



TEST REPORT

No. I22Z62512-WMD02

for

HONOR Device Co., Ltd.

Smart Phone

Model Name: RBN-NX3

FCC ID: 2AYGCRBN-NX3

with

Hardware Version: HN1RBNM

Software Version: 6.1.0.100 (C900E100R1P1)

Issued Date: 2023-02-14

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z62512-WMD02	Rev.0	1 st edition	2023-02-14

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0 and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2022-12-29

Testing End Date: 2023-02-06

1.5. Signature



Dong Yuan
(Prepared this test report)



Zhou Yu
(Reviewed this test report)



Zhao Hui Lin
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: HONOR Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli
Address /Post: West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong
518040, People's Republic of China

2.2. Manufacturer Information

Company Name: HONOR Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli
Address /Post: West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong
518040, People's Republic of China

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Smart Phone
Model Name	RBN-NX3
FCC ID	2AYGCRBN-NX3
Antenna	Internal
Extreme vol. Limits	3.6VDC to 4.45VDC (nominal: 3.87VDC)
Extreme temp. Tolerance	0°C to +35°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT03a	861571060012125/ 861571060030127	HN1RBNM	6.1.0.100 (C900E100R1P1)	2022-12-29

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE2	Battery
AE3	Battery
AE4	Battery

AE1

Model	HB496590EFW
Manufacturer	SCUD
Capacitance	4900mAh

AE2

Model	HB496590EFW-F
Manufacturer	SCUD
Capacitance	4900mAh

AE3

Model	HB496590EFW
Manufacturer	NVT
Capacitance	4900mAh

AE4

Model	HB496590EFW-F
Manufacturer	NVT



Capacitance 4900mAh

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters are supplied by the customer, which are the bases of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-21 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-21 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-21 Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS	v03r01

5. Summary Of Test Result

WCDMA Band II

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	24.232	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	24.238	P
6	Band Edge Compliance	24.238	P
7	Conducted Spurious Emission	24.238	P
8	Peak-to-Average Power Ratio	24.232	P

WCDMA Band V

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	22.913	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	22.917	P
6	Band Edge Compliance	22.917	P
7	Conducted Spurious Emission	22.917	P

WCDMA Band IV

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	27.53	P
6	Band Edge Compliance	27.53	P
7	Conducted Spurious Emission	27.53	P
8	Peak-to-Average Power Ratio	27.50	P

Terms used in Verdict column

P	Pass. The EUT complies with the essential requirements in the standard.
NP	Not Performed. The test was not performed by CTTL.
NA	Not Applicable. The test was not applicable.
BR	Re-use test data from basic model report.
F	Fail. The EUT does not comply with the essential requirements in the standard.

All the test results are based on normal power.

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results. The test results shown in the following sections represent the worst case emission.

6. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Universal Radio Communication Tester	CMU200	108646	R&S	2023-01-17	25 months
Universal Radio Communication Tester	CMU200	108646	R&S	2024-01-09	1 year
Spectrum Analyzer	FSU	200030	R&S	2023-05-25	1 year
Climate chamber	SH-242	93008556	ESPEC	2023-12-23	3 years

Annex A: Measurement Results

A.1 Output Power

A.1.1 Summary

During the process of testing, the EUT was controlled via communication tester to ensure max power transmission and proper modulation.

In all cases, output power is within the specified limits.

A.1.2 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

The results below include a correction factor for cable loss that is provided by the customer.

A.1.3 Measurement Result

WCDMA Band II

QPSK

	CH	Frequency (MHz)	output power (dBm)
WCDMA (Band II)	9262	1852.4	23.99
	9400	1880.0	24.12
	9538	1907.6	24.06

WCDMA Band V

QPSK

	CH	Frequency (MHz)	output power (dBm)
WCDMA (Band V)	4132	826.4	24.59
	4183	836.6	24.57
	4233	846.6	24.45

WCDMA Band IV

QPSK

	CH	Frequency (MHz)	output power (dBm)
WCDMA (Band IV)	1312	1712.4	24.16
	1412	1732.4	24.07
	1513	1752.6	24.15

Note: Expanded measurement uncertainty is $U = 0.578$ dB, $k = 2$.

A.2 Frequency Stability

A.2.1 Method of Measurement

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as F_L and F_H respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of CMU200.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on mid channel of each band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10°C decrements from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of the lower, higher and nominal voltage. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

A.2.2 Measurement results

WCDMA Band II QPSK

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	1850.032	1909.992		
50				11.69	0.0062
40				11.38	0.0061
30				10.16	0.0054
10				11.12	0.0059
0				10.31	0.0055
-10				10.65	0.0057
-20				10.80	0.0057
-30				11.20	0.0060

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.032	1909.992	8.71	0.0046
4.45				10.91	0.0058

WCDMA Band V QPSK

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	824.032	848.984		
50				6.52	0.0078
40				5.84	0.0070
30				0.00	0.0000
10				0.72	0.0009
0				0.40	0.0005
-10				6.24	0.0075
-20				0.85	0.0010
-30				4.15	0.0050

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.032	848.984	-1.01	0.0012
4.45				1.10	0.0013

WCDMA Band IV QPSK

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	1710.024	1754.984		
50				6.12	0.0035
40				7.11	0.0041
30				8.47	0.0049
10				6.39	0.0037
0				6.82	0.0039
-10				5.02	0.0029
-20				6.45	0.0037
-30				7.52	0.0043

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.024	1754.984	5.42	0.0031
4.45				7.34	0.0042

Note: Expanded measurement uncertainty is U = 0.01 PPM, k = 2.

A.3 Occupied Bandwidth

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

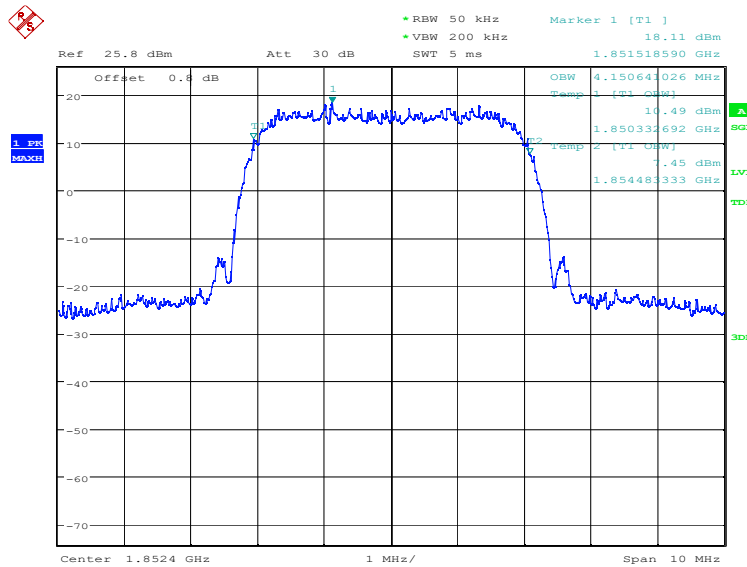
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.

WCDMA Band II (99%)-QPSK

Frequency (MHz)	Occupied Bandwidth (99%)(kHz)
1852.4	4150.64
1880.0	4150.64
1907.6	4166.67

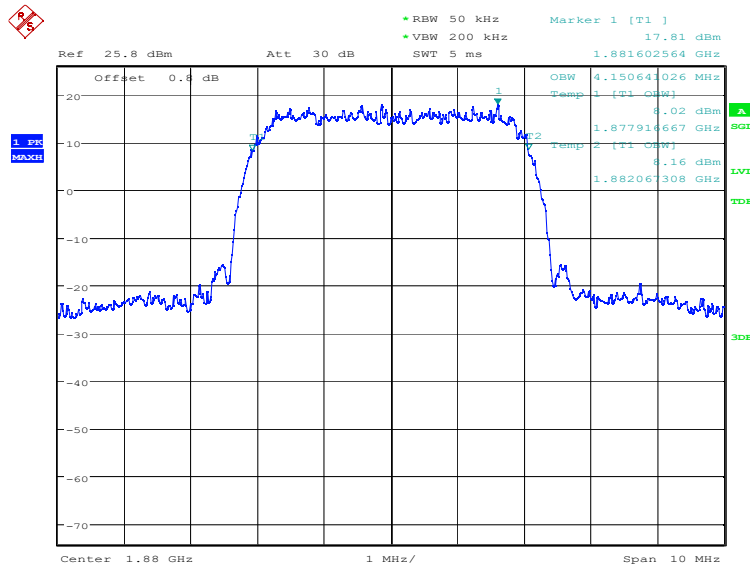
WCDMA Band II (99%)

Channel 9262-Occupied Bandwidth (99% BW)



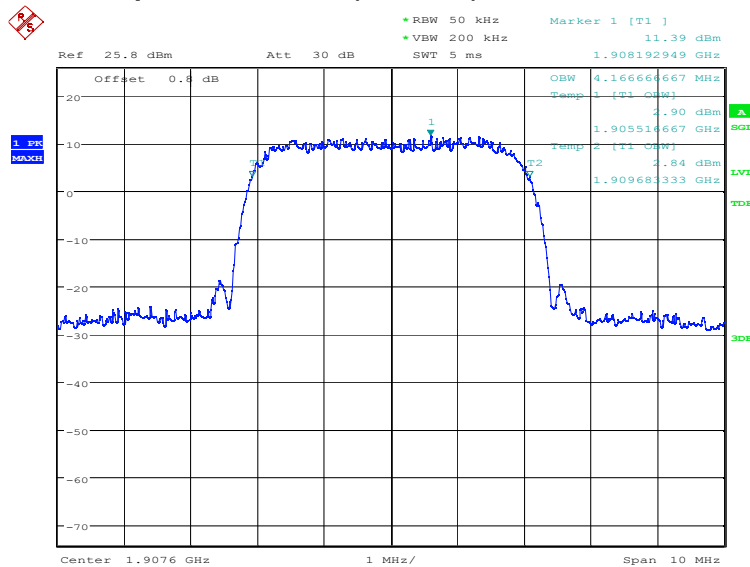
Date: 3.JAN.2023 15:43:42

Channel 9400-Occupied Bandwidth (99% BW)



Date: 3.JAN.2023 15:44:10

Channel 9538-Occupied Bandwidth (99% BW)



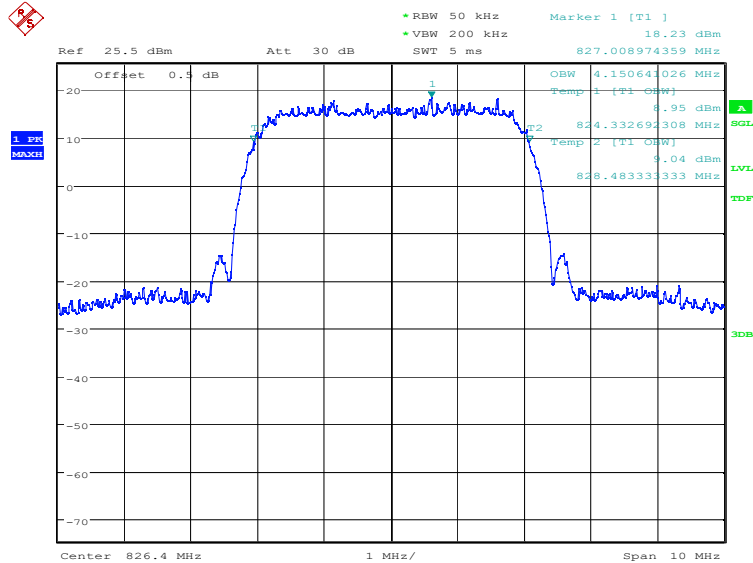
Date: 3.JAN.2023 15:44:38

WCDMA Band V (99%)-QPSK

Frequency (MHz)	Occupied Bandwidth (99%)(kHz)
826.4	4150.64
836.6	4134.62
846.6	4150.64

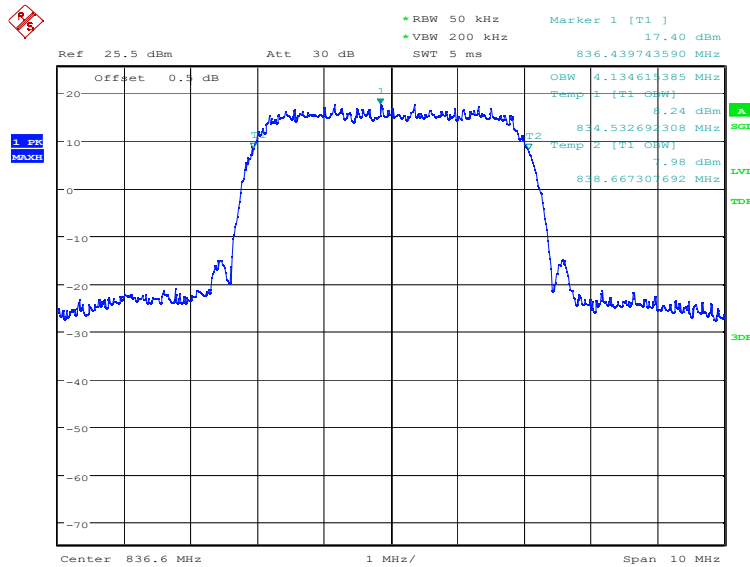
WCDMA Band V (99%)

Channel 4132-Occupied Bandwidth (99% BW)



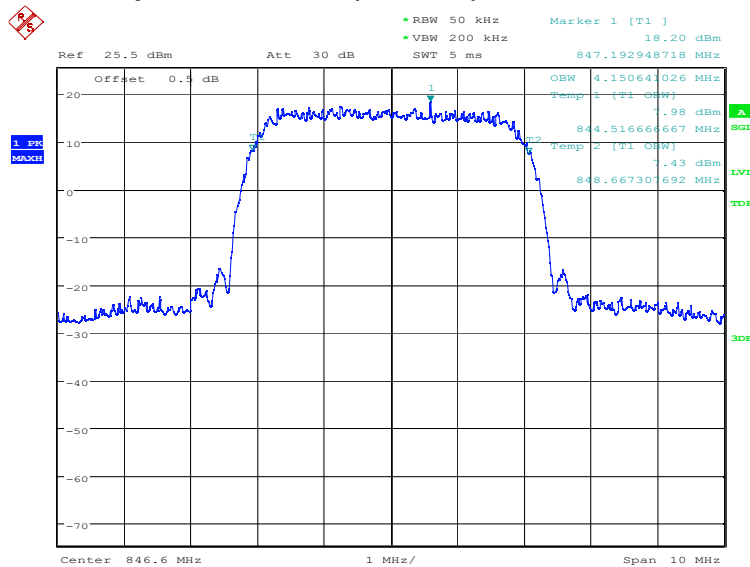
Date: 3.JAN.2023 11:22:04

Channel 4183-Occupied Bandwidth (99% BW)



Date: 3.JAN.2023 11:22:32

Channel 4233-Occupied Bandwidth (99% BW)



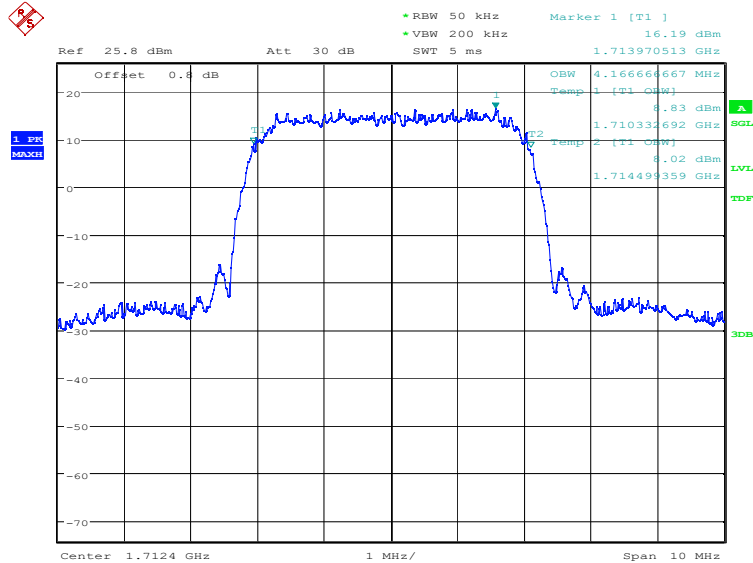
Date: 3.JAN.2023 11:22:59

WCDMA Band IV (99%)-QPSK

Frequency (MHz)	Occupied Bandwidth (99%)(kHz)
1712.4	4166.67
1732.4	4150.64
1752.6	4150.64

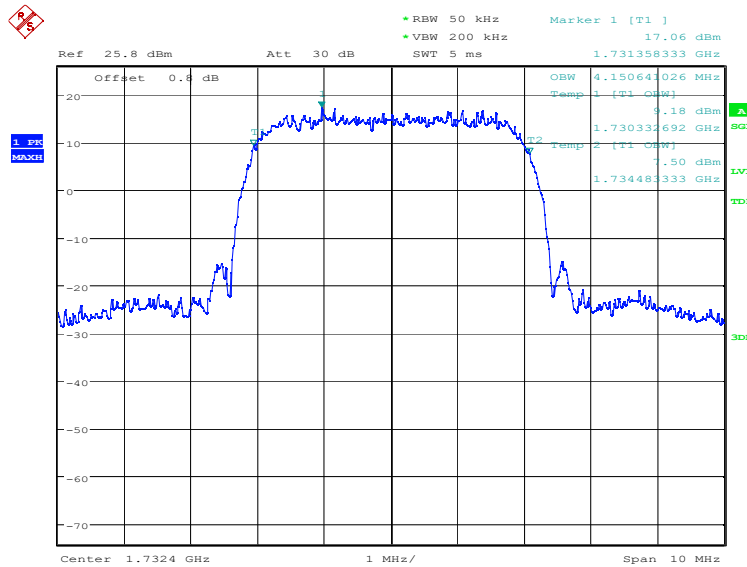
WCDMA Band IV (99%)

Channel 1312-Occupied Bandwidth (99% BW)



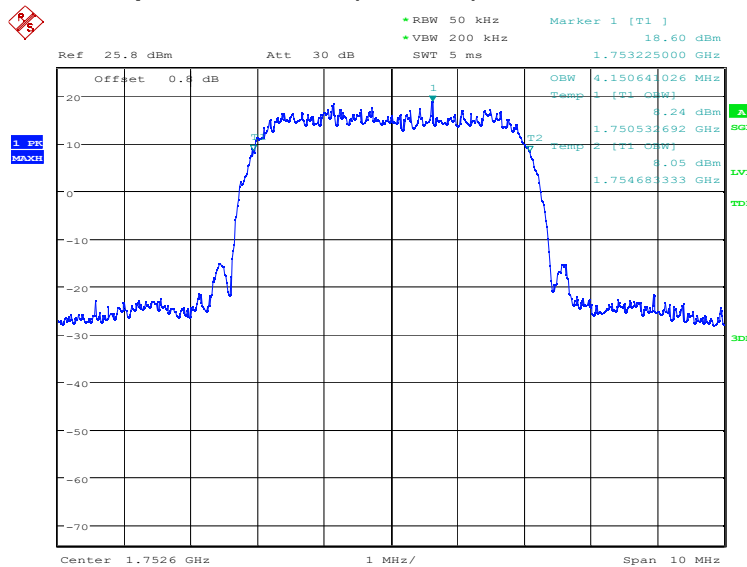
Date: 3.JAN.2023 15:45:43

Channel 1412-Occupied Bandwidth (99% BW)



Date: 3.JAN.2023 15:46:35

Channel 1513-Occupied Bandwidth (99% BW)



Date: 3.JAN.2023 15:47:36

Note: Expanded measurement uncertainty is $U = 3428 \text{ Hz}$, $k = 2$.

A.4 Emission Bandwidth

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The measurement method is from ANSI C63.26:

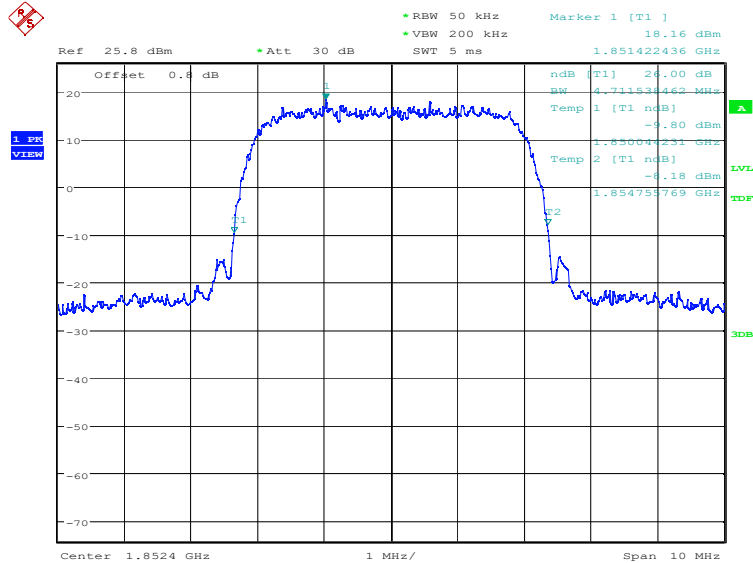
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

WCDMA Band II-QPSK (-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc)(kHz)
1852.4	4711.54
1880.0	4727.56
1907.6	4711.54

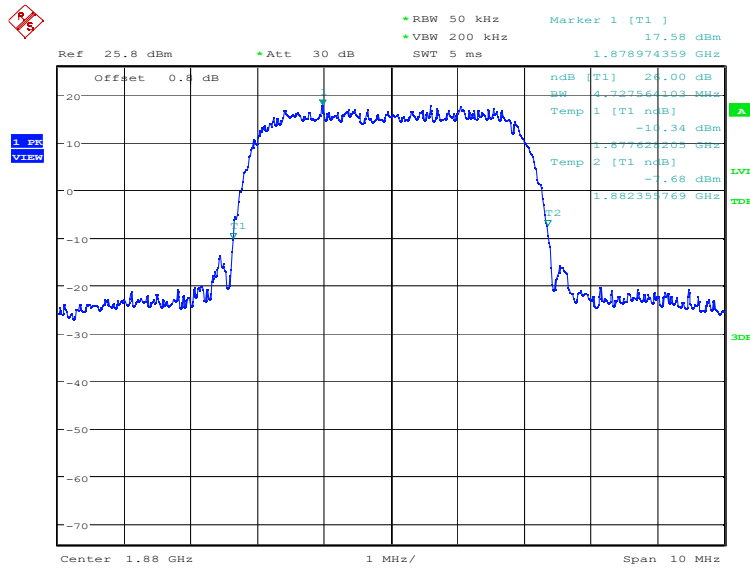
WCDMA Band II (-26dBc)

Channel 9262-Emission Bandwidth (-26dBc BW)



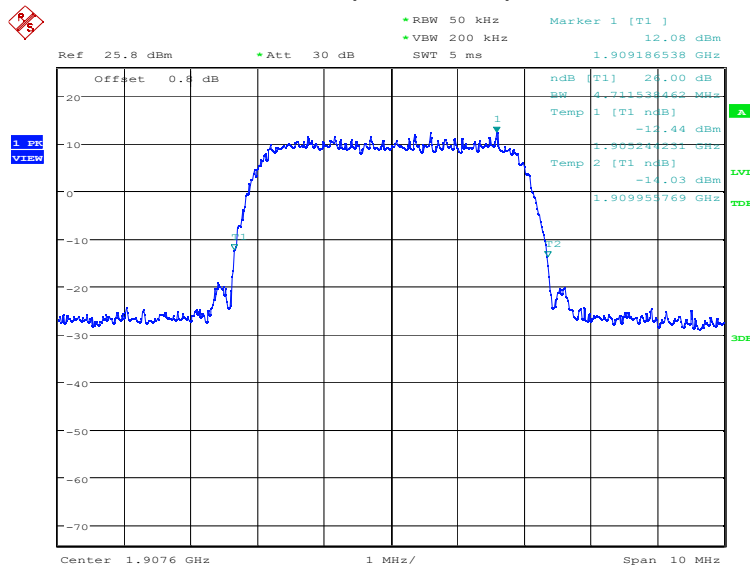
Date: 3.JAN.2023 15:48:54

Channel 9400-Emission Bandwidth (-26dBc BW)



Date: 3.JAN.2023 15:49:22

Channel 9538-Emission Bandwidth (-26dBc BW)



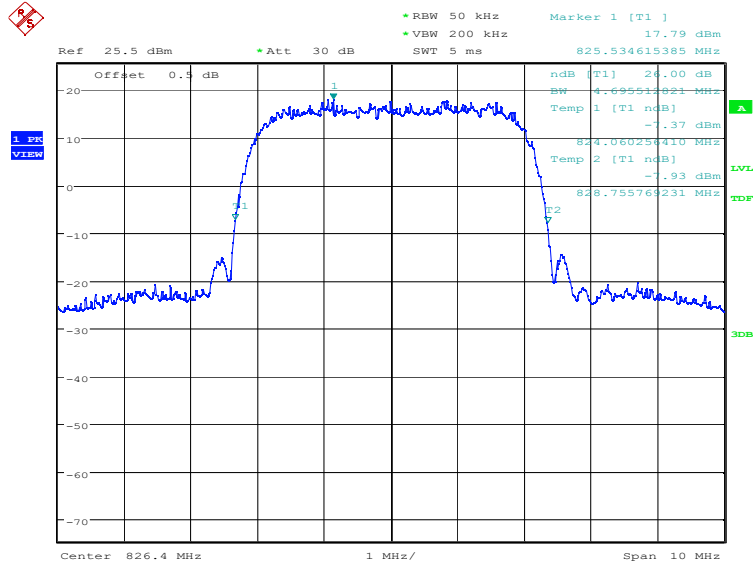
Date: 3.JAN.2023 15:49:50

WCDMA Band V-QPSK (-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc)(kHz)
826.40	4695.51
836.60	4679.49
846.60	4695.51

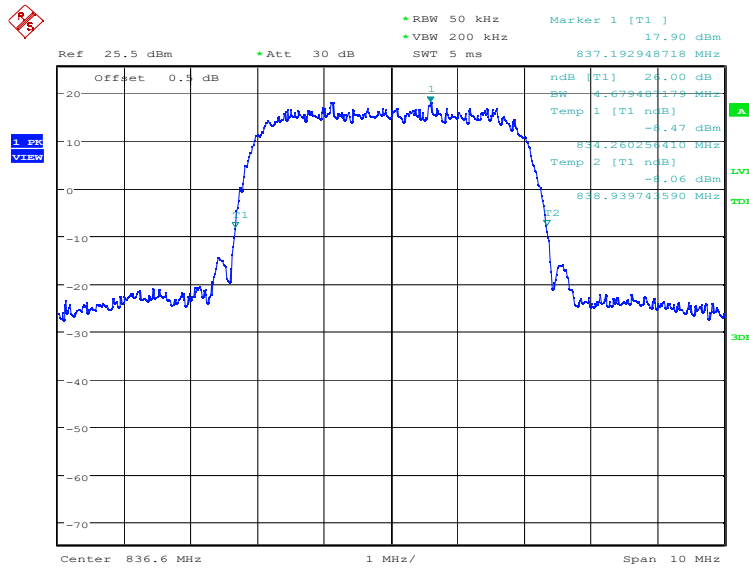
WCDMA Band V (-26dBc)

Channel 4132-Emission Bandwidth (-26dBc BW)



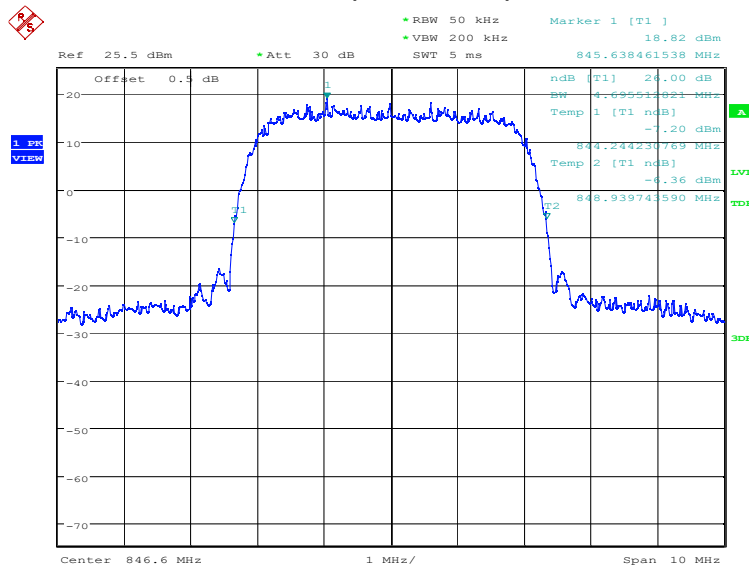
Date: 3.JAN.2023 11:24:16

Channel 4183-Emission Bandwidth (-26dBc BW)



Date: 3.JAN.2023 11:24:44

Channel 4233-Emission Bandwidth (-26dBc BW)



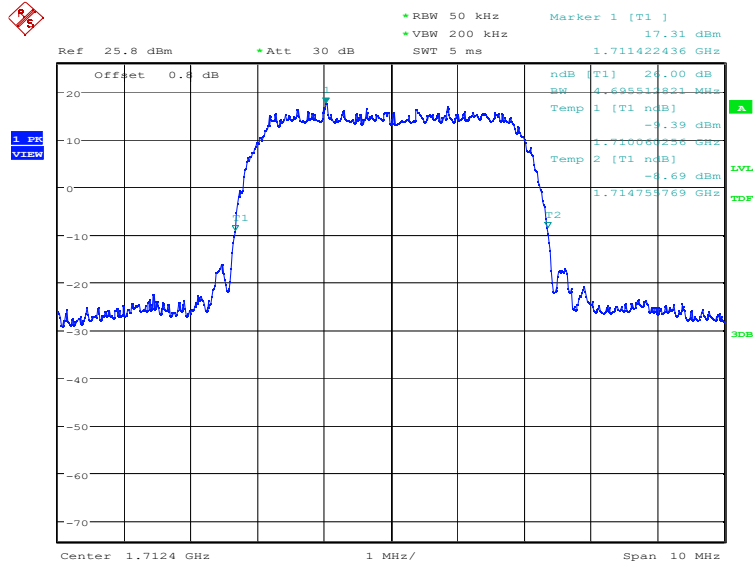
Date: 3.JAN.2023 11:25:12

WCDMA Band IV-QPSK (-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc)(kHz)
1712.4	4695.51
1732.4	4695.51
1752.6	4695.51

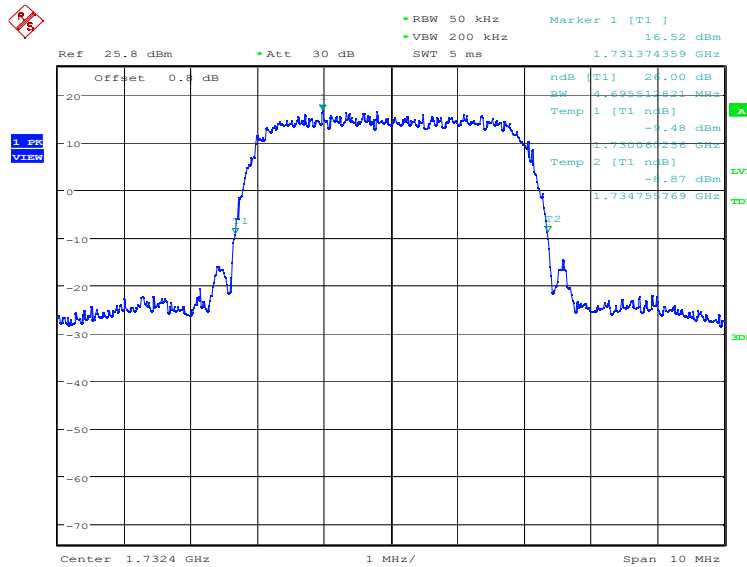
WCDMA Band IV (-26dBc)

Channel 1312-Emission Bandwidth (-26dBc BW)



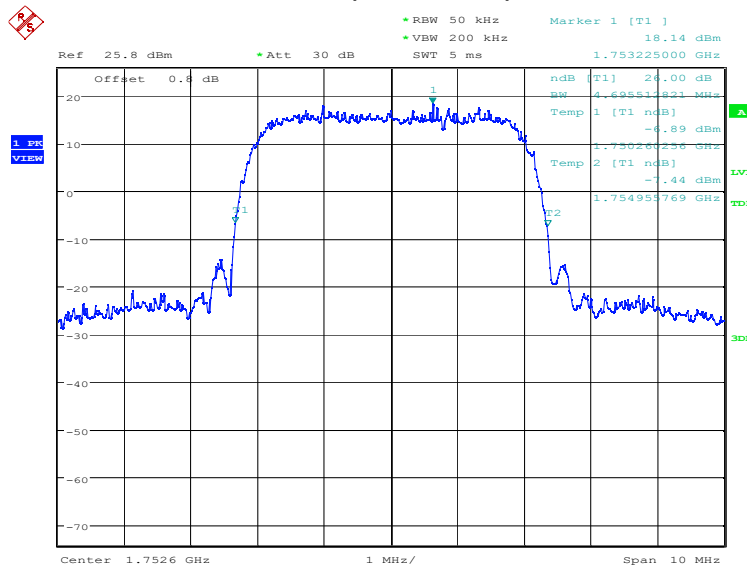
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Channel 1412-Emission Bandwidth (-26dBc BW)



Date: 3.JAN.2023 15:51:31

Channel 1513-Emission Bandwidth (-26dBc BW)



Date: 3.JAN.2023 15:52:32

Note: Expanded measurement uncertainty is $U = 3428 \text{ Hz}$, $k = 2$.

A.5 Band Edge Compliance

A.5.1 Measurement limit

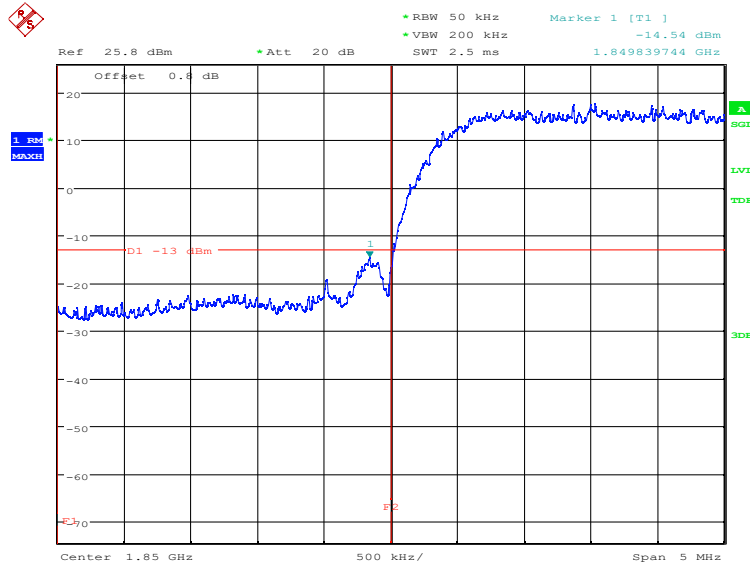
Part 22.917 , Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to KDB 971168, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.

A.5.2 Measurement result

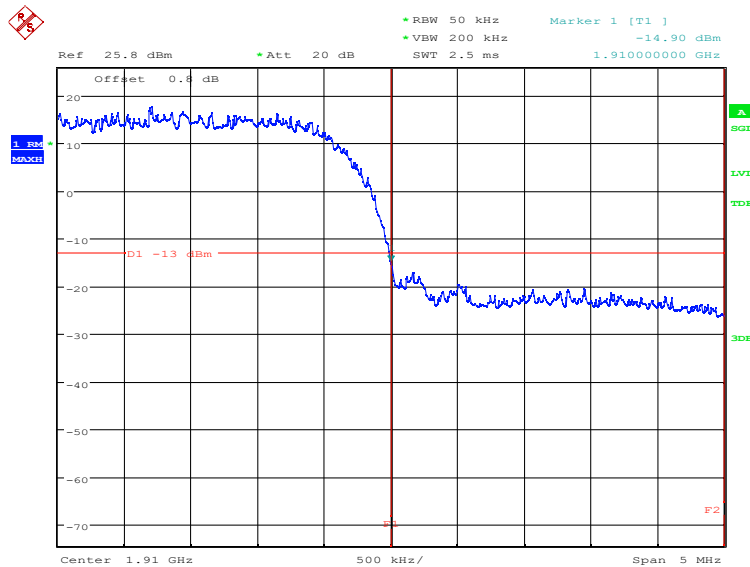
WCDMA Band II-QPSK

Channel 9262



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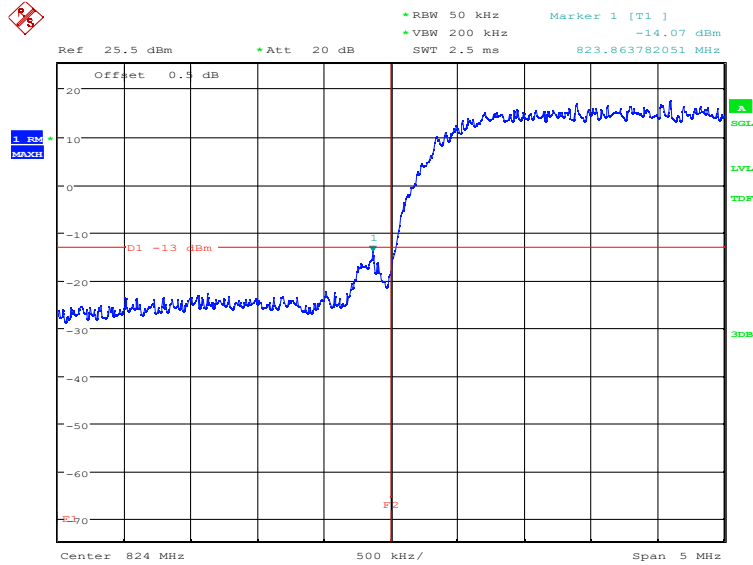
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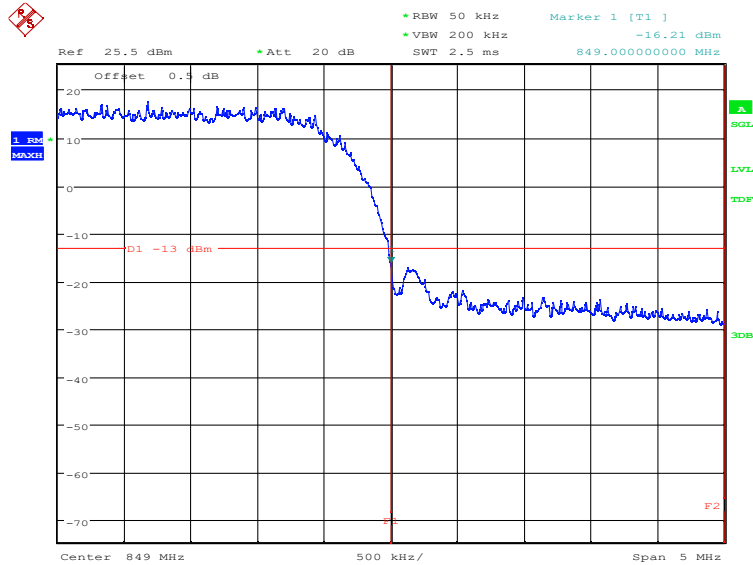
WCDMA Band V-QPSK

Channel 4132



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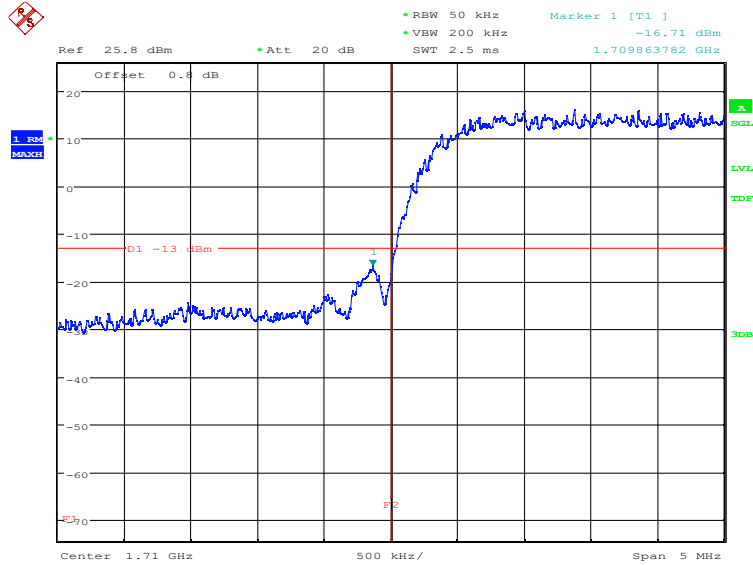
Channel 4233



Date: 5.JAN.2023 15:21:33

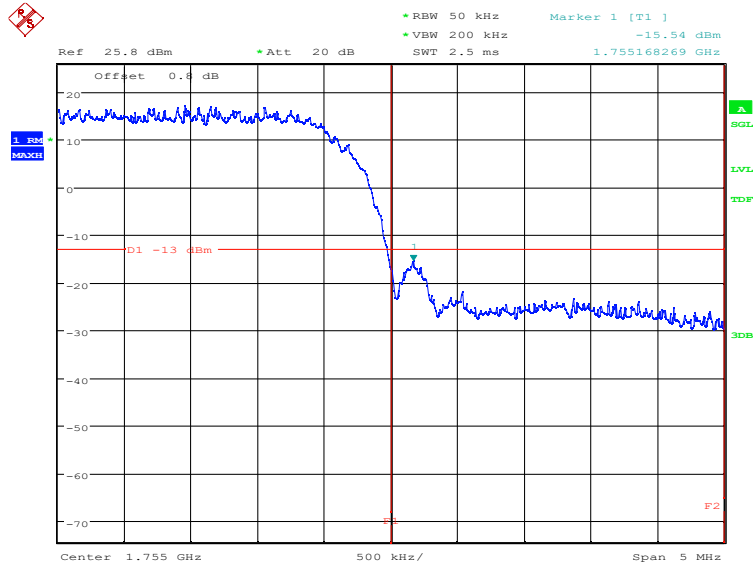
WCDMA Band IV-QPSK

Channel 1312



Date: 5.JAN.2023 15:14:38

Channel 1513



Date: 5.JAN.2023 15:16:10

Note: Expanded measurement uncertainty is $U = 0.622$ dB, $k = 2$.

A.6 Conducted Spurious Emission

A.6.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given below:
 - (a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
 - (b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is greater than $2 \times \text{span/RBW}$.

A. 6.2 Measurement Limit

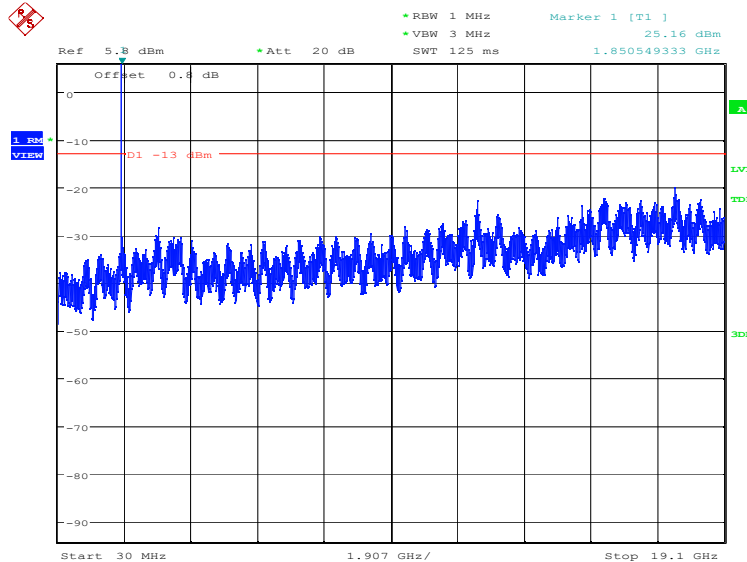
Part 22.917 , Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

A.6.3 Measurement result

WCDMA Band II

Channel 9262: 30MHz – 19.10GHz

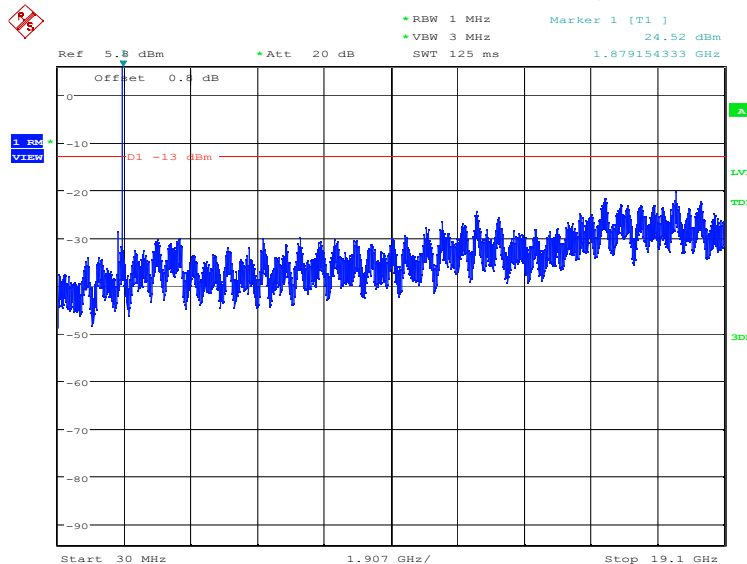
NOTE: peak above the limit line is the carrier frequency.



Date: 3.JAN.2023 15:53:53

Channel 9400: 30MHz – 19.10GHz

NOTE: peak above the limit line is the carrier frequency.



Date: 3.JAN.2023 15:54:24



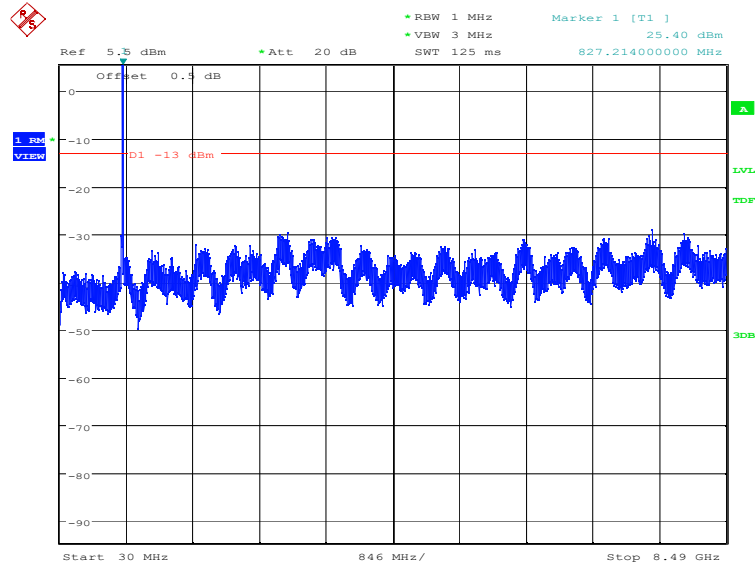
NOTE: peak above the limit line is the carrier frequency.



WCDMA Band V

Channel 4132: 30MHz –8.49GHz

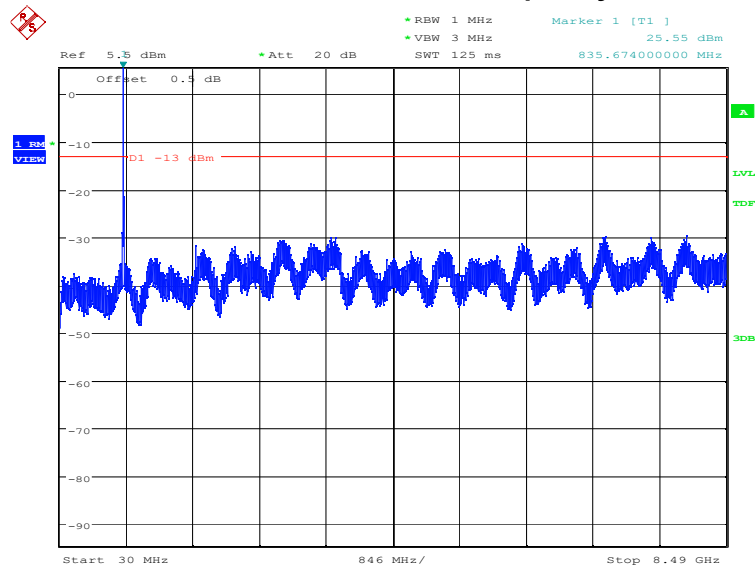
NOTE: peak above the limit line is the carrier frequency.



Date: 3.JAN.2023 11:26:32

Channel 4183: 30MHz –8.49GHz

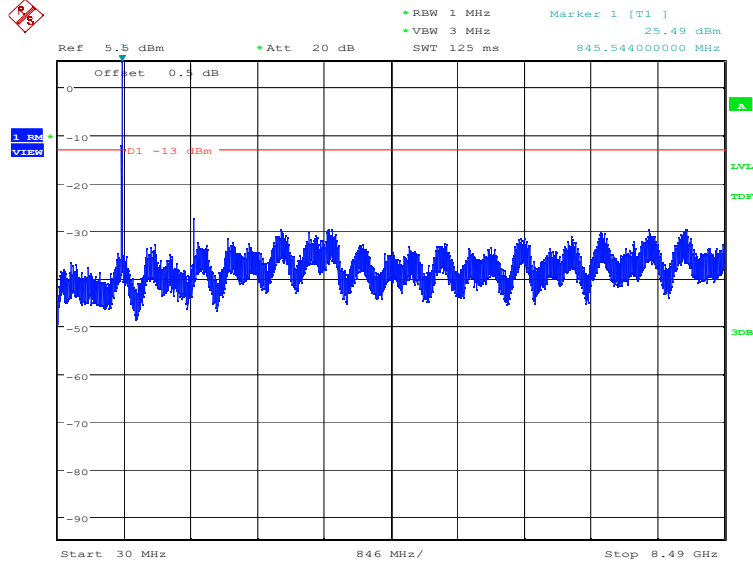
NOTE: peak above the limit line is the carrier frequency.



Date: 3.JAN.2023 11:27:03

Channel 4233: 30MHz –8.49GHz

NOTE: peak above the limit line is the carrier frequency.

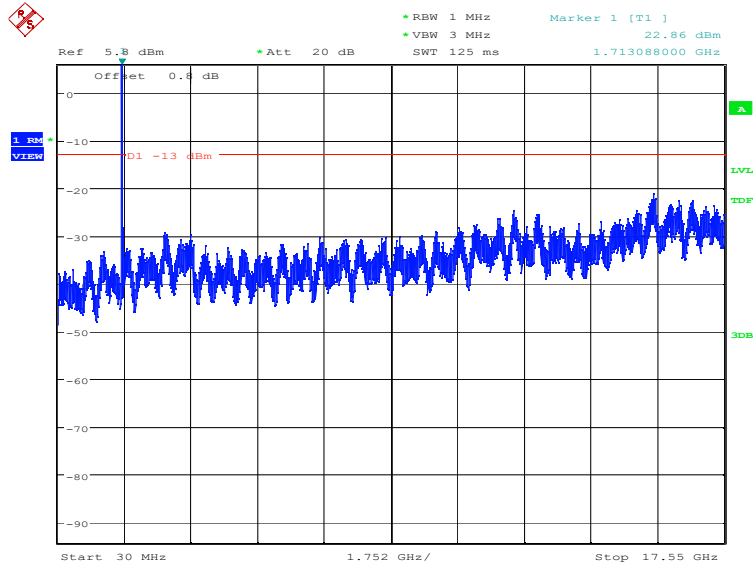


Date: 3.JAN.2023 11:27:34

WCDMA Band IV

Channel 1312: 30MHz –17.55GHz

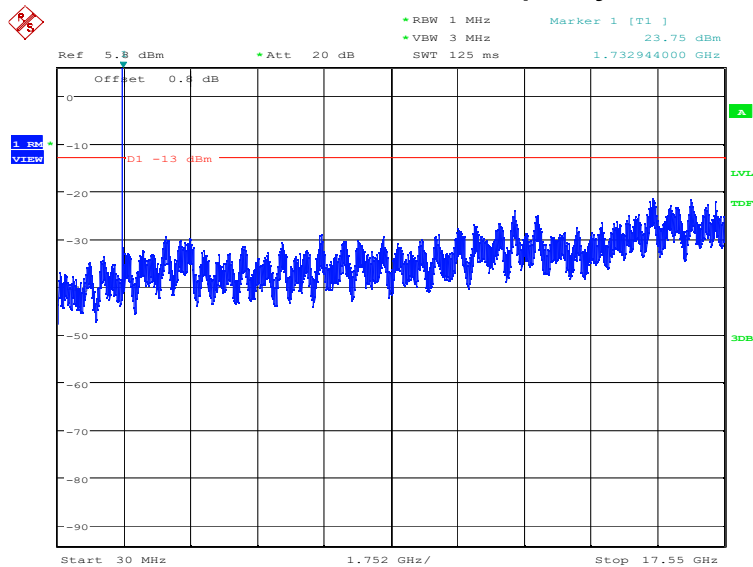
NOTE: peak above the limit line is the carrier frequency.



Date: 3.JAN.2023 15:56:05

Channel 1412: 30MHz –17.55GHz

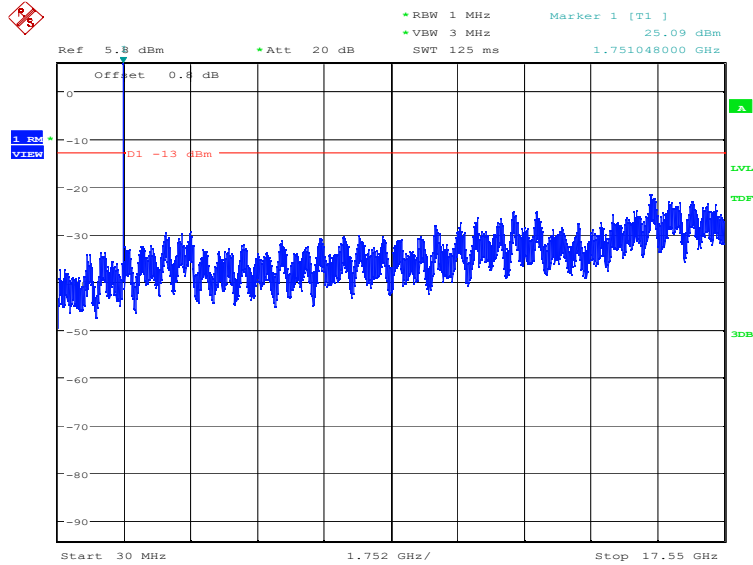
NOTE: peak above the limit line is the carrier frequency.



Date: 3.JAN.2023 15:56:47

Channel 1513: 30MHz –17.55GHz

NOTE: peak above the limit line is the carrier frequency.



Date: 3.JAN.2023 15:57:52

Note: Expanded measurement uncertainty is $U = 0.622$ dB, $k = 2$.

A.7 Peak-to-Average Power Ratio

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

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Record the maximum PAPR level associated with a probability of 0.1%.

WCDMA Band II-QPSK

Measurement result

CH	Frequency (MHz)	PAPR (dB)
9400	1880.0	3.59

WCDMA Band IV-QPSK

Measurement result

CH	Frequency (MHz)	PAPR (dB)
1412	1732.4	3.43

Note: Expanded measurement uncertainty is $U = 0.578$ dB, $k = 2$.

Annex B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> <div style="display: flex; justify-content: space-around; align-items: center;"><div style="font-size: 4em; font-weight: bold; letter-spacing: 0.5em;">NVLAP[®]</div><div style="text-align: center;"></div></div>	
<hr/> <h3>Certificate of Accreditation to ISO/IEC 17025:2017</h3> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p>Telecommunication Technology Labs, CAICT Beijing China</p>	
<p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p>	
<p>Electromagnetic Compatibility & Telecommunications</p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).</i></p>	
<hr/> <p>2022-10-01 through 2023-09-30 <i>Effective Dates</i></p>	<div style="display: flex; align-items: center; justify-content: center;"><div style="text-align: center;"><p>DEPARTMENT OF COMMERCE UNITED STATES OF AMERICA</p></div><div style="margin-left: 20px;"> <i>Dana S. Laman</i> For the National Voluntary Laboratory Accreditation Program</div></div>

END OF REPORT