
TEST REPORT FOR WCDMA TESTING

Report No.: SRTC2022-9004(F)-22041301(B)

Product Name: LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone

Product Model: Z2336

Applicant: ZTE Corporation

Manufacturer: ZTE Corporation

Specification: FCC Part 24E, Part 22H, Part 27,Part 2 (2020)

FCC ID: SRQ-Z2336

The State Radio_monitoring_center Testing Center (SRTC)
15th Building, No.30 Shixing Street, Shijingshan District, Beijing, P.R.China

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1. GENERAL INFORMATION

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC). The test results relate only to individual items of the samples which have been tested. The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District, P.R.China
City:	Beijing
Country or Region:	P.R.China
Contacted person:	Liu Jia
Tel:	+86 10 57996183
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Email:	liujiaf@srtc.org.cn
Designation Number:	CN1267
Registration number:	239125

1.3 Applicant's details

Company:	ZTE Corporation
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.4 Manufacturer's details

Company:	ZTE Corporation
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.5 Factory's details

Company:	ZTE Corporation
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.6 Test Environment

Date of Receipt of test sample at SRTC:	2022-04-13
Testing Start Date:	2022-04-15
Testing End Date:	2022-05-06

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient:	25	40
Maximum Extreme:	55	---
Minimum Extreme:	-10	---

Normal Supply Voltage (V d.c.):	3.80
Maximum Extreme Supply Voltage (V d.c.):	4.35
Minimum Extreme Supply Voltage (V d.c.):	3.60

2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

Frequency Range:	WCDMA Band II: Tx:1852.4~1907.6MHz Rx:1932.4~1987.6MHz WCDMA Band IV: Tx:1712.4~1752.6MHz Rx:2112.4~2152.6MHz WCDMA Band V: Tx:826.4~846.6MHz Rx:871.4~891.6MHz
Mode:	HSDPA/HSUPA
Emission Designator:	4M50F9W
Duplex Mode:	FDD
Duplex Spacing:	WCDMA Band II:80MHz WCDMA Band IV:400MHz WCDMA Band V:45MHz
Antenna Type:	IFA + Monopole
Antenna Gain:	W2: -0.6dBi W4: -1.0dBi W5: -3.3dBi ERP = EIRP(Power+Gain) – 2.15 (dB)
Power Supply:	Charger
Software Revision:	Z2336_CCv1.0.0B01
Hardware Revision:	Z2336HW1.0
IMEI:	869096060002555

2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:N/A

3 REFERENCE SPECIFICATION

Specification	Version	Title
FCC Part2	2020	Frequency allocations and radio treaty matters; general rules and regulations
FCC Part22	2020	Public mobile services
FCC Part24	2020	Personal communications services
FCC Part27	2020	Miscellaneous wireless communications services
ANSI C63.26	2015	American national standard for compliance testing of transmitters used in licensed radio services
KDB 971168 D01	April 9, 2018	Measurement guidance for certification of licensed digital transmitters
TIA-603-E-2016	March 2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards


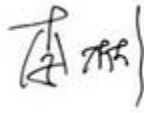

4 KEY TO NOTES AND RESULT CODES

The following are the definition of the test result.

Code	Meaning
PASS	Test result shows that the requirements of the relevant specification have been met.
FAIL	Test result shows that the requirements of the relevant specification have not been met.
NT	Normal Temperature
NV	Nominal voltage
HV	High voltage
LV	Low voltage

5 RESULT SUMMARY

No.	Test case	FCC reference	Verdict
1	RF Power Output	2.1046	Pass
2	Effective Radiated Power and Effective Isotropic Radiated Power	22.913(a),24.232(c),27.50(d)(4)	Pass
3	Occupied Bandwidth	2.1049	Pass
4	Emission Bandwidth	2.1049	Pass
5	Spurious Emissions at antenna terminal	2.1051,22.917(a),24.238(a),27.53(h)	Pass
6	Band Edges Compliance	2.1051,22.917(a),24.238(b),27.53(h)	Pass
7	Frequency Stability	2.1055,22.355,24.235,27.54	Pass
8	Radiated Spurious Emissions	2.1053,22.917(a),24.238(a),27.53(h)	Pass
9	Peak-Average Ratio	24.232(d),27.50(d) (5)	Pass

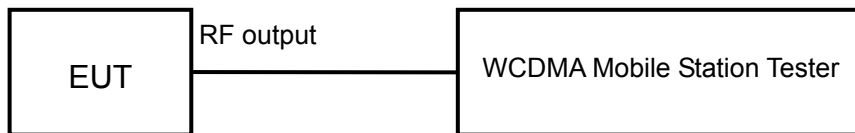
This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Mr. Li Bin 
Tested by: Mr. Du Wei 	Issued date: 20220507

6 TEST RESULT

6.1 RF Power Output

Rule Part(s):
2.1046

Test Setup:



Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. Then the test data can be read at the tester screen. The loss between RF output port of the EUT and the input port of the tester will be taken into consideration. The measurement will be conducted at three channels (Low, middle and High channels).

Limits: Limits: No specific conduct power requirements in part 2.1046.

Test result:

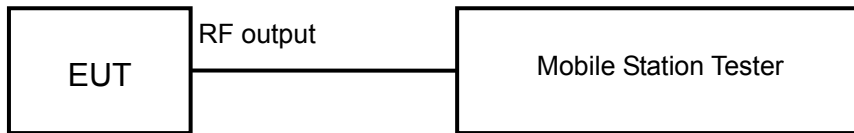
The test results are shown in Appendix A.

6.2 Effective Radiated Power and Effective Isotropic Radiated Power

Rule Part(s):

FCC: 22.913(a) (5), 24.232(c), 27.50(d) (4)

Test setup:



Test procedure:

KDB 971168 D01 v03r01 – Section 5.6

Test Settings

Subclause 5.2.5.5 of ANSI C63.26-2015 is applicable, along with the following provisions. For personal/portable radios utilizing an integral antenna, the factor LC is typically negligible. However, in a fixed station transmit system that utilizes a long cable run between the transmitter and the transmitting antenna, this factor can be significant. The minimum cable loss should be used in this equation.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$\text{ERP/EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

ERP/EIRP LIMIT

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP – 2.15 (dB).

22.913(a) (5)

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

24.232(c)

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

27.50(d) (4)

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

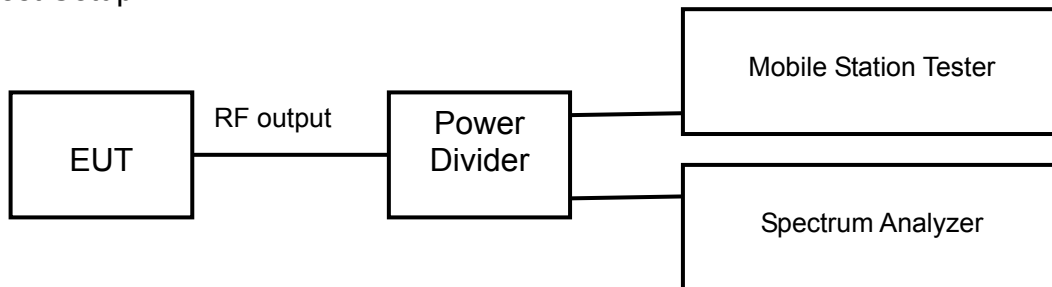
Test result:

The test results are shown in Appendix A.

6.3 Occupied Bandwidth

Rule Part(s):
FCC: 2.1049

Test Setup:



Test procedure:
KDB 971168 D01 v03r01 – Section 4.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

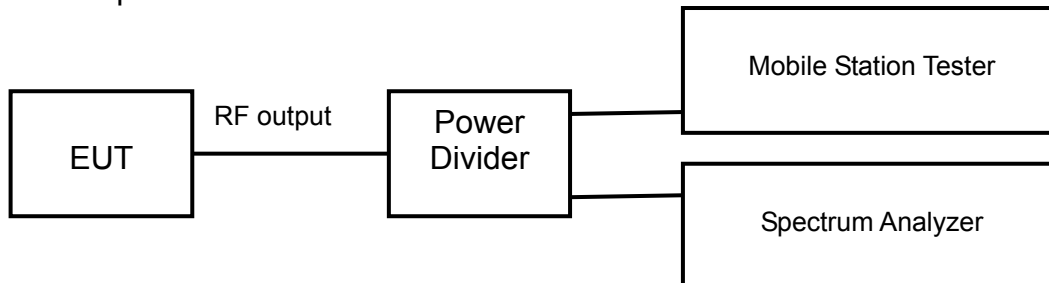
Test result:
The test results are shown in Appendix A.

6.4 Emission Bandwidth

Rule Part(s):

FCC: 2.1049

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 – Section 4.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 26dB occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW \geq 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the emission bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

Test result:

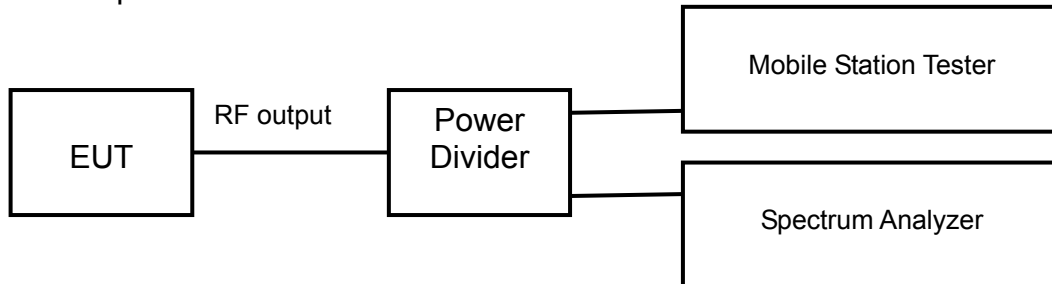
The test results are shown in Appendix A.

6.5 Spurious Emissions at antenna terminal

Rule Part(s):

FCC: 2.1051, 22.917(a), 24.238(a), 27.53(h)

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 10GHz for Cell, 20GHz for PCS
2. RBW=100 kHz (For below 1GHz), 1MHz (For above 1GHz)
3. VBW $\geq 3 \times$ RBW
4. Detector = RMS
5. Trace mode = trace average for continuous emissions, max hold for pulse emissions
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Limits:

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P_{\text{[Watts]}})$, where P is the transmitter power in Watts.

Test result:

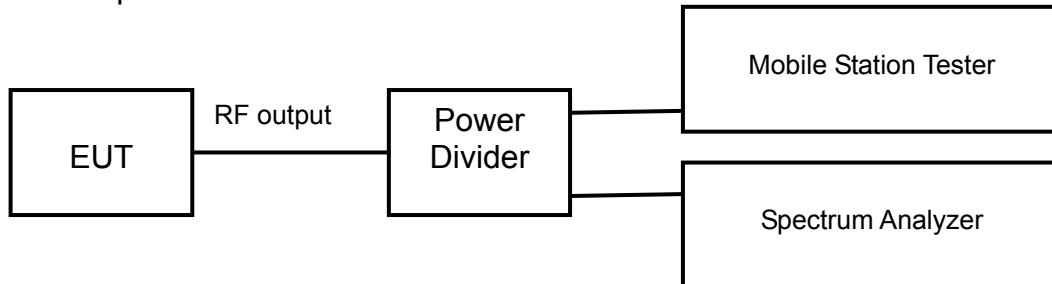
The test results are shown in Appendix A.

6.6 Band Edges Compliance

Rule Part(s)

FCC: 2.1051, 22.917(a), 24.238(a), 27.53(c)

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span=2MHz
3. RBW > 1% of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/\text{RBW}$
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Limit: The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P)$ [Watts], where P is the transmitter power in Watts.

Test result:

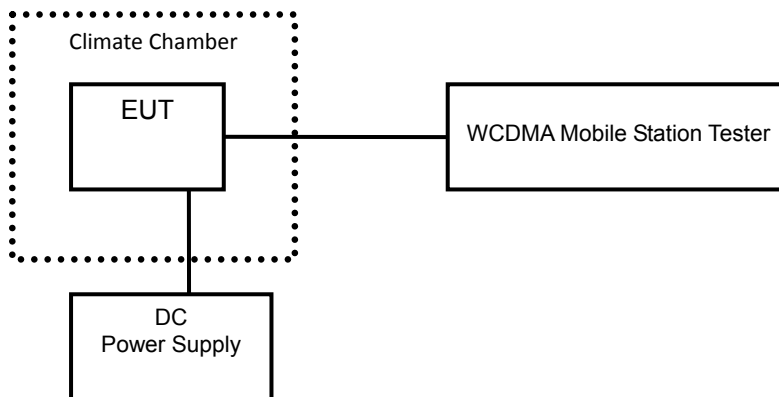
The test results are shown in Appendix A.

6.7 Frequency Stability

Rule Part(s)

FCC: 2.1055, 22.355, 24.235, 27.54

Test setup:



Test Procedure:

ANSI/TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C (The temperature range can be declared by the manufacturer). A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Limits: For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test result:

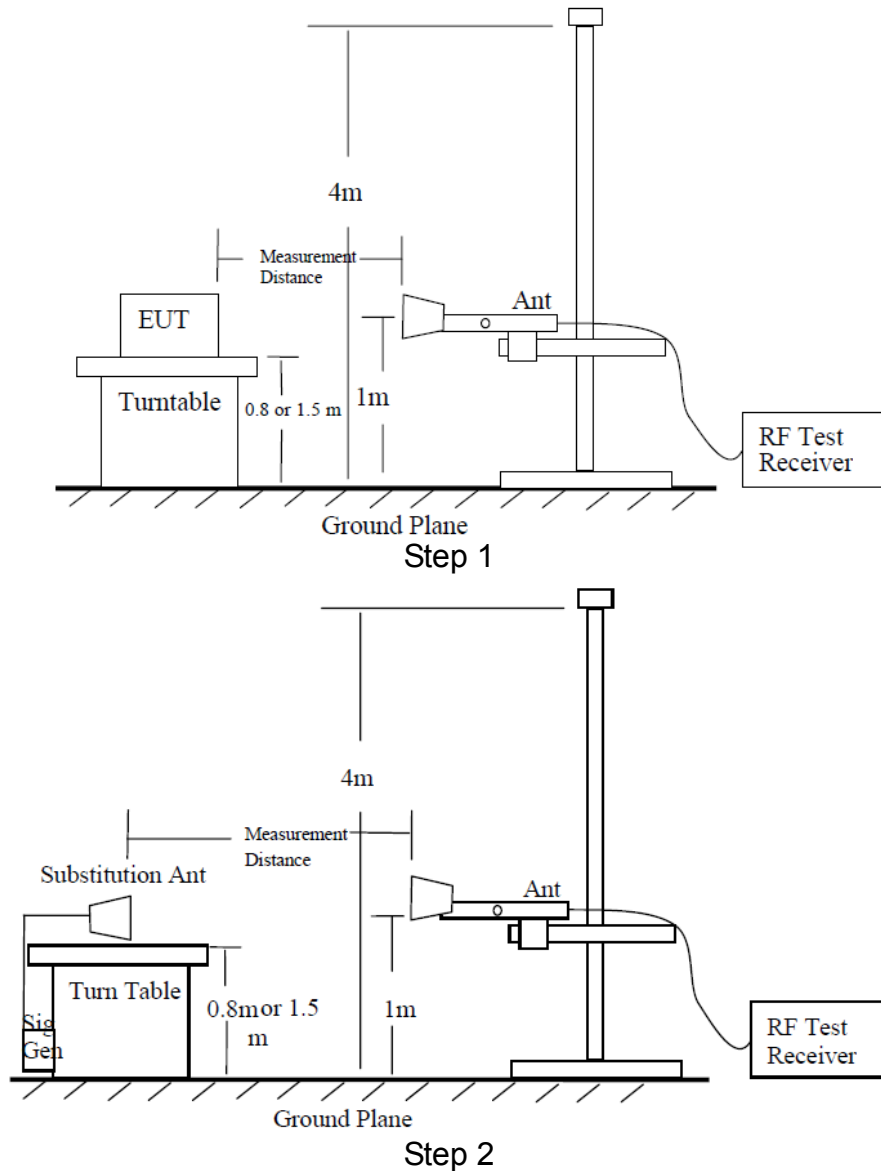
The test results are shown in Appendix A.

6.8 Radiated Spurious Emissions

Rule Part(s)

FCC: 2.1053, 22.917(a), 24.238(a), 27.53(h)

Test Setup:



Test procedure:

The measurements procedures in TIA-603-E-2016 are used.

The spectrum was scanned from 30MHz to the 10th harmonic of the highest frequency generated within the equipment.

Step 1:

The measurement is carried out in the chamber. EUT was placed on a 0.8m ($f < 1\text{GHz}$)/ 1.5m ($f > 1\text{GHz}$) high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The

height of receiving antenna from 1m to 4m and varies in certain range to find the maximum power value. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used and RBW is set to 100 kHz ($f < 1\text{GHz}$)/1MHz ($f > 1\text{GHz}$). The antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum power value on spectrum analyzer or receiver. The spectrum analyzer scans from 30MHz to 10th harmonic of the carrier. A notch filter is necessary in the band near to the carrier frequency. A high pass filter is needed to avoid the distortion of the testing equipment in the band above the carrier frequency.

Step 2:

A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

A power (P_{mea}) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

A "reference path loss" should be calculated after test. The attenuation of "reference path loss" is the cable loss between the Signal Source with the Substitution Antenna (P_{ca}) and the Substitution Antenna Gain (G_a).

Calculation procedure:

The data of cable loss and antenna gain has been calibrated in full testing frequency range before the testing.

The power of the Radiated Spurious Emissions is calculated by adding the cable loss and antenna gain. The basic equation with a sample calculation is as followed:

$$\text{Power (EIRP)} = P_{mea} + P_{ca} + G_a$$

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15 \text{ (dB)}$.

Assumed the power of signal source record is -20dBm. A cable loss of -30dB, and an antenna gain of 11dB are added.

$$P = P_{mea} + P_{ca} + G_a = (-20\text{dBm}) + (-30\text{dB}) + (11\text{dB}) = -39\text{dBm}$$

Note: We tested both horizontal and vertical polarization, but only the largest numerical polarity of the two polarities was recorded in the final report.

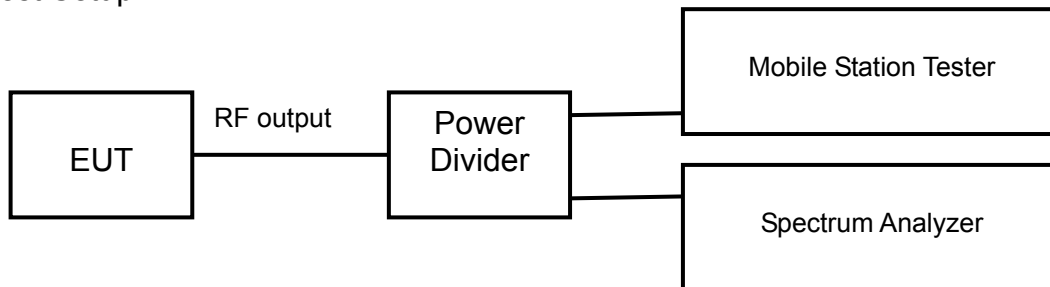
Test result:

The test results are shown in Appendix B.

6.9 Peak-Average Ratio

Rule Part(s)
FCC: 24.232(d), 27.50(d) (5)

Test Setup:



Test procedure:
KDB 971168 D01 v03r01 – Section 5.7.1

Test settings:

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Limits: the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test result:

The test results are shown in Appendix A

7 MEASUREMENT UNCERTAINTIES

Items	Uncertainty	
RF Power Output	0.6 dB	
Effective Radiated Power and Effective Isotropic Radiated Power	0.6 dB	
Occupied Bandwidth	3kHz	
Emission Bandwidth	3kHz	
Peak-Average Ratio	0.8dB	
Frequency Stability	48Hz	
Band Edges Compliance	1.2dB	
Spurious Emissions at antenna terminal	9kHz~2GHz	1.2dB
	2G~3.6GHz	1.4dB
	3.6G~8GHz	2.2dB
	8G~12.75GHz	2.7dB
Radiated Emission Measurement	30MHz~200MHz	4.88dB
	200MHz~1GHz	4.87dB
	1GHz~18GHz	4.58dB
	18GHz~40GHz	4.35dB

8 TEST EQUIPMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Date	Calibration Due Date
1	Mobile Station Tester / MT8820C	Anritsu	6201300660	2021.06.21	2022.06.20
2	Radio Communication Station / CMW500	R&S	161702	2021.06.21	2022.06.20
3	Spectrum Analyzer / FSV40	R&S	101065	2021.06.21	2022.06.20
4	Spectrum Analyzer / N9020A	Agilent	MY48010771	2021.05.18	2022.05.17
5	Power Divider / 11667A	HP	19632	2021.06.21	2022.06.20
6	DC Power Supply / E3645A	Agilent	MY40000741	2022.04.22	2023.04.21
7	Temperature chamber / SH241	ESPEC	92013758	2021.06.21	2022.06.20
8	Fully-Anechoic Chamber / 12.65m×8.03m×7.50m	FRANKONIA	----	----	----
9	Semi-Anechoic/Chamber / 23.18m×16.88m×9.60m	FRANKONIA	---	----	----
10	Turn table Diameter:1m	FRANKONIA	----	----	----
11	Turn table Diameter:5m	FRANKONIA	----	----	----
12	Antenna master FAC(MA4.0)	MATURO	----	----	----
13	Antenna master SAC(MA4.0)	MATURO	----	----	----
14	Shielding room / 9.080m×5.255m×3.525m	FRANKONIA	----	----	----
15	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100512	2021.06.21	2022.06.20
16	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100513	2021.06.21	2022.06.20
17	Ultra log antenna / HL562	R&S	100016	2021.06.21	2022.06.20
18	Receive antenna /3160-09	SCHWARZ-BECK	002058-002	2021.06.21	2022.06.20
19	EMI test receiver / ESI 40	R&S	100015	2021.06.21	2022.06.20
20	EMI test receiver / ESCS30	R&S	100029	2021.06.21	2022.06.20
21	Receive antenna / HL562	R&S	100167	2021.06.21	2022.06.20
22	AMN / ENV216	R&S	3560.6550.12	2021.06.21	2022.06.20

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

WCDMA band II

1. RF Power Output

WCDMA band II

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1852.4	9262	23.73
Release 99	RMC,12.2kbps	1880	9400	23.66
Release 99	RMC,12.2kbps	1907.6	9538	23.91

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSDPA	Subtest1	1852.4	9262	22.79
HSDPA	Subtest1	1880	9400	22.63
HSDPA	Subtest1	1907.6	9538	22.86
HSDPA	Subtest2	1852.4	9262	22.57
HSDPA	Subtest2	1880	9400	22.37
HSDPA	Subtest2	1907.6	9538	22.62
HSDPA	Subtest3	1852.4	9262	22.39
HSDPA	Subtest3	1880	9400	22.26
HSDPA	Subtest3	1907.6	9538	22.48
HSDPA	Subtest4	1852.4	9262	22.4
HSDPA	Subtest4	1880	9400	22.26
HSDPA	Subtest4	1907.6	9538	22.45

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSUPA	Subtest1	1852.4	9262	22.36
HSUPA	Subtest1	1880	9400	22.19
HSUPA	Subtest1	1907.6	9538	22.47
HSUPA	Subtest2	1852.4	9262	21.31
HSUPA	Subtest2	1880	9400	21.11
HSUPA	Subtest2	1907.6	9538	21.33
HSUPA	Subtest3	1852.4	9262	21.71
HSUPA	Subtest3	1880	9400	21.52
HSUPA	Subtest3	1907.6	9538	20.96
HSUPA	Subtest4	1852.4	9262	21.72
HSUPA	Subtest4	1880	9400	21.73
HSUPA	Subtest4	1907.6	9538	22.03
HSUPA	Subtest5	1852.4	9262	22.21
HSUPA	Subtest5	1880	9400	22.08
HSUPA	Subtest5	1907.6	9538	22.35

2. Occupied Bandwidth

WCDMA band II

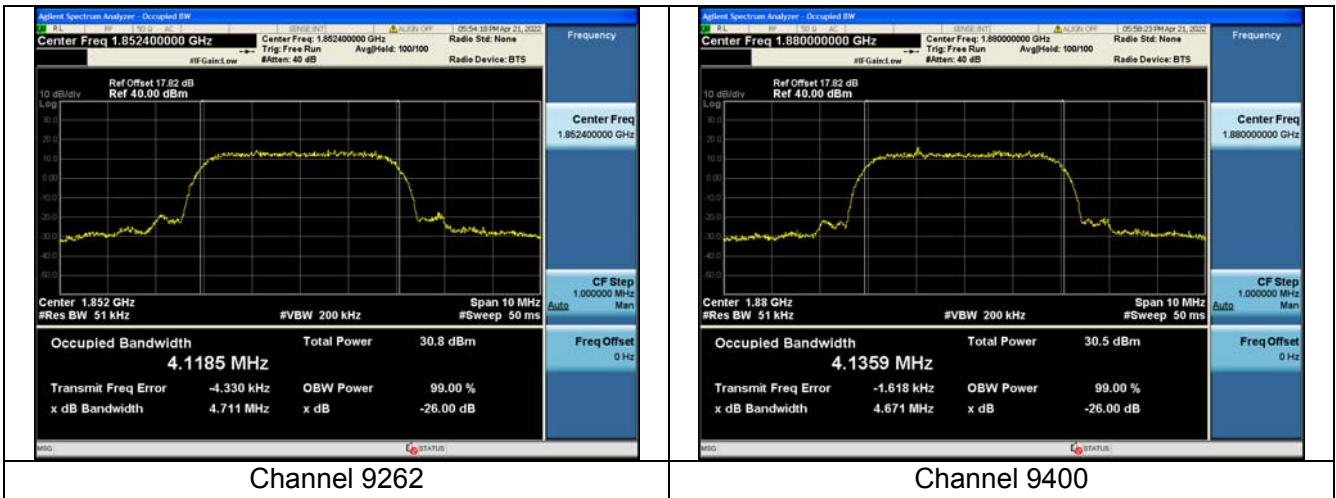
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
Release 99	1852.4	9262	4.13
Release 99	1880	9400	4.13
Release 99	1907.6	9538	4.15

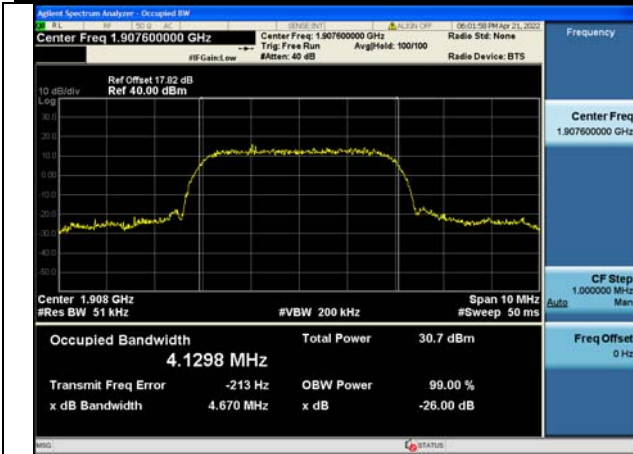
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSDPA	1852.4	9262	4.14
HSDPA	1880	9400	4.13
HSDPA	1907.6	9538	4.13

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSUPA	1852.4	9262	4.12
HSUPA	1880	9400	4.14
HSUPA	1907.6	9538	4.13

WCDMA band II

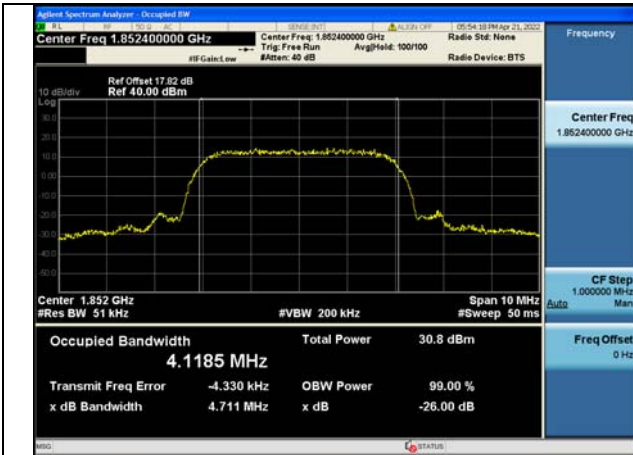
Test Mode: Release 99



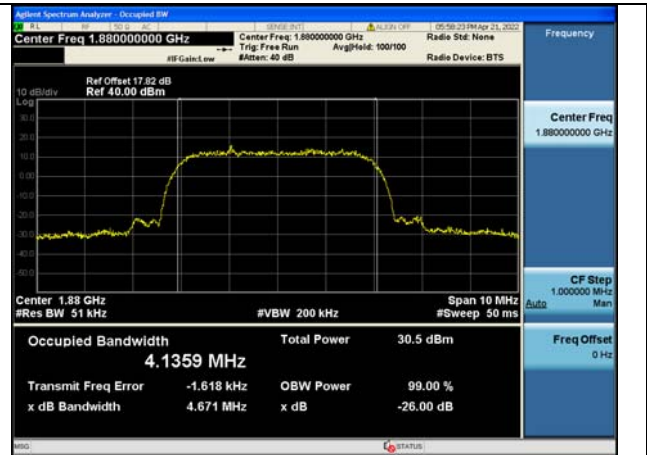


Channel 9538

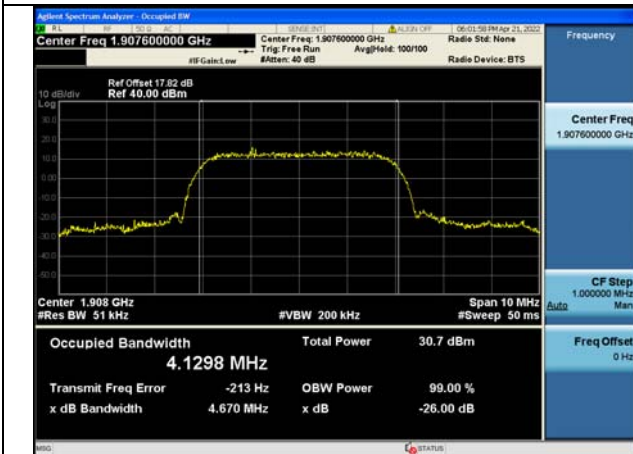
Test Mode: HSDPA



Channel 9262

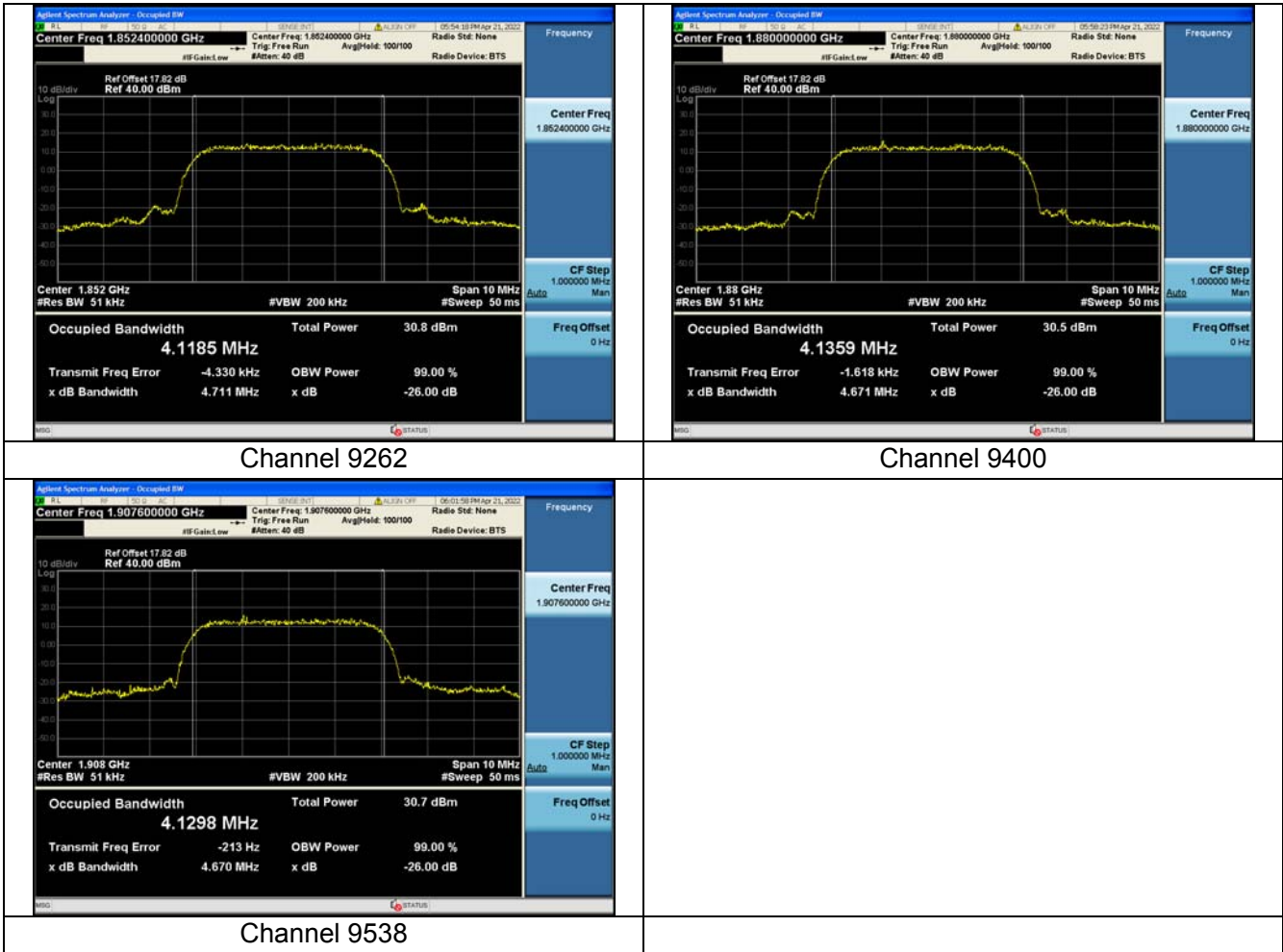


Channel 9400



Channel 9538

Test Mode: HSUPA



3. Emission Bandwidth

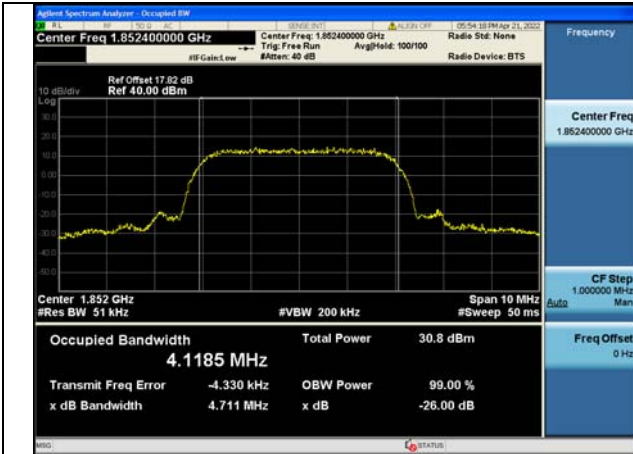
WCDMA band II

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
Release 99	1852.4	9262	4.68
Release 99	1880	9400	4.68
Release 99	1907.6	9538	4.74

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSDPA	1852.4	9262	4.7
HSDPA	1880	9400	4.68
HSDPA	1907.6	9538	4.67

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSUPA	1852.4	9262	4.71
HSUPA	1880	9400	4.67
HSUPA	1907.6	9538	4.67

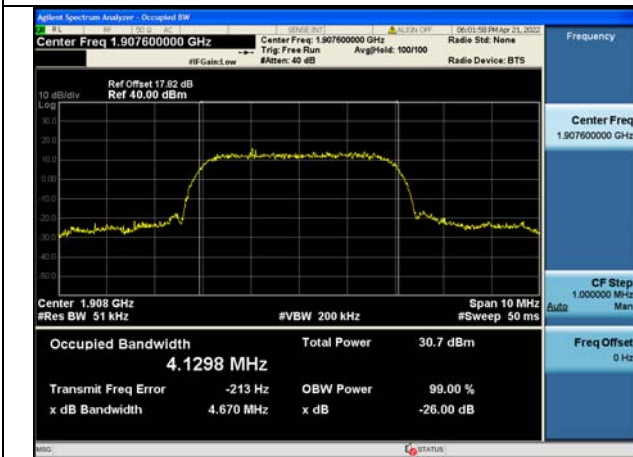
WCDMA band II
Test Mode: Release 99



Channel 9262

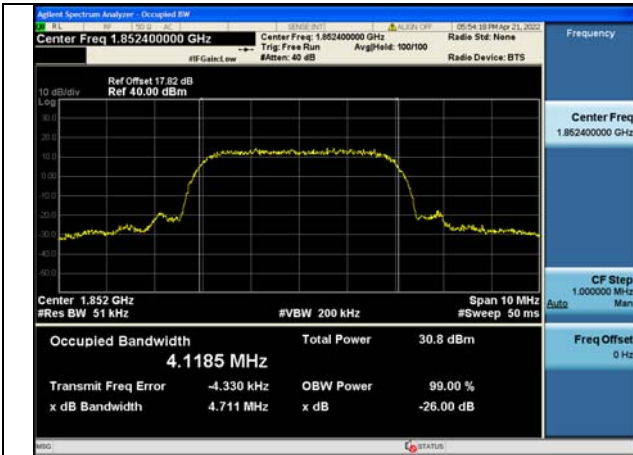


Channel 9400



Channel 9538

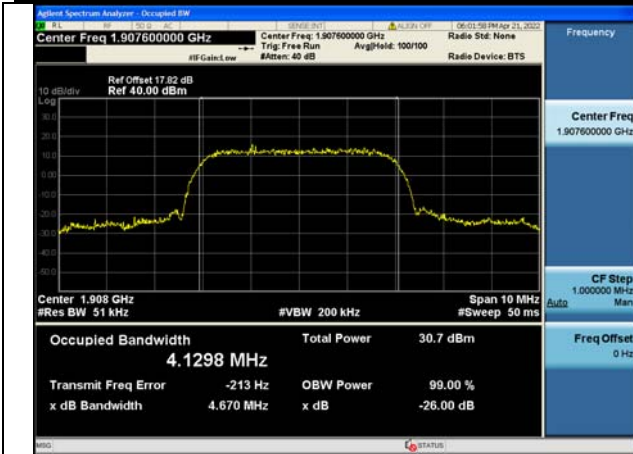
Test Mode: HSDPA



Channel 9262

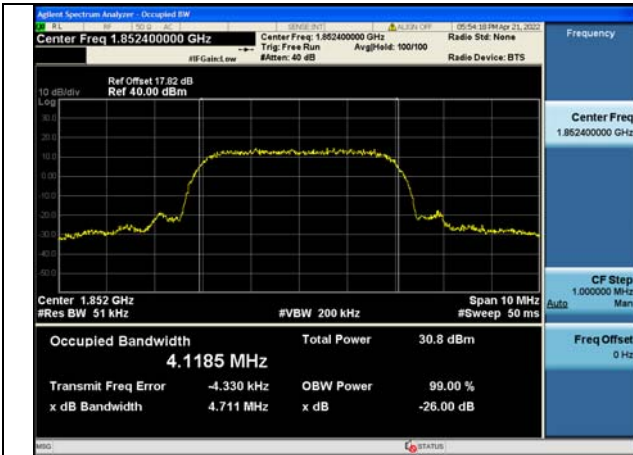


Channel 9400

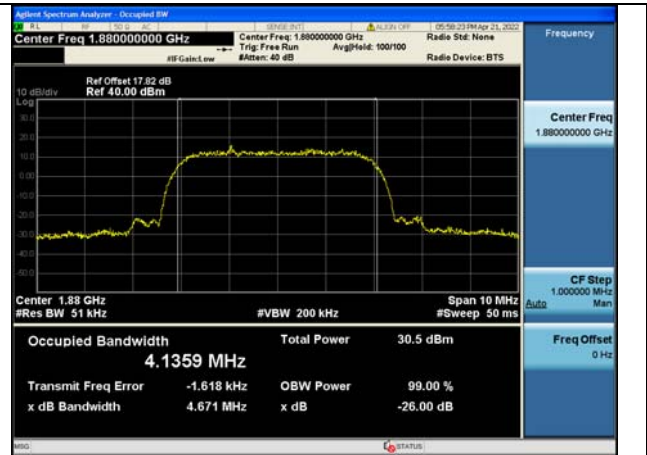


Channel 9538

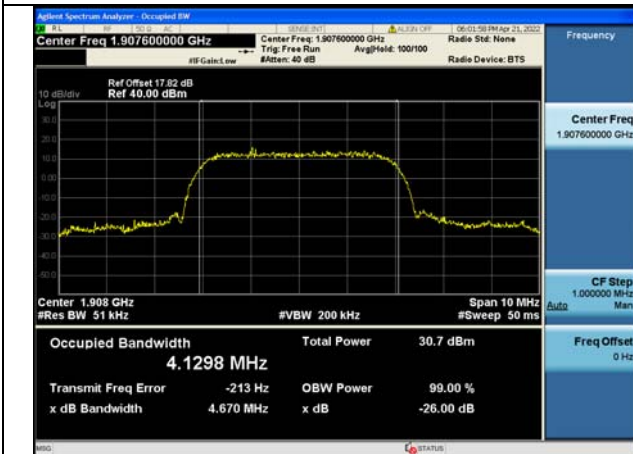
Test Mode: HSUPA



Channel 9262

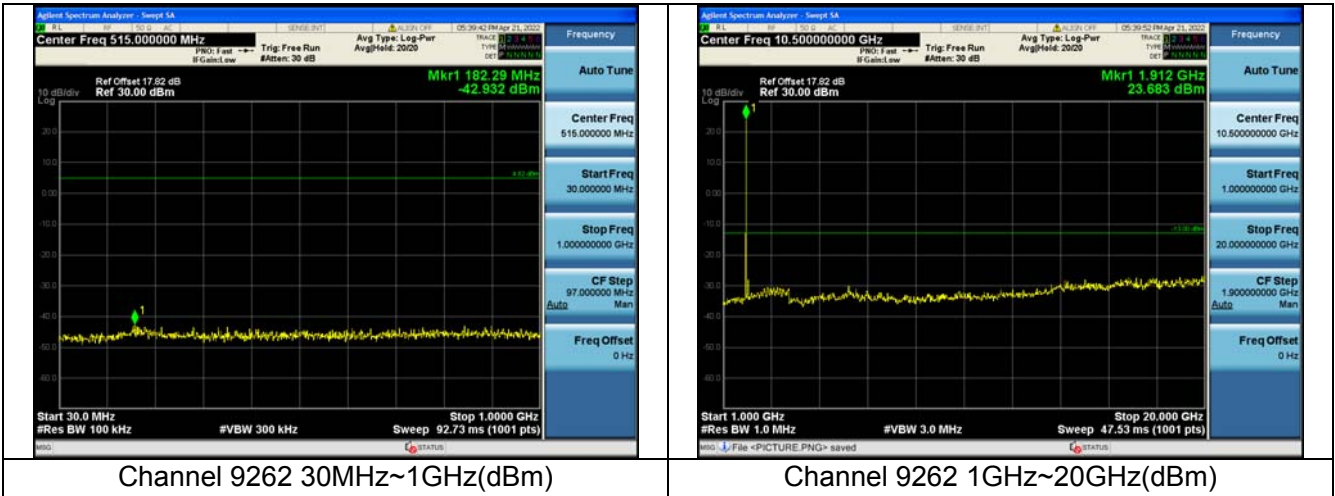


Channel 9400

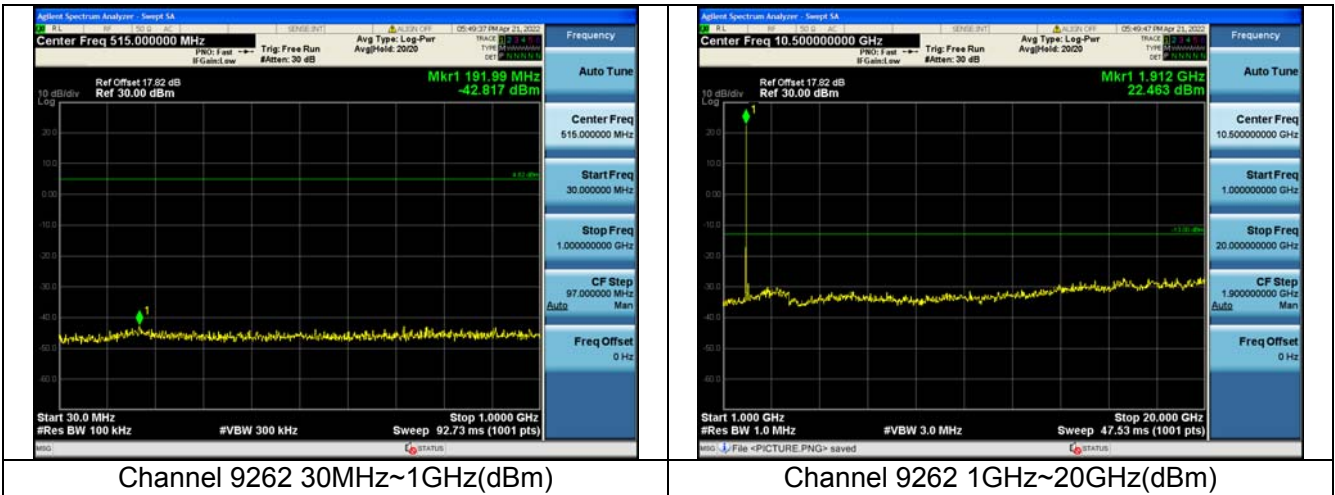


Channel 9538

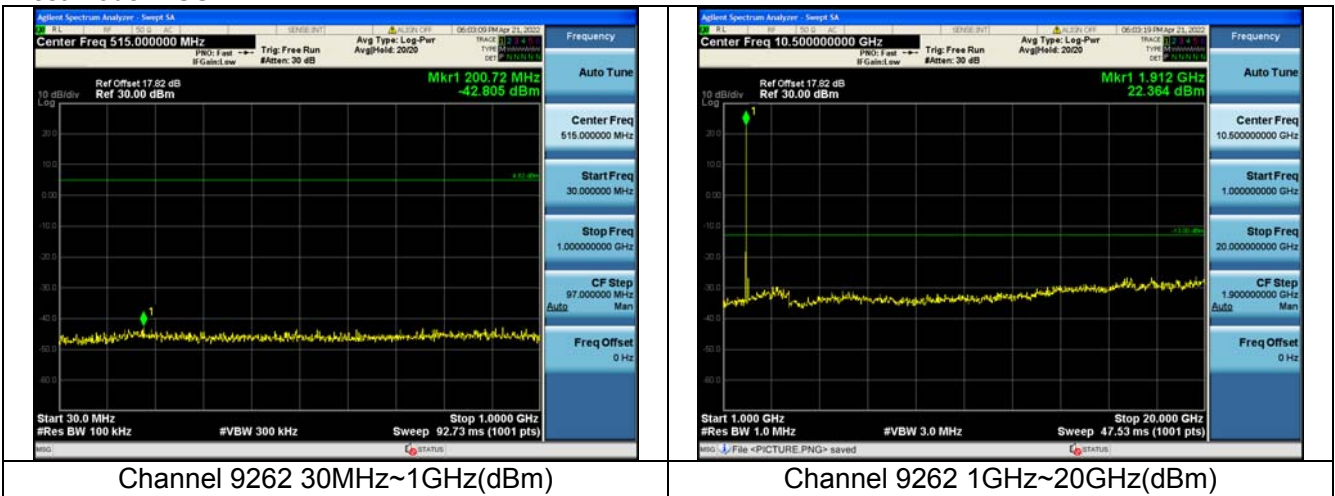
4. Spurious Emissions at antenna terminal
WCDMA band II
Test Mode: Release 99



Note: The signal beyond the limit is the signal transmitted by EUT.
Test Mode: HSDPA

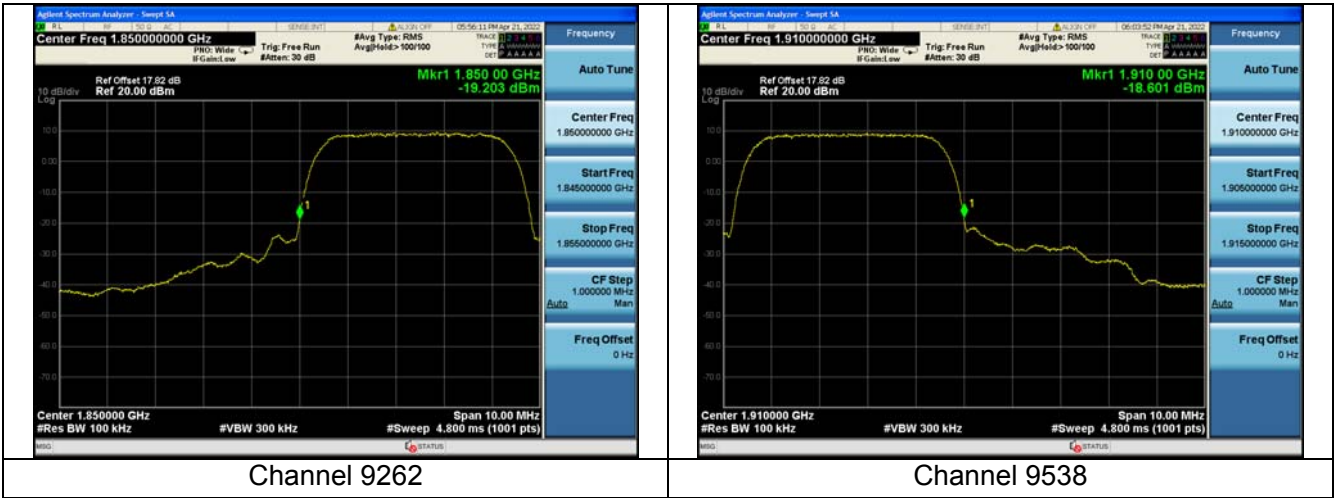


Note: The signal beyond the limit is the signal transmitted by EUT.
Test Mode: HSUPA

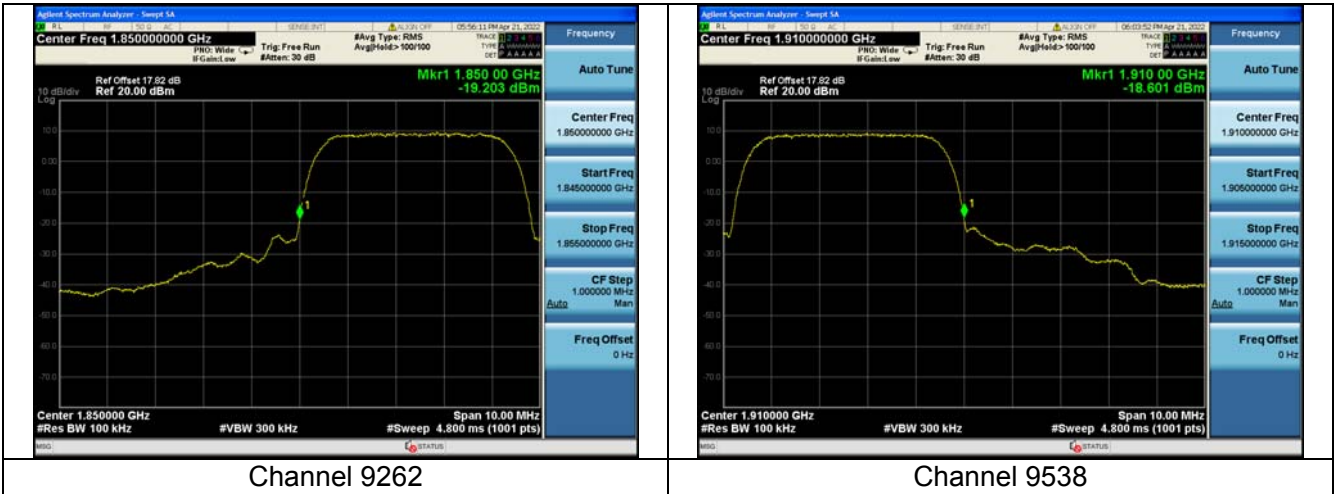


Note: The signal beyond the limit is the signal transmitted by EUT.

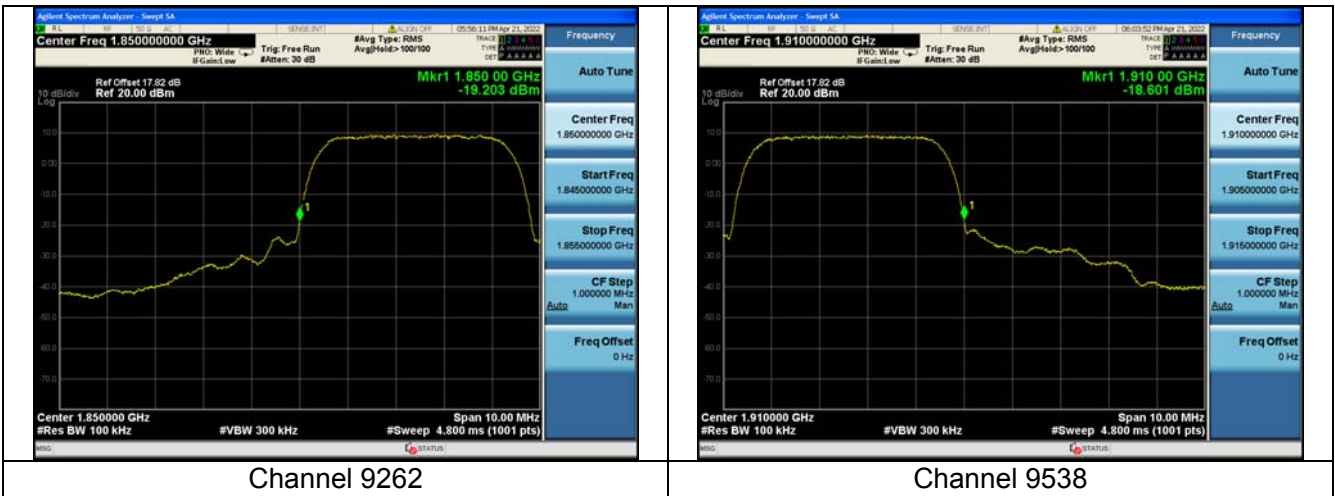
5. Band Edges Compliance
WCDMA band II
Test Mode: Release 99



Test Mode: HSDPA



Test Mode: HSUPA



6. Frequency Stability

WCDMA band II

Test Mode: Release 99

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 9262	Channel 9400	Channel 9538
Release 99	-10	0.032	-0.012	-0.069
Release 99	-0	-0.041	0.051	-0.026
Release 99	+10	0.057	0.057	-0.026
Release 99	+20	-0.058	-0.062	0.027
Release 99	+30	-0.012	-0.056	-0.014
Release 99	+40	-0.077	0.059	0.052
Release 99	+50	-0.018	0.035	0.019
Release 99	+55	0.010	0.076	0.077
Name	Voltage	Test Result (ppm)@NT		
		Channel 9262	Channel 9400	Channel 9538
Release 99	LV	-0.078	-0.015	-0.039
Release 99	HV	0.019	-0.039	0.052

Test Mode: HSDPA

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 9262	Channel 9400	Channel 9538
Subtest1	-10	0.020	0.056	-0.051
Subtest1	-0	0.070	-0.070	0.068
Subtest1	+10	-0.011	0.002	0.043
Subtest1	+20	-0.010	0.063	-0.077
Subtest1	+30	-0.079	0.030	-0.035
Subtest1	+40	-0.055	0.039	-0.011
Subtest1	+50	-0.029	0.011	-0.048
Subtest1	+55	-0.045	0.073	0.031
Name	Voltage	Test Result (ppm)@NT		
		Channel 9262	Channel 9400	Channel 9538
Subtest1	LV	-0.068	-0.020	0.052
Subtest1	HV	0.006	0.048	0.062

Test Mode: HSUPA

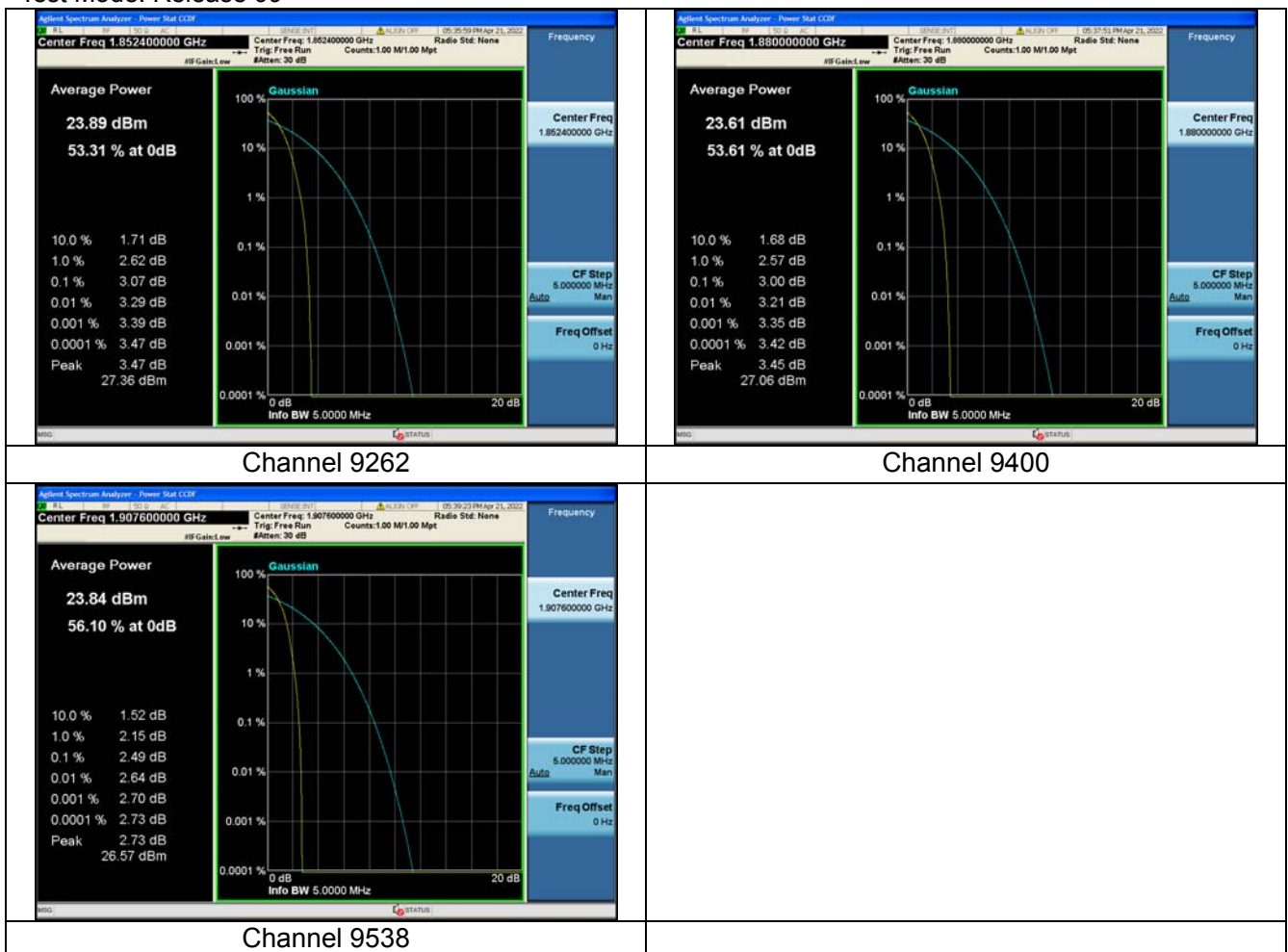
Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 9262	Channel 9400	Channel 9538
Subtest1	-10	0.023	0.058	0.079
Subtest1	-0	0.077	-0.018	-0.008
Subtest1	+10	-0.007	-0.007	0.037
Subtest1	+20	-0.011	-0.059	0.003
Subtest1	+30	-0.028	-0.074	0.020
Subtest1	+40	-0.063	-0.062	0.012
Subtest1	+50	0.010	-0.069	0.057
Subtest1	+55	-0.067	0.027	-0.014

Name	Voltage	Test Result (ppm)@NT		
		Channel 9262	Channel 9400	Channel 9538
Subtest1	LV	-0.057	0.030	-0.006
Subtest1	HV	0.071	0.038	-0.056

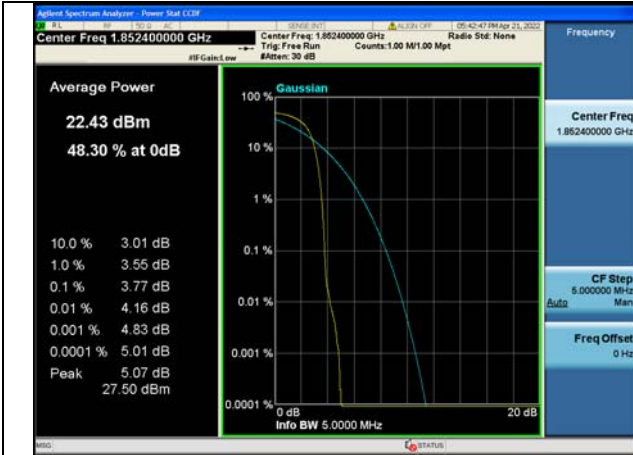
7. Peak-Average Ratio

WCDMA band II

Test Mode: Release 99



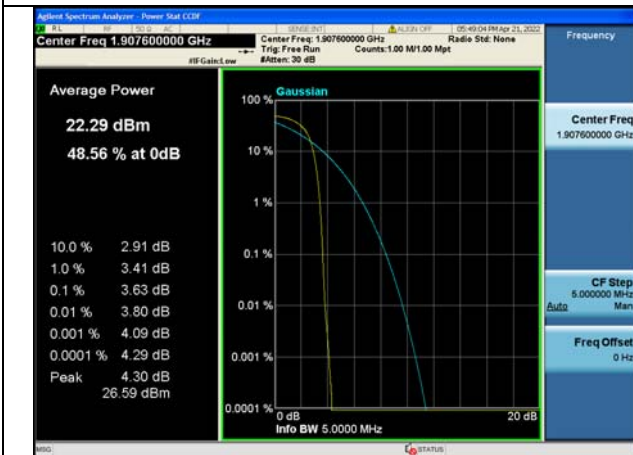
Test Mode: HSDPA



Channel 9262



Channel 9400



Channel 9538

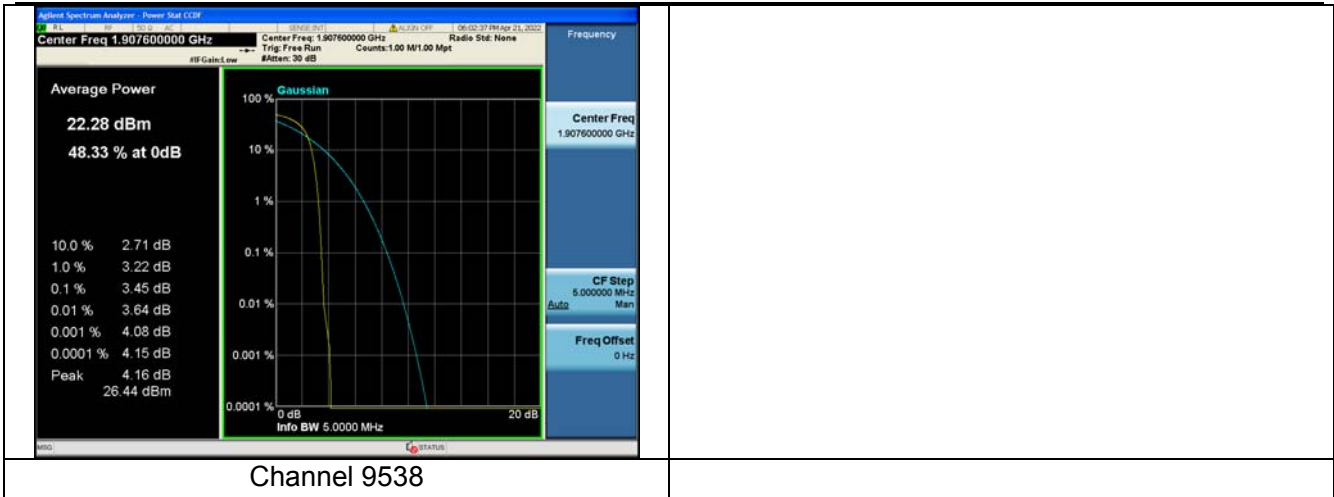
Test Mode: HSUPA



Channel 9262



Channel 9400



8. Effective Radiated Power and Effective Isotropic Radiated Power
WCDMA band II

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC,12.2kbps	1852.4	9262	23.73	23.13	0.206
Release 99	RMC,12.2kbps	1880	9400	23.66	23.06	0.202
Release 99	RMC,12.2kbps	1907.6	9538	23.91	23.31	0.214

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSDPA	Subtest1	1852.4	9262	22.79	22.19	0.166
HSDPA	Subtest1	1880	9400	22.63	22.03	0.160
HSDPA	Subtest1	1907.6	9538	22.86	22.26	0.168
HSDPA	Subtest2	1852.4	9262	22.57	21.97	0.157
HSDPA	Subtest2	1880	9400	22.37	21.77	0.150
HSDPA	Subtest2	1907.6	9538	22.62	22.02	0.159
HSDPA	Subtest3	1852.4	9262	22.39	21.79	0.151
HSDPA	Subtest3	1880	9400	22.26	21.66	0.147
HSDPA	Subtest3	1907.6	9538	22.48	21.88	0.154
HSDPA	Subtest4	1852.4	9262	22.4	21.80	0.151
HSDPA	Subtest4	1880	9400	22.26	21.66	0.147
HSDPA	Subtest4	1907.6	9538	22.45	21.85	0.153

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSUPA	Subtest1	1852.4	9262	22.36	21.76	0.150
HSUPA	Subtest1	1880	9400	22.19	21.59	0.144
HSUPA	Subtest1	1907.6	9538	22.47	21.87	0.154
HSUPA	Subtest2	1852.4	9262	21.31	20.71	0.118
HSUPA	Subtest2	1880	9400	21.11	20.51	0.112
HSUPA	Subtest2	1907.6	9538	21.33	20.73	0.118
HSUPA	Subtest3	1852.4	9262	21.71	21.11	0.129
HSUPA	Subtest3	1880	9400	21.52	20.92	0.124
HSUPA	Subtest3	1907.6	9538	20.96	20.36	0.109
HSUPA	Subtest4	1852.4	9262	21.72	21.12	0.129
HSUPA	Subtest4	1880	9400	21.73	21.13	0.130
HSUPA	Subtest4	1907.6	9538	22.03	21.43	0.139
HSUPA	Subtest5	1852.4	9262	22.21	21.61	0.145
HSUPA	Subtest5	1880	9400	22.08	21.48	0.141
HSUPA	Subtest5	1907.6	9538	22.35	21.75	0.150

WCDMA band IV

1. RF Power Output

WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1712.4	1312	23.94
Release 99	RMC,12.2kbps	1732.6	1412	23.95
Release 99	RMC,12.2kbps	1752.6	1513	24.02

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSDPA	Subtest1	1712.4	1312	22.78
HSDPA	Subtest1	1732.6	1412	23.08
HSDPA	Subtest1	1752.6	1513	22.95
HSDPA	Subtest2	1712.4	1312	22.58
HSDPA	Subtest2	1732.6	1412	22.79
HSDPA	Subtest2	1752.6	1513	22.64
HSDPA	Subtest3	1712.4	1312	22.48
HSDPA	Subtest3	1732.6	1412	22.58
HSDPA	Subtest3	1752.6	1513	22.6
HSDPA	Subtest4	1712.4	1312	22.48
HSDPA	Subtest4	1732.6	1412	22.68
HSDPA	Subtest4	1752.6	1513	22.6

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSUPA	Subtest1	1712.4	1312	22.39
HSUPA	Subtest1	1732.6	1412	22.69
HSUPA	Subtest1	1752.6	1513	22.53
HSUPA	Subtest2	1712.4	1312	21.92
HSUPA	Subtest2	1732.6	1412	21.51
HSUPA	Subtest2	1752.6	1513	21.87
HSUPA	Subtest3	1712.4	1312	21.53
HSUPA	Subtest3	1732.6	1412	21.88
HSUPA	Subtest3	1752.6	1513	21.55
HSUPA	Subtest4	1712.4	1312	22.1
HSUPA	Subtest4	1732.6	1412	21.52
HSUPA	Subtest4	1752.6	1513	22.16
HSUPA	Subtest5	1712.4	1312	22.41
HSUPA	Subtest5	1732.6	1412	22.42
HSUPA	Subtest5	1752.6	1513	22.45

2. Occupied Bandwidth

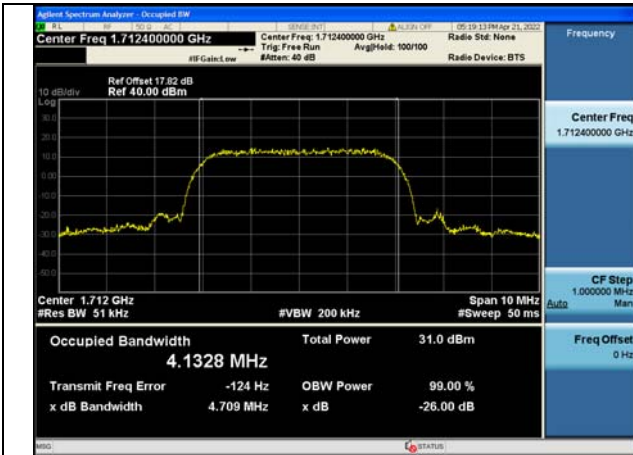
WCDMA band IV

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
Release 99	1712.4	1312	4.13
Release 99	1732.6	1412	4.12
Release 99	1752.6	1513	4.12

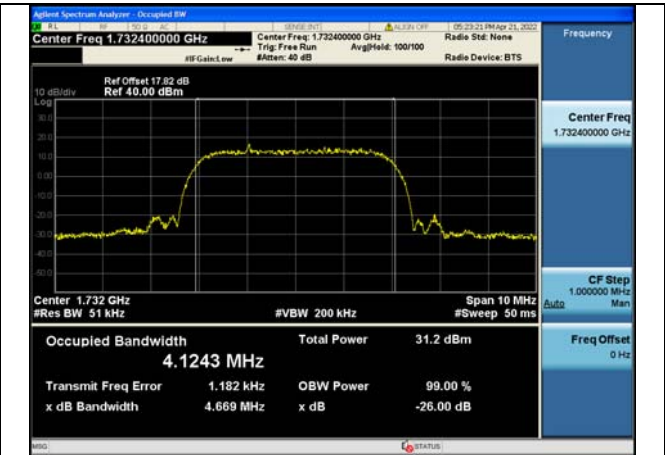
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSDPA	1712.4	1312	4.13
HSDPA	1732.6	1412	4.13
HSDPA	1752.6	1513	4.13

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSUPA	1712.4	1312	4.13
HSUPA	1732.6	1412	4.12
HSUPA	1752.6	1513	4.12

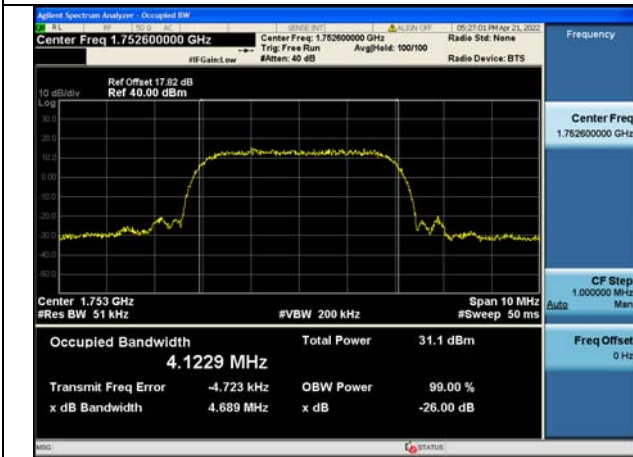
WCDMA band IV
Test Mode: Release 99



Channel 1312

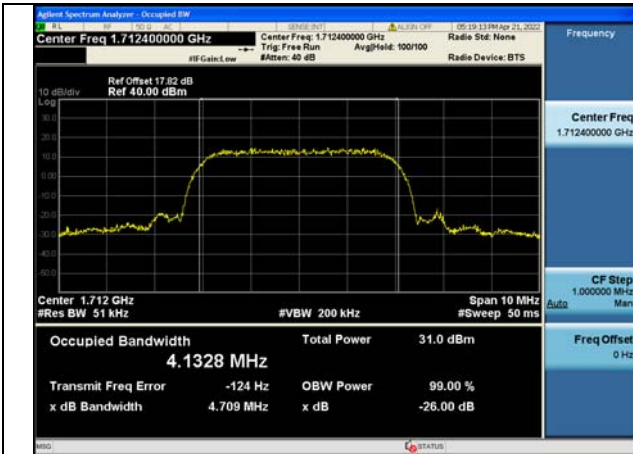


Channel 1412

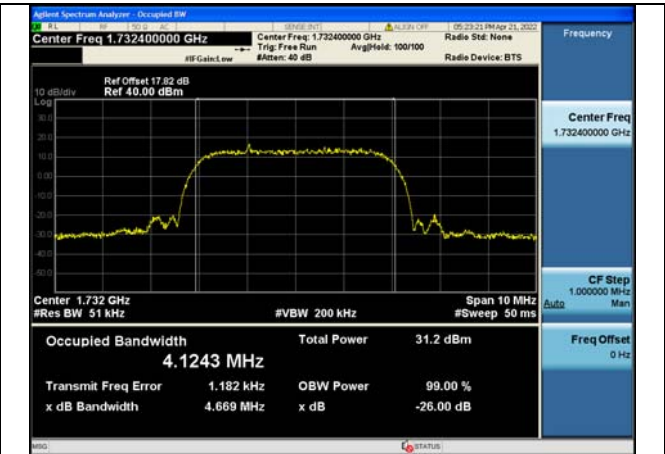


Channel 1513

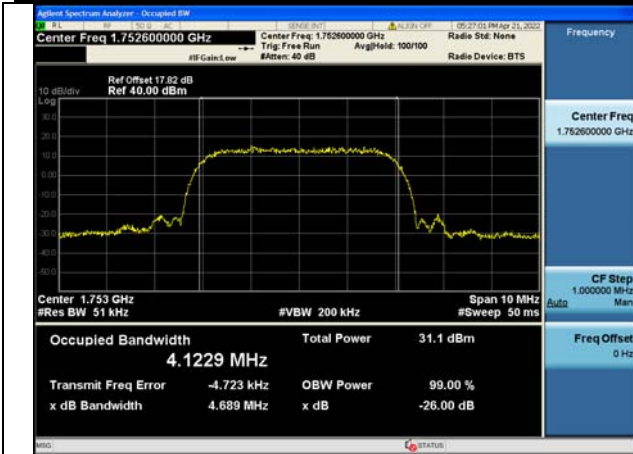
Test Mode: HSDPA



Channel 1312

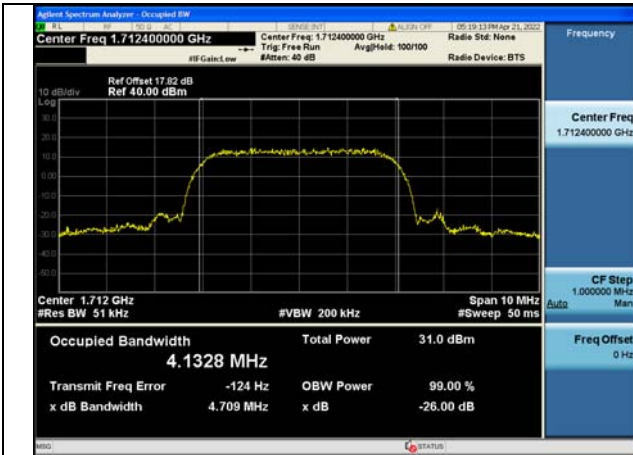


Channel 1412

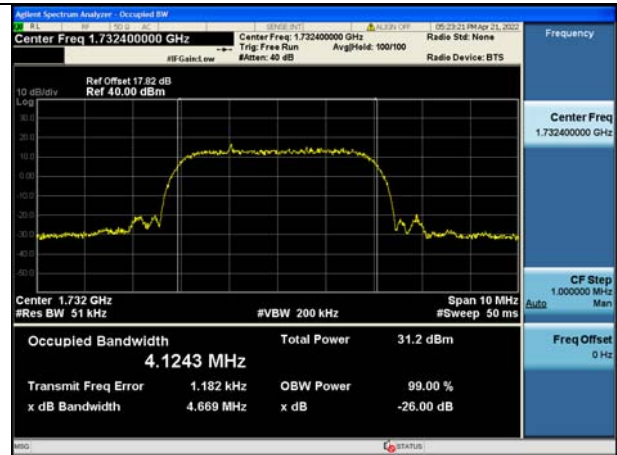


Channel 1513

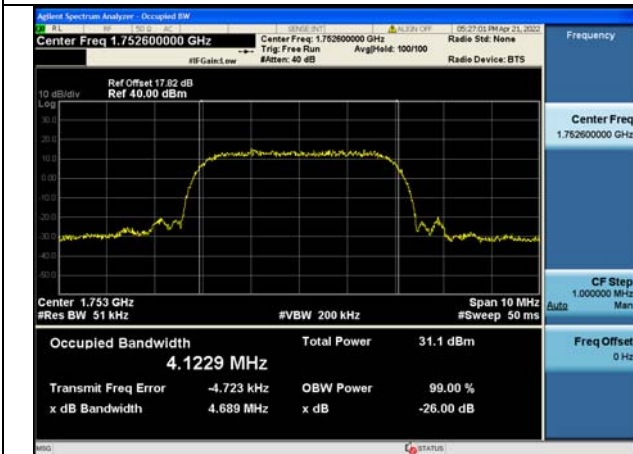
Test Mode: HSUPA



Channel 1312



Channel 1412



Channel 1513

3. Emission Bandwidth

WCDMA band IV

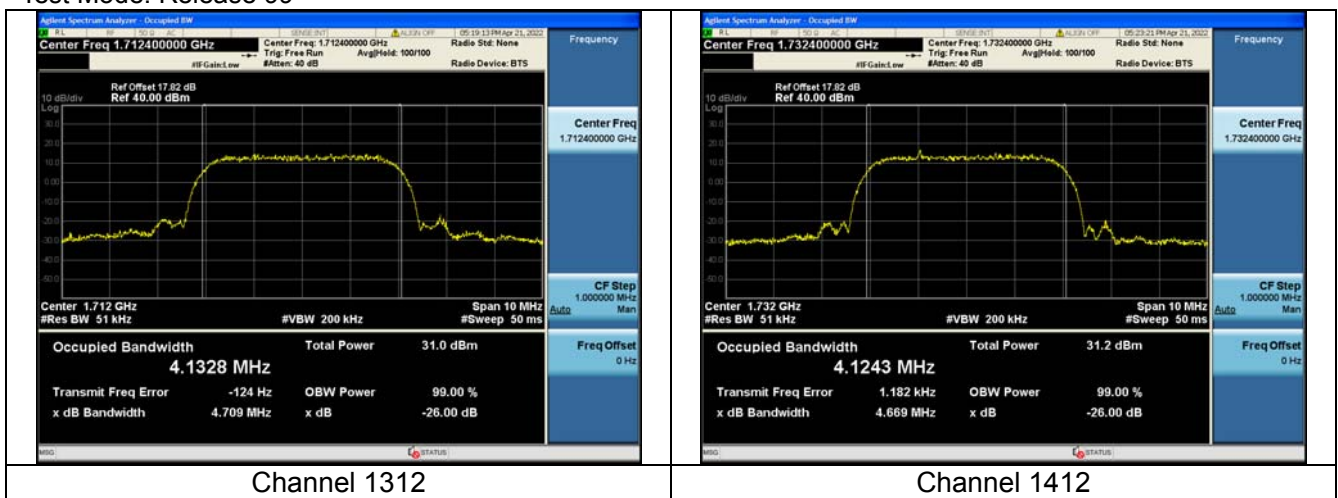
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
Release 99	1712.4	1312	4.67
Release 99	1732.6	1412	4.67
Release 99	1752.6	1513	4.67

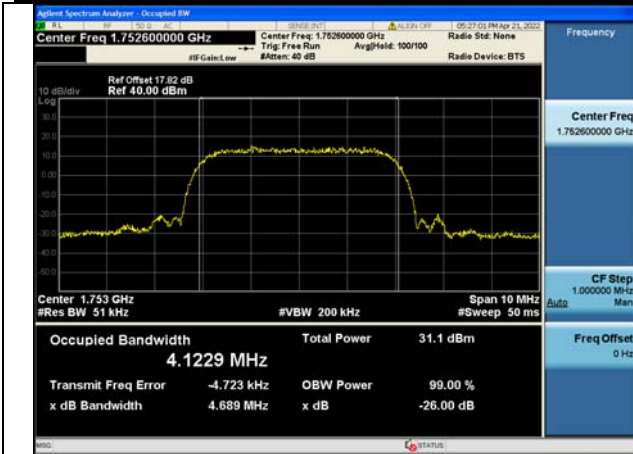
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSDPA	1712.4	1312	4.68
HSDPA	1732.6	1412	4.66
HSDPA	1752.6	1513	4.68

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSUPA	1712.4	1312	4.71
HSUPA	1732.6	1412	4.67
HSUPA	1752.6	1513	4.69

WCDMA band IV

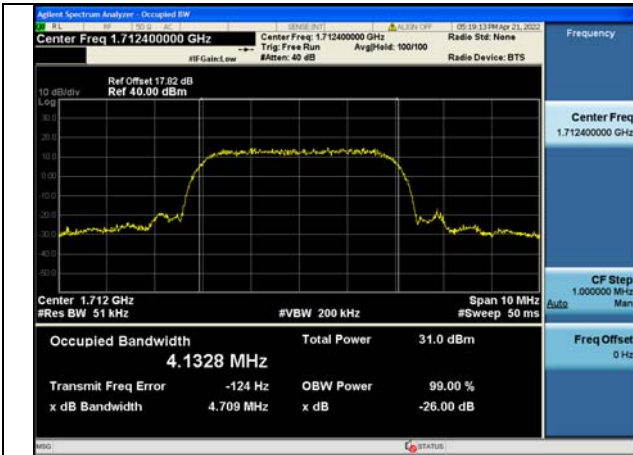
Test Mode: Release 99



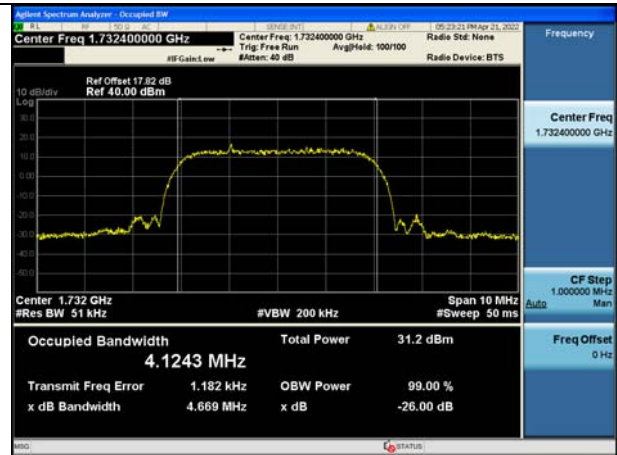


Channel 1513

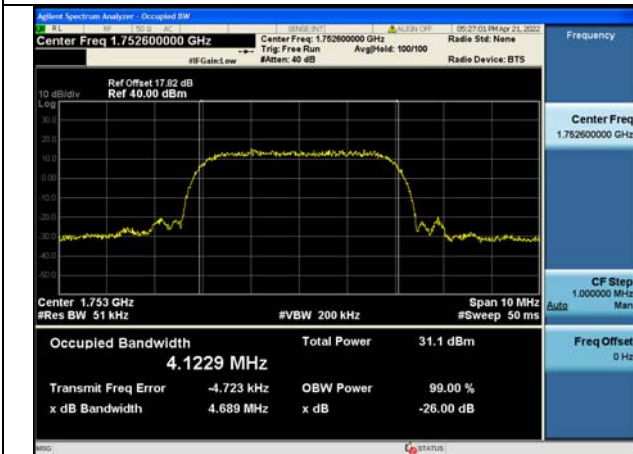
Test Mode: HSDPA



Channel 1312

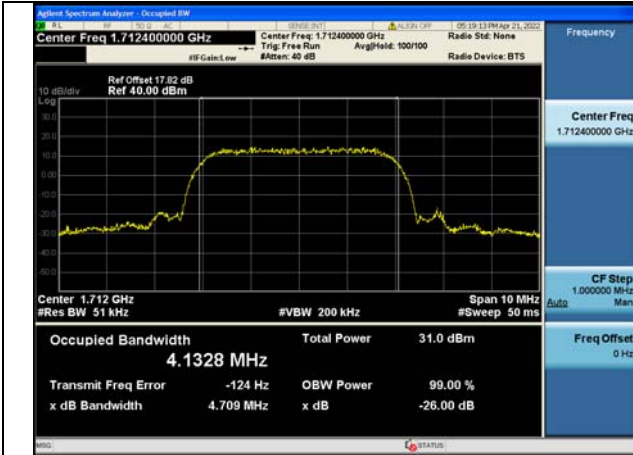


Channel 1412

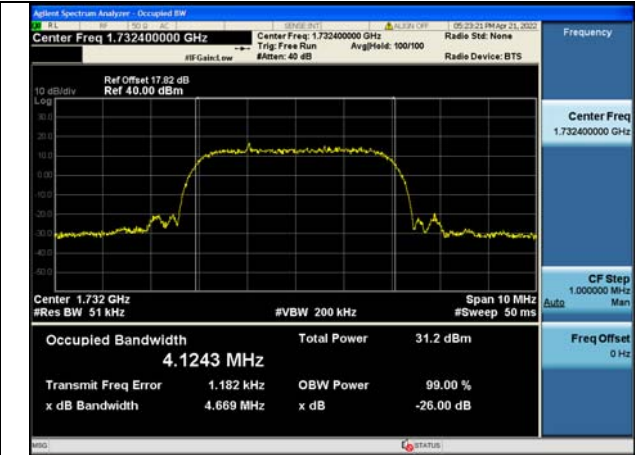


Channel 1513

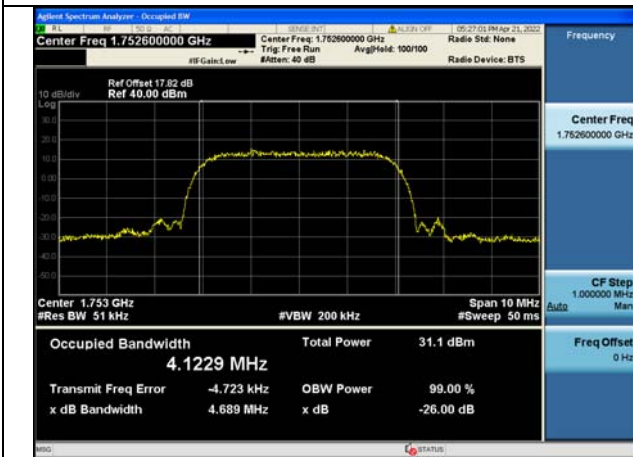
Test Mode: HSUPA



Channel 1312



Channel 1412

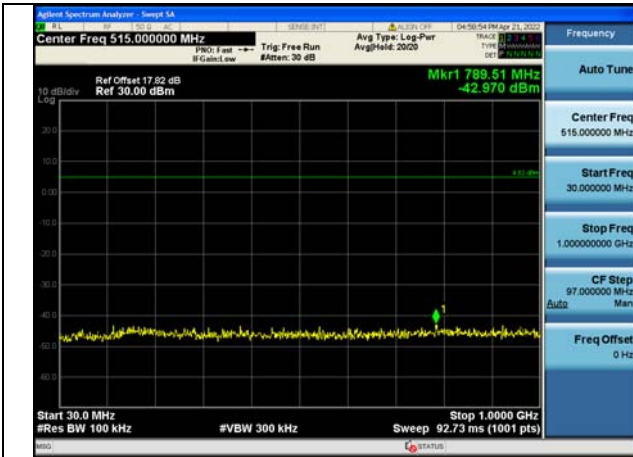


Channel 1513

4. Spurious Emissions at antenna terminal

WCDMA band IV

Test Mode: Release 99



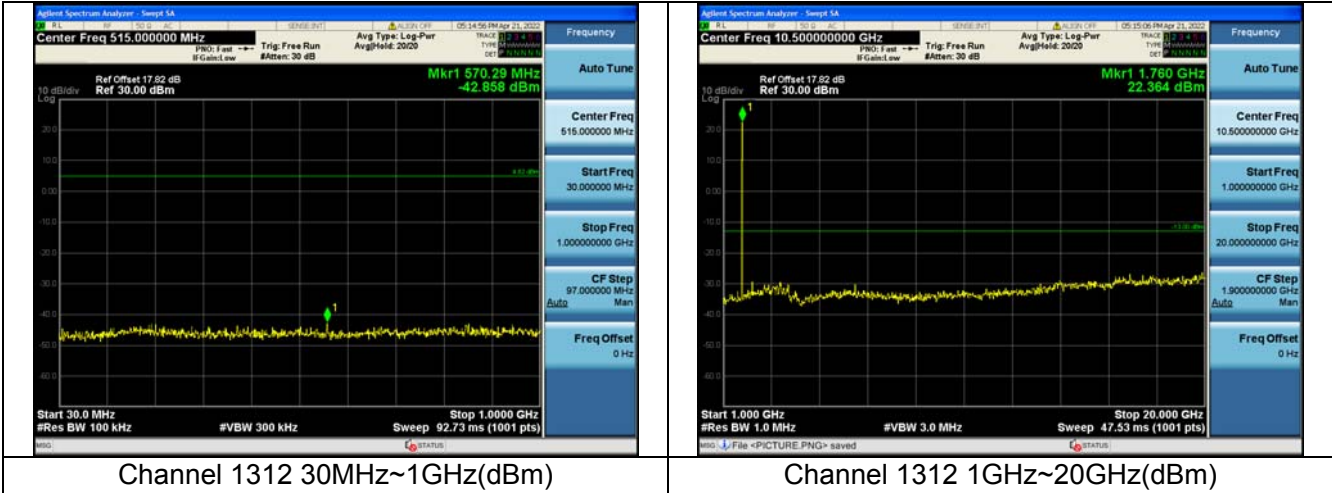
Channel 1312 30MHz~1GHz(dBm)



Channel 1312 1GHz~20GHz(dBm)

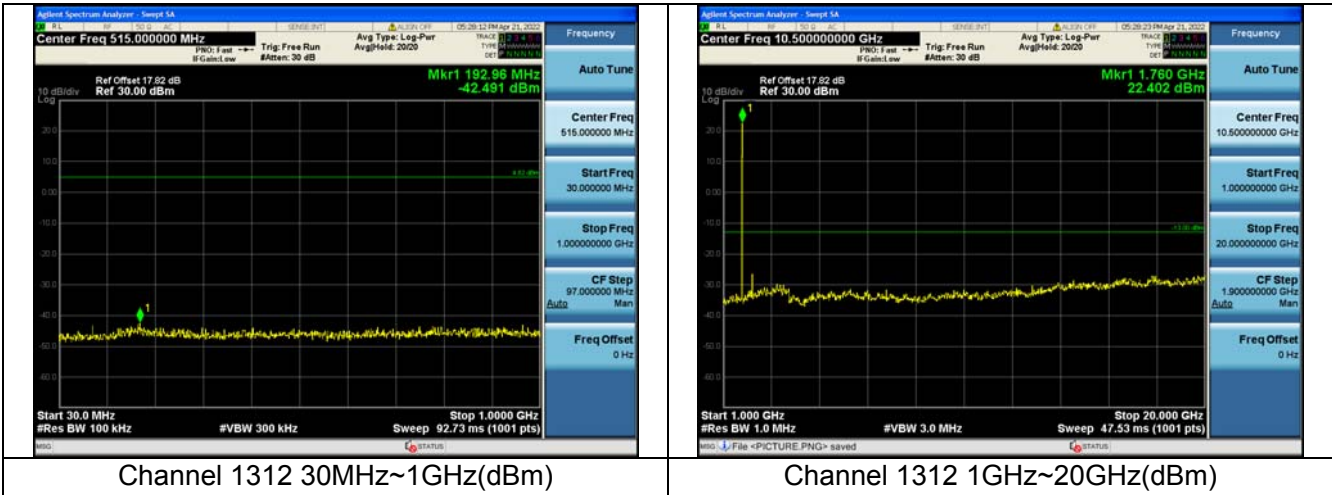
Note: The signal beyond the limit is the signal transmitted by EUT.

Test Mode: HSDPA



Note: The signal beyond the limit is the signal transmitted by EUT.

Test Mode: HSUPA

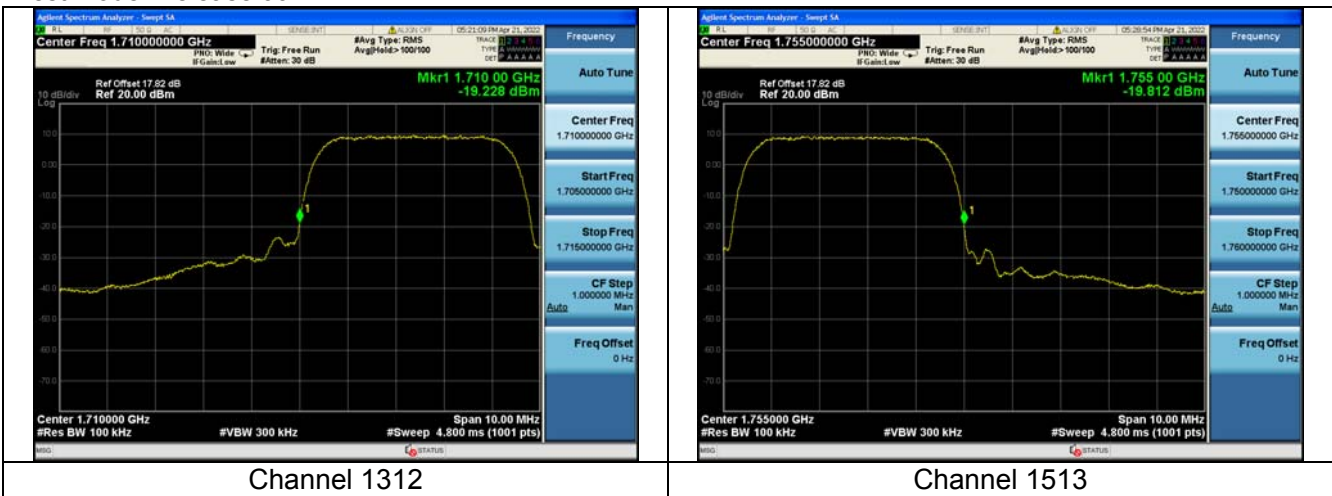


Note: The signal beyond the limit is the signal transmitted by EUT.

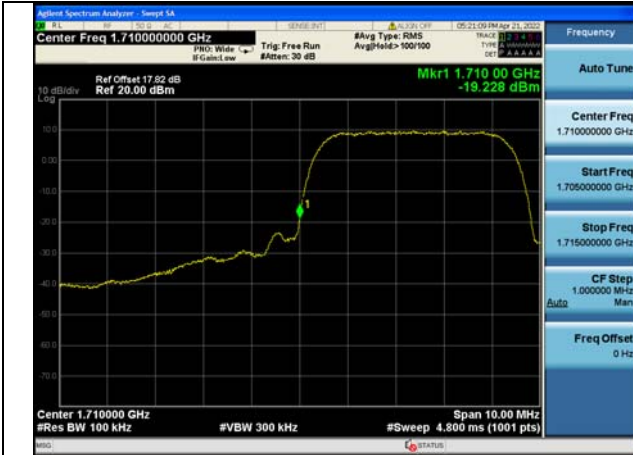
5. Band Edges Compliance

WCDMA band IV

Test Mode: Release 99



Test Mode: HSDPA

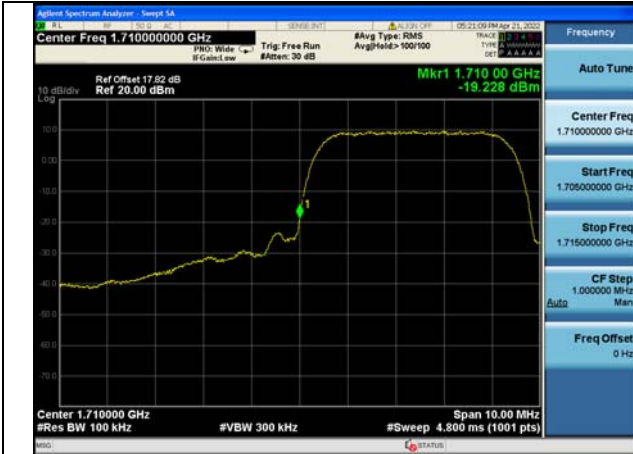


Channel 1312



Channel 1513

Test Mode: HSUPA



Channel 1312



Channel 1513

6. Frequency Stability

WCDMA band IV

Test Mode: Release 99

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 1312	Channel 1412	Channel 1513
Release 99	-10	0.058	0.020	0.020
Release 99	0	0.072	0.011	0.040
Release 99	+10	0.058	-0.067	0.051
Release 99	+20	-0.005	0.059	-0.034
Release 99	+30	-0.002	-0.035	0.066
Release 99	+40	0.044	0.023	-0.075
Release 99	+50	0.020	-0.042	0.037
Release 99	+55	-0.063	-0.072	-0.003

Name	Voltage	Test Result (ppm)@NT		
		Channel 1312	Channel 1412	Channel 1513
Release 99	LV	-0.013	-0.037	0.035
Release 99	HV	0.068	0.019	0.037

Test Mode: HSDPA

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 1312	Channel 1412	Channel 1513
Subtest1	-10	-0.060	0.007	0.048
Subtest1	0	0.076	0.075	0.001
Subtest1	+10	-0.047	-0.025	-0.006
Subtest1	+20	0.049	0.038	-0.005
Subtest1	+30	0.060	0.026	-0.045
Subtest1	+40	-0.076	0.073	0.075
Subtest1	+50	0.040	0.008	0.075
Subtest1	+55	-0.064	-0.001	0.037

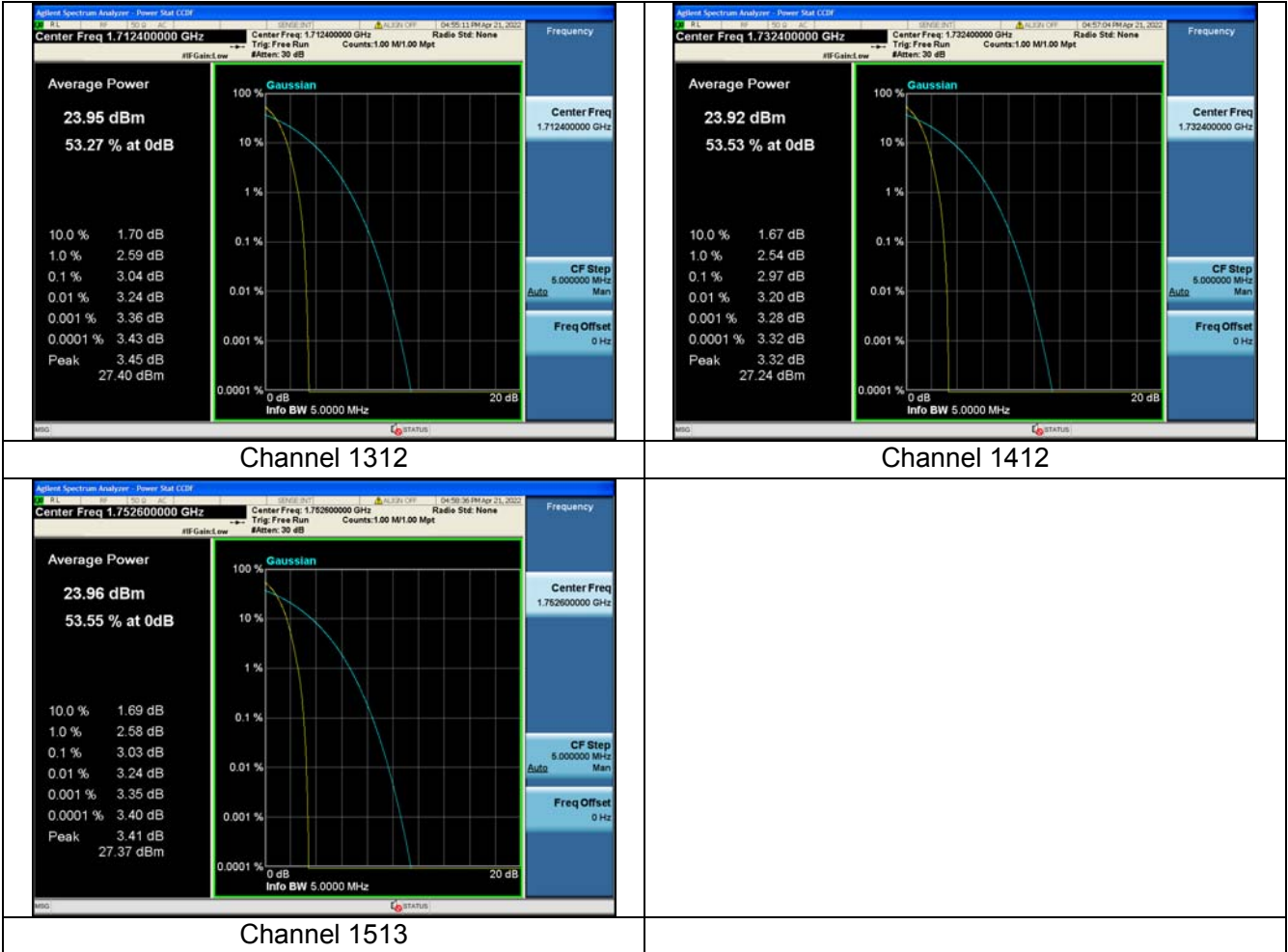
Name	Voltage	Test Result (ppm)@NT		
		Channel 1312	Channel 1412	Channel 1513
Subtest1	LV	-0.060	0.074	-0.040
Subtest1	HV	-0.072	-0.003	-0.029

Test Mode: HSUPA

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 1312	Channel 1412	Channel 1513
Subtest1	-10	-0.053	0.029	-0.029
Subtest1	0	-0.015	-0.029	0.067
Subtest1	+10	-0.050	0.038	0.018
Subtest1	+20	0.035	0.024	0.037
Subtest1	+30	-0.055	-0.047	0.001
Subtest1	+40	-0.039	0.032	0.069
Subtest1	+50	-0.017	0.068	-0.049
Subtest1	+55	0.036	-0.056	0.075

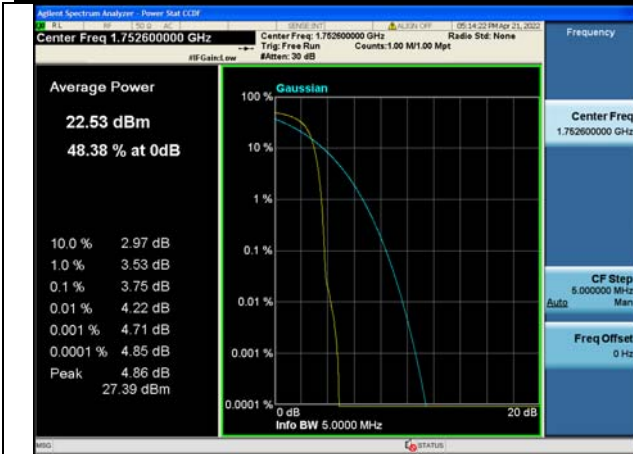
Name	Voltage	Test Result (ppm)@NT		
		Channel 1312	Channel 1412	Channel 1513
Subtest1	LV	-0.008	0.000	-0.004
Subtest1	HV	0.036	0.074	0.017

7. Peak-Average Ratio
WCDMA band IV
Test Mode: Release 99



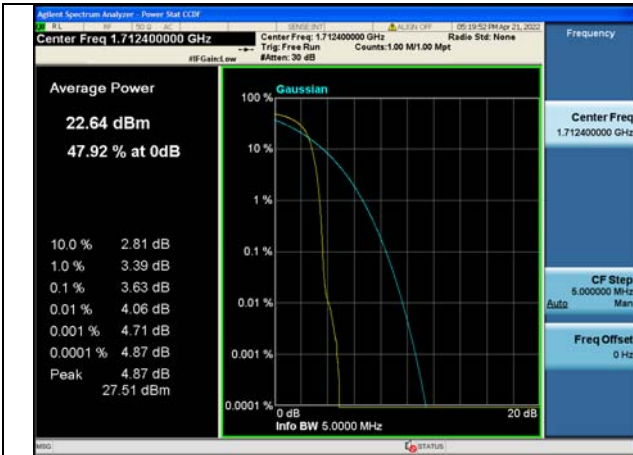
Test Mode: HSDPA





Channel 1513

Test Mode: HSUPA



Channel 1312



Channel 1412



Channel 1513

8. Effective Radiated Power and Effective Isotropic Radiated Power

WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC,12.2kbps	1712.4	1312	23.94	22.94	0.197
Release 99	RMC,12.2kbps	1732.6	1412	23.95	22.95	0.197
Release 99	RMC,12.2kbps	1752.6	1513	24.02	23.02	0.200

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSDPA	Subtest1	1712.4	1312	22.78	21.78	0.151
HSDPA	Subtest1	1732.6	1412	23.08	22.08	0.161
HSDPA	Subtest1	1752.6	1513	22.95	21.95	0.157
HSDPA	Subtest2	1712.4	1312	22.58	21.58	0.144
HSDPA	Subtest2	1732.6	1412	22.79	21.79	0.151
HSDPA	Subtest2	1752.6	1513	22.64	21.64	0.146
HSDPA	Subtest3	1712.4	1312	22.48	21.48	0.141
HSDPA	Subtest3	1732.6	1412	22.58	21.58	0.144
HSDPA	Subtest3	1752.6	1513	22.60	21.60	0.145
HSDPA	Subtest4	1712.4	1312	22.48	21.48	0.141
HSDPA	Subtest4	1732.6	1412	22.68	21.68	0.147
HSDPA	Subtest4	1752.6	1513	22.60	21.60	0.145

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSUPA	Subtest1	1712.4	1312	22.39	21.39	0.138
HSUPA	Subtest1	1732.6	1412	22.69	21.69	0.148
HSUPA	Subtest1	1752.6	1513	22.53	21.53	0.142
HSUPA	Subtest2	1712.4	1312	21.92	20.92	0.124
HSUPA	Subtest2	1732.6	1412	21.51	20.51	0.112
HSUPA	Subtest2	1752.6	1513	21.87	20.87	0.122
HSUPA	Subtest3	1712.4	1312	21.53	20.53	0.113
HSUPA	Subtest3	1732.6	1412	21.88	20.88	0.122
HSUPA	Subtest3	1752.6	1513	21.55	20.55	0.114
HSUPA	Subtest4	1712.4	1312	22.10	21.10	0.129
HSUPA	Subtest4	1732.6	1412	21.52	20.52	0.113
HSUPA	Subtest4	1752.6	1513	22.16	21.16	0.131
HSUPA	Subtest5	1712.4	1312	22.41	21.41	0.138
HSUPA	Subtest5	1732.6	1412	22.42	21.42	0.139
HSUPA	Subtest5	1752.6	1513	22.45	21.45	0.140

WCDMA band V

1. RF Power Output

WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	826.4	4132	24.51
Release 99	RMC,12.2kbps	836.6	4183	24.48
Release 99	RMC,12.2kbps	846.6	4233	24.66

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSDPA	Subtest1	826.4	4132	23.16
HSDPA	Subtest1	836.6	4183	23.34
HSDPA	Subtest1	846.6	4233	23.44
HSDPA	Subtest2	826.4	4132	22.95
HSDPA	Subtest2	836.6	4183	23.03
HSDPA	Subtest2	846.6	4233	23.21
HSDPA	Subtest3	826.4	4132	22.88
HSDPA	Subtest3	836.6	4183	22.97
HSDPA	Subtest3	846.6	4233	23.06
HSDPA	Subtest4	826.4	4132	22.86
HSDPA	Subtest4	836.6	4183	22.96
HSDPA	Subtest4	846.6	4233	23.05

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSUPA	Subtest1	826.4	4132	22.9
HSUPA	Subtest1	836.6	4183	22.91
HSUPA	Subtest1	846.6	4233	22.87
HSUPA	Subtest2	826.4	4132	21.81
HSUPA	Subtest2	836.6	4183	22.34
HSUPA	Subtest2	846.6	4233	22.32
HSUPA	Subtest3	826.4	4132	22.19
HSUPA	Subtest3	836.6	4183	21.89
HSUPA	Subtest3	846.6	4233	22.5
HSUPA	Subtest4	826.4	4132	22.54
HSUPA	Subtest4	836.6	4183	21.93
HSUPA	Subtest4	846.6	4233	22.75
HSUPA	Subtest5	826.4	4132	22.72
HSUPA	Subtest5	836.6	4183	22.84
HSUPA	Subtest5	846.6	4233	23.03

2. Occupied Bandwidth

WCDMA band V

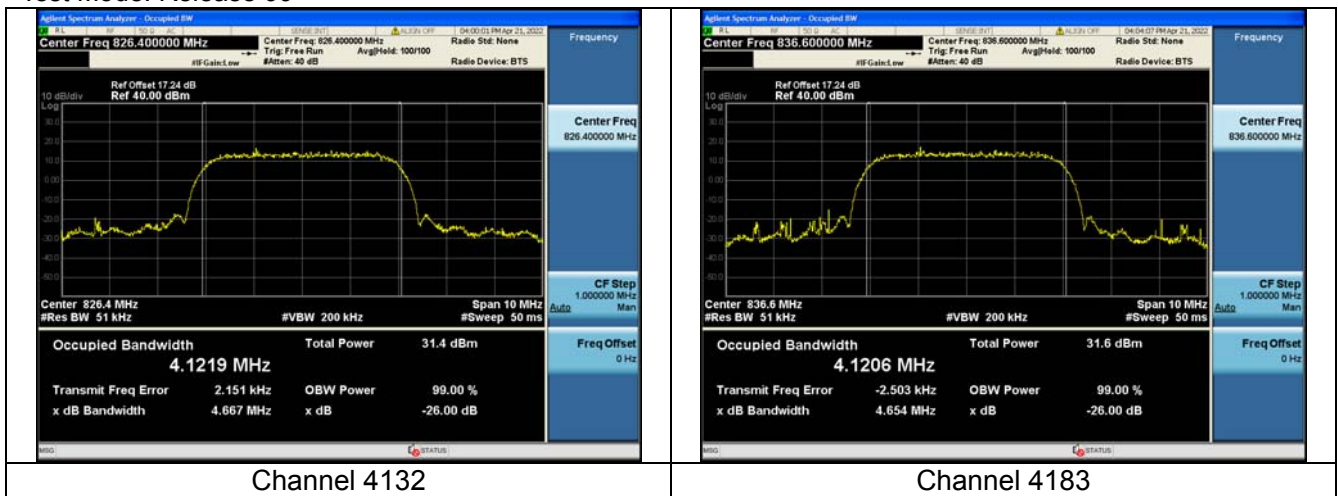
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
Release 99	826.4	4132	4.15
Release 99	836.6	4183	4.14
Release 99	846.6	4233	4.13

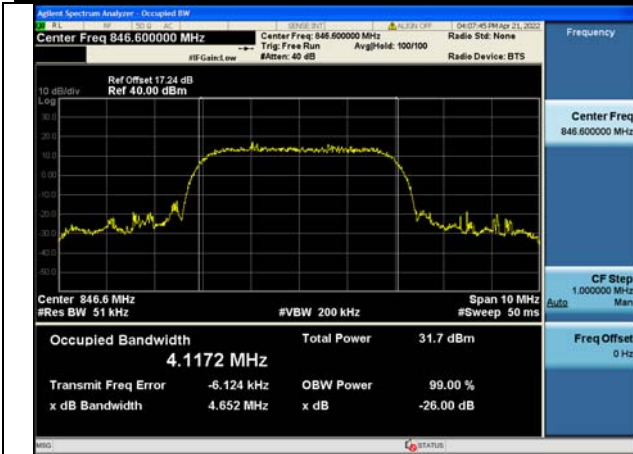
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSDPA	826.4	4132	4.13
HSDPA	836.6	4183	4.13
HSDPA	846.6	4233	4.11

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSUPA	826.4	4132	4.12
HSUPA	836.6	4183	4.12
HSUPA	846.6	4233	4.12

WCDMA band V

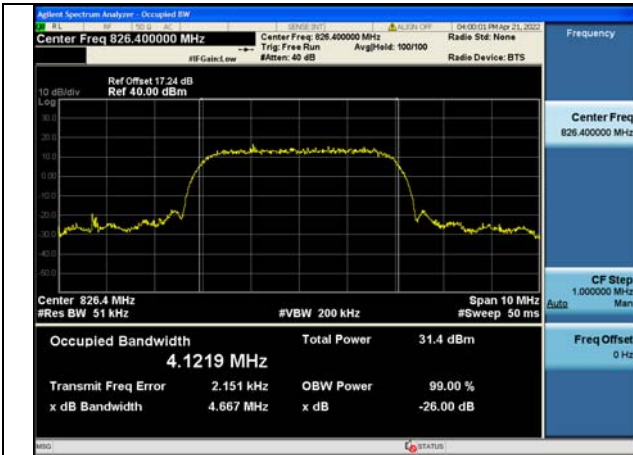
Test Mode: Release 99



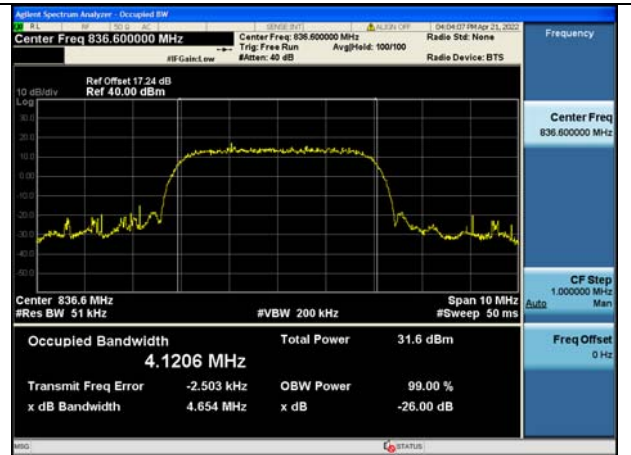


Channel 4233

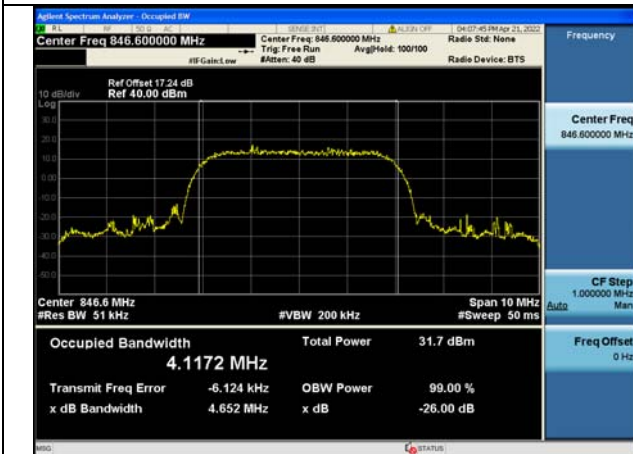
Test Mode: HSDPA



Channel 4132

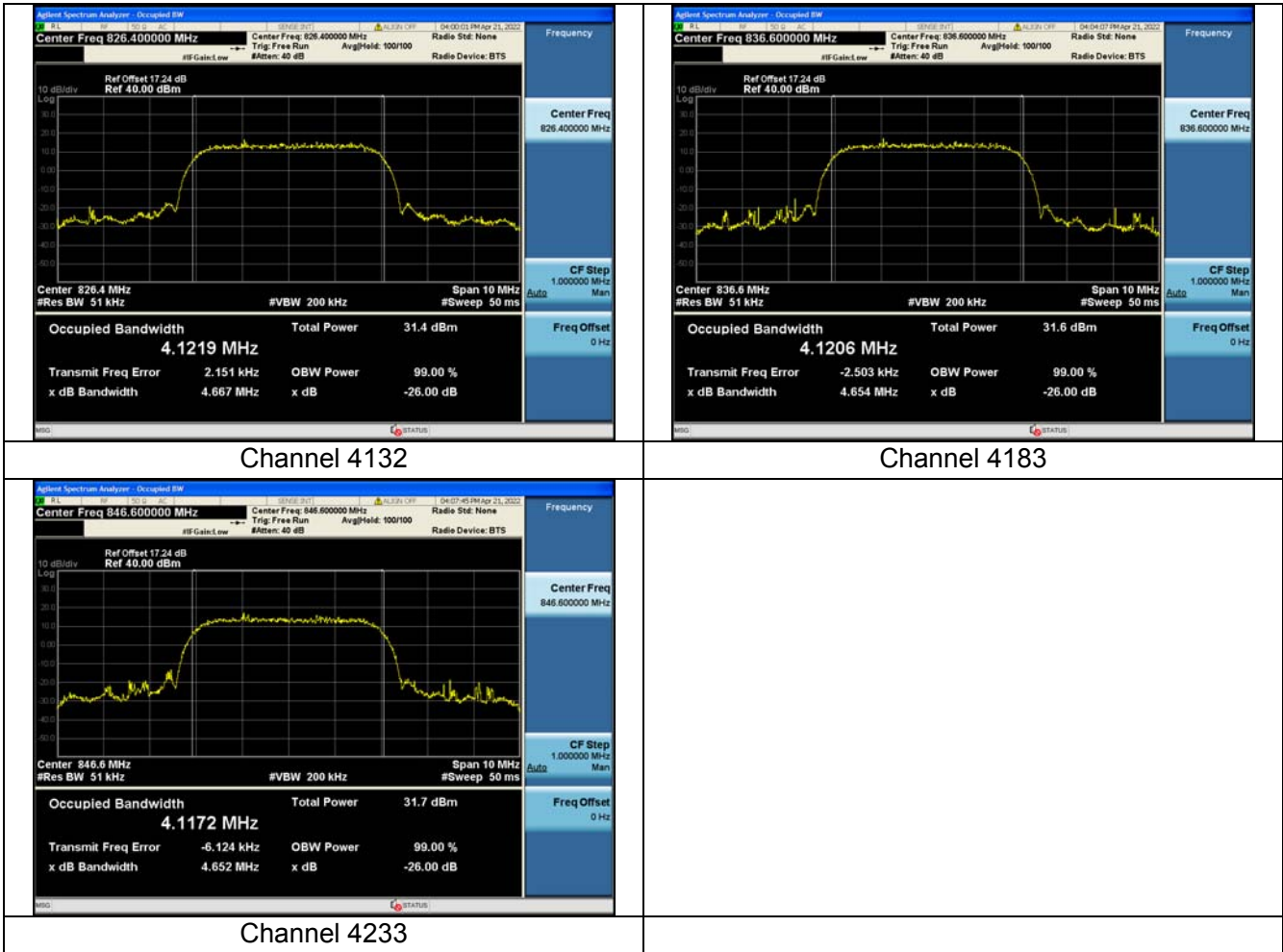


Channel 4183



Channel 4233

Test Mode: HSUPA



Channel 4132

Channel 4183

Channel 4233

3. Emission Bandwidth

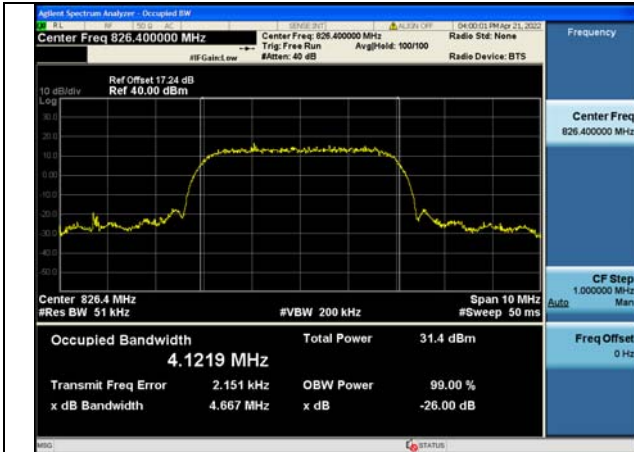
WCDMA band V

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
Release 99	826.4	4132	4.74
Release 99	836.6	4183	4.7
Release 99	846.6	4233	4.72

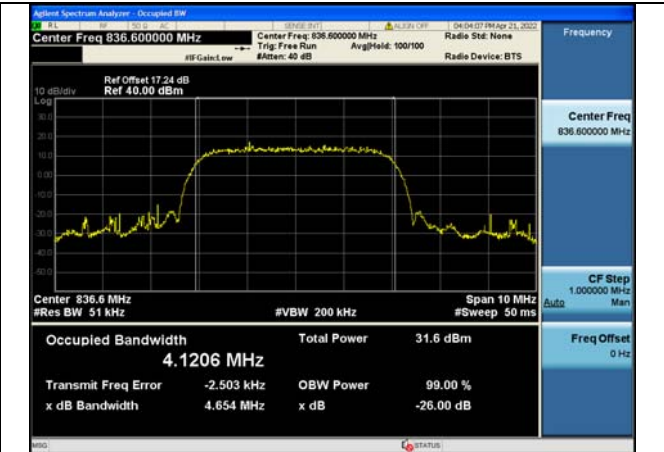
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSDPA	826.4	4132	4.96
HSDPA	836.6	4183	4.66
HSDPA	846.6	4233	4.64

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSUPA	826.4	4132	4.67
HSUPA	836.6	4183	4.65
HSUPA	846.6	4233	4.65

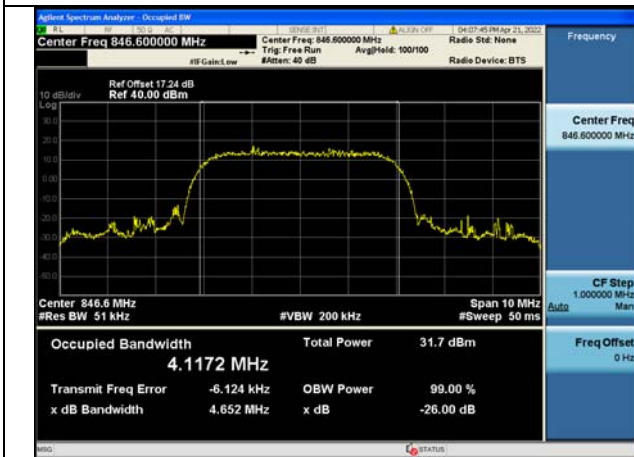
WCDMA band V
Test Mode: Release 99



Channel 4132

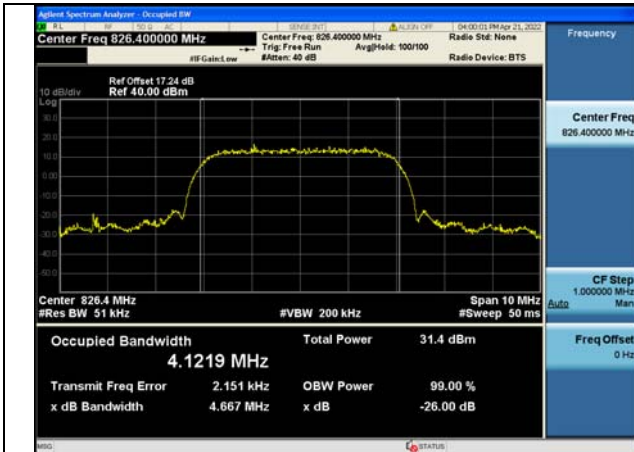


Channel 4183

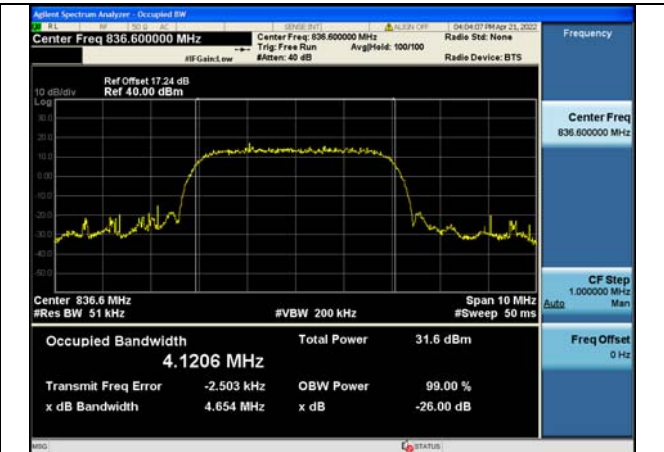


Channel 4233

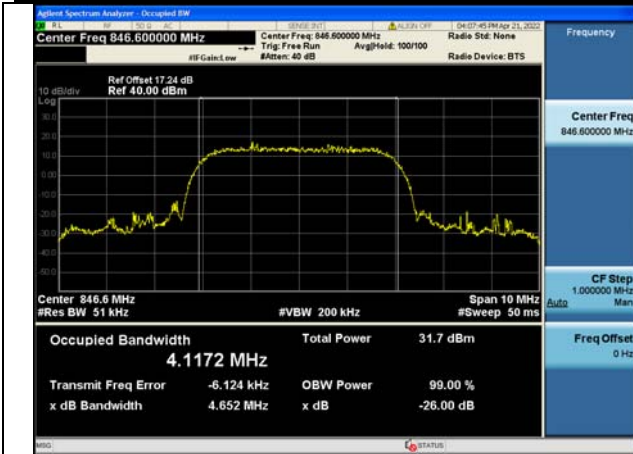
Test Mode: HSDPA



Channel 4132



Channel 4183

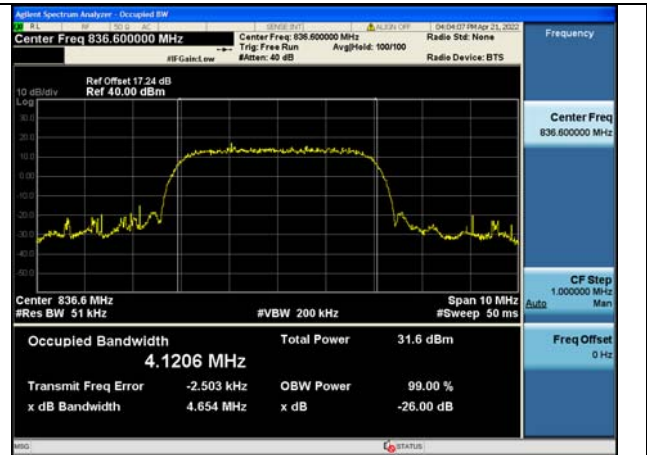


Channel 4233

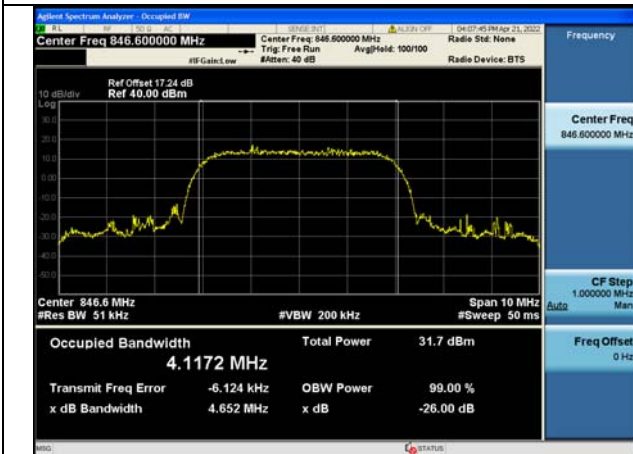
Test Mode: HSUPA



Channel 4132

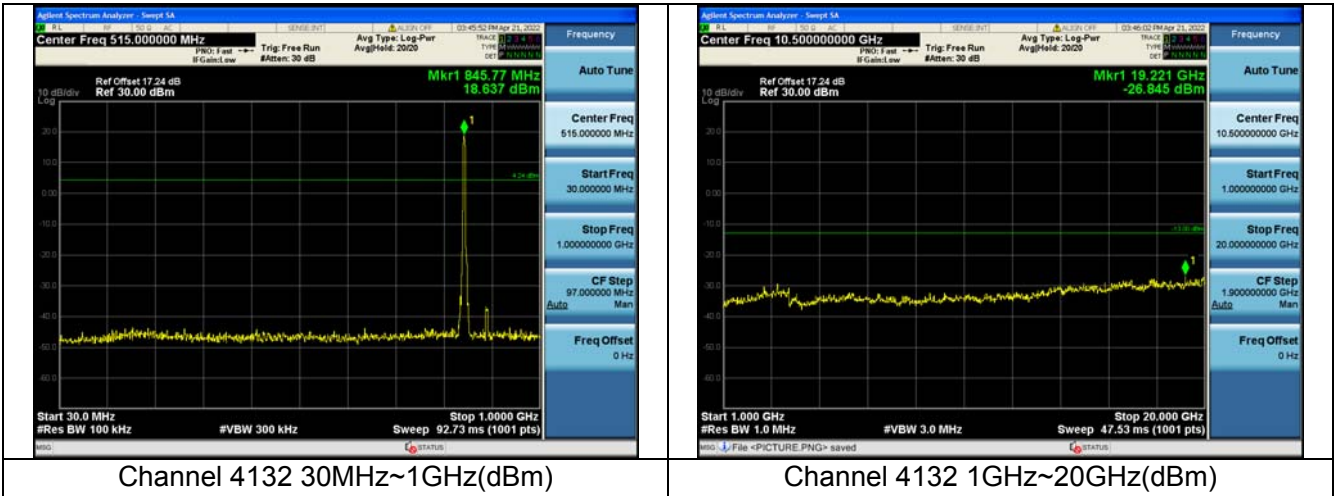


Channel 4183

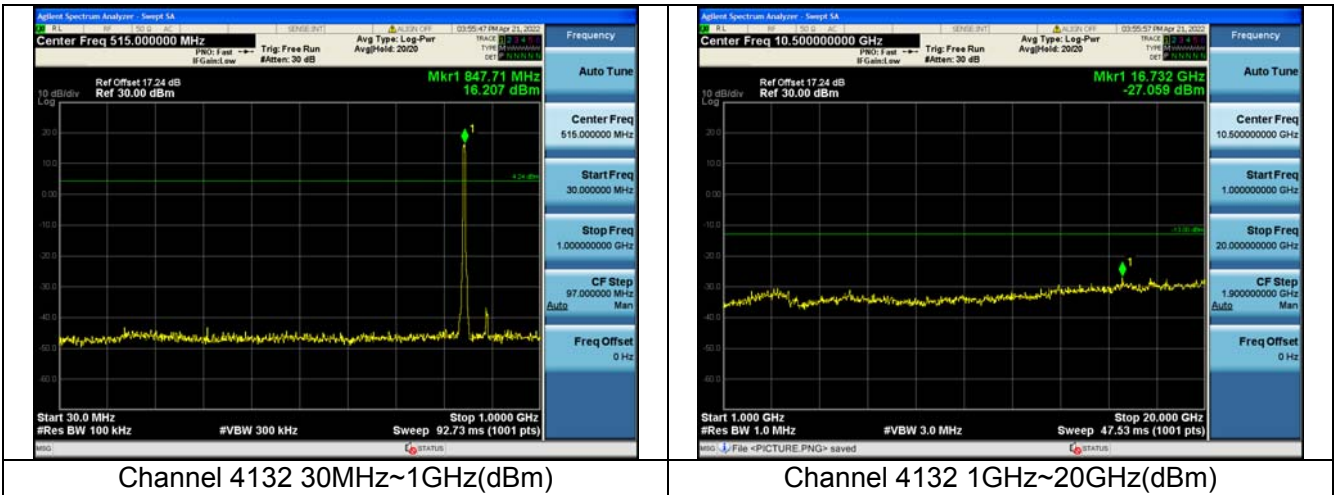


Channel 4233

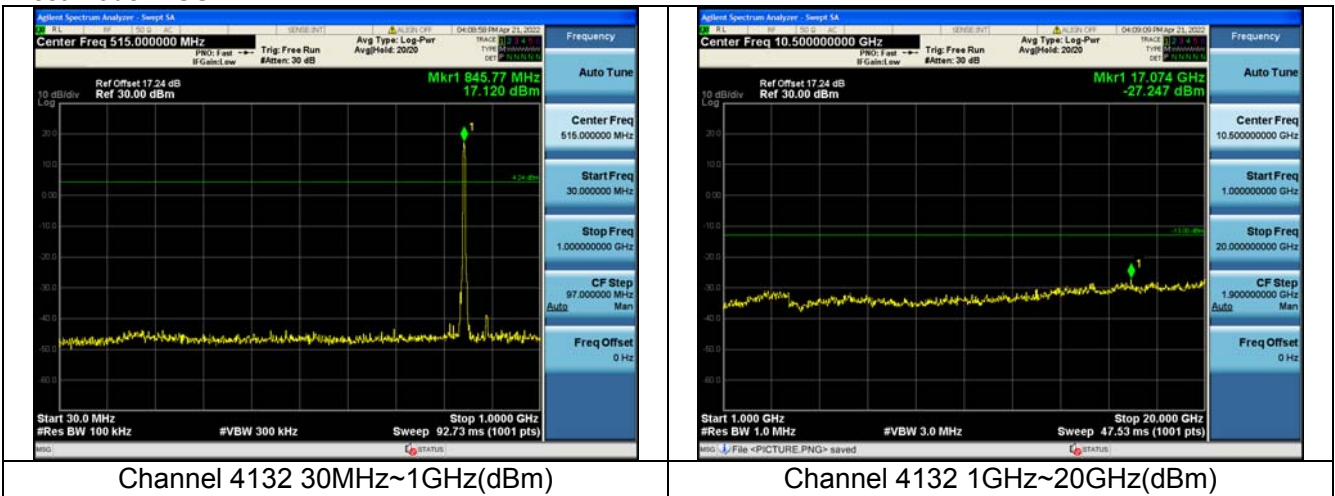
4. Spurious Emissions at antenna terminal
WCDMA band V
Test Mode: Release 99



Note: The signal beyond the limit is the signal transmitted by EUT.
Test Mode: HSDPA

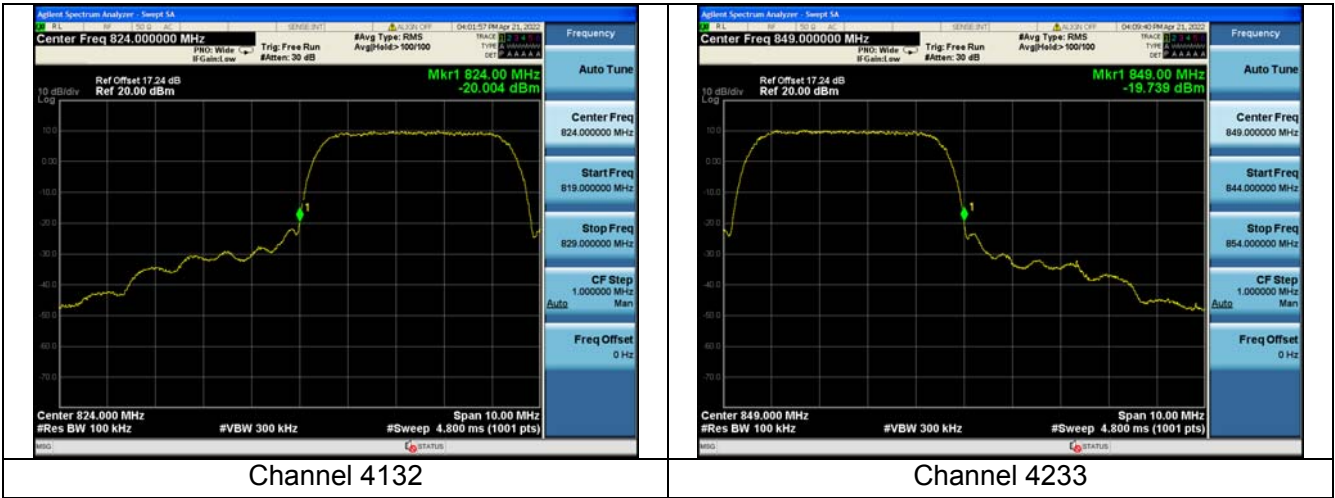


Note: The signal beyond the limit is the signal transmitted by EUT.
Test Mode: HSUPA

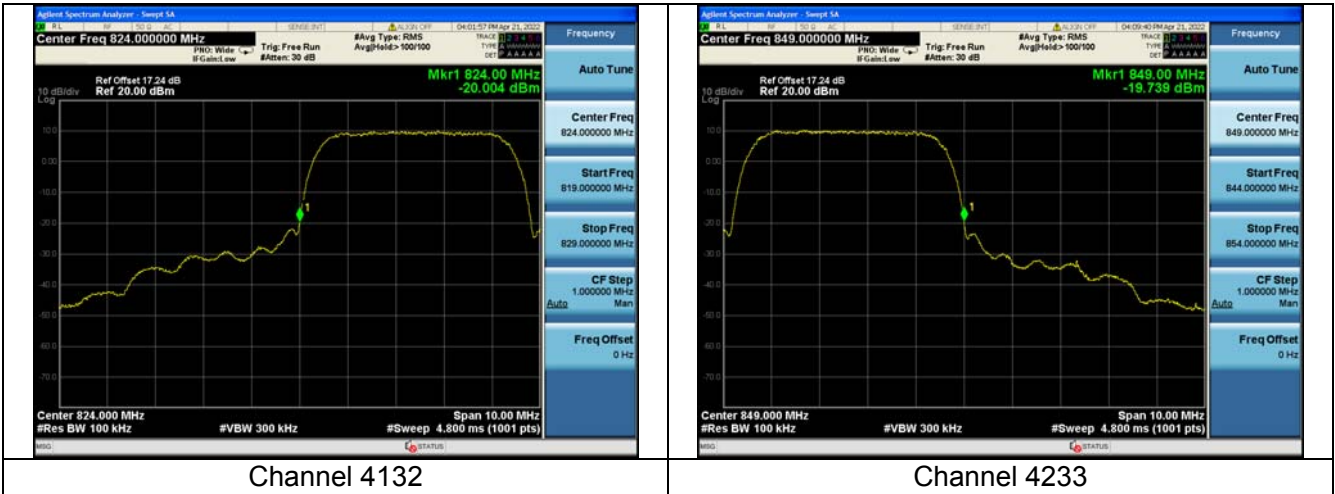


Note: The signal beyond the limit is the signal transmitted by EUT.

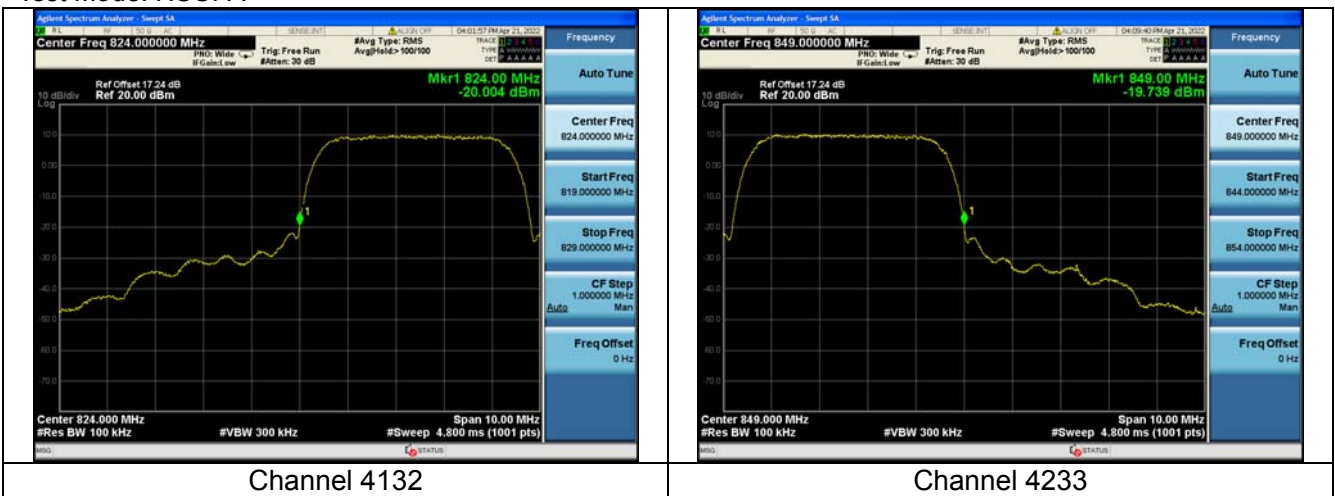
5. Band Edges Compliance
WCDMA band V
Test Mode: Release 99



Test Mode: HSDPA



Test Mode: HSUPA



6. Frequency Stability

WCDMA band V

Test Mode: Release 99

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 4132	Channel 4183	Channel 4233
Release 99	-10	-0.039	-0.032	-0.043
Release 99	0	-0.050	0.029	-0.012
Release 99	+10	0.067	0.017	0.011
Release 99	+20	0.000	0.074	-0.054
Release 99	+30	-0.021	-0.062	0.033
Release 99	+40	-0.033	0.059	0.052
Release 99	+50	0.041	0.031	0.035
Release 99	+55	-0.043	0.023	0.040
Name	Voltage	Test Result (ppm)@NT		
		Channel 4132	Channel 4183	Channel 4233
Release 99	LV	-0.001	-0.014	-0.066
Release 99	HV	0.043	0.000	-0.066

Test Mode: HSDPA

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 4132	Channel 4183	Channel 4233
Subtest1	-10	-0.063	0.079	0.035
Subtest1	0	-0.034	-0.051	0.002
Subtest1	+10	0.012	-0.063	0.069
Subtest1	+20	-0.041	-0.048	0.024
Subtest1	+30	-0.028	0.022	-0.076
Subtest1	+40	-0.035	0.017	-0.035
Subtest1	+50	-0.074	0.075	-0.031
Subtest1	+55	-0.033	0.059	0.002
Name	Voltage	Test Result (ppm)@NT		
		Channel 4132	Channel 4183	Channel 4233
Subtest1	LV	-0.024	0.023	-0.067
Subtest1	HV	-0.051	0.063	-0.045

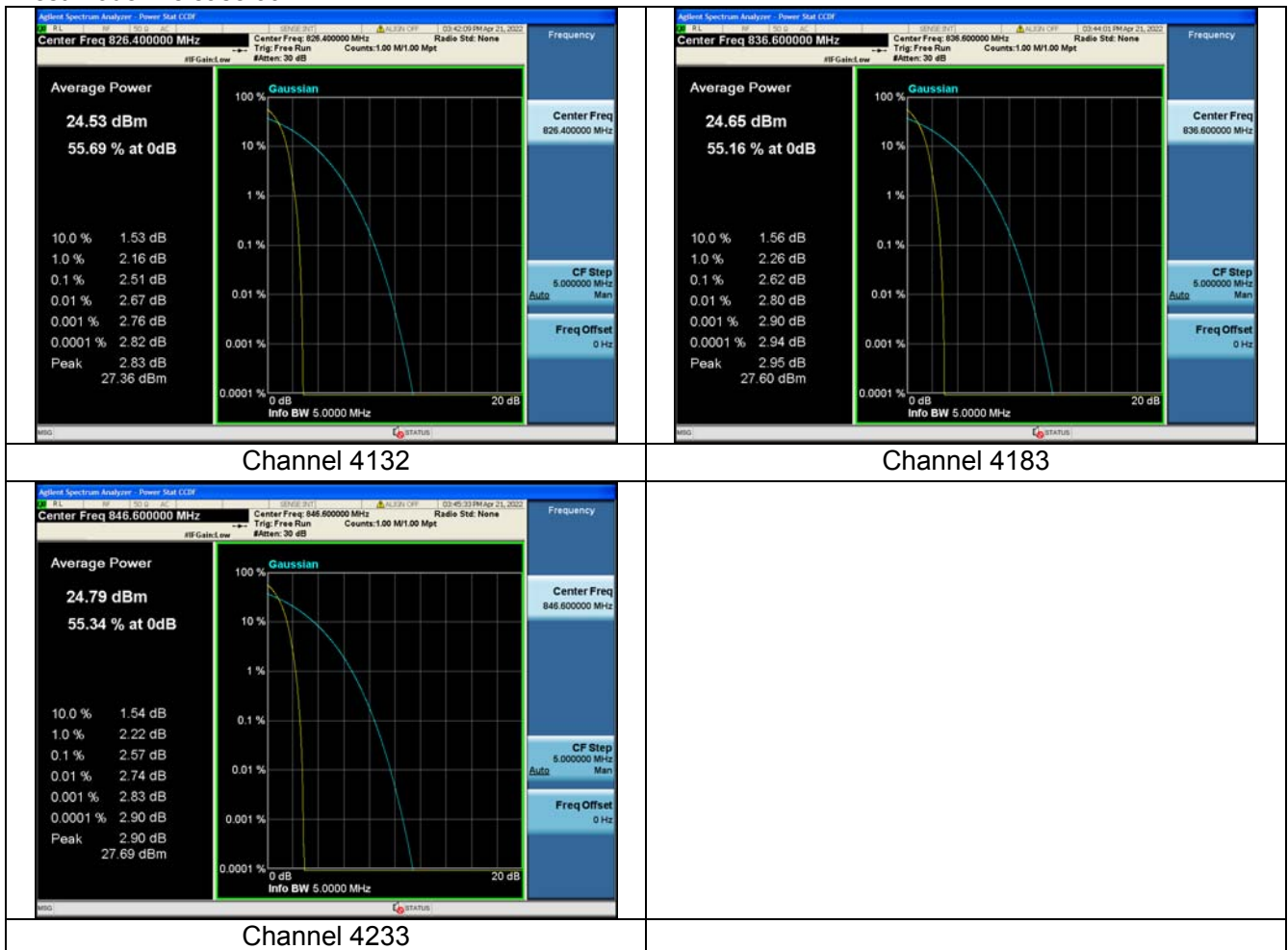
Test Mode: HSUPA

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 4132	Channel 4183	Channel 4233
Subtest1	-10	0.002	-0.017	-0.075
Subtest1	0	0.016	-0.017	-0.021
Subtest1	+10	0.069	-0.057	-0.055
Subtest1	+20	0.073	-0.001	-0.011
Subtest1	+30	-0.041	0.039	-0.053
Subtest1	+40	-0.012	0.034	0.034
Subtest1	+50	-0.053	-0.006	0.029
Subtest1	+55	-0.047	-0.002	0.033
Name	Voltage	Test Result (ppm)@NT		
		Channel 4132	Channel 4183	Channel 4233
Subtest1	LV	0.057	0.062	0.041
Subtest1	HV	-0.021	-0.031	0.038

7. Peak-Average Ratio

WCDMA band V

Test Mode: Release 99



Test Mode: HSDPA



Channel 4132

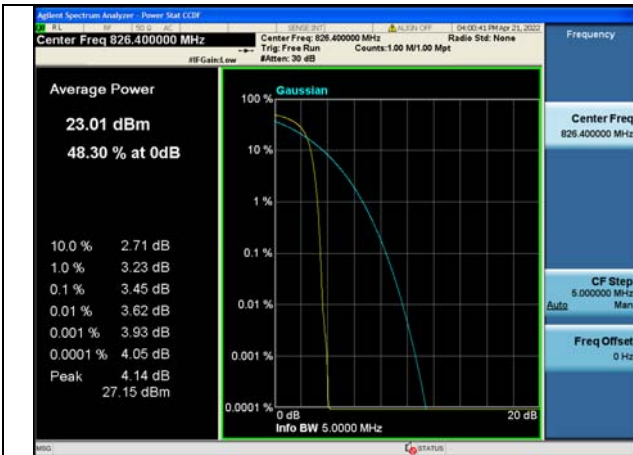


Channel 4183



Channel 4233

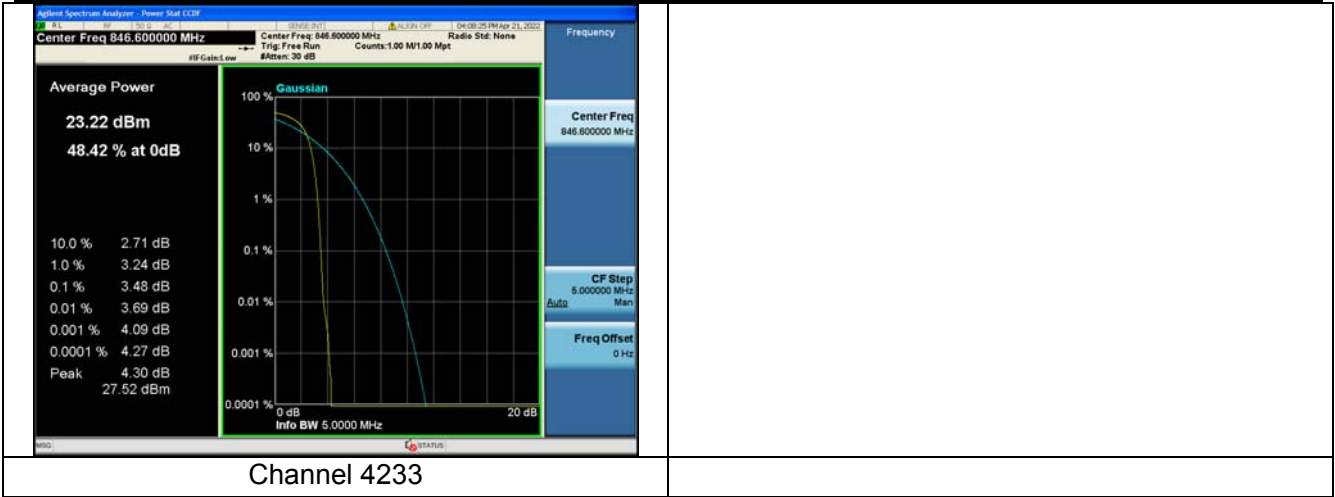
Test Mode: HSUPA



Channel 4132



Channel 4183



8. Effective Radiated Power and Effective Isotropic Radiated Power
WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC,12.2kbps	826.4	4132	24.51	19.06	0.081
Release 99	RMC,12.2kbps	836.6	4183	24.48	19.03	0.080
Release 99	RMC,12.2kbps	846.6	4233	24.66	19.21	0.083

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSDPA	Subtest1	826.4	4132	23.16	17.71	0.059
HSDPA	Subtest1	836.6	4183	23.34	17.89	0.062
HSDPA	Subtest1	846.6	4233	23.44	17.99	0.063
HSDPA	Subtest2	826.4	4132	22.95	17.50	0.056
HSDPA	Subtest2	836.6	4183	23.03	17.58	0.057
HSDPA	Subtest2	846.6	4233	23.21	17.76	0.060
HSDPA	Subtest3	826.4	4132	22.88	17.43	0.055
HSDPA	Subtest3	836.6	4183	22.97	17.52	0.056
HSDPA	Subtest3	846.6	4233	23.06	17.61	0.058
HSDPA	Subtest4	826.4	4132	22.86	17.41	0.055
HSDPA	Subtest4	836.6	4183	22.96	17.51	0.056
HSDPA	Subtest4	846.6	4233	23.05	17.60	0.058

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSUPA	Subtest1	826.4	4132	22.9	17.45	0.056
HSUPA	Subtest1	836.6	4183	22.91	17.46	0.056
HSUPA	Subtest1	846.6	4233	22.87	17.42	0.055
HSUPA	Subtest2	826.4	4132	21.81	16.36	0.043
HSUPA	Subtest2	836.6	4183	22.34	16.89	0.049
HSUPA	Subtest2	846.6	4233	22.32	16.87	0.049
HSUPA	Subtest3	826.4	4132	22.19	16.74	0.047
HSUPA	Subtest3	836.6	4183	21.89	16.44	0.044
HSUPA	Subtest3	846.6	4233	22.5	17.05	0.051
HSUPA	Subtest4	826.4	4132	22.54	17.09	0.051
HSUPA	Subtest4	836.6	4183	21.93	16.48	0.044
HSUPA	Subtest4	846.6	4233	22.75	17.30	0.054
HSUPA	Subtest5	826.4	4132	22.72	17.27	0.053
HSUPA	Subtest5	836.6	4183	22.84	17.39	0.055
HSUPA	Subtest5	846.6	4233	23.03	17.58	0.057

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Spurious Emissions

Note: The worst channel results are reflected in the report.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Test result:

WCDMA Mode:

Channel 9262

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.10	-48.75	-13	Vertical
2782.15	-47.41	-13	Vertical
3727.20	-40.92	-13	Vertical
6676.74	-39.59	-13	Vertical
9961.14	-37.40	-13	Vertical
17821.90	-33.95	-13	Vertical

Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.31	-49.37	-13	Vertical
2779.10	-47.79	-13	Vertical
3724.58	-40.62	-13	Vertical
6678.47	-40.09	-13	Vertical
9963.11	-37.19	-13	Vertical
17820.02	-34.20	-13	Vertical

Channel 9538

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.85	-49.11	-13	Vertical
2780.80	-47.19	-13	Vertical
3725.18	-41.11	-13	Vertical
6676.25	-39.33	-13	Vertical
9961.10	-37.35	-13	Vertical
17820.71	-34.36	-13	Vertical

HSDPA/HSUPA Mode:
Channel 9262

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.78	-48.58	-13	Vertical
2781.28	-47.12	-13	Vertical
3725.85	-41.12	-13	Vertical
6677.73	-39.44	-13	Vertical
9959.56	-36.82	-13	Vertical
17819.72	-34.22	-13	Vertical

Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.41	-48.71	-13	Vertical
2778.79	-47.08	-13	Vertical
3727.13	-41.14	-13	Vertical
6675.30	-39.79	-13	Vertical
9961.53	-37.61	-13	Vertical
17822.14	-34.41	-13	Vertical

Channel 9538

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.71	-48.60	-13	Vertical
2781.21	-47.82	-13	Vertical
3727.98	-41.09	-13	Vertical
6675.17	-39.95	-13	Vertical
9959.69	-37.06	-13	Vertical
17821.27	-33.83	-13	Vertical

WCDMA band IV
Test result:

Test result:
WCDMA Mode:
Channel 1312

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.45	-49.27	-13	Vertical
2780.47	-47.25	-13	Vertical
3726.12	-41.01	-13	Vertical
6678.42	-39.54	-13	Vertical
9961.93	-37.76	-13	Vertical
17822.17	-34.38	-13	Vertical

Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.56	-49.14	-13	Vertical
2782.01	-47.45	-13	Vertical
3727.93	-40.84	-13	Vertical
6677.70	-39.42	-13	Vertical
9960.68	-37.16	-13	Vertical
17820.78	-34.11	-13	Vertical

Channel 1513

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.16	-48.51	-13	Vertical
2779.27	-47.00	-13	Vertical
3724.61	-41.31	-13	Vertical
6677.50	-39.41	-13	Vertical
9960.26	-36.84	-13	Vertical
17820.51	-34.05	-13	Vertical

HSDPA/HSUPA Mode:
Channel 1312

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.73	-49.23	-13	Vertical
2782.15	-47.63	-13	Vertical
3726.70	-40.66	-13	Vertical
6678.40	-39.87	-13	Vertical
9961.49	-36.91	-13	Vertical
17818.79	-34.23	-13	Vertical

Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.14	-48.58	-13	Vertical
2778.57	-47.24	-13	Vertical
3724.67	-40.55	-13	Vertical
6677.50	-40.03	-13	Vertical
9962.17	-37.16	-13	Vertical
17821.29	-33.62	-13	Vertical

Channel 1513

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.48	-49.09	-13	Vertical
2778.57	-47.17	-13	Vertical
3726.50	-40.76	-13	Vertical
6678.70	-39.89	-13	Vertical
9961.08	-37.76	-13	Vertical
17820.45	-33.98	-13	Vertical

WCDMA band V

Test result:

WCDMA Mode:

Channel 4132

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.41	-53.06	-13	Vertical
1665.86	-50.88	-13	Vertical
2533.83	-44.78	-13	Vertical
2578.52	-44.59	-13	Vertical
8964.24	-39.21	-13	Vertical
9969.85	-36.04	-13	Vertical

Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.85	-52.77	-13	Vertical
1668.02	-51.44	-13	Vertical
2536.21	-44.26	-13	Vertical
2576.07	-44.17	-13	Vertical
8963.66	-39.21	-13	Vertical
9973.26	-36.83	-13	Vertical

Channel 4233

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1650.03	-53.30	-13	Vertical
1668.10	-51.16	-13	Vertical
2535.44	-44.65	-13	Vertical
2576.37	-43.75	-13	Vertical
8963.54	-39.27	-13	Vertical
9970.96	-36.30	-13	Vertical

HSDPA/HSUPA Mode:
Channel 4132

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.53	-53.11	-13	Vertical
1665.68	-50.93	-13	Vertical
2535.59	-44.03	-13	Vertical
2577.28	-43.68	-13	Vertical
8963.49	-39.79	-13	Vertical
9971.86	-35.98	-13	Vertical

Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.56	-52.62	-13	Vertical
1664.99	-50.88	-13	Vertical
2534.02	-44.08	-13	Vertical
2575.61	-44.39	-13	Vertical
8963.30	-39.99	-13	Vertical
9971.74	-36.62	-13	Vertical

Channel 4233

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.65	-52.53	-13	Vertical
1668.26	-50.93	-13	Vertical
2533.34	-44.30	-13	Vertical
2578.42	-44.13	-13	Vertical
8961.97	-39.81	-13	Vertical
9972.78	-36.64	-13	Vertical

---The end of the test report---