



REPORT No.: SZ19020019W01

# TEST REPORT

**APPLICANT** : BLU Products, Inc.  
**PRODUCT NAME** : Mobile phone  
**MODEL NAME** : G5,V5,D701,STUDIO MINI  
**BRAND NAME** : BLU  
**FCC ID** : YHLBLUG5  
**STANDARD(S)** : 47 CFR Part 22 Subpart H  
                  : 47 CFR Part 24 Subpart E  
                  : 47 CFR Part 27 Subpart L  
**RECEIPT DATE** : 2019-03-18  
**TEST DATE** : 2019-03-18 to 2019-04-09  
**ISSUE DATE** : 2019-04-10

Edited by: Zhao Zetian  
Zhao Zetian (Rapporteur)

Approved by: Peng Huarui  
Peng Huarui ( Supervisor )

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Change History		
Version	Date	Reason for change
1	2019-04-10	Initail Version

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# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	BLU Products, Inc.
<b>Applicant Address:</b>	10814 NW 33rd St # 100 Doral, FL 33172, Doral, Florida, United States
<b>Manufacturer:</b>	BLU Products, Inc.
<b>Manufacturer Address:</b>	10814 NW 33rd St # 100 Doral, FL 33172, Doral, Florida, United States

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Mobile phone
<b>Serial No:</b>	(N/A, marked #1 by test site)
<b>Hardware Version:</b>	FS171-MB-V0.1
<b>Software Version:</b>	BLU_G0090_V9.0.01.00
<b>Modulation Type:</b>	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
<b>Operating Frequency Range:</b>	<b>GSM 850MHz:</b> Tx: 824.20 - 848.80MHz Rx: 869.20 - 893.80MHz <b>GSM 1900MHz:</b> Tx: 1850.20 - 1909.80MHz Rx: 1930.20 - 1989.80MHz <b>WCDMA Band V</b> Tx: 826.4 - 846.6MHz Rx: 871.4 - 891.6MHz <b>WCDMA Band II</b> Tx: 1852.4 - 1907.6MHz Rx: 1932.4 - 1987.6MHz



<b>Operating Frequency Range:</b>	<b>WCDMA Band IV</b> Tx: 1712.4 – 1752.6MHz Rx: 2112.4 - 2152.6MHz	
<b>Antenna Type:</b>	PIFA Antenna	
<b>Antenna Gain:</b>	GSM 850:	-2.0 dBi
	GSM1900:	-1.2 dBi
	WCDMA Band V:	-2.0 dBi
	WCDMA Band II:	-1.2 dBi
	WCDMA Band IV:	-1.0 dBi
<b>Accessory Information:</b>	Battery	
	Brand Name:	BLU
	Model No.:	C835846300P
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	3000mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-NB-1504
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V~ 50/60Hz 0.3A
	Rated Output:	5V= 1.5A

**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 (ARFCNs) 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 (ARFCNs) 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 Band V 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 (ARFCNs) used and tested in this report are separately 4132 (826.4MHz), 4182(836.4MHz) and 4233 (846.6MHz).

**Note 4:** The transmitter (Tx) frequency arrangement of the WCDMA Band II 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 (ARFCNs) 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 (ARFCNs) used and tested in this report are separately 1312 (1712.4MHz), 1413 (1732.6MHz) and 1513 (1752.6MHz).

**Note 6:** All modes and data rates were considered and evaluated respectively by performing full test. Test modes are chosen to be reported as the worst case below:

GRPS mode and EDGE mode for GSM 850;  
GRPS mode and EDGE mode for GSM 1900;  
WCDMA mode for WCDMA band V;  
WCDMA mode for WCDMA band II;  
WCDMA mode for WCDMA band IV;

**Note 7:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

### 1.3. Maximum ERP/EIRP and Emission Designator

System	Maximum ERP/EIRP (W)	Emission Designator
GSM850	0.729	244KGXW
EDGE850	0.156	249KG7W
GSM1900	0.718	247KGXW
EDGE1900	0.290	248KG7W
WCDMA Band V	0.084	4M16F9W
WCDMA Band II	0.131	4M16F9W



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WCDMA Band IV	0.130	4M17F9W
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## 1.4. Test Standards and Results

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

No	Identity	Document Title
1	47 CFR Part 2 (10-1-12 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-12 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-12 Edition)	Personal Communications Services
4	47 CFR Part 27 (10-1-12 Edition)	Miscellaneous Wireless Communications

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

No.	Section	Description	Test Date	Test Engineer	Result
1	2.1046	Conducted RF Output Power	Mar 19, 2019	Gao Mingzhou	PASS
2	24.232(d), 27.50(d)	Peak - Average Ratio	Mar 19&21, 2019	Gao Mingzhou	PASS
3	2.1049	99% Occupied Bandwidth	Mar 19&21, 2019	Gao Mingzhou	PASS
4	2.1055, 22.355, 24.235, 27.54	Frequency Stability	Mar 19&21, 2019	Gao Mingzhou	PASS
5	2.1051, 22.917(a), 24.238(a), 27.53(h)	Conducted Out of Band Emissions	Mar 19, 2019	Gao Mingzhou	PASS
6	2.1051, 22.917(a), 24.238(a), 27.53(h)	Band Edge	Mar 19&21, 2019	Gao Mingzhou	PASS
7	22.913(a), 24.232(a)	Transmitter Radiated Power (EIPR/ERP)	Apr 08&09, 2019	Wang Dalong	PASS
8	2.1051, 22.917(a), 24.238(a), 27.53(h)	Radiated Out of Band Emissions	Apr 02, 2019	Wang Dalong	PASS

**Note 1:** The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 (Oct 27, 2017) and ANSI/TIA-603-E-2016.

**Note 2:** The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 26.5dB contains two parts that cable loss 16.5dB and Attenuator 10dB.

## 1.5. Environmental 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

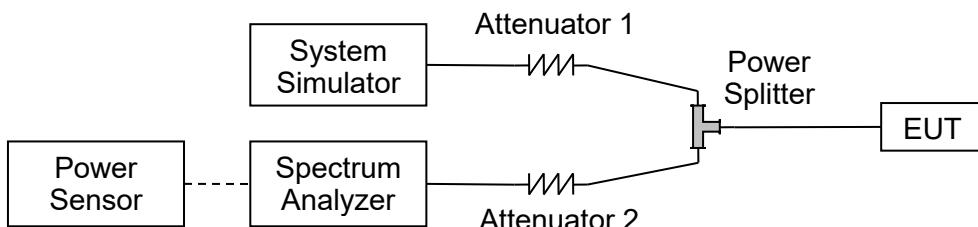
### 2.1. Conducted RF Output Power

#### 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

Test Setup:



The EUT 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.



### 2.1.3. Test Results

GSM850	Average Power (dBm)		
<b>TX Channel</b>	<b>128</b>	<b>190</b>	<b>251</b>
<b>Frequency (MHz)</b>	<b>824.2</b>	<b>836.6</b>	<b>848.8</b>
GSM 1 Tx slot	32.78	32.61	32.68
GPRS 1 Tx slot	32.76	32.60	32.71
GPRS 2 Tx slots	30.61	30.55	30.60
GPRS 3 Tx slots	28.82	28.77	28.84
GPRS 4 Tx slots	26.74	26.74	26.80
EDGE 1 Tx slot	25.90	26.08	25.91
EDGE 2 Tx slots	24.85	25.00	24.86
EDGE 3 Tx slots	22.34	22.41	22.15
EDGE 4 Tx slots	18.86	19.07	18.95

GSM1900	Average Power (dBm)		
<b>TX Channel</b>	<b>512</b>	<b>661</b>	<b>810</b>
<b>Frequency (MHz)</b>	<b>1850.2</b>	<b>1880</b>	<b>1909.8</b>
GSM 1 Tx slot	29.76	29.75	29.60
GPRS 1 Tx slot	29.72	29.73	29.58
GPRS 2 Tx slots	27.69	27.71	27.44
GPRS 3 Tx slots	26.16	26.17	25.89
GPRS 4 Tx slots	24.16	24.19	23.93
EDGE 1 Tx slot	25.48	25.82	25.78
EDGE 2 Tx slots	24.16	24.48	24.38
EDGE 3 Tx slots	22.78	22.91	22.70
EDGE 4 Tx slots	20.37	20.66	20.47



WCDMA Band V	Average Power (dBm)		
<b>TX Channel</b>	<b>4132</b>	<b>4182</b>	<b>4233</b>
<b>Frequency (MHz)</b>	<b>826.4</b>	<b>836.4</b>	<b>846.6</b>
AMR 12.2Kbps	22.38	22.33	22.37
RMC 12.2Kbps	22.34	22.35	22.39
HSDPA Subtest-1	21.21	21.17	21.18
HSDPA Subtest-2	21.14	21.15	21.19
HSDPA Subtest-3	20.71	20.91	20.66
HSDPA Subtest-4	20.74	20.88	20.67
HSUPA Subtest-1	21.32	21.35	21.34
HSUPA Subtest-2	19.42	19.55	19.34
HSUPA Subtest-3	20.41	20.57	20.33
HSUPA Subtest-4	19.43	19.57	19.32
HSUPA Subtest-5	21.32	21.36	21.33

WCDMA Band II	Average Power (dBm)		
<b>TX Channel</b>	<b>9262</b>	<b>9400</b>	<b>9538</b>
<b>Frequency (MHz)</b>	<b>1852.4</b>	<b>1880.0</b>	<b>1907.6</b>
AMR 12.2Kbps	22.28	22.37	22.38
RMC 12.2Kbps	22.23	22.38	22.39
HSDPA Subtest-1	21.87	22.21	22.04
HSDPA Subtest-2	21.85	22.14	22.04
HSDPA Subtest-3	21.34	21.63	21.53
HSDPA Subtest-4	21.31	21.66	21.54
HSUPA Subtest-1	21.48	21.84	21.72
HSUPA Subtest-2	19.46	19.81	19.75
HSUPA Subtest-3	20.51	20.85	20.72
HSUPA Subtest-4	19.49	19.83	19.71
HSUPA Subtest-5	21.48	21.82	21.71

WCDMA Band IV	Average Power (dBm)		
TX Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
AMR 12.2Kbps	22.14	22.10	22.03
RMC 12.2Kbps	22.12	22.16	22.05
HSDPA Subtest-1	21.87	22.21	22.04
HSDPA Subtest-2	21.85	22.14	22.04
HSDPA Subtest-3	21.34	21.63	21.53
HSDPA Subtest-4	21.31	21.66	21.54
HSUPA Subtest-1	21.48	21.84	21.72
HSUPA Subtest-2	19.46	19.81	19.75
HSUPA Subtest-3	20.51	20.85	20.72
HSUPA Subtest-4	19.49	19.83	19.71
HSUPA Subtest-5	21.48	21.82	21.71

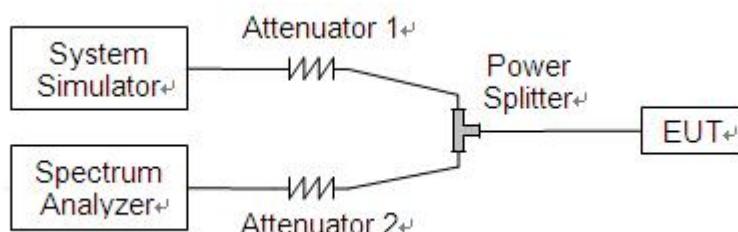
## 2.2. Peak to Average Ratio

### 2.2.1. Requirement

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

### 2.2.2. Test Description

Test Setup:



The EUT 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.

### 2.2.3. Test procedure

1 .For GSM/EDGE operating mode:

- a. Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
- b. Set EUT in maximum output power, and triggered the burst signal.
- c. Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average ratio.

2. For UMTS operating mode:

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

### 2.2.4. Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

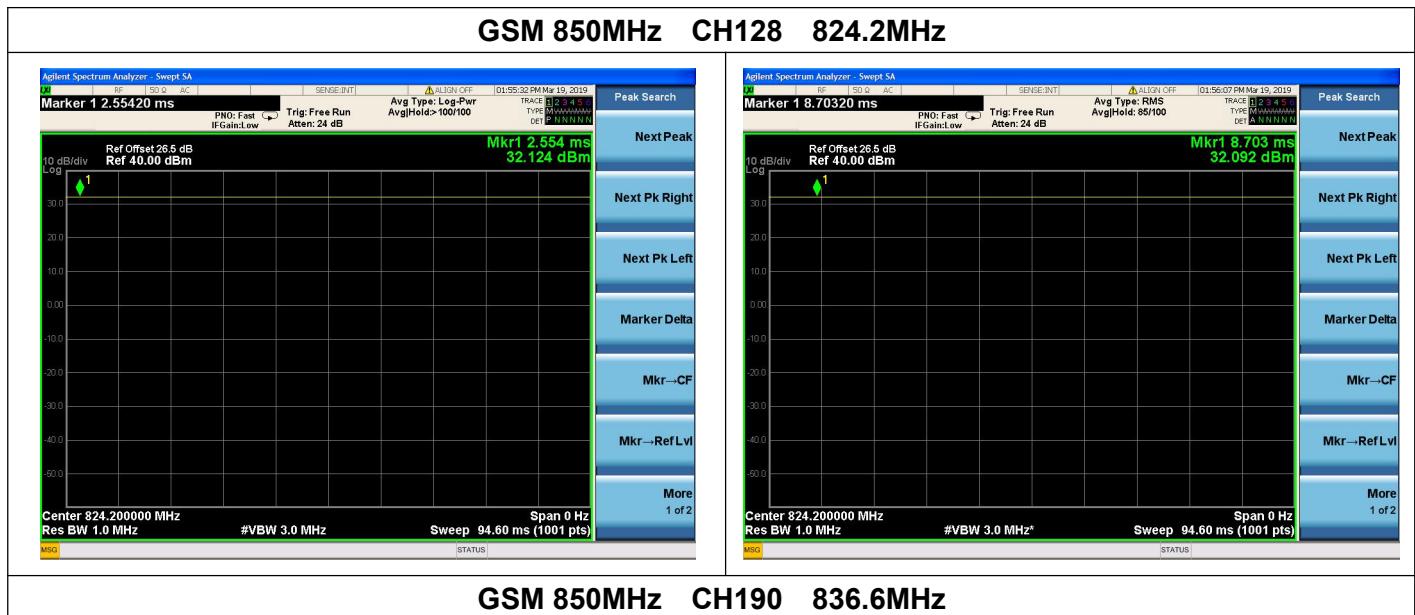
#### A. Test Verdict:

Band	Channel	Frequency (MHz)	Peak to Average ratio		Limit dB	Verdict
				dB		
GSM 850MHz	128	824.2	0.032		13	PASS
	190	836.6	0.027			PASS
	251	848.8	0.033			PASS
GSM 1900MHz	512	1850.2	0.036		13	PASS
	661	1880.0	0.039			PASS
	810	1909.8	0.017			PASS
EDGE 850MHz	128	824.2	1.035		13	PASS
	190	836.6	1.198			PASS
	251	848.8	1.324			PASS
EDGE 1900MHz	512	1850.2	1.311		13	PASS
	661	1880.0	1.142			PASS
	810	1909.8	1.312			PASS



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Band	Channel	Frequency (MHz)	Peak to Average ratio	Limit dB	Verdict
			dB		
WCDMA Band V	4132	826.4	2.99	13	PASS
	4182	836.4	2.72		PASS
	4233	846.6	2.88		PASS
WCDMA Band II	9262	1852.4	2.92	13	PASS
	9400	1880.0	2.94		PASS
	9538	1907.6	2.72		PASS
WCDMA Band IV	1312	1712.4	2.98	13	PASS
	1413	1732.6	2.89		PASS
	1513	1752.6	2.88		PASS

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## GSM 850MHz CH128 824.2MHz



## GSM 850MHz CH251 848.8MHz



## GSM 1900MHz CH512 1850.2MHz

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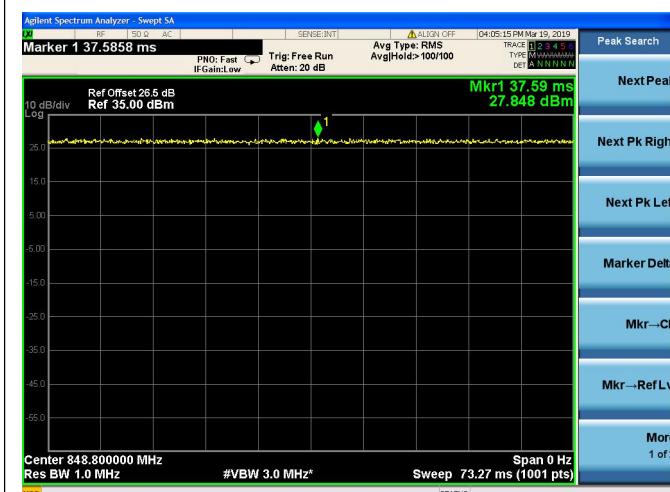
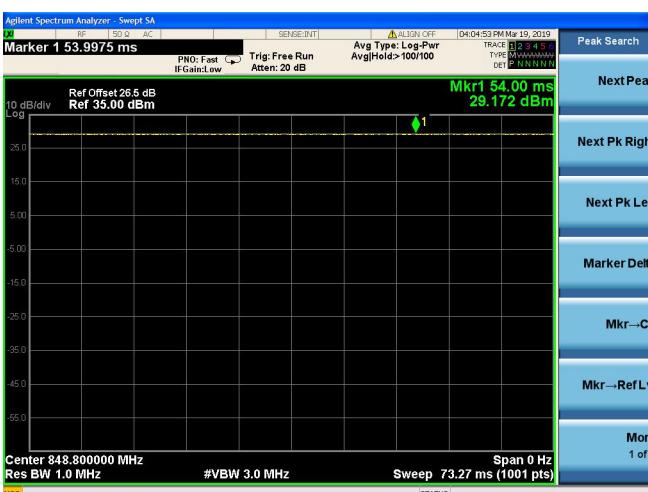
## GSM 850MHz CH128 824.2MHz



## EDGE 850MHz CH190 836.6MHz



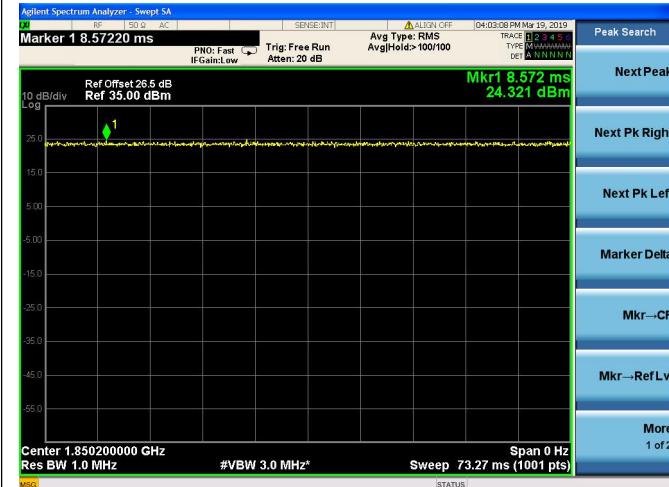
## EDGE 850MHz CH251 848.8MHz

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## EDGE 1900MHz CH512 1850.2MHz



## EDGE 1900MHz CH661 1880.0MHz

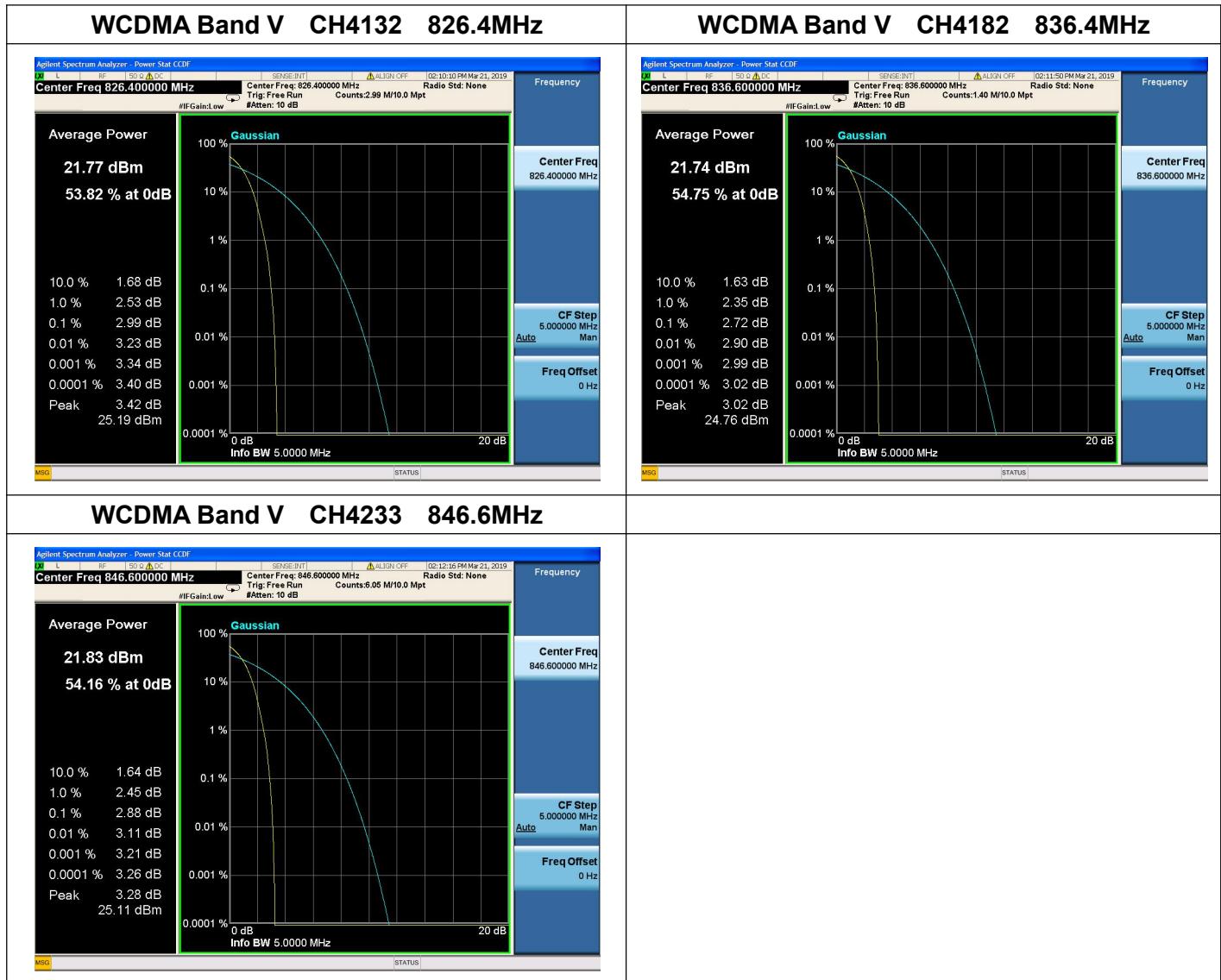


## EDGE 1900MHz CH810 1909.8MHz

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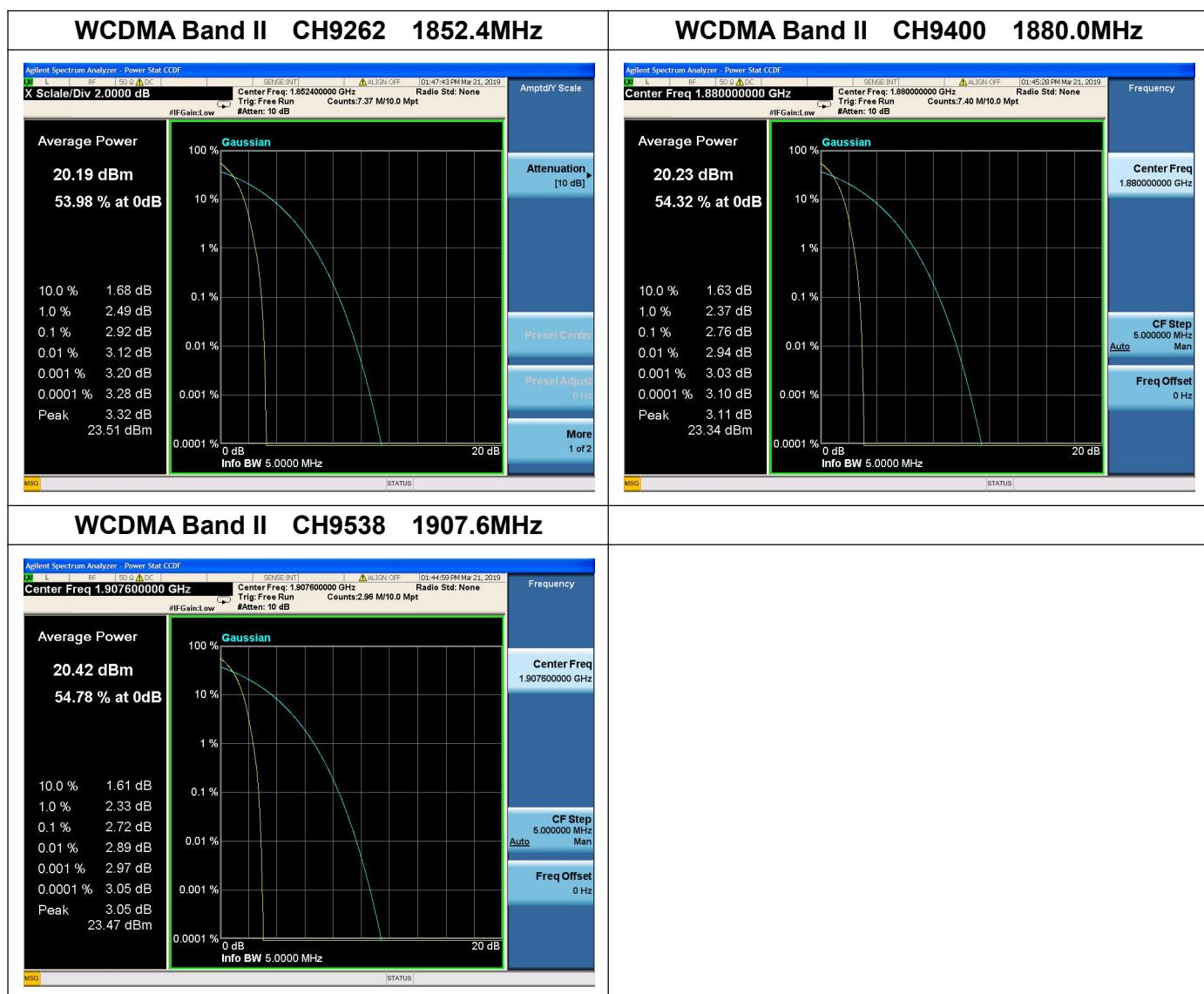
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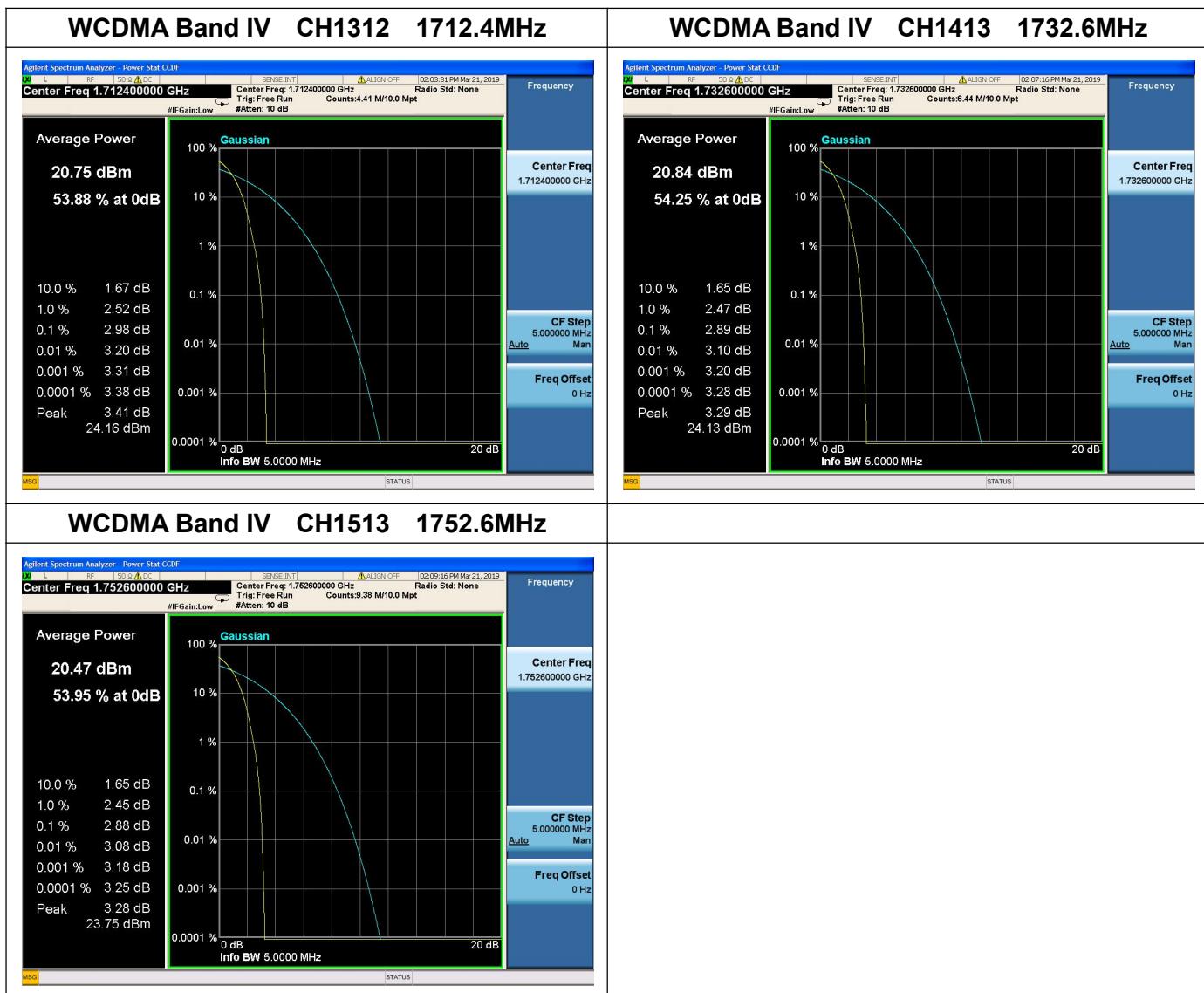
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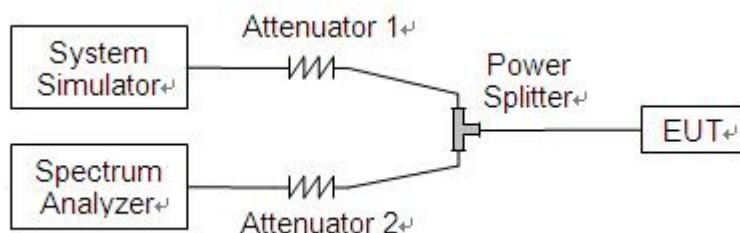
## 2.3.99% Occupied Bandwidth

### 2.3.1. Requirement

According to FCC section 2.1049, 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

Test Setup:



The EUT 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.



### 2.3.3. Test Result

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

#### GSM Test Verdict:

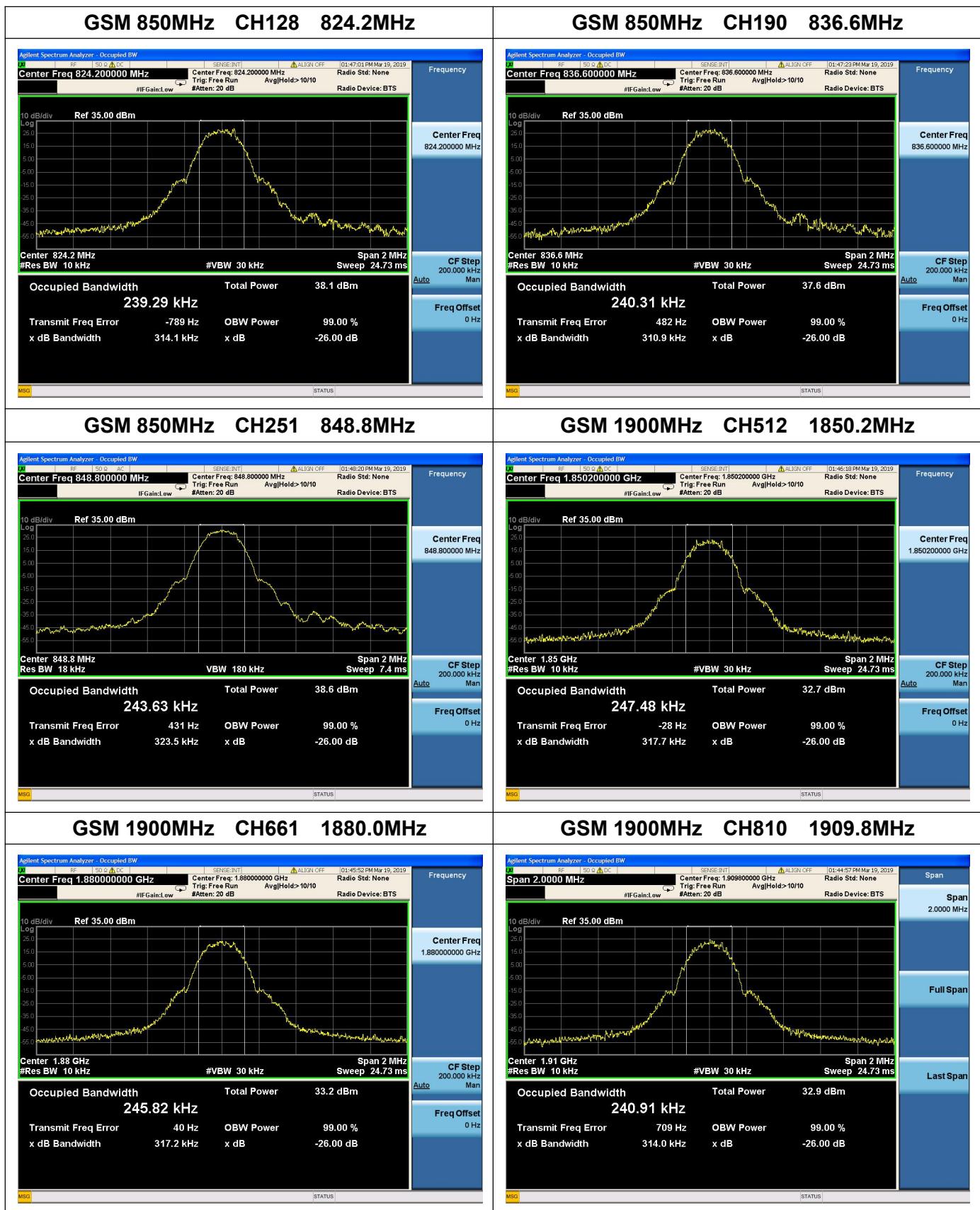
Band	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM 850MHz	128	824.2	239.29	314.1
	190	836.6	240.31	310.9
	251	848.8	243.63	323.5
GSM 1900MHz	512	1850.2	247.48	317.7
	661	1880.0	245.82	317.2
	810	1909.8	240.91	314.0
EDGE 850MHz	128	824.2	248.84	318.6
	190	836.6	245.56	313.7
	251	848.8	248.17	315.4
EDGE 1900MHz	512	1850.2	247.62	309.8
	661	1880.0	242.17	305.8
	810	1909.8	244.15	305.4

#### WCDMA Test Verdict:

Band	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA Band V	4132	826.4	4.149	4.669
	4182	836.4	4.160	4.658
	4233	846.6	4.148	4.676
WCDMA Band II	9262	1852.4	4.148	4.668
	9400	1880.0	4.159	4.663
	9538	1907.6	4.161	4.679
WCDMA Band IV	1312	1712.4	4.147	4.660
	1413	1732.6	4.157	4.693
	1513	1752.6	4.170	4.676



REPORT No.: SZ19020019W01

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