



TEST REPORT

No.25T04N001821-002-RF WCDMA

for

Shanghai Sunmi Technology Co.,Ltd.

Smart POS Terminal

Model Name: T6721

FCC ID: 2AH25P3MIX

with

Hardware Version: Bgf6e

Software Version:

SP6611A_769__CS_patchbuild_20250326091858640

Issued Date: 2025-09-15

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 SAICT.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04N001821-002-RF WCDMA	Rev.0	1st edition	2025-09-15

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1. SUMMARY OF TEST REPORT

1.1. Test Items

Description	Smart POS Terminal
Model Name	T6721
Brand Name	SUNMI
Applicant's name	Shanghai Sunmi Technology Co.,Ltd.
Manufacturer's Name	Shanghai Sunmi Technology Co.,Ltd.

1.2. Test Standards

Please refer to "4. Reference Documents".

1.3. Test Result

All test items are passed. Please refer to "6 Summary of Test Results" for detail.

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China 518000

1.5. Project Data

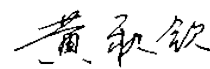
Testing Start Date: 2023-05-30

Testing End Date: 2023-07-05

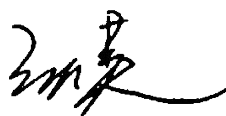
1.6. Signature



Xie Chuhang
(Prepared this test report)



Huang Qiuqin
(Reviewed this test report)



Zhang Hao
(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Shanghai Sunmi Technology Co.,Ltd.
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Telephone: +86 18501703215
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2.2. Manufacturer Information

Company Name: Shanghai Sunmi Technology Co.,Ltd.
Address /Post: Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Contact Person: Fang Lu
Contact Email fang.lu@sunmi.com
Telephone: +86 18501703215
Fax: /

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description Smart POS Terminal

Model Name T6721

FCC ID 2AH25P3MIX

Frequency Bands WCDMA Band 2/4/5

Antenna Integrated

Extreme vol. Limits 6.8V to 8.0V (nominal: 7.2V)

Condition of EUT as received No abnormality in appearance

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

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
/	/	/	/	/

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

3.3. Internal Identification of AE

AE ID*	Description	SN
AE1	dummy battery	---
AE2	RF cable	---

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

AE: ancillary equipment

3.4. General Description

The Equipment Under Test (EUT) is a model Smart POS Terminal with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the Client.

4. REFERENCE DOCUMENTS

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

Reference	Title	Version
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-21 Edition
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	10-1-21 Edition
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-21 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-21 Edition
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB971168 D01	Power Meas License Digital Systems	v03r01

5. LABORATORY ENVIRONMENT

Shielded room did not exceed following limits along the RF testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz>60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	>2 M
Ground system resistance	< 4

Fully-anechoic chamber did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M
Ground system resistance	< 4
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	F	Fail
	NA	Not applicable
	NM	Not measured

WCDMA Band II

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/24.232	A.1	P
2	Field Strength of Spurious Radiation	2.1053/24.238	A.2	P
3	Frequency Stability	2.1055/24.235	A.3	P
4	Occupied Bandwidth	2.1049/24.238	A.4	P
5	Emission Bandwidth	2.1049/24.238	A.5	P
6	Band Edge Compliance	2.1051/24.238	A.6	P
7	Conducted Spurious Emission	2.1051/24.238	A.7	P
8	Peak-to-Average Power Ratio	24.232/KDB971168 D01	A.8	P

WCDMA Band V

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/22.913	A.1	P
2	Field Strength of Spurious Radiation	2.1053/22.917	A.2	P
3	Frequency Stability	2.1055/22.355	A.3	P
4	Occupied Bandwidth	2.1049/22.917	A.4	P
5	Emission Bandwidth	2.1049/22.917	A.5	P
6	Band Edge Compliance	2.1051/22.917	A.6	P
7	Conducted Spurious Emission	2.1051/22.917	A.7	P
8	Peak-to-Average Power Ratio	KDB971168 D01	A.8	P

WCDMA Band IV

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	2.1046/27.50(d)	A.1	P
2	Field Strength of Spurious Radiation	2.1053/27.53(h)	A.2	P
3	Frequency Stability	2.1055/27.54	A.3	P
4	Occupied Bandwidth	2.1049/27.53(g)	A.4	P
5	Emission Bandwidth	2.1049/27.53(g)	A.5	P
6	Band Edge Compliance	2.1051/27.53(h)	A.6	P
7	Conducted Spurious Emission	2.1051/27.53(h)	A.7	P
8	Peak-to-Average Power Ratio	27.50(d) /KDB971168 D01	A.8	P

7. STATEMENT

The Smart POS Terminal, T6721, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant of T6721 for testing.

According to the declaration, reused all test data from No.I23N00836-RF UMTS. For detail information please check the declaration provided by the manufacturer.

Since the information of samples in this report is provided by the client, the laboratory is not responsible for the authenticity of sample information.

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.



8. TEST EQUIPMENTS UTILIZED

No.	Description	Type	Manufacture	Series Number	Cal Due Date
/	/	/	/	/	/

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 Conducted

A.1.2.1 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 band.

A.1.2.2 Measurement result

WCDMA Band II

A.1.2.2 Measurement result

QPSK

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band II)	9262	1852.4	23.3
	9400	1880.0	23.4
	9538	1907.6	23.4

16QAM

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band II)	9262	1852.4	22.6
	9400	1880.0	22.7
	9538	1907.6	22.6

WCDMA Band V
Measurement result
QPSK

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band V)	4132	826.4	23.6
	4183	836.6	23.5
	4233	846.6	23.4

16QAM

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band V)	4132	826.4	22.8
	4183	836.6	22.7
	4233	846.6	22.6

WCDMA Band IV
Measurement result
QPSK

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band IV)	1312	1712.4	23.3
	1412	1732.4	23.5
	1513	1752.6	23.2

16QAM

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band IV)	1312	1712.4	22.6
	1412	1732.4	22.7
	1513	1752.6	22.4

Note: Expanded measurement uncertainty is $U = 0.49\text{dB}$, $k = 1.96$

A.1.3 Radiated

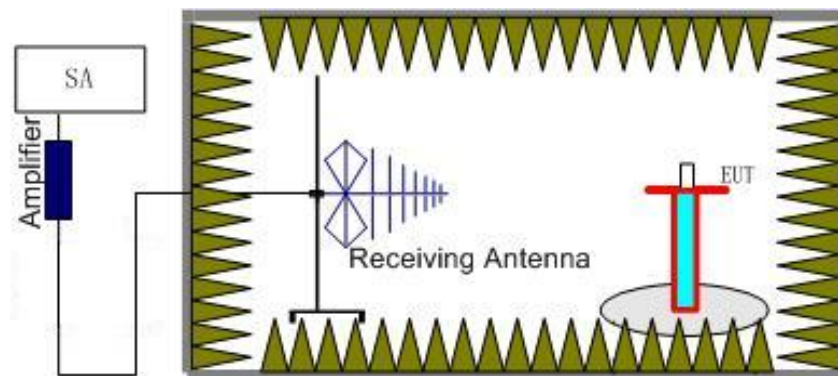
A.1.3.1 Description

This is the test for the maximum radiated power from the EUT.

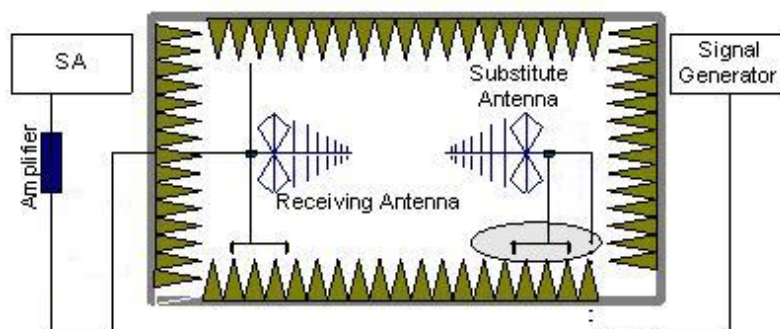
Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage." Rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

A.1.3.2 Method of Measurement

1. For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, EUT was placed on a 80 cm high non-conductive stand at a 3 meter test distance from the receive antenna. For radiated measurements performed at frequencies above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Receiving antenna was placed on the antenna mast 3 meters from the EUT. For emission measurements. The receiving antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. 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.

4. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna.

The cable loss (P_{cl}) ,the Substitution Antenna Gain(dBi) (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} - P_{Ag} - P_{cl} + G_a$$

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

WCDMA Band II-EIRP

Limits

	Burst Peak EIRP (dBm)
WCDMA Band II	≤33dBm (2W)

Measurement result

WCDMA Band II QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)+ P _{Ag} (dB)	Ga Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Polarization
1852.40	-14.73	-29.30	8.10	22.67	33.00	H
1880.00	-14.59	-29.40	8.10	22.91	33.00	H
1907.60	-14.30	-29.30	8.10	23.10	33.00	H

WCDMA Band II 16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)+ P _{Ag} (dB)	Ga Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Polarization
1852.40	-15.29	-29.30	8.10	22.11	33.00	H
1880.00	-15.01	-29.40	8.10	22.49	33.00	H
1907.60	-14.83	-29.30	8.10	22.57	33.00	H

Frequency: 1907.60MHz

Peak EIRP(dBm)= P_{Mea}(-14.30dBm)-(P_{cl}+P_{Ag})(-29.30dB)+Ga (8.10dB) =23.10dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

WCDMA Band V-ERP

Limits

	Burst Peak ERP (dBm)
WCDMA Band V	≤38.45dBm

Measurement result

WCDMA Band V QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)+ P _{Ag} (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Polarization
826.40	-9.56	-33.60	-0.84	2.15	21.05	38.45	V
836.60	-9.68	-33.50	-0.74	2.15	20.94	38.45	V
846.60	-9.50	-33.50	-0.73	2.15	21.11	38.45	V

WCDMA Band V 16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)+ P _{Ag} (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Polarization
826.40	-10.26	-33.60	-0.84	2.15	20.34	38.45	V
836.60	-10.35	-33.50	-0.74	2.15	20.26	38.45	V
846.60	-10.18	-33.50	-0.73	2.15	20.43	38.45	V

Frequency: 846.60MHz

Peak ERP(dBm)= P_{Mea}(-9.50dBm)-(P_{cl}+P_{Ag})(-33.50dB)+Ga (-0.73dB)-2.15dB=21.11dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

WCDMA Band IV-EIRP

Limits

	Burst Peak EIRP (dBm)
WCDMA Band IV	≤30.00dBm

Measurement result

WCDMA Band IV QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)+ P _{Ag} (dB)	Ga Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Polarization
1712.40	-15.13	-29.60	8.10	22.57	30.00	H
1732.60	-14.91	-29.50	8.10	22.69	30.00	H
1752.60	-14.93	-29.50	8.10	22.67	30.00	H

WCDMA Band IV 16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)+ P _{Ag} (dB)	Ga Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Polarization
1712.40	-15.97	-29.60	8.10	21.73	30.00	H
1732.60	-15.82	-29.50	8.10	21.78	30.00	H
1752.60	-15.85	-29.50	8.10	21.75	30.00	H

Frequency: 1732.60 MHz

Peak EIRP(dBm)= P_{Mea}(-14.91dBm)-(P_{cl}+P_{Ag})(-29.50dB)+Ga (8.10dB)=22.69dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.82dB(30MHz-3GHz)/3.06dB(3GHz-18GHz)/2.40dB(18GHz-40GHz), k = 2

Note: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.

A.2 FIELD STRENGTH OF SPURIOUS RADIATION

Reference

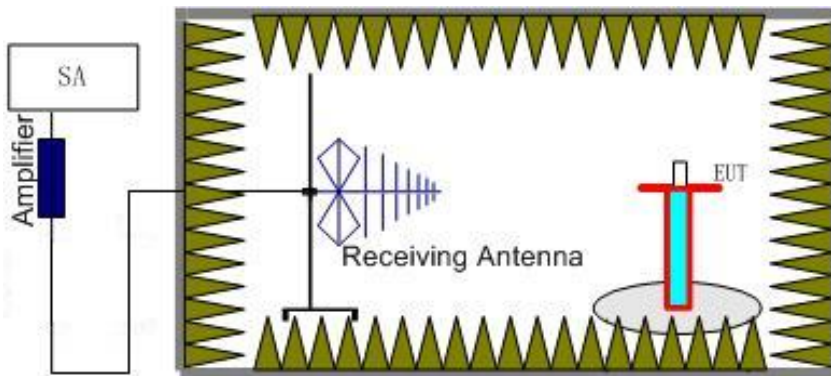
FCC: CFR 2.1053, 22.917, 24.238, 27.53(h).

A.2.1 Measurement Method

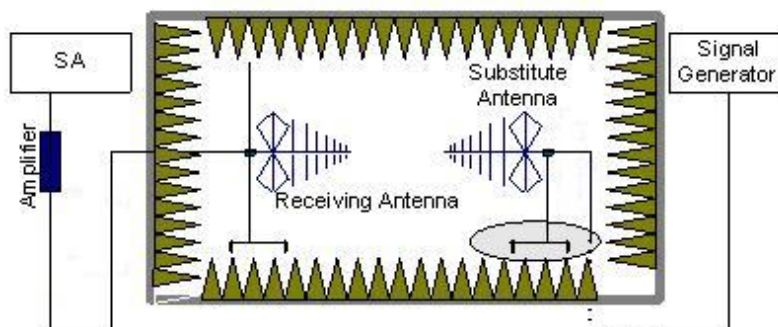
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set 1MHz as outlined in Part 24.238, Part 22.917 and Part 27.53. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II, WCDMA Band V and WCDMA Band IV.

The procedure of radiated spurious emissions is as follows:

1. For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, EUT was placed on a 80 cm high non-conductive stand at a 3 meter test distance from the receive antenna. For radiated measurements performed at frequencies above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Receiving antenna was placed on the antenna mast 3 meters from the EUT. For emission measurements. The receiving antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. 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.

4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain(dBi) (G_a) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} - P_{pl} + G_a$$

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

A.2.2 Measurement Limit

Part 24.238 , Part 22.917 and Part 27.50 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.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of WCDMA Band II (1852.4 MHz, 1880.0MHz and 1907.6MHz), WCDMA Band V(826.4MHz, 836.6MHz and 846.6MHz) and WCDMA Band IV (1712.4MHz, 1732.4MHz and 1752.6MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the WCDMA Band II,WCDMA Band V and WCDMA Band IV into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
WCDMA Band V	Low	30MHz-10GHz	Pass
	Middle	30MHz-10GHz	Pass
	High	30MHz-10GHz	Pass
WCDMA Band II	Low	30MHz-20GHz	Pass
	Middle	30MHz-20GHz	Pass
	High	30MHz-20GHz	Pass
WCDMA Band IV	Low	30MHz-20GHz	Pass
	Middle	30MHz-20GHz	Pass
	High	30MHz-20GHz	Pass

A.2.5 Sweep Table

Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
WCDMA Band V	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~10	1 MHz	3 MHz	3
WCDMA Band II	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	2
WCDMA Band IV	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	3

WCDMA BAND II Mode Channel 9662/1932.4MHz(QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16940.00	-45.43	2.90	16.50	-31.83	-13.00	H
17117.00	-42.41	2.90	14.50	-30.81	-13.00	H
17367.00	-43.10	3.20	14.50	-31.80	-13.00	H
17420.50	-41.32	2.90	14.50	-29.72	-13.00	H
17609.50	-38.69	3.30	12.80	-29.19	-13.00	H
17836.50	-39.91	3.60	12.80	-30.71	-13.00	H

WCDMA BAND II Mode Channel 9800/1960MHz(QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16969.00	-44.25	2.90	16.50	-30.65	-13.00	H
17183.00	-42.72	2.90	14.50	-31.12	-13.00	H
17236.00	-43.11	3.20	14.50	-31.81	-13.00	H
17524.50	-39.63	2.90	12.80	-29.73	-13.00	H
17614.00	-39.54	3.30	12.80	-30.04	-13.00	H
17827.50	-39.90	3.60	12.80	-30.70	-13.00	H

WCDMA BAND II Mode Channel 9938/1987.6MHz(QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16962.00	-44.55	2.90	16.50	-30.95	-13.00	H
17136.00	-43.56	2.90	14.50	-31.96	-13.00	H
17300.00	-42.66	3.20	14.50	-31.36	-13.00	H
17448.00	-41.25	2.90	14.50	-29.65	-13.00	H
17566.50	-38.80	3.30	12.80	-29.30	-13.00	H
17752.00	-39.89	3.60	12.80	-30.69	-13.00	H

WCDMA BAND II Mode Channel 9662/1932.4MHz(16QAM)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16939.50	-44.25	2.90	16.50	-30.65	-13.00	H
17124.00	-43.35	2.90	14.50	-31.75	-13.00	H
17299.50	-42.71	3.20	14.50	-31.41	-13.00	H
17466.00	-41.26	2.90	14.50	-29.66	-13.00	H
17529.00	-38.94	2.90	12.80	-29.04	-13.00	H
17838.50	-39.84	3.60	12.80	-30.64	-13.00	H

WCDMA BAND II Mode Channel 9800/1960MHz(16QAM)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16954.50	-45.08	2.90	16.50	-31.48	-13.00	H
17206.00	-43.35	2.90	14.50	-31.75	-13.00	H
17365.00	-42.55	3.20	14.50	-31.25	-13.00	H
17454.00	-41.00	2.90	14.50	-29.40	-13.00	H
17595.00	-39.45	3.30	12.80	-29.95	-13.00	H
17823.00	-39.90	3.60	12.80	-30.70	-13.00	H

WCDMA BAND II Mode Channel 9938/1987.6MHz(16QAM)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16991.00	-44.70	2.90	16.50	-31.10	-13.00	H
17207.50	-43.21	2.90	14.50	-31.61	-13.00	H
17247.50	-42.40	3.20	14.50	-31.10	-13.00	H
17458.50	-41.52	2.90	14.50	-29.92	-13.00	H
17597.00	-38.75	3.30	12.80	-29.25	-13.00	H
17825.00	-39.38	3.60	12.80	-30.18	-13.00	H

WCDMA BAND IV Mode Channel 1537/1712.4MHz(QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16932.50	-44.81	2.90	16.50	-31.21	-13.00	H
17186.00	-43.47	2.90	14.50	-31.87	-13.00	H
17297.50	-43.12	3.20	14.50	-31.82	-13.00	H
17500.00	-39.50	2.90	12.80	-29.60	-13.00	H
17627.00	-39.51	3.30	12.80	-30.01	-13.00	H
17783.50	-39.72	3.60	12.80	-30.52	-13.00	H

WCDMA BAND IV Mode Channel 1638/1732.6MHz(QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16946.25	-45.80	2.90	16.50	-32.20	-13.00	H
17190.62	-44.51	2.90	14.50	-32.91	-13.00	H
17345.62	-43.31	3.20	14.50	-32.01	-13.00	H
17418.75	-43.19	2.90	14.50	-31.59	-13.00	H
17633.12	-40.52	3.30	12.80	-31.02	-13.00	H
17782.50	-40.39	3.60	12.80	-31.19	-13.00	H

WCDMA BAND IV Mode Channel 1738/1752.6MHz(QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16992.00	-44.10	2.90	16.50	-30.50	-13.00	H
17179.00	-43.37	2.90	14.50	-31.77	-13.00	H
17279.50	-42.85	3.20	14.50	-31.55	-13.00	H
17458.50	-41.15	2.90	14.50	-29.55	-13.00	H
17645.50	-38.91	3.30	12.80	-29.41	-13.00	H
17771.00	-39.58	3.60	12.80	-30.38	-13.00	H

WCDMA BAND IV Mode Channel 1537/1712.4MHz(16QAM)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16942.50	-45.56	2.90	16.50	-31.96	-13.00	H
17107.50	-44.54	2.90	14.50	-32.94	-13.00	H
17351.25	-44.06	3.20	14.50	-32.76	-13.00	H
17448.75	-43.11	2.90	14.50	-31.51	-13.00	H
17543.75	-41.26	2.90	12.80	-31.36	-13.00	H
17821.25	-40.89	3.60	12.80	-31.69	-13.00	H

WCDMA BAND IV Mode Channel 1638/1732.6MHz(16QAM)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
17005.00	-44.03	2.90	14.50	-32.43	-13.00	H
17185.62	-44.89	2.90	14.50	-33.29	-13.00	H
17367.50	-43.30	3.20	14.50	-32.00	-13.00	H
17461.25	-42.87	2.90	14.50	-31.27	-13.00	H
17557.50	-41.13	2.90	12.80	-31.23	-13.00	H
17831.25	-41.00	3.60	12.80	-31.80	-13.00	H

WCDMA BAND IV Mode Channel 1738/1752.6MHz(16QAM)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit (dBm)	Polarization
16954.00	-44.77	2.90	16.50	-31.17	-13.00	H
17167.00	-43.07	2.90	14.50	-31.47	-13.00	H
17366.50	-43.09	3.20	14.50	-31.79	-13.00	H
17523.50	-40.22	2.90	12.80	-30.32	-13.00	H
17579.00	-38.67	3.30	12.80	-29.17	-13.00	H
17833.00	-39.72	3.60	12.80	-30.52	-13.00	H

WCDMA BAND V Mode Channel 4357/871.4MHz(QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit (dBm)	Polarization
2482.50	-51.13	0.90	9.80	-44.38	-13.00	H
9149.00	-51.19	2.10	11.60	-43.84	-13.00	H
9229.25	-50.64	2.10	11.60	-43.29	-13.00	H
9297.25	-50.62	2.00	11.60	-43.17	-13.00	H
9423.75	-51.87	2.10	11.60	-44.52	-13.00	H
9474.75	-51.46	2.10	11.60	-44.11	-13.00	V

WCDMA BAND V Mode Channel 4408/881.6MHz(QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit (dBm)	Polarization
9104.75	-52.01	2.20	11.60	-44.76	-13.00	H
9217.75	-51.40	2.10	11.60	-44.05	-13.00	H
9306.00	-51.38	2.00	11.60	-43.93	-13.00	H
9425.50	-51.71	2.10	11.60	-44.36	-13.00	H
9471.75	-51.20	2.10	11.60	-43.85	-13.00	V
9747.75	-50.92	2.20	11.20	-44.07	-13.00	H

WCDMA BAND V Mode Channel 4458/891.6MHz(QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit (dBm)	Polarization
2536.25	-48.32	0.90	10.70	-40.67	-13.00	H
9100.00	-51.89	2.20	11.60	-44.64	-13.00	H
9227.00	-51.11	2.10	11.60	-43.76	-13.00	H
9304.25	-50.93	2.00	11.60	-43.48	-13.00	H
9474.50	-51.54	2.10	11.60	-44.19	-13.00	V
9718.50	-51.14	2.20	11.20	-44.29	-13.00	H

WCDMA BAND V Mode Channel 4357/871.4MHz(16QAM)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit (dBm)	Polarization
8463.75	-52.17	1.80	11.30	-44.82	-13.00	H
9175.25	-51.54	2.10	11.60	-44.19	-13.00	V
9222.25	-51.60	2.10	11.60	-44.25	-13.00	H
9300.75	-50.52	2.00	11.60	-43.07	-13.00	H
9423.25	-52.10	2.10	11.60	-44.75	-13.00	H
9475.25	-51.34	2.10	11.60	-43.99	-13.00	V

WCDMA BAND V Mode Channel 4408/881.6MHz(16QAM)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit (dBm)	Polarization
8424.00	-52.20	1.80	11.30	-44.85	-13.00	H
9096.25	-51.95	2.20	11.60	-44.70	-13.00	H
9228.25	-50.69	2.10	11.60	-43.34	-13.00	H
9300.25	-51.36	2.00	11.60	-43.91	-13.00	H
9474.50	-51.65	2.10	11.60	-44.30	-13.00	V
9735.25	-51.03	2.20	11.20	-44.18	-13.00	H

WCDMA BAND V Mode Channel 4458/891.6MHz(16QAM)

Frequency(MHz)	P _{Mea} (dBm)	Path loss	Antenna Gain(dBi)	Peak ERP(dBm)	Limit (dBm)	Polarization
2537.50	-47.80	0.90	10.70	-40.15	-13.00	H
9152.50	-51.83	2.10	11.60	-44.48	-13.00	H
9221.50	-51.48	2.10	11.60	-44.13	-13.00	H
9303.00	-51.25	2.00	11.60	-43.80	-13.00	H
9476.25	-51.75	2.10	11.60	-44.40	-13.00	V
9688.00	-51.25	2.20	11.20	-44.40	-13.00	H

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.82dB(30MHz-3GHz)/3.06dB(3GHz-18GHz)/2.40dB(18GHz-40GHz), k = 2

A.3 FREQUENCY STABILITY

A.3.1 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 CMW500

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 CMW500 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. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments e-measuring 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 CMW500 and in a simulated call on the center 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 increments 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.3.2 Measurement results

WCDMA Band II

Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	7.2	1850.060	1909.940		
50				0.82	0.0009
40				-0.54	0.0006
30				0.69	0.0007
10				0.09	0.0001
0				-0.40	0.0004
-10				-0.94	0.0010
-20				0.23	0.0002
-30				-0.86	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
6.8	20	1850.060	1909.940	0.42	0.0004
8.0				0.39	0.0004

WCDMA Band IV

Frequency Error vs Voltage-QPSK

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	7.2	1710.060	1754.950		
50				0.09	0.0001
40				0.31	0.0004
30				-0.18	0.0002
10				0.18	0.0002
0				0.45	0.0005
-10				0.14	0.0002
-20				0.55	0.0006
-30				-2.00	0.0023

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
6.8	20	1710.060	1754.950	-0.59	0.0007
8.0				-0.75	0.0009

WCDMA Band V
Frequency Error vs Voltage-QPSK

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	7.2	824.060	848.930		
50				-1.10	0.0026
40				0.17	0.0004
30				-0.34	0.0008
10				-0.40	0.0010
0				-0.55	0.0013
-10				-0.29	0.0007
-20				-1.05	0.0025
-30				-0.50	0.0012

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
6.8	20	824.060	848.930	-0.69	0.0016
8.0				-0.73	0.0017

Expanded measurement uncertainty is 10Hz, k = 2

A.4 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:

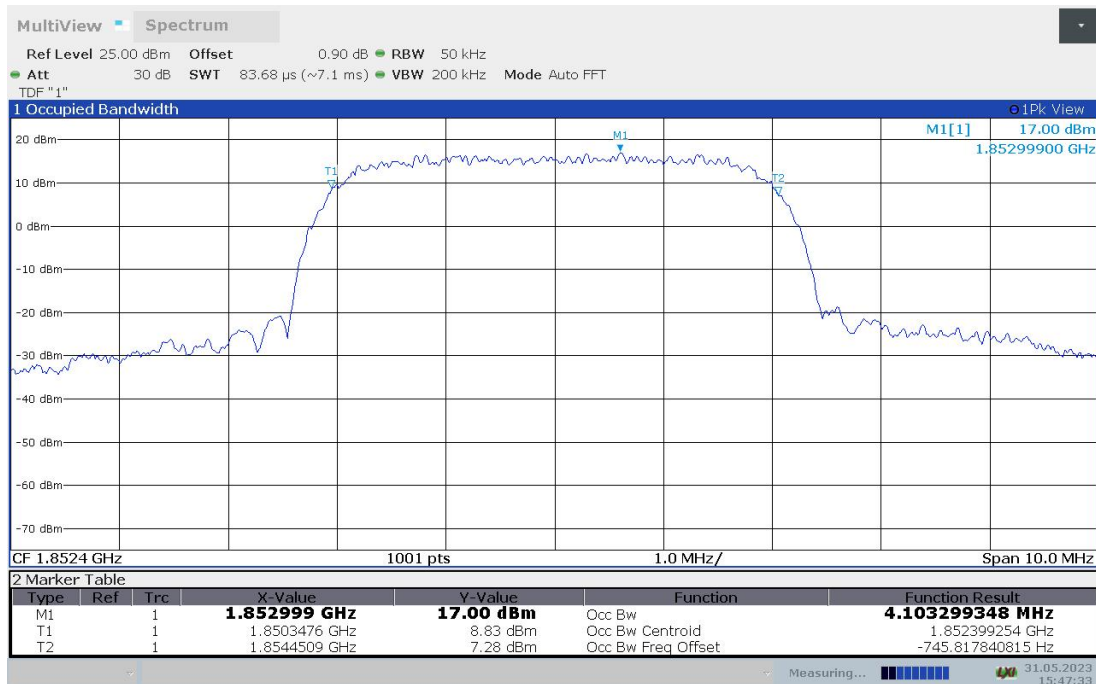
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range 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 2 (99% BW)-QPSK

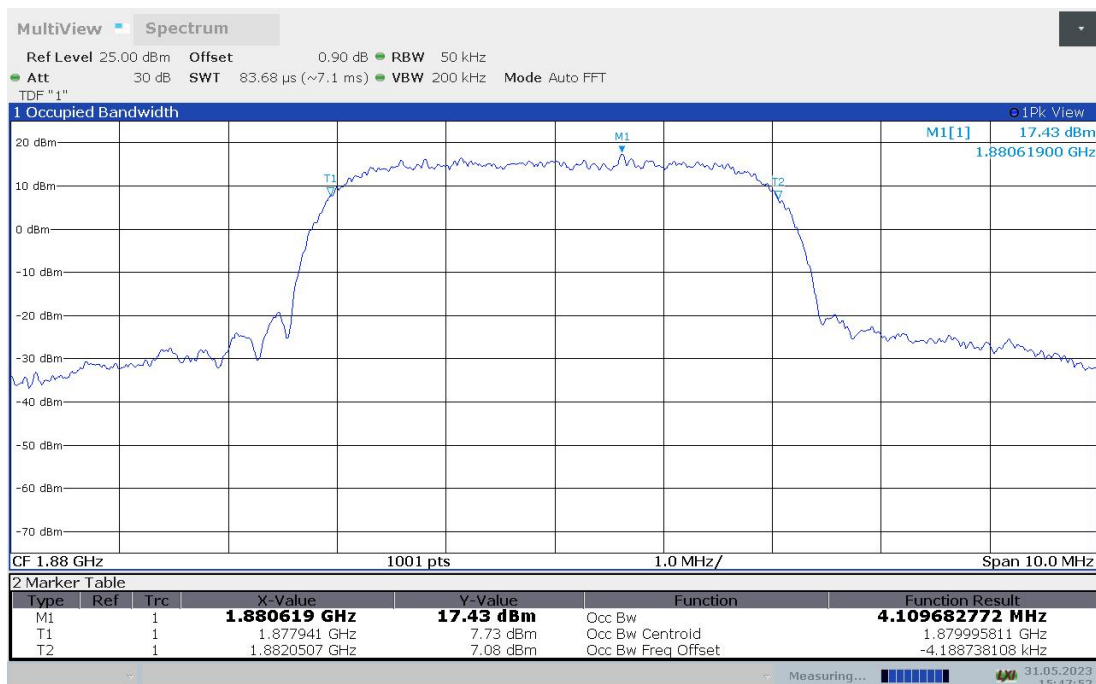
Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)
1852.4	4.103
1880	4.110
1907.6	4.104

WCDMA Band 2 (99% BW)

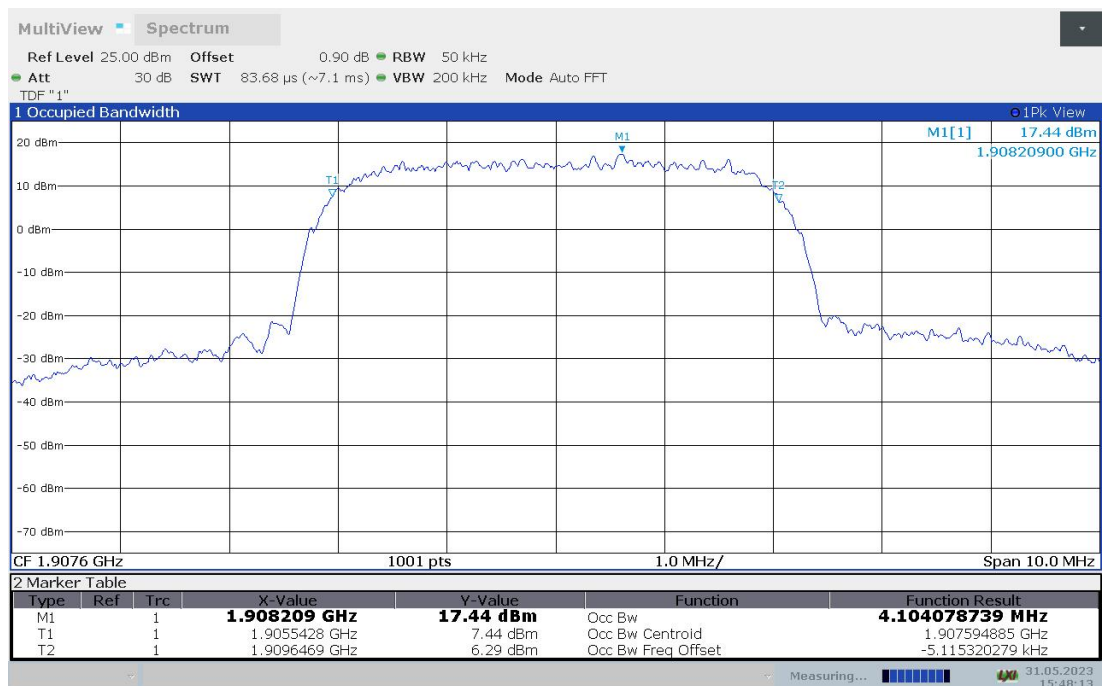
Channel 9262-Occupied Bandwidth (99% BW)



Channel 9400-Occupied Bandwidth (99% BW)



Channel 9538-Occupied Bandwidth (99% BW)

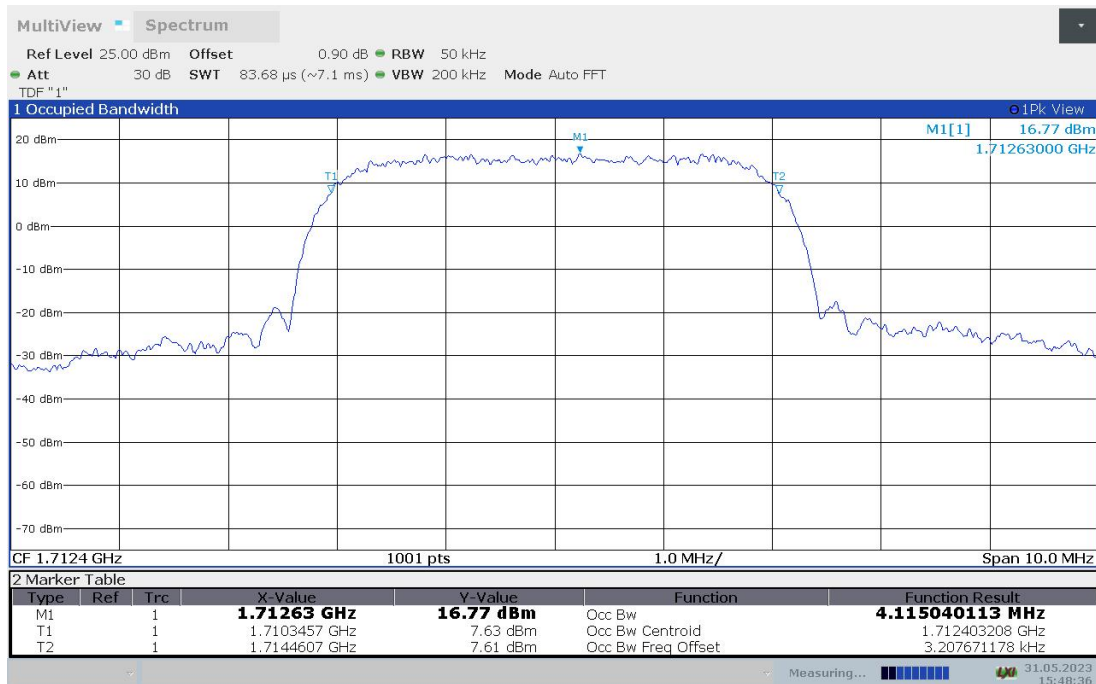


WCDMA Band 4 (99% BW)-QPSK

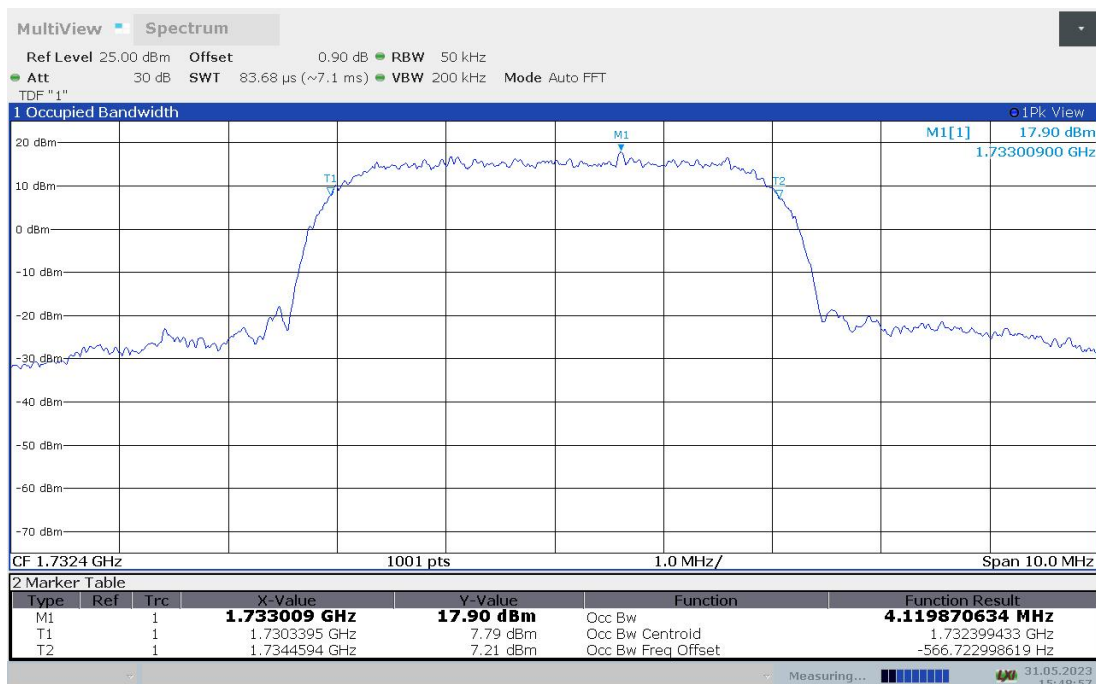
Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)
1712.4	4.115
1732.4	4.120
1752.6	4.120

WCDMA Band 4 (99% BW)

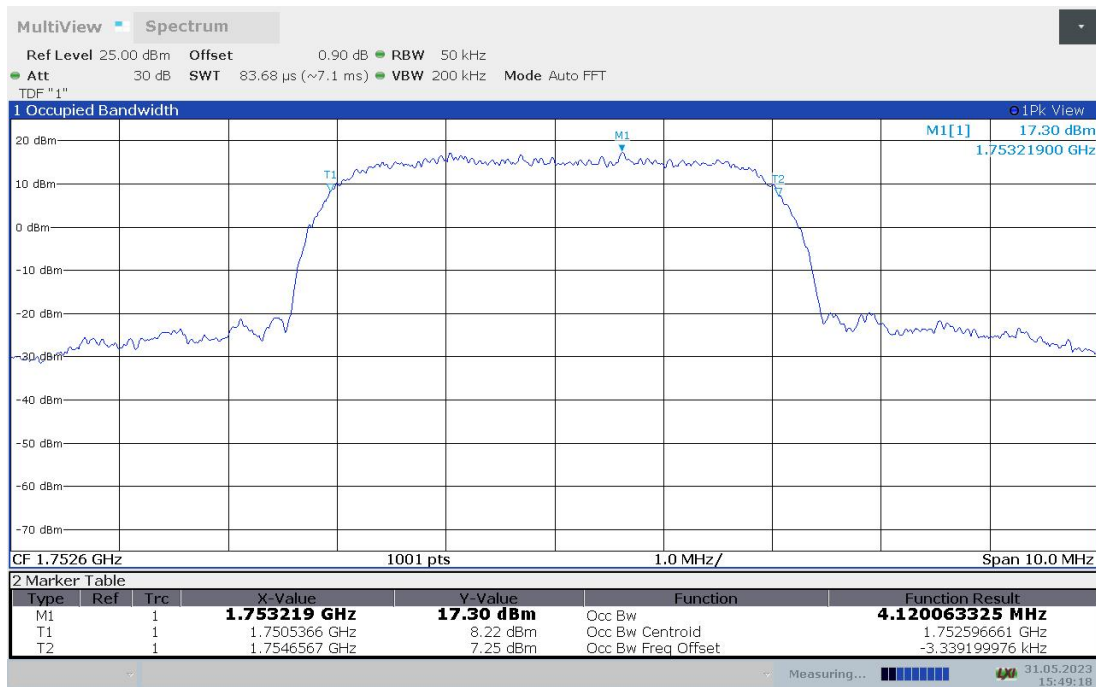
Channel 1312-Occupied Bandwidth (99% BW)



Channel 1412-Occupied Bandwidth (99% BW)



Channel 1513-Occupied Bandwidth (99% BW)

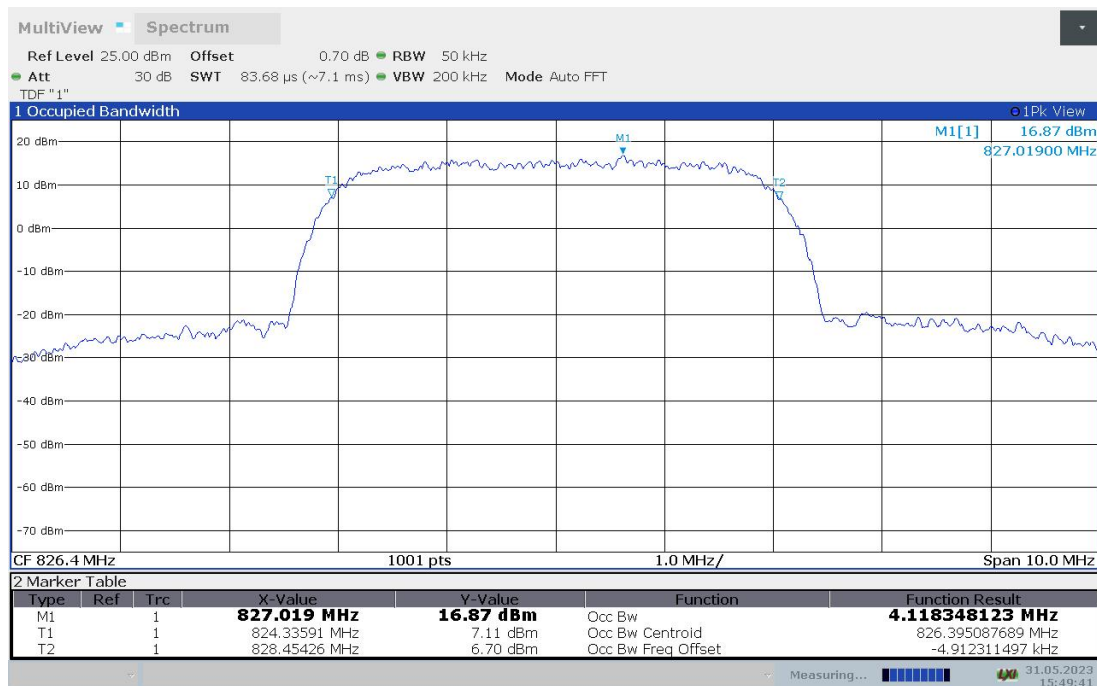


WCDMA Band 5 (99% BW)-QPSK

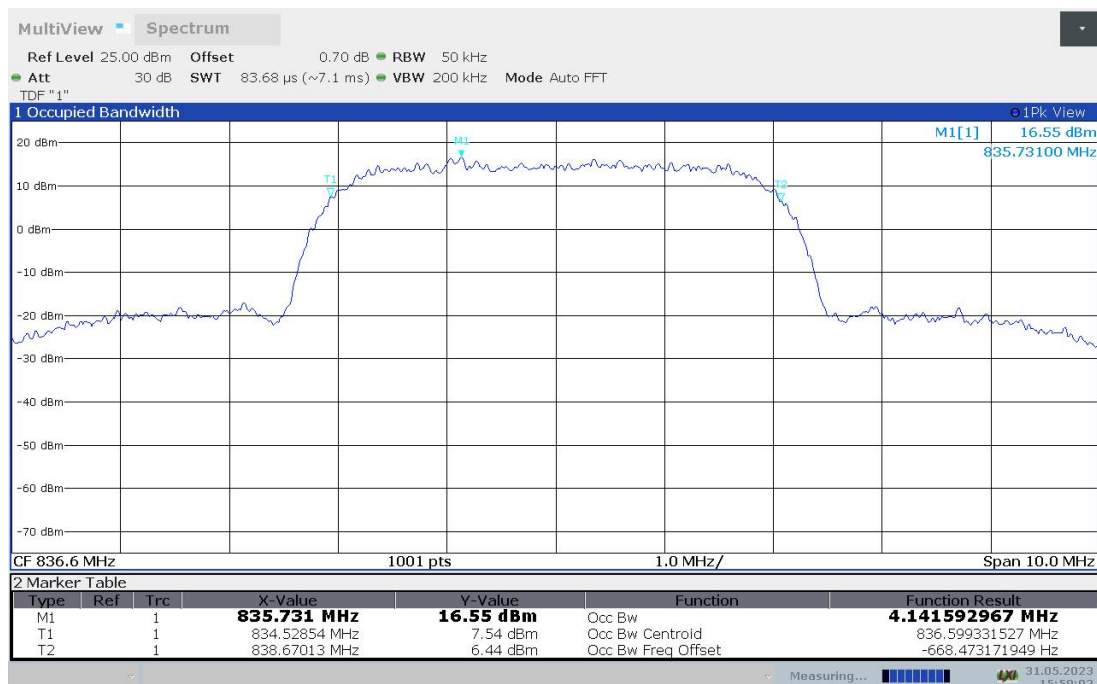
Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)
826.4	4.118
836.6	4.142
846.6	4.126

WCDMA Band 5 (99% BW)

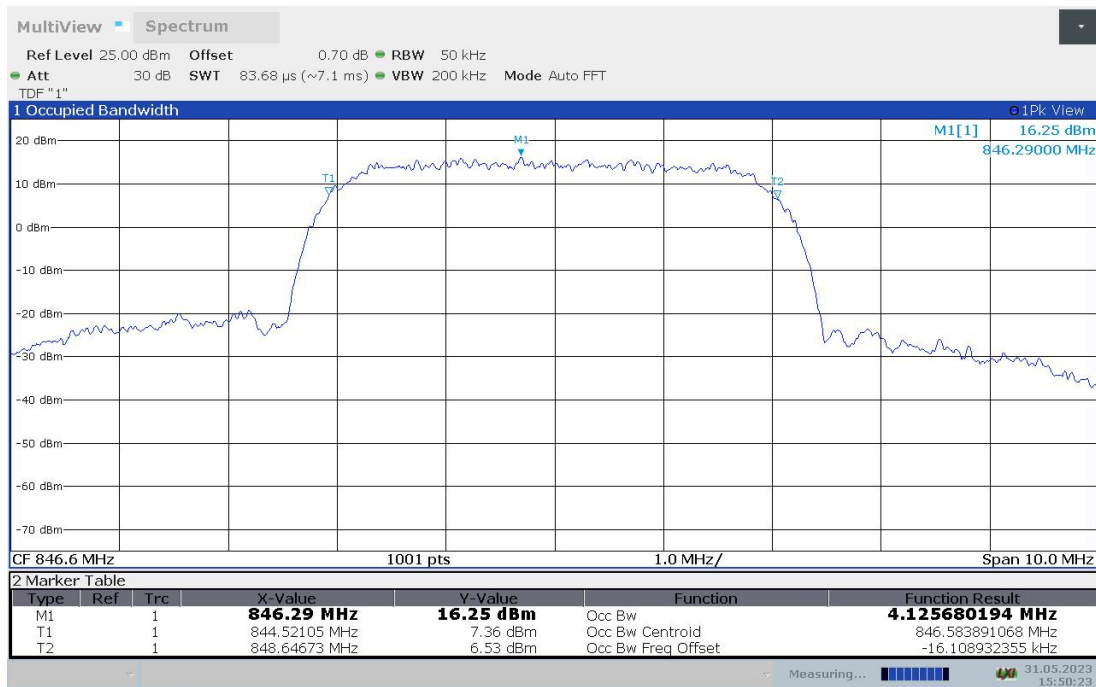
Channel 4132-Occupied Bandwidth (99% BW)



Channel 4183-Occupied Bandwidth (99% BW)



Channel 4233-Occupied Bandwidth (99% BW)



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

A.5 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. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

- 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.
- The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- 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.
- 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.
- Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

WCDMA Band 2 (-26dBc)-QPSK

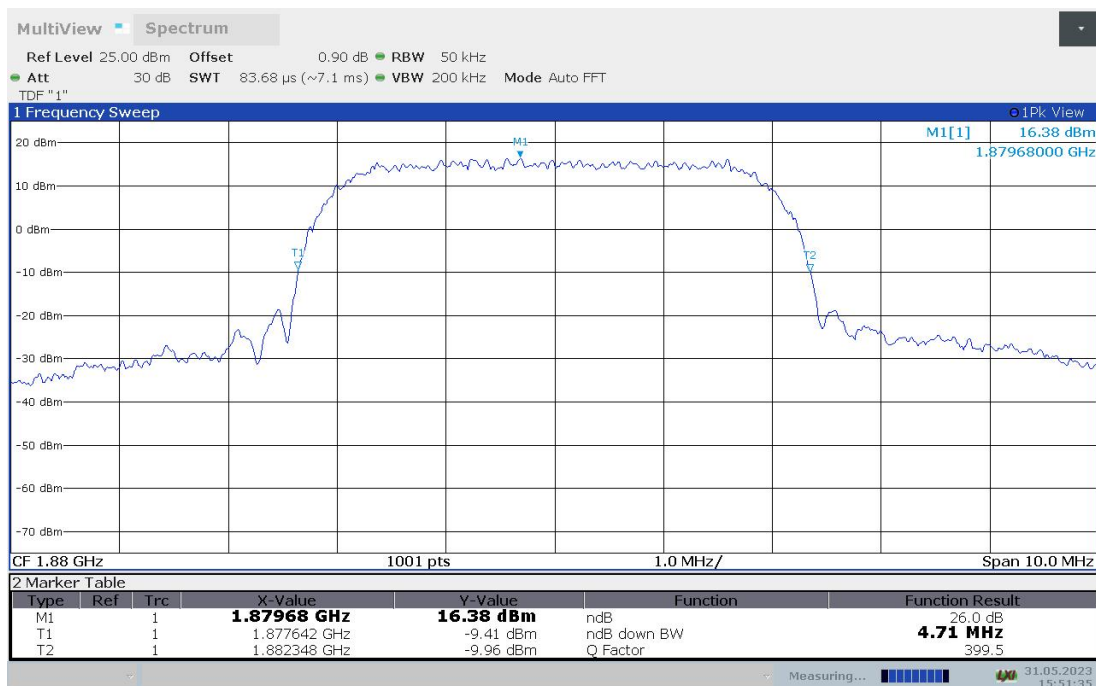
Frequency (MHz)	Emission Bandwidth (-26dBc)(MHz)
1852.4	4.715
1880	4.705
1907.6	4.685

WCDMA Band 2 (-26dBc)

Channel 9262-Emission Bandwidth (-26dBc BW)



Channel 9400-Emission Bandwidth (-26dBc BW)



Channel 9538-Emission Bandwidth (-26dBc BW)

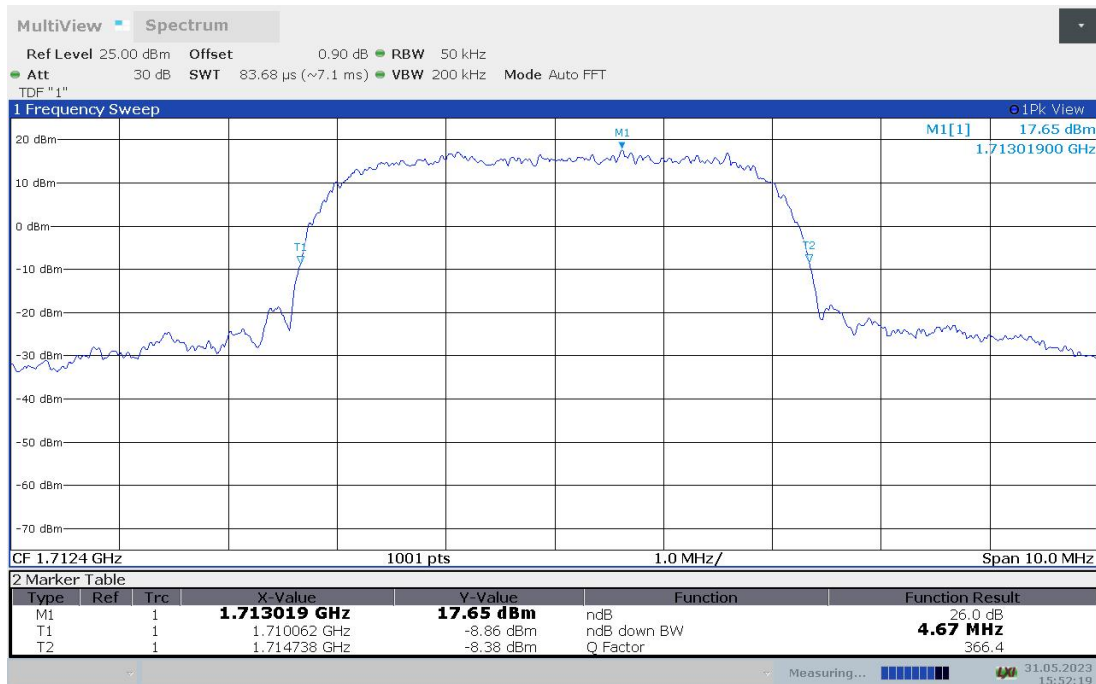


WCDMA Band 4 (-26dBc)-QPSK

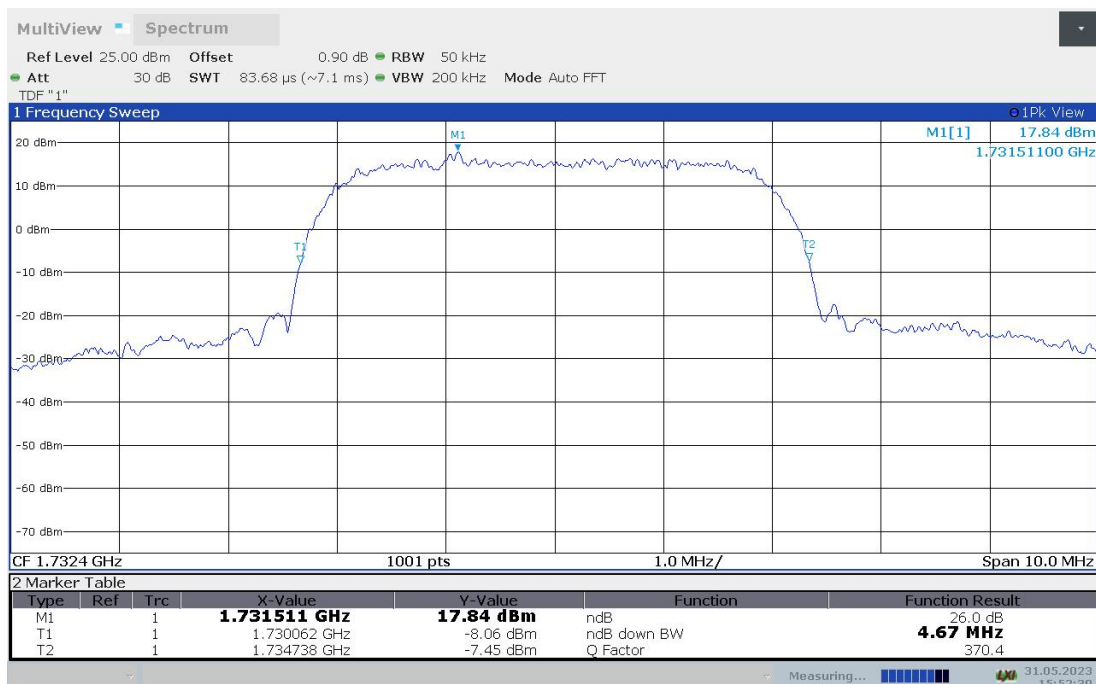
Frequency (MHz)	Emission Bandwidth (-26dBc)(MHz)
1712.4	4.675
1732.4	4.675
1752.6	4.705

WCDMA Band 4 (-26dBc)

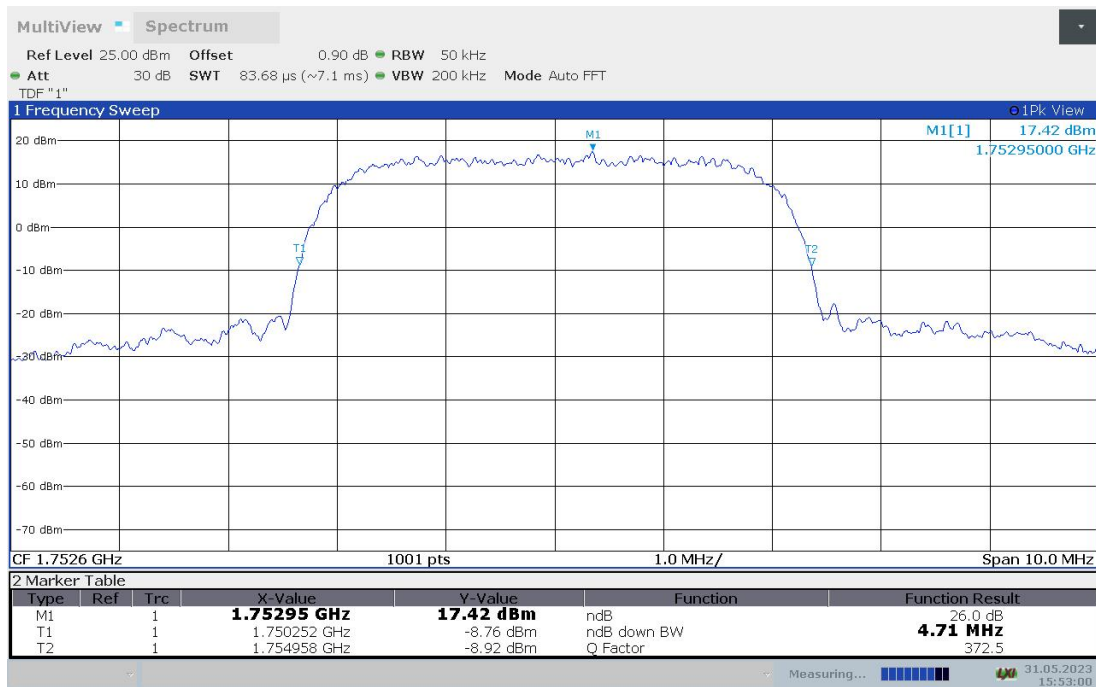
Channel 1312-Emission Bandwidth (-26dBc BW)



Channel 1412-Emission Bandwidth (-26dBc BW)



Channel 1513-Emission Bandwidth (-26dBc BW)



WCDMA Band 5 (-26dBc)-QPSK

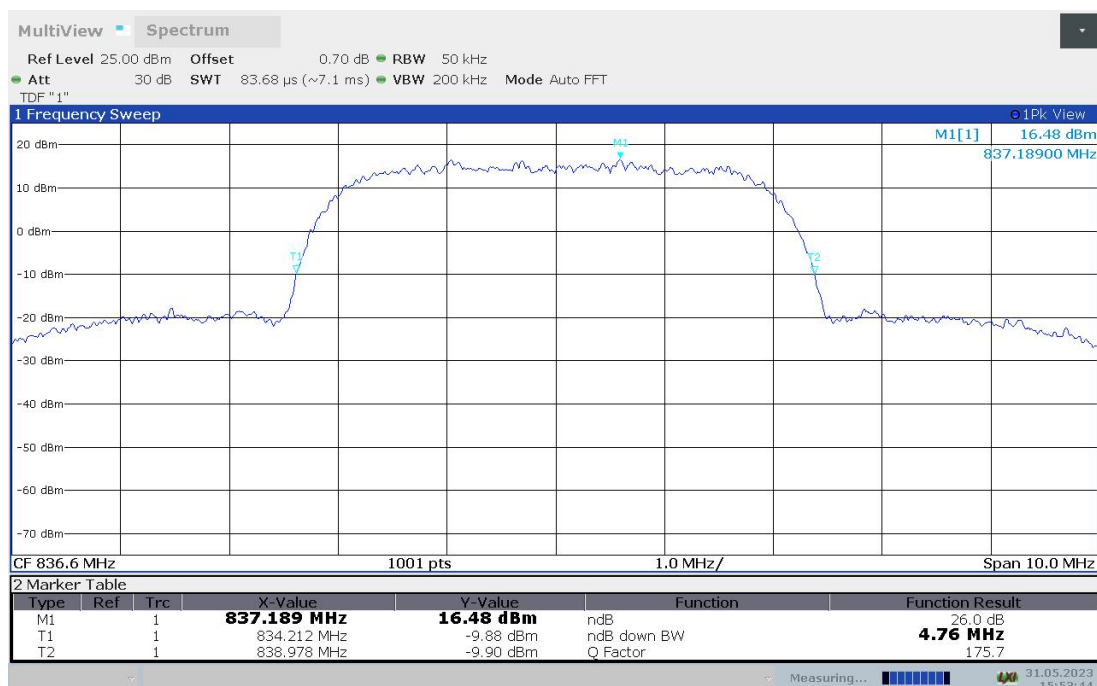
Frequency (MHz)	Emission Bandwidth (-26dBc)(MHz)
826.4	4.695
836.6	4.765
846.6	4.715

WCDMA Band 5 (-26dBc)

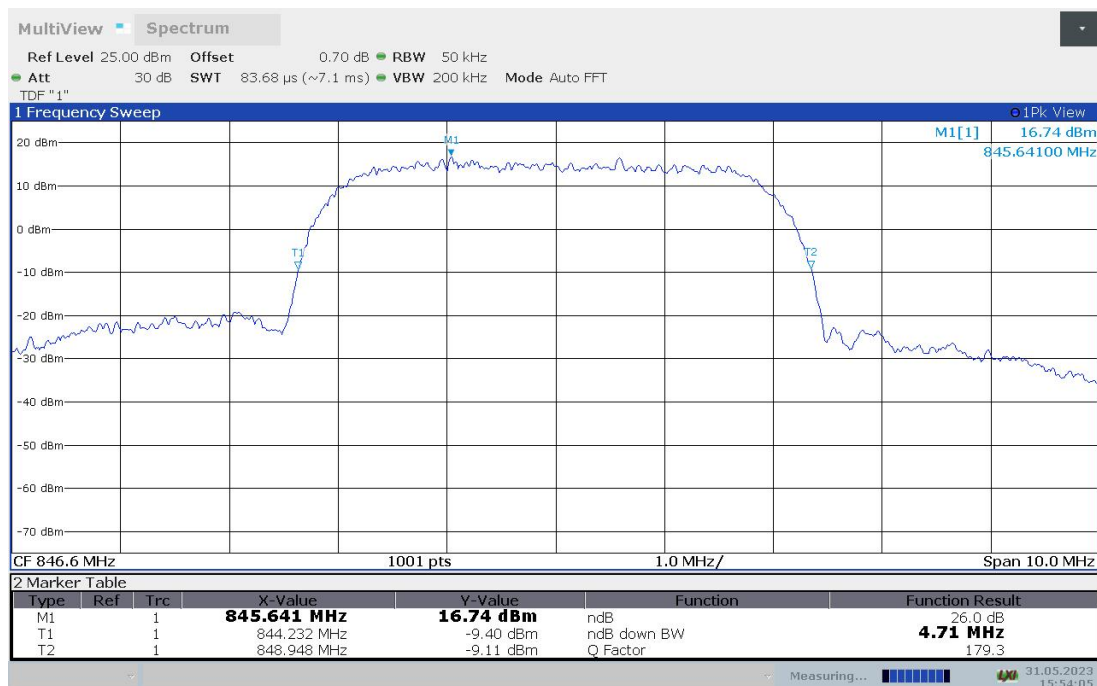
Channel 4132-Emission Bandwidth (-26dBc BW)



Channel 4183-Emission Bandwidth (-26dBc BW)



Channel 4233-Emission Bandwidth (-26dBc BW)



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

A.6 BAND EDGE COMPLIANCE

A.6.1 Measurement limit

Part 22.917 and Part 24.238 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.

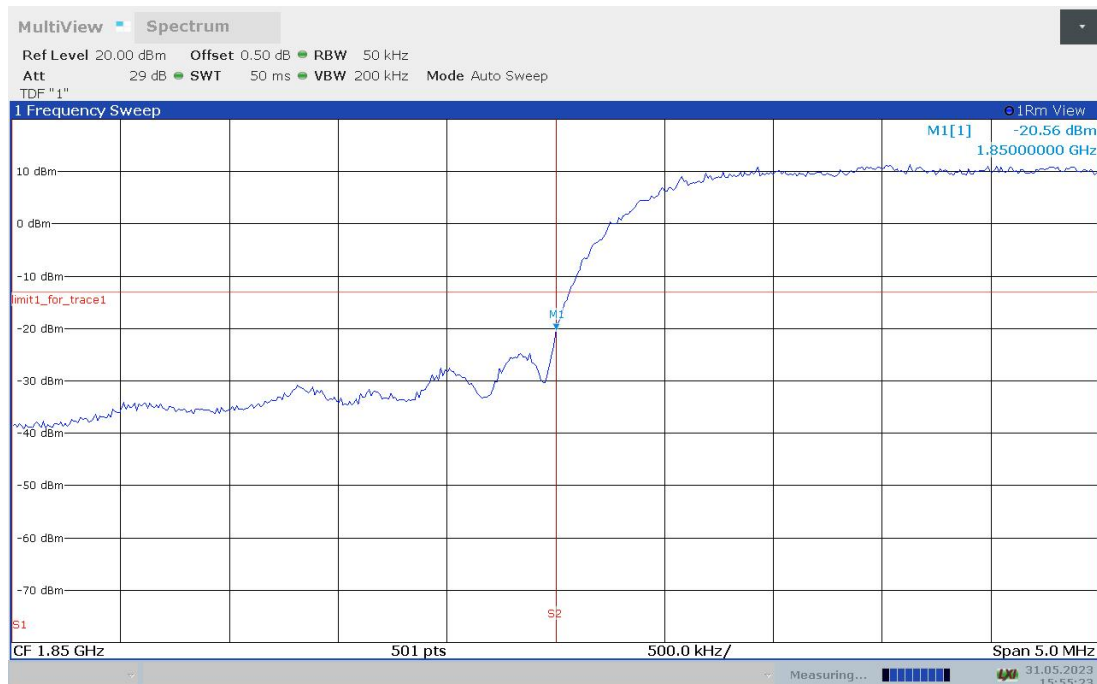
According to KDB 971168, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the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

A.6.2 Measurement result

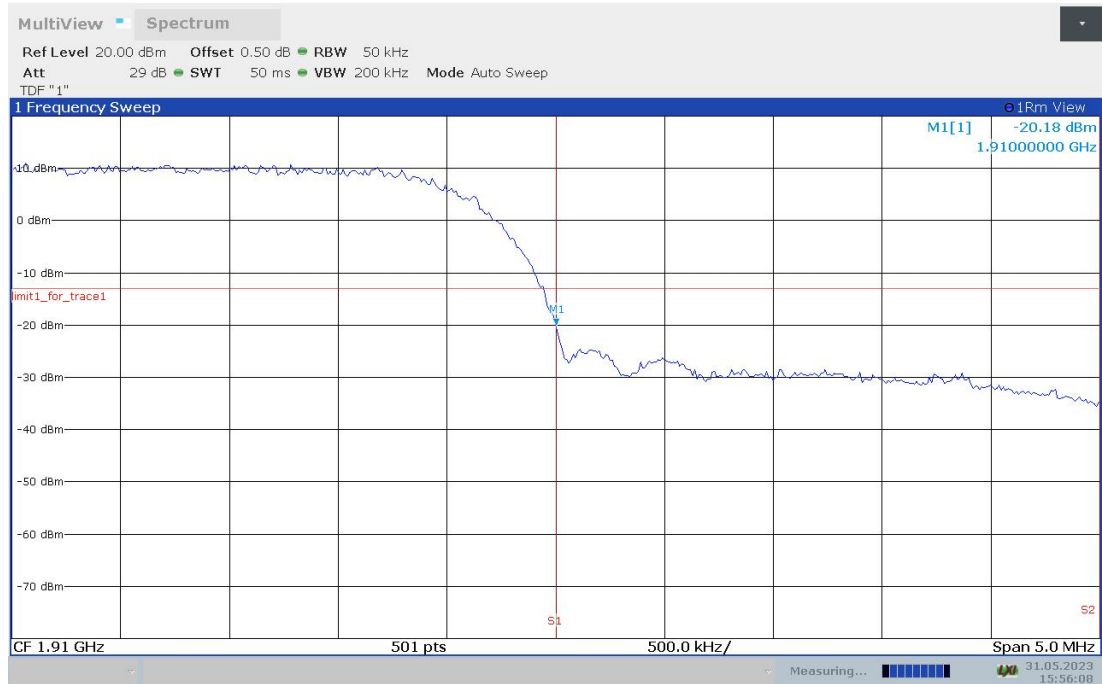
Only worst case result is given below

WCDMA Band II

LOW BAND EDGE BLOCK-A-Channel 9262

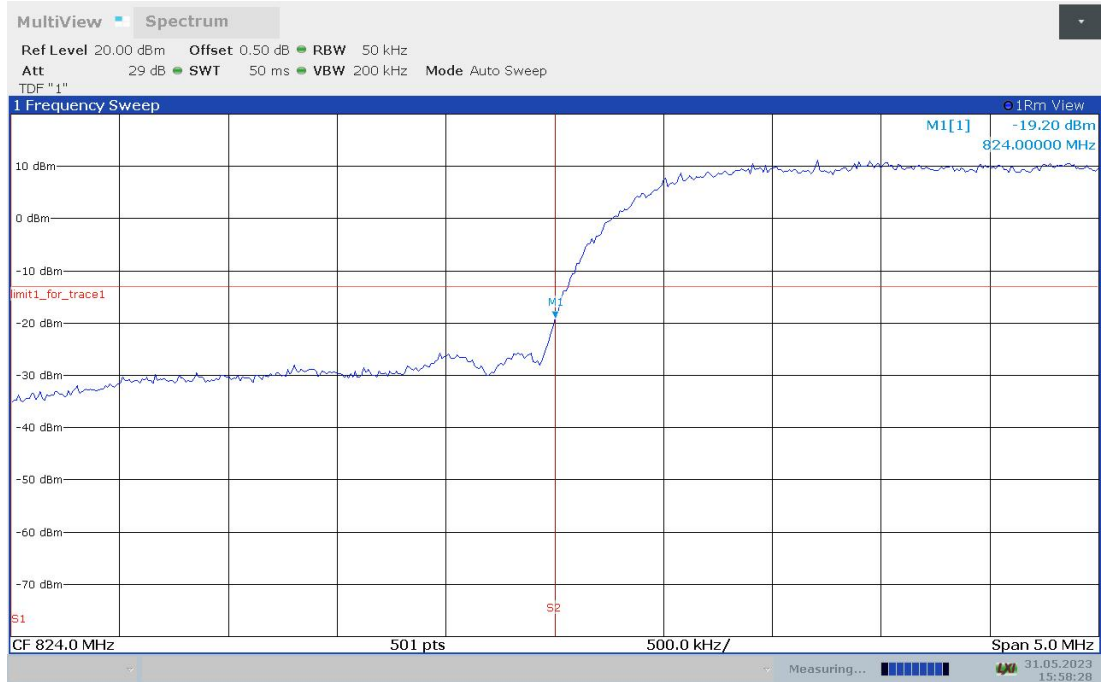


HIGH BAND EDGE BLOCK-C-Channel 9538

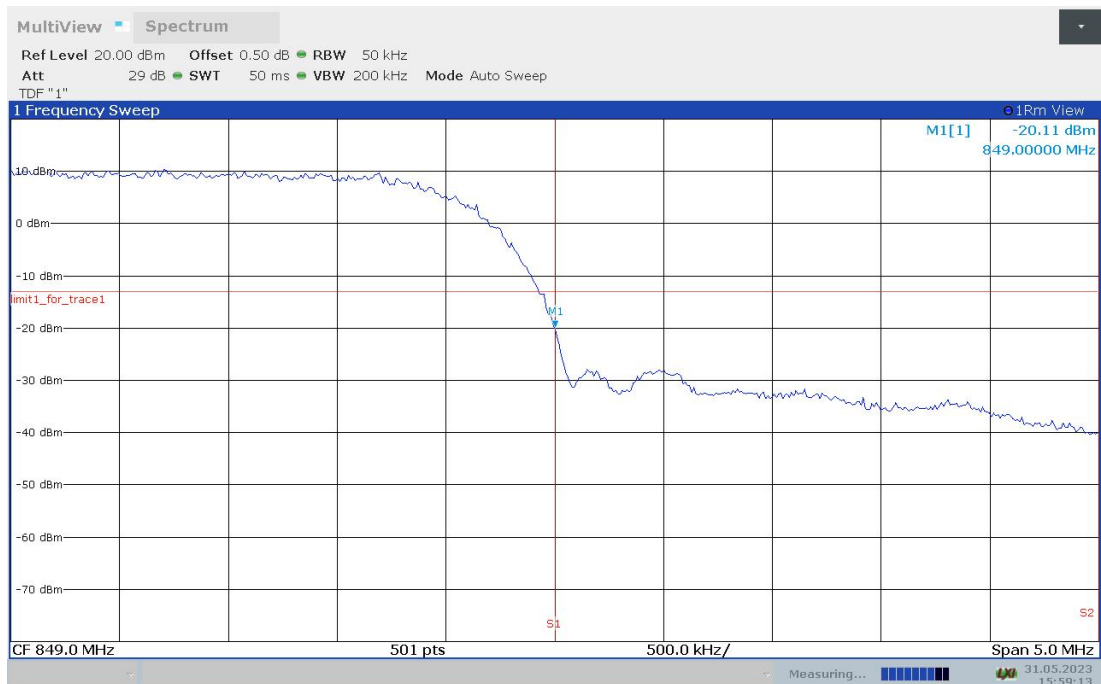


WCDMA Band V

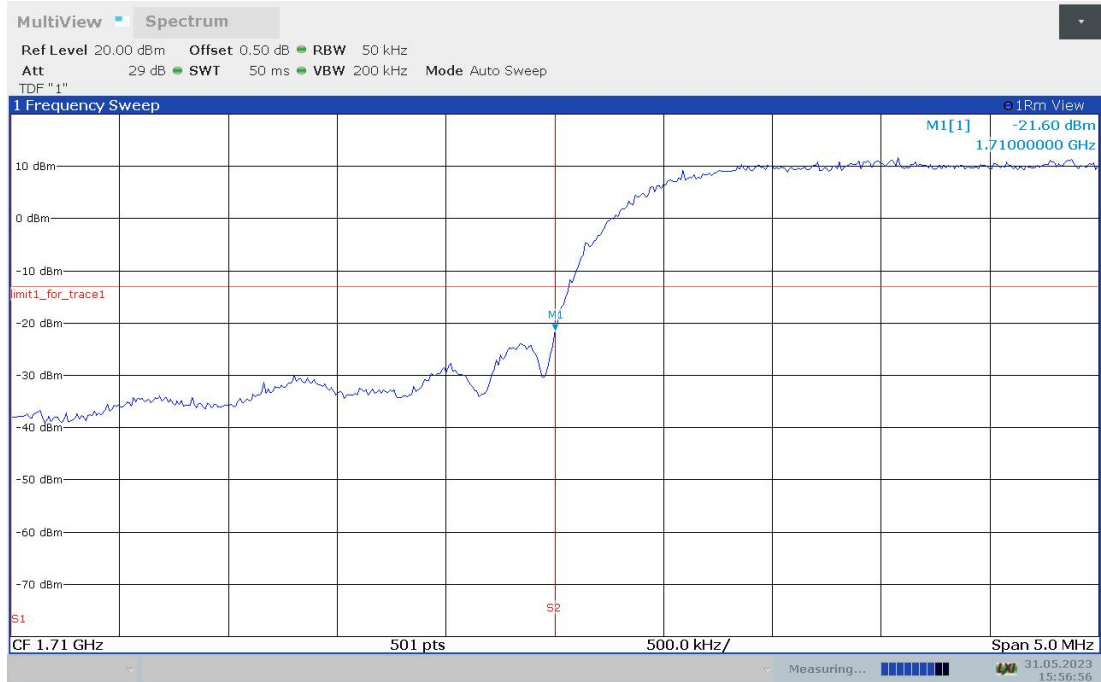
LOW BAND EDGE BLOCK-A-Channel 4132



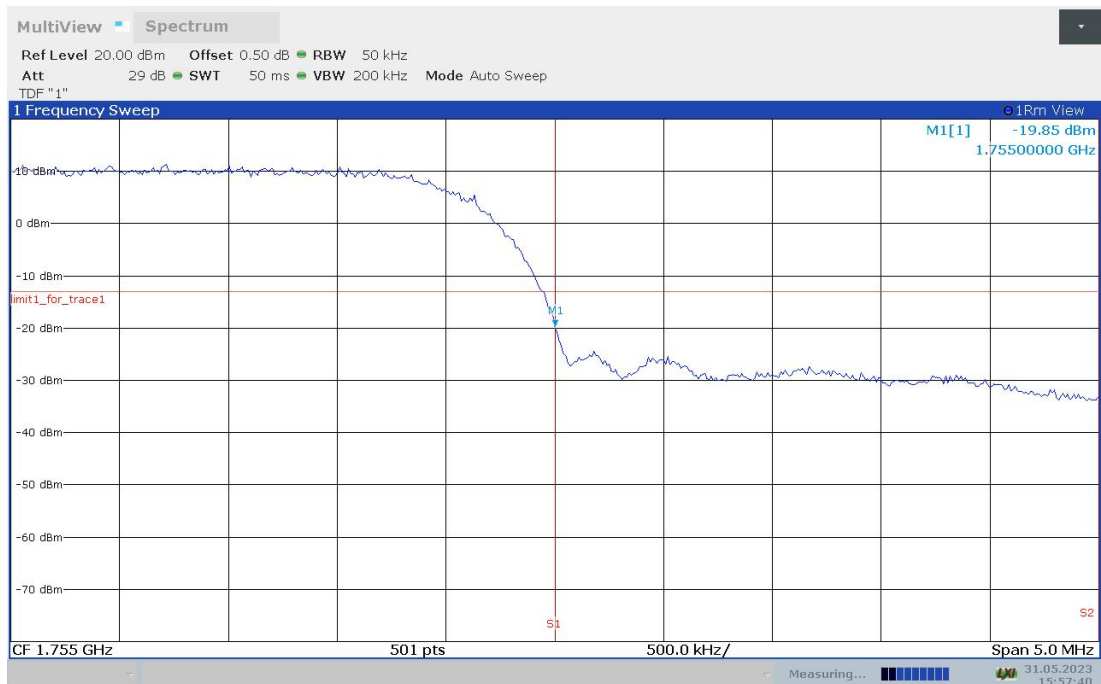
HIGH BAND EDGE BLOCK-C-Channel 4233



WCDMA Band IV LOW BAND EDGE BLOCK-A -Channel 1312



HIGH BAND EDGE BLOCK-C-Channel 1513



Note: Expanded measurement uncertainty is $U = 0.49 \text{ dB}(100\text{KHz}-2\text{GHz})/1.21 \text{ dB} (2\text{GHz}-26.5\text{GHz}), k = 1.96$

A.7 CONDUCTED SPURIOUS EMISSION

A.7.1 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 $2 \times \text{span} / \text{RBW}$

A.7.2 Measurement Limit

Part 22.917 and Part 24.238 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.7.3 Measurement result

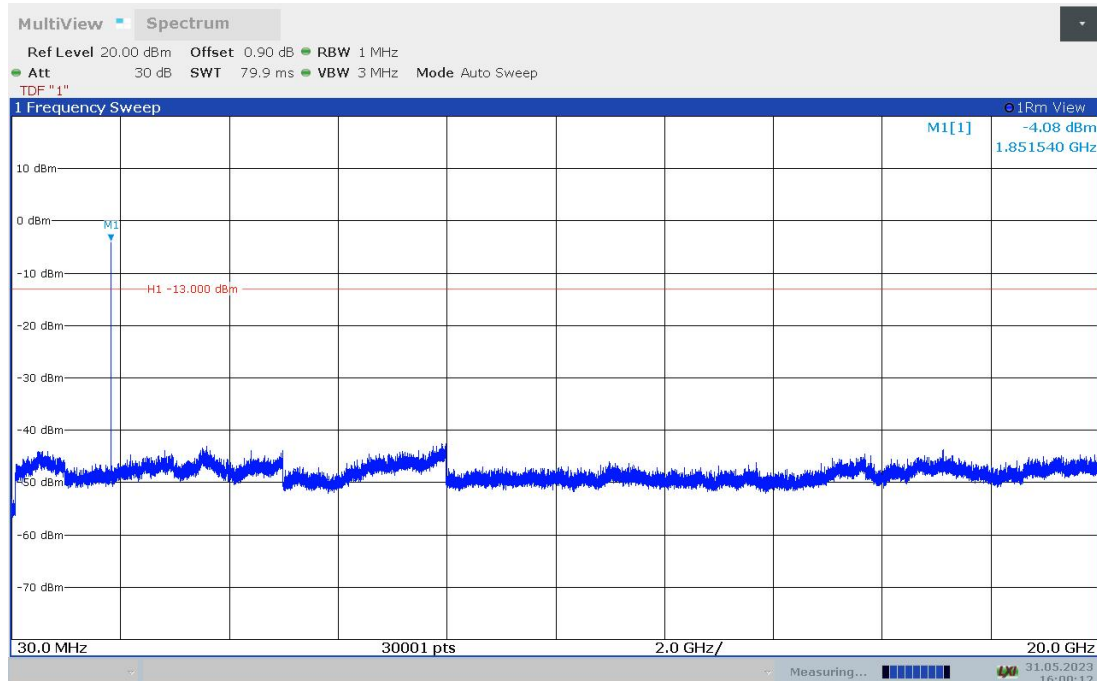
Only worst case result is given below

WCDMA Band II

Channel 9262: 30MHz –19.1GHz

Spurious emission limit –13dBm.

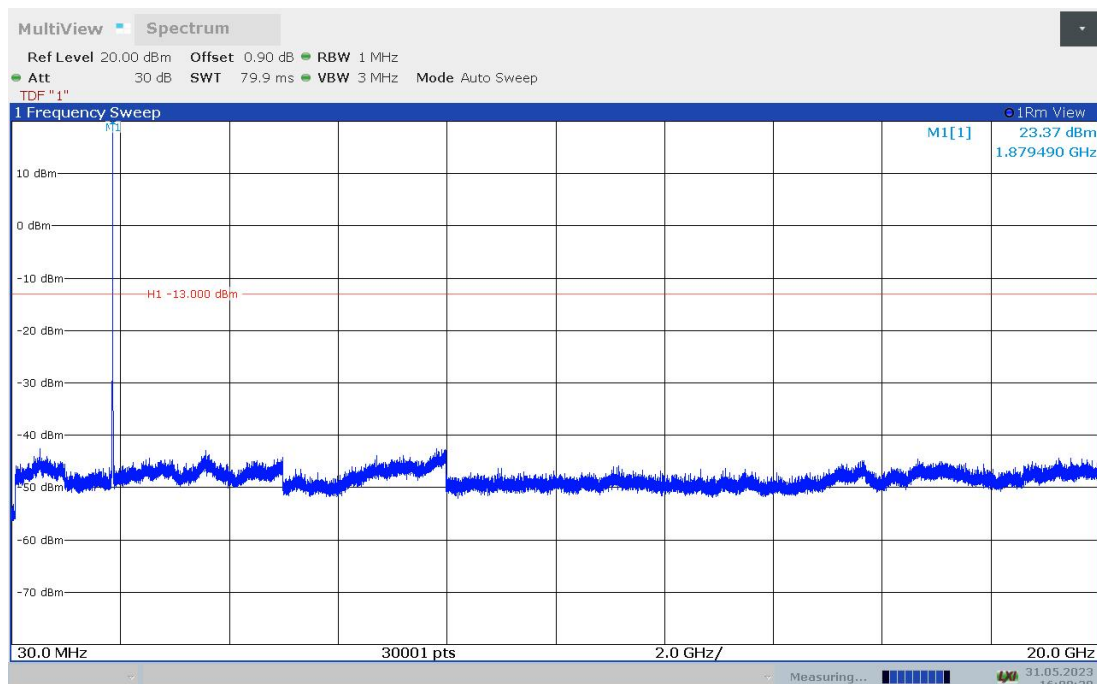
NOTE: peak above the limit line is the carrier frequency.



Channel 9400: 30MHz –19.1GHz

Spurious emission limit –13dBm.

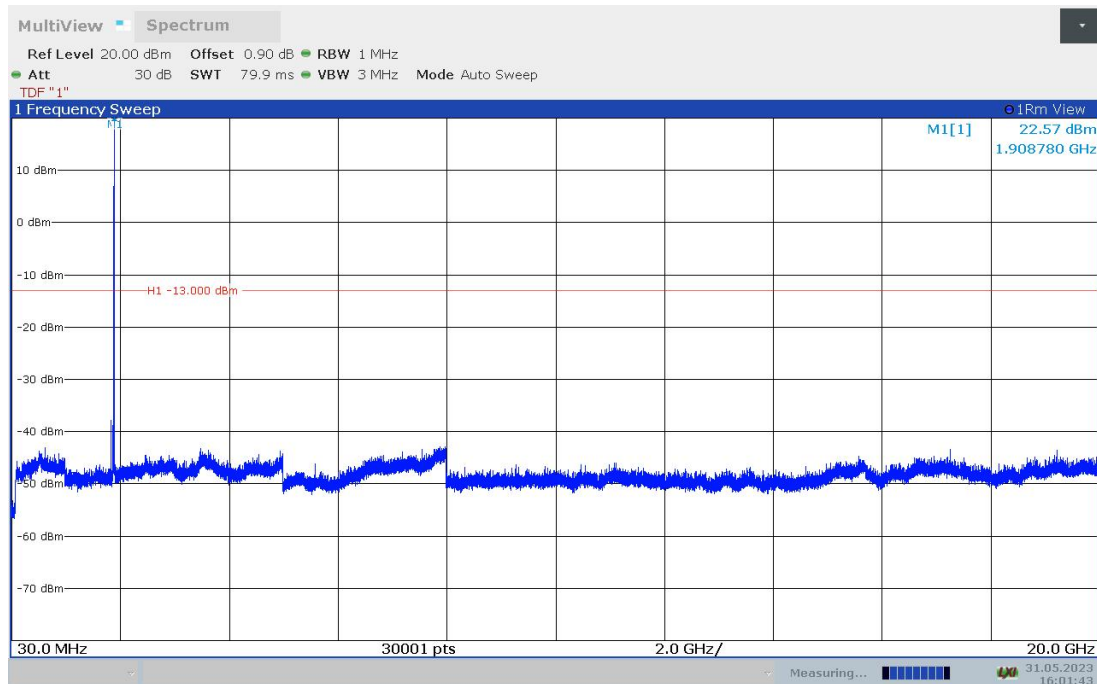
NOTE: peak above the limit line is the carrier frequency.



Channel 9538: 30MHz –19.1GHz

Spurious emission limit –13dBm.

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

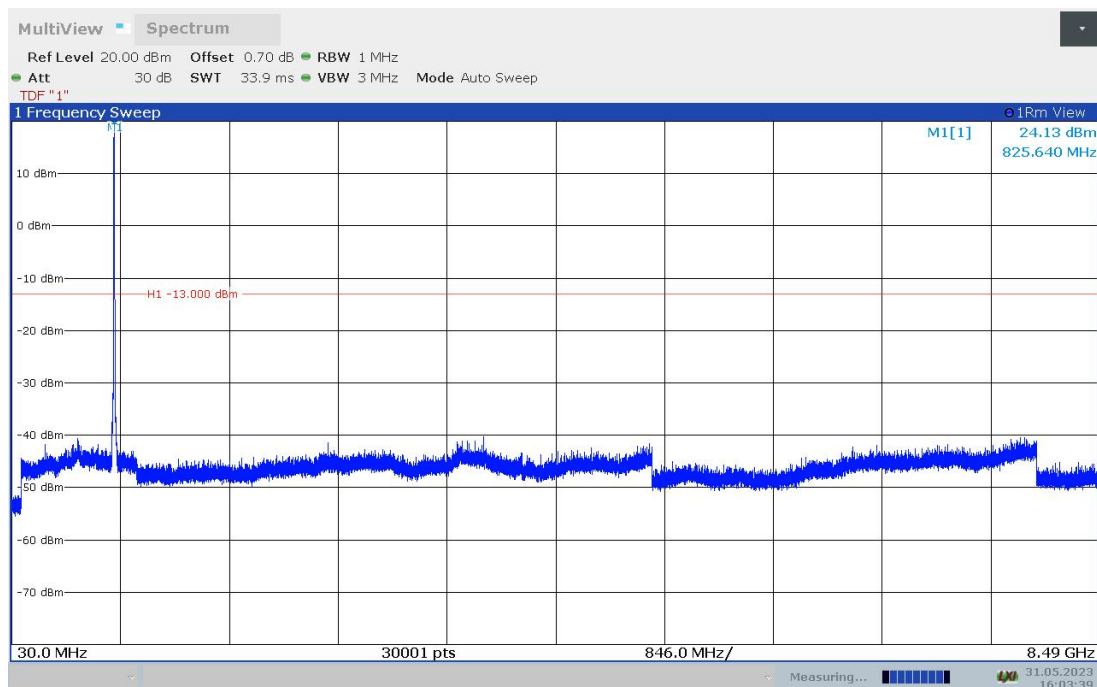


WCDMA Band V

Channel 4132: 30MHz –8.49GHz

Spurious emission limit –13dBm.

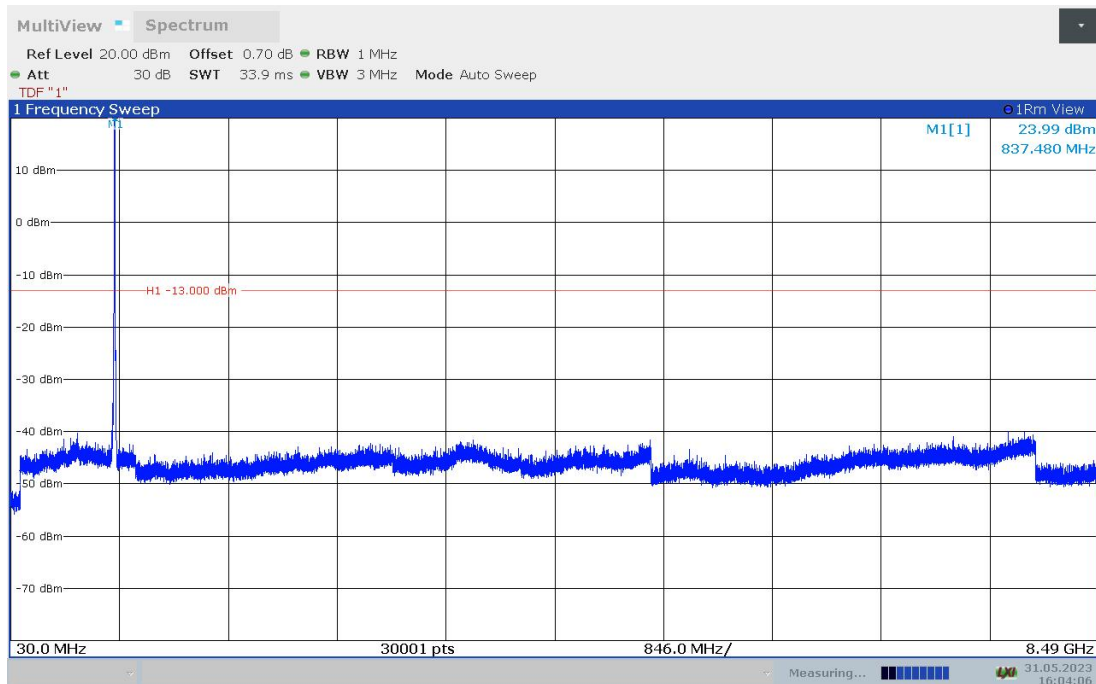
NOTE: peak above the limit line is the carrier frequency.



Channel 4183: 30MHz –8.49GHz

Spurious emission limit –13dBm.

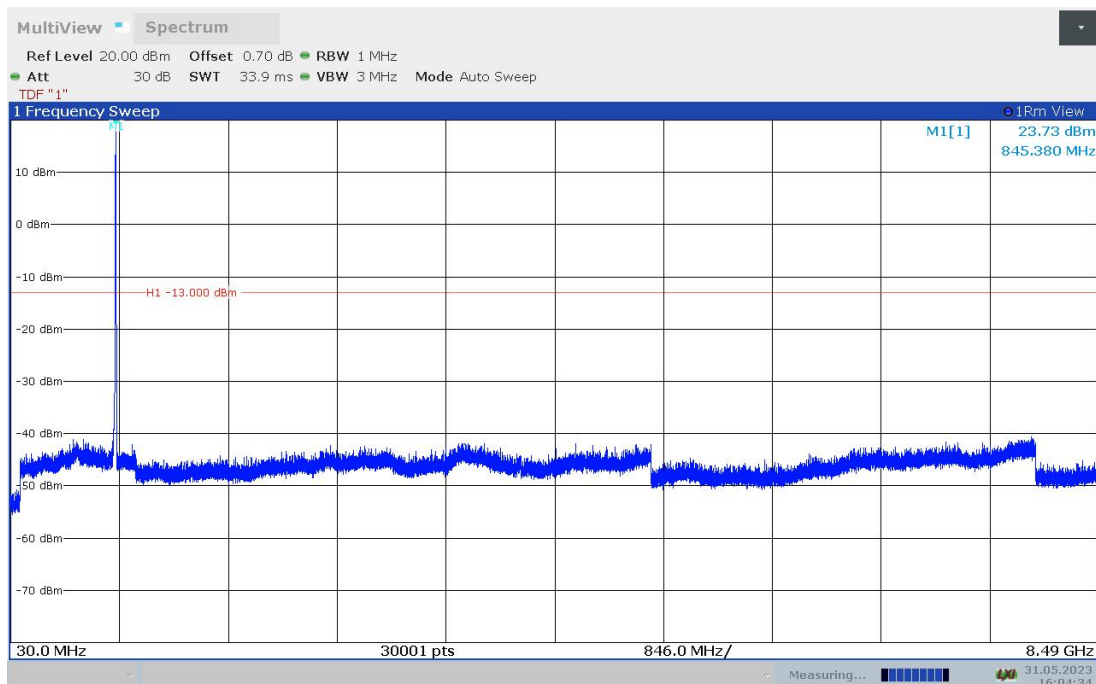
NOTE: peak above the limit line is the carrier frequency.



Channel 4233: 30MHz –8.49GHz

Spurious emission limit –13dBm.

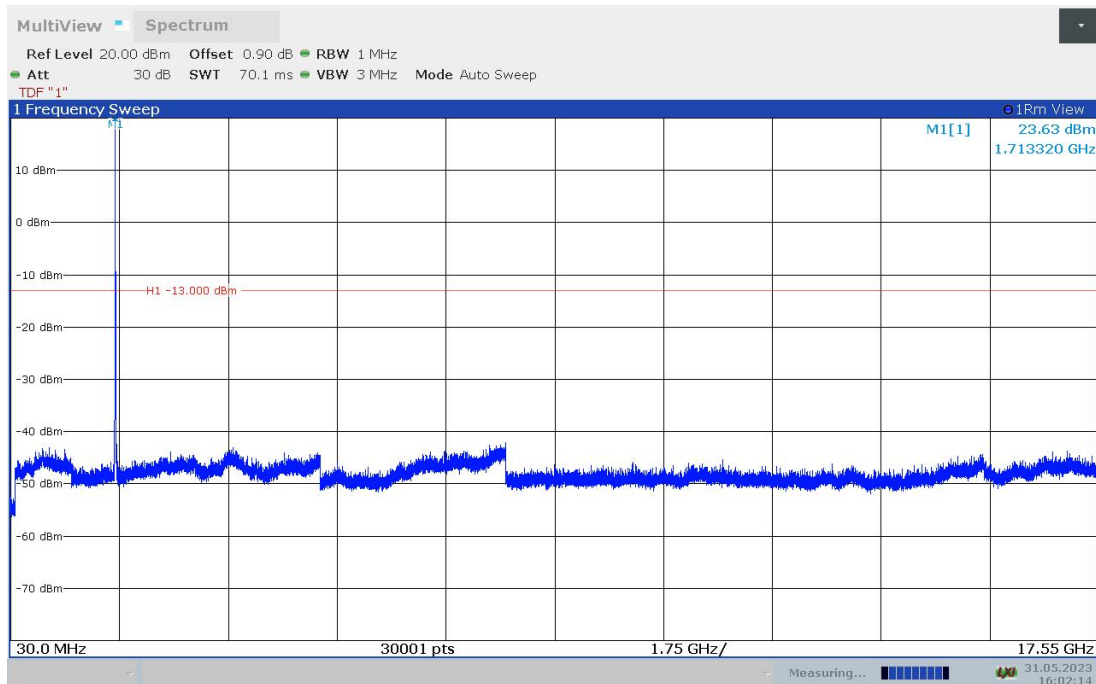
NOTE: peak above the limit line is the carrier frequency.



WCDMA Band IV

Channel 1312: 30MHz –17.55GHz

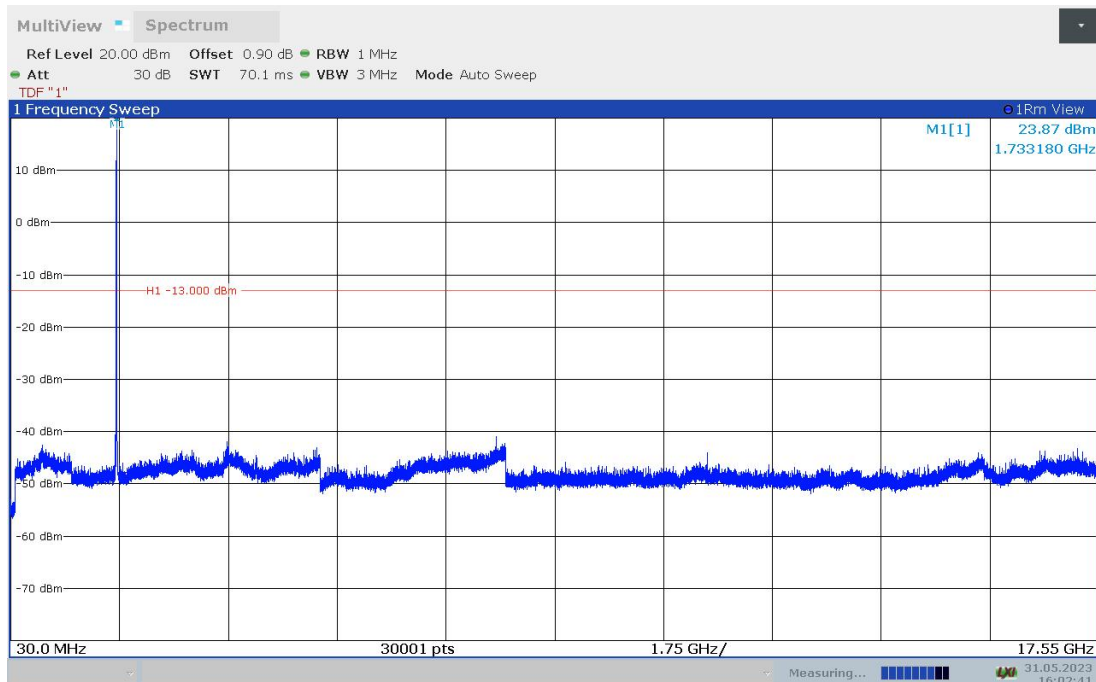
Spurious emission limit –13dBm.



Channel 1412: 30MHz –17.55GHz

Spurious emission limit –13dBm.

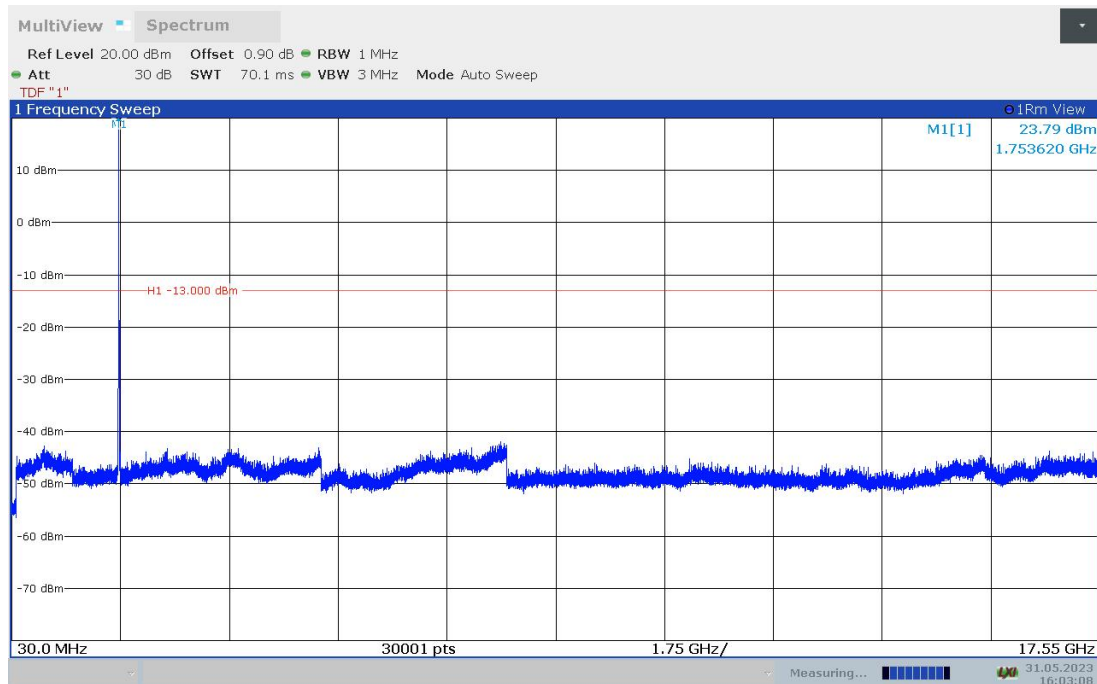
NOTE: peak above the limit line is the carrier frequency.



Channel 1513: 30MHz –17.55GHz

Spurious emission limit –13dBm.

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



Note: Expanded measurement uncertainty is $U = 0.49 \text{ dB}(100\text{KHz}-2\text{GHz})/1.21 \text{ dB} (2\text{GHz}-26.5\text{GHz}), k = 1.96$

A.8 PEAK-TO-AVERAGE POWER RATIO

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

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

Measurement results

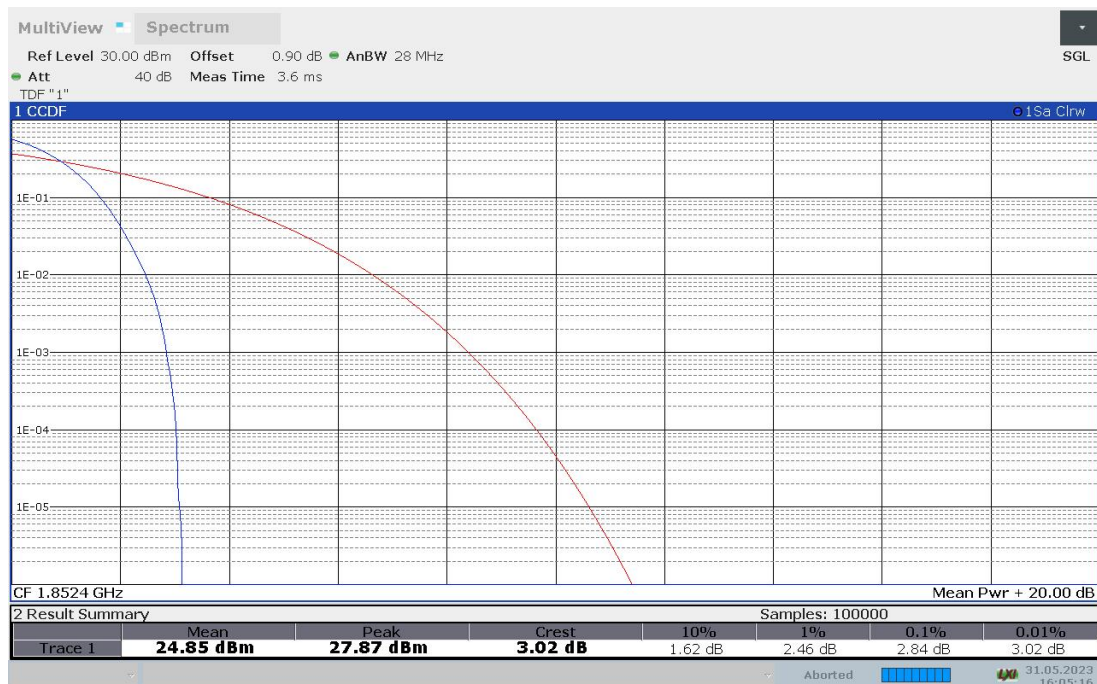
Only worst case result is given below

WCDMA Band II (PAPR)-QPSK

Frequency(MHz)	Peak-To-Average Power Ratio(PAPR)(dB)
1880.0	2.84

WCDMA Band II

Channel 9400- Peak-To-Average Power Ratio(PAPR)-QPSK

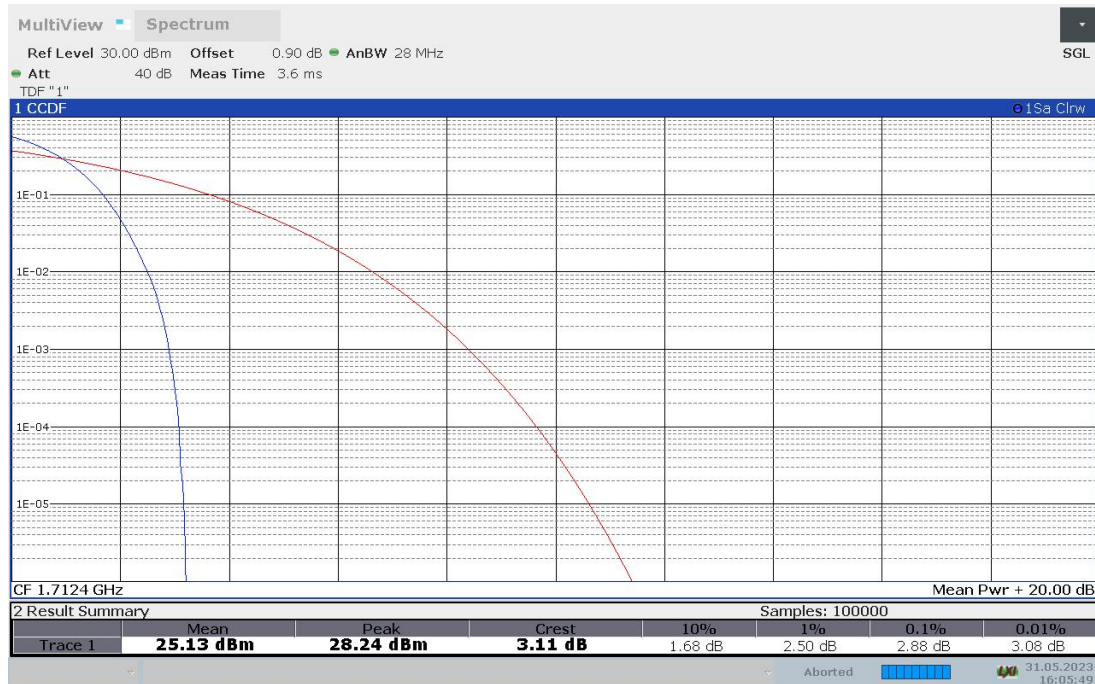


WCDMA Band V (PAPR)-QPSK

Frequency(MHz)	Peak-To-Average Power Ratio(PAPR)(dB)
836.6	2.88

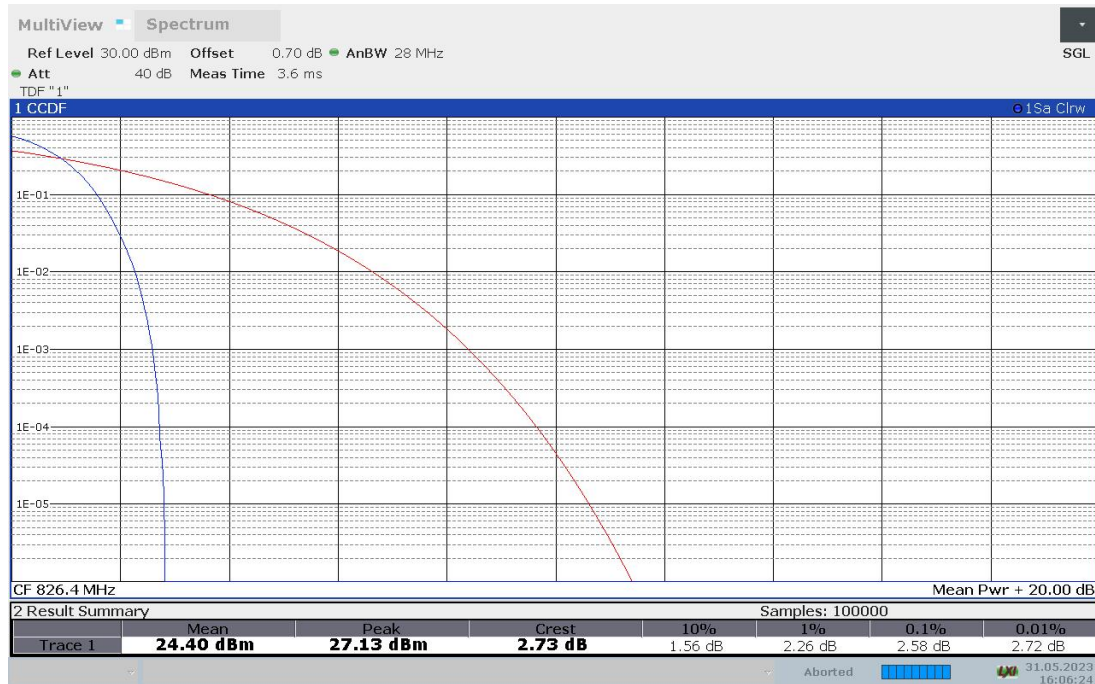
WCDMA Band V

Channel 4183- Peak-To-Average Power Ratio(PAPR)-QPSK



WCDMA Band IV (PAPR)-QPSK

Frequency(MHz)	Peak-To-Average Power Ratio(PAPR)(dB)
1732.4	2.58

WCDMA Band IV
Channel 1412- Peak-To-Average Power Ratio(PAPR)-QPSK


Note: Expanded measurement uncertainty is $U = 0.48$ dB, $k = 2$

END OF REPORT