete

Data :#7

Date: 2008/7/23

Time: 上午 10:58:14



Site: SGS CONDUCTED #1	Phase: L1	Temperature: 25 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 62 %
EUT: MF636	Distance:	Air Pressure: hpa
MN: MF636		
Note: GSM 1900		

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1800	37.37	0.26	37.63	64.49	-26.86	QP	
2	0.2500	35.22	0.14	35.36	61.76	-26.40	QP	
3 *	0.4900	38.58	0.06	38.64	56.17	-17.53	QP	
4	1.3400	32.33	0.04	32.37	56.00	-23.63	QP	
5	1.9250	32.86	0.04	32.90	56.00	-23.10	QP	
6	5.9400	33.79	0.08	33.87	60.00	-26.13	QP	

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Conducted Emission Measurement

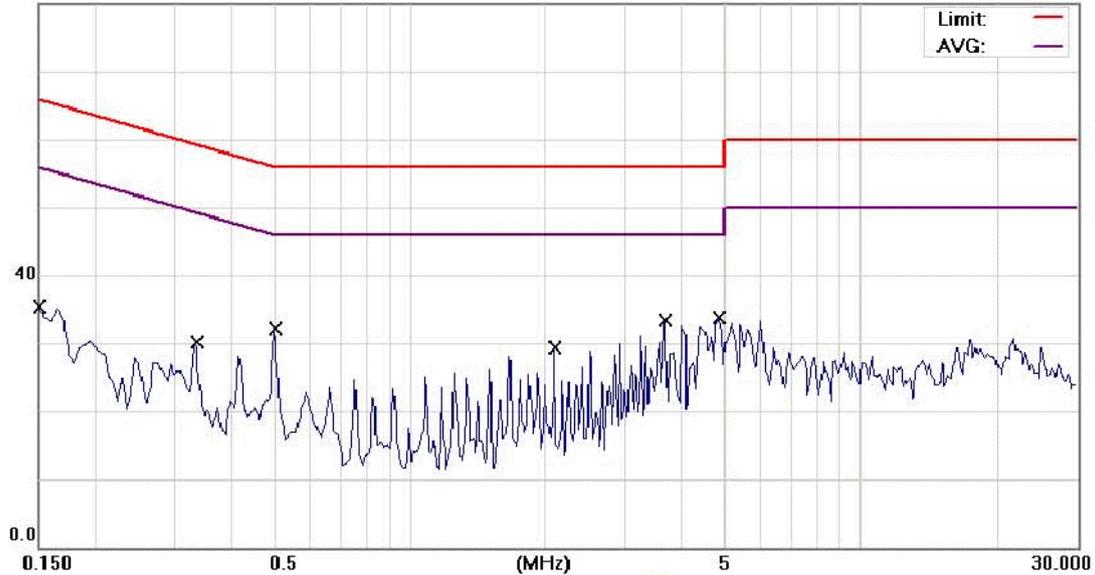
File :T43-2(emc)discrete

Data :#6

Date: 2008/7/23

Time: 上午 10:52:34

80.0 dBuV



Site	SGS CONDUCTED #1	Phase:	N	Temperature:	25 °C
Limit:	CISPR22/11 Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	62 %
EUT:	MF636	Distance:		Air Pressure:	hpa
M/N:	MF636				
Note:	GSM 1900				

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	34.84	0.40	35.24	66.00	-30.76	QP	
2		0.3350	29.97	0.10	30.07	59.33	-29.26	QP	
3		0.5000	32.09	0.05	32.14	56.00	-23.86	QP	
4		2.0900	29.24	0.03	29.27	56.00	-26.73	QP	
5		3.6800	33.23	0.04	33.27	56.00	-22.73	QP	
6	*	4.8500	33.74	0.06	33.80	56.00	-22.20	QP	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	EDGE 850 LINK			Test Date:	July 23, 2008
Temperature:	25	Humidity:	62 %	Test By:	Jim

Conducted Emission Measurement

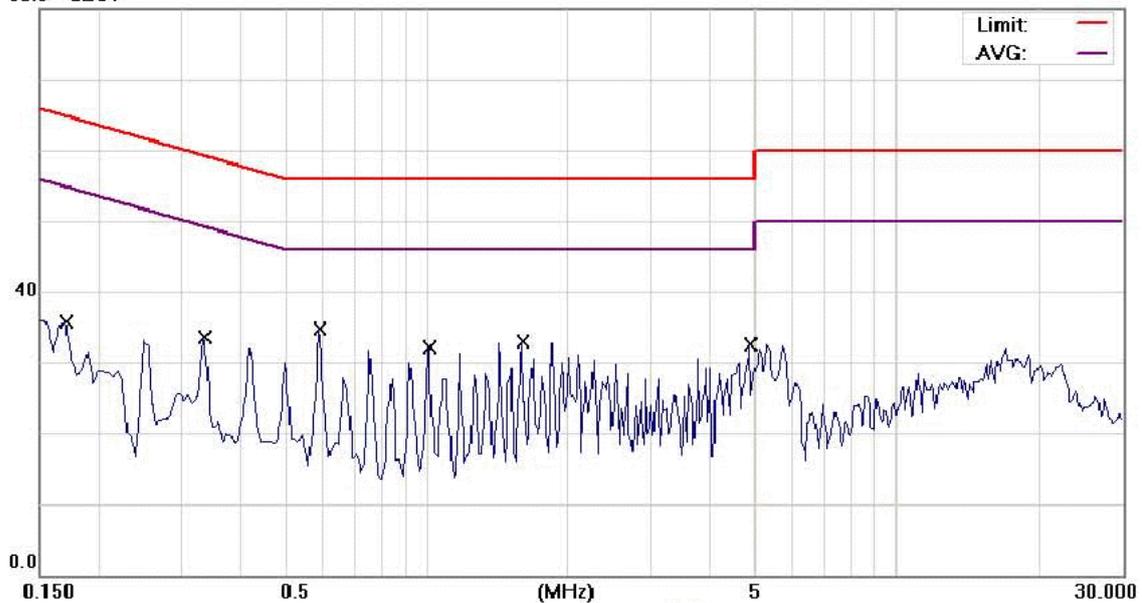
File :T43-2(emc)discrete

Data :#11

Date: 2008/7/23

Time: 上午 11:07:05

80.0 dBuV



Site	SGS CONDUCTED #1	Phase:	L1	Temperature:	25 °C
Limit:	CISPR22/11 Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	62 %
EUT:	MF636	Distance:		Air Pressure:	hpa
M/N:	MF636				
Note:	EDGE 850				

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	35.35	0.31	35.66	64.96	-29.30	QP	
2		0.3350	33.36	0.11	33.47	59.33	-25.86	QP	
3	*	0.5900	34.66	0.06	34.72	56.00	-21.28	QP	
4		1.0100	32.05	0.04	32.09	56.00	-23.91	QP	
5		1.5950	32.84	0.04	32.88	56.00	-23.12	QP	
6		4.8800	32.50	0.05	32.55	56.00	-23.45	QP	

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Conducted Emission Measurement

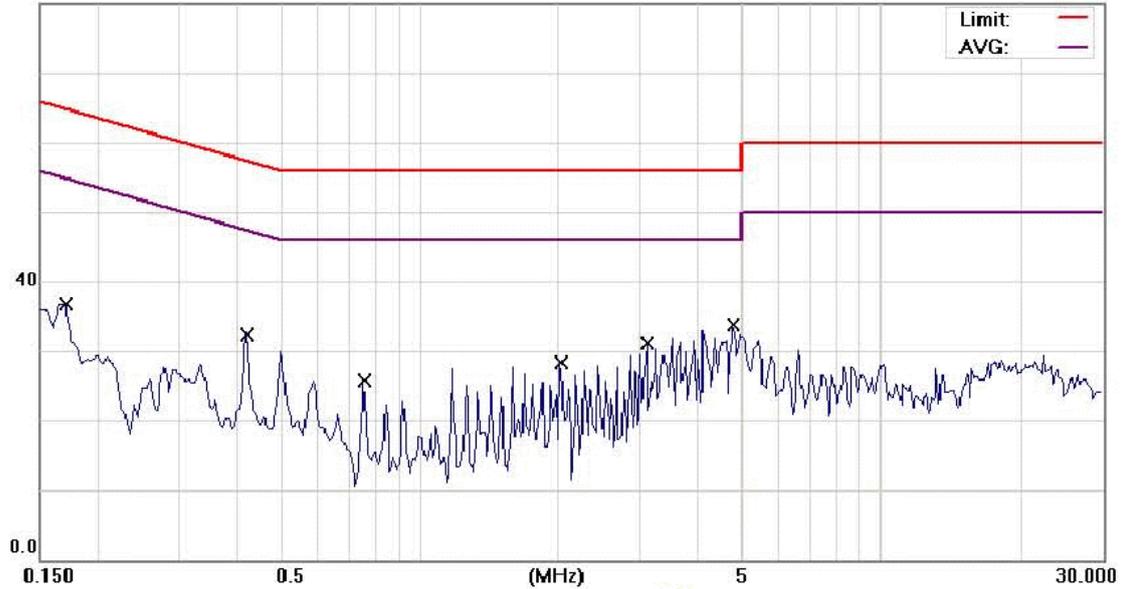
File :T43-2(emc)discrete

Data :#10

Date: 2008/7/23

Time: 上午 11:03:50

80.0 dBuV



Site	SGS CONDUCTED #1	Phase:	N	Temperature:	25 °C
Limit:	CISPR22/11 Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	62 %
EUT:	MF636	Distance:		Air Pressure:	hpa
M/N:	MF636				
Note:	EDGE 850				

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	36.50	0.29	36.79	64.96	-28.17	QP	
2		0.4200	32.23	0.07	32.30	57.45	-25.15	QP	
3		0.7550	25.69	0.04	25.73	56.00	-30.27	QP	
4		2.0150	28.35	0.03	28.38	56.00	-27.62	QP	
5		3.1100	30.97	0.04	31.01	56.00	-24.99	QP	
6	*	4.7900	33.55	0.06	33.61	56.00	-22.39	QP	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	EDGE 1900 Link		Test Date:	July 23, 2008	
Temperature:	25	Humidity:	62 %	Test By:	Jim

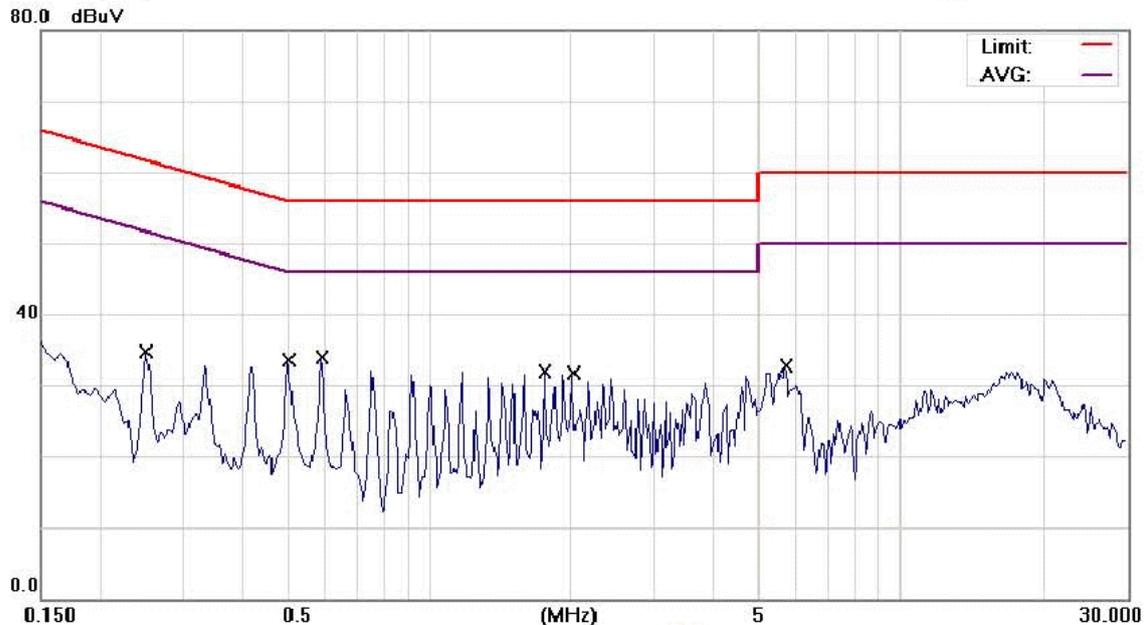
Conducted Emission Measurement

File :T43-2(emc)discrete

Data :#8

Date: 2008/7/23

Time: 上午 10:57:48



Site	SGS CONDUCTED #1	Phase:	L1	Temperature:	25 °C
Limit:	CISPR22/11 Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	62 %
EUT:	MF636	Distance:		Air Pressure:	hpa
M/N:	MF636				
Note:	EDGE 1900				

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2500	34.56	0.14	34.70	61.76	-27.06	QP	
2		0.5000	33.36	0.06	33.42	56.00	-22.58	QP	
3	*	0.5900	33.93	0.06	33.99	56.00	-22.01	QP	
4		1.7600	31.90	0.04	31.94	56.00	-24.06	QP	
5		2.0150	31.62	0.04	31.66	56.00	-24.34	QP	
6		5.7000	32.56	0.07	32.63	60.00	-27.37	QP	

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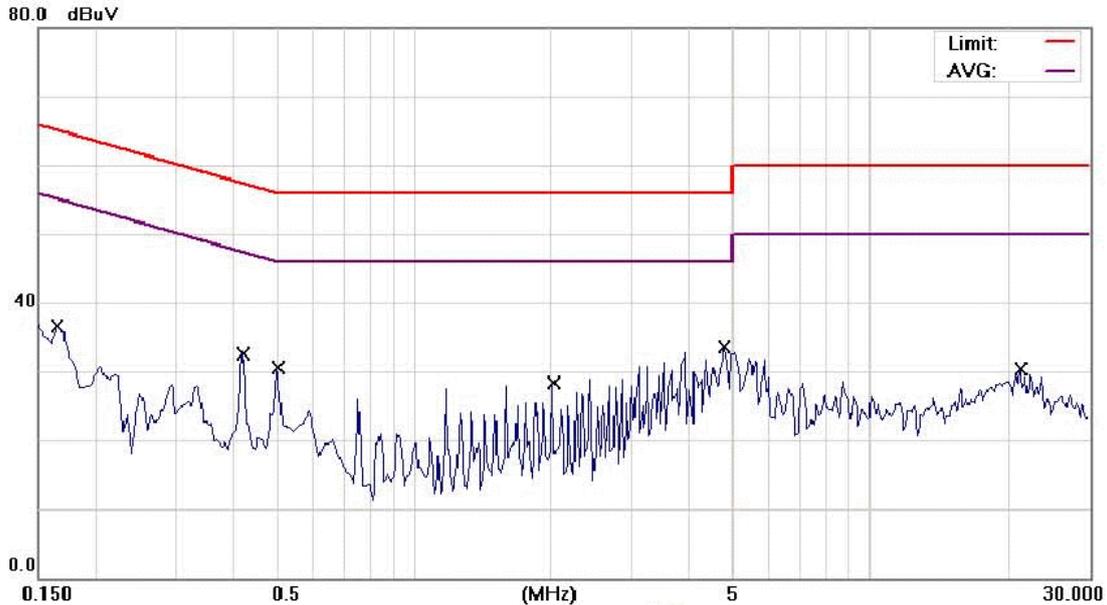
Conducted Emission Measurement

File :T43-2(emc)discrete

Data :#9

Date: 2008/7/23

Time: 上午 11:01:58



Site SGS CONDUCTED #1 Phase: **N** Temperature: 25 °C
 Limit: CISPR22/11 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 62 %
 EUT: MF636 Distance: Air Pressure: hpa
 MN: MF636
 Note: EDGE 1900

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1650	36.13	0.32	36.45	65.21	-28.76	QP	
2		0.4200	32.48	0.07	32.55	57.45	-24.90	QP	
3		0.5000	30.47	0.05	30.52	56.00	-25.48	QP	
4		2.0150	28.29	0.03	28.32	56.00	-27.68	QP	
5	*	4.7900	33.49	0.06	33.55	56.00	-22.45	QP	
6		21.3400	30.22	0.18	30.40	60.00	-29.60	QP	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMAII Link			Test Date:	July 23, 2008
Temperature:	25	Humidity:	62 %	Test By:	Jim

Conducted Emission Measurement

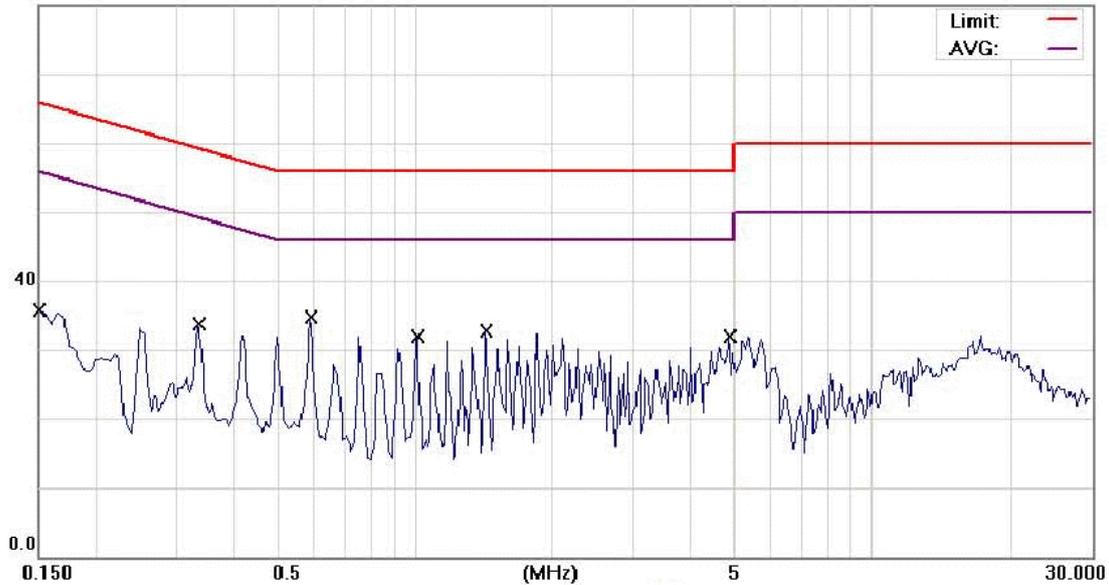
File :T43-2(emc)discrete

Data :#12

Date: 2008/7/23

Time: 上午 11:08:41

80.0 dBuV



Site SGS CONDUCTED #1

Phase: L1

Temperature: 25 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 62 %

EUT: MF636

Distance:

Air Pressure: hpa

M/N: MF636

Note: WCDMA B2

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	35.38	0.41	35.79	66.00	-30.21	QP	
2		0.3350	33.54	0.11	33.65	59.33	-25.68	QP	
3	*	0.5900	34.74	0.06	34.80	56.00	-21.20	QP	
4		1.0100	31.81	0.04	31.85	56.00	-24.15	QP	
5		1.4300	32.69	0.04	32.73	56.00	-23.27	QP	
6		4.8800	31.85	0.05	31.90	56.00	-24.10	QP	

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Conducted Emission Measurement

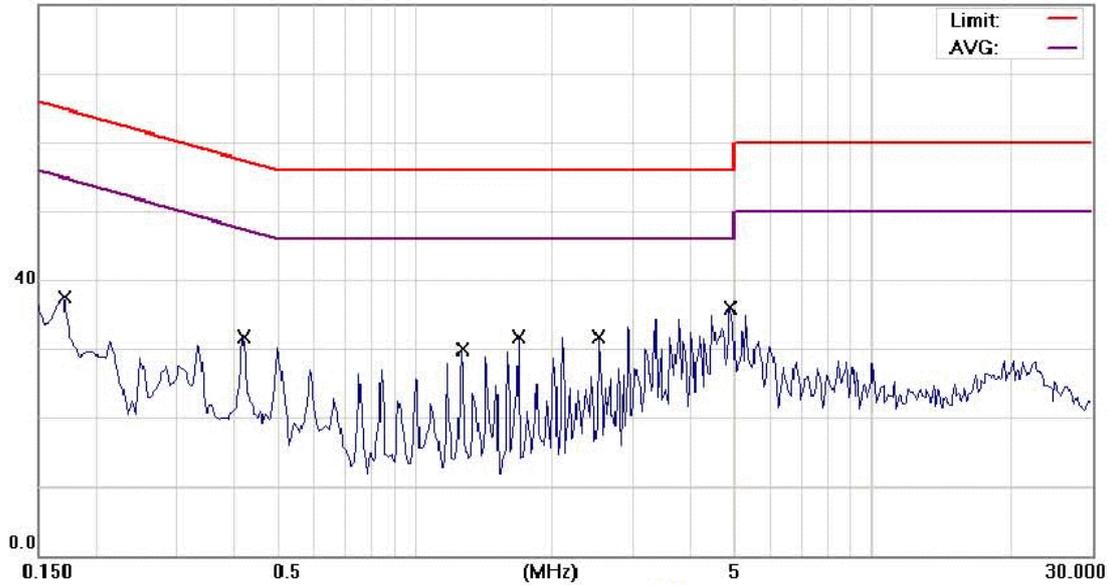
File :T43-2(emc)discrete

Data :#14

Date: 2008/7/23

Time: 上午 11:13:49

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 25 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 82 %

EUT: MF636

Distance:

Air Pressure: hpa

M/N: MF636

Note: WCDMA B2

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	37.16	0.29	37.45	64.96	-27.51	QP	
2		0.4200	31.61	0.07	31.68	57.45	-25.77	QP	
3		1.2650	29.87	0.03	29.90	56.00	-26.10	QP	
4		1.6850	31.69	0.03	31.72	56.00	-24.28	QP	
5		2.5250	31.76	0.03	31.79	56.00	-24.21	QP	
6	*	4.8950	35.89	0.06	35.95	56.00	-20.05	QP	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMAV Link	Test Date:	July 23, 2008
Temperature:	25	Humidity:	62 %
		Test By:	Jim

Conducted Emission Measurement

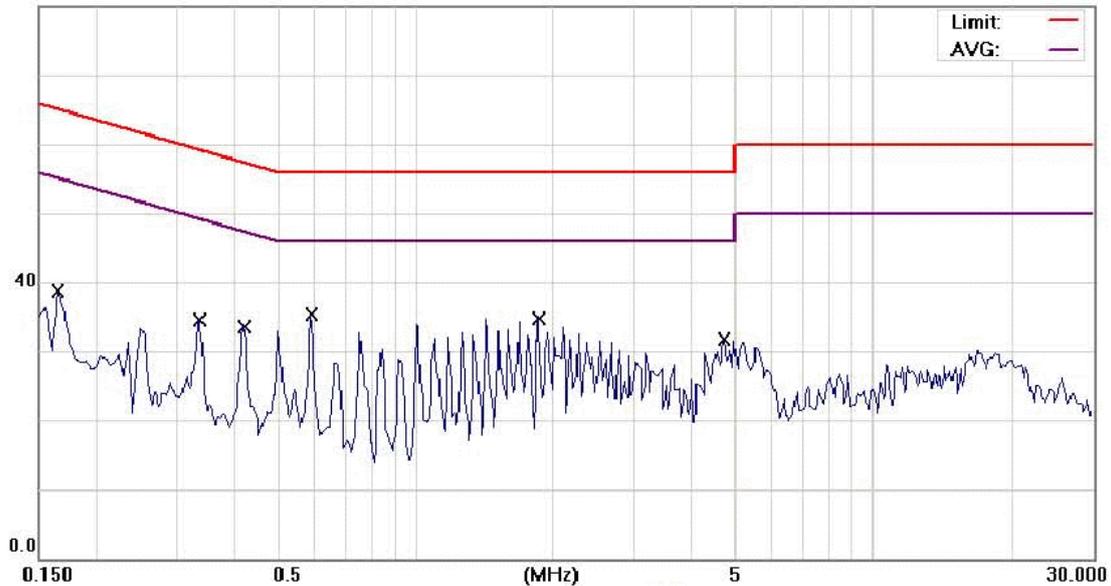
File :T43-2(emc)discrete

Data :#17

Date: 2008/7/23

Time: 上午 11:19:27

80.0 dBuV



Site SGS CONDUCTED #1 Limit: CISPR22/11 Class B Conduction(QP) EUT: MF636 M/N: MF636 Note: WCDMA B5	Phase: L1 Power: AC 120V/60Hz Distance:	Temperature: 25 °C Humidity: 62 % Air Pressure: hpa
---	--	---

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1650	38.37	0.34	38.71	65.21	-26.50	QP	
2		0.3350	34.37	0.11	34.48	59.33	-24.85	QP	
3		0.4200	33.52	0.08	33.60	57.45	-23.85	QP	
4	*	0.5900	35.28	0.06	35.34	56.00	-20.66	QP	
5		1.8500	34.64	0.04	34.68	56.00	-21.32	QP	
6		4.7150	31.72	0.05	31.77	56.00	-24.23	QP	

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Conducted Emission Measurement

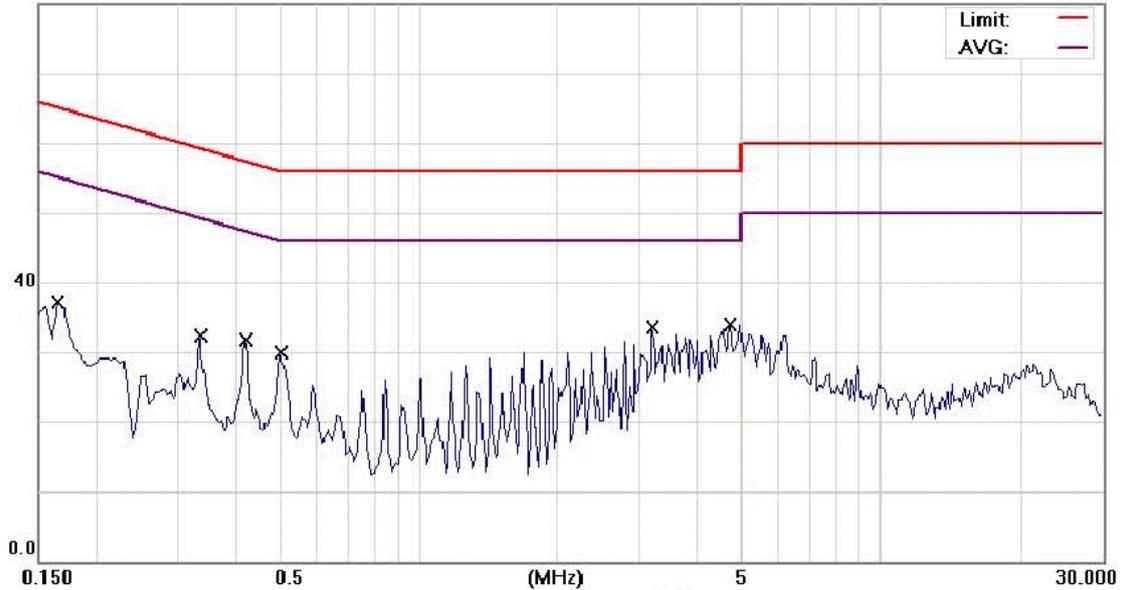
File : T43-2(emc)discrete

Data : #15

Date: 2008/7/23

Time: 上午 11:15:51

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 25 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 62 %

EUT: MF636

Distance:

Air Pressure: hpa

M/N: MF636

Note: WCDMA B5

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	36.76	0.32	37.08	65.21	-28.13	QP	
2		0.3350	32.21	0.10	32.31	59.33	-27.02	QP	
3		0.4200	31.65	0.07	31.72	57.45	-25.73	QP	
4		0.5000	29.77	0.05	29.82	56.00	-26.18	QP	
5		3.2000	33.52	0.04	33.56	56.00	-22.44	QP	
6	*	4.7150	33.83	0.05	33.88	56.00	-22.12	QP	

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