ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART C REQUIREMENT

OF

Product Name:	**Offender Tracking Device (OTD)**
Brand Name:	**N/A**
Marketing Nam e:	**ReliAlert XC**
Model No.:	**OTD 3.8**
Model Difference:	**N/A**
FCC ID:	**TPO-OTD38**
Report No.:	**E2/2014/10019**
Issue Date:	**Mar. 14, 2014**
FCC Rule Part:	**2 , 22H & 24E & 27C**
Prepared for:	**SecureAlert, Inc**
	150 West Civic Center Drive, Sandy, Utah 84070 USA
Prepared by:	**SGS Taiwan Ltd.**
	Electronics & Communication Laboratory
	No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan 333

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VERIFICATION OF COMPLIANCE

Applicant:	SecureAlert, Inc 150 West Civic Center Drive, Sandy, Utah 84070 USA
Product Name:	Offender Tracking Device (OTD)
Brand Name:	N/A
Marketing Name:	ReliAlert XC
Model No.:	OTD 3.8
Model Difference:	N/A
FCC ID:	TPO-OTD38
File Number:	E2/2014/10019
Date of test:	Mar. 03, 2014 ~ Mar. 13, 2014
Date of EUT Received:	Mar. 03, 2014

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 PART 22 subpart H, PART 24 subpart E, PART 27 subpart C.

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

Test By:	Jazz Huang	***Date***	Mar. 14, 2014
	Jazz Huang / Sr. Engineer		
Prepared By:	Tiffany Kao	***Date***	Mar. 14, 2014
	Tiffany Kao / Clerk		
Approved By:	Jim Chang	***Date***	Mar. 14, 2014
	Jim Chang / Supervisor		

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Version

Version No.	Date	Description
00	Mar. 14, 2014	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Offender Tracking Device (OTD)	
Brand Name:	N/A	
Marketing Name:	ReliAlert XC	
Model No.:	OTD 3.8	
Model Difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one Part No.: 1242-6715.3, Length: 100 cm	
Hardware Version:	3.8.0	
Software Version:	v1835	
Power Supply:	3.6Vdc from rechargeable battery or 6Vdc from AC/DC adapter	
	Battery:	Model No.: N/A, Supplier: N/A
	Adapter:	Model No.: GIP-653T, Supplier: GIPOW

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GSM / WCDMA:

	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power.	GSM/GPRS 850, Class 10	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850, Class 10	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900, Class 10	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900, Class 10	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
Type of Emission:	GSM 850: 244KGXW, GSM 1900: 246KGXW GPRS 850: 243KGXW, GPRS 1900: 244KGXW EDGE 850: 252KG7W, EDGE 1900: 254KG7W WCDMA Band II: 4M06F9W, WCDMA Band IV: 4M07F9W, WCDMA Band V: 4M07F9W HSDPA Band II: 4M07F9W, HSDPA Band IV: 4M06F9W, HSDPA Band V: 4M06F9W HSUPA Band II: 4M07F9W, HSUPA Band IV: 4M06F9W, HSUPA Band V: 4M08F9W		
IMEI:	351581054172113		

This test report applies for 850 / 1700 / 1900 GSM / GPRS / EDGE, WCDMA / HSDPA / HSUPA Band II/IV/V.

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.6	320
GSM 1900	3.6	250
GPRS 850	3.6	320
GPRS 1900	3.6	250
EDGE 850	3.6	260
EDGE 1900	3.6	190
WCDMA B2	3.6	540
WCDMA B4	3.6	450
WCDMA B5	3.6	500
HSUPA B2	3.6	470
HSUPA B4	3.6	400
HSUPA B5	3.6	450
HSDPA B2	3.6	480
HSDPA B4	3.6	410
HSDPA B5	3.6	450

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

This submittal(s) (test report) is intended for **FCC ID: TPO-OTD38** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part27 subpart C of the FCC CFR 47 Rules.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

TS 151 010-1 is used to set, and measure the output power.

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

KDB971168 D01 Power Meas license Digital System v01 as the supplemental guideline to conduct the measurement, including Peak to Power Average Ratio, Average Power over the fundamental signal BW (EIRP/ERP) and Signal Bandwidth.

1.4. 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.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan 333 which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. FCC Registration Number are: 990257, Canada Registration Number: 4620A-4.

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.

All equipment is calibrated externally and traceable to SI (International System of Unit).

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C and RSS-Gen Issue 3, 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.

2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C and RSS-Gen Issue 3, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 of ANSI C63.4:2009.

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2.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/26/2013	10/25/2014
Power Meter	Anritsu	ML2496A	1326001	06/28/2013	06/27/2014
Power Sensor	Anritsu	MA2411B	1315048	06/28/2013	06/27/2014
Power Sensor	Anritsu	MA2411B	1315049	06/28/2013	06/27/2014
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	HY-144	01/6/2014	01/05/2015
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	HY-145	01/06/2014	01/05/2015
Coaxial Cable 80cm	WOKEN	00100A1F1A 185C	HY-143	01/06/2014	01/05/2015
DC Block	Mini-Circuits	BLK-18-S+	HY-146	01/06/2014	01/05/2015
DC Block	PASTERNACK	PE8210	HY-147	01/06/2014	01/05/2015
Splitter	RF-LAMBAD	RFLT2W1G1 8G	11-JSPF412-019	01/06/2014	01/05/2015
Splitter	WOKEN	-	DOM35LW1A2	01/06/2014	01/05/2015
Attenuator	Mini-Circuits	BW-S10W2+	HY-148	01/06/2014	01/05/2015
Attenuator	WOKEN	218FS-10	HY-149	01/06/2014	01/05/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/20/2013	06/19/2014
DC Power Supply	HOLA	DP-3003	D707003S	N.C.R.	N.C.R.
DC Power Supply	DHA	DPS-3003	9411005787	N.C.R.	N.C.R.
DC Power Supply	Agilent	E3640A	MY53140006	N.C.R.	N.C.R.

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Conducted Emission (measured at antenna port) Test Site					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Signal Analyzer	R&S	FSV 40	101493	01/07/2014	01/06/2015
EMI Test Receiver	R&S	ESCI 7	100950	01/11/2014	01/10/2015
Broadband Antenna	TESEQ	CBL 6112D	35240	01/17/2014	01/16/2015
Horn Antenna	ETS-Lindgren	3117	00143272	01/27/2014	01/26/2015
Horn Antenna	ETS-Lindgren	3160-09	00117911	01/22/2014	01/21/2015
Horn Antenna	ETS-Lindgren	3160-10	00117783	01/22/2014	01/21/2015
Pre-Amplifier	R&S	SCU-18	10203	04/29/2013	04/28/2014
Pre-Amplifier	EM Electronics Corp.	EMC330	980096	01/24/2014	01/23/2015
Pre-Amplifier	EM Electronics Corp.	EMC184045	980135	01/24/2014	01/23/2015
Coaxial Cable	Huber+Suhner	SAC-C TX-30M-1GHz	TX1	04/22/2013	04/21/2014
Coaxial Cable	Huber+Suhner	SAC-C TX-1-26.5GHz	TX2	04/22/2013	04/21/2014
Coaxial Cable	Huber+Suhner	SAC-C RX-150k-30MHz	RX1	04/22/2013	04/21/2014
Coaxial Cable	Huber+Suhner	SAC-C RX-30M-1GHz	RX2	04/22/2013	04/21/2014
Coaxial Cable	Huber+Suhner	SAC-C RX-1-26.5GHz	RX3	04/22/2013	04/21/2014
Filter Bank	R&S	TS8996	SCIN.EMC.1023.12	04/22/2013	04/21/2014
Attenuator	WOKEN	218FS-10	HY-151	01/06/2014	01/05/2015
Controller	Chance Most	886	N/A	N.C.R.	N.C.R.
Antenna Master	Chance Most	N/A	N/A	N.C.R.	N.C.R.
Turn Table	Chance Most	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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2.5. Configuration of Tested System

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

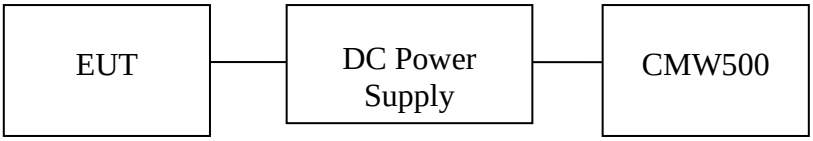

Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

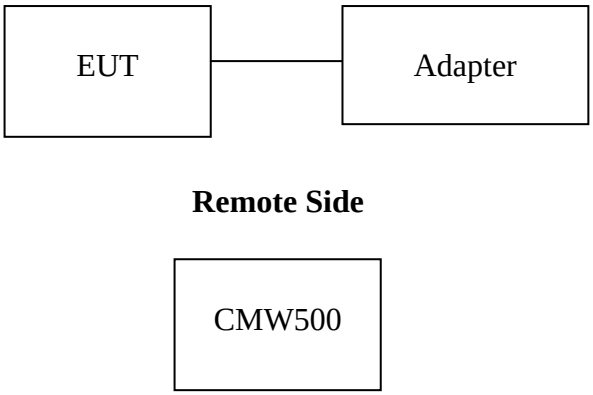

Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMW500	131121-VR	shielded	Un-shielded
2.	DC Power Supply	Agilent	E3640A	MY53140006	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)§27.50(d)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(h)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(2) §22.355 §24.235 §27.54	Frequency Stability vs. Voltage	Compliant

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Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	37.60	ERP	5.754
GSM 1900 Band	29.28	EIRP	0.847
GPRS 850 Band	37.19	ERP	5.236
GPRS 1900 Band	29.64	EIRP	0.920
EDGE 850 Band	33.66	ERP	2.323
EDGE 1900 Band	26.60	EIRP	0.457
WCDMA Band II	25.40	EIRP	0.347
WCDMA Band IV	26.19	EIRP	0.416
WCDMA Band V	30.62	ERP	1.153
HSUPA Band II	24.90	EIRP	0.309
HSUPA Band IV	26.46	EIRP	0.443
HSUPA Band V	30.17	ERP	1.040
HSDPA Band II	24.32	EIRP	0.270
HSDPA Band IV	26.25	EIRP	0.422
HSDPA Band V	30.27	ERP	1.064

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The list of channel selected to conduct the measurements

GSM/GPRS/EDGE 850:

Channel Low: AFRCN 128 at 824.2MHz, Channel Mid: AFRCN 190 at 836.6MHz, Channel High: AFRCN 251 at 848.8MHz.

GSM/GPRS/EDGE 1900:

Channel Low: AFRCN 512 at 1850.2MHz, Channel Mid: AFRCN 661 at 1880.0MHz, Channel High AFRCN 810 at 1909.8MHz

WCDMA/HSPA BII:

Channel Low: UAFRCN 9262 at 1852.4MHz, Channel Mid: UAFRCN 9400 at 1880.0MHz, Channel High: UAFRCN 9538 at 1907.6MHz.

WCDMA/HSPA BIV:

Channel Low: UAFRCN 1312 at 1712.4MHz, Channel Mid: UAFRCN 1413 at 1732.6MHz, Channel High: UAFRCN 1513 at 1752.6MHz.

WCDMA/HSPA BV:

Channel Low: UAFRCN 4132 at 826.4MHz, Channel Mid: UAFRCN 4183 at 836.6MHz, Channel High: UAFRCN 4233 at 846.6MHz.

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

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.42 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization =+/- 4.62dB
99% Occupied Bandwidth	+/- 123.36 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.55 dB
Peak to Average Ratio	+/- 1.55 dB
Frequency Stability vs. Temperature	+/- 123.36 Hz
Frequency Stability vs. Voltage	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : **Vertical**)	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : **Horizontal**)	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6. RF POWER OUTPUT MEASUREMENT

6.1. Standard Applicable:

According to FCC §2.1046.

FCC 22.913(a) Mobile station are limited to 7W.
FCC 24.232(c) Peak Power Measurement limited to 2W
FCC 24.232(c) Equipment must employ means to limit the power to the minimum necessary for successful communication.
Part 27, 50(d)(2) Portable stations are limited to 1W

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

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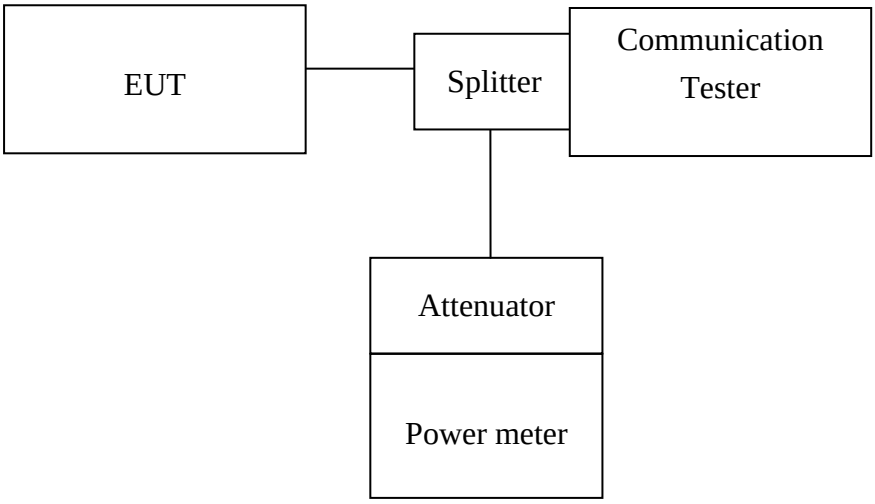
6.2. Test Set-up:



Note: *Measurement setup for testing on Antenna connector*

6.3. 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. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

Necessary Communication complying with 24.232 (c) and 27.5(d)(2)

Set CMW500 (base-station simulator) MS Signal with packet data submenu; SLOT Configuration

Set appropriate level to verify if or not power on mobile station's link with simulator still exists.

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5. Measurement Result:

6.5.1. RF Conducted Output Power

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

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 850	824.2	128	30.00	29.90
	836.6	190	30.10	30.00
	848.8	251	30.40	30.30

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 1900	1850.2	512	30.40	30.20
	1880.0	661	30.30	30.20
	1909.8	810	30.20	30.10

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	29.90	29.80	29.90	29.70
	836.6	190	30.00	29.90	30.00	29.90
	848.8	251	30.30	30.20	30.30	30.10

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 1900	1850.2	512	30.40	30.20	30.40	30.20
	1880.0	661	30.30	30.10	30.30	30.20
	1909.8	810	30.20	30.10	30.20	30.00

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
EDGE 850	824.2	128	27.10	24.40	27.00	24.30
	836.6	190	27.10	24.40	27.00	24.40
	848.8	251	27.30	24.80	27.30	24.70

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
EDGE 1900	1850.2	512	29.60	26.40	29.50	26.40
	1880.0	661	29.60	26.40	29.50	26.40
	1909.8	810	29.50	26.30	29.40	26.30

Cable loss offset Low Band: 0.8dB

Cable loss offset High Band: 1dB

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6.5.1.2.: 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	26.42	23.78
	1880.0	9400	26.40	23.71
	1907.6	9538	25.99	23.31

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band IV	1712.4	1312	26.56	23.75
	1732.6	1412	26.57	23.67
	1752.6	1513	26.33	23.53

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band V	826.4	4132	23.99	21.13
	836.6	4183	23.67	20.95
	846.6	4233	23.70	21.05

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band II	1852.4	9262	25.81	22.32
	1880.0	9400	25.98	22.24
	1907.6	9538	26.06	22.32

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band IV	1712.4	1312	26.34	22.65
	1732.6	1412	26.19	23.21
	1752.6	1513	26.21	22.50

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band V	826.4	4132	23.86	20.04
	836.6	4183	23.72	19.91
	846.6	4233	23.63	20.63

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band II	1852.4	9262	26.00	22.78
	1880.0	9400	24.78	22.24
	1907.6	9538	24.57	21.85

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band IV	1712.4	1312	26.49	22.82
	1732.6	1412	26.47	22.48
	1752.6	1513	26.08	22.44

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band V	826.4	4132	23.88	19.34
	836.6	4183	23.74	19.94
	846.6	4233	23.97	20.14

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

Cable loss offset Low Band: 0.8dB

Cable loss offset High Band: 1dB

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6.5.1.3.: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 RMS 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.

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	23.95	23.60	23.17	20.3dBm – 25.7dBm	Pass
	2	23.66	23.57	23.16	20.3dBm – 25.7dBm	Pass
	3	23.47	23.15	22.64	19.8dBm – 25.7dBm	Pass
	4	23.54	23.16	22.76	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1412	1513		
HSDPA (B4)	1	23.92	23.56	23.39	20.3dBm – 25.7dBm	Pass
	2	23.63	23.53	23.38	20.3dBm – 25.7dBm	Pass
	3	23.44	23.11	22.86	19.8dBm – 25.7dBm	Pass
	4	23.51	23.12	22.98	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	20.22	20.11	20.47	20.3dBm – 25.7dBm	Pass
	2	20.36	20.14	20.22	20.3dBm – 25.7dBm	Pass
	3	19.76	19.63	19.98	19.8dBm – 25.7dBm	Pass
	4	19.81	19.67	20.04	19.8dBm – 25.7dBm	Pass

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6.5.1.4.: 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 RMS 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 MPRs are implemented as per following sub-tests.

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.70	23.69	23.25	18.8dBm – 25.7dBm	Pass
	2	21.75	21.76	21.29	16.8dBm – 25.7dBm	Pass
	3	22.76	22.71	22.33	17.8dBm – 25.7dBm	Pass
	4	21.88	21.81	21.33	16.8dBm – 25.7dBm	Pass
	5	23.59	23.55	23.16	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1412	1513		
HSUPA(B4)	1	23.67	23.65	23.47	18.8dBm – 25.7dBm	Pass
	2	21.72	21.72	21.51	16.8dBm – 25.7dBm	Pass
	3	22.73	22.67	22.55	17.8dBm – 25.7dBm	Pass
	4	21.85	21.77	21.55	16.8dBm – 25.7dBm	Pass
	5	23.56	23.51	23.38	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	20.39	20.18	20.27	18.8dBm – 25.7dBm	Pass
	2	18.45	18.26	18.31	16.8dBm – 25.7dBm	Pass
	3	19.43	19.24	19.35	17.8dBm – 25.7dBm	Pass
	4	18.50	18.32	18.39	16.8dBm – 25.7dBm	Pass
	5	20.25	20.01	20.16	18.8dBm – 25.7dBm	Pass

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6.5.2. Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	30.04	28.53	26.65	24.64	22.60	20.70	18.63	16.60	14.70

PCL	9	10	11	12	13	14	15
Output power (dBm)	12.68	10.77	8.67	6.73	4.52	1.81	-0.30

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, IV, 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 -52.3dBm. The power variation can be 0.1dB step by setting.

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7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

According to FCC §2.1046

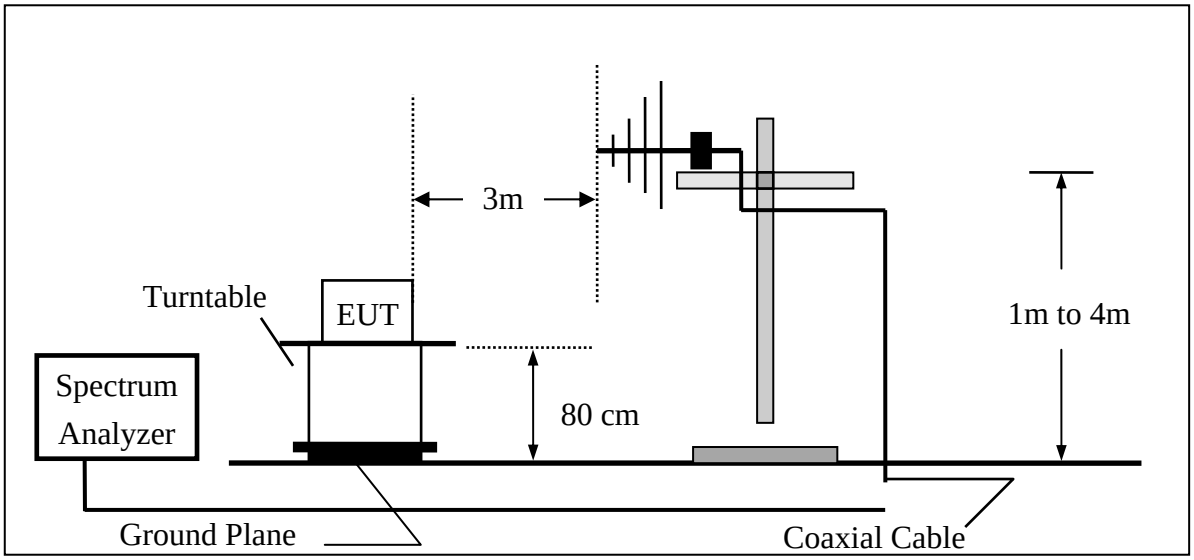
FCC 22.913(a) Mobile station is limited to 7W ERP.

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

FCC 27.50(d)(2) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

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



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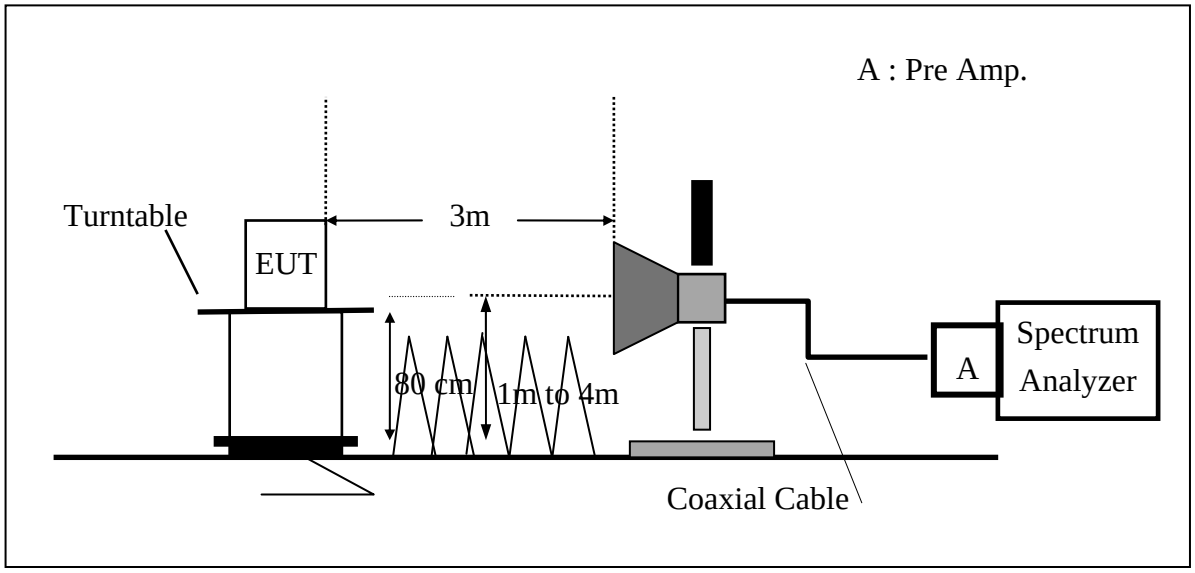
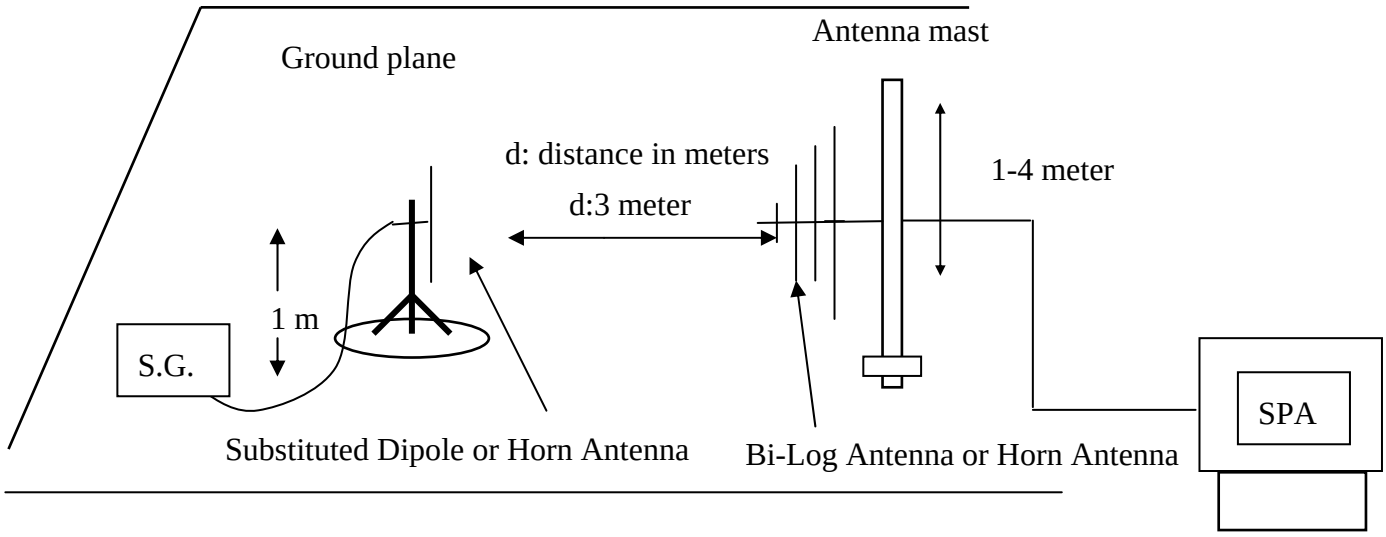
(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure:

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

During the measurement, the EUT was 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)

Spectrum setting:

1. Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and VBW > =3xRBW.

Or,

2. KDB 971168 D01 Power Meas License Digital Systems v01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;

Set span = 2 X occupied BW;

Set RBW ≈ 1~5% of the span, not to exceed 1 MHz

Set VBW = 3 x RBW;

Select average power (RMS) detector

Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweet time = 601*10^-3 = 6s.

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Activate trace averaging routine over a minimum of 10 sweeps;
Activate marker/span pair and set span = signal or channel bandwidth;
Activate the band/interval power marker function;
Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5. Measurement Result: (Peak) –using option of peak measurement

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	H	824.20	128	V	37.35	-2.03	4.00	31.31	38.45
				H	41.51	-2.03	4.00	35.47	38.45
		836.60	190	V	38.36	-1.91	3.85	32.60	38.45
				H	43.11	-1.91	3.85	37.35	38.45
		848.80	251	V	38.50	-1.81	3.78	32.91	38.45
				H	42.61	-1.81	3.78	37.02	38.45
	E1	824.20	128	V	31.84	-2.03	4.00	25.81	38.45
				H	42.20	-2.03	4.00	36.17	38.45
		836.60	190	V	31.81	-1.91	3.85	26.05	38.45
				H	43.36	-1.91	3.85	**37.60**	38.45
		848.80	251	V	32.77	-1.809	3.78	27.18	38.45
				H	42.99	-1.81	3.78	37.40	38.45
	E2	824.20	128	V	31.36	-2.03	4.00	25.32	38.45
				H	41.00	-2.03	4.00	34.96	38.45
		836.60	190	V	31.50	-1.91	3.85	25.75	38.45
				H	42.62	-1.91	3.85	36.87	38.45
		848.80	251	V	31.70	-1.81	3.78	26.11	38.45
				H	43.08	-1.81	3.78	37.49	38.45

Remark：

(1) The RBW,VBW of SPA for measurement RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	H	1850.20	512	V	22.49	5.15	4.6	29.25	33.01
				H	17.75	5.15	4.6	18.30	33.01
		1880.00	661	V	21.68	5.14	4.65	22.18	33.01
				H	17.38	5.14	4.65	17.88	33.01
		1909.80	810	V	22.03	5.13	4.69	22.47	33.01
				H	15.84	5.13	4.69	16.28	33.01
	E1	1850.20	512	V	21.53	5.15	4.6	22.08	33.01
				H	27.03	5.15	4.6	27.59	33.01
		1880.00	661	V	20.86	5.14	4.65	21.36	33.01
				H	25.59	5.14	4.65	26.09	33.01
		1909.80	810	V	21.17	5.13	4.69	21.61	33.01
				H	24.74	5.13	4.69	25.18	33.01
	E2	1850.20	512	V	15.85	5.15	4.6	16.41	33.01
				H	28.72	5.15	4.6	**29.28**	33.01
		1880.00	661	V	15.42	5.14	4.65	15.92	33.01
				H	26.62	5.14	4.65	27.11	33.01
		1909.80	810	V	16.04	5.13	4.69	16.48	33.01
				H	26.32	5.13	4.69	26.77	33.01

Remark：

(1) The RBW,VBW of SPA for measurement RBW=300K, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	H	824.20	128	V	33.71	-2.03	4.00	27.68	38.45
				H	36.99	-2.03	4.00	30.96	38.45
		836.60	190	V	34.45	-1.91	3.85	28.69	38.45
				H	38.66	-1.91	3.85	32.91	38.45
		848.80	251	V	34.06	-1.81	3.78	28.46	38.45
				H	37.94	-1.81	3.78	32.35	38.45
	E1	824.20	128	V	38.14	-2.03	4.00	32.11	38.45
				H	38.54	-2.03	4.00	32.50	38.45
		836.60	190	V	38.88	-1.91	3.85	33.12	38.45
				H	40.75	-1.91	3.85	34.99	38.45
		848.80	251	V	39.35	-1.81	3.78	33.76	38.45
				H	41.47	-1.81	3.78	35.87	38.45
	E2	824.20	128	V	31.47	-2.03	4.00	25.44	38.45
				H	42.32	-2.03	4.00	36.28	38.45
		836.60	190	V	32.46	-1.91	3.85	26.71	38.45
				H	42.94	-1.91	3.85	37.18	38.45
		848.80	251	V	33.32	-1.81	3.78	27.73	38.45
				H	42.79	-1.81	3.78	**37.19**	38.45

Remark：

(1) The RBW,VBW of SPA for measurement RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	H	1850.20	512	V	22.63	5.15	4.60	23.18	33.01
				H	17.96	5.15	4.60	18.51	33.01
		1880.00	661	V	21.99	5.14	4.65	22.49	33.01
				H	16.56	5.14	4.65	17.05	33.01
		1909.80	810	V	22.66	5.13	4.69	23.10	33.01
				H	15.93	5.13	4.69	16.37	33.01
	E1	1850.20	512	V	21.99	5.15	4.60	22.54	33.01
				H	26.57	5.15	4.60	27.13	33.01
		1880.00	661	V	20.46	5.14	4.65	20.96	33.01
				H	25.37	5.14	4.65	25.87	33.01
		1909.80	810	V	20.91	5.13	4.69	21.36	33.01
				H	24.31	5.13	4.69	24.75	33.01
	E2	1850.20	512	V	16.32	5.15	4.60	16.87	33.01
				H	29.09	5.15	4.60	**29.64**	33.01
		1880.00	661	V	14.42	5.14	4.65	14.92	33.01
				H	27.79	5.14	4.65	28.29	33.01
		1909.80	810	V	16.59	5.13	4.69	17.03	33.01
				H	27.62	5.13	4.69	28.06	33.01

Remark：

(1) The RBW,VBW of SPA for measurement RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	H	824.20	128	V	33.78	-2.03	4.00	27.74	38.45
				H	37.00	-2.03	4.00	30.97	38.45
		836.60	190	V	34.59	-1.91	3.85	28.83	38.45
				H	32.16	-1.91	3.85	26.40	38.45
		848.80	251	V	34.89	-1.81	3.78	29.30	38.45
				H	31.67	-1.81	3.78	26.07	38.45
	E1	824.20	128	V	33.61	-2.03	4.00	27.57	38.45
				H	33.38	-2.03	4.00	27.34	38.45
		836.60	190	V	34.30	-1.91	3.85	28.54	38.45
				H	35.81	-1.91	3.85	30.06	38.45
		848.80	251	V	34.51	-1.81	3.78	28.91	38.45
				H	36.18	-1.81	3.78	30.59	38.45
	E2	824.20	128	V	28.15	-2.03	4.00	22.11	38.45
				H	37.51	-2.03	4.00	31.47	38.45
		836.60	190	V	28.98	-1.91	3.85	23.22	38.45
				H	39.33	-1.91	3.85	33.57	38.45
		848.80	251	V	29.89	-1.81	3.78	24.30	38.45
				H	39.26	-1.81	3.78	**33.66**	38.45

Remark：

(1) The RBW,VBW of SPA for measurement RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
EDGE 1900	H	1850.20	512	V	19.83	5.15	4.60	20.38	33.01
				H	14.07	5.15	4.60	14.62	33.01
		1880.00	661	V	21.38	5.14	4.65	21.88	33.01
				H	11.23	5.14	4.65	11.73	33.01
		1909.80	810	V	21.61	5.13	4.69	22.06	33.01
				H	10.16	5.13	4.69	10.6	33.01
	E1	1850.20	512	V	18.10	5.15	4.60	18.66	33.01
				H	23.62	5.15	4.60	24.17	33.01
		1880.00	661	V	17.40	5.14	4.65	17.89	33.01
				H	21.92	5.14	4.65	22.42	33.01
		1909.80	810	V	17.10	5.13	4.69	17.54	33.01
				H	21.03	5.13	4.69	21.48	33.01
	E2	1850.20	512	V	13.41	5.15	4.60	13.96	33.01
				H	26.05	5.15	4.60	**26.60**	33.01
		1880.00	661	V	12.93	5.14	4.65	13.42	33.01
				H	23.72	5.14	4.65	24.21	33.01
		1909.80	810	V	13.23	5.13	4.69	13.67	33.01
				H	23.37	5.13	4.69	23.82	33.01

Remark：

(1) The RBW,VBW of SPA for measurement RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
WCDMA Band II	H	1852.4	9262	V	19.22	5.15	4.60	19.77	33.01
				H	14.13	5.15	4.60	14.68	33.01
		1880.0	9400	V	19.26	5.14	4.64	19.75	33.01
				H	12.43	5.14	4.64	12.92	33.01
		1907.6	9538	V	19.6	5.13	4.69	20.04	33.01
				H	11.7	5.13	4.69	12.15	33.01
	E1	1852.4	9262	V	17.69	5.15	4.60	18.25	33.01
				H	23.50	5.15	4.60	24.05	33.01
		1880.0	9400	V	16.42	5.14	4.64	16.92	33.01
				H	23.22	5.14	4.64	23.72	33.01
		1907.6	9538	V	16.51	5.13	4.69	16.95	33.01
				H	21.07	5.13	4.69	21.51	33.01
	E2	1852.4	9262	V	12.35	5.15	4.60	12.90	33.01
				H	24.85	5.15	4.60	**25.40**	33.01
		1880.0	9400	V	12.97	5.14	4.64	13.47	33.01
				H	23.99	5.14	4.64	24.49	33.01
		1907.6	9538	V	12.17	5.13	4.69	12.62	33.01
				H	23.10	5.13	4.69	23.55	33.01

Remark：

(1) The RBW,VBW of SPA for measurement RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
WCDMA Band IV	H	1712.4	1312	V	20.73	5.24	4.37	21.61	30.00
				H	12.67	5.24	4.37	13.54	30.00
		1732.6	1413	V	20.16	5.22	4.40	20.97	30.00
				H	12.77	5.22	4.40	13.59	30.00
		1752.6	1513	V	19.49	5.19	4.44	20.24	30.00
				H	13.06	5.19	4.44	13.81	30.00
	E1	1712.4	1312	V	14.37	5.24	4.37	15.24	30.00
				H	25.29	5.24	4.37	26.16	30.00
		1732.6	1413	V	13.72	5.22	4.40	14.54	30.00
				H	24.66	5.22	4.40	25.47	30.00
		1752.6	1513	V	14.41	5.19	4.44	15.16	30.00
				H	24.50	5.19	4.44	25.25	30.00
	E2	1712.4	1312	V	12.46	5.24	4.37	13.34	30.00
				H	25.32	5.24	4.37	**26.19**	30.00
		1732.6	1413	V	12.70	5.22	4.40	13.51	30.00
				H	23.96	5.22	4.40	24.77	30.00
		1752.6	1513	V	13.95	5.19	4.44	14.71	30.00
				H	24.23	5.19	4.44	24.98	30.00

Remark：

(1) The RBW,VBW of SPA for measurement RBW= 1MHz , VBW= 3MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
WCDMA Band V	H	826.40	4132	V	31.48	-1.98	3.91	25.57	38.45
				H	35.88	-1.98	3.91	29.98	38.45
		836.60	4183	V	31.61	-1.91	3.83	25.86	38.45
				H	36.21	-1.91	3.83	30.46	38.45
		846.60	4233	V	30.52	-1.82	3.73	24.96	38.45
				H	34.55	-1.82	3.73	28.99	38.45
	E1	826.40	4132	V	32.93	-1.98	3.91	27.04	38.45
				H	33.27	-1.98	3.91	27.39	38.45
		836.60	4183	V	32.12	-1.91	3.83	26.37	38.45
				H	34.77	-1.91	3.83	29.03	38.45
		846.60	4233	V	31.40	-1.82	3.73	25.84	38.45
				H	34.42	-1.82	3.73	28.86	38.45
	E2	826.40	4132	V	25.09	-1.98	3.91	19.21	38.45
				H	35.79	-1.98	3.91	29.91	38.45
		836.60	4183	V	25.45	-1.91	3.83	19.71	38.45
				H	36.36	-1.91	3.83	**30.62**	38.45
		846.60	4233	V	25.08	-1.82	3.73	19.52	38.45
				H	35.84	-1.82	3.73	30.26	38.45

Remark：

(1) The RBW,VBW of SPA for measurement RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSUPA Band II	H	1852.4	9262	V	18.58	5.15	4.60	19.13	33.01
				H	13.16	5.15	4.60	13.71	33.01
		1880.0	9400	V	18.45	5.14	4.64	18.94	33.01
				H	11.6	5.14	4.64	12.10	33.01
		1907.6	9538	V	18.96	5.13	4.69	19.41	33.01
				H	11.63	5.13	4.69	12.08	33.01
	E1	1852.4	9262	V	18.03	5.15	4.60	18.58	33.01
				H	21.69	5.15	4.60	22.24	33.01
		1880.0	9400	V	16.56	5.14	4.64	17.06	33.01
				H	20.81	5.14	4.64	21.31	33.01
		1907.6	9538	V	16.46	5.13	4.69	16.91	33.01
				H	19.25	5.13	4.69	19.69	33.01
	E2	1852.4	9262	V	12.71	5.15	4.60	13.26	33.01
				H	24.35	5.15	4.60	**24.90**	33.01
		1880.0	9400	V	12.69	5.14	4.64	13.19	33.01
				H	22.43	5.14	4.64	22.93	33.01
		1907.6	9538	V	11.75	5.13	4.69	12.20	33.01
				H	21.91	5.13	4.69	22.36	33.01

Remark：

(1) The RBW,VBW of SPA for measurement RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band IV	H	1712.4	1312	V	21.04	5.24	4.37	21.91	30.00
				H	11.94	5.24	4.37	12.81	30.00
		1732.6	1413	V	19.73	5.22	4.40	20.54	30.00
				H	12.74	5.22	4.40	13.55	30.00
		1752.6	1513	V	19.03	5.19	4.44	19.78	30.00
				H	12.48	5.19	4.44	13.23	30.00
	E1	1712.4	1312	V	14.02	5.24	4.37	14.90	30.00
				H	23.82	5.24	4.37	24.69	30.00
		1732.6	1413	V	12.51	5.22	4.40	13.32	30.00
				H	24.13	5.22	4.40	24.94	30.00
		1752.6	1513	V	13.49	5.19	4.44	14.24	30.00
				H	24.06	5.19	4.44	24.82	30.00
	E2	1712.4	1312	V	13.09	5.24	4.37	13.96	30.00
				H	14.03	5.24	4.37	14.84	30.00
		1732.6	1413	V	15.12	5.22	4.40	15.88	30.00
				H	25.59	5.22	4.40	**26.46**	30.00
		1752.6	1513	V	24.16	5.19	4.44	24.97	30.00
				H	24.31	5.19	4.44	25.07	30.00

Remark：

(1) The RBW,VBW of SPA for measurement RBW= 1MHz , VBW= 3MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
HSUPA Band V	H	826.40	4132	V	30.15	-1.98	3.91	24.27	38.45
				H	34.21	-1.98	3.91	28.31	38.45
		836.60	4183	V	29.91	-1.91	3.83	24.17	38.45
				H	34.67	-1.91	3.83	28.92	38.45
		846.60	4233	V	29.15	-1.82	3.73	23.60	38.45
				H	33.38	-1.82	3.73	27.82	38.45
	E1	826.40	4132	V	30.15	-1.98	3.91	24.27	38.45
				H	32.87	-1.98	3.91	26.99	38.45
		836.60	4183	V	31.21	-1.91	3.83	25.46	38.45
				H	34.38	-1.91	3.83	28.64	38.45
		846.60	4233	V	30.77	-1.82	3.73	25.21	38.45
				H	33.99	-1.82	3.73	28.43	38.45
	E2	826.40	4132	V	24.56	-1.98	3.91	18.66	38.45
				H	35.41	-1.98	3.91	29.51	38.45
		836.60	4183	V	24.10	-1.91	3.83	18.35	38.45
				H	35.92	-1.91	3.83	**30.17**	38.45
		846.60	4233	V	24.84	-1.82	3.73	19.28	38.45
				H	35.35	-1.82	3.73	29.79	38.45

Remark：

(1) The RBW,VBW of SPA for measurement RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSDPA Band II	H	1852.4	9262	V	19.05	5.15	4.60	19.60	33.01
				H	13.91	5.15	4.60	14.46	33.01
		1880.0	9400	V	18.16	5.14	4.64	18.66	33.01
				H	12.56	5.14	4.64	13.06	33.01
		1907.6	9538	V	18.16	5.13	4.69	18.61	33.01
				H	11.12	5.13	4.69	11.56	33.01
	E1	1852.4	9262	V	17.81	5.15	4.60	18.36	33.01
				H	22.07	5.15	4.60	22.62	33.01
		1880.0	9400	V	16.92	5.14	4.64	17.41	33.01
				H	20.81	5.14	4.64	21.31	33.01
		1907.6	9538	V	14.90	5.13	4.69	15.34	33.01
				H	19.64	5.13	4.69	20.09	33.01
	E2	1852.4	9262	V	11.99	5.15	4.60	12.54	33.01
				H	23.77	5.15	4.60	**24.32**	33.01
		1880.0	9400	V	11.25	5.14	4.64	11.75	33.01
				H	21.96	5.14	4.64	22.46	33.01
		1907.6	9538	V	11.73	5.13	4.69	12.18	33.01
				H	21.20	5.13	4.69	21.64	33.01

Remark：

(1) The RBW,VBW of SPA for measurement RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSDPA Band IV	H	1712.4	1312	V	20.73	5.24	4.37	21.61	30.00
				H	13.09	5.24	4.37	13.97	30.00
		1732.6	1413	V	19.34	5.22	4.40	20.16	30.00
				H	11.16	5.22	4.40	11.98	30.00
		1752.6	1513	V	19.08	5.19	4.44	19.84	30.00
				H	12.14	5.19	4.44	12.89	30.00
	E1	1712.4	1312	V	12.47	5.24	4.37	13.35	30.00
				H	24.88	5.24	4.37	25.75	30.00
		1732.6	1413	V	12.61	5.22	4.40	13.43	30.00
				H	24.35	5.22	4.40	25.16	30.00
		1752.6	1513	V	12.88	5.19	4.44	13.63	30.00
				H	24.34	5.19	4.44	25.10	30.00
	E2	1712.4	1312	V	11.85	5.24	4.37	12.72	30.00
				H	25.38	5.24	4.37	**26.25**	30.00
		1732.6	1413	V	12.01	5.22	4.40	12.82	30.00
				H	19.75	5.22	4.40	20.56	30.00
		1752.6	1513	V	11.25	5.19	4.44	12.00	30.00
				H	23.93	5.19	4.44	24.68	30.00

Remark：

(1) The RBW,VBW of SPA for measurement RBW= 1MHz , VBW= 3MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
HSDPA Band V	H	826.40	4132	V	29.44	-1.98	3.91	23.56	38.45
				H	34.71	-1.98	3.91	28.91	38.45
		836.60	4183	V	29.81	-1.91	3.83	24.07	38.45
				H	35.25	-1.91	3.83	29.50	38.45
		846.60	4233	V	29.40	-1.82	3.73	23.83	38.45
				H	33.95	-1.82	3.73	28.37	38.45
	E1	826.40	4132	V	30.17	-1.98	3.91	24.29	38.45
				H	32.79	-1.98	3.91	26.88	38.45
		836.60	4183	V	30.99	-1.91	3.83	25.25	38.45
				H	34.28	-1.91	3.83	28.54	38.45
		846.60	4233	V	30.72	-1.82	3.73	25.16	38.45
				H	33.96	-1.82	3.73	28.4	38.45
	E2	826.40	4132	V	24.57	-1.98	3.91	18.63	38.45
				H	35.4	-1.98	3.91	29.53	38.45
		836.60	4183	V	25.06	-1.91	3.83	19.31	38.45
				H	36.02	-1.91	3.83	**30.27**	38.45
		846.60	4233	V	24.80	-1.82	3.73	19.24	38.45
				H	35.38	-1.82	3.73	29.82	38.45

Remark：

(1) The RBW,VBW of SPA for measurement RBW= 5MHz , VBW= 8MHz

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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049 (99%)

8.2. Test Set-up:

Refer to section 6.2 in this report

8.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

8.5. Measurement Result:

Refer to next pages.

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.244
	836.60	190	0.241
	848.80	251	0.244

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 1900	1850.20	512	0.243
	1880.00	661	0.243
	1909.80	810	0.246

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.239
	836.60	190	0.241
	848.80	251	0.243

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.244
	1880.00	661	0.242
	1909.80	810	0.244

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.252
	836.60	190	0.249
	848.80	251	0.252

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.250
	1880.00	661	0.250
	1909.80	810	0.254

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.0611
	1880.00	9400	4.0644
	1907.60	9538	4.0609

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.0601
	1732.60	1413	4.0574
	1752.60	1513	4.0675

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.0700
	836.00	4183	4.0624
	846.60	4233	4.0504

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.40	9262	4.0660
	1880.00	9400	4.0498
	1907.60	9538	4.0646

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA IV	1712.40	1312	4.0524
	1732.60	1413	4.0434
	1752.60	1513	4.0579

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.0626
	836.60	4183	4.0441
	846.60	4233	4.0572

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.40	9262	4.0676
	1880.00	9400	4.0670
	1907.60	9538	4.0460

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA IV	1712.40	1312	4.0531
	1732.60	1413	4.0610
	1752.60	1513	4.0578

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.0554
	836.60	4183	4.0750
	846.60	4233	4.0568

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t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com

Figure 8-1: GSM 850 Channel Low

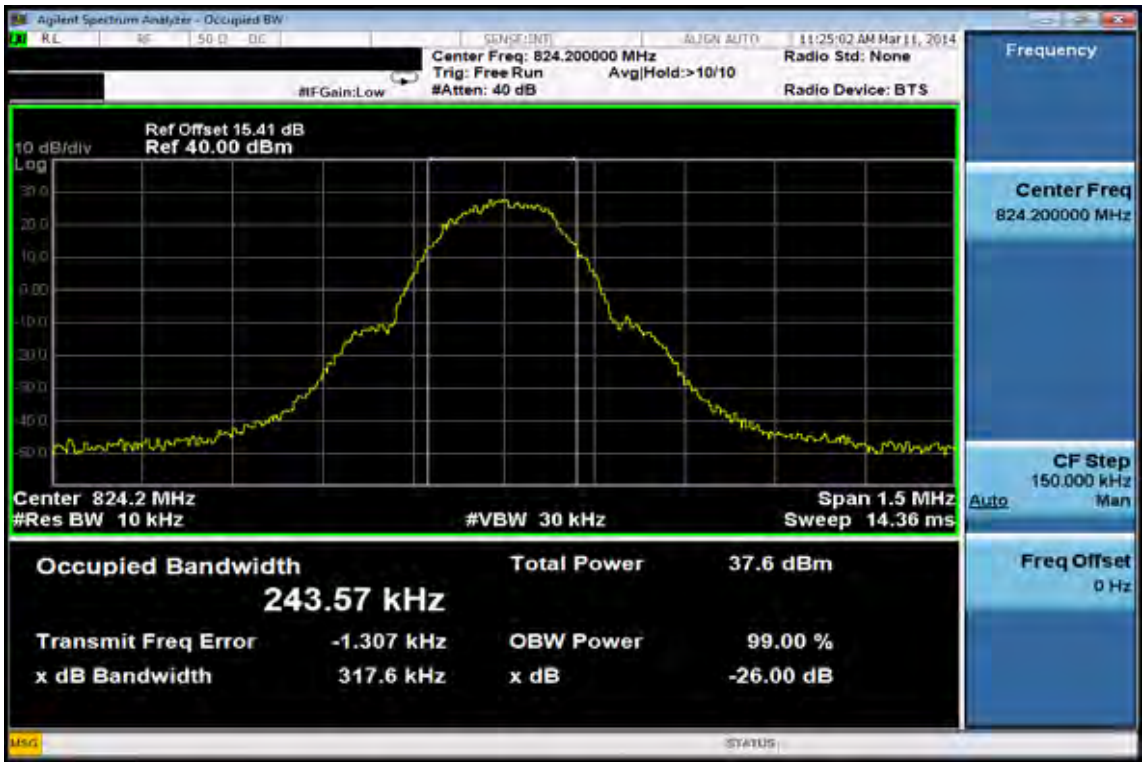

Figure 8-2: GSM 850 Channel Mid

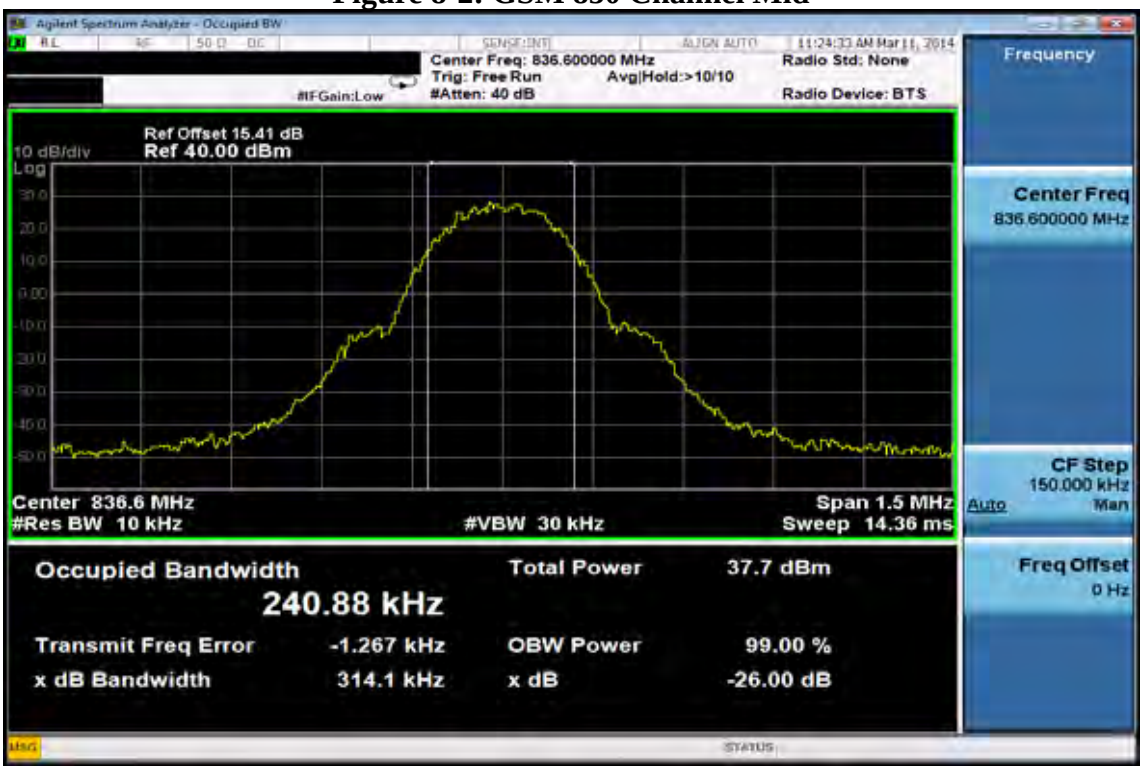

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Figure 8-3: GSM 850 Channel High

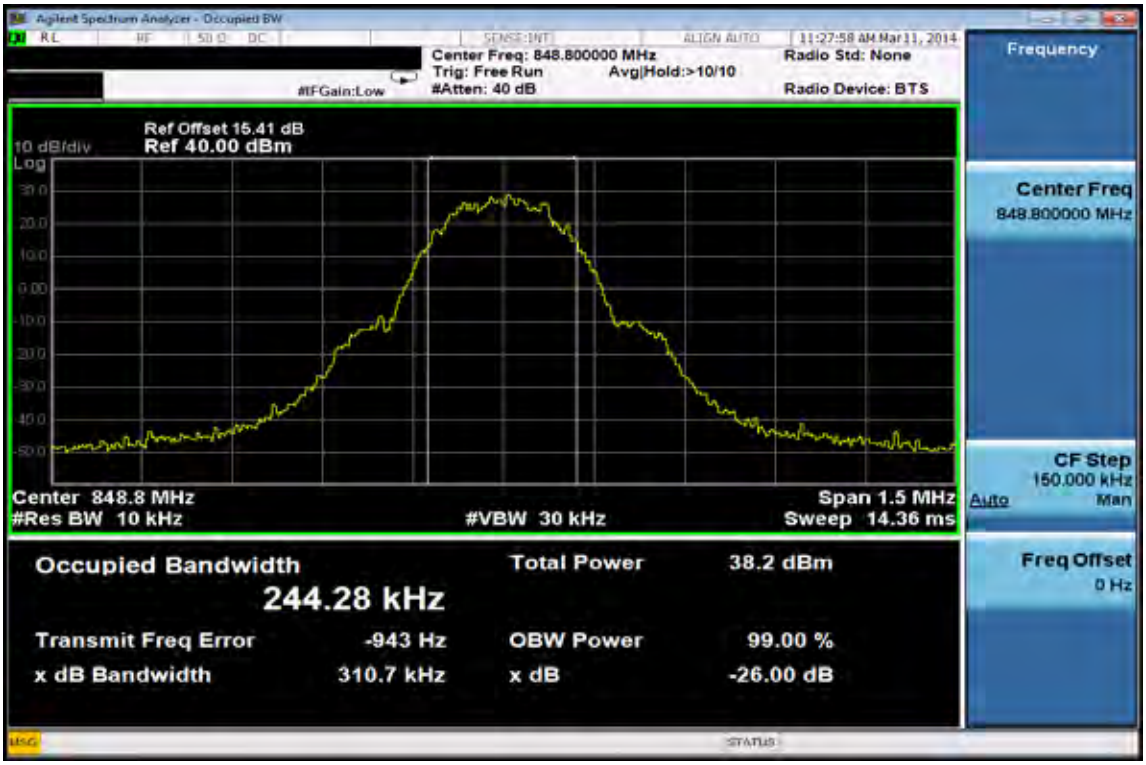

Figure 8-4: GSM 1900 Channel Low

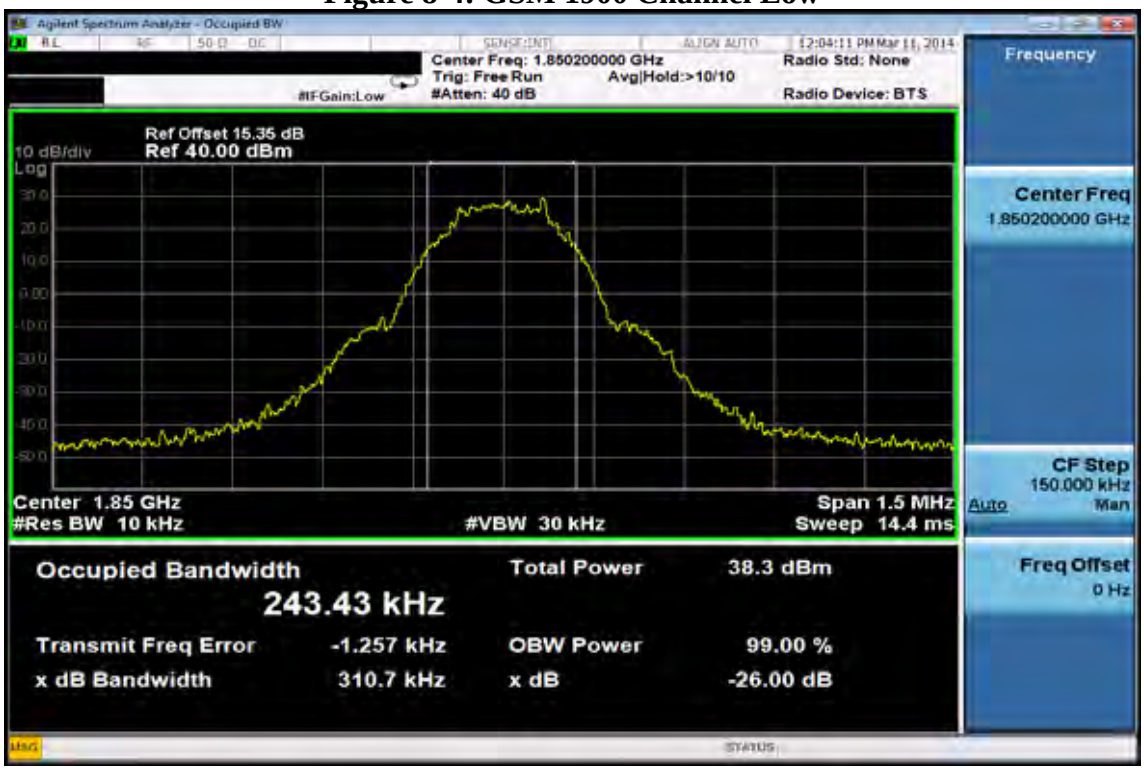

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Figure 8-5: GSM 1900 Channel Mid

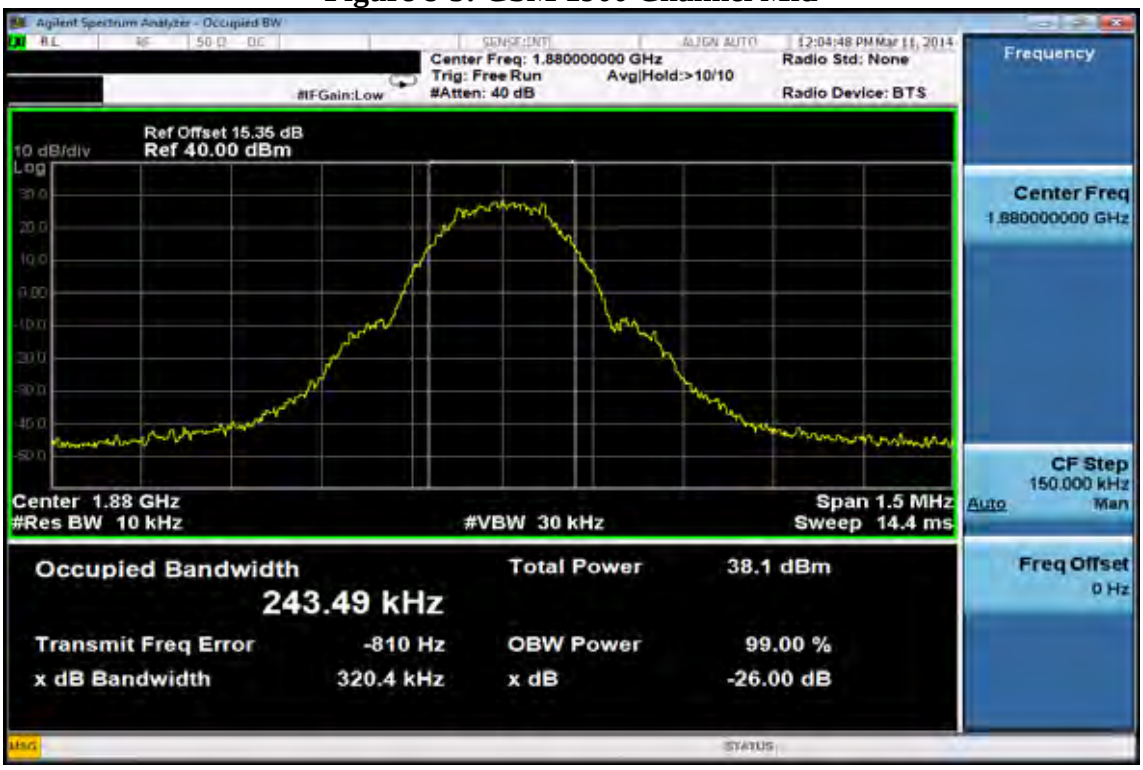

Figure 8-6: GSM 1900 Channel High

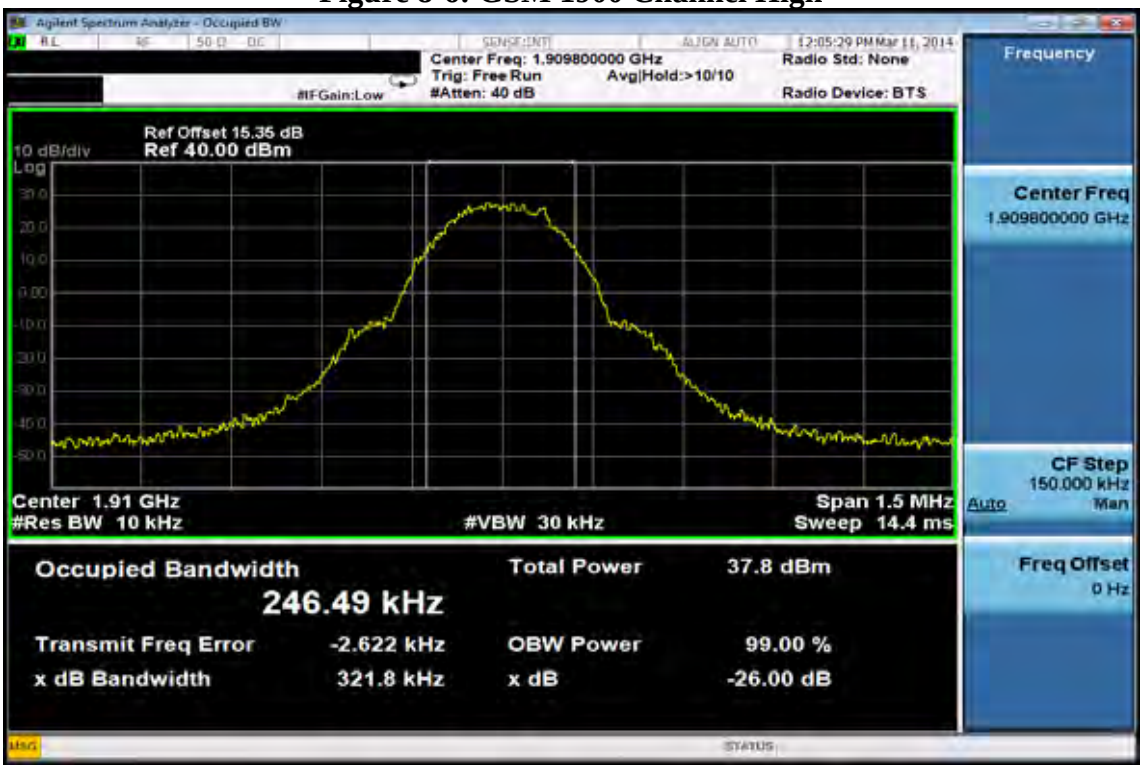

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Figure 8-7: GPRS 850 Channel Low

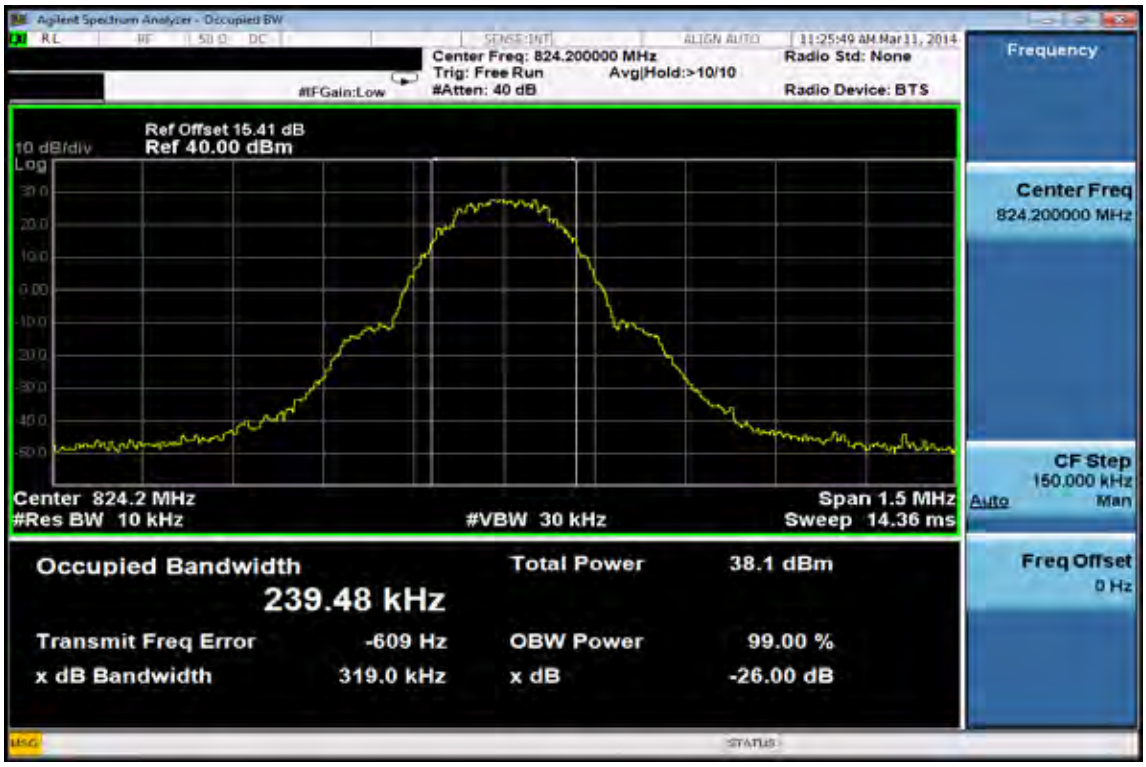
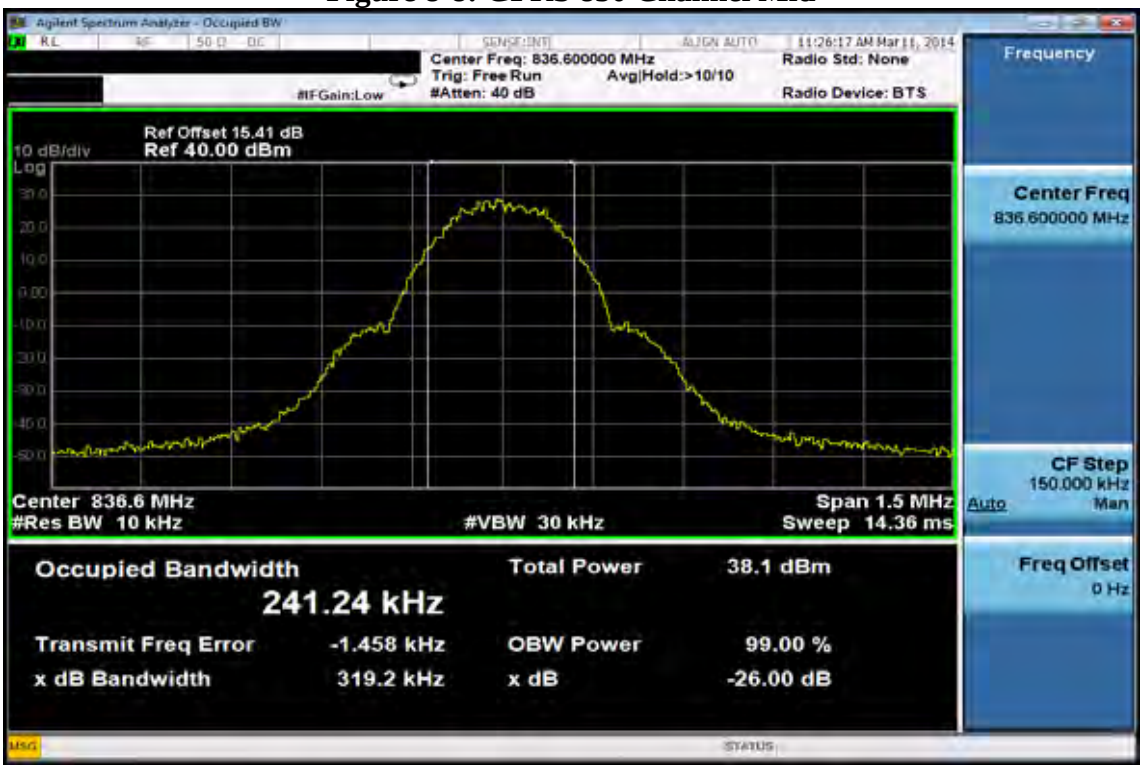


Figure 8-8: GPRS 850 Channel Mid



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GPRS Figure 8-9: GPRS 850 Channel High

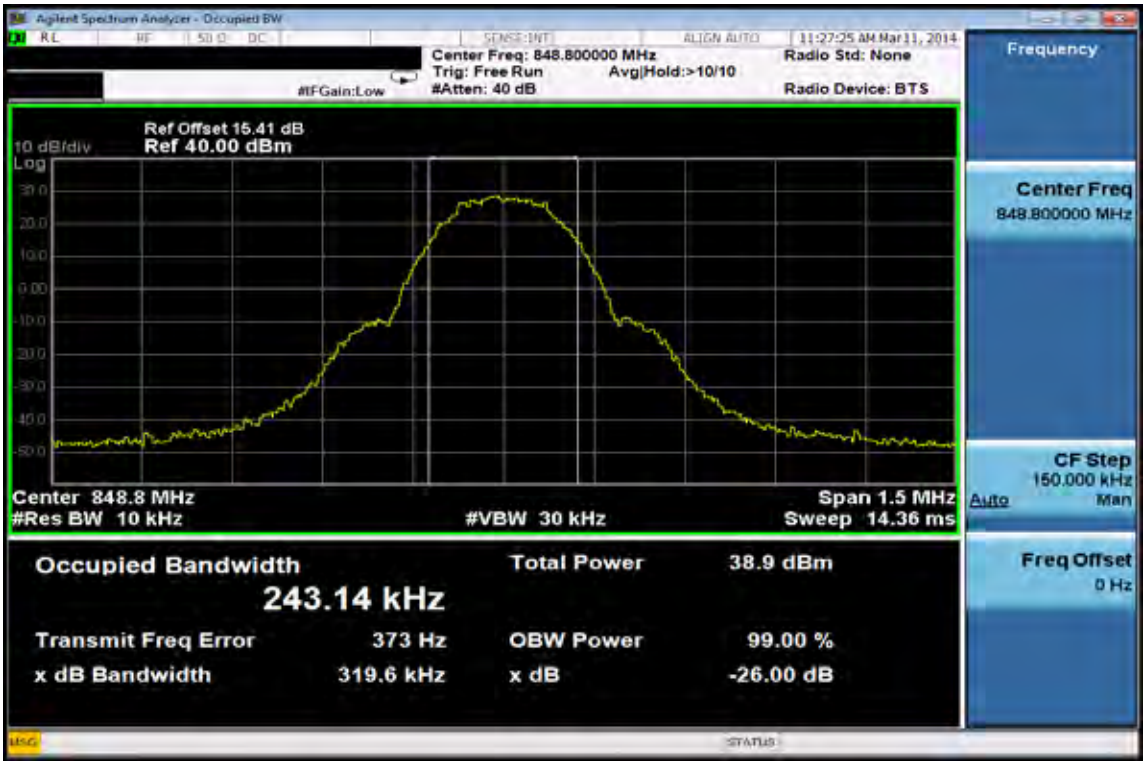

Figure 8-10: GPRS 1900 Channel Low

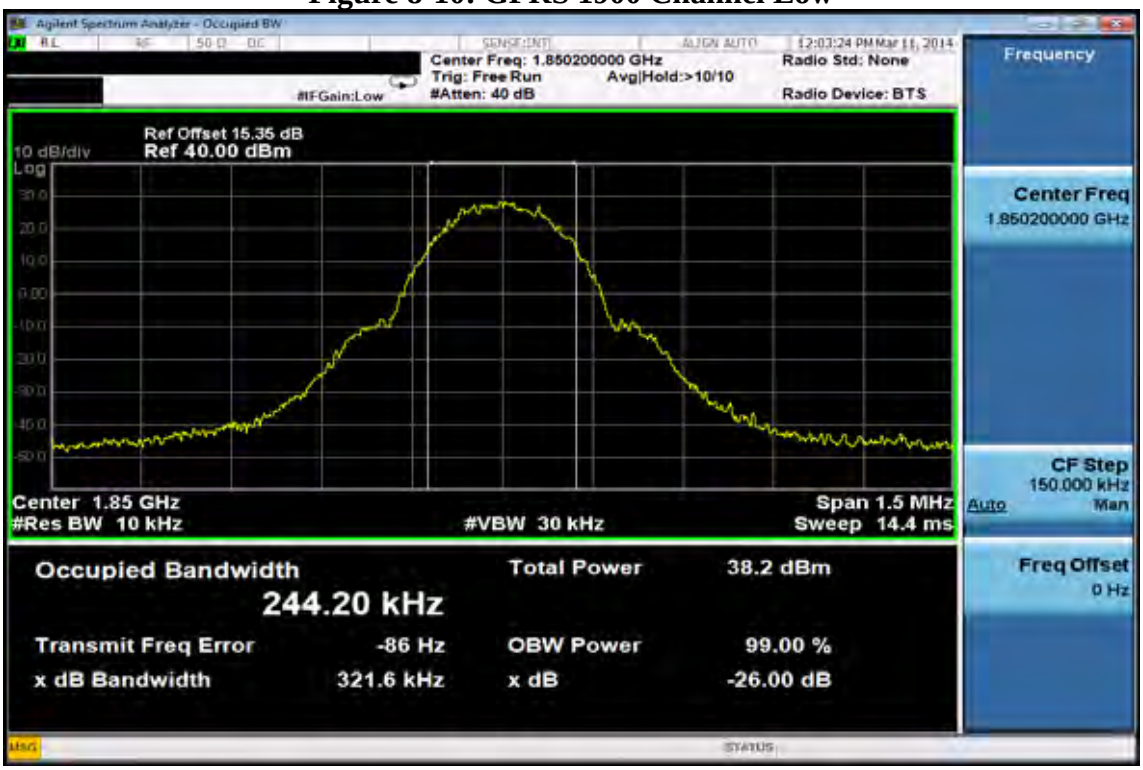

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Figure 8-11: GPRS 1900 Channel Mid

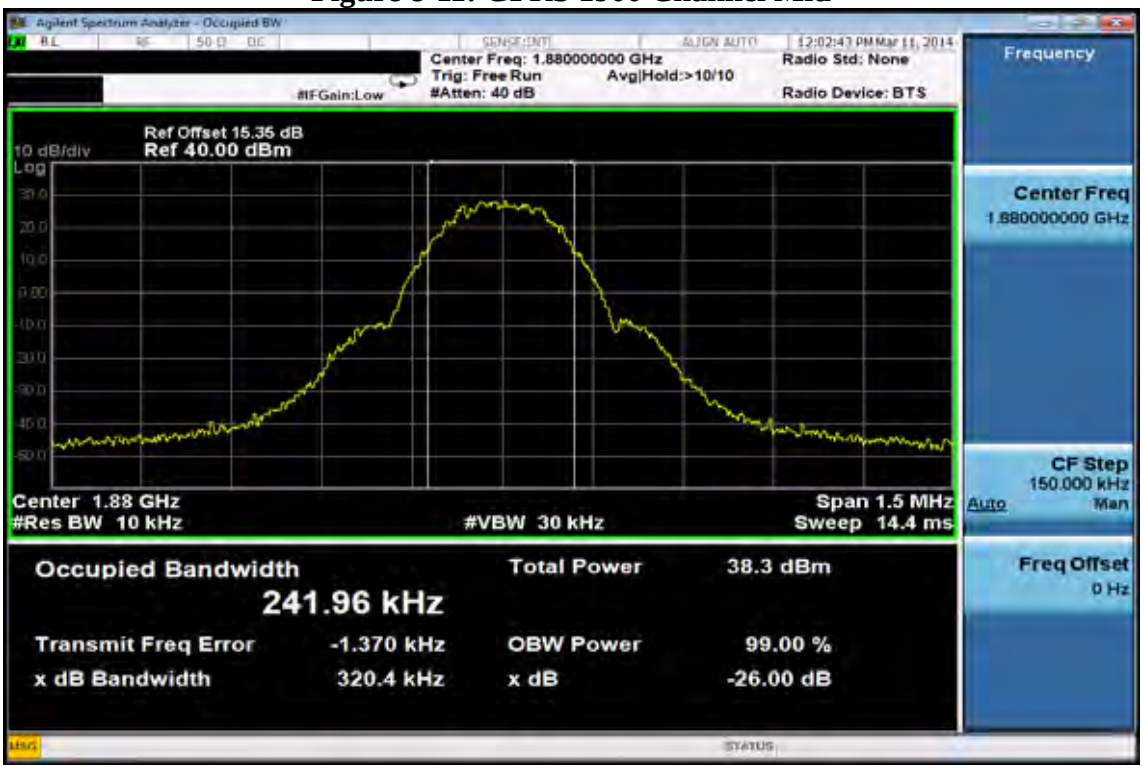

Figure 8-12: GPRS 1900 Channel High

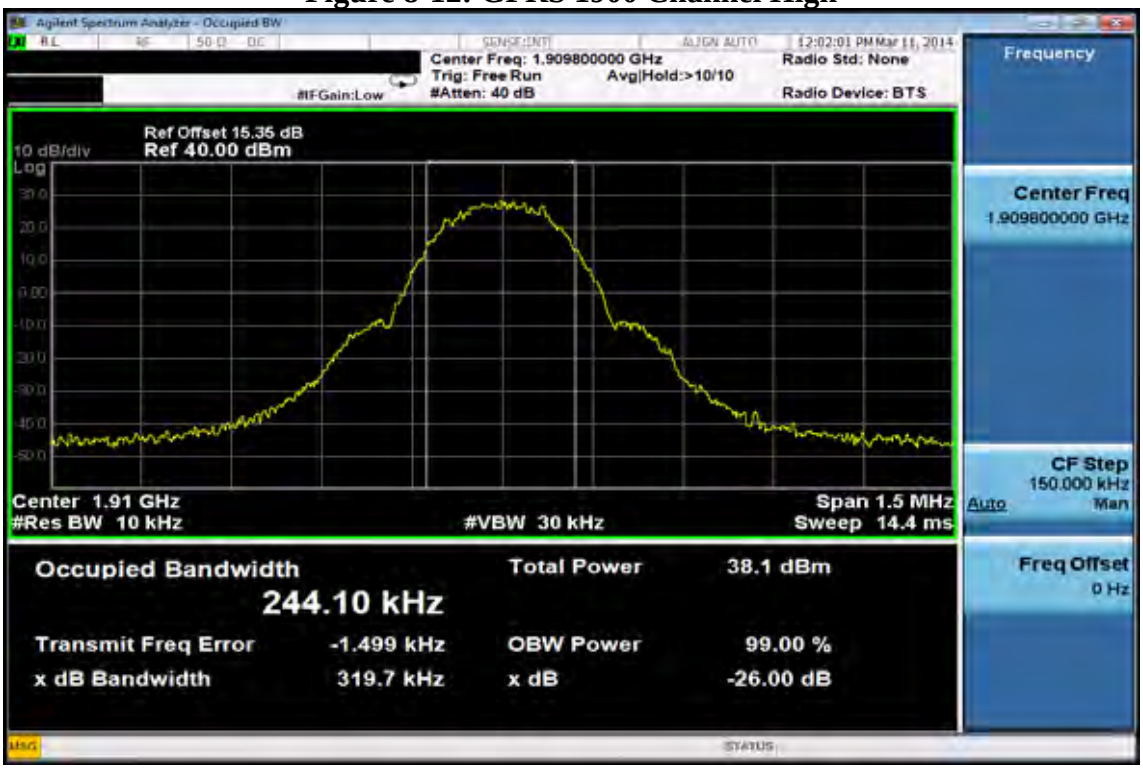

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Figure 8-13: EDGE 850 Channel Low

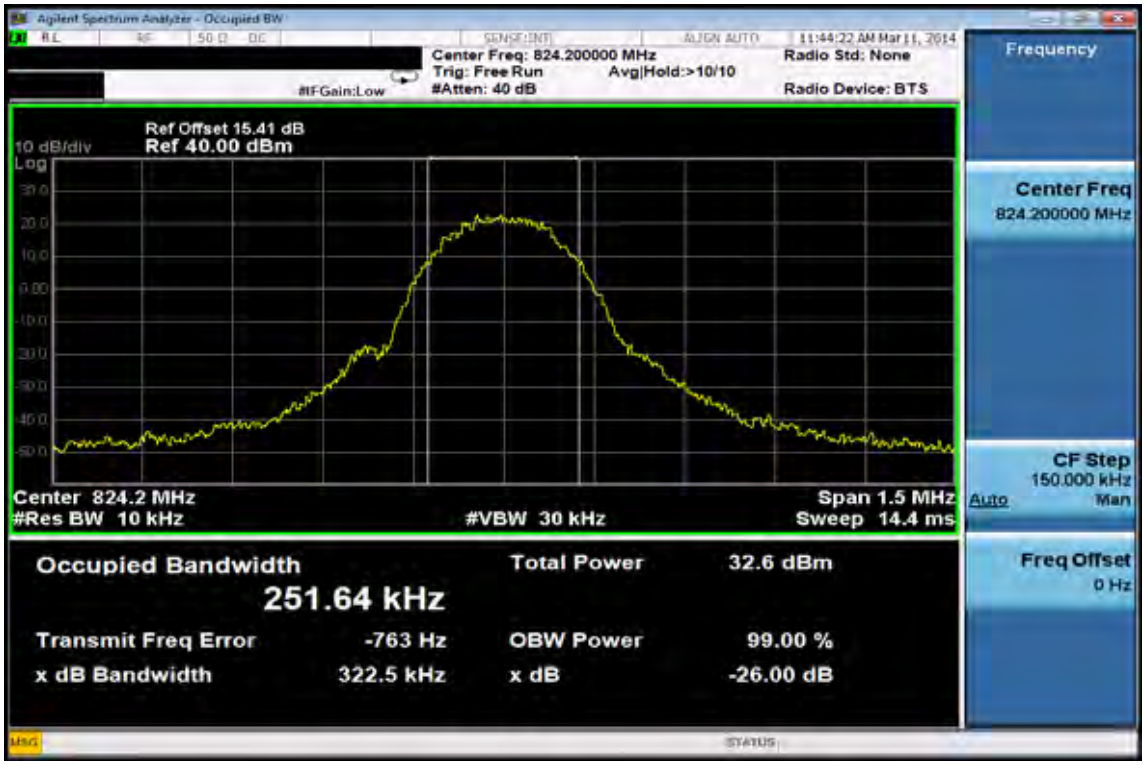
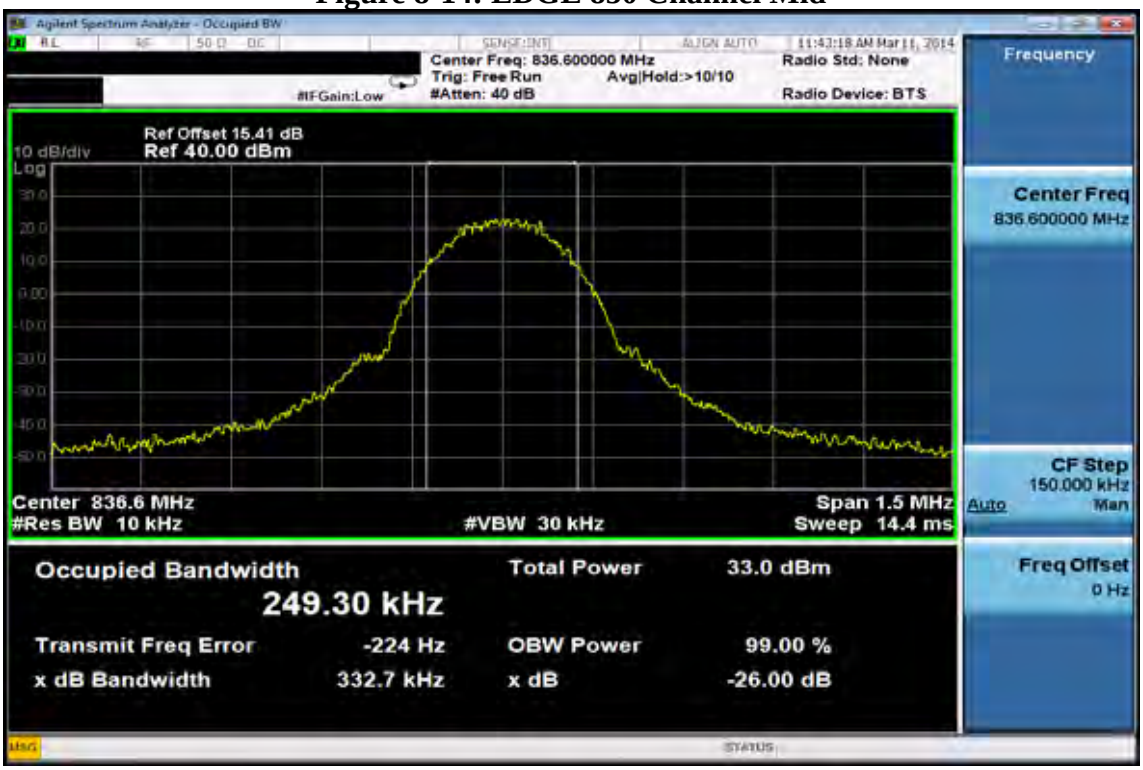


Figure 8-14: EDGE 850 Channel Mid



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GPRS Figure 8-15: EDGE 850 Channel High

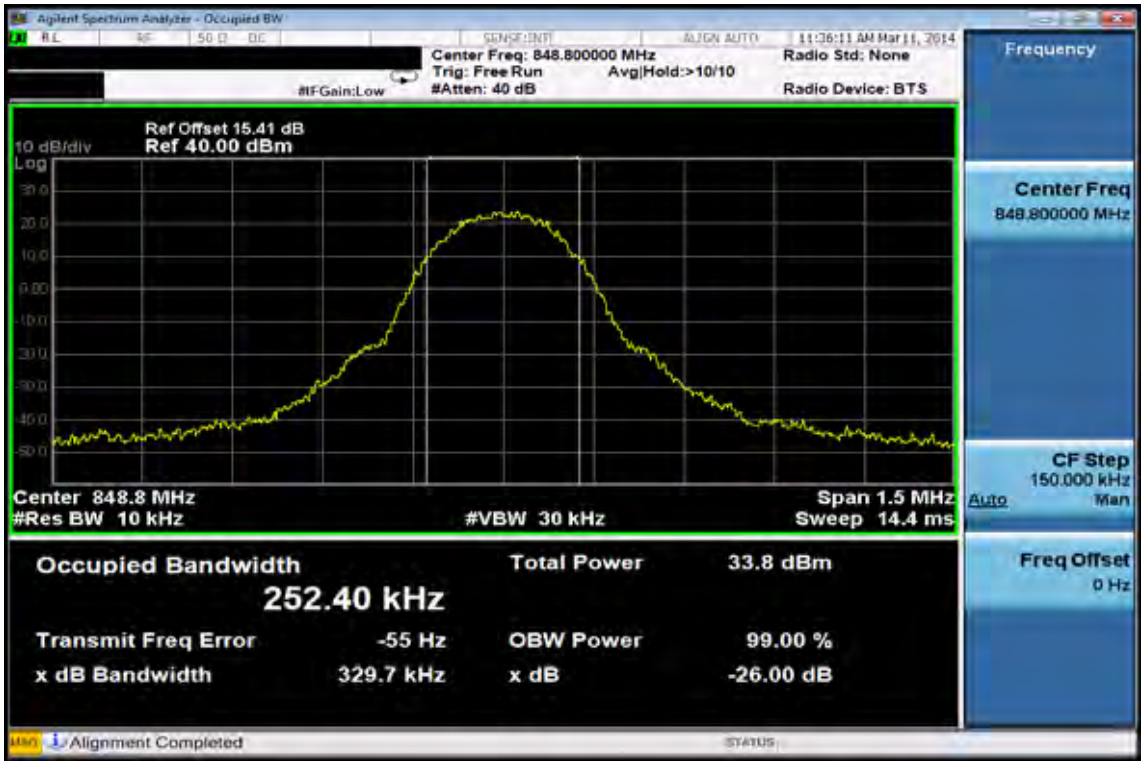

Figure 8-16: EDGE 1900 Channel Low

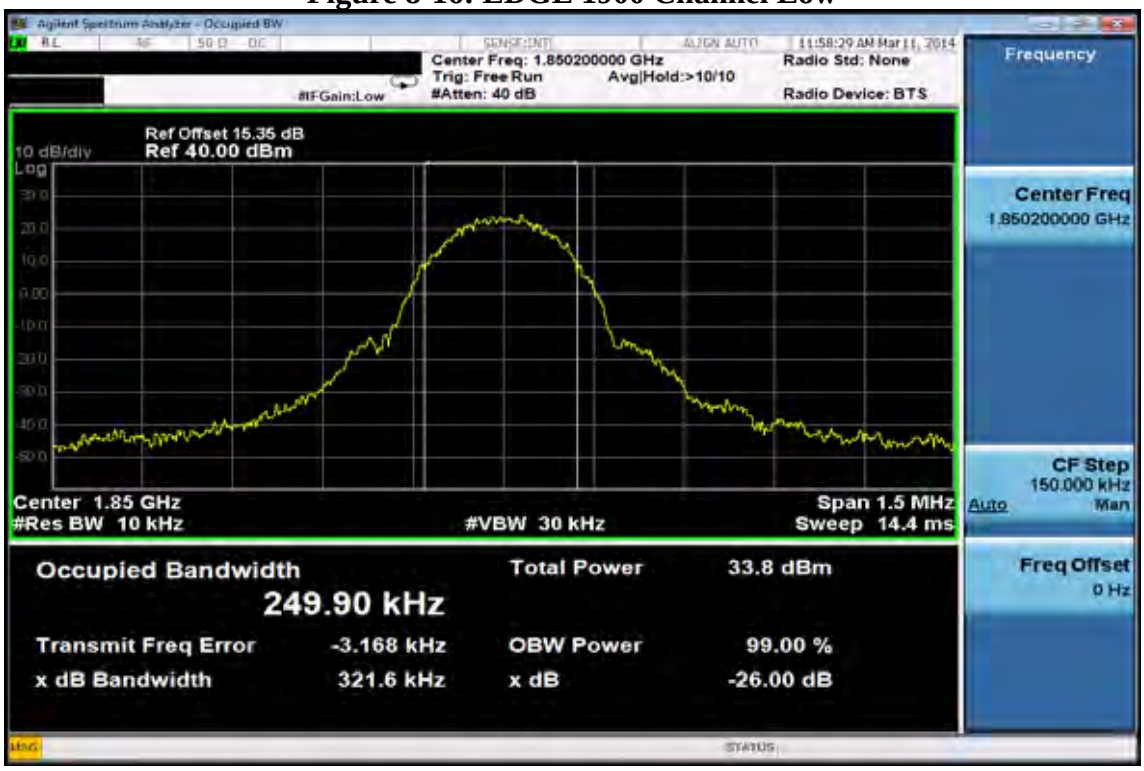

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Figure 8-17: EDGE 1900 Channel Mid

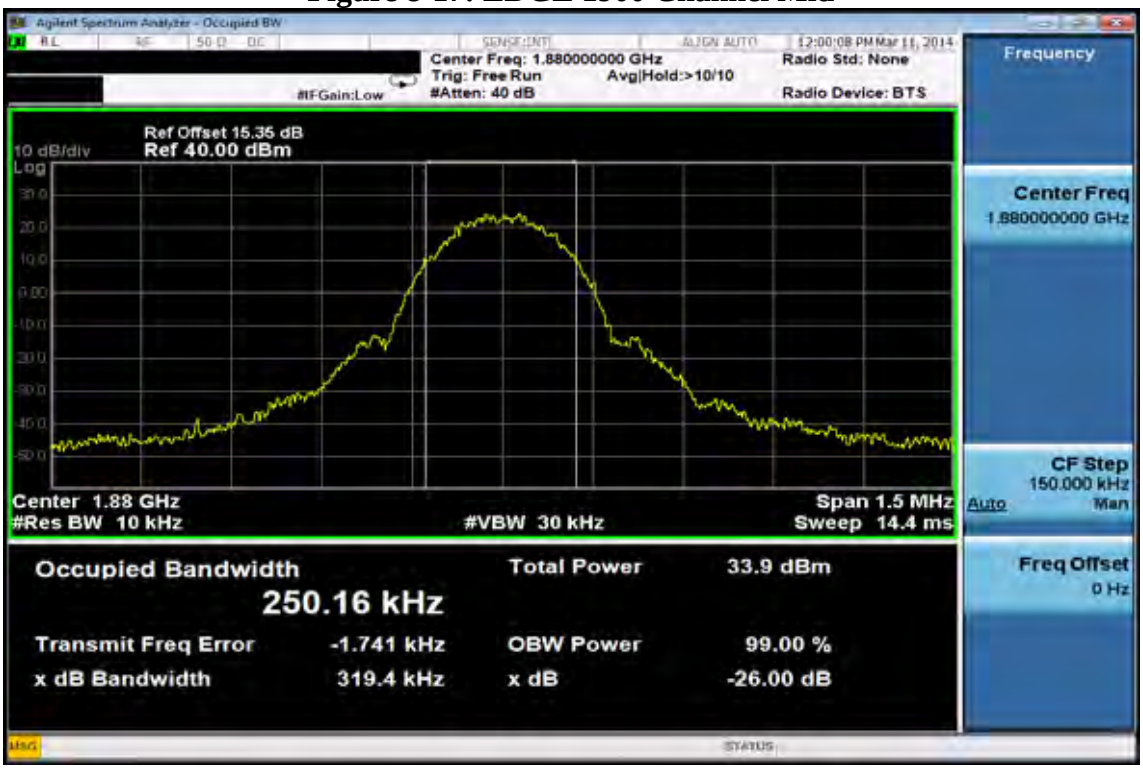

Figure 8-18: EDGE 1900 Channel High

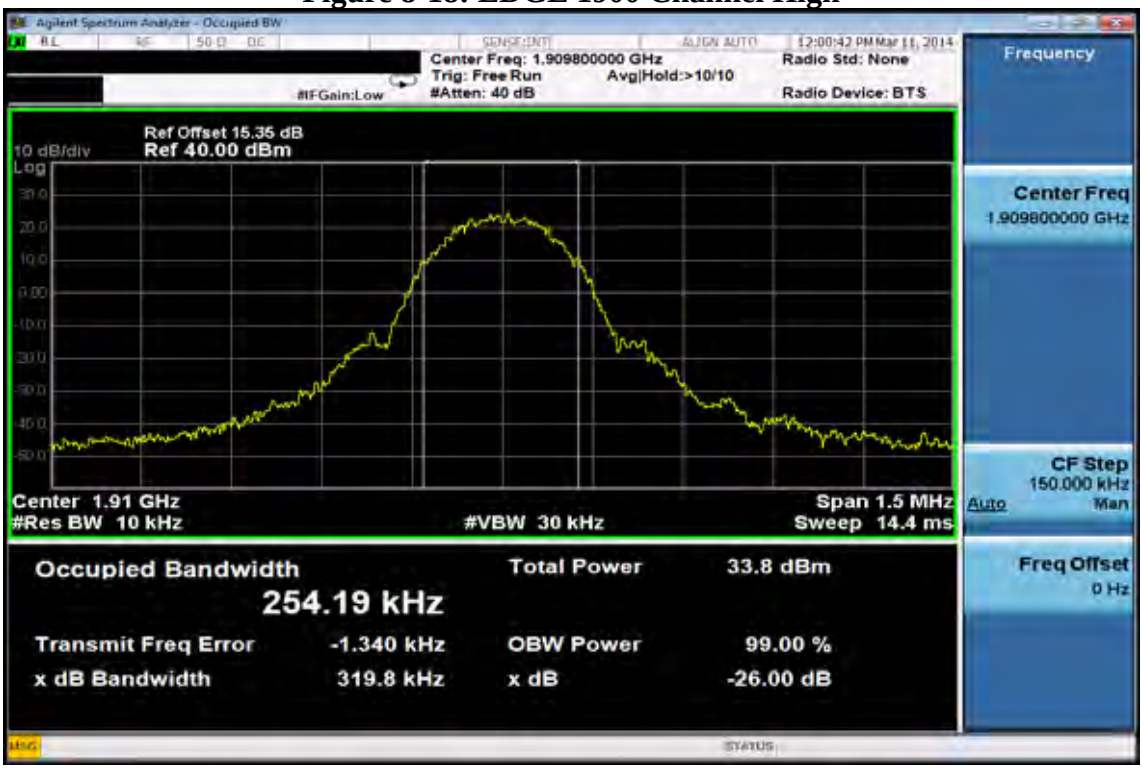

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Figure 8-19: WCDMA II Channel Low

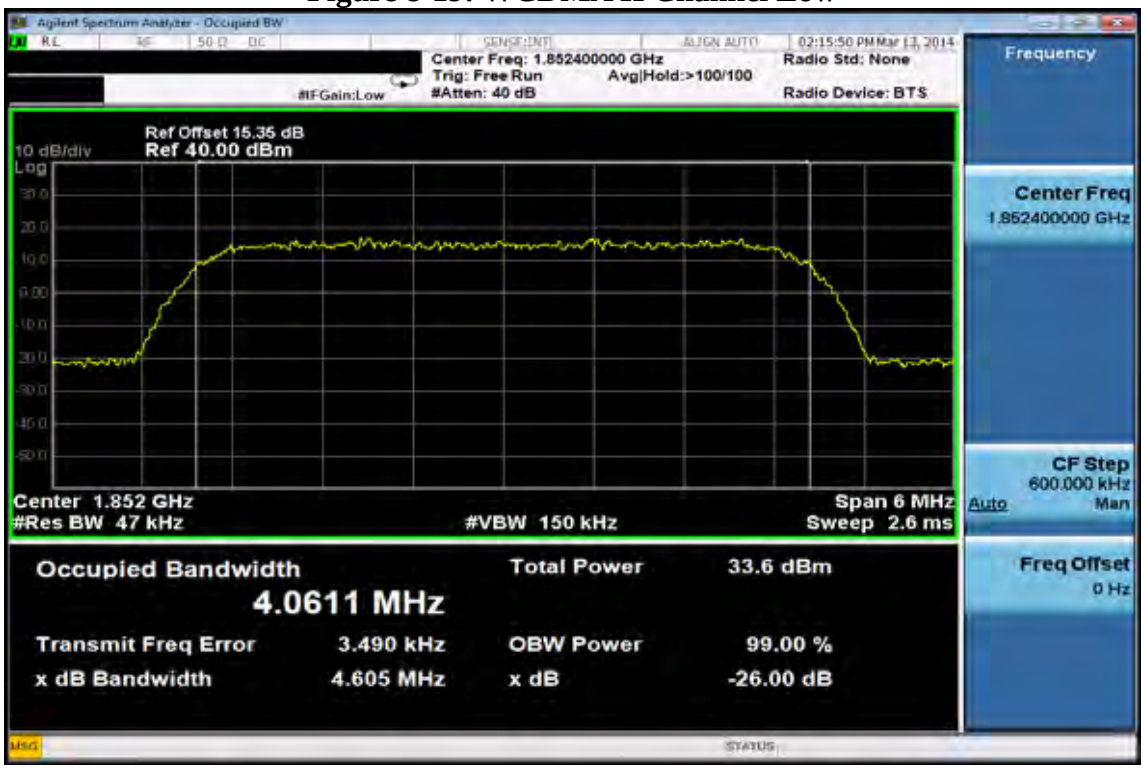

Figure 8-20: WCDMA II Channel Mid

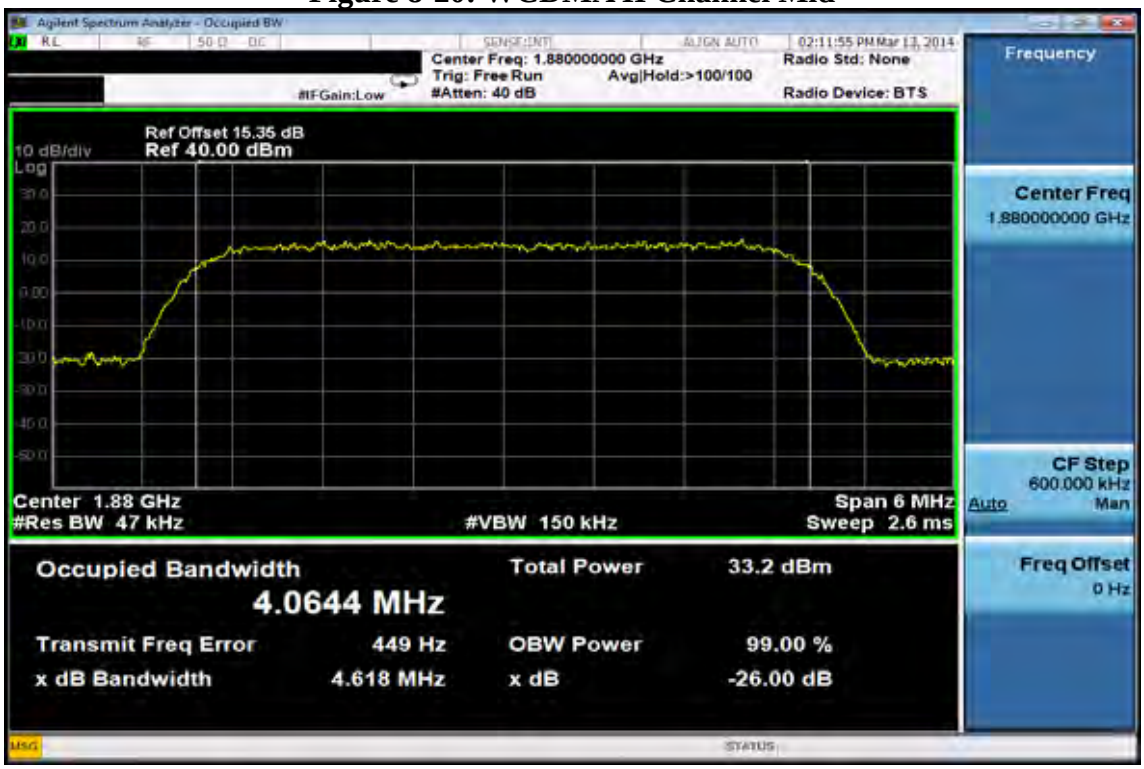

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Figure 8-21: WCDMA II Channel High

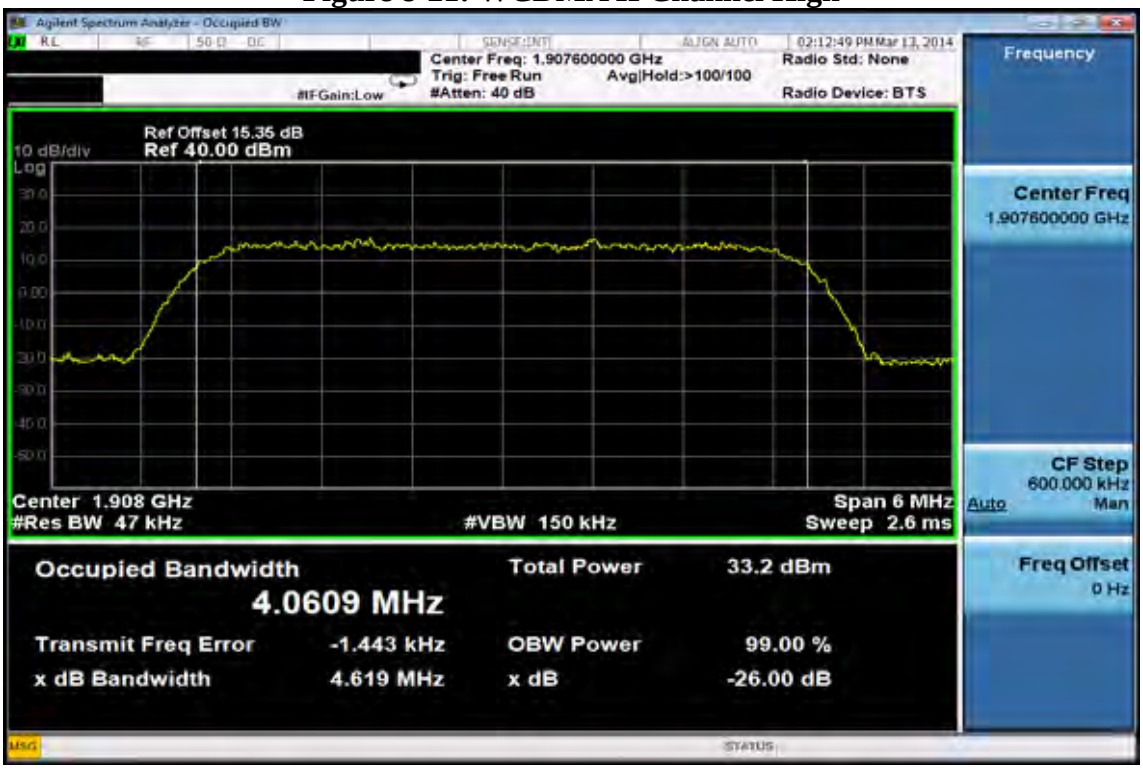

Figure 8-22: WCDMA IV Channel Low

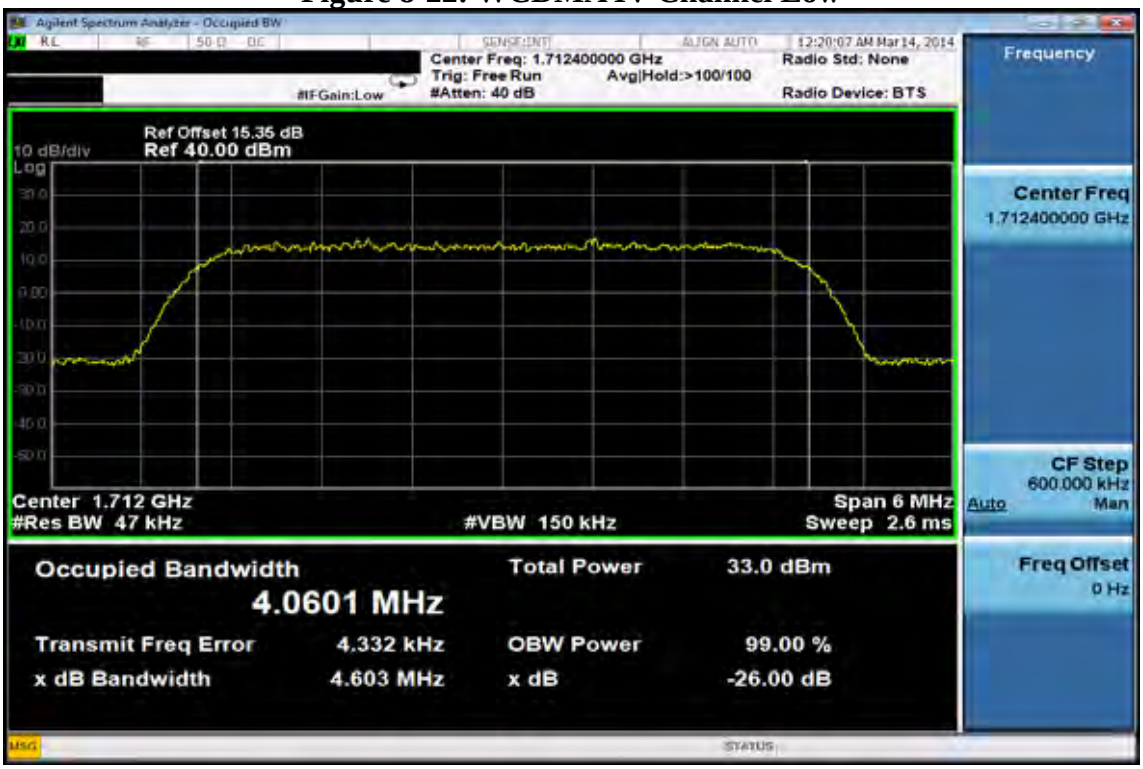

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Figure 8-23: WCDMA IV Channel Mid

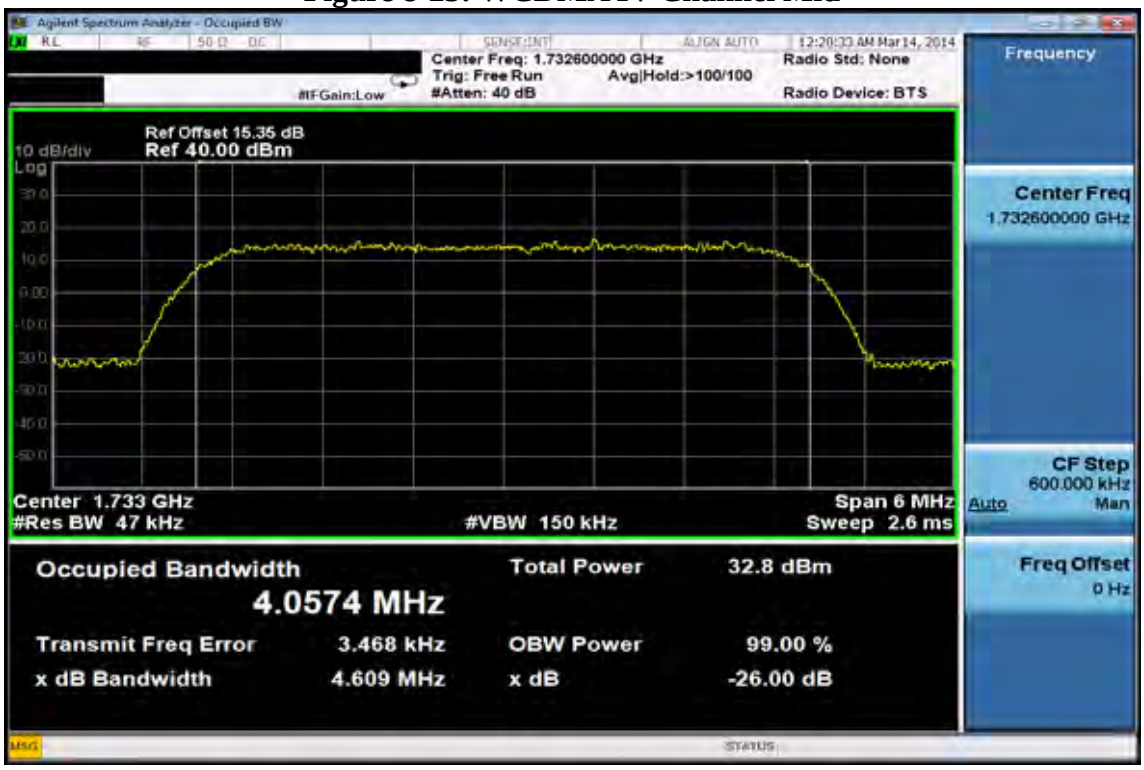

Figure 8-24: WCDMA IV Channel High

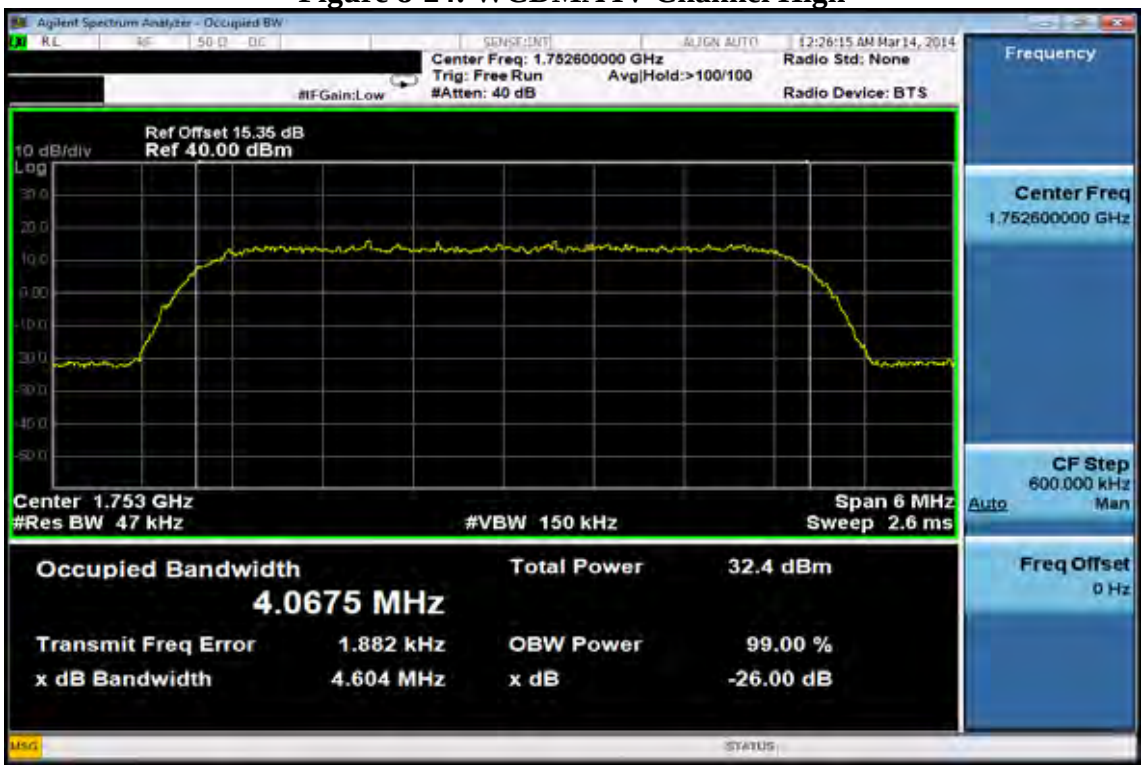

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Figure 8-25: WCDMA V Channel Low

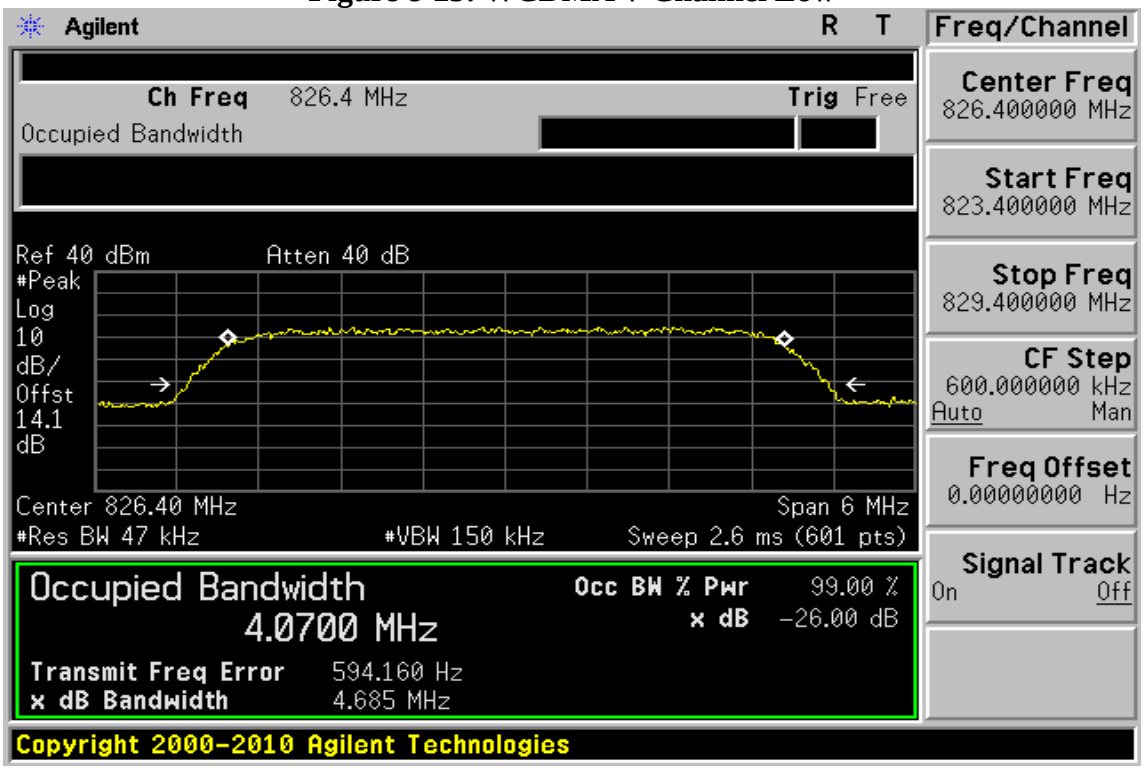

Figure 8-26: WCDMA V Channel Mid

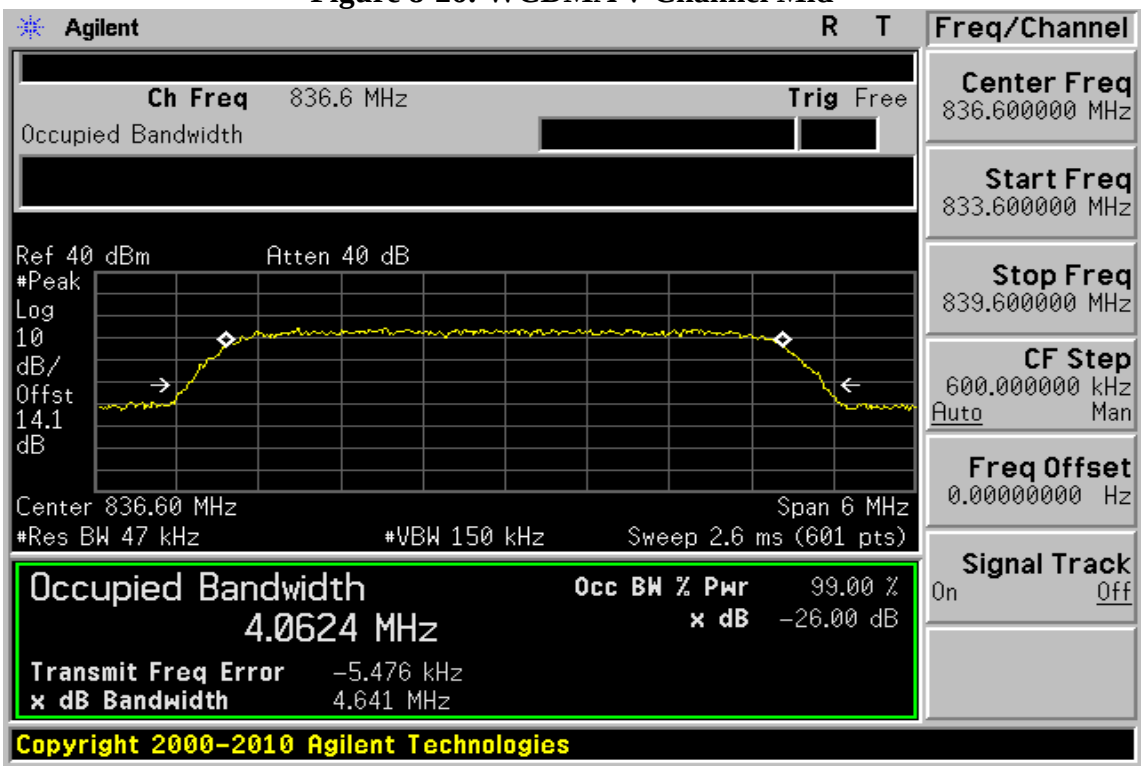

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Figure 8-27: WCDMA V Channel High

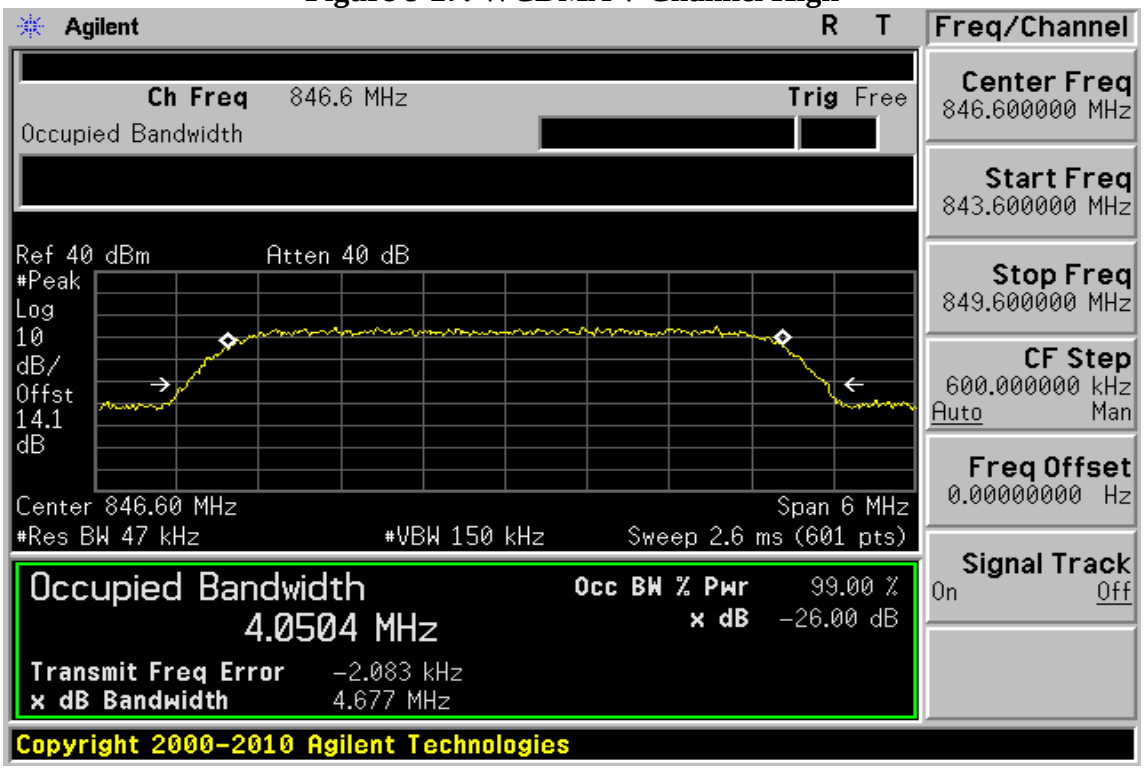

Figure 8-28: HSDPA II Channel Low

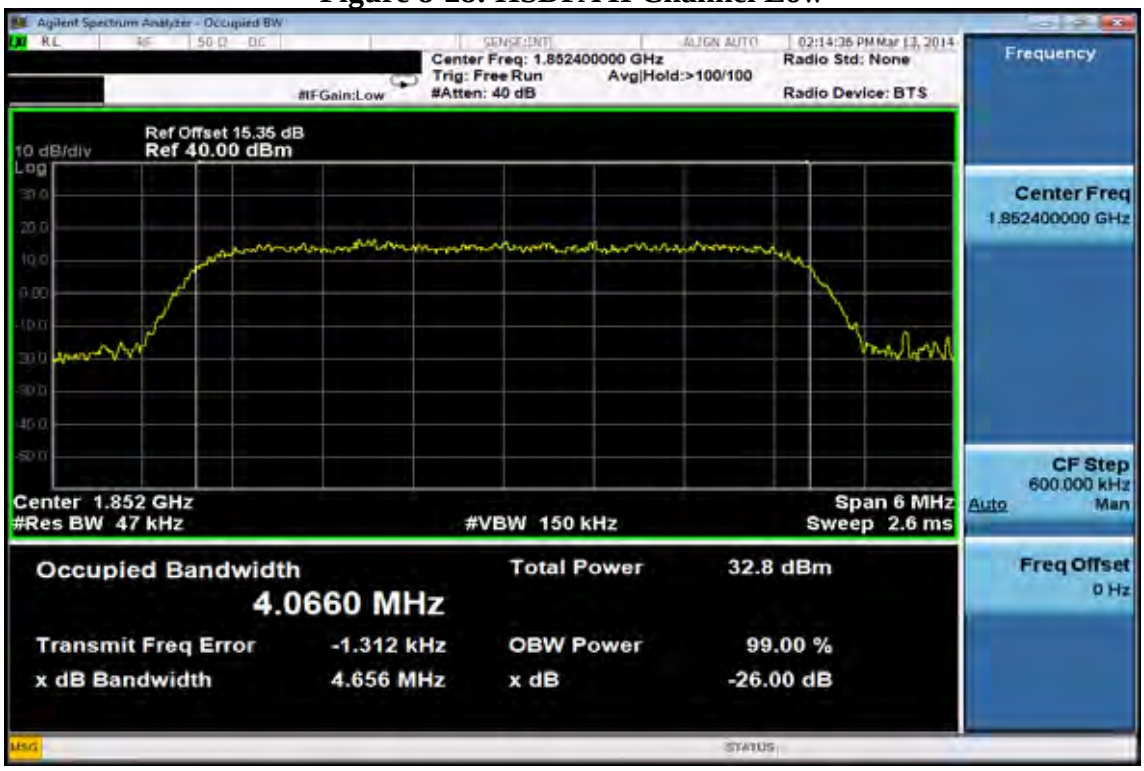

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Figure 8-29: HSDPA II Channel Mid

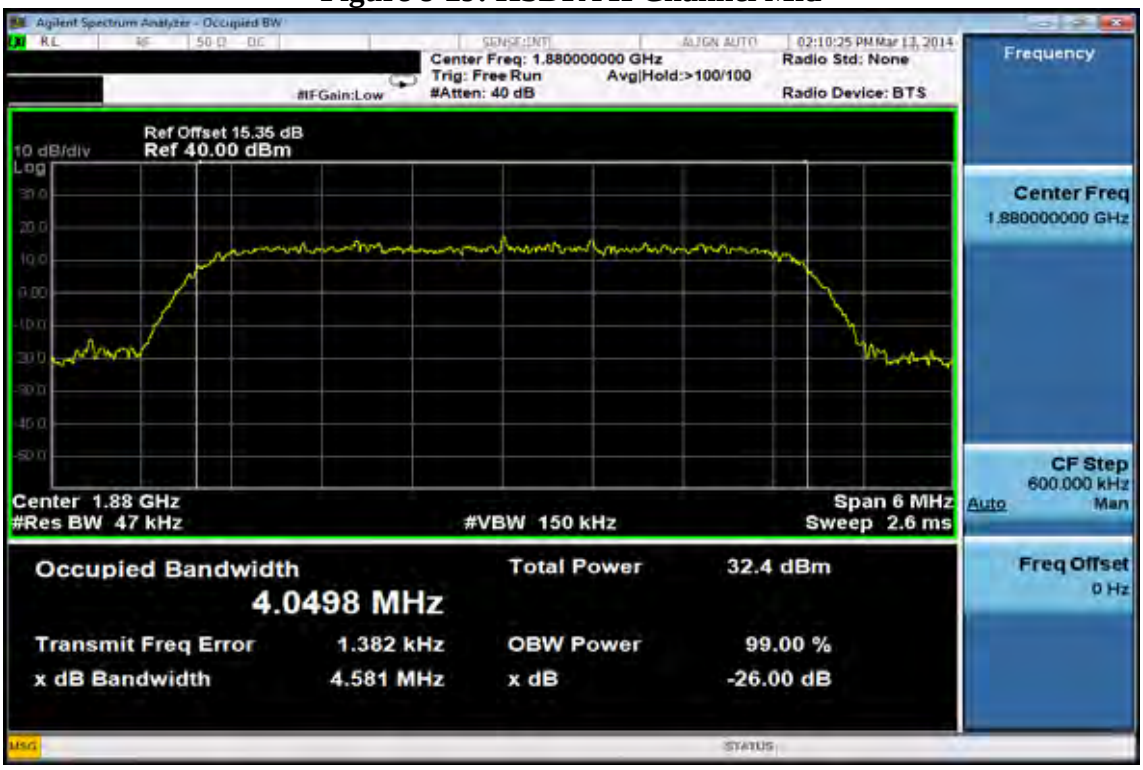

Figure 8-30: HSDPA II Channel High

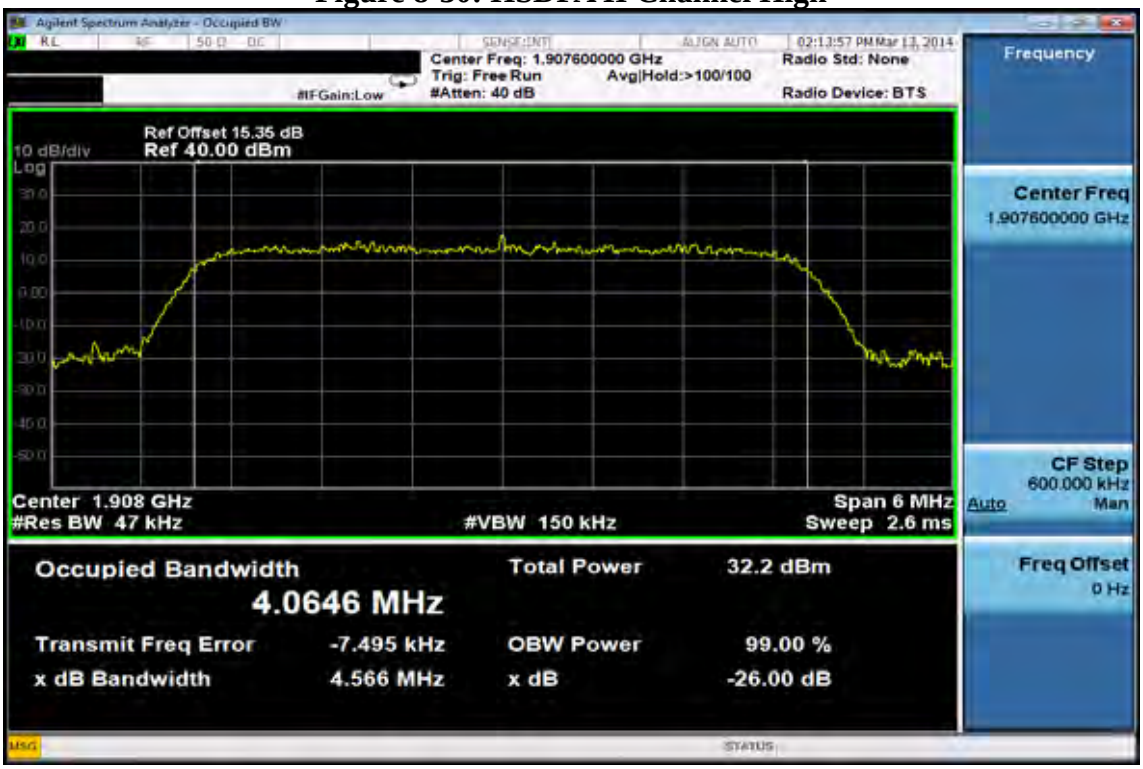

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Figure 8-31: HSDPA IV Channel Low

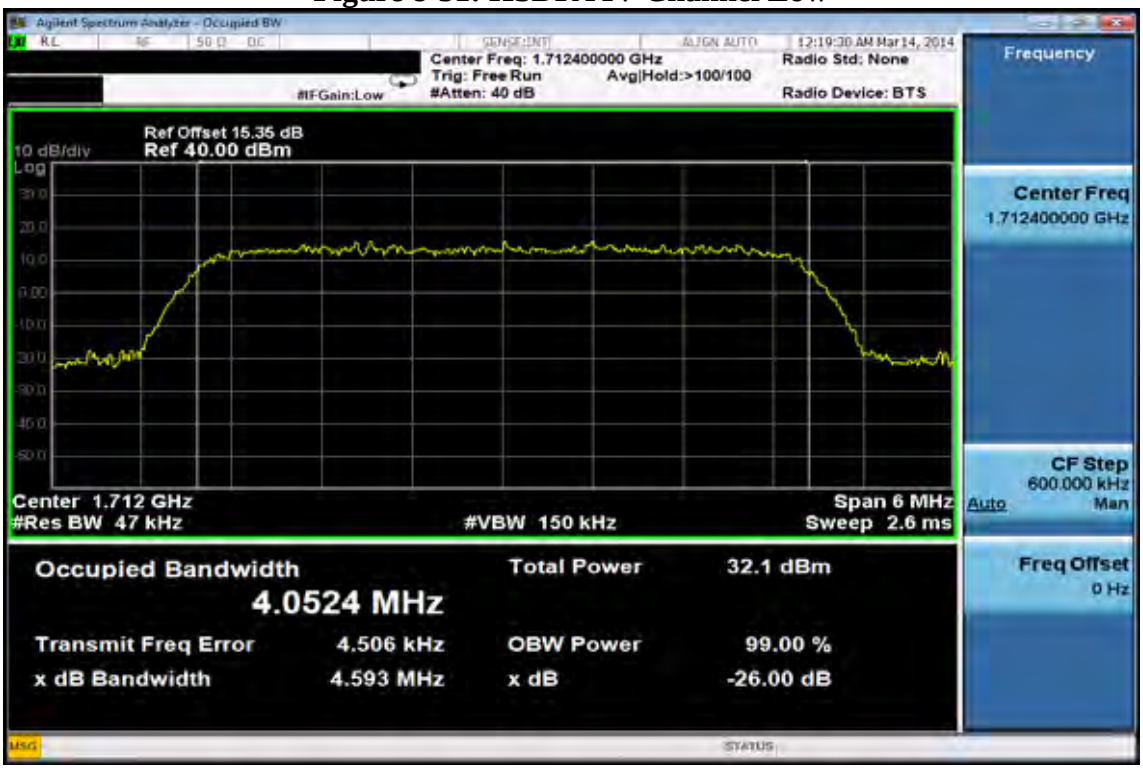

Figure 8-32: HSDPA IV Channel Mid

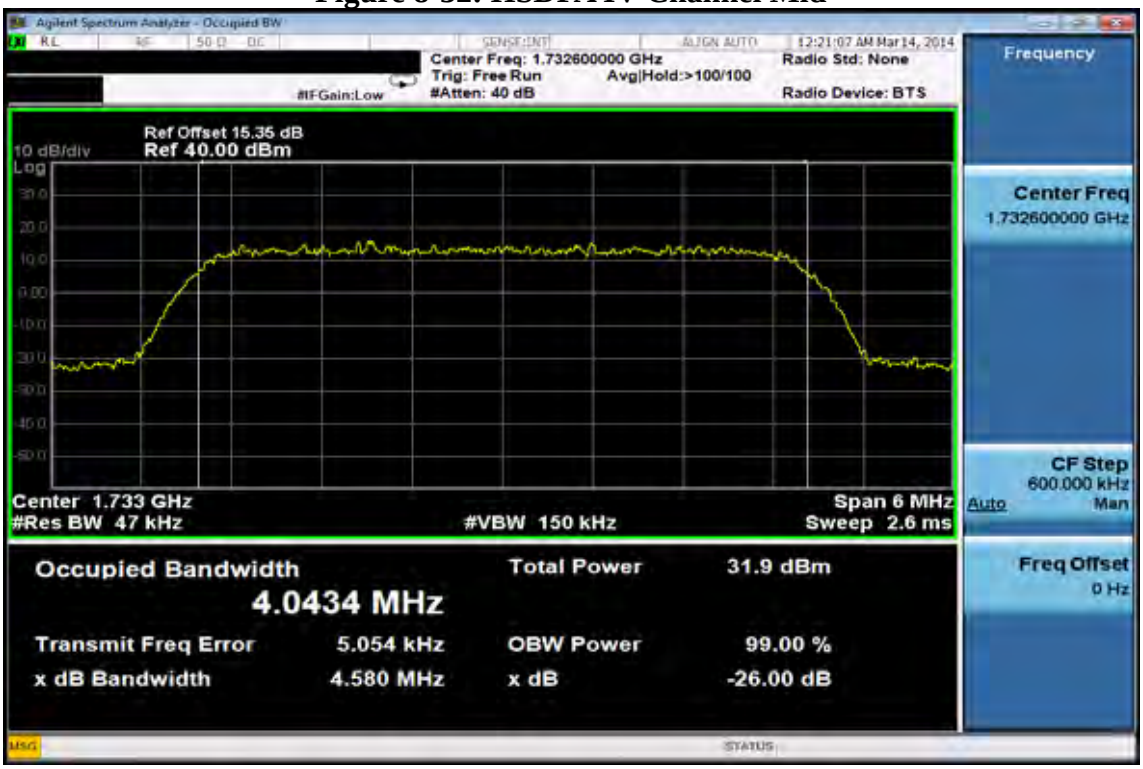

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Figure 8-33: HSDPA IV Channel High

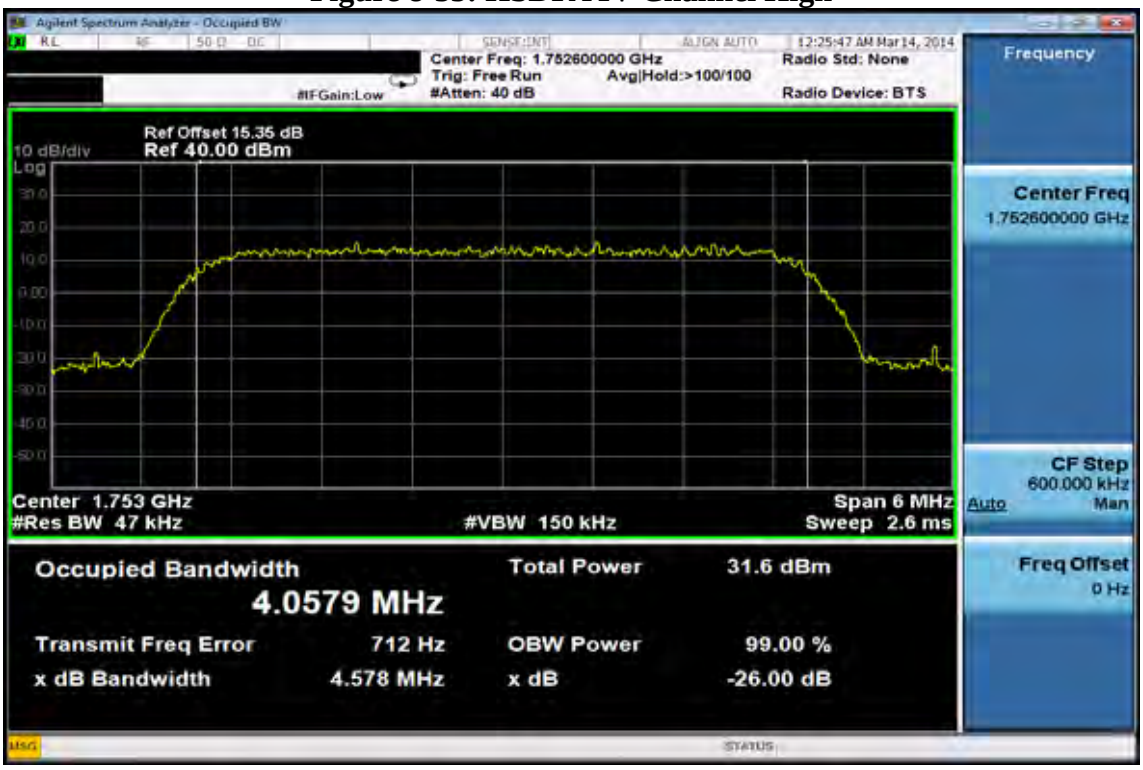

Figure 8-34: HSDPA V Channel Low

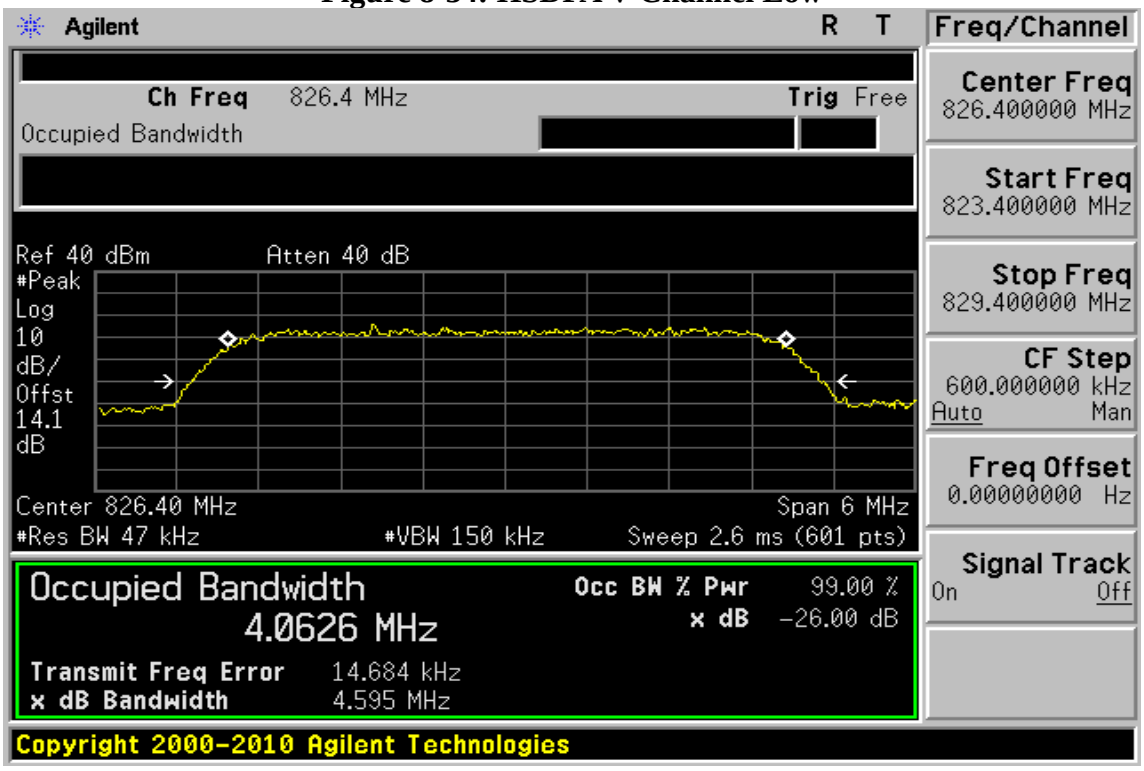

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Figure 8-35: HSDPA V Channel Mid

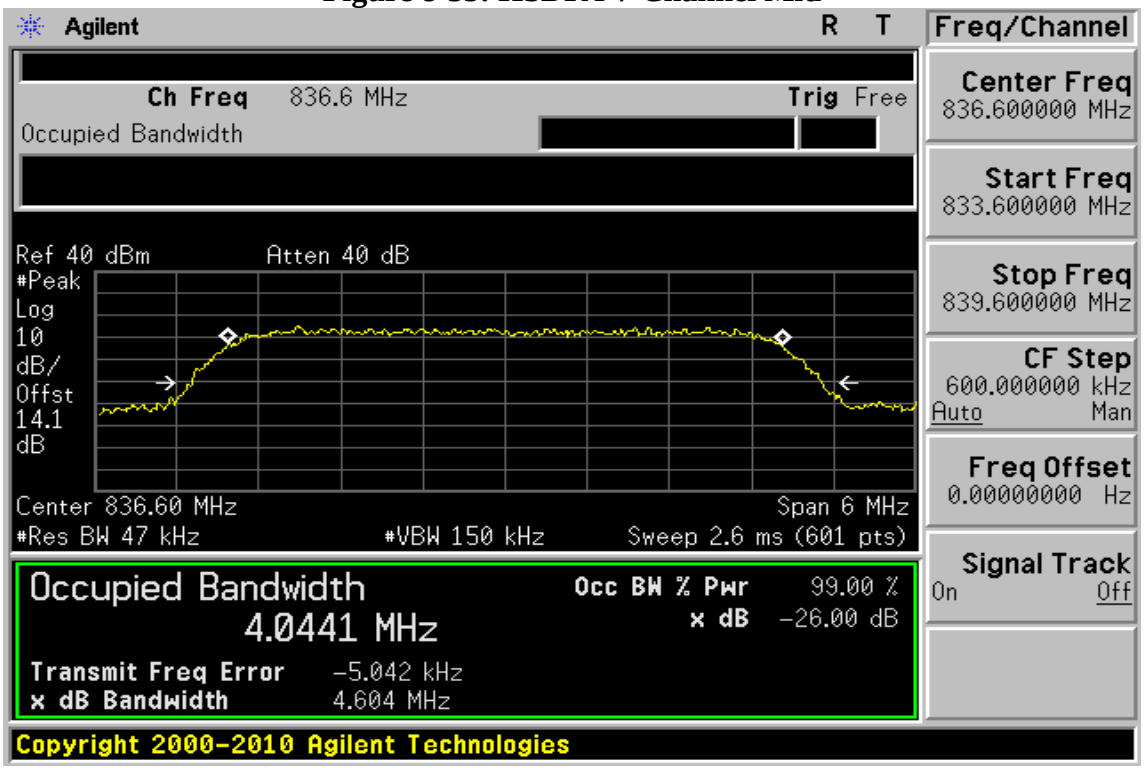

Figure 8-36: HSDPA V Channel High

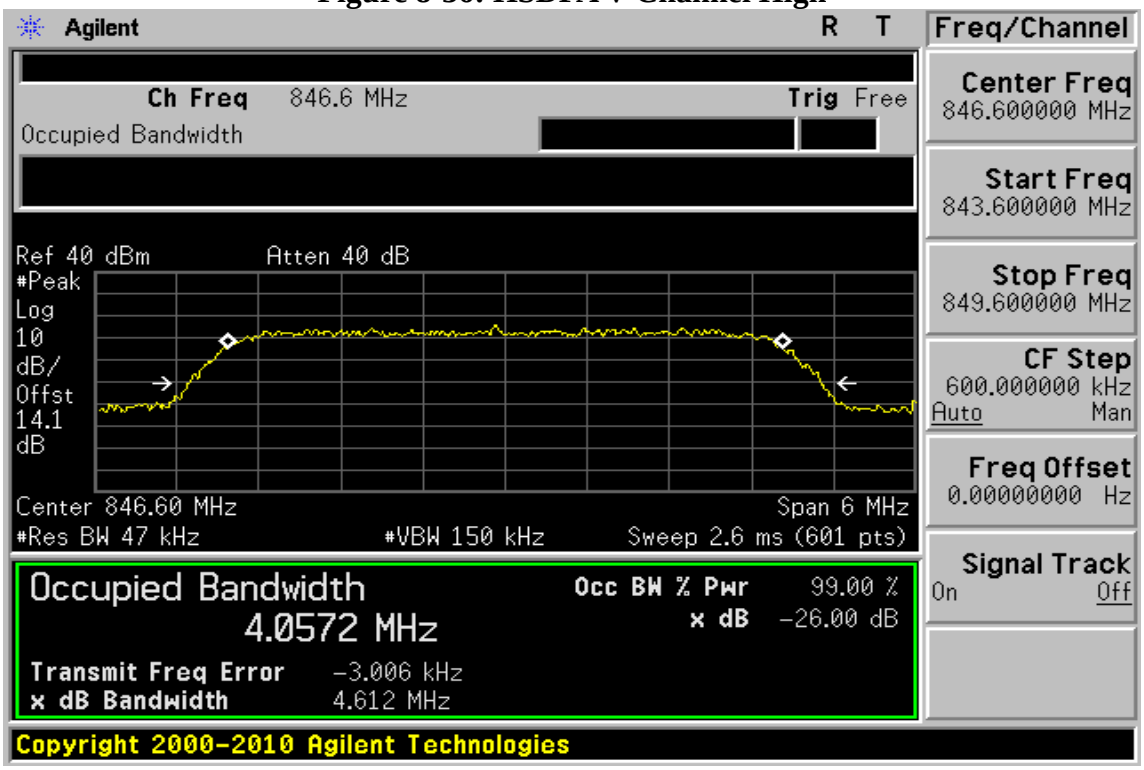

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Figure 8-37: HSUPA II Channel Low

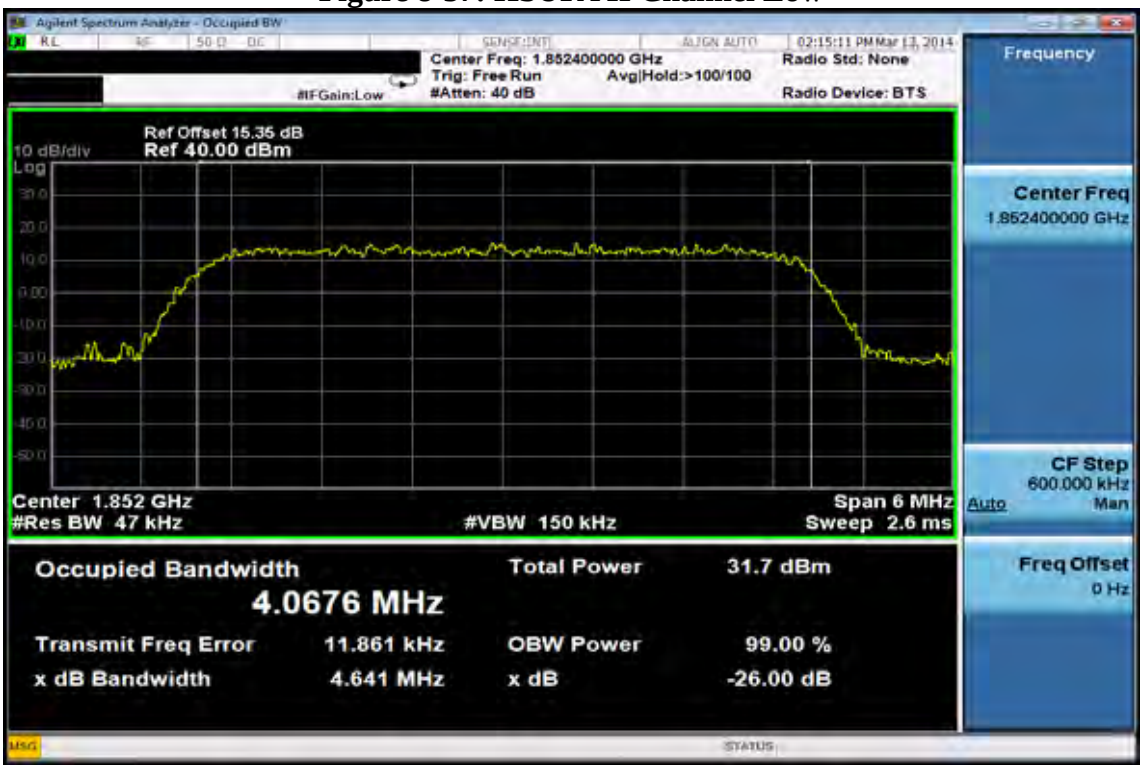

Figure 8-38: HSUPA II Channel Mid

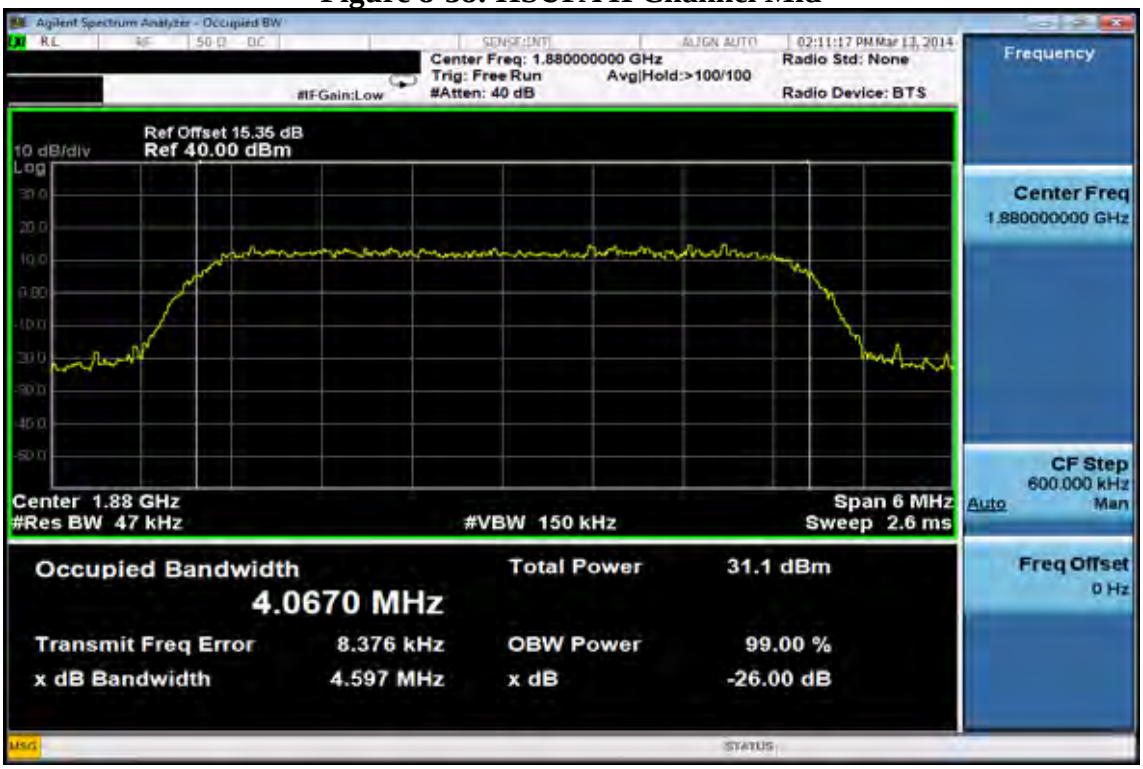

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Figure 8-39: HSUPA II Channel High

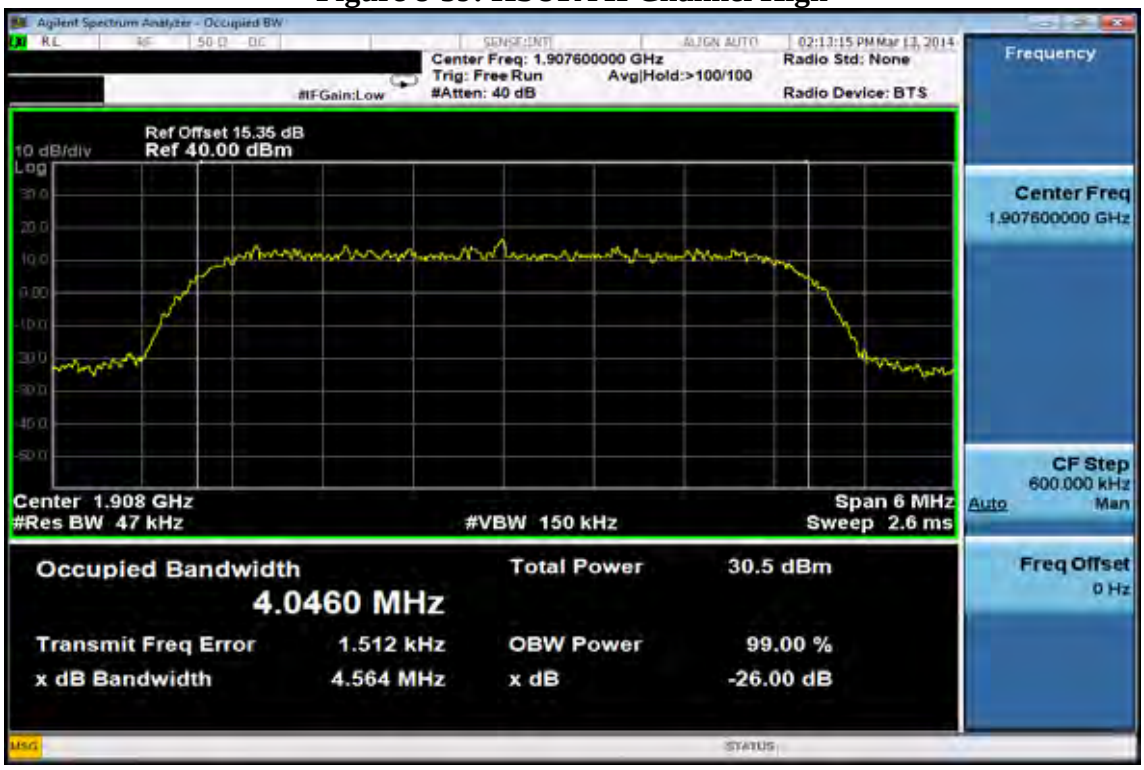

Figure 8-40: HSUPA IV Channel Low

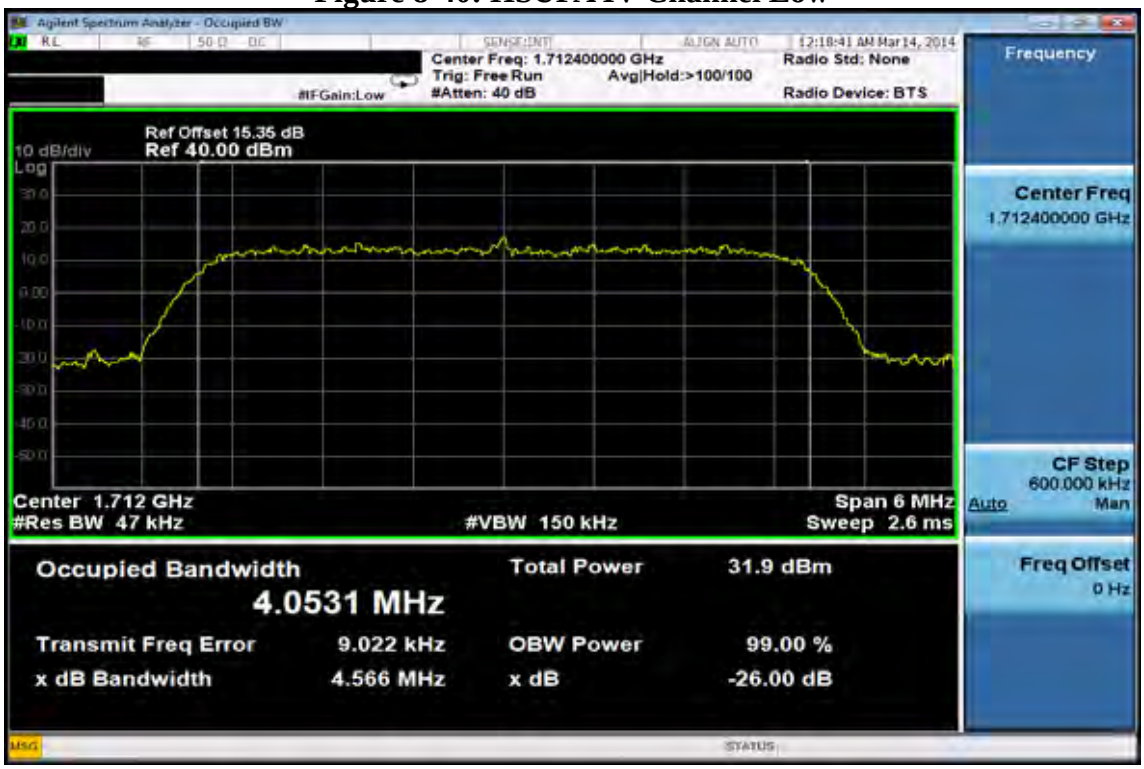

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Figure 8-41: HSUPA IV Channel Mid

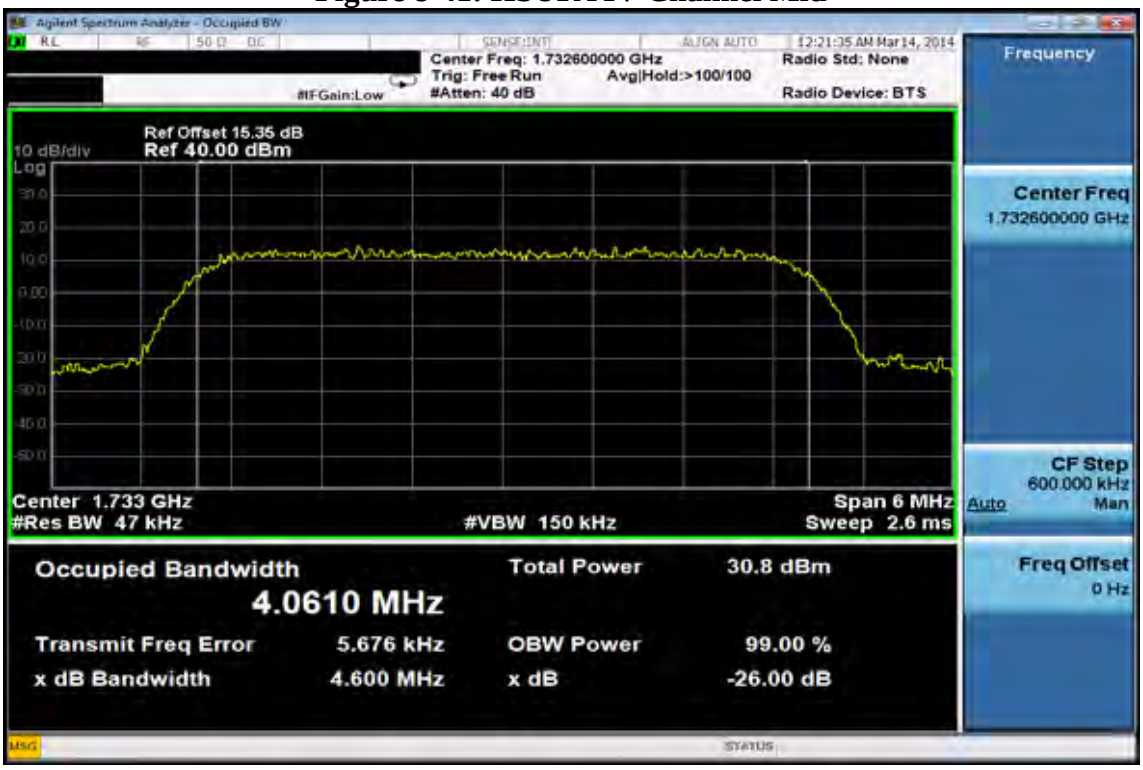

Figure 8-42: HSUPA IV Channel High

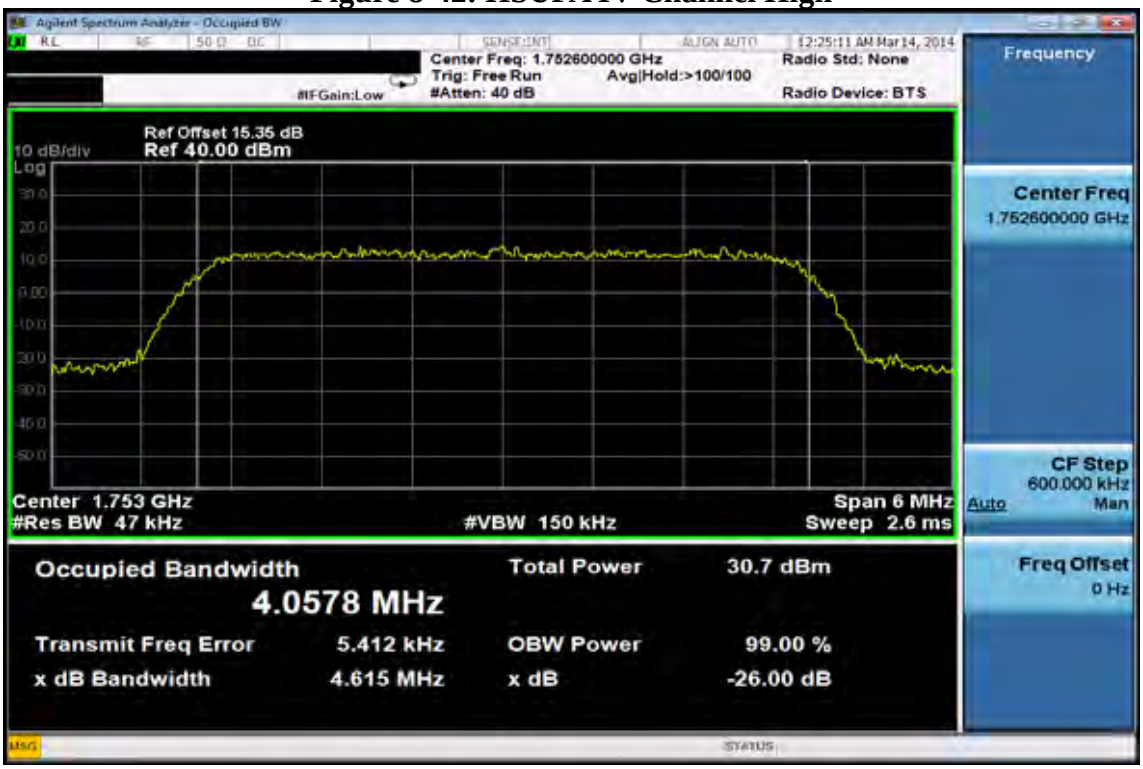

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Figure 8-43: HSUPA V Channel Low

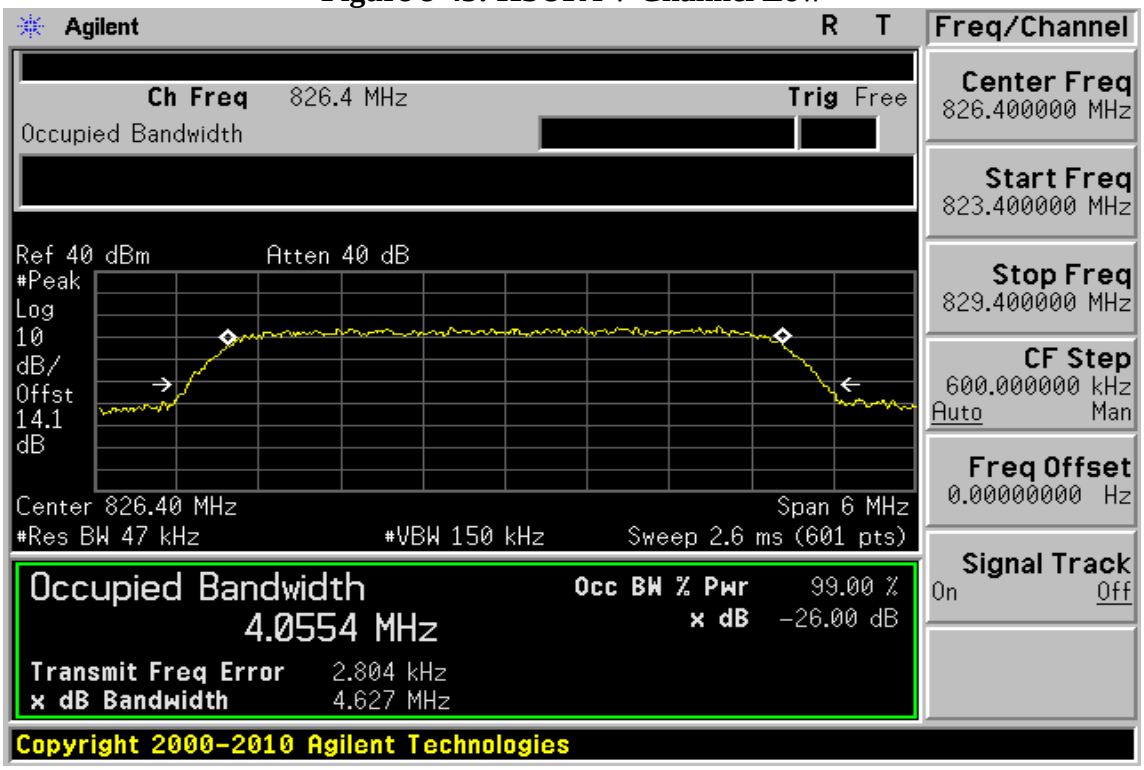

Figure 8-44: HSUPA V Channel Mid

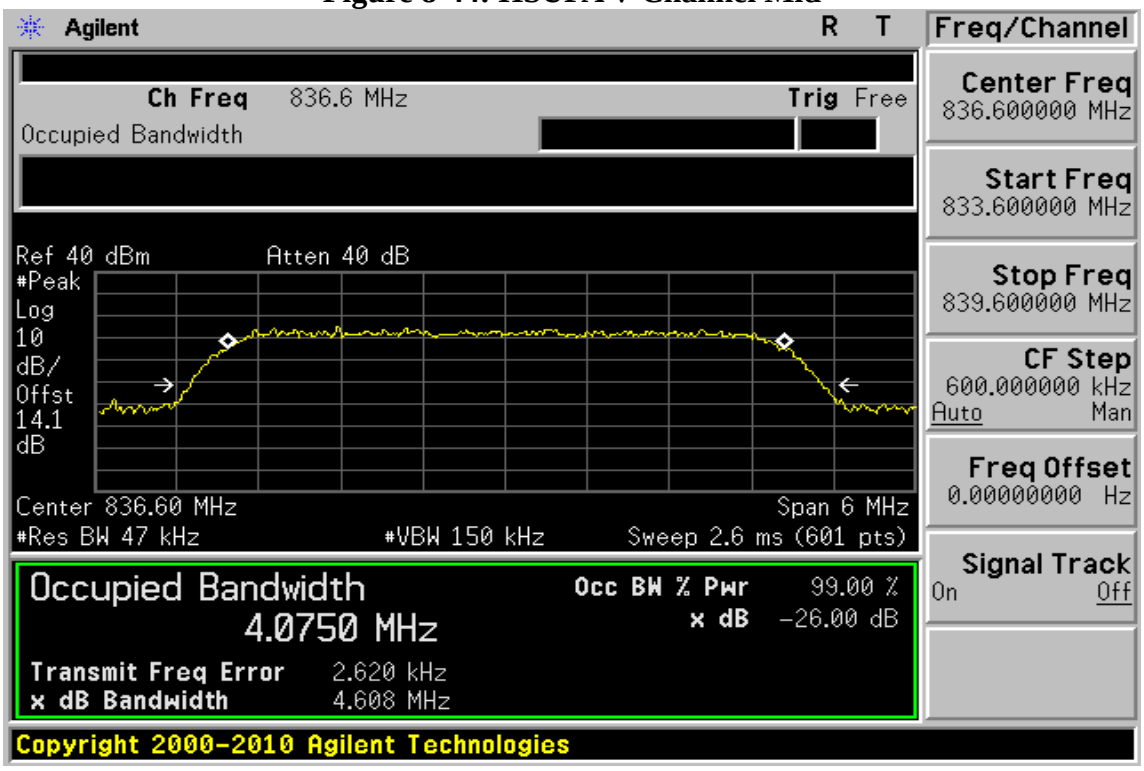

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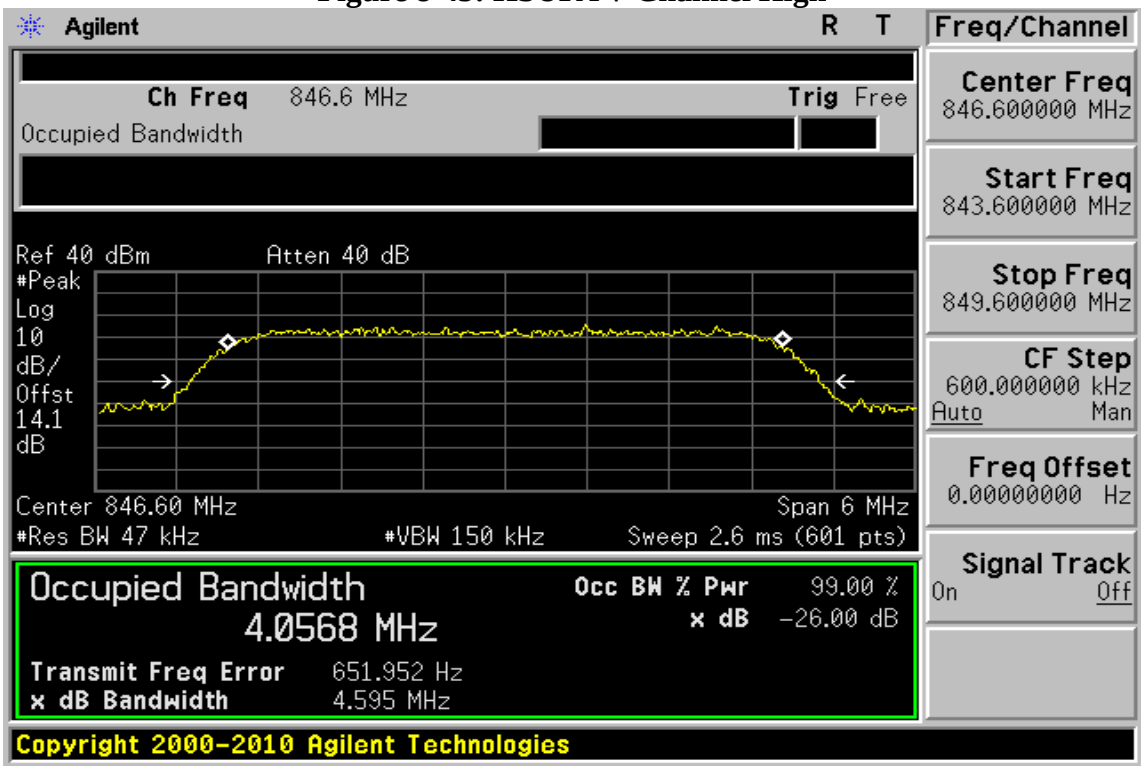
Figure 8-45: HSUPA V Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

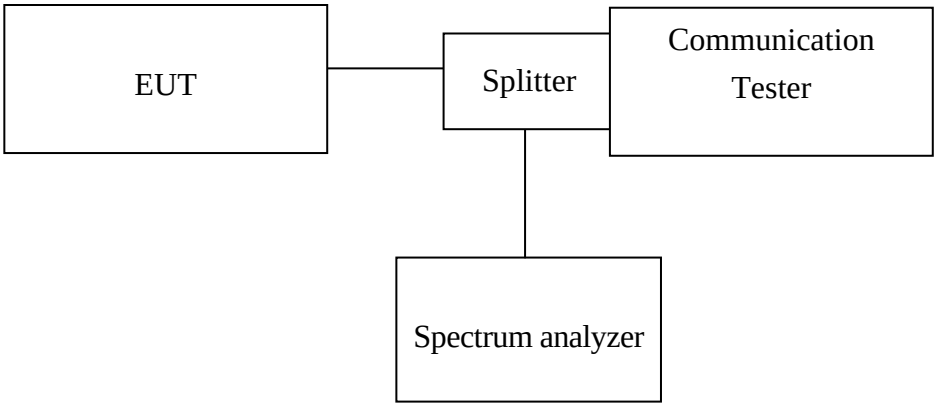
9.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), §27.53(h) 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. Test SET-UP:

Out of band emission



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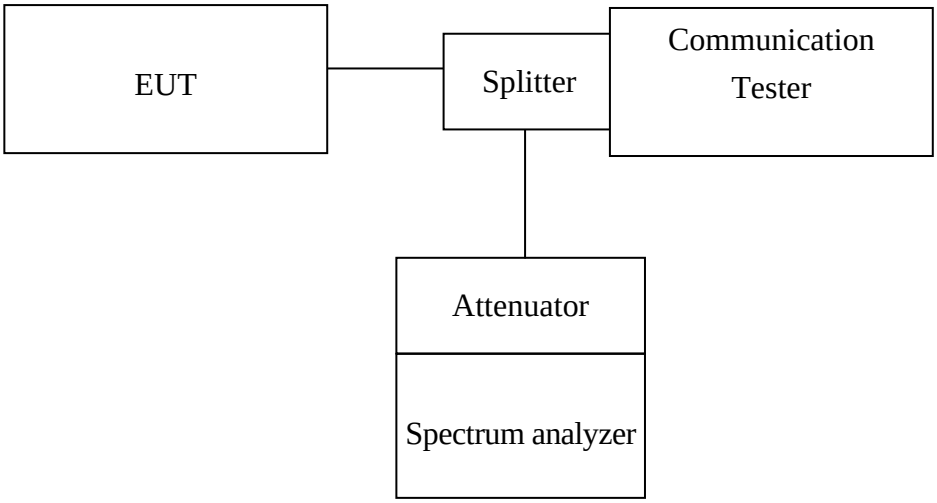
Band Edge



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t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com

9.3. 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.

h) For operations in the 1710–1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10 (P) dB. Limit, -13dBm

(1) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. Limit, -13dBm

Conducted Emission:

1、 To connect Antenna Port of EUT to Spectrum.
2、 Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3、 Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G ,10G to 15G and 15G to 20GHz
4、 Via Software, combine 6 spans of frequency range into one plot

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

9.5. Measurement Result:

Refer to next pages.

NOTE: the occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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Figure 9-1: Out of Band emission at antenna terminals – GSM 850 Channel Lowest

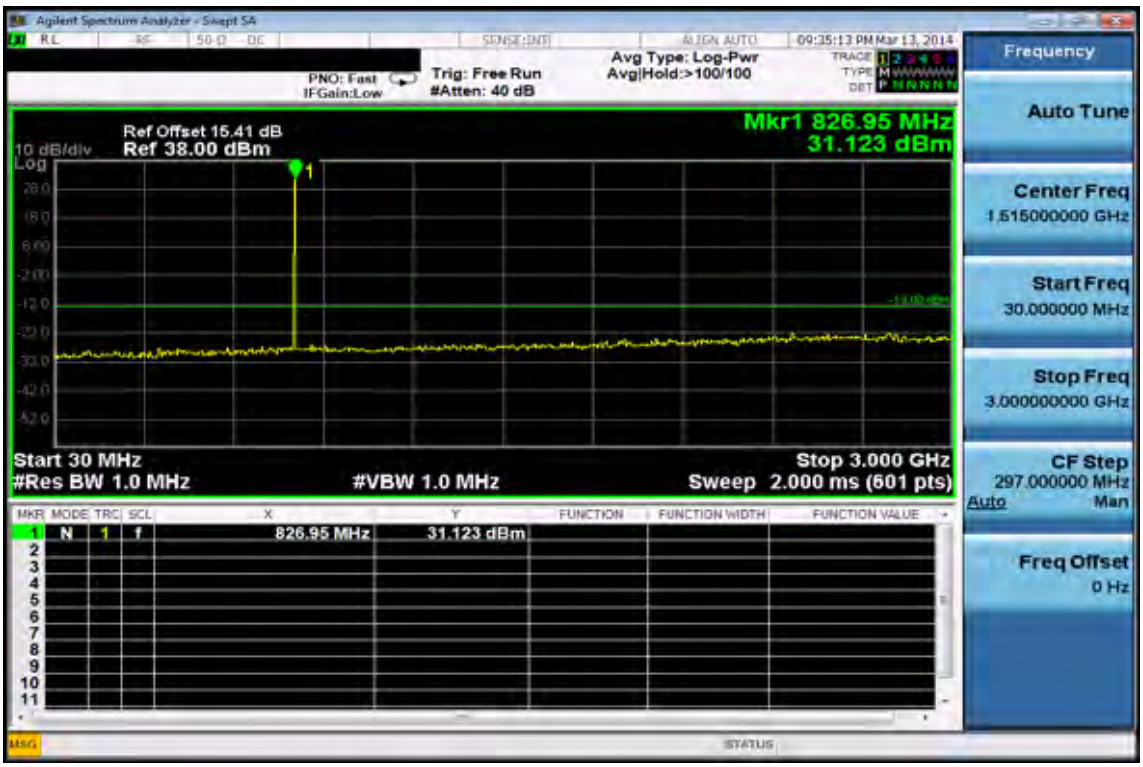

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Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid

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Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest

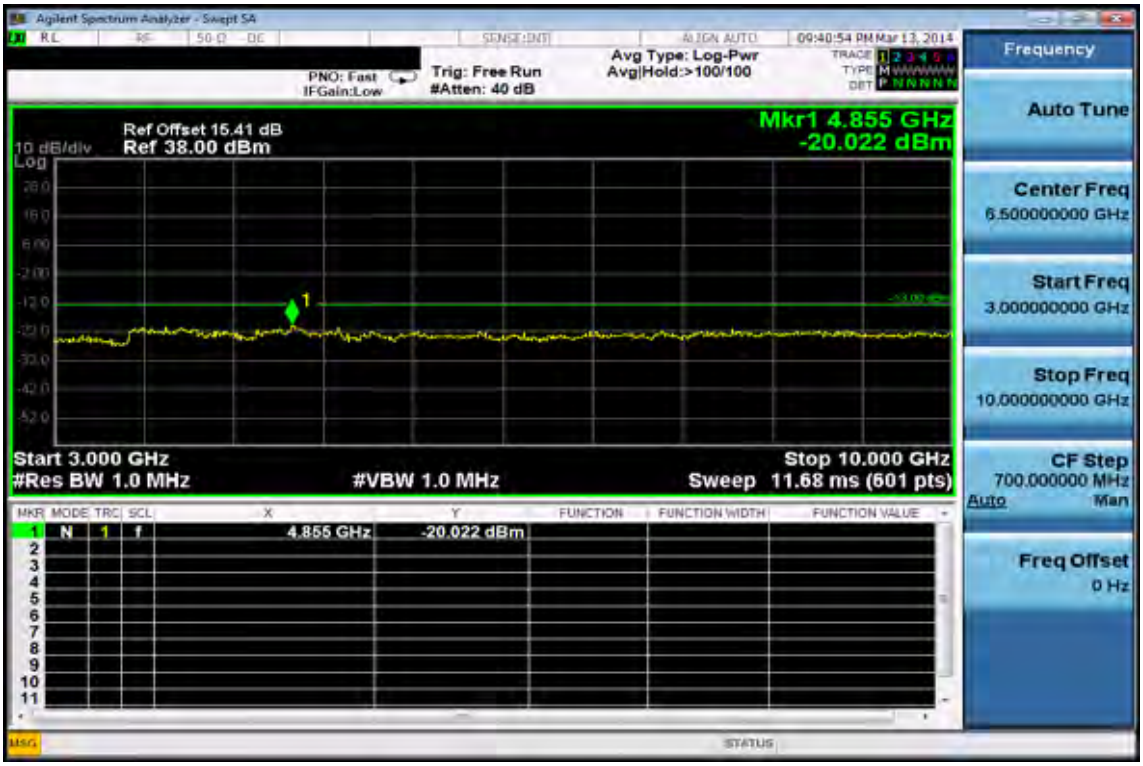

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Figure 9-4: Band edge emission at antenna terminals – GSM 850 Channel Lowest

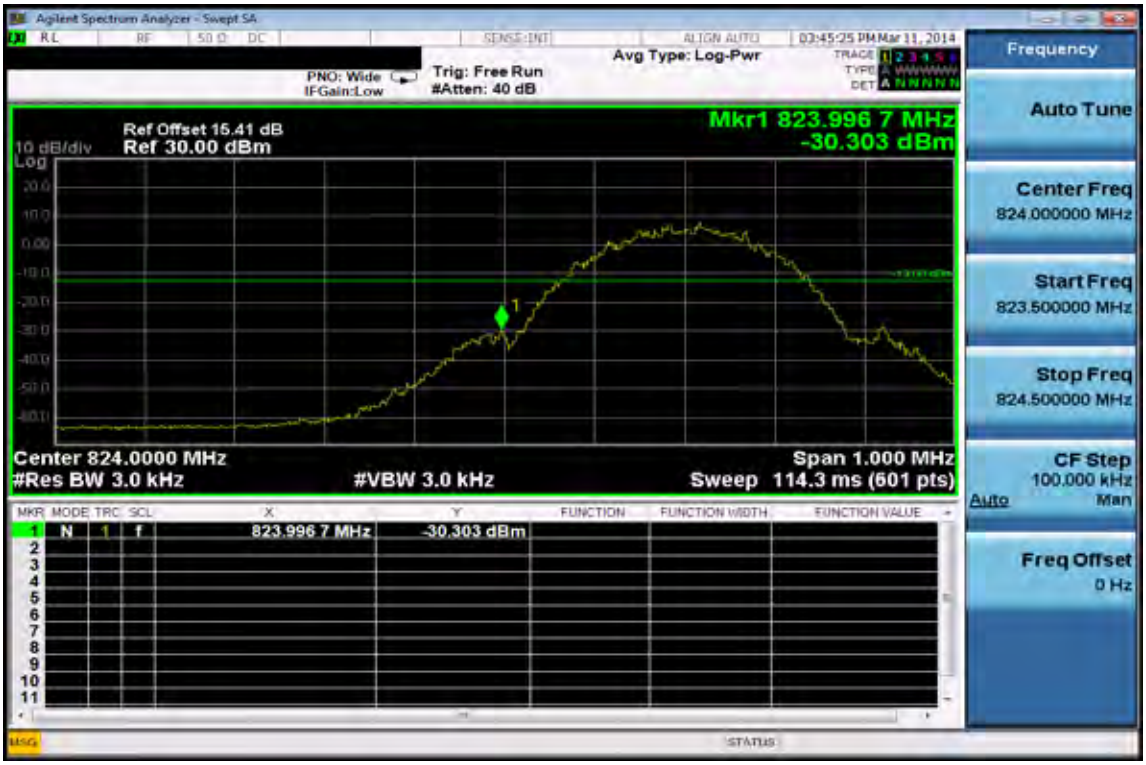

Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest

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Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest

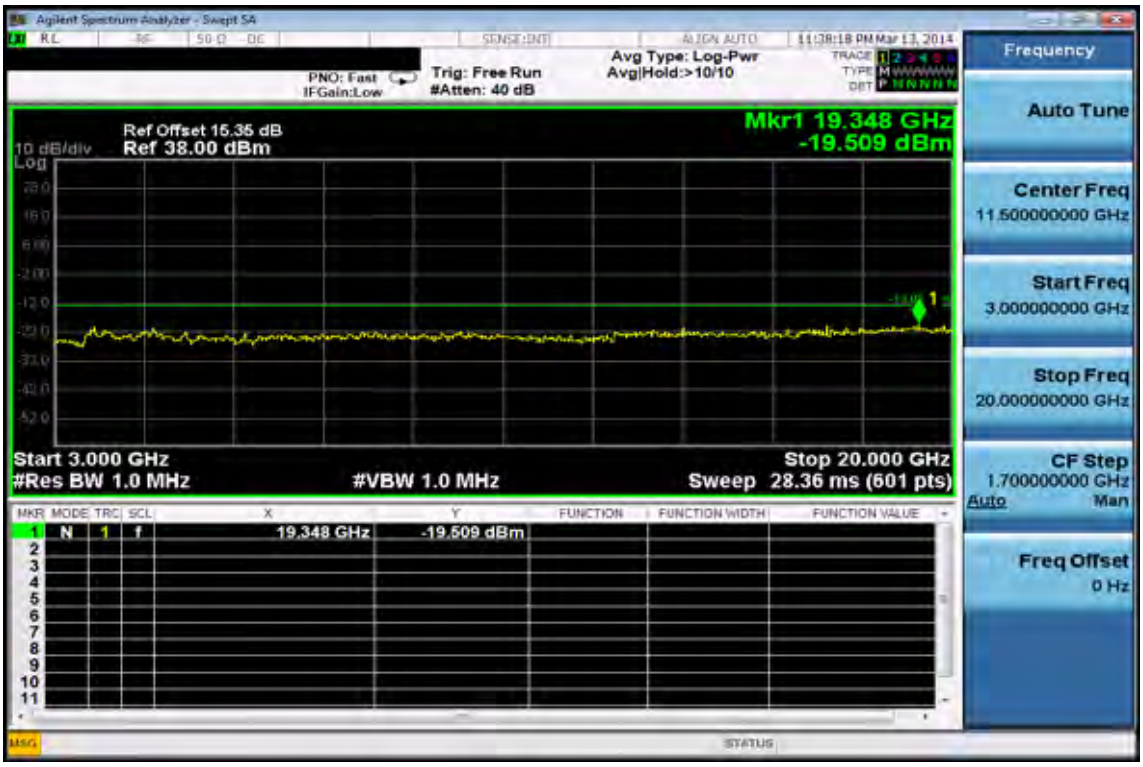

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Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid

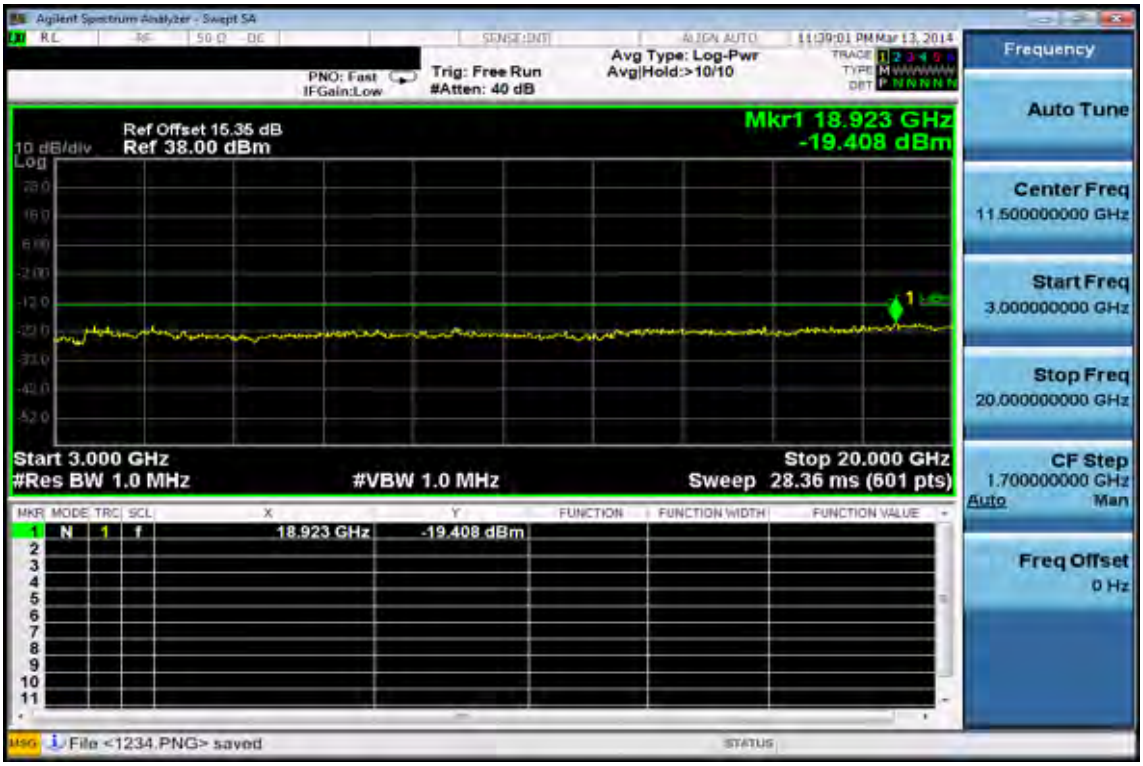

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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest

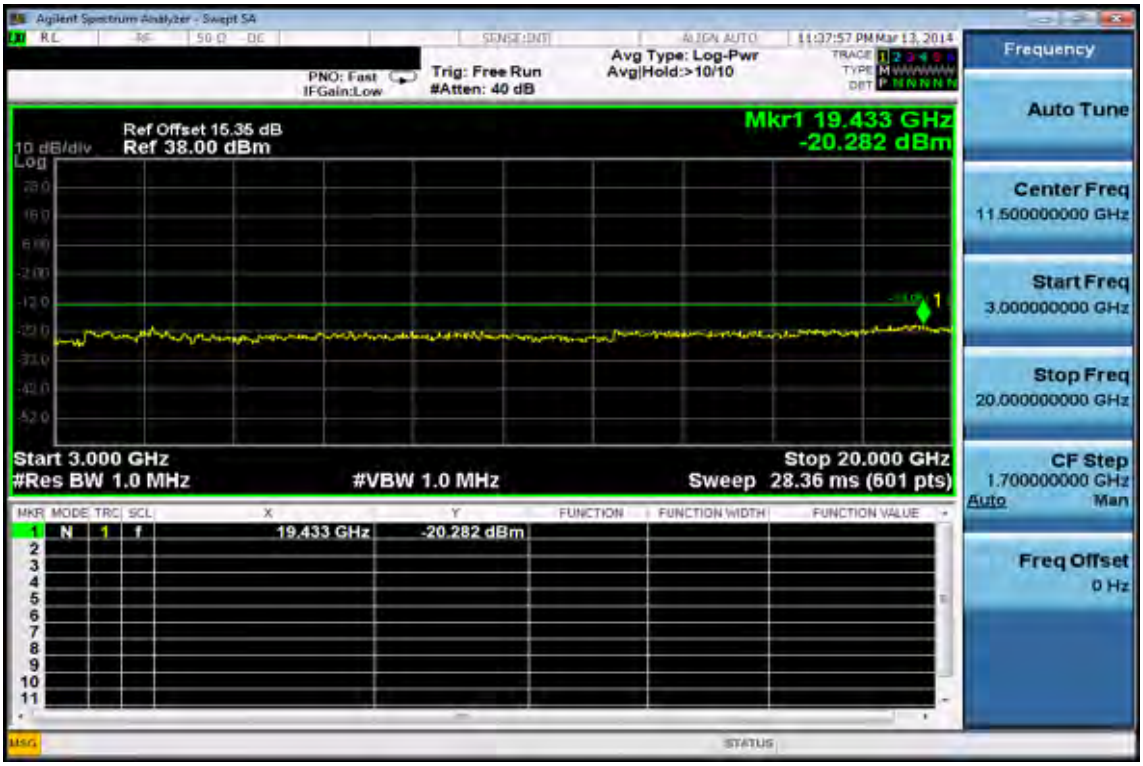

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Figure 9-9: Band edge emission at antenna terminals – GSM 1900 Channel Lowest

Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest

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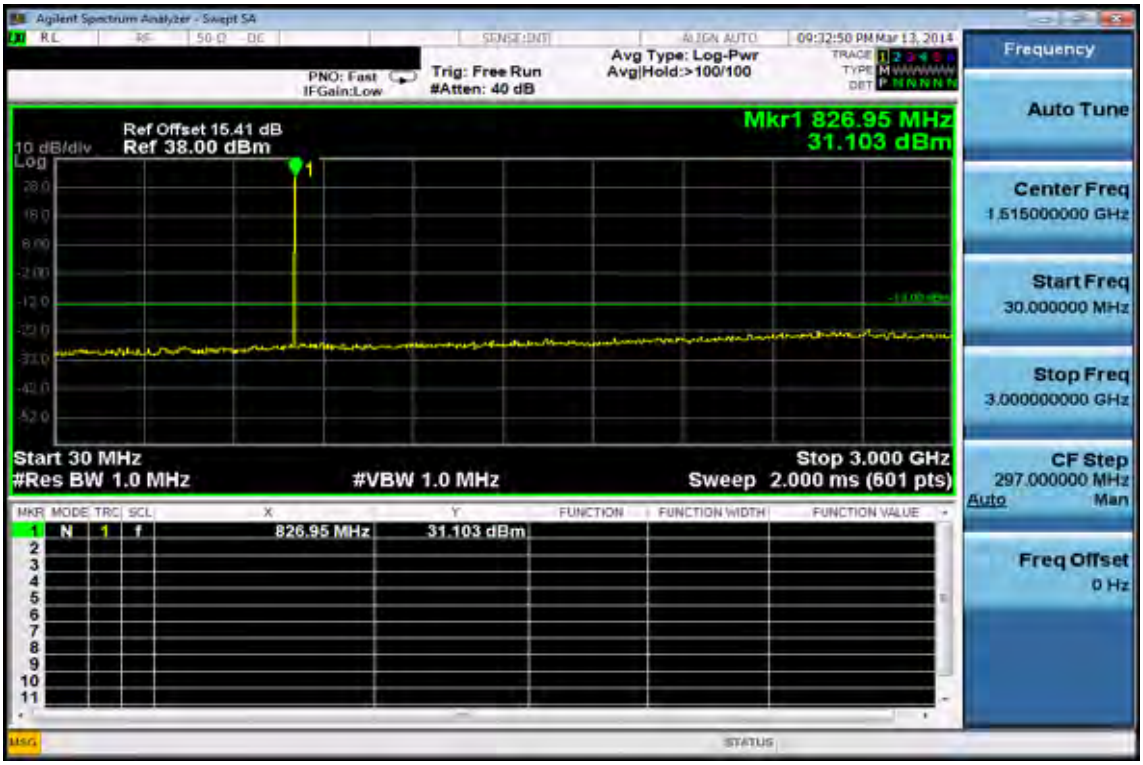
Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest



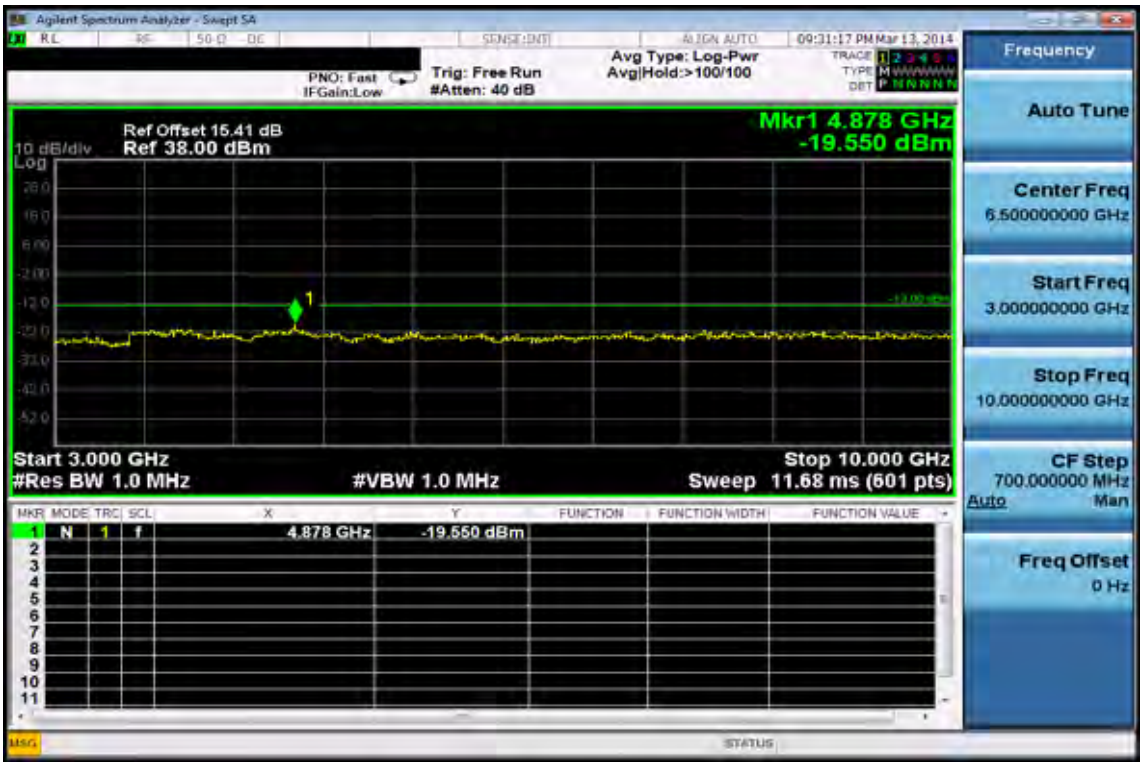


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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid

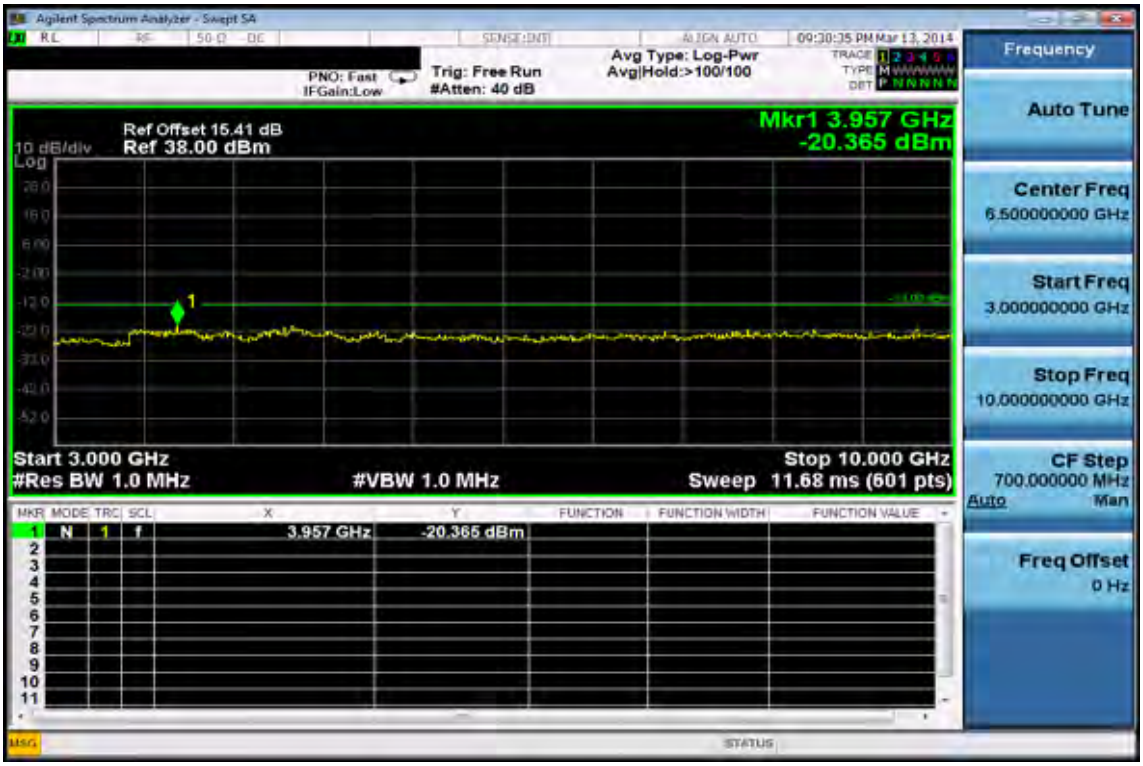

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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest

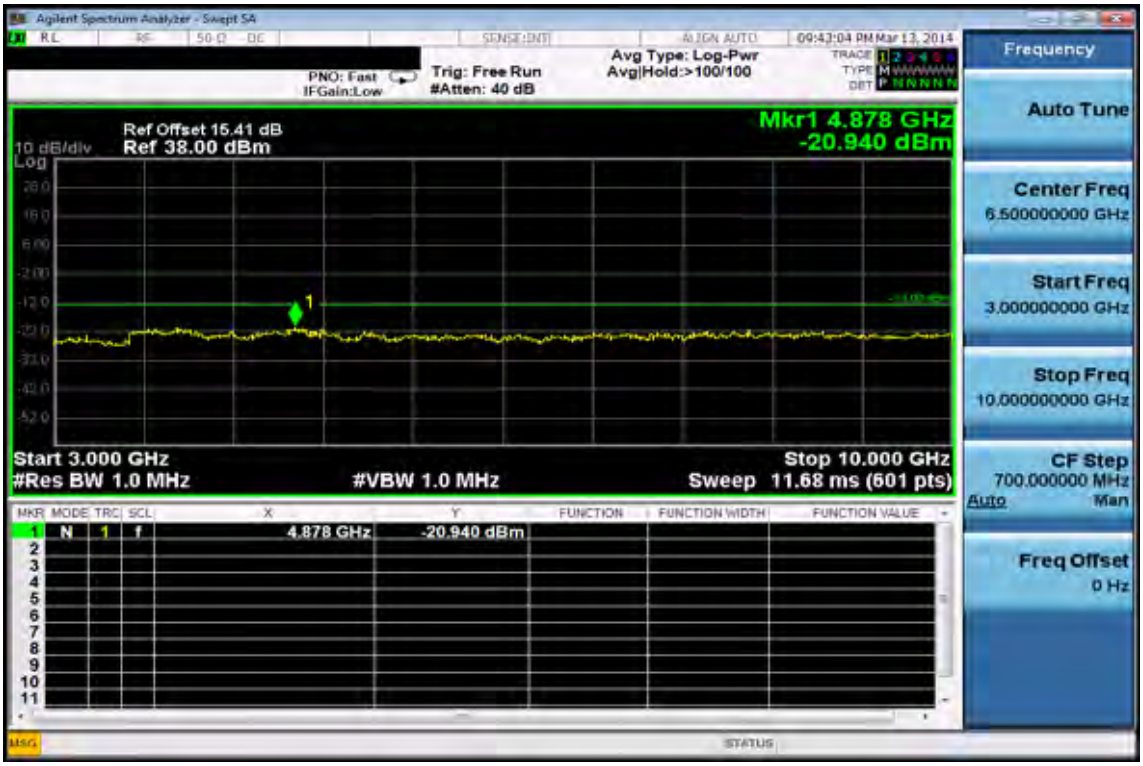

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Figure 9-14: Band edge emission at antenna terminals – GPRS 850 Channel Lowest

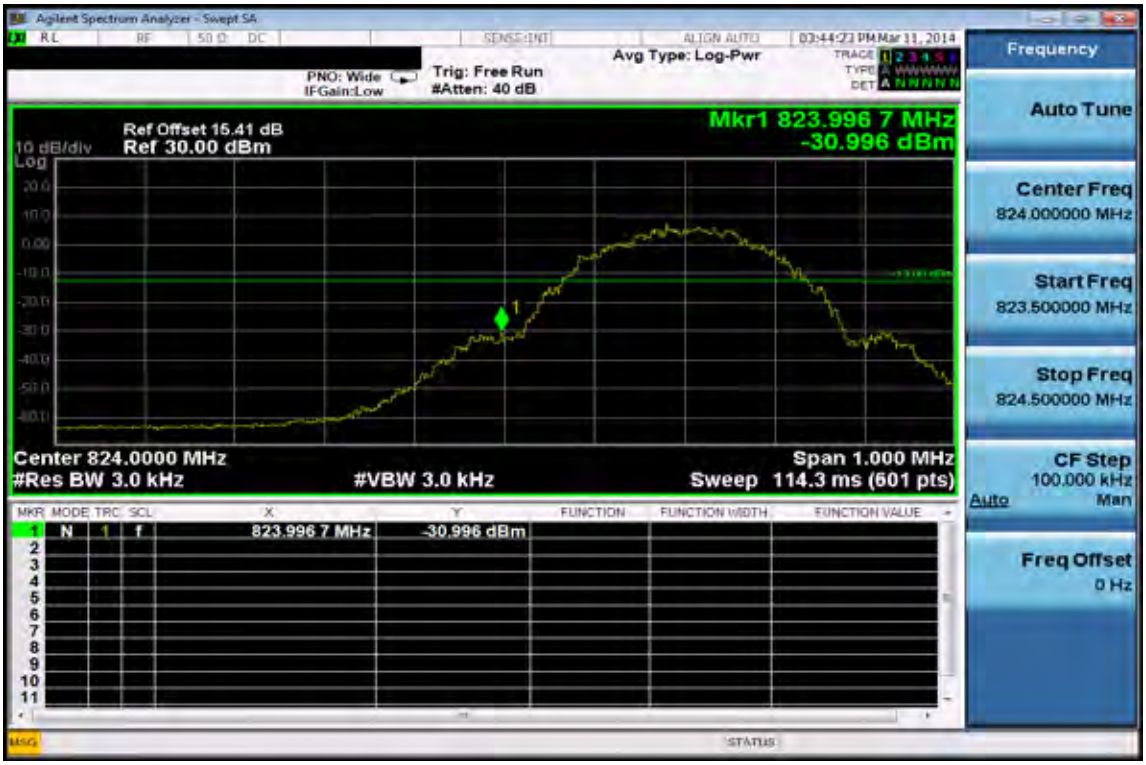

Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest

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Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest

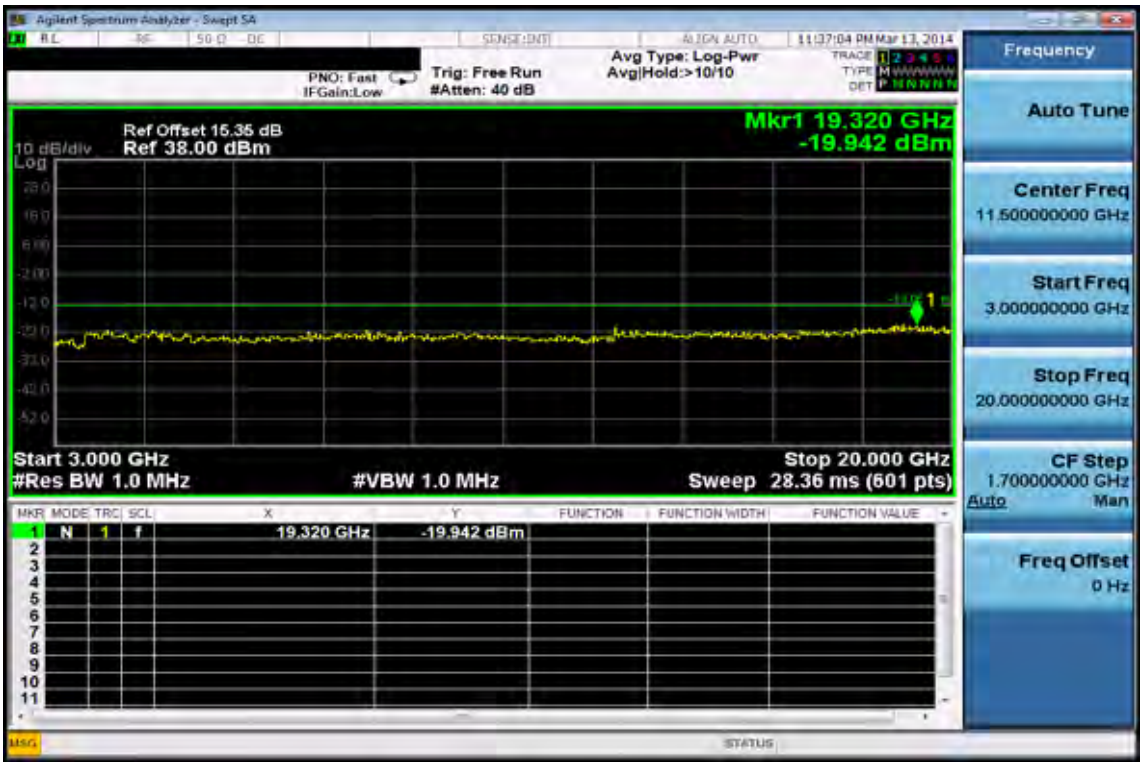

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Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid

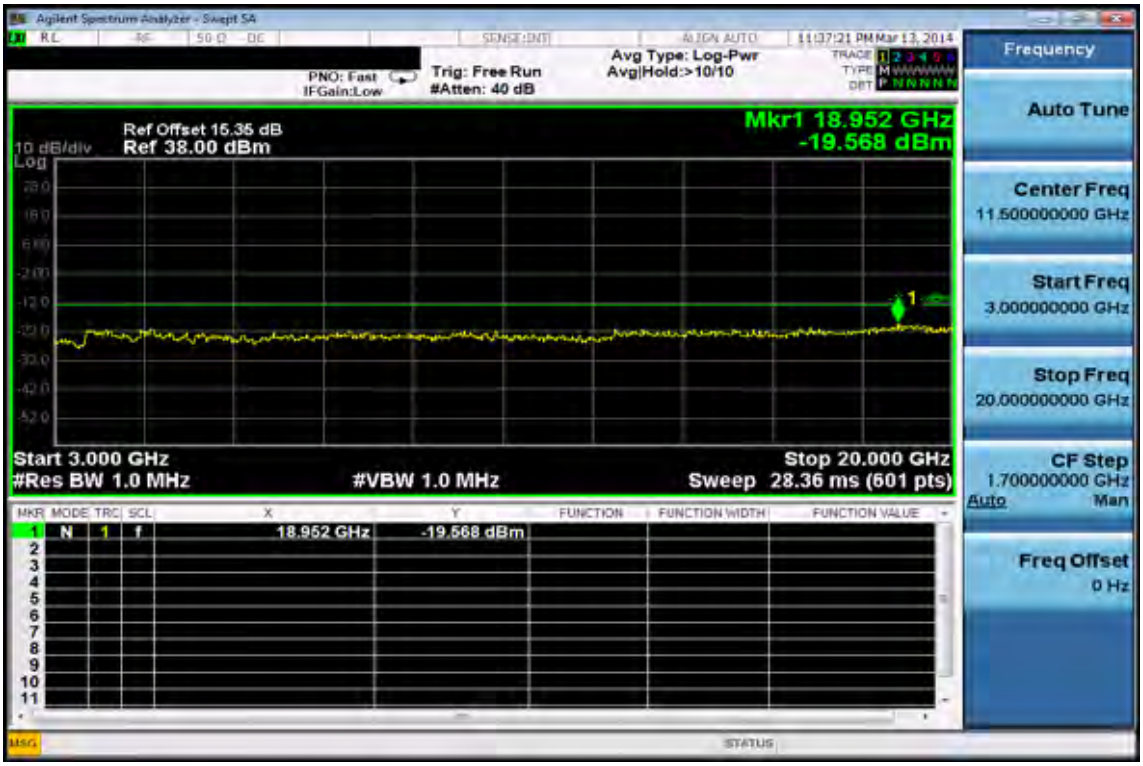

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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest

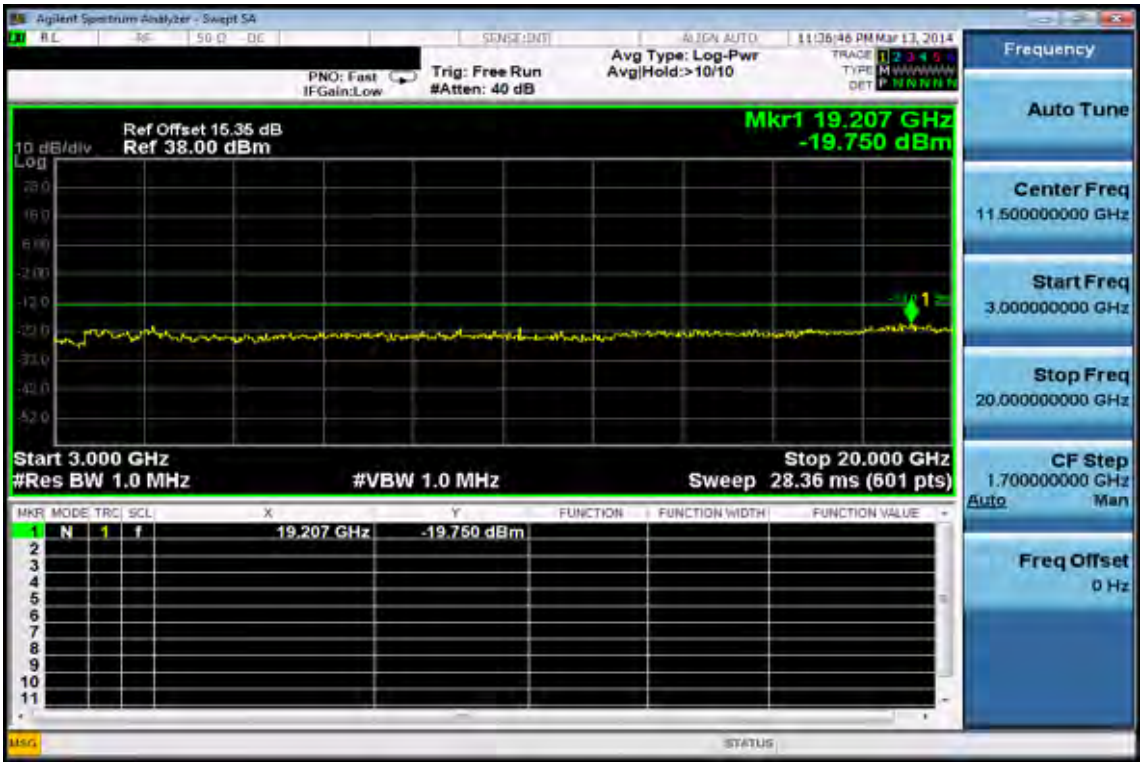

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Figure 9-19: Band edge emission at antenna terminals – GPRS 1900 Channel Lowest

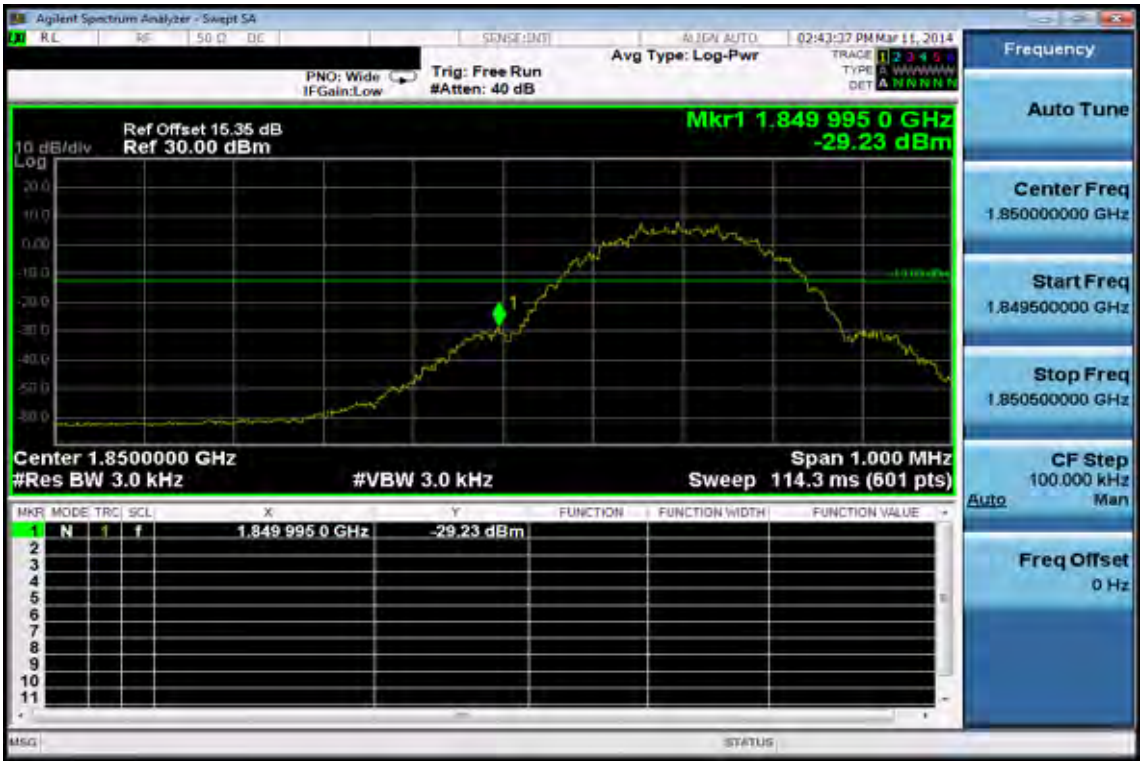

Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest

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Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest

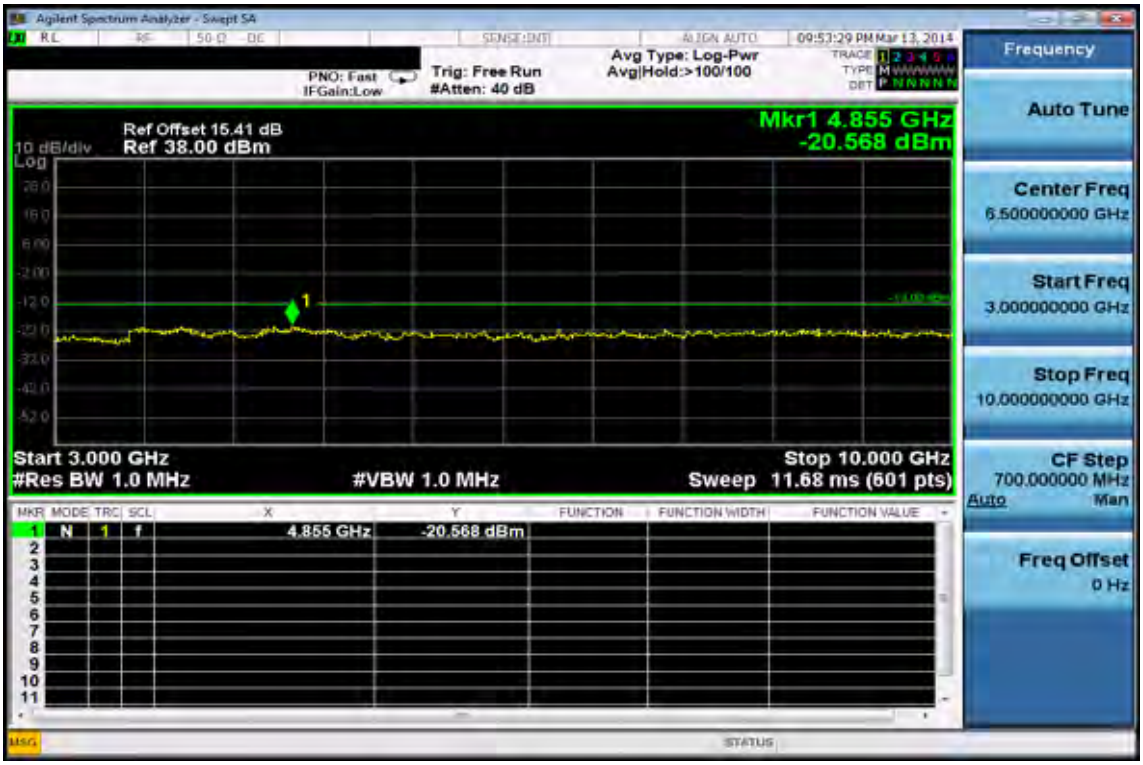

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Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid

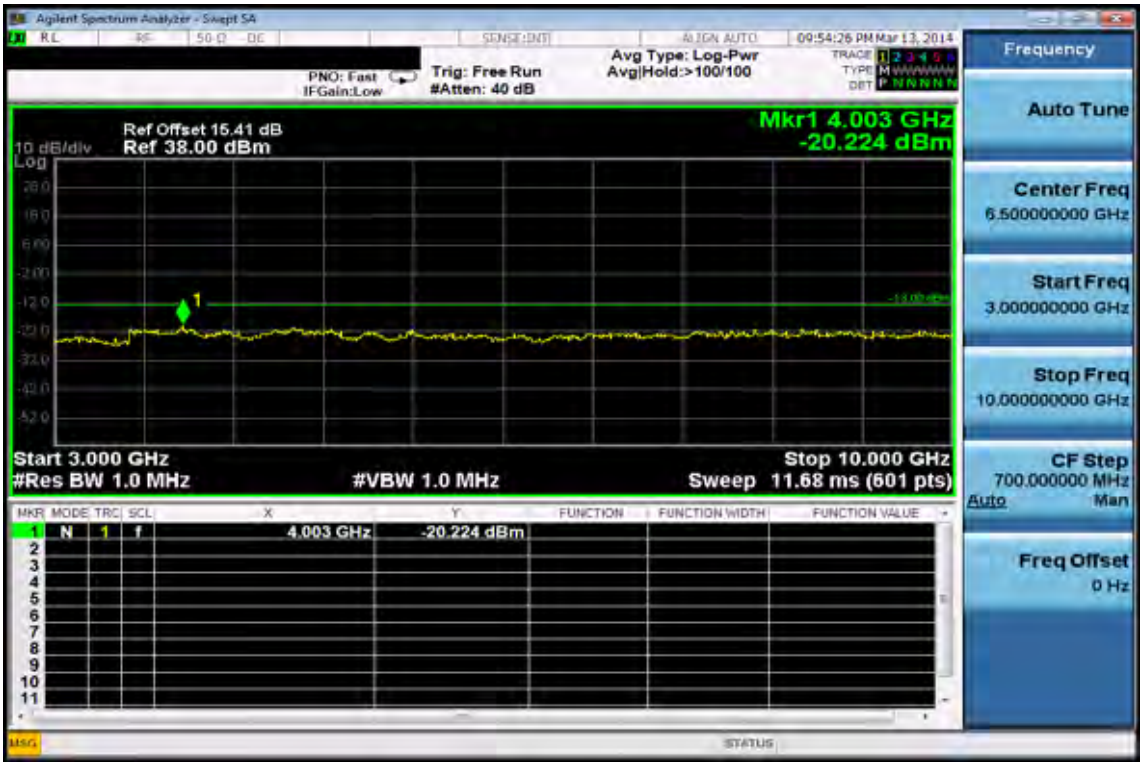

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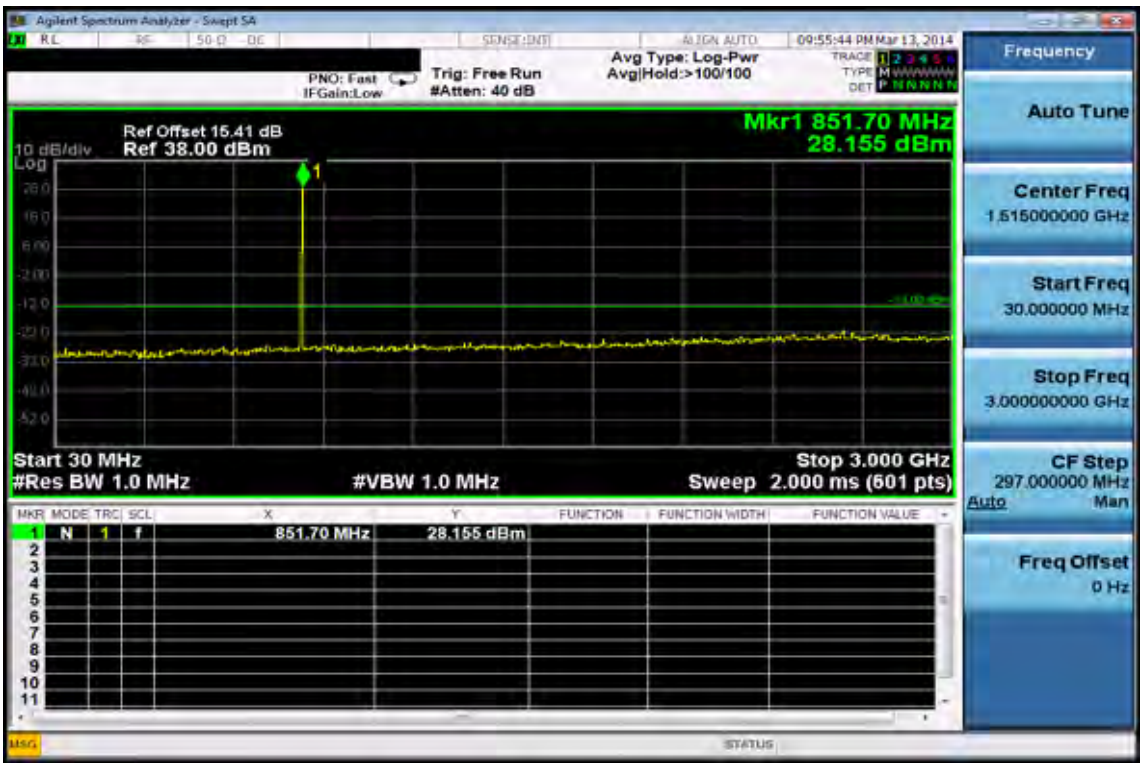
Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



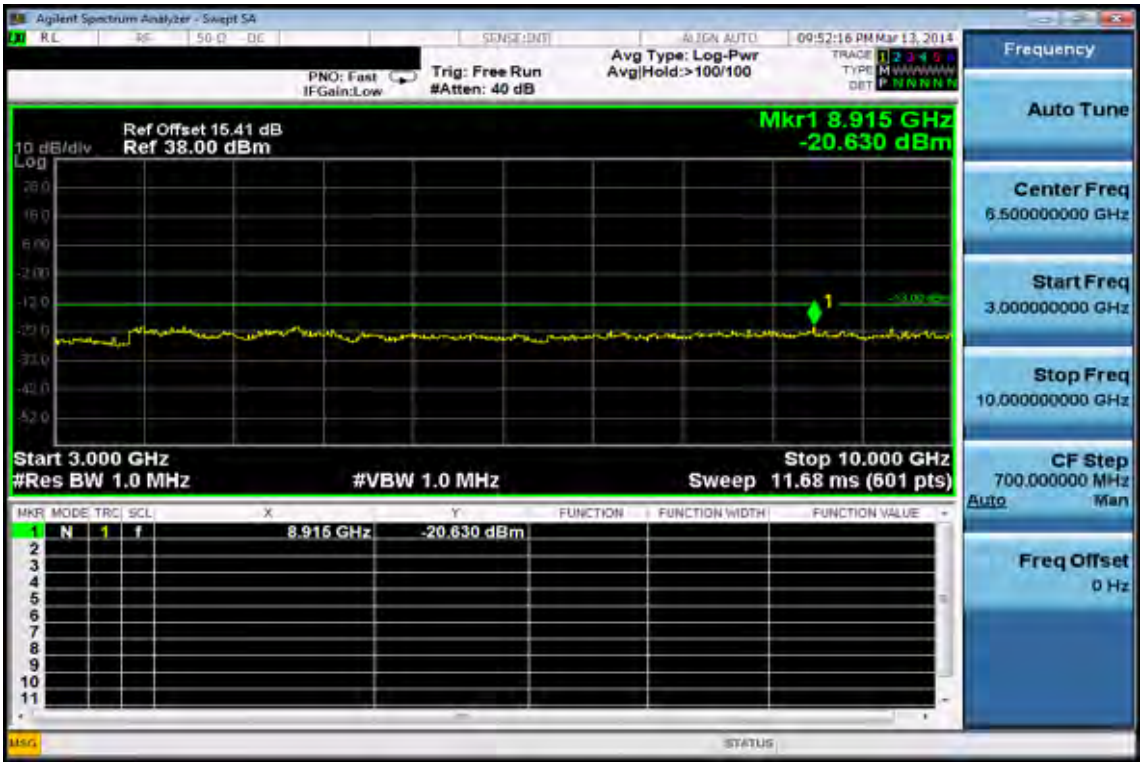


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Figure 9-24: Band edge emission at antenna terminals – EDGE 850 Channel Lowest

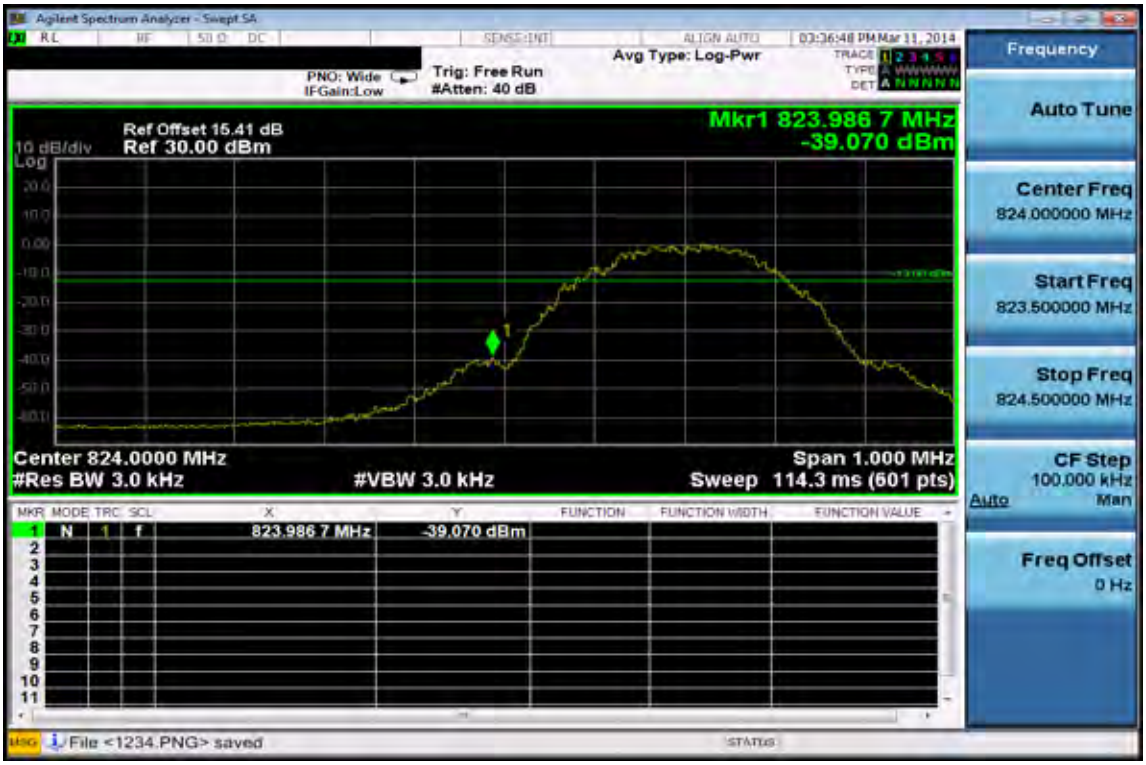

Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest

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Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest

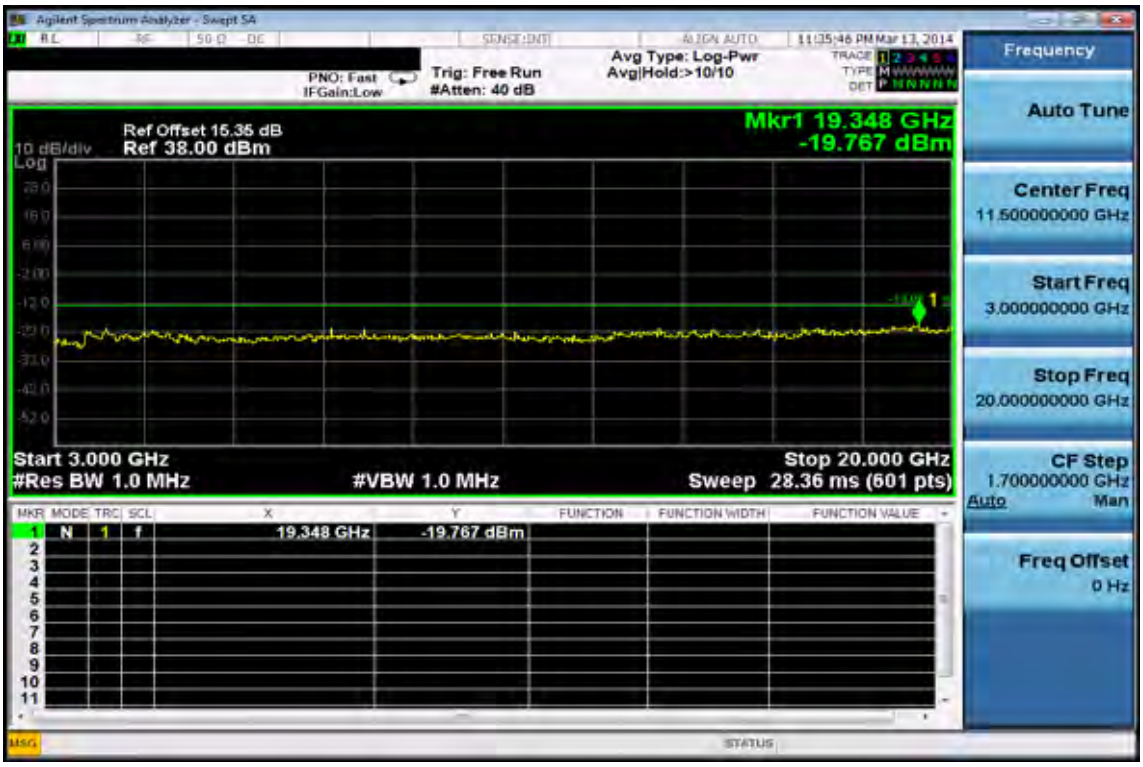

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Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid

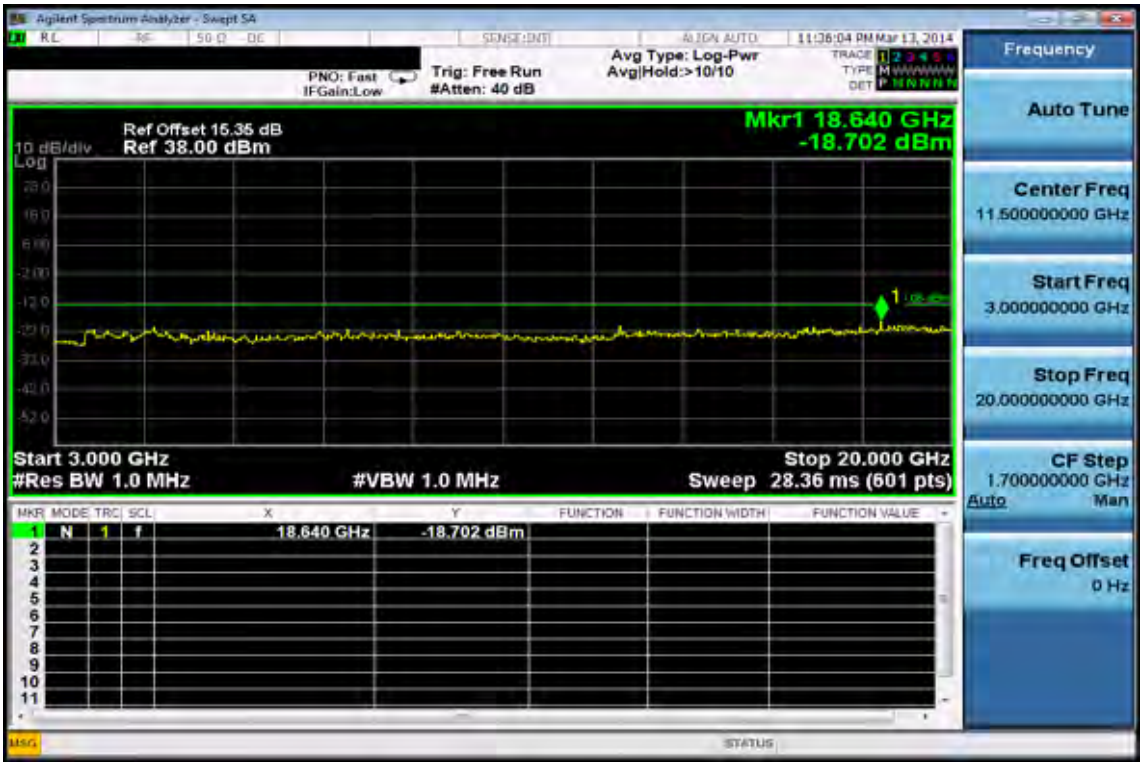

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Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest

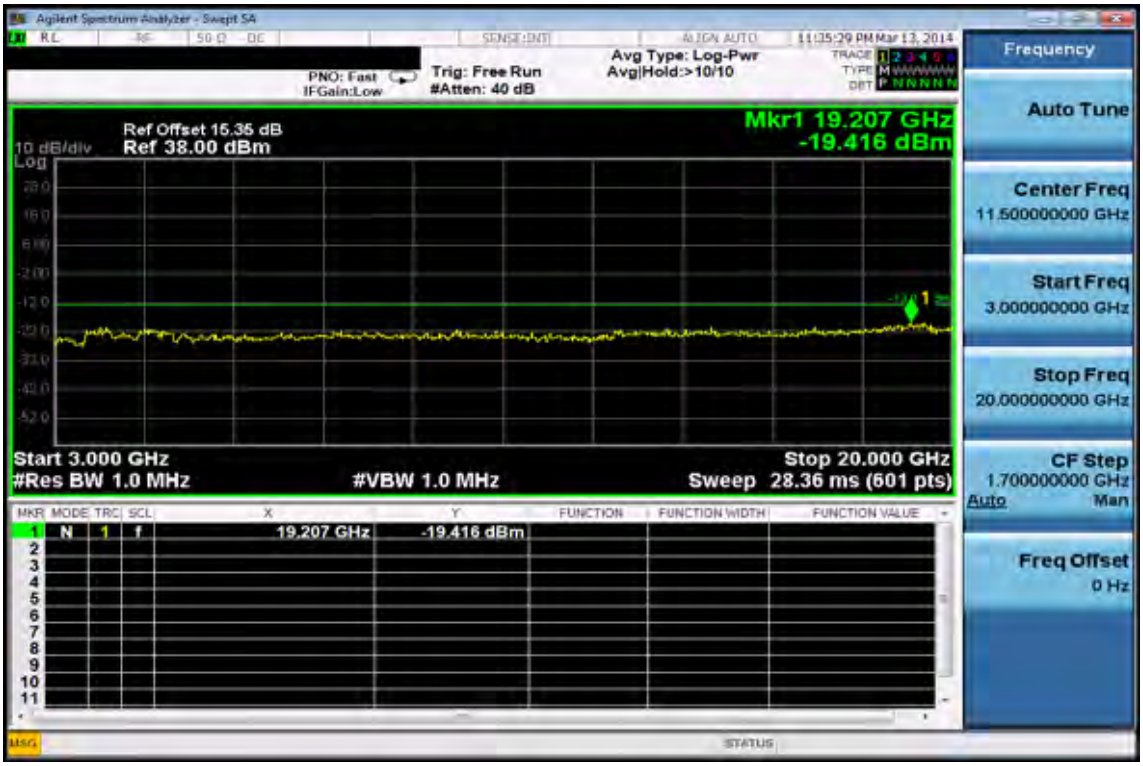

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Figure 9-29: Band edge emission at antenna terminals – EDGE 1900 Channel Lowest

Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest

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Figure 9-31: Out of Band emission at antenna terminals – WCDMA II Channel Lowest

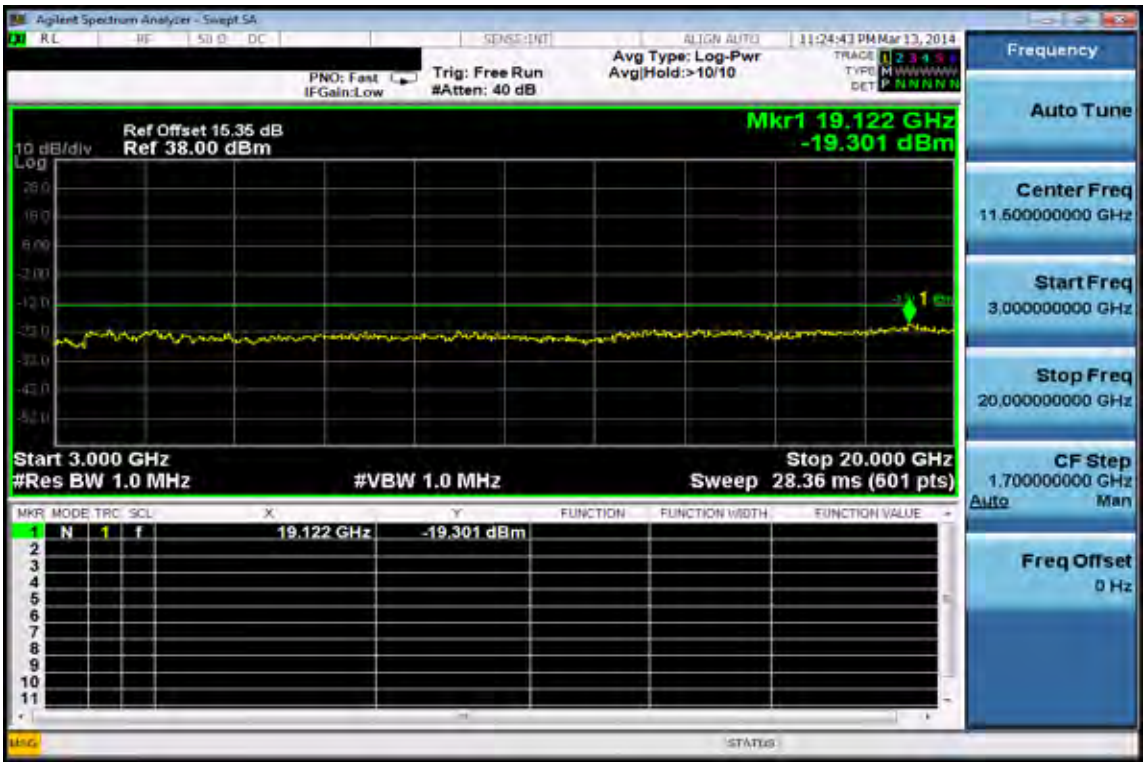

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Figure 9-32: Out of Band emission at antenna terminals – WCDMA II Channel Mid

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Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest

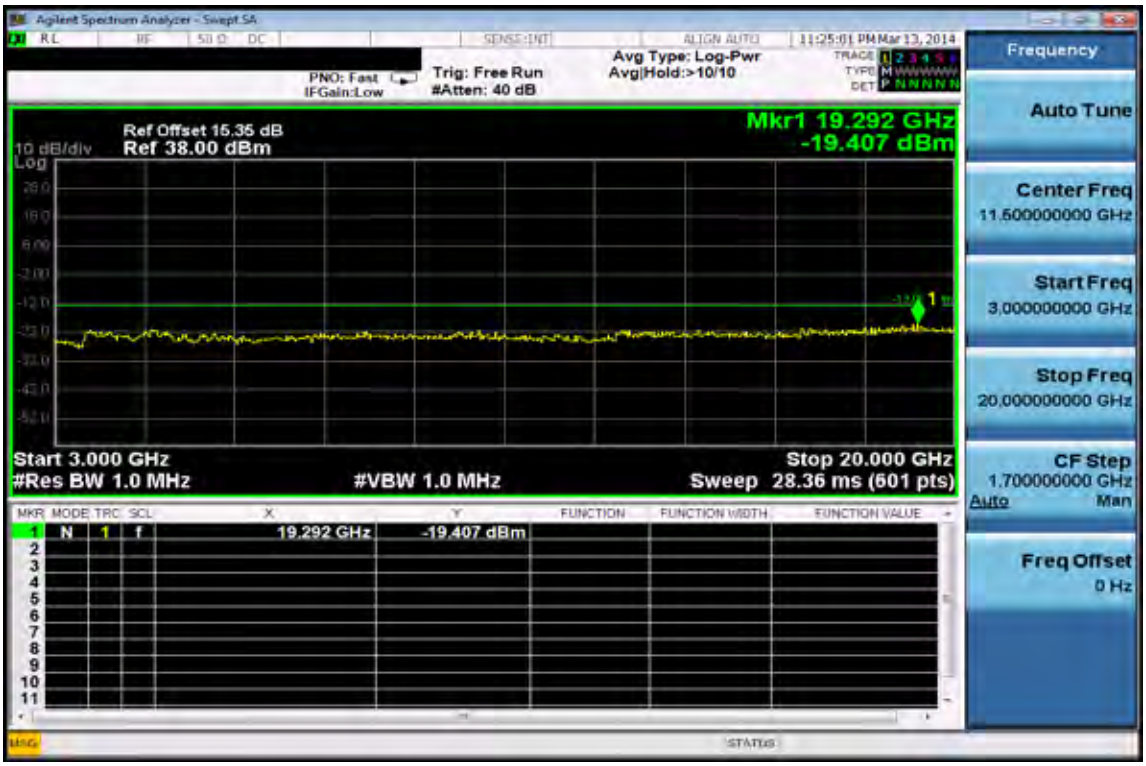

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Figure 9-34: Band edge emission at antenna terminals – WCDMA II Channel Lowest

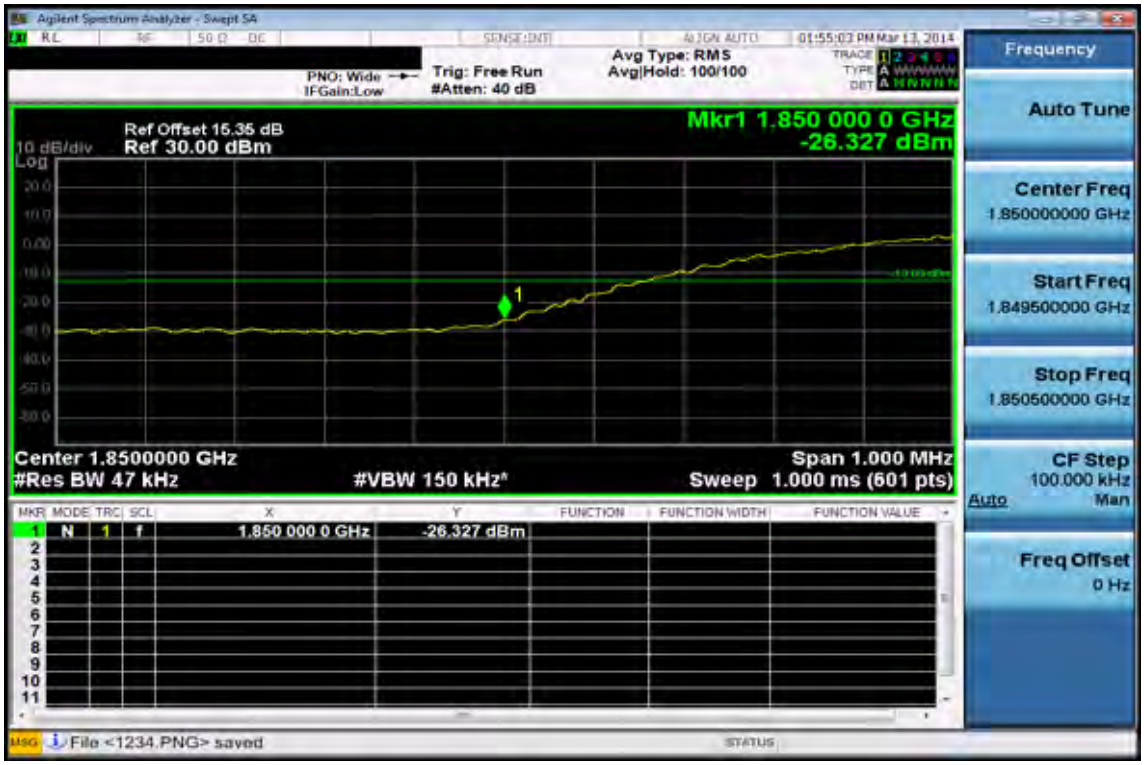

Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest

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Figure 9-36: Out of Band emission at antenna terminals – WCDMA IV Channel Lowest

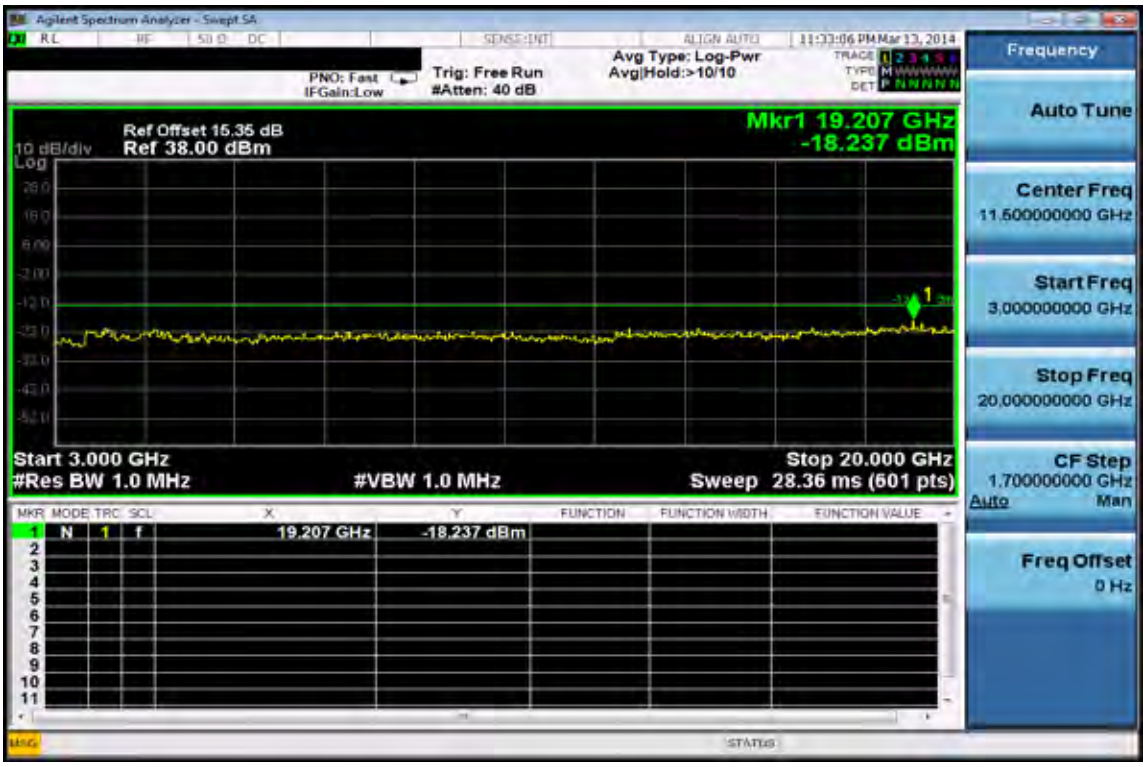

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Figure 9-37: Out of Band emission at antenna terminals – WCDMA IV Channel Mid

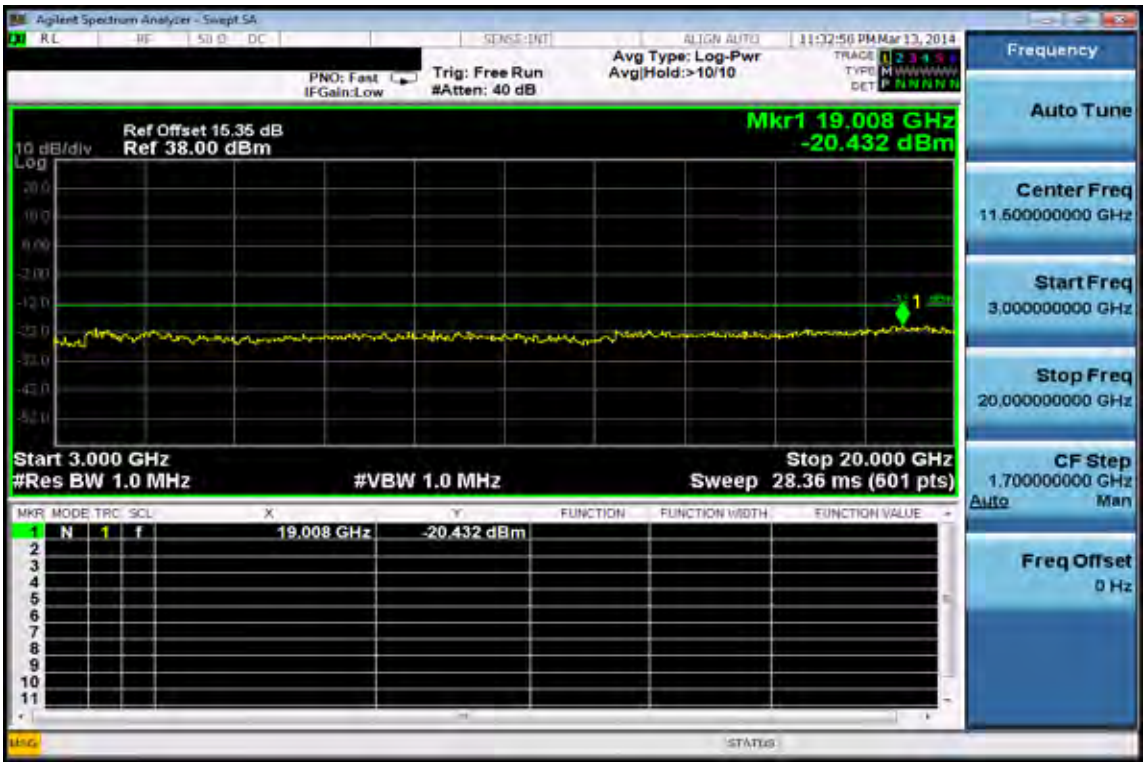

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Figure 9-38: Out of Band emission at antenna terminals – WCDMA IV Channel Highest

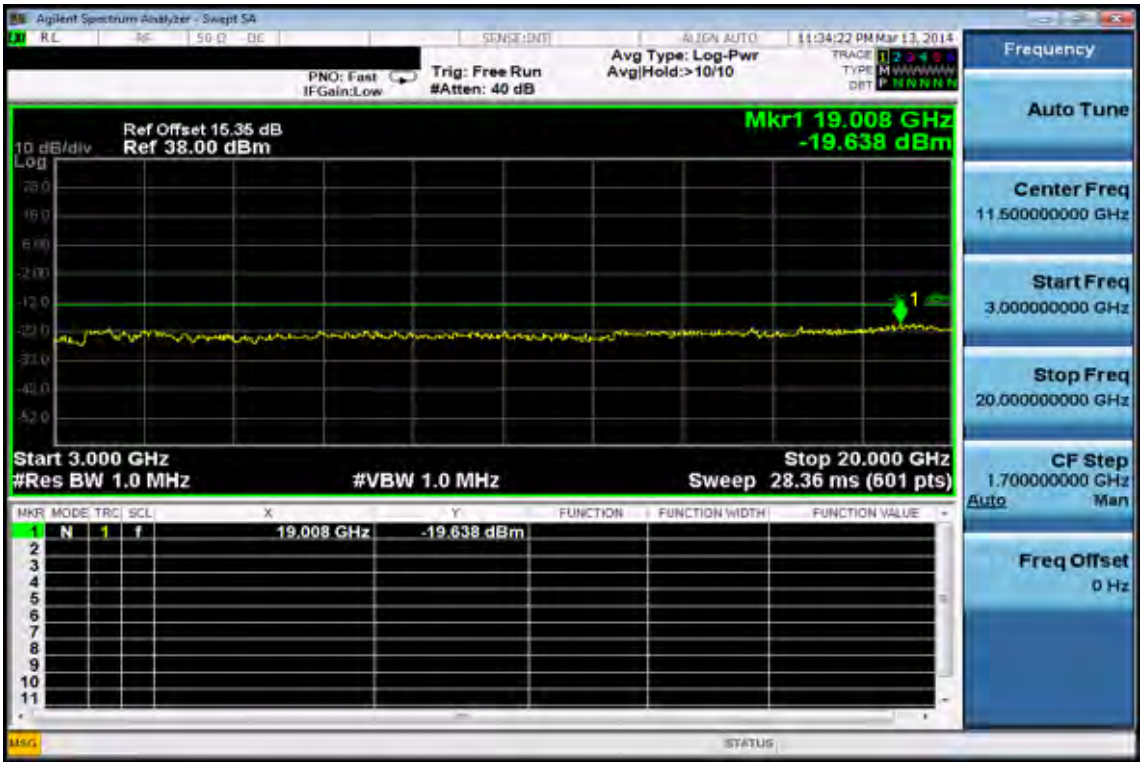

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Figure 9-39: Band edge emission at antenna terminals – WCDMA IV Channel Lowest

Figure 9-40: Band edge emission at antenna terminals – WCDMA IV Channel Highest

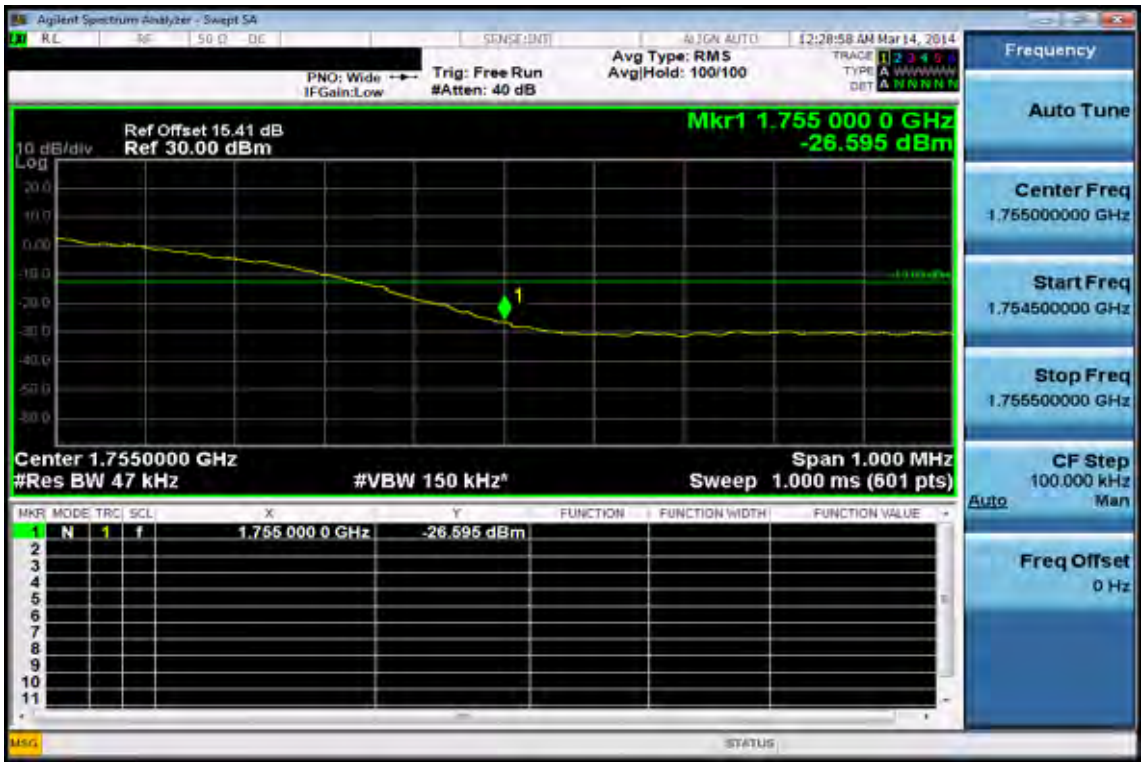

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Figure 9-41: Out of Band emission at antenna terminals – WCDMA V Channel Lowest

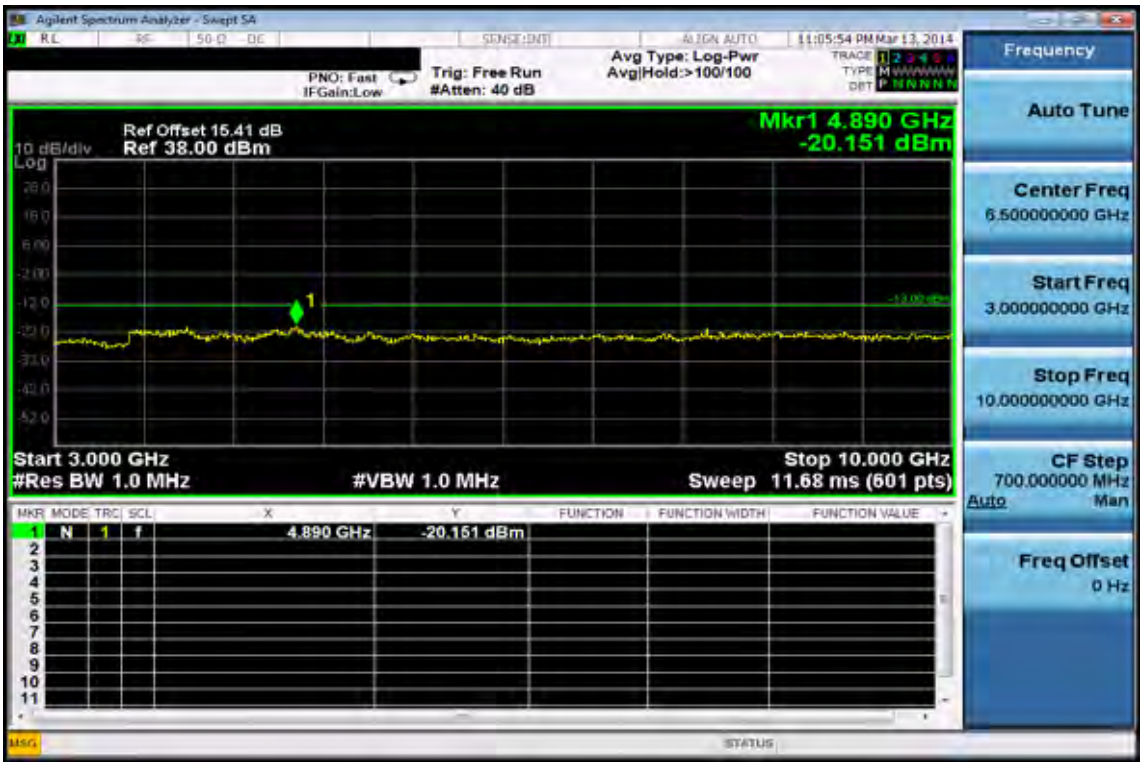

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Figure 9-42: Out of Band emission at antenna terminals – WCDMA V Channel Mid

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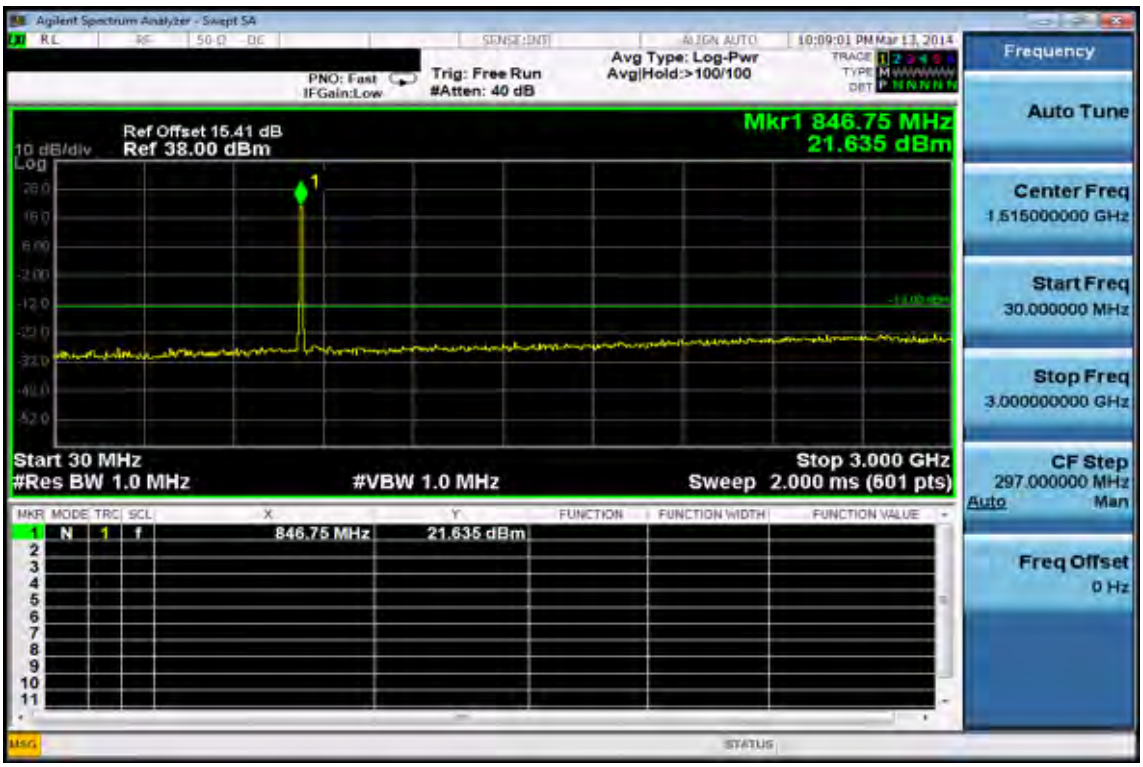
Figure 9-43: Out of Band emission at antenna terminals – WCDMA V Channel Highest



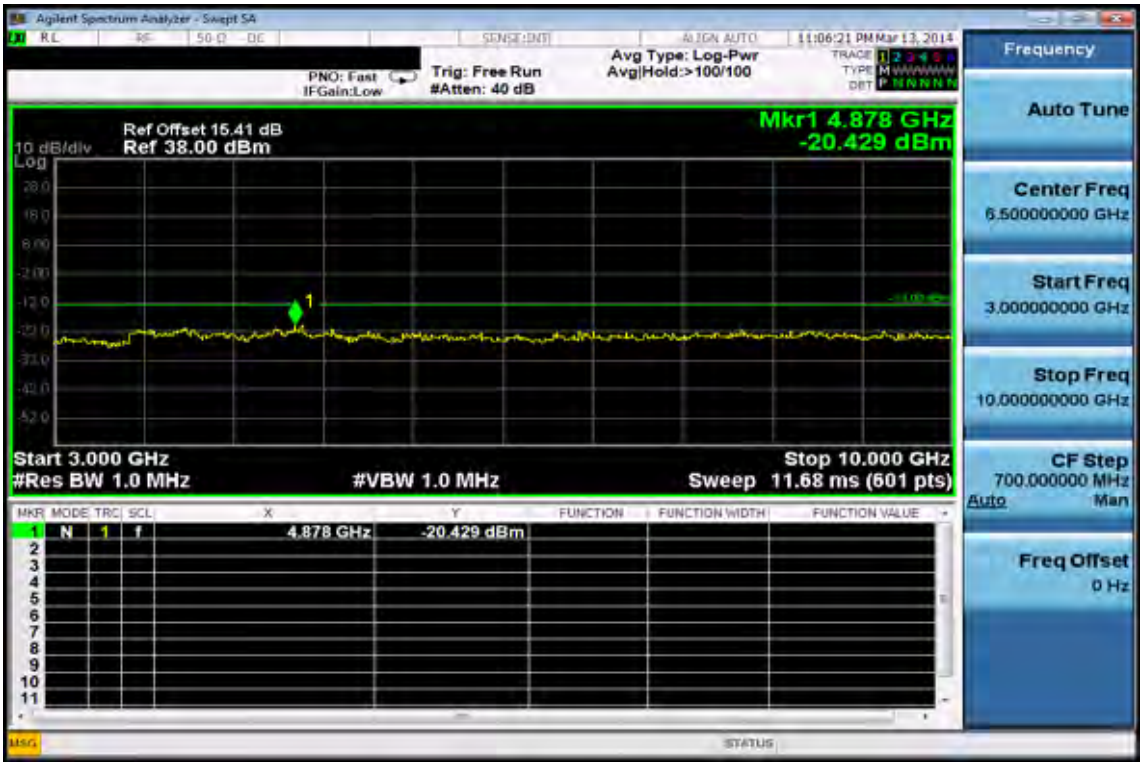


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Figure 9-44: Band edge emission at antenna terminals – WCDMA V Channel Lowest

Figure 9-45: Band edge emission at antenna terminals – WCDMA V Channel Highest

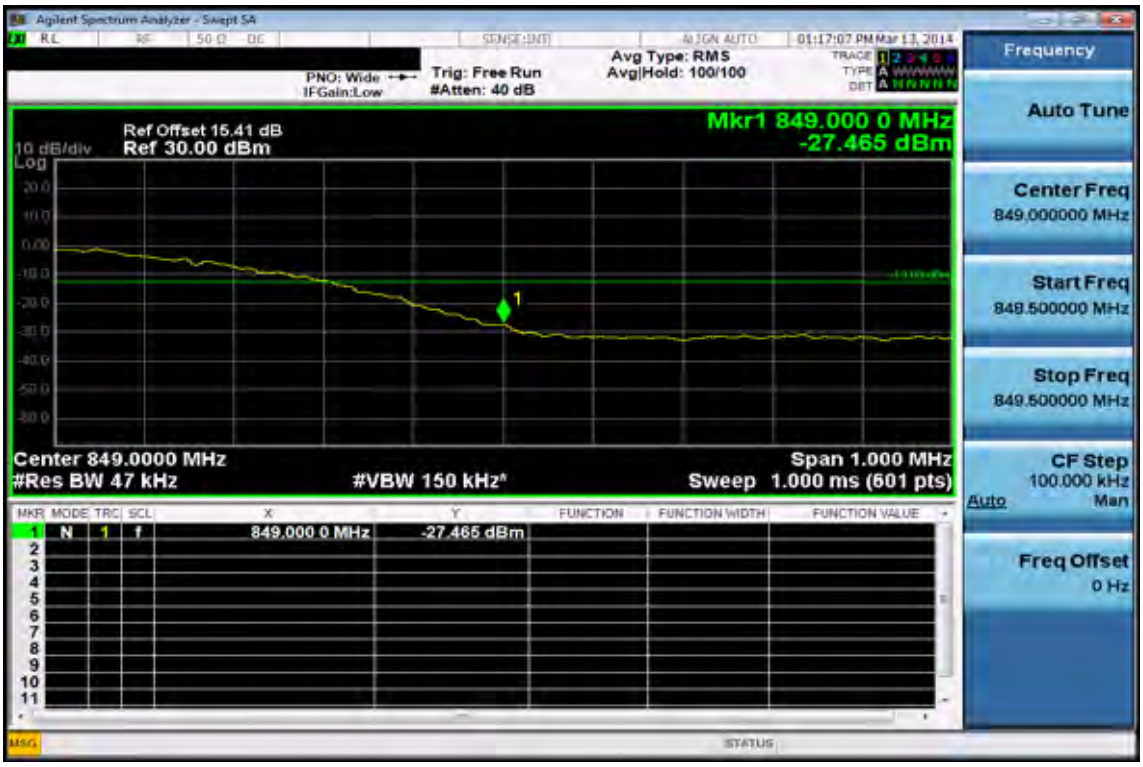

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Figure 9-46: Out of Band emission at antenna terminals – HSDPA II Channel Lowest

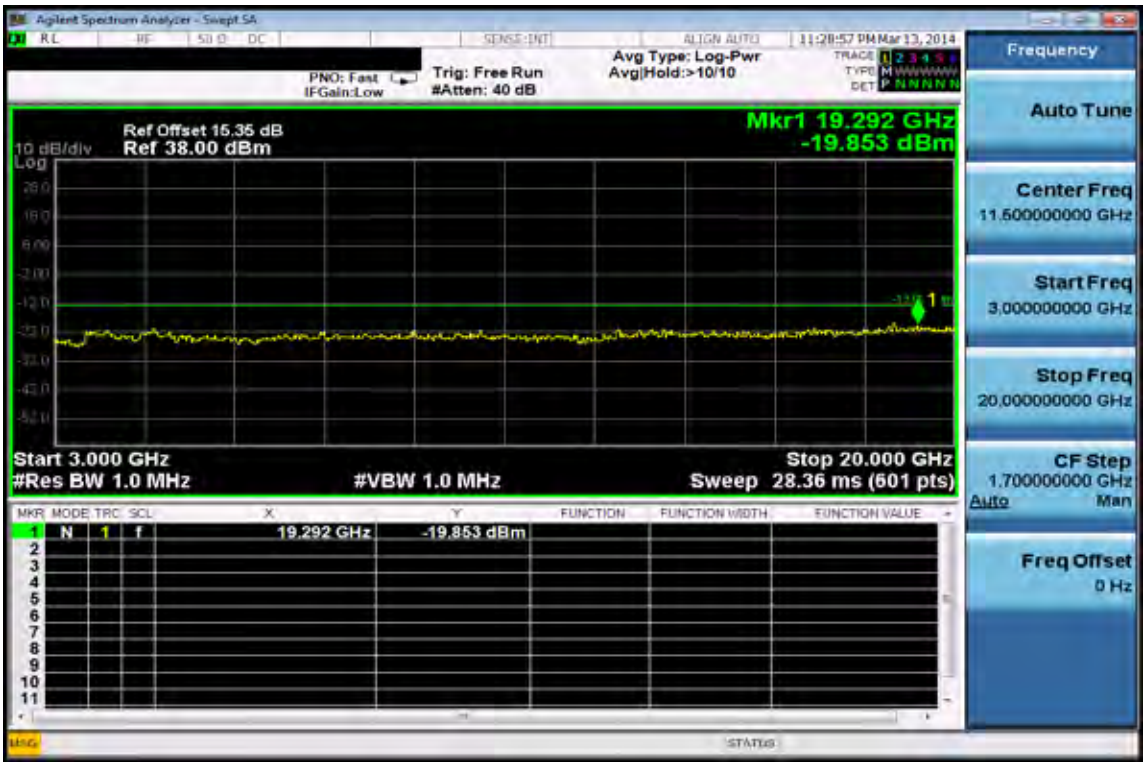

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Figure 9-47: Out of Band emission at antenna terminals – HSDPA II Channel Mid

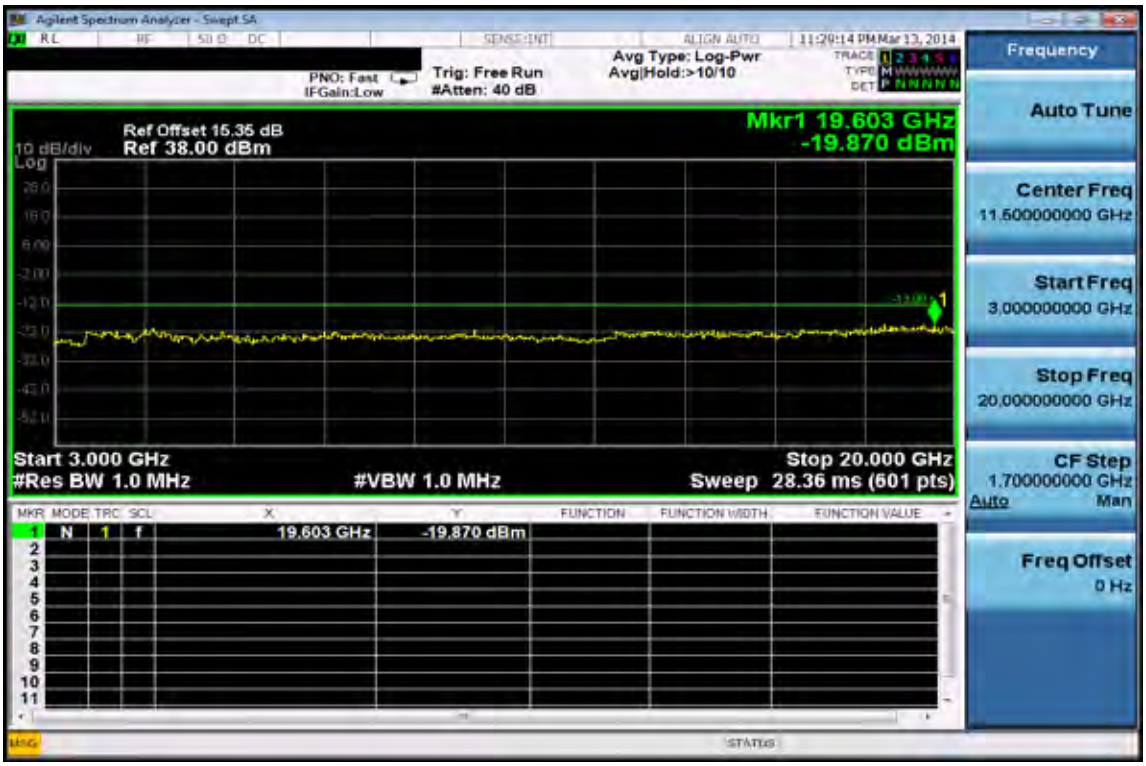

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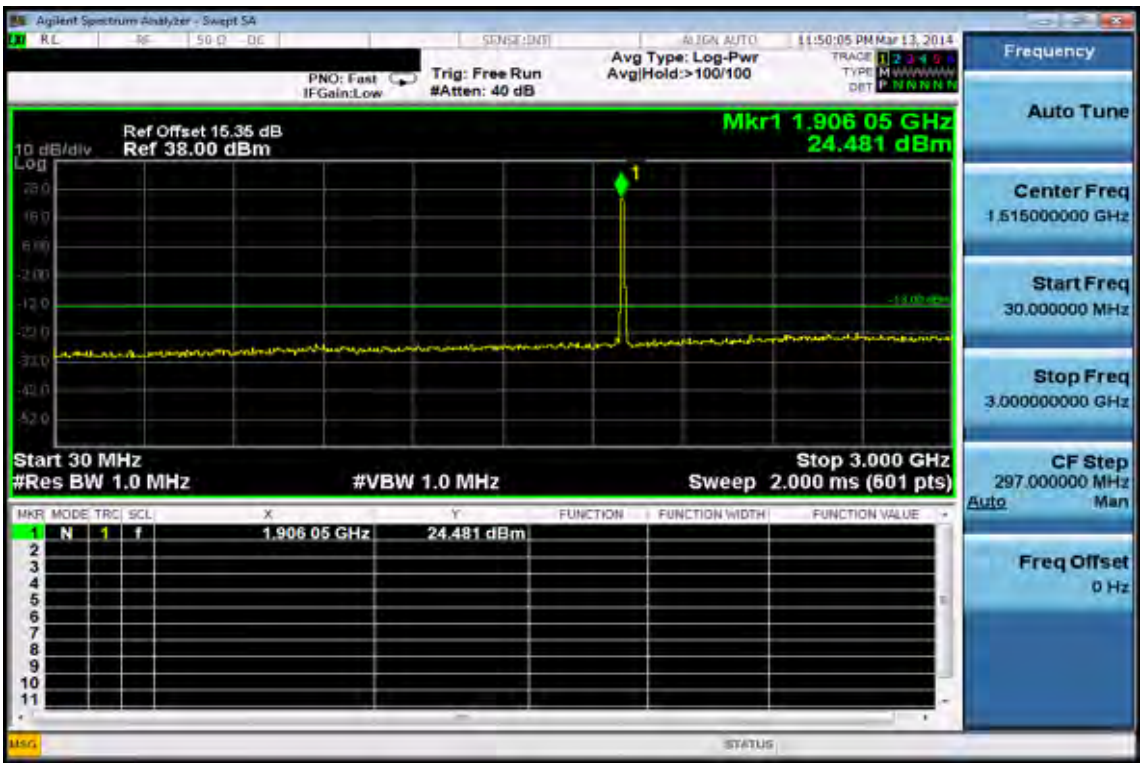
Figure 9-48: Out of Band emission at antenna terminals – HSDPA II Channel Highest



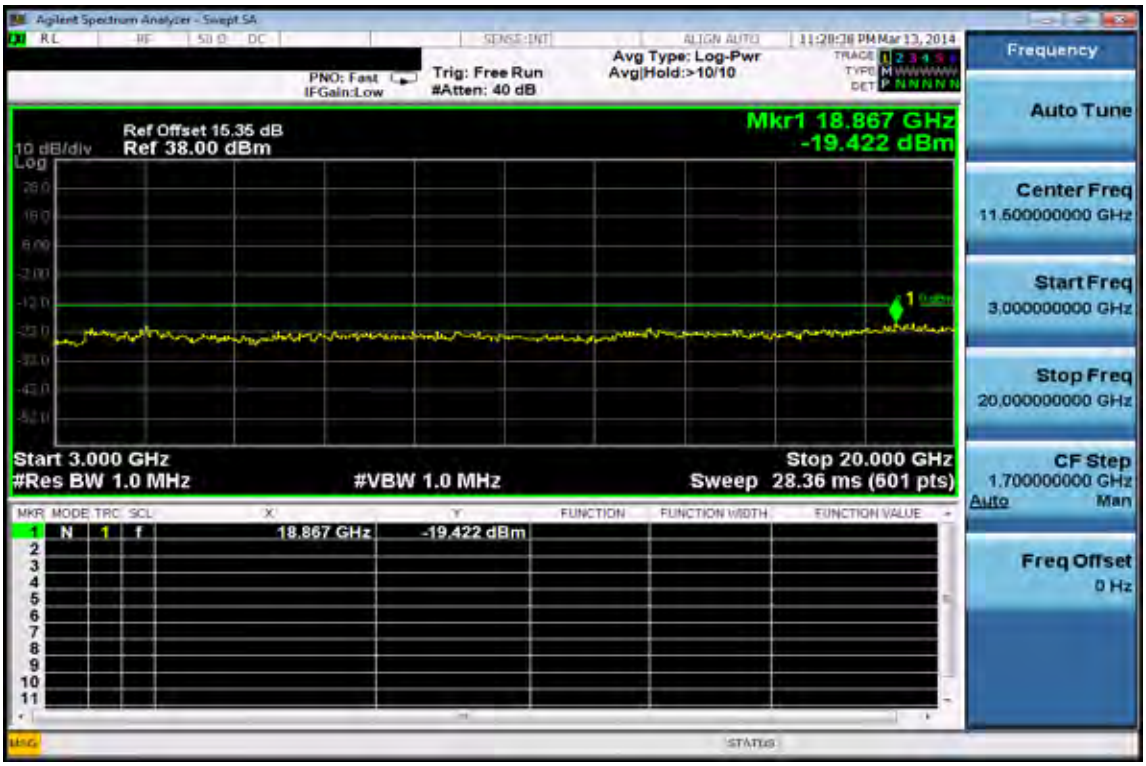


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Figure 9-49: Band edge emission at antenna terminals – HSDPA II Channel Lowest

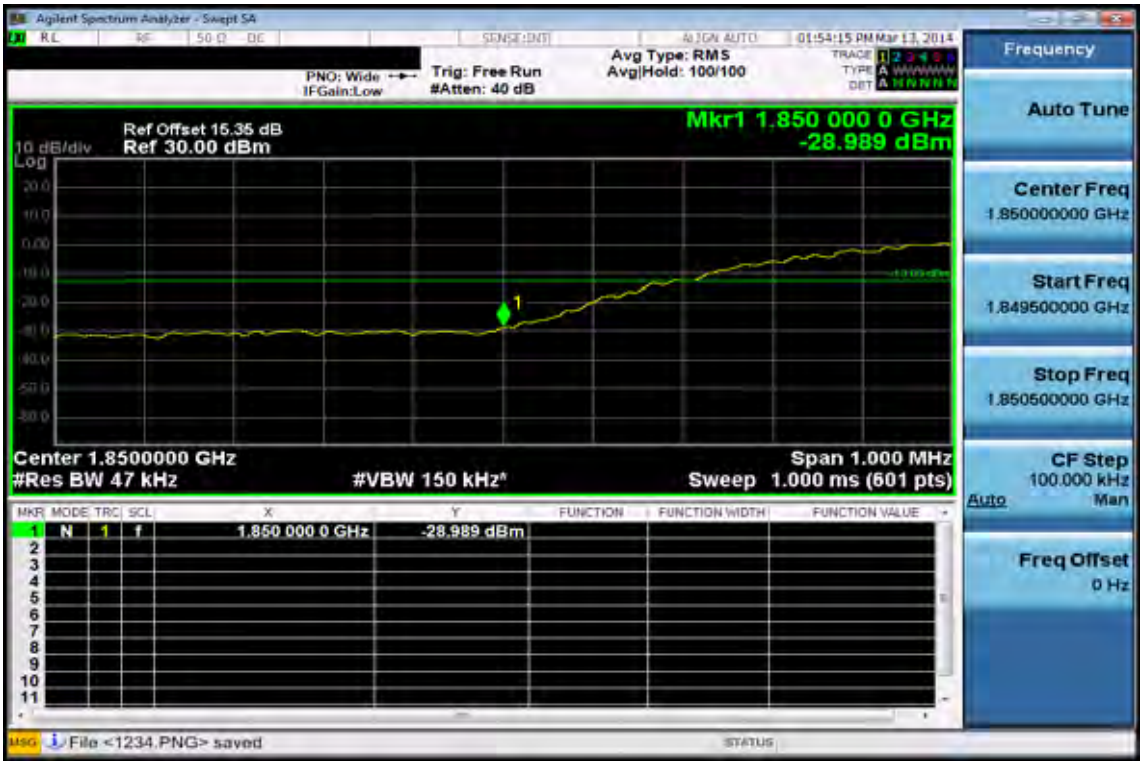

Figure 9-50: Band edge emission at antenna terminals – HSUPA II Channel Highest

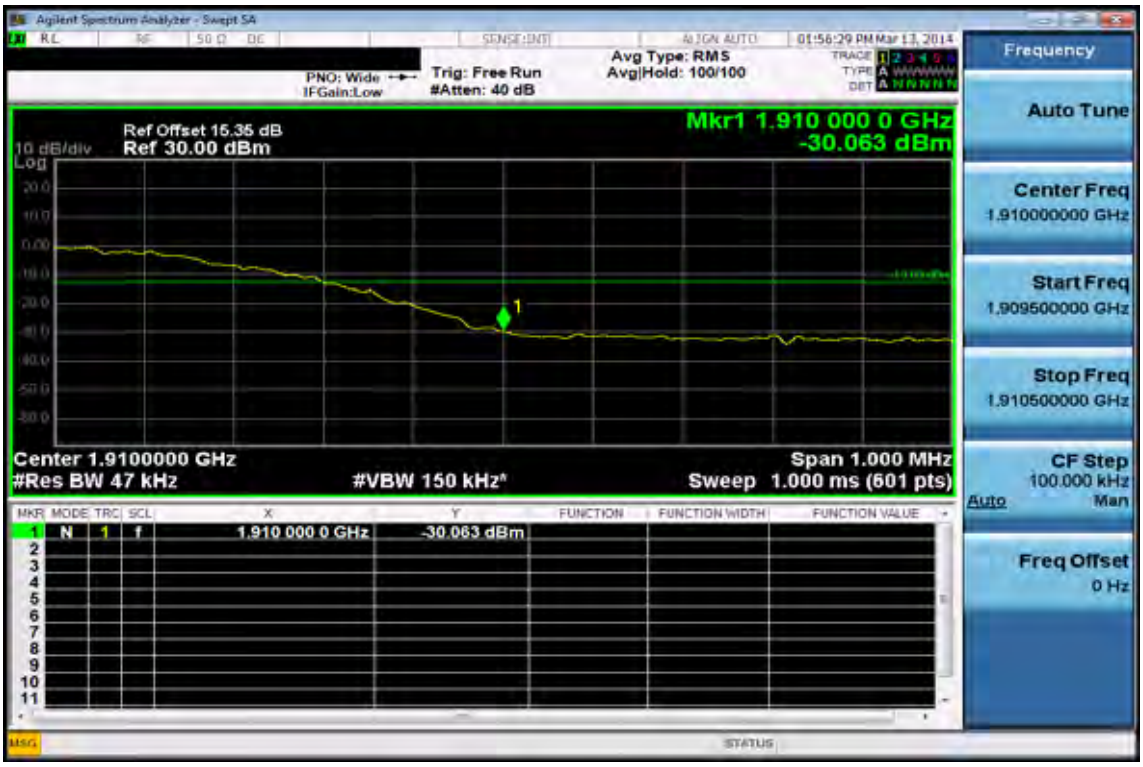

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Figure 9-51: Out of Band emission at antenna terminals – HSDPA IV Channel Lowest

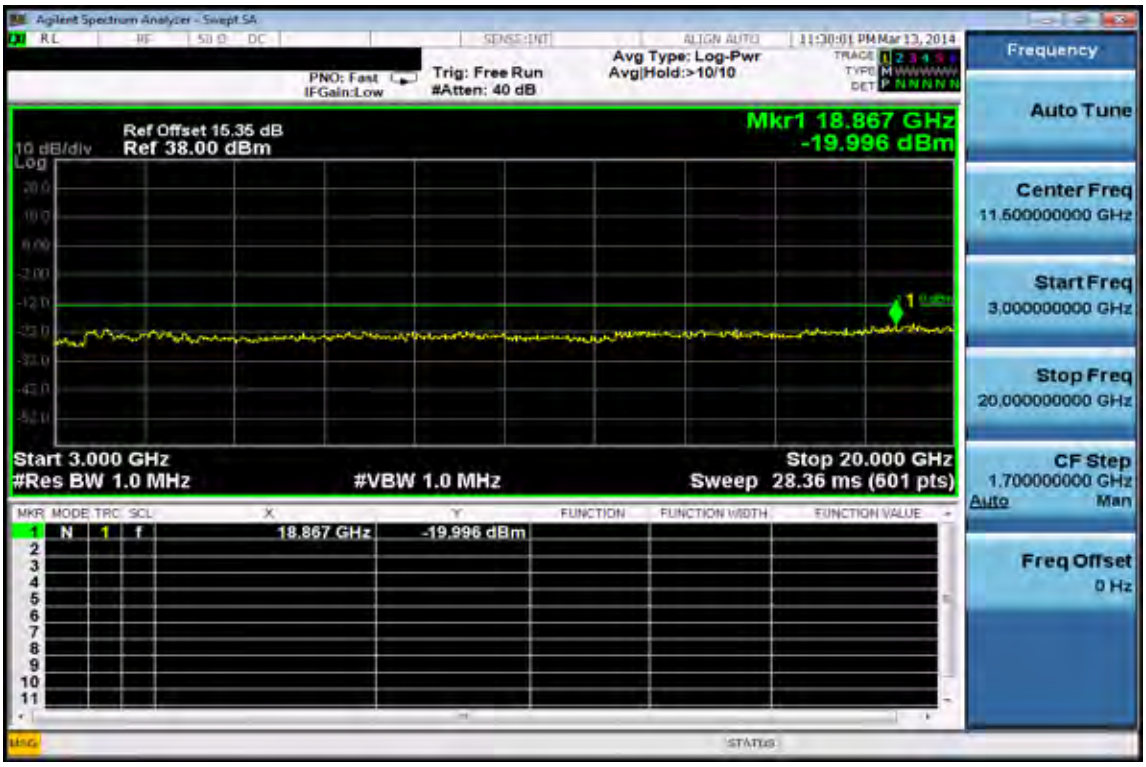

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Figure 9-52: Out of Band emission at antenna terminals –HSDPA IV Channel Mid

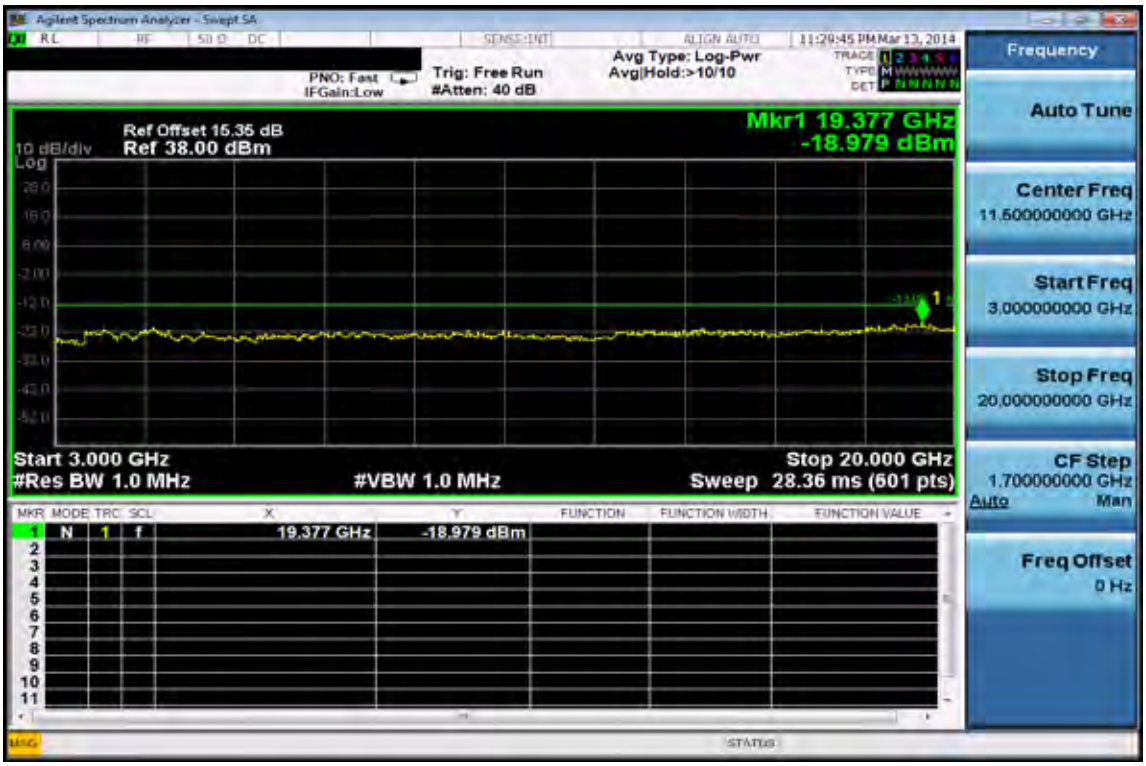

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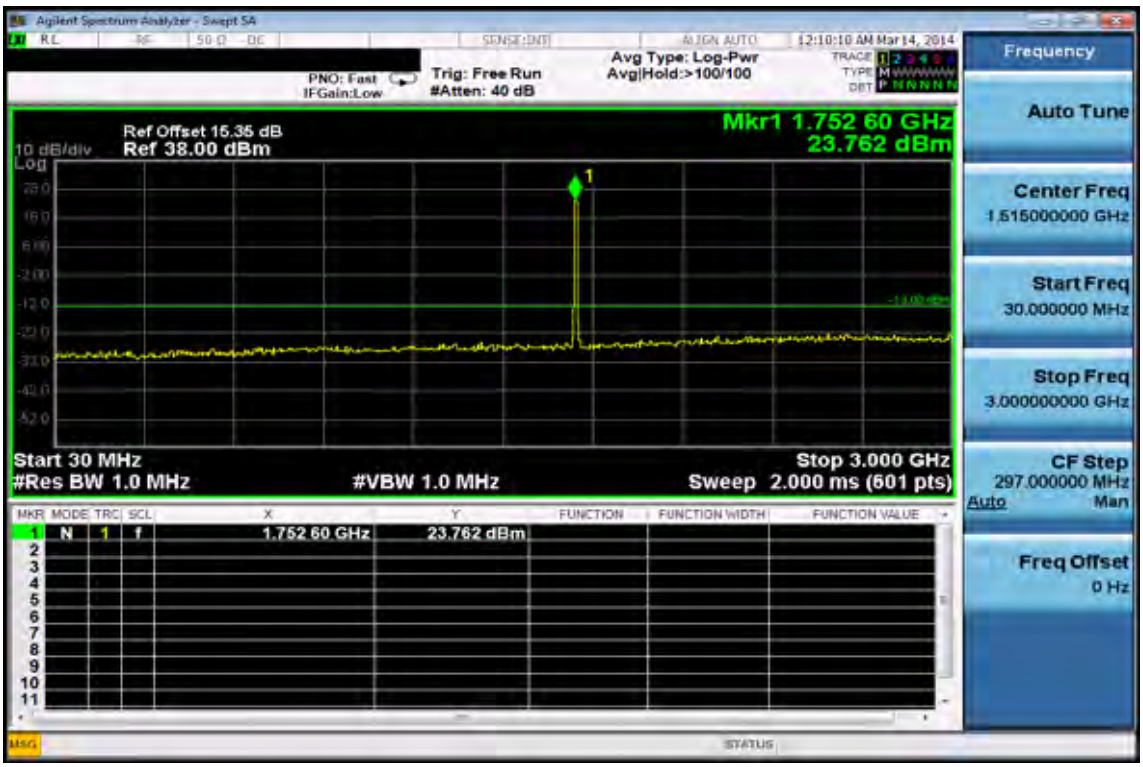
Figure 9-53: Out of Band emission at antenna terminals –HSDPA IV Channel Highest



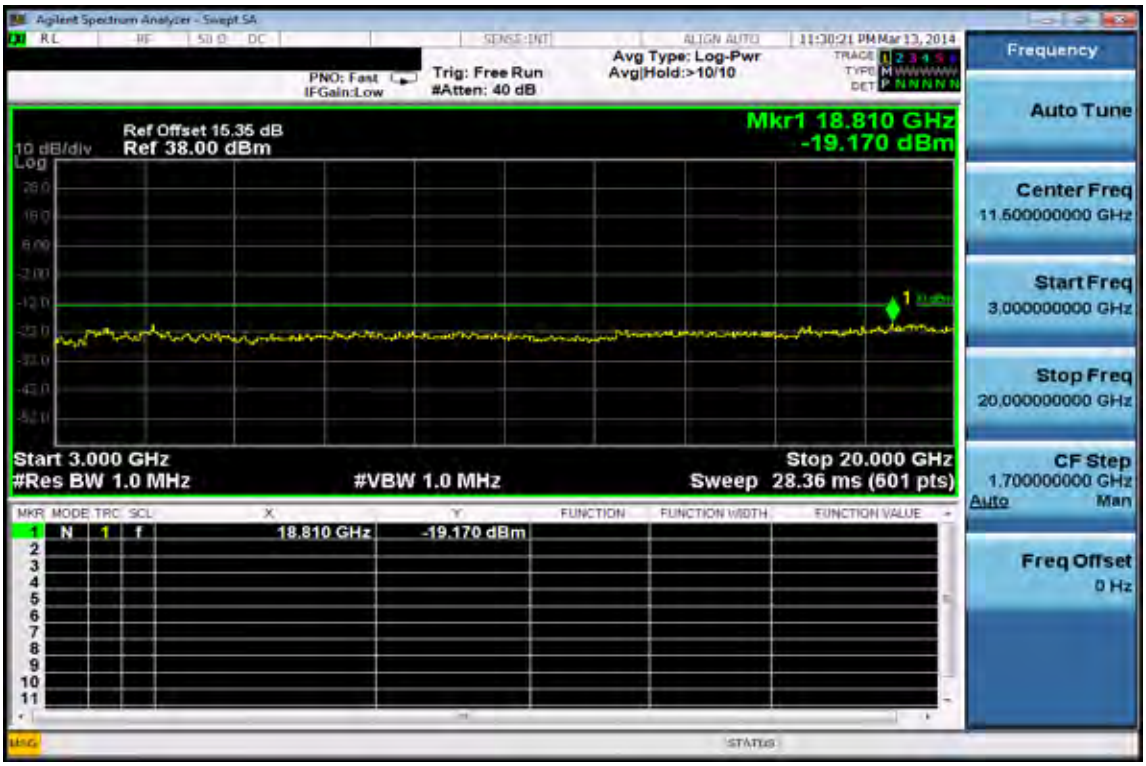


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Figure 9-54: Band edge emission at antenna terminals –HSDPA IV Channel Lowest

Figure 9-55: Band edge emission at antenna terminals –HSDPA IV Channel Highest

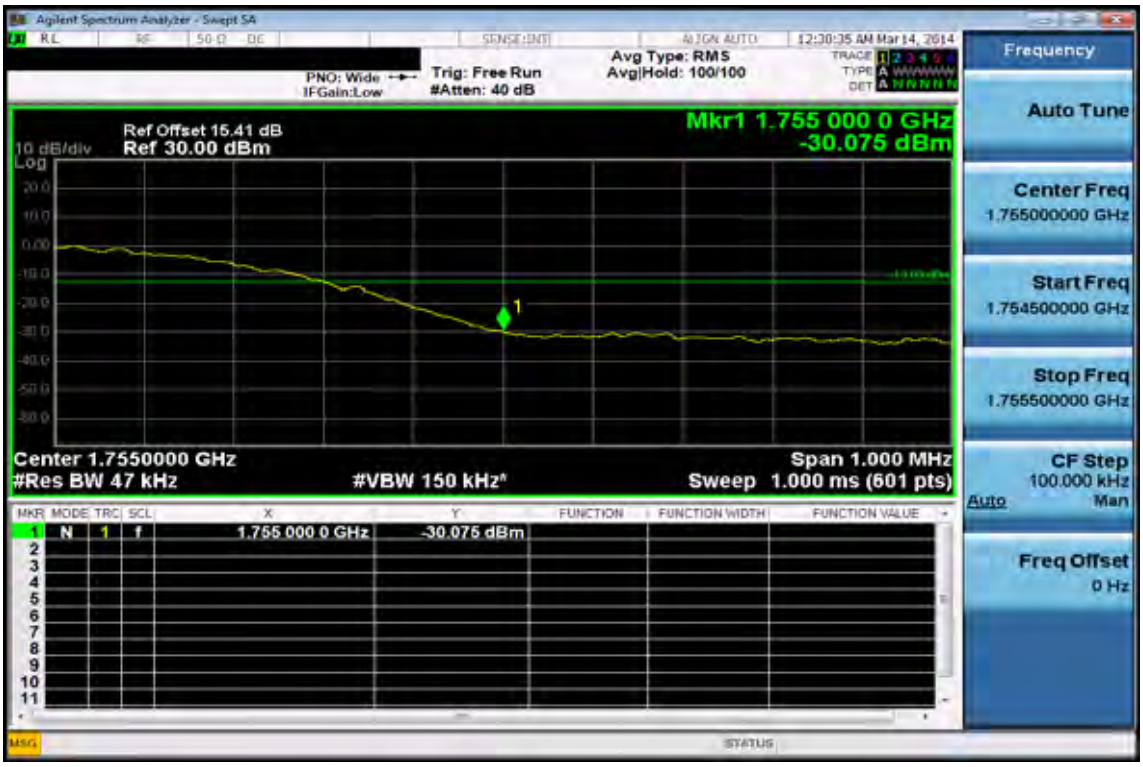

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Figure 9-56: Out of Band emission at antenna terminals – HSDPA V Channel Lowest

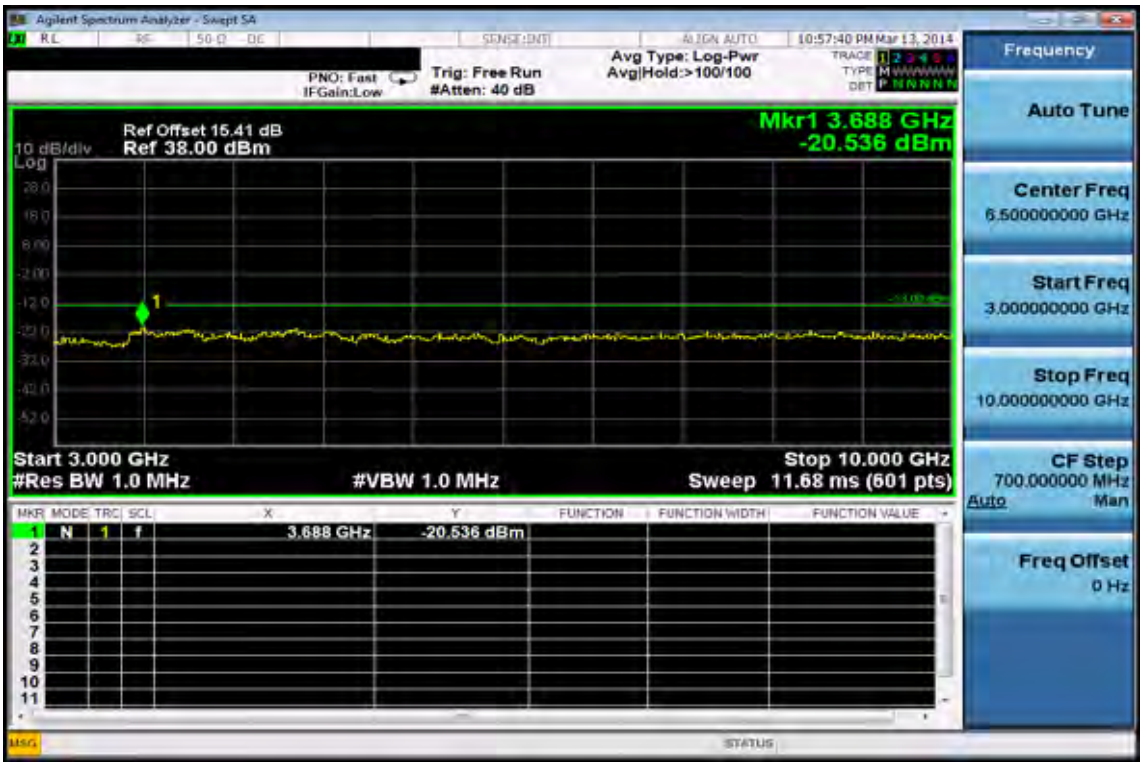

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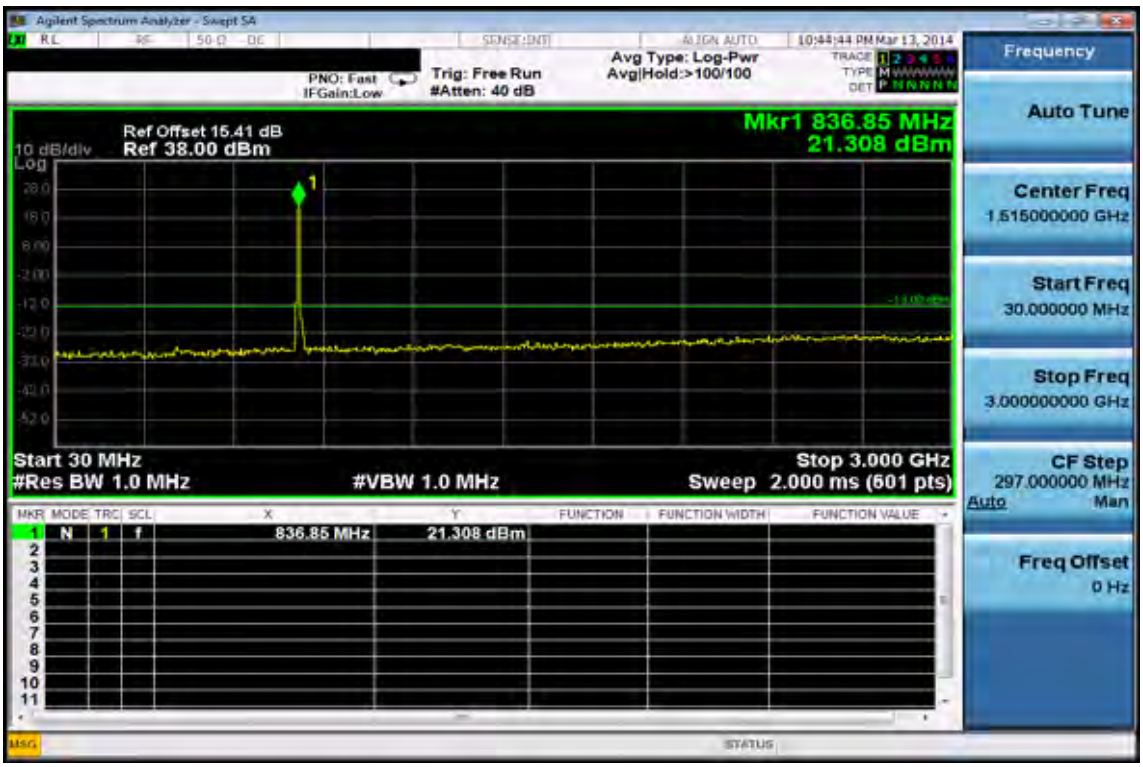
Figure 9-57: Out of Band emission at antenna terminals – HSDPA V Channel Mid



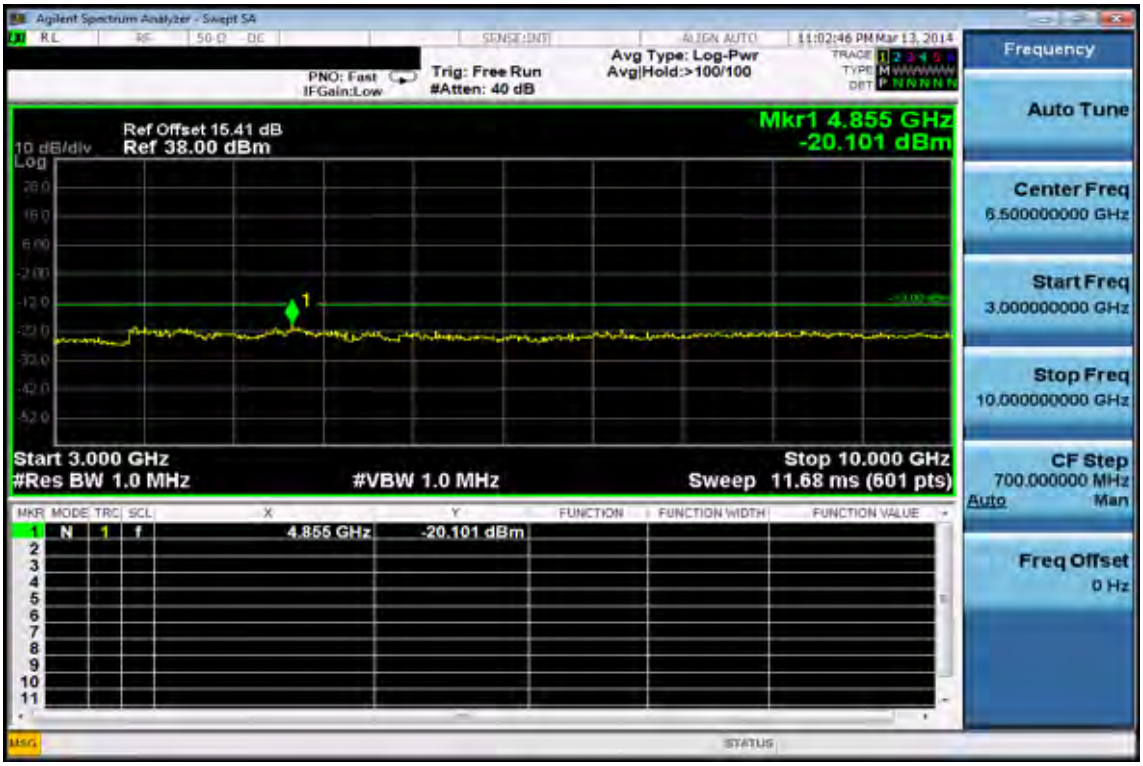


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Figure 9-58: Out of Band emission at antenna terminals – HSDPA V Channel Highest

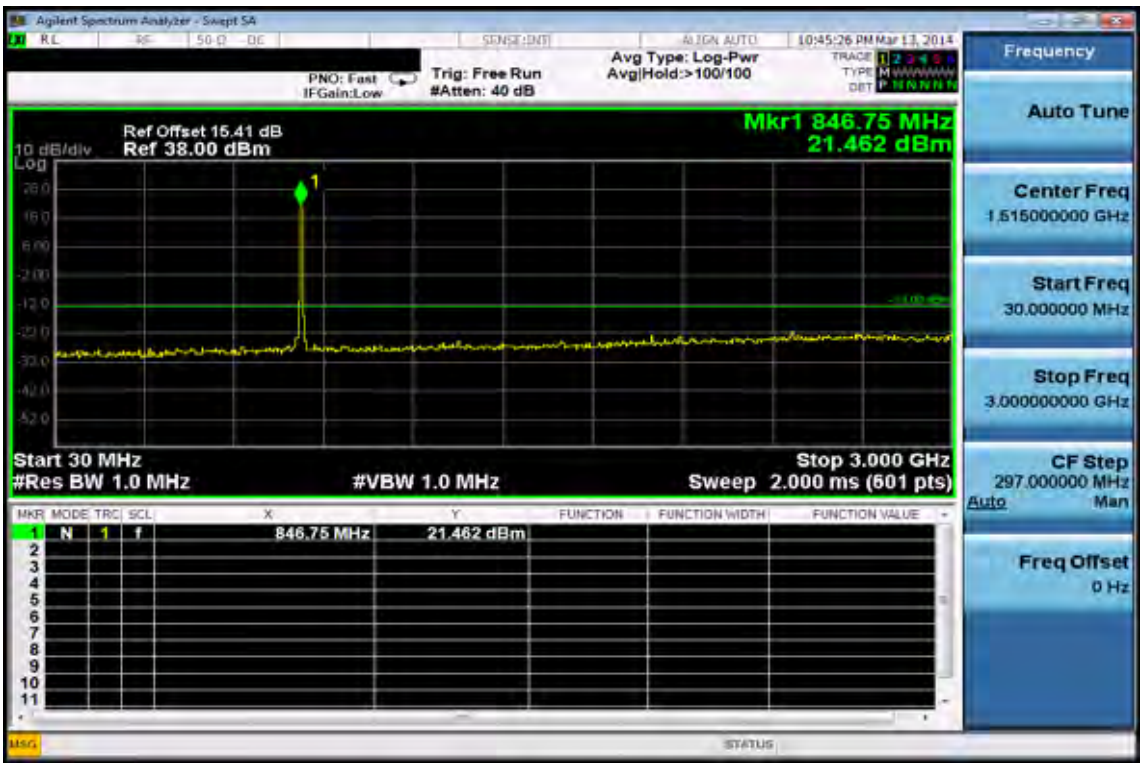

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Figure 9-59: Band edge emission at antenna terminals – HSDPA V Channel Lowest

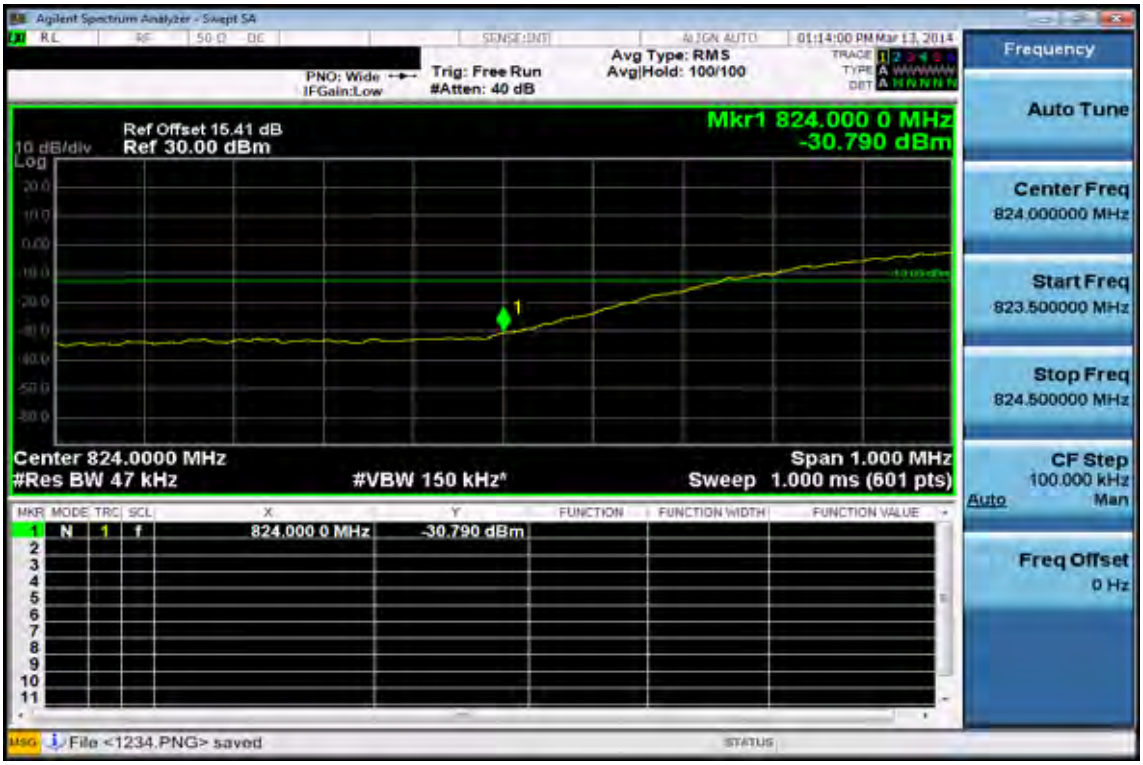

Figure 9-60: Band edge emission at antenna terminals – HSDPA V Channel Highest

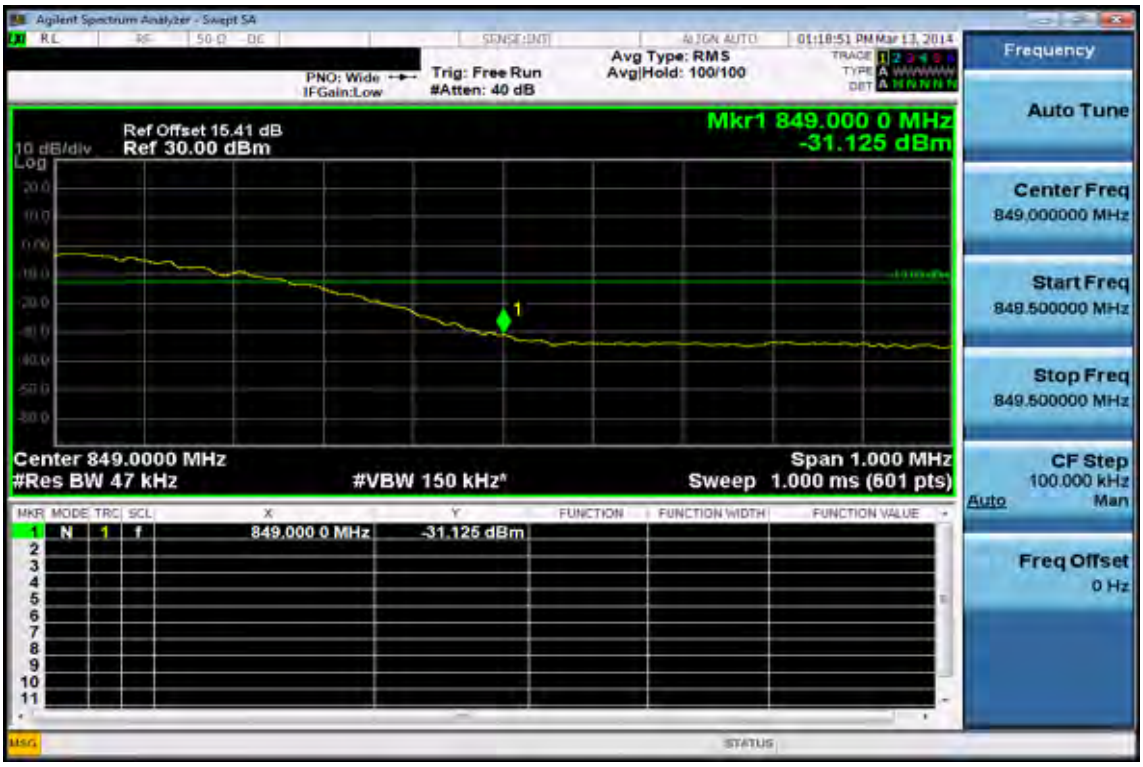

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Figure 9-61: Out of Band emission at antenna terminals – HSUPA II Channel Lowest

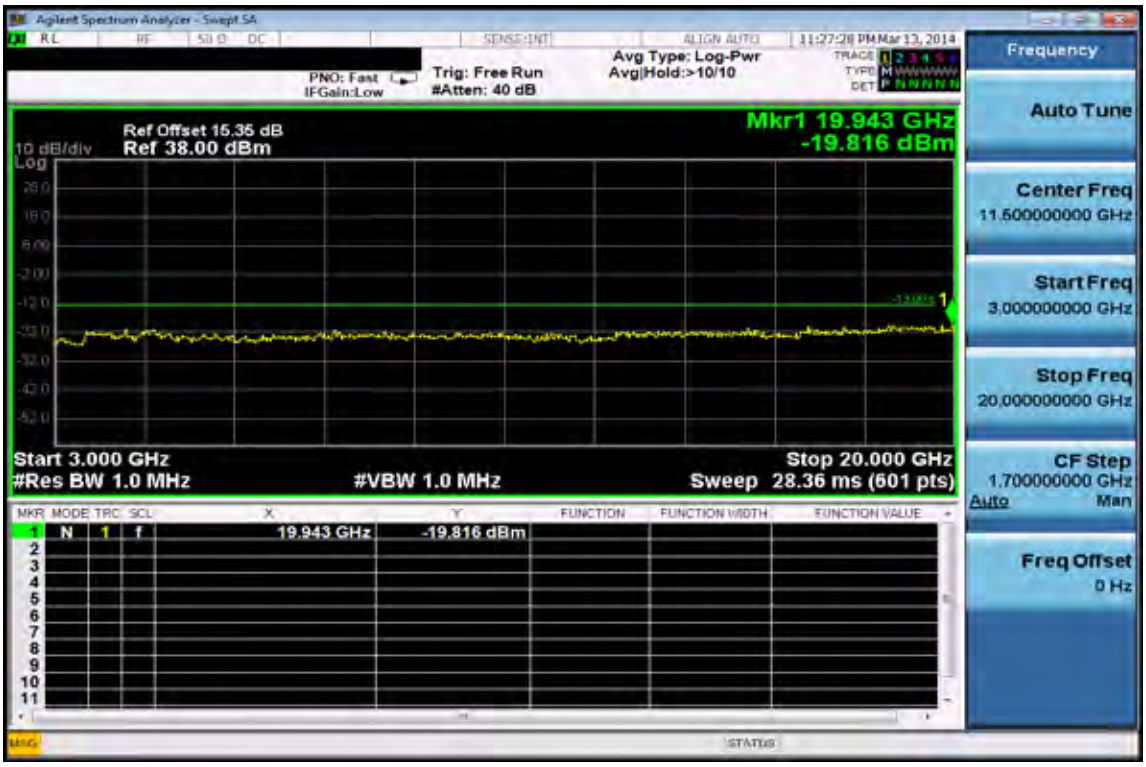

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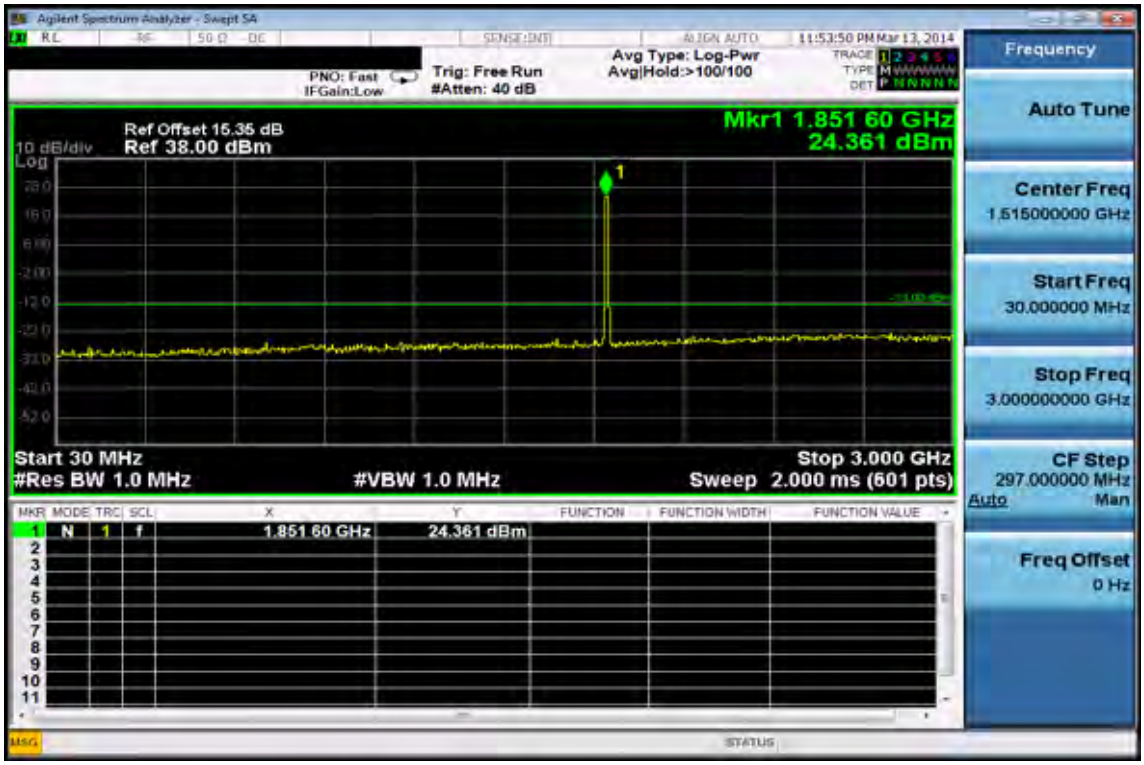
Figure 9-62: Out of Band emission at antenna terminals – HSUPA II Channel Mid



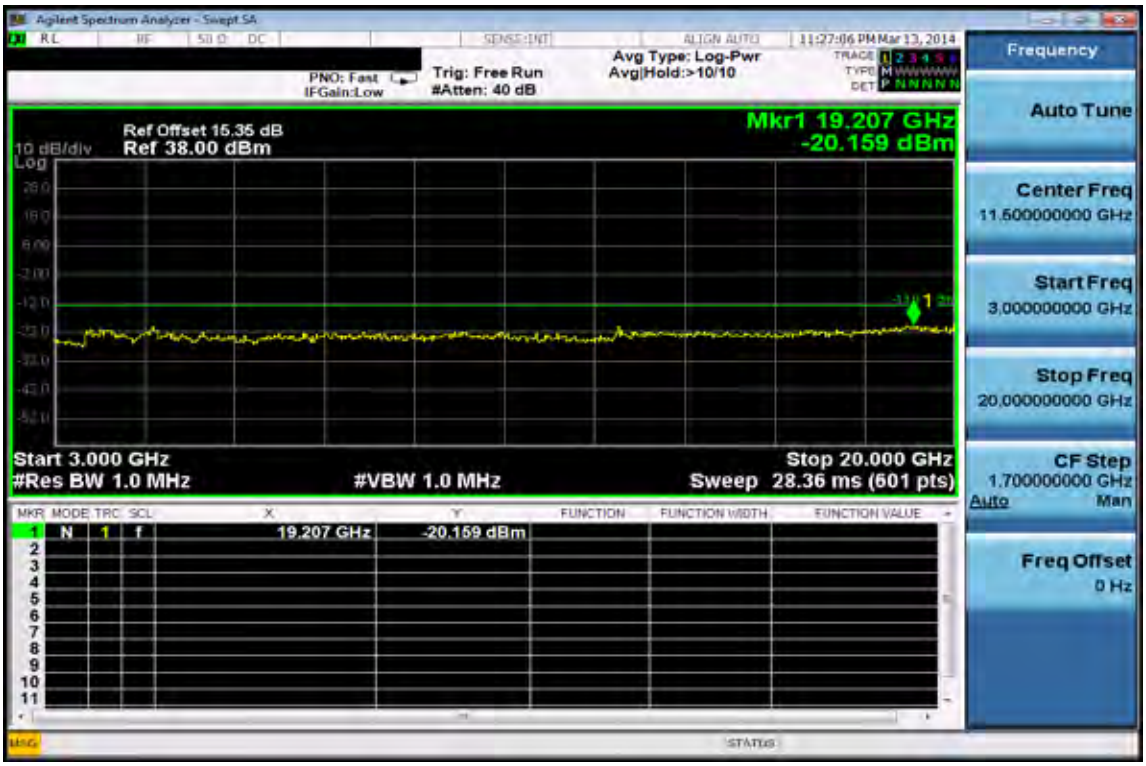


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Figure 9-63: Out of Band emission at antenna terminals – HSUPA II Channel Highest

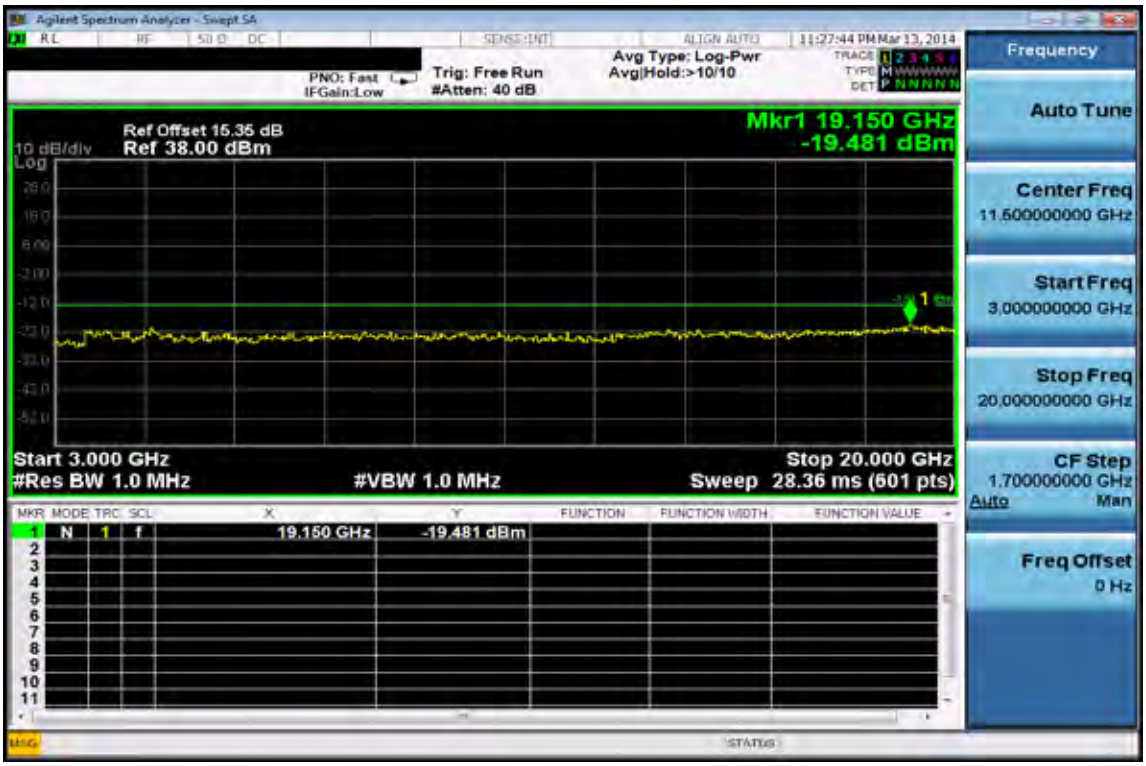

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Figure 9-64: Band edge emission at antenna terminals – HSUPA II Channel Lowest

Figure 9-65: Band edge emission at antenna terminals – HSUPA II Channel Highest

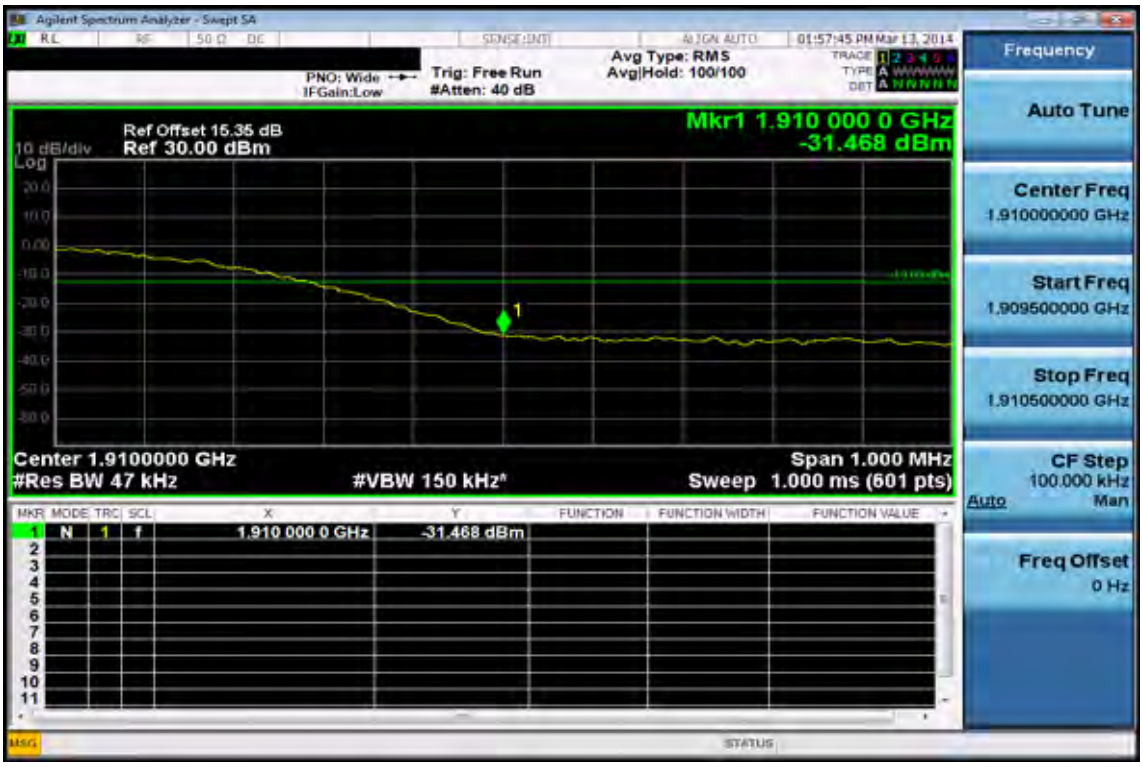

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Figure 9-66: Out of Band emission at antenna terminals –HSUPA IV Channel Lowest

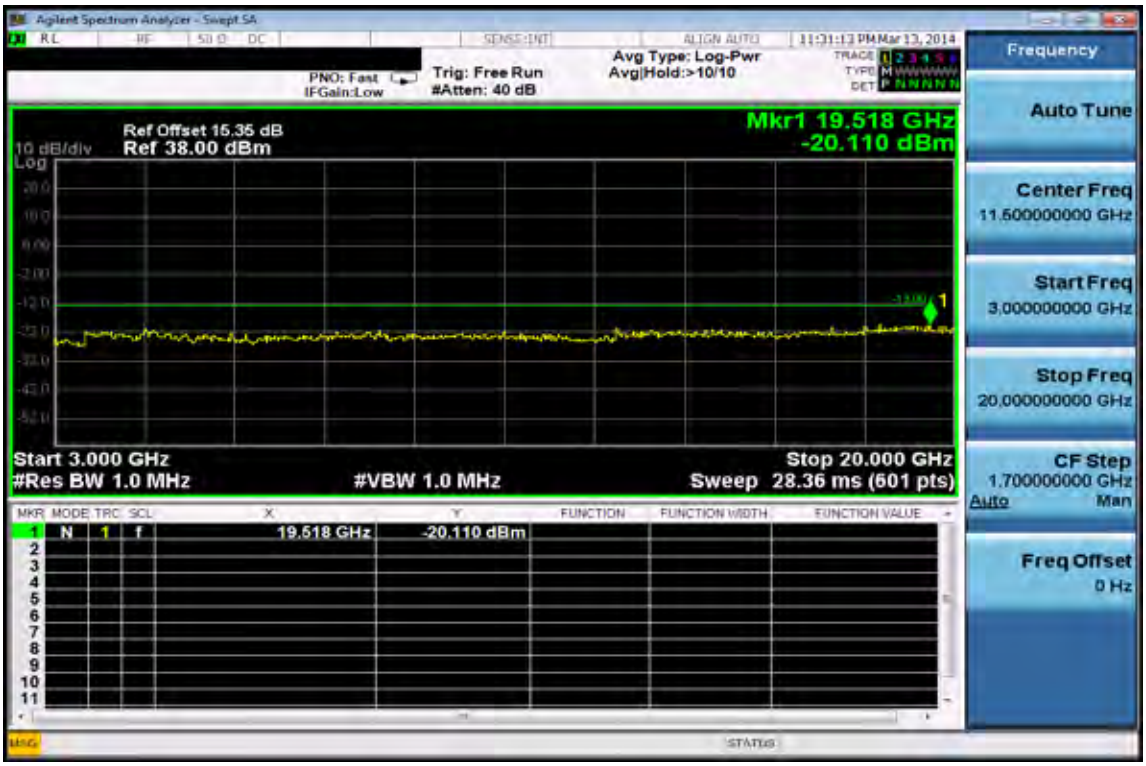

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Figure 9-67: Out of Band emission at antenna terminals –HSUPA IV Channel Mid

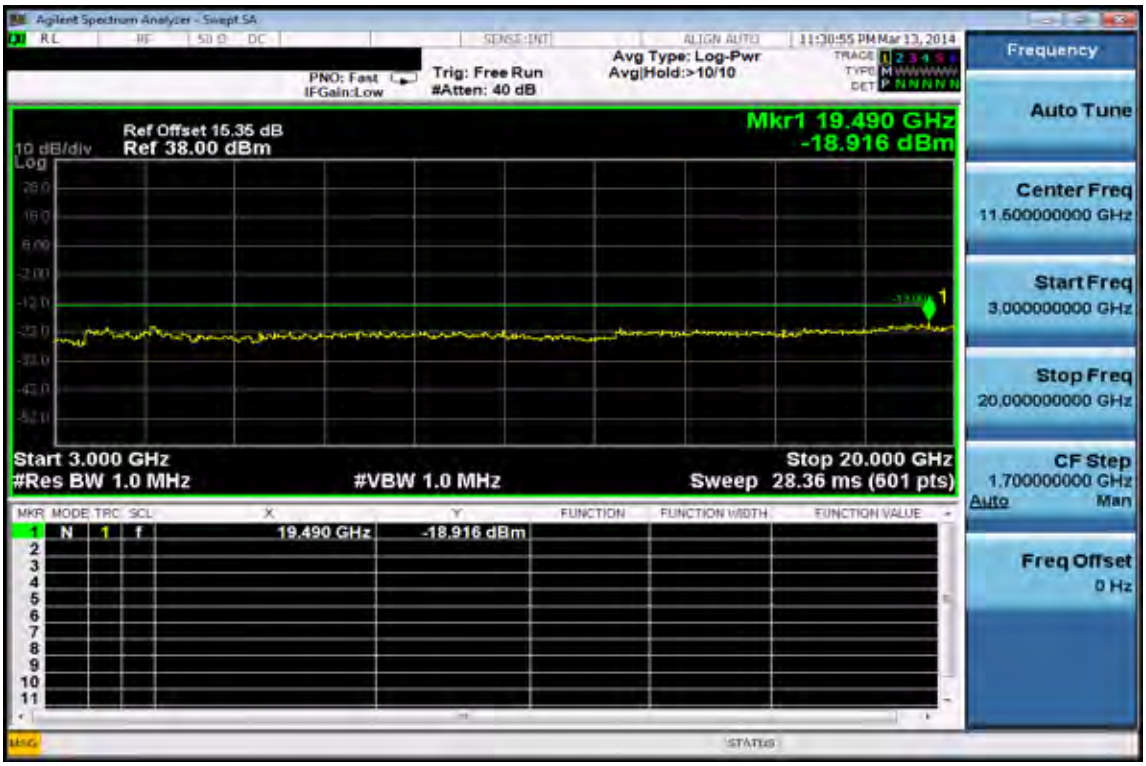

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Figure 9-68: Out of Band emission at antenna terminals –HSUPA IV Channel Highest

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Figure 9-69: Band edge emission at antenna terminals –HSUPA IV Channel Lowest

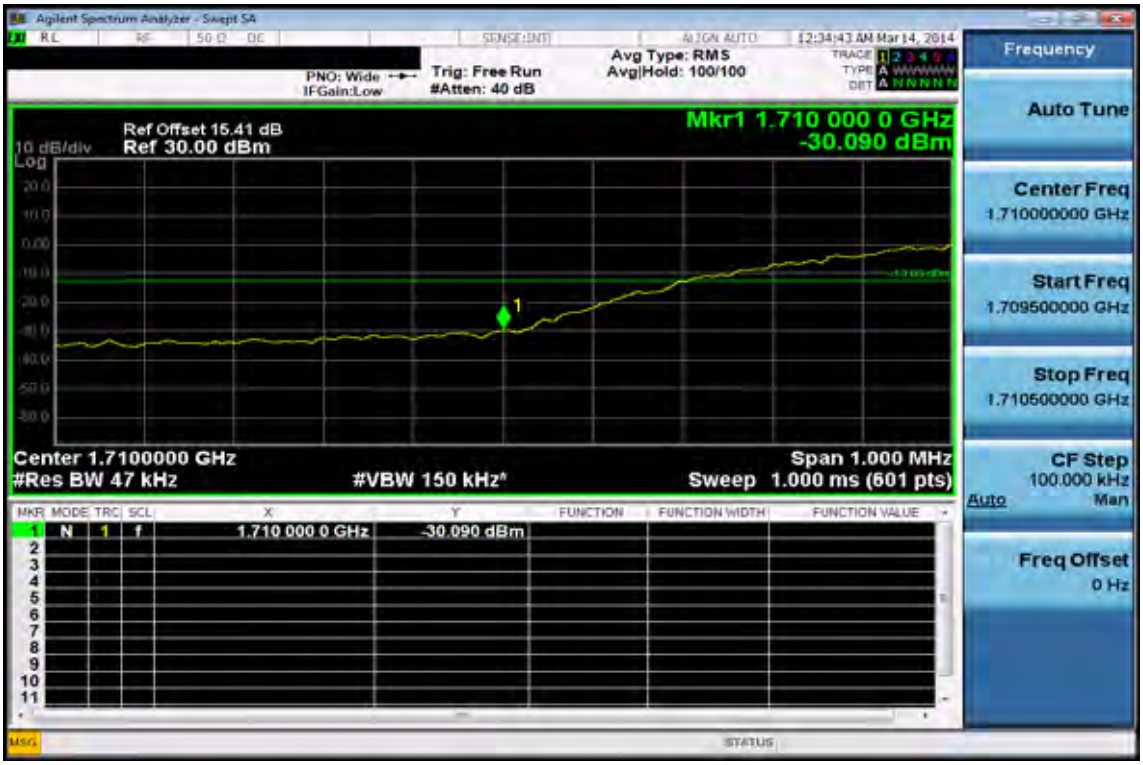

Figure 9-70: Band edge emission at antenna terminals –HSUPA IV Channel Highest

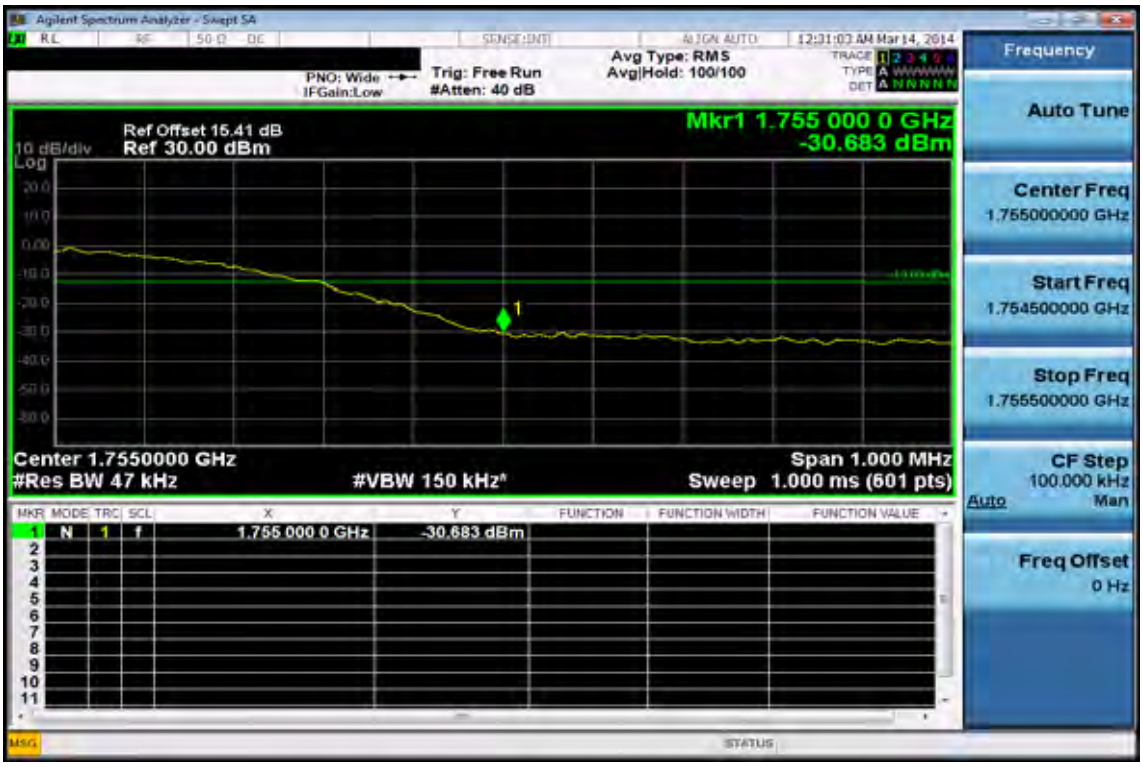

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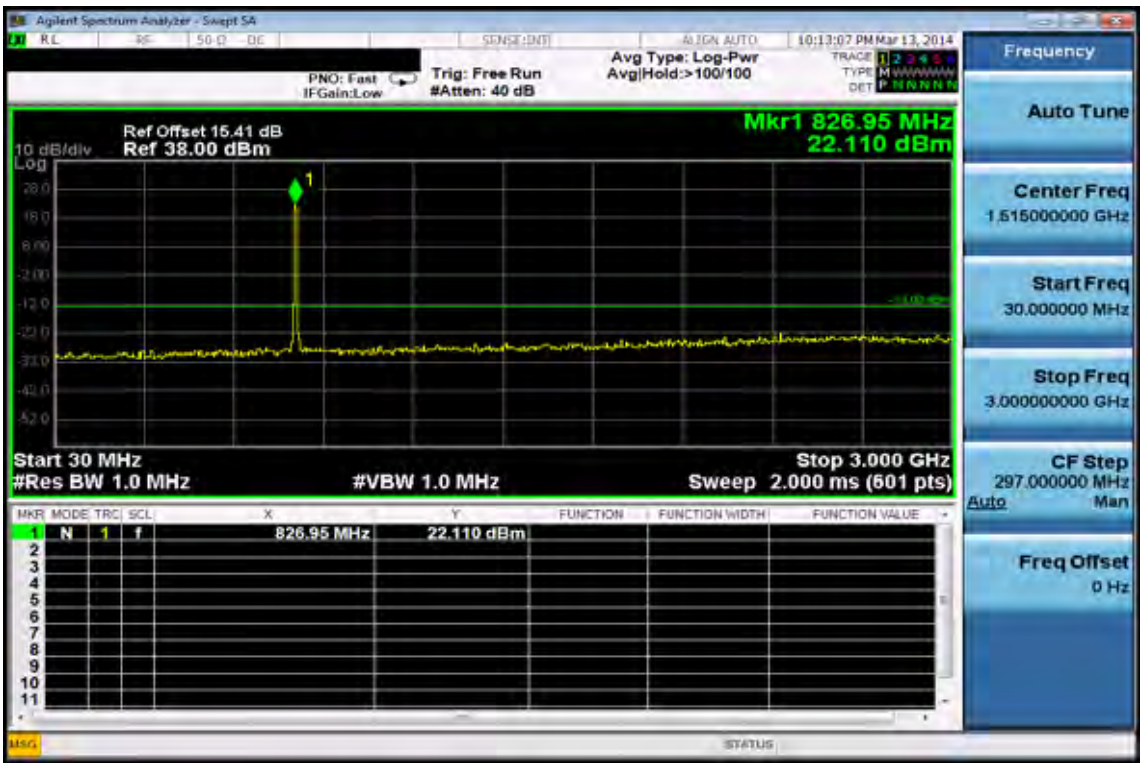
Figure 9-71: Out of Band emission at antenna terminals – HSUPA V Channel Lowest



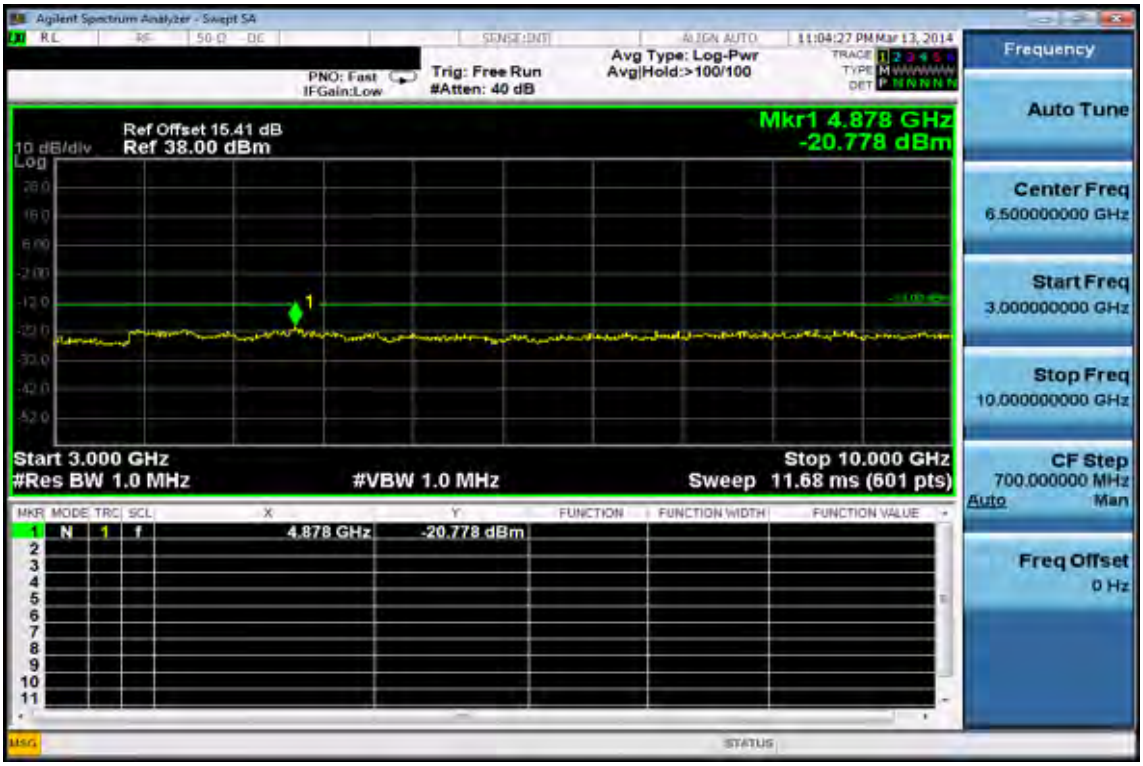


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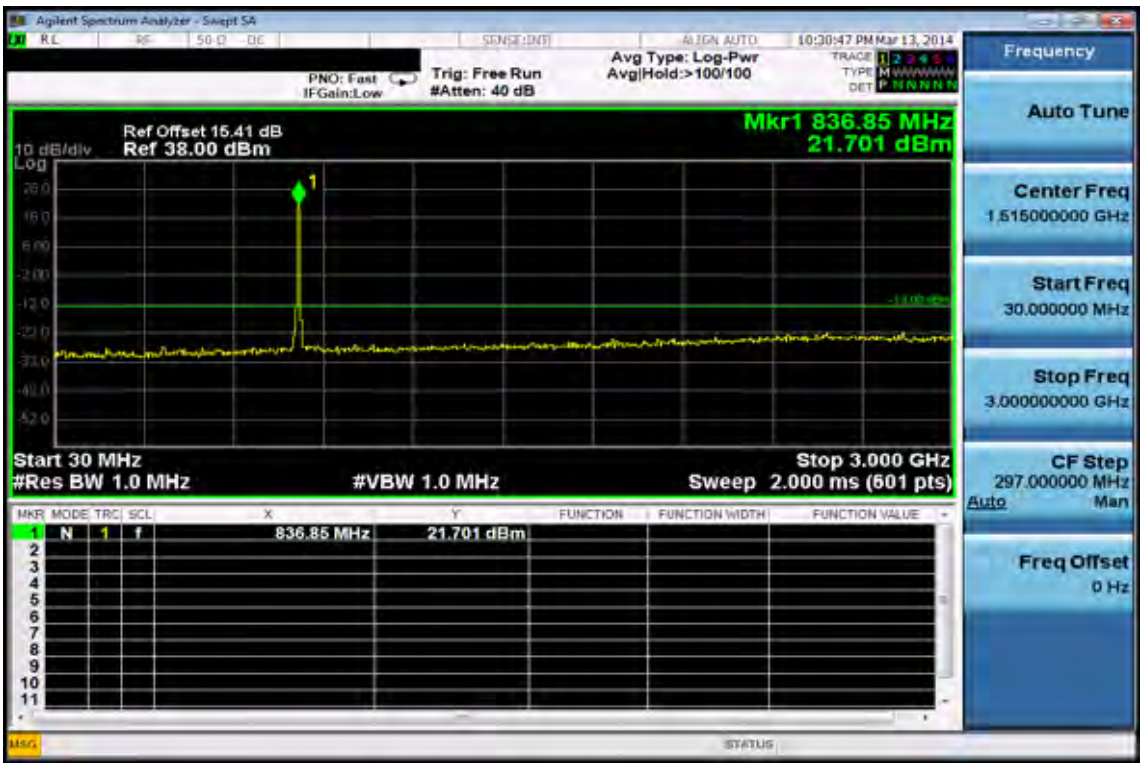
Figure 9-72: Out of Band emission at antenna terminals – HSUPA V Channel Mid



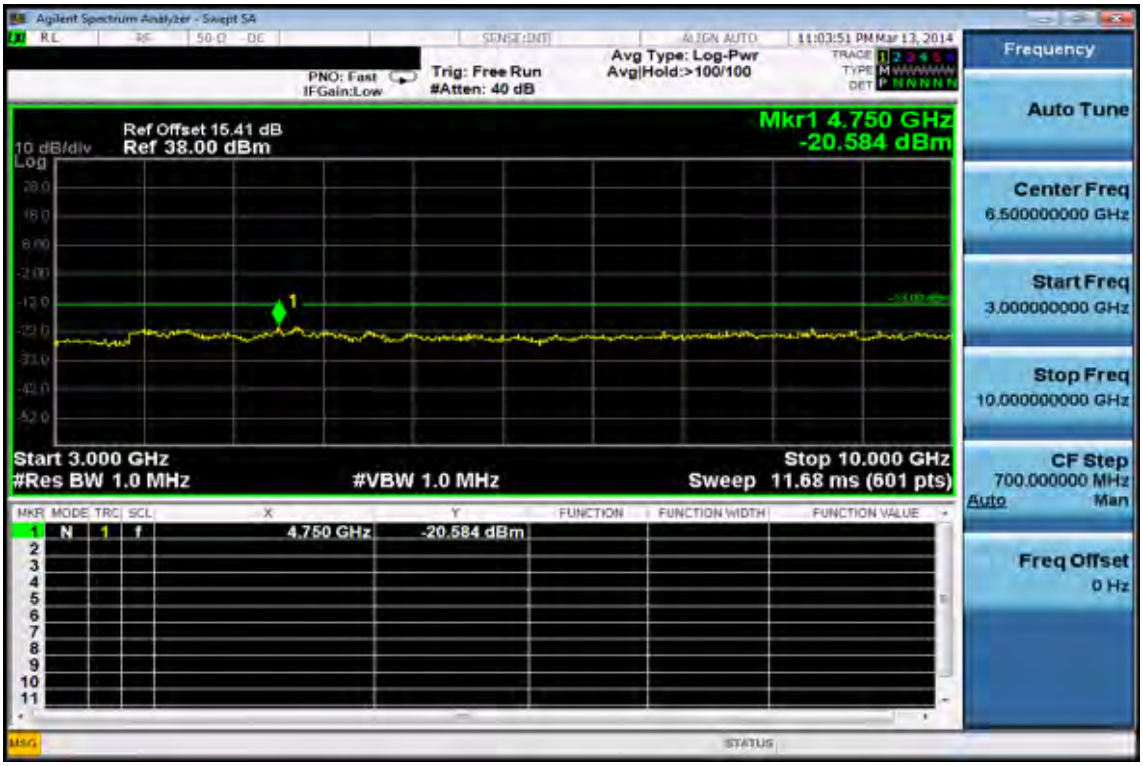


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Figure 9-73: Out of Band emission at antenna terminals – HSUPA V Channel Highest

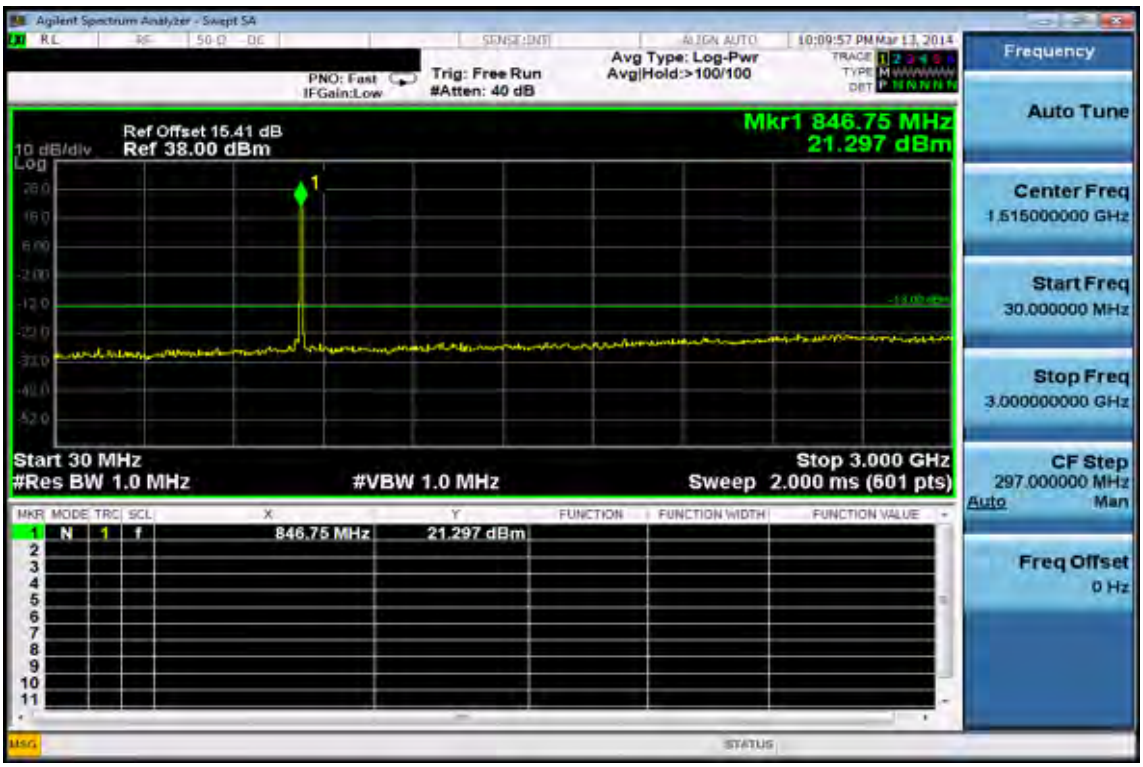

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Figure 9-74: Band edge emission at antenna terminals – HSUPA V Channel Lowest

Figure 9-75: Band edge emission at antenna terminals – HSUPA V Channel Highest

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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

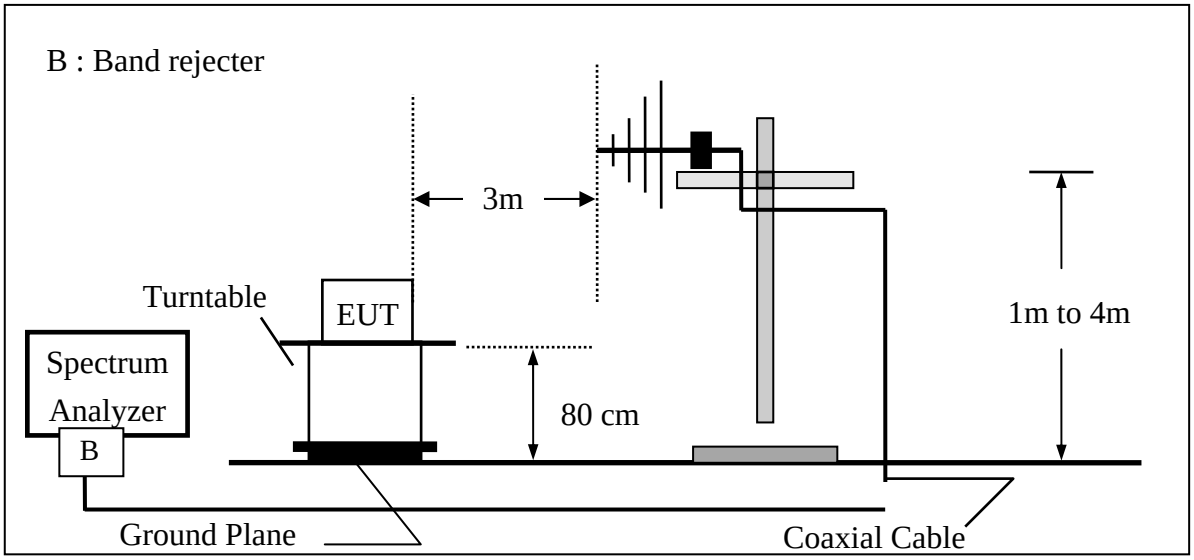
10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a),§24.238(a) , §27.53(h) 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).

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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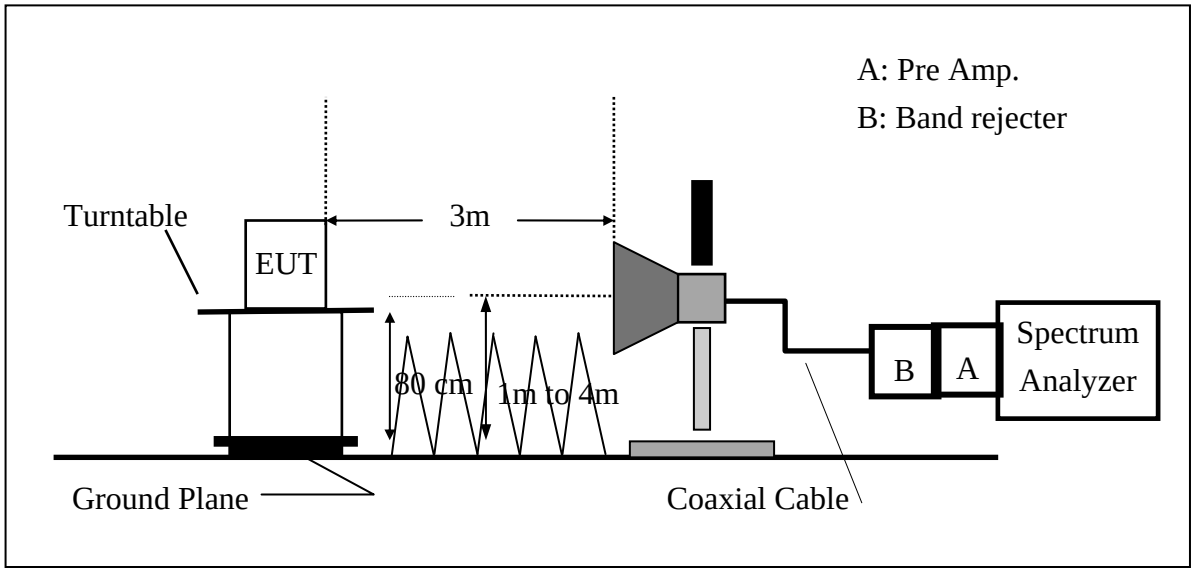
Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. 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 frequencies (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)

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 850	Test Date	:2014-03-13
ARFCN	:CH 128	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Aken
Operation Mode	:TX LOW		
EUT Pol.	:E1Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.57	S	-24.94	-6.72	-17.54	0.68	-13.01	-11.93
62.39	S	-30.81	-21.46	-8.47	0.88	-13.01	-17.80
102.87	S	-28.09	-24.91	-1.99	1.19	-13.01	-15.08
161.17	S	-39.56	-37.20	-0.75	1.61	-13.01	-26.55
606.49	S	-49.87	-42.69	-3.85	3.33	-13.01	-36.86
930.37	S	-46.58	-40.08	-2.32	4.18	-13.01	-33.57
1650.60	H	-41.63	-40.60	3.23	4.25	-13.01	-28.62
2477.00	H	-36.24	-34.53	3.67	5.38	-13.01	-23.23
3303.40	H						
4129.80	H						
4956.20	H						
5782.60	H						
6609.00	H						
7435.40	H						
8261.80	H						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GSM 850	Test Date	:2014-03-13
ARFCN	:CH 128	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Aken
Operation Mode	:TX LOW		
EUT Pol.	:E1Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
62.39	S	-19.56	-10.21	-8.47	0.88	-13.01	-6.55
101.25	S	-39.93	-36.82	-1.94	1.17	-13.01	-26.92
221.09	S	-48.30	-47.17	0.70	1.83	-13.01	-35.29
336.06	S	-53.97	-53.61	1.96	2.32	-13.01	-40.96
708.51	S	-47.07	-43.47	0.13	3.73	-13.01	-34.06
842.92	S	-46.61	-40.79	-1.86	3.97	-13.01	-33.60
1650.60	H	-37.92	-36.89	3.23	4.25	-13.01	-24.91
2477.00	H	-33.83	-32.12	3.67	5.38	-13.01	-20.82
3303.40	H						
4129.80	H						
4956.20	H						
5782.60	H						
6609.00	H						
7435.40	H						
8261.80	H						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GSM 850	Test Date	:2014-03-13
ARFCN	:CH 190	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Aken
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.57	S	-23.87	-5.65	-17.54	0.68	-13.01	-10.86
62.39	S	-30.37	-21.02	-8.47	0.88	-13.01	-17.36
102.87	S	-28.62	-25.44	-1.99	1.19	-13.01	-15.61
127.16	S	-35.61	-32.03	-2.29	1.30	-13.01	-22.60
407.31	S	-56.39	-54.12	0.15	2.43	-13.01	-43.38
708.51	S	-47.20	-43.61	0.13	3.73	-13.01	-34.19
1673.20	H	-39.91	-38.82	3.20	4.30	-13.01	-26.90
2509.80	H	-34.42	-32.74	3.73	5.41	-13.01	-21.41
3346.40	H						
4183.00	H						
5019.60	H						
5826.20	H						
6692.80	H						
7529.40	H						
8366.00	H						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GSM 850	Test Date	:2014-03-13
ARFCN	:CH 190	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Aken
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
60.77	S	-27.00	-16.96	-9.17	0.87	-13.01	-13.99
73.72	S	-35.30	-30.16	-4.19	0.94	-13.01	-22.29
157.93	S	-40.68	-38.28	-0.92	1.47	-13.01	-27.67
315.01	S	-43.79	-43.29	1.72	2.22	-13.01	-30.78
671.27	S	-48.76	-43.27	-2.17	3.32	-13.01	-35.75
842.92	S	-46.55	-40.73	-1.86	3.97	-13.01	-33.54
1673.20	H	-39.79	-38.69	3.20	4.30	-13.01	-26.78
2509.80	H	-33.01	-31.34	3.73	5.41	-13.01	-20.00
3346.40	H						
4183.00	H						
5019.60	H						
5826.20	H						
6692.80	H						
7529.40	H						
8366.00	H						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GSM 850	Test Date	:2014-03-13
ARFCN	:CH 251	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Aken
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.57	S	-24.87	-6.65	-17.54	0.68	-13.01	-11.86
62.39	S	-26.16	-16.81	-8.47	0.88	-13.01	-13.15
102.87	S	-28.54	-25.37	-1.99	1.19	-13.01	-15.53
180.60	S	-35.38	-33.82	0.09	1.65	-13.01	-22.37
310.15	S	-43.38	-42.81	1.58	2.15	-13.01	-30.37
721.47	S	-48.41	-44.92	0.03	3.52	-13.01	-35.40
1695.40	H	-36.71	-35.54	3.17	4.34	-13.01	-23.70
2542.00	H	-31.81	-30.22	3.84	5.43	-13.01	-18.80
3388.60	H						
4235.20	H						
5081.80	H						
5928.40	H						
6775.00	H						
7621.60	H						
8468.20	H						

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GSM 850	Test Date	:2014-03-13
ARFCN	:CH 251	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Aken
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.95	S	-37.97	-18.83	-18.45	0.69	-13.01	-24.96
73.72	S	-35.91	-30.77	-4.19	0.94	-13.01	-22.90
102.87	S	-39.74	-36.57	-1.99	1.19	-13.01	-26.73
336.06	S	-54.21	-53.84	1.96	2.32	-13.01	-41.20
702.04	S	-47.11	-43.84	0.18	3.45	-13.01	-34.10
842.92	S	-46.48	-40.65	-1.86	3.97	-13.01	-33.47
1695.40	H	-40.00	-38.83	3.17	4.34	-13.01	-26.99
2542.00	H	-30.77	-29.18	3.84	5.43	-13.01	-17.76
3388.60	H						
4235.20	H						
5081.80	H						
5928.40	H						
6775.00	H						
7621.60	H						
8468.20	H						

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band	:GPRS 1900	Test Date	:2014-03-13
ARFCN	:CH 512	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Aken
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
44.57	S	-29.97	-13.85	-15.44	0.68	-13.01	-16.96
102.87	S	-30.92	-29.92	0.19	1.19	-13.01	-17.91
128.78	S	-38.16	-36.67	-0.14	1.35	-13.01	-25.15
417.03	S	-62.01	-61.55	2.16	2.62	-13.01	-49.00
635.64	S	-51.86	-45.64	-3.00	3.21	-13.01	-38.85
938.46	S	-48.97	-44.94	0.25	4.29	-13.01	-35.96
3702.60	H	-38.30	-40.34	8.26	6.22	-13.01	-25.29
5555.00	H						
7407.40	H						
9259.80	H	-37.23	-39.80	12.90	10.34	-13.01	-24.22
11112.20	H	-44.11	-45.55	12.94	11.50	-13.01	-31.10
12964.60	H						
14817.00	H						
16669.40	H						
18521.80	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-03-13
ARFCN	:CH 512	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Aken
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.06	S	-25.41	-24.44	0.06	1.03	-13.01	-12.40
106.11	S	-29.83	-28.70	0.06	1.19	-13.01	-16.82
117.45	S	-35.67	-34.08	-0.32	1.27	-13.01	-22.66
413.79	S	-61.08	-60.53	2.22	2.77	-13.01	-48.07
753.86	S	-50.09	-47.09	0.55	3.54	-13.01	-37.08
870.45	S	-48.90	-45.30	0.40	4.00	-13.01	-35.89
3702.60	H	-45.32	-47.36	8.26	6.22	-13.01	-32.31
5555.00	H						
7407.40	H						
9259.80	H	-41.27	-43.83	12.90	10.34	-13.01	-28.26
11112.20	H	-44.57	-46.02	12.94	11.50	-13.01	-31.56
12964.60	H						
14817.00	H						
16669.40	H						
18521.80	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-03-13
ARFCN	:CH 661	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Aken
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
44.57	S	-29.45	-13.33	-15.44	0.68	-13.01	-16.44
102.87	S	-30.92	-29.91	0.19	1.19	-13.01	-17.91
128.78	S	-38.02	-36.53	-0.14	1.35	-13.01	-25.01
417.03	S	-60.64	-60.18	2.16	2.62	-13.01	-47.63
718.23	S	-51.01	-49.77	2.25	3.49	-13.01	-38.00
954.66	S	-48.43	-44.94	0.88	4.37	-13.01	-35.42
3760.00	H	-44.91	-46.96	8.32	6.26	-13.01	-31.90
5640.00	H						
7520.00	H						
9400.00	H	-44.38	-46.80	12.84	10.41	-13.01	-31.37
11280.00	H						
13160.00	H						
15040.00	H						
16920.00	H						
18800.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-03-13
ARFCN	:CH 661	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Aken
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
46.19	S	-39.81	-24.54	-14.53	0.73	-13.01	-26.80
80.20	S	-39.70	-38.29	-0.38	1.03	-13.01	-26.69
102.87	S	-43.10	-42.10	0.19	1.19	-13.01	-30.09
174.12	S	-52.72	-53.09	2.01	1.63	-13.01	-39.71
417.03	S	-58.50	-58.03	2.16	2.62	-13.01	-45.49
870.45	S	-48.78	-45.18	0.40	4.00	-13.01	-35.77
3760.00	H	-50.12	-52.17	8.32	6.26	-13.01	-37.11
5640.00	H						
7520.00	H						
9400.00	H	-46.71	-49.14	12.84	10.41	-13.01	-33.70
11280.00	H						
13160.00	H						
15040.00	H						
16920.00	H						
18800.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-03-13
ARFCN	:CH 810	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Aken
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
36.48	S	-21.10	-0.33	-20.11	0.66	-13.01	-8.09
49.43	S	-26.69	-13.21	-12.72	0.76	-13.01	-13.68
80.20	S	-25.86	-24.45	-0.38	1.03	-13.01	-12.85
102.87	S	-31.68	-30.67	0.19	1.19	-13.01	-18.67
703.66	S	-52.48	-51.30	2.37	3.55	-13.01	-39.47
988.66	S	-48.23	-44.67	0.91	4.48	-13.01	-35.22
3817.40	H	-51.12	-53.20	8.39	6.30	-13.01	-38.11
5725.00	H	-50.30	-52.82	10.30	7.78	-13.01	-37.29
7632.60	H						
9540.20	H						
11447.80	H						
13355.40	H						
15263.00	H						
17170.60	H						
19078.20	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-03-13
ARFCN	:CH 810	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Aken
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.95	S	-20.74	-3.70	-16.35	0.69	-13.01	-7.73
47.81	S	-25.17	-10.79	-13.62	0.75	-13.01	-12.16
68.86	S	-26.54	-22.02	-3.59	0.94	-13.01	-13.53
102.87	S	-43.18	-42.18	0.19	1.19	-13.01	-30.17
417.03	S	-60.56	-60.10	2.16	2.62	-13.01	-47.55
841.30	S	-48.91	-45.29	0.33	3.95	-13.01	-35.90
3817.40	H						
5725.00	H						
7632.60	H						
9540.20	H						
11447.80	H						
13355.40	H						
15263.00	H						
17170.60	H						
19078.20	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Band	:WCDMA B2	Test Date	:2014-03-13
ARFCN	:CH 9262	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Aken
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
44.57	S	-29.80	-13.69	-15.44	0.68	-13.01	-16.79
102.87	S	-31.93	-30.92	0.19	1.19	-13.01	-18.92
128.78	S	-36.84	-35.35	-0.14	1.35	-13.01	-23.83
221.09	S	-50.69	-51.76	2.90	1.83	-13.01	-37.68
716.61	S	-50.93	-49.79	2.27	3.40	-13.01	-37.92
990.28	S	-48.03	-44.57	0.92	4.37	-13.01	-35.02
3704.80	H	-47.33	-49.37	8.27	6.23	-13.01	-34.32
5557.20	H						
7409.60	H						
9262.00	H						
11114.40	H						
12966.80	H						
14819.20	H						
16671.60	H						
18524.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-03-13
ARFCN	:CH 9262	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Aken
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.86	S	-27.79	-6.09	-21.09	0.62	-13.01	-14.78
67.25	S	-29.65	-24.46	-4.28	0.90	-13.01	-16.64
75.34	S	-32.33	-29.71	-1.66	0.96	-13.01	-19.32
102.87	S	-42.08	-41.08	0.19	1.19	-13.01	-29.07
224.32	S	-53.68	-54.76	2.90	1.82	-13.01	-40.67
841.30	S	-49.15	-45.53	0.33	3.95	-13.01	-36.14
3704.80	H	-49.96	-52.00	8.26	6.22	-13.01	-36.95
5557.20	H						
7409.60	H						
9262.00	H						
11114.40	H						
12966.80	H						
14819.20	H						
16671.60	H						
18524.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
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Operation Band	:WCDMA B2	Test Date	:2014-03-13
ARFCN	:CH 9400	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Aken
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
44.57	S	-29.85	-13.74	-15.44	0.68	-13.01	-16.84
102.87	S	-31.33	-30.32	0.19	1.19	-13.01	-18.32
120.68	S	-29.38	-27.71	-0.38	1.29	-13.01	-16.37
219.47	S	-50.01	-51.09	2.90	1.82	-13.01	-37.00
591.92	S	-54.09	-49.95	-0.74	3.40	-13.01	-41.08
954.66	S	-49.11	-45.61	0.88	4.37	-13.01	-36.10
3760.00	H						
5640.00	H						
7520.00	H						
9400.00	H						
11280.00	H						
13160.00	H						
15040.00	H						
16920.00	H						
18800.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-03-13
ARFCN	:CH 9400	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Aken
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
46.19	S	-33.04	-17.77	-14.53	0.73	-13.01	-20.03
80.20	S	-41.61	-40.20	-0.38	1.03	-13.01	-28.60
104.49	S	-43.51	-42.44	0.12	1.19	-13.01	-30.50
417.03	S	-59.10	-58.64	2.16	2.62	-13.01	-46.09
679.37	S	-51.47	-48.65	0.75	3.57	-13.01	-38.46
868.83	S	-48.82	-45.22	0.40	4.00	-13.01	-35.81
3760.00	H						
5640.00	H						
7520.00	H						
9400.00	H						
11280.00	H						
13160.00	H						
15040.00	H						
16920.00	H						
18800.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-03-13
ARFCN	:CH 9538	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Aken
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
44.57	S	-29.51	-13.40	-15.44	0.68	-13.01	-16.50
104.49	S	-31.50	-30.43	0.12	1.19	-13.01	-18.49
128.78	S	-37.92	-36.43	-0.14	1.35	-13.01	-24.91
221.09	S	-52.48	-53.55	2.90	1.83	-13.01	-39.47
635.64	S	-52.98	-46.76	-3.00	3.21	-13.01	-39.97
969.23	S	-48.98	-45.39	0.82	4.41	-13.01	-35.97
3815.20	H						
5722.80	H						
7630.40	H						
9538.00	H						
11445.60	H						
13353.20	H						
15260.80	H						
17168.40	H						
19076.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:WCDMA B2	Test Date	:2014-03-13
ARFCN	:CH 9538	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Aken
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.95	S	-27.83	-10.80	-16.35	0.69	-13.01	-14.82
80.20	S	-37.78	-36.37	-0.38	1.03	-13.01	-24.77
98.01	S	-40.40	-39.59	0.34	1.15	-13.01	-27.39
417.03	S	-58.31	-57.84	2.16	2.62	-13.01	-45.30
753.86	S	-48.76	-45.76	0.55	3.54	-13.01	-35.75
842.92	S	-48.36	-44.74	0.34	3.97	-13.01	-35.35
3815.20	H						
5722.80	H						
7630.40	H						
9538.00	H						
11445.60	H						
13353.20	H						
15260.80	H						
17168.40	H						
19076.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA IV Mode

Operation Band	:HSUPA B4	Test Date	:2014-03-13
ARFCN	:CH 1312	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Aken
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
44.57	S	-31.79	-15.67	-15.44	0.68	-13.01	-18.78
65.63	S	-36.98	-31.06	-4.98	0.94	-13.01	-23.97
102.87	S	-31.41	-30.41	0.19	1.19	-13.01	-18.40
360.35	S	-54.23	-55.52	3.77	2.48	-13.01	-41.22
634.02	S	-42.23	-36.02	-3.09	3.12	-13.01	-29.22
920.65	S	-38.91	-34.22	-0.41	4.27	-13.01	-25.90
3424.80	H	-51.69	-53.57	7.93	6.05	-13.01	-38.68
5137.20	H						
6849.60	H						
8562.00	H						
10274.40	H	-42.03	-43.81	12.80	11.02	-13.01	-29.02
11986.80	H						
13699.20	H						
15411.60	H						
17124.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2014-03-13
ARFCN	:CH 1312	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Aken
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
46.19	S	-32.04	-16.77	-14.53	0.73	-13.01	-19.03
110.97	S	-37.07	-35.72	-0.13	1.22	-13.01	-24.06
431.60	S	-52.20	-51.44	1.97	2.73	-13.01	-39.19
693.94	S	-41.18	-39.49	1.92	3.61	-13.01	-28.17
834.82	S	-37.97	-34.41	0.28	3.84	-13.01	-24.96
923.89	S	-37.90	-33.18	-0.48	4.24	-13.01	-24.89
3424.80	H	-54.14	-56.02	7.93	6.05	-13.01	-41.13
5137.20	H						
6849.60	H						
8562.00	H						
10274.40	H						
11986.80	H						
13699.20	H						
15411.60	H						
17124.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2014-03-13
ARFCN	:CH 1413	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Aken
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
44.57	S	-31.73	-15.62	-15.44	0.68	-13.01	-18.72
62.39	S	-21.85	-14.60	-6.37	0.88	-13.01	-8.84
112.59	S	-30.62	-29.23	-0.18	1.22	-13.01	-17.61
237.28	S	-49.24	-50.20	2.85	1.89	-13.01	-36.23
642.12	S	-42.39	-36.27	-2.64	3.48	-13.01	-29.38
957.90	S	-37.27	-33.82	0.87	4.31	-13.01	-24.26
3465.20	H	-53.88	-55.83	8.03	6.08	-13.01	-40.87
5197.80	H						
6930.40	H						
8663.00	H						
10395.60	H	-40.91	-42.69	12.80	11.02	-13.01	-27.90
12128.20	H						
13860.80	H						
15593.40	H						
17326.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2014-03-13
ARFCN	:CH 1413	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Aken
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
46.19	S	-35.81	-20.55	-14.53	0.73	-13.01	-22.80
80.20	S	-38.74	-37.33	-0.38	1.03	-13.01	-25.73
104.49	S	-42.68	-41.61	0.12	1.19	-13.01	-29.67
180.60	S	-52.48	-53.13	2.29	1.65	-13.01	-39.47
651.84	S	-43.68	-38.49	-2.01	3.18	-13.01	-30.67
855.88	S	-37.87	-34.29	0.40	3.98	-13.01	-24.86
3465.20	H	-55.88	-57.84	8.03	6.08	-13.01	-42.87
5197.80	H						
6930.40	H						
8663.00	H						
10395.60	H						
12128.20	H						
13860.80	H						
15593.40	H						
17326.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:HSUPA B4	Test Date	:2014-03-13
ARFCN	:CH 1513	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Aken
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
64.01	S	-19.64	-13.03	-5.68	0.93	-13.01	-6.63
78.58	S	-30.06	-28.27	-0.78	1.01	-13.01	-17.05
104.49	S	-32.23	-31.16	0.12	1.19	-13.01	-19.22
170.88	S	-42.21	-42.52	1.84	1.53	-13.01	-29.20
708.51	S	-40.84	-39.44	2.33	3.73	-13.01	-27.83
842.92	S	-39.54	-35.92	0.34	3.97	-13.01	-26.53
3505.20	H	-56.83	-58.83	8.10	6.10	-13.01	-43.82
5257.80	H						
7010.40	H						
8763.00	H						
10515.60	H	-40.59	-42.42	12.80	10.97	-13.01	-27.58
12268.20	H						
14020.80	H						
15773.40	H						
17526.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2014-03-13
ARFCN	:CH 1513	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Aken
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
46.19	S	-36.18	-20.91	-14.53	0.73	-13.01	-23.17
80.20	S	-41.69	-40.28	-0.38	1.03	-13.01	-28.68
104.49	S	-44.39	-43.32	0.12	1.19	-13.01	-31.38
222.70	S	-50.19	-51.29	2.90	1.80	-13.01	-37.18
612.97	S	-45.42	-39.64	-2.40	3.38	-13.01	-32.41
865.59	S	-37.36	-34.01	0.40	3.75	-13.01	-24.35
3505.20	H						
5257.80	H						
7010.40	H						
8763.00	H						
10515.60	H						
12268.20	H						
14020.80	H						
15773.40	H						
17526.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Band	:WCDMA B5	Test Date	:2014-03-13
ARFCN	:CH 4132	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Aken
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.57	S	-24.92	-6.71	-17.54	0.68	-13.01	-11.91
62.39	S	-32.53	-23.18	-8.47	0.88	-13.01	-19.52
102.87	S	-28.12	-24.95	-1.99	1.19	-13.01	-15.11
407.31	S	-55.89	-53.62	0.15	2.43	-13.01	-42.88
708.51	S	-48.29	-44.69	0.13	3.73	-13.01	-35.28
855.88	S	-47.22	-41.43	-1.80	3.98	-13.01	-34.21
1652.80	H	-53.69	-52.65	3.22	4.27	-13.01	-40.68
2479.20	H	-51.01	-49.30	3.68	5.39	-13.01	-38.00
3305.60	H						
4132.00	H						
4958.40	H						
5784.80	H						
6611.20	H						
7437.60	H						
8264.00	H						

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	: WCDMA B5	Test Date	:2014-03-13
ARFCN	:CH 4132	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Aken
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
46.19	S	-22.61	-5.24	-16.63	0.73	-13.01	-9.60
80.20	S	-31.05	-27.54	-2.48	1.03	-13.01	-18.04
99.63	S	-35.85	-32.80	-1.89	1.16	-13.01	-22.84
224.32	S	-46.67	-45.56	0.70	1.82	-13.01	-33.66
753.86	S	-47.32	-42.13	-1.64	3.54	-13.01	-34.31
872.07	S	-46.57	-40.66	-1.80	4.11	-13.01	-33.56
1652.80	H	-50.39	-49.34	3.22	4.27	-13.01	-37.38
2479.20	H	-47.98	-46.27	3.67	5.38	-13.01	-34.97
3305.60	H						
4132.00	H						
4958.40	H						
5784.80	H						
6611.20	H						
7437.60	H						
8264.00	H						

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-03-13
ARFCN	:CH 4183	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Aken
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.57	S	-26.74	-8.53	-17.54	0.68	-13.01	-13.73
102.87	S	-28.21	-25.03	-1.99	1.19	-13.01	-15.20
115.83	S	-29.87	-26.23	-2.37	1.26	-13.01	-16.86
417.03	S	-58.76	-56.10	-0.04	2.62	-13.01	-45.75
530.38	S	-55.86	-51.79	-0.89	3.18	-13.01	-42.85
799.20	S	-48.77	-42.08	-2.98	3.71	-13.01	-35.76
1673.20	H	-54.69	-53.60	3.20	4.30	-13.01	-41.68
2509.80	H	-50.33	-48.66	3.73	5.41	-13.01	-37.32
3346.40	H						
4183.00	H						
5019.60	H						
5856.20	H						
6692.80	H						
7529.40	H						
8366.00	H						

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-03-13
ARFCN	:CH 4183	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Aken
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.57	S	-38.52	-20.31	-17.54	0.68	-13.01	-25.51
80.20	S	-35.61	-32.09	-2.48	1.03	-13.01	-22.60
102.87	S	-39.52	-36.34	-1.99	1.19	-13.01	-26.51
219.47	S	-49.64	-48.52	0.70	1.82	-13.01	-36.63
719.85	S	-47.75	-44.32	0.04	3.47	-13.01	-34.74
841.30	S	-46.37	-40.54	-1.87	3.95	-13.01	-33.36
1673.20	H	-48.85	-47.75	3.20	4.30	-13.01	-35.84
2509.80	H	-47.83	-46.16	3.73	5.41	-13.01	-34.82
3346.40	H						
4183.00	H						
5019.60	H						
5856.20	H						
6692.80	H						
7529.40	H						
8366.00	H						

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-03-13
ARFCN	:CH 4233	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Aken
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.57	S	-26.19	-7.98	-17.54	0.68	-13.01	-13.18
102.87	S	-28.33	-25.15	-1.99	1.19	-13.01	-15.32
212.99	S	-45.86	-44.77	0.70	1.79	-13.01	-32.85
590.30	S	-51.61	-45.64	-2.77	3.20	-13.01	-38.60
714.99	S	-49.17	-45.80	0.08	3.45	-13.01	-36.16
938.46	S	-46.07	-39.88	-1.90	4.29	-13.01	-33.06
1693.20	H	-52.34	-51.17	3.17	4.34	-13.01	-39.33
2539.80	H	-49.39	-47.78	3.81	5.42	-13.01	-36.38
3386.40	H						
4233.00	H						
5079.60	H						
5926.20	H						
6772.80	H						
7619.40	H						
8466.00	H						

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:WCDMA B5	Test Date	:2014-03-13
ARFCN	:CH 4233	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Aken
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
46.19	S	-39.12	-21.76	-16.63	0.73	-13.01	-26.11
80.20	S	-36.29	-32.78	-2.48	1.03	-13.01	-23.28
104.49	S	-39.93	-36.70	-2.03	1.19	-13.01	-26.92
337.68	S	-54.71	-54.40	1.95	2.26	-13.01	-41.70
755.48	S	-47.55	-42.22	-1.70	3.64	-13.01	-34.54
954.66	S	-46.31	-40.62	-1.32	4.37	-13.01	-33.30
1693.20	H	-46.45	-45.28	3.17	4.34	-13.01	-33.44
2539.80	H	-47.47	-45.87	3.81	5.42	-13.01	-34.46
3386.40	H						
4233.00	H						
5079.60	H						
5926.20	H						
6772.80	H						
7619.40	H						
8466.00	H						

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

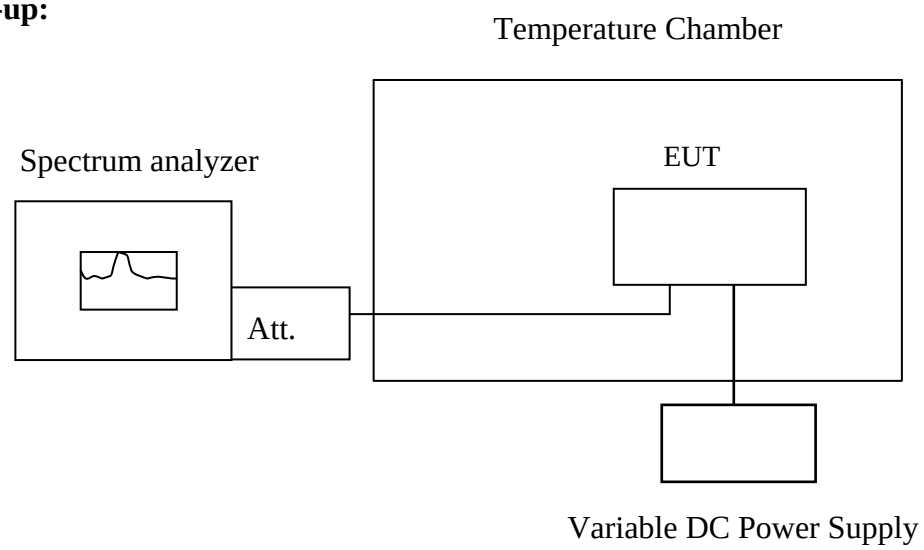
According to FCC §2.1055(a) (1)

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

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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11.3. 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.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.6	-30	836.600003	-8.00	2091.5
3.6	-20	836.600007	-4.00	2091.5
3.6	-10	836.600009	-2.00	2091.5
3.6	0	836.600004	-7.00	2091.5
3.6	10	836.600013	2.00	2091.5
3.6	20	836.600011	0.00	2091.5
3.6	30	836.600011	0.00	2091.5
3.6	40	836.600009	-2.00	2091.5
3.6	50	836.600006	-5.00	2091.5

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.6	-30	1880.000004	17.00	4700
3.6	-20	1879.999996	9.00	4700
3.6	-10	1879.999995	8.00	4700
3.6	0	1879.999993	6.00	4700
3.6	10	1879.999991	4.00	4700
3.6	20	1879.999987	0.00	4700
3.6	30	1879.99999	3.00	4700
3.6	40	1879.999991	4.00	4700
3.6	50	1879.999993	6.00	4700

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Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.6	-30	1880.000003	8.00	4700
3.6	-20	1880.000002	7.00	4700
3.6	-10	1880.000001	6.00	4700
3.6	0	1879.999999	4.00	4700
3.6	10	1879.999997	2.00	4700
3.6	20	1879.999995	0.00	4700
3.6	30	1879.999993	-2.00	4700
3.6	40	1879.999995	0.00	4700
3.6	50	1879.999994	-1.00	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6				
Limit: +/- 2.5 ppm = 4331 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.6	-30	1732.600007	4.00	4331.5
3.6	-20	1732.600002	-1.00	4331.5
3.6	-10	1732.600003	0.00	4331.5
3.6	0	1732.600008	5.00	4331.5
3.6	10	1732.600004	1.00	4331.5
3.6	20	1732.600003	0.00	4331.5
3.6	30	1732.599996	-7.00	4331.5
3.6	40	1732.599997	-6.00	4331.5
3.6	50	1732.599999	-4.00	4331.5

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Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-30	836.600005	1.00	2091.5
3.6	-20	836.600004	0.00	2091.5
3.6	-10	836.600008	4.00	2091.5
3.6	0	836.600003	-1.00	2091.5
3.6	10	836.600002	-2.00	2091.5
3.6	20	836.600004	0.00	2091.5
3.6	30	836.599998	-6.00	2091.5
3.6	40	836.599996	-8.00	2091.5
3.6	50	836.599995	-9.00	2091.5

Note: The battery is rated 3.7V dc.

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12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

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

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.20	25	836.600012	-2.00	2091.5
3.60	25	836.600014	0.00	2091.5
3.40 (End point)	25	836.60001	-4.00	2091.5

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.20	25	1879.999991	3.00	4700
3.60	25	1879.999988	0.00	4700
3.40 (End point)	25	1879.999985	-3.00	4700

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Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
4.20	25	1879.999998	2.00	4700
3.60	25	1879.999996	0.00	4700
3.40 (End point)	25	1879.99999	-6.00	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
4.20	25	1732.600002	-1.00	4331.5
3.60	25	1732.600003	0.00	4331.5
3.40 (End point)	25	1732.600008	5.00	4331.5

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
4.20	25	836.600002	-1.00	2091.5
3.60	25	836.600003	0.00	2091.5
3.40 (End point)	25	836.600008	5.00	2091.5

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