

# TEST REPORT FOR WCDMA TESTING

Report No.: SRTC2020-9004(F)-20111001(B)

Product Name: Mobile phone

Product Model: HLTE232E

Applicant: Hisense International Co., Ltd.

Manufacturer: Hisense Communications Co., Ltd.

Specification: FCC Part 24E, Part 22H, Part 2, Part 27 (2019)

FCC ID: 2ADOBHLTE232E

The State Radio\_monitoring\_center Testing Center (SRTC)

15th Building, No.30 Shixing Street, Shijingshan District,

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## **1. GENERAL INFORMATION**

### **1.1 Notes of the test report**

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### **1.2 Information about the testing laboratory**

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District, P.R.China
City:	Beijing
Country or Region:	P.R.China
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### **1.3 Applicant's details**

Company:	Hisense International Co., Ltd.
Address:	Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China
City:	Qingdao
Country or Region:	China
Contacted person:	Geng Ruifeng
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Fax:	---
Email:	gengruifeng@hisense.com

### **1.4 Manufacturer's details**

Company:	Hisense Communications Co., Ltd.
Address:	218 Qianwangang Road, Qingdao Economic & Technological Development Zone, Qingdao, China
City:	Qingdao
Country or Region:	China
Contacted person:	Deng Tingting
Tel:	+86-532-55753708
Fax:	---
Email:	dengtingting@hisense.com

## 1.5 Test Environment

Date of Receipt of test sample at SRTC:	2020-11-10
Testing Start Date:	2020-11-10
Testing End Date:	2020-11-23

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	40
Maximum Extreme	55	---
Minimum Extreme	0	---

Normal Supply Voltage (V d.c.):	3.80
Maximum Extreme Supply Voltage (V d.c.):	4.35
Minimum Extreme Supply Voltage (V d.c.):	3.50

## 2 DESCRIPTION OF THE DEVICE UNDER TEST

### 2.1 Final Equipment Build Status

Frequency Range	WCDMA Band II: Tx:1852.4~1907.6MHz Rx:1932.4~1987.6MHz WCDMA Band IV: Tx:1712.4~1752.6MHz Rx:2112.4~2152.6MHz WCDMA Band V: Tx:826.4~846.6MHz Rx:871.4~891.6MHz
Mode	HSDPA/HSUPA/HSPA+/DC-HSDPA
Emission Designator	4M50F9W
Duplex Mode	FDD
Duplex Spacing	WCDMA Band II:80MHz WCDMA Band IV:400MHz WCDMA Band V:45MHz
Antenna Type	Fixed Internal Antenna
Antenna Gain	W2: -0.69dBi/W4: -0.63dBi/W5: -0.95dBi
Power Supply	Battery/Charger
Hardware Version	FS185-MB-V5.0
Software Version	Hisense_HLTE232E_10_S01_01_01_MX05_debug_KS232D_0003673_20201107_0713
IMEI	869130050001655

**Note:** The difference between main supply and secondary supply is that the Battery, Camera, Memory, Fingerprint and do not affect the RF parameters, so the secondary supply evaluates the worst case of radiation.

#### Main Supply

Part Name	Model	Supplier(Brand)	Description
Battery	LPN385500	ShenzhenAerospaceElectronic Co.,Ltd.	PLG496590
Camera	BC12903V0	Kingcome	HI1336,COB,S1326A
fingerprint	S88ZC5045-A1	Shenzhen shennuoxin electronic technology co. LTD	SW9022

#### Secondary Supply

Part Name	Model Name	Supplier	Remark
Battery	LPN385500	DONGGUAN MILEY ELECTRONICS CO.,LTD	496588P5000
Camera	OVX3545-LS051-AR13 35V1.0	JIANGXI O&V-STAR TECHNOLOGY CO.LTD	AR1335 COB
fingerprint	F272-KS232-SW9022-V1.0	JIANGXI O&V-STAR TECHNOLOGY CO.LTD	SW9022

## 2.2 Support Equipment

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

Equipment	Battery
Manufacturer	ShenzhenAerospaceElectronic Co.,Ltd.
Model Number	PLG496590
Equipment	Battery
Manufacturer	DONGGUAN MILEY ELECTRONICS CO.,LTD
Model Number	496588P5000
Equipment	Charger
Manufacturer	SHENZHENTIANYIN ELECTRONICS CO., LTD.
Model Number	TPA-46050200UU
Equipment	Headset 1
Manufacturer	kelinDongguan Keling Electronic Technology Co., Ltd
Model Number	KS232D
Equipment	USB Cable 1
Manufacturer	kelinDongguan Keling Electronic Technology Co., Ltd
Model Number	KS232D

## 2.3 Summary table.

FCC Rule Part	Frequency Range (MHz)	ERP/ EIRP (dBm)	ERP/ EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
24E	1852.4-1907.6	21.50	0.141	0.006	4M17F9W
22H	826.4-846.6	19.08	0.081	0.009	4M17F9W
27	1712.4-1752.6	20.89	0.123	0.007	4M17F9W

### **3 REFERENCE SPECIFICATION**

Specification	Version	Title
FCC Part2	2019	Frequency allocations and radio treaty matters; general rules and regulations
FCC Part22	2019	Public mobile services
FCC Part24	2019	Personal communications services
FCC Part27	2019	Miscellaneous wireless communications services
ANSI C63.26	2015	American national standard for compliance testing of transmitters used in licensed radio services
KDB 971168 D01	April 9, 2018	Measurement guidance for certification of licensed digital transmitters
TIA-603-E-2016	March 2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards




### **4 KEY TO NOTES AND RESULT CODES**

The following are the definition of the test result.

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

## 5 RESULT SUMMARY

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

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Mr. Li Bin 
Tested by: Mr. Tong Daocheng 	Issued date:  20201124



## 6 TEST RESULT

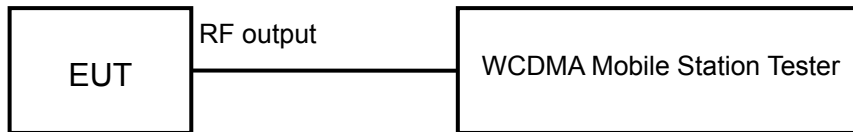
### 6.1 RF Power Output

Rule Part(s):  
2.1046

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	40%	101.9kPa

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

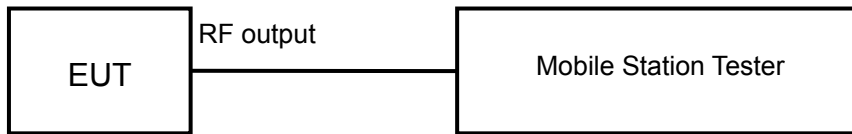
Rule Part(s):

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

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	40%	101.9kPa

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.

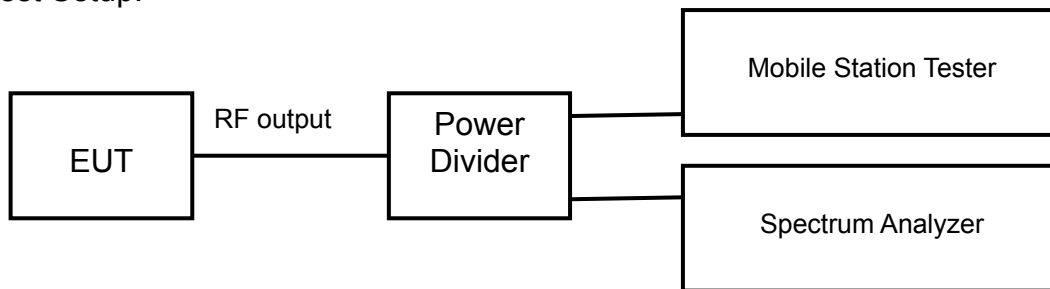
### 6.3 Occupied Bandwidth

Rule Part(s):  
FCC: 2.1049

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	40%	101.9kPa

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 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 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.

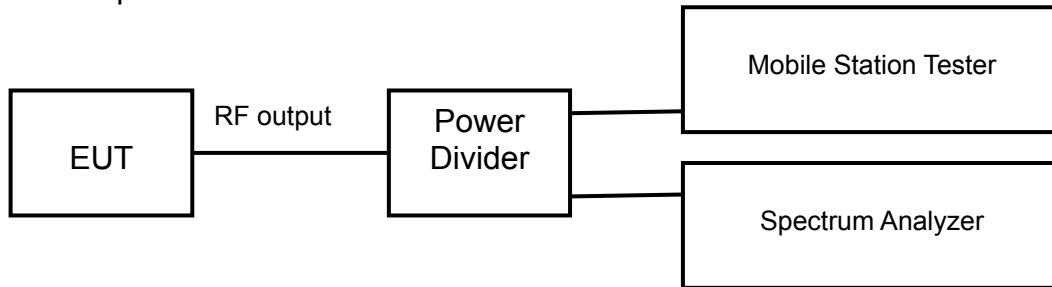
## 6.4 Emission Bandwidth

Rule Part(s):  
FCC: 2.1049

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	40%	101.9kPa

Test Setup:



Test procedure:  
KDB 971168 D01 v03r01 – Section 4.2

Test Settings

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

Limits: No specific occupied bandwidth requirements in part 2.1049

Test result:

The test results are shown in Appendix A.

## 6.5 Spurious Emissions at antenna terminal

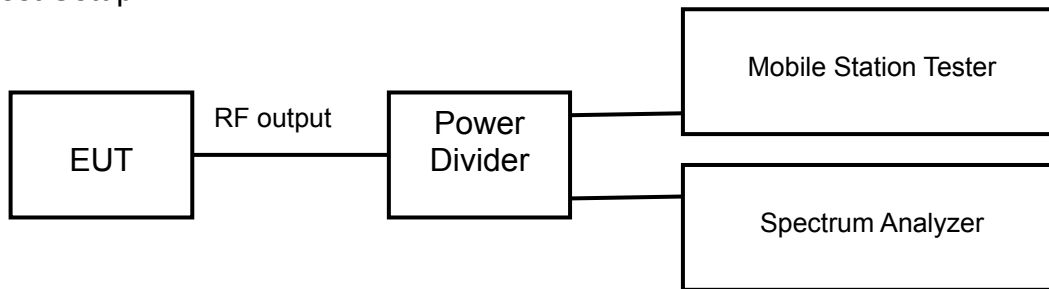
Rule Part(s):

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

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	40%	101.9kPa

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  $43 + \log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts.

Test result:

The test results are shown in Appendix A.

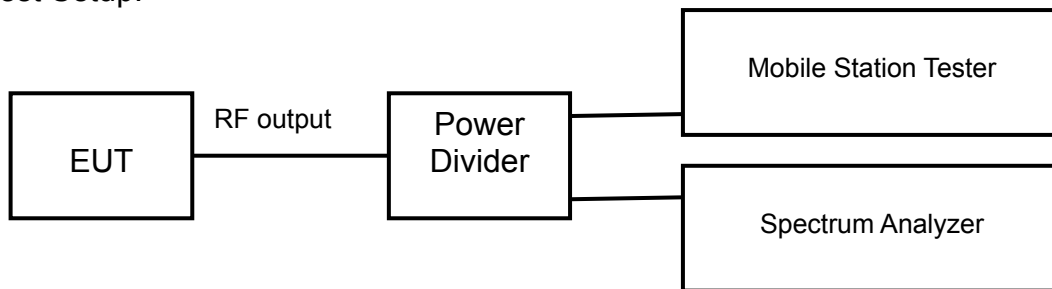
## 6.6 Band Edges Compliance

Rule Part(s)  
FCC: 2.1051, 22.917(a), 24.238(a), 27.53(c)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	40%	101.9kPa

Test Setup:



Test procedure:  
KDB 971168 D01 v03r01 – Section 6.0

Test Settings

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

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

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

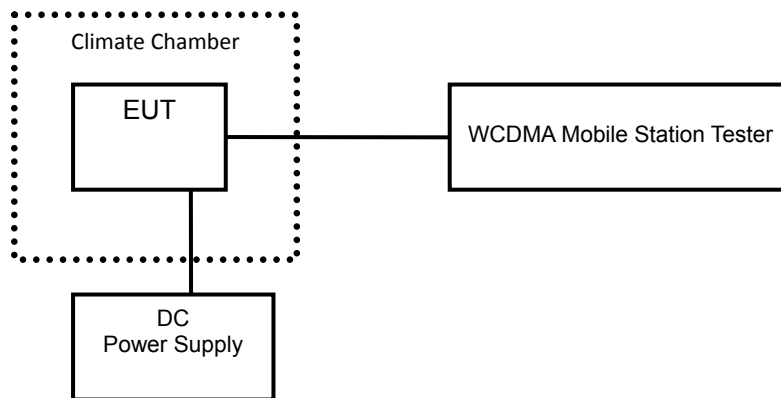
## 6.7 Frequency Stability

Rule Part(s)  
FCC: 2.1055, 22.355, 24.235, 27.54

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	40%	101.9kPa

Test setup:



Test Procedure:  
ANSI/TIA-603-E-2016

### Test Settings

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

Limits: For Part 22, the frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$  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.

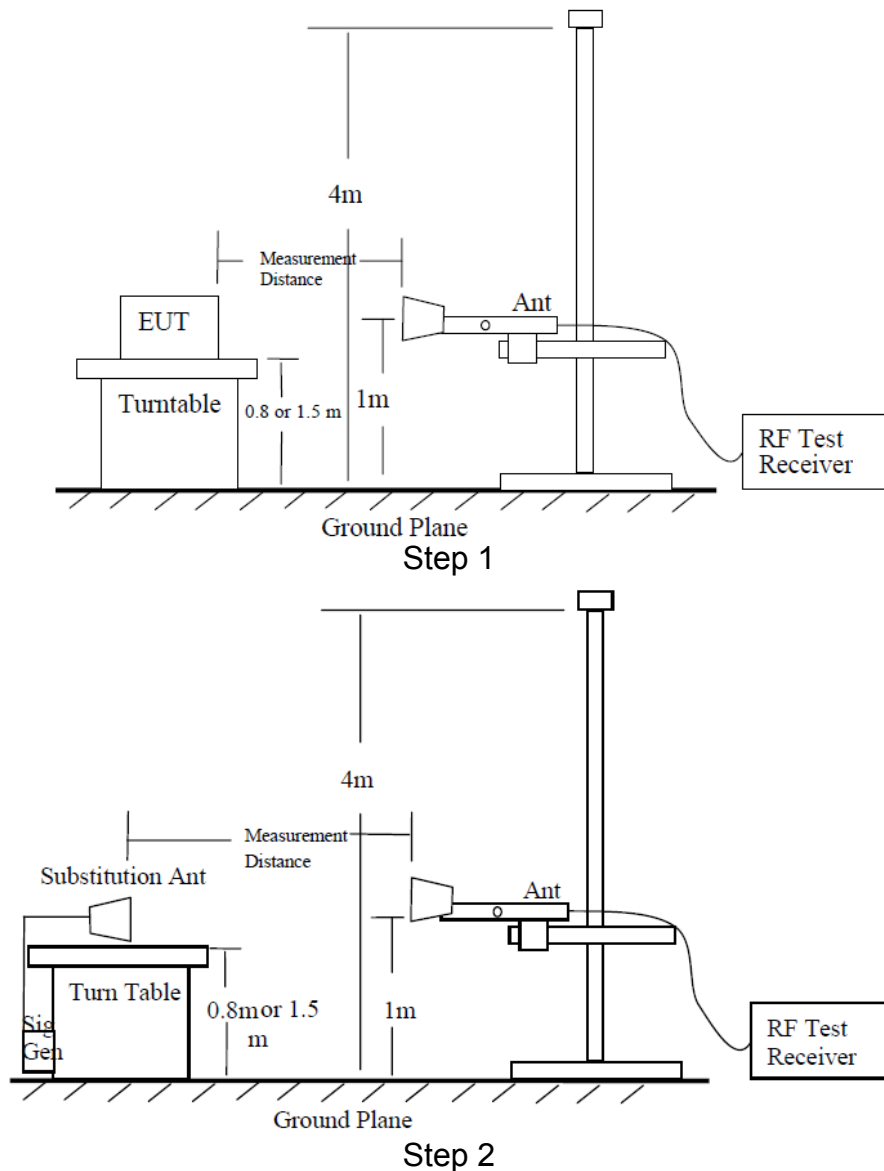
## 6.8 Radiated Spurious Emissions

Rule Part(s)  
FCC: 2.1053, 22.917(a), 24.238(a), 27.53(h)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	40%	101.9kPa

Test Setup:





**Test procedure:**

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

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

**Step 1:**

The measurement is carried out in the chamber. EUT was placed on a 0.8m ( $f < 1\text{GHz}$ )/1.5m ( $f > 1\text{GHz}$ ) high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The height of receiving antenna from 1m to 4m and varies in certain range to find the maximum power value. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used and RBW is set to 100 kHz ( $f < 1\text{GHz}$ )/1MHz ( $f > 1\text{GHz}$ ). The antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum power value on spectrum analyzer or receiver. The spectrum analyzer scans from 30MHz to 10th harmonic of the carrier. A notch filter is necessary in the band near to the carrier frequency. A high pass filter is needed to avoid the distortion of the testing equipment in the band above the carrier frequency.

**Step 2:**

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

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

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

**Calculation procedure:**

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

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

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

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

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

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

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

**Test result:**

The test results are shown in Appendix B.

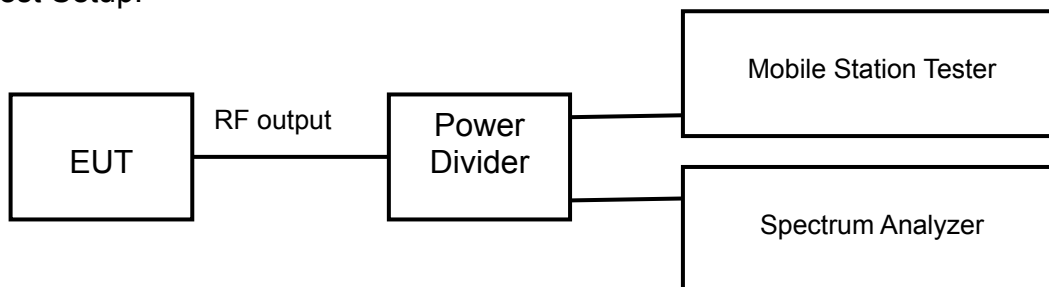
## 6.9 Peak-Average Ratio

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

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	40%	101.9kPa

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	U=0.6 dB	
Occupied Bandwidth	3kHz	
Spurious Emissions	9kHz~2GHz	U=1.2dB
	2G~3.6GHz	U=1.4dB
	3.6G~8GHz	U=2.2dB
	8G~12.75GHz	U=2.7dB
Band Edges Compliance	1.2dB	
Frequency Stability	U=48 Hz	

## 8 TEST EQUIPMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Date	Calibration Due Date
1	MT8820C Mobile Station Tester	Anritsu	6201300660	2020.08.20	2021.08.19
2	CMW500 Radio Communication Station	R&S	161702	2020.08.20	2021.08.19
2	FSV40 Spectrum Analyzer	R&S	101065	2020.08.20	2021.08.19
3	N9020A Spectrum Analyzer	Agilent	MY48010771	2020.08.20	2021.08.19
4	6007 Power Divider	Weinschel	6007-GJ-1	2020.08.20	2021.08.19
5	DC Power Supply E3645A	Agilent	MY40000741	2020.03.01	2021.02.28
6	Temperature chamber SH241	ESPEC	92013758	2020.08.20	2021.08.19
7	12.65m×8.03m×7.50m Fully-Anechoic Chamber	FRANKONIA	----	----	----
8	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	---	----	----
9	Turn table Diameter:1m	FRANKONIA	----	----	----
10	Turn table Diameter:5m	FRANKONIA	----	----	----
11	Antenna master FAC(MA4.0)	MATURO	----	----	----
12	Antenna master SAC(MA4.0)	MATURO	----	----	----
13	9.080m×5.255m×3.525m Shielding room	FRANKONIA	----	----	----
14	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	2020.08.20	2021.08.19
15	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100513	2020.08.20	2021.08.19
16	HL562 Ultra log antenna	R&S	100016	2020.08.20	2021.08.19
17	3160-09 Receive antenna	SCHWARZ-BECK	002058-002	2020.08.20	2021.08.19
18	ESI 40 EMI test receiver	R&S	100015	2020.08.20	2021.08.19
19	ESCS30 EMI test receiver	R&S	100029	2020.08.20	2021.08.19
20	HL562 Receive antenna	R&S	100167	2020.08.20	2021.08.19
21	ENV216 AMN	R&S	3560.6550.12	2020.08.20	2021.08.19

## **APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

### **RF Power Output WCDMA band II**

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1852.4	9262	22.18
		1880	9400	22.19
		1907.6	9538	22.24
HSDPA	Subtest1	1852.4	9262	22.01
		1880	9400	21.83
		1907.6	9538	21.91
	Subtest2	1852.4	9262	22.01
		1880	9400	21.83
		1907.6	9538	21.91
	Subtest3	1852.4	9262	22.01
		1880	9400	21.83
		1907.6	9538	21.91
	Subtest4	1852.4	9262	22.01
		1880	9400	21.83
		1907.6	9538	21.91
HSUPA	Subtest1	1852.4	9262	21.83
		1880	9400	21.74
		1907.6	9538	21.85
	Subtest2	1852.4	9262	21.83
		1880	9400	21.74
		1907.6	9538	21.85
	Subtest3	1852.4	9262	21.83
		1880	9400	21.74
		1907.6	9538	21.85
	Subtest4	1852.4	9262	21.83
		1880	9400	21.74
		1907.6	9538	21.85
	Subtest5	1852.4	9262	21.83
		1880	9400	21.74
		1907.6	9538	21.85
HSPA+	QPSK	1852.4	9262	21.87
		1880	9400	21.74
		1907.6	9538	21.84
	16QAM	1852.4	9262	21.87
		1880	9400	21.74
		1907.6	9538	21.84

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest1	1852.4	9262	21.92
		1880	9400	21.79
		1907.6	9538	21.93
	Subtest2	1852.4	9262	21.92
		1880	9400	21.79
		1907.6	9538	21.93
	Subtest3	1852.4	9262	21.92
		1880	9400	21.79
		1907.6	9538	21.93
	Subtest4	1852.4	9262	21.92
		1880	9400	21.79
		1907.6	9538	21.93

### Occupied Bandwidth

WCDMA band II

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.15
1880	9400	4.17
1907.6	9538	4.17

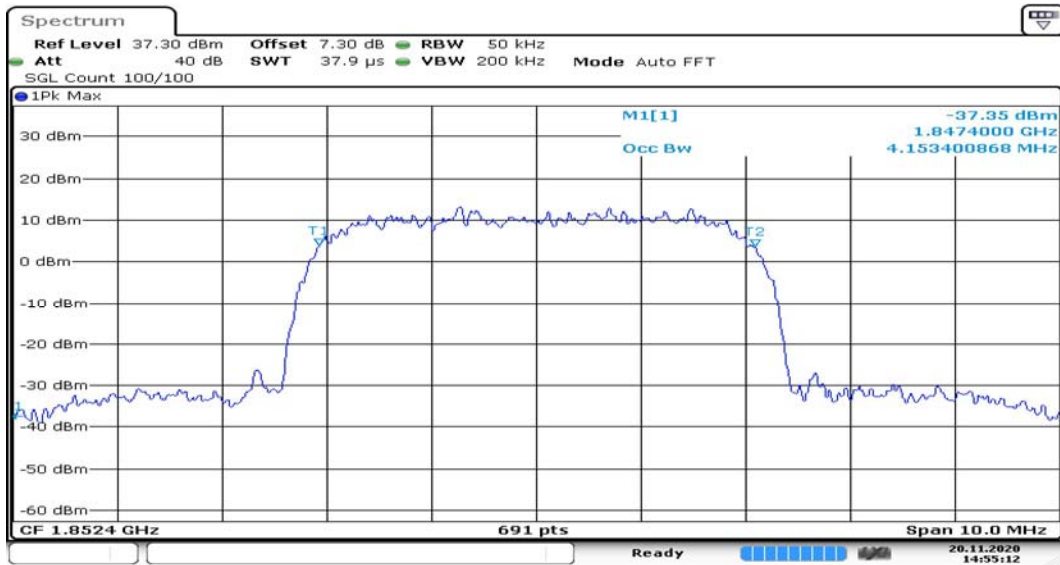
HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.12
1880	9400	4.14
1907.6	9538	4.15

HSUPA Mode:

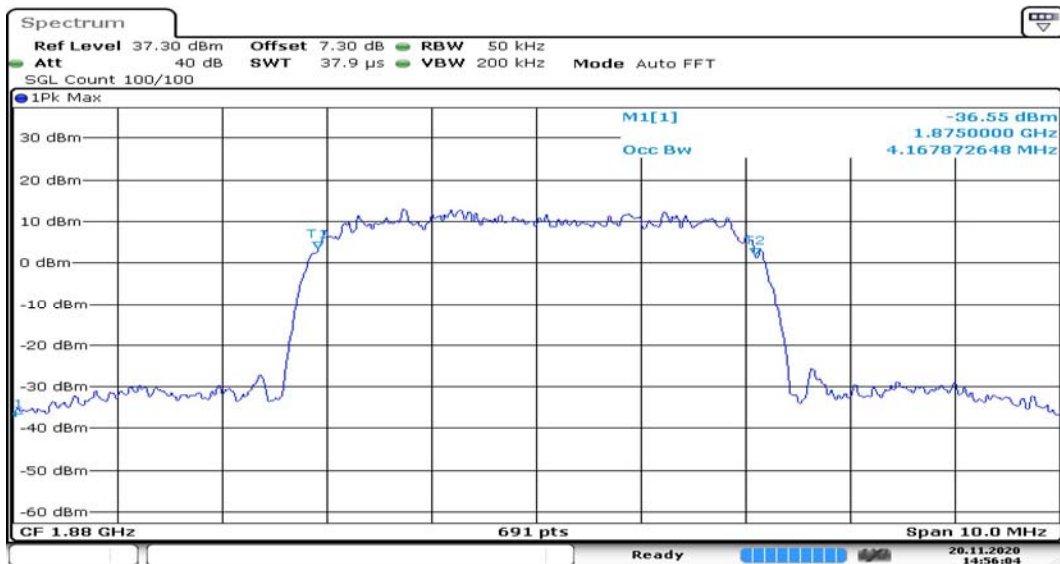
Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.17
1880	9400	4.14
1907.6	9538	4.14

WCDMA band II  
REL99 Mode:



Date: 20.NOV.2020 14:55:12

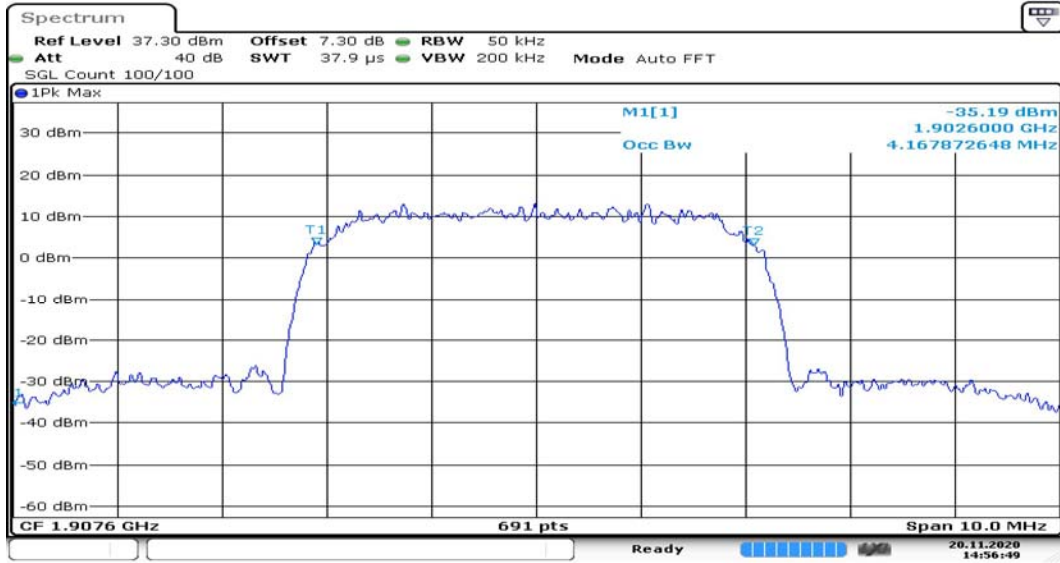
Channel 9262



Date: 20.NOV.2020 14:56:05

Channel 9400





Date: 20.NOV.2020 14:56:49

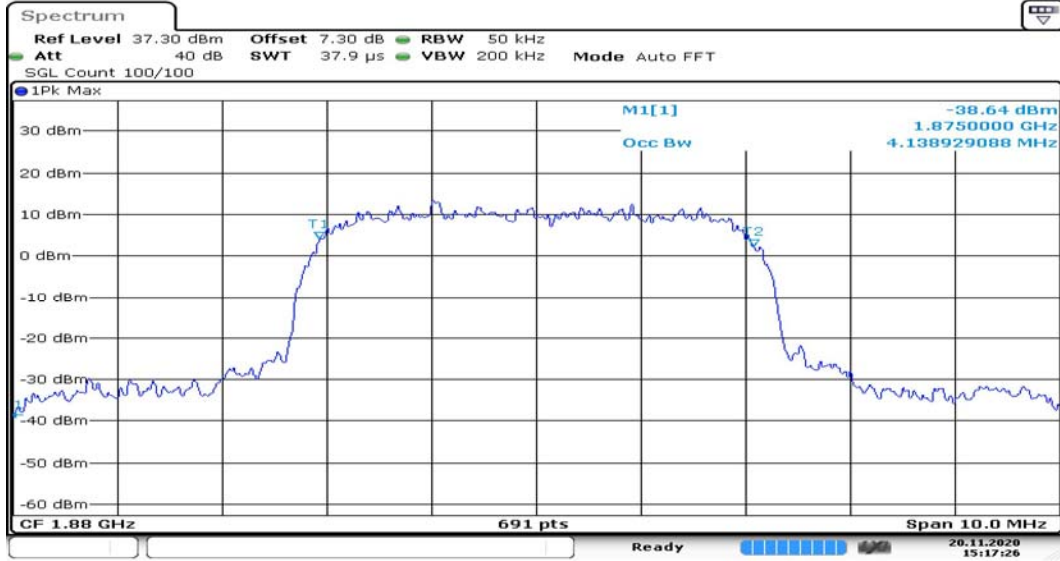
Channel 9538

HSDPA Mode:



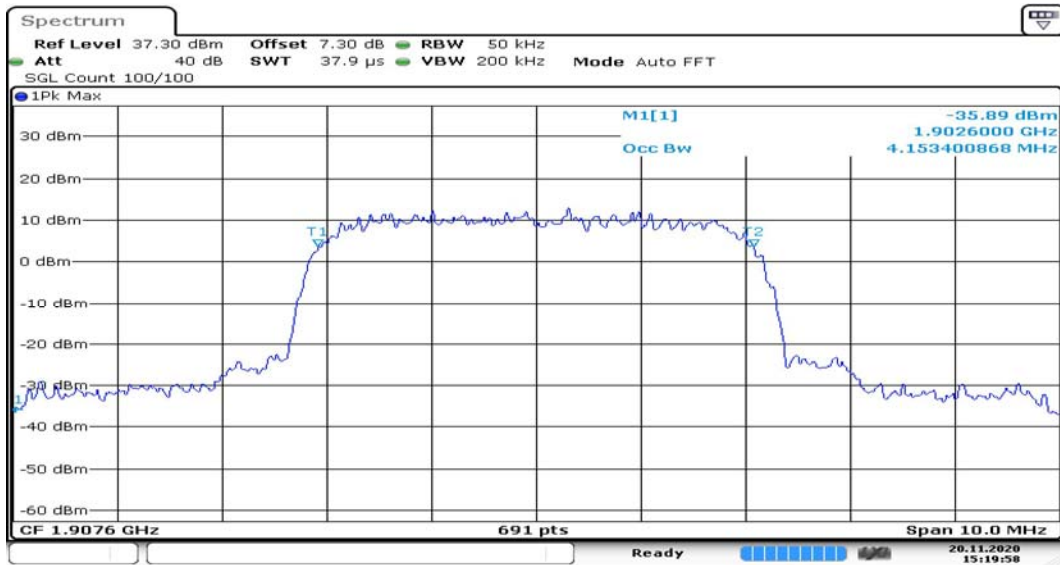
Date: 20.NOV.2020 15:14:43

Channel 9262



Date: 20.NOV.2020 15:17:26

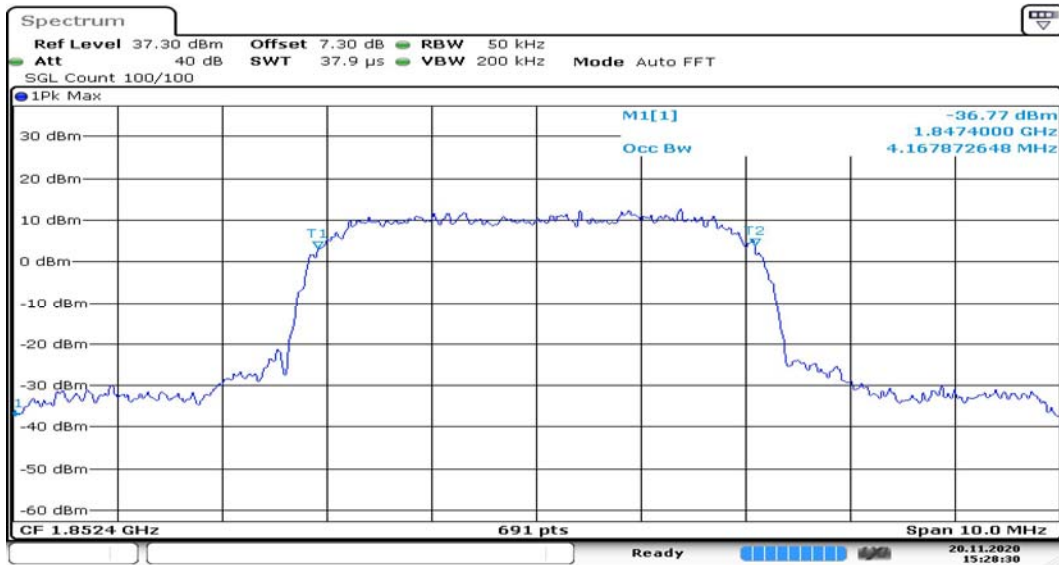
Channel 9400



Date: 20.NOV.2020 15:19:59

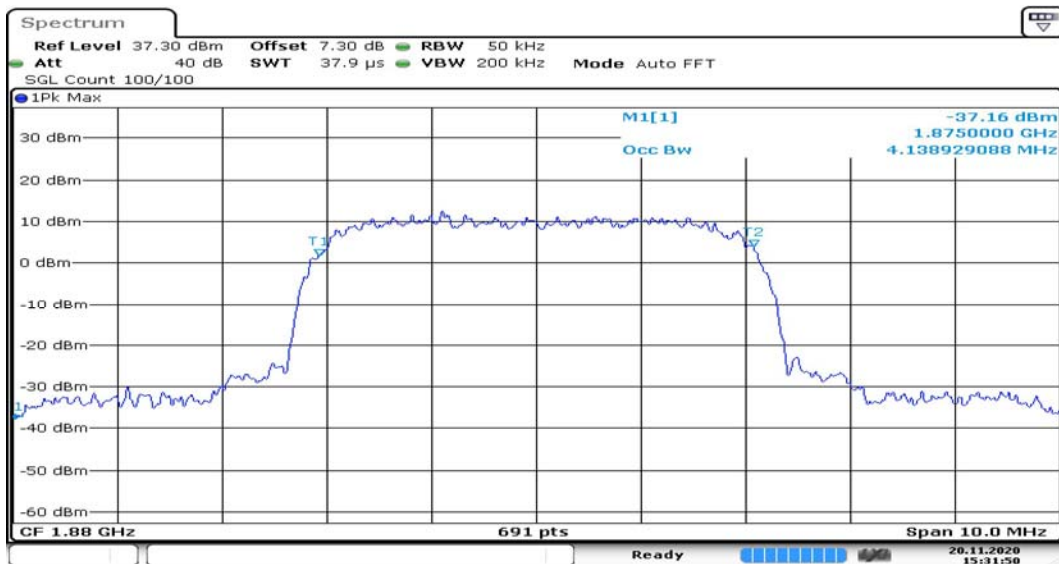
Channel 9538

HSUPA Mode:



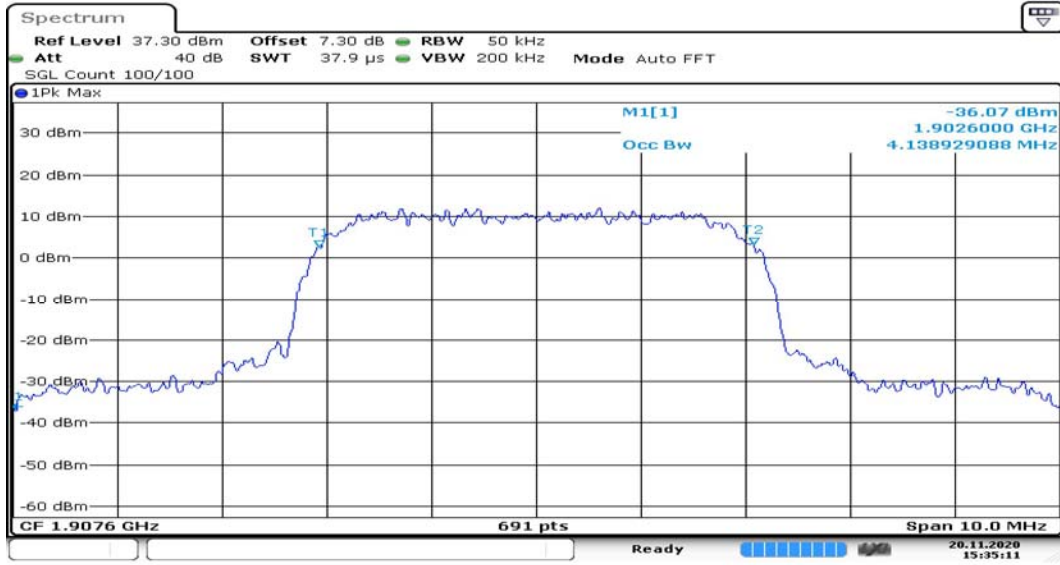
Date: 20.NOV.2020 15:28:31

Channel 9262



Date: 20.NOV.2020 15:31:50

Channel 9400



Date: 20. NOV. 2020 15:35:11

Channel 9538

**Emission Bandwidth**

WCDMA band II

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.65
1880	9400	4.65
1907.6	9538	4.63

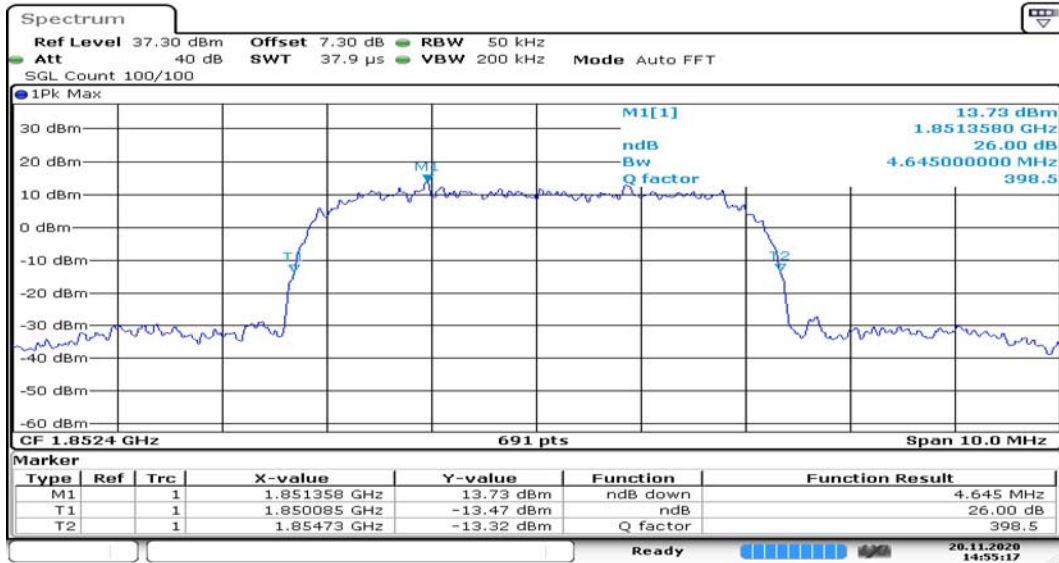
HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.65
1880	9400	4.65
1907.6	9538	4.63

HSUPA Mode:

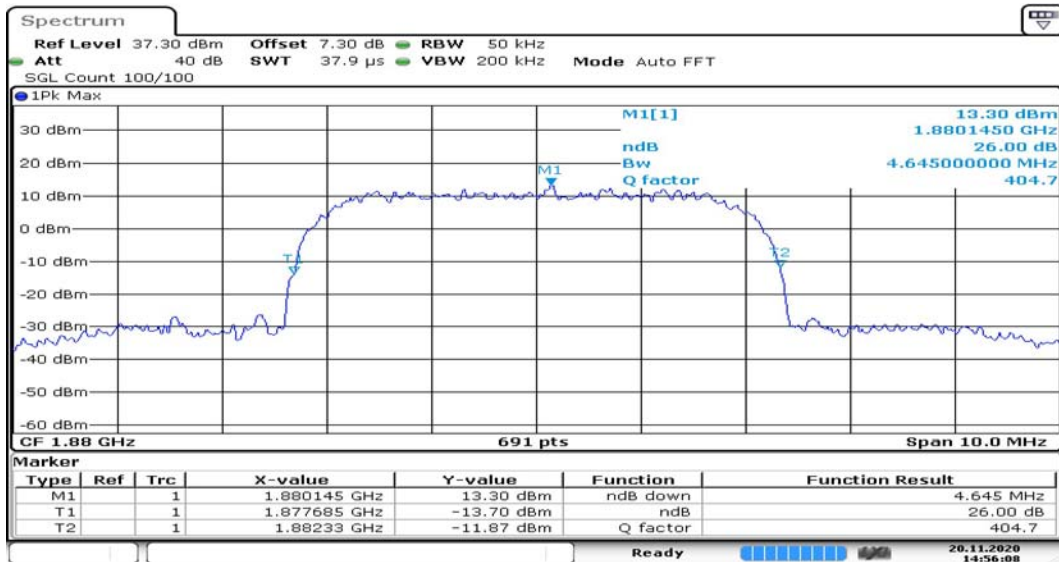
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.63
1880	9400	4.63
1907.6	9538	4.65

WCDMA band II  
REL99 Mode:



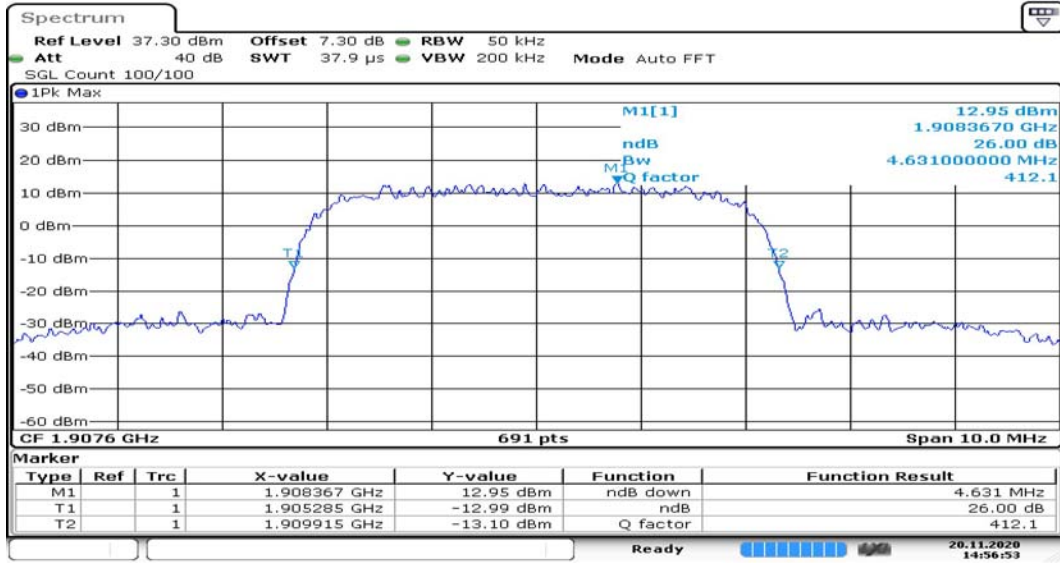
Date: 20.NOV.2020 14:55:16

Channel 9262



Date: 20.NOV.2020 14:56:09

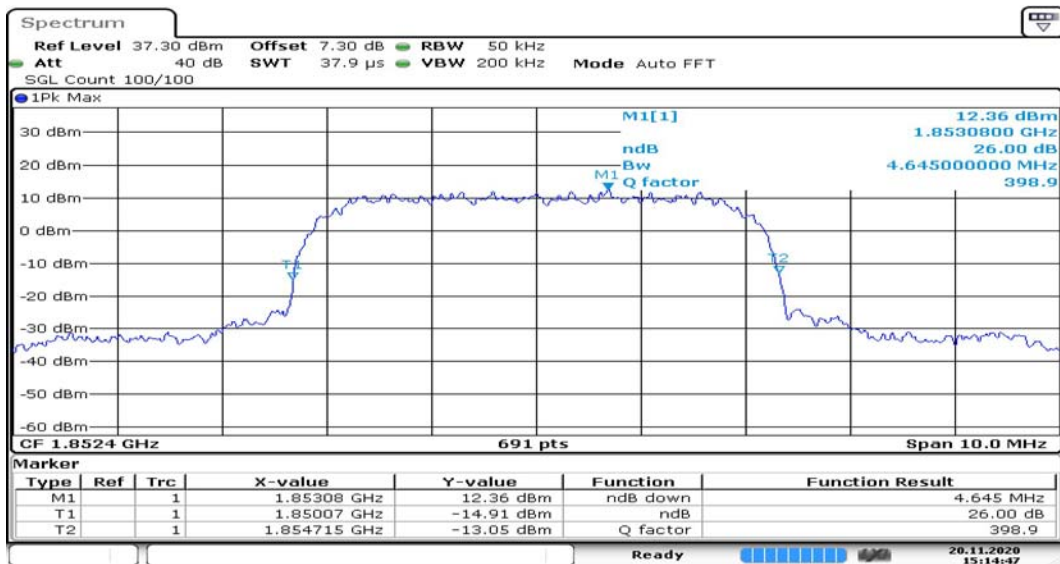
Channel 9400



Date: 20.NOV.2020 14:56:53

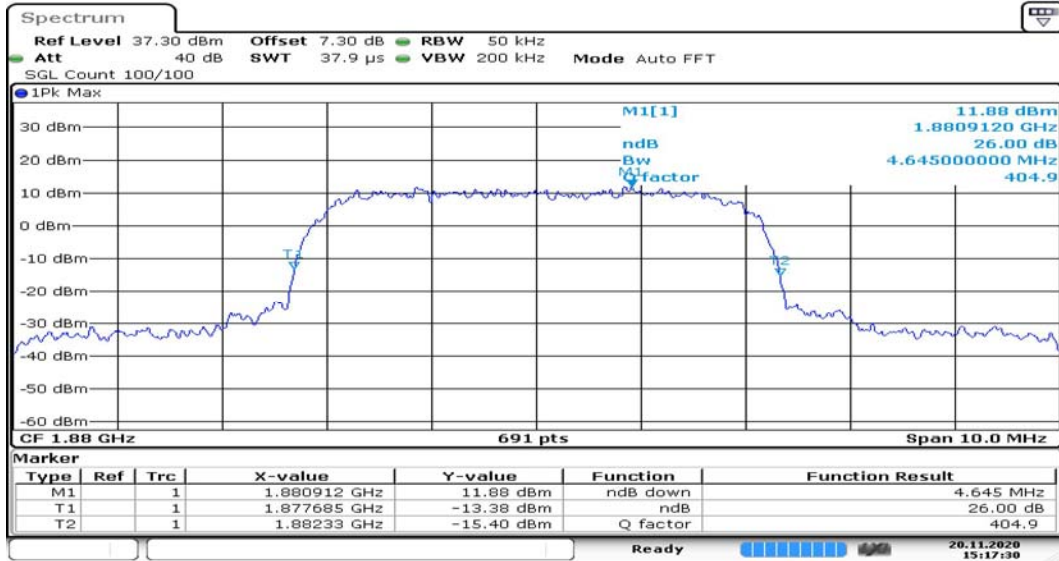
### Channel 9538

### HSDPA Mode:



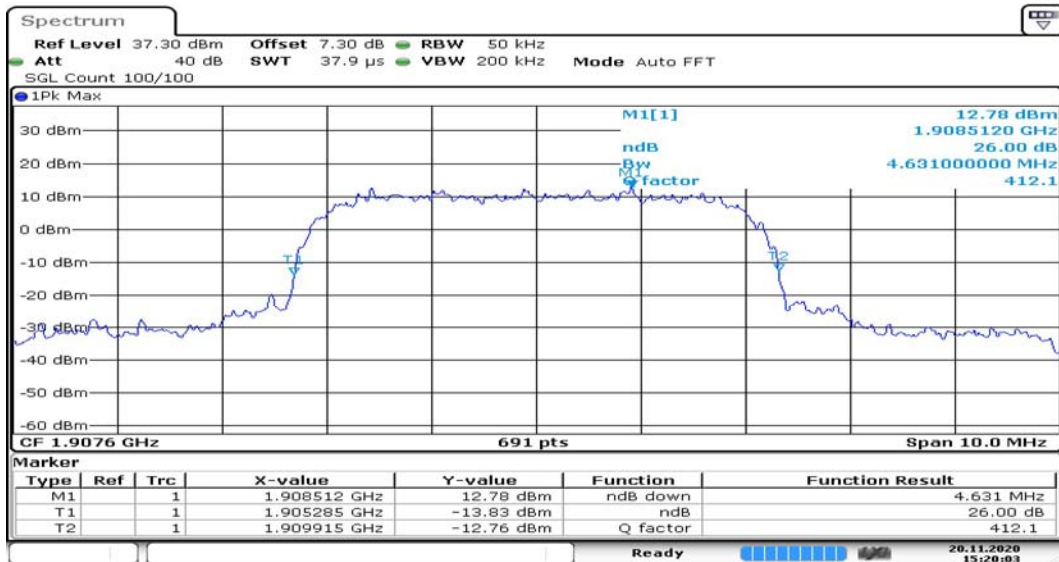
Date: 20.NOV.2020 15:14:47

### Channel 9262



Date: 20.NOV.2020 15:17:31

### Channel 9400

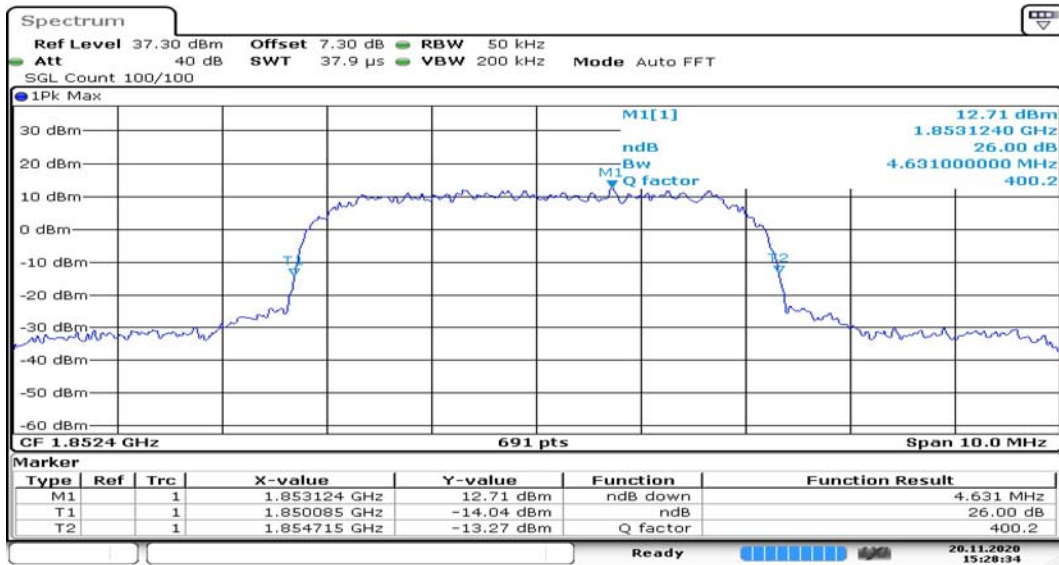


Date: 20.NOV.2020 15:20:03

### Channel 9538

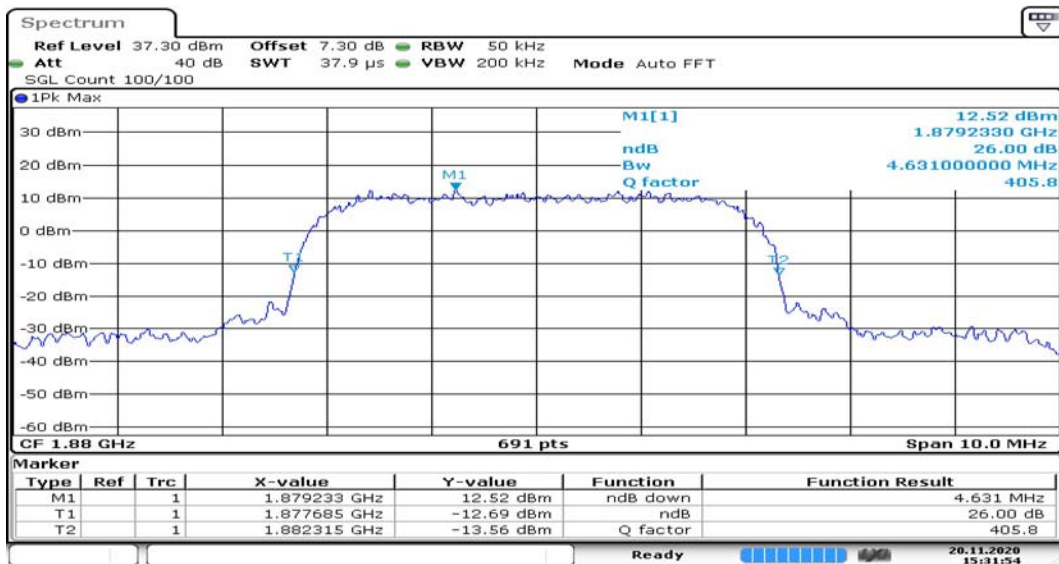


HSUPA Mode:



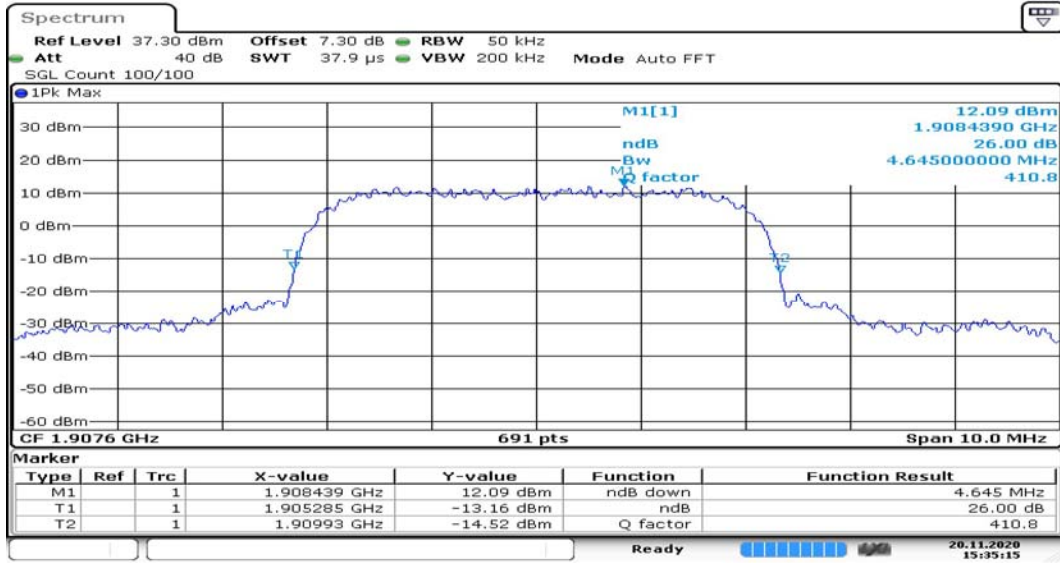
Date: 20.NOV.2020 15:28:35

Channel 9262



Date: 20.NOV.2020 15:31:54

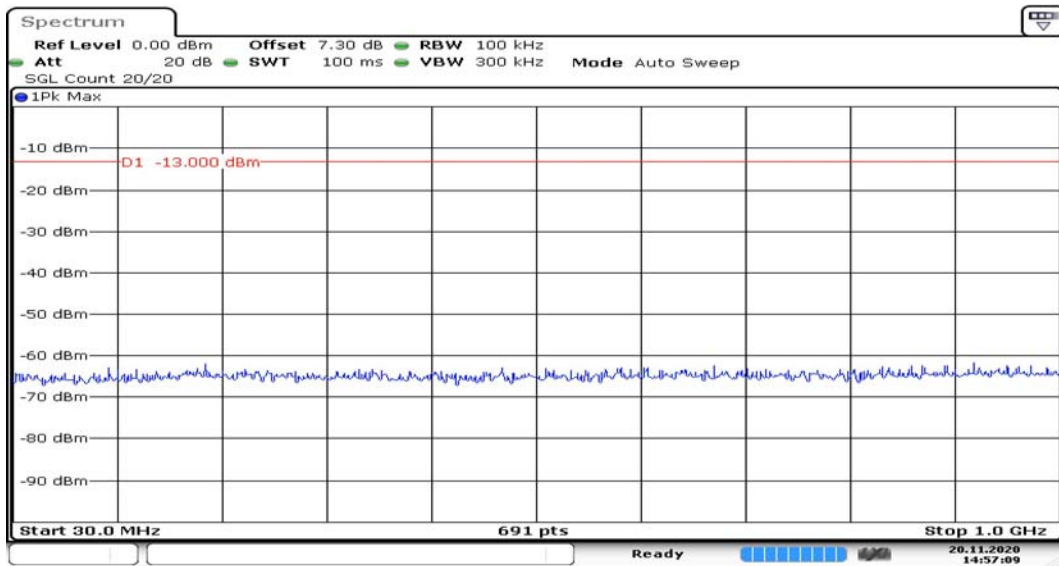
Channel 9400



Date: 20.NOV.2020 15:35:15

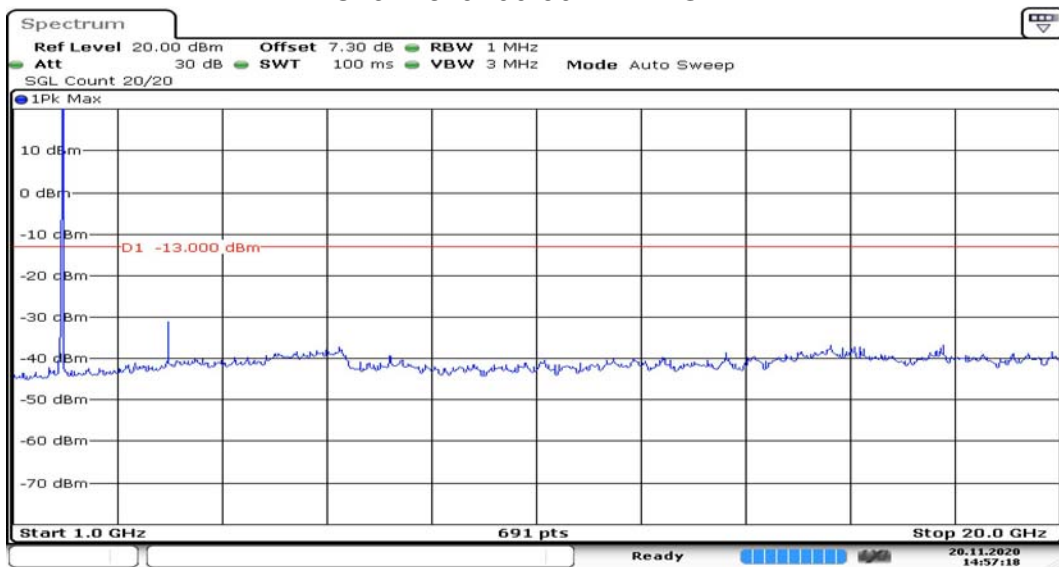
Channel 9538

**Spurious Emissions at antenna terminal**  
WCDMA band II  
REL99 Mode:



Date: 20.NOV.2020 14:57:10

**Channel 9400 30MHz~1GHz**

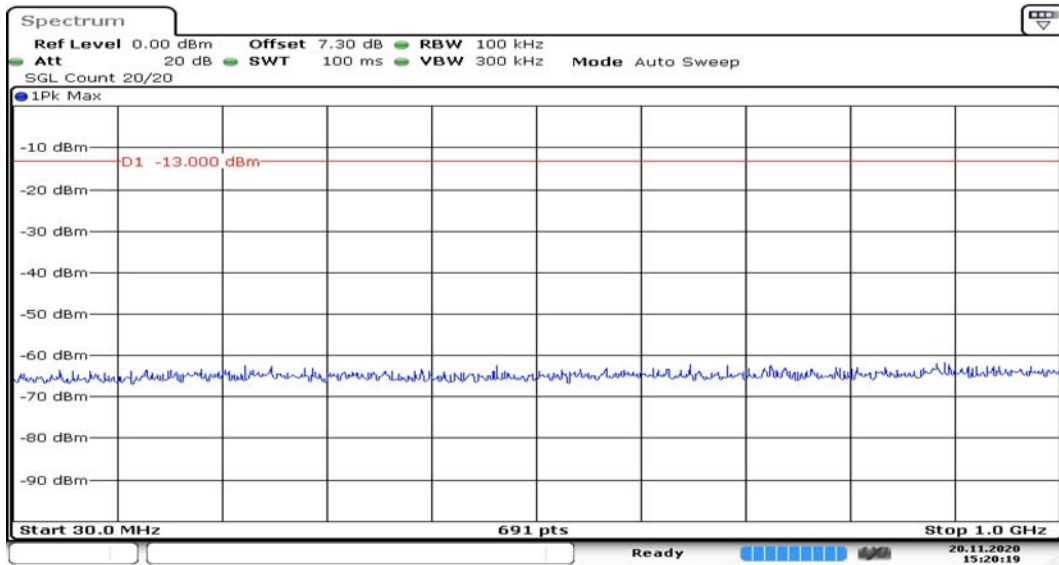


Date: 20.NOV.2020 14:57:19

**Channel 9400 1GHz~20GHz**

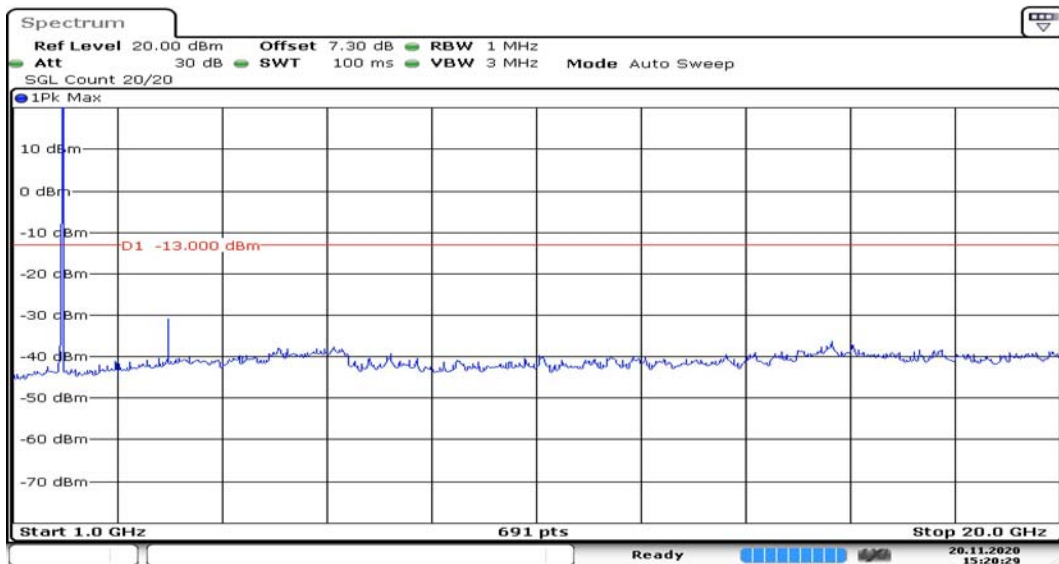
Note: The signal beyond the limit is the signal transmitted by EUT.

HSDPA Mode:



Date: 20.NOV.2020 15:20:20

Channel 9400 30MHz~1GHz

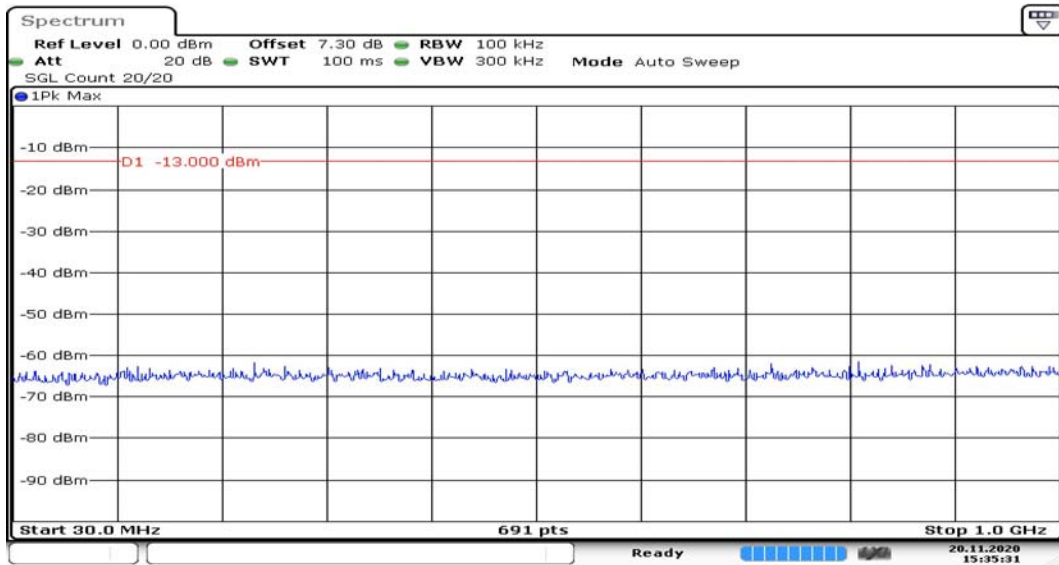


Date: 20.NOV.2020 15:20:29

Channel 9400 1GHz~20GHz

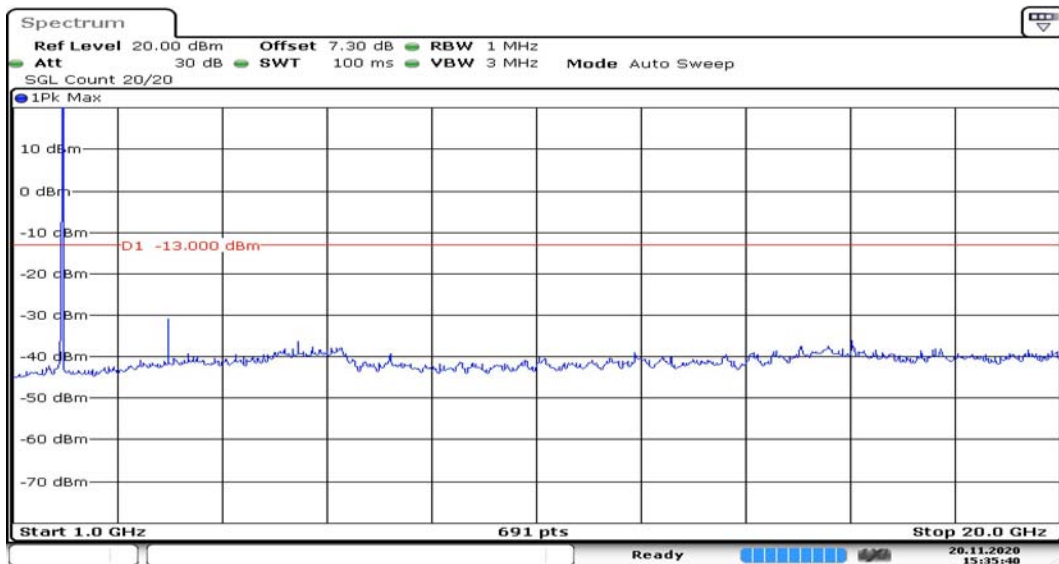
Note: The signal beyond the limit is the signal transmitted by EUT.

HSUPA Mode:



Date: 20.NOV.2020 15:35:32

Channel 9400 30MHz~1GHz



Date: 20.NOV.2020 15:35:41

Channel 9400 1GHz~20GHz

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

**Band Edges Compliance**  
WCDMA band II  
REL99 Mode:



Date: 20.NOV.2020 15:29:09

Channel 9262



Date: 20.NOV.2020 15:35:49

Channel 9538

HSDPA Mode:



Date: 20.NOV.2020 15:29:09

Channel 9262



Date: 20.NOV.2020 15:35:49

Channel 9538

HSUPA Mode:



Date: 20.NOV.2020 15:29:09

Channel 9262



Date: 20.NOV.2020 15:35:49

Channel 9538



### Frequency Stability

WCDMA band II

REL99 Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
0	-0.005	0.002	0.004
+10	-0.003	0.002	0.003
+20	0.000	0.000	0.000
+30	-0.002	0.001	0.002
+40	-0.002	0.002	0.001
+50	0.000	-0.001	0.003
Voltage	Test Result (ppm)@NT		
	Channel 9262	Channel 9400	Channel 9538
LV	-0.004	-0.001	0.001
HV	-0.005	-0.001	0.001

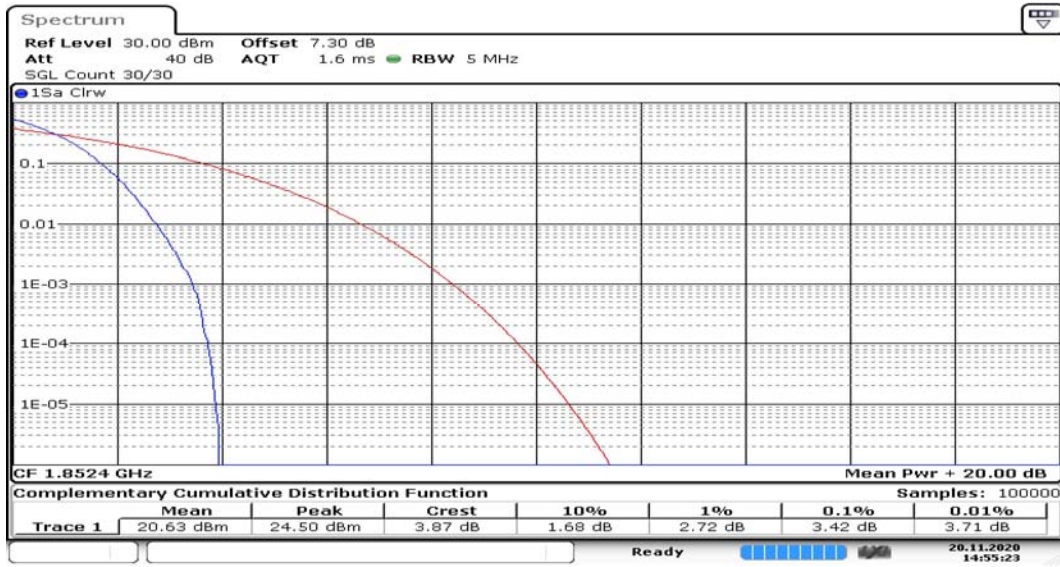
HSDPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
0	-0.003	-0.004	-0.001
+10	-0.004	-0.004	-0.002
+20	0.000	0.000	0.000
+30	-0.004	-0.005	0.000
+40	-0.003	-0.005	-0.001
+50	-0.002	-0.004	0.002
Voltage	Test Result (ppm)@NT		
	Channel 9262	Channel 9400	Channel 9538
LV	-0.003	-0.005	-0.001
HV	-0.003	-0.004	-0.001

HSUPA Mode:

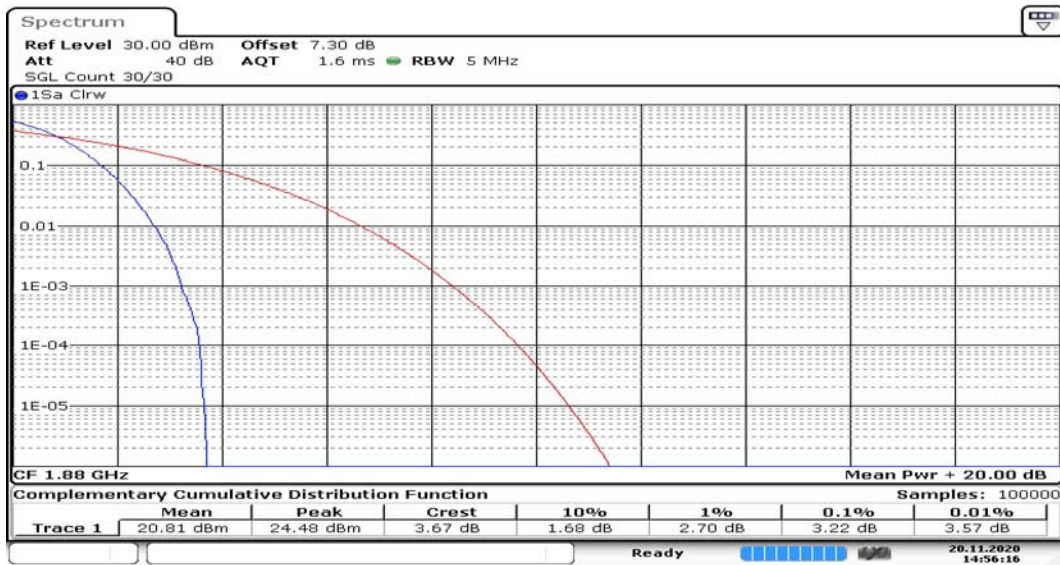
Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
0	0.001	-0.001	0.002
+10	0.002	-0.001	0.002
+20	0.000	0.000	0.000
+30	0.004	0.000	0.003
+40	0.000	0.002	0.001
+50	0.001	0.003	0.002
Voltage	Test Result (ppm)@NT		
	Channel 9262	Channel 9400	Channel 9538
LV	0.002	0.003	0.002
HV	0.002	0.000	0.003

**Peak-Average Ratio**  
WCDMA band II  
REL99 Mode:



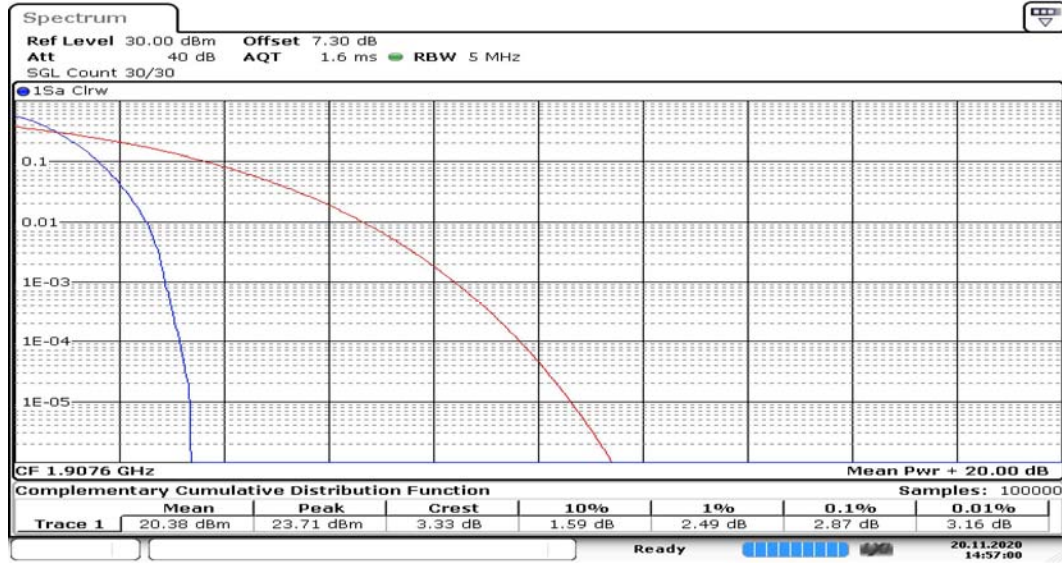
Date: 20.NOV.2020 14:55:23

Channel 9262



Date: 20.NOV.2020 14:56:16

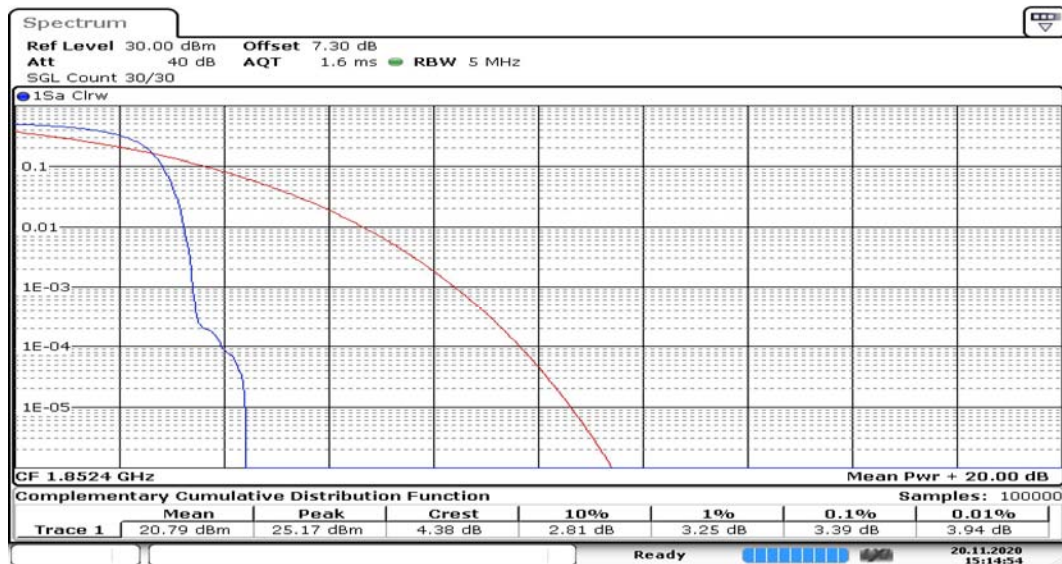
Channel 9400



Date: 20.NOV.2020 14:57:00

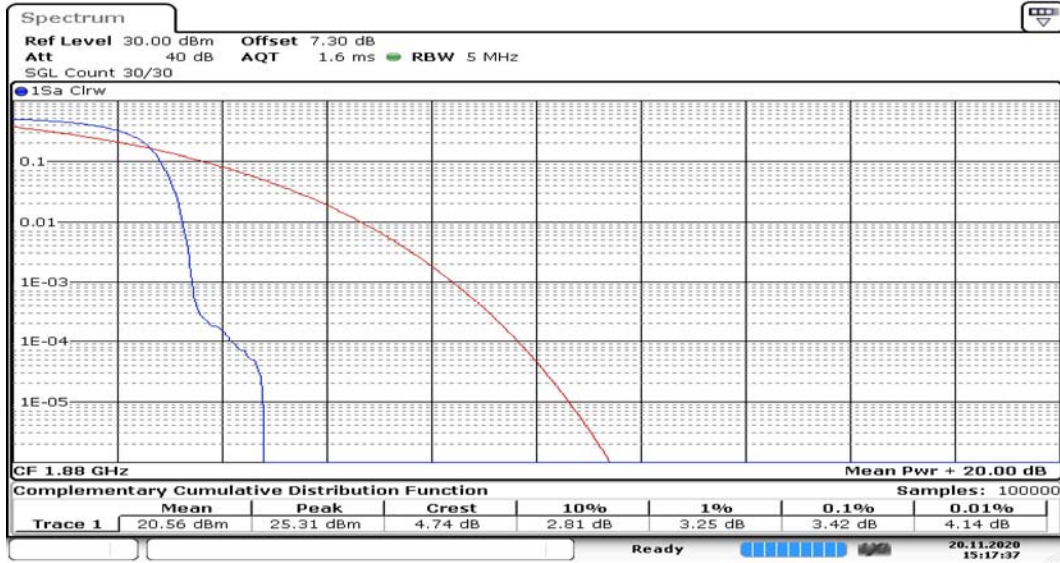
Channel 9538

HSDPA Mode:



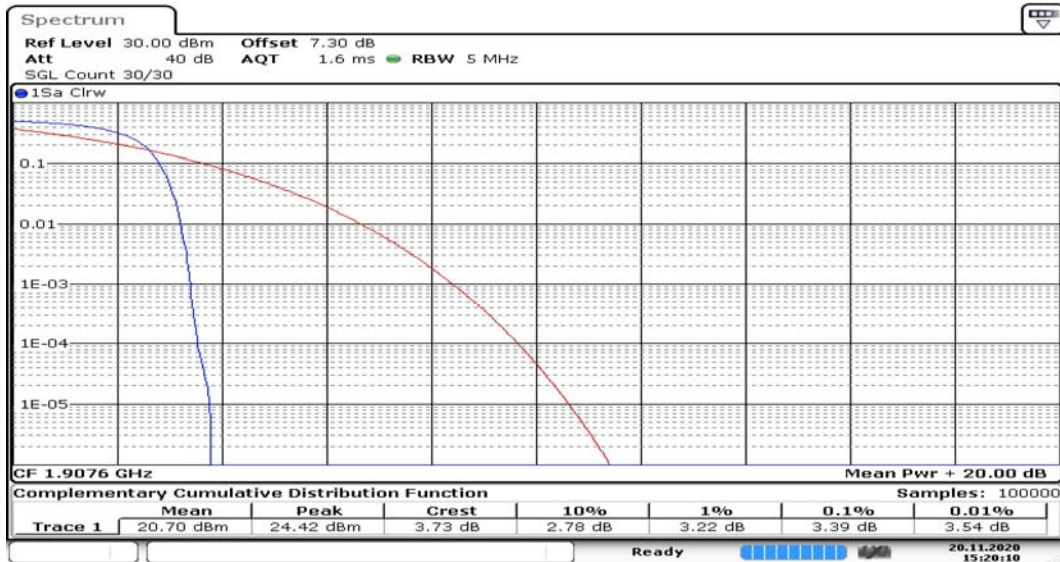
Date: 20.NOV.2020 15:14:54

Channel 9262



Date: 20.NOV.2020 15:17:38

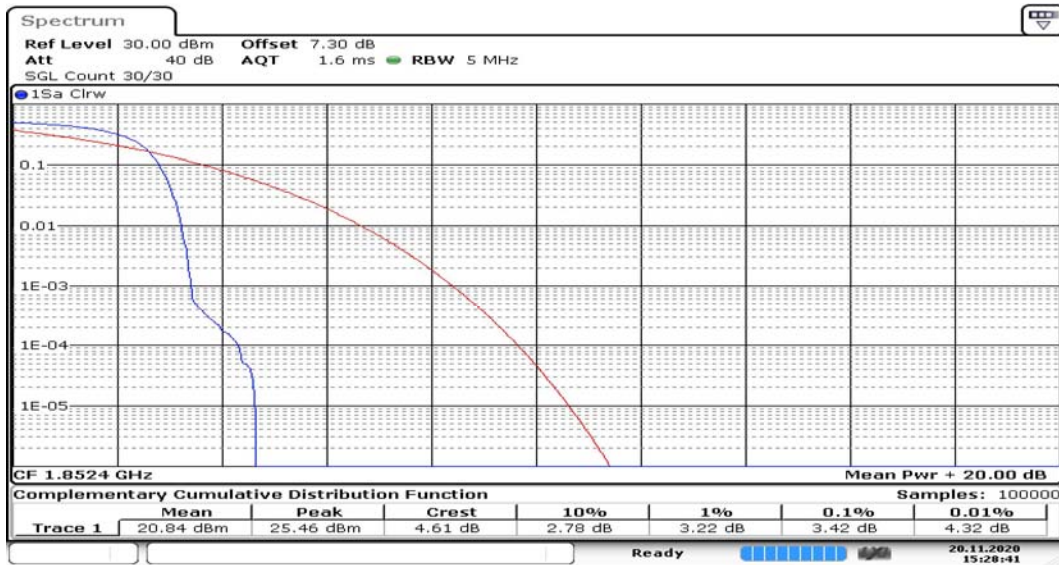
Channel 9400



Date: 20.NOV.2020 15:20:10

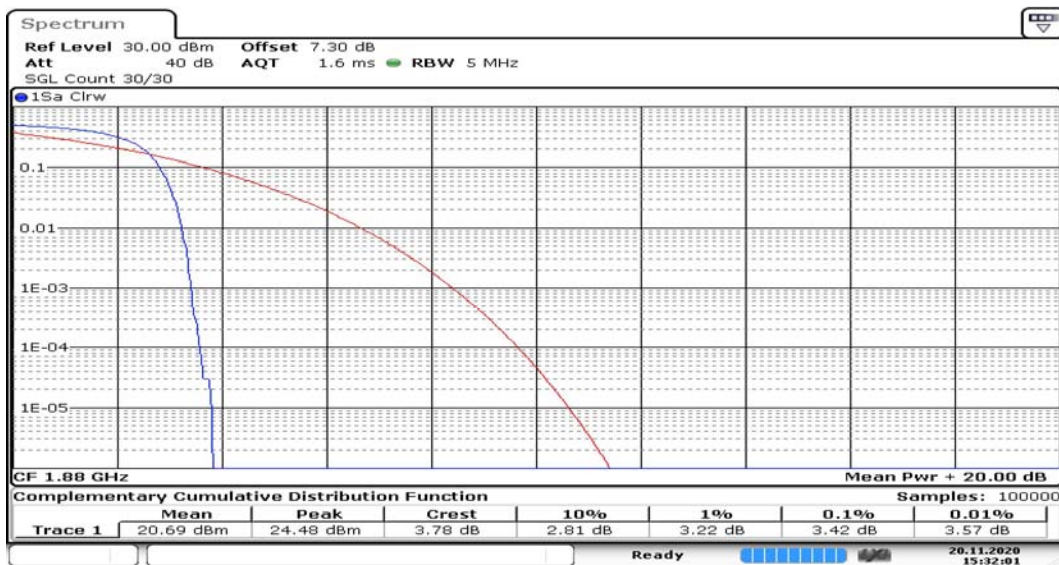
Channel 9538

HSUPA Mode:



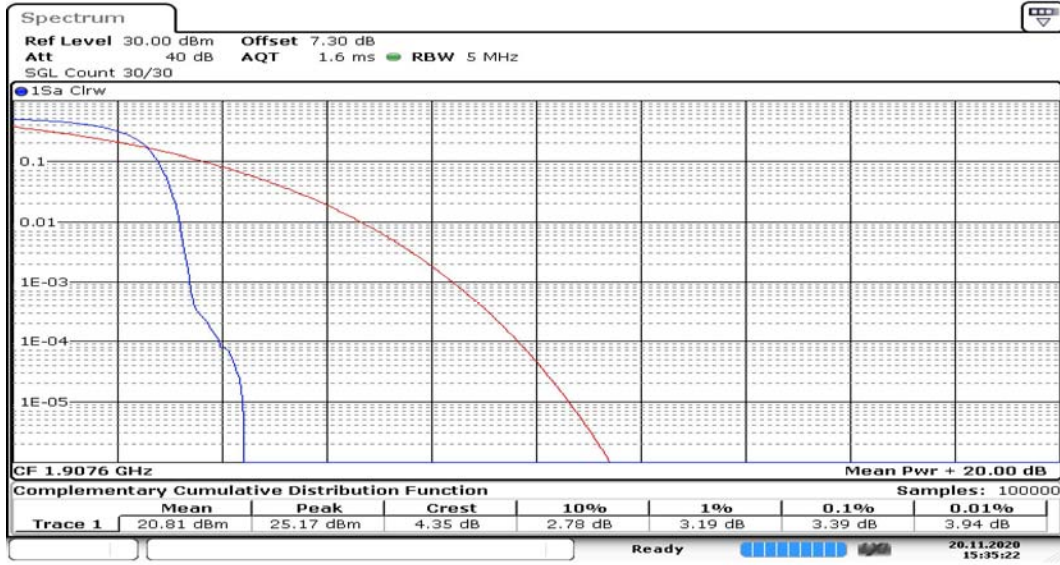
Date: 20.NOV.2020 15:28:42

Channel 9262



Date: 20.NOV.2020 15:32:01

Channel 9400



Date: 20.NOV.2020 15:35:22

Channel 9538

**Effective Radiated Power and Effective Isotropic Radiated Power**  
WCDMA band II

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC, 12.2 kbps	1852.4	9262	22.18	21.49	0.141
		1880	9400	22.19	21.50	0.141
		1907.6	9538	22.24	21.55	0.143
HSDPA	Subtest1	1852.4	9262	22.01	21.32	0.136
		1880	9400	21.83	21.14	0.130
		1907.6	9538	21.91	21.22	0.132
	Subtest2	1852.4	9262	22.01	21.32	0.136
		1880	9400	21.83	21.14	0.130
		1907.6	9538	21.91	21.22	0.132
	Subtest3	1852.4	9262	22.01	21.32	0.136
		1880	9400	21.83	21.14	0.130
		1907.6	9538	21.91	21.22	0.132
	Subtest4	1852.4	9262	22.01	21.32	0.136
		1880	9400	21.83	21.14	0.130
		1907.6	9538	21.91	21.22	0.132
HSUPA	Subtest1	1852.4	9262	21.83	21.14	0.130
		1880	9400	21.74	21.05	0.127
		1907.6	9538	21.85	21.16	0.131
	Subtest2	1852.4	9262	21.83	21.14	0.130
		1880	9400	21.74	21.05	0.127
		1907.6	9538	21.85	21.16	0.131
	Subtest3	1852.4	9262	21.83	21.14	0.130
		1880	9400	21.74	21.05	0.127
		1907.6	9538	21.85	21.16	0.131
	Subtest4	1852.4	9262	21.83	21.14	0.130
		1880	9400	21.74	21.05	0.127
		1907.6	9538	21.85	21.16	0.131
	Subtest5	1852.4	9262	21.83	21.14	0.130
		1880	9400	21.74	21.05	0.127

		1907.6	9538	21.85	21.16	0.131
HSPA+	QPSK	1852.4	9262	21.87	21.18	0.131
		1880	9400	21.74	21.05	0.127
		1907.6	9538	21.84	21.15	0.130
	16QAM	1852.4	9262	21.87	21.18	0.131
		1880	9400	21.74	21.05	0.127
		1907.6	9538	21.84	21.15	0.130
DC-HSDPA	Subtest1	1852.4	9262	21.92	21.23	0.133
		1880	9400	21.79	21.10	0.129
		1907.6	9538	21.93	21.24	0.133
	Subtest2	1852.4	9262	21.92	21.23	0.133
		1880	9400	21.79	21.10	0.129
		1907.6	9538	21.93	21.24	0.133
	Subtest3	1852.4	9262	21.92	21.23	0.133
		1880	9400	21.79	21.10	0.129
		1907.6	9538	21.93	21.24	0.133
	Subtest4	1852.4	9262	21.92	21.23	0.133
		1880	9400	21.79	21.10	0.129
		1907.6	9538	21.93	21.24	0.133



WCDMA Band IV  
**RF Power Output**  
WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC, 12.2kbps	1712.4	1312	21.43
		1732.6	1413	21.41
		1752.6	1513	21.52
HSDPA	Subtest1	1712.4	1312	19.36
		1732.6	1413	19.88
		1752.6	1513	19.83
	Subtest2	1712.4	1312	19.36
		1732.6	1413	19.88
		1752.6	1513	19.83
	Subtest3	1712.4	1312	19.36
		1732.6	1413	19.88
		1752.6	1513	19.83
	Subtest4	1712.4	1312	19.36
		1732.6	1413	19.88
		1752.6	1513	19.83
HSUPA	Subtest1	1712.4	1312	20.78
		1732.6	1413	21.22
		1752.6	1513	21.29
	Subtest2	1712.4	1312	20.78
		1732.6	1413	21.22
		1752.6	1513	21.29
	Subtest3	1712.4	1312	20.78
		1732.6	1413	21.22
		1752.6	1513	21.29
	Subtest4	1712.4	1312	20.78
		1732.6	1413	21.22
		1752.6	1513	21.29
	Subtest5	1712.4	1312	20.78
		1732.6	1413	21.22
		1752.6	1513	21.29
HSPA+	QPSK	1712.4	1312	20.77
		1732.6	1413	21.24
		1752.6	1513	21.32
	16QAM	1712.4	1312	20.77
		1732.6	1413	21.24
		1752.6	1513	21.32

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest1	1712.4	1312	20.84
		1732.6	1413	21.26
		1752.6	1513	21.39
	Subtest2	1712.4	1312	20.84
		1732.6	1413	21.26
		1752.6	1513	21.39
	Subtest3	1712.4	1312	20.84
		1732.6	1413	21.26
		1752.6	1513	21.39
	Subtest4	1712.4	1312	20.84
		1732.6	1413	21.26
		1752.6	1513	21.39

**Occupied Bandwidth**

WCDMA band IV

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1712.4	1312	4.14
1732.6	1413	4.15
1752.6	1513	4.15

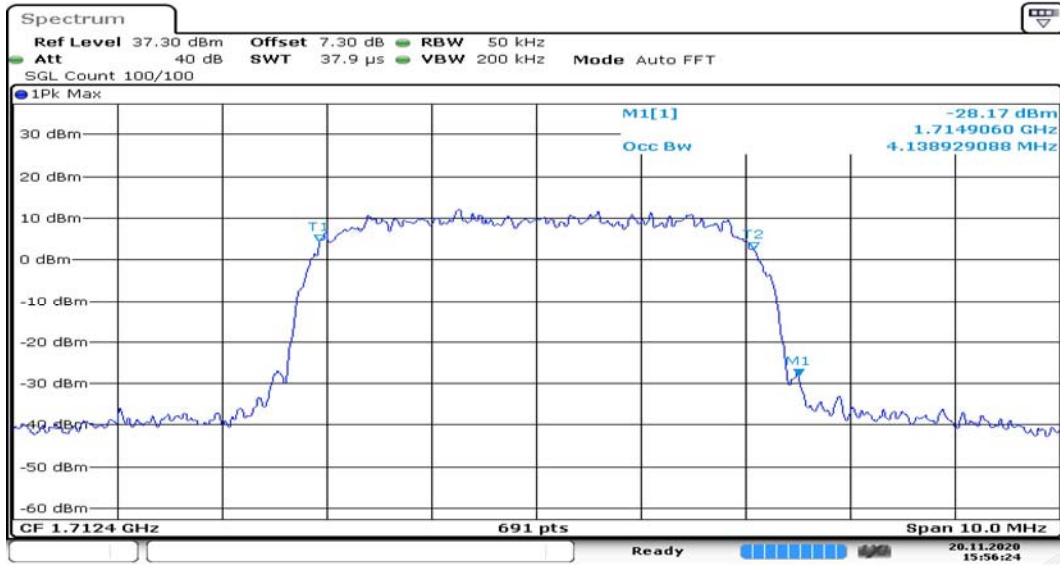
HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1712.4	1312	4.14
1732.6	1413	4.15
1752.6	1513	4.14

HSUPA Mode:

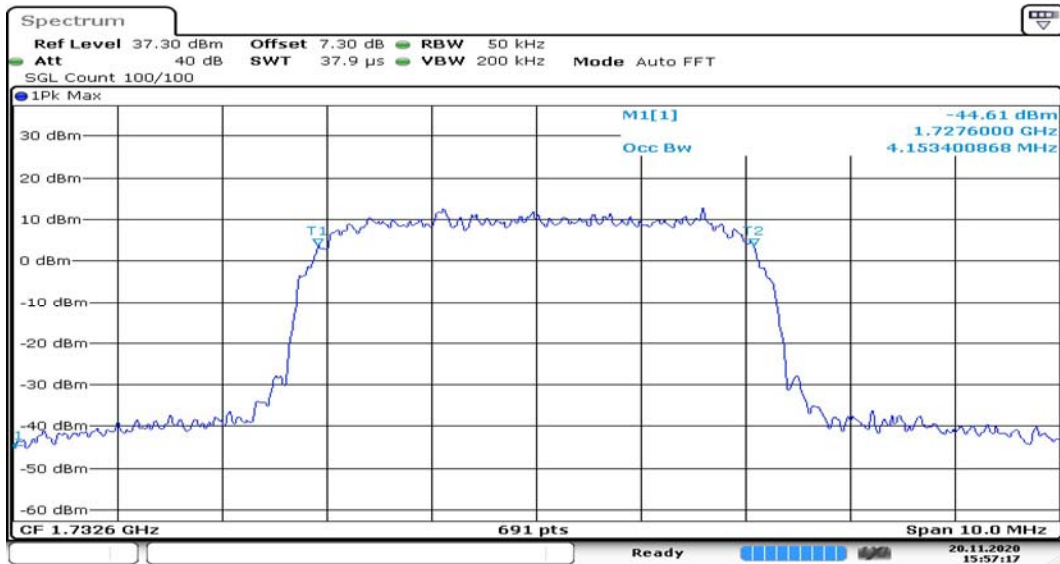
Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1712.4	1312	4.14
1732.6	1413	4.17
1752.6	1513	4.14

WCDMA band IV  
REL99 Mode:



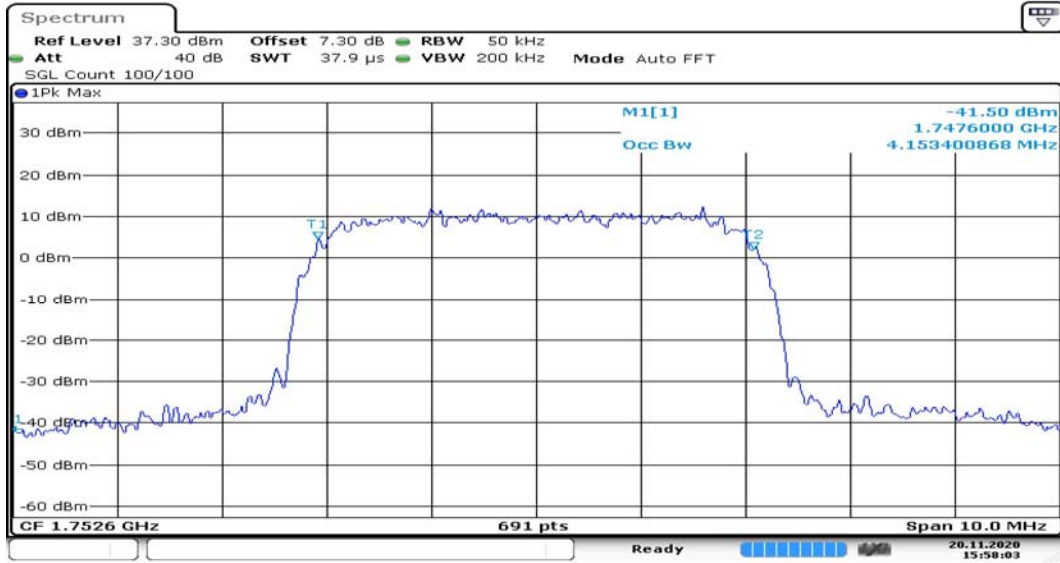
Date: 20.NOV.2020 15:56:25

Channel 1312



Date: 20.NOV.2020 15:57:18

Channel 1413



Date: 20.NOV.2020 15:58:03

Channel 1513

HSDPA Mode:



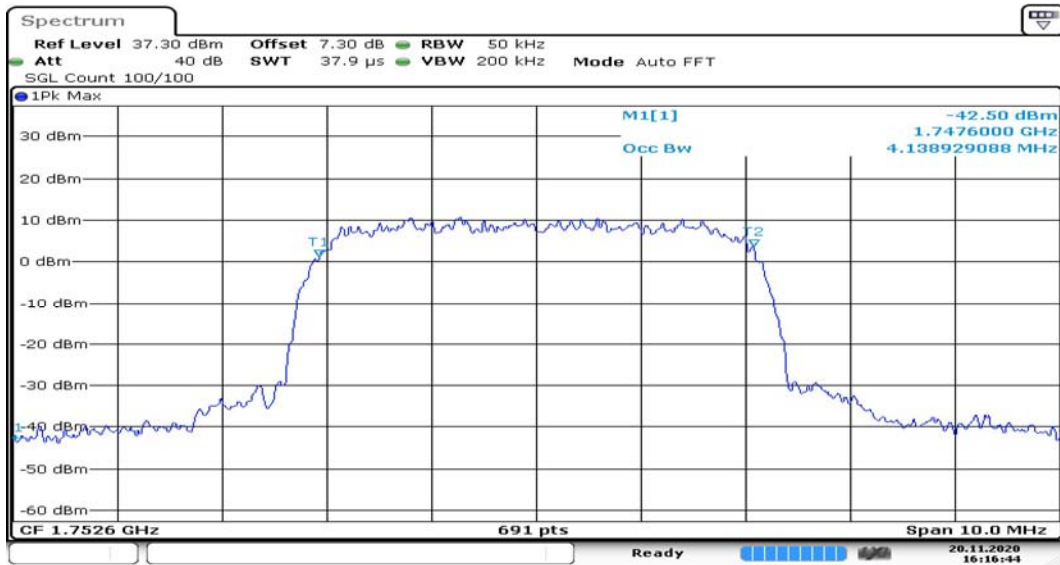
Date: 20.NOV.2020 16:11:09

Channel 1312



Date: 20.NOV.2020 16:14:08

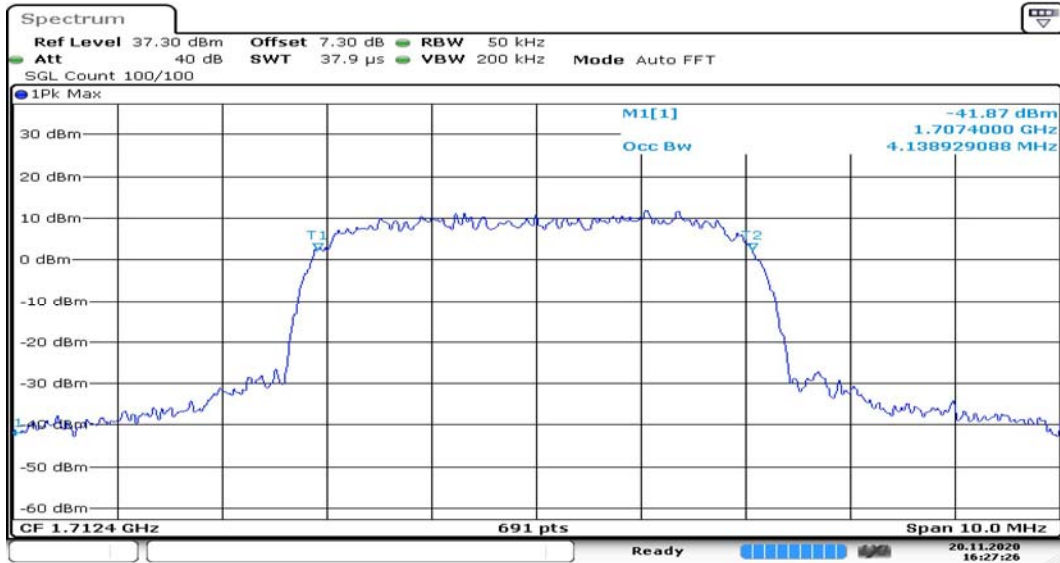
Channel 1413



Date: 20.NOV.2020 16:16:45

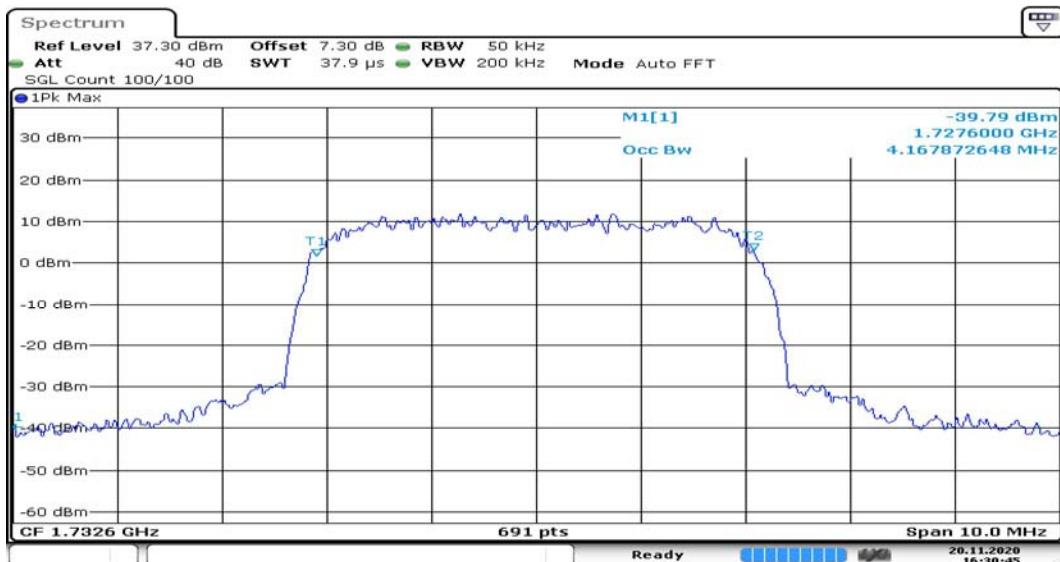
Channel 1513

HSUPA Mode:



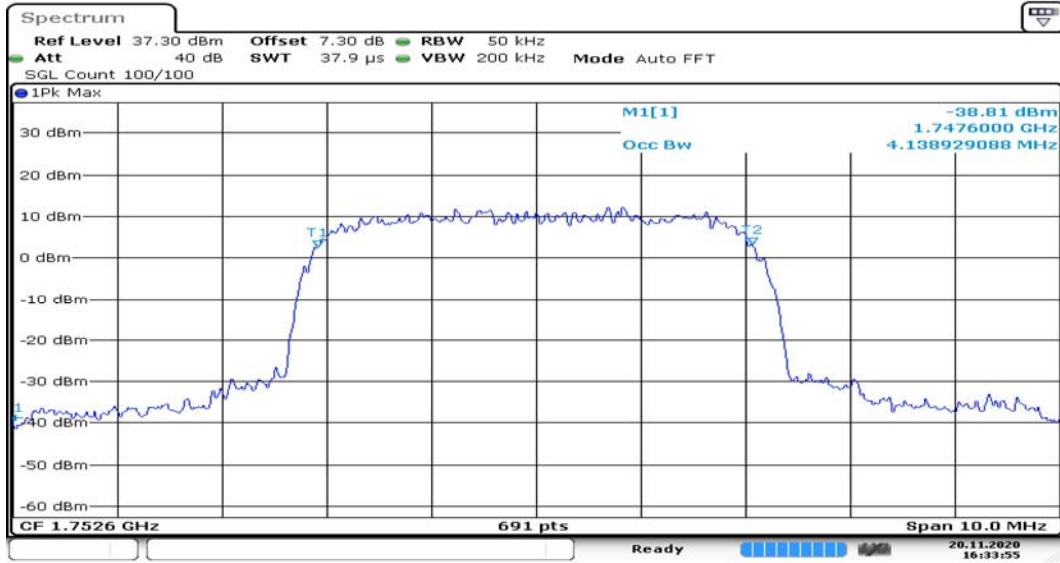
Date: 20.NOV.2020 16:27:26

Channel 1312



Date: 20.NOV.2020 16:30:46

Channel 1413



Date: 20. NOV. 2020 16:33:56

Channel 1513



**Emission Bandwidth**

WCDMA band IV

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.63
1732.6	1413	4.65
1752.6	1513	4.65

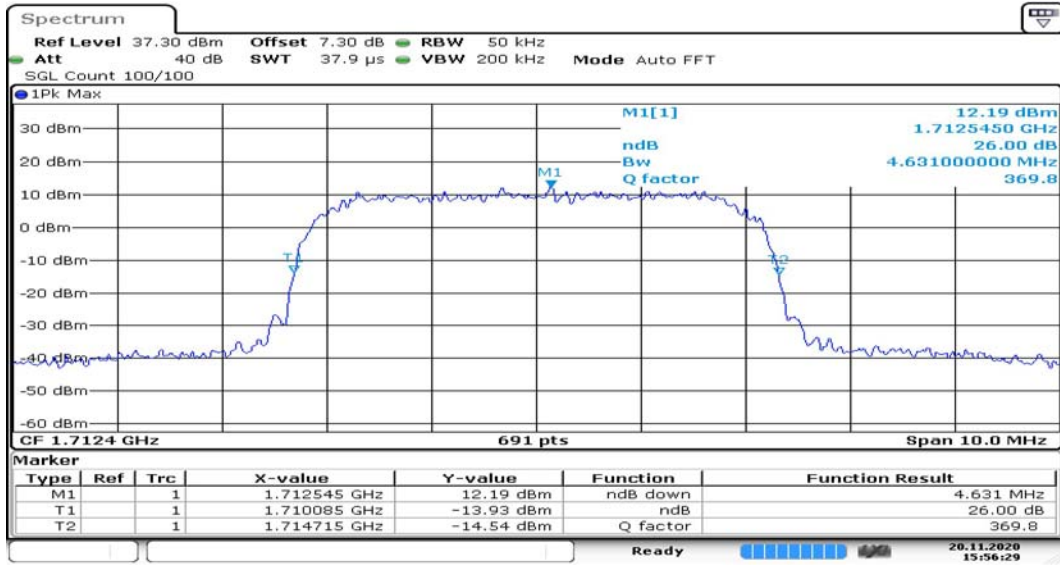
HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.67
1732.6	1413	4.66
1752.6	1513	4.62

HSUPA Mode:

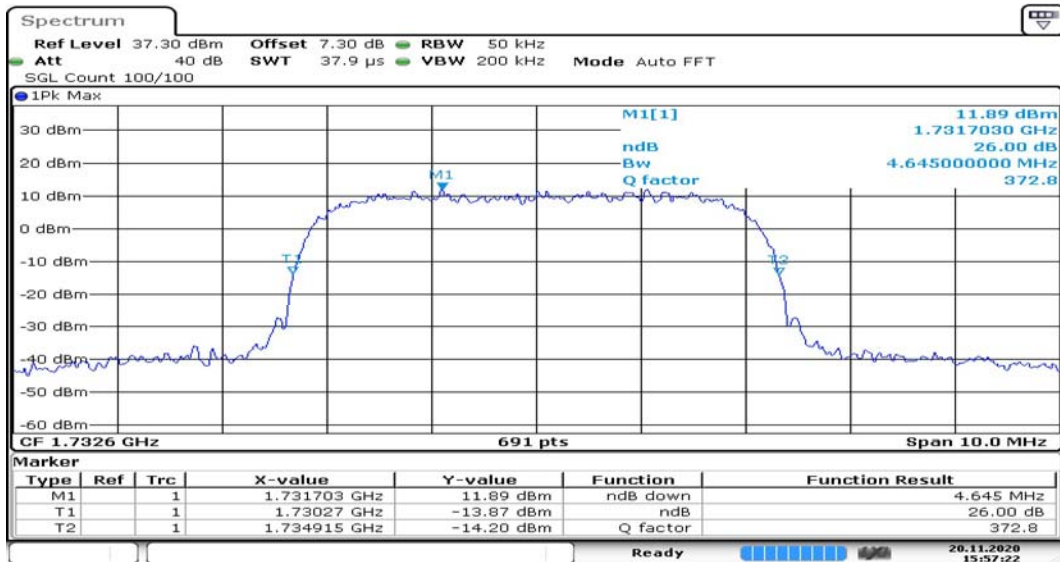
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.63
1732.6	1413	4.66
1752.6	1513	4.63

WCDMA band IV  
REL99 Mode:



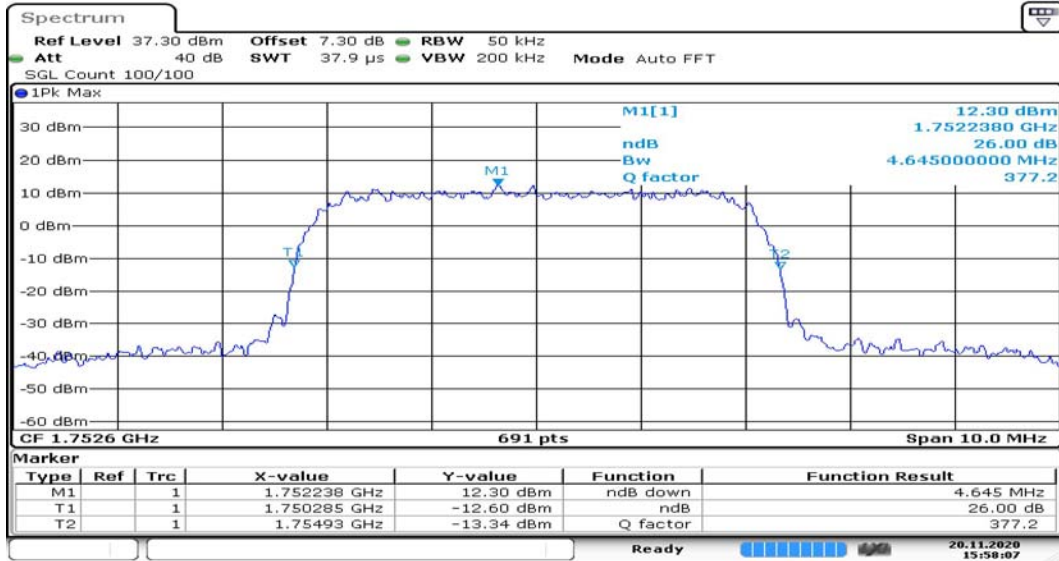
Date: 20.NOV.2020 15:56:29

Channel 1312



Date: 20.NOV.2020 15:57:22

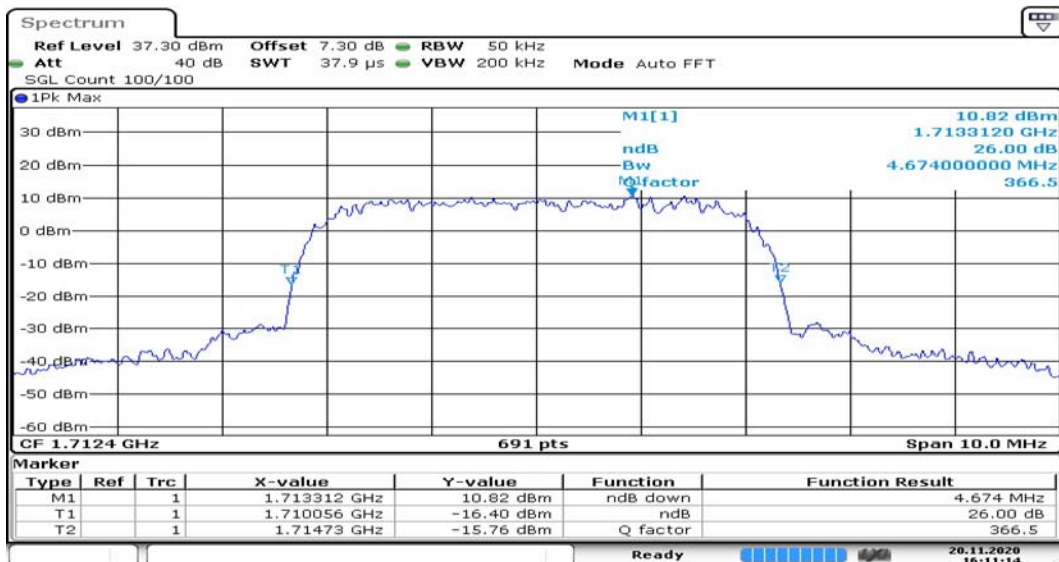
Channel 1413



Date: 20.NOV.2020 15:58:07

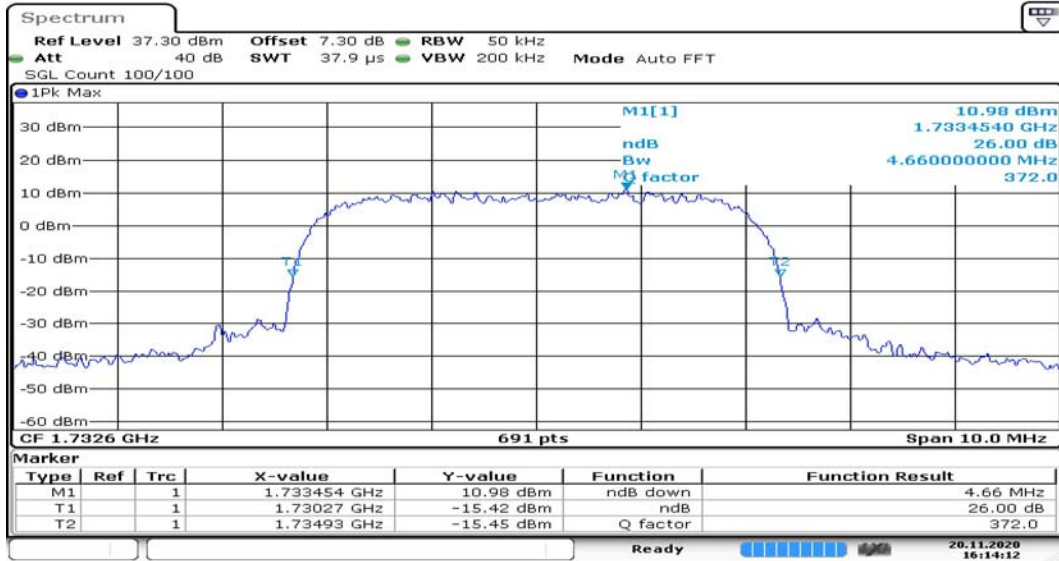
### Channel 1513

### HSDPA Mode:



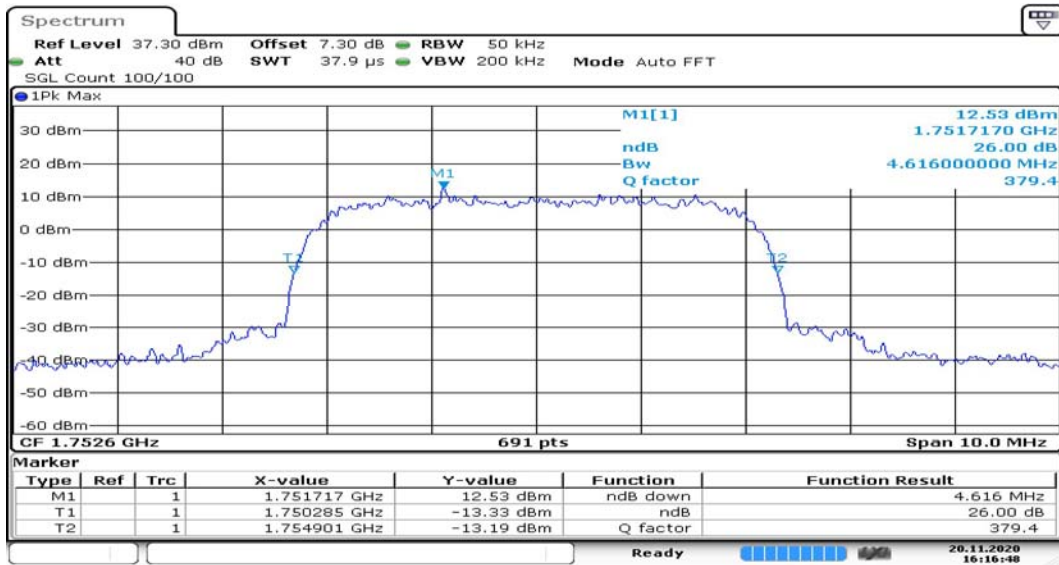
Date: 20.NOV.2020 16:11:13

### Channel 1312



Date: 20.NOV.2020 16:14:13

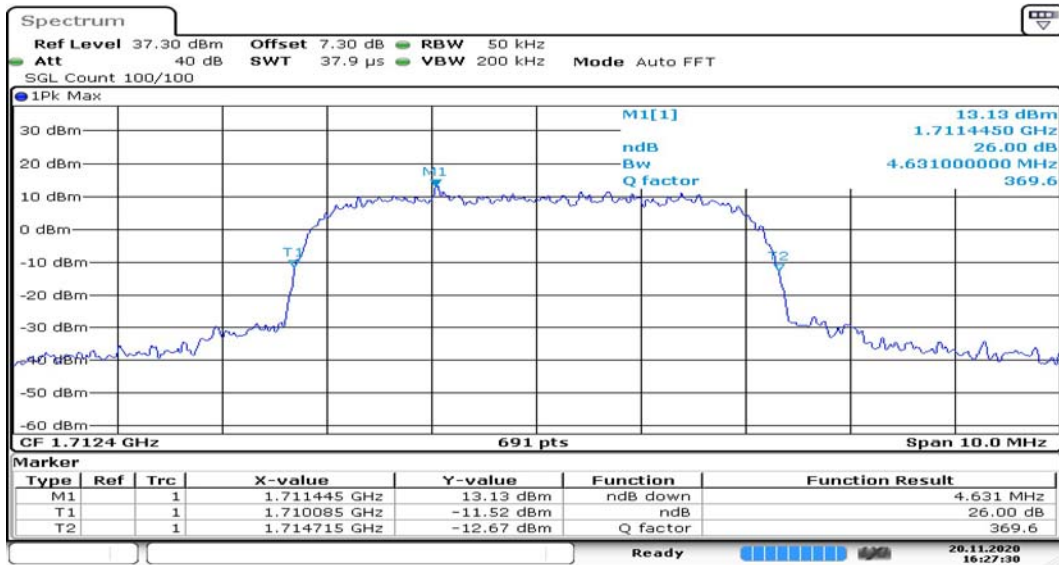
### Channel 1413



Date: 20.NOV.2020 16:16:49

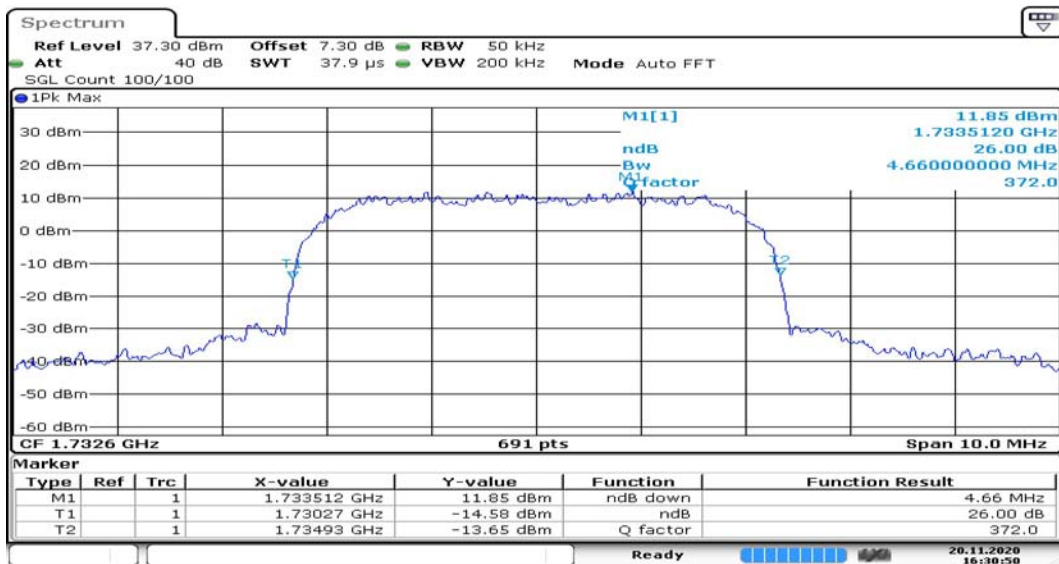
### Channel 1513

HSUPA Mode:



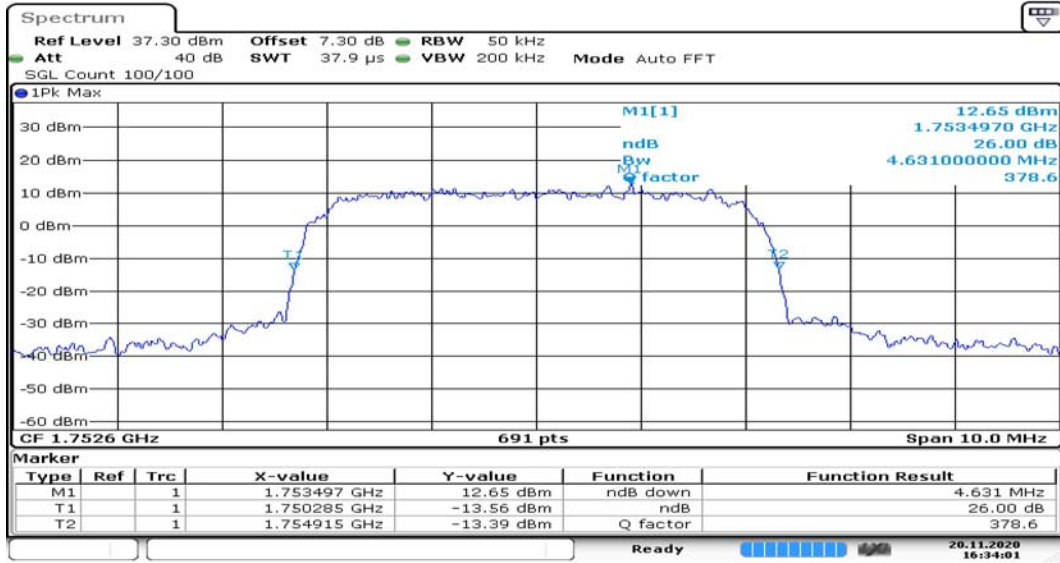
Date: 20.NOV.2020 16:27:31

Channel 1312



Date: 20.NOV.2020 16:30:50

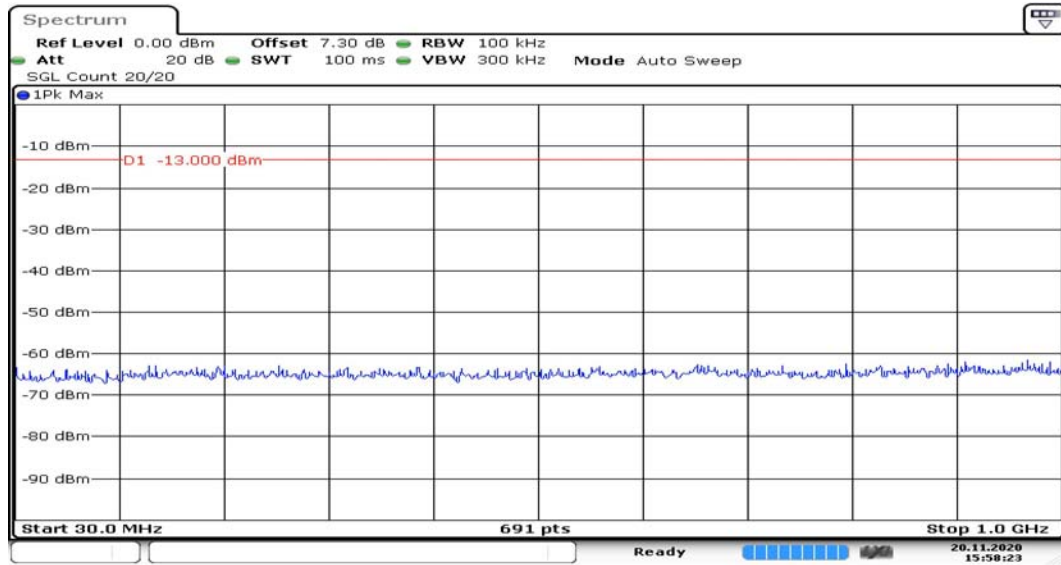
Channel 1413



Date: 20.NOV.2020 16:34:00

Channel 1513

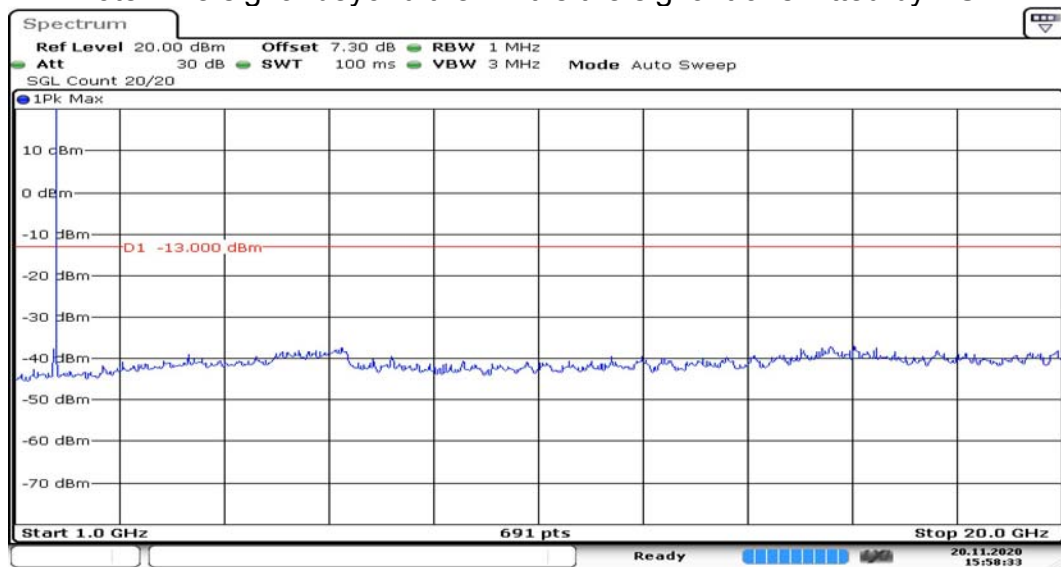
**Spurious Emissions at antenna terminal**  
WCDMA band IV  
REL99 Mode:



Date: 20.NOV.2020 15:58:24

**Channel 1413 30MHz~1GHz**

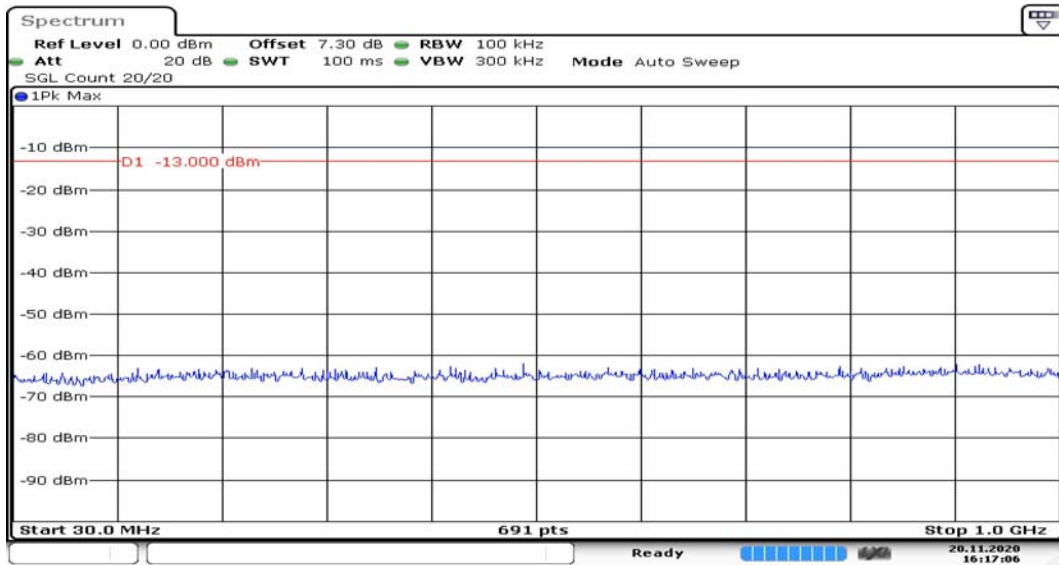
Note: The signal beyond the limit is the signal transmitted by EUT.



Date: 20.NOV.2020 15:58:33

**Channel 1413 1GHz~20GHz**

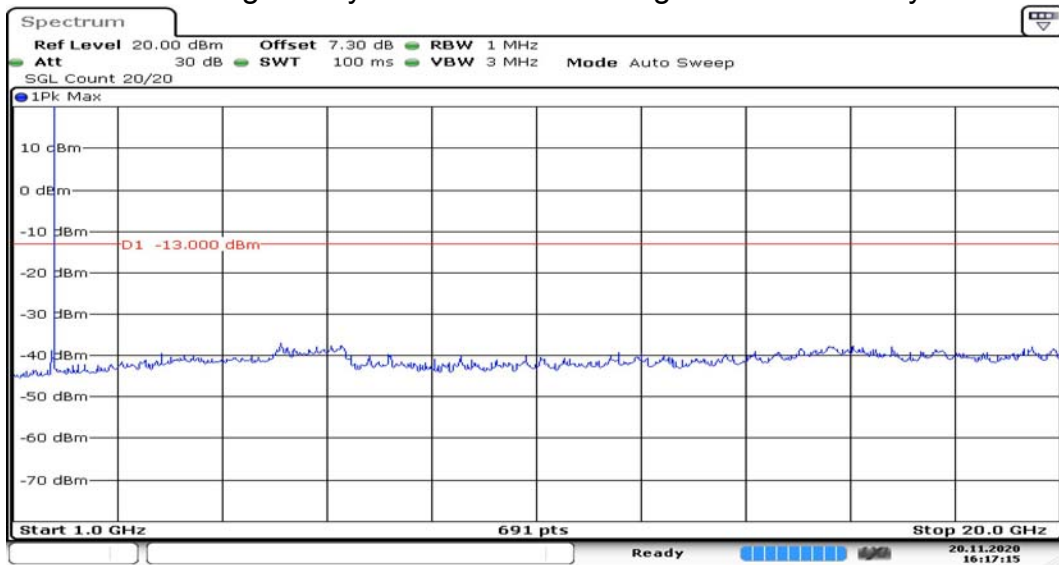
HSDPA Mode:



Date: 20.NOV.2020 16:17:06

Channel 1413 30MHz~1GHz

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

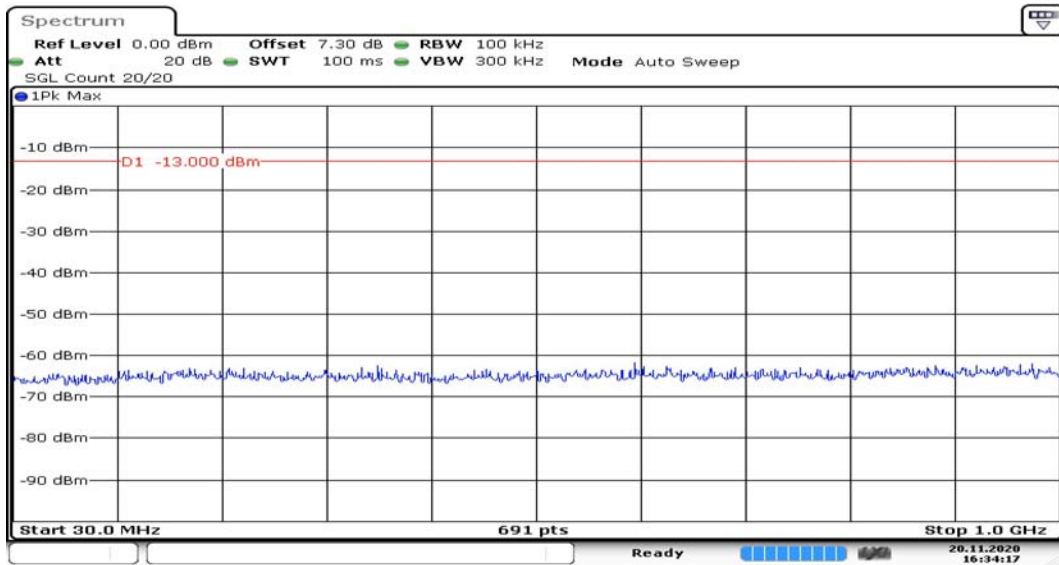


Date: 20.NOV.2020 16:17:15

Channel 1413 1GHz~20GHz



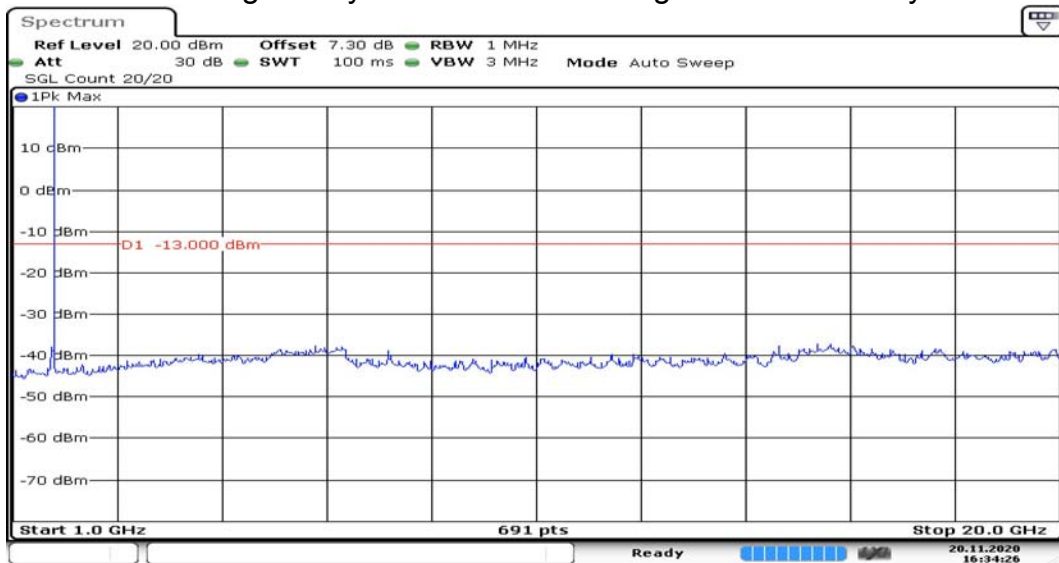
HSUPA Mode:



Date: 20.NOV.2020 16:34:17

Channel 1413 30MHz~1GHz

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



Date: 20.NOV.2020 16:34:26

Channel 1413 1GHz~20GHz

**Band Edges Compliance**  
WCDMA band IV  
REL99 Mode:



Date: 20.NOV.2020 16:28:05

Channel 1312



Date: 20.NOV.2020 16:34:34

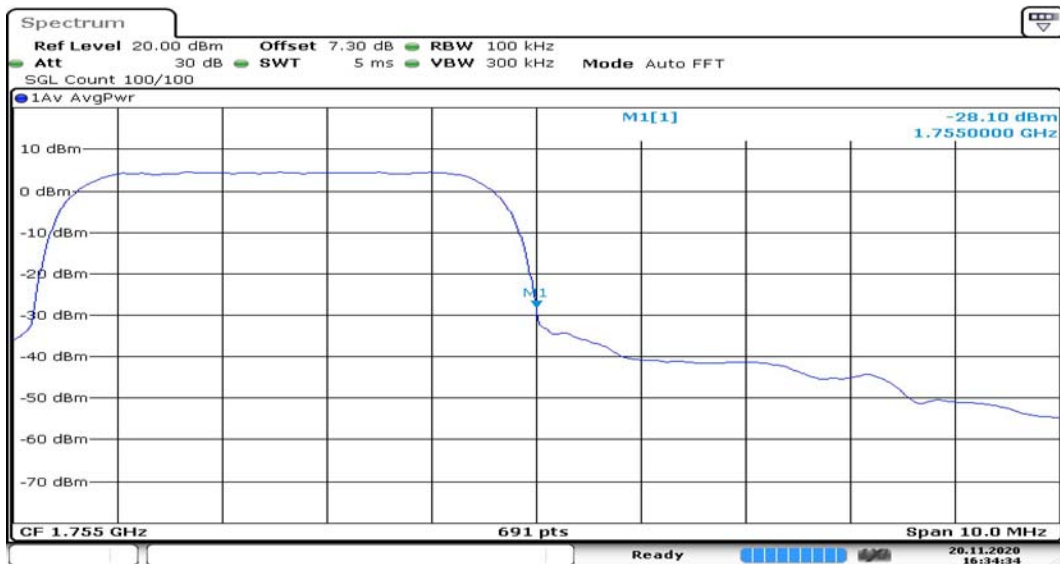
Channel 1513

HSDPA Mode:



Date: 20.NOV.2020 16:28:05

Channel 1312



Date: 20.NOV.2020 16:34:34

Channel 1513

HSUPA Mode:



Date: 20.NOV.2020 16:28:05

Channel 1312



Date: 20.NOV.2020 16:34:34

Channel 1513

**Frequency Stability**

WCDMA band IV

REL99 Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1413	Channel 1513
0	-0.001	-0.004	0.000
+10	0.001	-0.003	0.002
+20	0.000	0.000	0.000
+30	0.001	-0.002	-0.002
+40	-0.002	-0.002	0.001
+50	-0.002	-0.002	-0.001
Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1413	Channel 1513
LV	0.000	-0.005	-0.002
HV	-0.001	-0.004	-0.001

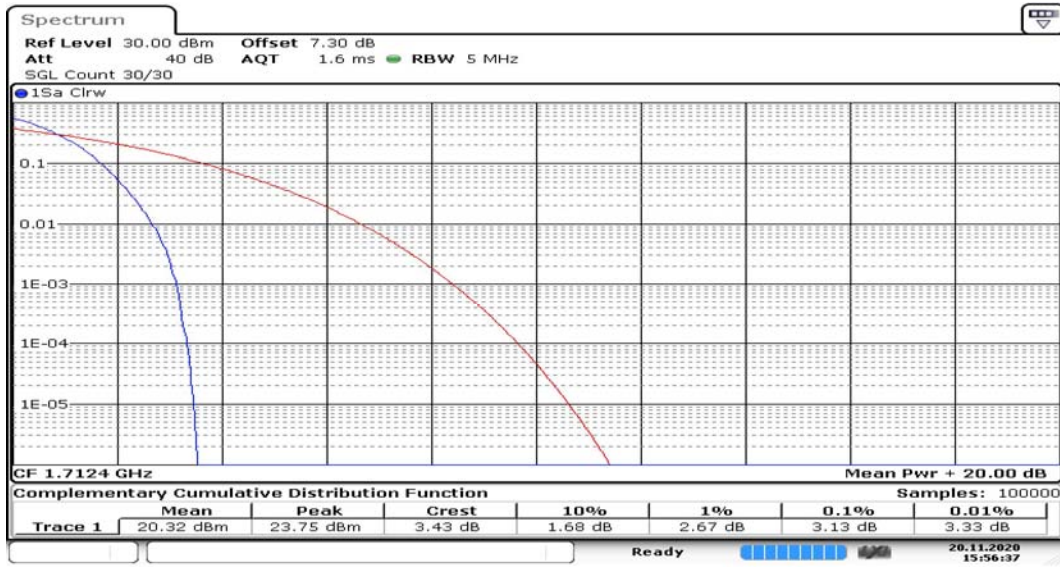
HSDPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1413	Channel 1513
0	0.000	-0.003	0.000
+10	-0.001	-0.002	-0.001
+20	0.000	0.000	0.000
+30	-0.001	-0.002	0.000
+40	0.000	-0.002	-0.001
+50	0.002	-0.004	0.000
Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1413	Channel 1513
LV	0.001	-0.001	-0.001
HV	0.000	-0.002	0.002

HSUPA Mode:

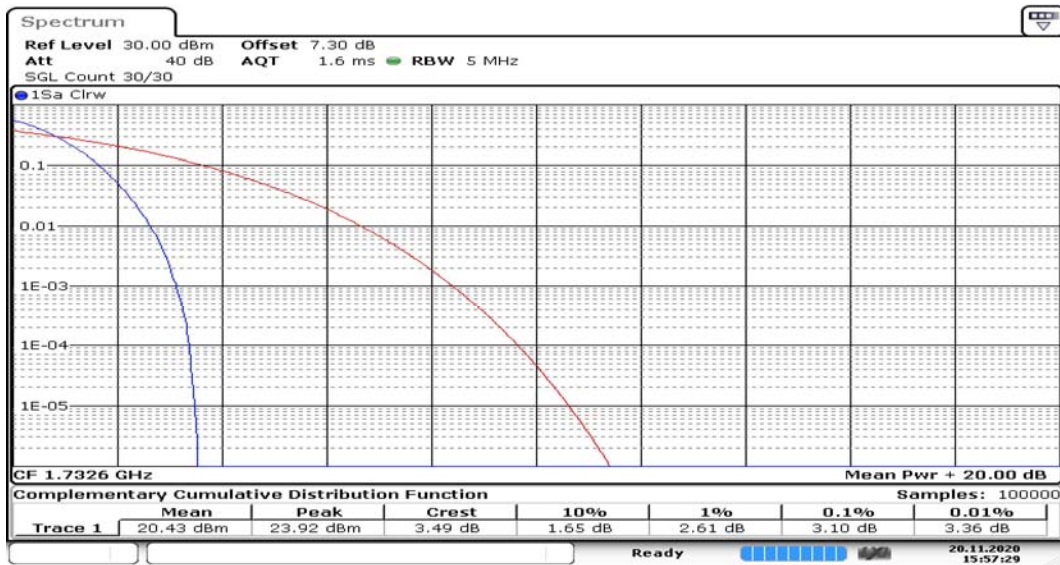
Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1413	Channel 1513
0	0.002	0.005	-0.003
+10	0.006	0.006	-0.002
+20	0.000	0.000	0.000
+30	0.007	0.007	-0.001
+40	0.002	-0.001	-0.004
+50	0.002	-0.001	-0.001
Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1413	Channel 1513
LV	0.001	0.004	-0.001
HV	0.003	-0.001	-0.001

**Peak-Average Ratio**  
WCDMA band IV  
REL99 Mode:



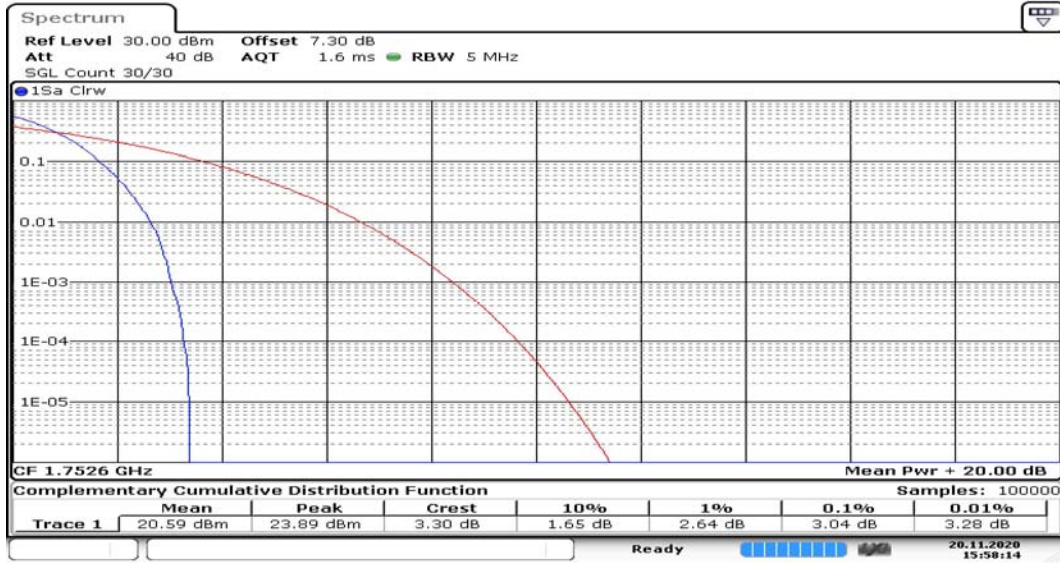
Date: 20.NOV.2020 15:56:36

Channel 1312



Date: 20.NOV.2020 15:57:29

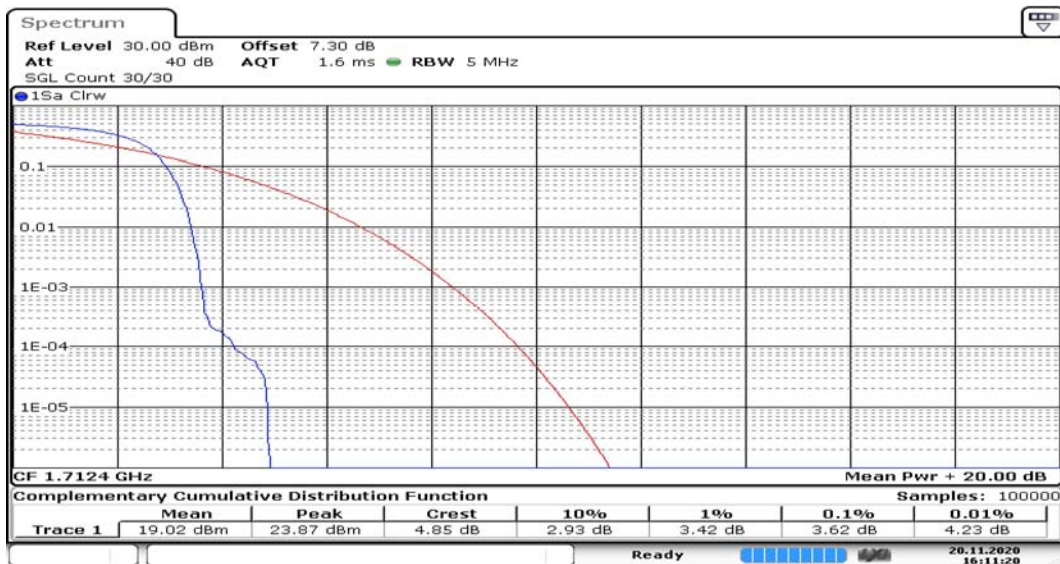
Channel 1413



Date: 20.NOV.2020 15:58:14

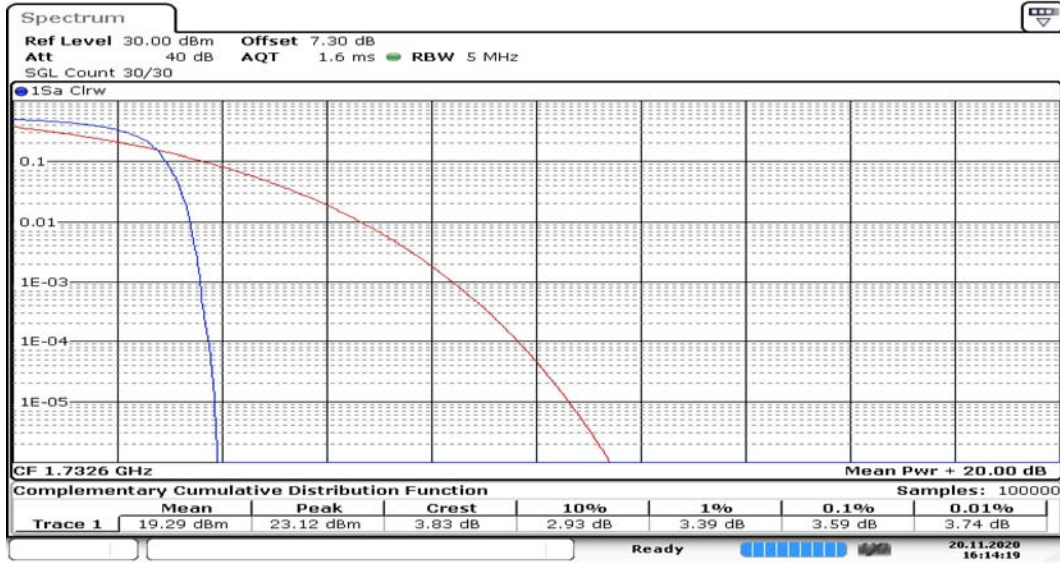
Channel 1513

HSDPA Mode:



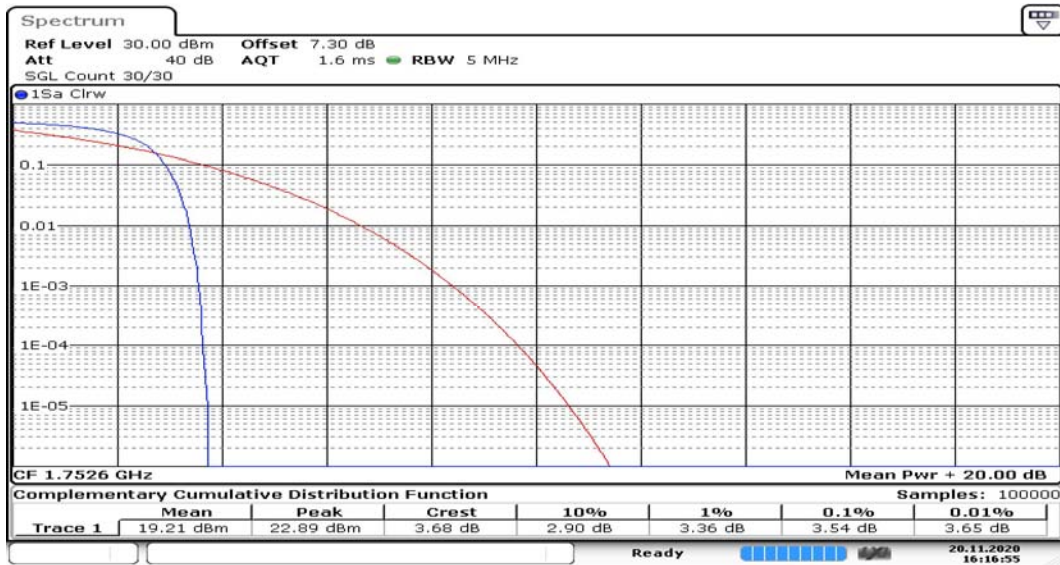
Date: 20.NOV.2020 16:11:20

Channel 1312



Date: 20.NOV.2020 16:14:20

Channel 1413

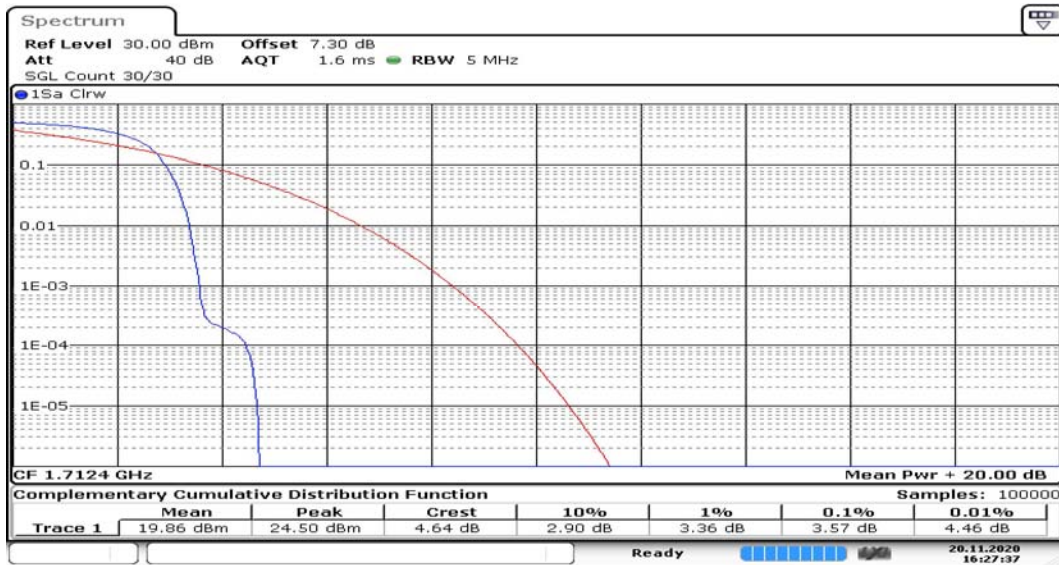


Date: 20.NOV.2020 16:16:56

Channel 1513

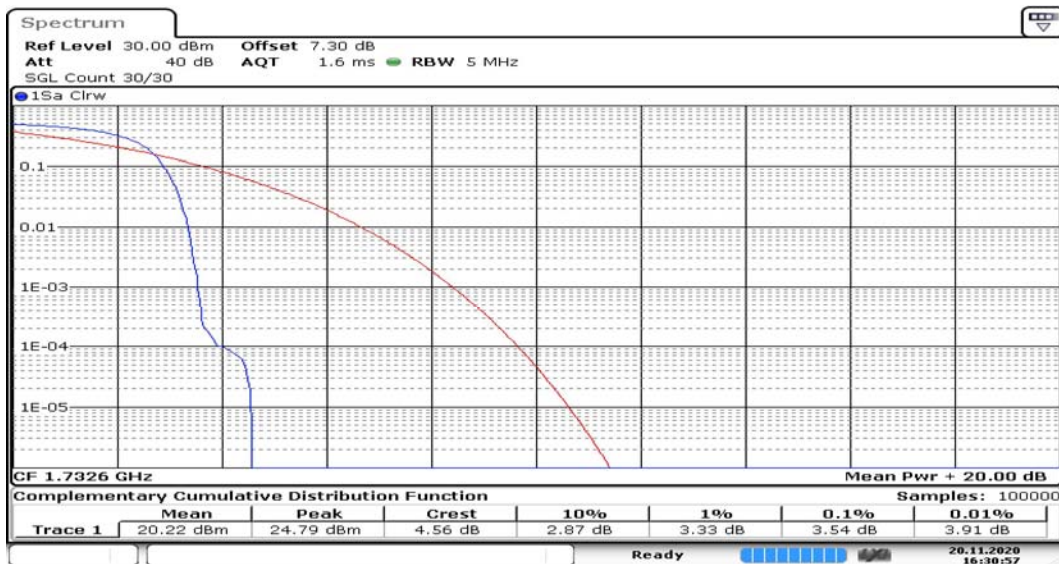


HSUPA Mode:



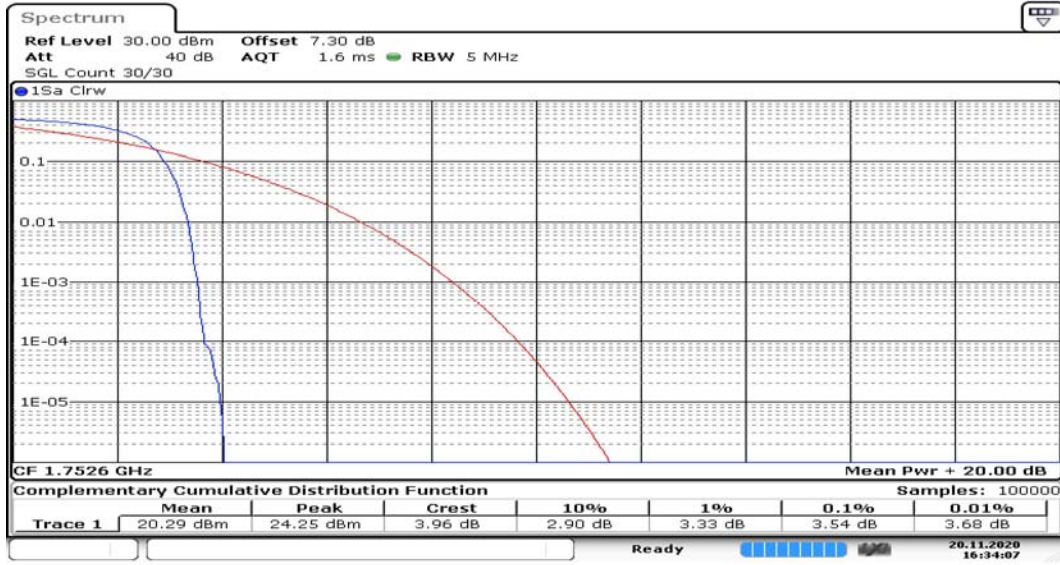
Date: 20.NOV.2020 16:27:38

Channel 1312



Date: 20.NOV.2020 16:30:57

Channel 1413



Date: 20.NOV.2020 16:34:07

Channel 1513

**Effective Radiated Power and Effective Isotropic Radiated Power**

WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC,12.2 kbps	1712.4	1312	21.43	20.80	0.120
		1732.6	1413	21.41	20.78	0.120
		1752.6	1513	21.52	20.89	0.123
HSDPA	Subtest1	1712.4	1312	19.36	18.73	0.075
		1732.6	1413	19.88	19.25	0.084
		1752.6	1513	19.83	19.20	0.083
	Subtest2	1712.4	1312	19.36	18.73	0.075
		1732.6	1413	19.88	19.25	0.084
		1752.6	1513	19.83	19.20	0.083
	Subtest3	1712.4	1312	19.36	18.73	0.075
		1732.6	1413	19.88	19.25	0.084
		1752.6	1513	19.83	19.20	0.083
	Subtest4	1712.4	1312	19.36	18.73	0.075
		1732.6	1413	19.88	19.25	0.084
		1752.6	1513	19.83	19.20	0.083
HSUPA	Subtest1	1712.4	1312	20.78	20.15	0.104
		1732.6	1413	21.22	20.59	0.115
		1752.6	1513	21.29	20.66	0.116
	Subtest2	1712.4	1312	20.78	20.15	0.104
		1732.6	1413	21.22	20.59	0.115
		1752.6	1513	21.29	20.66	0.116
	Subtest3	1712.4	1312	20.78	20.15	0.104
		1732.6	1413	21.22	20.59	0.115
		1752.6	1513	21.29	20.66	0.116
	Subtest4	1712.4	1312	20.78	20.15	0.104
		1732.6	1413	21.22	20.59	0.115
		1752.6	1513	21.29	20.66	0.116
	Subtest5	1712.4	1312	20.78	20.15	0.104
		1732.6	1413	21.22	20.59	0.115
		1752.6	1513	21.29	20.66	0.116

HSPA+	QPSK	1712.4	1312	20.77	20.14	0.103
		1732.6	1413	21.24	20.61	0.115
		1752.6	1513	21.32	20.69	0.117
	16QAM	1712.4	1312	20.77	20.14	0.103
		1732.6	1413	21.24	20.61	0.115
		1752.6	1513	21.32	20.69	0.117
DC-HSDPA	Subtest1	1712.4	1312	20.84	20.21	0.105
		1732.6	1413	21.26	20.63	0.116
		1752.6	1513	21.39	20.76	0.119
	Subtest2	1712.4	1312	20.84	20.21	0.105
		1732.6	1413	21.26	20.63	0.116
		1752.6	1513	21.39	20.76	0.119
	Subtest3	1712.4	1312	20.84	20.21	0.105
		1732.6	1413	21.26	20.63	0.116
		1752.6	1513	21.39	20.76	0.119
	Subtest4	1712.4	1312	20.84	20.21	0.105
		1732.6	1413	21.26	20.63	0.116
		1752.6	1513	21.39	20.76	0.119

**WCDMA Band V**  
**RF Power Output**

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC, 12.2kbps	826.4	4132	21.88
		836.6	4183	21.61
		846.6	4233	22.18
HSDPA	Subtest1	826.4	4132	21.16
		836.6	4183	20.79
		846.6	4233	21.10
	Subtest2	826.4	4132	21.16
		836.6	4183	20.79
		846.6	4233	21.10
	Subtest3	826.4	4132	21.16
		836.6	4183	20.79
		846.6	4233	21.10
	Subtest4	826.4	4132	21.16
		836.6	4183	20.79
		846.6	4233	21.10
HSUPA	Subtest1	826.4	4132	21.64
		836.6	4183	21.50
		846.6	4233	21.84
	Subtest2	826.4	4132	21.64
		836.6	4183	21.50
		846.6	4233	21.84
	Subtest3	826.4	4132	21.64
		836.6	4183	21.50
		846.6	4233	21.84
	Subtest4	826.4	4132	21.64
		836.6	4183	21.50
		846.6	4233	21.84
	Subtest5	826.4	4132	21.64
		836.6	4183	21.50
		846.6	4233	21.84
HSPA+	QPSK	826.4	4132	21.63
		836.6	4183	21.46
		846.6	4233	21.84
	16QAM	826.4	4132	21.63
		836.6	4183	21.46
		846.6	4233	21.84

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest1	826.4	4132	21.73
		836.6	4183	21.50
		846.6	4233	21.88
	Subtest2	826.4	4132	21.73
		836.6	4183	21.50
		846.6	4233	21.88
	Subtest3	826.4	4132	21.73
		836.6	4183	21.50
		846.6	4233	21.88
	Subtest4	826.4	4132	21.73
		836.6	4183	21.50
		846.6	4233	21.88

**Occupied Bandwidth**

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.12
836.6	4183	4.17
846.6	4233	4.14

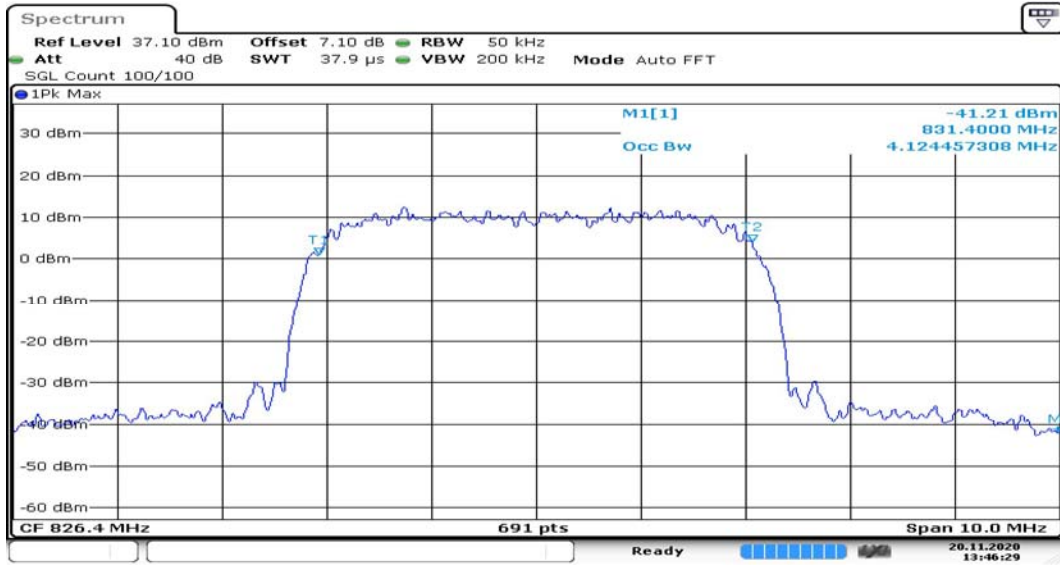
HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.15
836.6	4183	4.11
846.6	4233	4.15

HSUPA Mode:

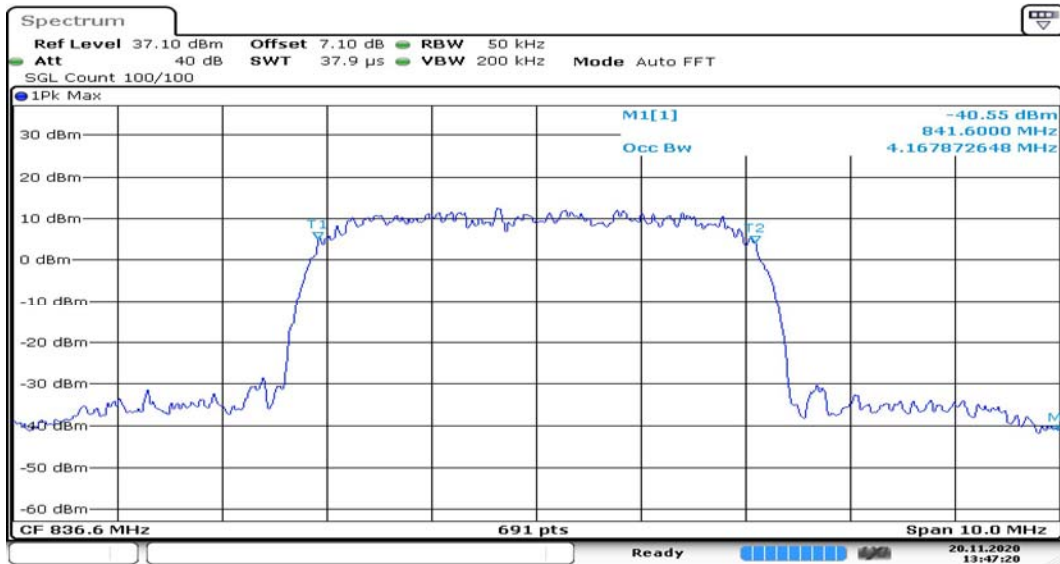
Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.17
836.6	4183	4.12
846.6	4233	4.14

WCDMA band V  
REL99 Mode:



Date: 20.NOV.2020 13:46:29

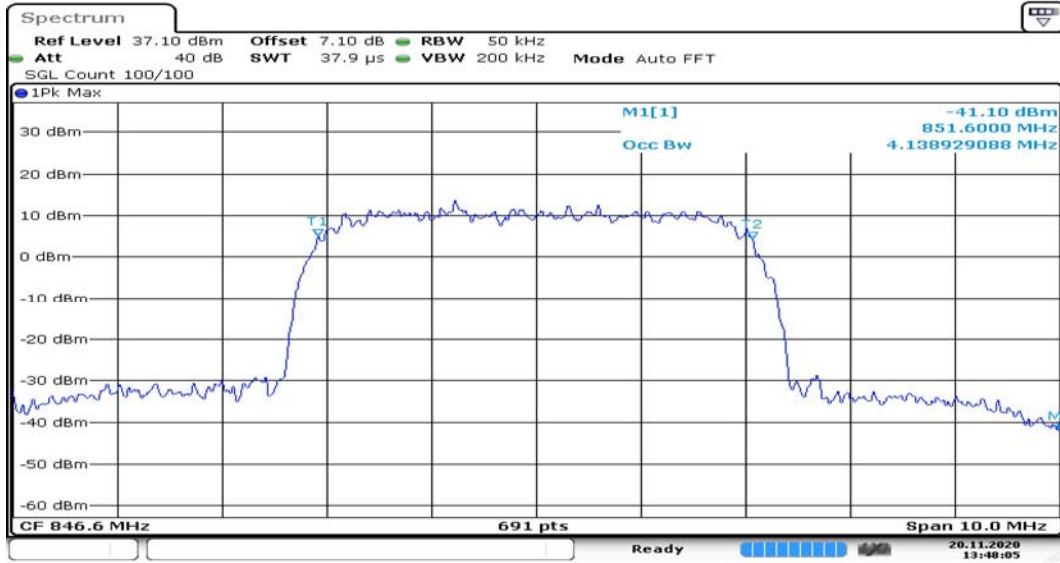
Channel 4132



Date: 20.NOV.2020 13:47:21

Channel 4183

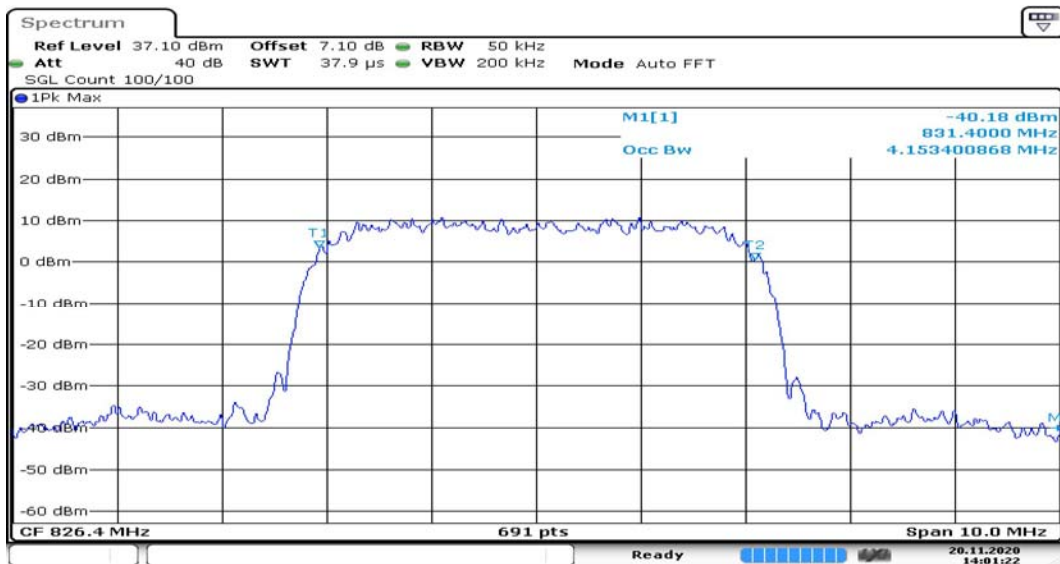




Date: 20.NOV.2020 13:48:05

Channel 4233

HSDPA Mode:



Date: 20.NOV.2020 14:01:22

Channel 4132