



Report No.: SZ14040088W01

# FCC TEST REPORT



Issued to

GUANGDONG OPPO MOBILE  
TELECOMMUNICATIONS CORP., LTD

For

## Mobile Phone

Model Name: OPPO X9076  
Trade Name: OPPO  
Brand Name: OPPO  
FCC ID : R9C-X9076  
Standard: 47 CFR Part 22 Subpart H  
47 CFR Part 24 Subpart E  
47 CFR Part 27 Subpart L  
Test date: 2014-4-17 to 2014-5-8  
Issue date: 2014-5-9

By

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Date 2014.5.9



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Date 2014.5.9

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Change History		
Issue	Date	Reason for change
1.0	May 9, 2014	First edition

## 1. GENERAL INFORMATION

### 1.1 EUT Description

EUT Type..... : Mobile Phone  
Serial No..... : (n.a, marked #1 by test site)  
Hardware Version ..... : 214076  
Software Version ..... : X9076\_12\_A.01\_140410  
Applicant..... : GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD  
NO.18HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN,  
GUANGDONG, CHINA  
Manufacturer ..... : GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD  
NO.18 HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN,  
GUANGDONG, CHINA  
Frequency Range ..... : GSM 850MHz:  
Tx: 824.20 - 848.80MHz (at intervals of 200kHz);  
Rx: 869.20 - 893.80MHz (at intervals of 200kHz)  
GSM 1900MHz:  
Tx: 1850.20 - 1909.80MHz (at intervals of 200kHz);  
Rx: 1930.20 - 1989.80MHz (at intervals of 200kHz)  
WCDMA 850MHz  
Tx: 826.4 - 846.6MHz (at intervals of 200kHz);  
Rx: 871.4 - 891.6MHz (at intervals of 200kHz)  
WCDMA 1900MHz  
Tx: 1852.4 - 1907.6MHz (at intervals of 200kHz);  
Rx: 1932.4 - 1987.6MHz (at intervals of 200kHz)  
WCDMA 1700MHz  
Tx: 1712.4 - 1752.6MHz (at intervals of 200kHz);  
Rx: 2112.4 - 2152.6MHz (at intervals of 200kHz)  
Modulation Type ..... : GSM,GPRS Mode with GMSK Modulation  
EDGE Mode with 8PSK Modulation  
WCDMA Mode with QPSK Modulation  
HSDPA Mode with QPSK Modulation  
HSUPA Mode with QPSK Modulation  
HSPA+ Mode with QPSK Modulation  
Multislot Class ..... : GPRS: Multislot Class 33,EGPRS: Multislot Class 33  
Antenna Type ..... : PIFA Antenna  
Emission Designators ..... : GSM 850:247KGXW,GSM 1900:248KGXW  
EGPRS850:246KG7W, EGPRS1900:248KG7W,  
WCDMA 850:4M17F9W ,WCDMA1900:4M17F9W  
WCDMA1700:4M18F9W

**Note 1:** The transmitter (Tx) frequency arrangement of the Cellular 850MHz band used by the EUT can

be represented with the formula  $F(n)=824.2+0.2*(n-128)$ ,  $128 \leq n \leq 251$ ; the lowest, middle, highest channel numbers (ARFCHs) used and tested in this report are separately 128 (824.2MHz), 190 (836.6MHz) and 251 (848.8MHz).

**Note 2:** The transmitter (Tx) frequency arrangement of the PCS 1900MHz band used by the EUT can be represented with the formula  $F(n)=1850.2+0.2*(n-512)$ ,  $512 \leq n \leq 810$ ; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 512 (1850.2MHz), 661 (1880.0MHz) and 810 (1909.8MHz).

**Note 3:** The transmitter (Tx) frequency arrangement of the WCDMA 850MHz band used by the EUT can be represented with the formula  $F(n)=826.4+0.2*(n-4132)$ ,  $4132 \leq n \leq 4233$ ; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 4132 (826.4MHz), 4175 (835MHz) and 4233 (846.6MHz).

**Note 4:** The transmitter (Tx) frequency arrangement of the WCDMA 1900MHz band used by the EUT can be represented with the formula  $F(n)=1852.4+0.2*(n-9262)$ ,  $9262 \leq n \leq 9538$ ; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 9262 (1852.4MHz), 9400 (1880MHz) and 9538 (1907.6MHz).

**Note 5:** The transmitter (Tx) frequency arrangement of the WCDMA 1700MHz band used by the EUT can be represented with the formula  $F(n)=1712.4+0.2*(n-1312)$ ,  $1312 \leq n \leq 1513$ ; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 1312 (1712.4MHz), 1412 (1732.4MHz) and 1513 (1752.6MHz).

**Note 6:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

## 1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22 and Part 24, 27 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-13 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-13 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-13 Edition)	Personal Communications Services
4	47 CFR Part 27 (10-1-13 Edition)	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	2.1046	Conducted RF Output Power	PASS
2.	24.232(d) ,27.50(d)(5)	Peak to average radio	PASS
2	2.1049,22.917 24.238, 27.53(g)	99% Occupied Bandwidth	PASS
3	2.1055,22.355 24.235,27.54	Frequency Stability	PASS
4	2.1051,2.1057 22.917,24.238, 27.53(g)	Conducted Out of Band Emissions	PASS
5	2.1051,2.1057 22.917,24.238 27.53(g)(h)	Band Edge	PASS
6	22.913,24.232 27.50(d)(4)	Transmitter Radiated Power (EIPR/ERP)	PASS
7	2.1053,2.1057 22.917,24.238 27.53(g)	Radiated Out of Band Emissions	PASS

**NOTE:** Measurement method according to TIA/EIA 603.D-2010

## 1.3 Facilities and Accreditations

### 1.3.1 Facilities

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China 518101. The test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 695796.

### 1.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

## 2. 47 CFR PART 2, PART 22H & 24E 27L REQUIREMENTS

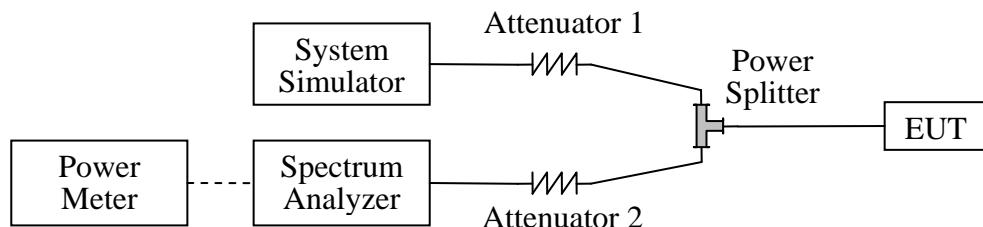
### 2.1 Conducted RF Output Power

#### 2.1.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

#### 2.1.2 Test Description

##### 1. Test Setup:



The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

The Power Meter was just used for the Conducted RF Output Power test of WCDMA Model.

##### 2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2014.02.26	2015.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2014.02.26	2015.02.25
Power Meter	Agilent	E4418B	GB43318055	2014.02.26	2015.02.25
Power Sensor	Agilent	8482A	MY41091706	2014.02.26	2015.02.25
Power Splitter	Weinschel	1506A	NW521	2014.02.26	2015.02.25
Attenuator 1	Resnet	20dB	(n.a.)	2014.02.26	2015.02.25
Attenuator 2	Resnet	3dB	(n.a.)	2014.02.26	2015.02.25

### 2.1.3 Test Results

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

#### 1. GSM Model Test Verdict:

Band	Channel	Frequency (MHz)	Measured Output Power		Limit dBm	Verdict
			dBm	Refer to Plot		
GSM 850MHz	128	824.2	32.75	Plot A1 to A3	35	PASS
	190	836.6	32.45			PASS
	251	848.8	32.26			PASS
GSM 1900MHz	512	1850.2	29.35	Plot B1 to B3	32	PASS
	661	1880.0	29.11			PASS
	810	1909.8	29.36			PASS
GPRS 850MHz	128	824.2	31.38	Plot C1 to C3 <sup>Note 1</sup>	35	PASS
	190	836.6	31.12			PASS
	251	848.8	31.05			PASS
GPRS 1900MHz	512	1850.2	26.98	Plot D1 to D3 <sup>Note 1</sup>	32	PASS
	661	1880.0	26.83			PASS
	810	1909.8	26.91			PASS
EGPRS 850MHz	128	824.2	30.19	Plot E1 to E3 <sup>Note 1</sup>	35	PASS
	190	836.6	30.13			PASS
	251	848.8	30.10			PASS
EGPRS 1900MHz	512	1850.2	27.76	Plot F1 to F3 <sup>Note 1</sup>	32	PASS
	661	1880.0	27.64			PASS
	810	1909.8	27.67			PASS

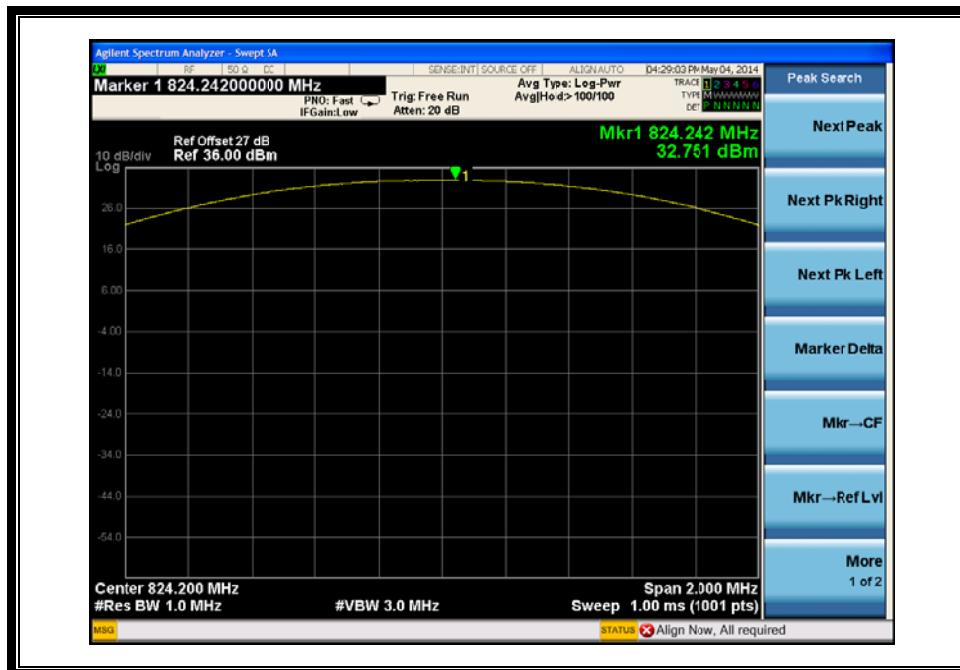
**Note 1:** For the GPRS and EGPRS model, all the slots were tested and just the worst data was record in this report.

## 2. WCDMA Model Test Verdict:

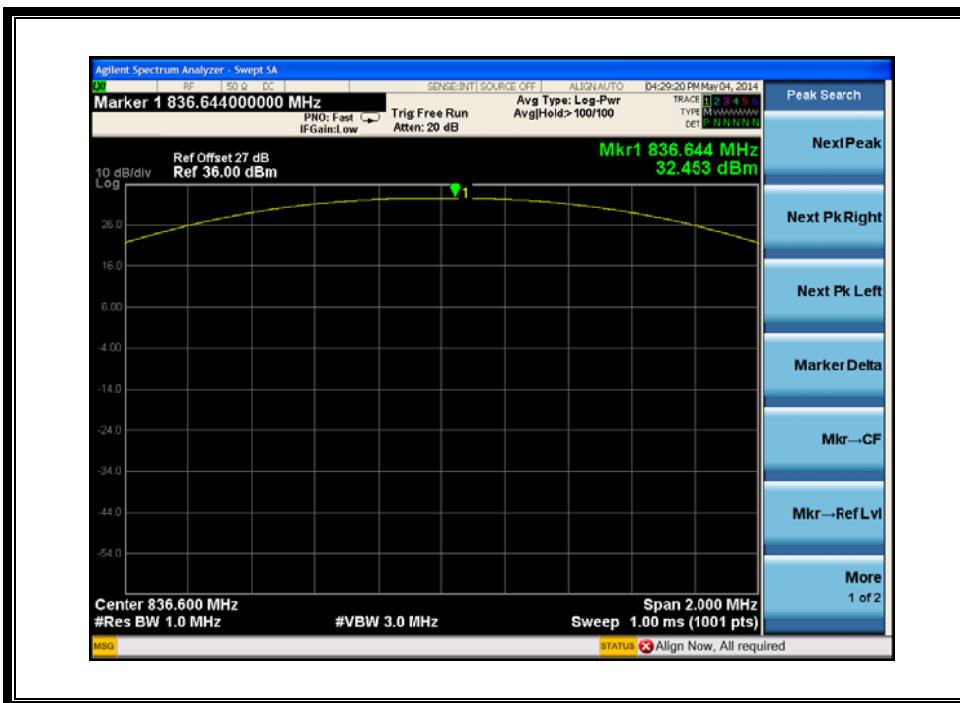
Item	band	WCDMA 850			WCDMA 1900		
	ARFCN	4132	4175	4233	9262	9400	9538
	subtest	dBm			dBm		
5.2(WCDMA)	non	24.61	24.47	24.43	24.13	24.07	23.70
HSDPA	1	24.61	24.37	24.38	24.08	24.04	23.63
	2	24.59	24.40	24.33	24.01	24.00	23.66
	3	24.06	23.96	23.85	23.52	23.49	23.13
	4	24.08	23.99	23.91	23.51	23.50	23.10
	1	24.54	24.40	24.43	24.07	24.02	23.67
HSUPA	2	22.55	22.38	22.44	22.08	22.01	21.69
	3	23.61	23.42	23.35	23.10	23.02	22.56
	4	22.59	22.36	22.40	22.03	21.99	21.71
	5	24.48	24.39	24.33	24.00	23.98	23.58
HSPA+	1	24.53	24.44	24.35	24.12	24.07	23.66
Note:	The Conducted RF Output Power test of WCDMA /HSDPA /HSUPA /HSPA+ was tested by power meter.						

Item	band	WCDMA 1700		
	ARFCN	1312	1412	1513
	subtest	dBm		
5.2(WCDMA)	non	24.81	24.83	24.86
HSDPA	1	24.79	24.80	24.78
	2	24.74	24.77	24.62
	3	24.24	24.28	24.11
	4	24.22	24.19	24.13
	1	24.73	24.77	24.84
HSUPA	2	22.68	22.74	22.78
	3	23.71	23.72	23.81
	4	22.77	22.69	22.83
	5	24.68	24.66	24.76
	1	24.75	24.74	24.75
Note	The Conducted RF Output Power test of WCDMA /HSDPA /HSUPA /HSPA+ was tested by power meter.			

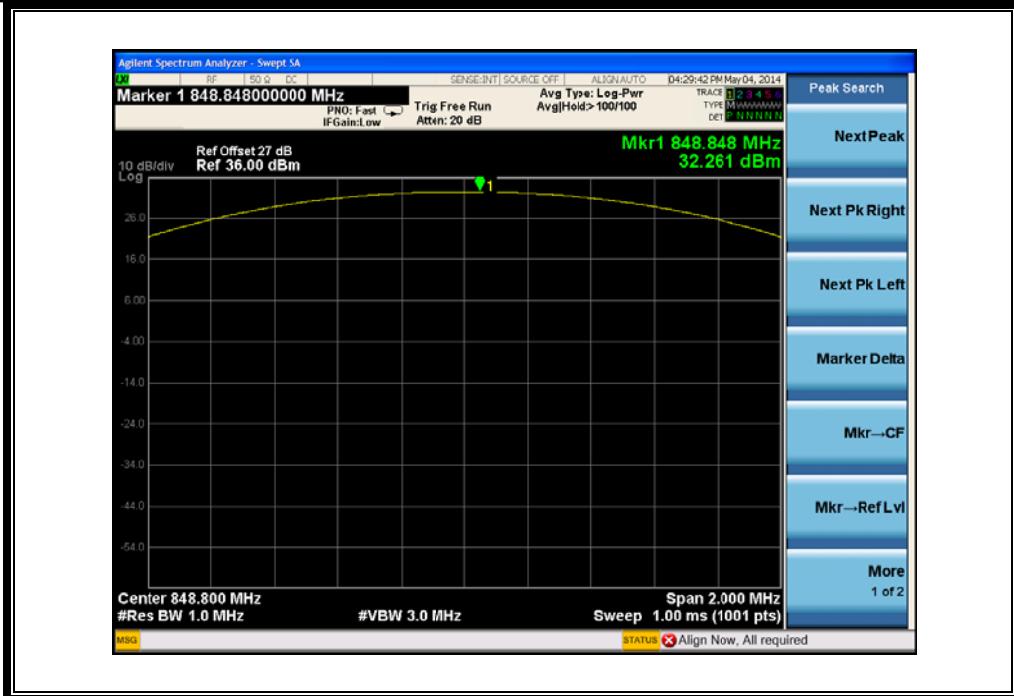
### 3. GSM Model Test Plots:



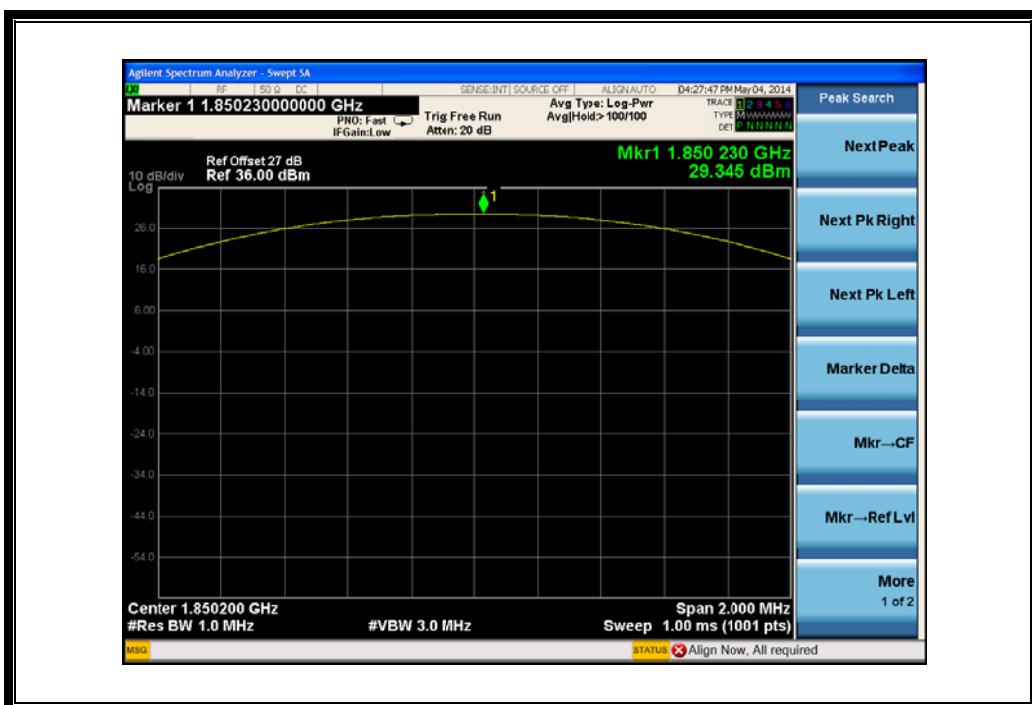
(Plot A1:GSM 850MHz Channel = 128)



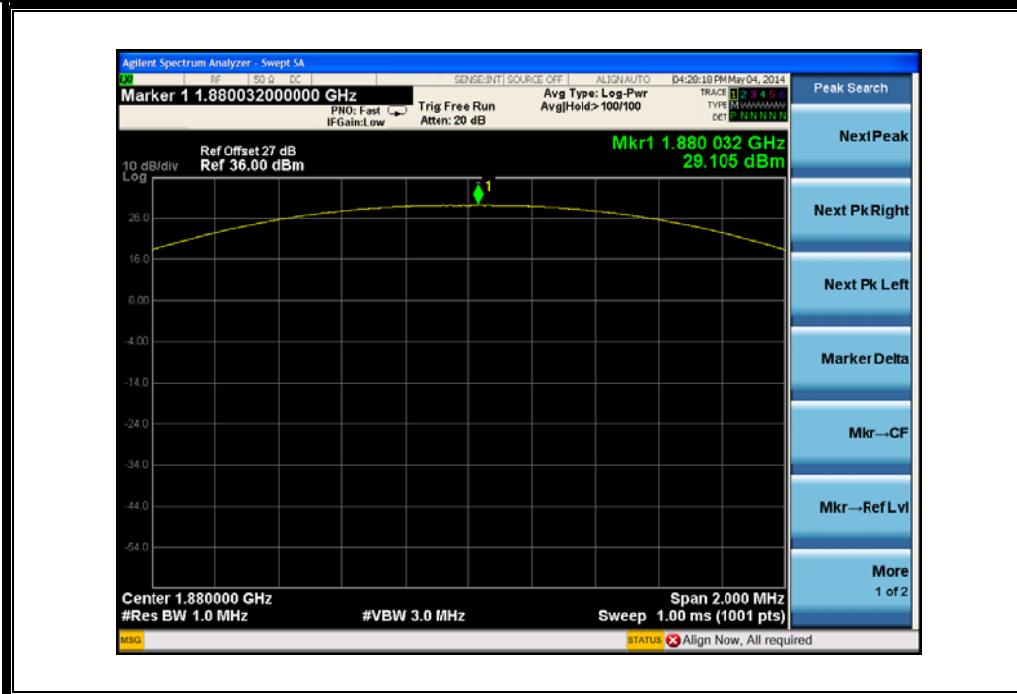
(Plot A2:GSM 850MHz Channel = 190)



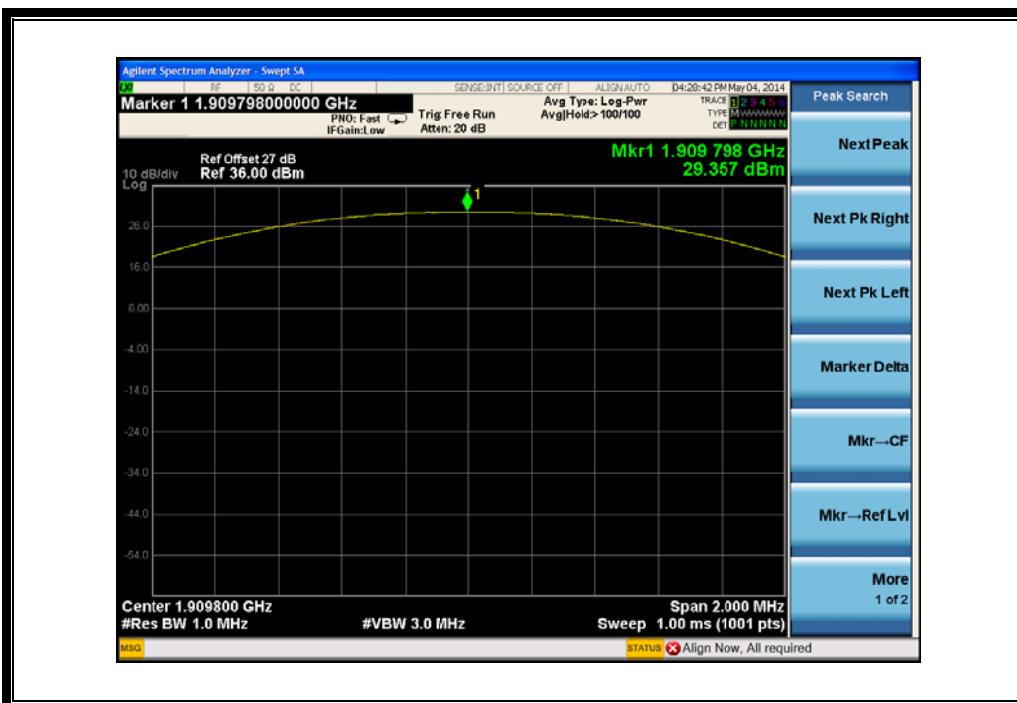
(Plot A3:GSM 850MHz Channel = 251)



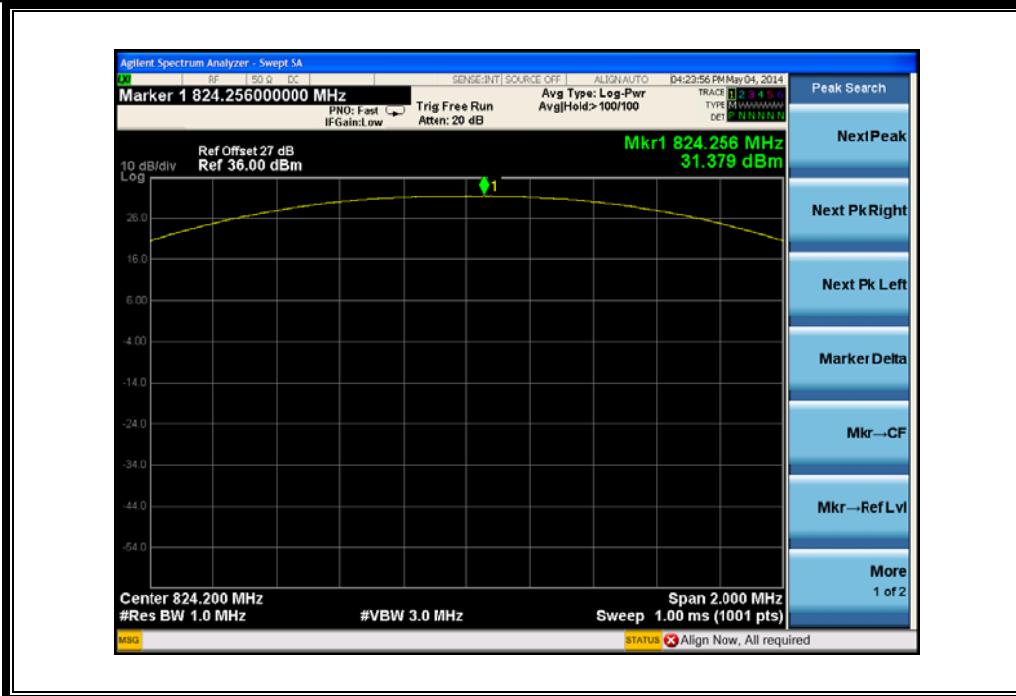
(Plot B1: GSM 1900MHz Channel = 512)



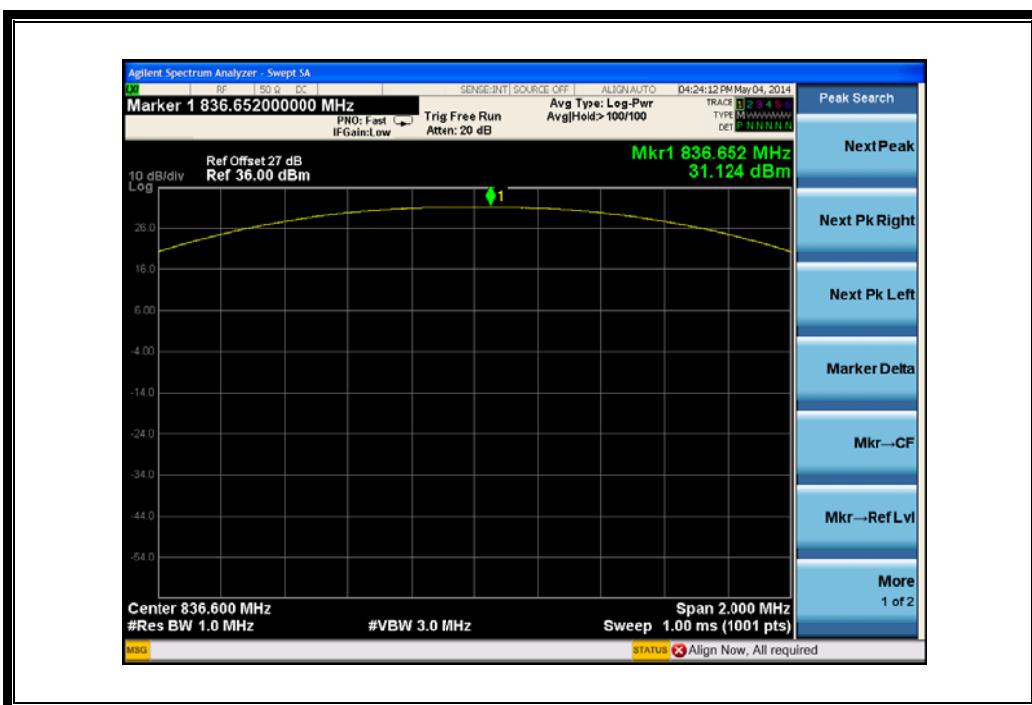
(Plot B2: GSM 1900MHz Channel = 661)



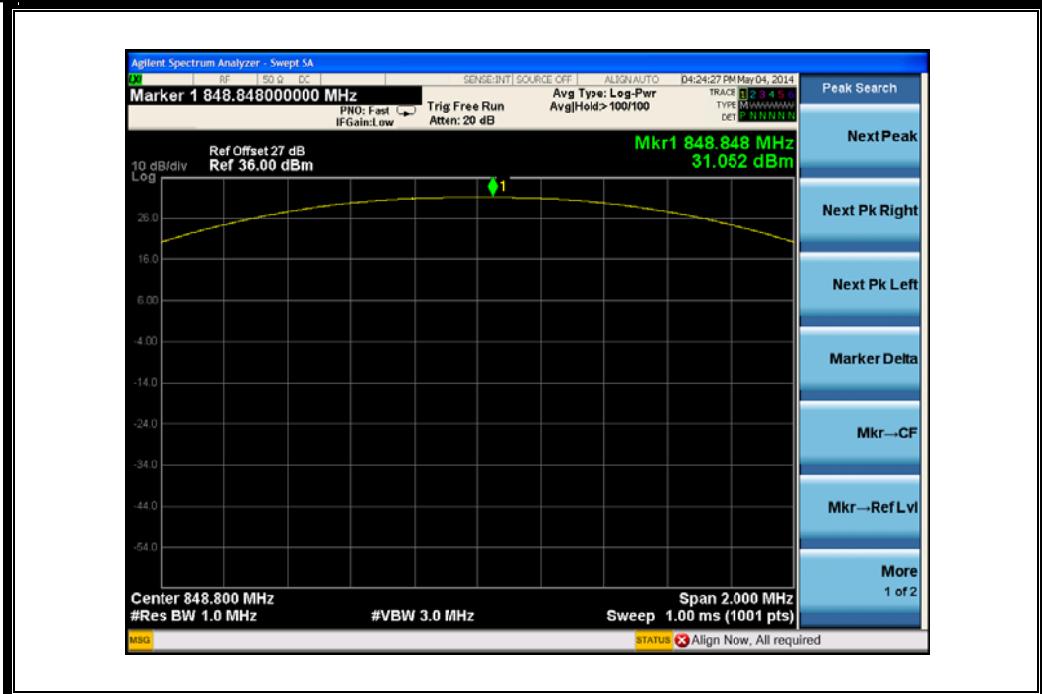
(Plot B3: GSM 1900Hz Channel = 810)



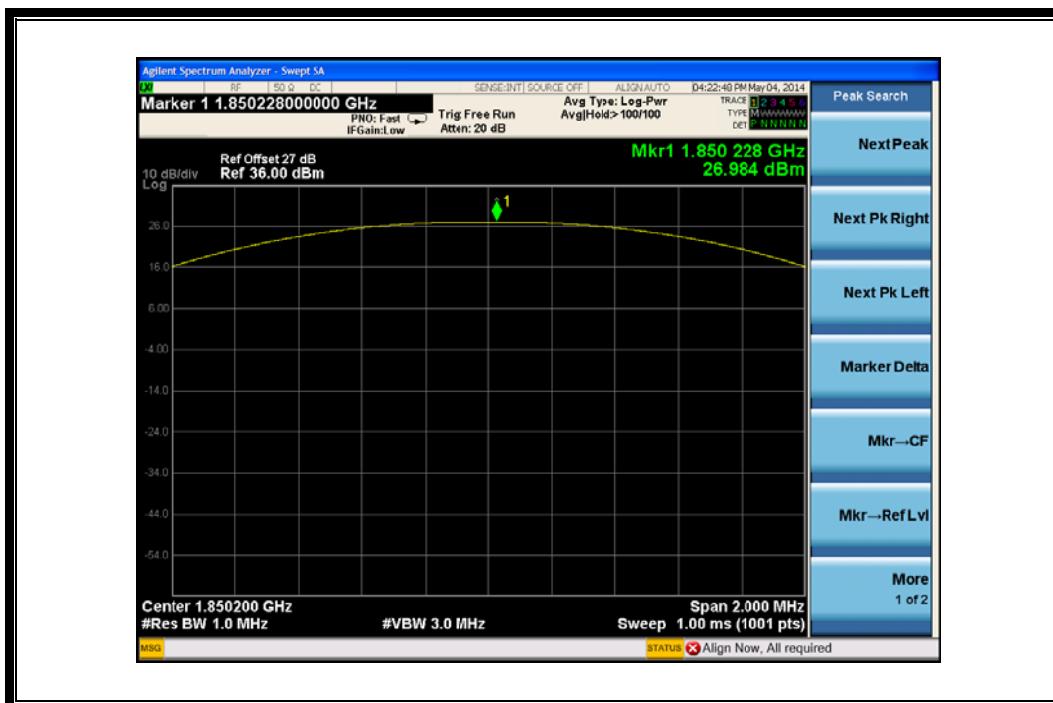
(Plot C 1: GPRS 850MHz Channel = 128)



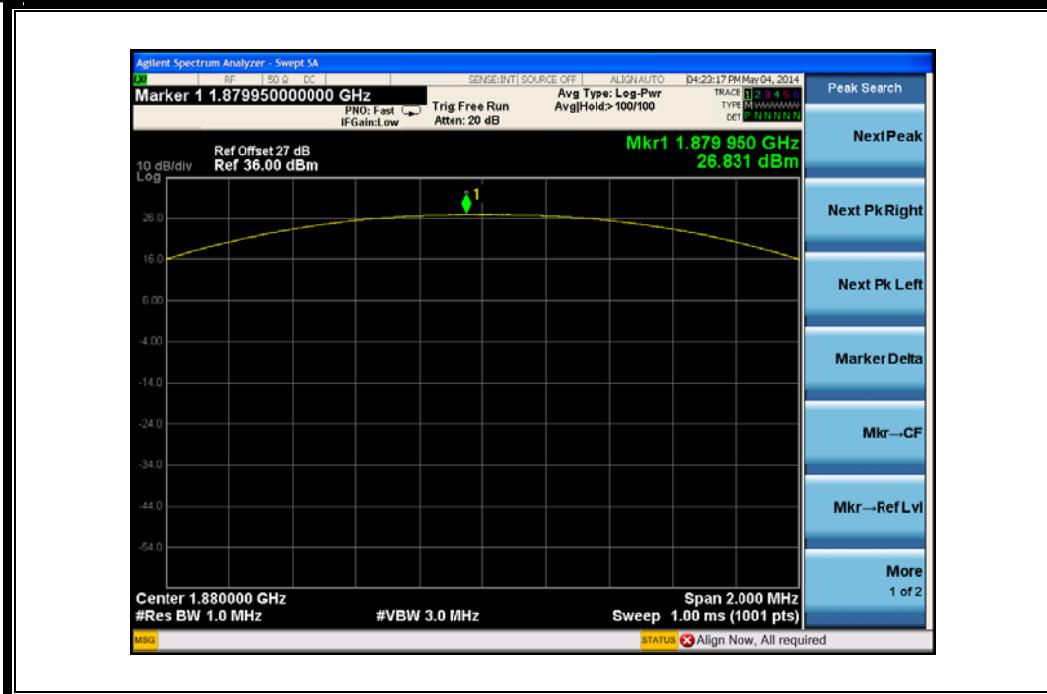
(Plot C 2: GPRS 850MHz Channel = 190)



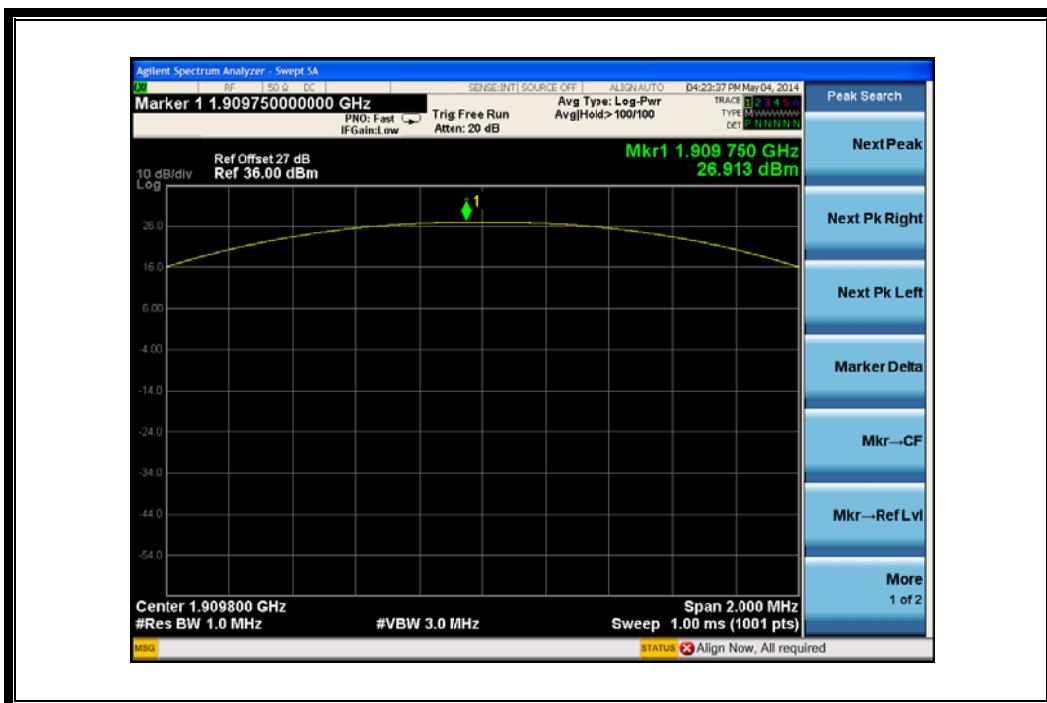
(Plot C 3: GPRS 850MHz Channel = 251)



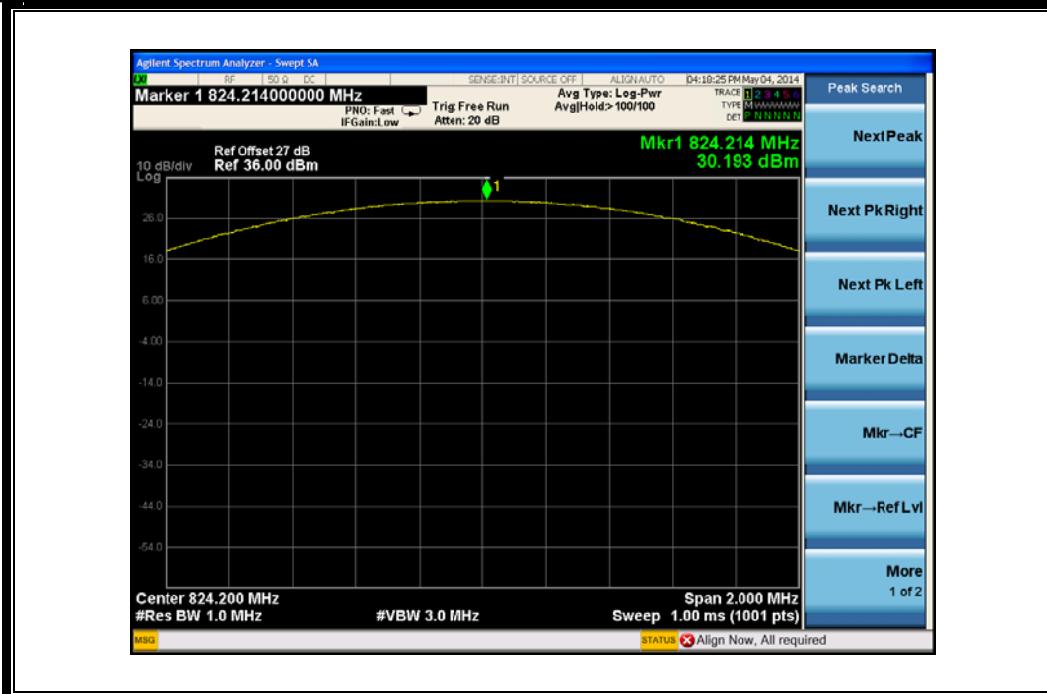
(Plot D 1: GPRS 1900MHz Channel = 512)



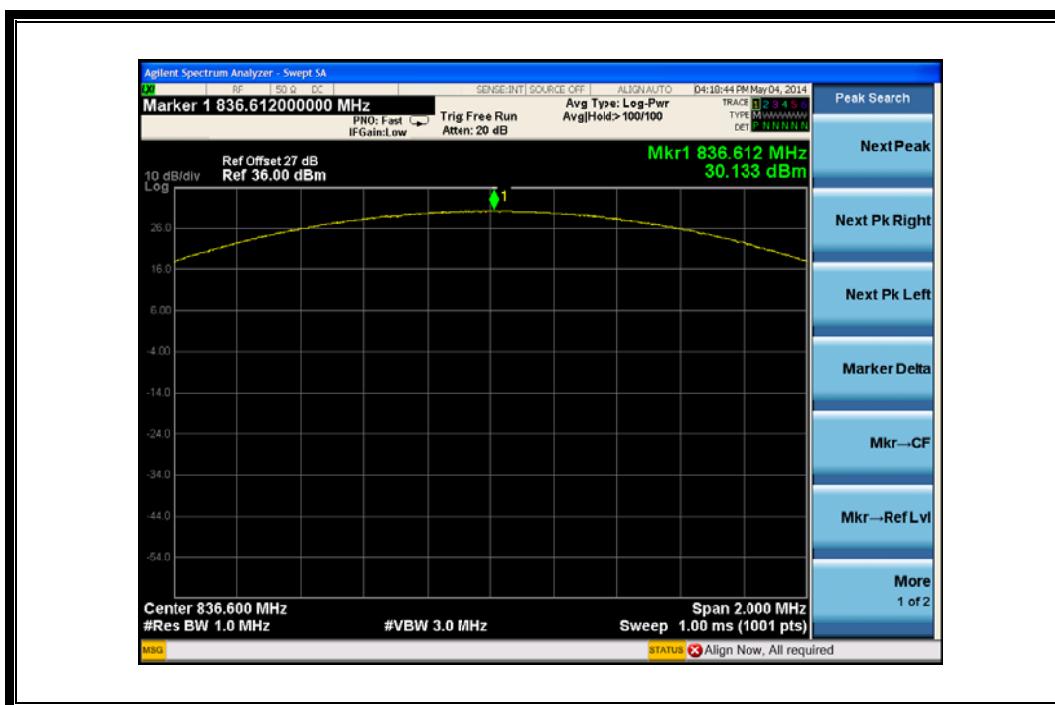
(Plot D 2: GPRS 1900MHz Channel = 661)



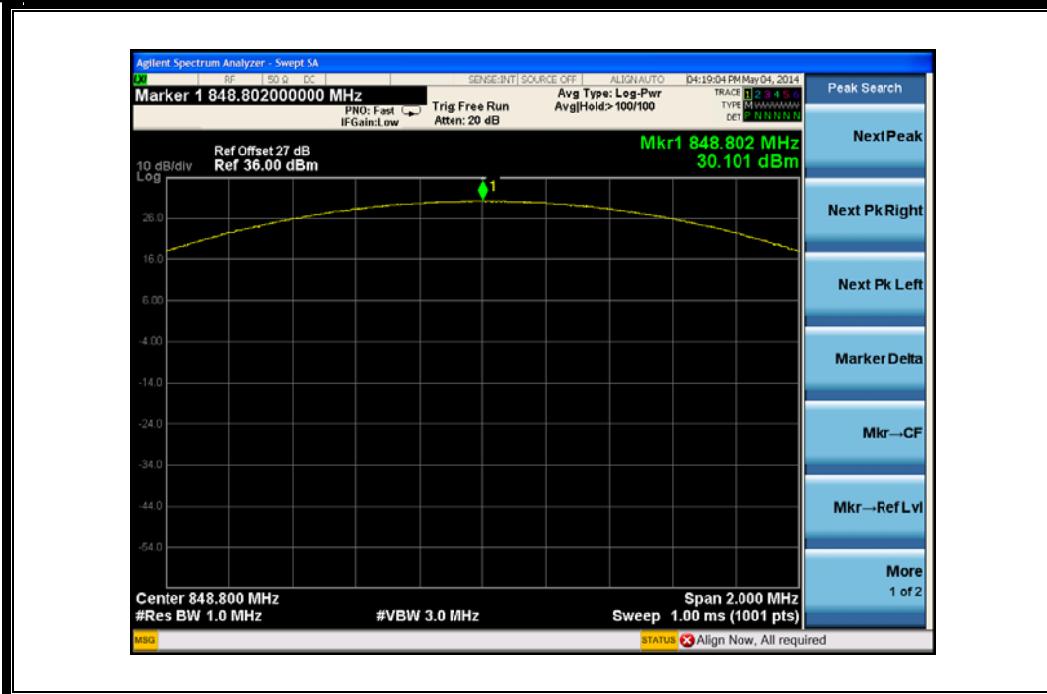
(Plot D 3: GPRS 1900MHz Channel = 810)



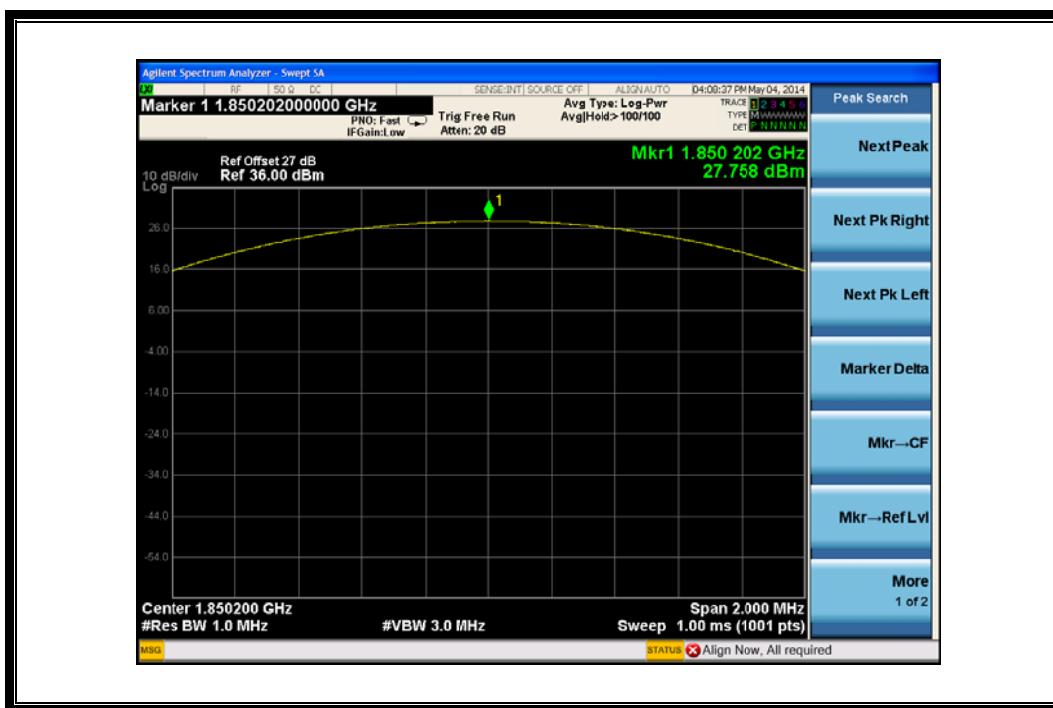
(Plot E1: EGPRS 850MHz Channel = 128)



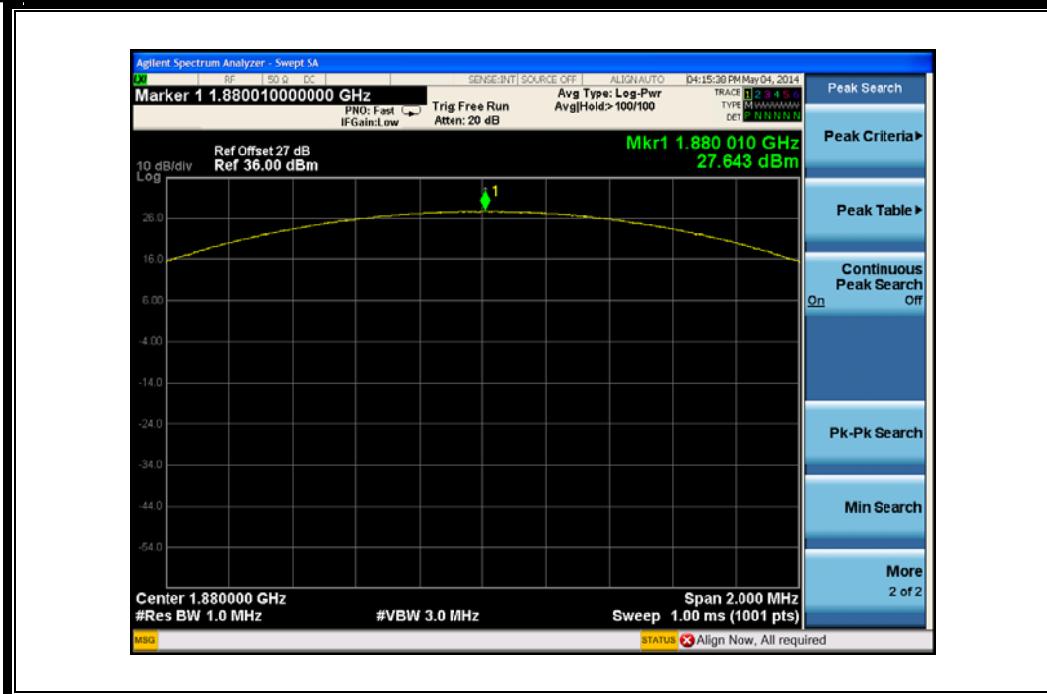
(Plot E2: EGPRS 850MHz Channel = 190)



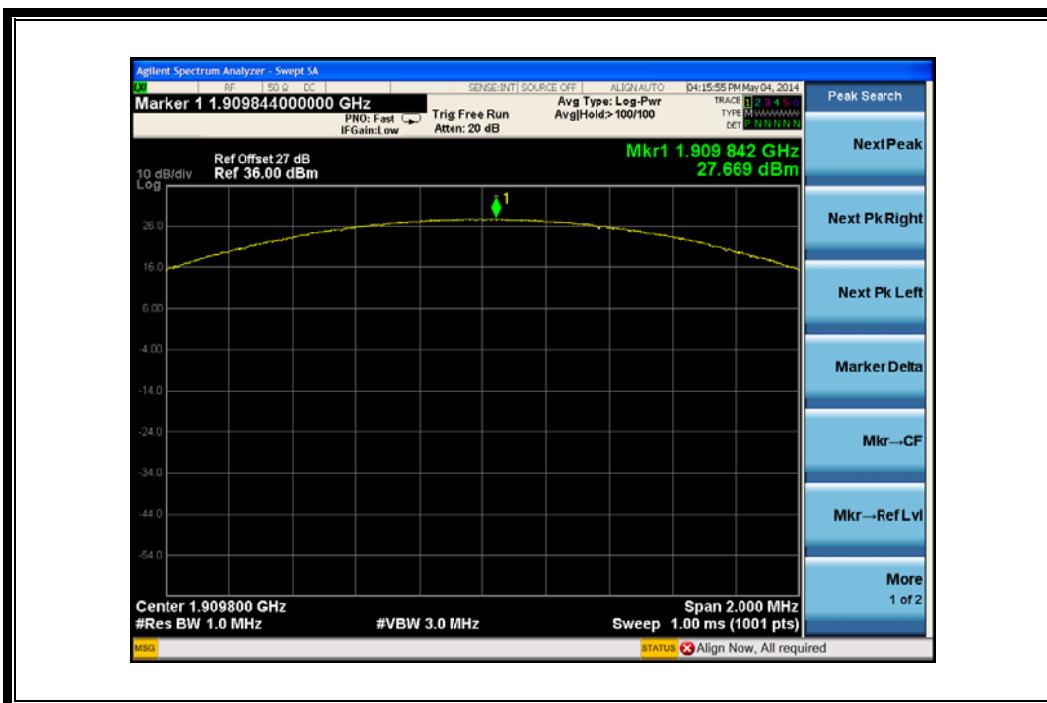
(Plot E3: EGPRS 850MHz Channel = 251)



(Plot F1:EGPRS 1900MHz Channel = 512)



(Plot F2:EGPRS 1900MHz Channel = 661)



(Plot F3:EGPRS 1900Hz Channel = 810)

## 2.2 Peak to Average Radio

### 2.2.1 Definition

According to FCC section 2.1049 and FCC 24.232(d), 27.50(d) the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### 2.2.2 Test Description

See section 2.1.2 of this report.

### 2.2.3 Test Verdict

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

Test procedures:

A .For GSM/EGPRS operating mode:

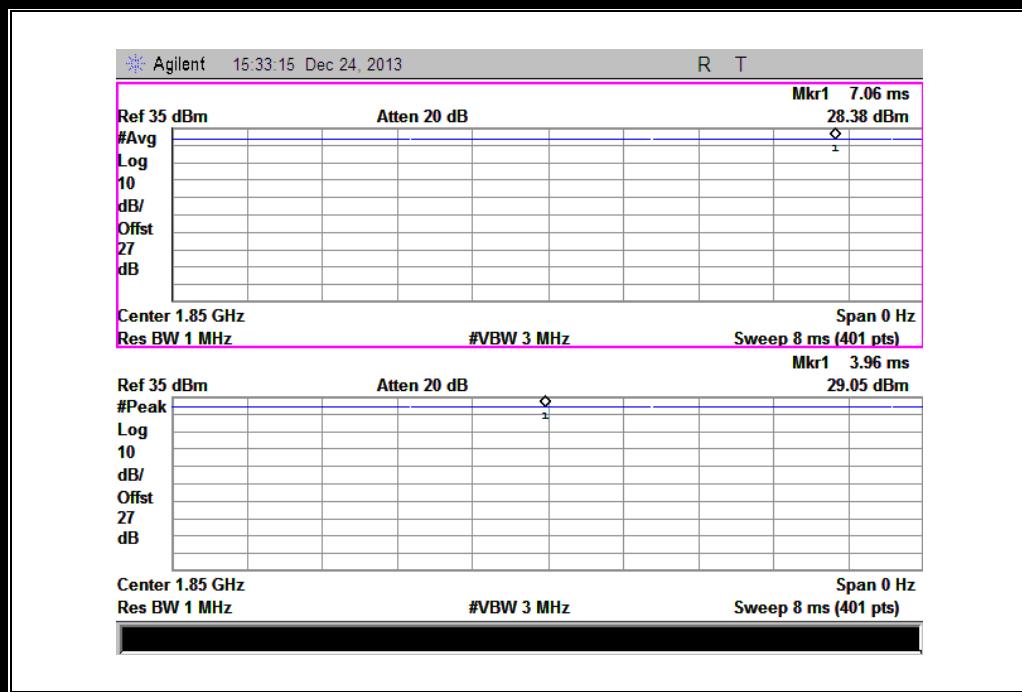
- Set RBW=1MHz, VBW=1MHz, peak detector in spectrum analyzer.
- Set EUT in maximum output power, and triggered the burst signal.
- Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average radio.

B. For UMTS operating mode:

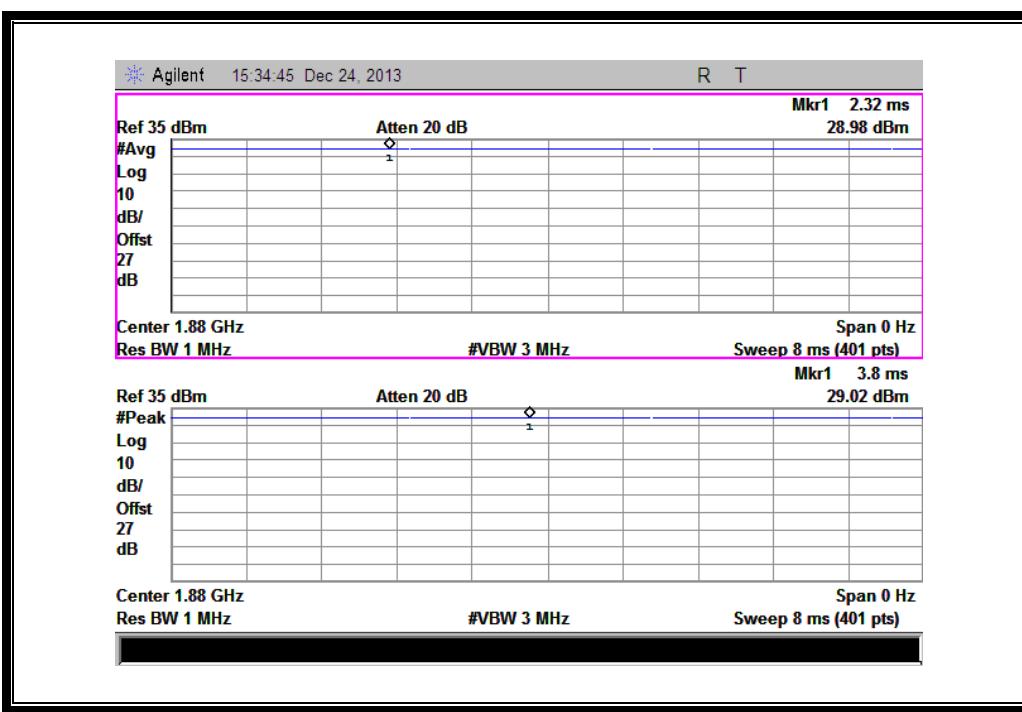
- Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.

### 1. Test Verdict:

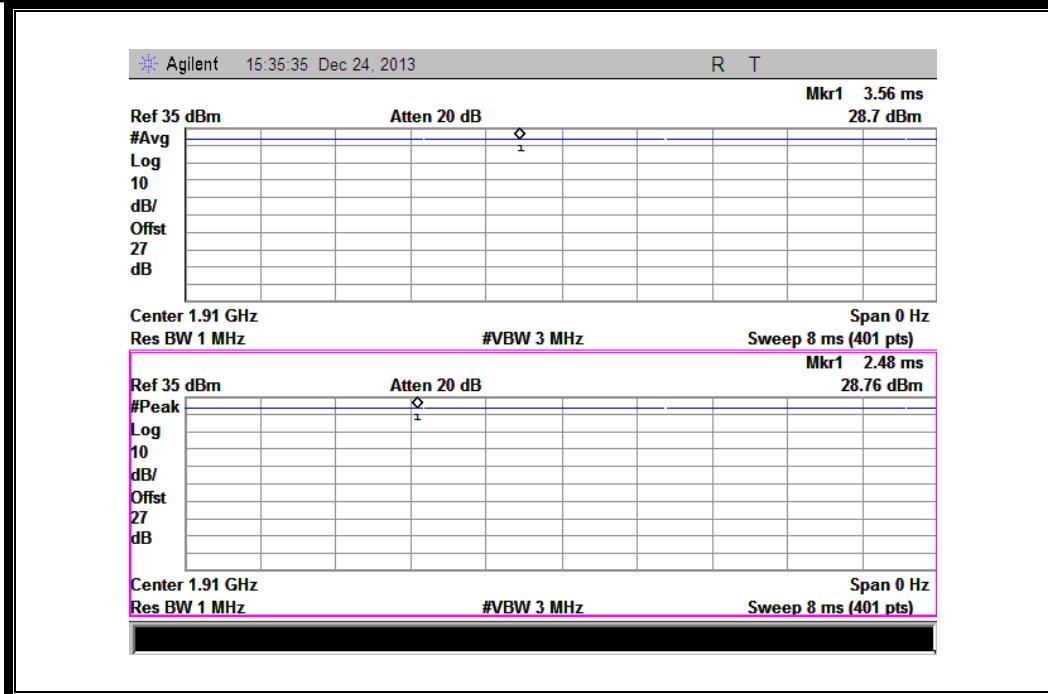
Band	Channel	Frequency (MHz)	Peak to Average radio		Limit dBm	Verdict
			dBm	Refer to Plot		
GSM 1900MHz	512	1850.2	0.67	Plot A1 to A3	13	PASS
	661	1880.0	0.04			PASS
	810	1909.8	0.06			PASS
EGPRS 1900MHz	512	1850.2	0.07	Plot B1 to B3	13	PASS
	661	1880.0	0.02			PASS
	810	1909.8	0.04			PASS
WCDMA 1900MHz	9262	1852.4	3.21	Plot C1 to C3	13	PASS
	9400	1880	3.28			PASS
	9538	1907.6	3.17			PASS
WCDMA 1700MHz	1312	1712.4	3.05	Plot D1 to D3	13	PASS
	1412	1732.4	3.04			PASS
	1513	1752.6	2.91			PASS



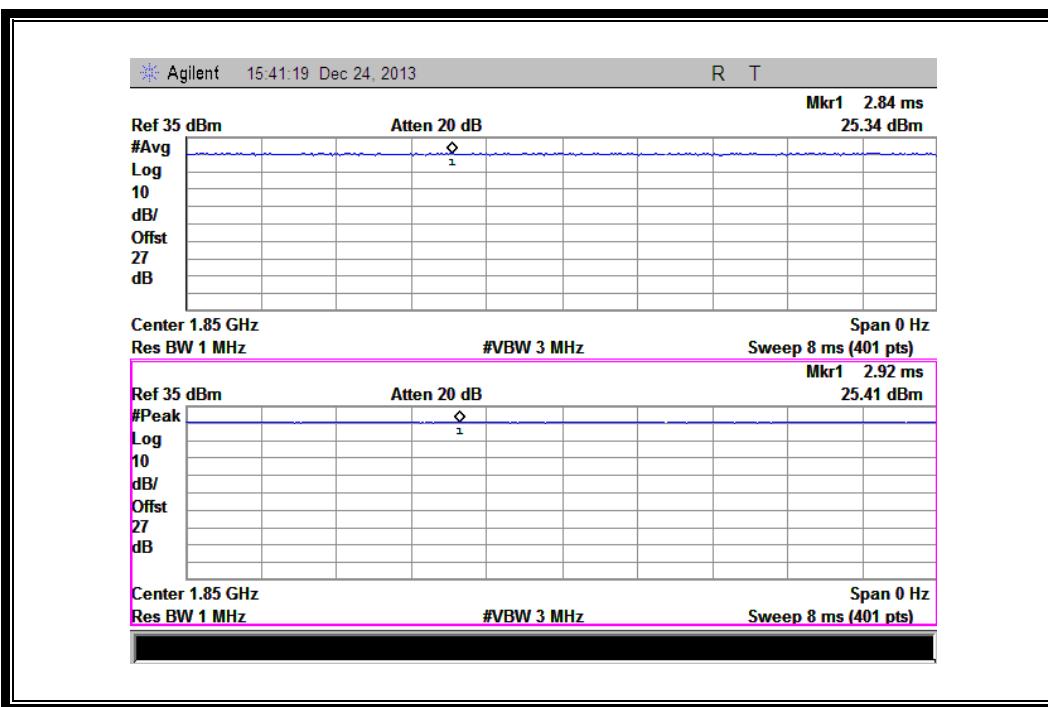
(Plot A1:GSM 1900 MHz Channel = 512)



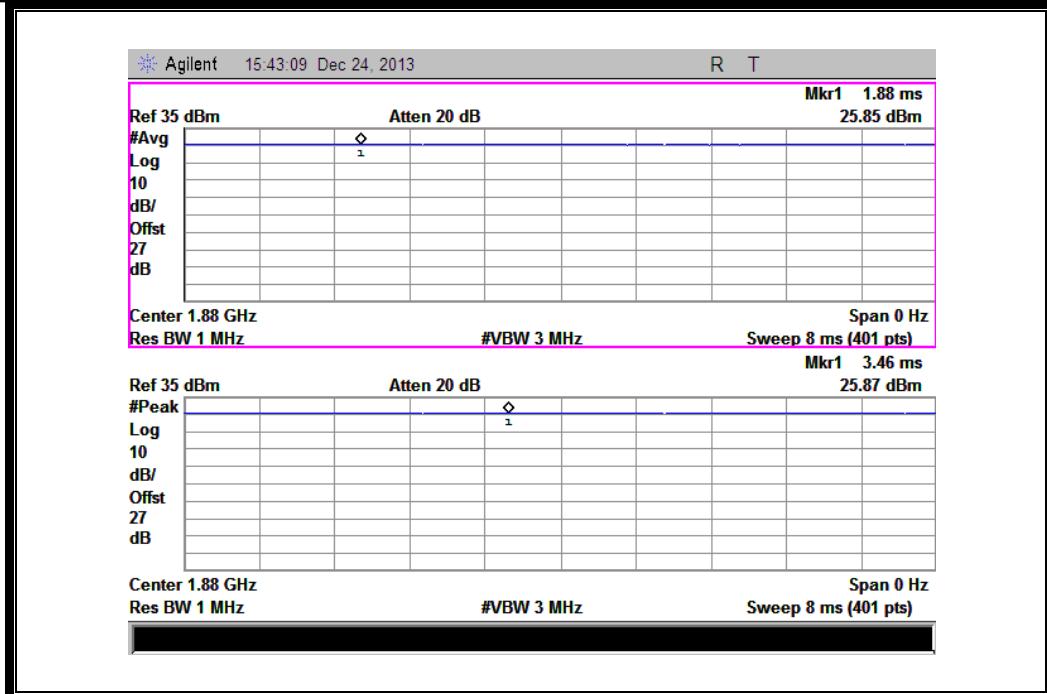
(Plot A2:GSM 1900 MHz Channel = 661)



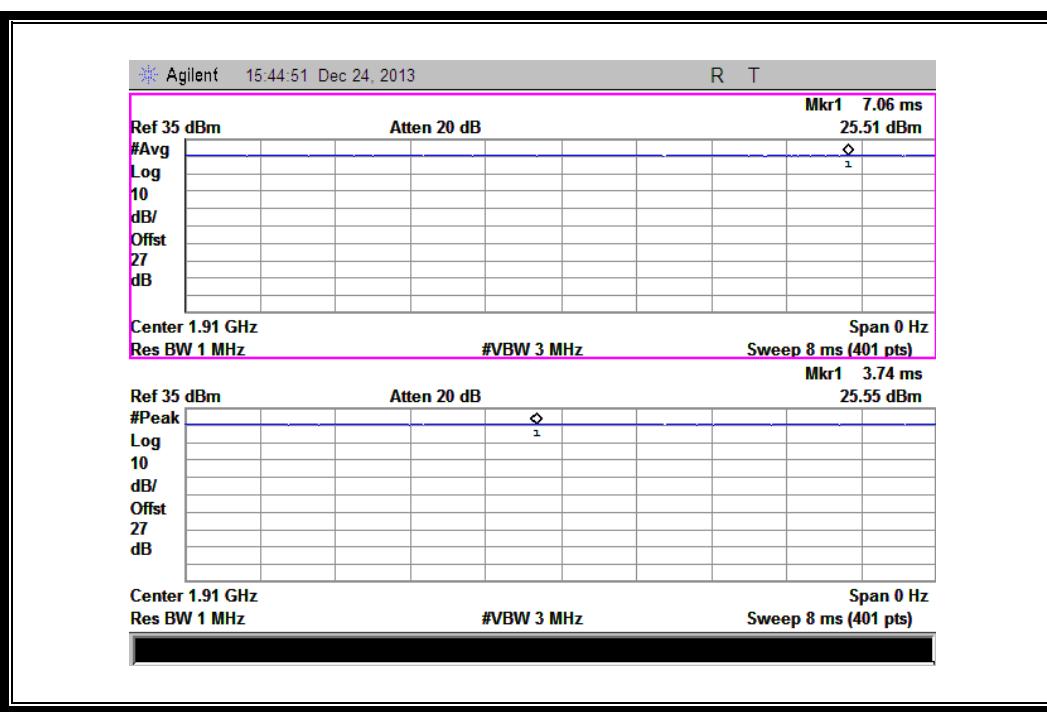
(Plot A3: GSM 1900MHz Channel = 810)



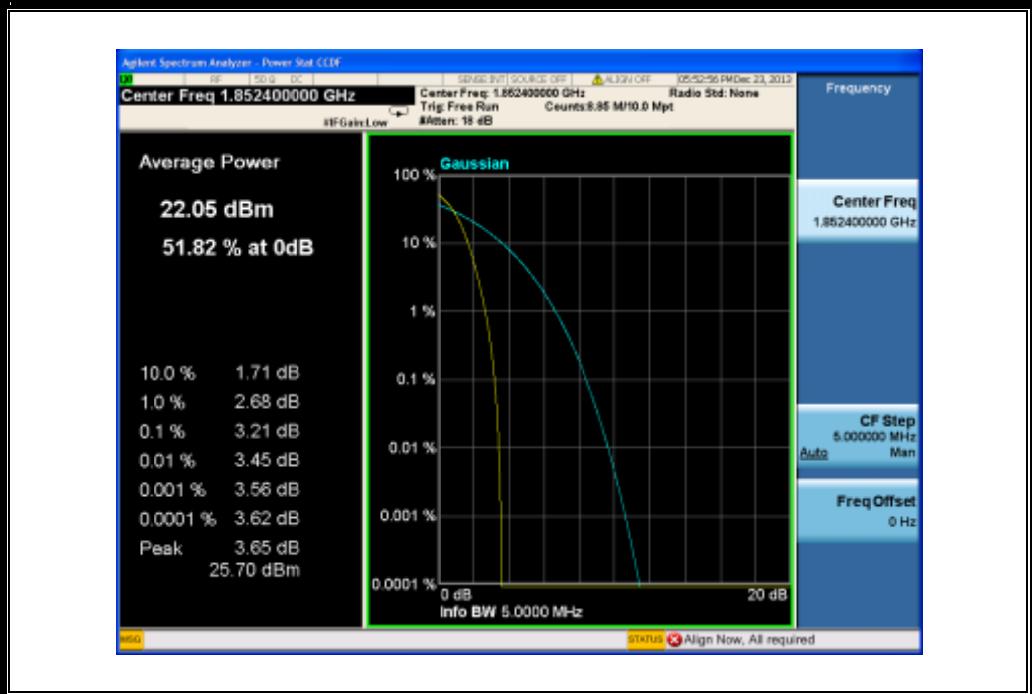
(Plot B1: EGPRS 1900MHz Channel = 512)



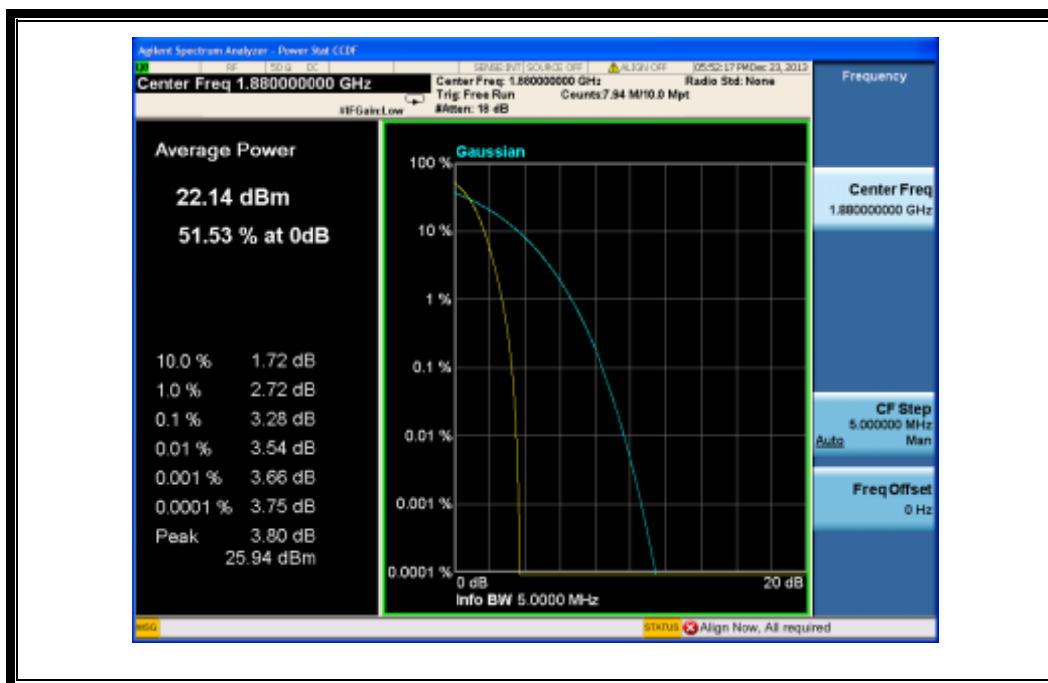
(Plot B2: EGPRS 1900MHz Channel = 661)



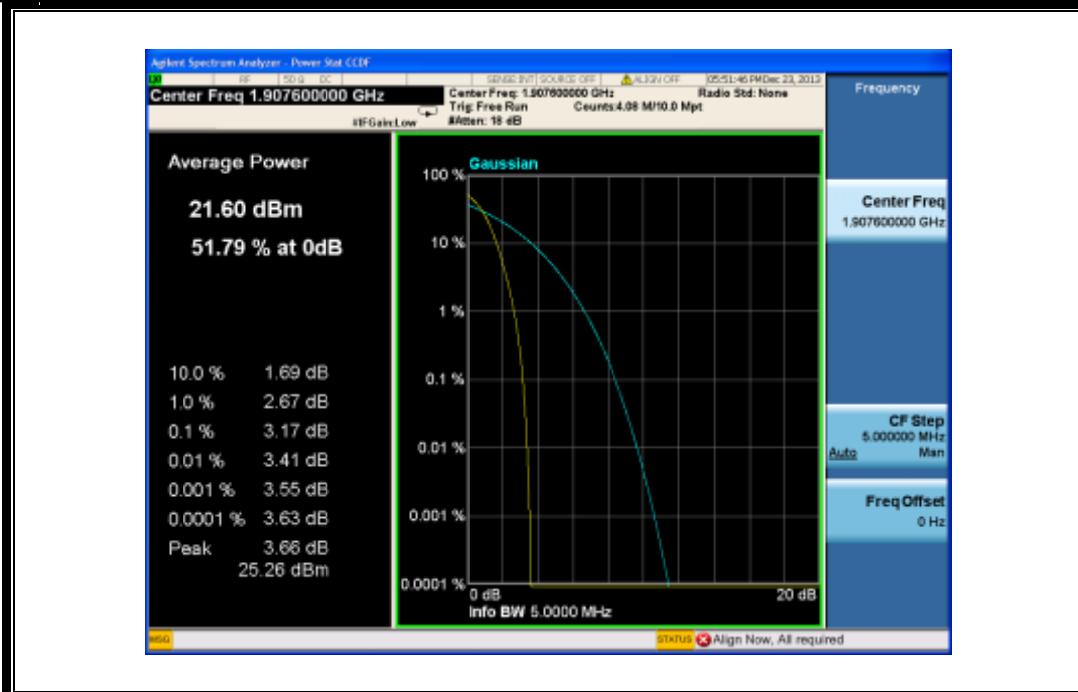
(Plot B3: EGPRS 1900MHz Channel = 810)



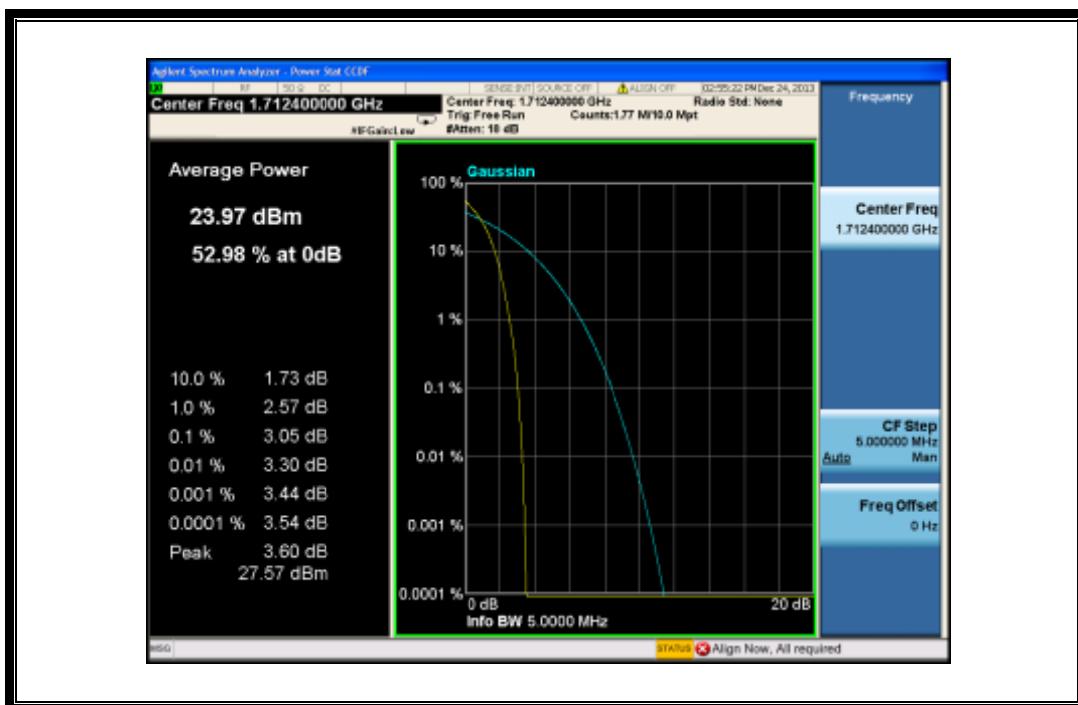
(Plot C1: WCDMA 1900MHz Channel = 9262)



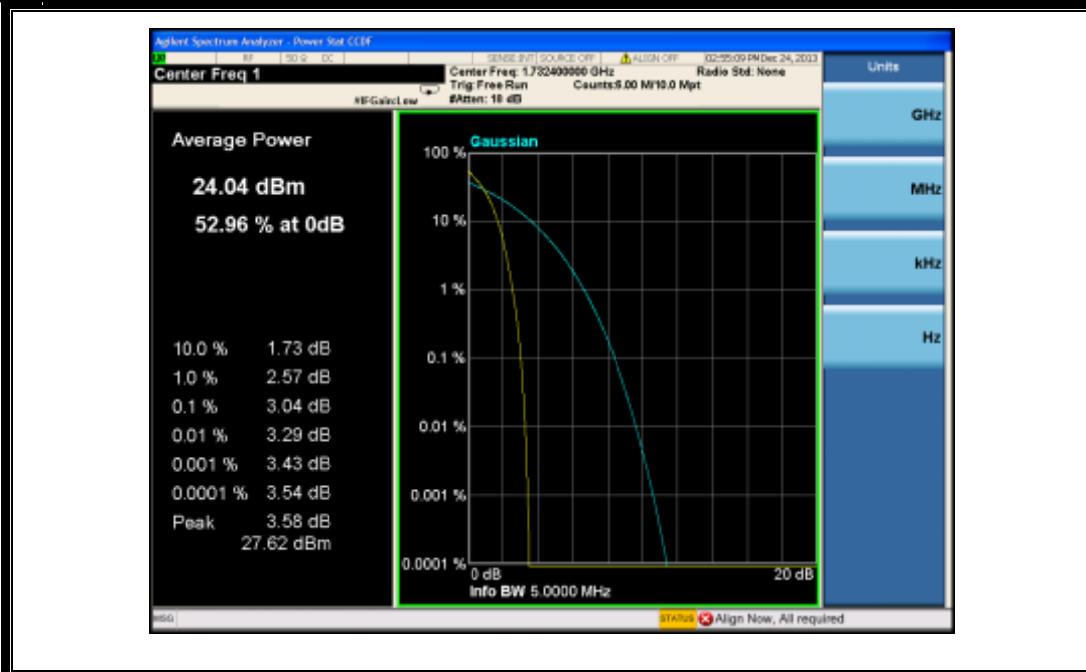
(Plot C2: WCDMA 1900MHz Channel = 9400)



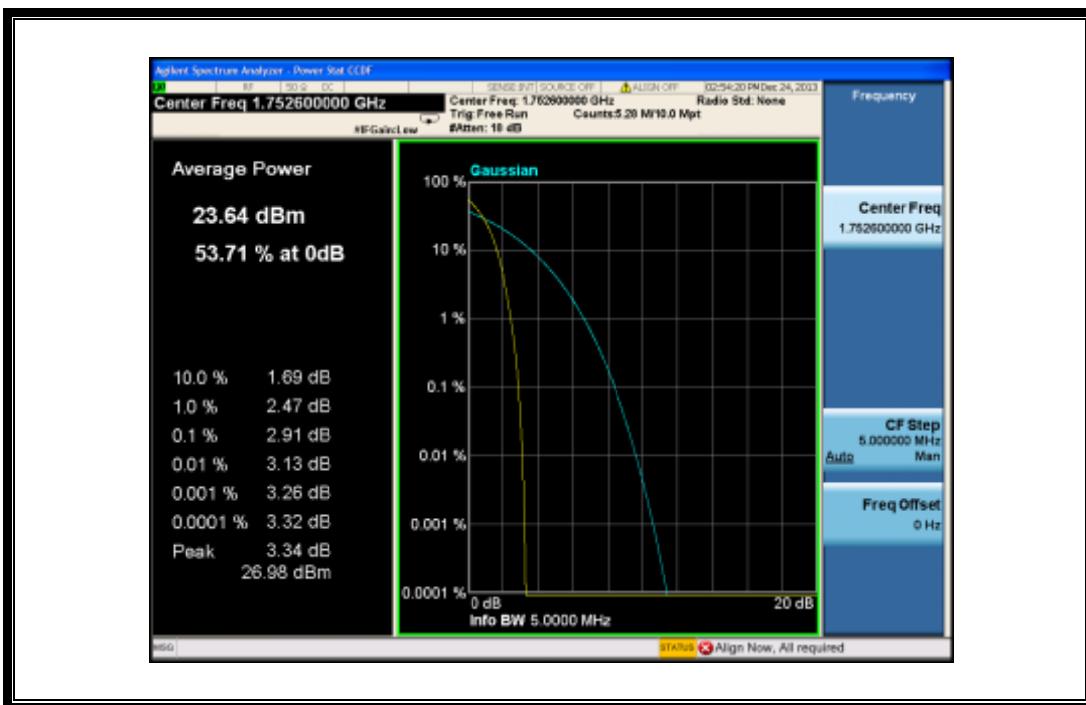
(Plot C3: WCDMA 1900MHz Channel = 9538)



(Plot D1: WCDMA 1700MHz Channel = 1312)



(Plot D2: WCDMA 1700MHz Channel = 1412)



(Plot D3: WCDMA 1700MHz Channel = 1513)

## 2.3 99% Occupied Bandwidth

### 2.3.1 Definition

According to FCC section 2.1049 and FCC § 22.917 &24.238 and 27.53(g), the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth,

### 2.3.2 Test Description

See section 2.1.2 of this report.

### 2.3.3 Test Verdict

Here the lowest, middle and highest channels are selected to perform testing to verify the 99% occupied bandwidth.

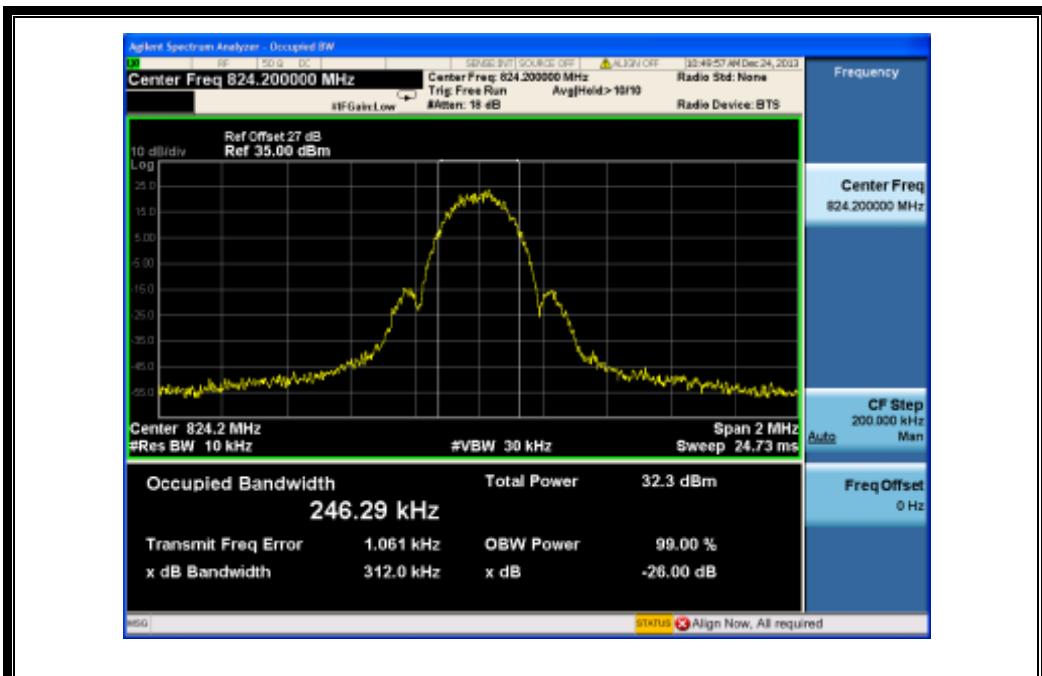
2. Test Verdict:

Band	Channel	Frequency (MHz)	26dB bandwidth	99% Occupied Bandwidth	Refer to Plot
EDGE 850MHz	128	824.2	312.0 KHz	246.29 KHz	Plot A
	190	836.6	301.5 KHz	244.91 KHz	Plot B
	251	848.8	307.4 KHz	243.99 KHz	Plot C
EDGE 1900MHz	512	1850.2	310.4 KHz	244.60 KHz	Plot D
	661	1880.0	321.0 KHz	247.65 KHz	Plot E
	810	1909.8	309.4 KHz	244.28 KHz	Plot F
WCDMA 850MHz	4132	826.4	4.616MHz	4.1635MHz	Plot G
	4175	835	4.631MHz	4.1558MHz	Plot H
	4233	846.6	4.634MHz	4.1570MHz	Plot I
WCDMA1900MHz	9262	1852.4	4.605MHz	4.1608MHz	Plot J
	9400	1880	4.589MHz	4.1603MHz	Plot K
	9538	1907.6	4.630MHz	4.1561MHz	Plot L
HSDPA 850MHz	4132	826.4	4.637MHz	4.1717MHz	Plot M
	4175	835	4.628MHz	4.1481MHz	Plot N
	4233	846.6	4.641MHz	4.1661MHz	Plot O
HSDPA 1900MHz	9262	1852.4	4.638MHz	4.1656MHz	Plot P
	9400	1880	4.615MHz	4.1617MHz	Plot Q
	9538	1907.6	4.631MHz	4.1596MHz	Plot R
HSUPA 850MHz	4132	826.4	4.643MHz	4.1628MHz	Plot S
	4175	835	4.651MHz	4.1613MHz	Plot T
	4233	846.6	4.641MHz	4.1615MHz	Plot U
HSUPA 1900MHz	9262	1852.4	4.625MHz	4.1595MHz	Plot V
	9400	1880	4.641MHz	4.1743MHz	Plot W

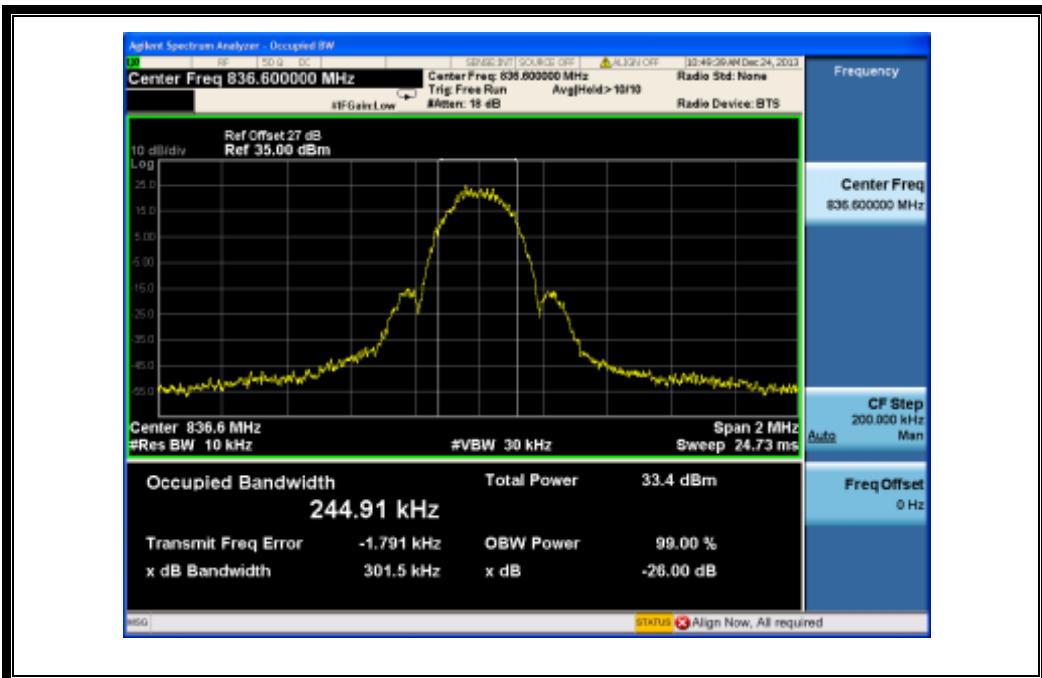


Band	Channel	Frequency (MHz)	26dB bandwidth	99% Occupied Bandwidth	Refer to Plot
HSPA+ 850MHz	9538	1907.6	4.631MHz	4.1523MHz	Plot X
	4132	826.4	4.645MHz	4.1697MHz	Plot Y
	4175	835	4.632MHz	4.1690MHz	Plot Z
	4233	846.6	4.640MHz	4.1447MHz	Plot A1
HSPA+ 1900MHz	9262	1852.4	4.641MHz	4.1666MHz	Plot B1
	9400	1880	4.635MHz	4.1587MHz	Plot C1
	9538	1907.6	4.628MHz	4.1682MHz	Plot D1
GSM 850MHz	128	824.2	318.3 KHz	245.68 KHz	Plot E1
	190	836.6	314.9 KHz	244.89 KHz	Plot F1
	251	848.8	312.6 KHz	244.01 KHz	Plot G1
GSM 1900MHz	512	1850.2	314.0 KHz	246.01 KHz	Plot H1
	661	1880.0	313.5 KHz	243.61 KHz	Plot I1
	810	1909.8	307.9 KHz	247.98 KHz	Plot J1
WCDMA 1700MHz	1312	1712.4	4.631MHz	4.1697MHz	Plot K1
	1412	1732.4	4.635MHz	4.1641MHz	Plot L1
	1513	1752.6	4.642MHz	4.1592MHz	Plot M1
HSDPA 1700MHz	1312	1712.4	4.639MHz	4.1669MHz	Plot N1
	1412	1732.4	4.622MHz	4.1634MHz	Plot O1
	1513	1752.6	4.632MHz	4.1596MHz	Plot P1
HSUPA 1700MHz	1312	1712.4	4.637MHz	4.1661MHz	Plot Q1
	1412	1732.4	4.633MHz	4.1609MHz	Plot R1
	1513	1752.6	4.630MHz	4.1567MHz	Plot S1
HSPA+ 1700MHz	1312	1712.4	4.625MHz	4.1621MHz	Plot T1
	1412	1732.4	4.625MHz	4.1794MHz	Plot U1
	1513	1752.6	4.646MHz	4.1591MHz	Plot V1
GPRS 850MHz	128	824.2	316.6 KHz	246.67 KHz	Plot W1
	190	836.6	308.8 KHz	246.38 KHz	Plot X1
	251	848.8	316.6 KHz	246.26 KHz	Plot Y1
GPRS 1900MHz	512	1850.2	314.0 KHz	248.12 KHz	Plot Z1
	661	1880.0	306.2 KHz	239.82 KHz	Plot A2
	810	1909.8	312.3 KHz	239.30 KHz	Plot B2

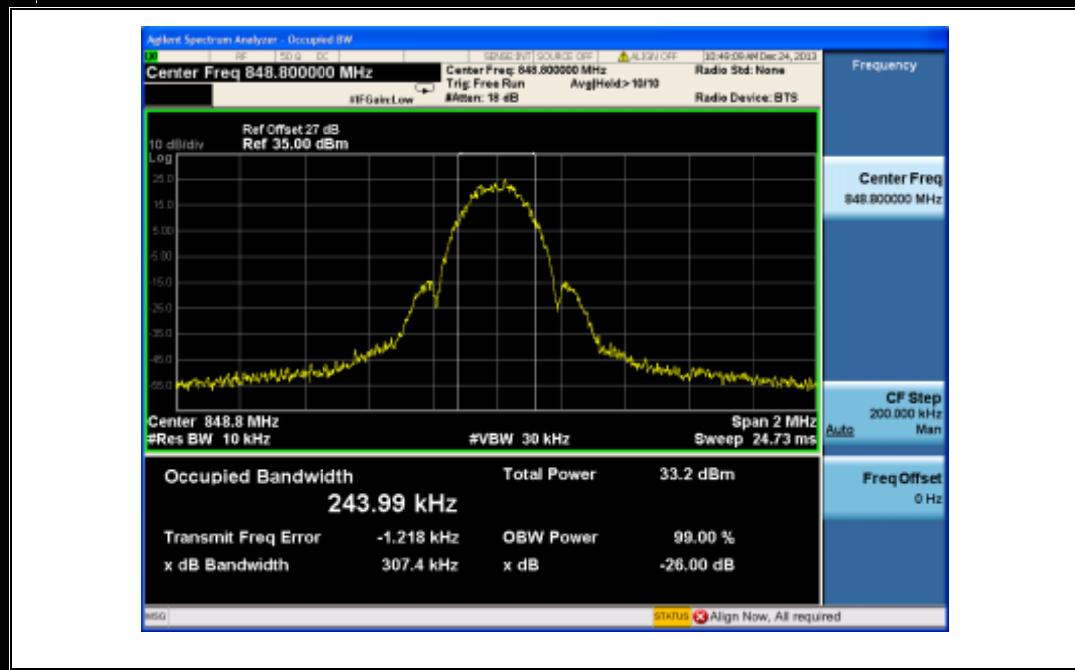
## 3. Test Plots:



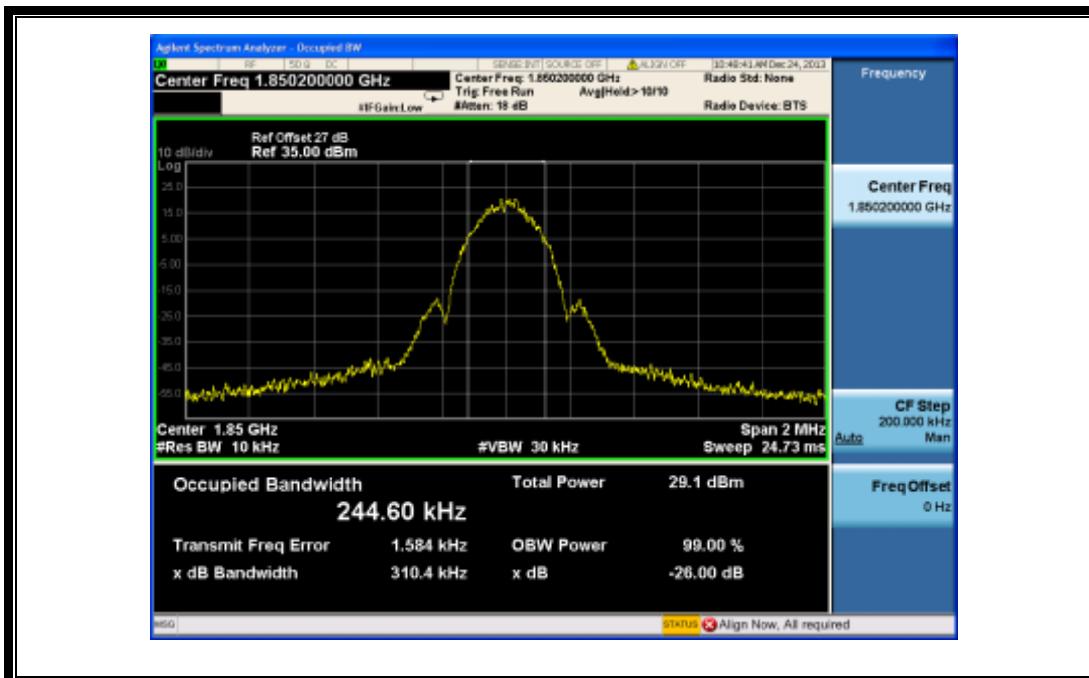
(Plot A: EGPRS 850MHz Channel = 128)



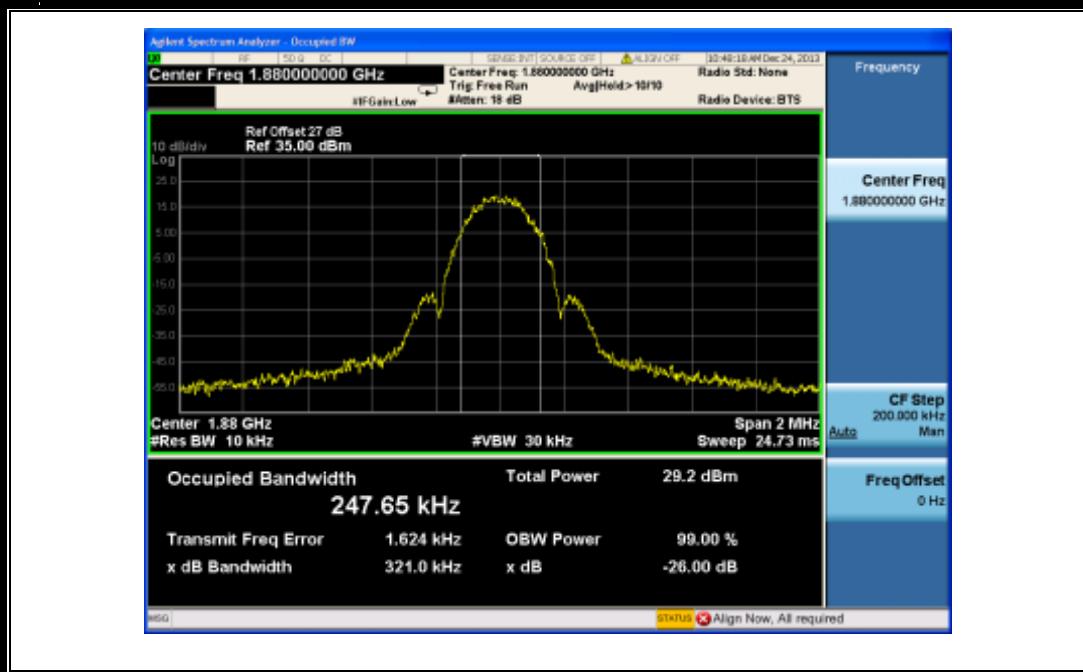
(Plot B: EGPRS 850MHz Channel = 190)



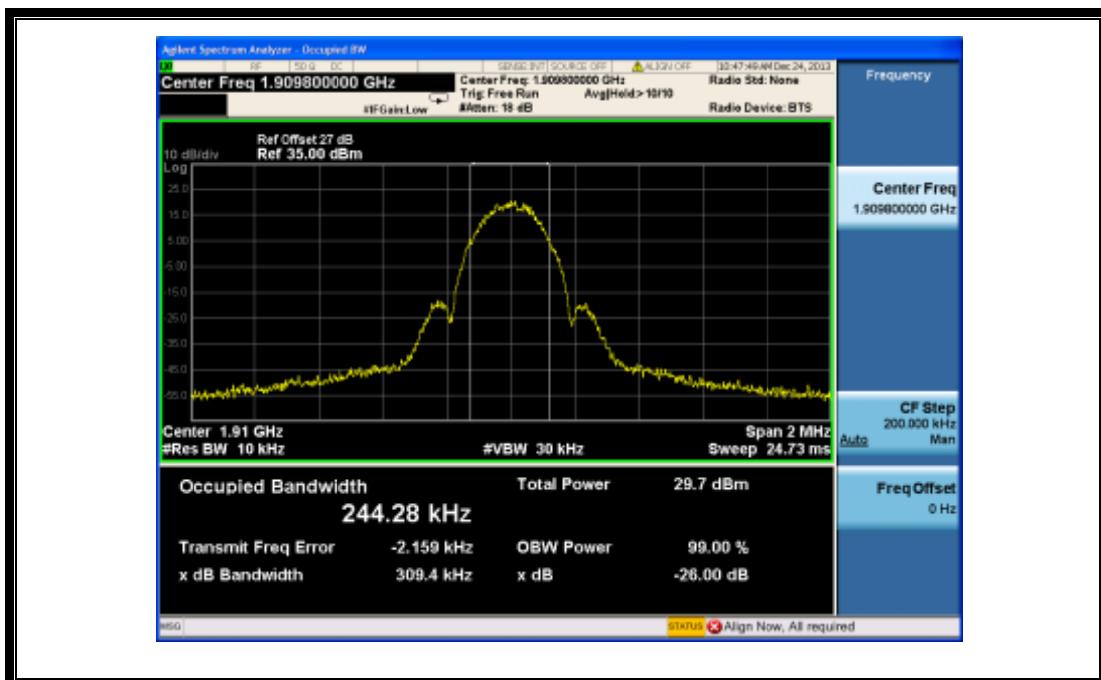
(Plot C: EGPRS 850MHz Channel = 251)



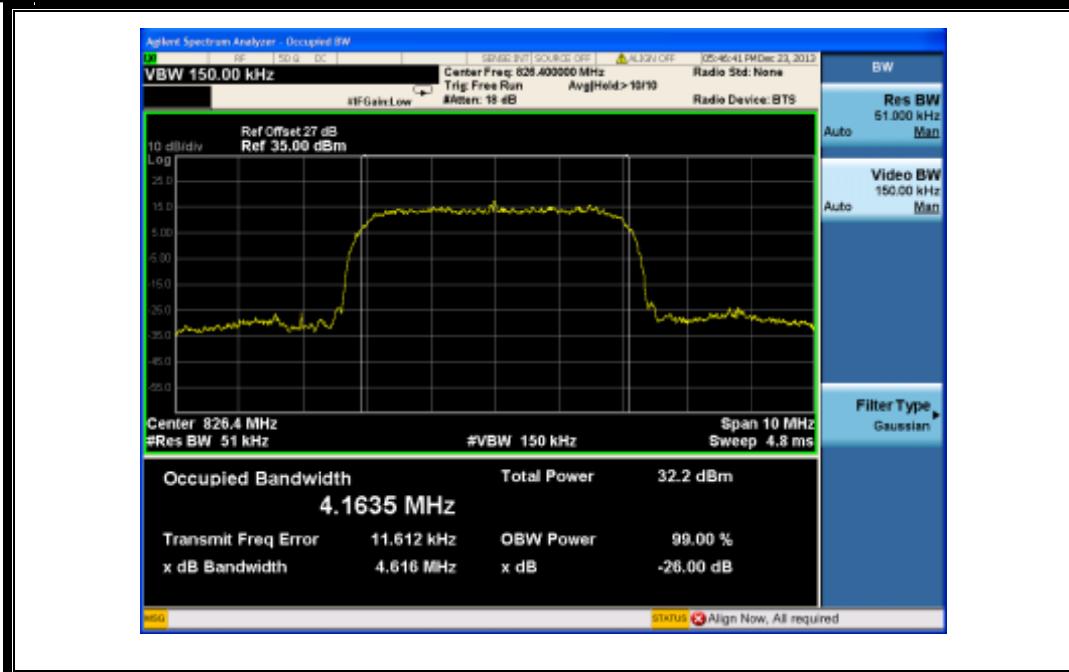
(Plot D: EGPRS1900MHz Channel = 512)



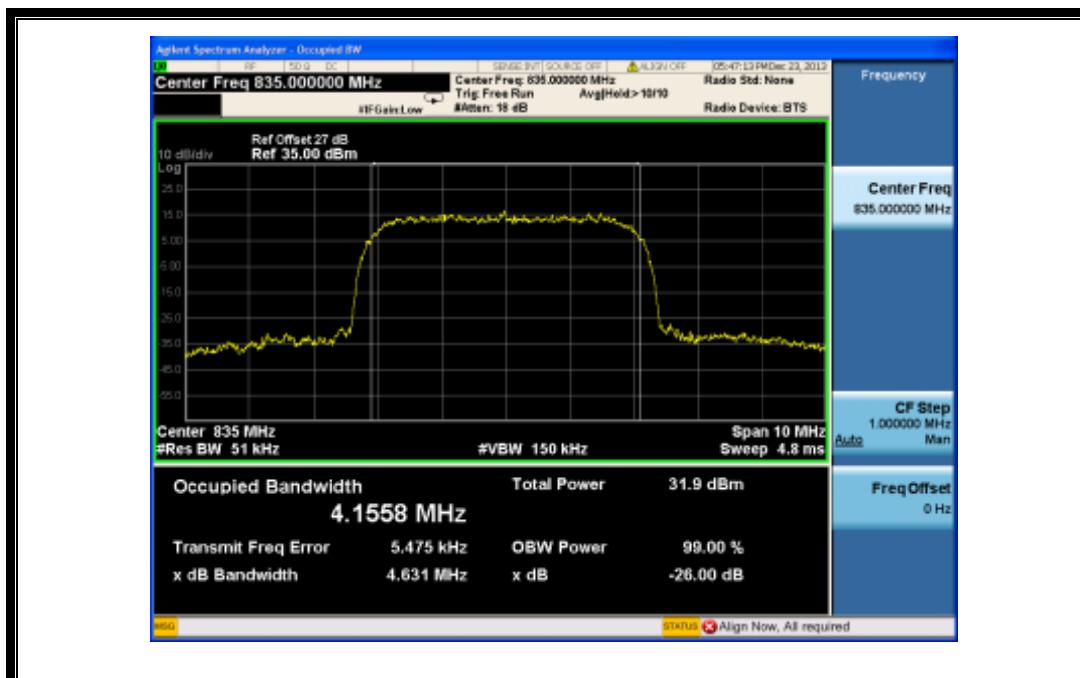
(Plot E: EGPRS1900MHz Channel = 661)



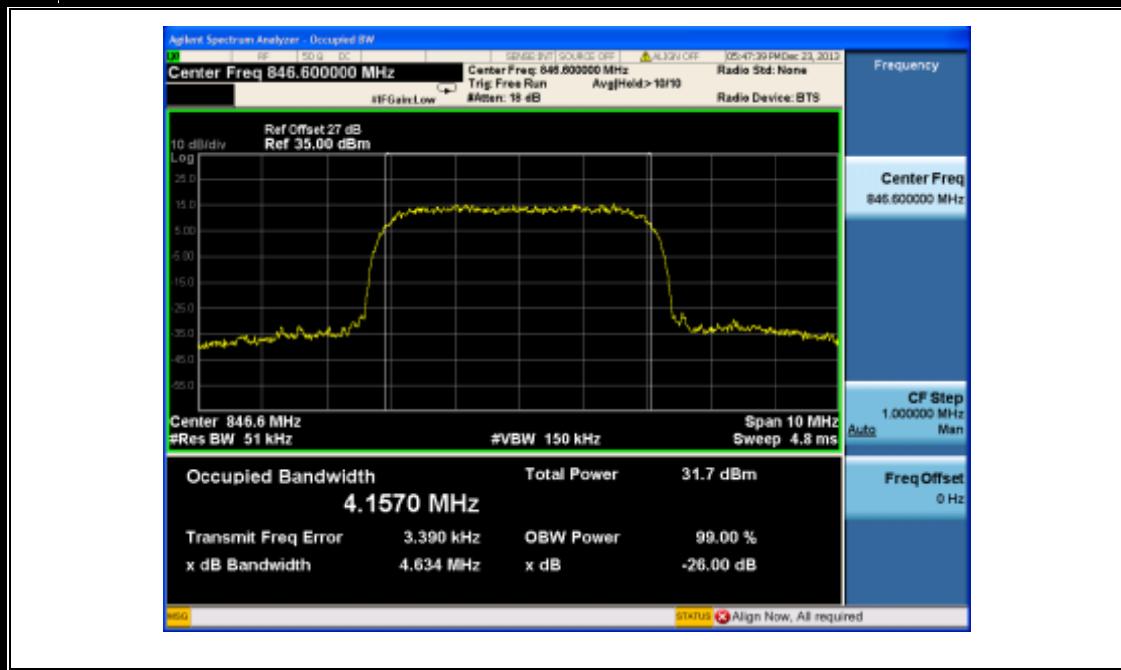
(Plot F: EGPRS 1900MHz Channel = 810)



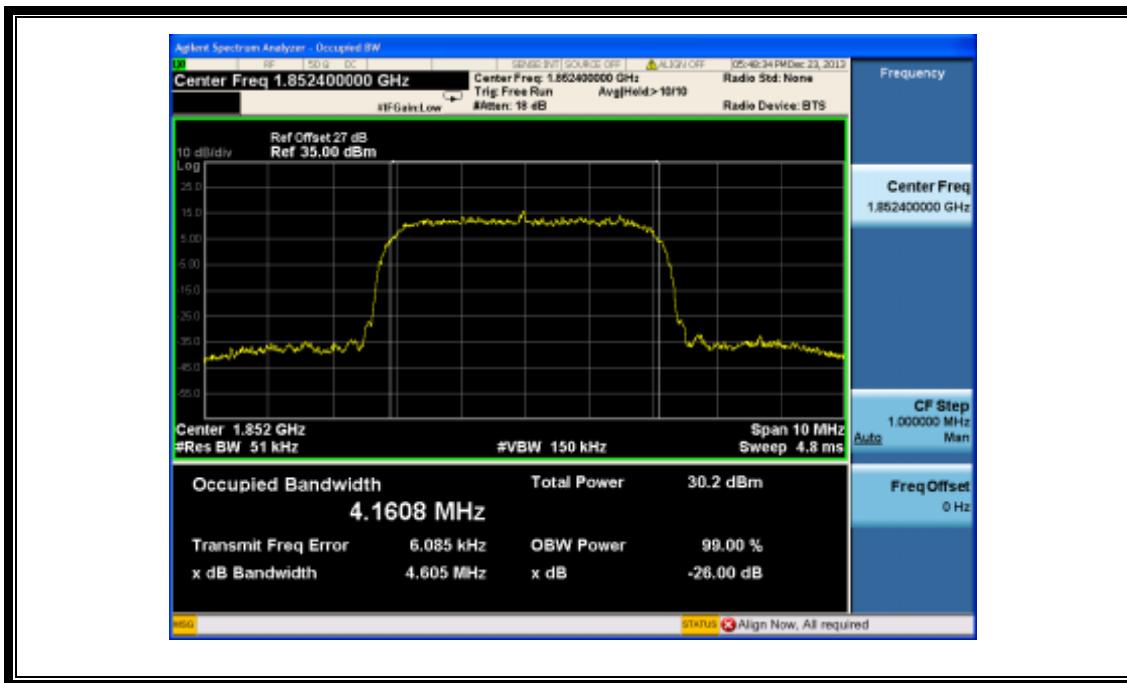
(Plot G: WCDMA 850MHz Channel = 4132)



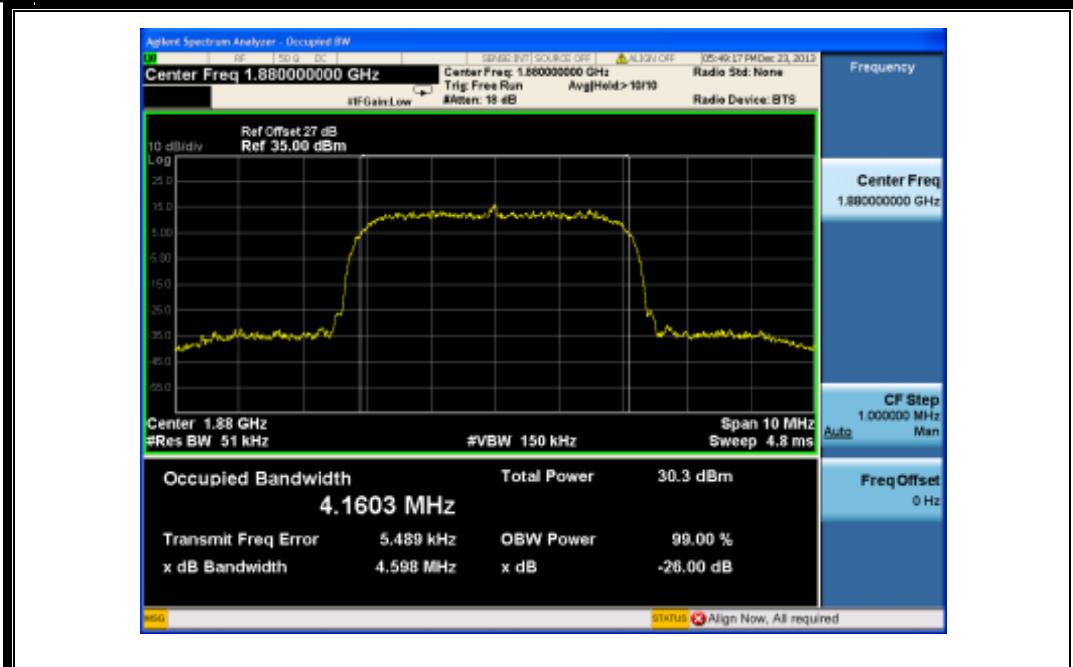
(Plot H: WCDMA 850 MHz Channel = 4175)



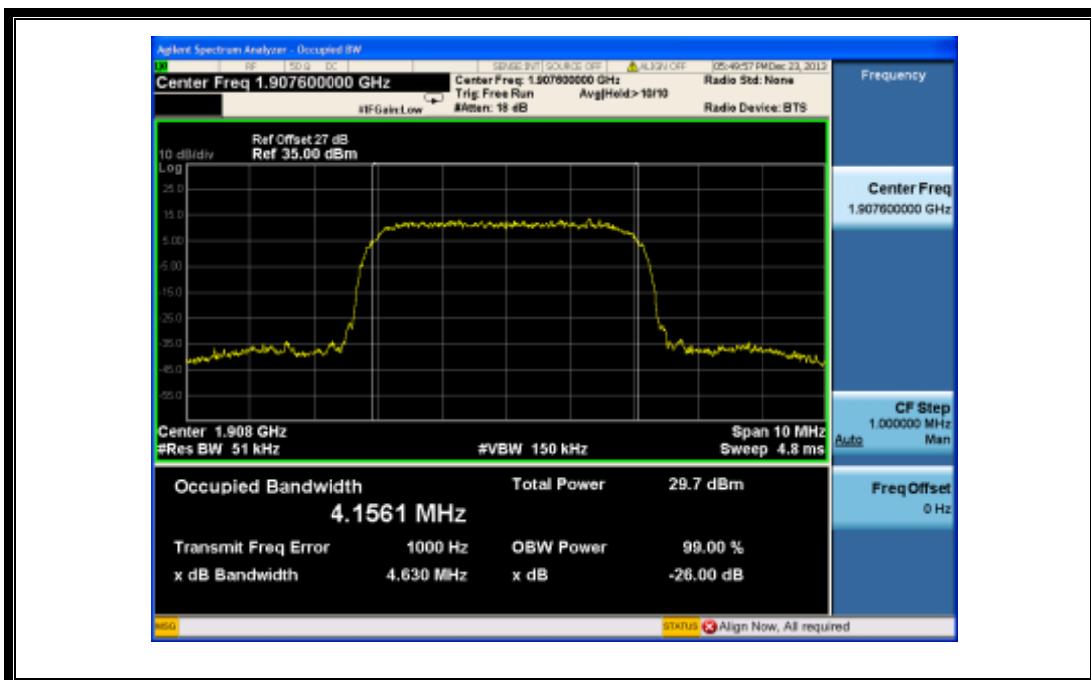
(Plot I: WCDMA 850MHz Channel = 4233)



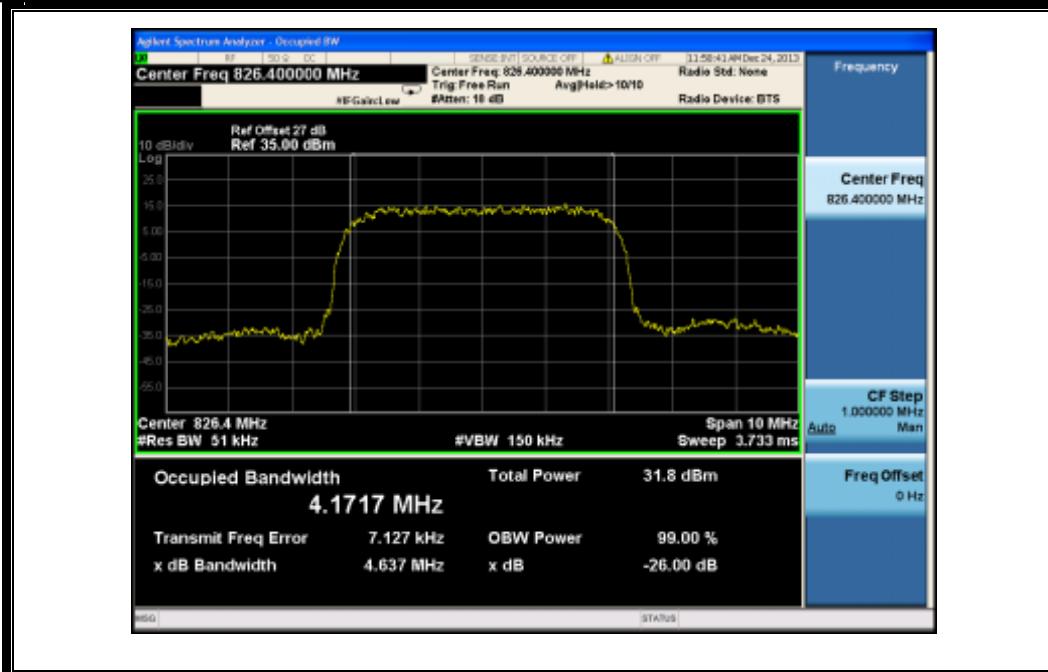
(Plot J: WCDMA 1900MHz Channel = 9262)



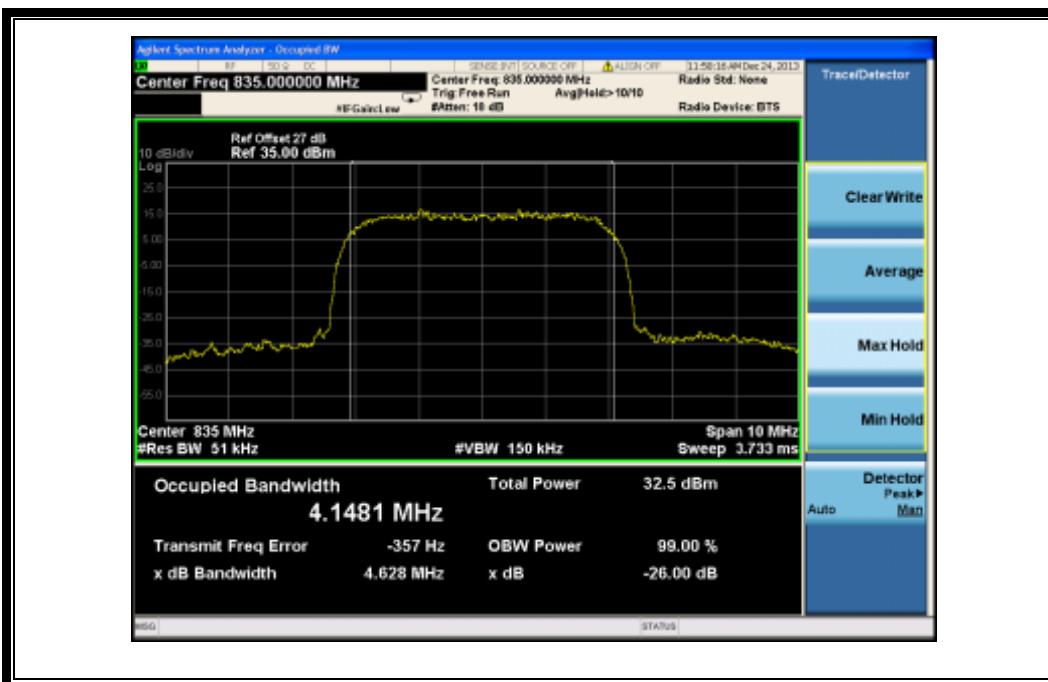
(Plot K: WCDMA 1900 MHz Channel = 9400)



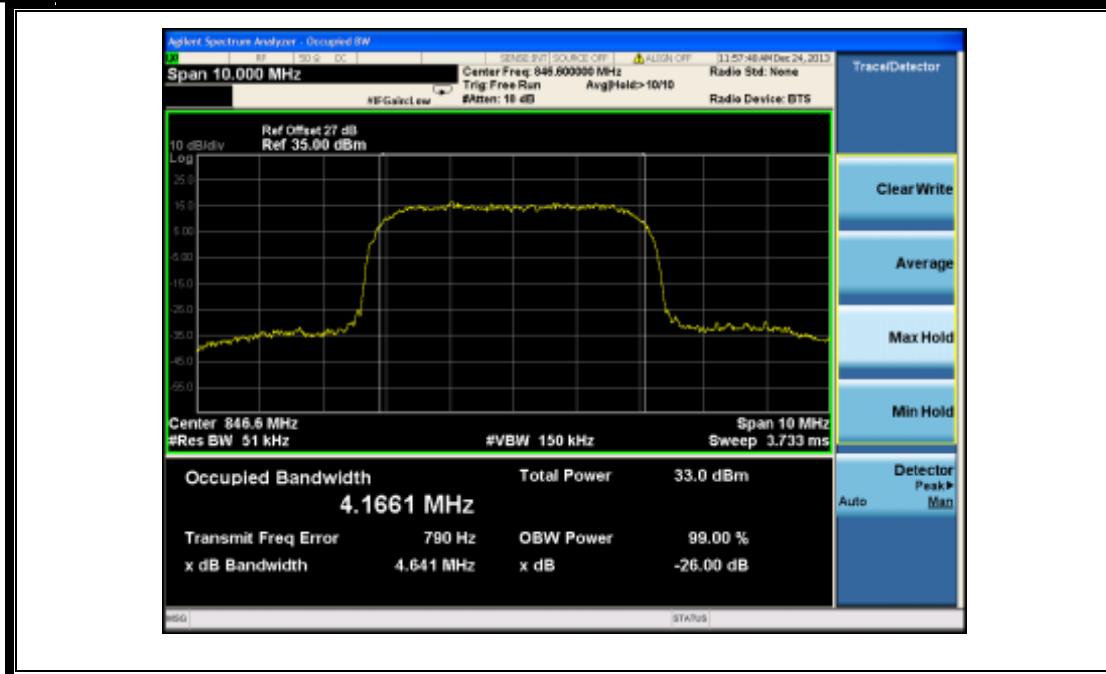
(Plot L: WCDMA1900MHz Channel = 9538)



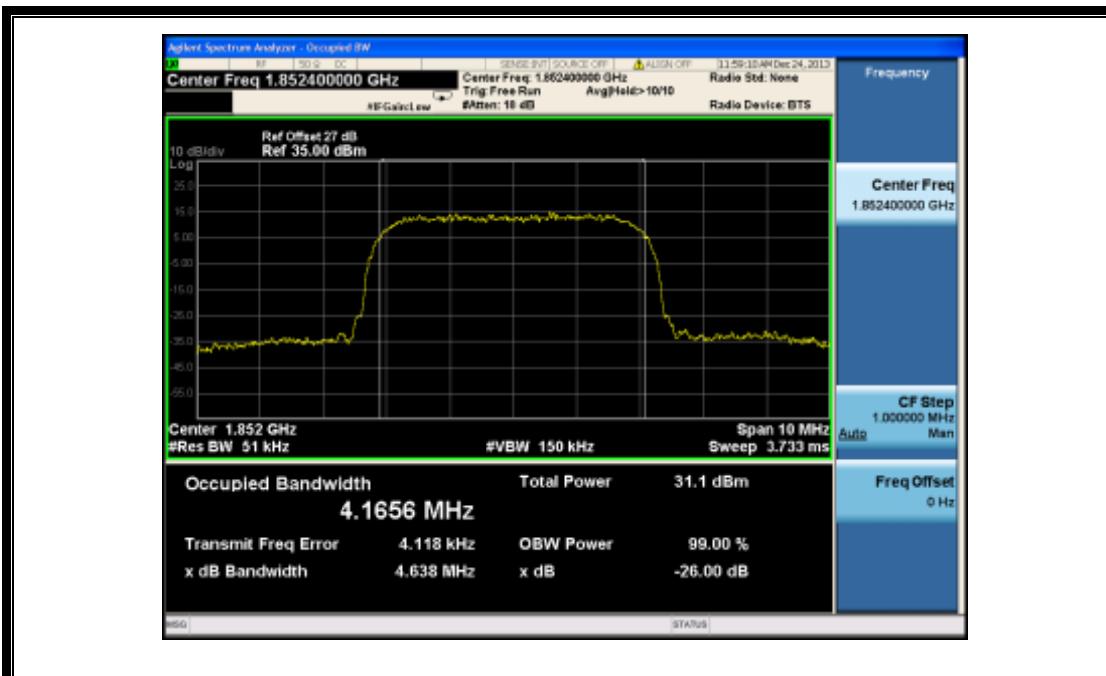
(Plot M: HSDPA 850MHz Channel = 4132)



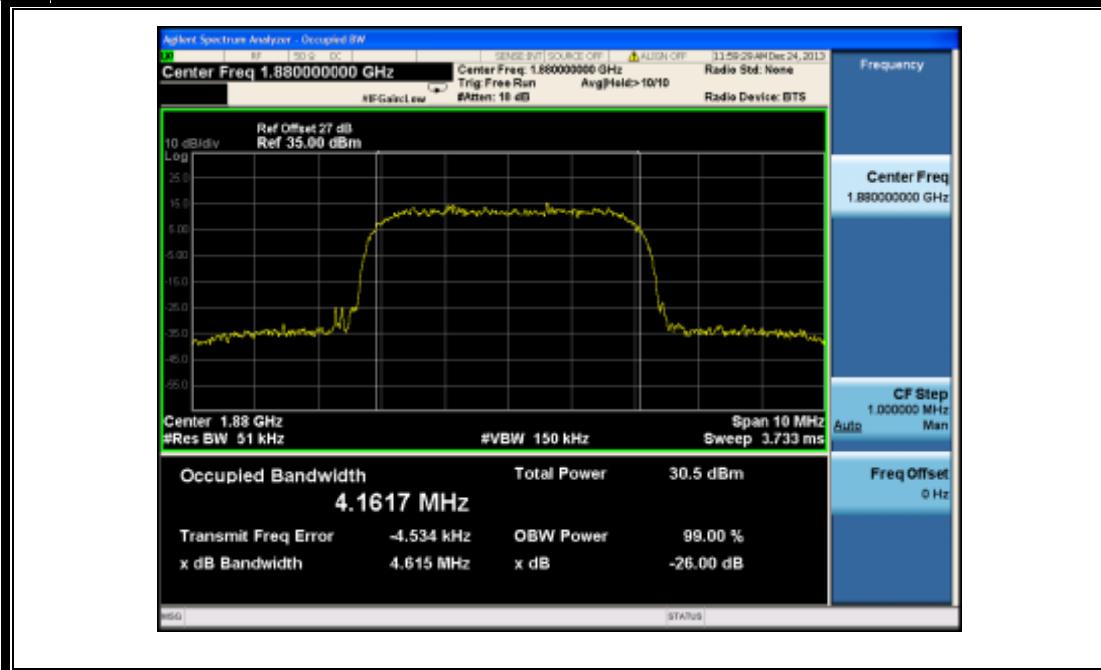
(Plot N: HSDPA850 MHz Channel = 4175)



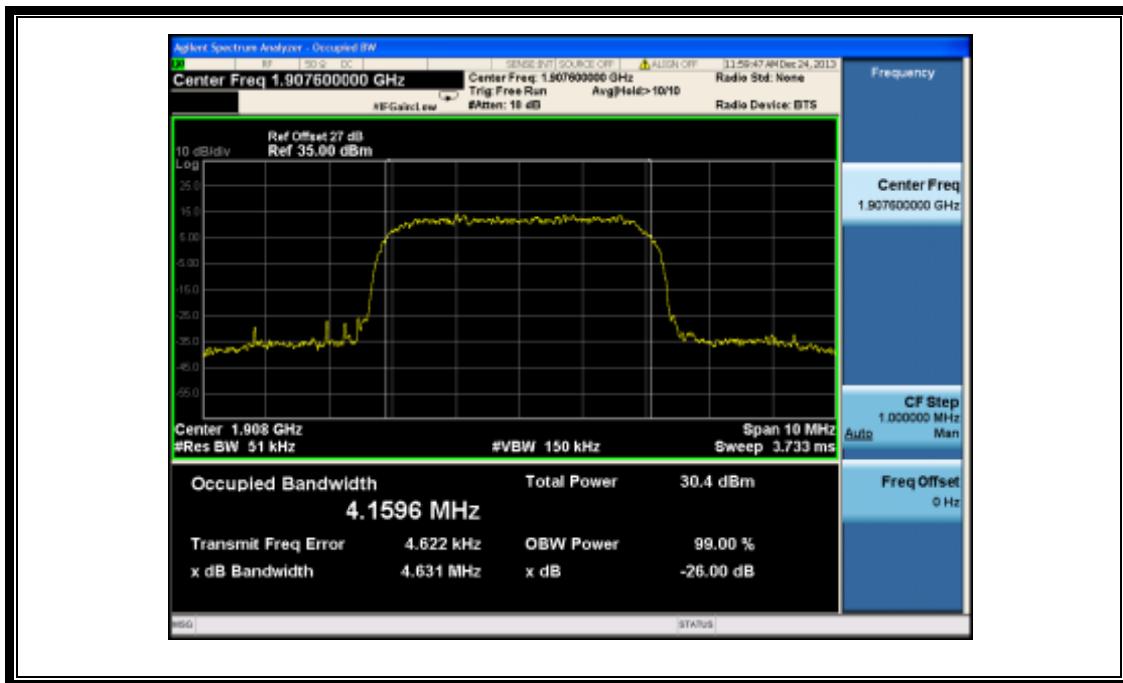
(Plot O: HSDPA 850 MHz Channel = 4233)



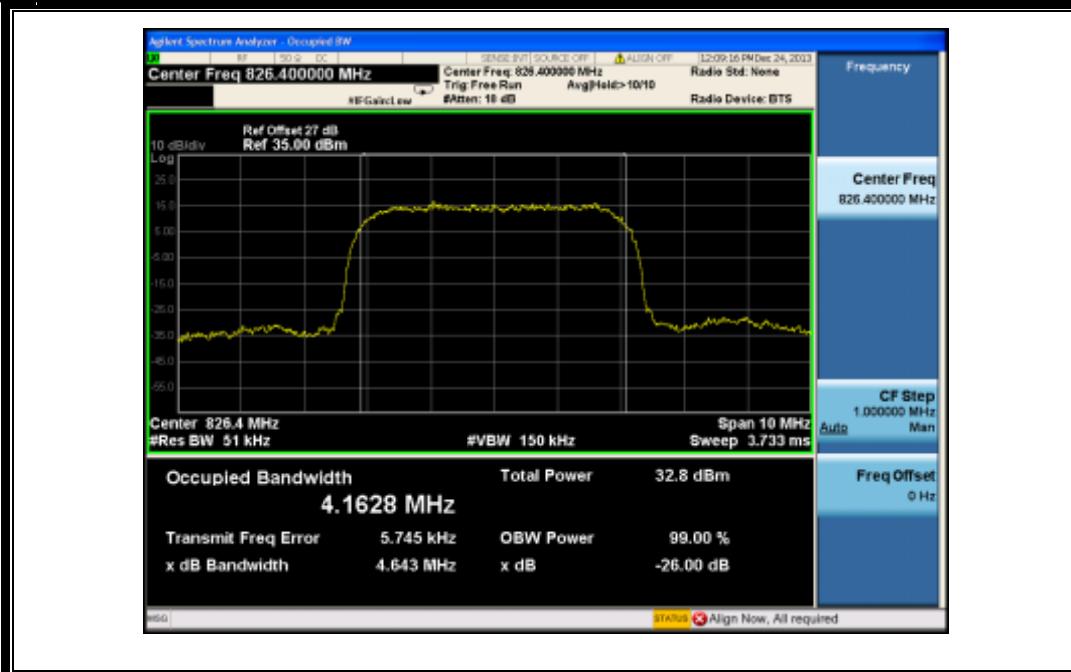
(Plot P: HSDPA1900 MHz Channel = 9262)



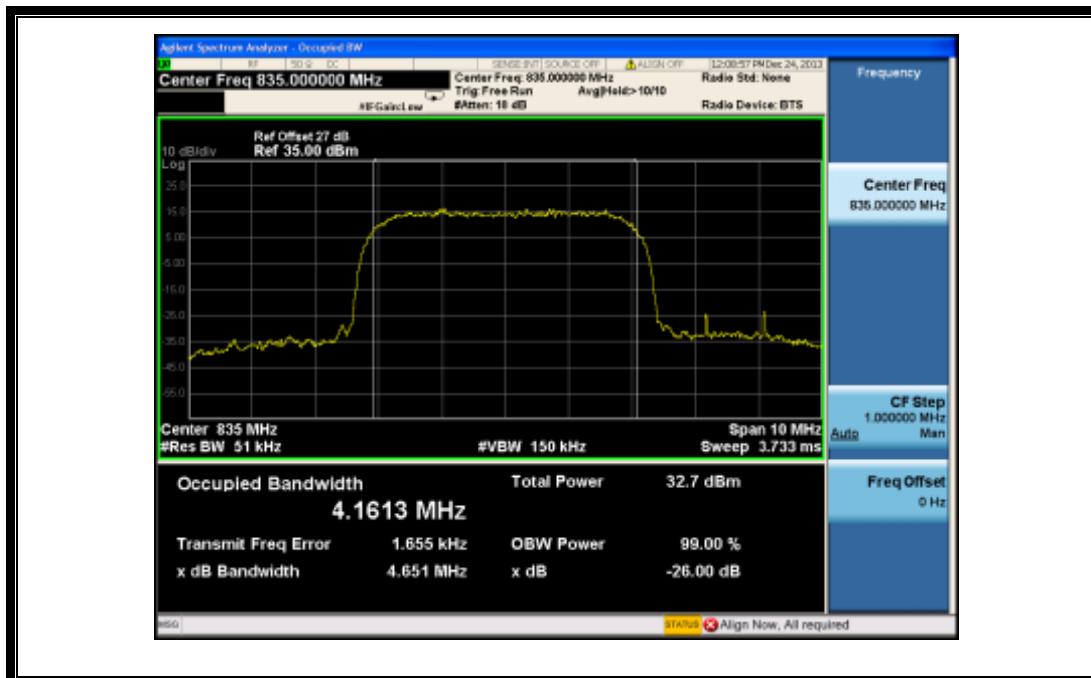
(Plot Q: HSDPA1900 MHz Channel = 9400)



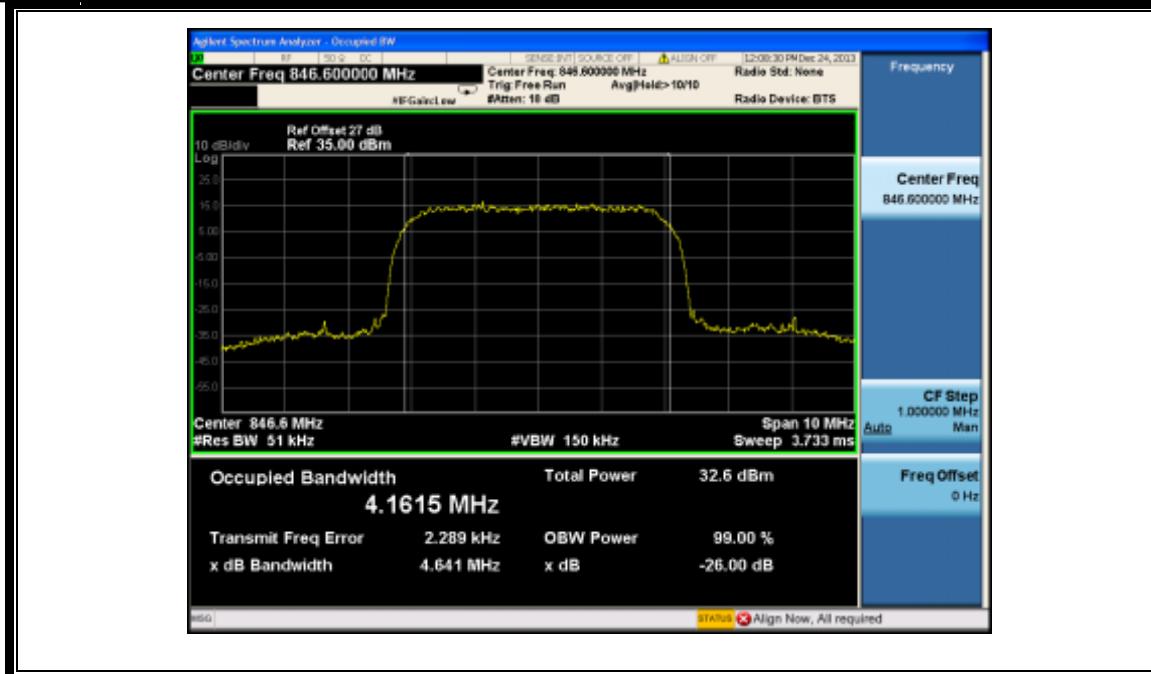
(Plot R: HSDPA 1900 MHz Channel = 9538)



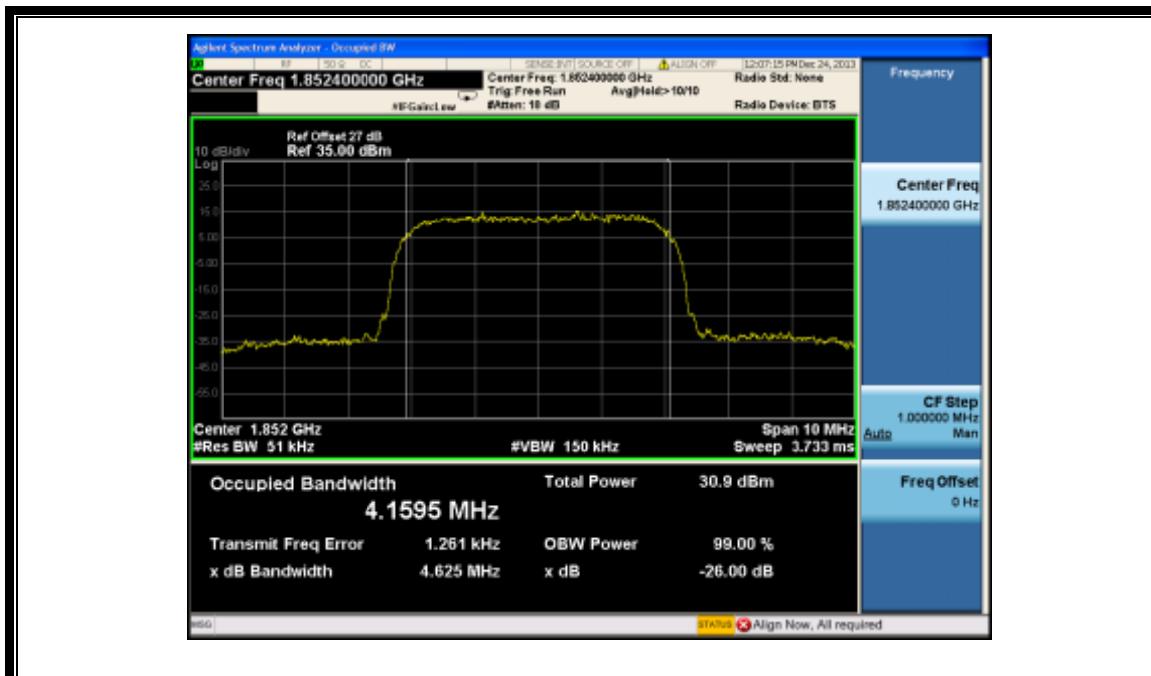
(Plot S: HSUPA850 MHz Channel = 4132)



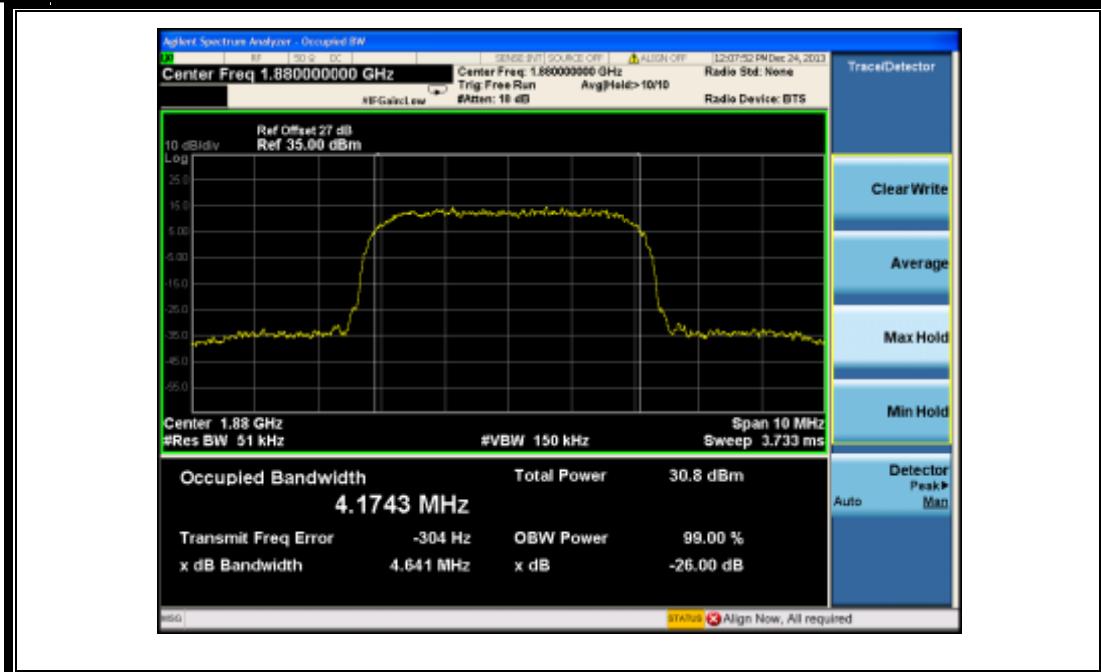
(Plot T: HSUPA850 MHz Channel = 4175)



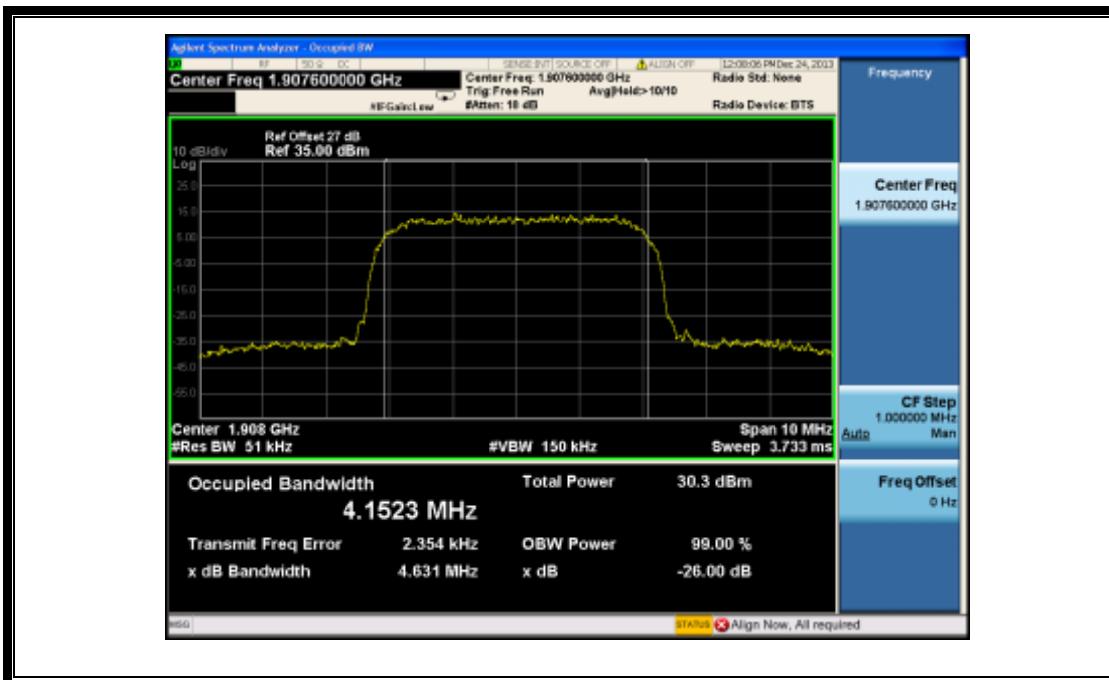
(Plot U: HSUPA850 MHz Channel = 4233)



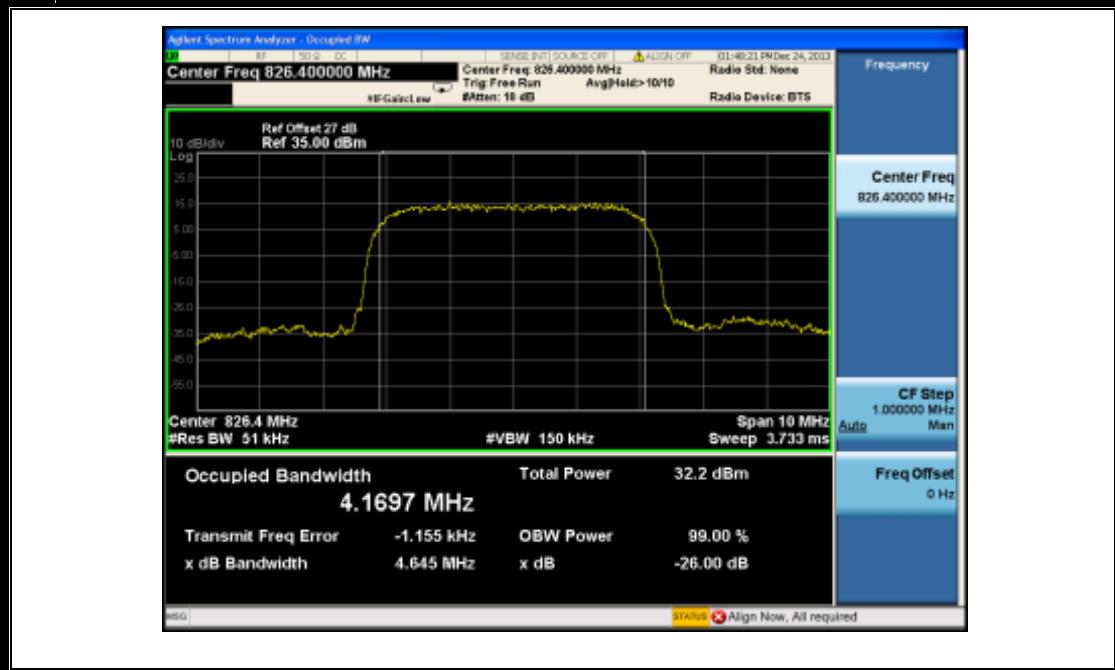
(Plot V: HSUPA1900 MHz Channel = 9262)



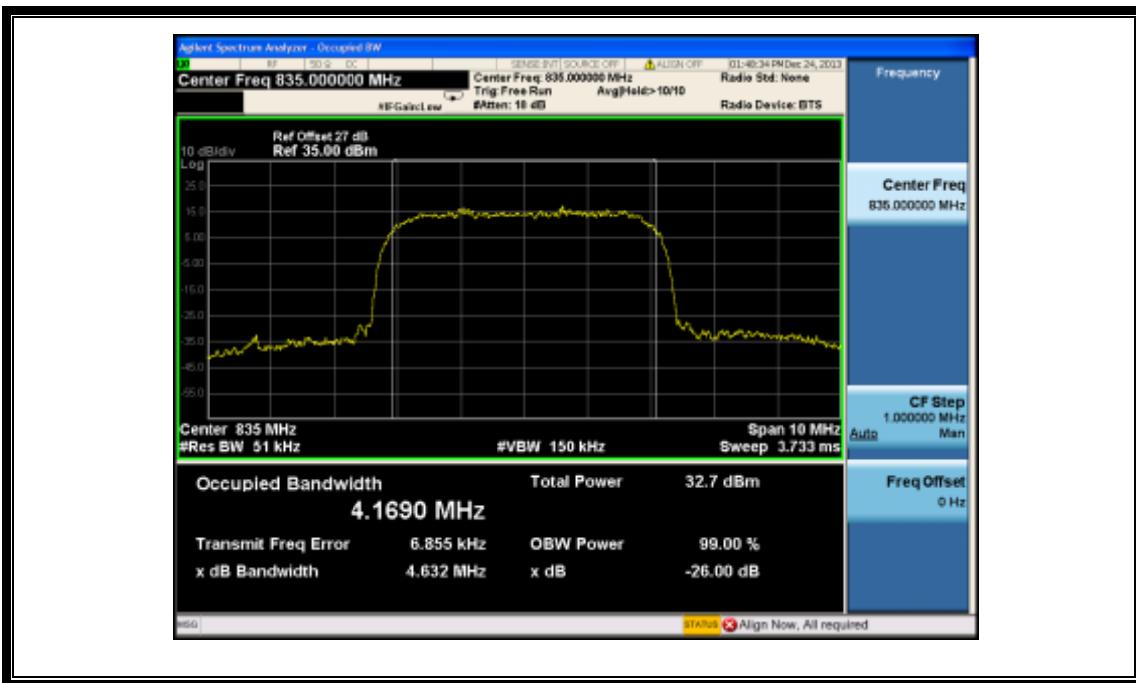
(Plot W: HSUPA1900 MHz Channel = 9400)



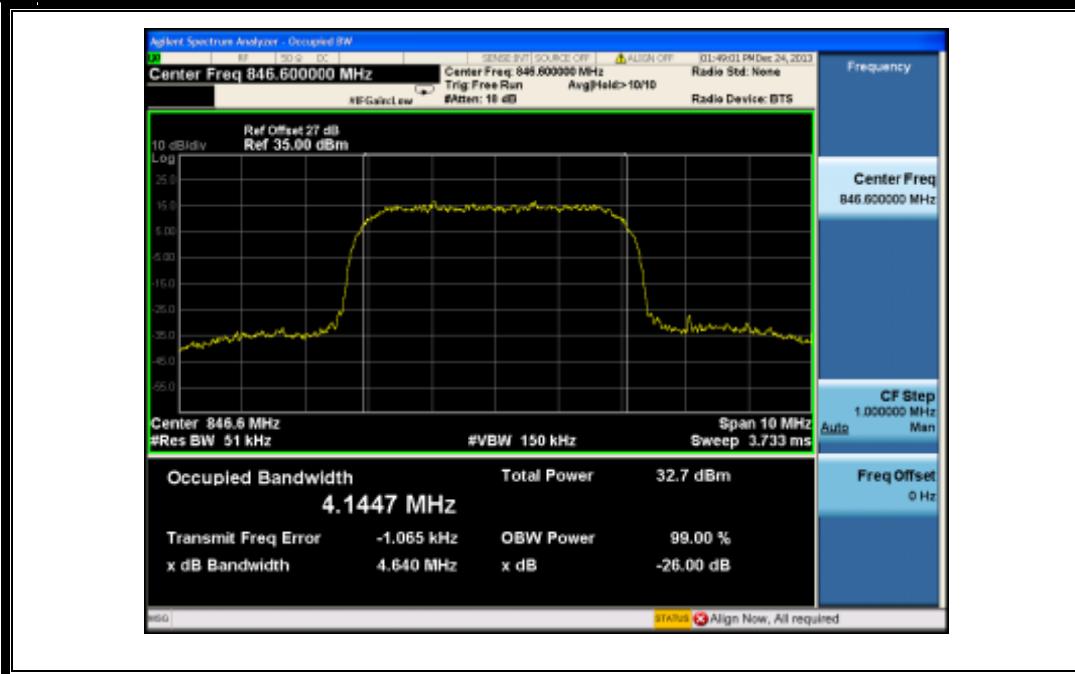
(Plot X: HSUPA1900 MHz Channel = 9538)



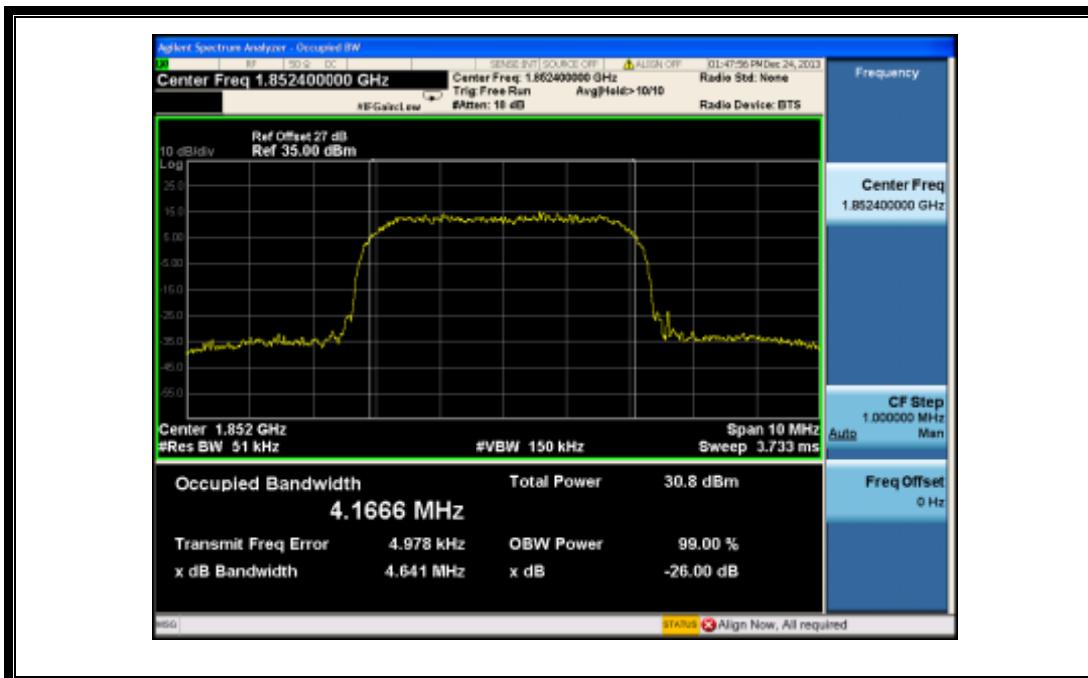
(Plot Y: HSPA+ 850 MHz Channel = 4132)



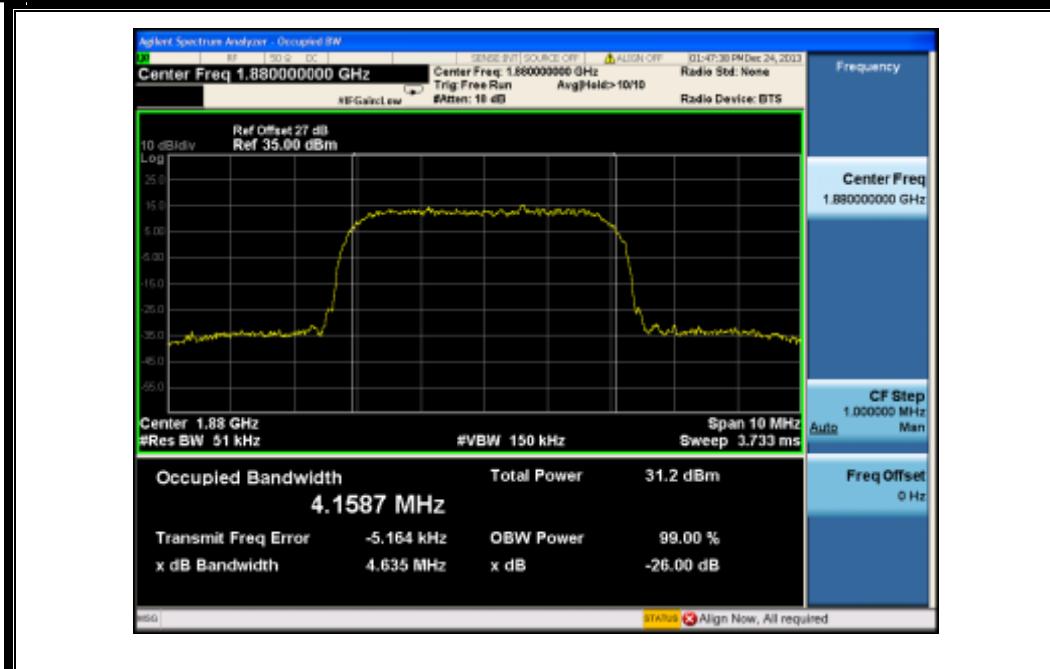
(Plot Z: HSPA+850 MHz Channel = 4175)



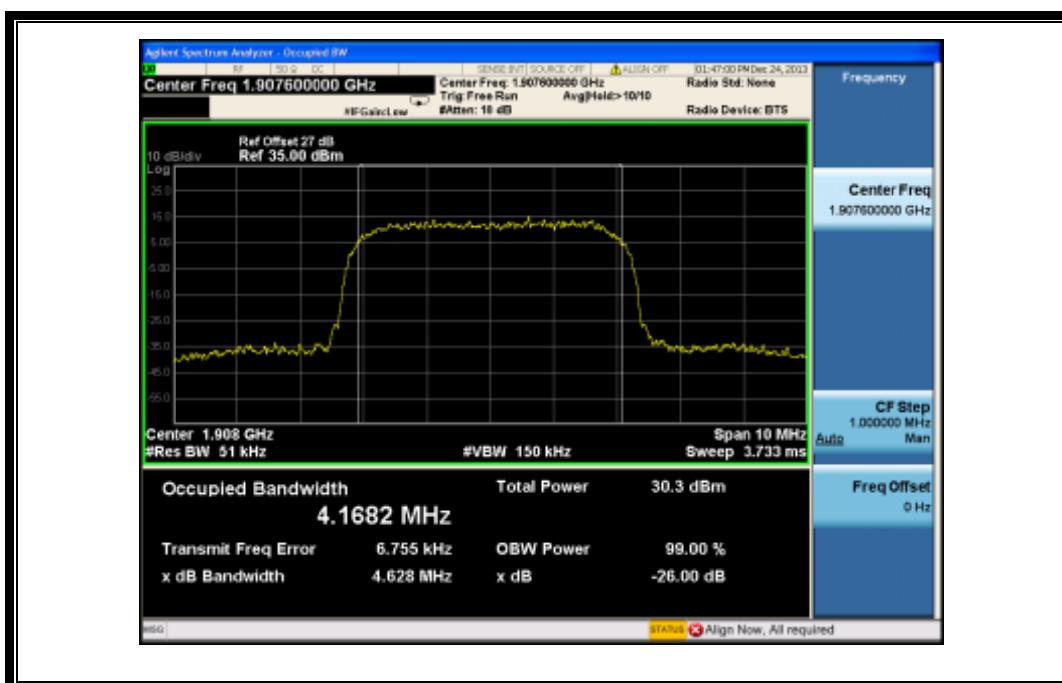
(Plot A1:HSPA+ 850 MHz Channel = 4233)



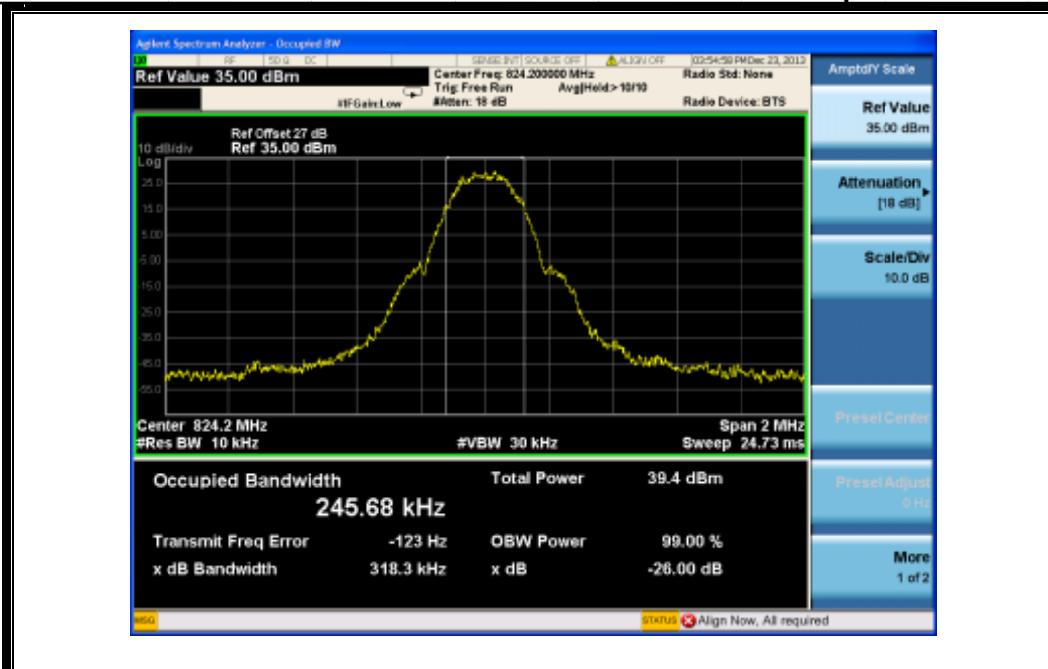
(Plot B1: HSPA+1900 MHz Channel = 9262)



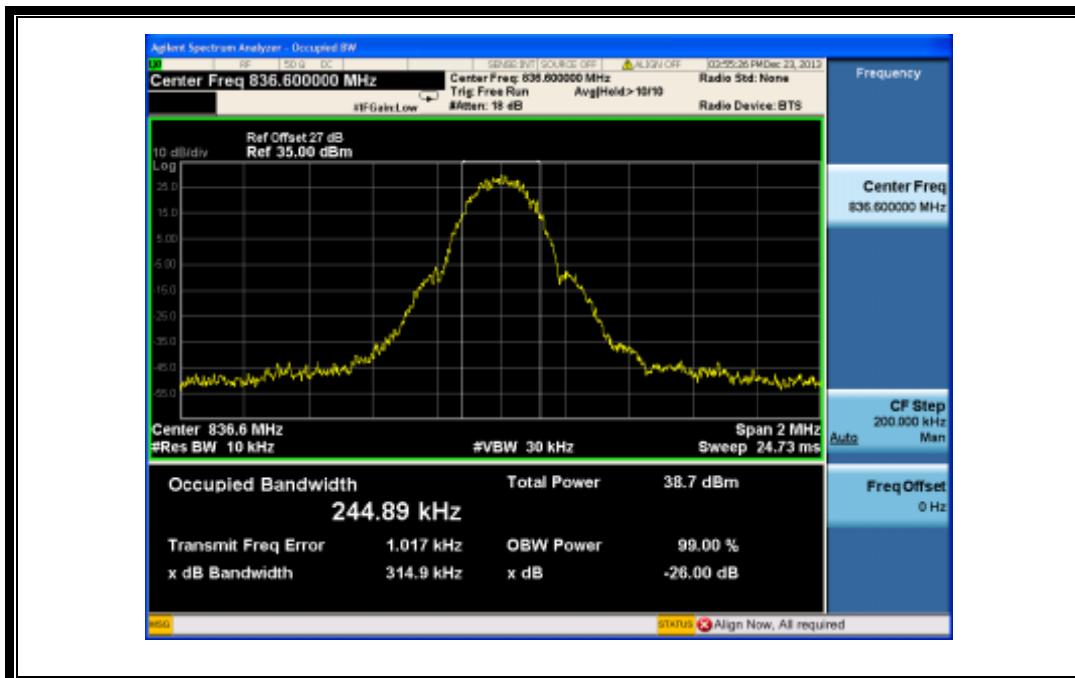
(Plot C1: HSPA+1900 MHz Channel = 9400)



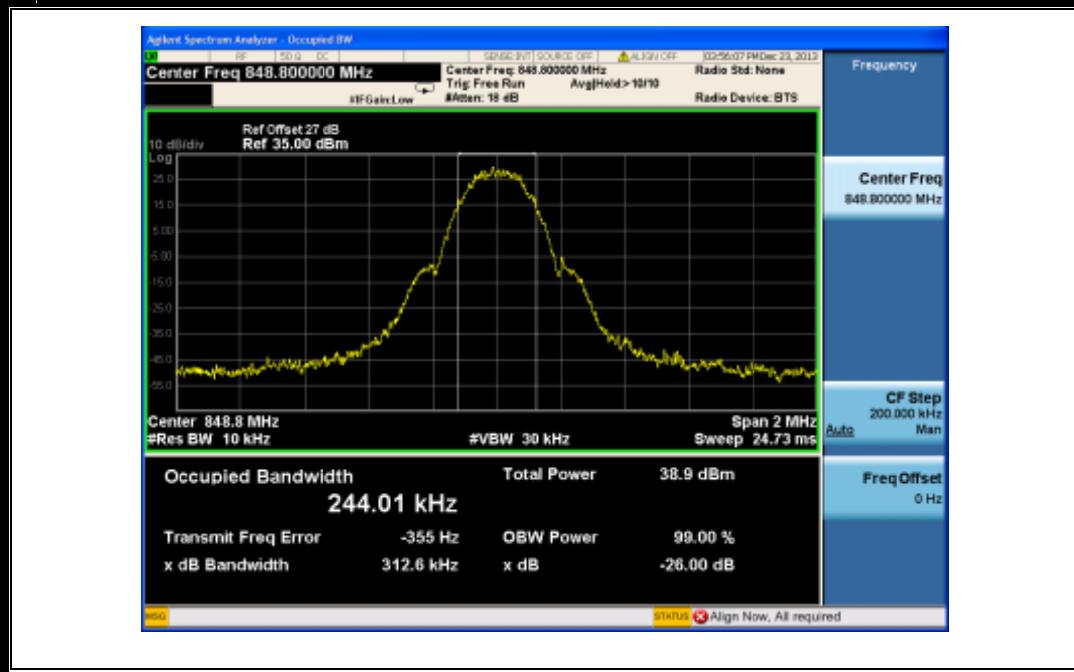
(Plot D1: HSPA+1900 MHz Channel = 9538)



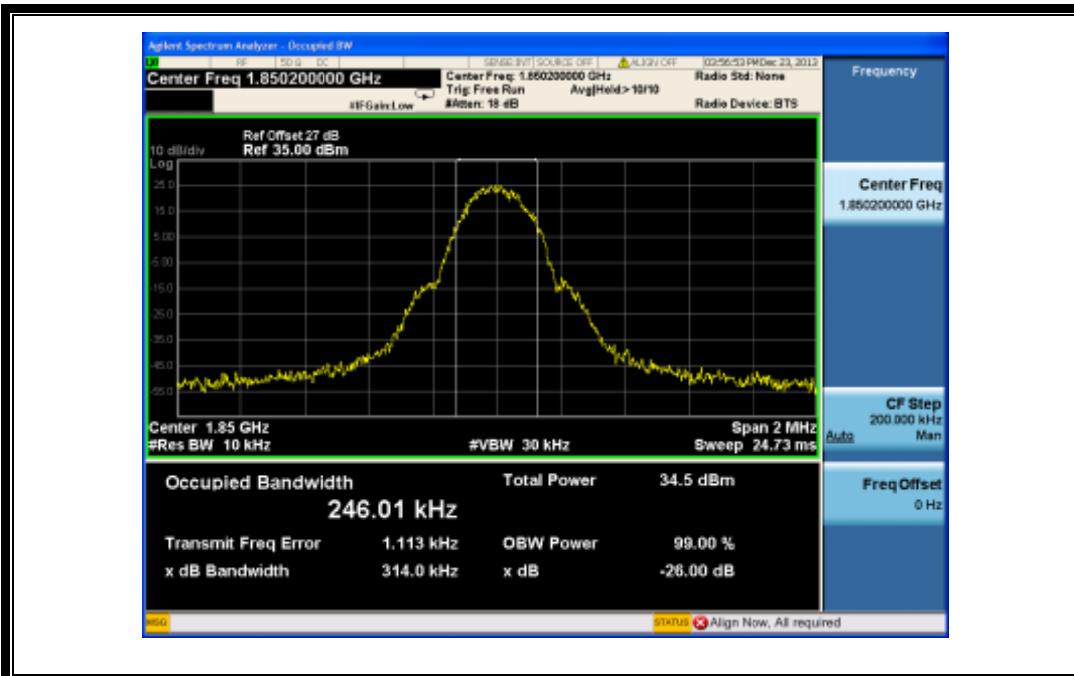
(Plot E1: GSM 850MHz Channel = 128)



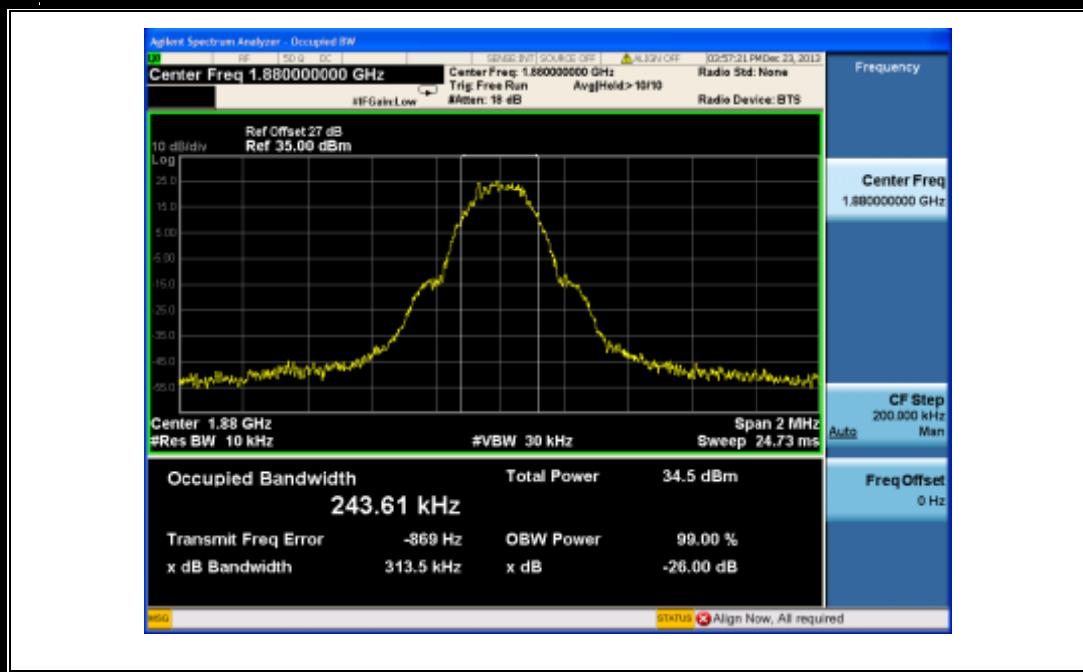
(Plot F1:GSM 850MHz Channel = 190)



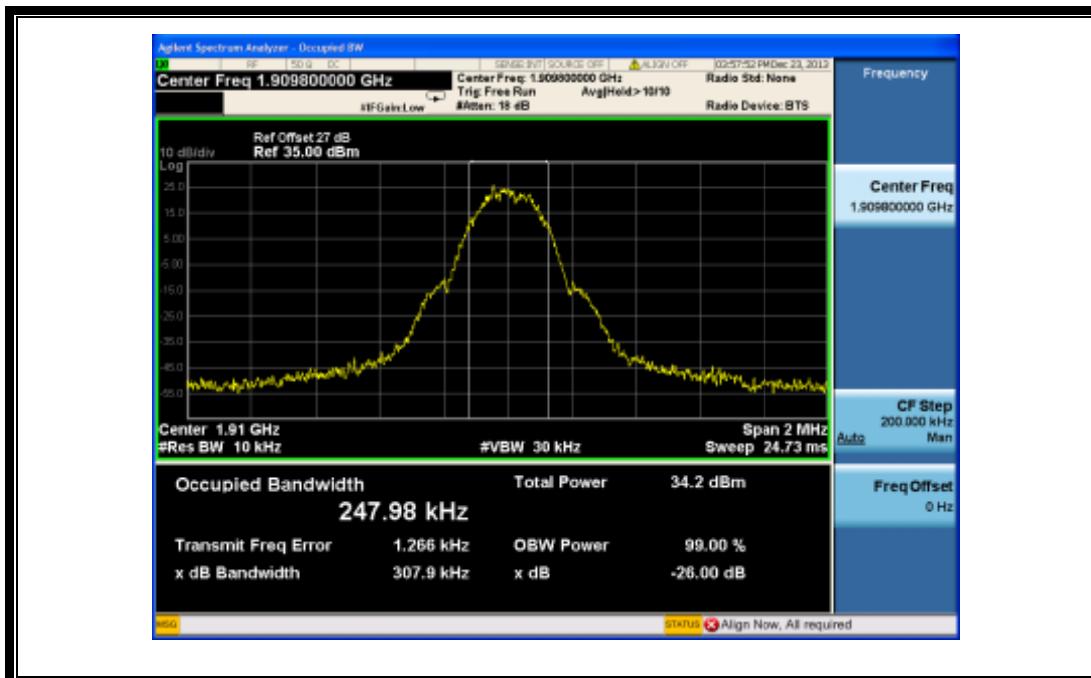
(Plot G1: GSM 850MHz Channel = 251)



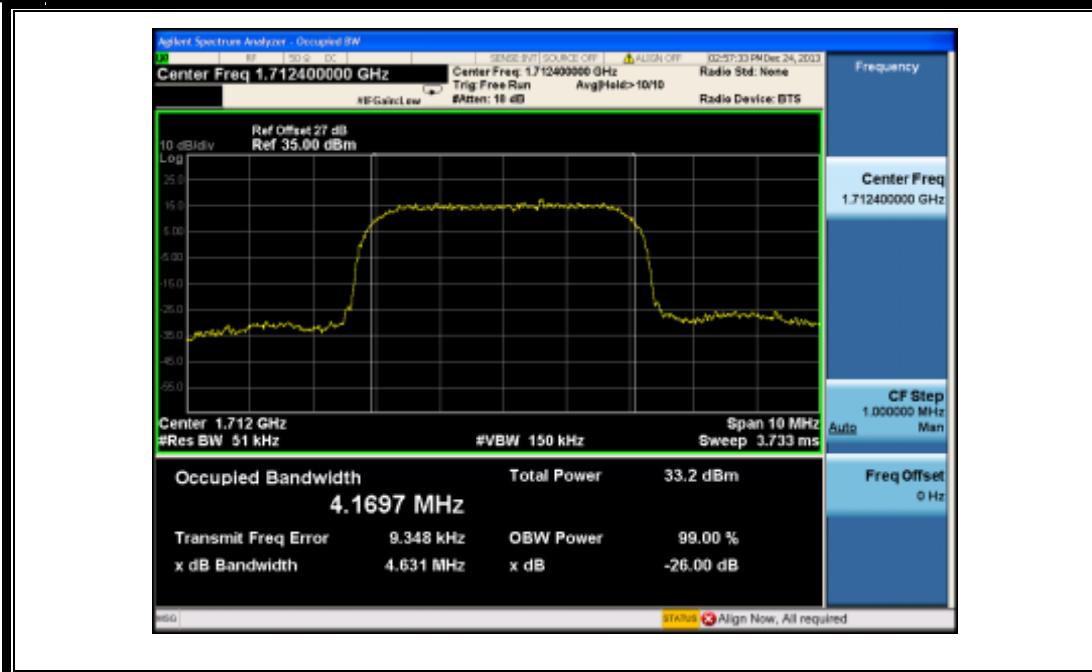
(Plot H1: GSM 1900MHz Channel = 512)



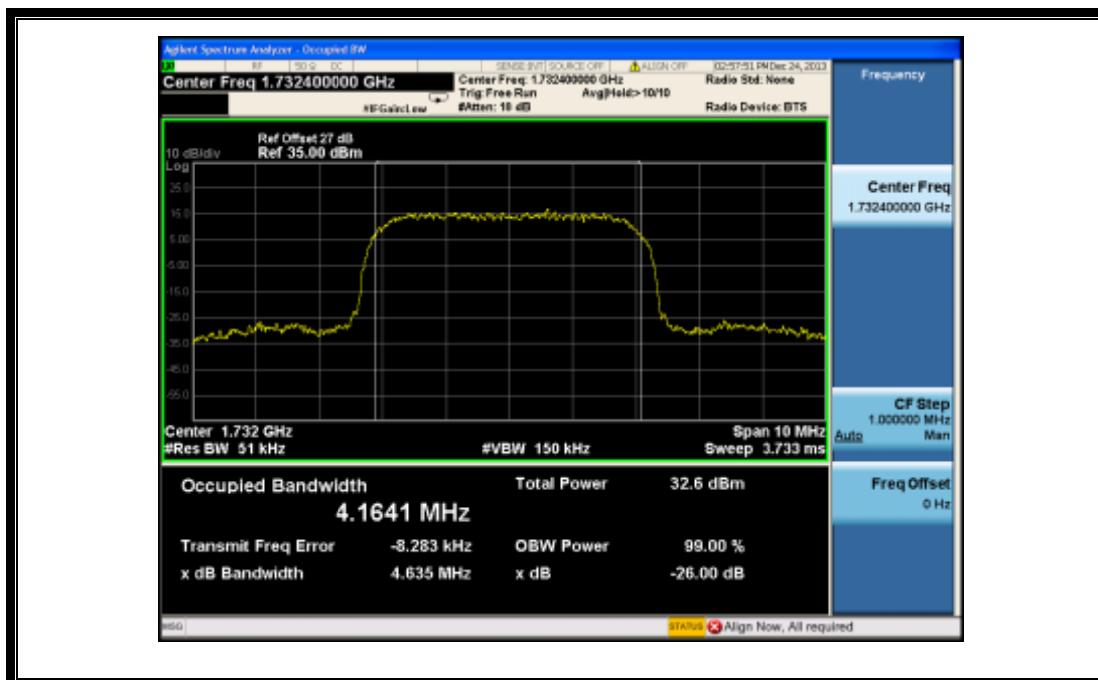
(Plot I1: GSM 1900MHz Channel = 661)



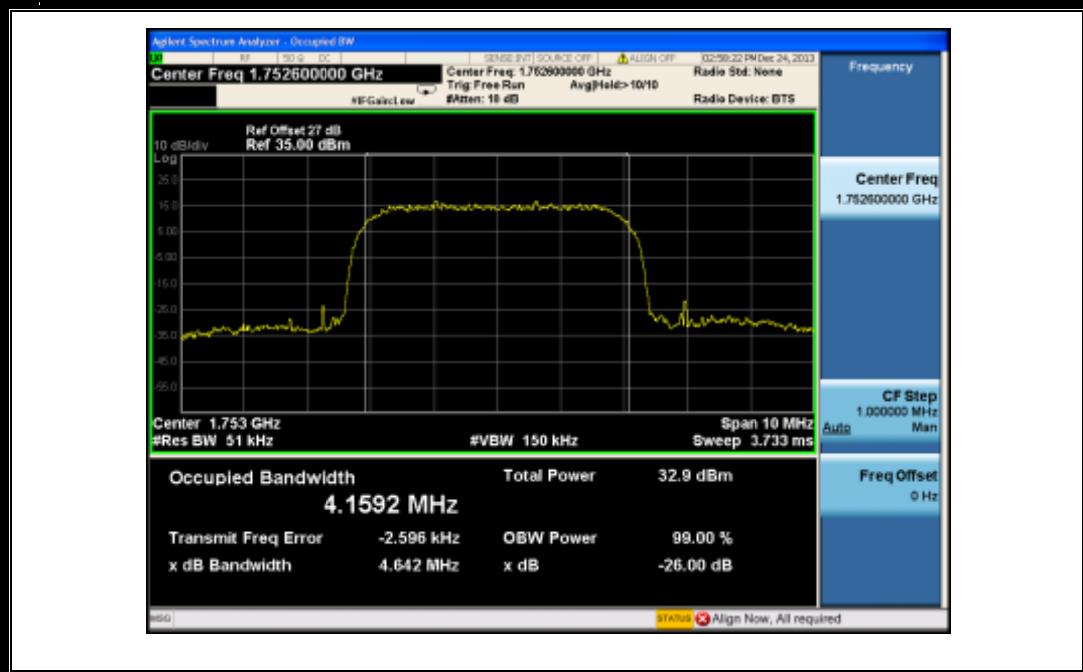
(Plot J1: GSM 1900MHz Channel = 810)



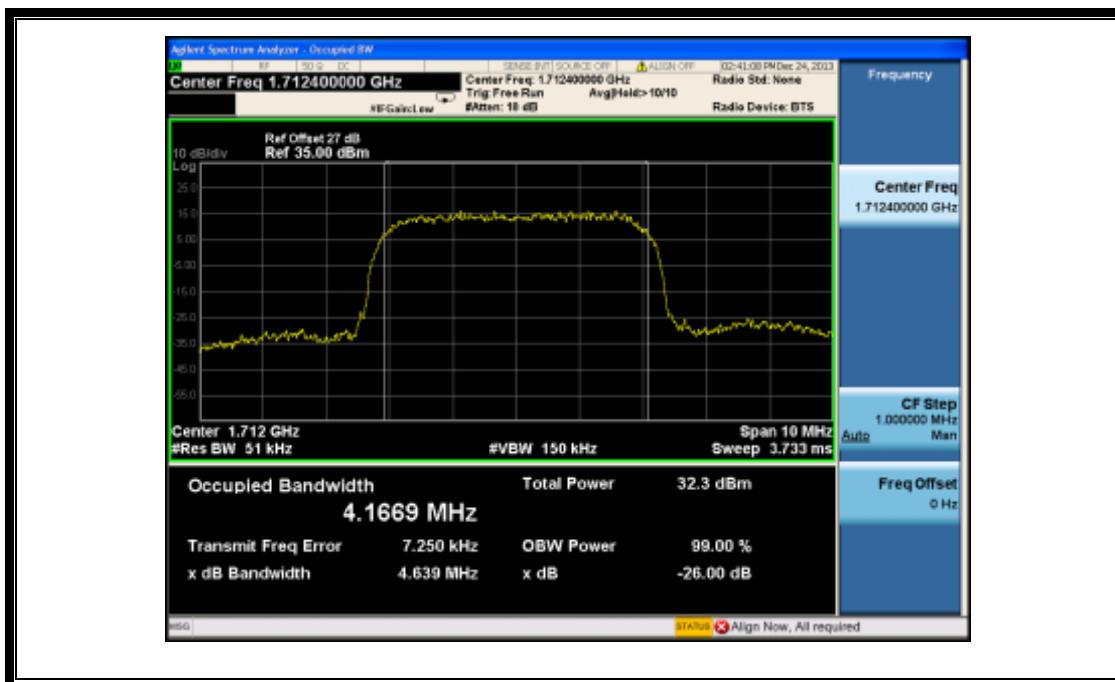
(Plot K1: WCDMA 1700MHz Channel = 1312)



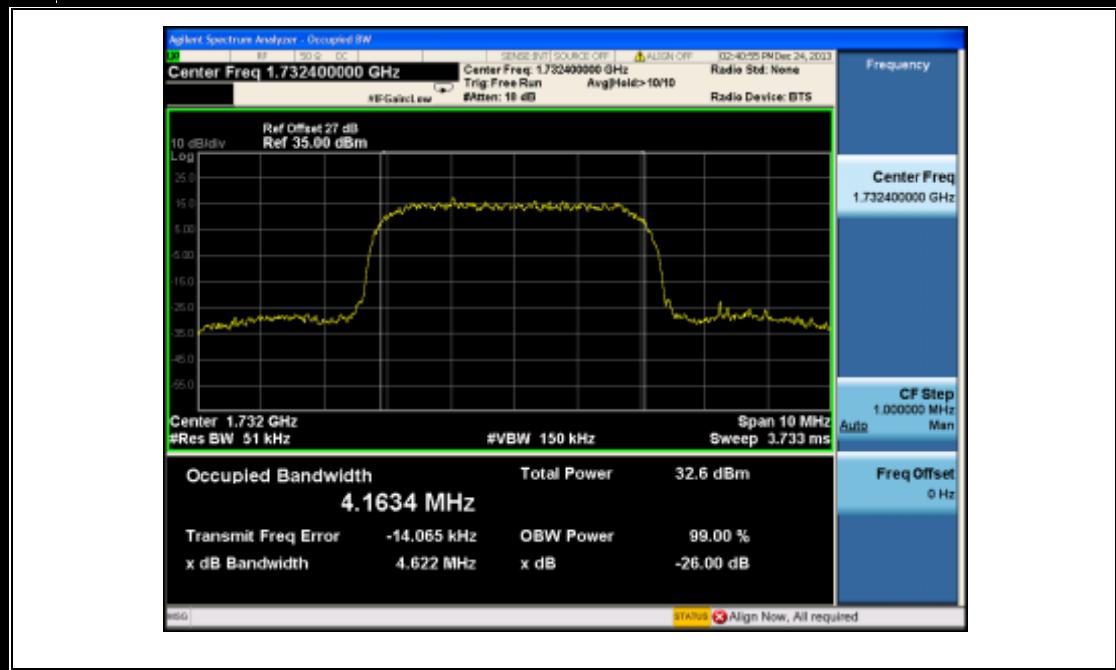
(Plot L1: WCDMA 1700 MHz Channel = 1412)



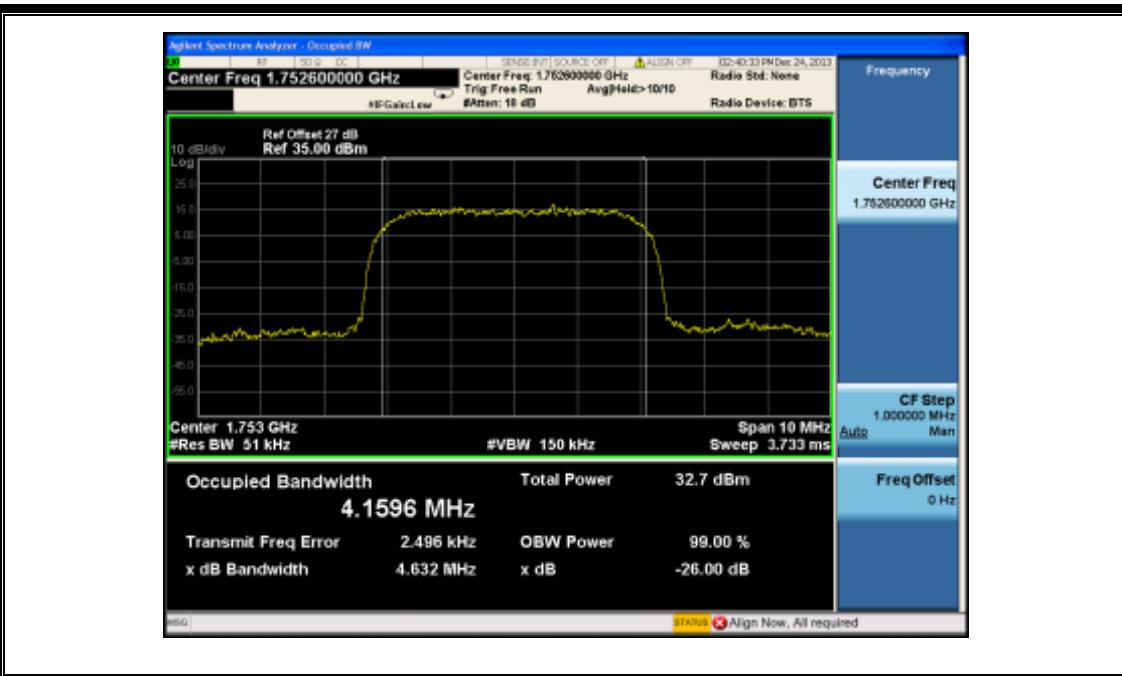
(Plot M1: WCDMA 1700MHz Channel = 1513)



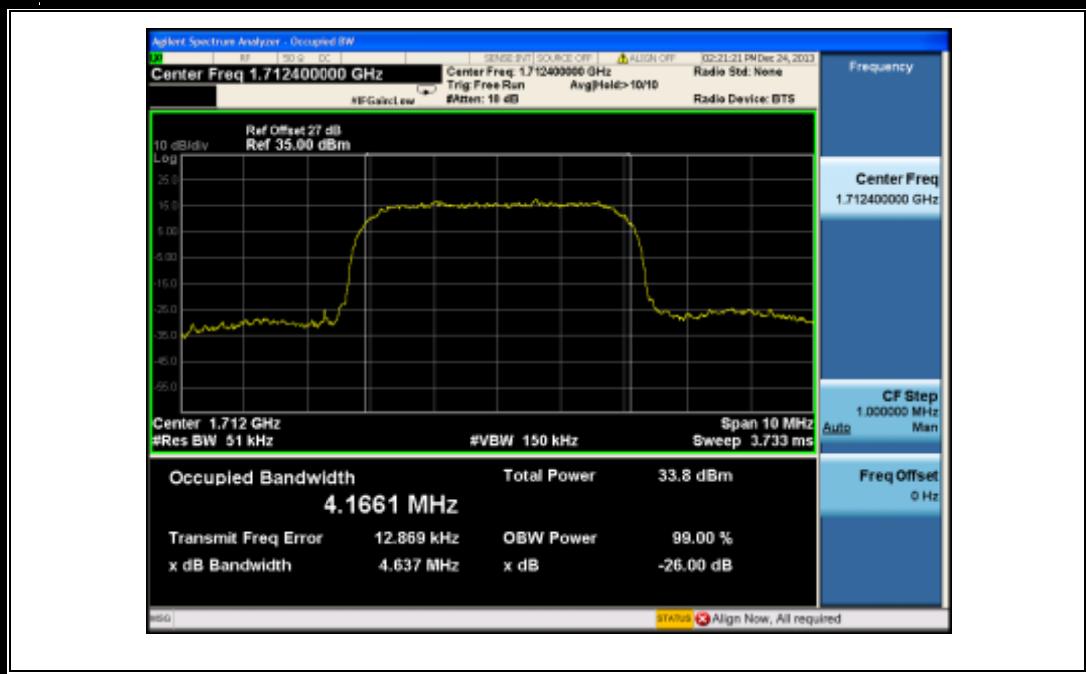
(Plot N1: HSDPA 1700MHz Channel = 1312)



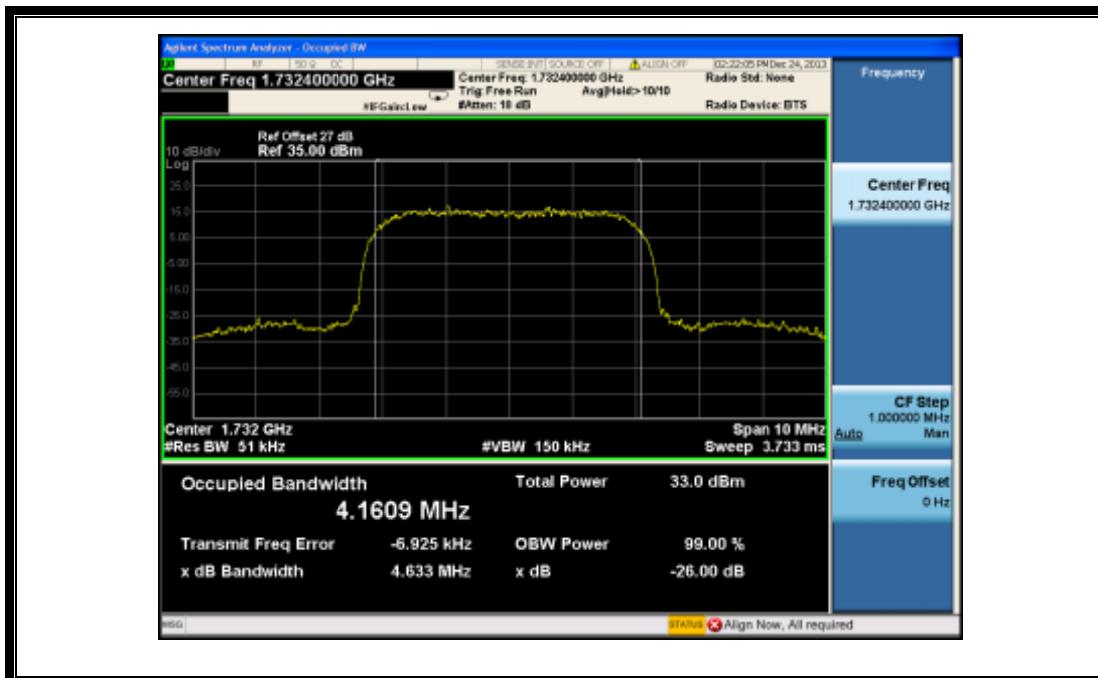
(Plot O1: HSDPA 1700 MHz Channel = 1412)



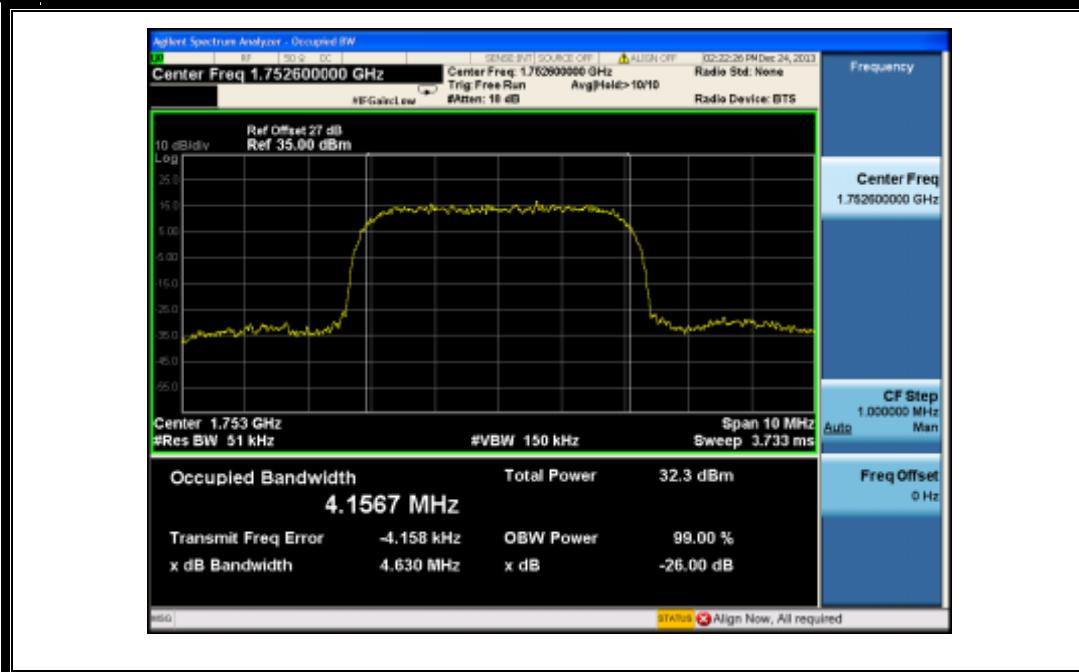
(Plot P1: HSDPA 1700MHz Channel = 1513)



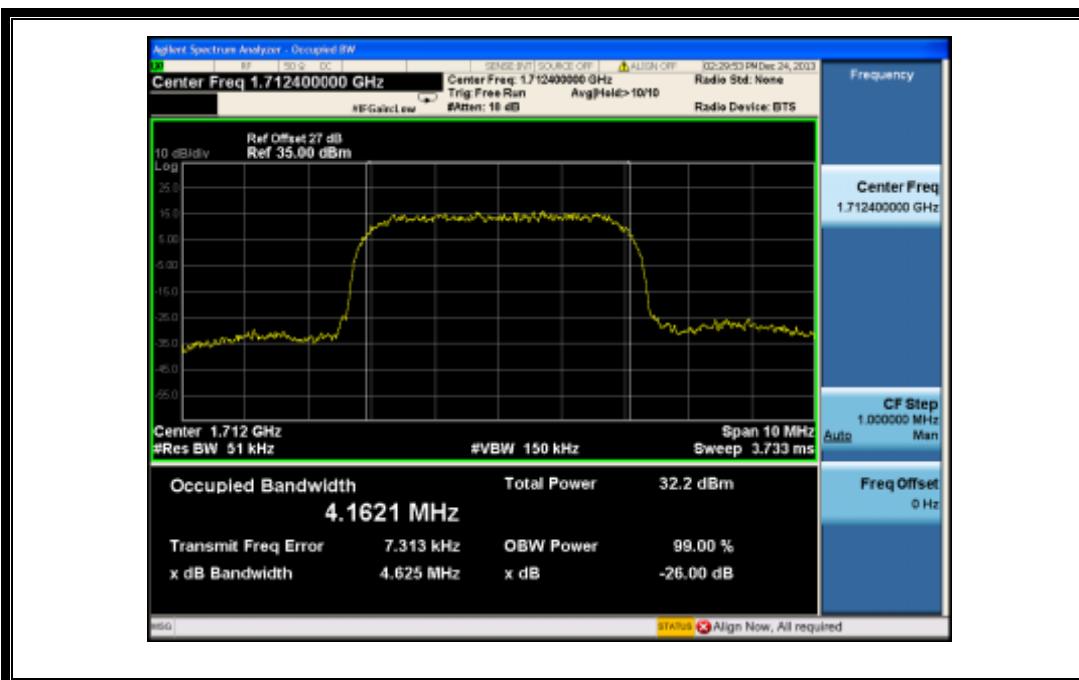
(Plot Q1: HSUPA 1700MHz Channel = 1312)



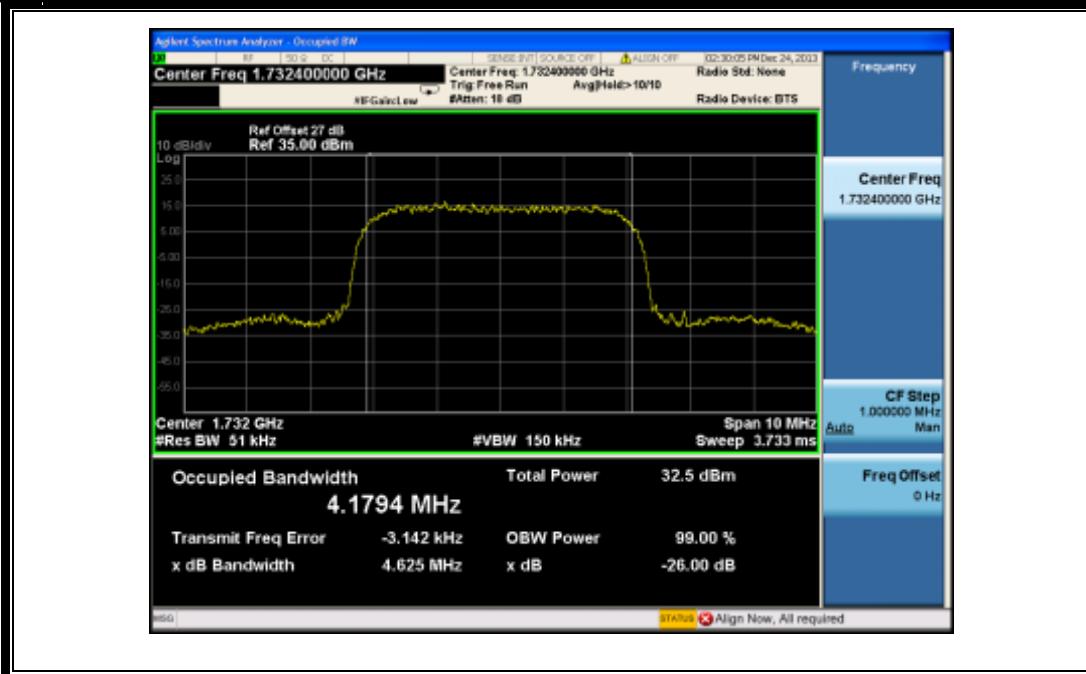
(Plot R1: HSUPA1700 MHz Channel = 1412)



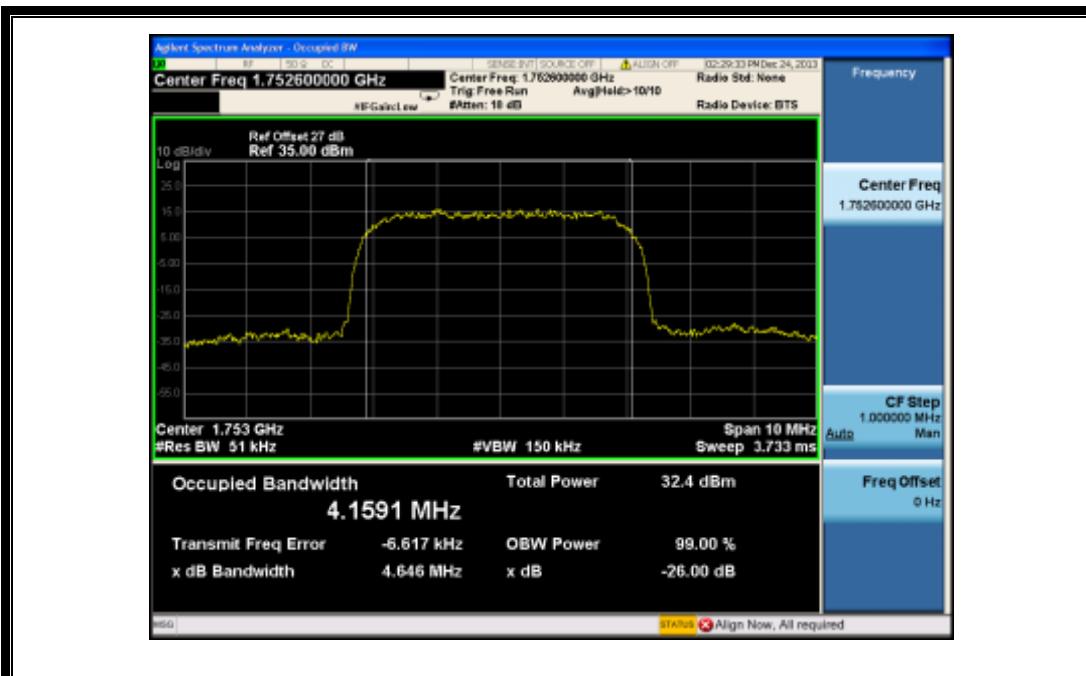
(Plot S1: HSUPA 1700 MHz Channel = 1513)



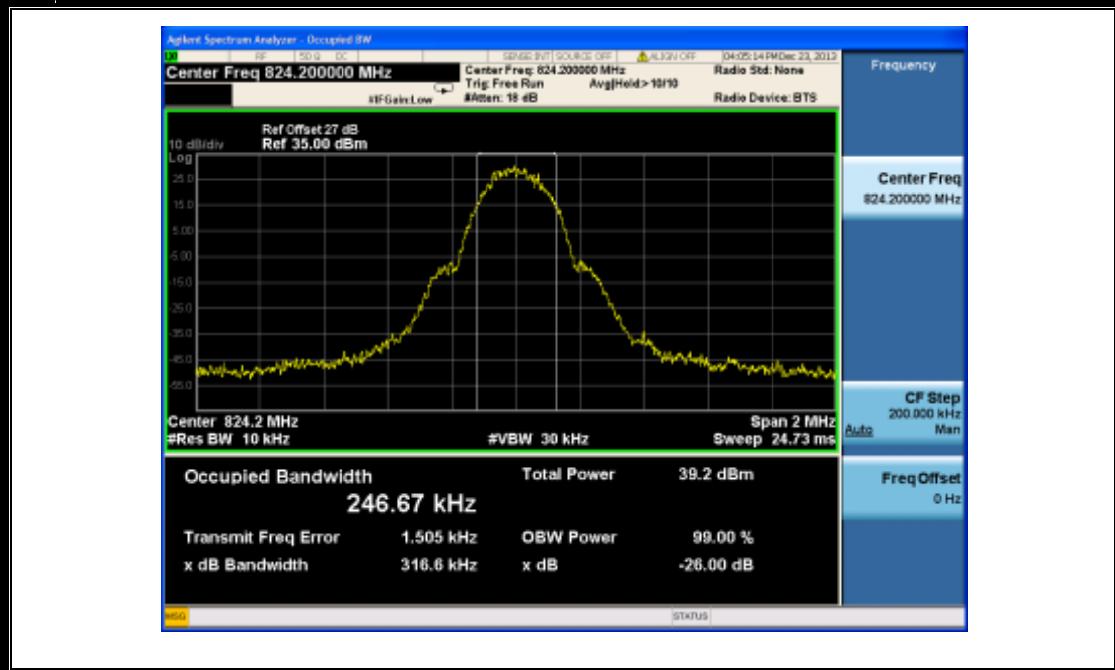
(Plot T1:HSPA+1700 MHz Channel = 1312)



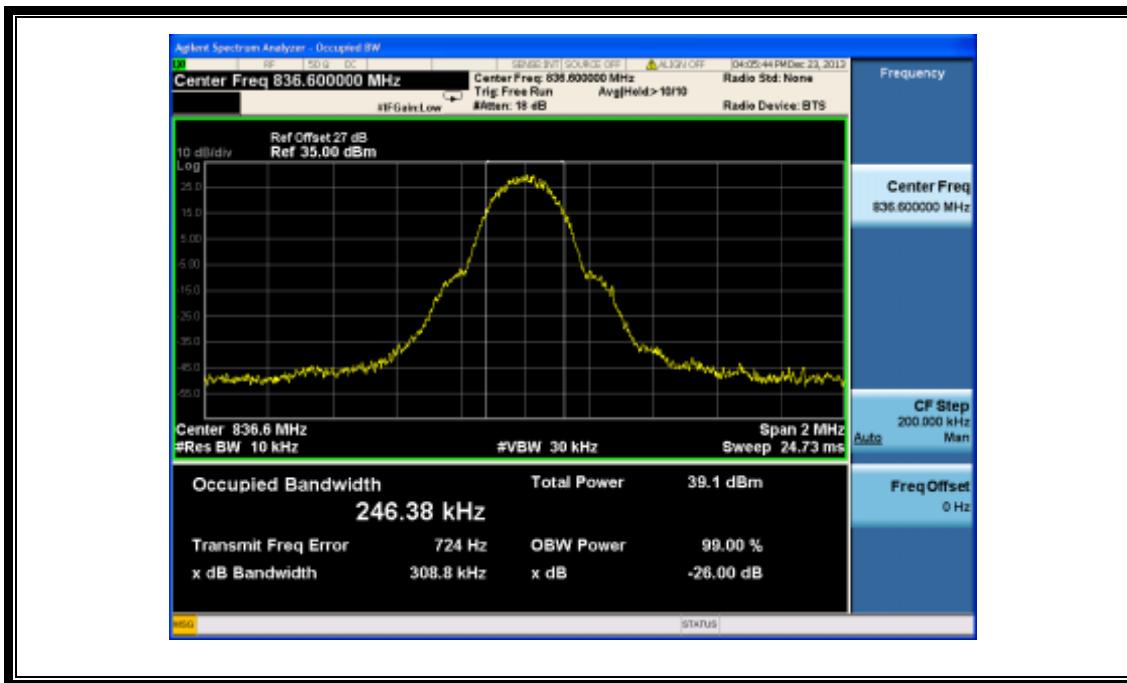
(Plot U1: HSPA+1700 MHz Channel = 1412)



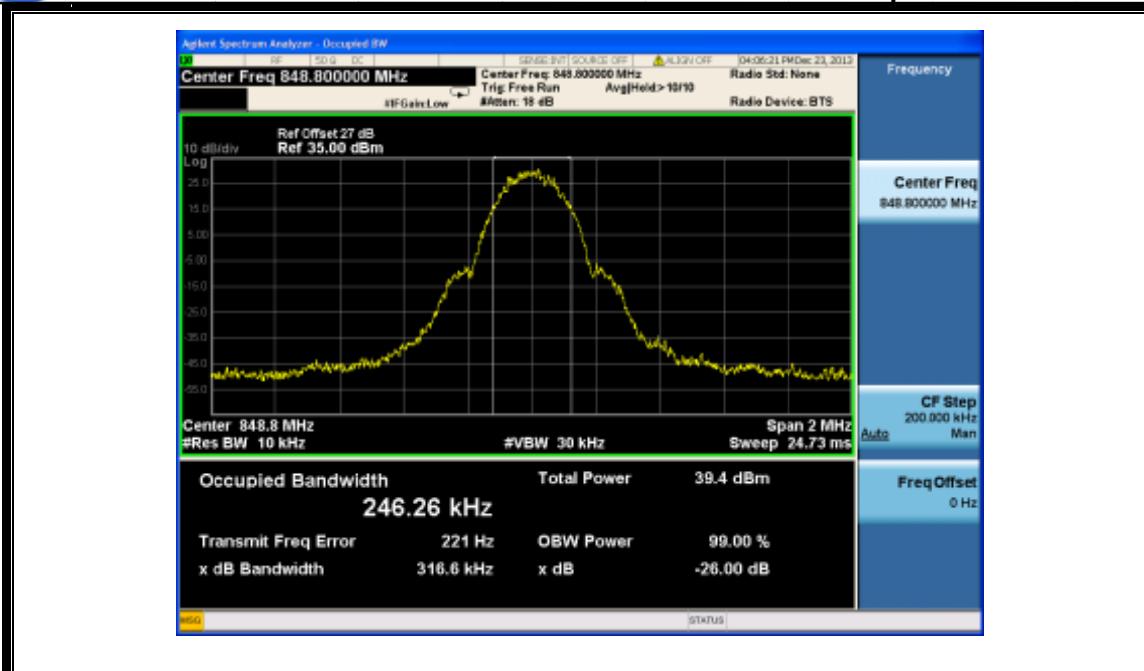
(Plot V1: HSPA+1700 MHz Channel = 1513)



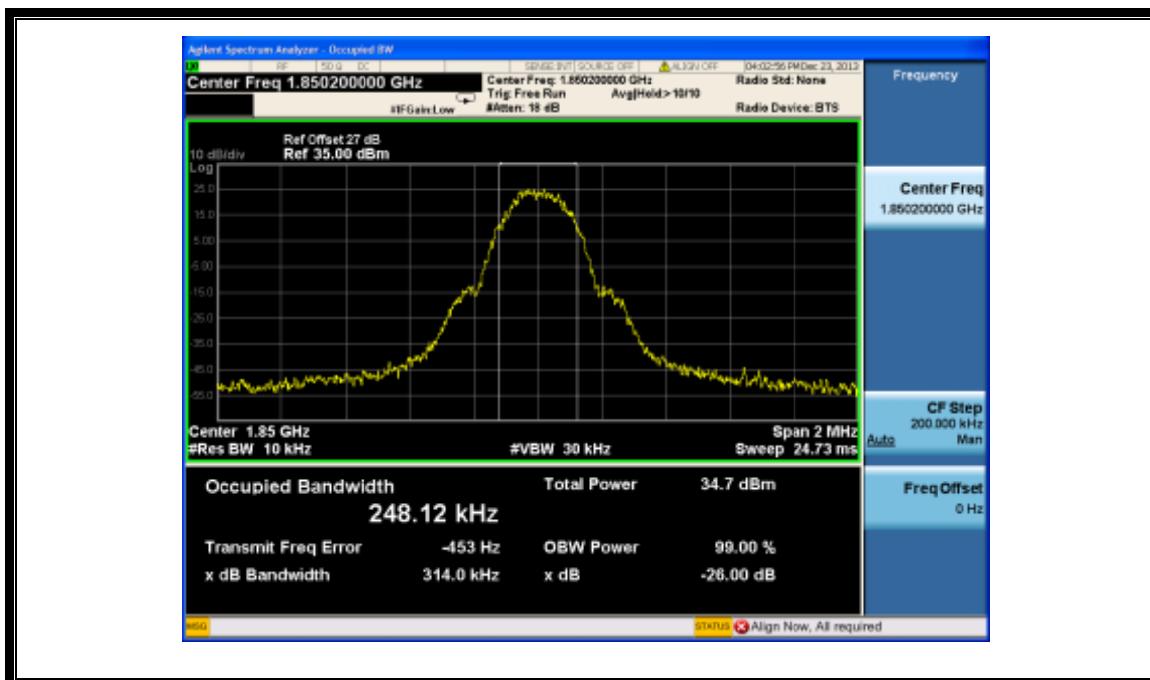
(Plot W1: GPRS 850MHz Channel = 128)



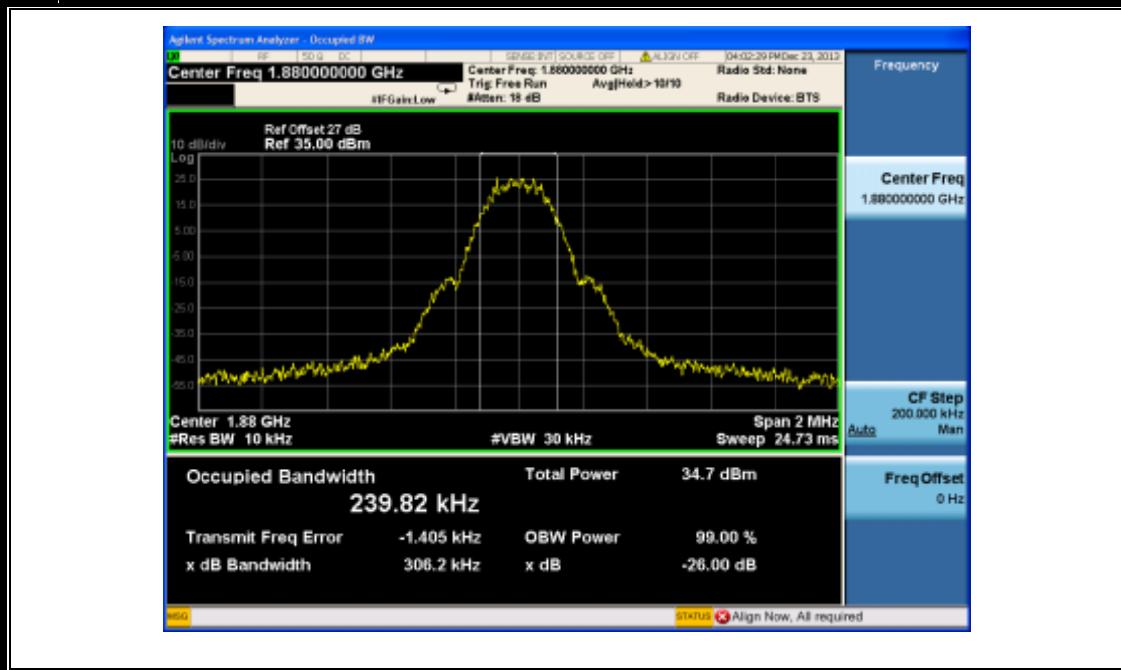
(Plot X1: GPRS 850MHz Channel = 190)



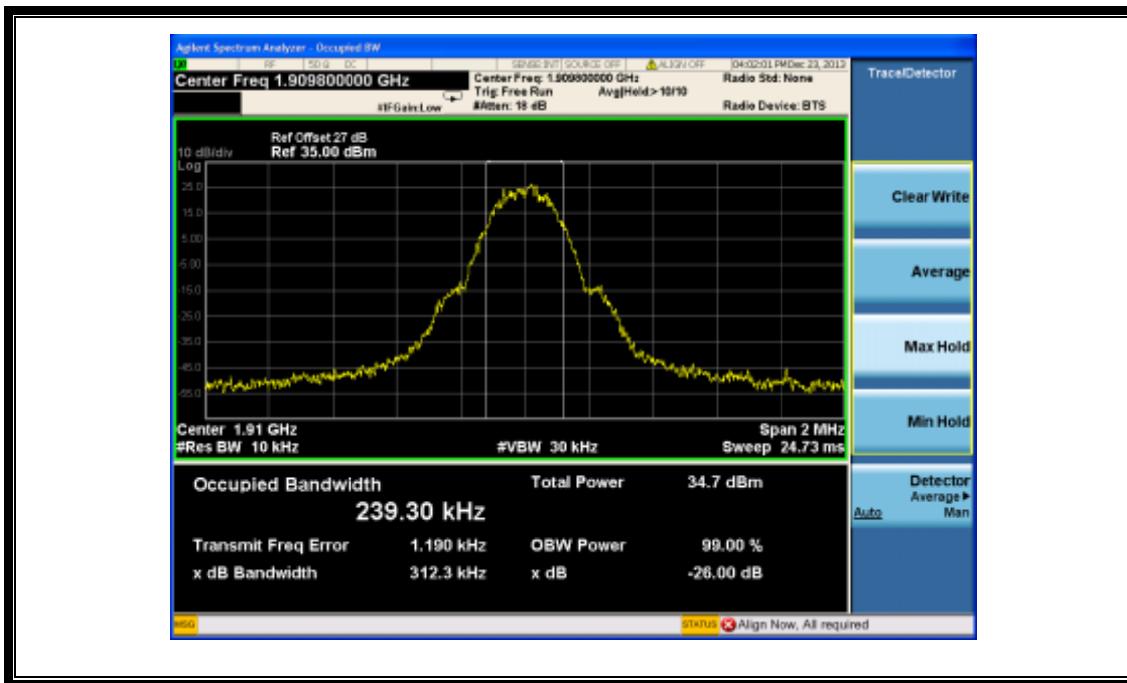
(PlotY1: GPRS850MHz Channel = 251)



(Plot Z1:GPRS 1900MHz Channel = 512)



(Plot A2:GPRS 1900MHz Channel = 661)



(Plot B2: GPRS 1900MHz Channel = 810)