ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name:	**Mobile Internet Device**
Brand Name:	**DELL**
Model Name:	**M01M**
Model Difference:	**N/A**
FCC ID:	**VRSM01M001**
Report No.:	**EH/2009/80058**
Issue Date:	**Dec. 29, 2009**
FCC Rule Part:	**2 , 22H & 24E**
Prepared for:	**Qisda Corporation** **157 Shan-Ying Road, Gueishan**
Prepared by:	**SGS Taiwan Ltd.** **Electronics & Communication Laboratory** **No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.**

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VERIFICATION OF COMPLIANCE

Applicant:	Qisda Corporation Qisda Corporation 157 Shan-Ying Road, Gueishan
Product Name:	Mobile Internet Device
Brand Name:	DELL
Model No.:	M01M
Model Difference:	N/A
FCC ID:	VRSM01M001
File Number:	EH/2009/80058
Date of test:	Aug. 28, 2009 ~ Dec. 27, 2009
Date of EUT Received:	Aug. 28, 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-C-2004 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, PART 24 subpart E.

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

Test By:	Bondi Liu	***Date:***	Dec. 29, 2009
	Bondi Liu / Engineer		
Prepared By:	Alex Hsieh	***Date:***	Dec. 29, 2009
	Alex Hsieh / Sr. Engineer		
Approved By:	Vincent Su	***Date:***	Dec. 29, 2009
	Vincent Su / Manager		

Version

Version No.	Date	Description
00	Dec. 29, 2009	Initial creation of document

Table of Contents

1. GENERAL PRODUCT INFORMATION

General:

Product Name:	Mobile Internet Device	
Brand Name:	DELL	
Model Name:	M01M	
Model Difference:	N/A	
30pin data cable	Part No.: TY.5K190.001,Supplier:PCH	
Mini USB data cable	Part No.: TY.5K190.003,Supplier:PCH	
DC cable	Part No.: TY.5K190.002,Supplier:PCH	
Homedock	Part No.: 6K.0QF08.001,Supplier: Qisda	
Earphone	Part No.: TY.2C190.001,Supplier:PCH	
Power Supply	3.7 Vdc re-chargeable battery or 5V dc by AC/DC power adapter	
	Adapter:	Part No.: 79GTM, Supplier : DELL
	Battery:	Model No.: 20QF0 , Supplier : TD Hitech

GSM:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM/GPRS/EDGE 850, Class 12	824.2 MHz– 848.8MHz	33 dBm
	GSM/GPRS/EDGE 900, Class 12	880.0MHz – 914.8MHz	33 dBm
	GSM/GPRS/EDGE 1800, Class 12	1710.2MHz-1784.8MHz	30 dBm
	GSM/GPRS/EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	30 dBm
	WCDMA/HSUPA/HSDPA Band I	1920MHz – 1980MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4 – 1907.6 MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4 - 846.6 MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band VIII	815MHz – 880MHz	24dBm
Hardware Version:	N/A		
Software Version:	N/A		
Type of Emission	GPRS 850: 245KGXW, GPRS 1900 :248KGXW EDGE 850: 242KG7W, EDGE 1900:246KG7W WCDMA Band II: 4M18F9W, WCDMA Band V: 4M17F9W HSUPA Band II: 4M18F9W, HSUPA Band V: 4M17F9W,		
IMEI:	01195400		

WLAN:

Frequency Range & Channel number:	802.11 b/g: 2412 – 2462 MHz
Rated Power:	802.11 b: 17.68 dBm (EIRP) 802.11 g: 18.63 dBm (EIRP)
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transmission Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps
Antenna Designation:	Monopole Antenna with 1.21dBi peak gain
Type of Emission	15M6G1D

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

Bluetooth:

Bluetooth Version:	☐ V1.1 (GFSK) ☐ V1.2 (GFSK) ☐ V2.0 (GFSK) ☒ V2.0 + EDR (GFSK + π/4DQPSK + 8DPSK) ☐ V2.1 + EDR (GFSK + π/4DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Transmit Power:	6.71 dBm (Peak)
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point
Antenna Designation:	Monopole Antenna with 1.21dBi peak gain
Type of Emission	1M31F7D

GPS:

Receiver Frequency	L1 Band, 1575.42MHz
Frequency Conversion oscillator	3.6864MHz and 32.768kHz

The EUT is compliance with Bluetooth 2.0 + EDR Standard.

This test report applies for GSM/GPRS/EDGE 850/1900, WCDMA/HSDPA/HSUPA band II and band V.

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

This submittal(s) (test report) is intended for FCC ID: **VRSM01M001** filing to comply with Section Part 22 subpart H, 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 document on TIA/EIA-603-C-2004 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

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.

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 AC Power Line 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 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.3 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C, issue 2 of RSS-Gen and TIA/EIA IS-98 for Mobile stations. The EUT is placed on a turn table which is 80 cm above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements.

A standard antenna was used to replace the EUT and connect to the SG. Adjust the SG output level to reach the max emission level which were measured above.

2.4. Measurement Equipment Used:

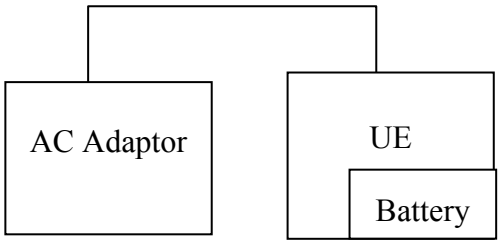
AC POWER LINE CONDUCTED EMISSION EQUIPMENT List					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2009	09/15/2010
LISN	Rolf-Heine	NNB-2/16Z	99012	04/28/2009	04/27/2010
LISN	FCC	FCC-LISN-50 /250-25-2-01	04034	04/28/2009	04/27/2010
Coaxial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

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	05/13/208	05/13/2010
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
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	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010
DC Power Supply	HP	6038A	2929A-07548	06/27/2009	06/26/2010
DC Power Supply	Topward	3303D	981327	10/26/2009	10/25/2010

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
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	11/19/2009	11/18/2010
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	06/11/2009	06/10/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/27/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/208	05/12/2010
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
Filter 800-1000	Micro-Tronics	BRM13462	1	01/05/2009	01/04/2010
Filter 1800-2000	Micro-Tronics	BRM13463	1	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

2.5. Configuration of Tested System

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



Remote Side

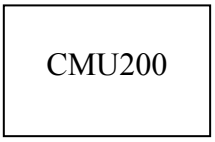


Table 2-1 Equipment Used in Tested System

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

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a) §24.232(c)(d)	RF Peak Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)	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) §22.355 §24.235	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(2) §22.355 §24.235	Frequency Stability vs. Voltage	Compliant
§15.107;§15.207	AC Power Line Conducted Emission	Compliant

Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	33.64	ERP	2.312
GPRS 1900 Band	31.75	EIRP	1.496
EDGE 850 Band	31.14	ERP	1.300
EDGE 1900 Band	31.06	EIRP	1.276
WCDMA Band II	22.97	EIRP	0.198
WCDMA Band V	24.33	EIRP	0.271
HSUPA Band II	28.17	EIRP	0.656
HSUPA Band V	24.86	EIRP	0.306
HSDPA Band II	27.74	EIRP	0.594
HSDPA Band V	24.56	EIRP	0.286

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as EUT stand-up position (E1 mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE and WCDMA Band II and V with power adaptors. The worst-case of E2 position for GPRS 850 band, H position for GPRS 1900, H position HSUPA Band II, E1 position HSUPA Band V were reported.

5. RF POWER OUTPUT MEASUREMENT

5.1 Standard Applicable:

According to FCC §2.1046.

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

FCC 24.232(d) Peak Power Measurement, FCC 24.232(c) Maximum Power Reduction.

3GPP Power limitation for HSDPA and HSUPA

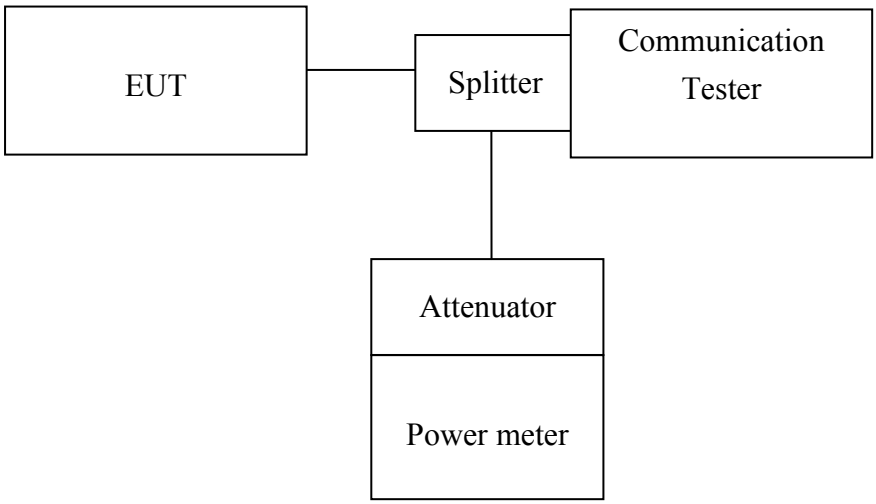
Maximum Output Powers for HSDPA

Sub-test in table C.10.1.4	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-3.7	+21	+2.7/-2.7
2	+24	+1.7/-3.7	+21	+2.7/-2.7
3	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7
4	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7

Maximum Output Powers for HSUPA

Sub-test in table C.11.1.3	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-6.7	+21	+2.7/-5.7
2	+22	+3.7/-5.2	+19	+4.7/-4.2
3	+23	+2.7/-5.2	+20	+3.7/-4.2
4	+22	+3.7/-5.2	+19	+4.7/-4.2
5	+24	+1.7/-6.7	+21	+2.7/-5.7

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/HSDPA) was used for EUT and Base station setting.RMC 12.2kps is used for this testing

5.4 Measurement Equipment Used:

Refer to section 2.4 in this report

5.5 Measurement Result:

5.1 RF Conducted Output Power

5.1.1.: GSM/EDGE (GMSK; 8-PSK)

Result:

Frequency (MHz)	CH	1 Time Slot				2 Time Slot			
		GMSK Mode		8-PSK Mode		GMSK Mode		8-PSK Mode	
		Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)
824.2	128	32.81	32.77	30.14	27.22	32.73	32.64	29.88	27.12
836.6	190	32.89	32.78	30.31	27.41	32.78	32.67	30.05	27.24
848.8	251	32.86	32.76	30.52	27.62	32.77	32.65	30.19	27.42
1850.2	512	29.84	29.75	29.12	26.08	29.82	29.70	28.84	25.92
1880.0	661	29.93	29.85	29.33	26.38	29.92	29.77	29.03	26.01
1909.8	810	29.99	29.88	29.16	26.16	29.93	29..82	29.01	25.98

Frequency (MHz)	CH	3 Time Slot				4 Time Slot			
		GMSK Mode		8-PSK Mode		GMSK Mode		8-PSK Mode	
		Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)
824.2	128	30.64	30.53	29.82	27.07	29.62	29.51	28.57	25.58
836.6	190	30.69	30.59	29.98	27.18	29.64	29.53	28.96	25.94
848.8	251	30.67	30.58	30.12	27.29	29.67	29.51	28.83	25.87
1850.2	512	29.69	29.58	28.89	25.81	27.25	27.14	27.12	24.28
1880.0	661	29.91	29.82	28.84	25.87	27.28	27.27	27.61	24.52
1909.8	810	29.73	29.73	28.81	25.85	27.34	27.22	27.14	24.11

5.1.2.: WCDMA mode

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WCDMA Band II	1852.4	9262	25.79	22.82
	1880	9400	25.38	22.41
	1907.6	9538	25.09	22.07

Note: The results above reflect max power with all up bits.

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	AVG. Power (dBm)
WCDMA Band V	826.4	4132	25.94	22.92
	836.6	4183	25.91	22.86
	846.6	4233	25.84	22.89

Note: The results above reflect max power with all up bits

5.1.3.: HSDPA Release 6 mode

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d *(SF)*	β_c/β_d	β_{HS} (*Note1, Note 2*)	CM (dB) *(Note 3)*	MPR (dB) *(Note 3)*	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 *(Note 4)*	15/15 *(Note 4)*	64	12/15 *(Note 4)*	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Results:

Mode	Sub-test	Transmitter Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA(B2)	1	23.11	22.67	22.34	20.3dBm – 25.7dBm	Pass
	2	22.7	22.27	21.92	20.3dBm – 25.7dBm	Pass
	3	22.63	22.22	21.81	19.8dBm – 25.7dBm	Pass
	4	22.7	22.23	21.93	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Transmitter Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA(B5)	1	23.14	23.11	23.08	20.3dBm – 25.7dBm	Pass
	2	22.85	22.75	22.76	20.3dBm – 25.7dBm	Pass
	3	22.68	22.63	22.59	19.8dBm – 25.7dBm	Pass
	4	22.73	22.67	22.65	19.8dBm – 25.7dBm	Pass

5.1.4.: HSPA (HSDPA & HSUPA) Release 6 mode

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA are implemented as per following sub-tests.

Results:

Mode	Sub-test	TX Power (dBm) Channel			Power Class 3 Limita-tion (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	22.74	22.39	22.01	18.8dBm – 25.7dBm	Pass
	2	20.79	20.46	20.05	16.8dBm – 25.7dBm	Pass
	3	21.80	21.41	21.09	17.8dBm – 25.7dBm	Pass
	4-	20.92	20.51	20.09	16.8dBm – 25.7dBm	Pass
	5	22.63	22.25	21.92	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	TX Power (dBm) Channel			Power Class 3 Limita-tion (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	22.88	22.79	22.81	18.8dBm – 25.7dBm	Pass
	2	20.94	20.87	20.85	16.8dBm – 25.7dBm	Pass
	3	21.92	21.85	21.89	17.8dBm – 25.7dBm	Pass
	4-	20.99	20.93	20.93	16.8dBm – 25.7dBm	Pass
	5	22.74	22.62	22.70	18.8dBm – 25.7dBm	Pass

5.2. Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.84	27.90	25.94	23.88	22.91	20.87	18..85	16.84	14.82
PCL	9	10	11	12	13	14	15	16	17
Output power (dBm)	12.87	10.86	8.83	6.87	4.84	2.83	0.82		

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

WCDMA/HSDPA/HSUPA band II & V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 15 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.5dBm. The power variation can be 0.1dB step by setting.

6. ERP, EIRP MEASUREMENT

6.1. Standard Applicable:

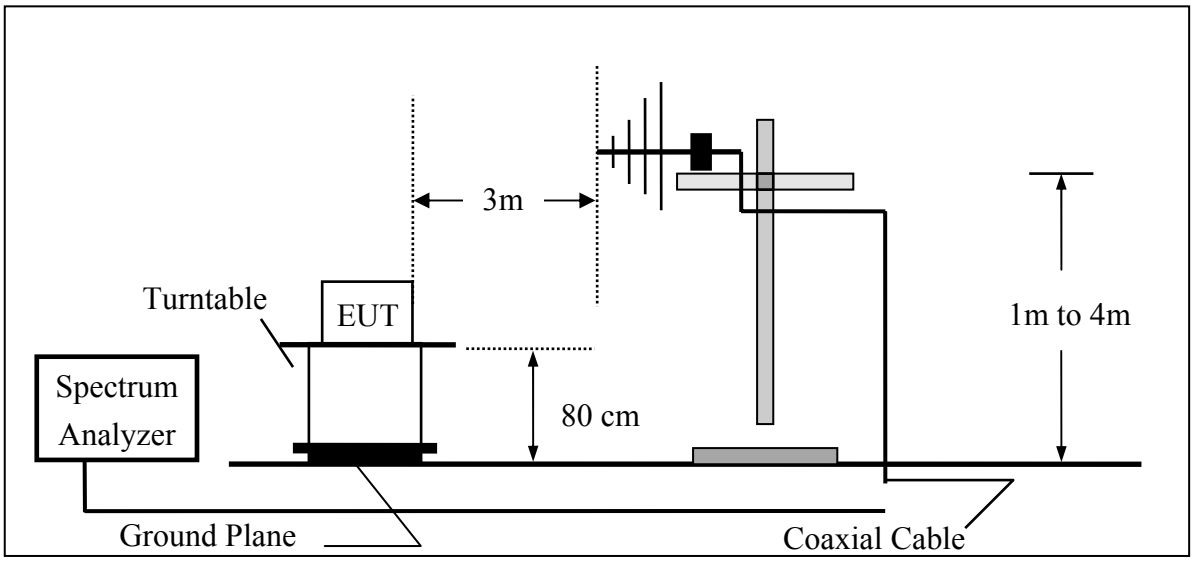
According to FCC §2.1046

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

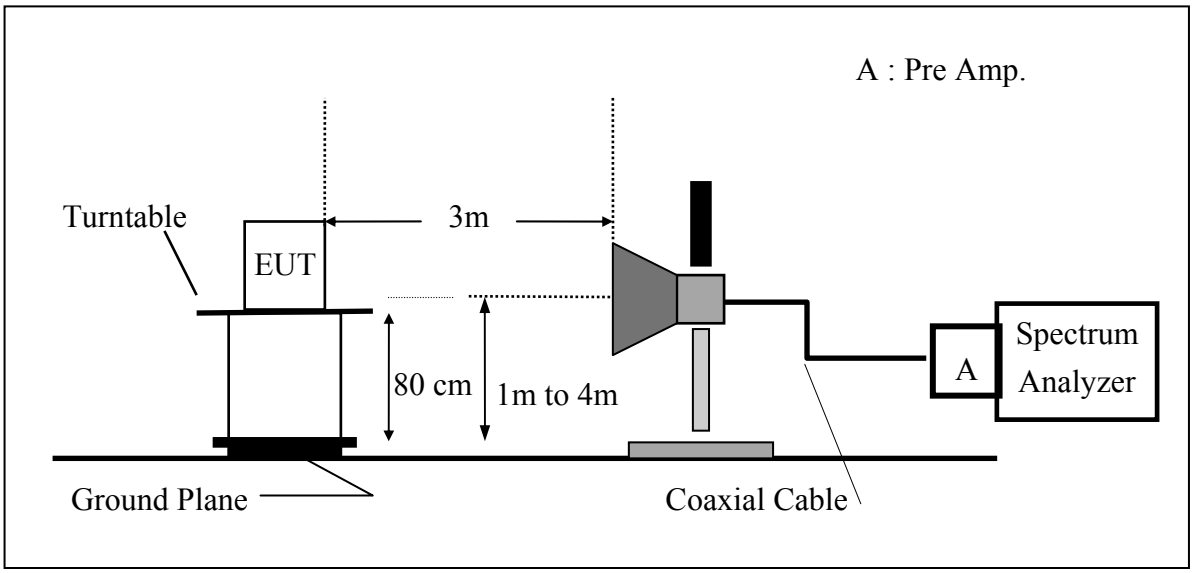
FCC 24.232(b) Mobile station are limited to 2W EIRP.

6.2. Test SET-UP (Block Diagram of Configuration):

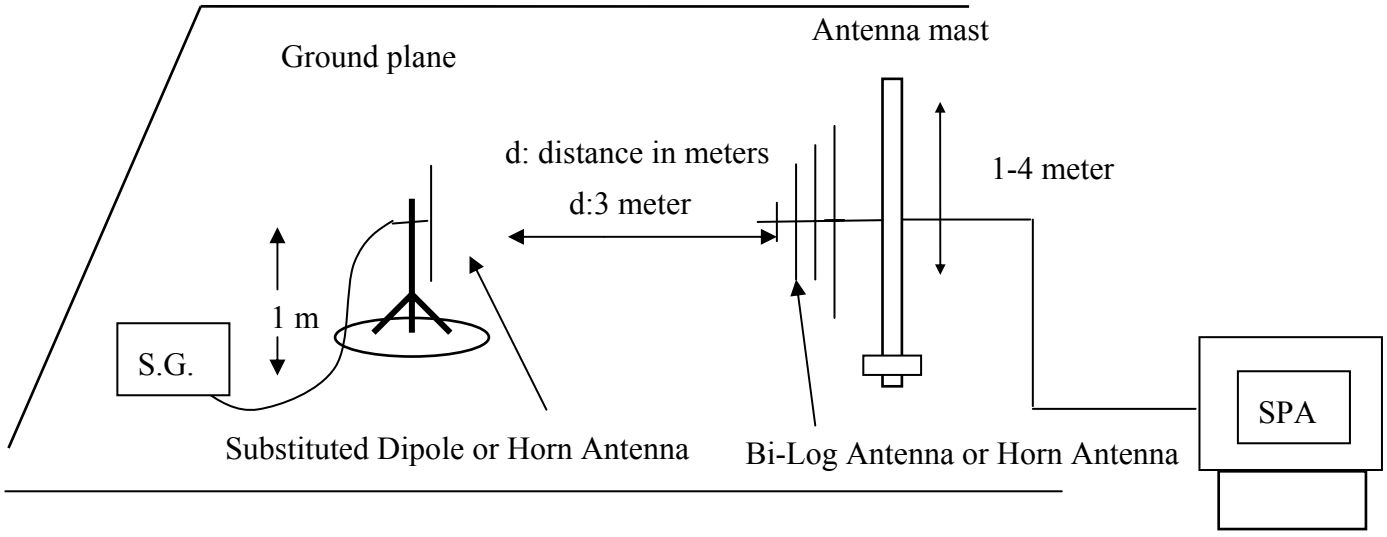
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



(C) Substituted Method Test Set-UP



6.3. Measurement Procedure:

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

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

ERP in frequency band 824.2 –848.80MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1710-1755MHz and 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:

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

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

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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)
GPRS 850	824.20	128	H	V	121.81	35.42	-7.87	3.62	23.92	38.45
				H	130.01	43.74	-7.87	3.62	32.24	38.45
			E1	V	130.88	44.49	-7.87	3.62	32.99	38.45
				H	125.01	38.74	-7.87	3.62	27.24	38.45
			E2	V	123.63	37.24	-7.87	3.62	25.74	38.45
				H	131.41	45.14	-7.87	3.62	**33.64**	38.45
	836.60	190	H	V	118.72	32.47	-7.88	3.65	20.94	38.45
				H	129.37	43.14	-7.88	3.65	31.61	38.45
			E1	V	130.47	44.22	-7.88	3.65	32.69	38.45
				H	125.40	39.17	-7.88	3.65	27.64	38.45
			E2	V	122.19	35.94	-7.88	3.65	24.41	38.45
				H	130.95	44.72	-7.88	3.65	33.19	38.45
	848.80	251	H	V	117.66	31.54	-7.88	3.68	19.98	38.45
				H	128.55	42.36	-7.88	3.68	30.80	38.45
			E1	V	130.54	44.42	-7.88	3.68	32.86	38.45
				H	125.76	39.57	-7.88	3.68	28.01	38.45
			E2	V	121.66	35.54	-7.88	3.68	23.98	38.45
				H	130.36	44.17	-7.88	3.68	32.61	38.45

Remark：

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz,

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)
GPRS 1900	1850.20	512	H	V	116.83	12.44	9.90	5.56	16.78	33.00
				H	130.60	26.42	9.90	5.56	30.76	33.00
			E1	V	124.95	20.56	9.90	5.56	24.90	33.00
				H	125.81	21.63	9.90	5.56	25.97	33.00
			E2	V	129.02	24.63	9.90	5.56	28.97	33.00
				H	126.22	22.04	9.90	5.84	26.10	33.00
	1880.00	661	H	V	119.14	14.78	9.99	5.61	19.16	33.00
				H	131.25	27.11	9.99	5.61	31.48	33.00
			E1	V	125.59	21.23	9.99	5.61	25.61	33.00
				H	126.97	22.83	9.99	5.61	27.20	33.00
			E2	V	129.88	25.52	9.99	5.61	29.90	33.00
				H	125.93	21.79	9.99	5.61	26.16	33.00
	1909.80	810	H	V	119.20	14.87	10.08	5.66	19.29	33.00
				H	131.44	27.33	10.08	5.66	**31.75**	33.00
			E1	V	125.93	21.60	10.08	5.66	26.02	33.00
				H	128.11	24.00	10.08	5.66	28.42	33.00
			E2	V	130.44	26.11	10.08	5.66	30.53	33.00
				H	124.42	20.31	10.08	5.66	24.73	33.00

Remark：

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz,

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	118.99	32.60	-7.87	3.62	21.10	38.45
				H	127.89	41.62	-7.87	3.62	30.12	38.45
			E1	V	128.44	42.05	-7.87	3.62	30.55	38.45
				H	122.62	36.35	-7.87	3.62	24.85	38.45
			E2	V	121.32	34.93	-7.87	3.62	23.43	38.45
				H	128.91	42.64	-7.87	3.62	**31.14**	38.45
	836.60	190	H	V	117.57	31.32	-7.88	3.65	19.79	38.45
				H	127.60	41.37	-7.88	3.65	29.84	38.45
			E1	V	128.09	41.84	-7.88	3.65	30.31	38.45
				H	123.09	36.86	-7.88	3.65	25.33	38.45
			E2	V	119.53	33.28	-7.88	3.65	21.75	38.45
				H	128.06	41.83	-7.88	3.65	30.30	38.45
	848.80	251	H	V	116.86	30.74	-7.88	3.68	19.18	38.45
				H	127.35	41.16	-7.88	3.68	29.60	38.45
			E1	V	128.11	41.99	-7.88	3.68	30.43	38.45
				H	123.39	37.20	-7.88	3.68	25.64	38.45
			E2	V	118.96	32.84	-7.88	3.68	21.28	38.45
				H	127.66	41.47	-7.88	3.68	29.91	38.45

Remark：

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz,

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)
EDGE 1900	1850.20	512	H	V	116.05	11.66	9.90	5.56	16.00	33.00
				H	129.94	25.76	9.90	5.56	30.10	33.00
			E1	V	124.21	19.82	9.90	5.56	24.16	33.00
				H	125.11	20.93	9.90	5.56	25.27	33.00
			E2	V	128.28	23.89	9.90	5.56	28.23	33.00
				H	124.34	20.16	9.90	5.84	24.22	33.00
	1880.00	661	H	V	118.14	13.78	9.99	5.61	18.16	33.00
				H	130.56	26.42	9.99	5.61	30.79	33.00
			E1	V	124.74	20.38	9.99	5.61	24.76	33.00
				H	126.23	22.09	9.99	5.61	26.46	33.00
			E2	V	129.19	24.83	9.99	5.61	29.21	33.00
				H	123.97	19.83	9.99	5.61	24.20	33.00
	1909.80	810	H	V	118.39	14.06	10.08	5.66	18.48	33.00
				H	130.75	26.64	10.08	5.66	**31.06**	33.00
			E1	V	125.05	20.72	10.08	5.66	25.14	33.00
				H	127.42	23.31	10.08	5.66	27.73	33.00
			E2	V	129.47	25.14	10.08	5.66	29.56	33.00
				H	124.44	20.33	10.08	5.66	24.75	33.00

Remark：

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz,

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	108.13	3.61	9.48	5.33	7.75	33.00
				H	122.00	17.67	9.48	5.33	21.81	33.00
			E1	V	115.70	11.18	9.48	5.33	15.32	33.00
				H	116.38	12.05	9.48	5.33	16.19	33.00
			E2	V	116.42	11.90	9.48	5.33	16.04	33.00
				H	114.40	10.07	9.90	5.84	14.13	33.00
	1880.00	9400	H	V	109.13	4.63	9.54	5.36	8.80	33.00
				H	123.11	18.80	9.54	5.36	**22.97**	33.00
			E1	V	115.97	11.47	9.54	5.36	15.64	33.00
				H	117.55	13.24	9.54	5.36	17.41	33.00
			E2	V	117.44	12.94	9.54	5.36	17.11	33.00
				H	114.73	10.42	9.54	5.36	14.59	33.00
	1907.60	9538	H	V	109.98	5.50	9.61	5.40	9.70	33.00
				H	122.61	18.32	9.61	5.40	22.53	33.00
			E1	V	115.19	10.71	9.61	5.40	14.91	33.00
				H	116.54	12.25	9.61	5.40	16.46	33.00
			E2	V	117.58	13.10	9.61	5.40	17.30	33.00
				H	113.16	8.87	9.61	5.40	13.08	33.00

Remark：

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
WCDMA Band V	826.40	128	H	V	108.08	21.72	-7.88	3.63	10.21	38.45
				H	122.09	35.83	-7.88	3.63	**24.33**	38.45
			E1	V	121.81	35.45	-7.88	3.63	23.94	38.45
				H	113.59	27.33	-7.88	3.63	15.83	38.45
			E2	V	115.06	28.70	-7.88	3.63	17.19	38.45
				H	120.74	34.48	-7.88	3.63	22.98	38.45
	836.00	190	H	V	108.50	22.24	-7.88	3.65	10.71	38.45
				H	121.87	35.64	-7.88	3.65	24.11	38.45
			E1	V	121.78	35.52	-7.88	3.65	23.99	38.45
				H	114.35	28.12	-7.88	3.65	16.59	38.45
			E2	V	115.65	29.39	-7.88	3.65	17.86	38.45
				H	120.71	34.48	-7.88	3.65	22.95	38.45
	846.60	251	H	V	109.32	23.17	-7.88	3.67	11.62	38.45
				H	121.36	35.16	-7.88	3.67	23.61	38.45
			E1	V	121.35	35.19	-7.88	3.67	23.64	38.45
				H	114.51	28.31	-7.88	3.67	16.76	38.45
			E2	V	115.56	29.41	-7.88	3.67	17.86	38.45
				H	120.50	34.30	-7.88	3.67	22.75	38.45

Remark：

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

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	112.82	8.44	9.90	5.56	12.77	33.00
				H	126.76	22.58	9.90	5.56	26.92	33.00
			E1	V	117.94	13.56	9.90	5.56	17.89	33.00
				H	119.32	15.14	9.90	5.56	19.48	33.00
			E2	V	125.75	21.37	9.90	5.56	25.70	33.00
				H	124.39	20.21	9.90	5.84	24.27	33.00
	1880.00	9400	H	V	114.01	9.65	9.99	5.61	14.03	33.00
				H	127.94	23.80	9.99	5.61	**28.17**	33.00
			E1	V	119.16	14.77	9.90	5.56	19.11	33.00
				H	121.18	17.04	9.99	5.61	21.41	33.00
			E2	V	126.20	21.84	9.99	5.61	26.22	33.00
				H	123.95	19.81	9.99	5.61	24.18	33.00
	1907.60	9538	H	V	114.57	10.24	10.07	5.66	14.65	33.00
				H	127.20	23.09	10.07	5.66	27.50	33.00
			E1	V	118.68	14.35	10.07	5.66	18.76	33.00
				H	120.27	16.16	10.07	5.66	20.57	33.00
			E2	V	125.49	21.16	10.07	5.66	25.57	33.00
				H	121.94	17.83	10.07	5.66	22.24	33.00

Remark：

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

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)
HSUPA Band V	826.40	128	H	V	108.91	22.55	-7.88	3.63	11.04	38.45
				H	122.47	36.21	-7.88	3.63	24.71	38.45
			E1	V	121.98	35.62	-7.88	3.63	24.11	38.45
				H	113.56	27.30	-7.88	3.63	15.80	38.45
			E2	V	115.85	29.49	-7.88	3.63	17.98	38.45
				H	121.37	35.11	-7.88	3.63	23.61	38.45
	836.00	190	H	V	109.66	23.40	-7.88	3.65	11.87	38.45
				H	122.60	36.37	-7.88	3.65	24.84	38.45
			E1	V	122.65	36.39	-7.88	3.65	**24.86**	38.45
				H	115.06	28.83	-7.88	3.65	17.30	38.45
			E2	V	116.49	30.23	-7.88	3.65	18.70	38.45
				H	121.68	35.45	-7.88	3.65	23.92	38.45
	846.60	251	H	V	110.31	24.16	-7.88	3.67	12.61	38.45
				H	115.88	29.68	-7.88	3.67	18.13	38.45
			E1	V	121.70	35.54	-7.88	3.67	23.99	38.45
				H	114.67	28.47	-7.88	3.67	16.92	38.45
			E2	V	115.78	29.63	-7.88	3.67	18.08	38.45
				H	120.50	34.30	-7.88	3.67	22.75	38.45

Remark：

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

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)
HSDPA Band II	1852.40	9262	H	V	112.55	8.17	9.90	5.56	12.50	33.00
				H	126.67	22.49	9.90	5.56	26.83	33.00
			E1	V	117.65	13.27	9.90	5.56	17.60	33.00
				H	119.11	14.93	9.90	5.56	19.27	33.00
			E2	V	125.47	21.09	9.90	5.56	25.42	33.00
				H	124.05	19.87	9.90	5.84	23.93	33.00
	1880.00	9400	H	V	113.71	9.35	9.99	5.61	13.73	33.00
				H	127.51	23.37	9.99	5.61	**27.74**	33.00
			E1	V	118.58	14.19	9.90	5.56	18.53	33.00
				H	120.35	16.21	9.99	5.61	20.58	33.00
			E2	V	125.62	21.26	9.99	5.61	25.64	33.00
				H	123.34	19.20	9.99	5.61	23.57	33.00
	1907.60	9538	H	V	113.67	9.34	10.07	5.66	13.75	33.00
				H	126.16	22.05	10.07	5.66	26.46	33.00
			E1	V	118.38	14.05	10.07	5.66	18.46	33.00
				H	120.20	16.09	10.07	5.66	20.50	33.00
			E2	V	124.64	20.31	10.07	5.66	24.72	33.00
				H	121.85	17.74	10.07	5.66	22.15	33.00

Remark：

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

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)
HSDPA Band V	826.40	128	H	V	108.68	22.32	-7.88	3.63	10.81	38.45
				H	122.32	36.06	-7.88	3.63	**24.56**	38.45
			E1	V	121.80	35.44	-7.88	3.63	23.93	38.45
				H	113.33	27.07	-7.88	3.63	15.57	38.45
			E2	V	115.80	29.44	-7.88	3.63	17.93	38.45
				H	120.85	34.59	-7.88	3.63	23.09	38.45
	836.00	190	H	V	109.51	23.25	-7.88	3.65	11.72	38.45
				H	121.60	35.37	-7.88	3.65	23.84	38.45
			E1	V	121.65	35.39	-7.88	3.65	23.86	38.45
				H	114.86	28.63	-7.88	3.65	17.10	38.45
			E2	V	115.84	29.58	-7.88	3.65	18.05	38.45
				H	121.68	35.45	-7.88	3.65	23.92	38.45
	846.60	251	H	V	109.90	23.75	-7.88	3.67	12.20	38.45
				H	115.71	29.51	-7.88	3.67	17.96	38.45
			E1	V	121.69	35.53	-7.88	3.67	23.98	38.45
				H	114.25	28.05	-7.88	3.67	16.50	38.45
			E2	V	115.20	29.05	-7.88	3.67	17.50	38.45
				H	120.01	33.81	-7.88	3.67	22.26	38.45

Remark：

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

7. 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1. Standard Applicable:

According to §FCC 2.1049.

7.2. Test Set-up:

Refer to section 5.2 in this report

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.

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

7.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.2452
	836.60	190	0.2444
	848.80	251	0.2428

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.2458
	1880.00	661	0.2476
	1909.80	810	0.2451

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2359
	836.60	190	0.2422
	848.80	251	0.2408

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2450
	1880.00	661	0.2444
	1909.80	810	0.2460

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band II	1852.40	9262	4.1707
	1880.00	9400	4.1644
	1907.60	9538	4.1792

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band V	826.40	4132	4.1534
	836.60	4180	4.1640
	846.60	4233	4.1665

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA Band II	1852.40	9262	4.1722
	1880.00	9400	4.1797
	1907.60	9538	4.1563

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA Band V	826.40	4132	4.1652
	836.60	4180	4.1738
	846.60	4233	4.1563

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA Band II	1852.40	9262	4.1772
	1880.00	9400	4.1796
	1907.60	9538	4.1573

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA Band V	826.40	4132	4.1663
	836.60	4180	4.1756
	846.60	4233	4.1574

Figure 7-1: GPRS 850 Channel Low

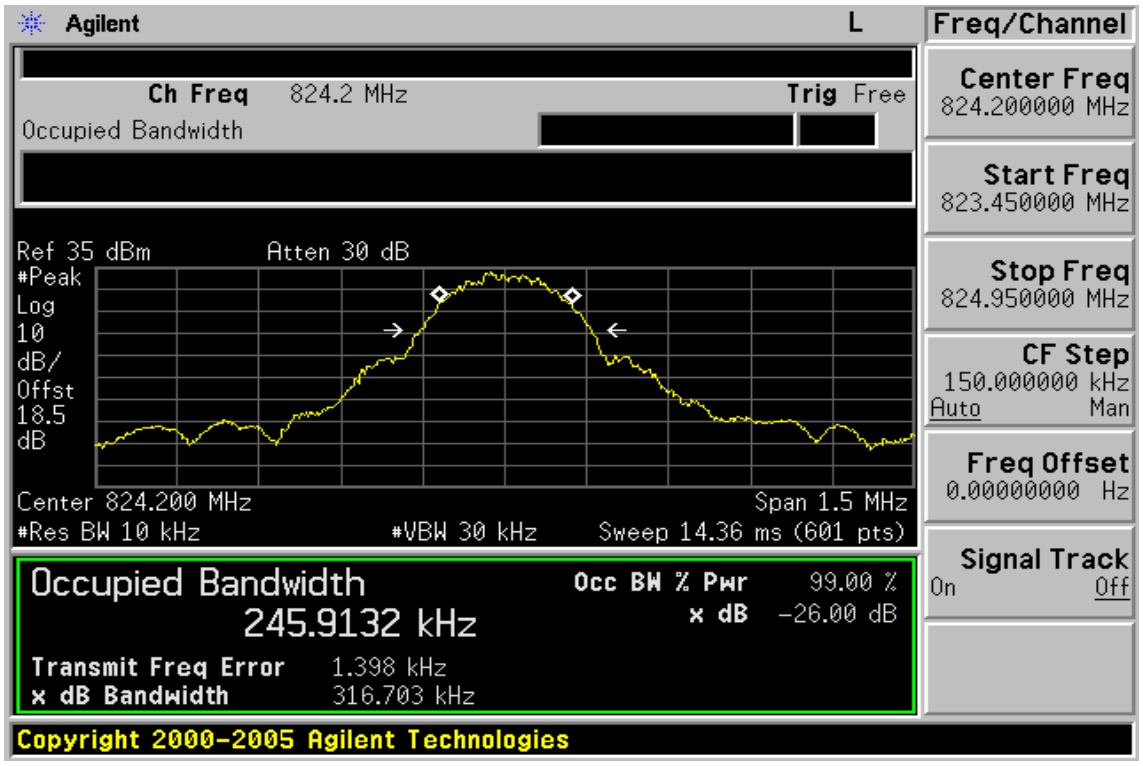


Figure 7-2 GPRS 850 Channel Mid

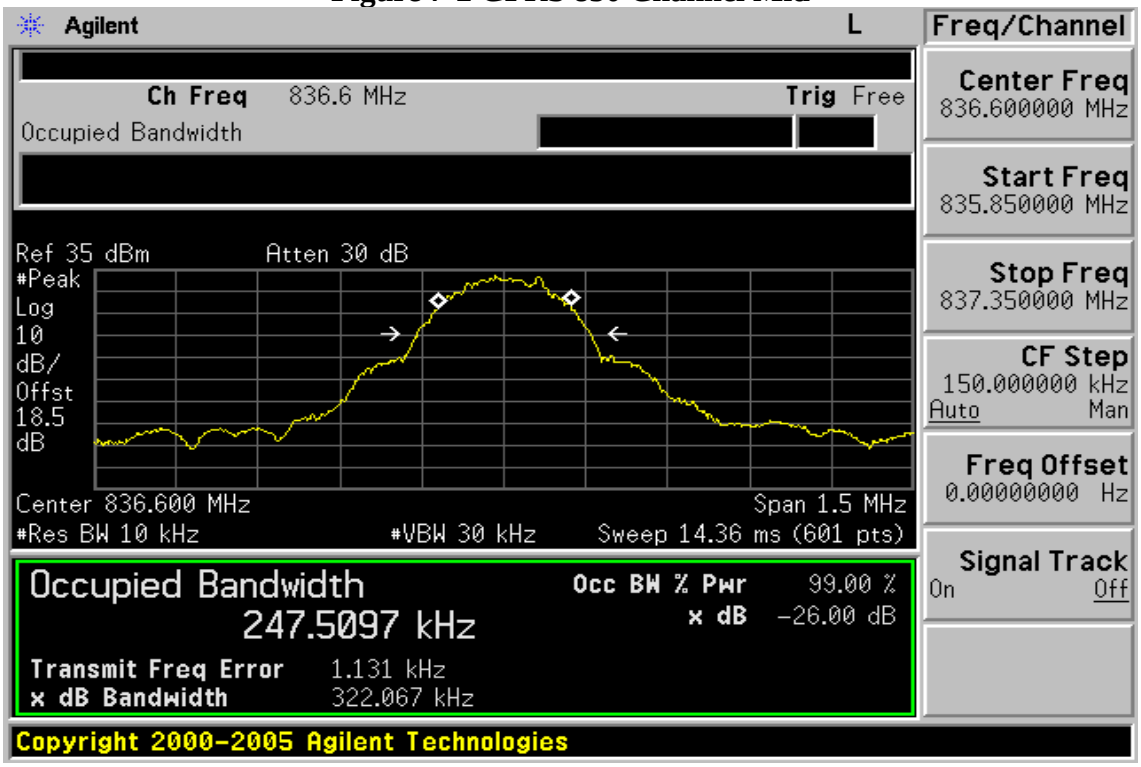


Figure 7-3: GPRS 850 Channel High

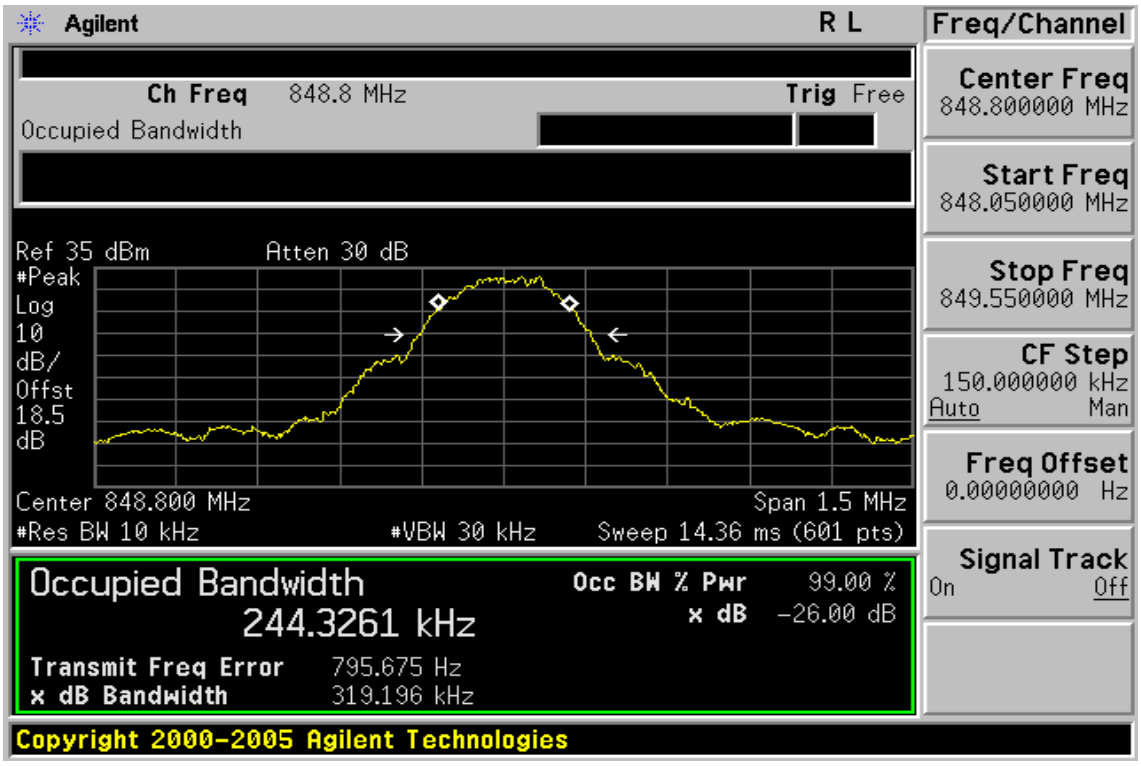


Figure 7-4: GPRS 1900 Channel Low

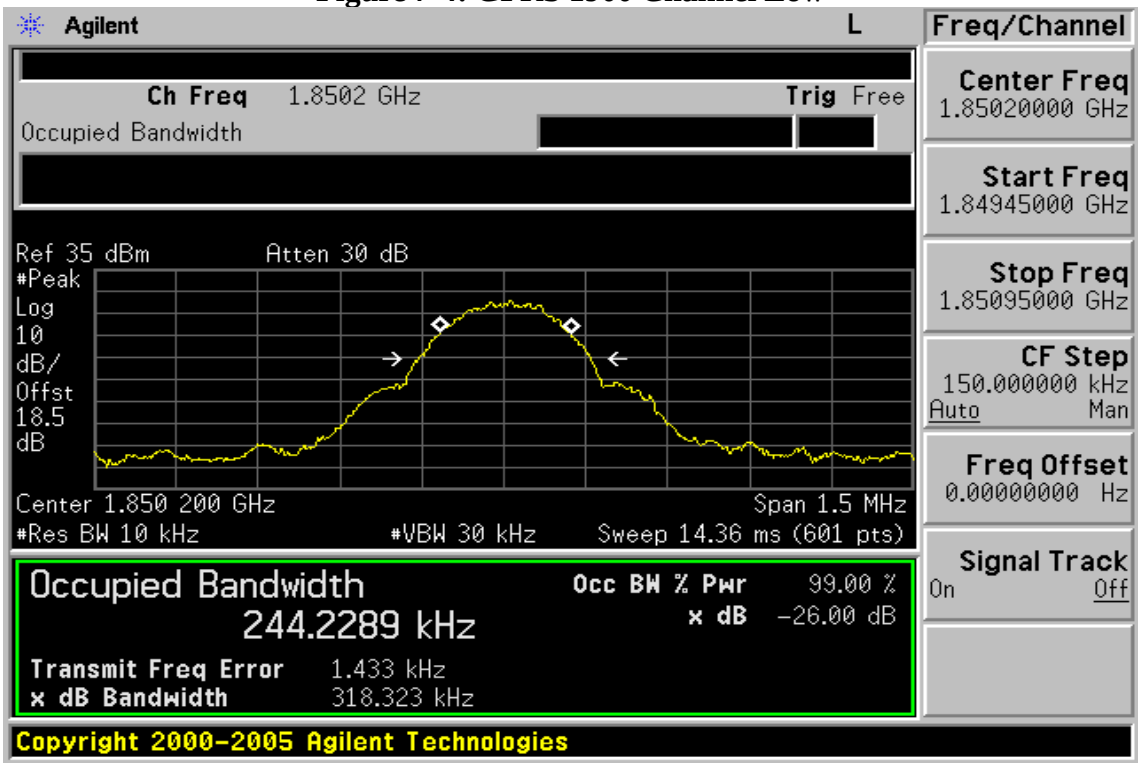


Figure 7-5 GPRS 1900 Channel Mid

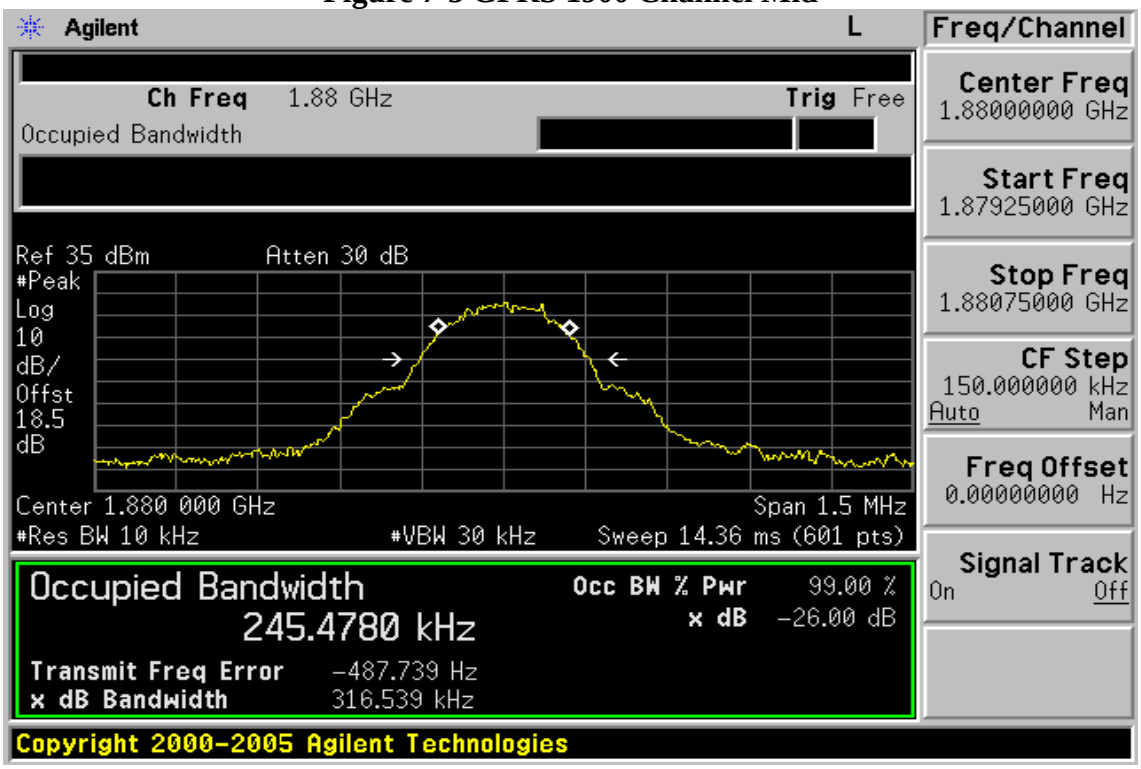


Figure 7-6: GPRS 1900 Channel High

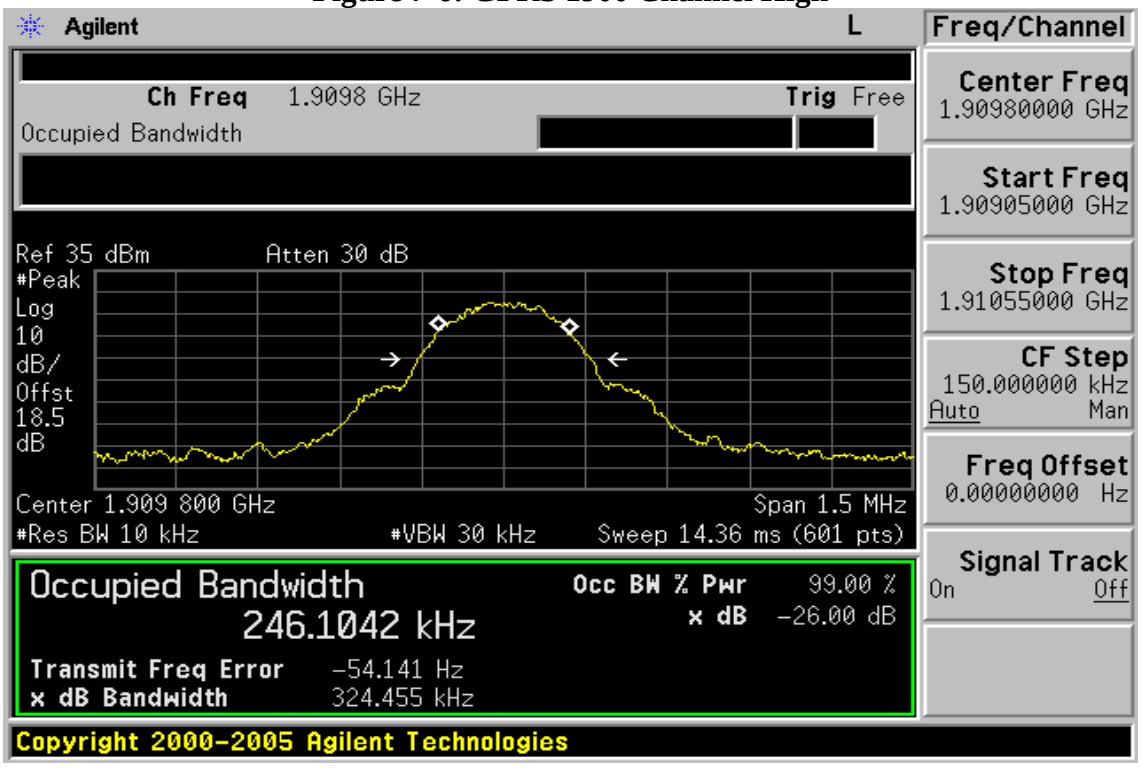


Figure 7-7: EDGE 850 Channel Low

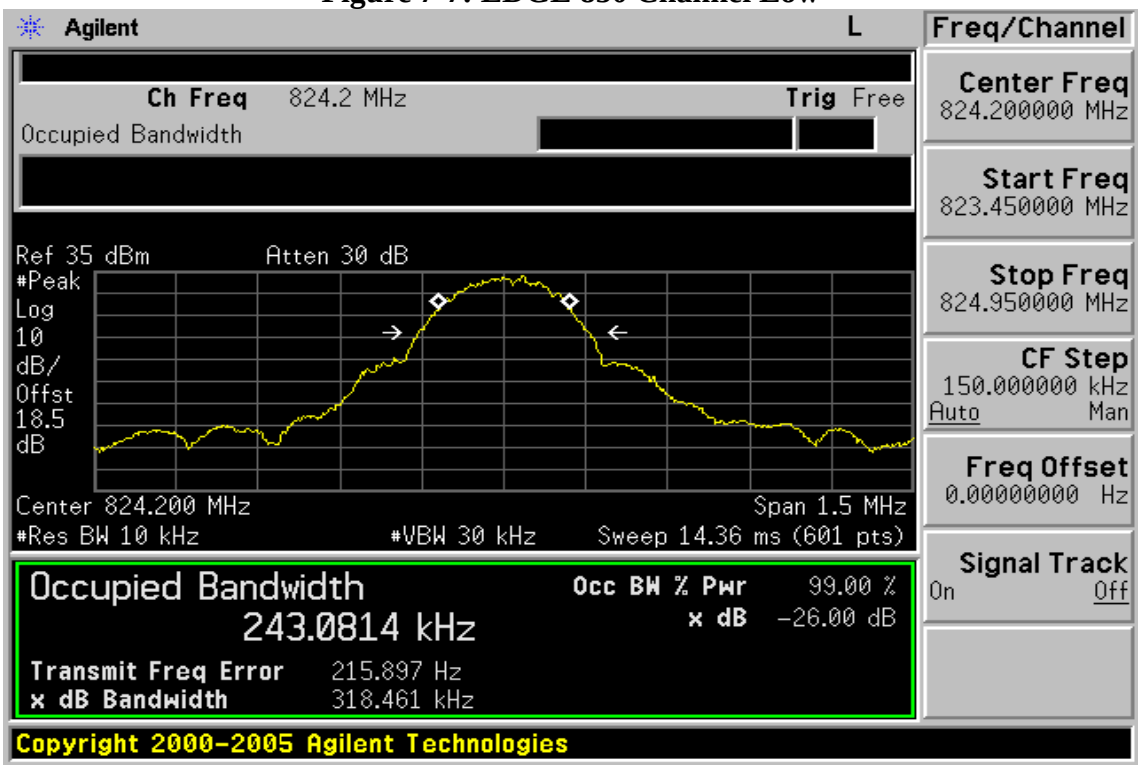


Figure 7-8 EDGE 850 Channel Mid

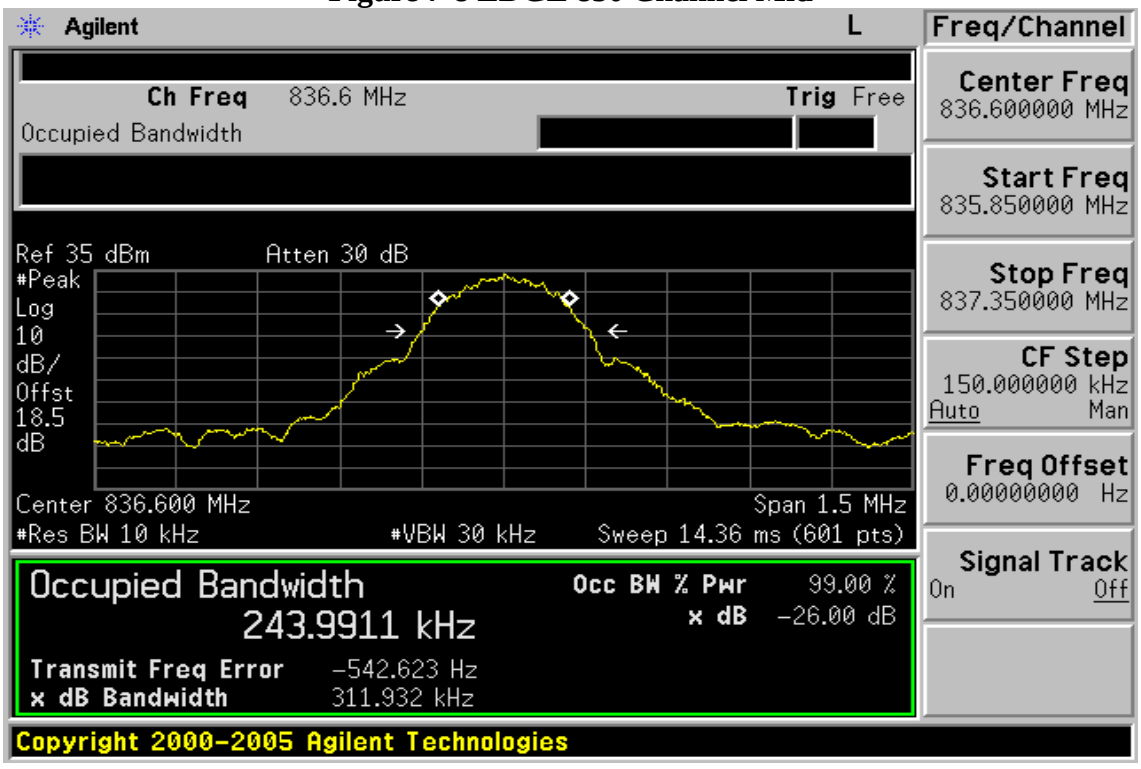


Figure 7-9: EDGE 850 Channel High

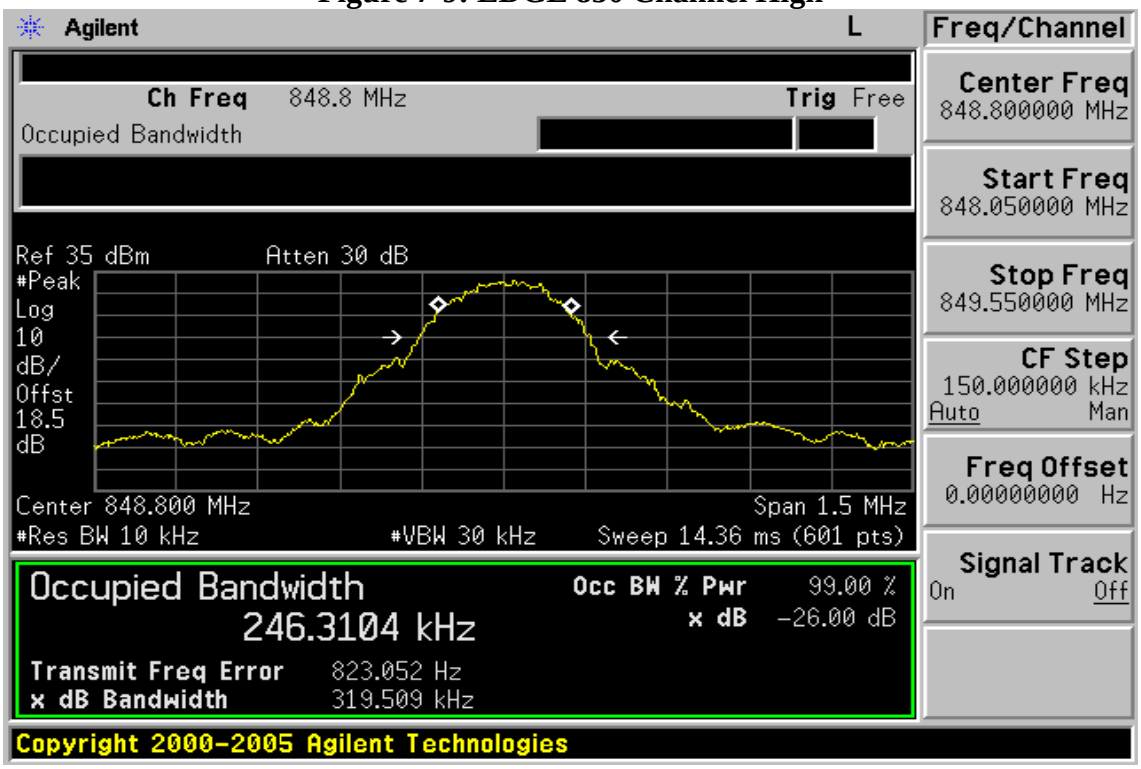


Figure 7-10: EDGE 1900 Channel Low

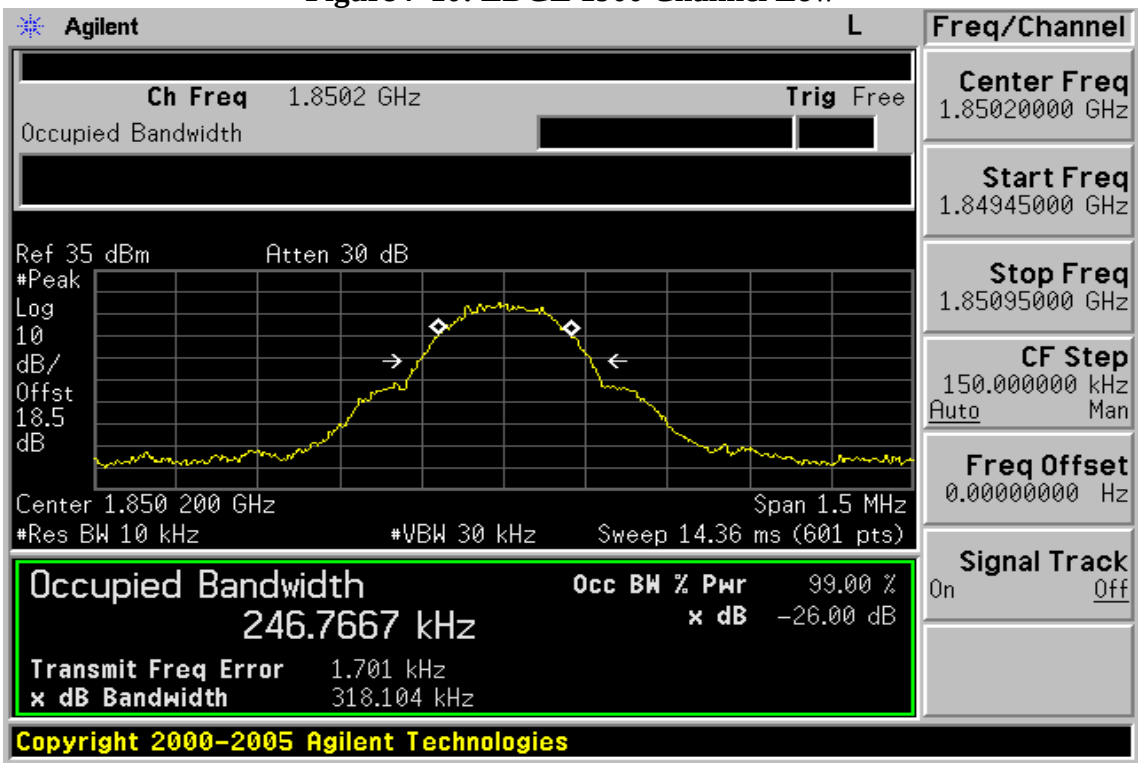


Figure 7-11 EDGE 1900 Channel Mid

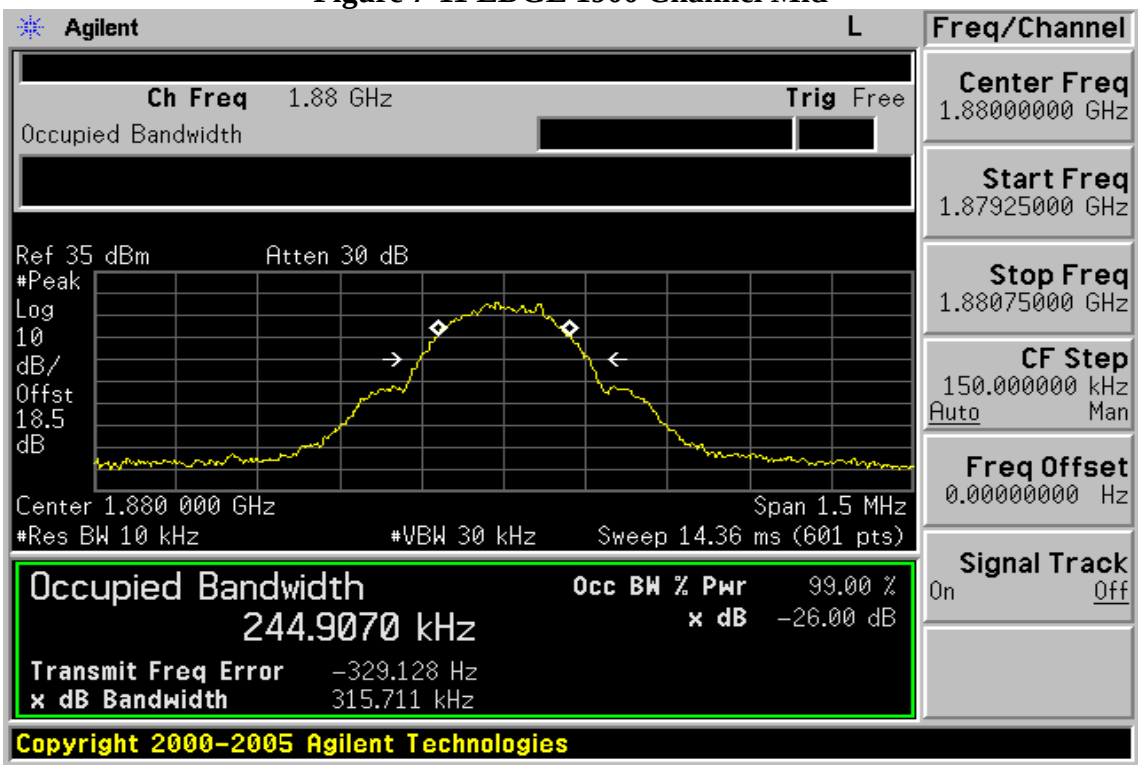


Figure 7-12: EDGE 1900 Channel High

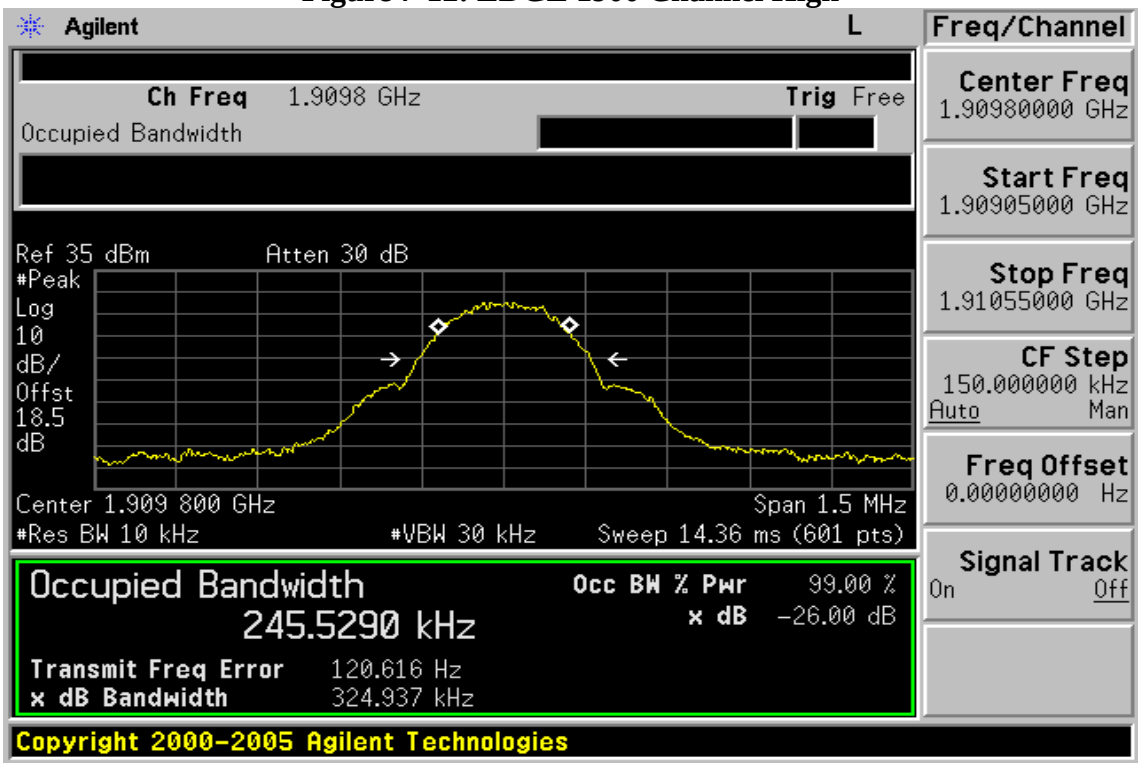


Figure 7-13 WCDMA B2 Channel Low

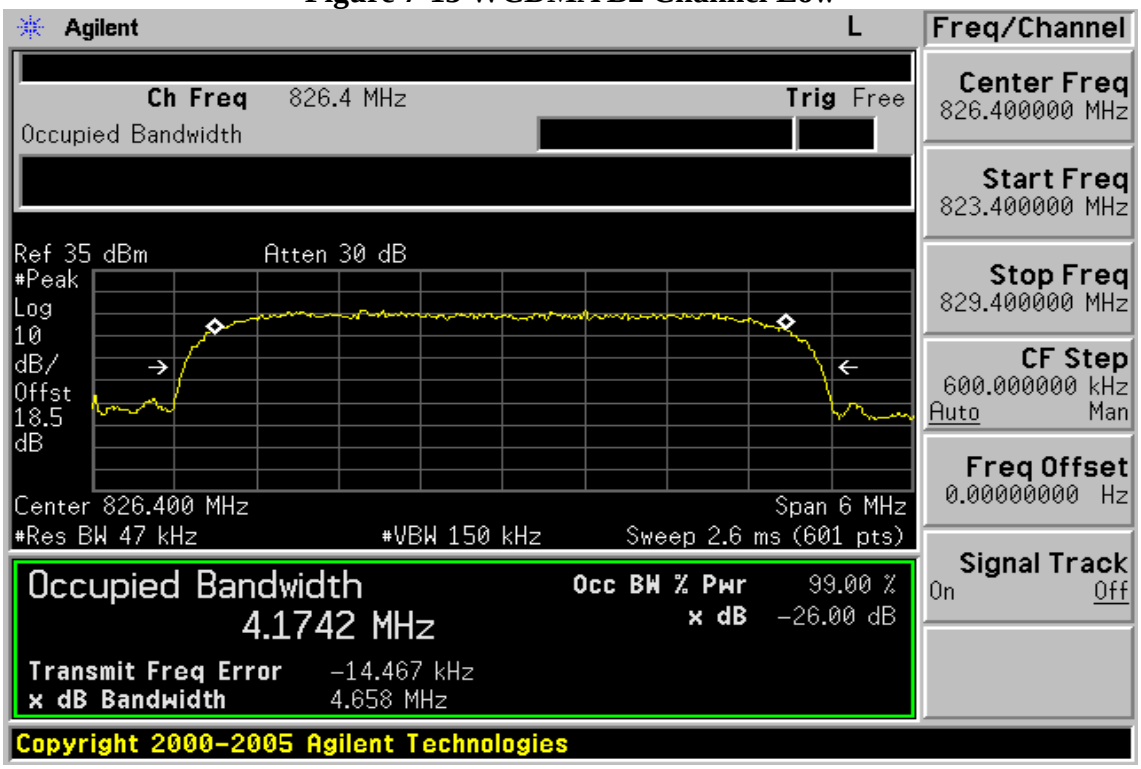


Figure 7-14 WCDMA B2 Channel Mid

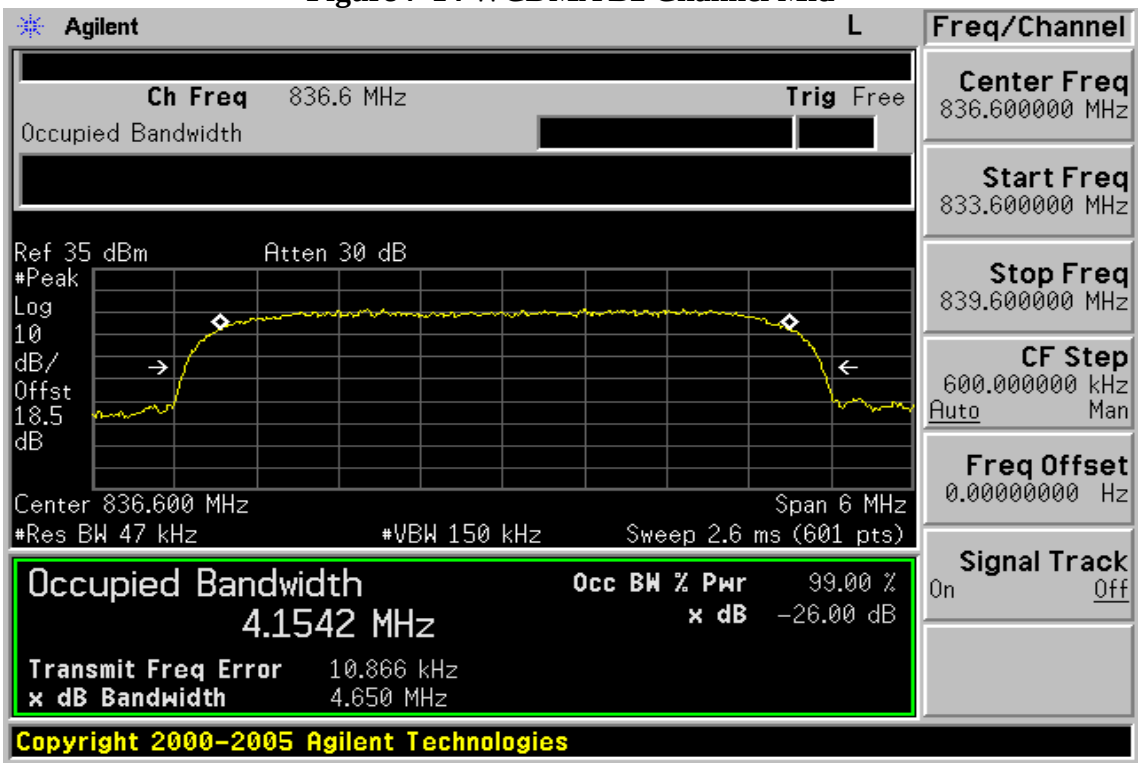


Figure 7-15: WCDMA B2 Channel High

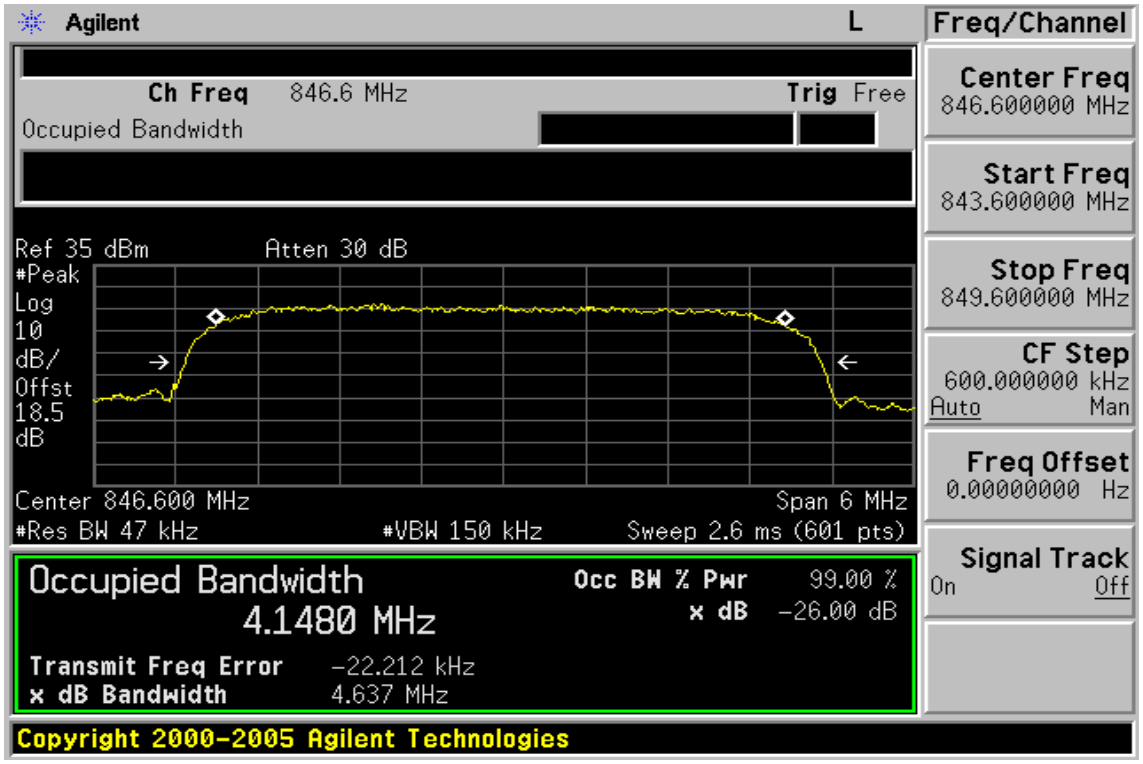


Figure 7-16: WCDMA B5 Channel Low

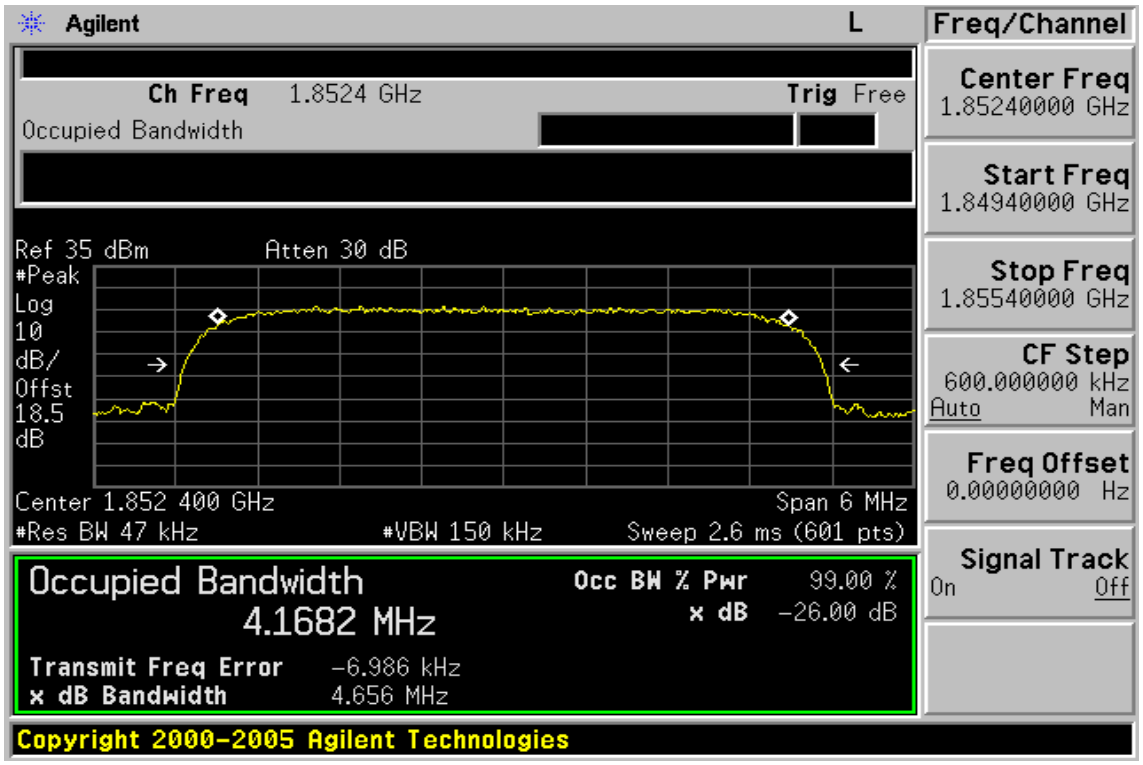


Figure 7-17 WCDMA B5 Channel Mid

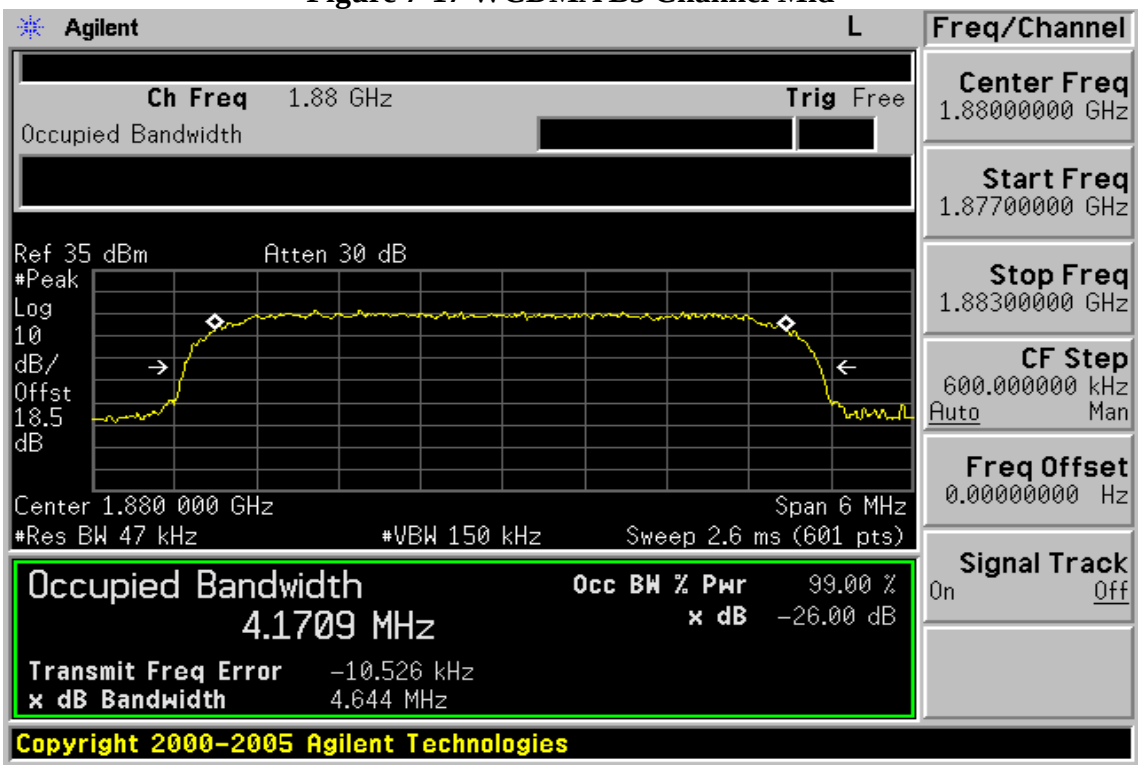


Figure 7-18: WCDMA B5 Channel High

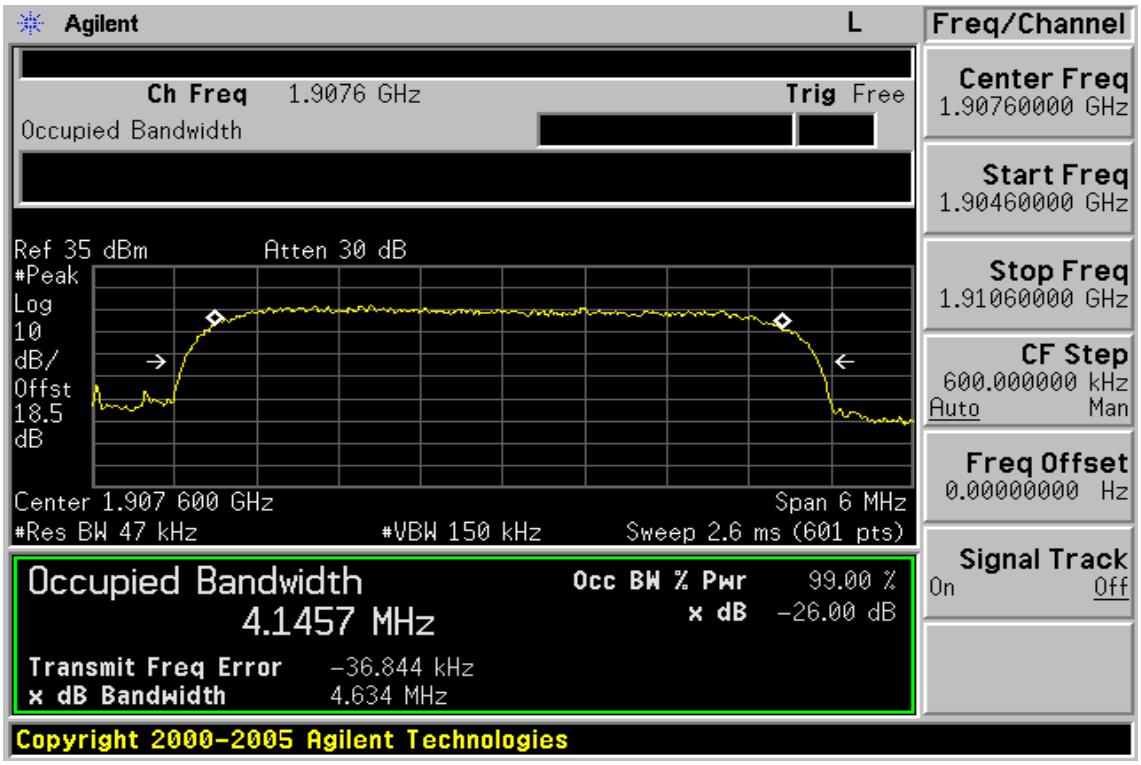


Figure 7-19 HSUPA B2 Channel Low

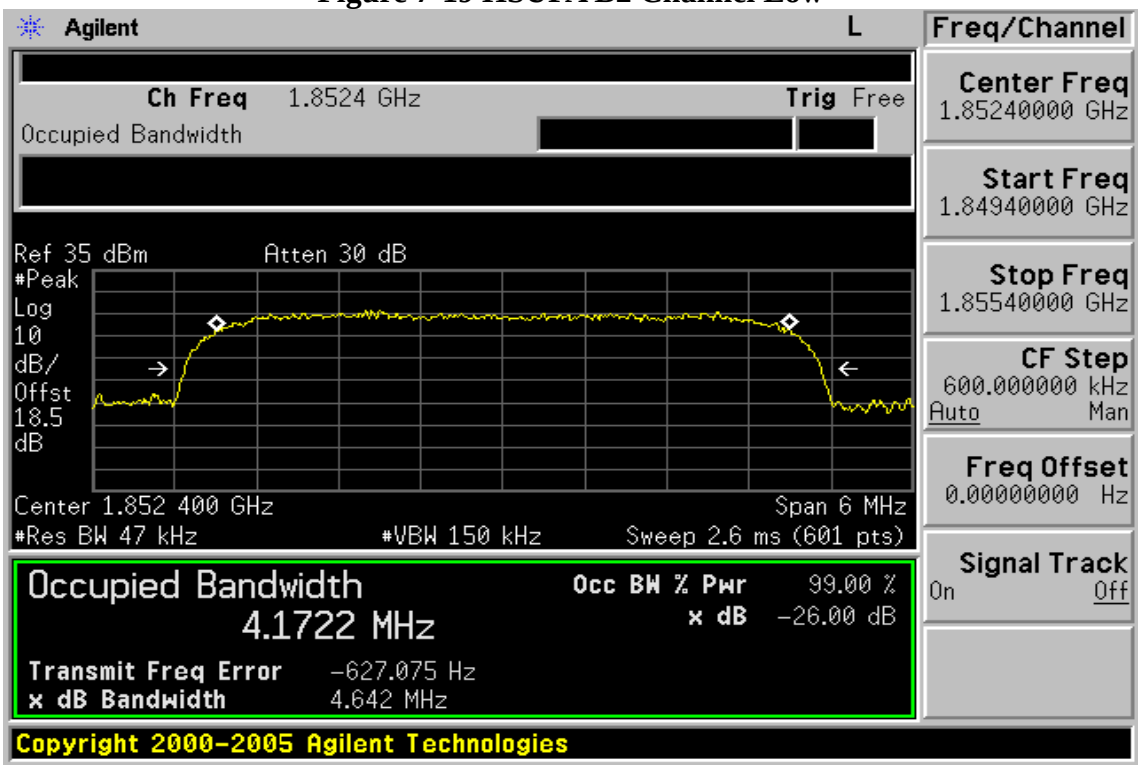


Figure 7-20 HSUPA B2 Channel Mid

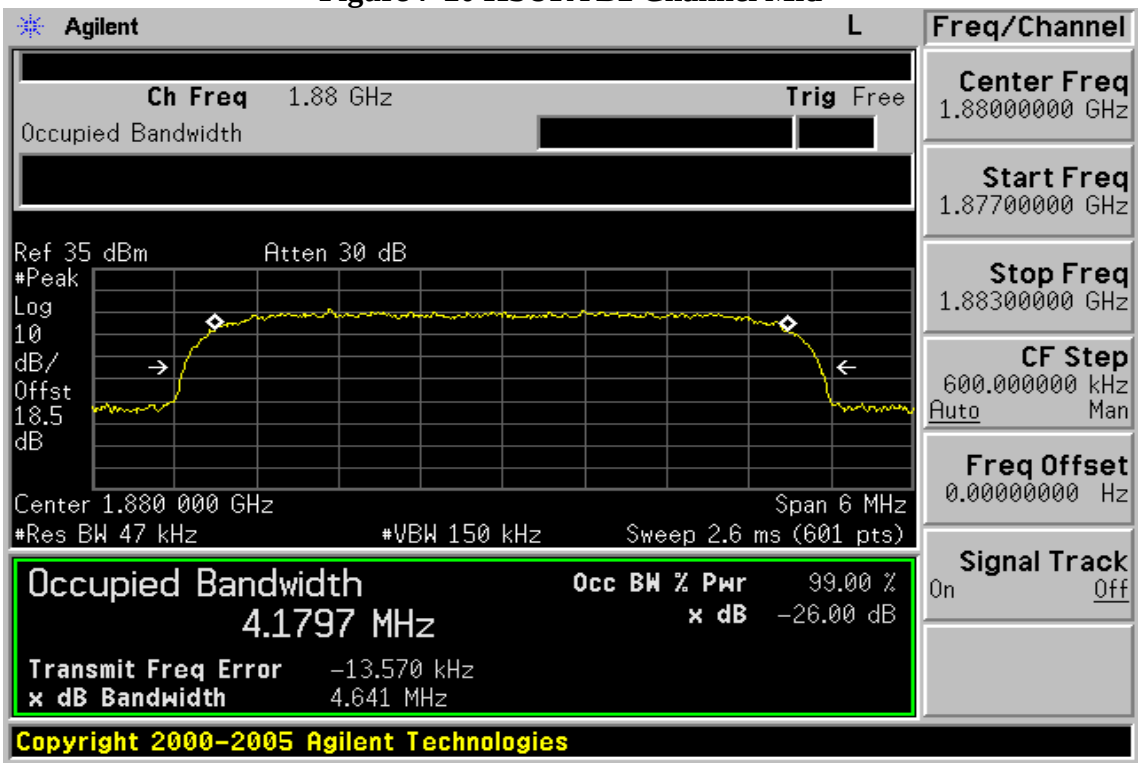


Figure 7-21: HSUPA B2 Channel High

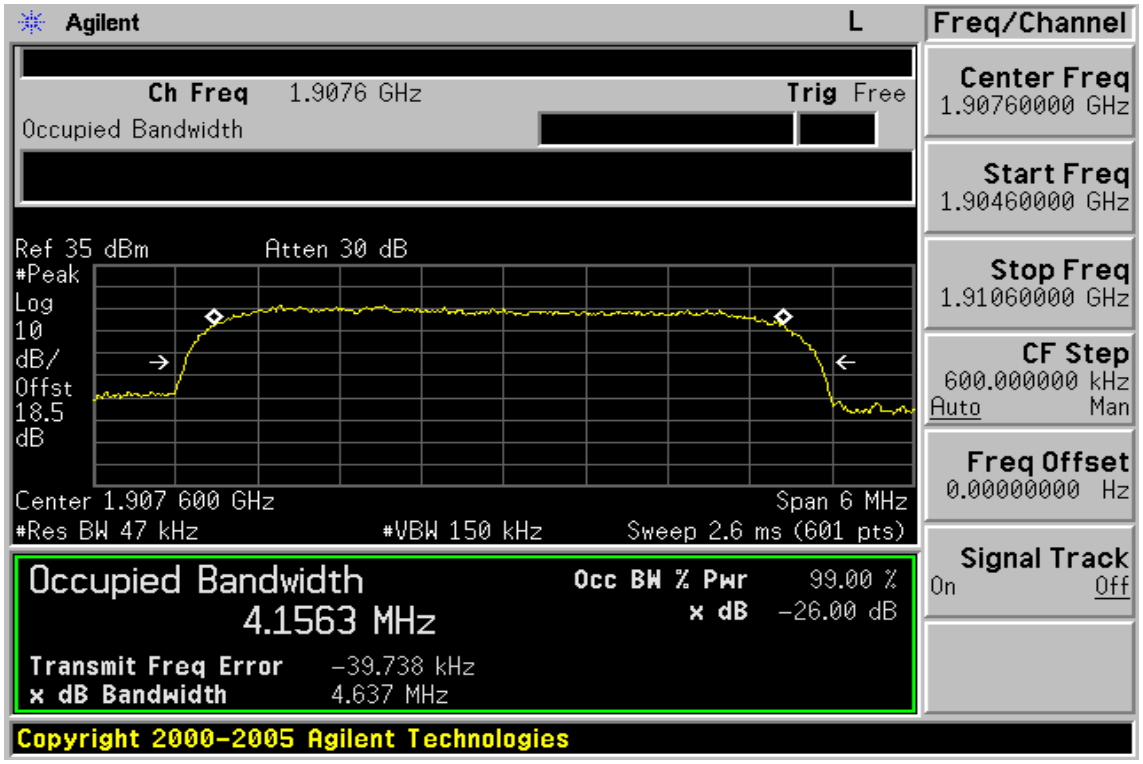


Figure 7-22: HSUPA B5 Channel Low

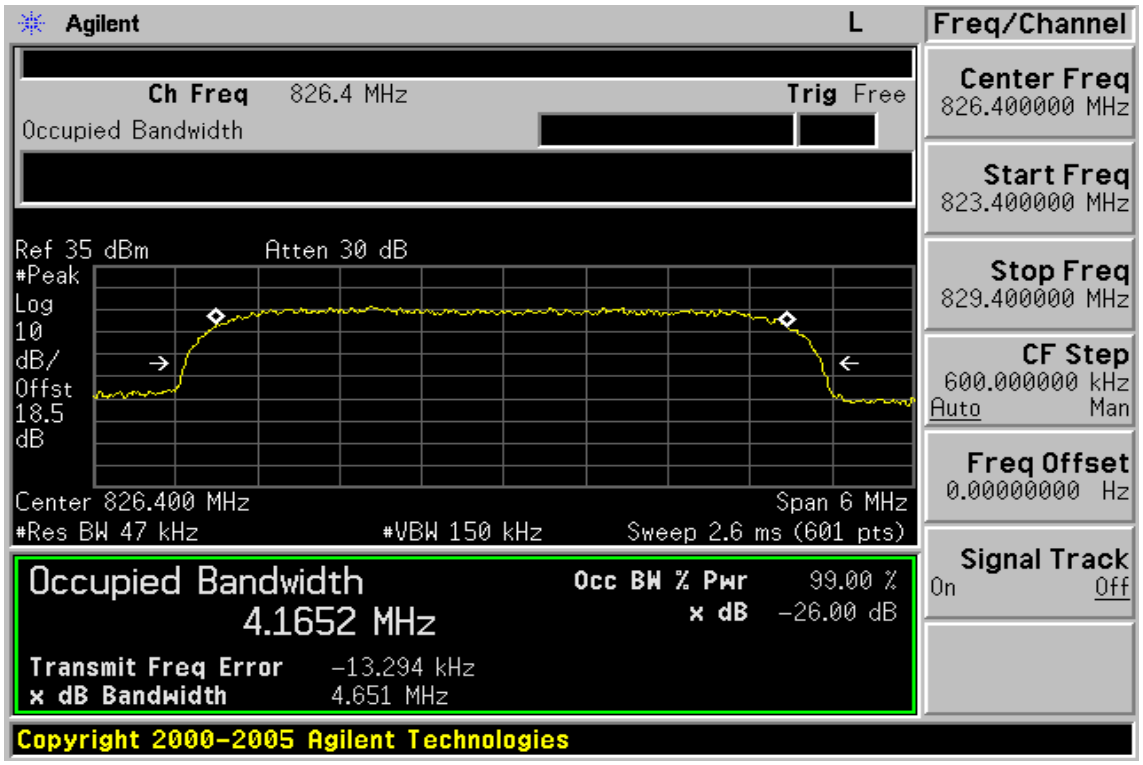


Figure 7-23 HSUPA B5 Channel Mid

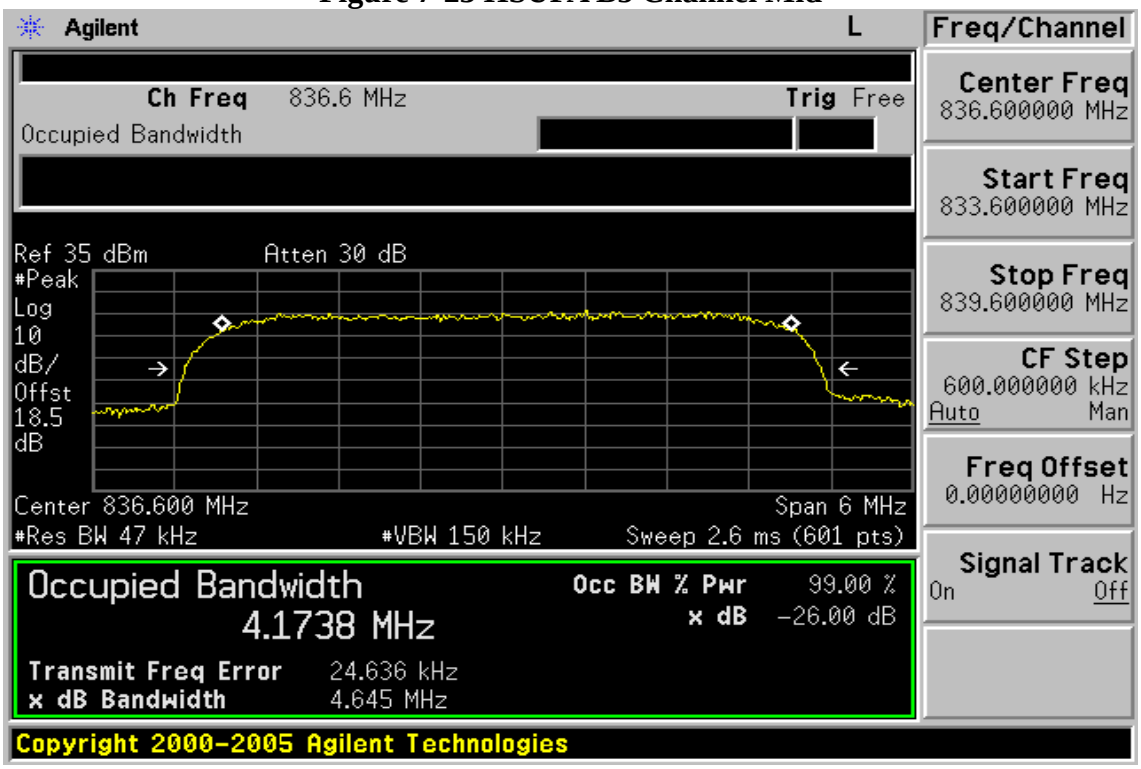


Figure 7-24: HSUPA B5 Channel High

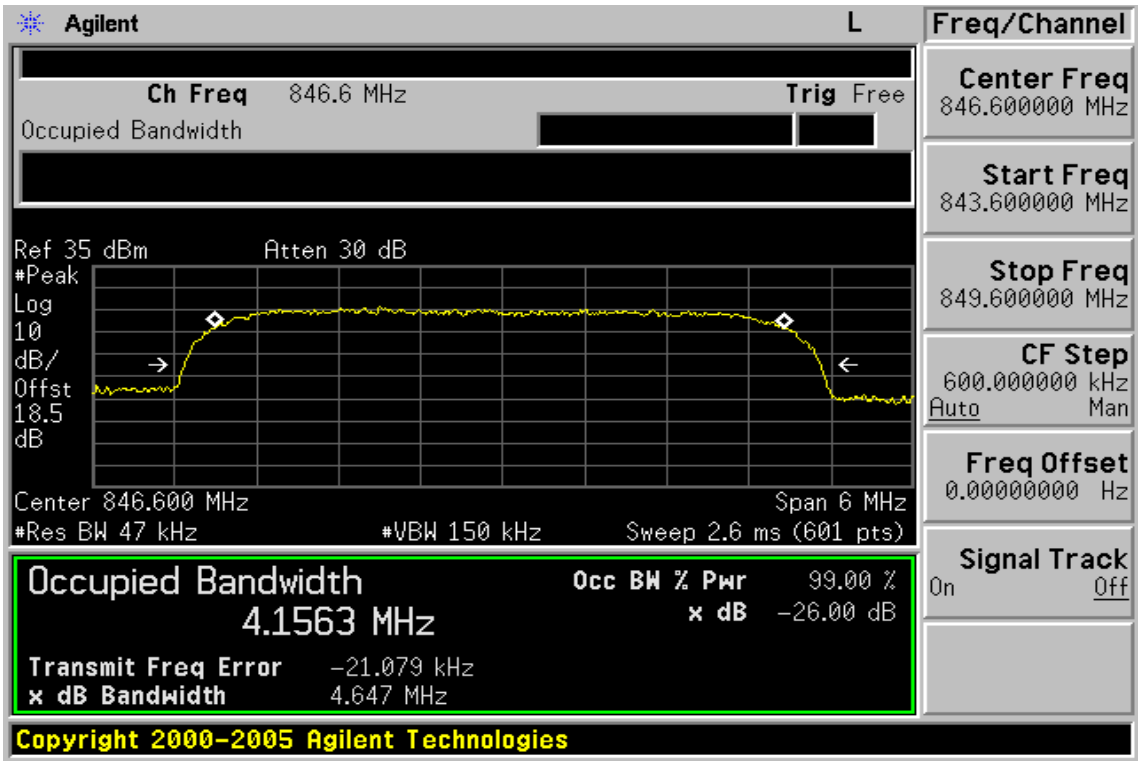


Figure 7-25 HSDPA B2 Channel Low

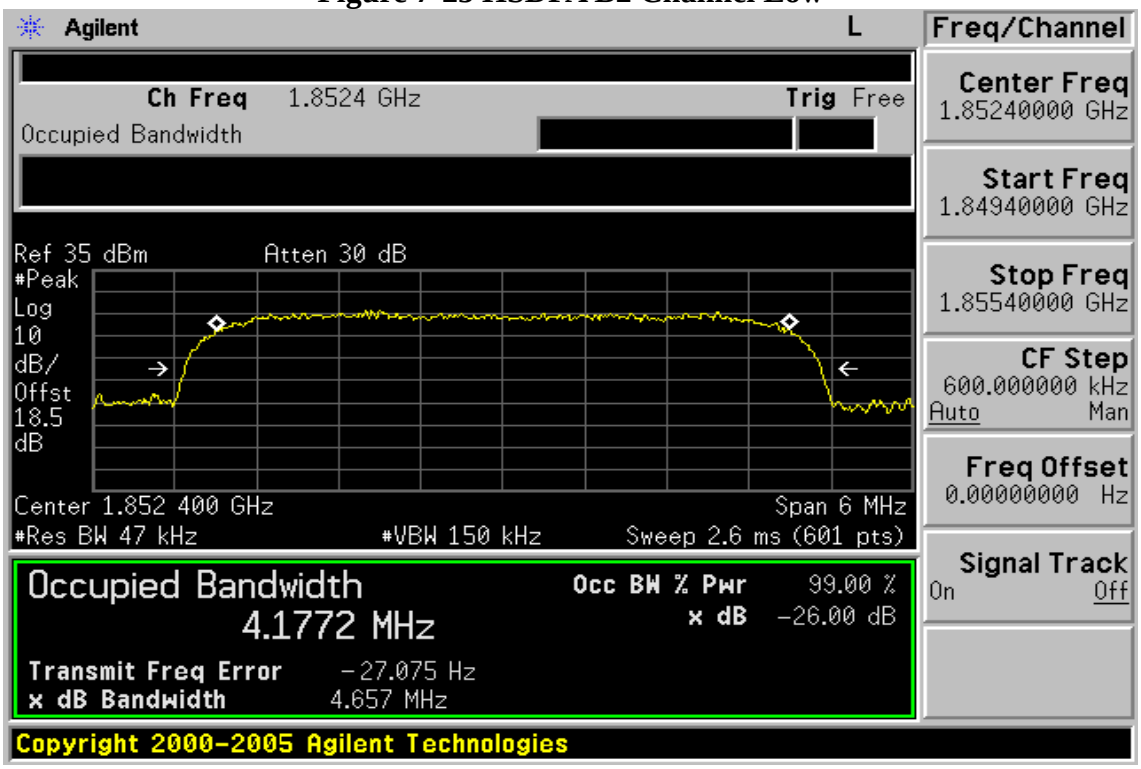


Figure 7-26 HSDPA B2 Channel Mid

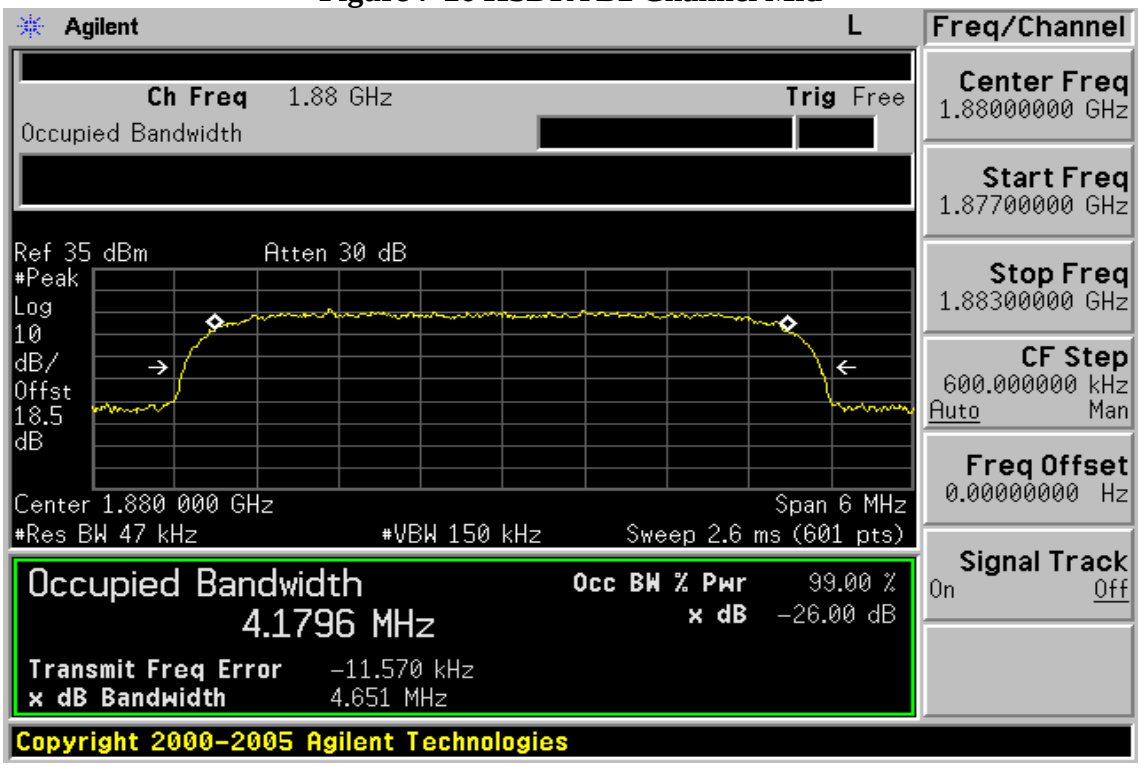


Figure 7-27: HSDPA B2 Channel High

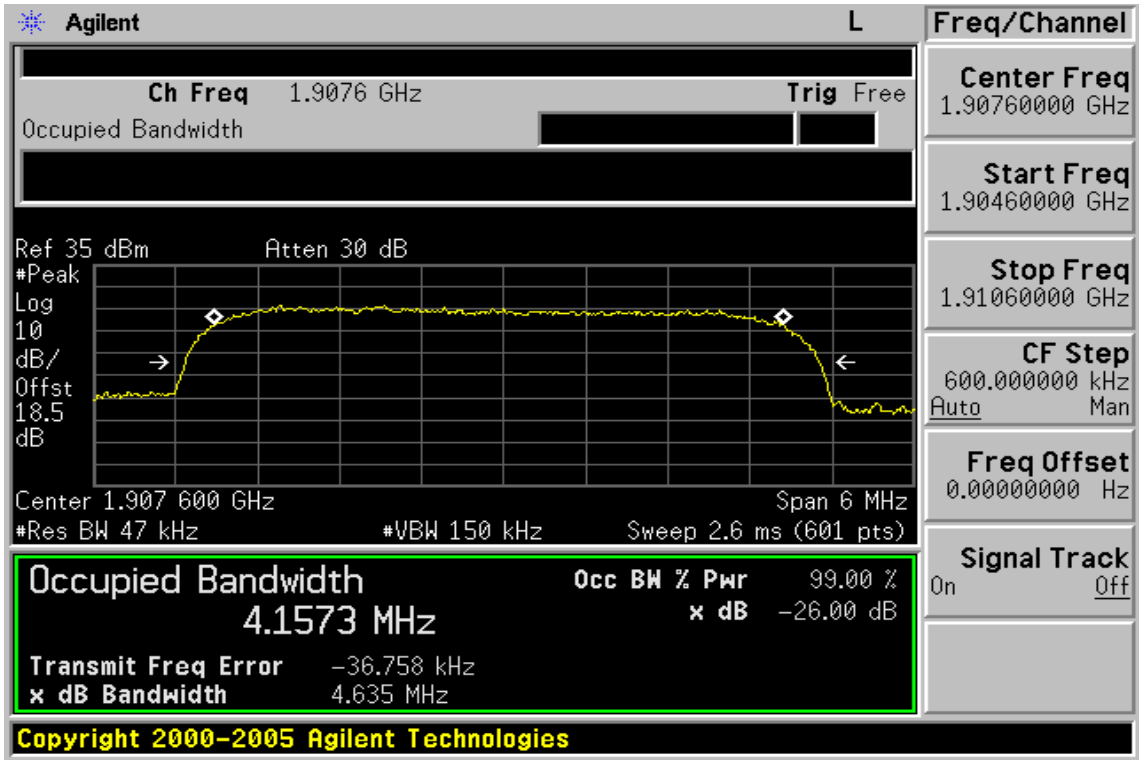


Figure 7-28: HSDPA B5 Channel Low

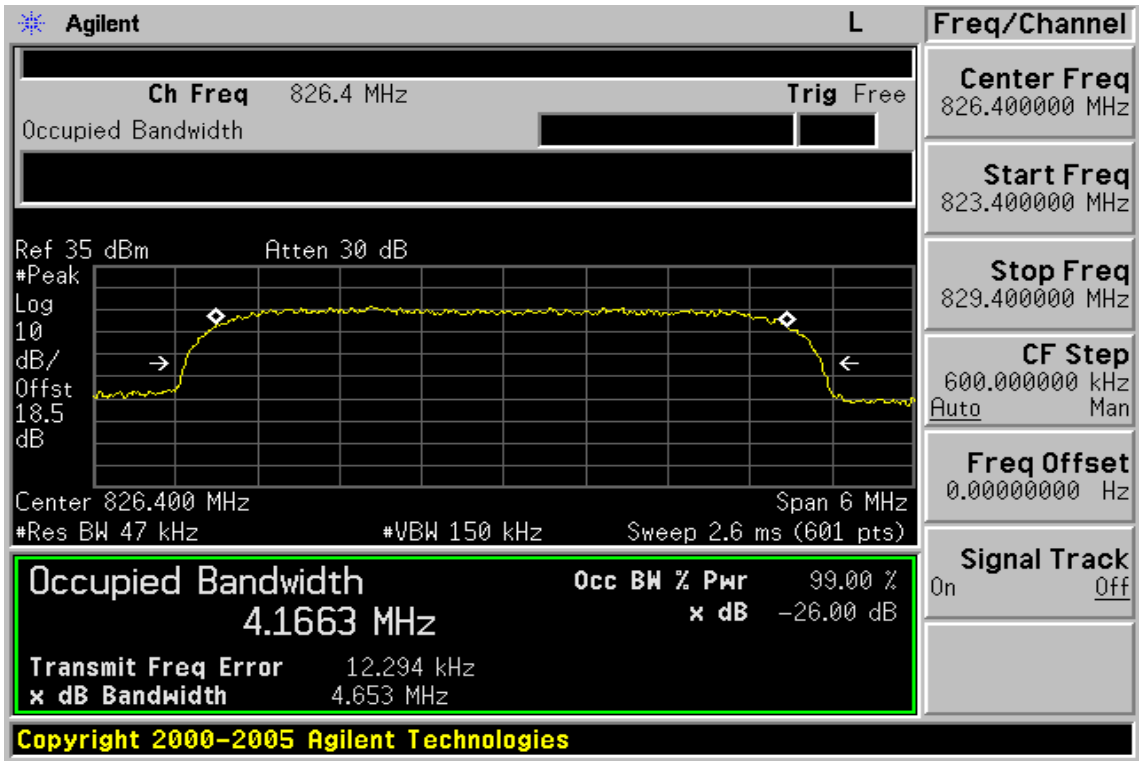


Figure 7-29 HSDPA B5 Channel Mid

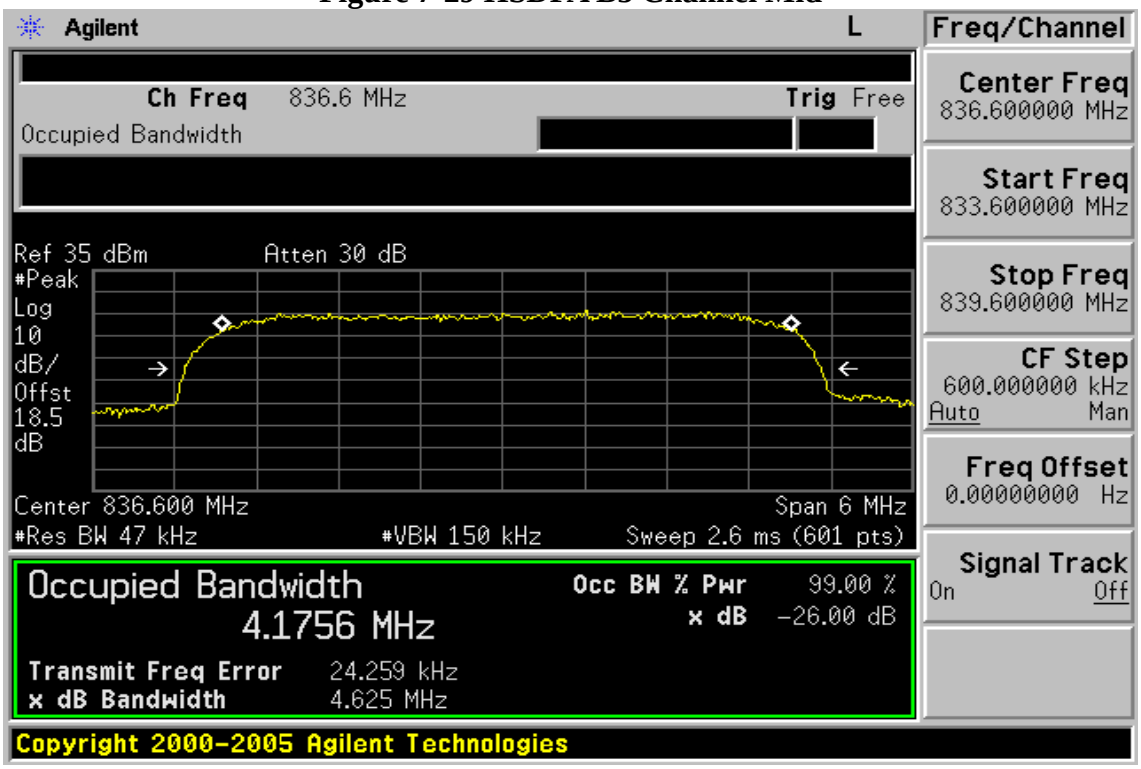
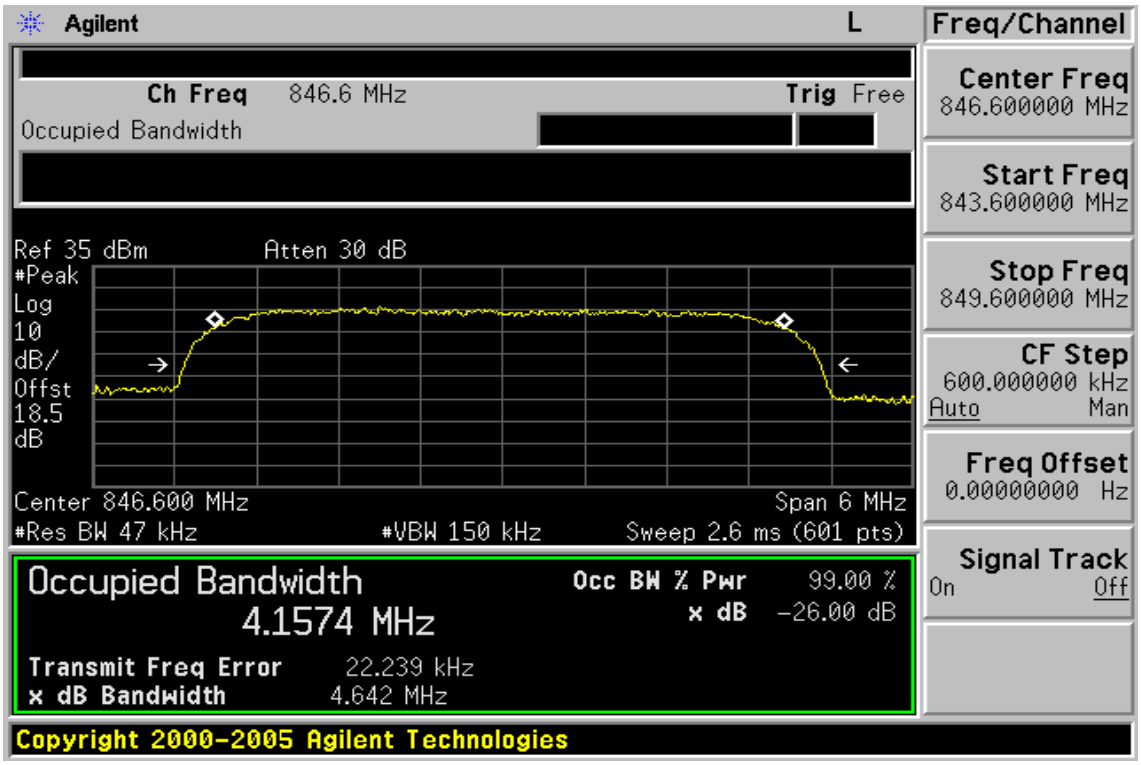


Figure 7-30: HSDPA B5 Channel High



8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

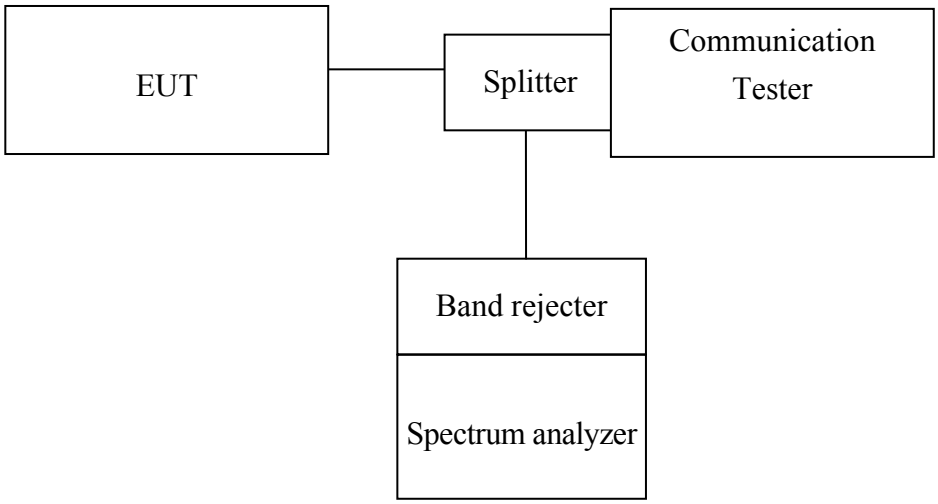
8.1. Standard Applicable:

According to FCC §2.1051.

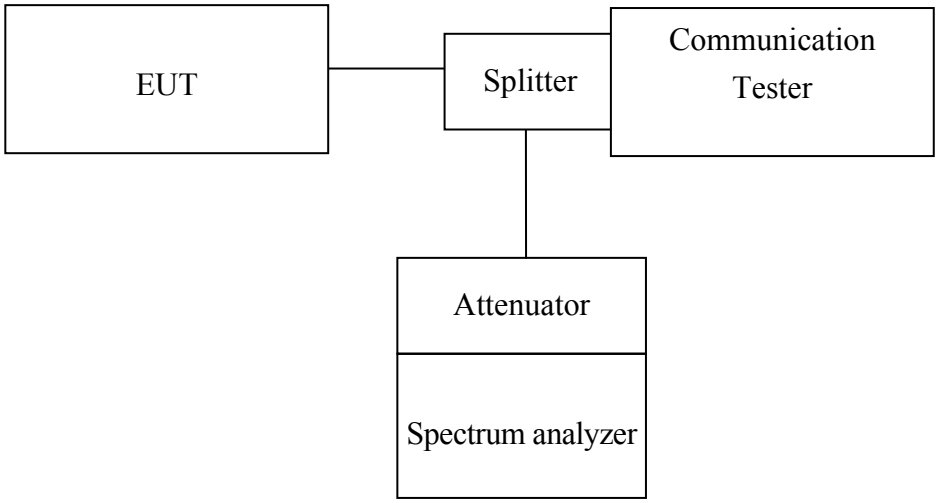
FCC §22.917(a),§24.238(a) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power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

8.2. Test SET-UP:

Out of band emission



Band Edge



8.3. Measurement Procedure:

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

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

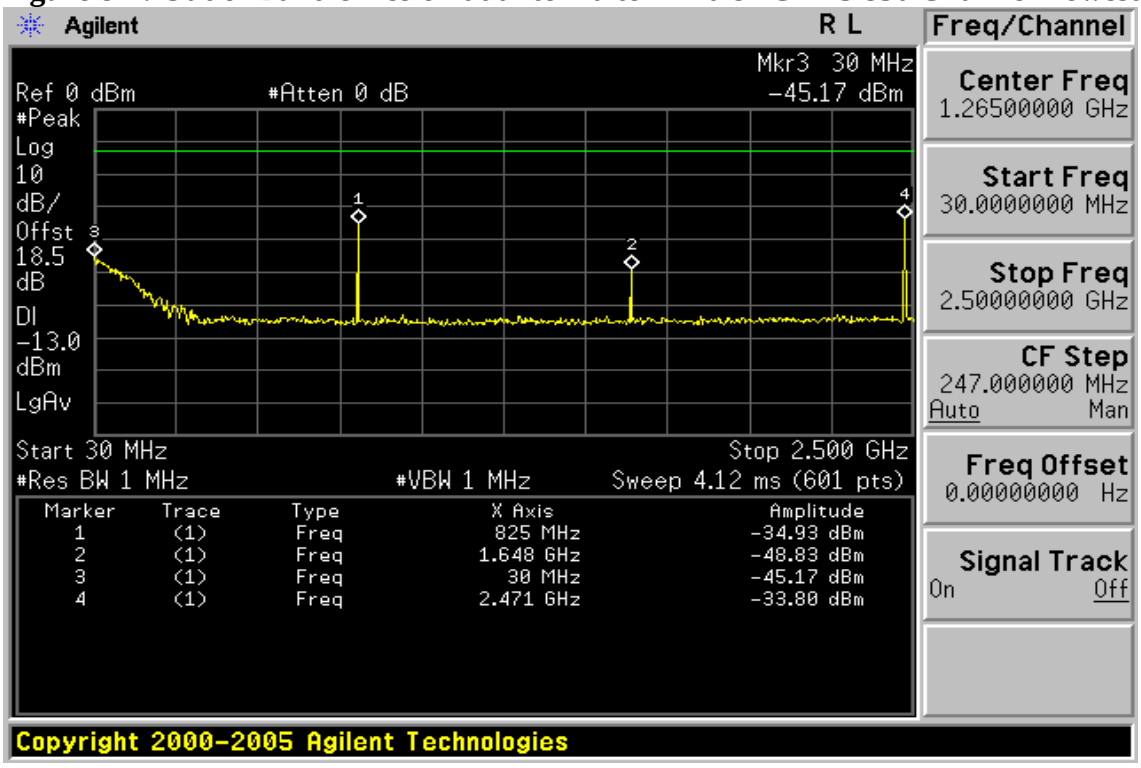
Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

8.5. Measurement Result:

Figure 8-1: Out of Band emission at antenna terminals– GPRS 850 Channel Lowest



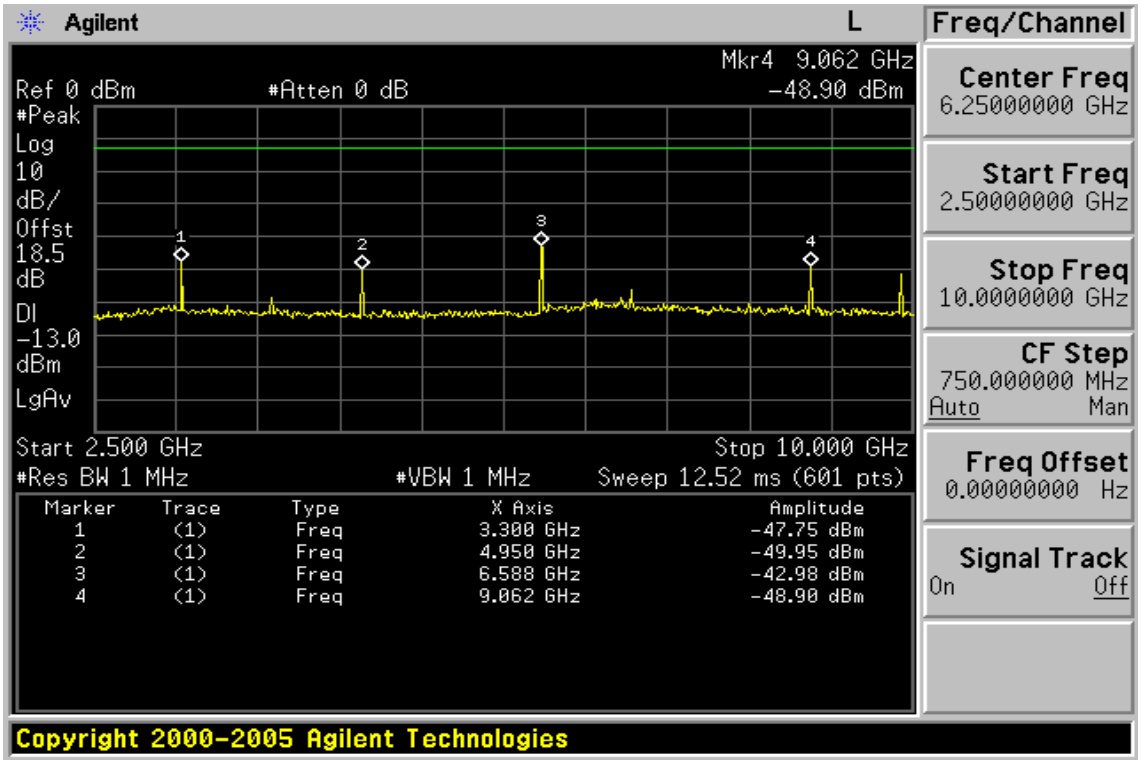
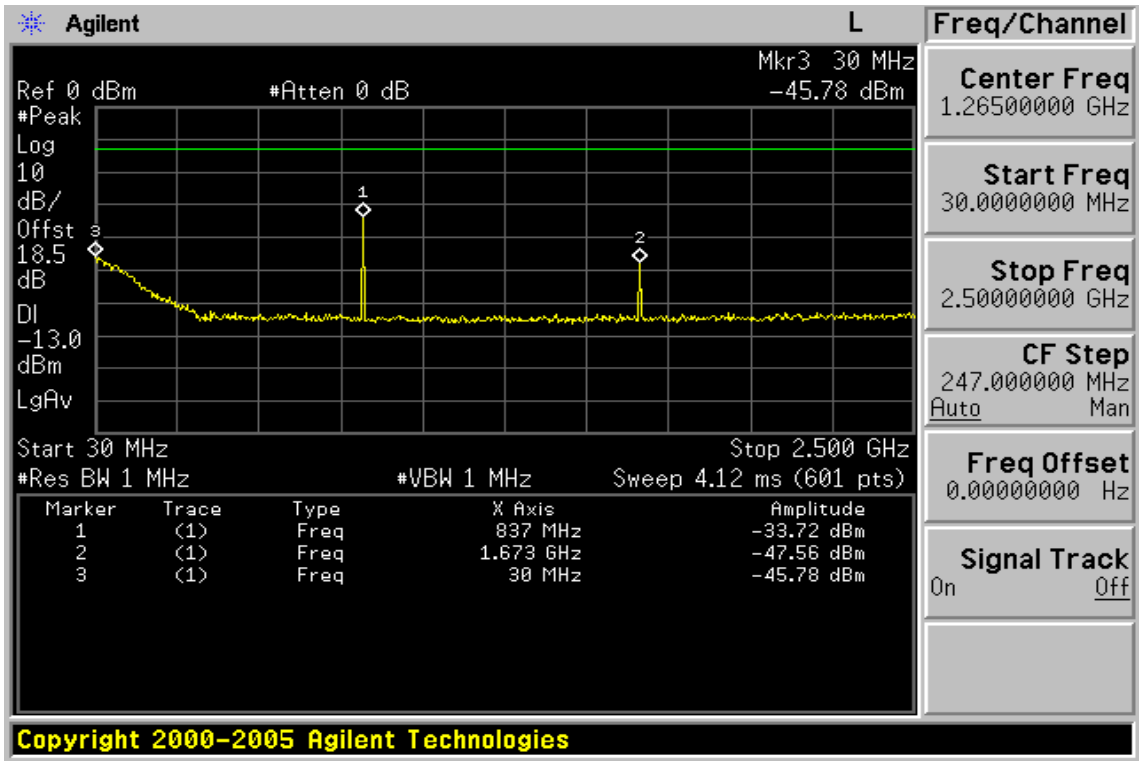


Figure 8-2: Out of Band emission at antenna terminals –GPRS 850 Channel Mid



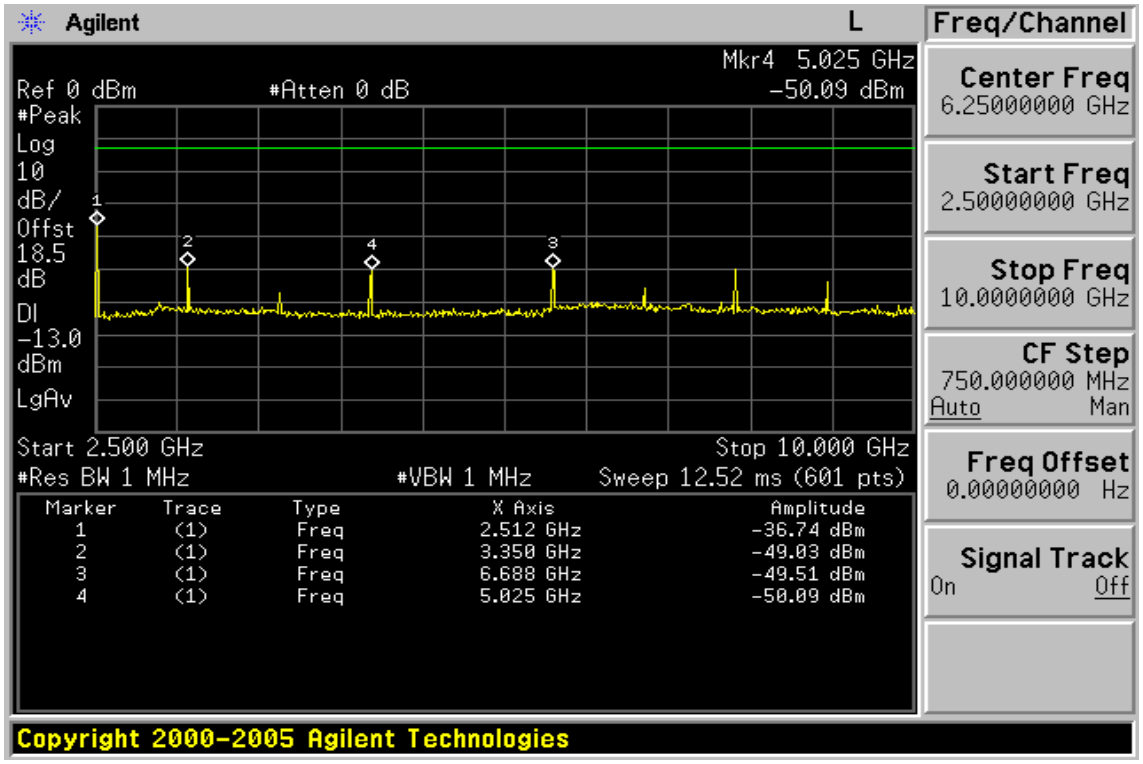
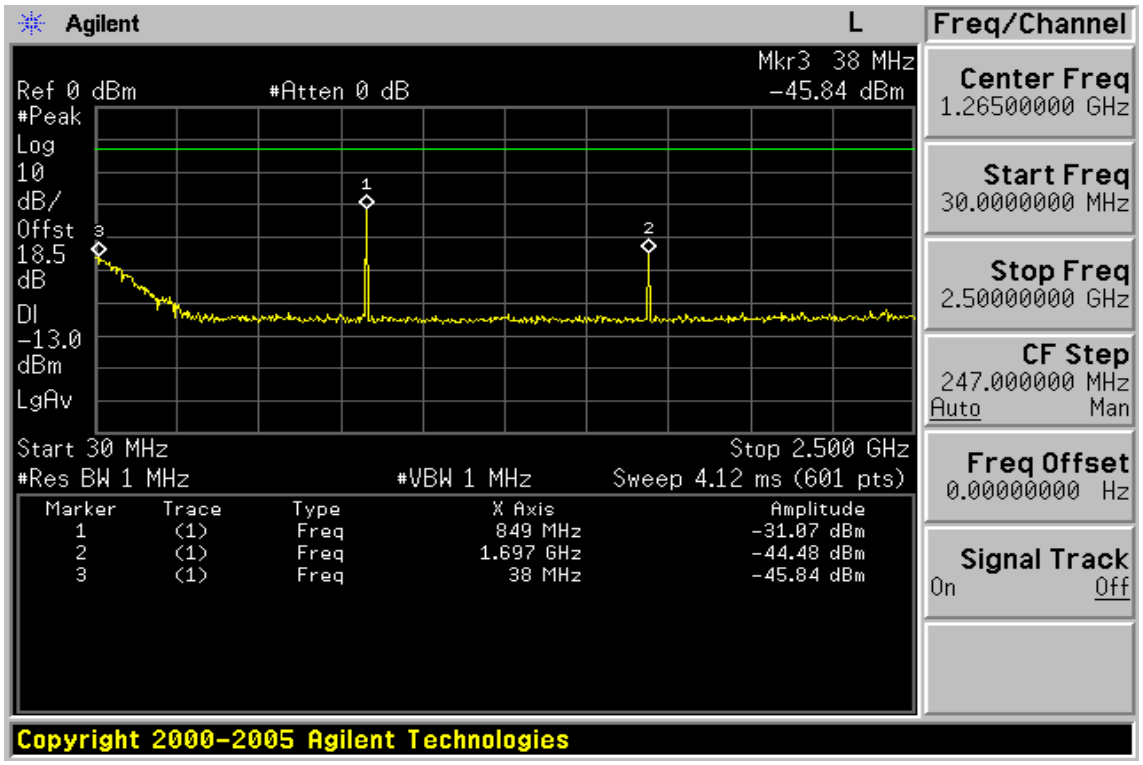


Figure 8-3: Out of Band emission at antenna terminals–GPRS 850 Channel Highest



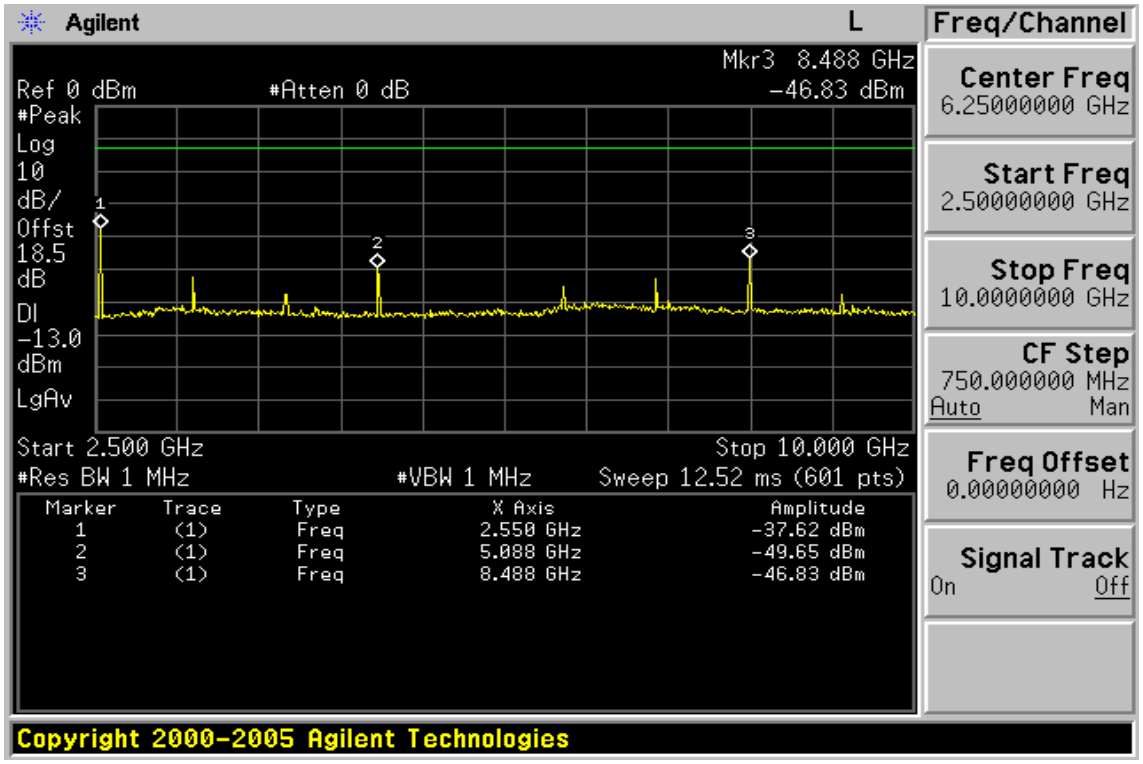


Figure 8-4: Band edge emission at antenna terminals –GPRS 850 Channel Lowest

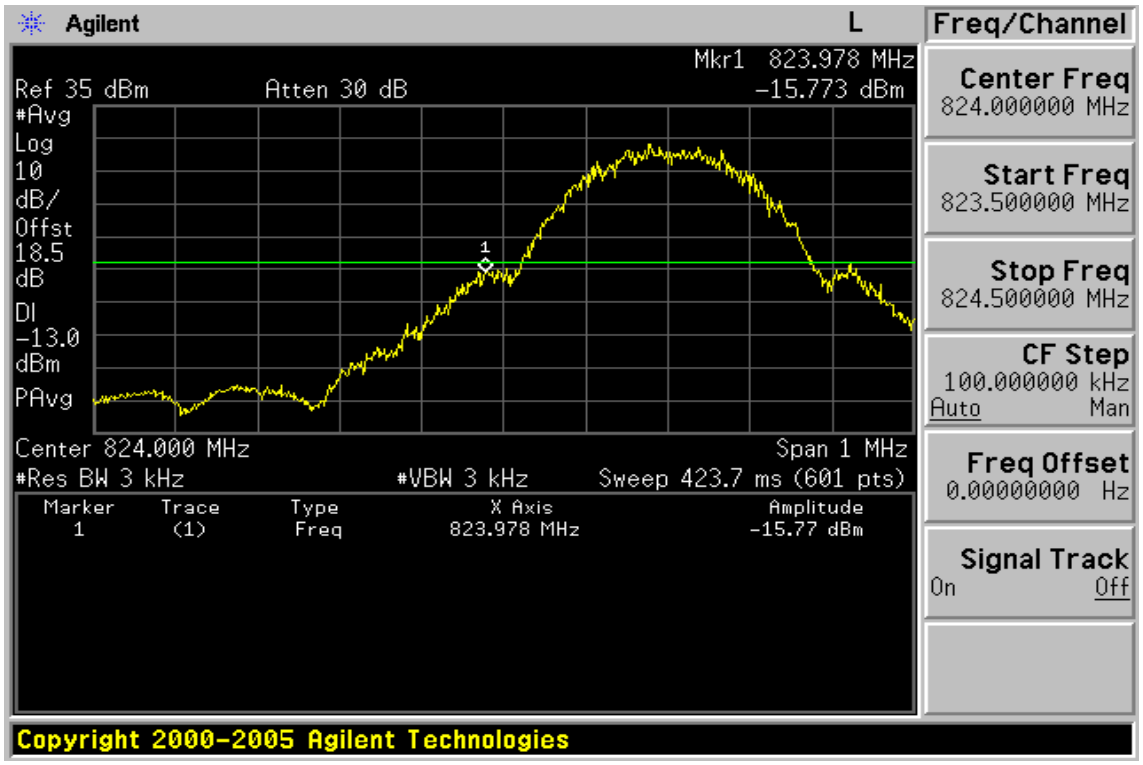


Figure 8-5: Band edge emission at antenna terminals –GPRS 850 Channel Highest

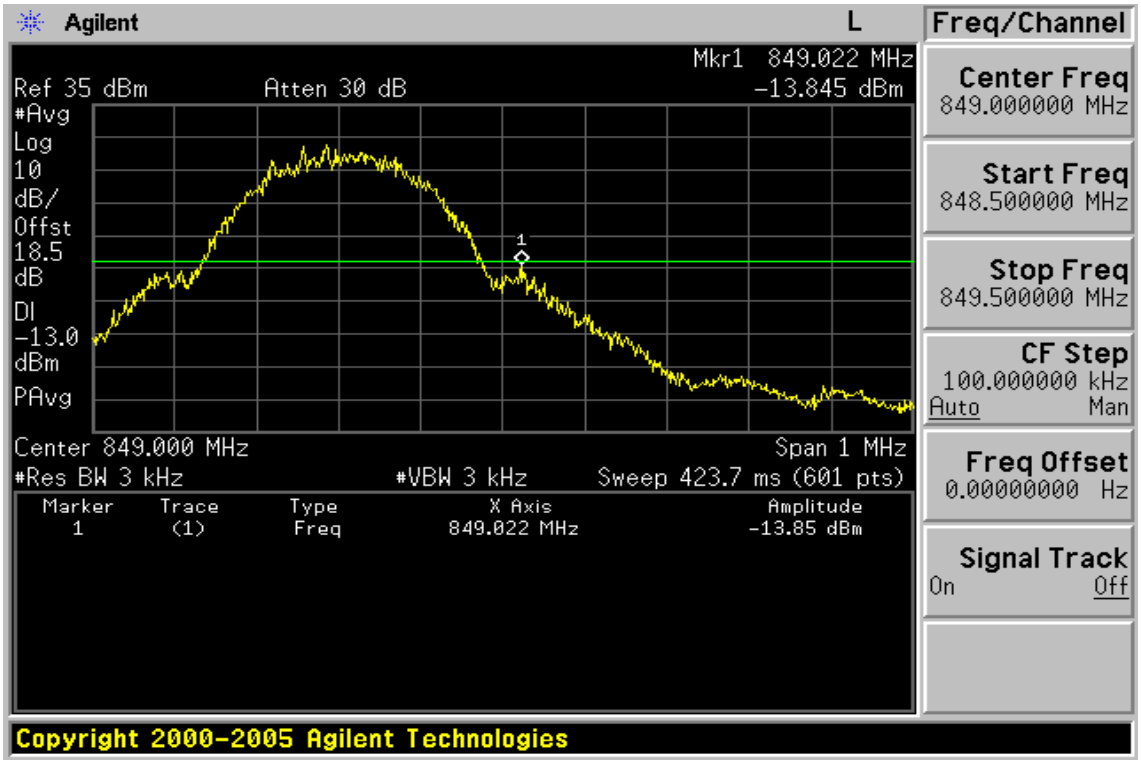
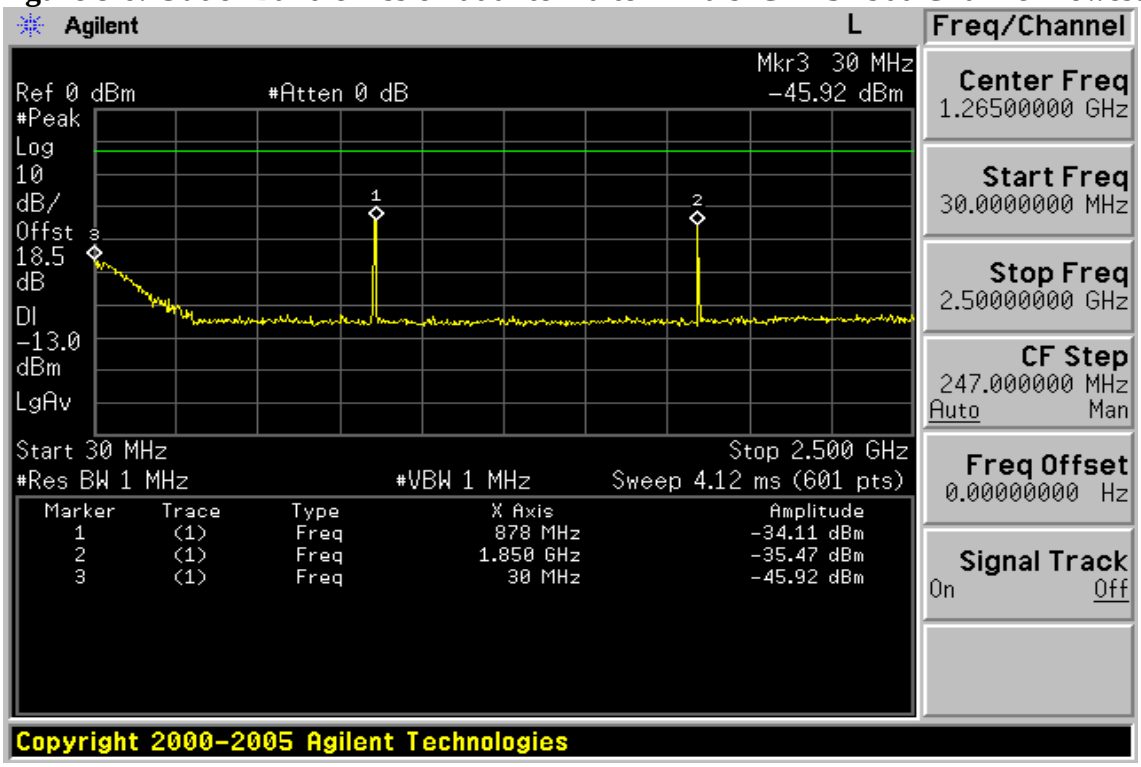


Figure 8-6: Out of Band emission at antenna terminals–GPRS 1900 Channel Lowest



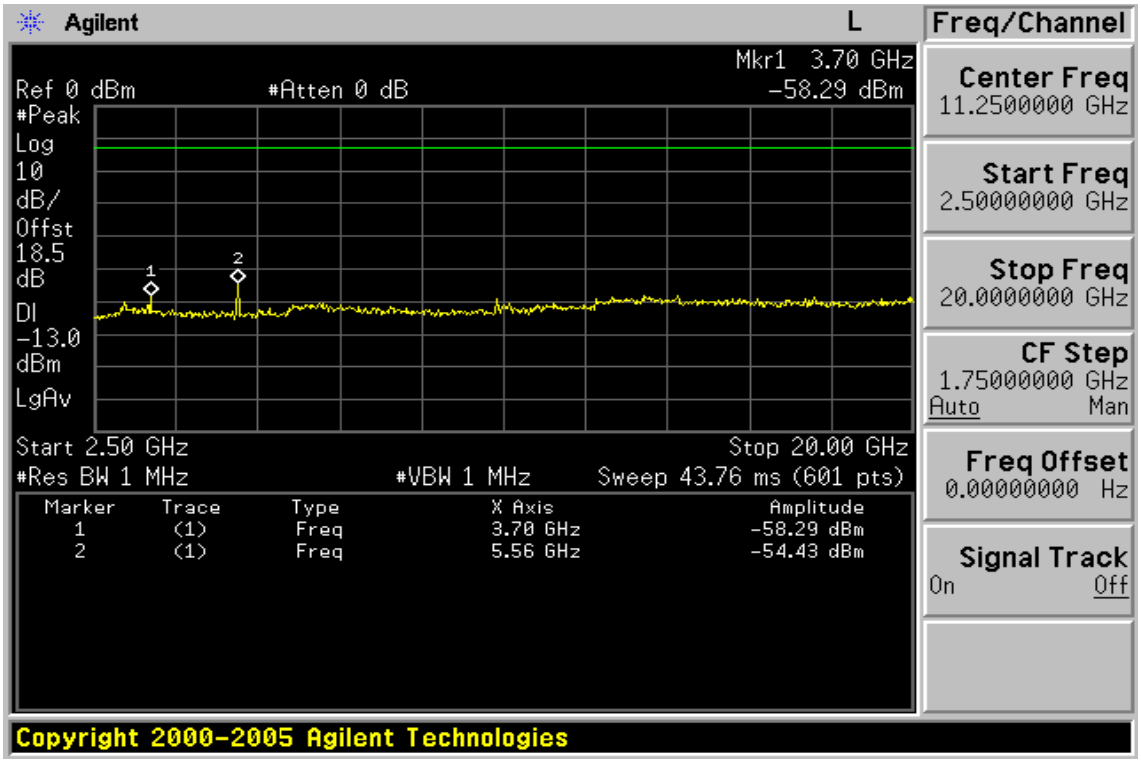
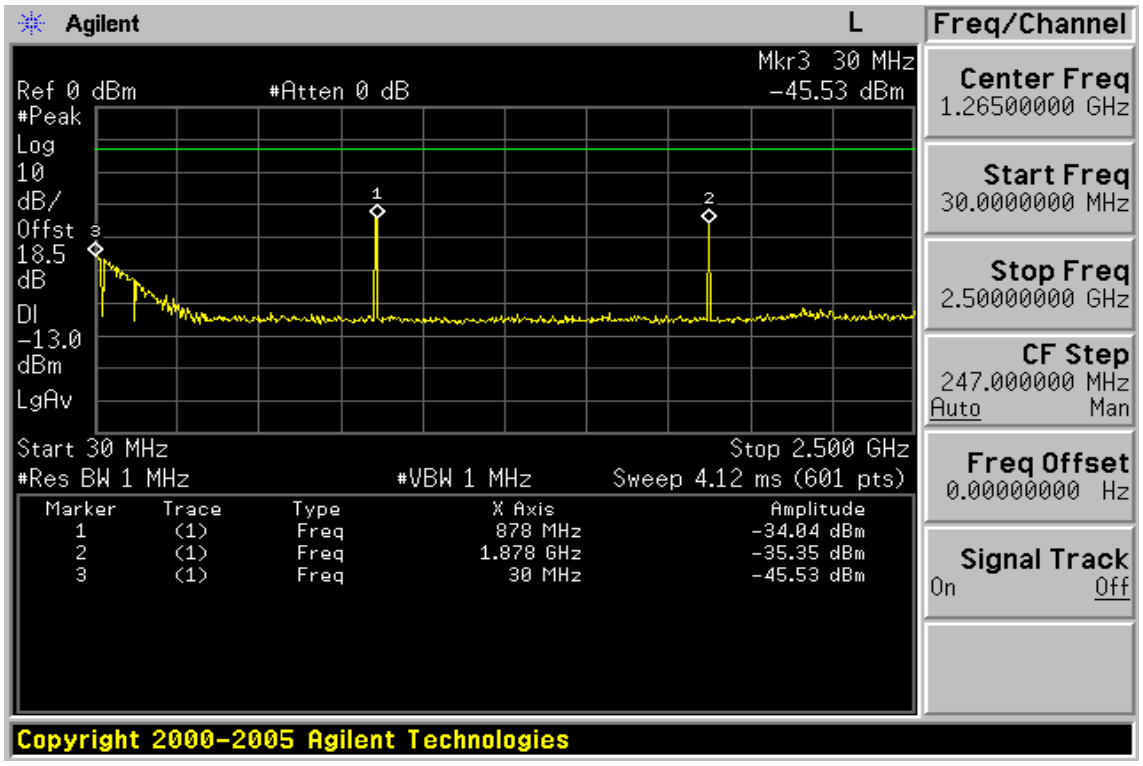


Figure 8-7: Out of Bandd emission at antenna terminals –GPRS 1900 Channel Mid



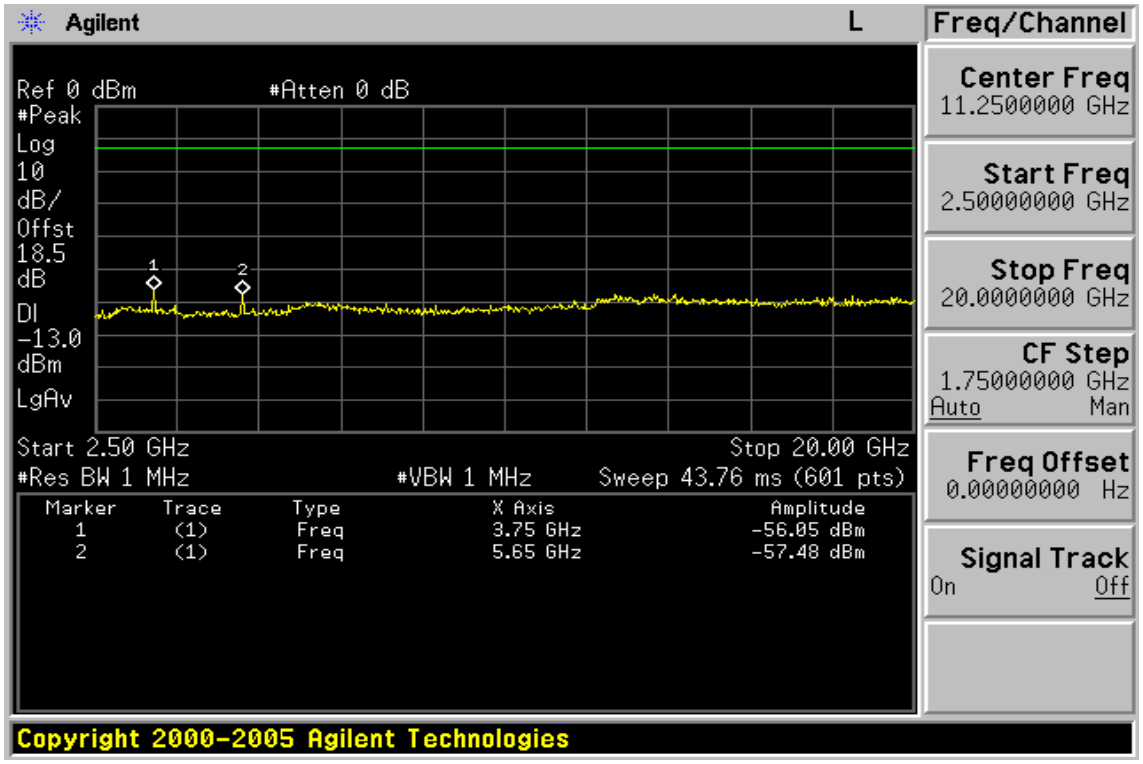
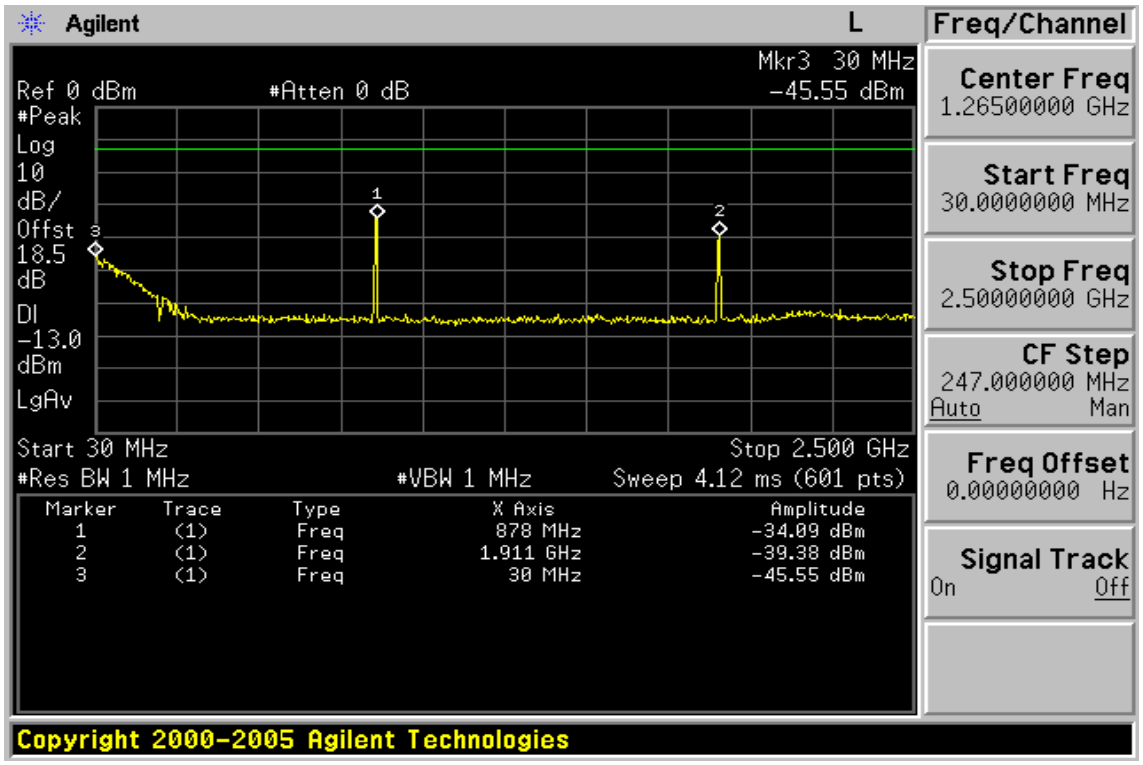


Figure 8-8: Out of Band emission at antenna terminals–GPRS 1900 Channel Highest



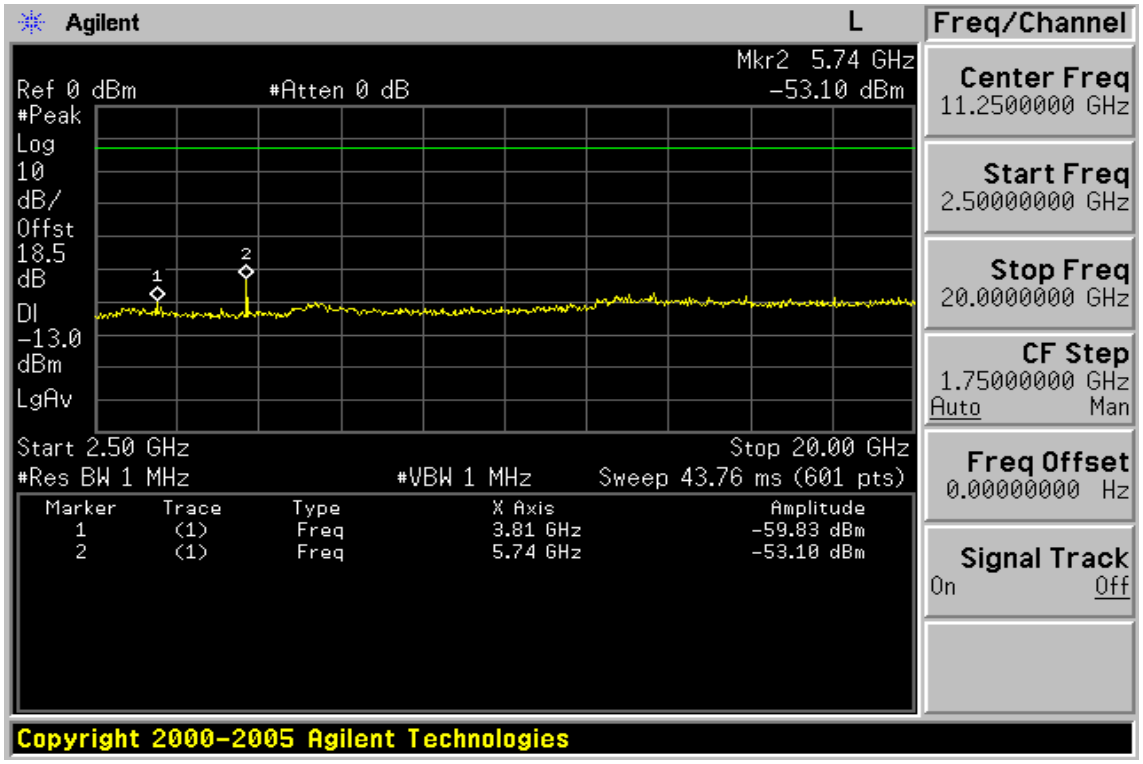


Figure 8-9: Bad edge emission at antenna terminals –GPRS 1900 Channel Lowest

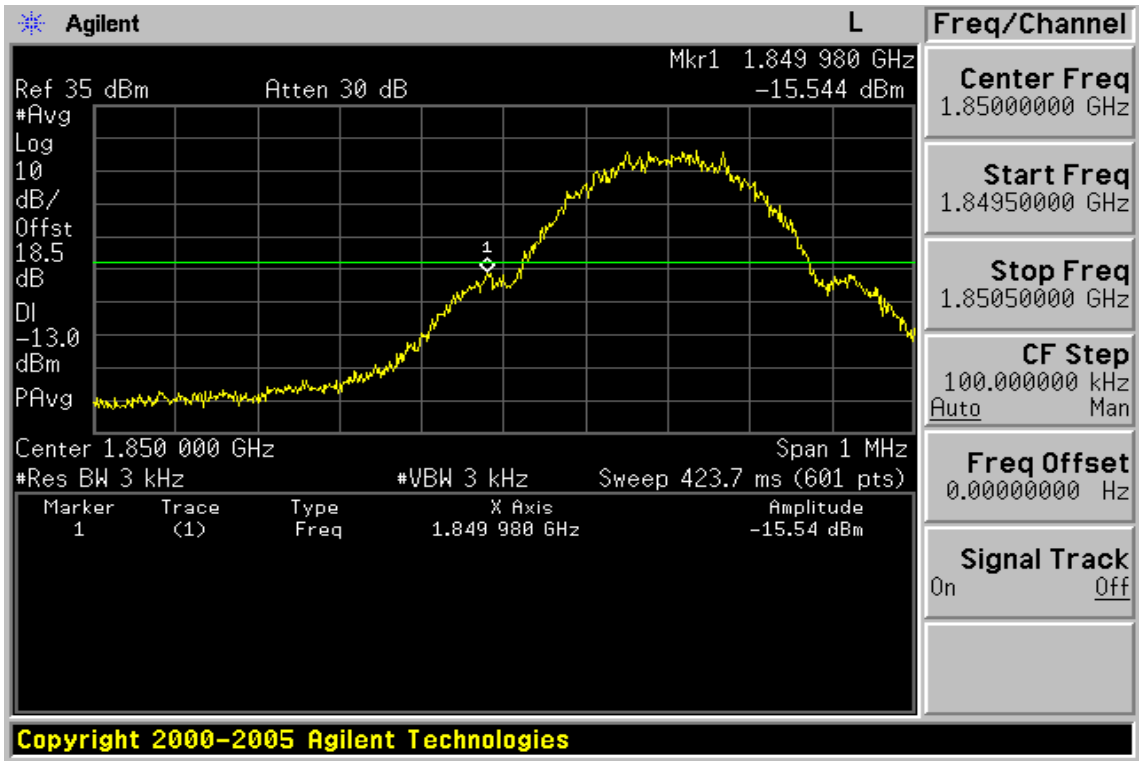


Figure 8-10: Band edge emission at antenna terminals –GPRS 1900 Channel Highest

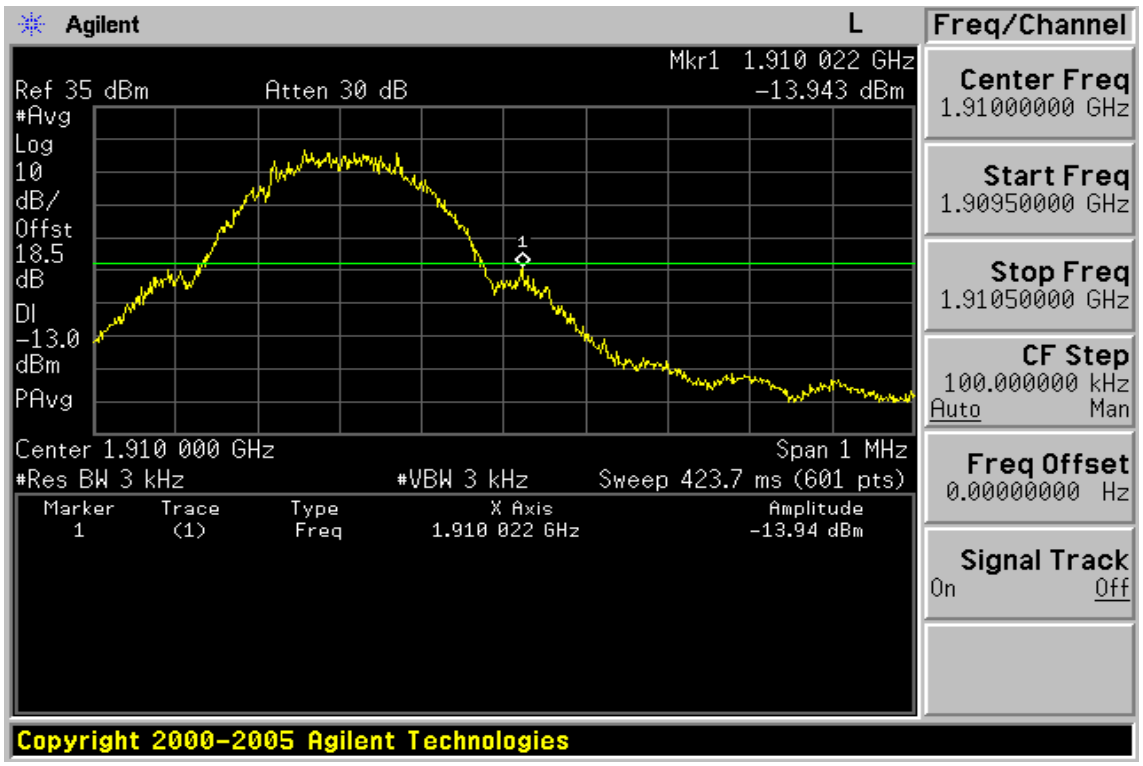
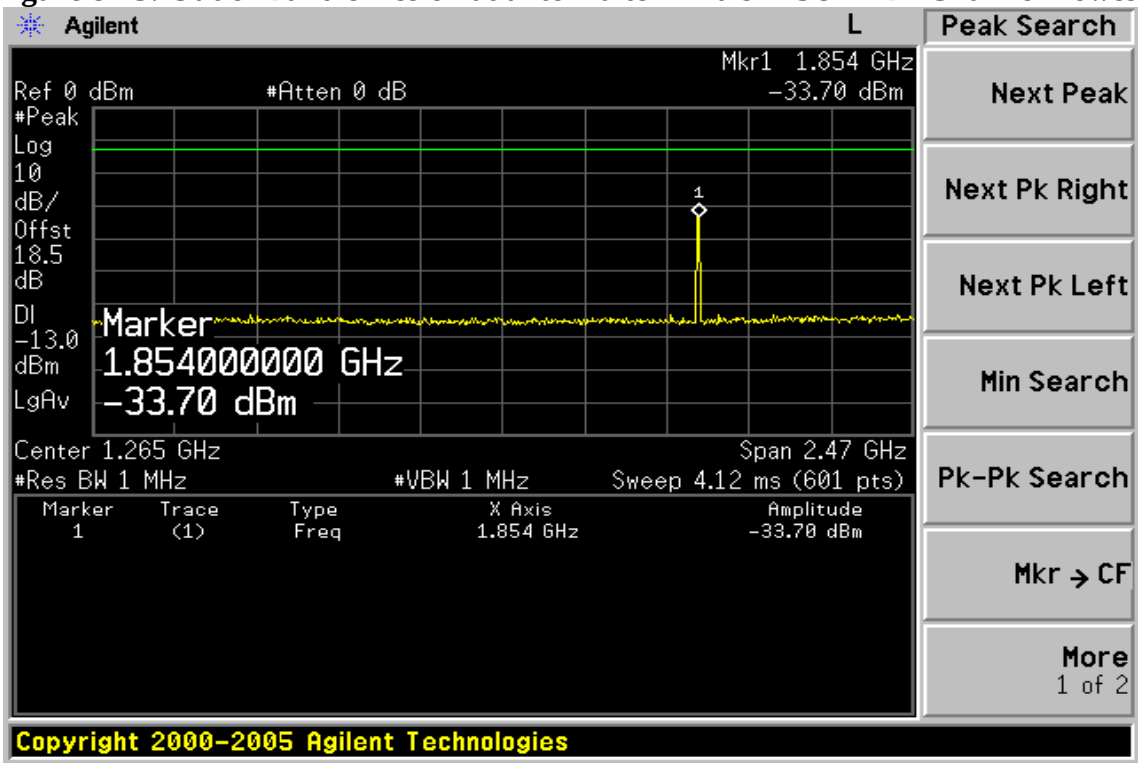


Figure 8-15: Out of Band emission at antenna terminals–HSUPA B2 Channel Lowest



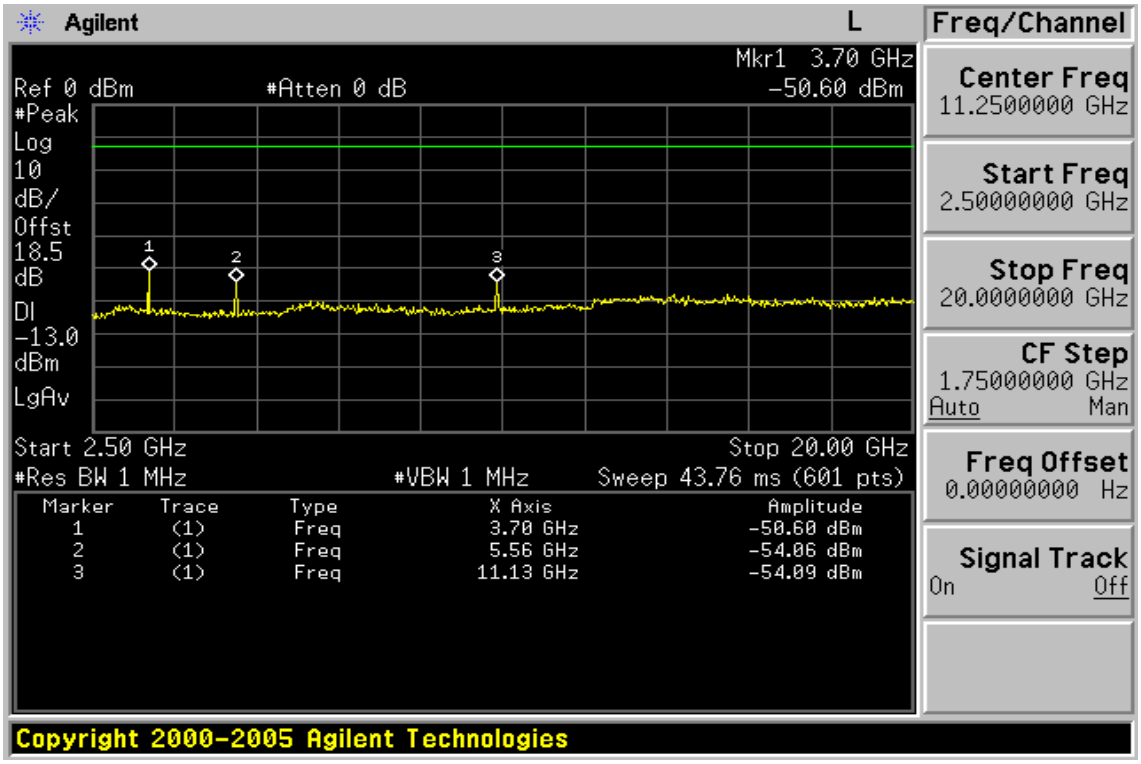
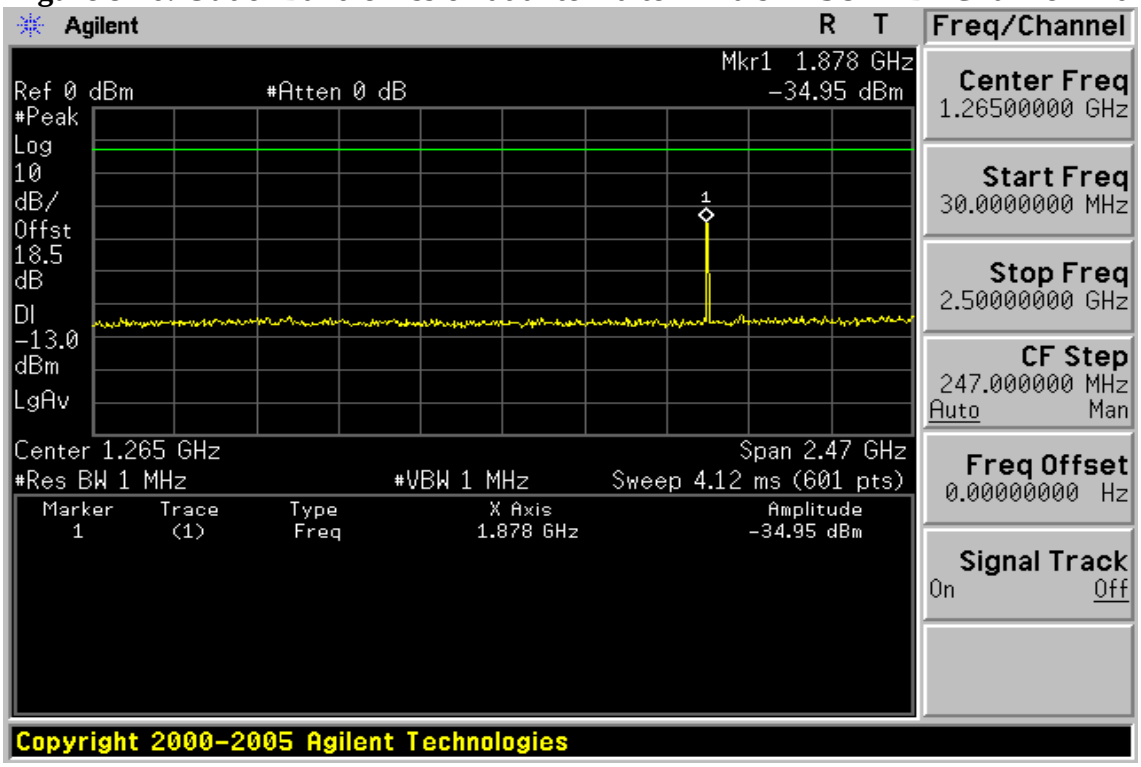


Figure 8-16: Out of Band emission at antenna terminals –HSUPA B2 Channel Mid



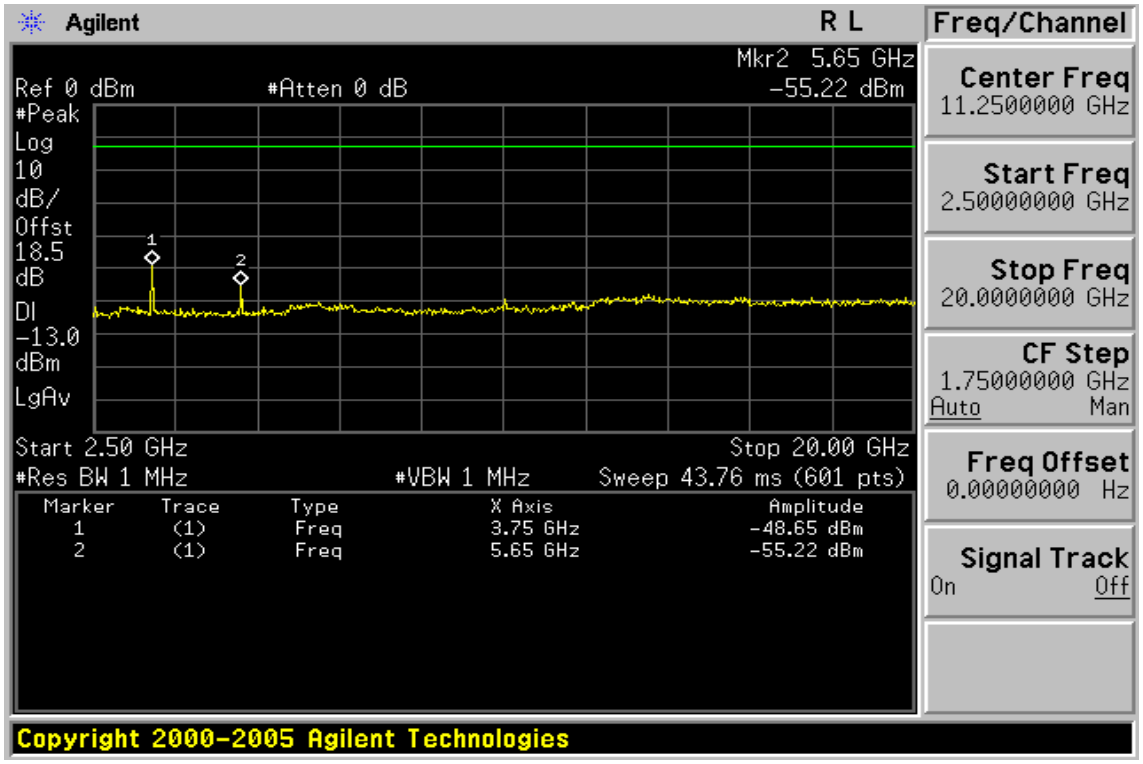
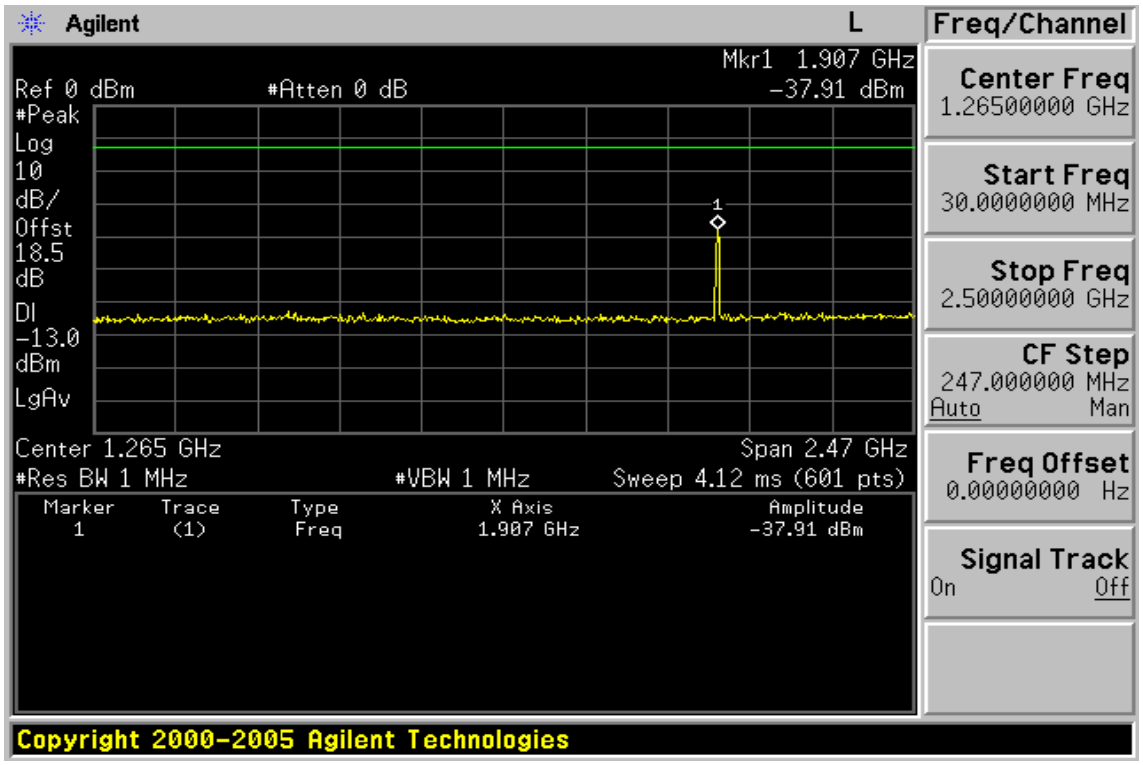


Figure 8-17: Out of Band emission at antenna terminals–HSUPA B2 Channel Highest



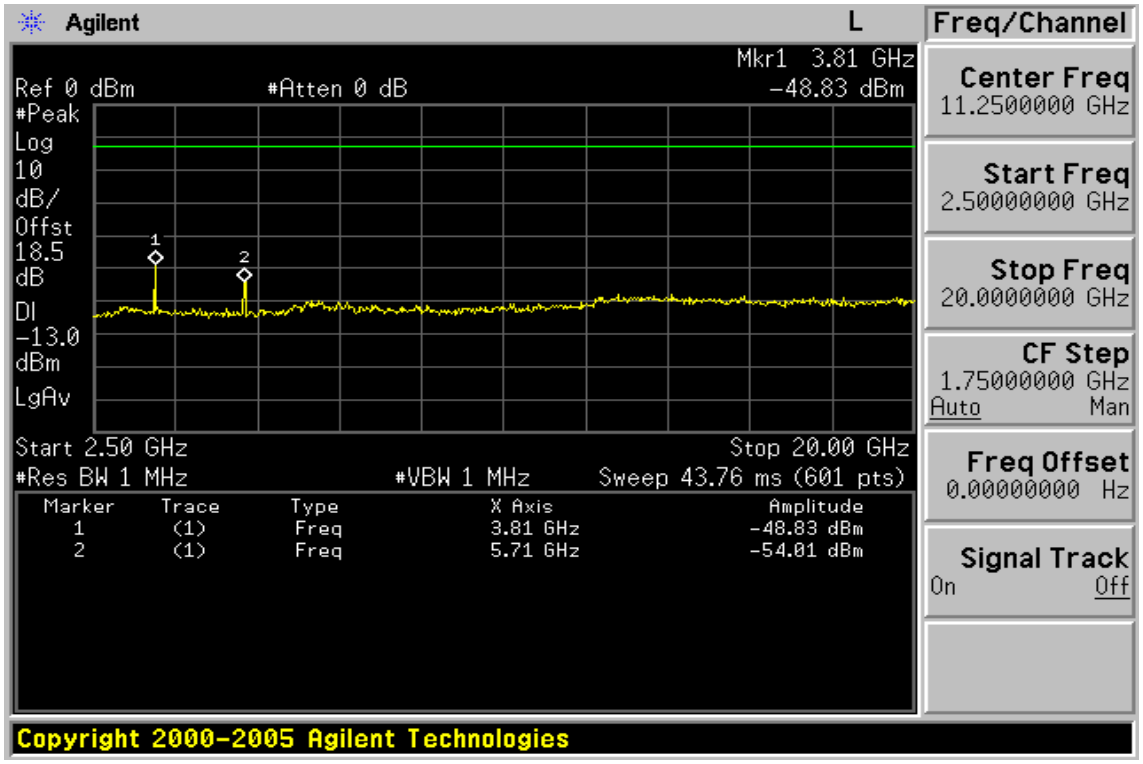


Figure 8-18: Band edge emission at antenna terminals –HSUPA B2 Channel Lowest

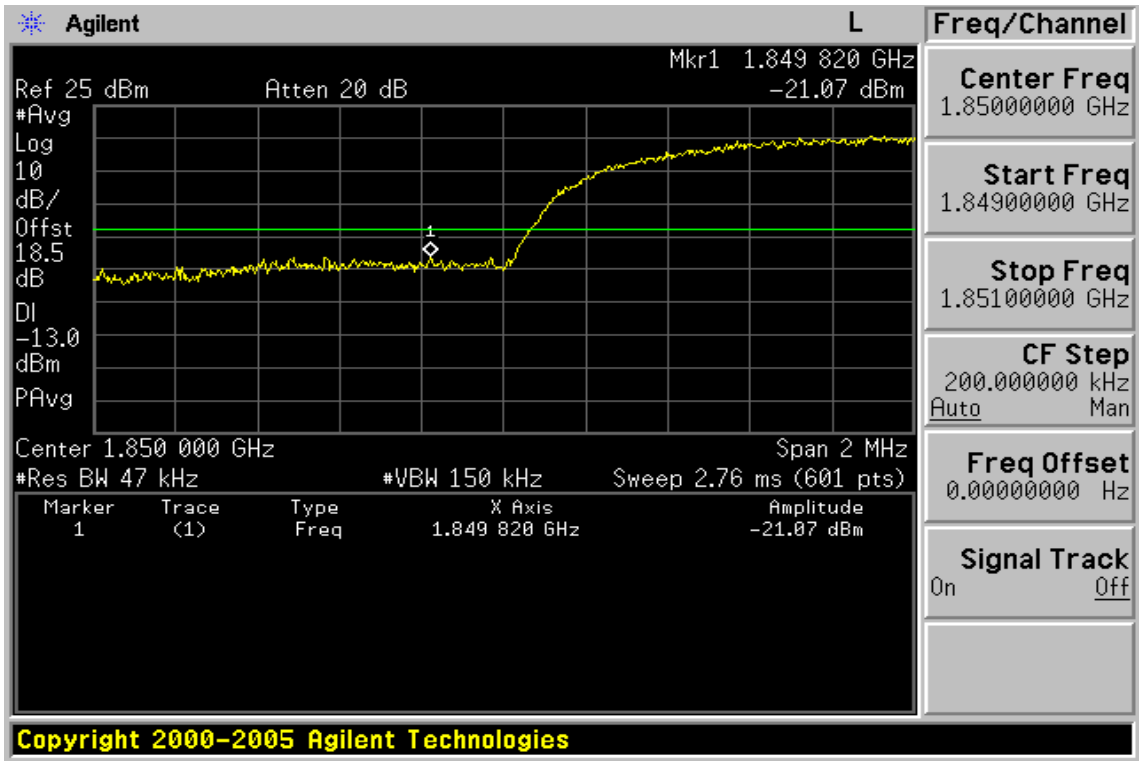


Figure 8-19: Band edge emission at antenna terminals –HSUPA B2 Channel Highest

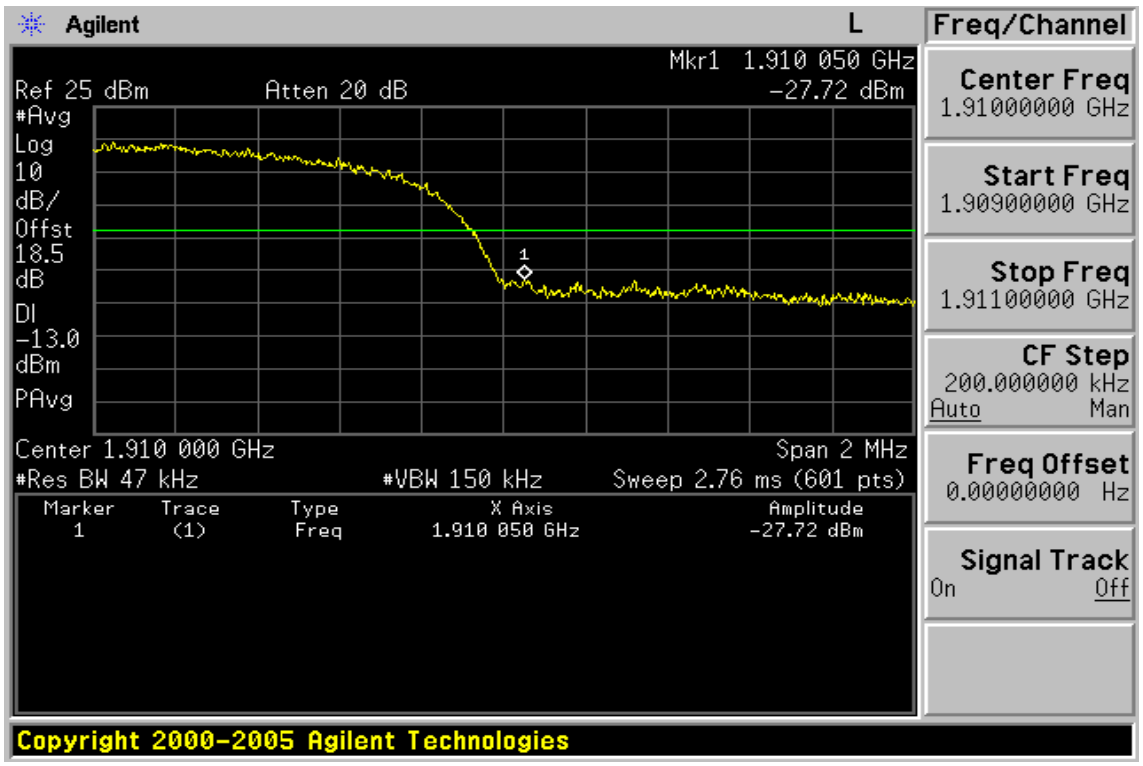
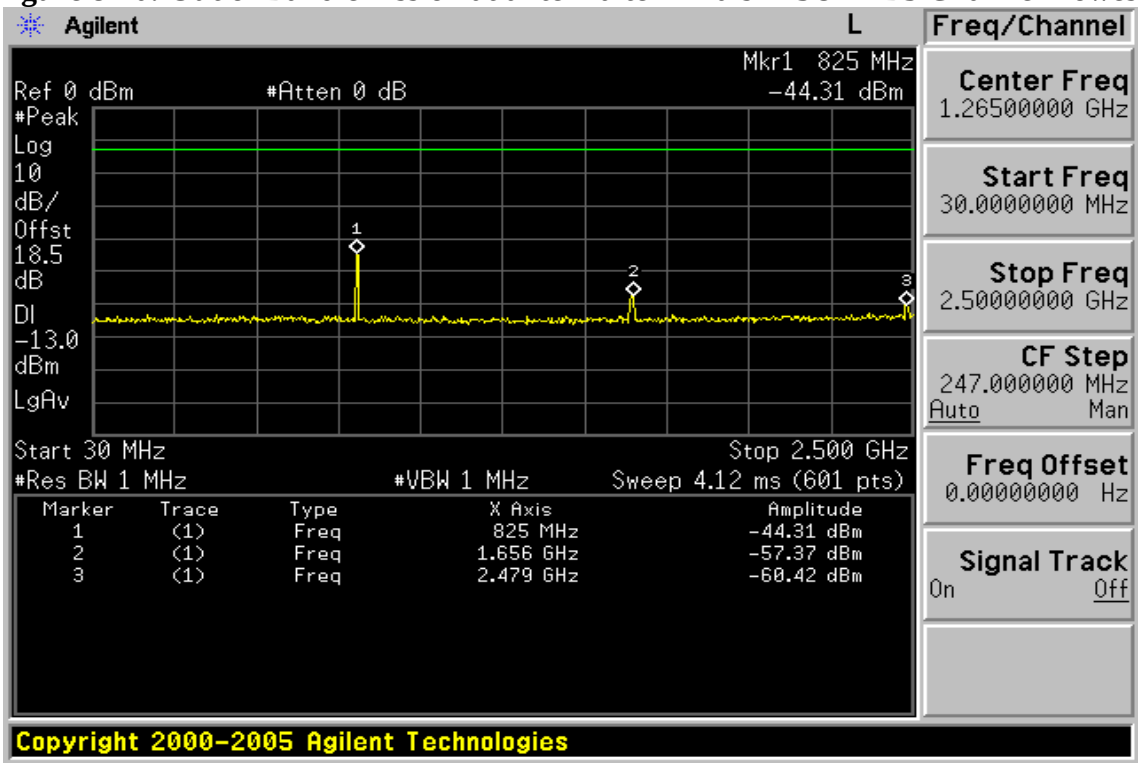


Figure 8-20: Out of Band emission at antenna terminals–HSUPA B5 Channel Lowest



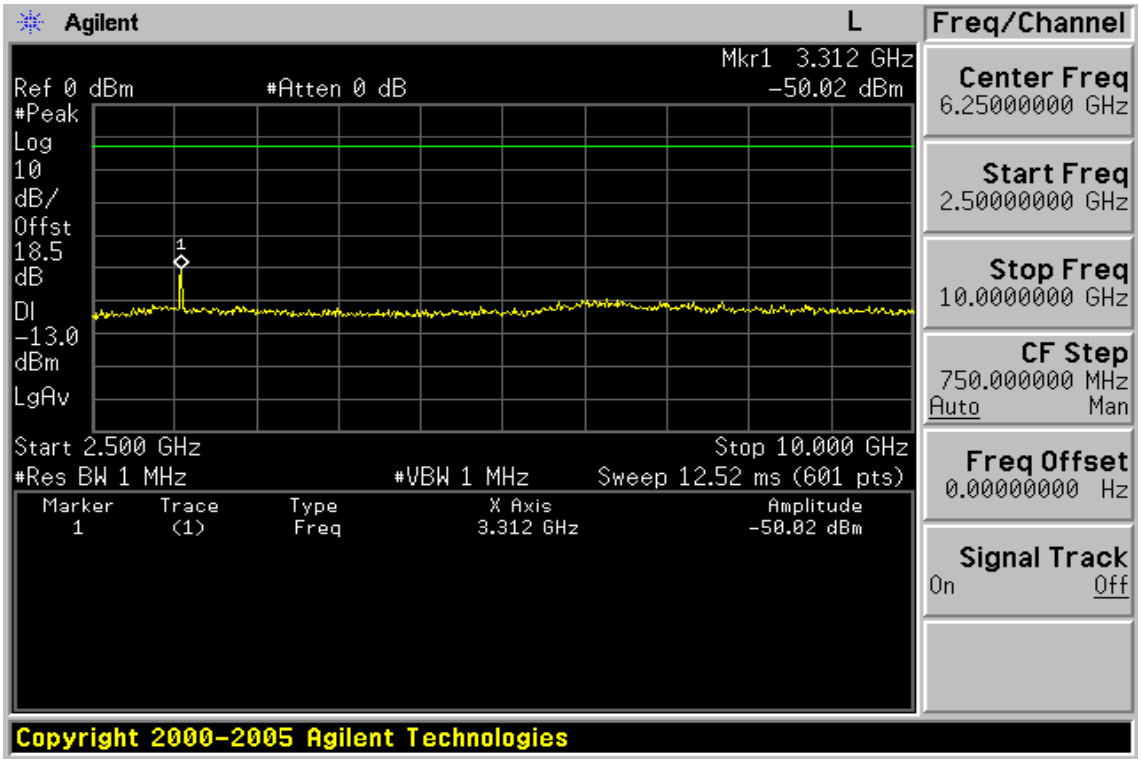
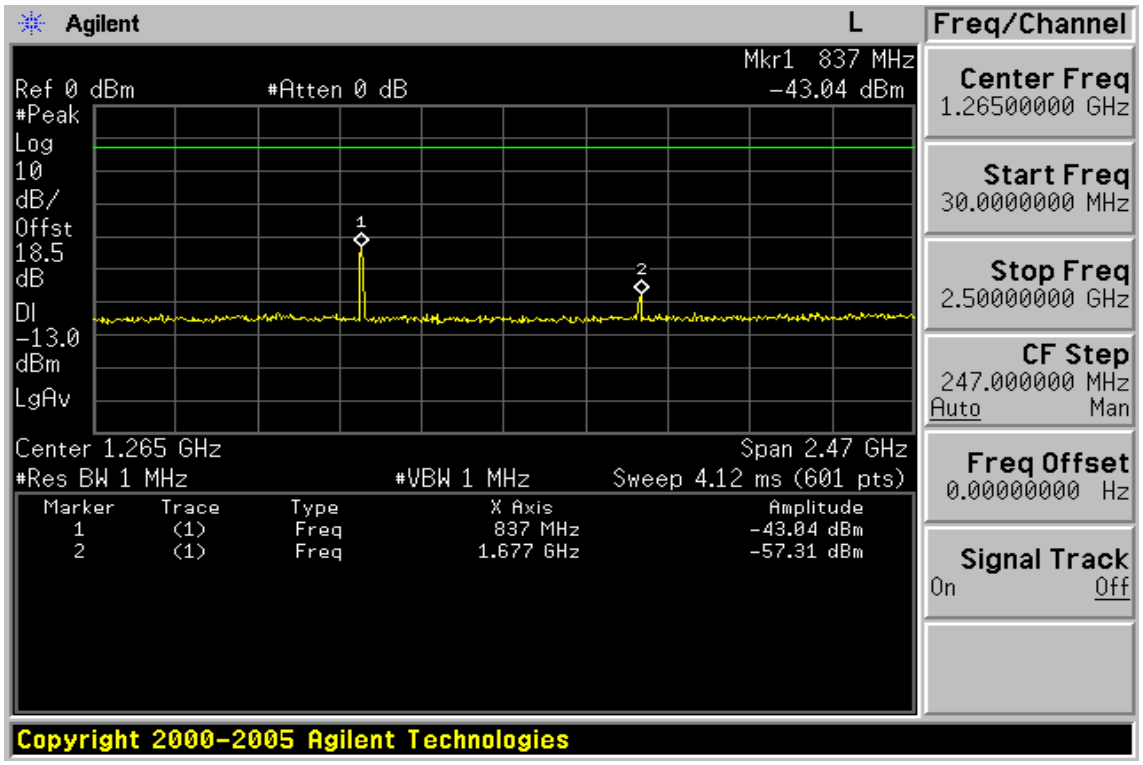


Figure 8-21: Out of Band emission at antenna terminals –HSUPA B5 Channel Mid



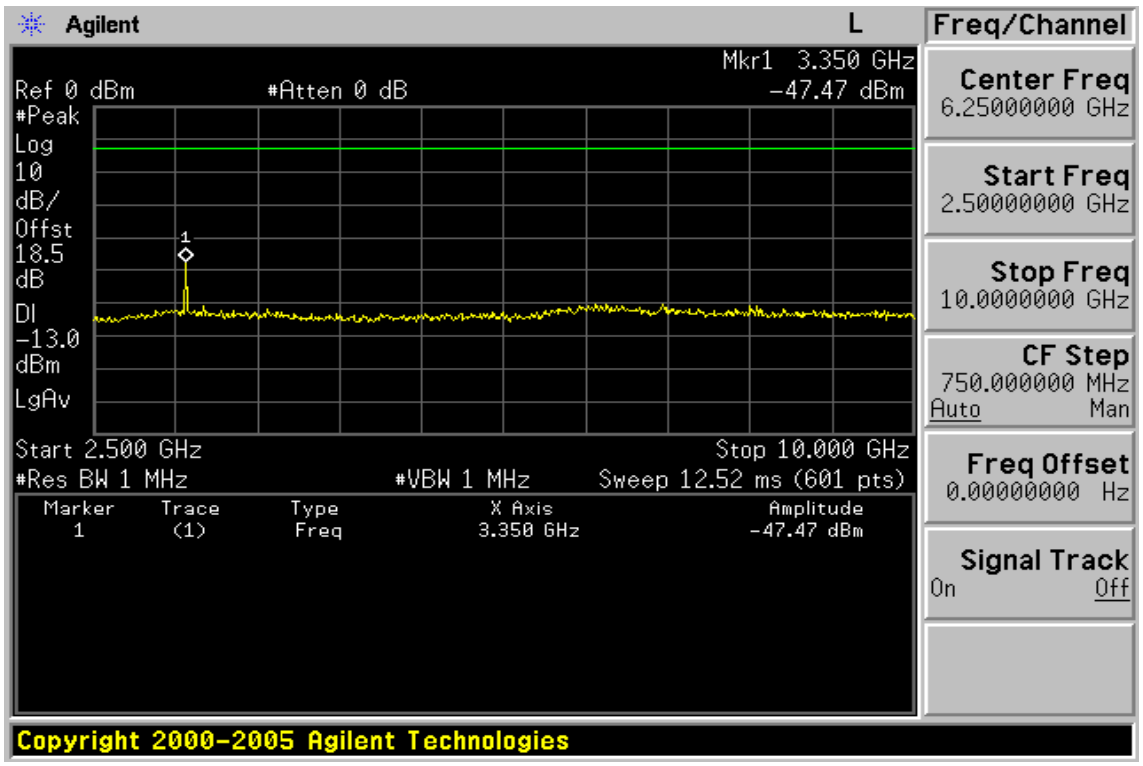
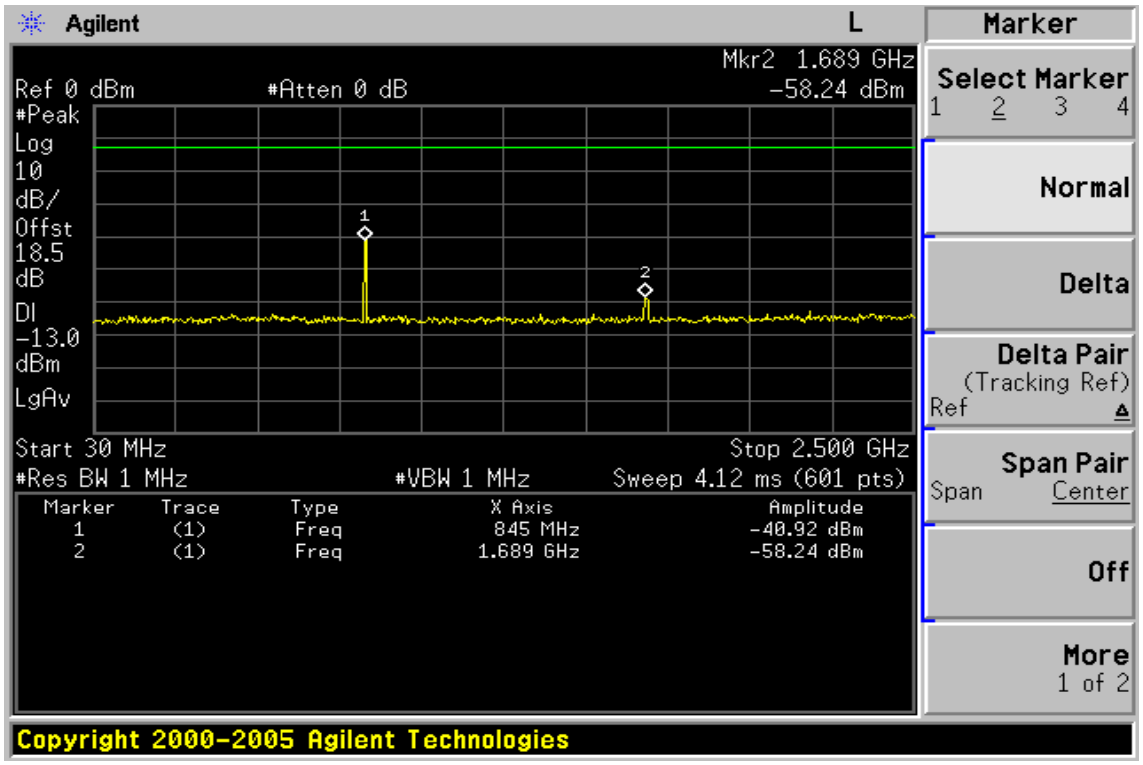


Figure 8-22: Out of Band emission at antenna terminals–HSUPA B5 Channel Highest



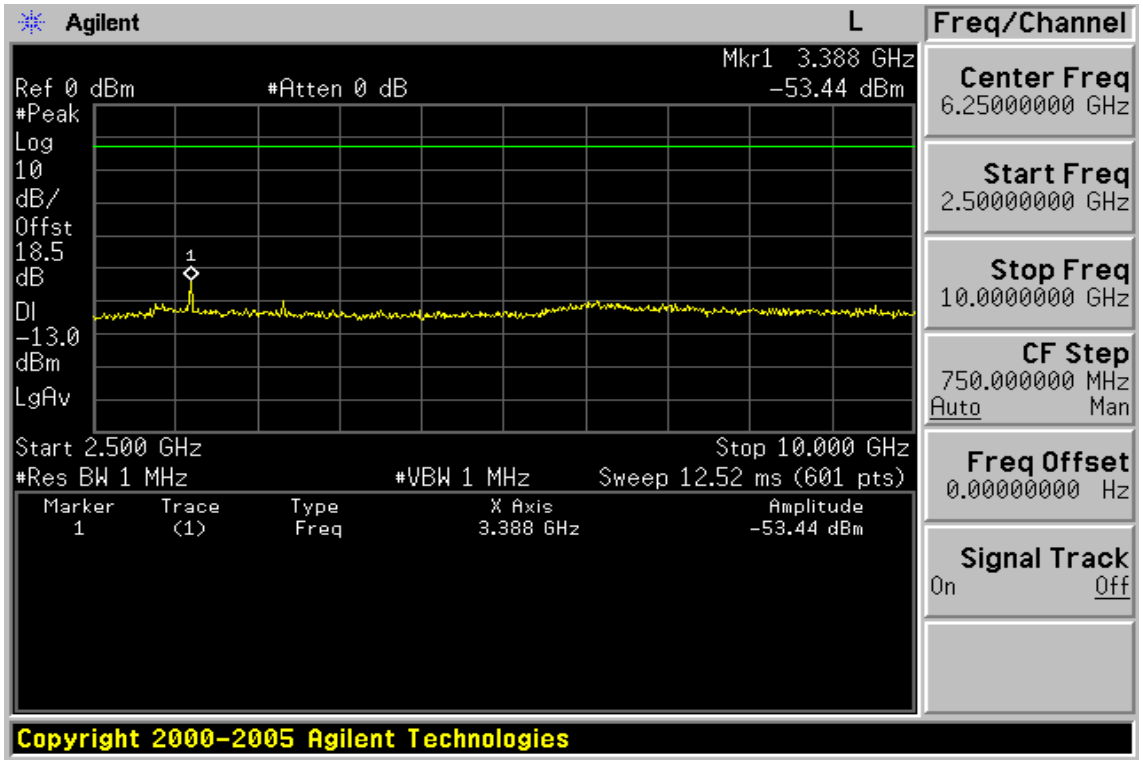


Figure 8-23: Band edge emission at antenna terminals –HSUPA B5 Channel Lowest

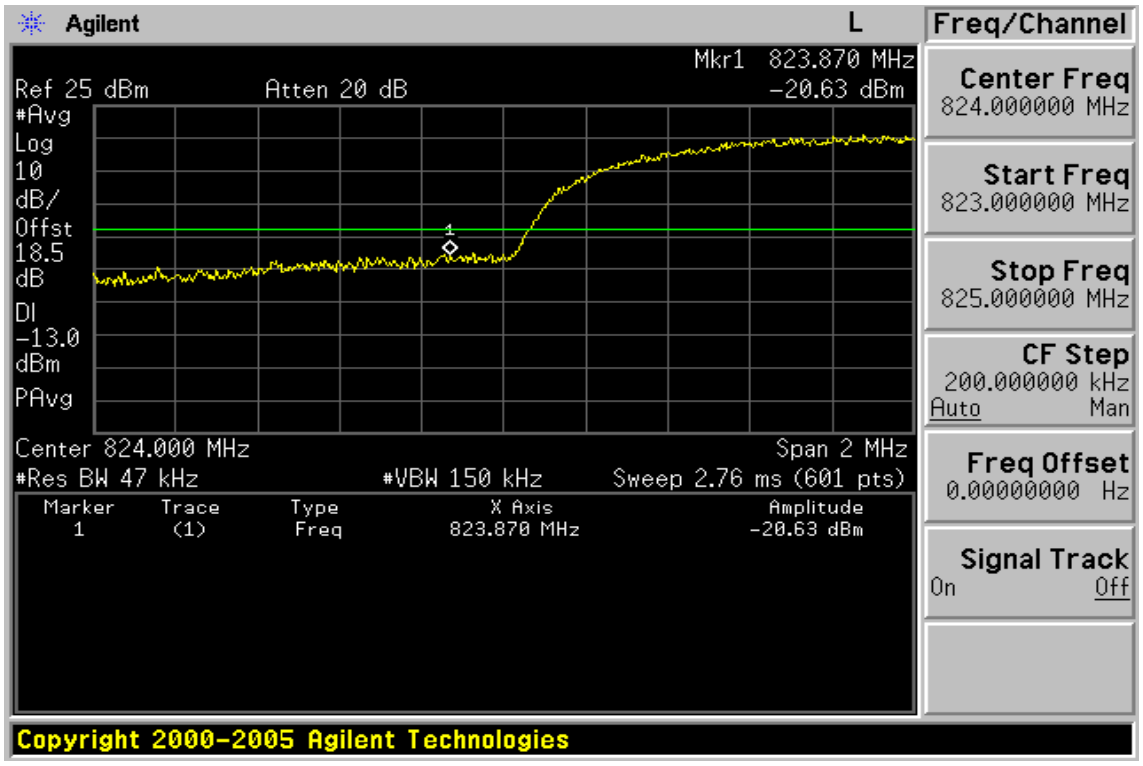
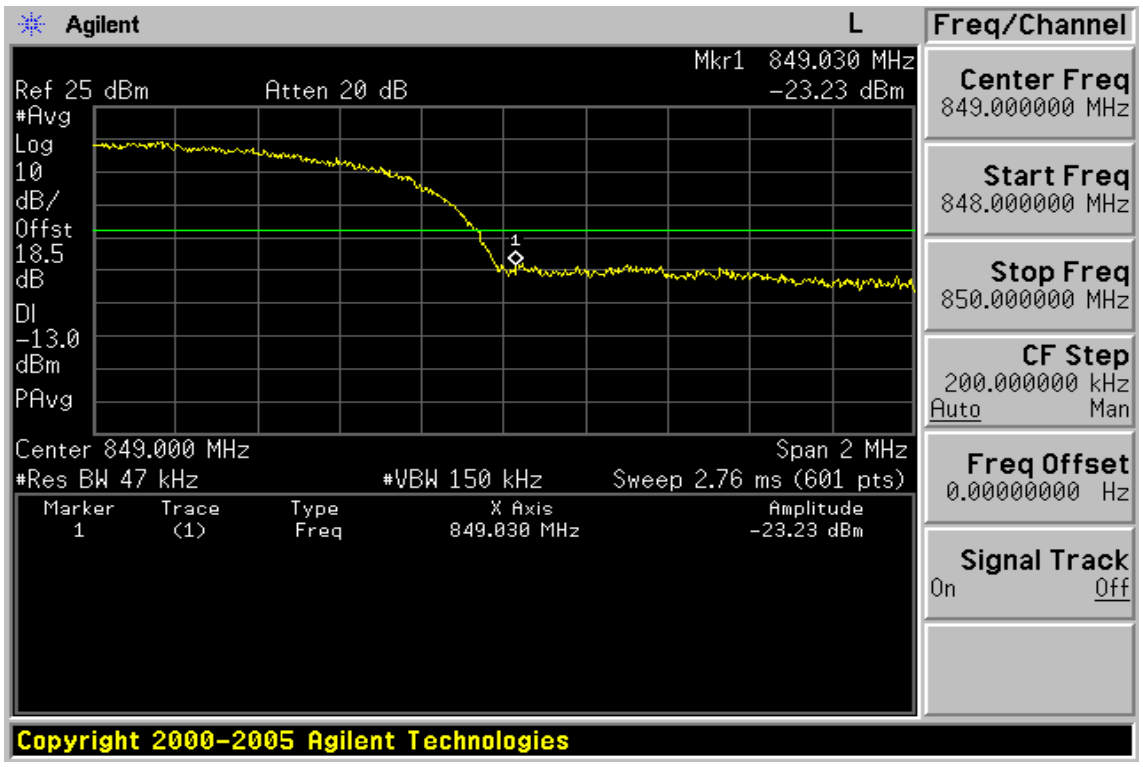


Figure 8-24: Band edge emission at antenna terminals –HSUPA B5 Channel Highest



9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

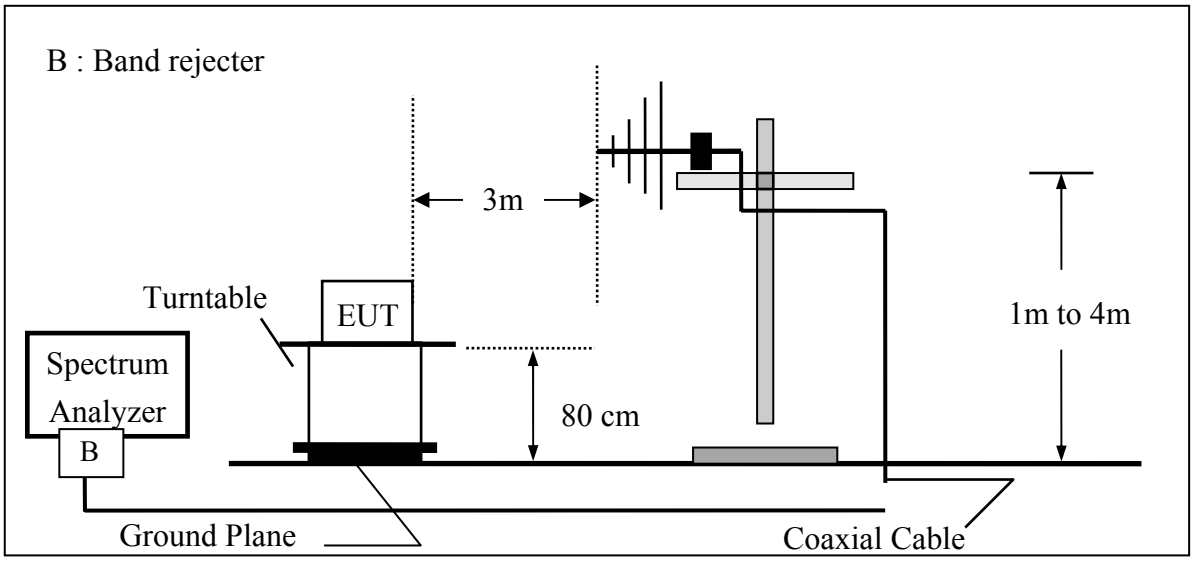
9.1. Standard Applicable:

According to FCC §2.1053,

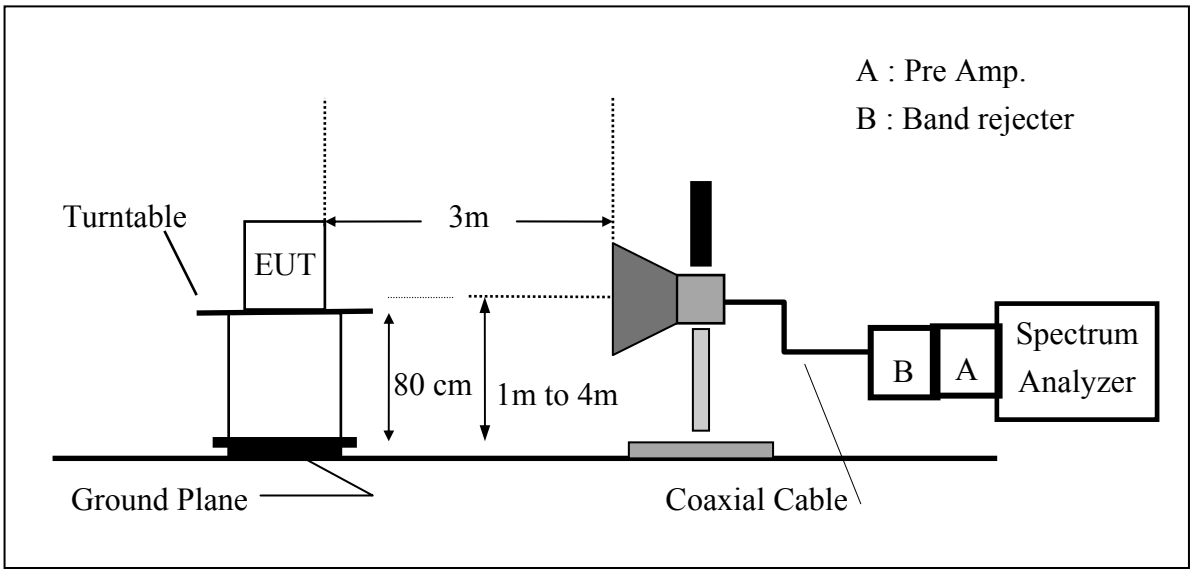
FCC §22.917(a),§24.238(a) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power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

9.2. EUT Setup (Block Diagram of Configuration):

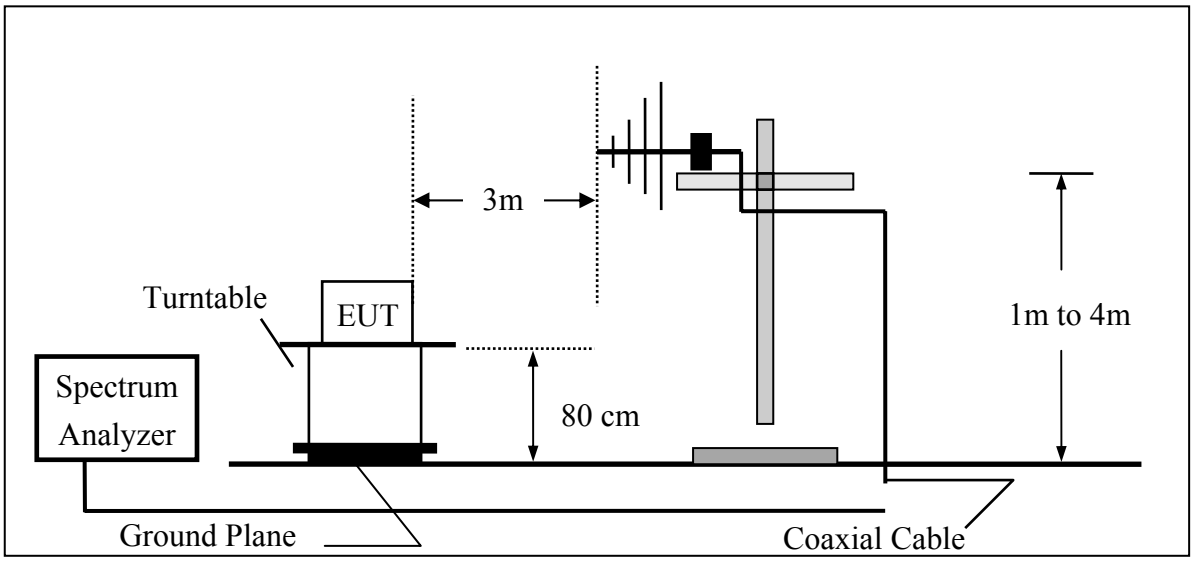
Radiated Emission Test Set-Up, Frequency Below 1000MHz



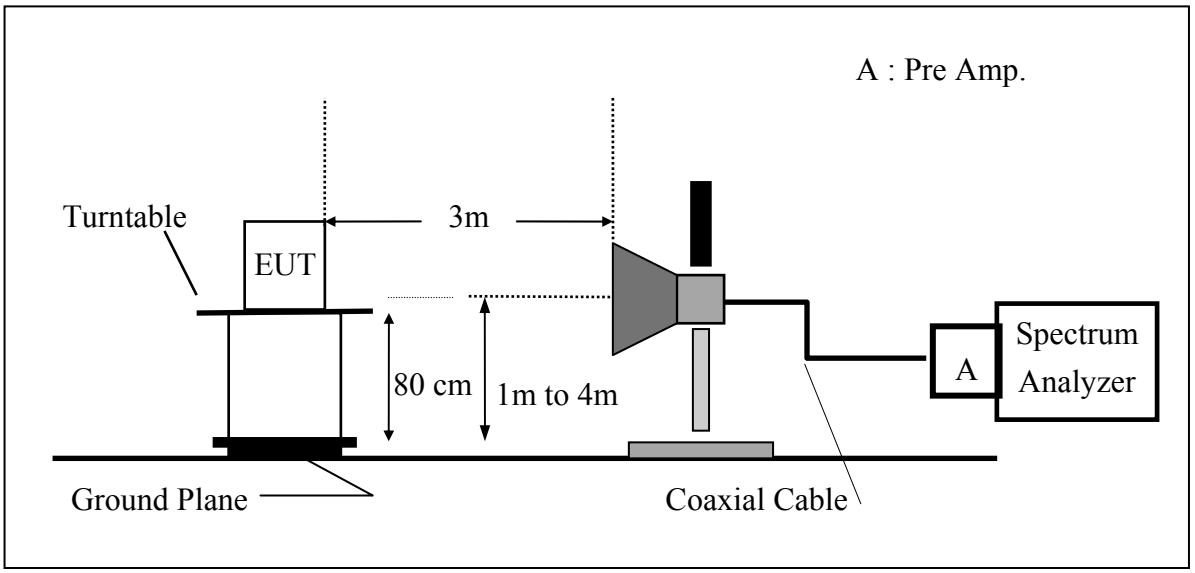
Radiated Emission Test Set-UP Frequency Over 1 GHz



Band edge Test Set-Up, Frequency Below 1000MHz



Band edge Test Set-UP Frequency Over 1 GHz



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 was 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.

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

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

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

9.5. Measurement Result:

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 824.20 MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	50.08	V	-52.65	-4.16	0.91	-57.72	-13.00	-44.72
67.83	45.53	V	-66.16	-0.95	1.14	-68.25	-13.00	-55.25
92.08	48.90	V	-54.03	-7.75	1.29	-63.07	-13.00	-50.07
126.03	42.52	V	-56.99	-7.78	1.48	-66.25	-13.00	-53.25
823.98	71.37	V	-15.02	-7.87	3.62	-26.52	-13.00	-13.52
1643.50	60.83	V	-43.76	9.27	5.22	-39.70	-13.00	-26.70
2475.50	53.63	V	-47.36	10.07	6.53	-43.82	-13.00	-30.82
3288.00	---	V		12.15	7.70		-13.00	
4121.00	---	V		12.61	8.86		-13.00	
4945.20	---	V		12.65	9.74		-13.00	
5769.40	---	V		13.55	10.54		-13.00	
6593.60	---	V		12.05	11.30		-13.00	
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

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

Remark:

1 The emission 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)

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 824.20 MHz	Test By:	Bondi
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)
38.73	45.37	H	-57.82	-3.25	0.90	-61.97	-13.00	-48.97
58.13	41.14	H	-69.29	-0.49	1.08	-70.86	-13.00	-57.86
92.08	46.90	H	-56.69	-7.75	1.29	-65.73	-13.00	-52.73
126.03	41.73	H	-58.55	-7.78	1.48	-67.81	-13.00	-54.81
201.69	42.13	H	-59.44	-7.84	1.72	-69.00	-13.00	-56.00
823.98	83.38	H	-2.89	-7.87	3.62	-14.39	-13.00	-1.39
1643.50	60.11	H	-44.30	9.27	5.22	-40.24	-13.00	-27.24
2475.50	57.18	H	-43.71	10.07	6.53	-40.17	-13.00	-27.17
2963.00	---	H		11.41	7.20		-13.00	
4121.00	---	H		12.61	8.86		-13.00	
4945.20	---	H		12.65	9.74		-13.00	
5769.40	---	H		13.55	10.54		-13.00	
6593.60	---	H		12.05	11.30		-13.00	
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

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

Remark:

1 The emission 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)

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH Mid E2 Mode
Fundamental Frequency : 836.60 MHz
Temperature : 25℃
Humidity : 65%

Test Date: Oct. 29, 2009
Test By: Bondi
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)
36.79	49.40	V	-53.33	-4.16	0.91	-58.40	-13.00	-45.40
67.83	44.79	V	-66.90	-0.95	1.14	-68.99	-13.00	-55.99
92.08	47.18	V	-55.75	-7.75	1.29	-64.79	-13.00	-51.79
126.03	43.48	V	-56.03	-7.78	1.48	-65.29	-13.00	-52.29
1663.00	61.38	V	-43.19	9.33	5.25	-39.11	-13.00	-26.11
2508.00	52.22	V	-48.57	10.08	6.58	-45.07	-13.00	-32.07
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

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

Remark:

1 The emission 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 Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 836.60 MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	45.01	H	-57.88	-2.79	0.89	-61.57	-13.00	-48.57
58.13	40.56	H	-69.87	-0.49	1.08	-71.44	-13.00	-58.44
92.08	46.40	H	-57.19	-7.75	1.29	-66.23	-13.00	-53.23
126.03	42.79	H	-57.49	-7.78	1.48	-66.75	-13.00	-53.75
201.69	41.31	H	-60.26	-7.84	1.72	-69.82	-13.00	-56.82
1663.00	60.37	H	-44.02	9.33	5.25	-39.94	-13.00	-26.94
2508.00	54.83	H	-45.88	10.08	6.58	-42.37	-13.00	-29.37
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

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

Remark:

1 The emission 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)

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 848.80 MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	49.75	V	-52.98	-4.16	0.91	-58.05	-13.00	-45.05
67.83	44.34	V	-67.35	-0.95	1.14	-69.44	-13.00	-56.44
92.08	45.95	V	-56.98	-7.75	1.29	-66.02	-13.00	-53.02
126.03	42.60	V	-56.91	-7.78	1.48	-66.17	-13.00	-53.17
184.23	37.52	V	-62.84	-7.83	1.67	-72.34	-13.00	-59.34
849.03	73.94	V	-12.18	-7.88	3.68	-23.74	-13.00	-10.74
1695.50	61.95	V	-42.59	9.43	5.30	-38.46	-13.00	-25.46
2540.50	53.44	V	-47.23	10.18	6.63	-43.67	-13.00	-30.67
3395.20	---	V		12.38	7.87		-13.00	
4244.00	---	V		12.63	9.00		-13.00	
5092.80	---	V		12.74	9.88		-13.00	
5941.60	---	V		13.81	10.70		-13.00	
6790.40	---	V		11.86	11.48		-13.00	
7639.20	---	V		11.40	12.27		-13.00	
8488.00	---	V		11.70	12.91		-13.00	

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

Remark:

1 The emission 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)

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 848.80 MHz	Test By:	Bondi
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)
41.64	45.57	H	-57.94	-2.31	0.93	-61.18	-13.00	-48.18
56.19	40.40	H	-69.24	-0.51	1.09	-70.84	-13.00	-57.84
92.08	45.00	H	-58.59	-7.75	1.29	-67.63	-13.00	-54.63
128.94	41.48	H	-58.49	-7.78	1.49	-67.77	-13.00	-54.77
849.00	80.56	H	-5.63	-7.88	3.68	-17.19	-13.00	-4.19
1695.50	60.37	H	-43.98	9.43	5.30	-39.86	-13.00	-26.86
2540.50	53.65	H	-46.96	10.18	6.63	-43.41	-13.00	-30.41
3395.20	---	H		12.38	7.87		-13.00	
4244.00	---	H		12.63	9.00		-13.00	
5092.80	---	H		12.74	9.88		-13.00	
5941.60	---	H		13.81	10.70		-13.00	
6790.40	---	H		11.86	11.48		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
8488.00	---	H		11.70	12.91		-13.00	

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

Remark:

1 The emission 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)

Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 1850.20MHz	Test By:	Bondi
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)
38.73	45.65	V	-56.52	-3.25	0.90	-60.66	-13.00	-47.66
77.53	44.65	V	-66.77	-2.12	1.21	-70.10	-13.00	-57.10
90.14	49.32	V	-53.86	-7.75	1.27	-62.88	-13.00	-49.88
106.63	44.72	V	-56.59	-7.77	1.39	-65.74	-13.00	-52.74
1850.00	66.11	V	-38.28	9.90	5.56	-33.94	-13.00	-20.94
3700.40	---	V		12.61	8.31		-13.00	
5550.60	45.76	V	-45.08	13.23	10.33	-42.18	-13.00	-29.18
7400.80	---	V		11.50	12.08		-13.00	
9251.00	---	V		11.92	13.50		-13.00	
11101.20	---	V		11.66	15.11		-13.00	
12951.40	---	V		13.63	16.60		-13.00	
14801.60	---	V		12.76	17.95		-13.00	
16651.80	---	V		15.92	19.14		-13.00	

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)

Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 1850.20MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	46.96	H	-55.93	-2.79	0.89	-59.62	-13.00	-46.62
56.19	39.60	H	-70.04	-0.51	1.09	-71.64	-13.00	-58.64
90.14	46.10	H	-57.63	-7.75	1.27	-66.65	-13.00	-53.65
106.63	39.95	H	-62.36	-7.77	1.39	-71.51	-13.00	-58.51
1850.00	79.12	H	-25.06	9.90	5.56	-20.72	-13.00	-7.72
3700.40	---	H		12.61	8.31		-13.00	
5550.60	43.92	H	-47.13	13.23	10.33	-44.23	-13.00	-31.23
7400.80	---	H		11.50	12.08		-13.00	
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	

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)

Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 1880MHz	Test By:	Bondi
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)
38.73	46.05	V	-56.12	-3.25	0.90	-60.26	-13.00	-47.26
77.53	45.72	V	-65.70	-2.12	1.21	-69.03	-13.00	-56.03
90.14	48.76	V	-54.42	-7.75	1.27	-63.44	-13.00	-50.44
106.63	47.62	V	-53.69	-7.77	1.39	-62.84	-13.00	-49.84
3760.00	---	V		12.60	8.39		-13.00	
5640.00	44.85	V	-45.73	13.36	10.41	-42.78	-13.00	-29.78
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	

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)

Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 1880MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	45.85	H	-57.04	-2.79	0.89	-60.73	-13.00	-47.73
56.19	38.50	H	-71.14	-0.51	1.09	-72.74	-13.00	-59.74
90.14	43.13	H	-60.60	-7.75	1.27	-69.62	-13.00	-56.62
106.63	40.56	H	-61.75	-7.77	1.39	-70.90	-13.00	-57.90
3760.00	---	H		12.60	8.39		-13.00	
5640.00	44.01	H	-46.74	13.36	10.41	-43.79	-13.00	-30.79
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	

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)

Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 1909.8 MHz	Test By:	Bondi
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)
38.73	46.57	V	-55.60	-3.25	0.90	-59.74	-13.00	-46.74
65.89	41.85	V	-69.74	-0.83	1.12	-71.69	-13.00	-58.69
92.08	48.39	V	-54.54	-7.75	1.29	-63.58	-13.00	-50.58
106.63	47.35	V	-53.96	-7.77	1.39	-63.11	-13.00	-50.11
1910.00	66.16	V	-38.17	10.08	5.66	-33.75	-13.00	-20.75
3819.60	46.72	V	-50.67	12.60	8.47	-46.54	-13.00	-33.54
5729.40	---	V		13.49	10.50		-13.00	
7639.20	---	V		11.40	12.27		-13.00	
9549.00	---	V		11.95	13.74		-13.00	
11458.80	---	V		12.17	15.43		-13.00	
13368.60	---	V		12.97	16.82		-13.00	
15278.40	---	V		15.00	18.29		-13.00	
17188.20	---	V		14.47	19.52		-13.00	
19098.00	---	V		18.66	20.78		-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)

Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 1909.8 MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	46.91	H	-55.98	-2.79	0.89	-59.67	-13.00	-46.67
56.19	39.18	H	-70.46	-0.51	1.09	-72.06	-13.00	-59.06
90.14	45.34	H	-58.39	-7.75	1.27	-67.41	-13.00	-54.41
106.63	41.45	H	-60.86	-7.77	1.39	-70.01	-13.00	-57.01
1910.01	80.53	H	-23.58	10.08	5.66	-19.16	-13.00	-6.16
3819.60	---	H		12.60	8.47		-13.00	
5729.40	48.14	H	-42.31	13.49	10.50	-39.32	-13.00	-26.32
7639.20	---	H		11.40	12.27		-13.00	
9549.00	---	H		11.95	13.74		-13.00	
11458.80	---	H		12.17	15.43		-13.00	
13368.60	---	H		12.97	16.82		-13.00	
15278.40	---	H		15.00	18.29		-13.00	
17188.20	---	H		14.47	19.52		-13.00	
19098.00	---	H		18.66	20.78		-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)

Radiated Spurious Emission Measurement Result: HSUPA Band II Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 1852.40MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	48.42	V	-54.31	-4.16	0.91	-59.38	-13.00	-46.38
64.92	43.54	V	-68.01	-0.77	1.11	-69.89	-13.00	-56.89
92.08	47.84	V	-55.09	-7.75	1.29	-64.13	-13.00	-51.13
124.09	34.13	V	-65.56	-7.78	1.47	-74.81	-13.00	-61.81
1850.00	63.45	V	-40.94	9.90	5.56	-36.60	-13.00	-23.60
3704.80	---	V		12.61	8.31		-13.00	
5557.20	52.71	V	-38.11	13.24	10.33	-35.21	-13.00	-22.21
7409.60	---	V		11.49	12.09		-13.00	
9262.00	---	V		11.92	13.51		-13.00	
11114.40	---	V		11.68	15.12		-13.00	
12966.80	---	V		13.62	16.61		-13.00	
14819.20	---	V		12.83	17.96		-13.00	
16671.60	---	V		15.87	19.15		-13.00	
18524.00	---	V		18.74	10.86		-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)

Radiated Spurious Emission Measurement Result: HSUPA Band II Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 1852.40MHz	Test By:	Bondi
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)
38.73	45.04	H	-58.15	-3.25	0.90	-62.30	-13.00	-49.30
56.19	39.99	H	-69.65	-0.51	1.09	-71.25	-13.00	-58.25
67.83	41.56	H	-70.50	-0.95	1.14	-72.59	-13.00	-59.59
92.08	45.78	H	-57.81	-7.75	1.29	-66.85	-13.00	-53.85
1850.00	77.34	H	-26.84	9.90	5.56	-22.50	-13.00	-9.50
3704.80	---	H		12.61	8.31		-13.00	
5557.20	52.54	H	-38.49	13.24	10.33	-35.59	-13.00	-22.59
7409.60	---	H		11.49	12.09		-13.00	
9262.00	---	H		11.92	13.51		-13.00	
11114.40	---	H		11.68	15.12		-13.00	
12966.80	---	H		13.62	16.61		-13.00	
14819.20	---	H		12.83	17.96		-13.00	
16671.60	---	H		15.87	19.15		-13.00	
18524.00	---	H		18.74	10.86		-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)

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: Oct. 29, 2009
Test By: Bondi
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)
36.70	48.30	V	-54.46	-4.20	0.91	-59.56	-13.00	-46.56
62.98	43.92	V	-67.53	-0.64	1.10	-69.27	-13.00	-56.27
92.08	46.39	V	-56.54	-7.75	1.29	-65.58	-13.00	-52.58
153.19	32.83	V	-64.75	-7.80	1.60	-74.15	-13.00	-61.15
177.44	32.74	V	-67.01	-7.82	1.66	-76.49	-13.00	-63.49
3760.00	---	V		12.60	8.39		-13.00	
5640.00	47.85	V	-42.73	13.36	10.41	-39.78	-13.00	-26.78
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

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

Remark:

1 The emission 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)

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: Oct. 29, 2009
Test By: Bondi
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)
36.79	45.47	H	-58.33	-4.16	0.91	-63.39	-13.00	-50.39
56.19	40.34	H	-69.30	-0.51	1.09	-70.90	-13.00	-57.90
70.74	40.40	H	-71.91	-1.18	1.16	-74.25	-13.00	-61.25
92.08	45.71	H	-57.88	-7.75	1.29	-66.92	-13.00	-53.92
158.04	32.86	H	-65.53	-7.81	1.61	-74.95	-13.00	-61.95
3760.00	---	H		12.60	8.39		-13.00	
5640.00	46.54	H	-44.21	13.36	10.41	-41.26	-13.00	-28.26
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

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

Remark:

1 The emission 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)

Radiated Spurious Emission Measurement Result: HSUPA Band II Mode

Operation Mode	: TX CH High H Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 1907.6 MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	49.24	V	-53.49	-4.16	0.91	-58.56	-13.00	-45.56
62.98	44.82	V	-66.63	-0.64	1.10	-68.37	-13.00	-55.37
92.08	48.26	V	-54.67	-7.75	1.29	-63.71	-13.00	-50.71
153.19	33.39	V	-64.19	-7.80	1.60	-73.59	-13.00	-60.59
534.40	33.89	V	-59.11	-7.75	2.91	-69.77	-13.00	-56.77
1910.00	51.53	V	-52.80	10.08	5.66	-48.38	-13.00	-35.38
3815.20	---	V		12.60	8.46		-13.00	
5722.80	46.27	V	-44.06	13.48	10.49	-41.07	-13.00	-28.07
7630.40	---	V		11.41	12.27		-13.00	
9538.00	---	V		11.95	13.73		-13.00	
11445.60	---	V		12.15	15.42		-13.00	
13353.20	---	V		13.00	16.81		-13.00	
15260.80	---	V		14.91	18.28		-13.00	
17168.40	---	V		14.53	19.50		-13.00	
19076.00	---	V		18.65	20.76		-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)

Radiated Spurious Emission Measurement Result: HSUPA Band II Mode

Operation Mode	: TX CH High H Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 1907.6 MHz	Test By:	Bondi
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)
36.79	46.44	H	-57.36	-4.16	0.91	-62.42	-13.00	-49.42
56.19	41.28	H	-68.36	-0.51	1.09	-69.96	-13.00	-56.96
70.74	41.88	H	-70.43	-1.18	1.16	-72.77	-13.00	-59.77
92.08	46.30	H	-57.29	-7.75	1.29	-66.33	-13.00	-53.33
1910.00	66.79	H	-37.32	10.08	5.66	-32.90	-13.00	-19.90
3815.20	---	H		12.60	8.46		-13.00	
5722.80	45.42	H	-45.05	13.48	10.49	-42.06	-13.00	-29.06
7630.40	---	H		11.41	12.27		-13.00	
9538.00	---	H		11.95	13.73		-13.00	
11445.60	---	H		12.15	15.42		-13.00	
13353.20	---	H		13.00	16.81		-13.00	
15260.80	---	H		14.91	18.28		-13.00	
17168.40	---	H		14.53	19.50		-13.00	
19076.00	---	H		18.65	20.76		-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)

Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Mode	: TX CH Low E1 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 826.4MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	50.53	V	-52.20	-4.16	0.91	-57.27	-13.00	-44.27
67.83	45.93	V	-65.76	-0.95	1.14	-67.85	-13.00	-54.85
92.08	49.86	V	-53.07	-7.75	1.29	-62.11	-13.00	-49.11
153.19	33.56	V	-64.02	-7.80	1.60	-73.42	-13.00	-60.42
823.00	69.07	V	-17.33	-7.87	3.62	-28.83	-13.00	-15.83
1652.80	57.97	V	-46.61	9.30	5.23	-42.54	-13.00	-29.54
2479.20	46.73	V	-54.23	10.07	6.54	-50.70	-13.00	-37.70
3305.60	---	V		12.19	7.73		-13.00	
4132.00	---	V		12.62	8.87		-13.00	
4958.40	---	V		12.65	9.75		-13.00	
5784.80	---	V		13.58	10.55		-13.00	
6611.20	---	V		12.03	11.31		-13.00	
7437.60	---	V		11.48	12.12		-13.00	
8264.00	---	V		11.50	12.73		-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)

Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Mode	: TX CH Low E1 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 826.4MHz	Test By:	Bondi
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)
36.79	45.86	H	-57.94	-4.16	0.91	-63.00	-13.00	-50.00
58.13	39.79	H	-70.64	-0.49	1.08	-72.21	-13.00	-59.21
92.08	47.67	H	-55.92	-7.75	1.29	-64.96	-13.00	-51.96
193.93	37.65	H	-63.53	-7.84	1.70	-73.06	-13.00	-60.06
823.00	62.26	H	-24.01	-7.87	3.62	-35.51	-13.00	-22.51
1652.80	59.31	H	-45.09	9.30	5.23	-41.02	-13.00	-28.02
2479.20	47.90	H	-52.97	10.07	6.54	-49.43	-13.00	-36.43
3305.60	---	H		12.19	7.73		-13.00	
4132.00	---	H		12.62	8.87		-13.00	
4958.40	---	H		12.65	9.75		-13.00	
5784.80	---	H		13.58	10.55		-13.00	
6611.20	---	H		12.03	11.31		-13.00	
7437.60	---	H		11.48	12.12		-13.00	
8264.00	---	H		11.50	12.73		-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)

Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Mode	: TX CH Mid E1 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 836.6MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	49.97	V	-52.76	-4.16	0.91	-57.83	-13.00	-44.83
67.83	45.81	V	-65.88	-0.95	1.14	-67.97	-13.00	-54.97
92.08	48.33	V	-54.60	-7.75	1.29	-63.64	-13.00	-50.64
153.19	33.36	V	-64.22	-7.80	1.60	-73.62	-13.00	-60.62
1673.20	64.48	V	-40.08	9.36	5.27	-35.98	-13.00	-22.98
2509.80	57.33	V	-43.45	10.09	6.58	-39.95	-13.00	-26.95
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

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

Remark:

1 The emission 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)

Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Mode	: TX CH Mid E1 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 836.6MHz	Test By:	Bondi
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)
36.79	46.49	H	-57.31	-4.16	0.91	-62.37	-13.00	-49.37
56.19	40.63	H	-69.01	-0.51	1.09	-70.61	-13.00	-57.61
92.08	46.94	H	-56.65	-7.75	1.29	-65.69	-13.00	-52.69
155.13	35.24	H	-62.93	-7.80	1.60	-72.33	-13.00	-59.33
1673.20	68.16	H	-36.22	9.36	5.27	-32.12	-13.00	-19.12
2509.80	53.00	H	-47.70	10.09	6.58	-44.20	-13.00	-31.20
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

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

Remark:

1 The emission 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)

Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Mode	: TX CH High E1 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 846.6MHz	Test By:	Bondi
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	49.60	V	-53.13	-4.16	0.91	-58.20	-13.00	-45.20
62.98	43.67	V	-67.78	-0.64	1.10	-69.52	-13.00	-56.52
92.08	48.46	V	-54.47	-7.75	1.29	-63.51	-13.00	-50.51
153.19	32.89	V	-64.69	-7.80	1.60	-74.09	-13.00	-61.09
850.00	64.80	V	-21.31	-7.88	3.68	-32.87	-13.00	-19.87
1693.20	61.69	V	-42.85	9.42	5.30	-38.73	-13.00	-25.73
2539.80	52.79	V	-47.88	10.18	6.62	-44.33	-13.00	-31.33
3386.40	---	V		12.36	7.85		-13.00	
4233.00	---	V		12.63	8.99		-13.00	
5079.60	---	V		12.73	9.87		-13.00	
5926.20	---	V		13.79	10.69		-13.00	
6772.80	---	V		11.87	11.47		-13.00	
7619.40	---	V		11.41	12.26		-13.00	
8466.00	---	V		11.68	12.89		-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)

Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Mode	: TX CH High E1 Mode	Test Date:	Oct. 29, 2009
Fundamental Frequency	: 846.6MHz	Test By:	Bondi
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)
36.79	45.42	H	-58.38	-4.16	0.91	-63.44	-13.00	-50.44
92.08	47.42	H	-56.17	-7.75	1.29	-65.21	-13.00	-52.21
153.19	33.80	H	-64.22	-7.80	1.60	-73.62	-13.00	-60.62
269.59	36.92	H	-61.69	-7.90	2.06	-71.65	-13.00	-58.65
850.00	59.31	H	-26.88	-7.88	3.68	-38.44	-13.00	-25.44
1693.20	65.25	H	-39.10	9.42	5.30	-34.98	-13.00	-21.98
2539.80	47.17	H	-53.45	10.18	6.62	-49.89	-13.00	-36.89
3386.40	---	H		12.36	7.85		-13.00	
4233.00	---	H		12.63	8.99		-13.00	
5079.60	---	H		12.73	9.87		-13.00	
5926.20	---	H		13.79	10.69		-13.00	
6772.80	---	H		11.87	11.47		-13.00	
7619.40	---	H		11.41	12.26		-13.00	
8466.00	---	H		11.68	12.89		-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)

10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

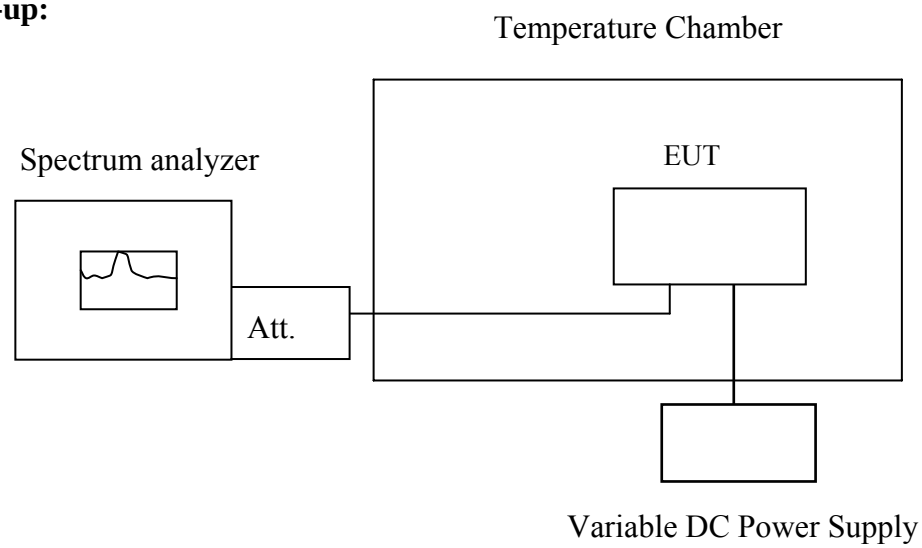
10.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

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:

Refer to section 2.4 in this report

10.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz @ 25℃				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	-30	836.599997	-29.00	2091
3.7	-20	836.599998	-30.00	2091
3.7	-10	836.599959	9.00	2091
3.7	0	836.599975	-7.00	2091
3.7	10	836.599979	-11.00	2091
3.7	20	836.599968	0.00	2091
3.7	30	836.600003	-35.00	2091
3.7	40	836.599993	-25.00	2091
3.7	50	836.599960	8.00	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz @ 25℃				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	-30	1879.999964	-29.00	4700
3.7	-20	1879.99995	-15.00	4700
3.7	-10	1879.999943	-8.00	4700
3.7	0	1879.999937	-2.00	4700
3.7	10	1879.999969	-34.00	4700
3.7	20	1879.999935	0.00	4700
3.7	30	1879.999978	-43.00	4700
3.7	40	1879.999984	-49.00	4700
3.7	50	1879.999940	-5.00	4700

Note: The battery is rated 3.7V dc.

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)		
3.7	-30	1879.999991	5.00	4700
3.7	-20	1880.000008	-12.00	4700
3.7	-10	1879.999995	1.00	4700
3.7	0	1879.999981	15.00	4700
3.7	10	1879.999992	4.00	4700
3.7	20	1879.999996	0.00	4700
3.7	30	1879.999994	2.00	4700
3.7	40	1879.999990	6.00	4700
3.7	50	1879.999996	0.00	4700

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 25℃				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	-30	836.600005	1.00	2091
3.7	-20	836.600008	-2.00	2091
3.7	-10	836.599989	17.00	2091
3.7	0	836.599998	8.00	2091
3.7	10	836.600005	1.00	2091
3.7	20	836.600006	0.00	2091
3.7	30	836.600003	3.00	2091
3.7	40	836.600001	5.00	2091
3.7	50	836.599996	10.00	2091

Note: The battery is rated 3.7V dc.

11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

11.2. Test Set-up:

Refer to section 10.2 in this report

11.3. Measurement Procedure:

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

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

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

11.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz @ 25℃				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.25	25.00	836.599964	4.00	2091.00
3.70	25.00	836.599968	0.00	2091.00
3.20	25.00	836.599971	-3.00	2091.00
2.9 (End Point)	25.00	836.599804	164.00	2091.00

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz @ 25℃				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.25	25	1879.999945	-10.00	4700
3.70	25	1879.999935	0.00	4700
3.20	25	1879.999958	-23.00	4700
2.90 (Endpoint)	25	1879.999972	-37.00	4700

Note: The battery is rated 3.7V dc.

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)		
4.25	25	1879.999992	4.00	4700
3.7	25	1879.999996	0.00	4700
3.2	25	1879.999982	14.00	4700
2.9 (Endpoint)	25	1879.999976	20.00	4700

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 25℃				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.25	25.00	836.599998	7.00	2091.00
3.7	25.00	836.600005	0.00	2091.00
3.2	25.00	836.599999	6.00	2091.00
2.9 (Endpoint)	25.00	836.599994	11.00	2091.00

Note: The battery is rated 3.7V dc.

12. AC POWER LINE CONDUCTED EMISSION TEST

12.1. Standard Applicable:

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

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

12.2. EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was plug-in DC power adaptort and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 120Vac/60Hz power source.

12.3. Measurement Procedure:

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

12.4. Measurement Equipment Used:

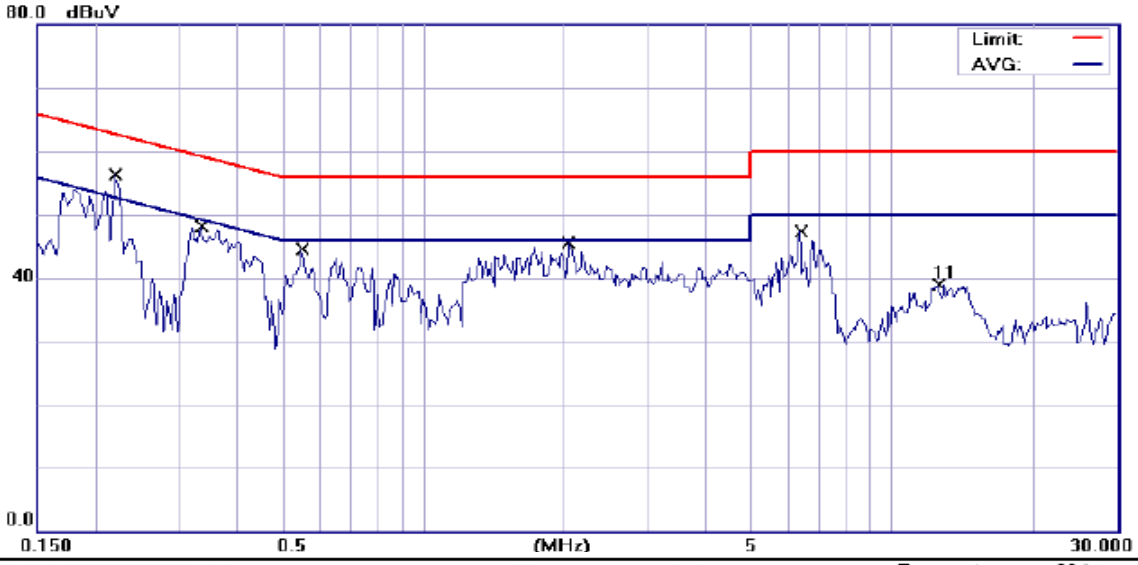
Refer to section 2.4 in this report

12.5. Measurement Result;

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

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GPRS 850 LINK			Test Date:	Dec. 27, 2009
Temperature:	22 ℃	Humidity:	61 %	Test By:	Bondi

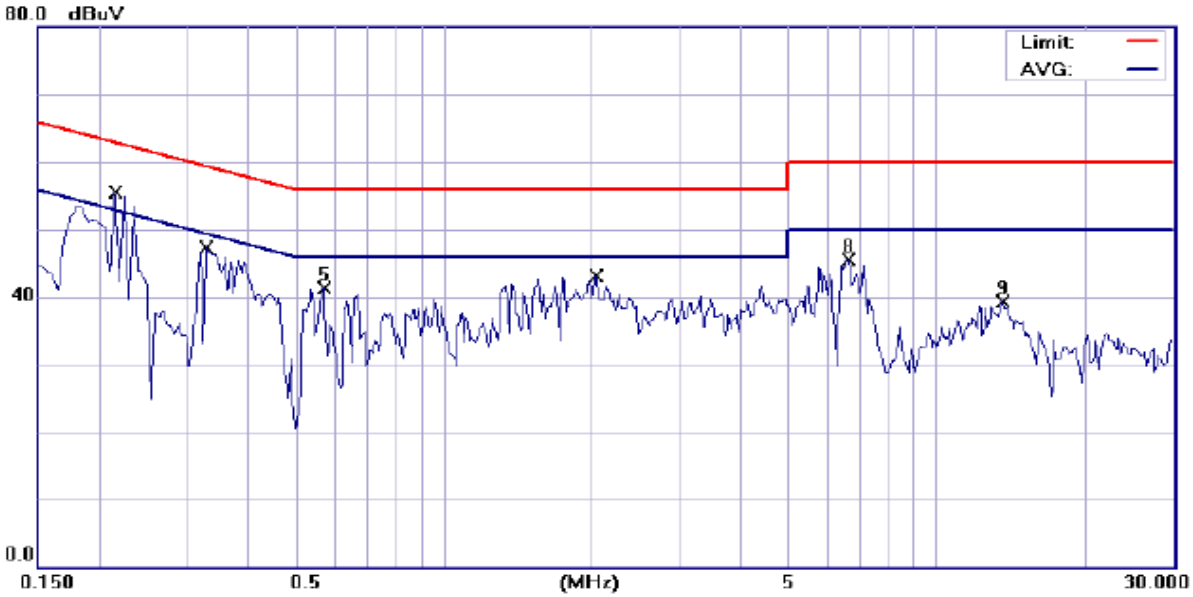


Site SGS CONDUCTED #1
Limit: CISPR22/11/EN55022 Class B
EUT: Mobile Internet Device
M/N: M01M
Note: GPRS 850 link

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

Temperature: 23 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2201	49.67	0.12	49.79	62.82	-13.03	QP	
2		0.2201	25.92	0.12	26.04	52.82	-26.78	AVG	
3		0.3345	40.81	0.09	40.90	59.34	-18.44	QP	
4		0.3345	20.66	0.09	20.75	49.34	-28.59	AVG	
5		0.5504	38.58	0.07	38.65	56.00	-17.35	QP	
6		0.5504	21.27	0.07	21.34	46.00	-24.66	AVG	
7		2.0347	36.32	0.13	36.45	56.00	-19.55	QP	
8		2.0347	20.13	0.13	20.26	46.00	-25.74	AVG	
9		6.3535	38.42	0.22	38.64	60.00	-21.36	QP	
10		6.3535	27.12	0.22	27.34	50.00	-22.66	AVG	
11		12.5600	38.55	0.41	38.96	60.00	-21.04	peak	



Site SGS CONDUCTED #1
Limit: CISPR22/11/EN55022 Class B
EUT: Mobile Internet Device
M/N: M01M
Note: GPRS850 link

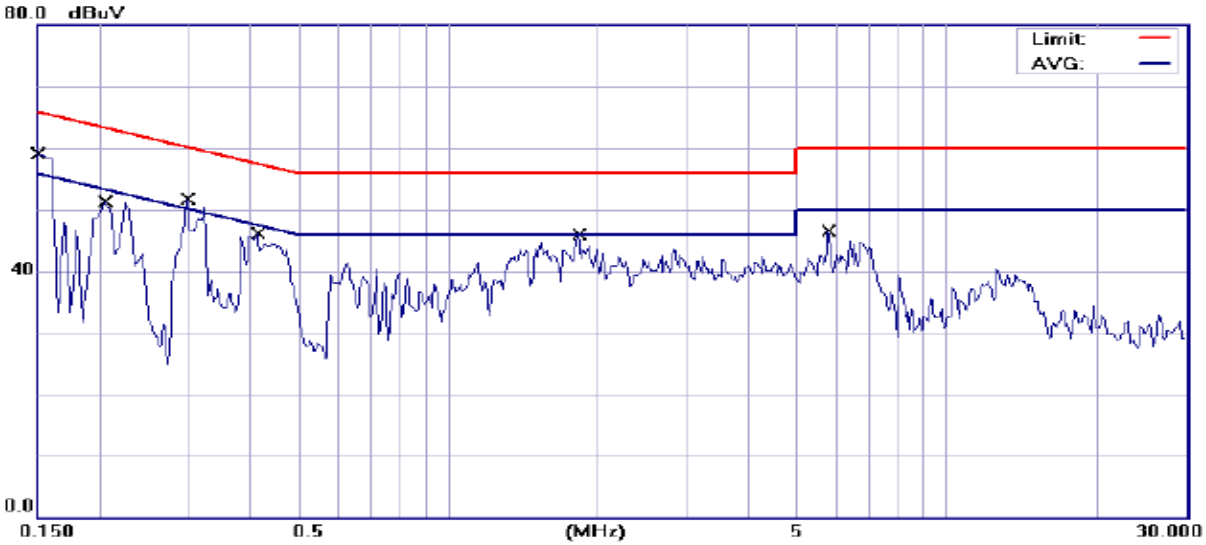
Phase: N
Power: AC 120V/60Hz
Distance:

Temperature: 23 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2144	48.38	0.14	48.52	63.03	-14.51	QP	
2		0.2144	21.88	0.14	22.02	53.03	-31.01	AVG	
3		0.3295	39.79	0.12	39.91	59.46	-19.55	QP	
4		0.3295	15.43	0.12	15.55	49.46	-33.91	AVG	
5		0.5700	41.30	0.10	41.40	56.00	-14.60	peak	
6		2.0278	34.83	0.15	34.98	56.00	-21.02	QP	
7		2.0278	16.18	0.15	16.33	46.00	-29.67	AVG	
8		6.6200	45.21	0.25	45.46	60.00	-14.54	peak	
9		13.5800	38.81	0.43	39.24	60.00	-20.76	peak	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GPRS 1900 Link			Test Date:	Dec. 27, 2009
Temperature:	22 ℃	Humidity:	61 %	Test By:	Bondi

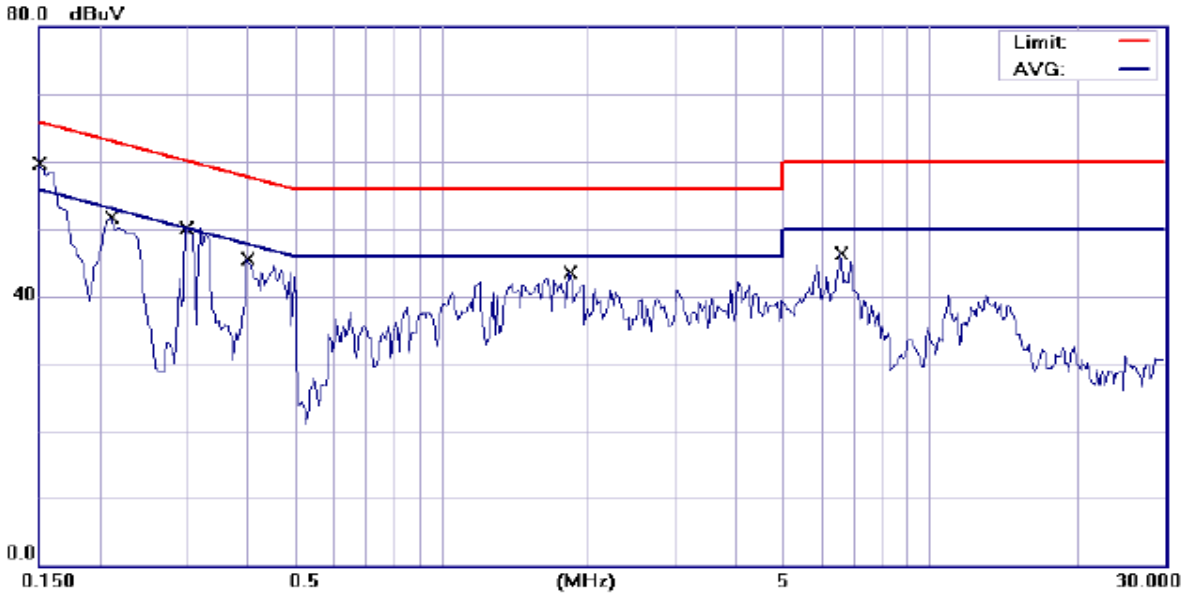


Site SGS CONDUCTED #1
Limit: CISPR22/11/EN55022 Class B
EUT: Mobile Internet Device
M/N: M01M
Note: GPRS1900 link

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

Temperature: 23 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1508	51.56	0.17	51.73	65.96	-14.23	QP	
2		0.1508	26.74	0.17	26.91	55.96	-29.05	AVG	
3		0.2049	47.38	0.12	47.50	63.41	-15.91	QP	
4		0.2049	27.71	0.12	27.83	53.41	-25.58	AVG	
5		0.2993	41.03	0.10	41.13	60.26	-19.13	QP	
6		0.2993	15.49	0.10	15.59	50.26	-34.67	AVG	
7		0.4151	41.60	0.08	41.68	57.55	-15.87	QP	
8		0.4151	25.52	0.08	25.60	47.55	-21.95	AVG	
9		1.8209	38.24	0.12	38.36	56.00	-17.64	QP	
10		1.8209	24.41	0.12	24.53	46.00	-21.47	AVG	
11		5.7888	36.88	0.20	37.08	60.00	-22.92	QP	
12		5.7888	24.77	0.20	24.97	50.00	-25.03	AVG	



Site SGS CONDUCTED #1
Limit: CISPR22/11/EN55022 Class B
EUT: Mobile Internet Device
M/N: M01M
Note: GPRS1900 link

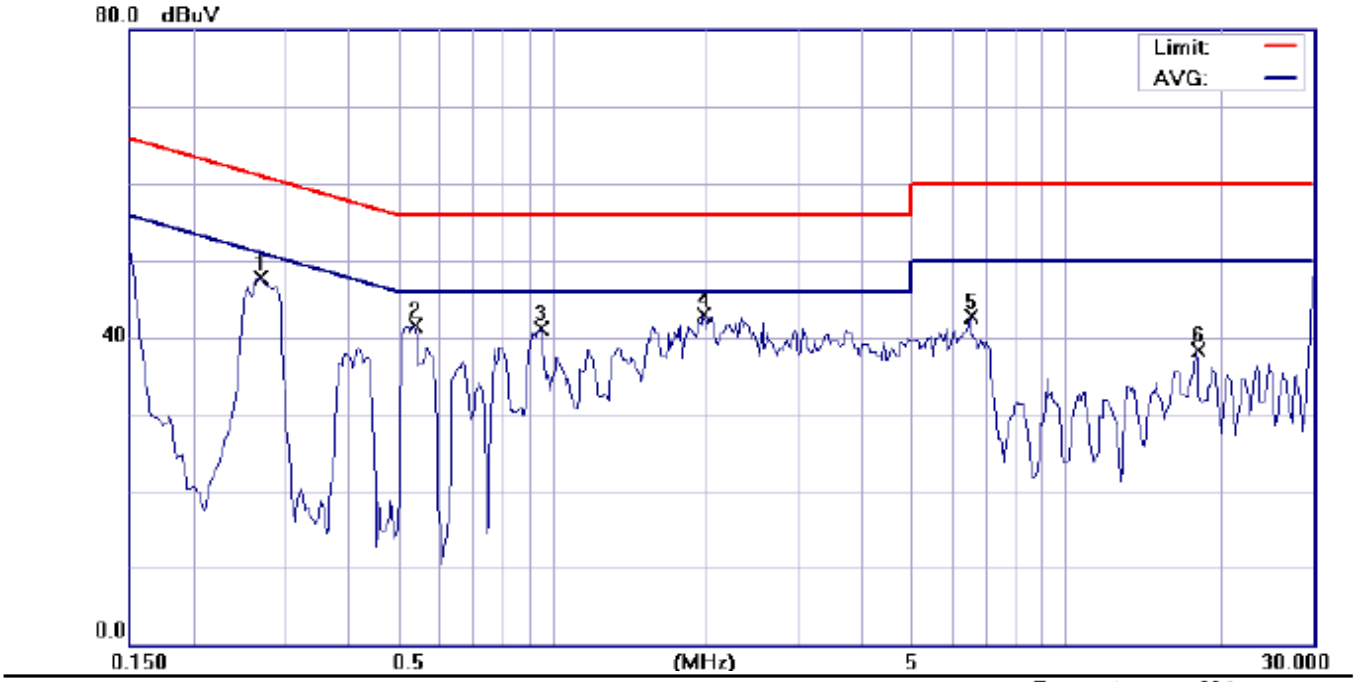
Phase: N
Power: AC 120V/60Hz
Distance:

Temperature: 23 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1506	48.94	0.19	49.13	65.97	-16.84	QP	
2		0.1506	22.26	0.19	22.45	55.97	-33.52	AVG	
3		0.2098	44.42	0.14	44.56	63.21	-18.65	QP	
4		0.2098	23.00	0.14	23.14	53.21	-30.07	AVG	
5		0.2999	33.89	0.13	34.02	60.25	-26.23	QP	
6		0.2999	10.89	0.13	11.02	50.25	-39.23	AVG	
7		0.3999	26.57	0.11	26.68	57.86	-31.18	QP	
8		0.3999	8.26	0.11	8.37	47.86	-39.49	AVG	
9		1.8265	32.84	0.14	32.98	56.00	-23.02	QP	
10		1.8265	13.94	0.14	14.08	46.00	-31.92	AVG	
11		6.5853	37.40	0.25	37.65	60.00	-22.35	QP	
12		6.5853	23.64	0.25	23.89	50.00	-26.11	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMA Band II LINK			Test Date:	Dec. 27, 2009
Temperature:	22 ℃	Humidity:	61 %	Test By:	Bondi

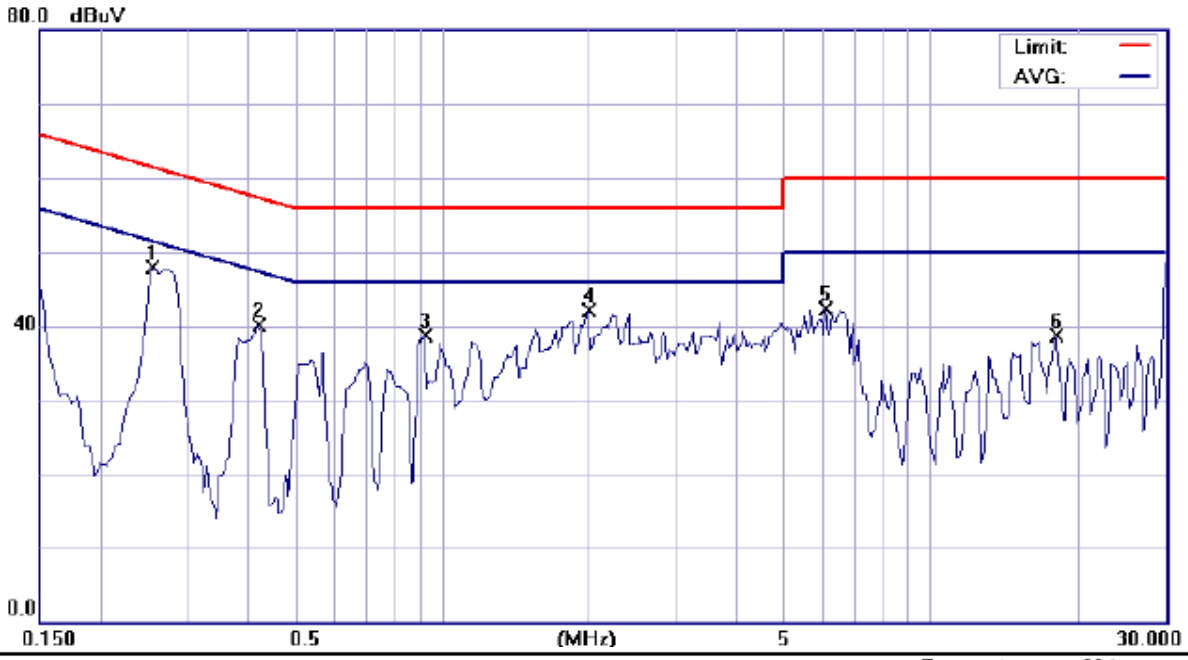


Site SGS CONDUCTED #1
Limit: CISPR22/11/EN55022 Class B
EUT: Mobile Internet Device
M/N: M01M
Note: WCDMA B2 link

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

Temperature: 23 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2700	47.69	0.11	47.80	61.12	-13.32	peak	
2		0.5400	41.42	0.07	41.49	56.00	-14.51	peak	
3		0.9500	40.92	0.09	41.01	56.00	-14.99	peak	
4	*	1.9600	42.78	0.13	42.91	56.00	-13.09	peak	
5		6.5200	42.42	0.23	42.65	60.00	-17.35	peak	
6		18.0000	38.05	0.30	38.35	60.00	-21.65	peak	



Site SGS CONDUCTED #1
Limit: CISPR22/11/EN55022 Class B
EUT: Mobile Internet Device
M/N: M01M
Note: WCDMA B2 link

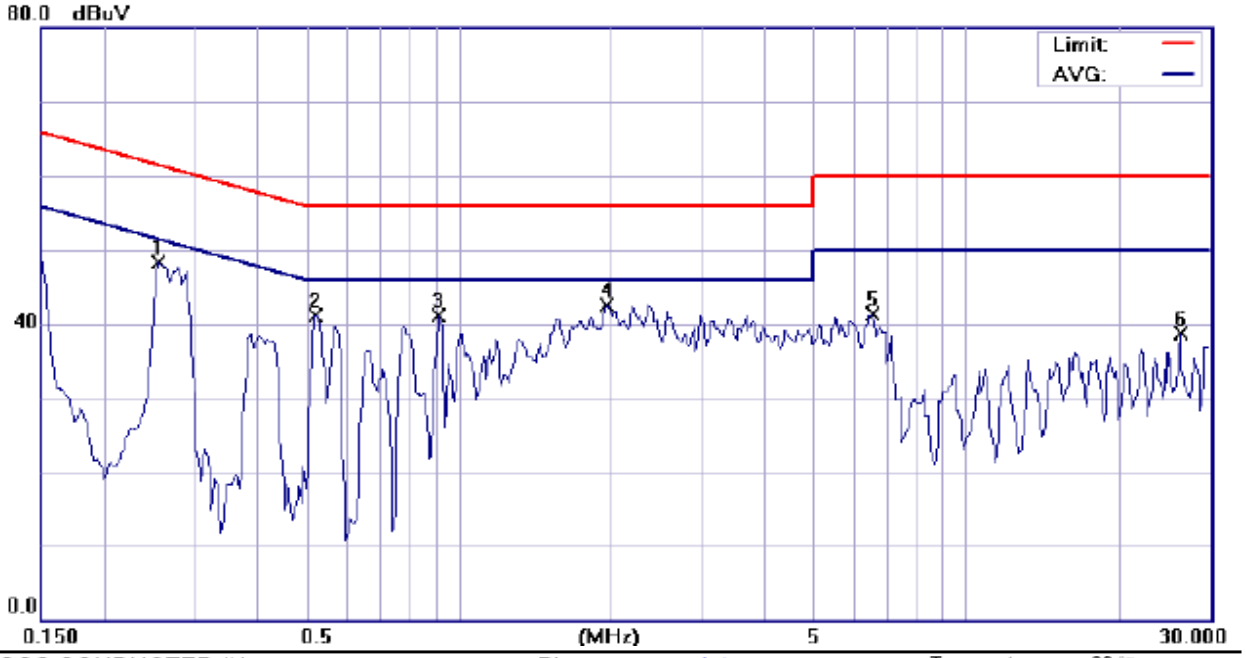
Phase: N
Power: AC 120V/60Hz
Distance:

Temperature: 23 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2550	47.83	0.13	47.96	61.59	-13.63	peak	
2		0.4200	39.94	0.11	40.05	57.45	-17.40	peak	
3		0.9200	38.59	0.12	38.71	56.00	-17.29	peak	
4		1.9900	41.86	0.15	42.01	56.00	-13.99	peak	
5		6.0800	42.11	0.23	42.34	60.00	-17.66	peak	
6		17.9800	38.47	0.31	38.78	60.00	-21.22	peak	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMA Band V LINK			Test Date:	Dec. 27, 2009
Temperature:	22 ℃	Humidity:	61 %	Test By:	Bondi

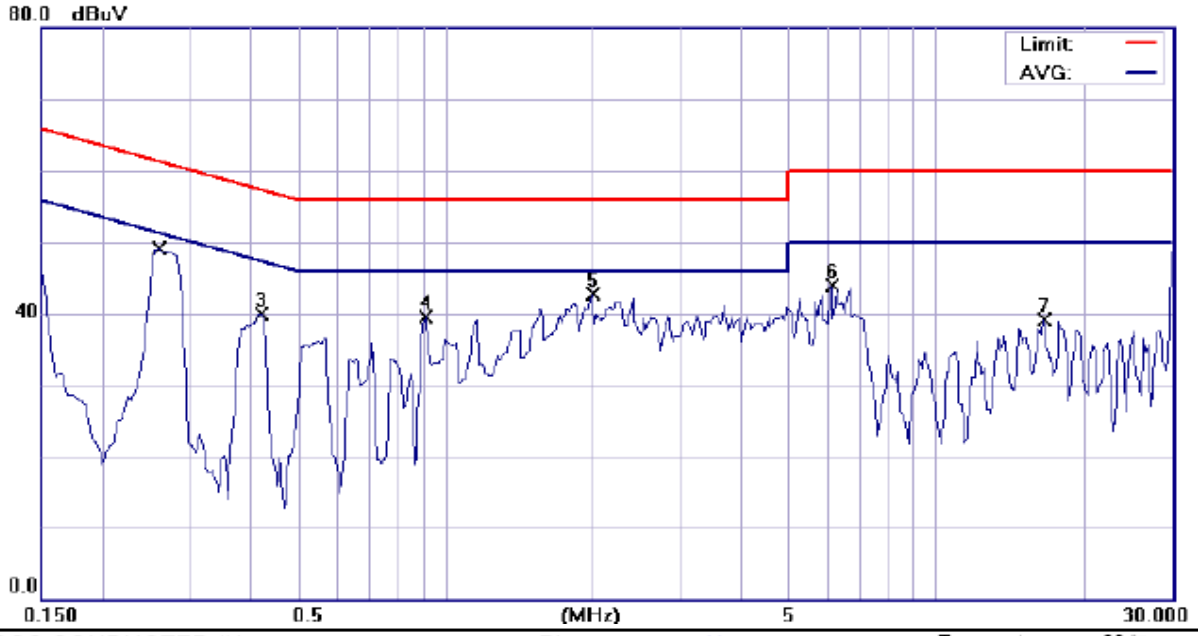


Site SGS CONDUCTED #1
Limit: CISPR22/11/EN55022 Class B
EUT: Mobile Internet Device
M/N: M01M
Note: WCDMA B5 link

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

Temperature: 23 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2550	48.23	0.11	48.34	61.59	-13.25	peak	
2		0.5200	41.05	0.07	41.12	56.00	-14.88	peak	
3		0.9100	41.02	0.09	41.11	56.00	-14.89	peak	
4		1.9500	42.36	0.13	42.49	56.00	-13.51	peak	
5		6.5000	41.06	0.23	41.29	60.00	-18.71	peak	
6		26.4200	38.30	0.34	38.64	60.00	-21.36	peak	



Site SGS CONDUCTED #1
Limit: CISPR22/11/EN55022 Class B
EUT: Mobile Internet Device
M/N: M01M
Note: WCDMA B5 link

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

Temperature: 23 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2577	46.32	0.13	46.45	61.51	-15.06	QP	
2		0.2577	25.45	0.13	25.58	51.51	-25.93	AVG	
3		0.4200	39.89	0.11	40.00	57.45	-17.45	peak	
4		0.9100	39.42	0.12	39.54	56.00	-16.46	peak	
5	*	1.9900	42.49	0.15	42.64	56.00	-13.36	peak	
6		6.1200	43.64	0.23	43.87	60.00	-16.13	peak	
7		16.5400	38.76	0.36	39.12	60.00	-20.88	peak	