

TEST REPORT FOR WCDMA TESTING

Report No.: SRTC2022-9004(F)-22121601 (B)

Product Name: Smart Phone

Model Name: PGT-N19

Applicant: Honor Device Co., Ltd.

Manufacturer: Honor Device Co., Ltd.

Specification: FCC Part 24E, Part 22H, Part 27,Part 2 (2022)

FCC ID: 2AYGCPGT-N19

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

1. GENERAL INFORMATION	2
1.1 Notes of the test report	2
1.2 Information about the testing laboratory	2
1.3 Applicant's details	2
1.4 Manufacturer's details	2
1.5 Test Environment	3
2 DESCRIPTION OF THE DEVICE UNDER TEST	4
2.1 Final Equipment Build Status	4
2.2 Support Equipment	4
3 REFERENCE SPECIFICATION	5
4 KEY TO NOTES AND RESULT CODES	5
5 RESULT SUMMARY	6
6 TEST RESULT	8
6.1 RF Power Output	8
6.2 Effective Radiated Power and Effective Isotropic Radiated Power	9
6.3 Occupied Bandwidth	10
6.4 Emission Bandwidth	11
6.5 Spurious Emissions at antenna terminal	12
6.6 Band Edges Compliance	13
6.7 Frequency Stability	14
6.8 Radiated Spurious Emissions	15
6.9 Peak-Average Ratio	17
7 MEASUREMENT UNCERTAINTIES	18
8 TEST EQUIPMENTS	19
APPENDIX A – TEST DATA OF CONDUCTED EMISSION	20
APPENDIX B – TEST DATA OF RADIATED EMISSION	86

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)
Test Site 1:	15th Building, No.30 Shixing Street, Shijingshan District
Test Site 2:	No.80, Zhaojiachang, Beizang, Daxing District
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:	Honor Device Co., Ltd.
Address:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

1.4 Manufacturer's details

Company:	Honor Device Co., Ltd.
Address:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2022-12-16
Testing Start Date:	2022-12-17
Testing End Date:	2023-01-12

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

Normal Supply Voltage (V d.c.):	3.91
Maximum Extreme Supply Voltage (V d.c.):	4.40
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:1850~1910MHz Rx:1930~1990MHz WCDMA Band IV:Tx: 1710~1755MHz Rx: 2110~2155MHz WCDMA Band V:Tx:824~849MHz Rx: 869~894MHz
Modulation Type:	QPSK/16QAM
Test Mode	HSDPA/HSUPA/ HSDPA+/ DC-HSDPA
Emission Designator:	WCDMA Band II: 4M16F9W WCDMA Band IV: 4M16F9W WCDMA Band V: 4M15F9W
Duplex Mode:	FDD
Duplex Spacing:	WCDMA Band II: 80MHz WCDMA Band IV: 400MHz WCDMA Band V: 45MHz
Antenna Type:	Integrated
Antenna Gain:	WCDMA Band II (max): -1.2dBi WCDMA Band IV (max): -1.6dBi WCDMA Band V (max): -4.8dBi
Power Supply:	Battery/DC supply
Software Revision:	7.1.0.107(C900E100R1P2)
Hardware Revision:	HN2PGETM
IMEI:	866456060024343 866456060024327

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	2021	Frequency allocations and radio treaty matters; general rules and regulations
FCC Part22	2021	Public mobile services
FCC Part24	2021	Personal communications services
FCC Part27	2021	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

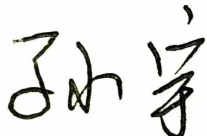
The following are the definition of the test result.

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

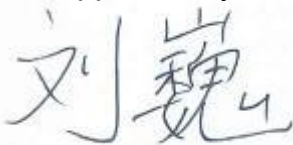
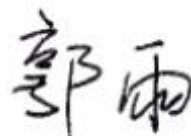
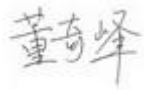
No.	Test case	FCC reference	Verdict	Test Site
1	RF Power Output	2.1046	Pass	1
2	Effective Radiated Power and Effective Isotropic Radiated Power	22.913(a),24.232(c),27.50(d)(4)	Pass	1
3	Occupied Bandwidth	2.1049	Pass	1
4	Emission Bandwidth	2.1049	Pass	1
5	Spurious Emissions at antenna terminal	2.1051,22.917(a),24.238(a),27.53(h)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

Test Site 1: 15th Building, No.30 Shixing Street, Shijingshan District

This Test Report Is Approved by: Mr. Peng Zhen 	Review by: Mr. Li Bin 
Tested and Issued by: Mr.Sun Yu 	Approved date: 20230113

No.	Test case	FCC reference	Verdict	Test Site
9	Radiated Spurious Emissions	2.1053,22.917(a),24.238(a),27.53(h)	Pass	2

Test Site 2: No.80, Zhaojiachang, Beizang, Daxing District

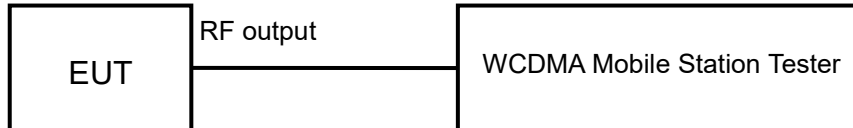
This Test Report Is Approved by: Mr. Liu Wei 	Review by: Mr. Guo Yu 
Tested and Issued by: Mr. Dong Qifeng 	Approved date: 20230113

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:

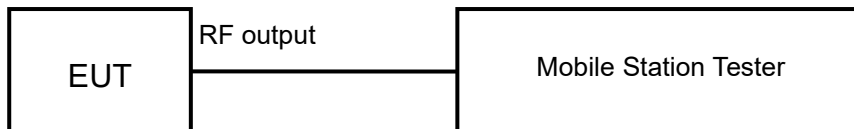
The test results are shown in Appendix A.

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, $\text{ERP} = \text{EIRP} - 2.15 \text{ (dB)}$.

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

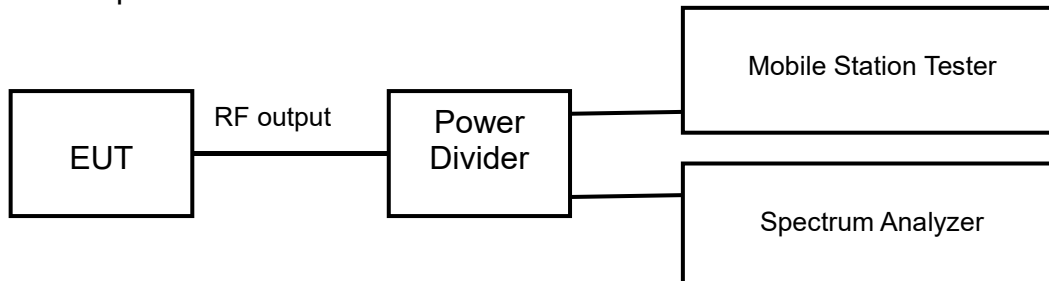
Test result:

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

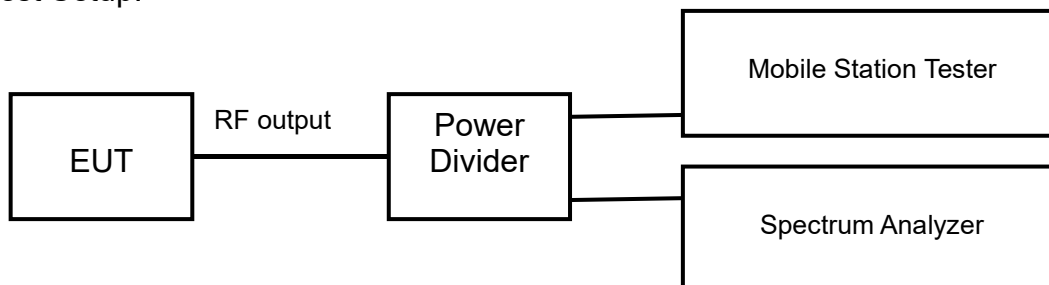
Test result:
The test results are shown in Appendix A.

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 $\geq 3 \times$ 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 emission bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

Test result:

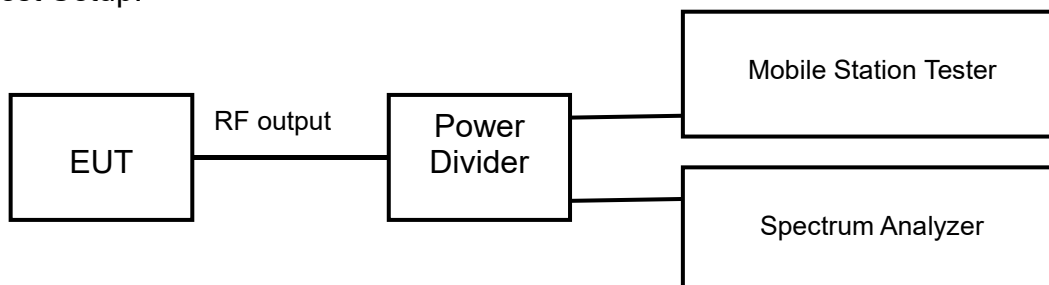
The test results are shown in Appendix A.

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:

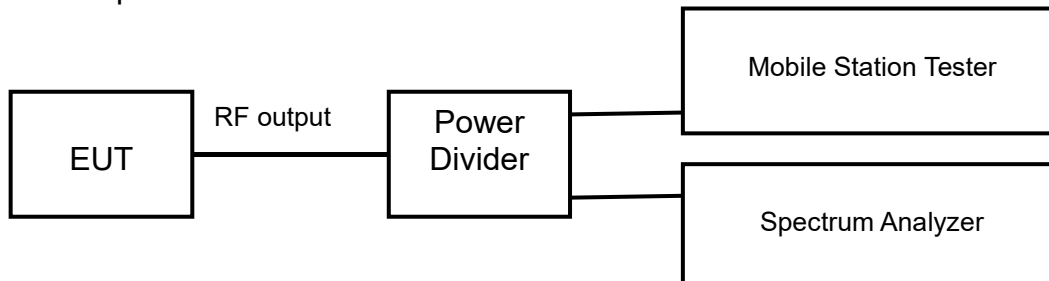
The test results are shown in Appendix A.

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 $\geq 2 \times \text{Span/RBW}$
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 $43 + \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test result:

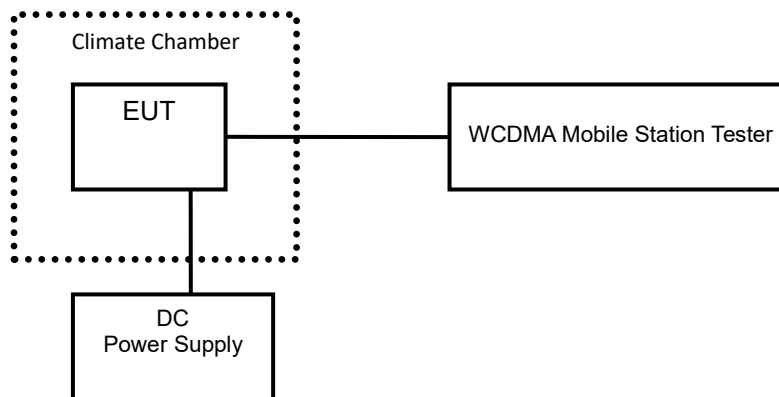
The test results are shown in Appendix A.

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 $\pm 0.00125\%$ (± 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:

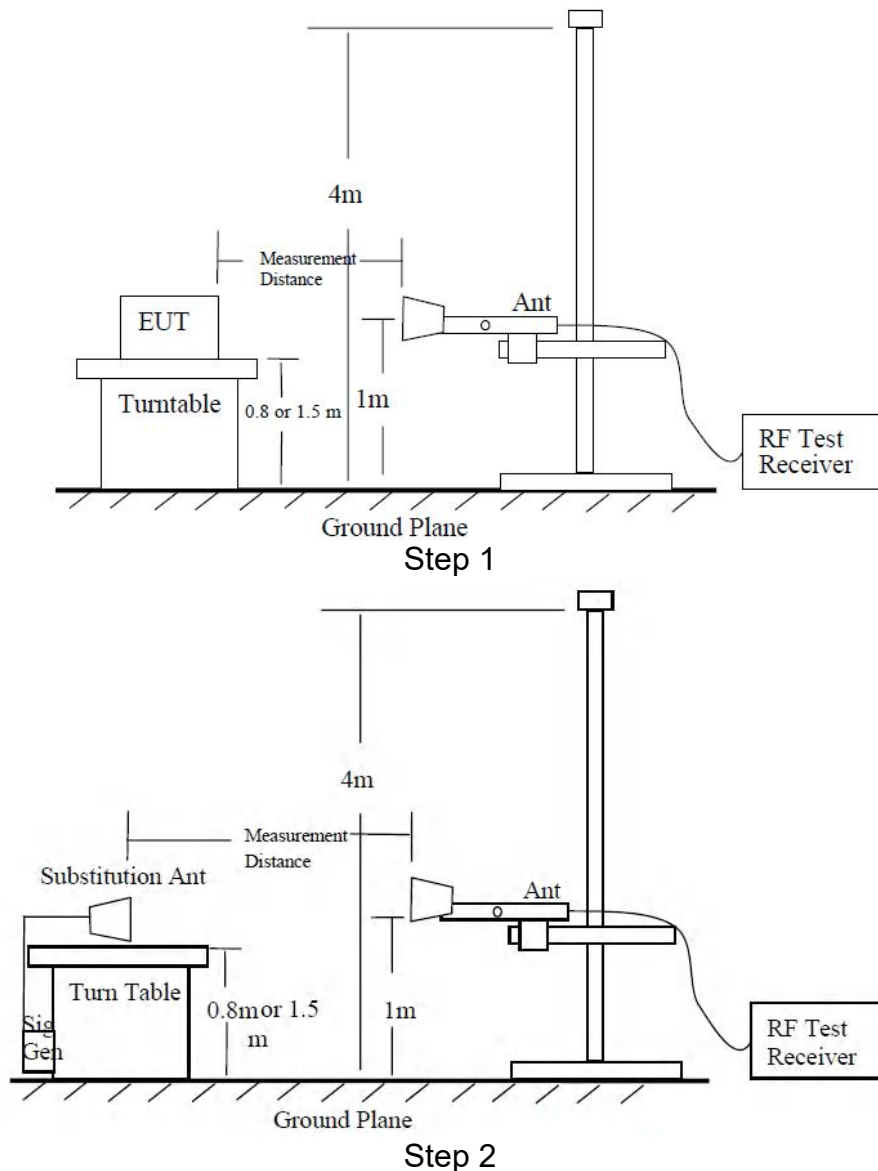
The test results are shown in Appendix A.

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, $ERP = EIRP - 2.15 \text{ (dB)}$.

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:

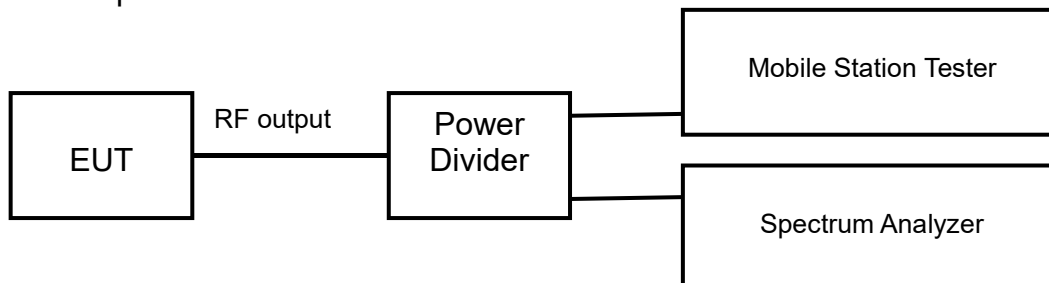
The test results are shown in Appendix B.

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	2022.06.21	2023.06.20
2	Radio Communication Station / CMW500	R&S	161702	2022.06.21	2023.06.20
3	Spectrum Analyzer / FSV40	R&S	101065	2022.06.21	2023.06.20
4	Spectrum Analyzer / N9020A	Agilent	MY48010771	2022.05.18	2023.05.17
5	Power Divider / 11667A	HP	19632	2022.06.21	2023.06.20
6	DC Power Supply / E3645A	Agilent	MY40000741	2022.04.22	2023.04.21
7	Temperature chamber / SH241	ESPEC	92013758	2022.06.21	2023.06.20
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	2022.06.21	2023.06.20
16	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100513	2022.06.21	2023.06.20
17	Ultra log antenna / HL562	R&S	100016	2022.06.21	2023.06.20
18	Receive antenna /3160-09	SCHWARZ-BECK	002058-002	2022.06.21	2023.06.20
19	EMI test receiver / ESI 40	R&S	100015	2022.06.21	2023.06.20
20	EMI test receiver / ESCS30	R&S	100029	2022.06.21	2023.06.20
21	Receive antenna / HL562	R&S	100167	2022.06.21	2023.06.20
22	AMN / ENV216	R&S	3560.6550.12	2022.06.21	2023.06.20
23	FCC auto test system / RT9100L-2	Radiosky	V1.05	/	/
24	EMI test software / EMC32	R&S	V10.20.01	/	/

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

WCDMA Band II

1. RF Power Output

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC, 12.2kbps	1852.4	9262	25.23
Release 99	RMC, 12.2kbps	1880	9400	24.98
Release 99	RMC, 12.2kbps	1907.6	9538	24.80

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSDPA	Subtest1	1852.4	9262	23.66
HSDPA	Subtest1	1880	9400	23.66
HSDPA	Subtest1	1907.6	9538	23.50
HSDPA	Subtest2	1852.4	9262	23.22
HSDPA	Subtest2	1880	9400	23.12
HSDPA	Subtest2	1907.6	9538	22.90
HSDPA	Subtest3	1852.4	9262	23.08
HSDPA	Subtest3	1880	9400	23.00
HSDPA	Subtest3	1907.6	9538	22.82
HSDPA	Subtest4	1852.4	9262	23.10
HSDPA	Subtest4	1880	9400	23.00
HSDPA	Subtest4	1907.6	9538	22.81

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSUPA	Subtest1	1852.4	9262	23.77
HSUPA	Subtest1	1880	9400	23.66
HSUPA	Subtest1	1907.6	9538	23.47
HSUPA	Subtest2	1852.4	9262	20.25
HSUPA	Subtest2	1880	9400	20.13
HSUPA	Subtest2	1907.6	9538	19.94
HSUPA	Subtest3	1852.4	9262	21.27
HSUPA	Subtest3	1880	9400	21.13
HSUPA	Subtest3	1907.6	9538	20.92
HSUPA	Subtest4	1852.4	9262	20.11
HSUPA	Subtest4	1880	9400	19.82
HSUPA	Subtest4	1907.6	9538	19.58
HSUPA	Subtest5	1852.4	9262	23.75
HSUPA	Subtest5	1880	9400	23.63
HSUPA	Subtest5	1907.6	9538	23.46

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSDPA+	QPSK	1852.4	9262	23.28
HSDPA+	QPSK	1880	9400	23.04
HSDPA+	QPSK	1907.6	9538	22.76
HSDPA+	16QAM	1852.4	9262	23.28
HSDPA+	16QAM	1880	9400	23.08
HSDPA+	16QAM	1907.6	9538	22.88

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest1	1852.4	9262	23.82
DC-HSDPA	Subtest1	1880	9400	23.17
DC-HSDPA	Subtest1	1907.6	9538	23.47
DC-HSDPA	Subtest2	1852.4	9262	23.27
DC-HSDPA	Subtest2	1880	9400	23.20
DC-HSDPA	Subtest2	1907.6	9538	22.95
DC-HSDPA	Subtest3	1852.4	9262	23.26
DC-HSDPA	Subtest3	1880	9400	23.12
DC-HSDPA	Subtest3	1907.6	9538	22.93
DC-HSDPA	Subtest4	1852.4	9262	23.16
DC-HSDPA	Subtest4	1880	9400	23.10
DC-HSDPA	Subtest4	1907.6	9538	22.81

2. Occupied Bandwidth

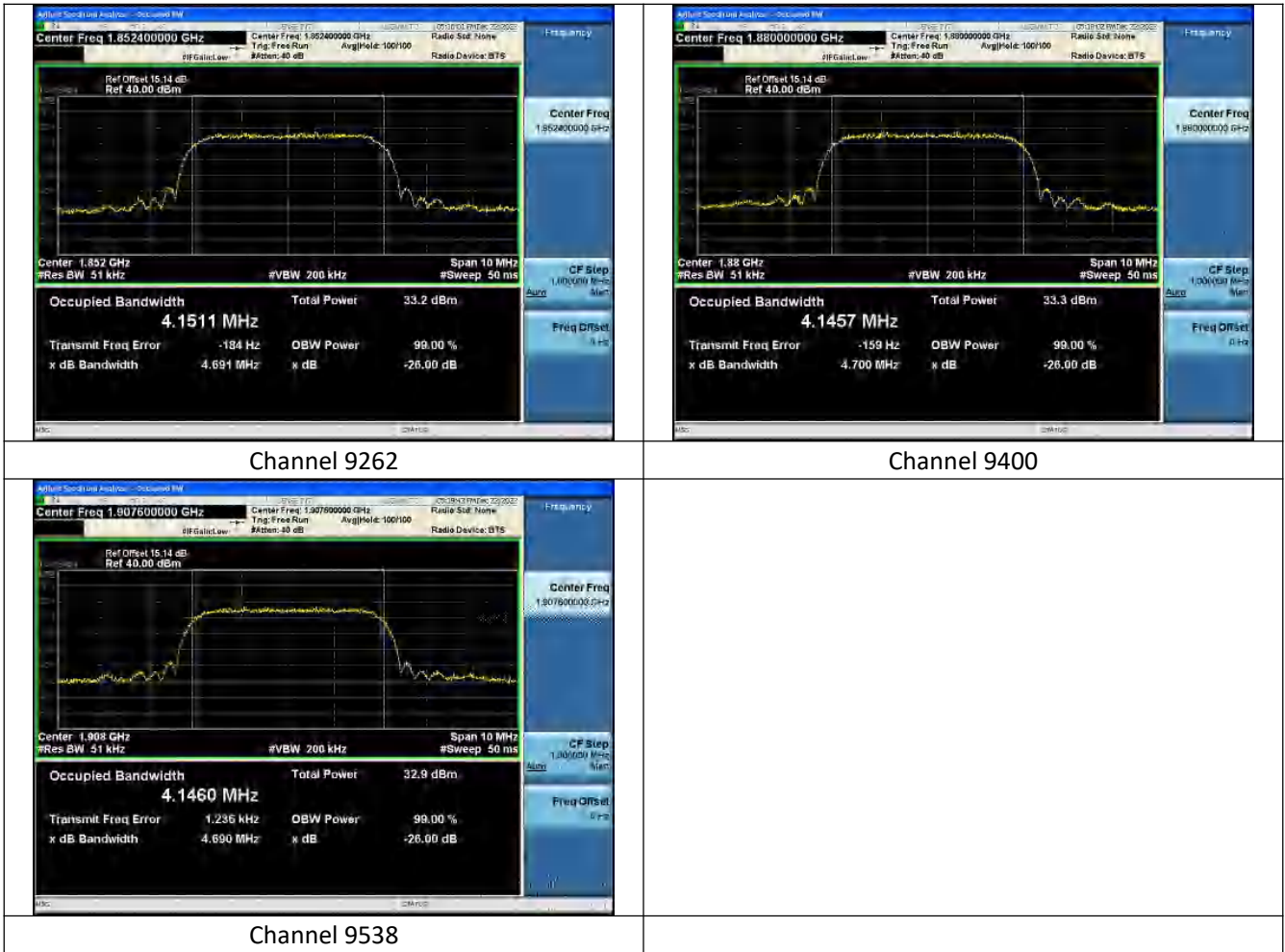
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
Release 99	1852.4	9262	4.15
Release 99	1880	9400	4.15
Release 99	1907.6	9538	4.15

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSDPA	1852.4	9262	4.15
HSDPA	1880	9400	4.14
HSDPA	1907.6	9538	4.14

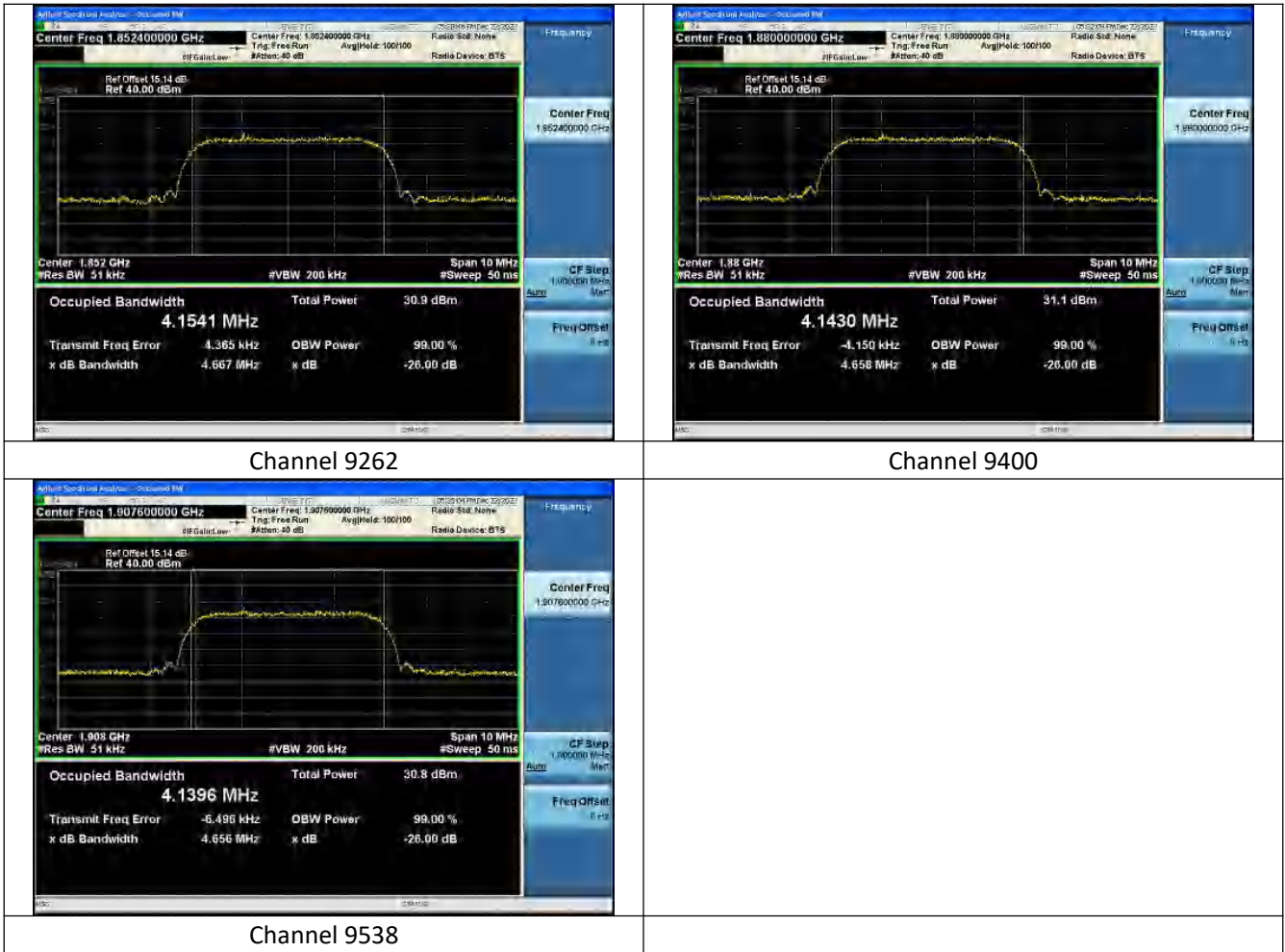
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSUPA	1852.4	9262	4.15
HSUPA	1880	9400	4.16
HSUPA	1907.6	9538	4.16

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

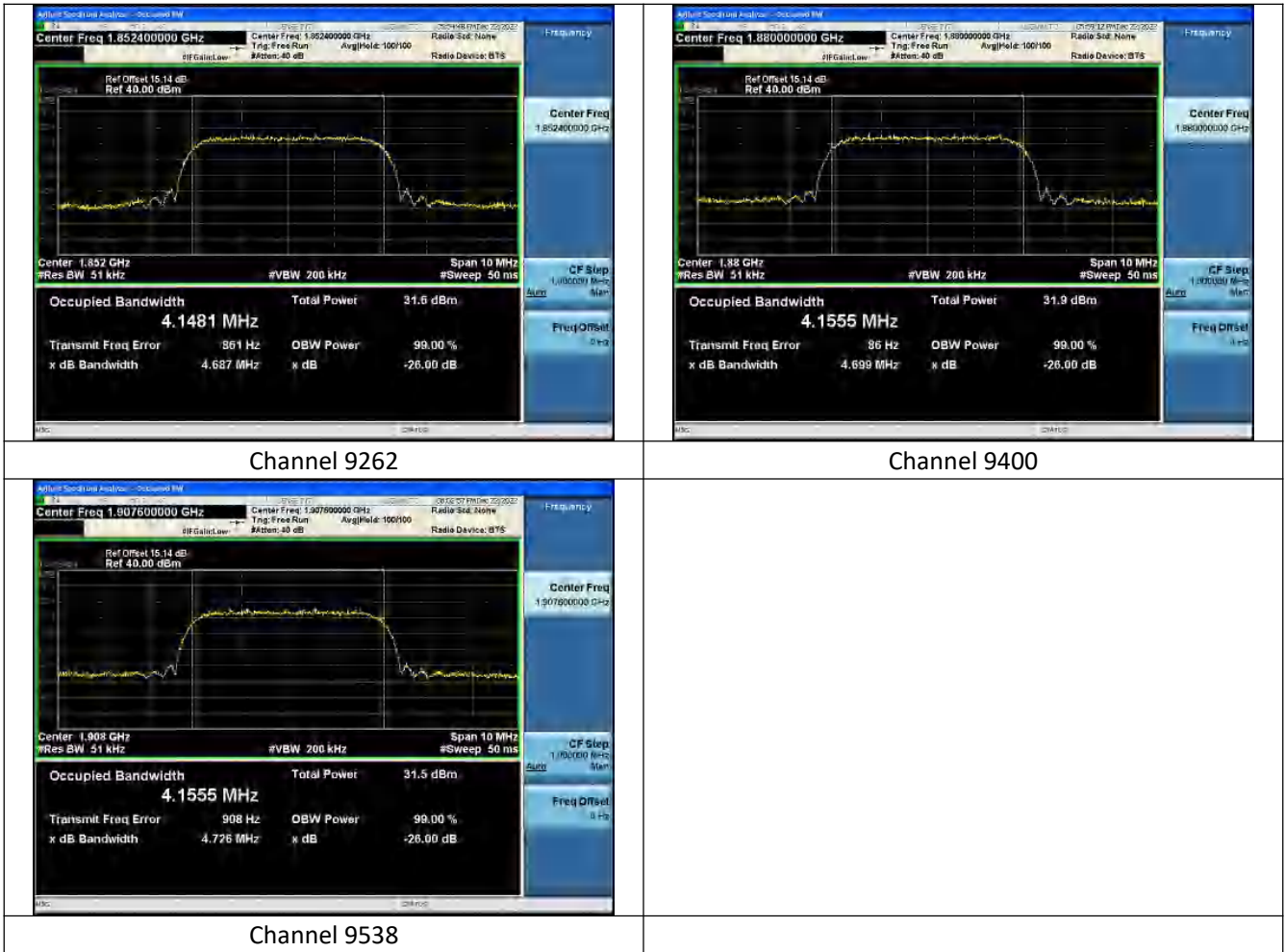
Test Mode: Release 99



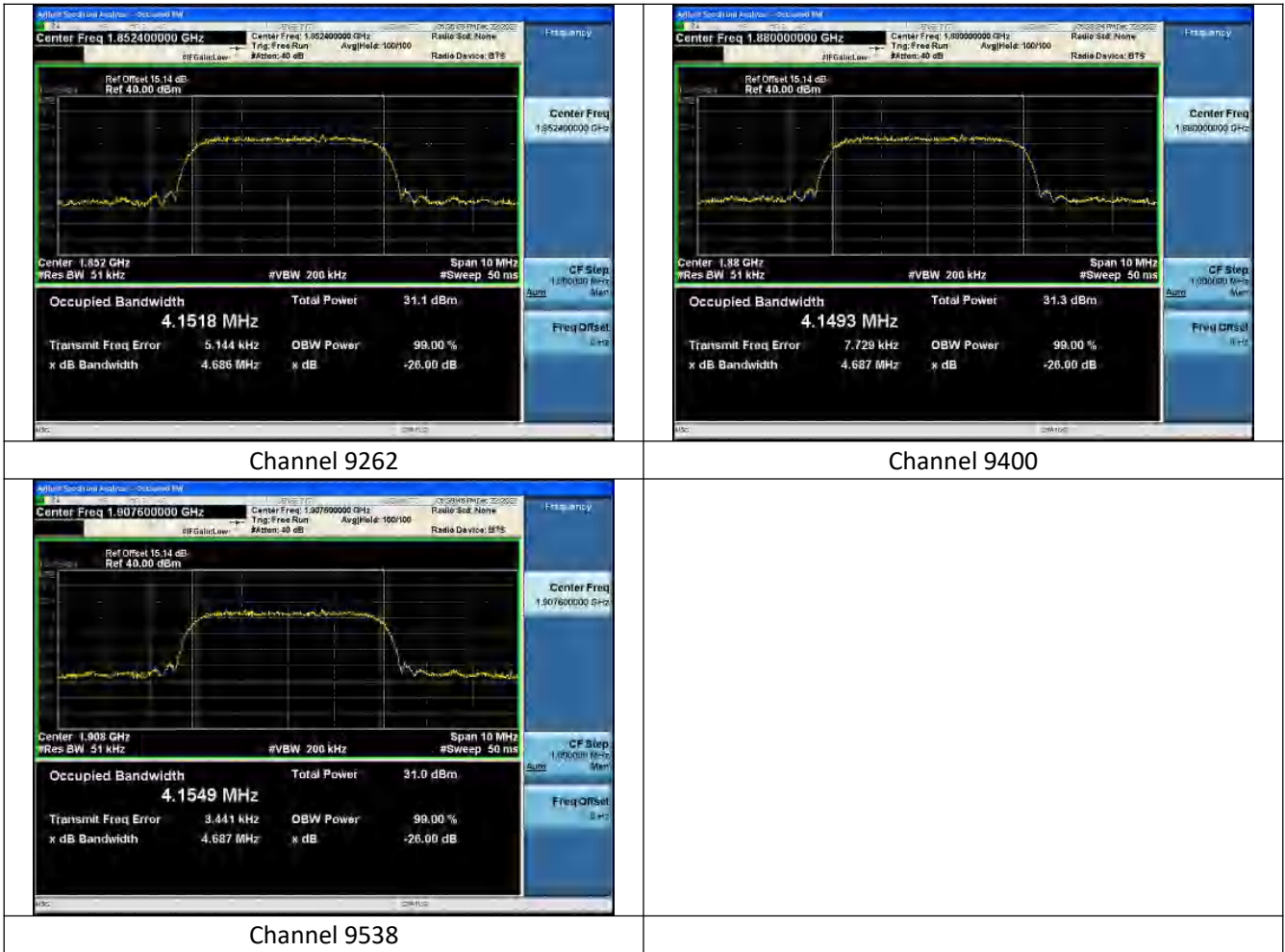
Test Mode: HSDPA



Test Mode: HSUPA



Test Mode: HSDPA+



3. Emission Bandwidth

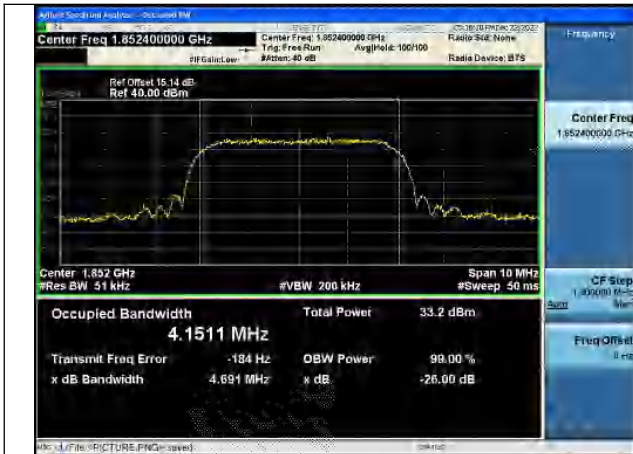
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
Release 99	1852.4	9262	4.69
Release 99	1880	9400	4.7
Release 99	1907.6	9538	4.69

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSDPA	1852.4	9262	4.67
HSDPA	1880	9400	4.66
HSDPA	1907.6	9538	4.66

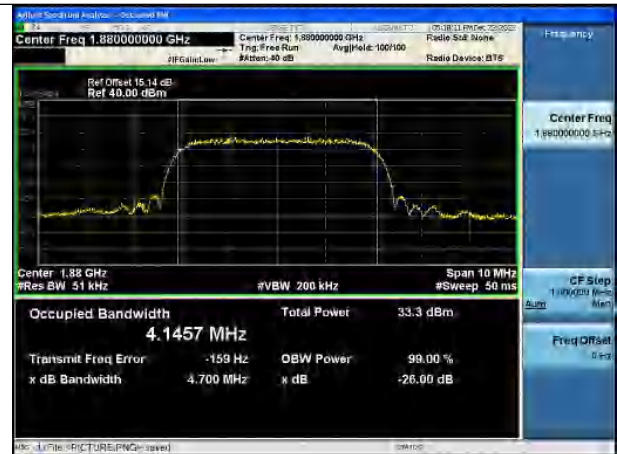
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSUPA	1852.4	9262	4.69
HSUPA	1880	9400	4.7
HSUPA	1907.6	9538	4.73

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSDPA+	1852.4	9262	4.69
HSDPA+	1880	9400	4.69
HSDPA+	1907.6	9538	4.69

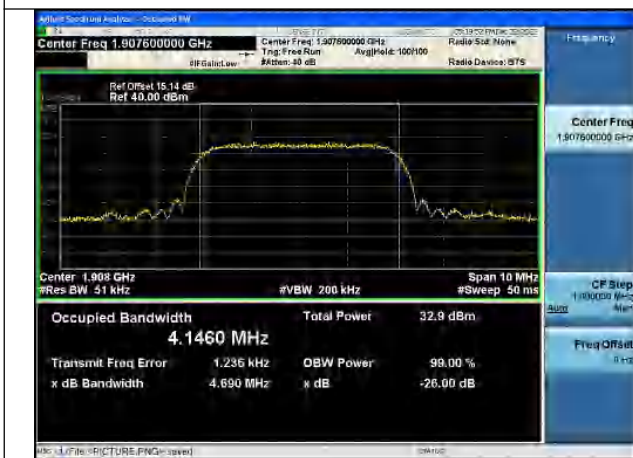
Test Mode: Release 99



Channel 9262

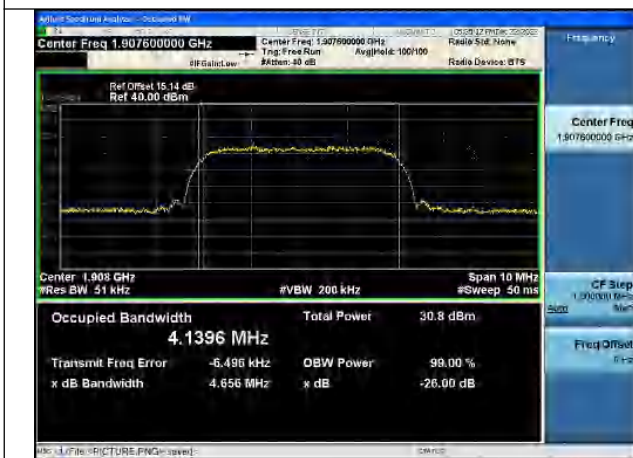
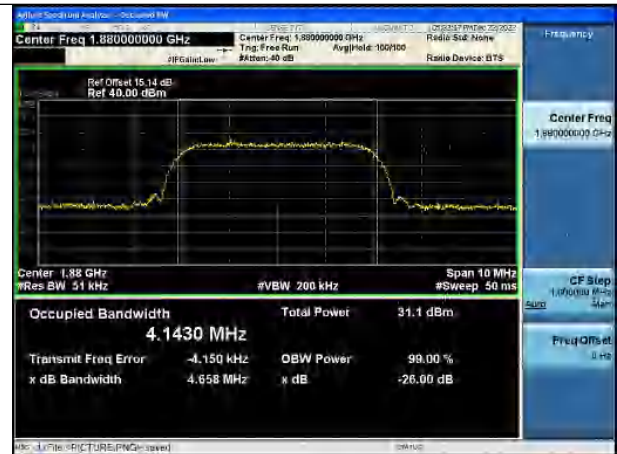
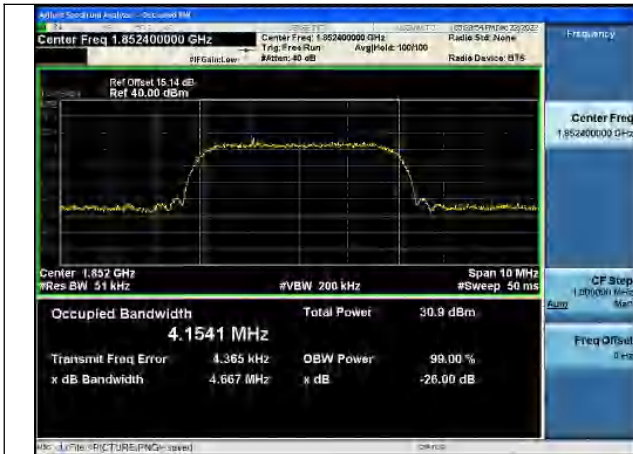


Channel 9400

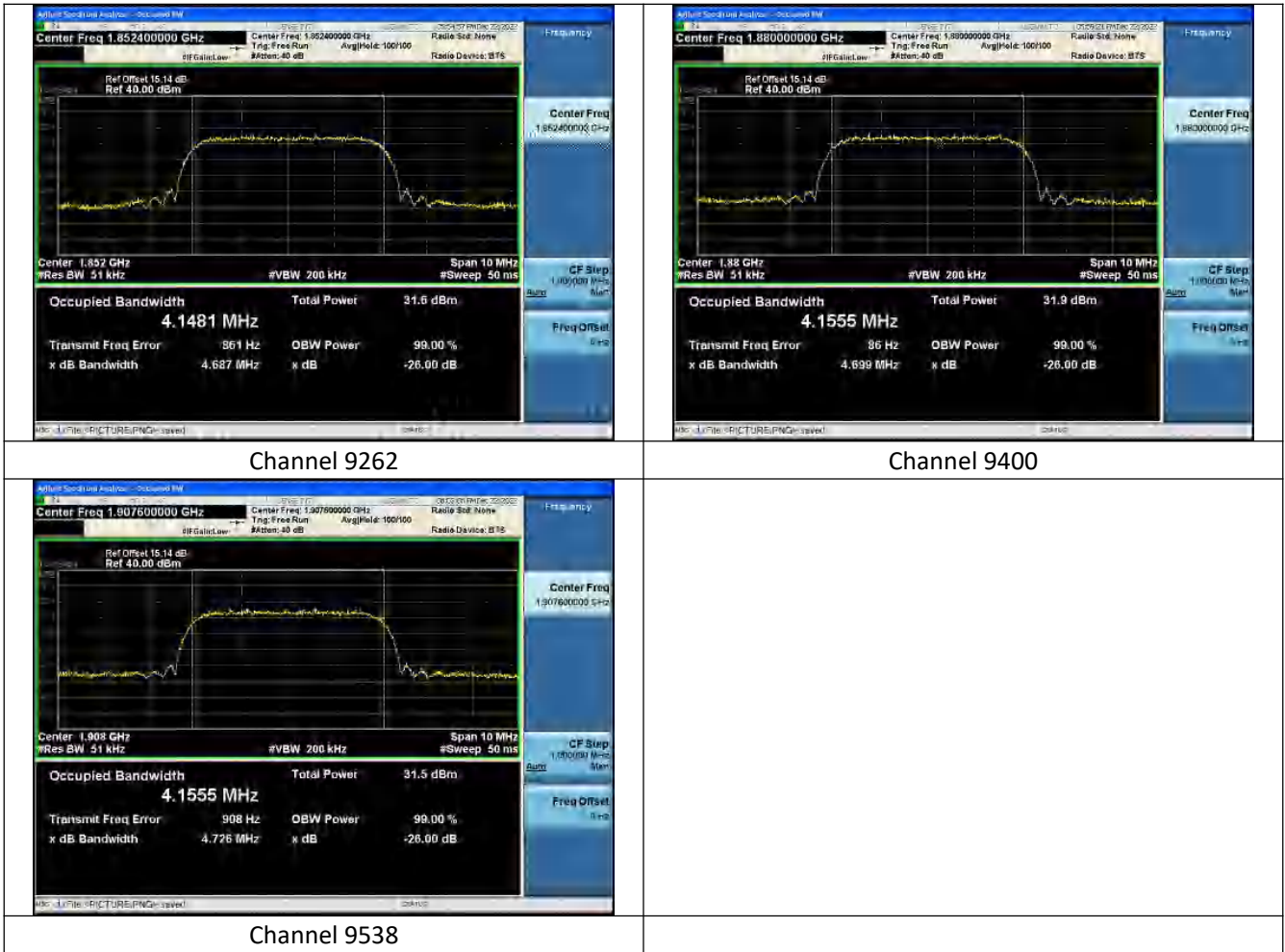


Channel 9538

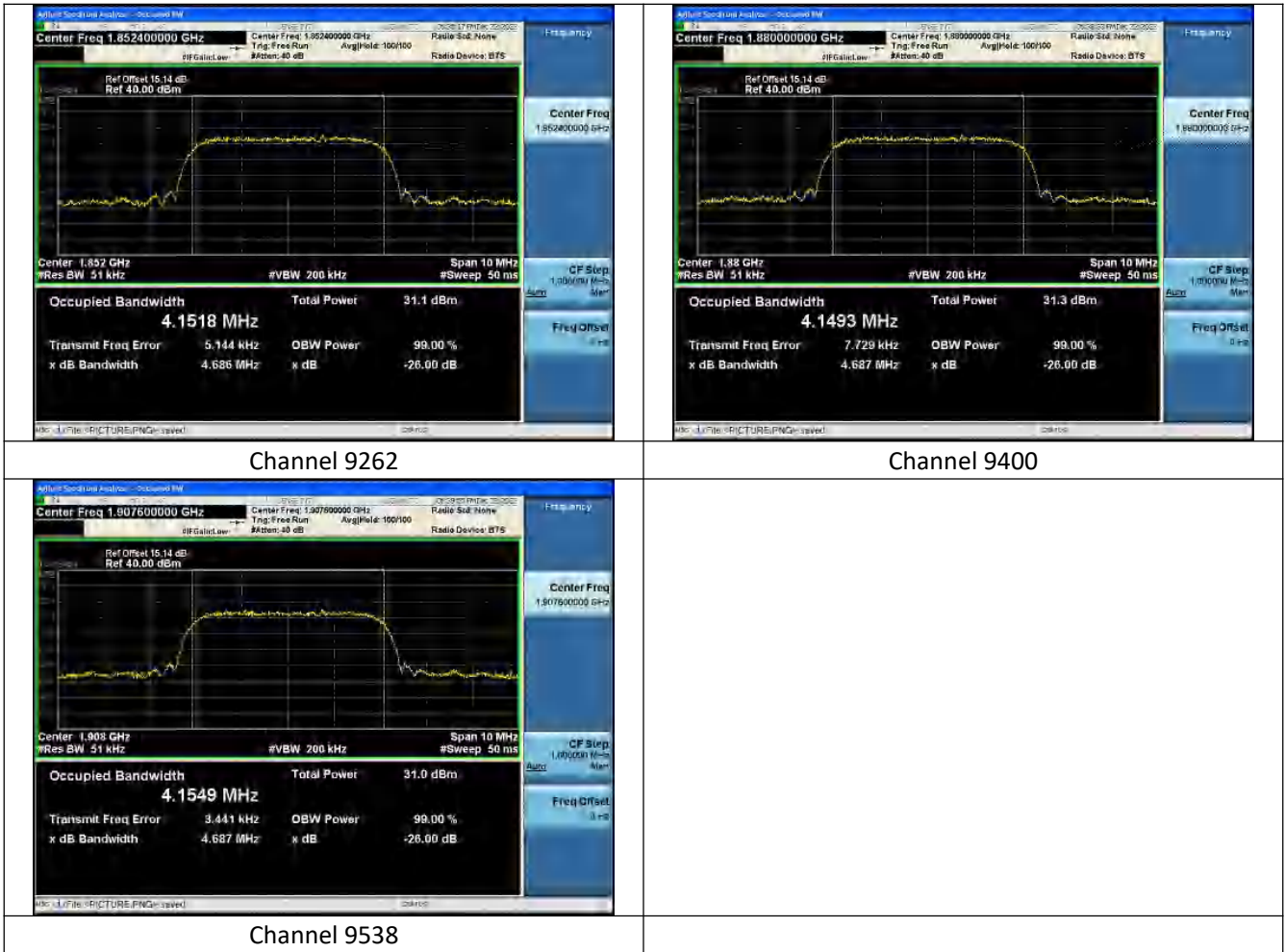
Test Mode: HSDPA



Test Mode: HSUPA

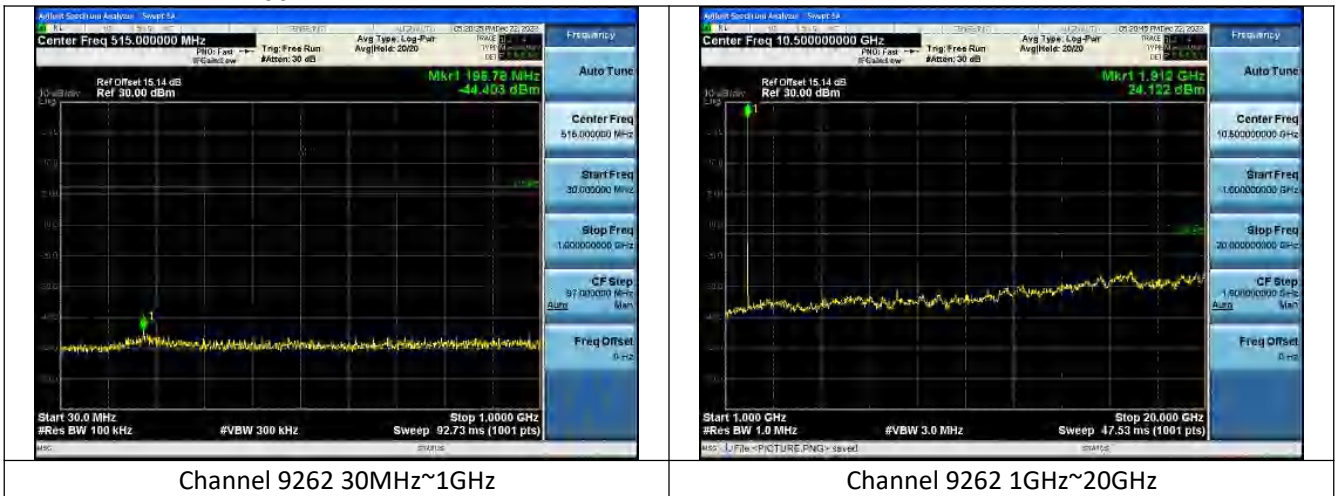


Test Mode: HSDPA+



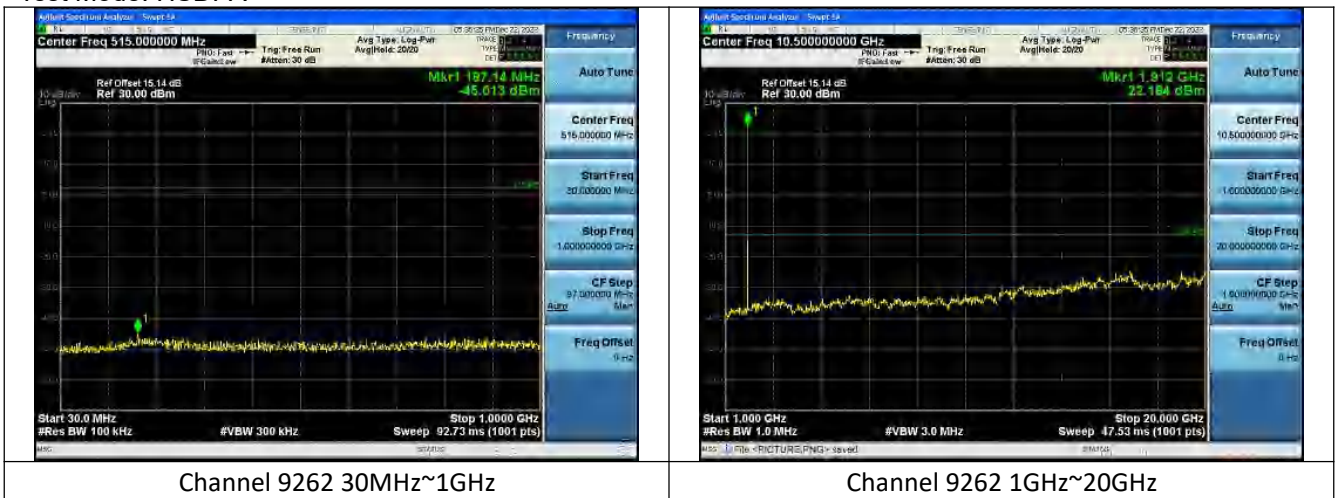
4. Spurious Emissions at antenna terminal

Test Mode: Release 99



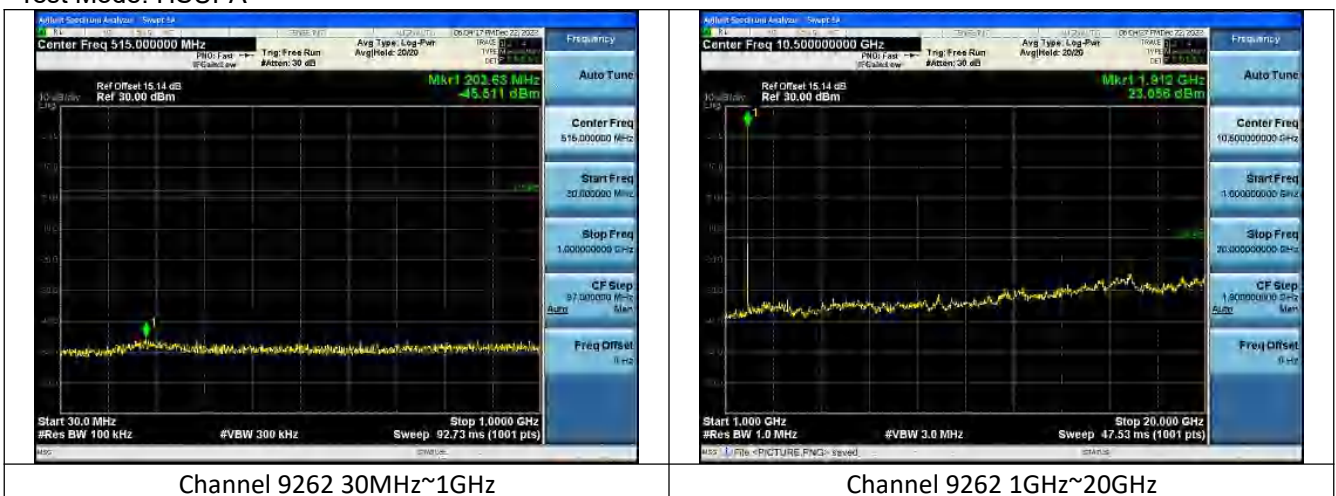
Note: The signal beyond the limit is the signal transmitted by EUT.

Test Mode: HSDPA



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

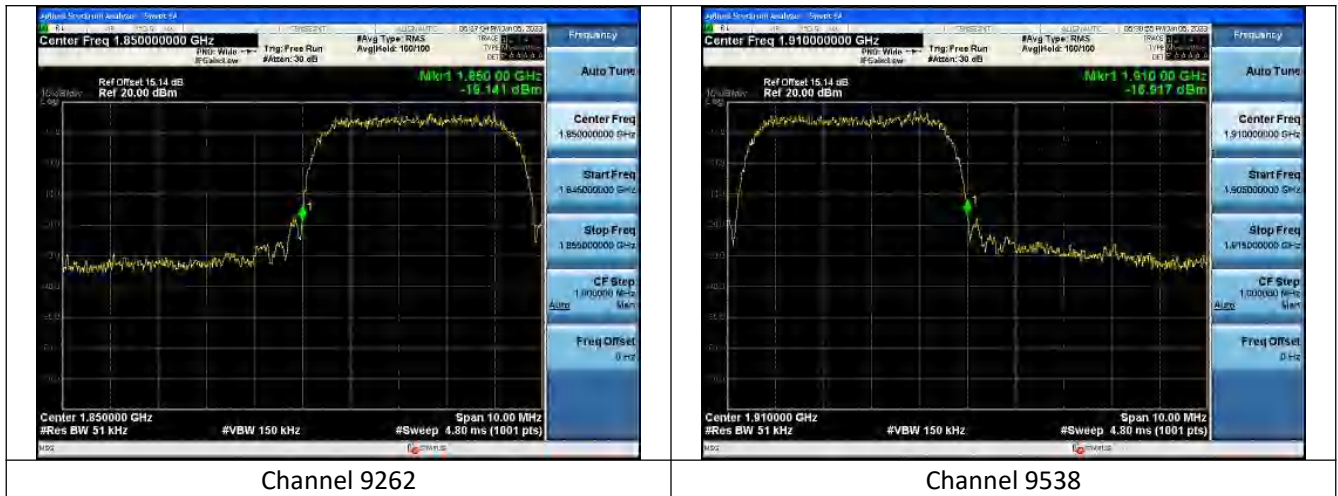
Test Mode: HSUPA



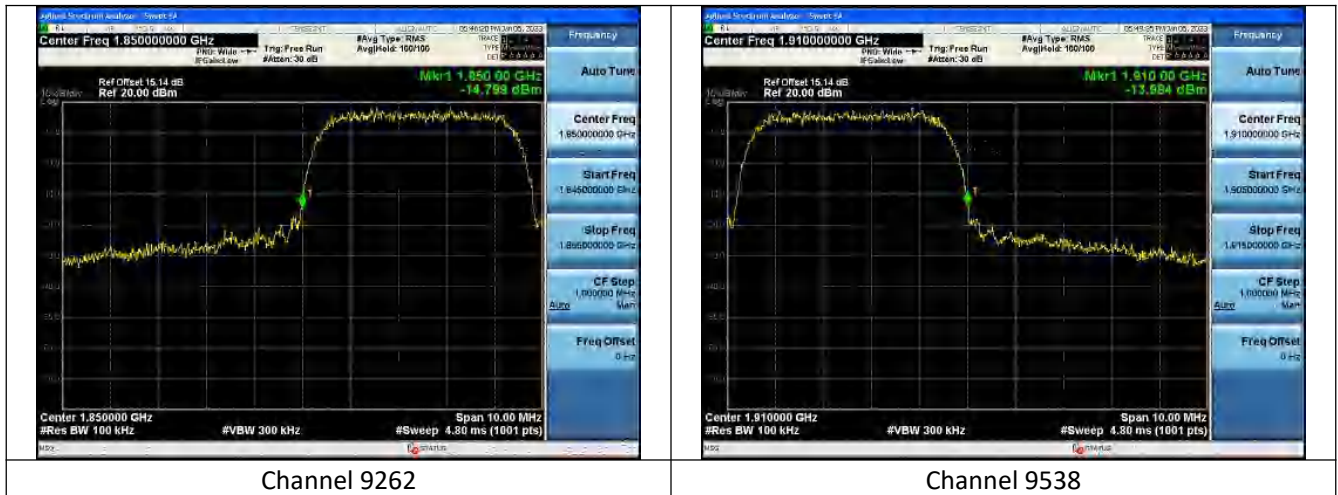
Note: The signal beyond the limit is the signal transmitted by EUT.

5. Band Edges Compliance

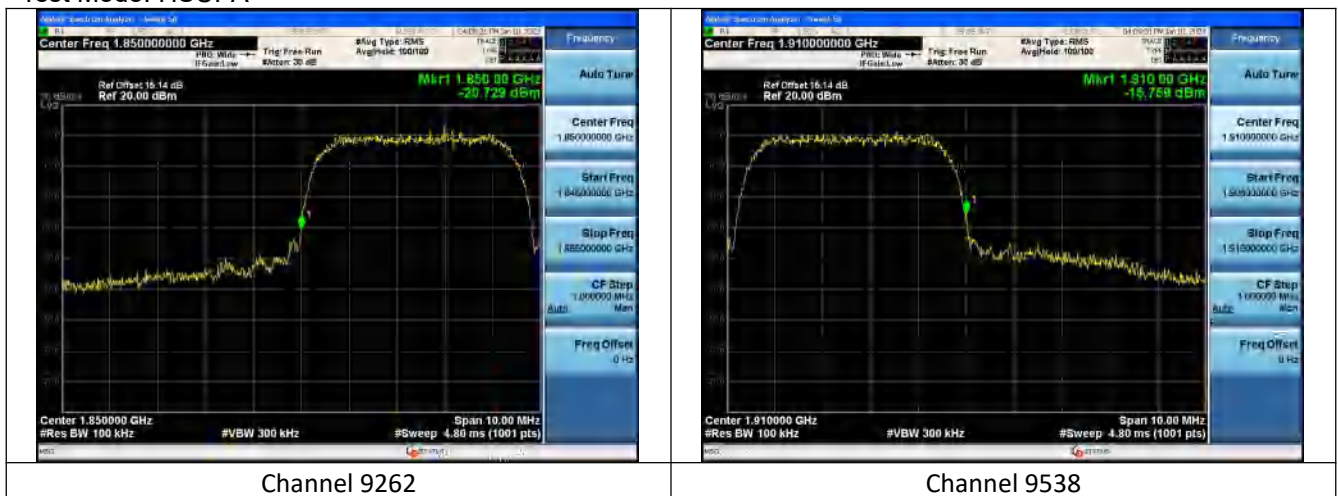
Test Mode: Release 99



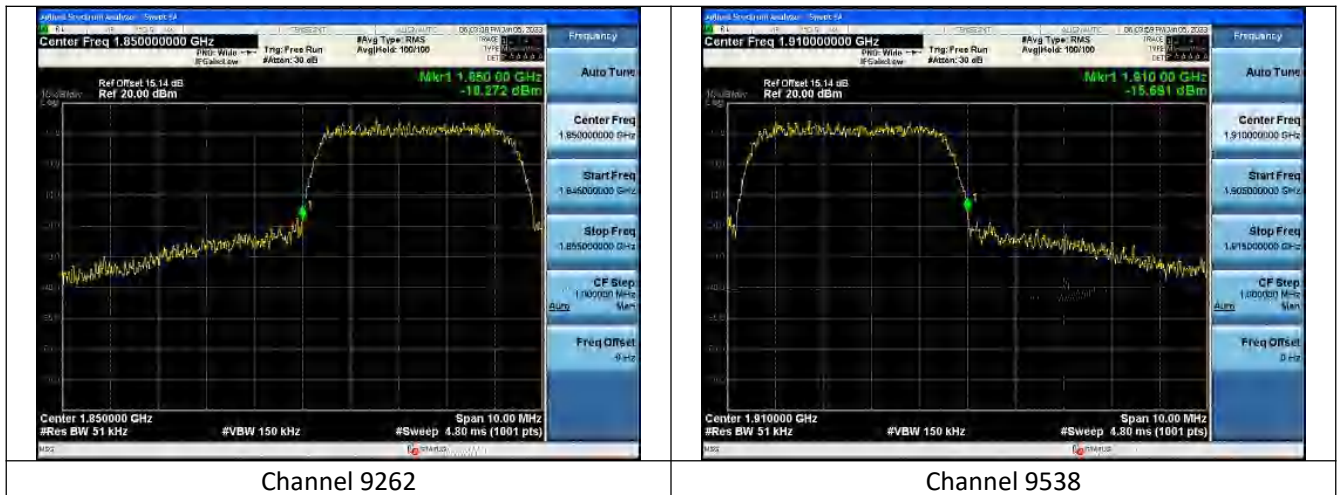
Test Mode: HSDPA



Test Mode: HSUPA



Test Mode: HSDPA+



6. Frequency Stability

Test Mode: Release 99

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 9262	Channel 9400	Channel 9538
Release 99	-10	0.002	-0.001	0.002
Release 99	-0	0.003	0.002	0.001
Release 99	+10	0.003	0.002	-0.003
Release 99	+20	0.001	0.001	0.001
Release 99	+30	0.001	0.002	0.004
Release 99	+40	0.004	0.001	0.002
Release 99	+50	0.001	0.001	-0.001
Release 99	+55	0.001	0.001	0.001
Name	Voltage	Test Result (ppm)@NT		
		Channel 9262	Channel 9400	Channel 9538
Release 99	LV	0.001	0.001	0.002
Release 99	HV	0.002	0.001	0.002

Test Mode: HSDPA

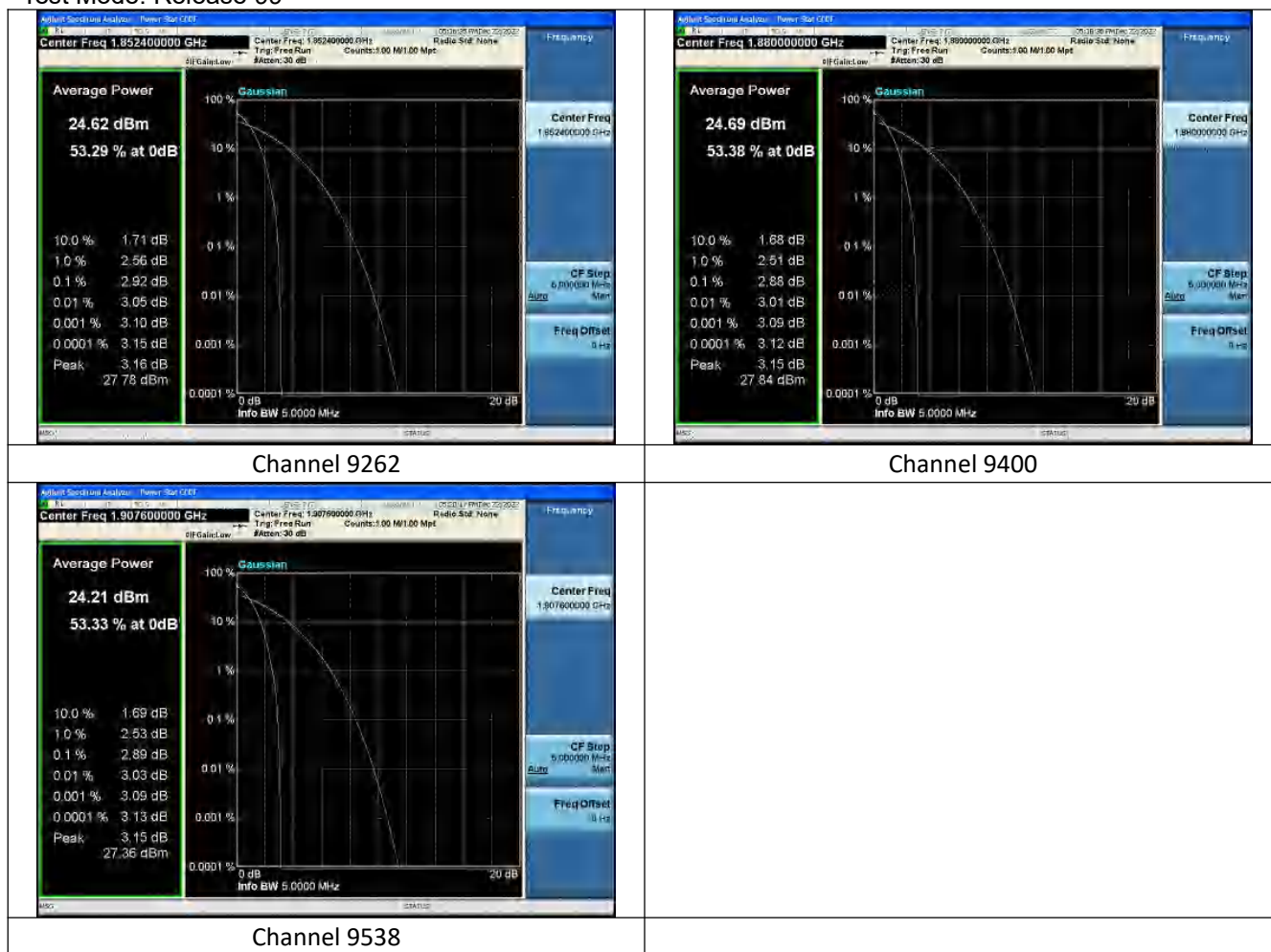
Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 9262	Channel 9400	Channel 9538
Subtest1	-10	0.001	-0.001	0.001
Subtest1	-0	0.002	0.002	0.001
Subtest1	+10	-0.001	0.001	0.001
Subtest1	+20	0.001	0.002	0.001
Subtest1	+30	0.001	0.001	-0.002
Subtest1	+40	0.003	-0.001	0.001
Subtest1	+50	0.001	0.001	0.001
Release 99	+55	0.002	0.003	0.001
Name	Voltage	Test Result (ppm)@NT		
		Channel 9262	Channel 9400	Channel 9538
Subtest1	LV	0.001	0.002	0.001
Subtest1	HV	0.001	0.001	0.002

Test Mode: HSUPA

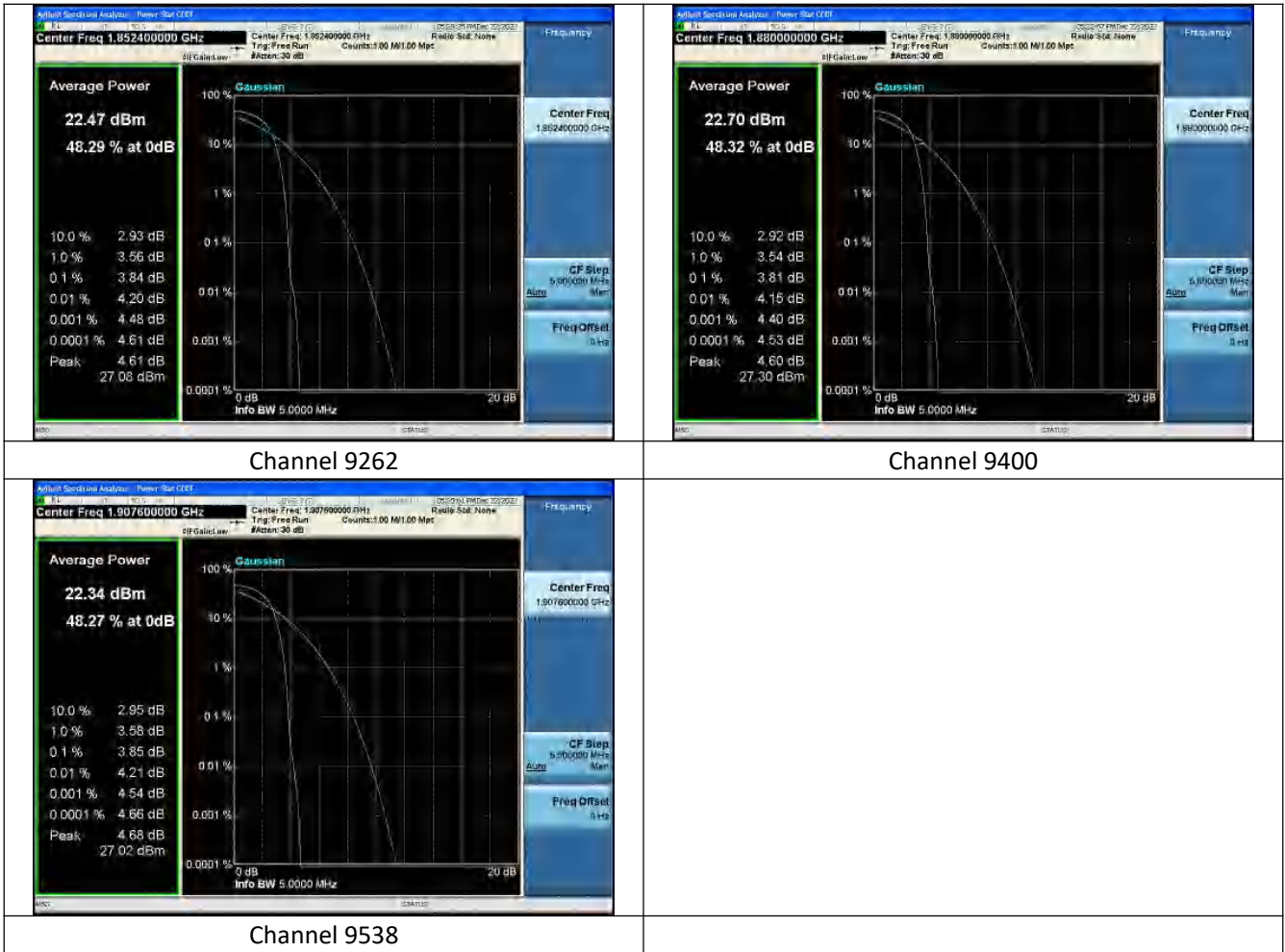
Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 9262	Channel 9400	Channel 9538
Subtest1	-10	-0.001	0.001	0.001
Subtest1	-0	0.002	0.001	0.002
Subtest1	+10	0.002	0.002	-0.002
Subtest1	+20	0.003	-0.001	0.001
Subtest1	+30	0.001	0.001	0.001
Subtest1	+40	0.001	0.001	0.001
Subtest1	+50	0.001	0.002	0.001
Subtest1	+55	0.001	0.003	0.001
Name	Voltage	Test Result (ppm)@NT		
		Channel 9262	Channel 9400	Channel 9538
Subtest1	LV	0.001	0.002	0.001
Subtest1	HV	0.001	0.001	0.001

7. Peak-Average Ratio

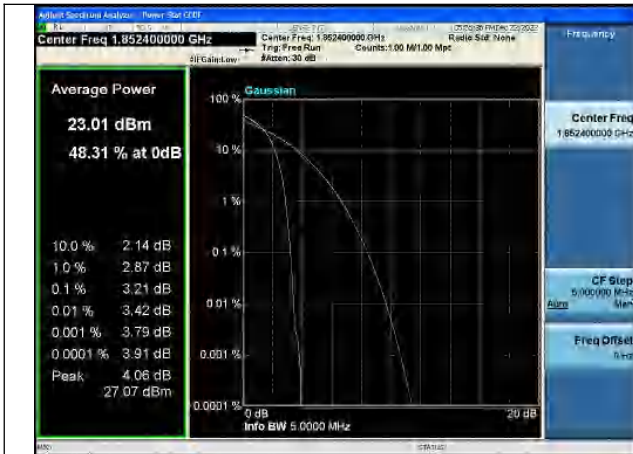
Test Mode: Release 99



Test Mode: HSDPA



Test Mode: HSUPA



Channel 9262



Channel 9400



Channel 9538

8. Effective Radiated Power and Effective Isotropic Radiated Power

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC,12.2kbps	1852.4	9262	25.23	24.03	0.253
Release 99	RMC,12.2kbps	1880	9400	24.98	23.78	0.239
Release 99	RMC,12.2kbps	1907.6	9538	24.80	23.60	0.229

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSDPA	Subtest1	1852.4	9262	23.66	22.46	0.176
HSDPA	Subtest1	1880	9400	23.66	22.46	0.176
HSDPA	Subtest1	1907.6	9538	23.50	22.30	0.170
HSDPA	Subtest2	1852.4	9262	23.22	22.02	0.159
HSDPA	Subtest2	1880	9400	23.12	21.92	0.156
HSDPA	Subtest2	1907.6	9538	22.90	21.70	0.148
HSDPA	Subtest3	1852.4	9262	23.08	21.88	0.154
HSDPA	Subtest3	1880	9400	23.00	21.80	0.151
HSDPA	Subtest3	1907.6	9538	22.82	21.62	0.145
HSDPA	Subtest4	1852.4	9262	23.10	21.90	0.155
HSDPA	Subtest4	1880	9400	23.00	21.80	0.151
HSDPA	Subtest4	1907.6	9538	22.81	21.61	0.145

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSUPA	Subtest1	1852.4	9262	23.77	22.57	0.181
HSUPA	Subtest1	1880	9400	23.66	22.46	0.176
HSUPA	Subtest1	1907.6	9538	23.47	22.27	0.169
HSUPA	Subtest2	1852.4	9262	20.25	19.05	0.080
HSUPA	Subtest2	1880	9400	20.13	18.93	0.078
HSUPA	Subtest2	1907.6	9538	19.94	18.74	0.075
HSUPA	Subtest3	1852.4	9262	21.27	20.07	0.102
HSUPA	Subtest3	1880	9400	21.13	19.93	0.098
HSUPA	Subtest3	1907.6	9538	20.92	19.72	0.094
HSUPA	Subtest4	1852.4	9262	20.11	18.91	0.078
HSUPA	Subtest4	1880	9400	19.82	18.62	0.073
HSUPA	Subtest4	1907.6	9538	19.58	18.38	0.069
HSUPA	Subtest5	1852.4	9262	23.75	22.55	0.180
HSUPA	Subtest5	1880	9400	23.63	22.43	0.175
HSUPA	Subtest5	1907.6	9538	23.46	22.26	0.168

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSDPA+	QPSK	1852.4	9262	23.28	22.08	0.161
HSDPA+	QPSK	1880	9400	23.04	23.04	0.201
HSDPA+	QPSK	1907.6	9538	22.76	21.56	0.143
HSDPA+	16QAM	1852.4	9262	23.28	22.08	0.161
HSDPA+	16QAM	1880	9400	23.08	21.88	0.154
HSDPA+	16QAM	1907.6	9538	22.88	21.68	0.147

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
DC-HSDPA	Subtest1	1852.4	9262	23.82	22.62	0.183
DC-HSDPA	Subtest1	1880	9400	23.17	21.97	0.157
DC-HSDPA	Subtest1	1907.6	9538	23.47	22.27	0.169
DC-HSDPA	Subtest2	1852.4	9262	23.27	22.07	0.161
DC-HSDPA	Subtest2	1880	9400	23.20	22.00	0.158
DC-HSDPA	Subtest2	1907.6	9538	22.95	21.75	0.150
DC-HSDPA	Subtest3	1852.4	9262	23.26	22.06	0.161
DC-HSDPA	Subtest3	1880	9400	23.12	21.92	0.156
DC-HSDPA	Subtest3	1907.6	9538	22.93	21.73	0.149
DC-HSDPA	Subtest4	1852.4	9262	23.16	21.96	0.157
DC-HSDPA	Subtest4	1880	9400	23.10	21.90	0.155
DC-HSDPA	Subtest4	1907.6	9538	22.81	21.61	0.145

WCDMA Band IV

1. RF Power Output

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1712.4	1312	25.21
Release 99	RMC,12.2kbps	1732.6	1412	24.76
Release 99	RMC,12.2kbps	1752.6	1513	24.61

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSDPA	Subtest1	1712.4	1312	23.85
HSDPA	Subtest1	1732.6	1412	23.66
HSDPA	Subtest1	1752.6	1513	23.48
HSDPA	Subtest2	1712.4	1312	23.43
HSDPA	Subtest2	1732.6	1412	23.21
HSDPA	Subtest2	1752.6	1513	22.99
HSDPA	Subtest3	1712.4	1312	23.30
HSDPA	Subtest3	1732.6	1412	23.12
HSDPA	Subtest3	1752.6	1513	22.97
HSDPA	Subtest4	1712.4	1312	23.18
HSDPA	Subtest4	1732.6	1412	23.11
HSDPA	Subtest4	1752.6	1513	22.95

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSUPA	Subtest1	1712.4	1312	23.81
HSUPA	Subtest1	1732.6	1412	23.54
HSUPA	Subtest1	1752.6	1513	23.34
HSUPA	Subtest2	1712.4	1312	20.25
HSUPA	Subtest2	1732.6	1412	19.92
HSUPA	Subtest2	1752.6	1513	19.80
HSUPA	Subtest3	1712.4	1312	21.06
HSUPA	Subtest3	1732.6	1412	21.06
HSUPA	Subtest3	1752.6	1513	20.87
HSUPA	Subtest4	1712.4	1312	20.35
HSUPA	Subtest4	1732.6	1412	19.77
HSUPA	Subtest4	1752.6	1513	19.41
HSUPA	Subtest5	1712.4	1312	23.73
HSUPA	Subtest5	1732.6	1412	23.53
HSUPA	Subtest5	1752.6	1513	23.38

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSDPA+	QPSK	1712.4	1312	23.78
HSDPA+	QPSK	1732.6	1412	23.09
HSDPA+	QPSK	1752.6	1513	22.95
HSDPA+	16QAM	1712.4	1312	23.58
HSDPA+	16QAM	1732.6	1412	23.00
HSDPA+	16QAM	1752.6	1513	22.93

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest1	1712.4	1312	23.79
DC-HSDPA	Subtest1	1732.6	1412	23.08
DC-HSDPA	Subtest1	1752.6	1513	23.42
DC-HSDPA	Subtest2	1712.4	1312	23.04
DC-HSDPA	Subtest2	1732.6	1412	23.00
DC-HSDPA	Subtest2	1752.6	1513	22.83
DC-HSDPA	Subtest3	1712.4	1312	23.12
DC-HSDPA	Subtest3	1732.6	1412	22.91
DC-HSDPA	Subtest3	1752.6	1513	22.75
DC-HSDPA	Subtest4	1712.4	1312	23.14
DC-HSDPA	Subtest4	1732.6	1412	22.91
DC-HSDPA	Subtest4	1752.6	1513	22.77

2. Occupied Bandwidth

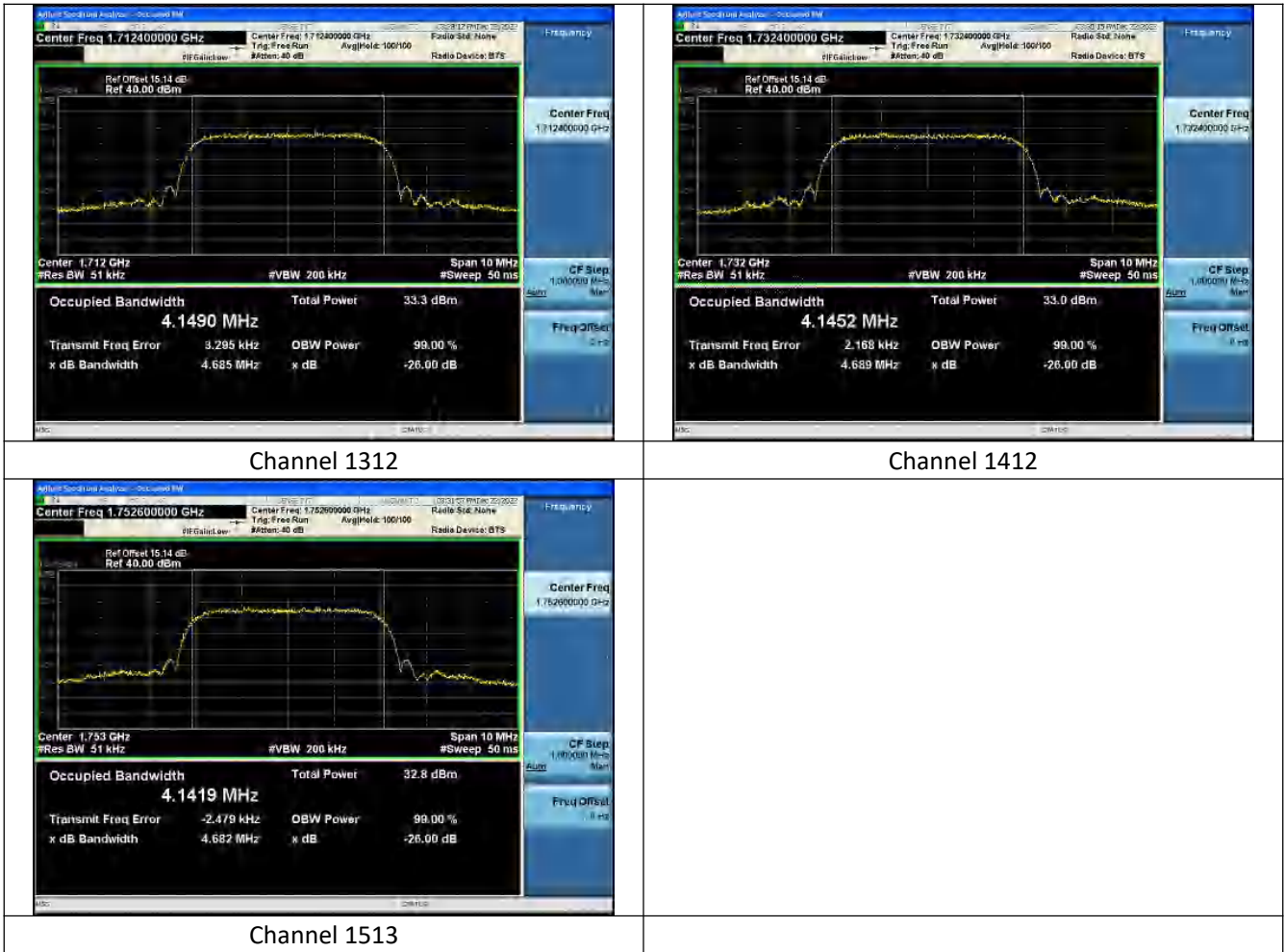
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
Release 99	1712.4	1312	4.15
Release 99	1732.6	1412	4.15
Release 99	1752.6	1513	4.14

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSDPA	1712.4	1312	4.15
HSDPA	1732.6	1412	4.15
HSDPA	1752.6	1513	4.16

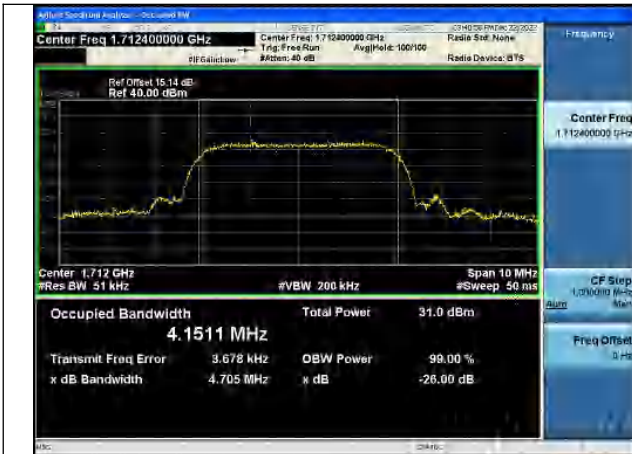
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSUPA	1712.4	1312	4.14
HSUPA	1732.6	1412	4.15
HSUPA	1752.6	1513	4.15

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
HSDPA+	1712.4	1312	4.15
HSDPA+	1732.6	1412	4.16
HSDPA+	1752.6	1513	4.16

Test Mode: Release 99



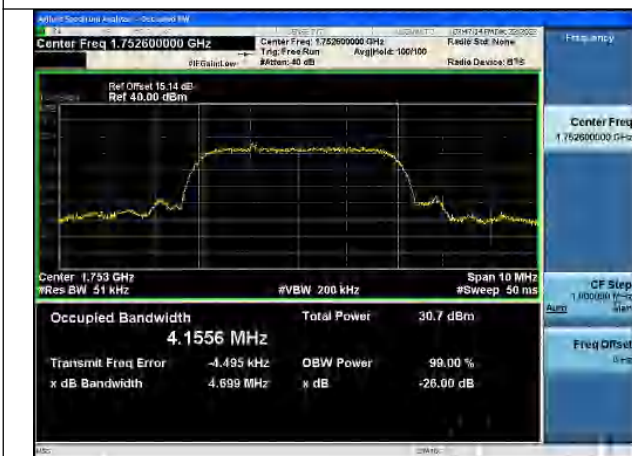
Test Mode: HSDPA



Channel 1312



Channel 1412



Channel 1513

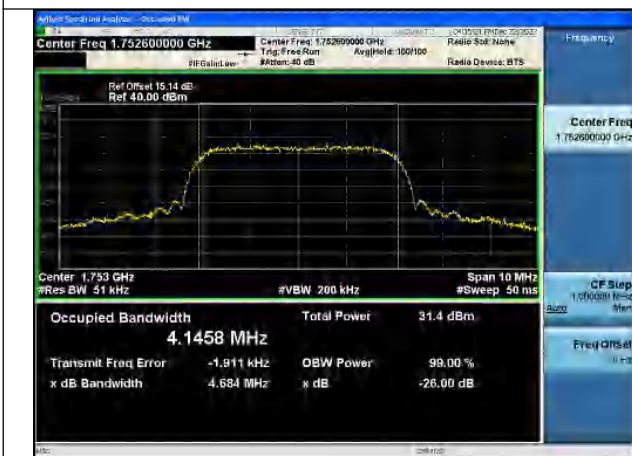
Test Mode: HSUPA



Channel 1312

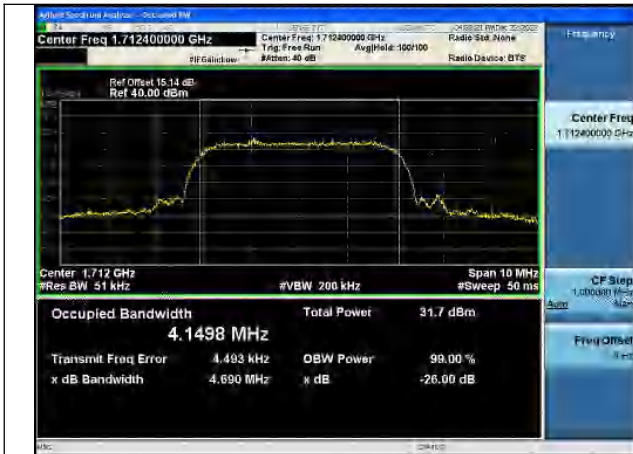


Channel 1412



Channel 1513

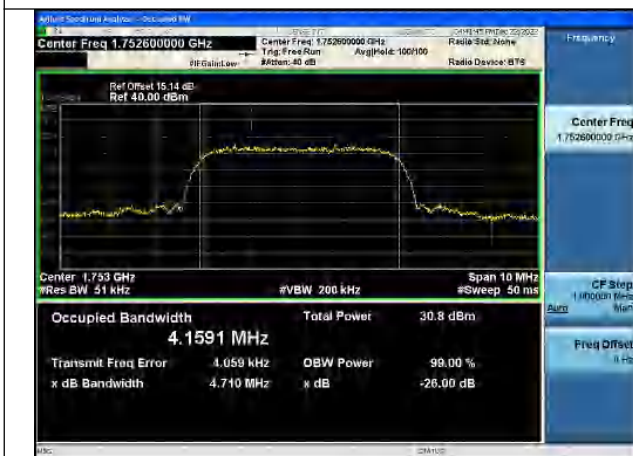
Test Mode: HSDPA+



Channel 1312



Channel 1412



Channel 1513

3. Emission Bandwidth

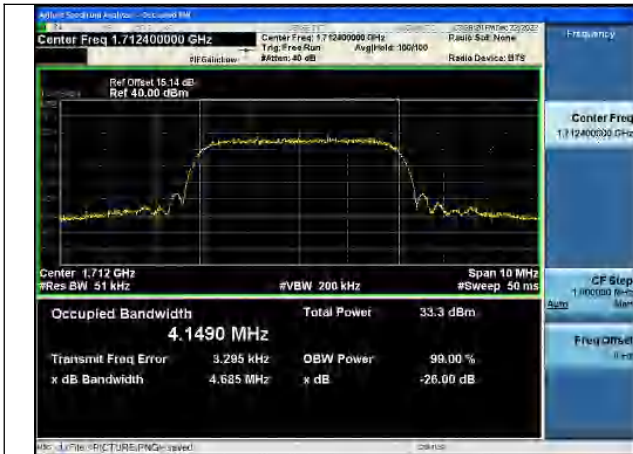
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
Release 99	1712.4	1312	4.68
Release 99	1732.6	1412	4.69
Release 99	1752.6	1513	4.68

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSDPA	1712.4	1312	4.71
HSDPA	1732.6	1412	4.69
HSDPA	1752.6	1513	4.7

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSUPA	1712.4	1312	4.69
HSUPA	1732.6	1412	4.7
HSUPA	1752.6	1513	4.68

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

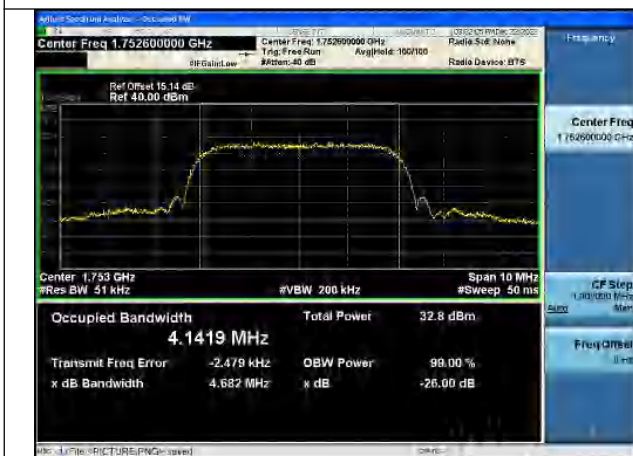
Test Mode: Release 99



Channel 1312



Channel 1412



Channel 1513

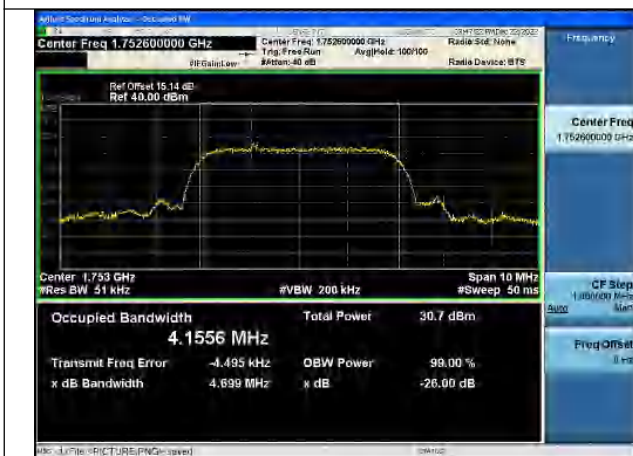
Test Mode: HSDPA



Channel 1312

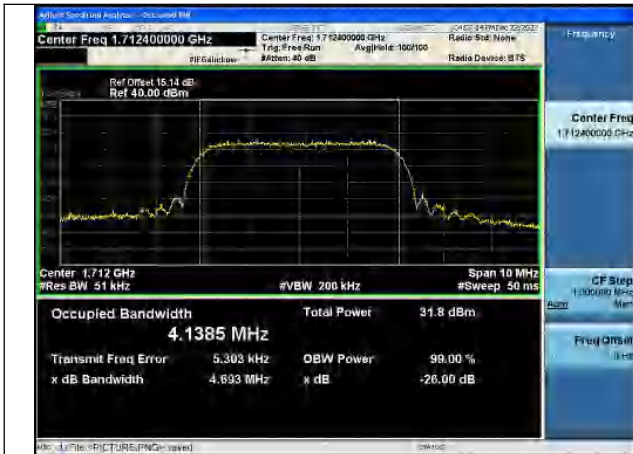


Channel 1412

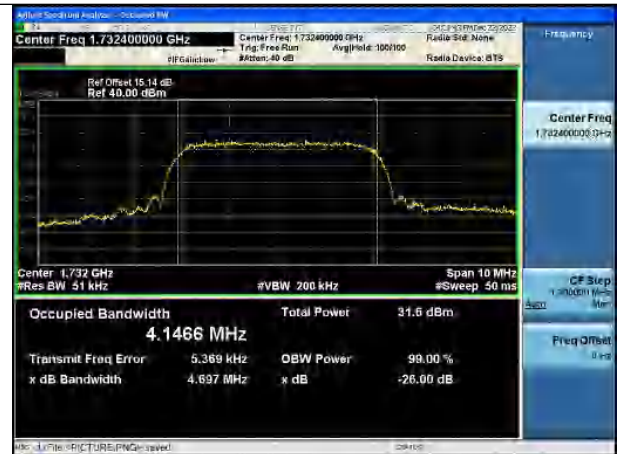


Channel 1513

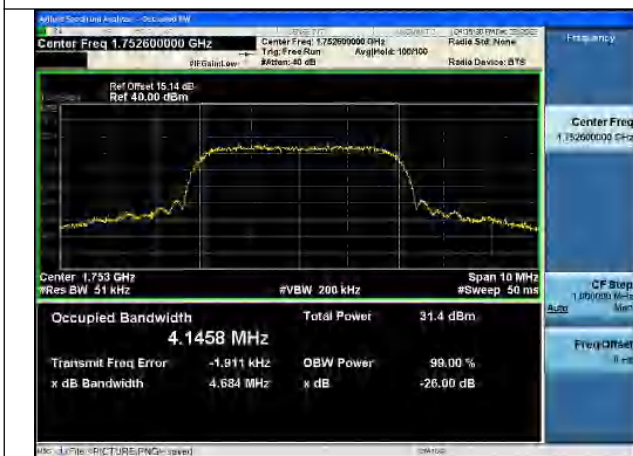
Test Mode: HSUPA



Channel 1312

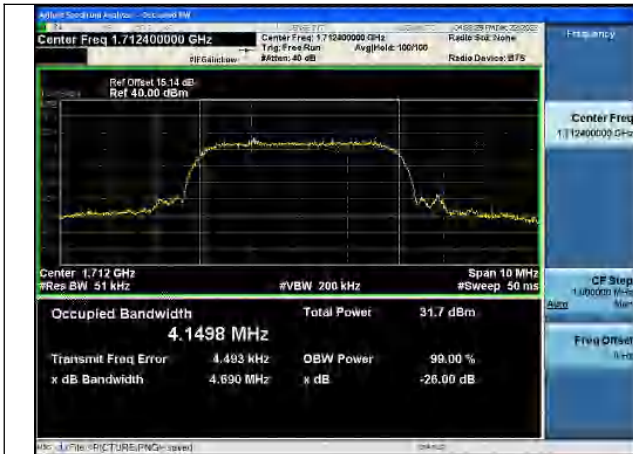


Channel 1412



Channel 1513

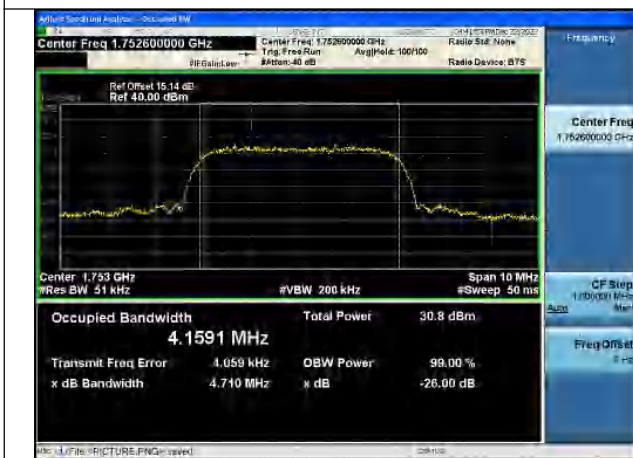
Test Mode: HSDPA+



Channel 1312



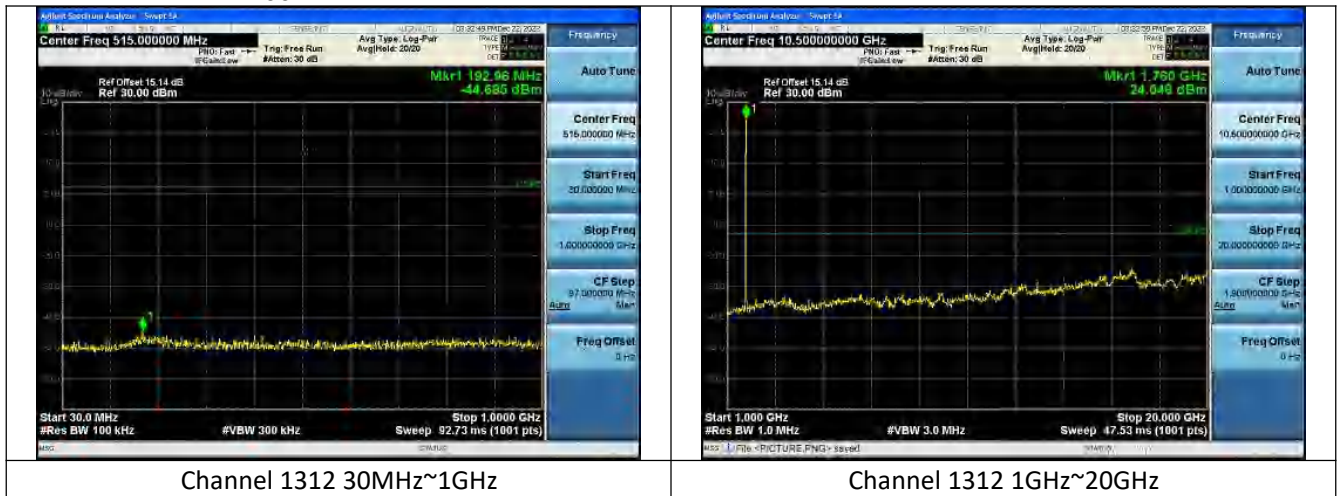
Channel 1412



Channel 1513

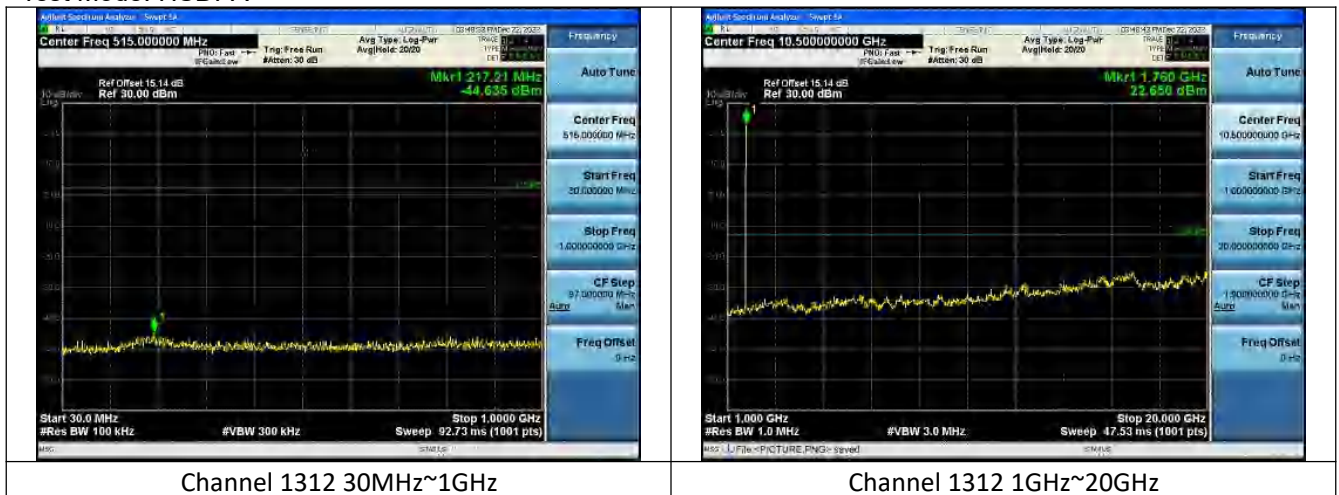
4. Spurious Emissions at antenna terminal

Test Mode: Release 99



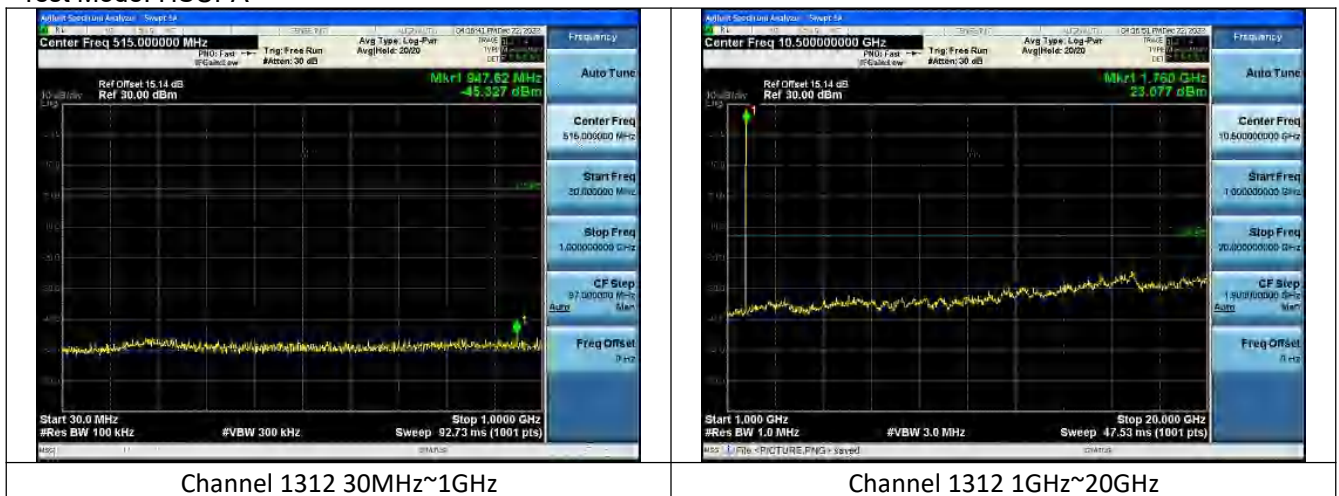
Note: The signal beyond the limit is the signal transmitted by EUT.

Test Mode: HSDPA



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

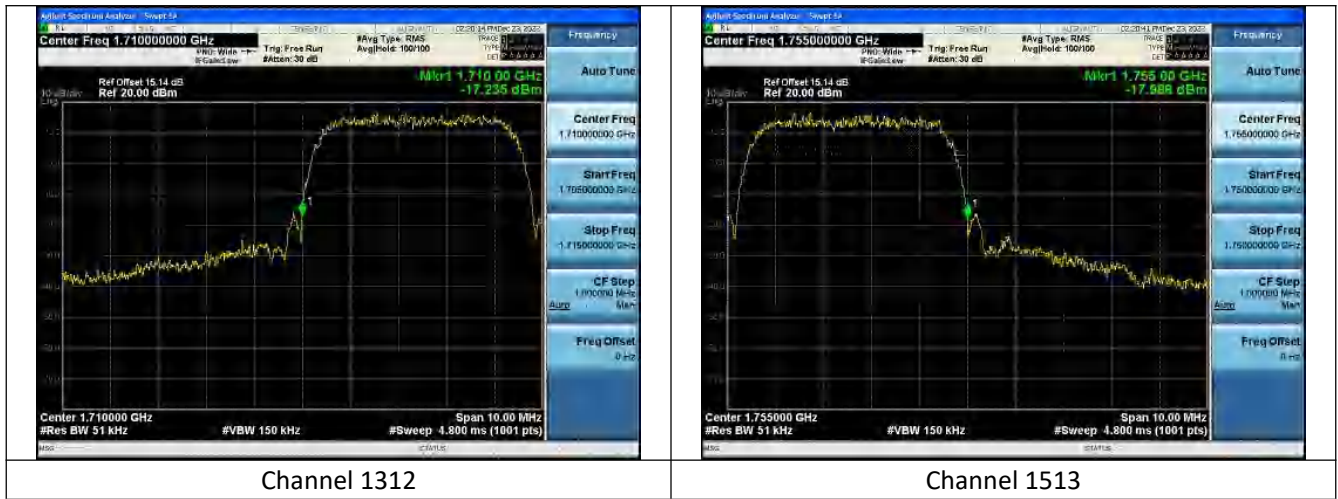
Test Mode: HSUPA



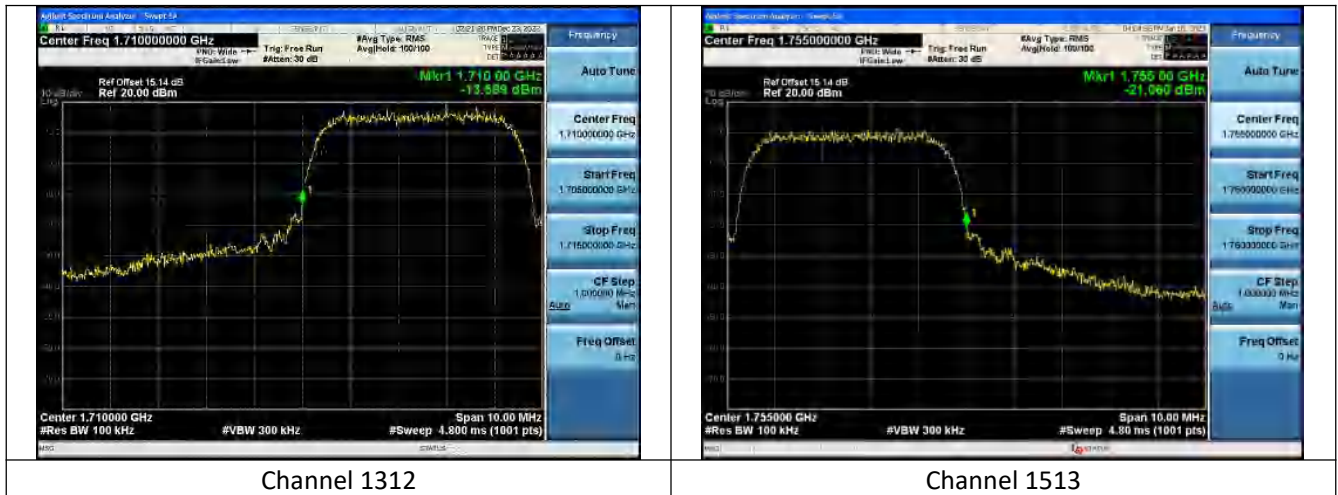
Note: The signal beyond the limit is the signal transmitted by EUT.

5. Band Edges Compliance

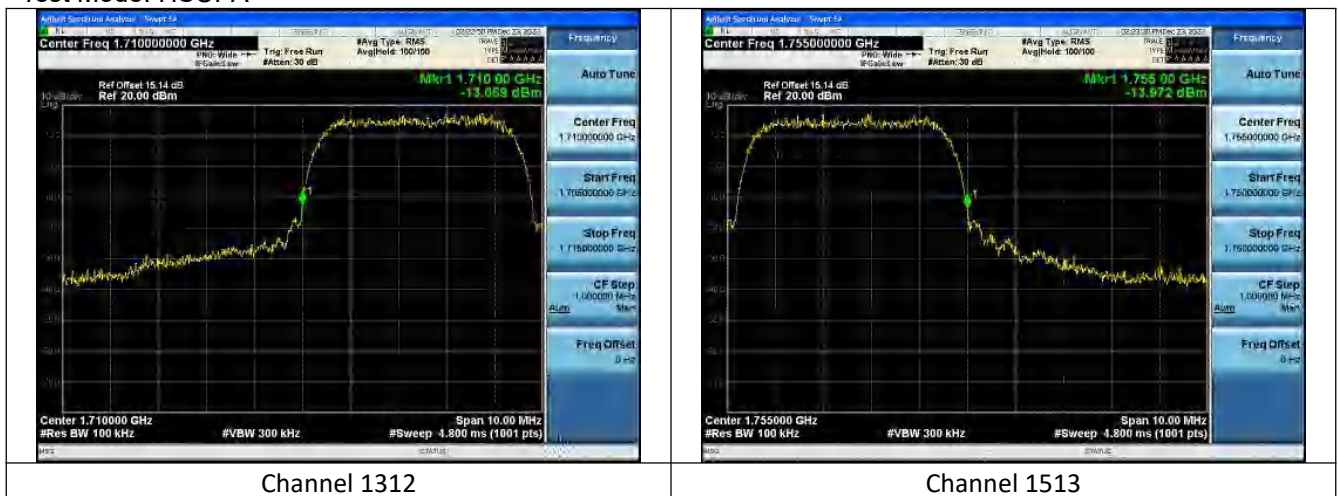
Test Mode: Release 99



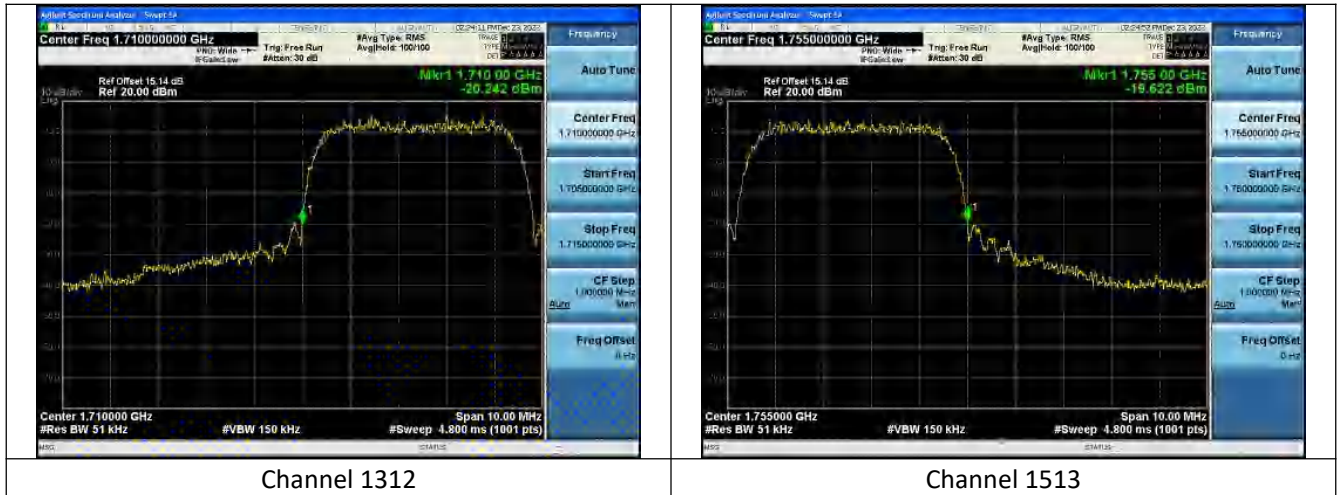
Test Mode: HSDPA



Test Mode: HSUPA



Test Mode: HSDPA+



6. Frequency Stability

Test Mode: Release 99

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 1312	Channel 1412	Channel 1513
Release 99	-10	0.001	0.001	0.001
Release 99	-0	-0.001	0.002	0.001
Release 99	+10	0.001	0.001	0.001
Release 99	+20	0.002	-0.001	-0.001
Release 99	+30	0.001	0.001	0.003
Release 99	+40	0.001	0.001	0.001
Release 99	+50	0.001	0.001	0.001
Release 99	+55	0.001	0.001	0.002
Name	Voltage	Test Result (ppm)@NT		
		Channel 1312	Channel 1412	Channel 1513
Release 99	LV	0.001	0.002	0.001
Release 99	HV	0.001	0.001	0.001

Test Mode: HSDPA

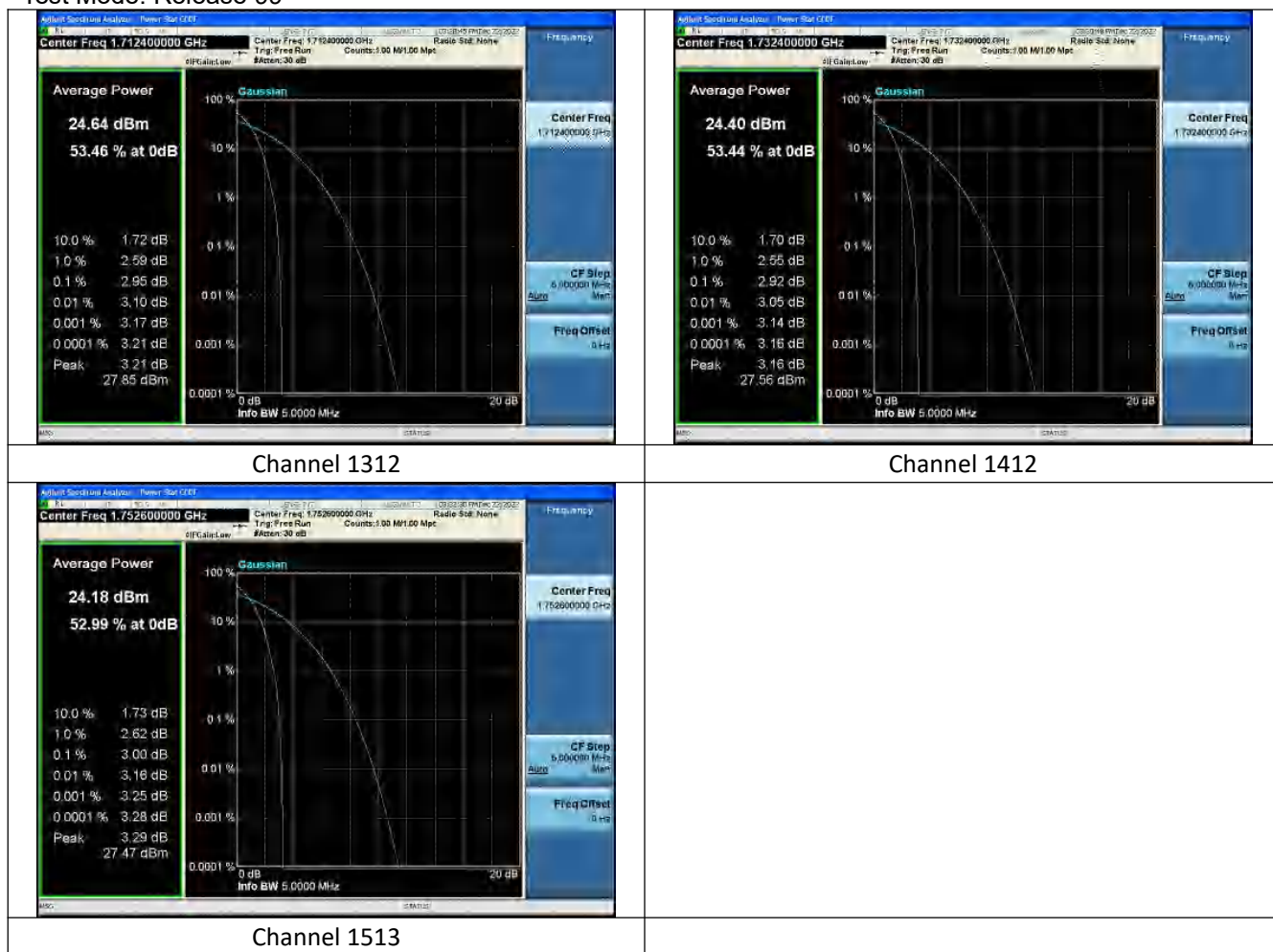
Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 1312	Channel 1412	Channel 1513
Subtest1	-10	0.001	0.002	0.002
Subtest1	-0	0.001	0.001	0.001
Subtest1	+10	0.001	0.001	0.001
Subtest1	+20	0.001	0.001	-0.001
Subtest1	+30	0.002	-0.001	0.001
Subtest1	+40	0.001	0.002	0.001
Subtest1	+50	0.001	0.001	0.001
Release 99	+55	-0.001	0.001	0.001
Name	Voltage	Test Result (ppm)@NT		
		Channel 1312	Channel 1412	Channel 1513
Subtest1	LV	0.001	0.001	0.001
Subtest1	HV	0.001	0.001	0.001

Test Mode: HSUPA

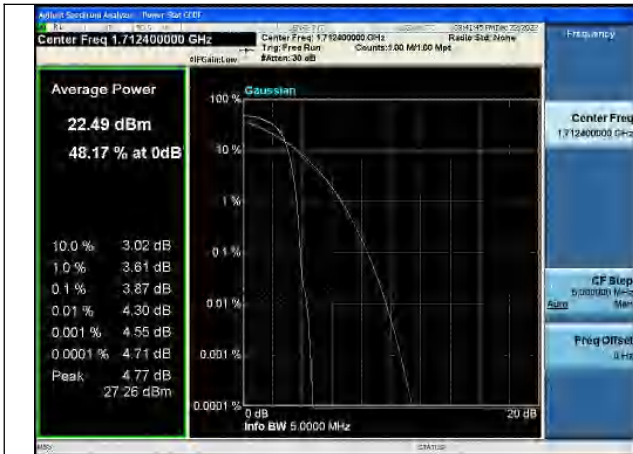
Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 1312	Channel 1412	Channel 1513
Subtest1	-10	0.001	0.002	0.002
Subtest1	-0	0.001	0.001	0.001
Subtest1	+10	0.001	0.001	0.001
Subtest1	+20	0.001	0.001	-0.001
Subtest1	+30	0.002	-0.001	0.001
Subtest1	+40	0.001	0.002	0.001
Subtest1	+50	0.001	0.001	0.001
Release 99	+55	-0.001	0.001	0.001
Name	Voltage	Test Result (ppm)@NT		
		Channel 1312	Channel 1412	Channel 1513
Subtest1	LV	0.001	0.001	0.002
Subtest1	HV	0.001	0.001	0.001

7. Peak-Average Ratio

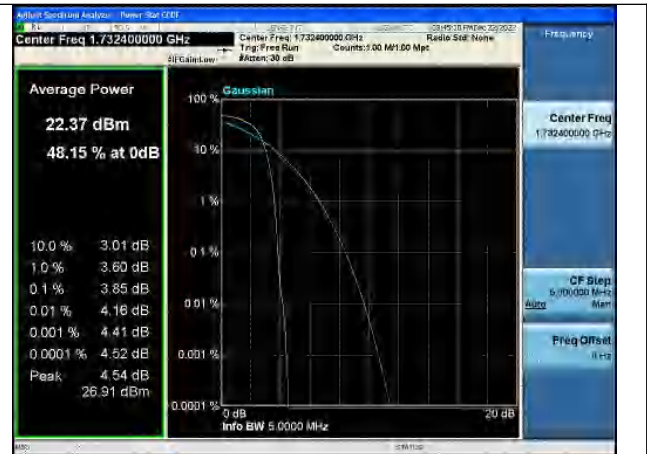
Test Mode: Release 99



Test Mode: HSDPA



Channel 1312

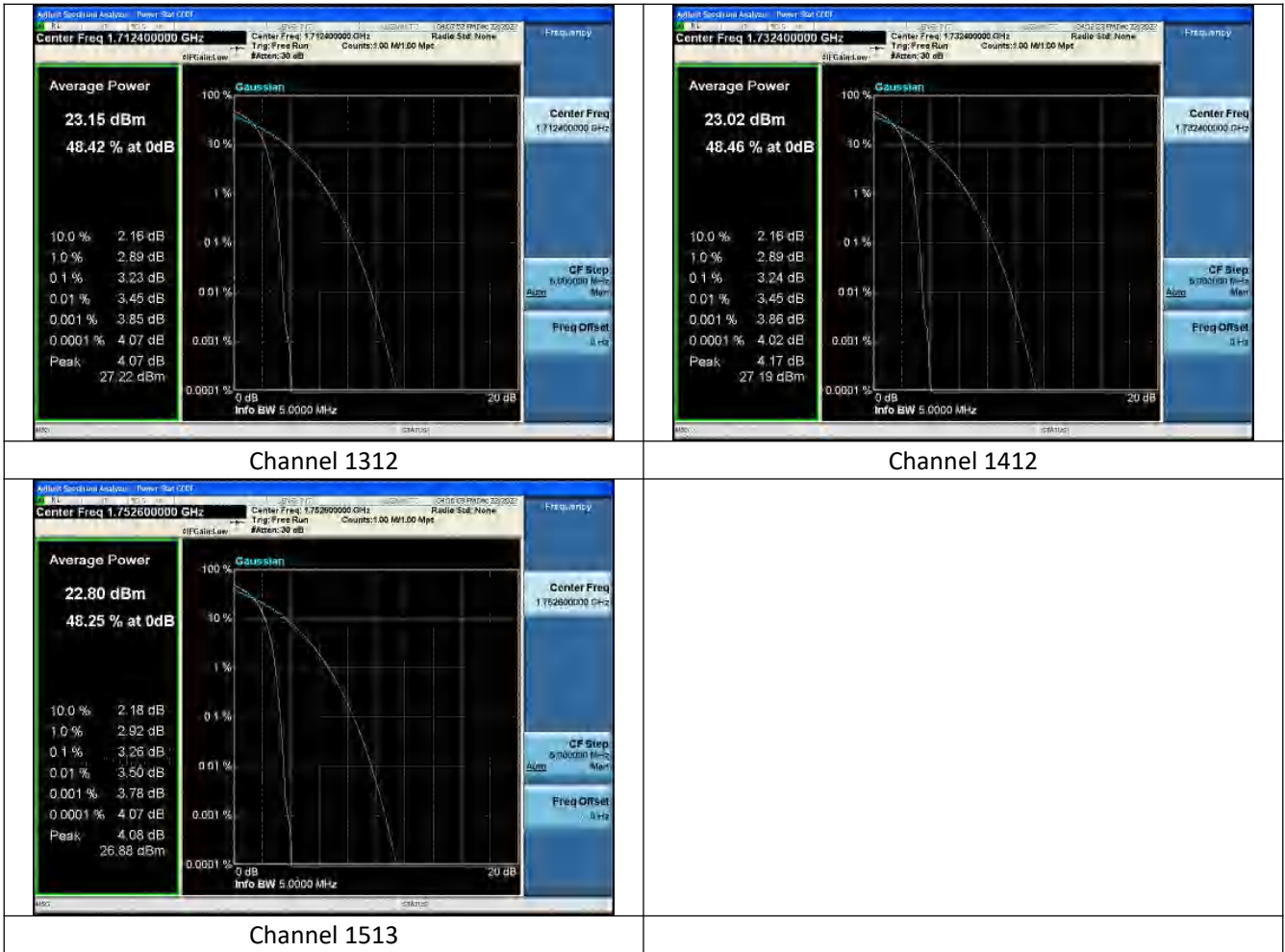


Channel 1412



Channel 1513

Test Mode: HSUPA



8. Effective Radiated Power and Effective Isotropic Radiated Power

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC,12.2kbps	1712.4	1312	25.21	23.61	0.230
Release 99	RMC,12.2kbps	1732.6	1412	24.76	23.16	0.207
Release 99	RMC,12.2kbps	1752.6	1513	24.61	23.01	0.200

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSDPA	Subtest1	1712.4	1312	23.85	22.25	0.168
HSDPA	Subtest1	1732.6	1412	23.66	22.06	0.161
HSDPA	Subtest1	1752.6	1513	23.48	21.88	0.154
HSDPA	Subtest2	1712.4	1312	23.43	21.83	0.152
HSDPA	Subtest2	1732.6	1412	23.21	21.61	0.145
HSDPA	Subtest2	1752.6	1513	22.99	21.39	0.138
HSDPA	Subtest3	1712.4	1312	23.30	21.70	0.148
HSDPA	Subtest3	1732.6	1412	23.12	21.52	0.142
HSDPA	Subtest3	1752.6	1513	22.97	21.37	0.137
HSDPA	Subtest4	1712.4	1312	23.18	21.58	0.144
HSDPA	Subtest4	1732.6	1412	23.11	21.51	0.142
HSDPA	Subtest4	1752.6	1513	22.95	21.35	0.136

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSUPA	Subtest1	1712.4	1312	23.81	22.21	0.166
HSUPA	Subtest1	1732.6	1412	23.54	21.94	0.156
HSUPA	Subtest1	1752.6	1513	23.34	21.74	0.149
HSUPA	Subtest2	1712.4	1312	20.25	18.65	0.073
HSUPA	Subtest2	1732.6	1412	19.92	18.32	0.068
HSUPA	Subtest2	1752.6	1513	19.80	18.20	0.066
HSUPA	Subtest3	1712.4	1312	21.06	19.46	0.088
HSUPA	Subtest3	1732.6	1412	21.06	19.46	0.088
HSUPA	Subtest3	1752.6	1513	20.87	19.27	0.085
HSUPA	Subtest4	1712.4	1312	20.35	18.75	0.075
HSUPA	Subtest4	1732.6	1412	19.77	18.17	0.066
HSUPA	Subtest4	1752.6	1513	19.41	17.81	0.060
HSUPA	Subtest5	1712.4	1312	23.73	22.13	0.163
HSUPA	Subtest5	1732.6	1412	23.53	21.93	0.156
HSUPA	Subtest5	1752.6	1513	23.38	21.78	0.151

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSDPA+	QPSK	1712.4	1312	23.78	22.18	0.165
HSDPA+	QPSK	1732.6	1412	23.09	21.49	0.141
HSDPA+	QPSK	1752.6	1513	22.95	21.35	0.136
HSDPA+	16QAM	1712.4	1312	23.58	21.98	0.158
HSDPA+	16QAM	1732.6	1412	23.00	21.40	0.138
HSDPA+	16QAM	1752.6	1513	22.93	21.33	0.136

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
DC-HSDPA	Subtest1	1712.4	1312	23.79	22.19	0.166
DC-HSDPA	Subtest1	1732.6	1412	23.08	21.48	0.141
DC-HSDPA	Subtest1	1752.6	1513	23.42	21.82	0.152
DC-HSDPA	Subtest2	1712.4	1312	23.04	21.44	0.139
DC-HSDPA	Subtest2	1732.6	1412	23.00	21.40	0.138
DC-HSDPA	Subtest2	1752.6	1513	22.83	21.23	0.133
DC-HSDPA	Subtest3	1712.4	1312	23.12	21.52	0.142
DC-HSDPA	Subtest3	1732.6	1412	22.91	21.31	0.135
DC-HSDPA	Subtest3	1752.6	1513	22.75	21.15	0.130
DC-HSDPA	Subtest4	1712.4	1312	23.14	21.54	0.143
DC-HSDPA	Subtest4	1732.6	1412	22.91	21.31	0.135
DC-HSDPA	Subtest4	1752.6	1513	22.77	21.17	0.131

WCDMA Band V

1. RF Power Output

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC, 12.2kbps	826.4	4132	25.72
Release 99	RMC, 12.2kbps	836.6	4183	25.67
Release 99	RMC, 12.2kbps	846.6	4233	25.59

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSDPA	Subtest1	826.4	4132	23.70
HSDPA	Subtest1	836.6	4183	23.65
HSDPA	Subtest1	846.6	4233	23.57
HSDPA	Subtest2	826.4	4132	23.25
HSDPA	Subtest2	836.6	4183	23.25
HSDPA	Subtest2	846.6	4233	23.17
HSDPA	Subtest3	826.4	4132	23.15
HSDPA	Subtest3	836.6	4183	23.14
HSDPA	Subtest3	846.6	4233	23.07
HSDPA	Subtest4	826.4	4132	23.16
HSDPA	Subtest4	836.6	4183	23.14
HSDPA	Subtest4	846.6	4233	23.06

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSUPA	Subtest1	826.4	4132	23.66
HSUPA	Subtest1	836.6	4183	23.65
HSUPA	Subtest1	846.6	4233	23.53
HSUPA	Subtest2	826.4	4132	20.19
HSUPA	Subtest2	836.6	4183	20.16
HSUPA	Subtest2	846.6	4233	20.07
HSUPA	Subtest3	826.4	4132	21.17
HSUPA	Subtest3	836.6	4183	21.14
HSUPA	Subtest3	846.6	4233	21.07
HSUPA	Subtest4	826.4	4132	19.83
HSUPA	Subtest4	836.6	4183	19.99
HSUPA	Subtest4	846.6	4233	19.91
HSUPA	Subtest5	826.4	4132	23.67
HSUPA	Subtest5	836.6	4183	23.65
HSUPA	Subtest5	846.6	4233	23.56

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
HSDPA+	QPSK	826.4	4132	23.13
HSDPA+	QPSK	836.6	4183	23.09
HSDPA+	QPSK	846.6	4233	23.04
HSDPA+	16QAM	826.4	4132	23.15
HSDPA+	16QAM	836.6	4183	23.10
HSDPA+	16QAM	846.6	4233	22.71

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest1	826.4	4132	23.66
DC-HSDPA	Subtest1	836.6	4183	23.11
DC-HSDPA	Subtest1	846.6	4233	23.52
DC-HSDPA	Subtest2	826.4	4132	23.20
DC-HSDPA	Subtest2	836.6	4183	23.09
DC-HSDPA	Subtest2	846.6	4233	23.09
DC-HSDPA	Subtest3	826.4	4132	23.10
DC-HSDPA	Subtest3	836.6	4183	23.11
DC-HSDPA	Subtest3	846.6	4233	22.99
DC-HSDPA	Subtest4	826.4	4132	23.13
DC-HSDPA	Subtest4	836.6	4183	23.11
DC-HSDPA	Subtest4	846.6	4233	23.01

2. Occupied Bandwidth

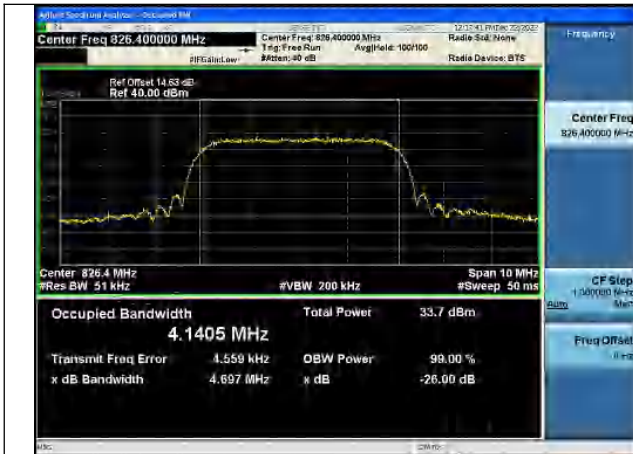
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
Release 99	826.4	4132	4.14
Release 99	836.6	4183	4.14
Release 99	846.6	4233	4.13

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

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

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

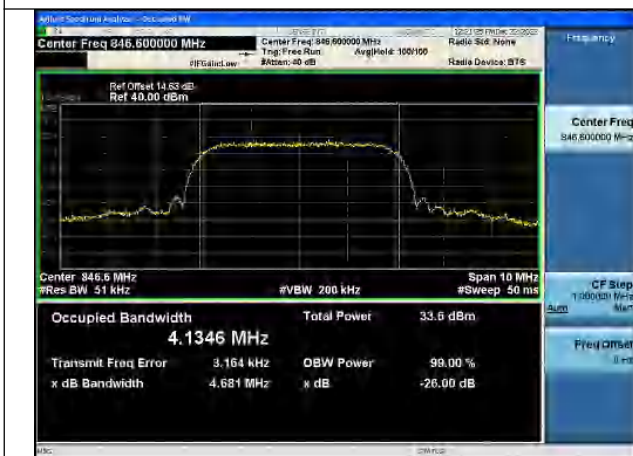
Test Mode: Release 99



Channel 4132

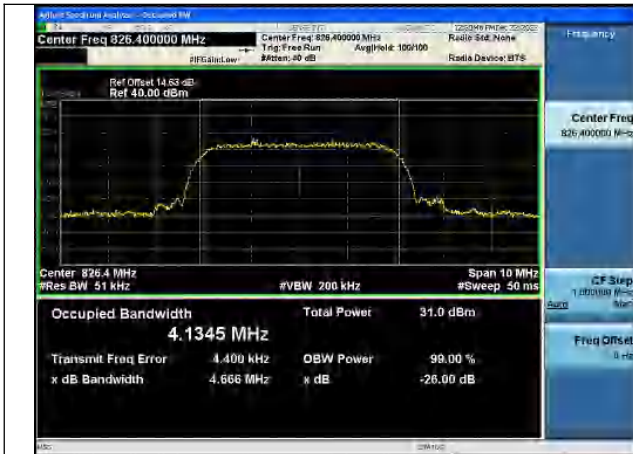


Channel 4183



Channel 4233

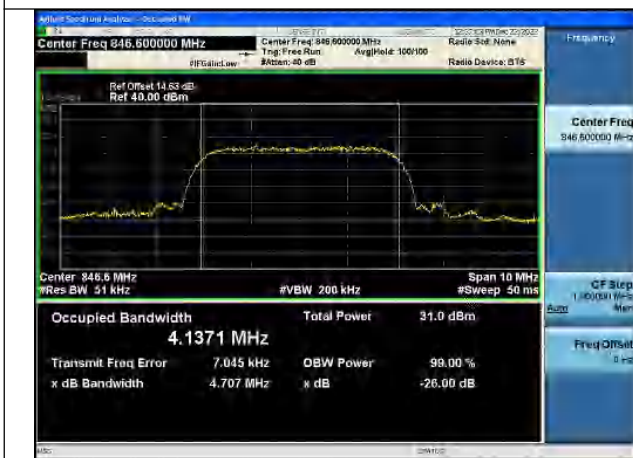
Test Mode: HSDPA



Channel 4132



Channel 4183



Channel 4233

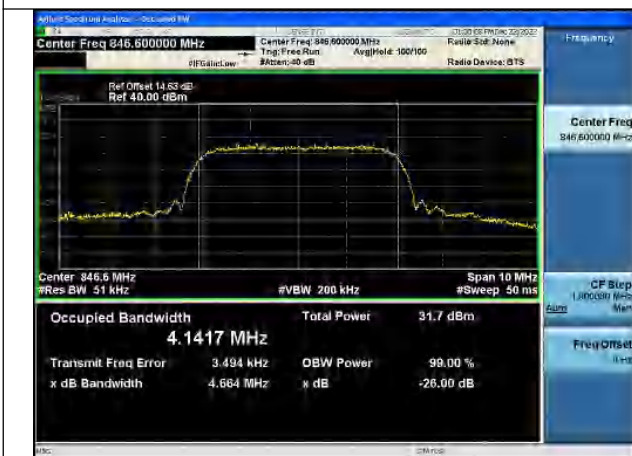
Test Mode: HSUPA



Channel 4132



Channel 4183



Channel 4233

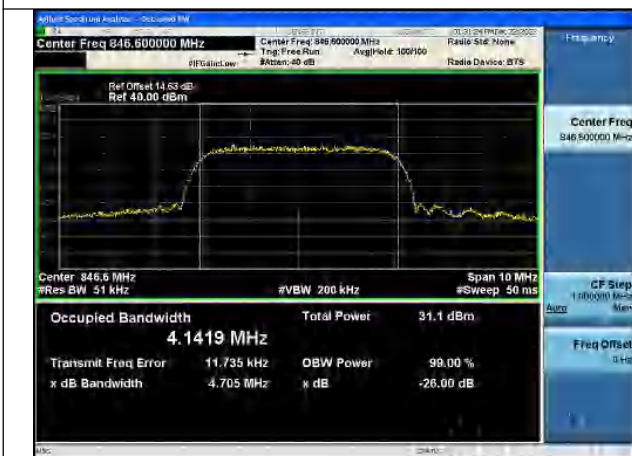
Test Mode: HSDPA+



Channel 4132



Channel 4183



Channel 4233

3. Emission Bandwidth

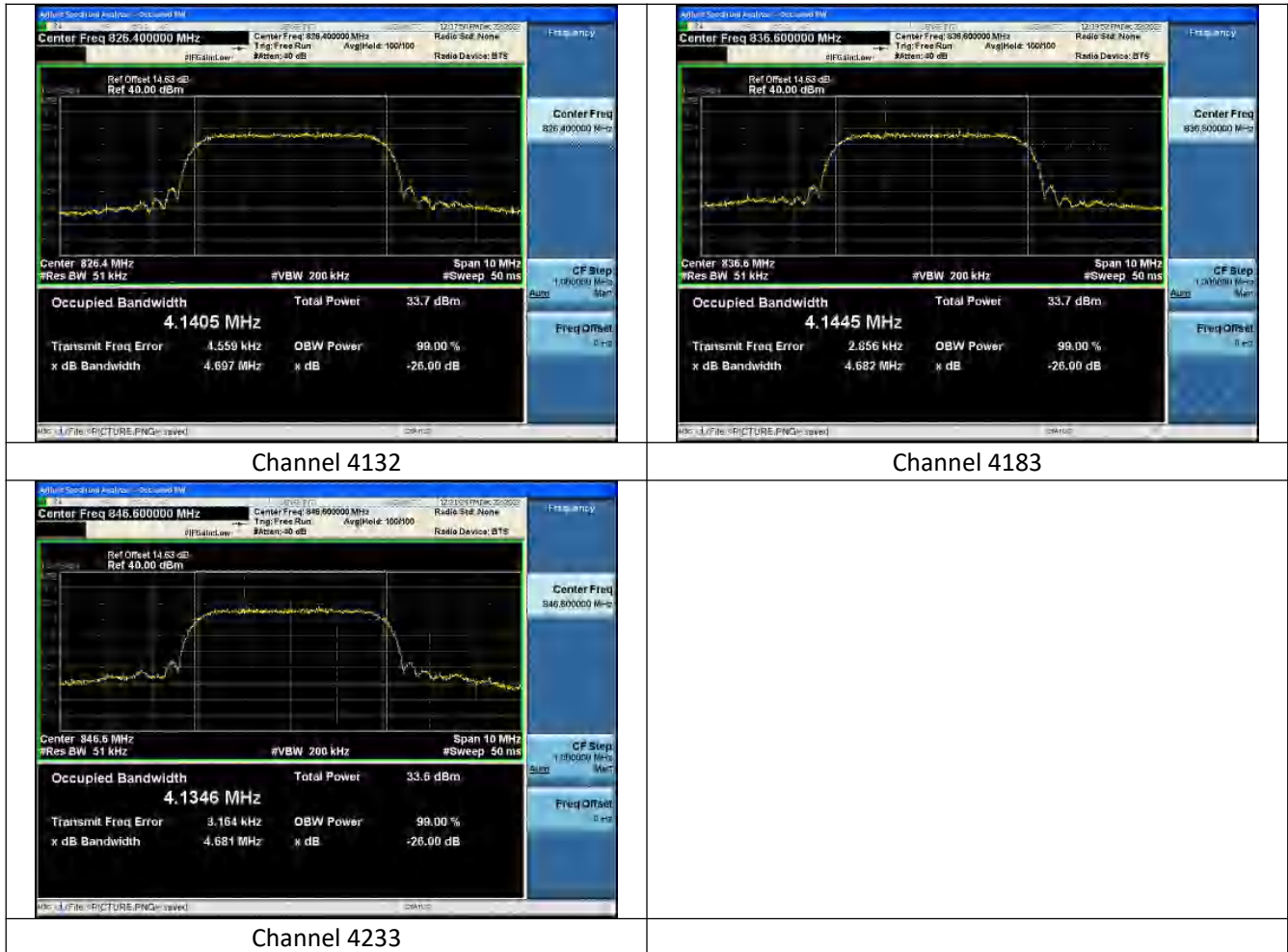
Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
Release 99	826.4	4132	4.7
Release 99	836.6	4183	4.68
Release 99	846.6	4233	4.68

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSDPA	826.4	4132	4.67
HSDPA	836.6	4183	4.69
HSDPA	846.6	4233	4.71

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSUPA	826.4	4132	4.69
HSUPA	836.6	4183	4.7
HSUPA	846.6	4233	4.66

Mode	Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
HSDPA+	826.4	4132	4.69
HSDPA+	836.6	4183	4.71
HSDPA+	846.6	4233	4.71

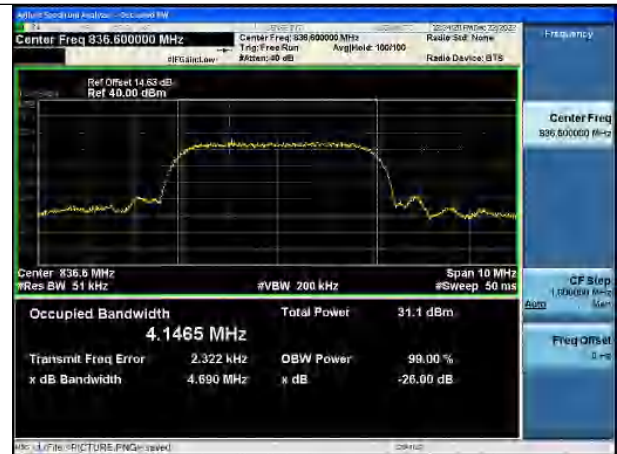
Test Mode: Release 99



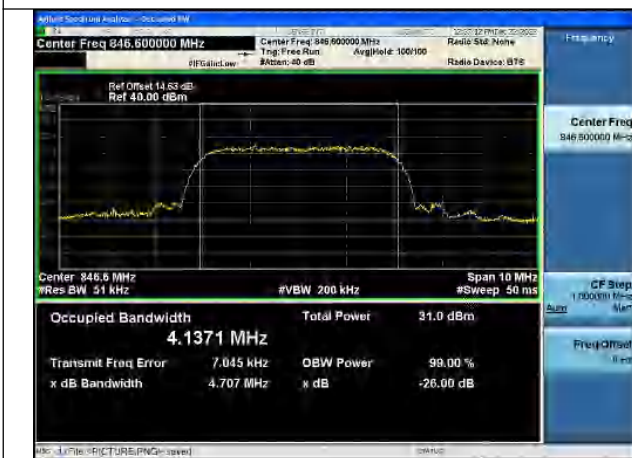
Test Mode: HSDPA



Channel 4132

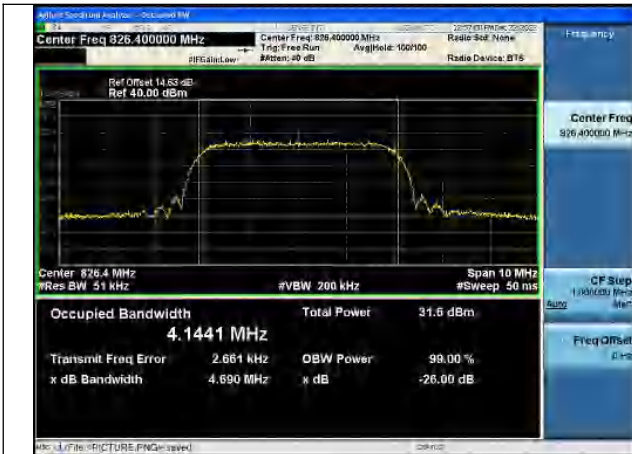


Channel 4183

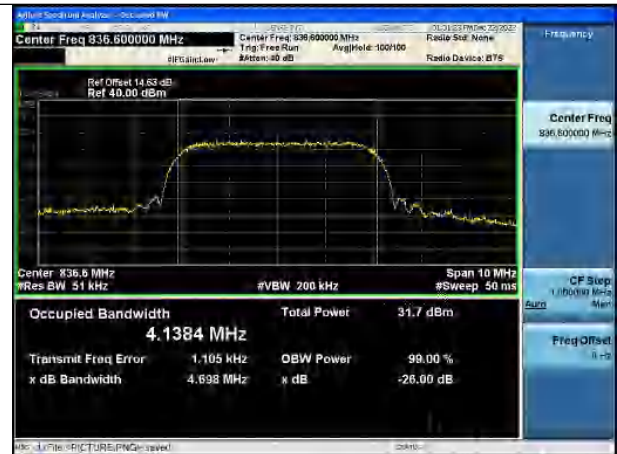


Channel 4233

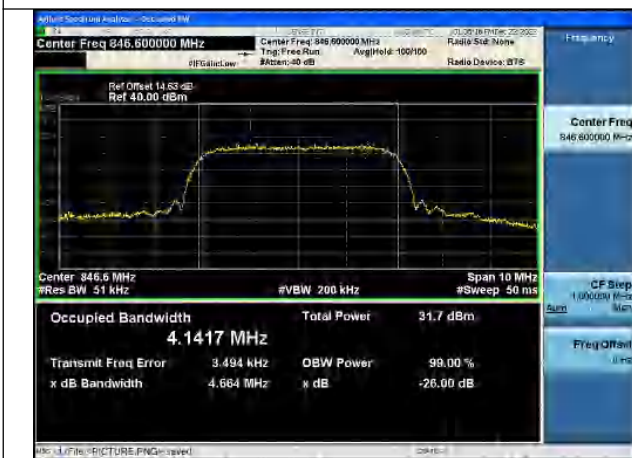
Test Mode: HSUPA



Channel 4132

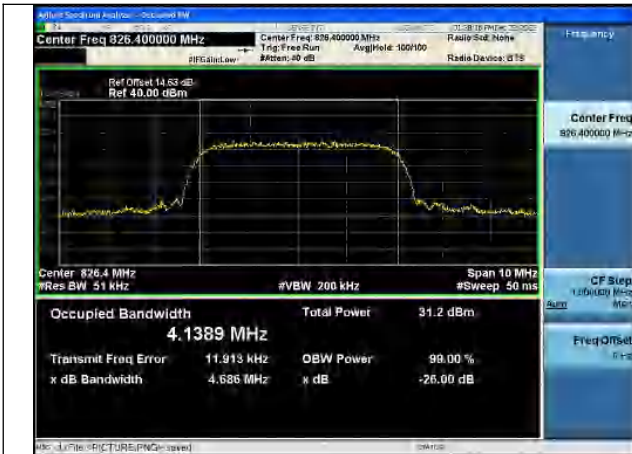


Channel 4183



Channel 4233

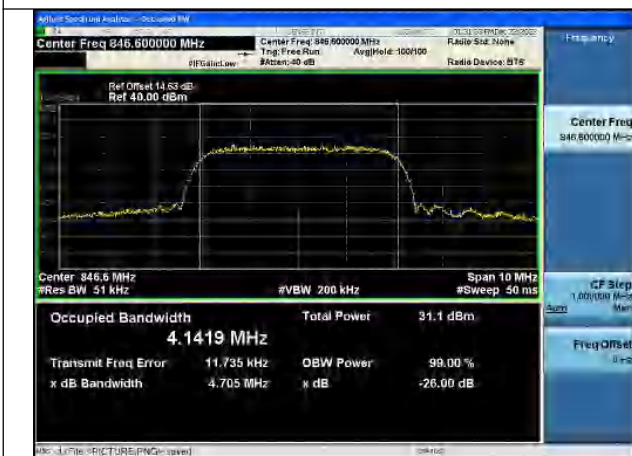
Test Mode: HSDPA+



Channel 4132



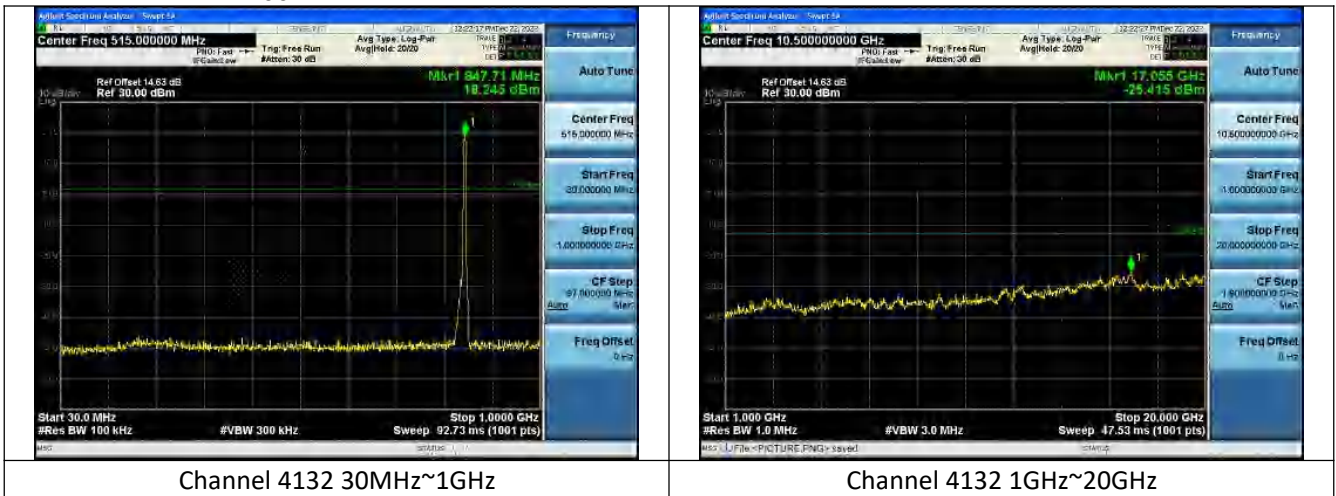
Channel 4183



Channel 4233

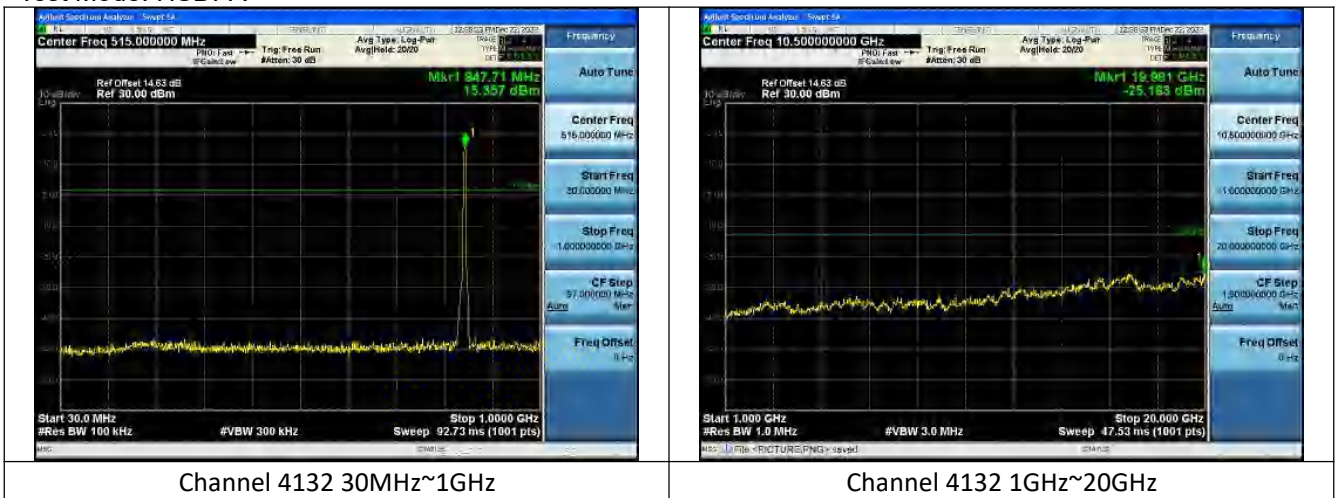
4. Spurious Emissions at antenna terminal

Test Mode: Release 99



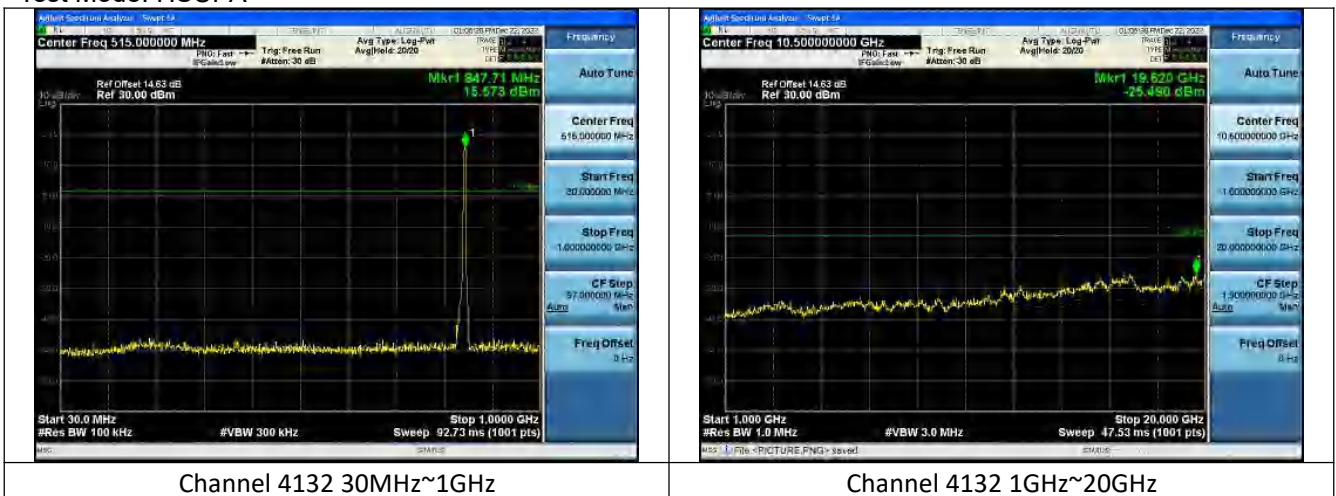
Note: The signal beyond the limit is the signal transmitted by EUT.

Test Mode: HSDPA



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

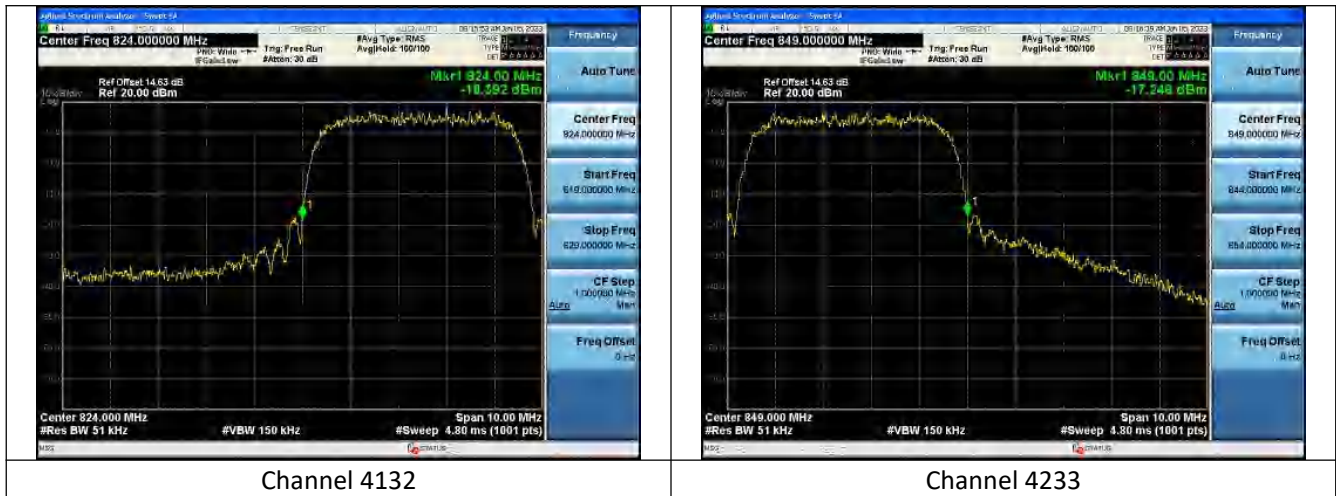
Test Mode: HSUPA



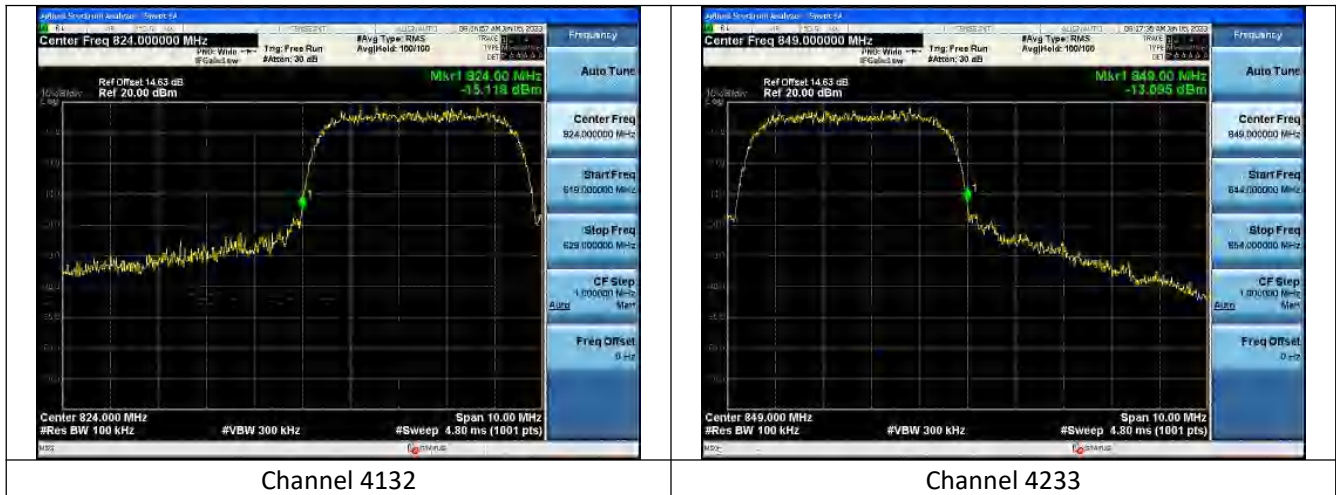
Note: The signal beyond the limit is the signal transmitted by EUT.

5. Band Edges Compliance

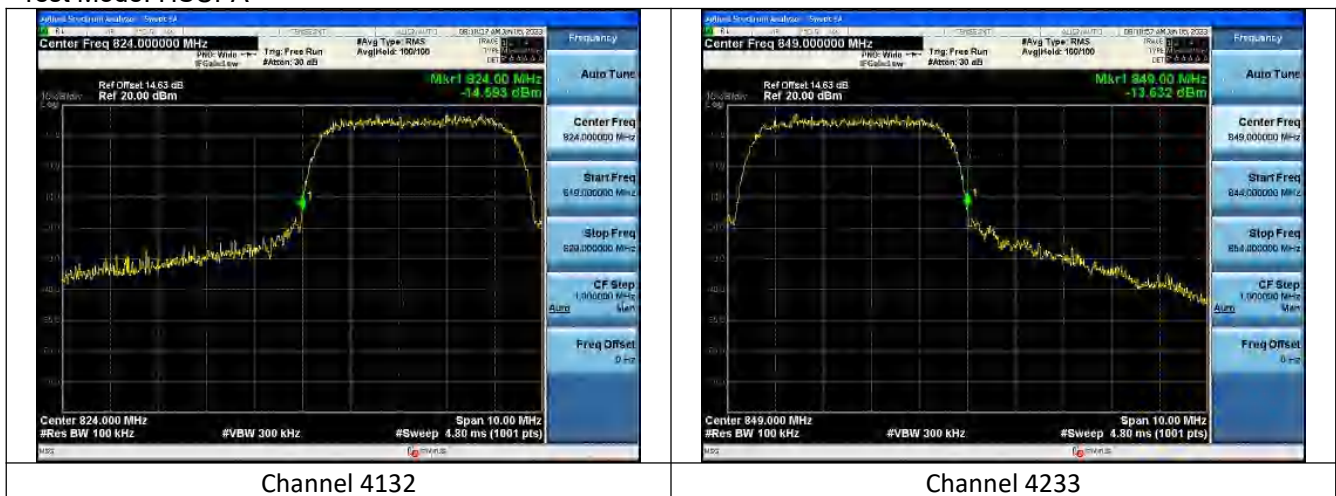
Test Mode: Release 99



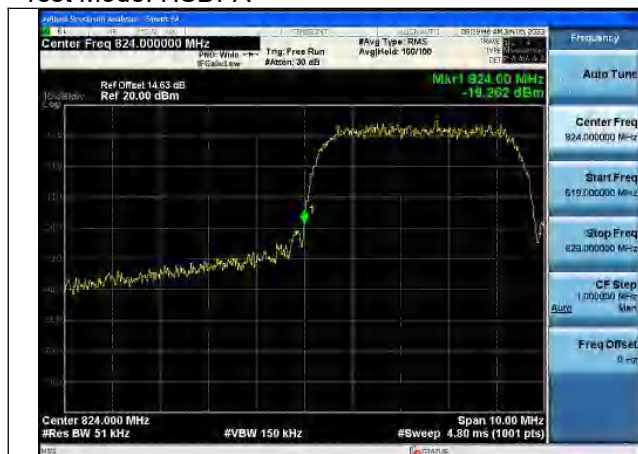
Test Mode: HSDPA



Test Mode: HSUPA



Test Mode: HSDPA+



Channel 4132



Channel 4233

6. Frequency Stability

Test Mode: Release 99

Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 4132	Channel 4183	Channel 4233
Release 99	-10	0.001	0.001	0.001
Release 99	-0	0.001	0.001	0.001
Release 99	+10	0.001	0.001	0.001
Release 99	+20	0.001	0.001	0.001
Release 99	+30	0.001	0.001	0.001
Release 99	+40	0.001	0.001	0.001
Release 99	+50	0.001	0.001	0.001
Release 99	+55	0.001	0.001	0.001
Name	Voltage	Test Result (ppm)@NT		
		Channel 4132	Channel 4183	Channel 4233
Release 99	LV	0.001	0.001	0.001
Release 99	HV	0.001	0.001	0.001

Test Mode: HSDPA

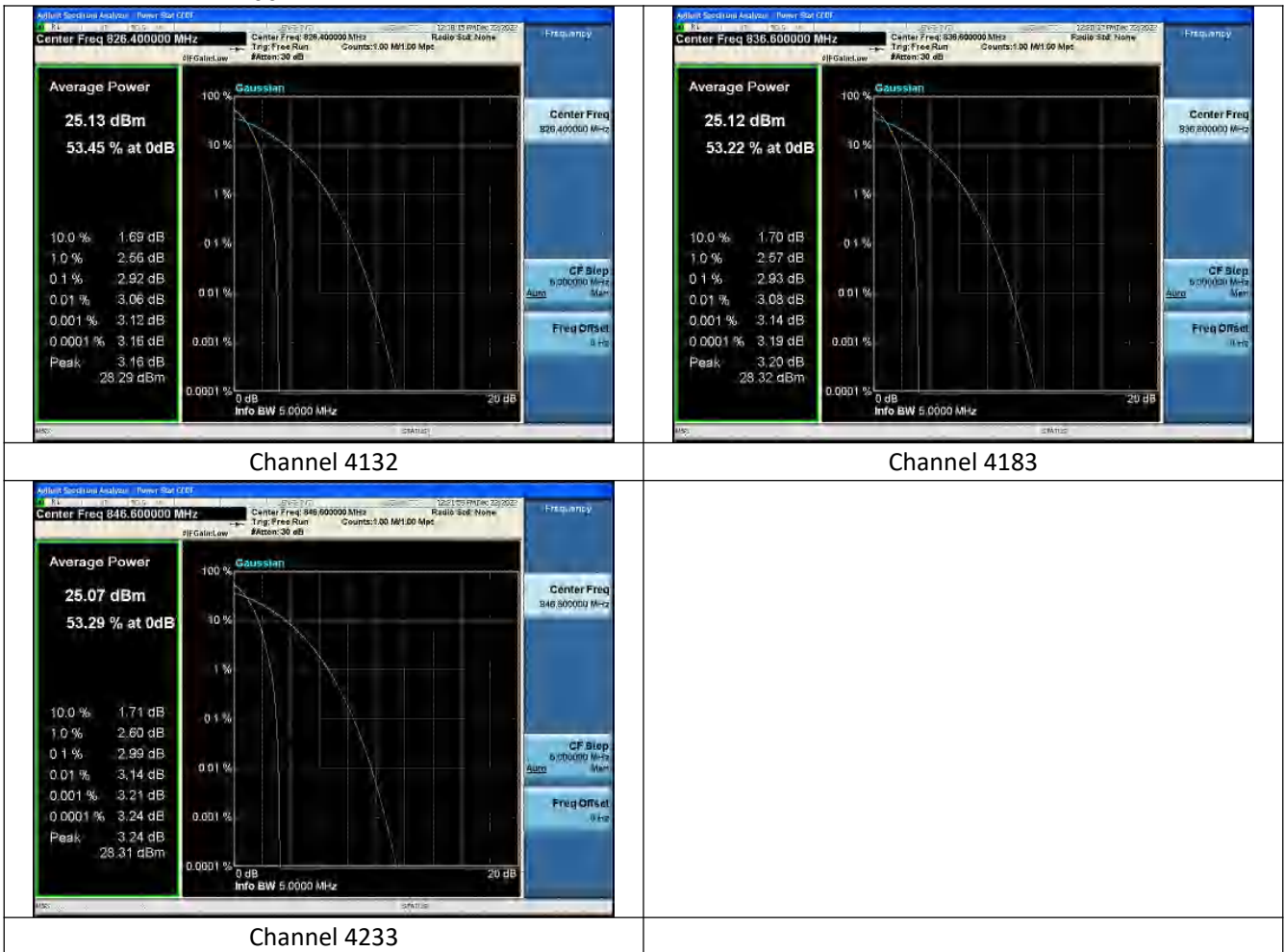
Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 4132	Channel 4183	Channel 4233
Subtest1	-10	0.001	0.001	0.002
Subtest1	-0	0.001	0.001	0.001
Subtest1	+10	0.001	0.001	0.001
Subtest1	+20	0.001	0.001	0.001
Subtest1	+30	0.001	0.001	0.001
Subtest1	+40	0.001	0.002	0.001
Subtest1	+50	0.001	0.001	0.001
Release 99	+55	0.002	0.001	0.001
Name	Voltage	Test Result (ppm)@NT		
		Channel 4132	Channel 4183	Channel 4233
Subtest1	LV	0.002	0.001	0.001
Subtest1	HV	0.001	0.001	0.001

Test Mode: HSUPA

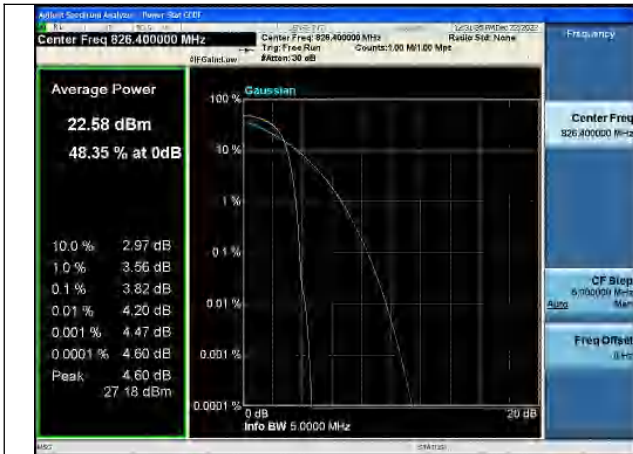
Name	Temperature(°C)	Test Result (ppm)@NV		
		Channel 4132	Channel 4183	Channel 4233
Subtest1	-10	0.001	0.001	0.001
Subtest1	-0	0.001	0.001	0.001
Subtest1	+10	0.001	0.001	0.001
Subtest1	+20	0.002	0.001	0.001
Subtest1	+30	0.001	0.001	0.001
Subtest1	+40	0.001	0.001	0.001
Subtest1	+50	0.001	0.002	0.001
Release 99	+55	0.002	0.001	0.001
Name	Voltage	Test Result (ppm)@NT		
		Channel 4132	Channel 4183	Channel 4233
Subtest1	LV	0.001	0.001	0.001
Subtest1	HV	0.001	0.001	0.001

7. Peak-Average Ratio

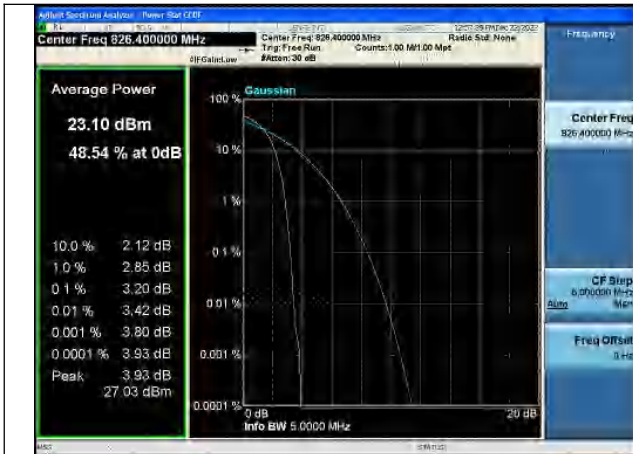
Test Mode: Release 99



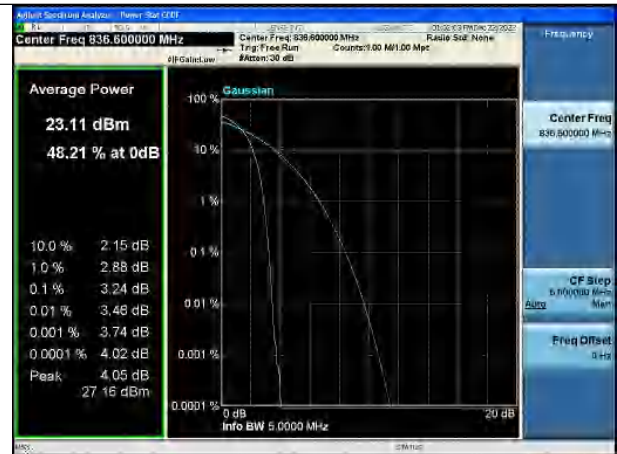
Test Mode: HSDPA



Test Mode: HSPA



Channel 4132



Channel 4183



Channel 4233

8. Effective Radiated Power and Effective Isotropic Radiated Power

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC,12.2kbps	826.4	4132	25.72	18.77	0.075
Release 99	RMC,12.2kbps	836.6	4183	25.67	18.72	0.074
Release 99	RMC,12.2kbps	846.6	4233	25.59	18.64	0.073

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSDPA	Subtest1	826.4	4132	23.70	16.75	0.047
HSDPA	Subtest1	836.6	4183	23.65	16.70	0.047
HSDPA	Subtest1	846.6	4233	23.57	16.62	0.046
HSDPA	Subtest2	826.4	4132	23.25	16.30	0.043
HSDPA	Subtest2	836.6	4183	23.25	16.30	0.043
HSDPA	Subtest2	846.6	4233	23.17	16.22	0.042
HSDPA	Subtest3	826.4	4132	23.15	16.20	0.042
HSDPA	Subtest3	836.6	4183	23.14	16.19	0.042
HSDPA	Subtest3	846.6	4233	23.07	16.12	0.041
HSDPA	Subtest4	826.4	4132	23.16	16.21	0.042
HSDPA	Subtest4	836.6	4183	23.14	16.19	0.042
HSDPA	Subtest4	846.6	4233	23.06	16.11	0.041

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSUPA	Subtest1	826.4	4132	23.66	16.71	0.047
HSUPA	Subtest1	836.6	4183	23.65	16.70	0.047
HSUPA	Subtest1	846.6	4233	23.53	16.58	0.045
HSUPA	Subtest2	826.4	4132	20.19	13.24	0.021
HSUPA	Subtest2	836.6	4183	20.16	13.21	0.021
HSUPA	Subtest2	846.6	4233	20.07	13.12	0.021
HSUPA	Subtest3	826.4	4132	21.17	14.22	0.026
HSUPA	Subtest3	836.6	4183	21.14	14.19	0.026
HSUPA	Subtest3	846.6	4233	21.07	14.12	0.026
HSUPA	Subtest4	826.4	4132	19.83	12.88	0.019
HSUPA	Subtest4	836.6	4183	19.99	13.04	0.020
HSUPA	Subtest4	846.6	4233	19.91	12.96	0.020
HSUPA	Subtest5	826.4	4132	23.67	16.72	0.047
HSUPA	Subtest5	836.6	4183	23.65	16.70	0.047
HSUPA	Subtest5	846.6	4233	23.56	16.61	0.046

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSDPA+	QPSK	826.4	4132	23.13	16.18	0.041
HSDPA+	QPSK	836.6	4183	23.09	23.09	0.204
HSDPA+	QPSK	846.6	4233	23.04	16.09	0.041
HSDPA+	16QAM	826.4	4132	23.15	16.20	0.042
HSDPA+	16QAM	836.6	4183	23.10	16.15	0.041
HSDPA+	16QAM	846.6	4233	22.71	15.76	0.038

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
DC-HSDPA	Subtest1	826.4	4132	23.66	16.71	0.047
DC-HSDPA	Subtest1	836.6	4183	23.11	16.16	0.041
DC-HSDPA	Subtest1	846.6	4233	23.52	16.57	0.045
DC-HSDPA	Subtest2	826.4	4132	23.20	16.25	0.042
DC-HSDPA	Subtest2	836.6	4183	23.09	16.14	0.041
DC-HSDPA	Subtest2	846.6	4233	23.09	16.14	0.041
DC-HSDPA	Subtest3	826.4	4132	23.10	16.15	0.041
DC-HSDPA	Subtest3	836.6	4183	23.11	16.16	0.041
DC-HSDPA	Subtest3	846.6	4233	22.99	16.04	0.040
DC-HSDPA	Subtest4	826.4	4132	23.13	16.18	0.041
DC-HSDPA	Subtest4	836.6	4183	23.11	16.16	0.041
DC-HSDPA	Subtest4	846.6	4233	23.01	16.06	0.040

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.

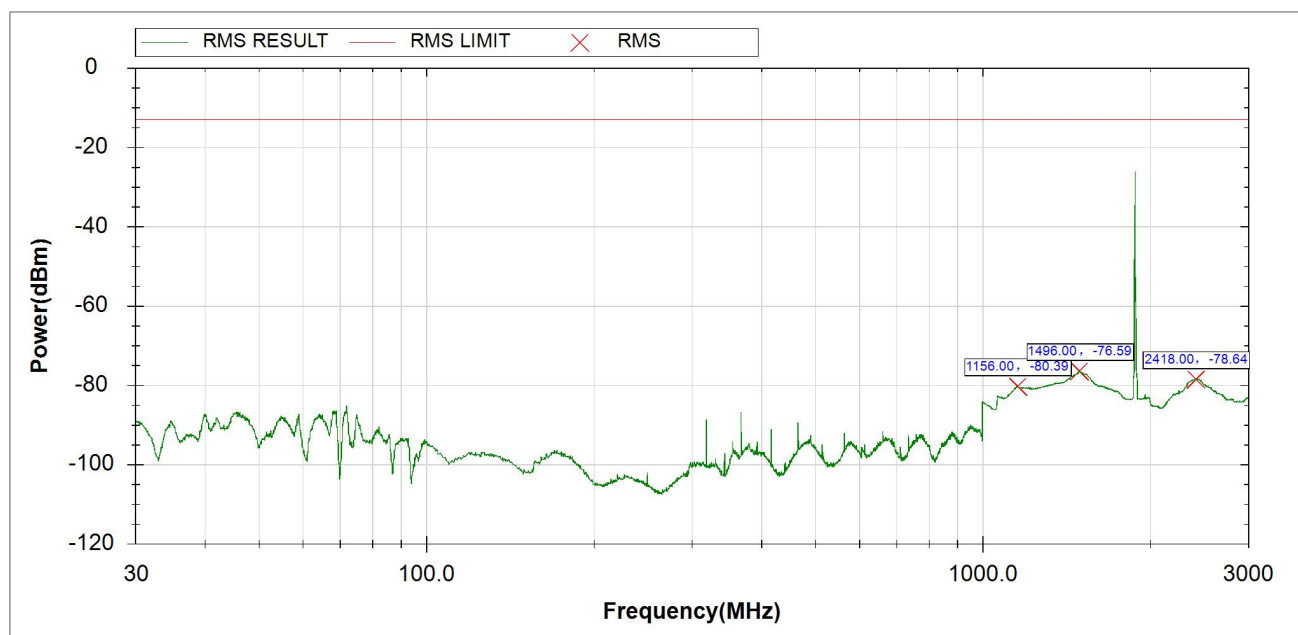
WCDMA band II

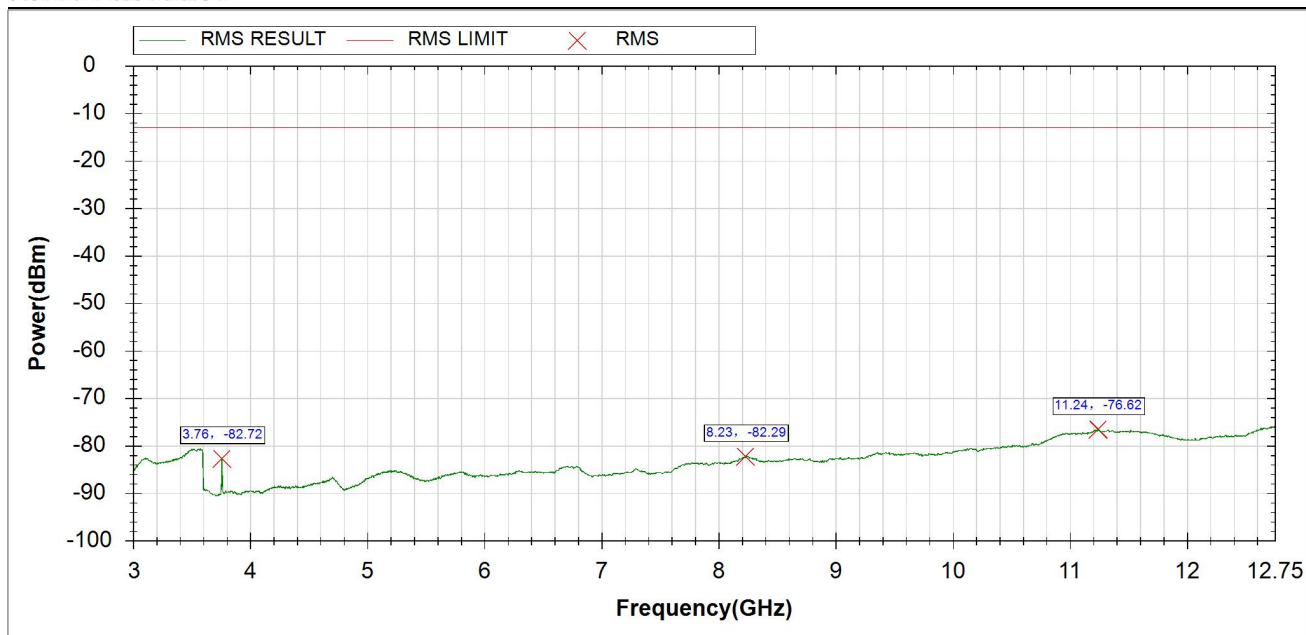
Test result:

ANT1

Channel 9400

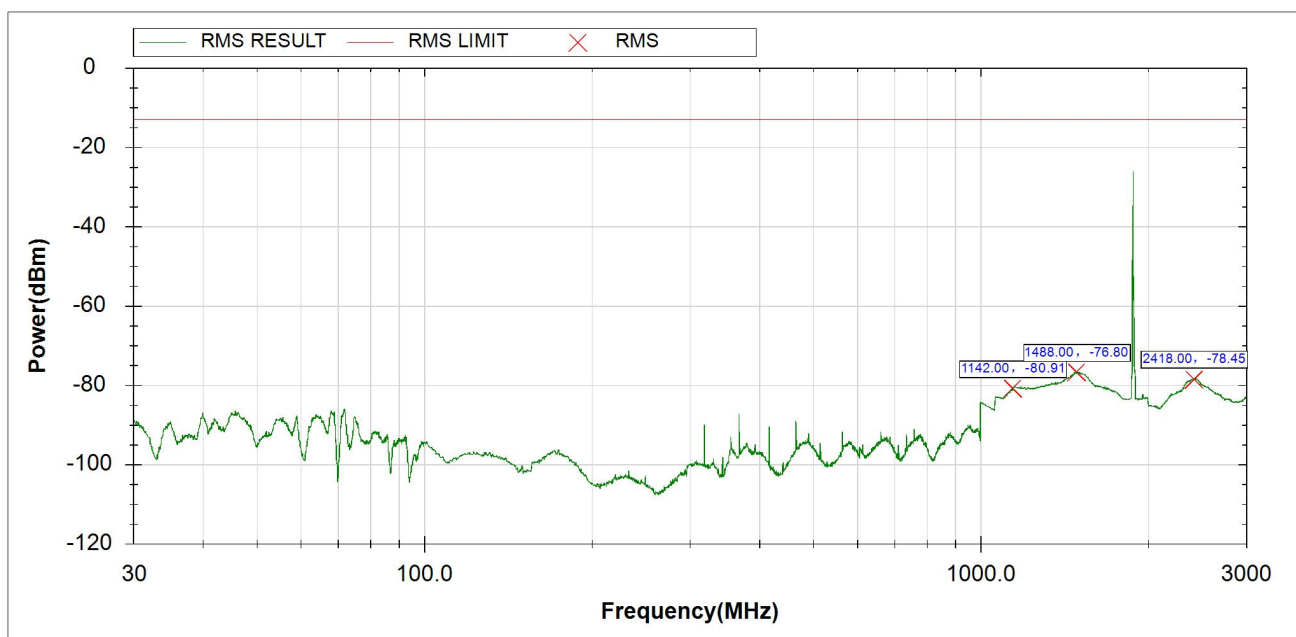
Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1156.00	-80.39	-13	Vertical
1496.00	-76.59	-13	Vertical
2418.00	-78.64	-13	Vertical
3760.00	-82.72	-13	Vertical
8230.00	-82.29	-13	Vertical
11240.00	-76.62	-13	Vertical

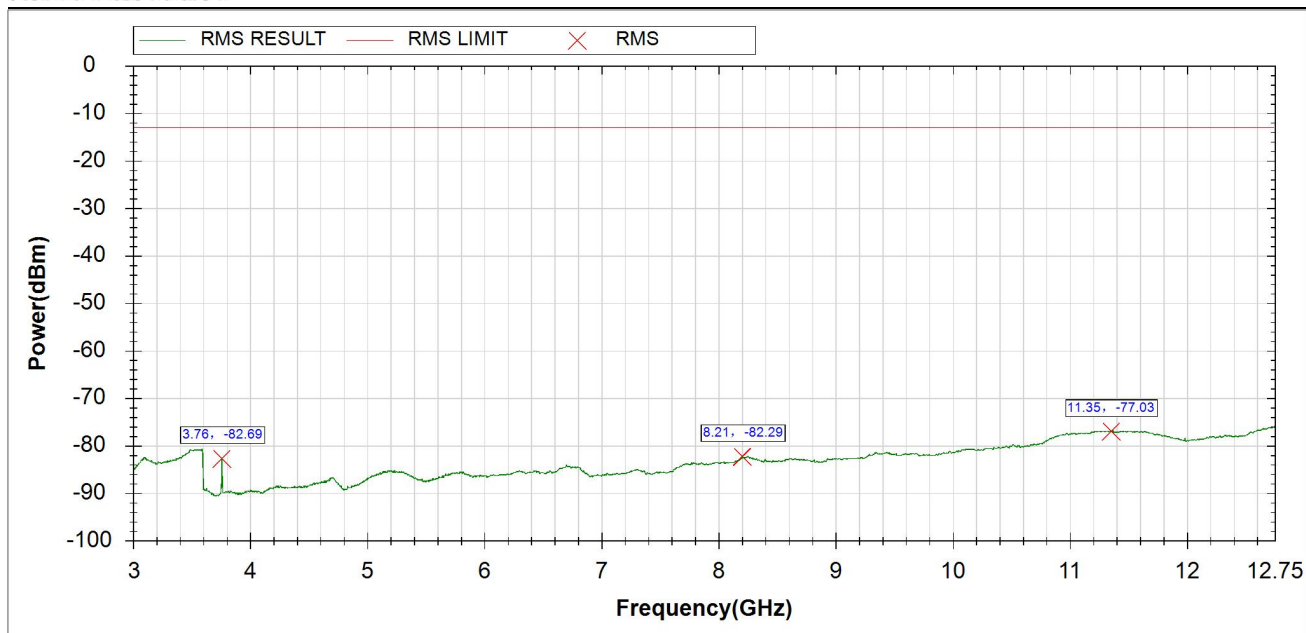




ANT4
Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1142.00	-80.91	-13	Vertical
1488.00	-76.80	-13	Vertical
2418.00	-78.45	-13	Vertical
3760.00	-82.69	-13	Vertical
8210.00	-82.29	-13	Vertical
11350.00	-77.03	-13	Vertical





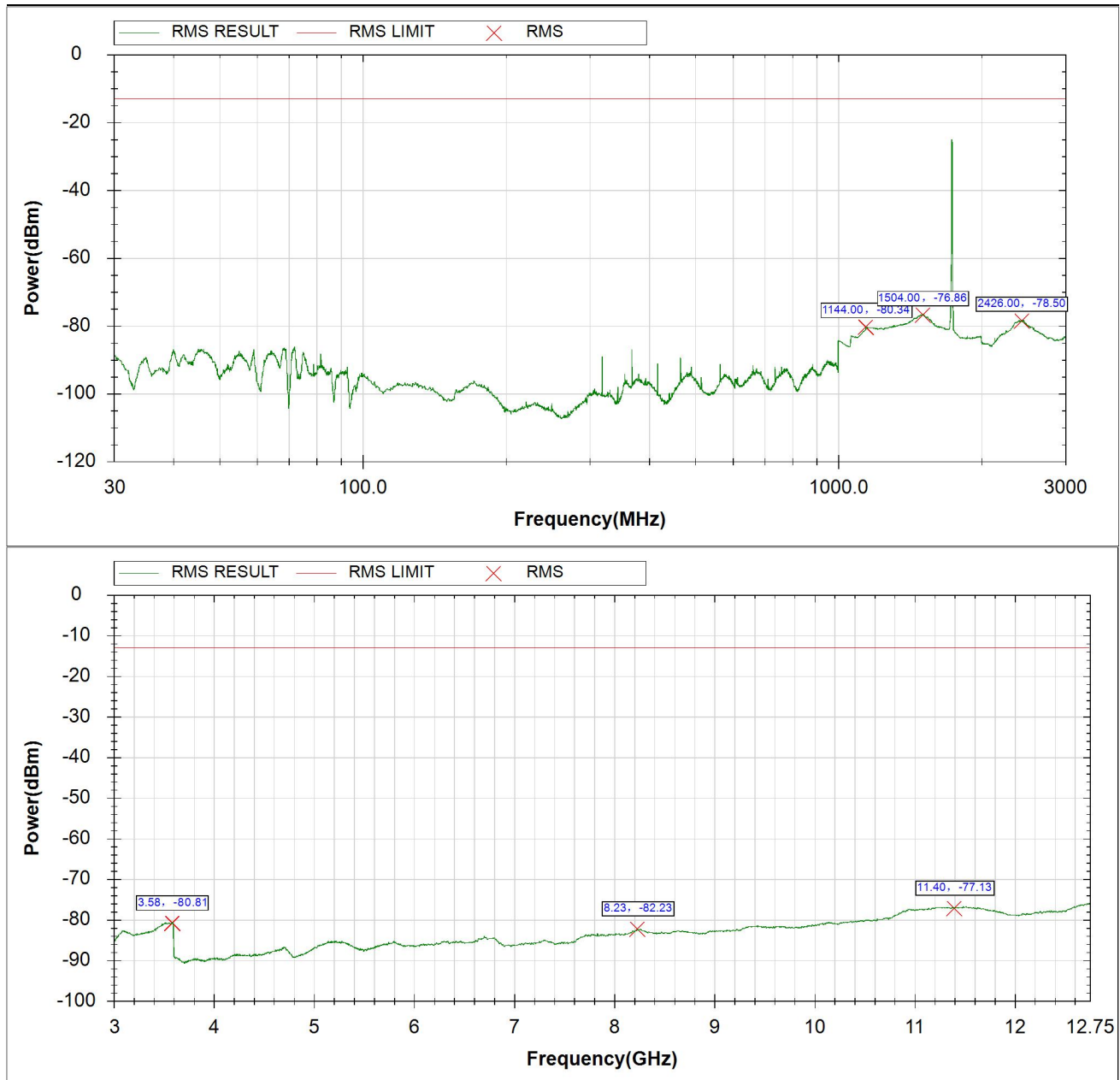
WCDMA band IV

Test result:

ANT1

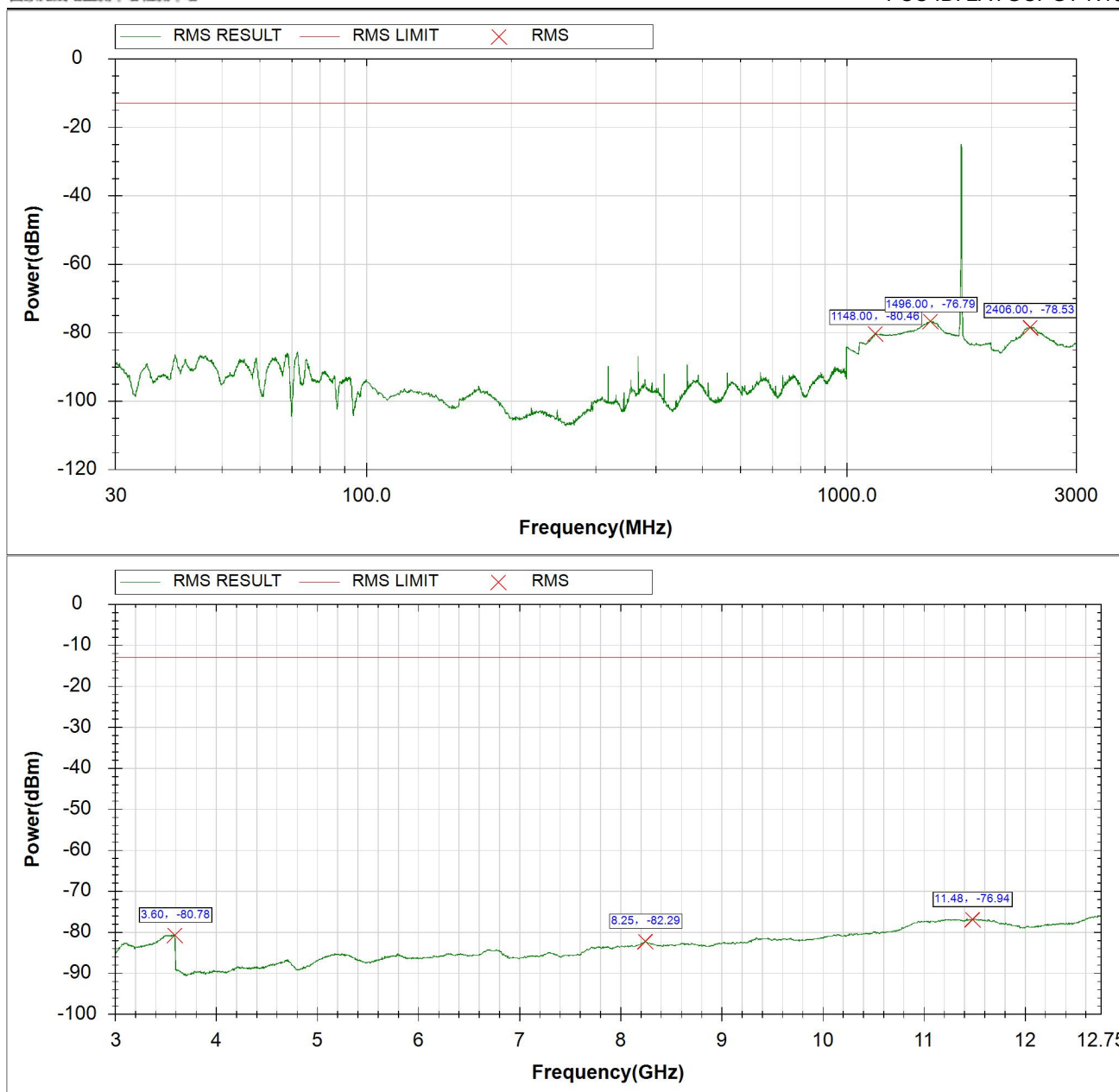
Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1144.00	-80.34	-13	Vertical
1504.00	-76.86	-13	Vertical
2426.00	-78.50	-13	Vertical
3580.00	-80.81	-13	Vertical
8230.00	-82.23	-13	Vertical
11400.00	-77.13	-13	Vertical



ANT4
Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1148.00	-80.46	-13	Vertical
1496.00	-76.79	-13	Vertical
2406.00	-78.53	-13	Vertical
3600.00	-80.78	-13	Vertical
8250.00	-82.29	-13	Vertical
11480.00	-76.94	-13	Vertical



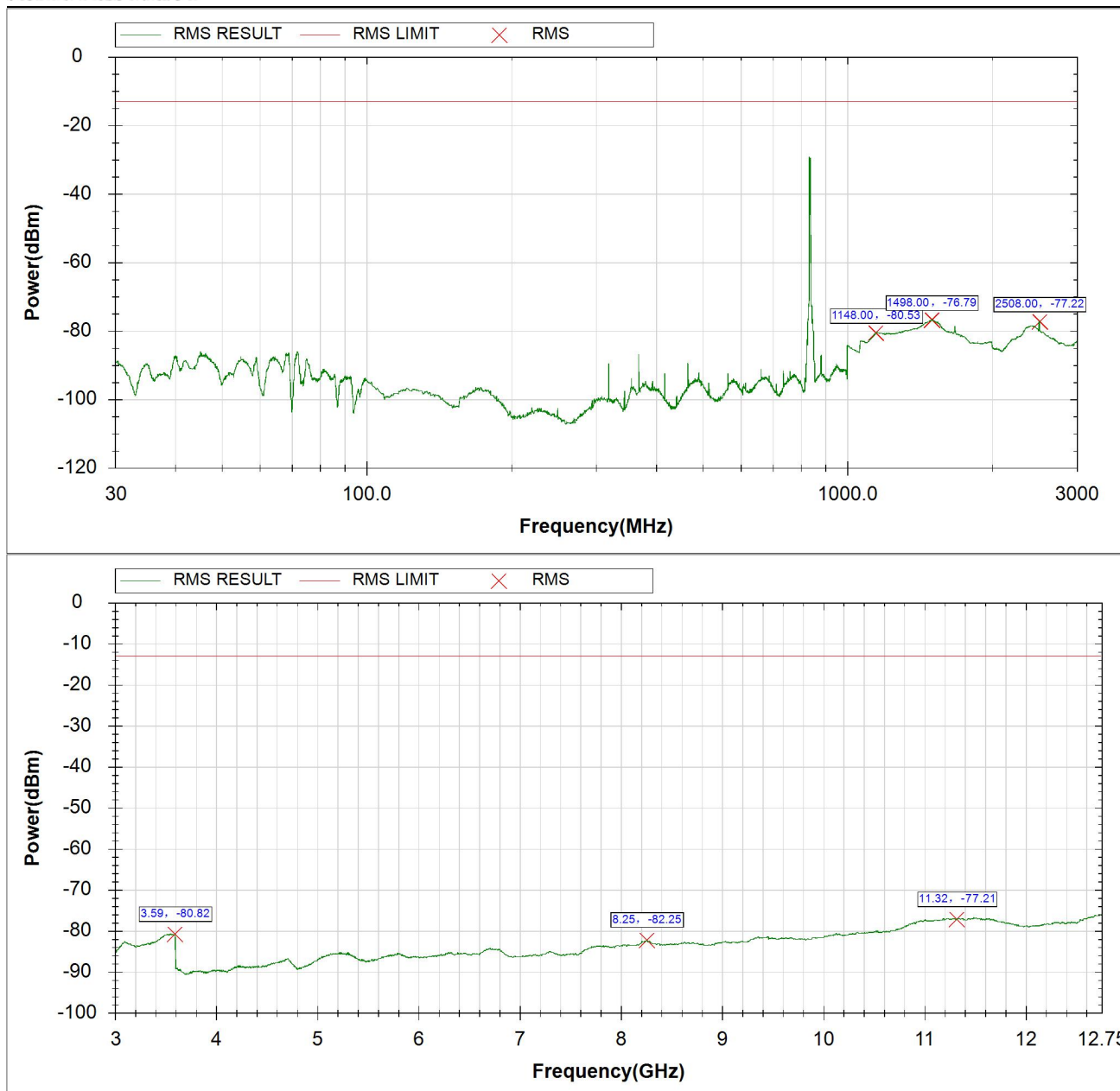
WCDMA band V

Test result:

ANT0

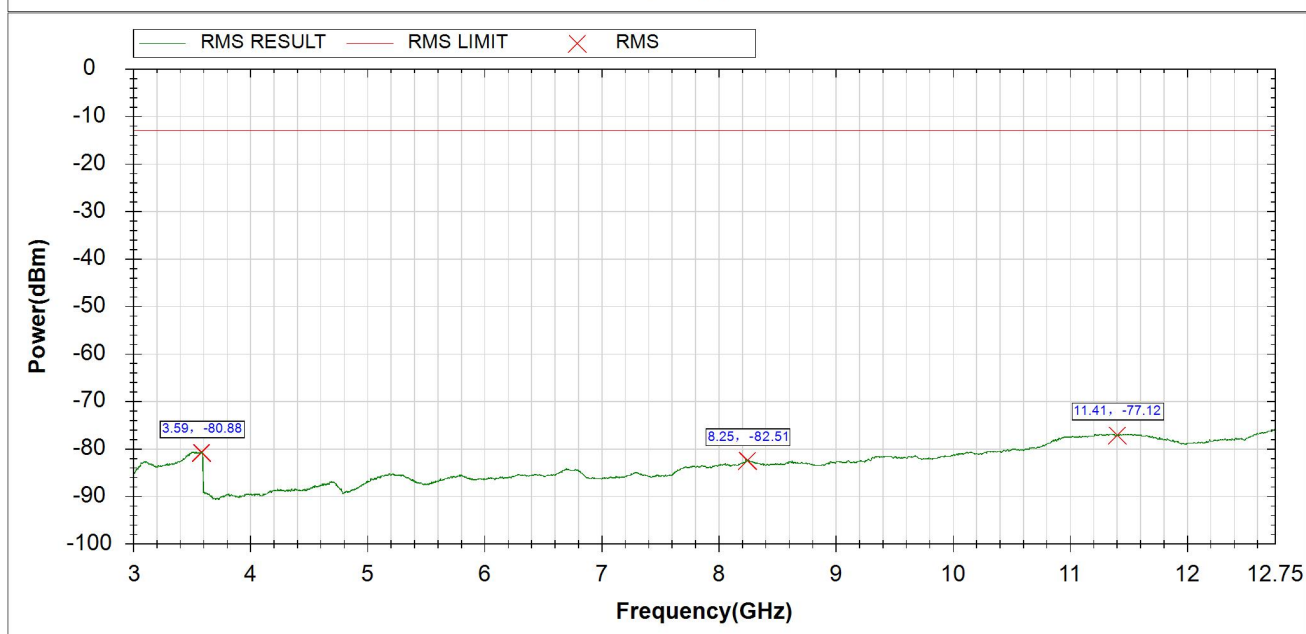
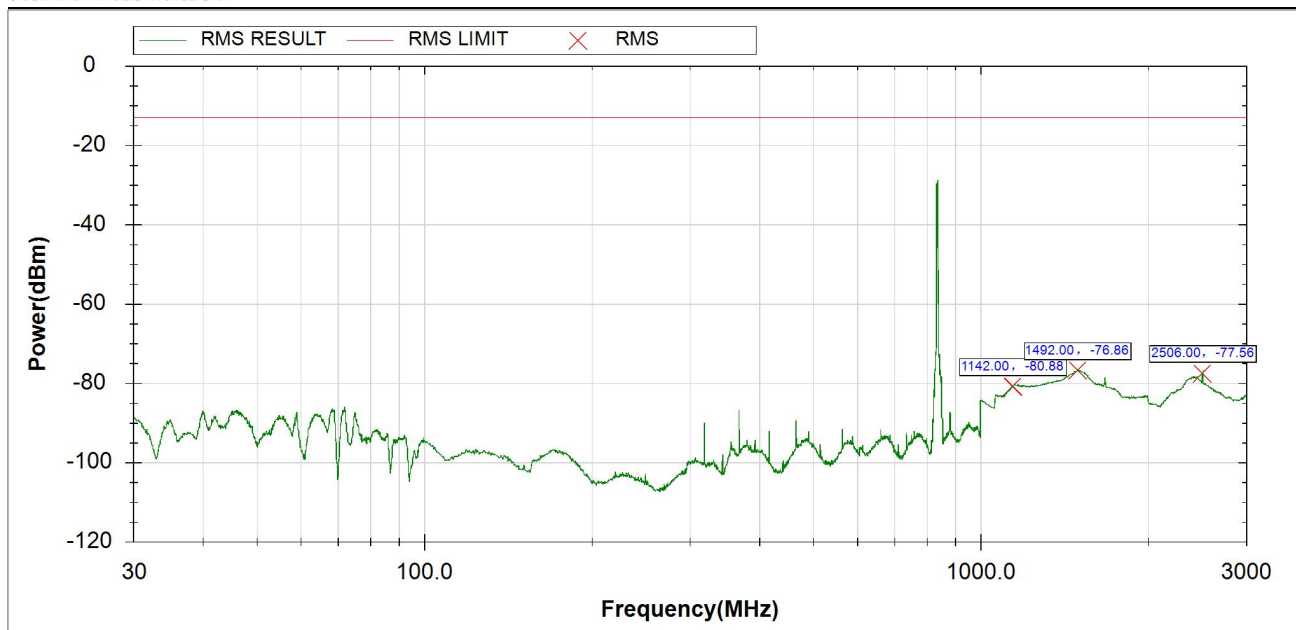
Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1148.00	-80.53	-13	Vertical
1498.00	-76.79	-13	Vertical
2508.00	-77.22	-13	Vertical
3590.00	-80.82	-13	Vertical
8250.00	-82.25	-13	Vertical
11320.00	-77.21	-13	Vertical



ANT3
Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1142.00	-80.88	-13	Vertical
1492.00	-76.86	-13	Vertical
2506.00	-77.56	-13	Vertical
3590.00	-80.88	-13	Vertical
8250.00	-82.51	-13	Vertical
11410.00	-77.12	-13	Vertical



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