

TEST REPORT FOR WCDMA TESTING

Report No.: SRTC2020-9004(F)-20110604(B)

Product Name: 5G Wireless Router

Product Model: MC8010CA

Applicant: ZTE Corporation

Manufacturer: ZTE Corporation

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

FCC ID: SRQ-MC8010CA

The State Radio_monitoring_center Testing Center (SRTC)

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

Beijing, P.R.China

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1. GENERAL INFORMATION

1.1 Notes of the test report

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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
Contacted person:	Liu Jia
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1.3 Applicant's details

Company:	ZTE Corporation
Address:	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China
City:	Shenzhen
Country or Region:	China
Contacted person:	Gong Yu
Tel:	021-68895397
Fax:	---
Email:	gongyu@zte.com.cn

1.4 Manufacturer's details

Company:	ZTE Corporation
Address:	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China
City:	Shenzhen
Country or Region:	China
Contacted person:	Gong Yu
Tel:	021-68895397
Fax:	---
Email:	gongyu@zte.com.cn

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2020-11-06
Testing Start Date:	2020-11-06
Testing End Date:	2020-12-15

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	40
Maximum Extreme	55	---
Minimum Extreme	-20	---

Normal Supply Voltage (V d.c.):	12.0
Maximum Extreme Supply Voltage (V d.c.):	13.2
Minimum Extreme Supply Voltage (V d.c.):	10.8

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
Equipment Type	Fixed subscriber equipment
Antenna Type	Fixed Internal Antenna
Antenna Gain	W2: 2.0dBi/W4: 2.0dBi/W5: 1.0dBi
Power Supply	Charger
Hardware Version	MC8010CAHW1.0
Software Version	MC8010CAV1.2
IMEI	867428050000814

2.2 Support Equipment

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

Equipment	Charger1
Manufacturer	DOKOCOM
Model Number	STC-A2O120150C55
Equipment	Charger2
Manufacturer	Ruijing
Model Number	STC-A2O120150C55

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	25.74	0.375	0.012	4M18F9W
22H	826.4-846.6	22.69	0.186	0.007	4M17F9W
27	1712.4-1752.6	25.52	0.360	0.009	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

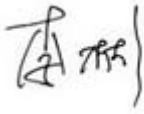
4 KEY TO NOTES AND RESULT CODES

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: 20201231

6 TEST RESULT

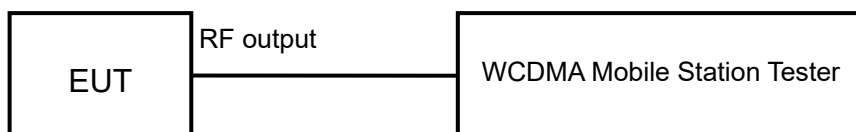
6.1 RF Power Output

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

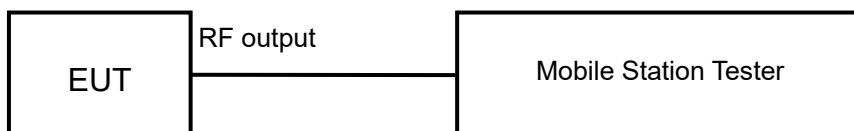
Rule Part(s):

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.

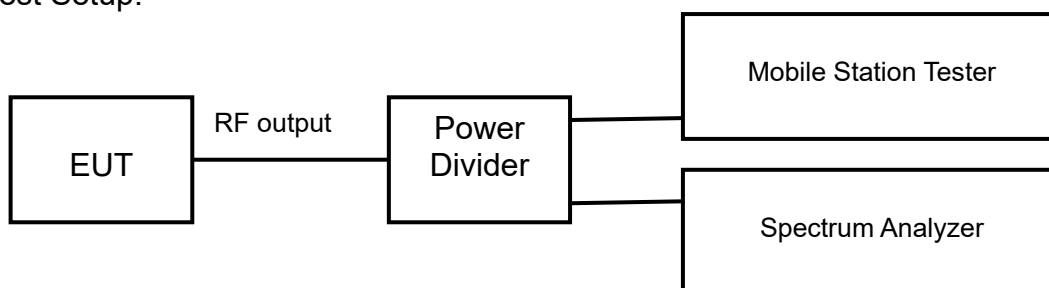
6.3 Occupied Bandwidth

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 $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

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

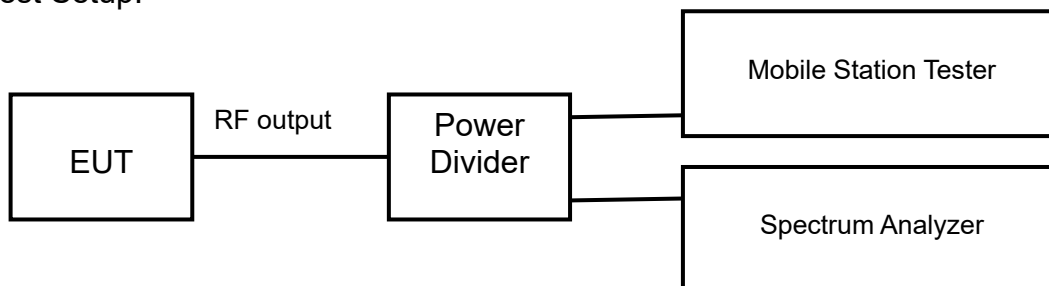
6.4 Emission Bandwidth

Rule Part(s):
FCC: 2.1049

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 $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the emission bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

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

6.5 Spurious Emissions at antenna terminal

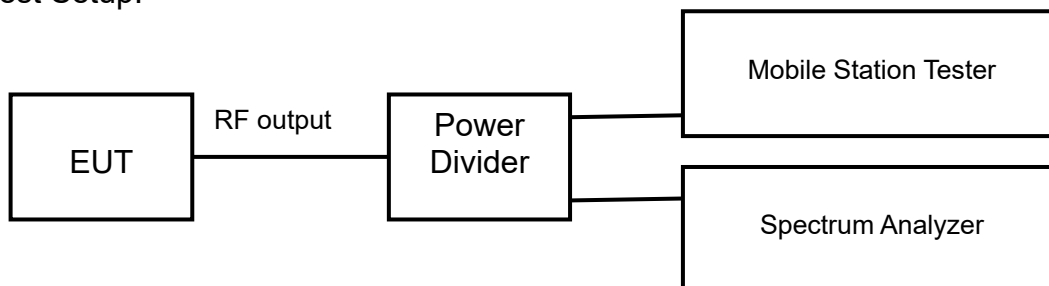
Rule Part(s):

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

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

Test result:

The test results are shown in Appendix A.

6.6 Band Edges Compliance

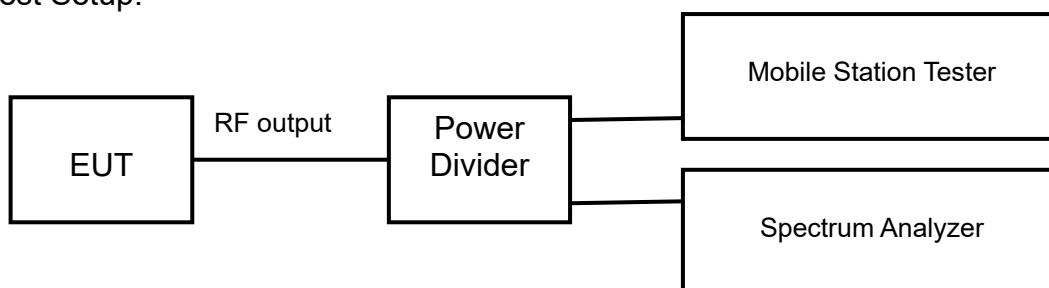
Rule Part(s)

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

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 $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

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

Test result:

The test results are shown in Appendix A.

6.7 Frequency Stability

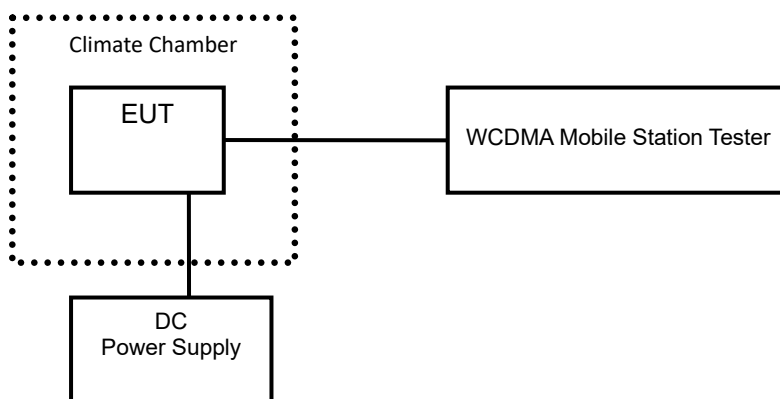
Rule Part(s)

FCC: 2.1055, 22.355, 24.235, 27.54

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 $\pm 0.00025\%$ (± 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

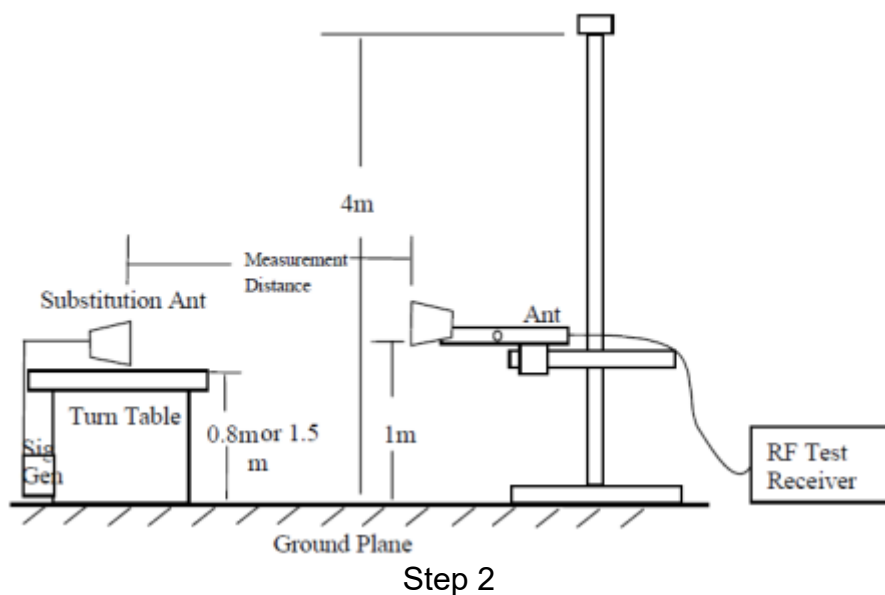
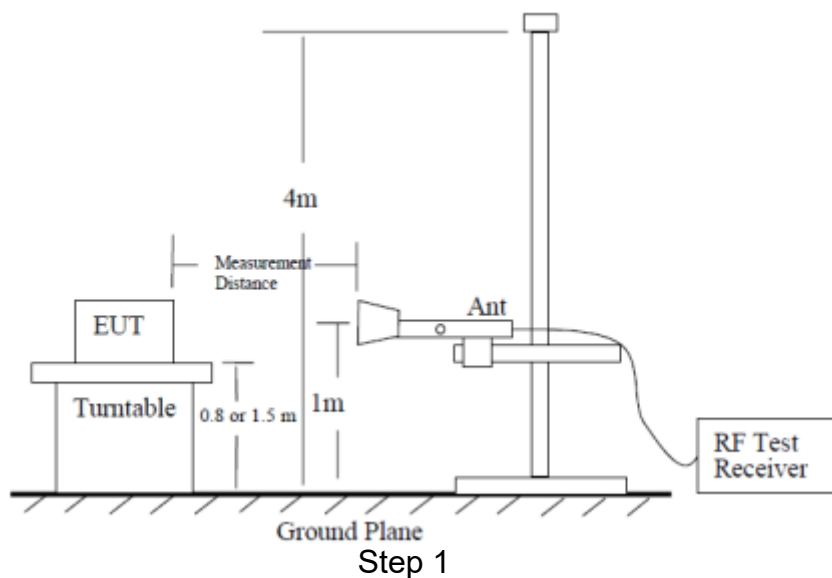
Rule Part(s)

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:

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

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.

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

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.

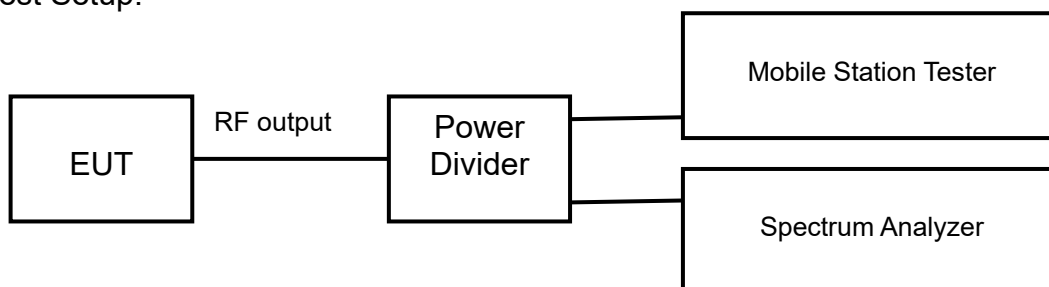
6.9 Peak-Average Ratio

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	23.62
		1880.0	9400	23.66
		1907.6	9538	23.74
HSDPA	Subtest1	1852.4	9262	22.64
		1880.0	9400	22.66
		1907.6	9538	22.77
	Subtest2	1852.4	9262	22.64
		1880.0	9400	22.66
		1907.6	9538	22.77
	Subtest3	1852.4	9262	22.11
		1880.0	9400	22.20
		1907.6	9538	22.30
	Subtest4	1852.4	9262	22.11
		1880.0	9400	22.16
		1907.6	9538	22.28
HSUPA	Subtest1	1852.4	9262	22.62
		1880.0	9400	22.67
		1907.6	9538	22.78
	Subtest2	1852.4	9262	22.58
		1880.0	9400	22.67
		1907.6	9538	22.75
	Subtest3	1852.4	9262	22.11
		1880.0	9400	22.17
		1907.6	9538	22.27
	Subtest4	1852.4	9262	22.59
		1880.0	9400	22.68
		1907.6	9538	22.76
	Subtest5	1852.4	9262	22.12
		1880.0	9400	22.18
		1907.6	9538	22.27
HSPA+	QPSK	1852.4	9262	22.59
		1880.0	9538	22.79
		1907.6	9400	22.72
	16QAM	1852.4	9262	22.70
		1880.0	9538	22.78
		1907.6	9400	22.69

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest1	1852.4	9262	22.61
		1880.0	9400	22.69
		1907.6	9538	22.78
	Subtest2	1852.4	9262	22.62
		1880.0	9400	22.71
		1907.6	9538	22.79
	Subtest3	1852.4	9262	22.14
		1880.0	9400	22.18
		1907.6	9538	22.28
	Subtest4	1852.4	9262	22.11
		1880.0	9400	22.18
		1907.6	9538	22.27

Occupied Bandwidth

WCDMA band II

REL99 Mode:

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

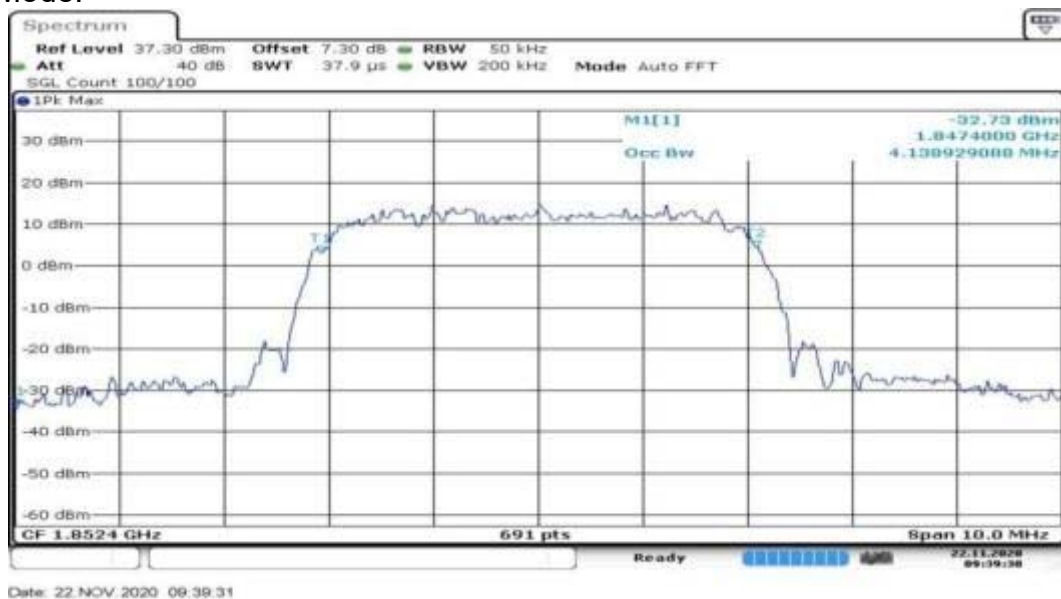
HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.17
1880	9400	4.15
1907.6	9538	4.14

HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.15
1880	9400	4.18
1907.6	9538	4.14

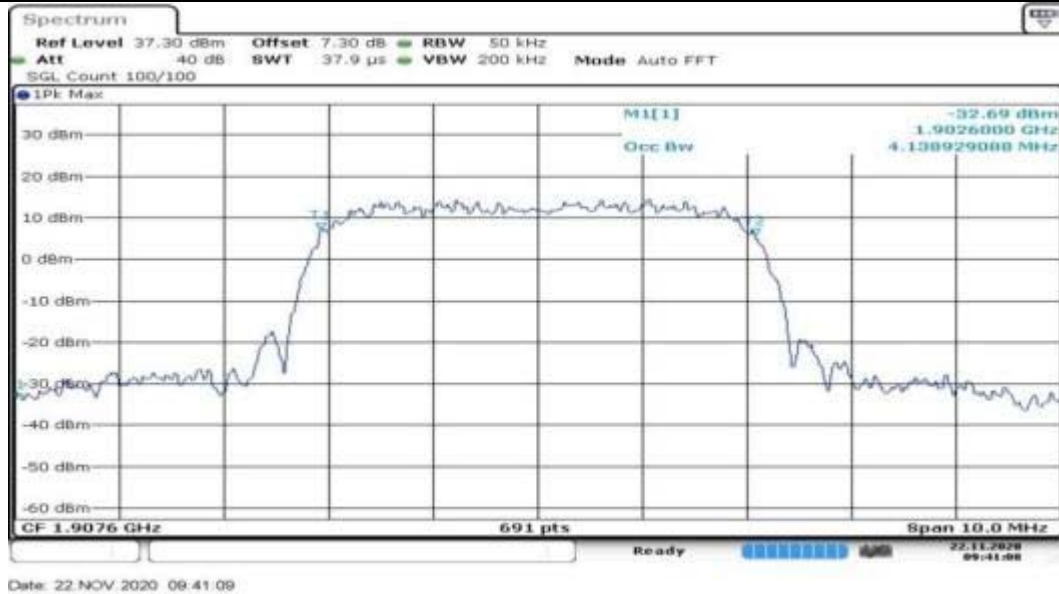
WCDMA band II
REL99 Mode:



Channel 9262

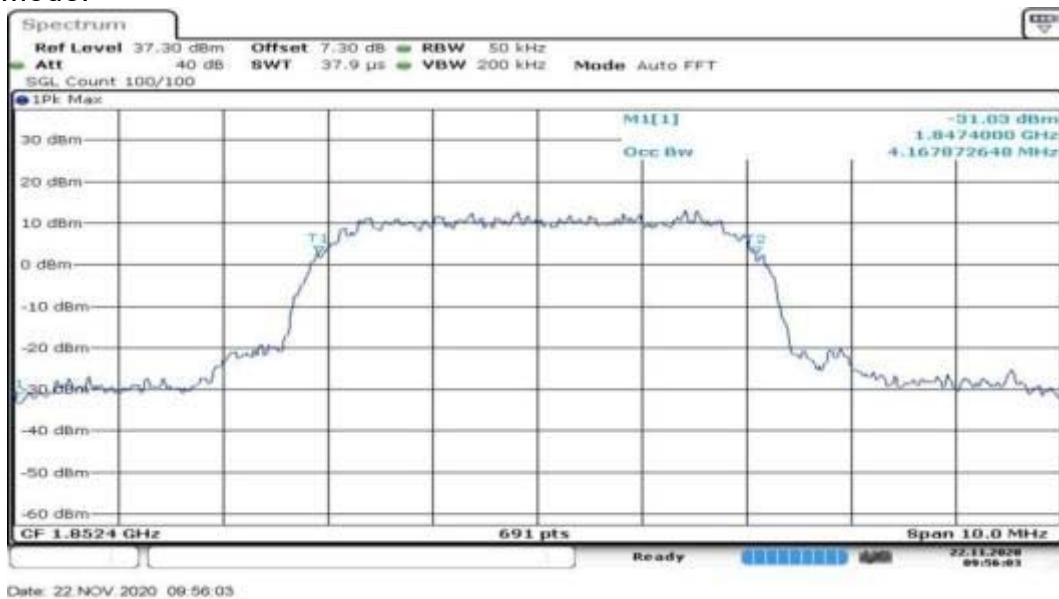


Channel 9400

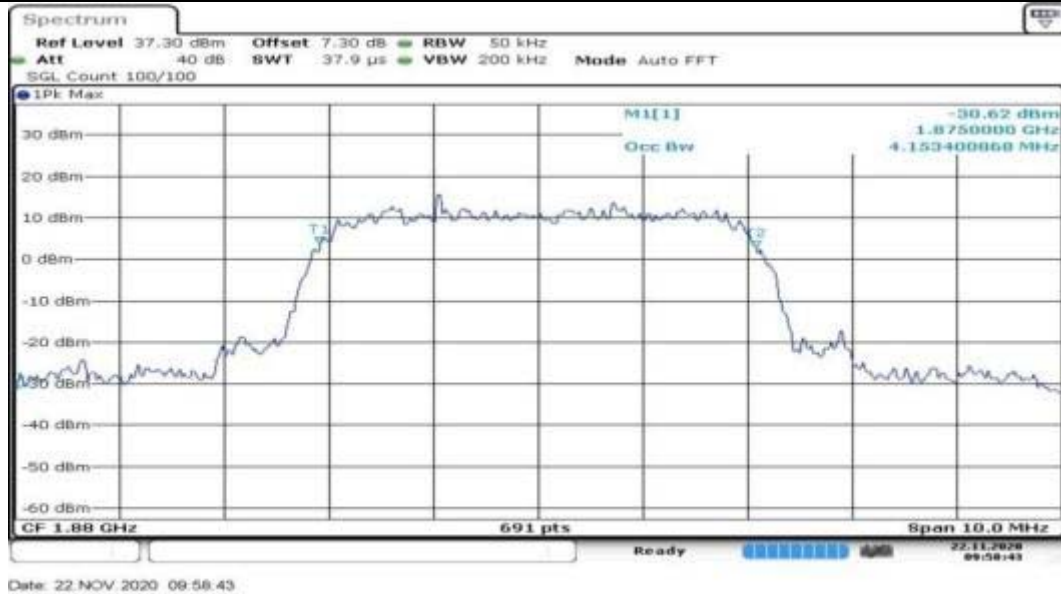


Channel 9538

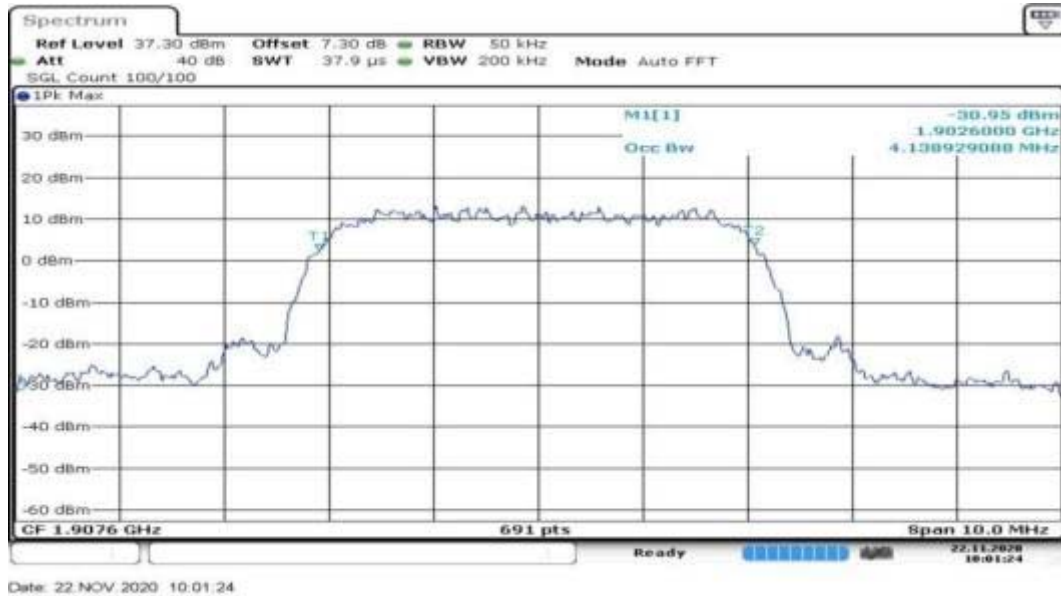
HSDPA Mode:



Channel 9262

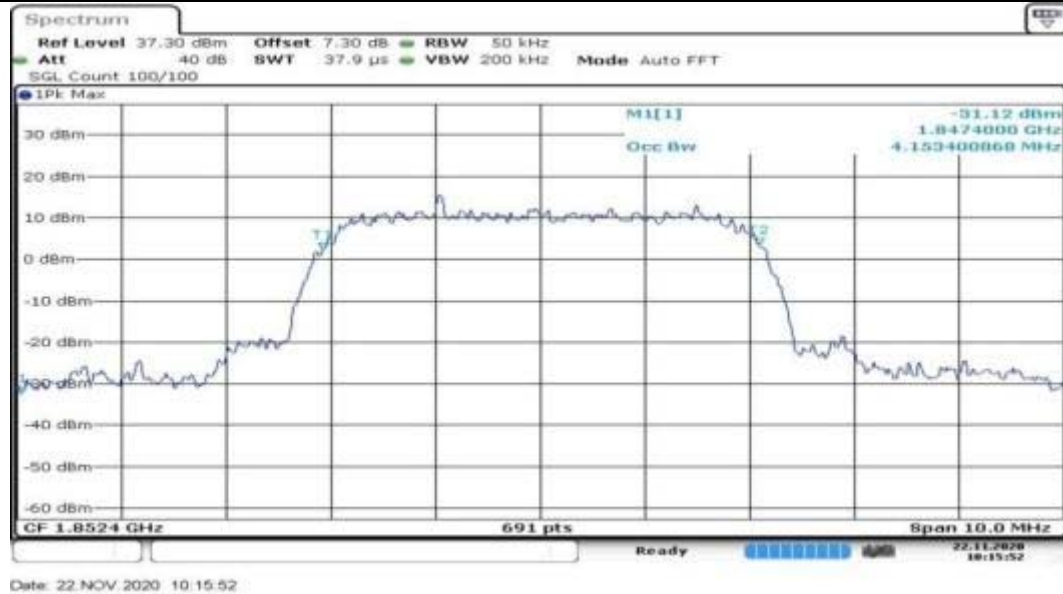


Channel 9400

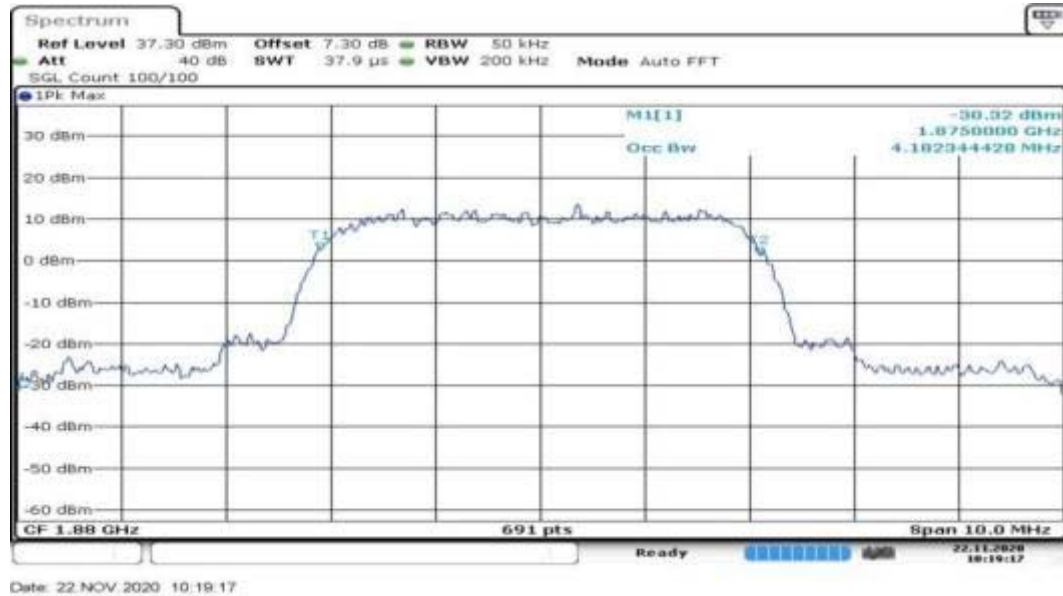


Channel 9538

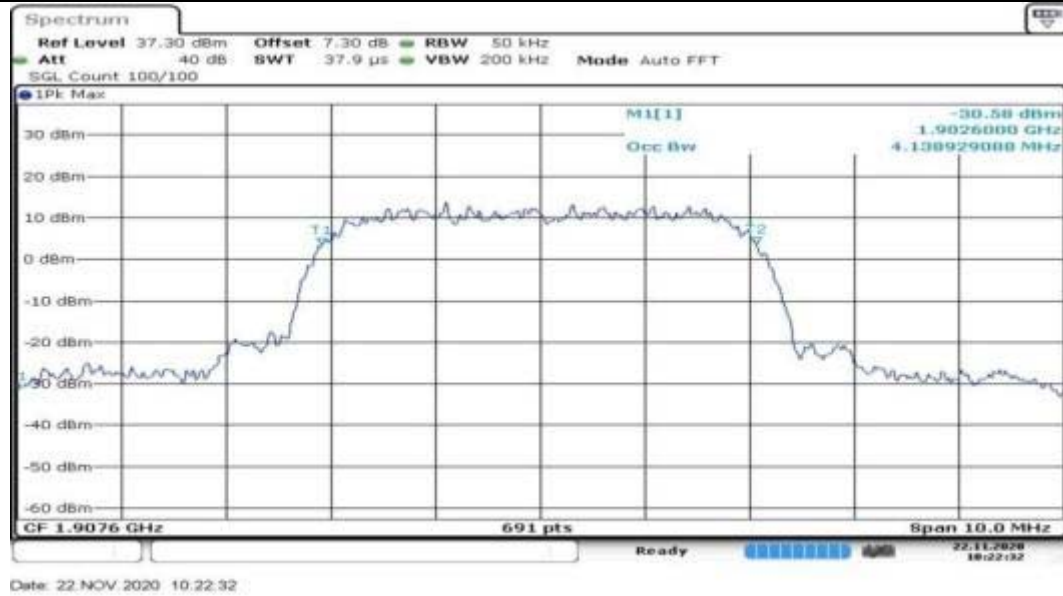
HSUPA Mode:



Channel 9262



Channel 9400



Channel 9538

Emission Bandwidth

WCDMA band II

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.70
1880	9400	4.69
1907.6	9538	4.67

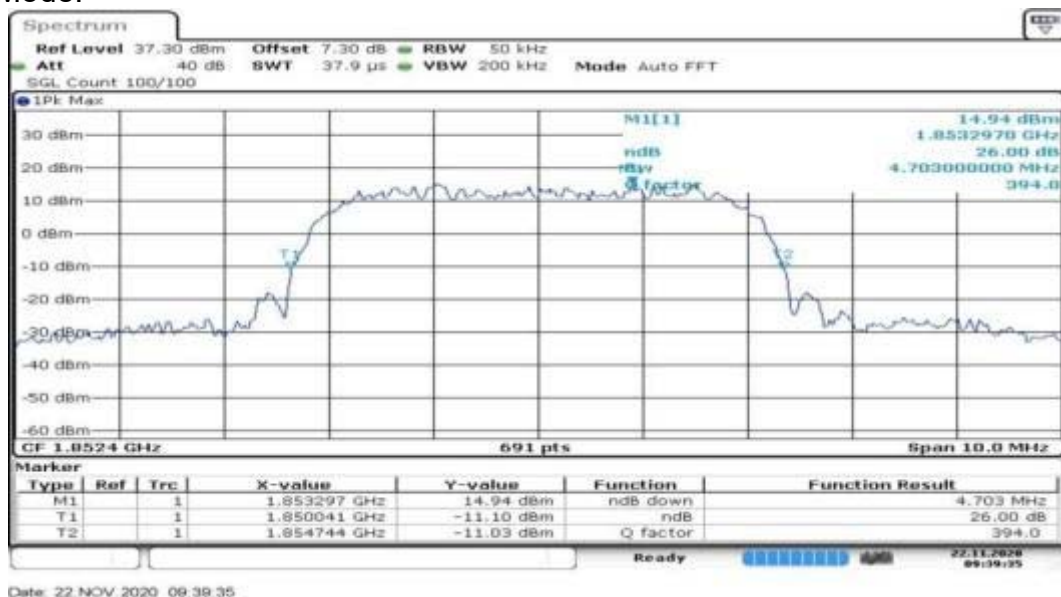
HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.76
1880	9400	4.73
1907.6	9538	4.72

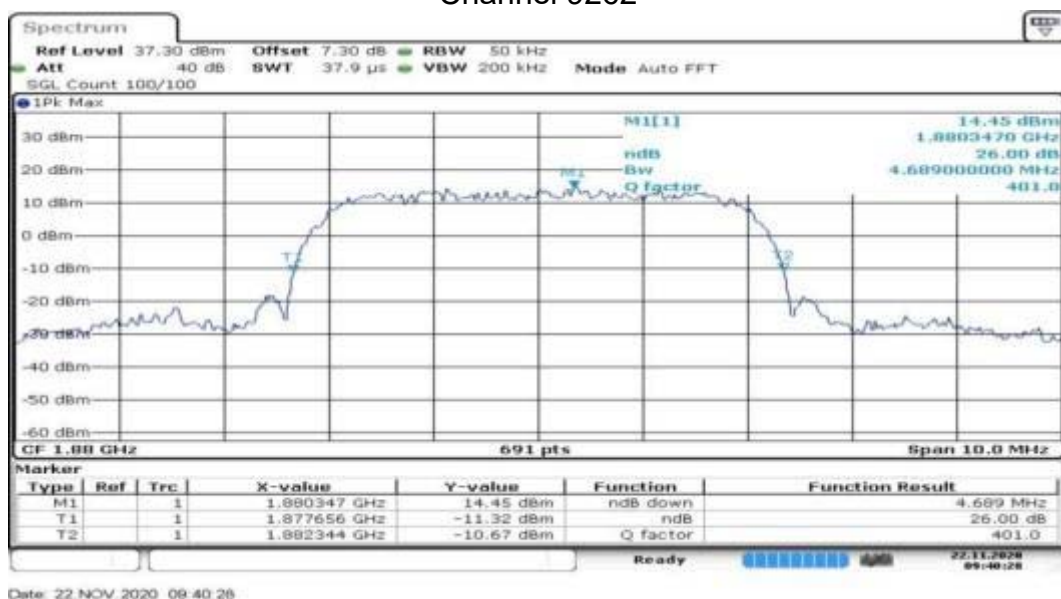
HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.72
1880	9400	4.75
1907.6	9538	4.75

WCDMA band II
REL99 Mode:



Channel 9262

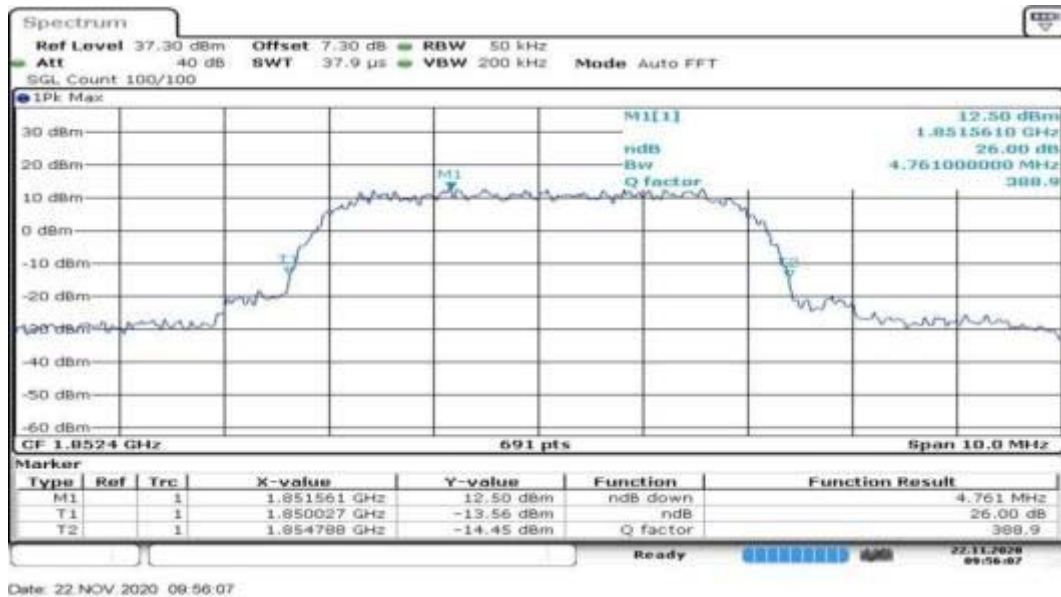


Channel 9400

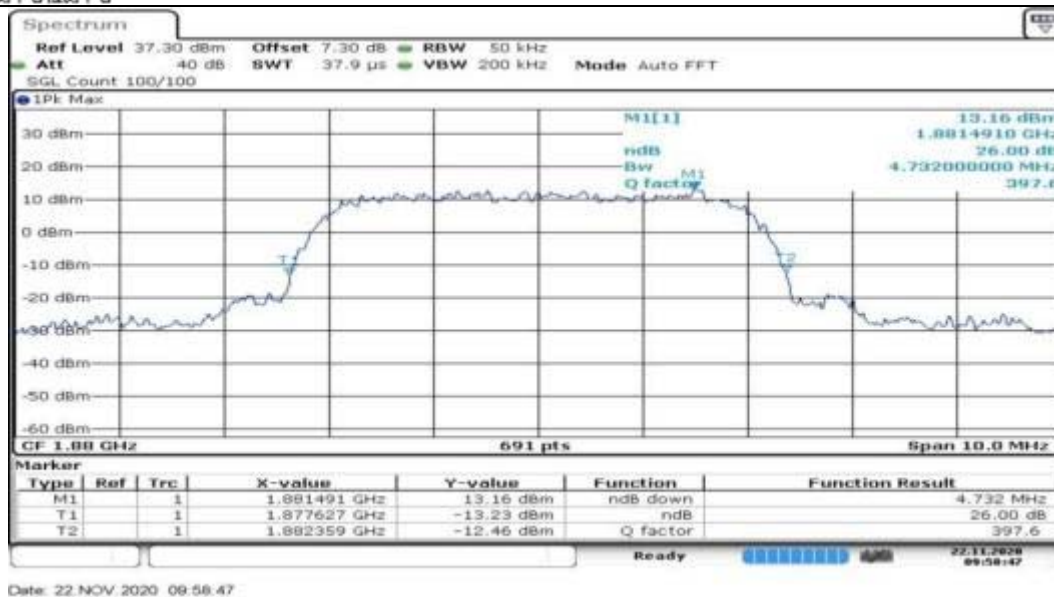


Channel 9538

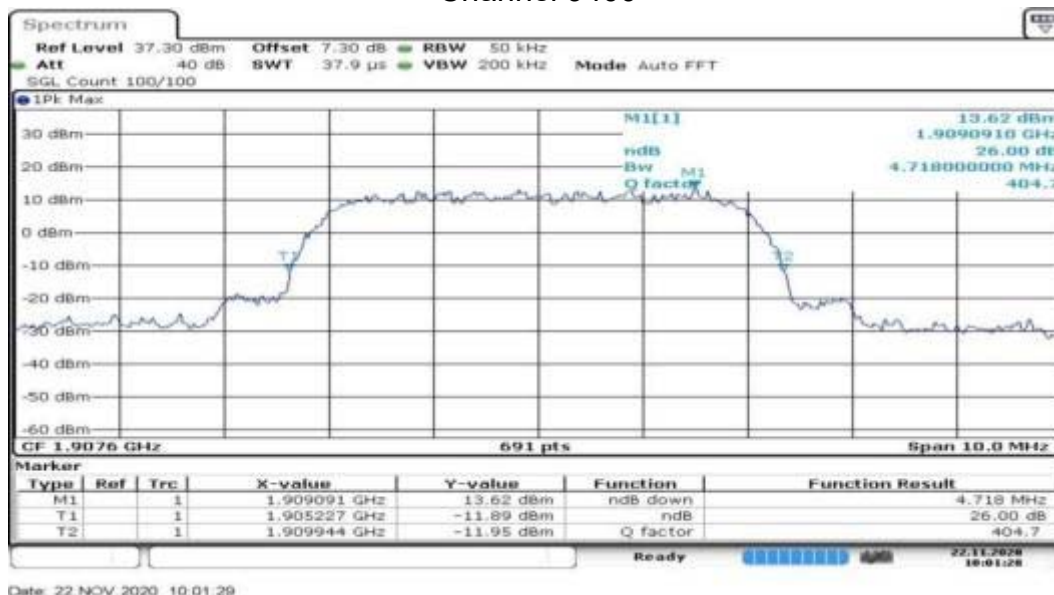
HSDPA Mode:



Channel 9262

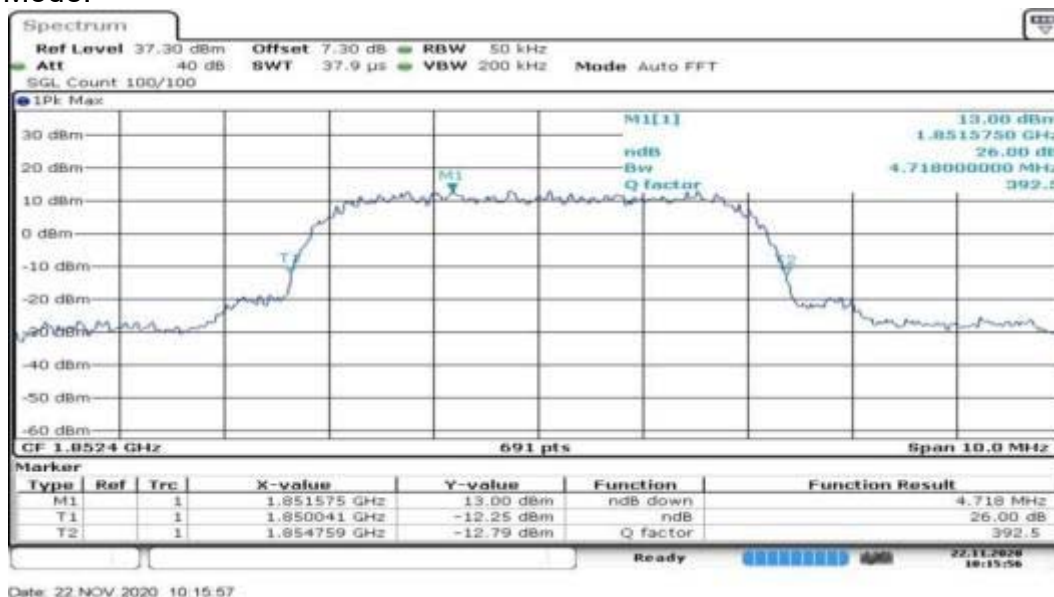


Channel 9400

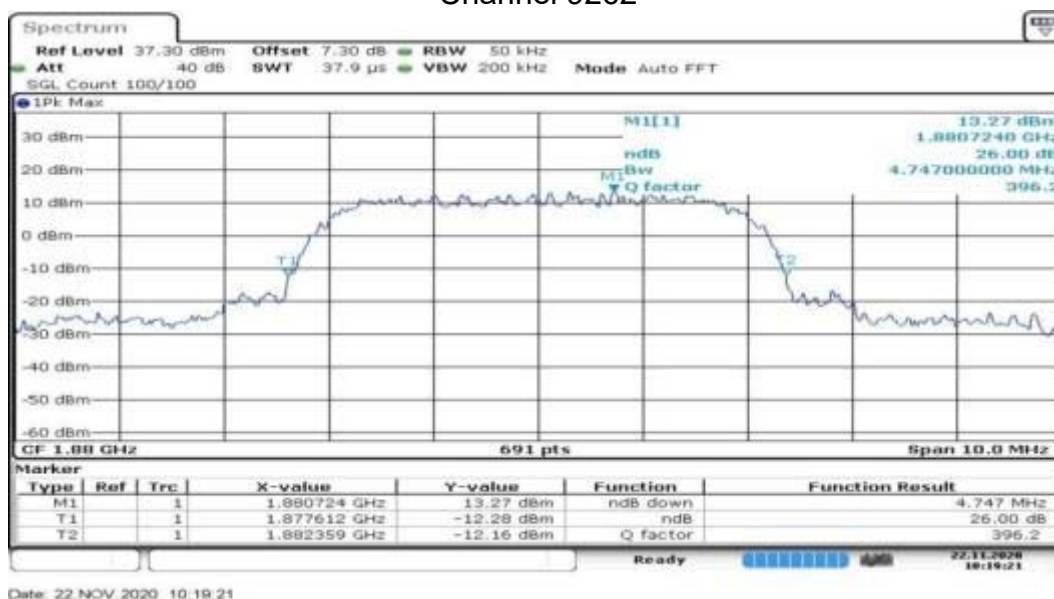


Channel 9538

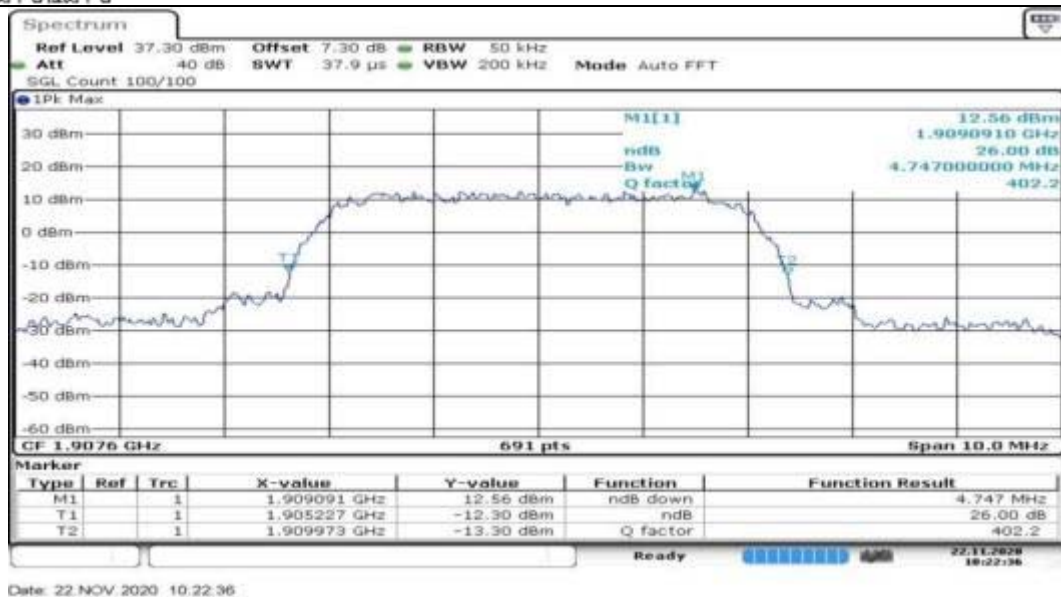
HSUPA Mode:



Channel 9262



Channel 9400



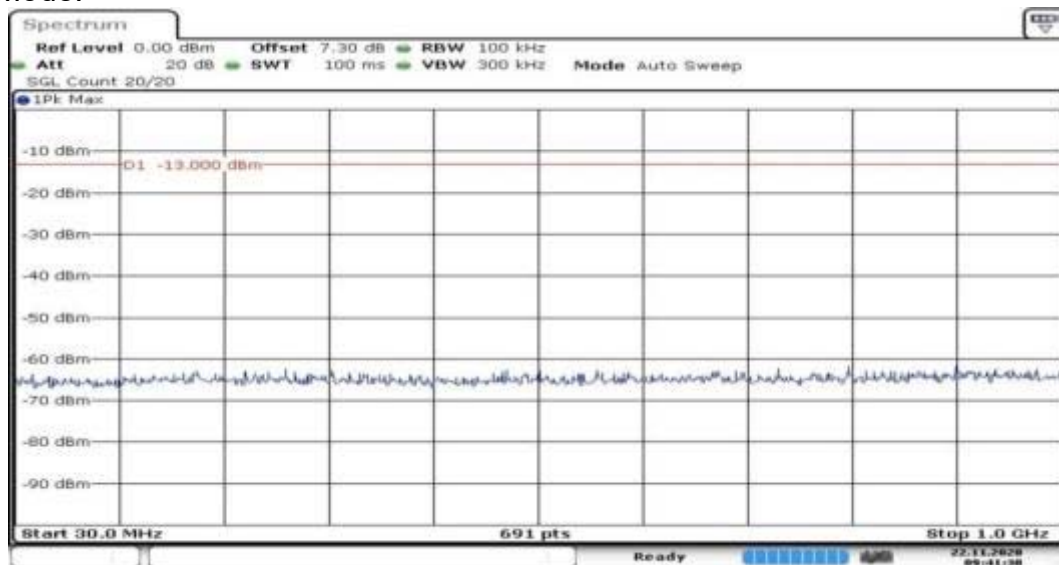
Date: 22 NOV 2020 10:22:36

Channel 9538

Spurious Emissions at antenna terminal

WCDMA band II

REL99 Mode:



Date: 22 NOV 2020 09:41:30

Channel 9400 30MHz~1GHz

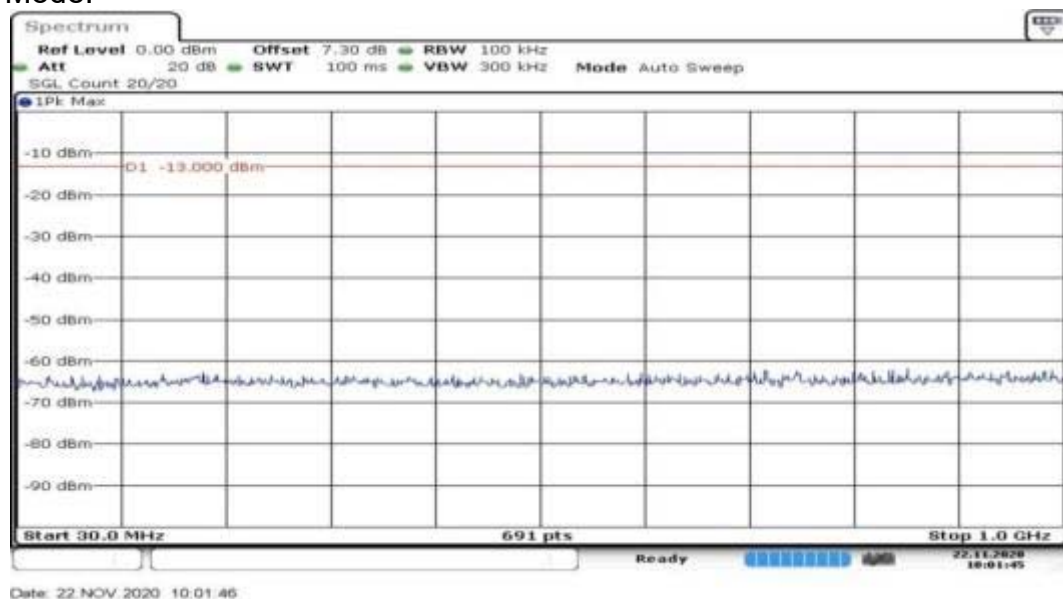


Date: 22 NOV 2020 09:41:39

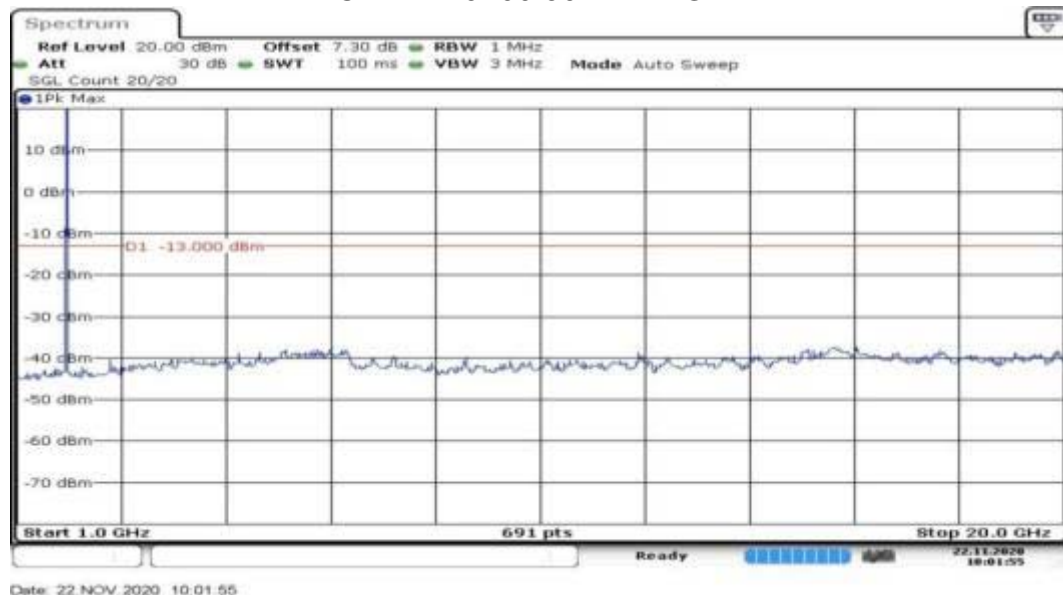
Channel 9400 1GHz~20GHz

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

HSDPA Mode:



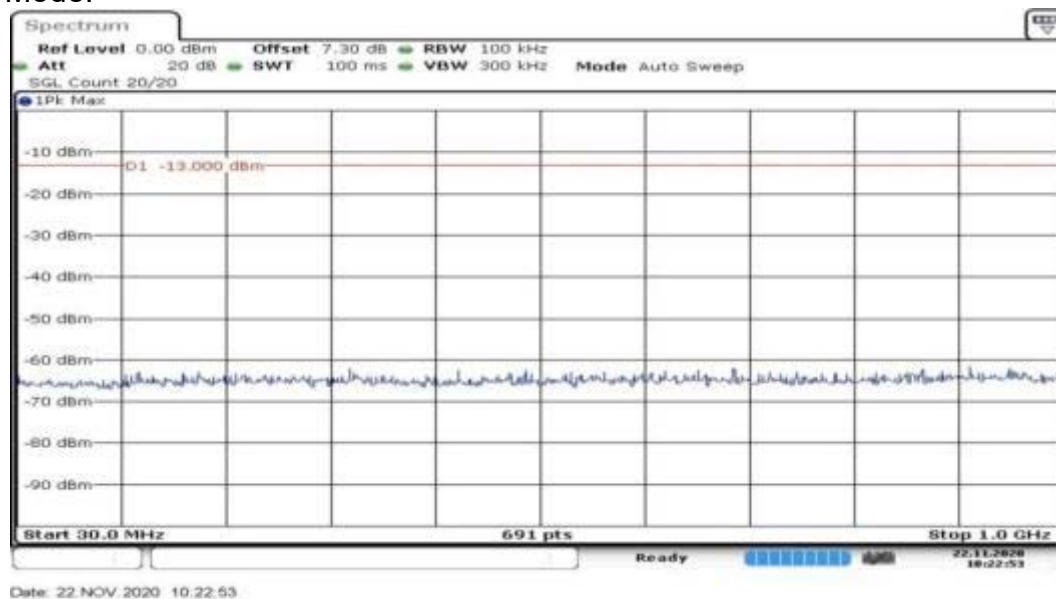
Channel 9400 30MHz~1GHz



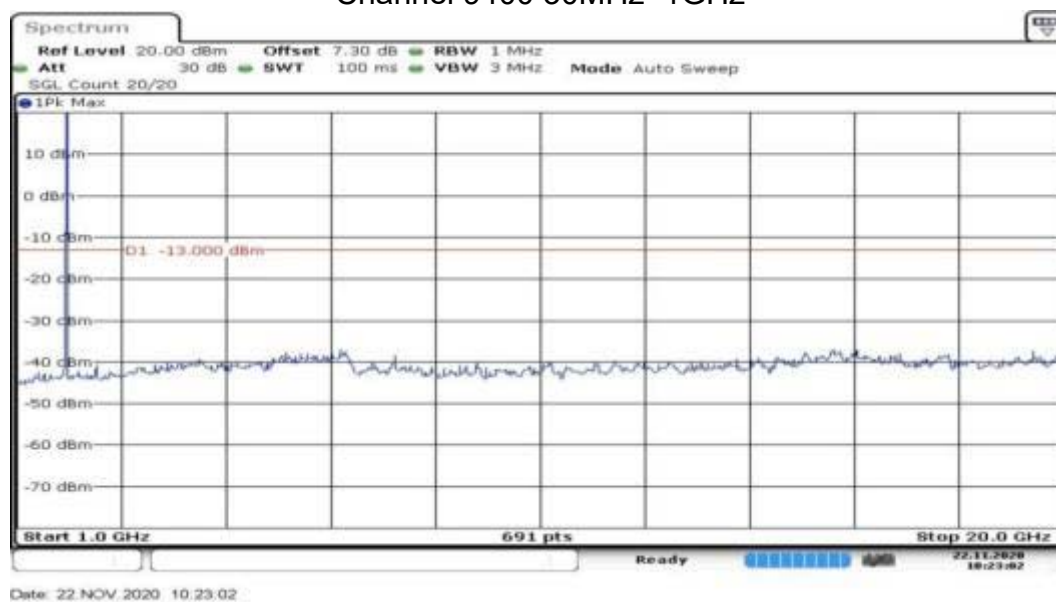
Channel 9400 1GHz~20GHz

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

HSUPA Mode:



Channel 9400 30MHz~1GHz



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: 22 NOV 2020 10:16:31

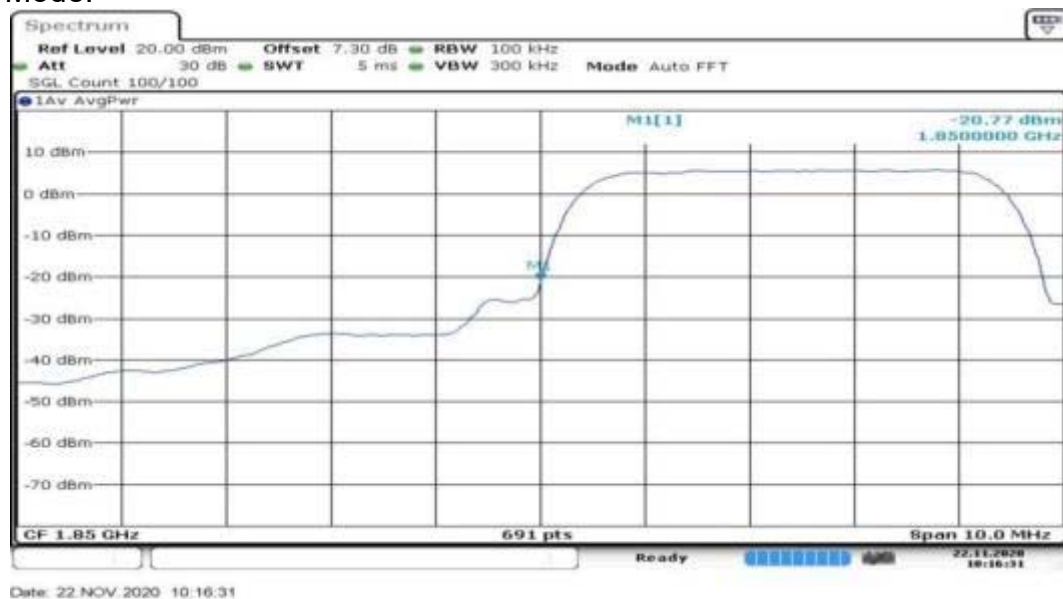
Channel 9262



Date: 22 NOV 2020 10:23:10

Channel 9538

HSDPA Mode:

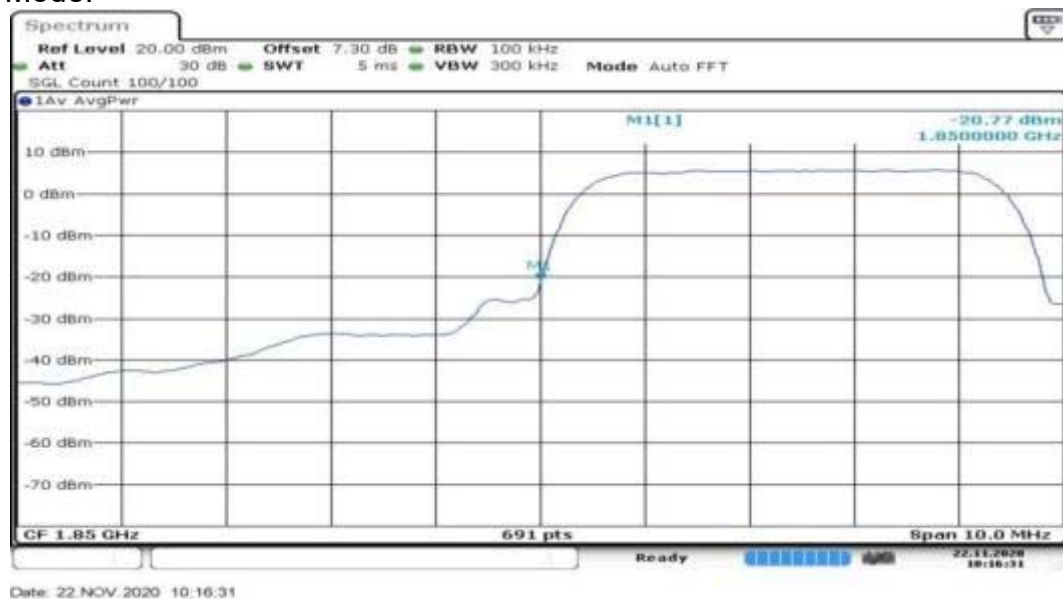


Channel 9262



Channel 9538

HSUPA Mode:



Channel 9262



Channel 9538

Frequency Stability

WCDMA band II

REL99 Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
-20	0.008	-0.001	-0.011
-10	0.004	0.012	-0.009
0	0.001	0.001	0.007
+10	0.004	-0.002	-0.001
+20	0.000	0.000	0.000
+30	0.006	0.001	-0.001
+40	0.001	0.006	-0.001
+50	0.003	0.002	-0.001
+55	0.006	0.007	-0.006
Voltage	Test Result (ppm)@NT		
	Channel 9262	Channel 9400	Channel 9538
LV	0.005	-0.003	0.003
HV	0.002	-0.007	0.006

HSDPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
-20	0.003	-0.009	0.003
-10	-0.008	0.004	-0.004
0	0.006	-0.004	-0.006
+10	0.002	-0.004	-0.007
+20	0.000	0.000	0.000
+30	-0.004	-0.007	0.002
+40	0.008	-0.007	0.004
+50	0.004	0.006	-0.001
+55	0.005	0.003	-0.004
Voltage	Test Result (ppm)@NT		
	Channel 9262	Channel 9400	Channel 9538
LV	-0.002	0.003	0.002
HV	-0.008	0.007	-0.001

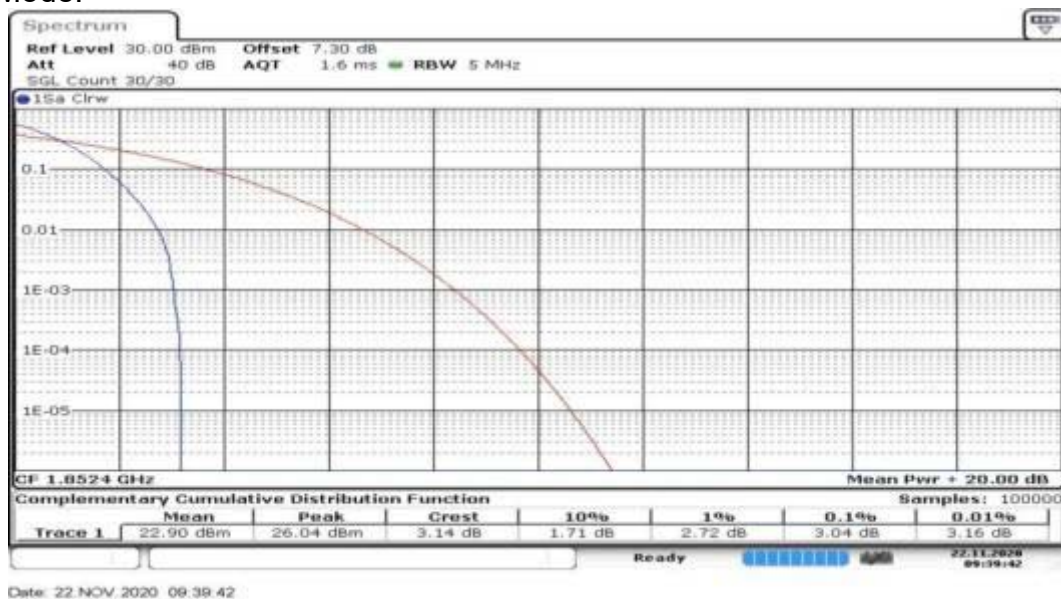
HSUPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
-30	0.003	0.007	-0.001
-20	-0.005	0.005	-0.007
-10	0.007	0.008	-0.001
0	-0.002	0.000	0.003
+10	0.004	0.002	0.001
+20	0.000	0.000	0.000
+30	-0.006	-0.003	-0.001
+40	0.000	-0.007	-0.002
+50	0.003	0.007	-0.001
+55	0.005	0.008	-0.003
Voltage	Test Result (ppm)@NT		
	Channel 9262	Channel 9400	Channel 9538
LV	0.003	0.008	-0.005
HV	-0.002	-0.004	0.002

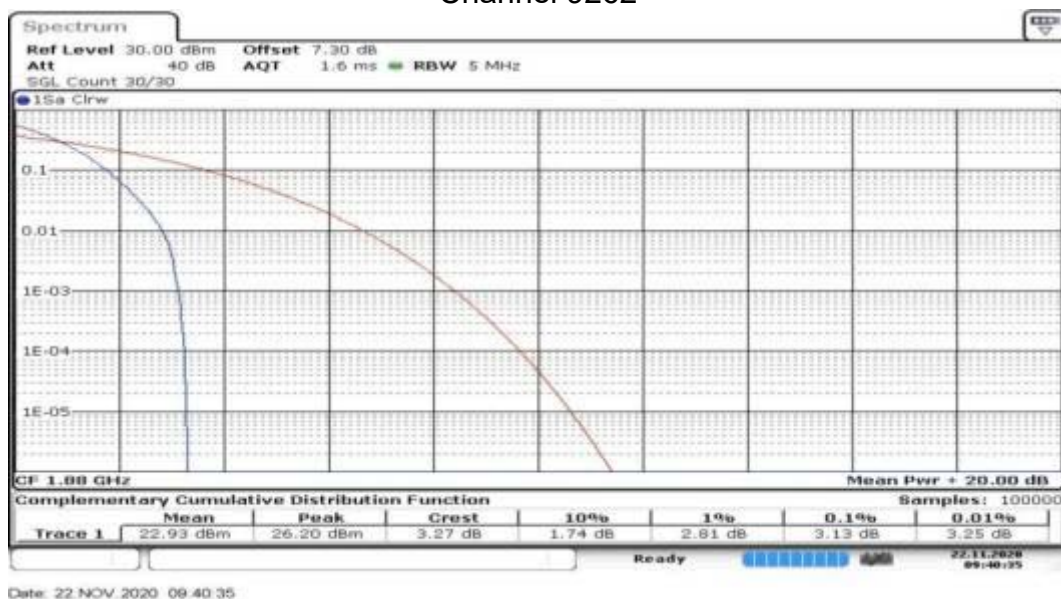
Peak-Average Ratio

WCDMA band II

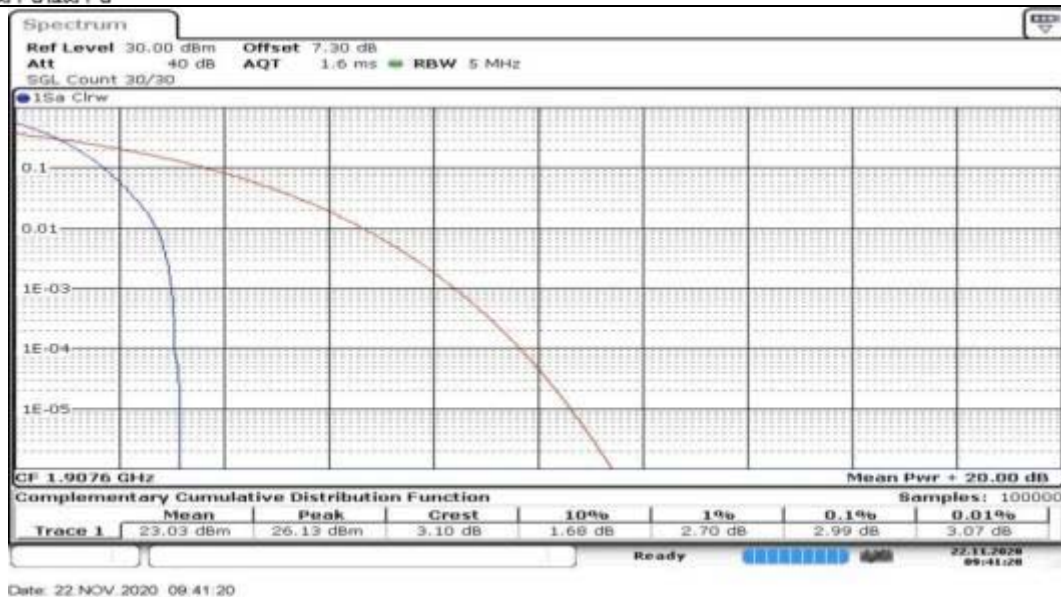
REL99 Mode:



Channel 9262



Channel 9400

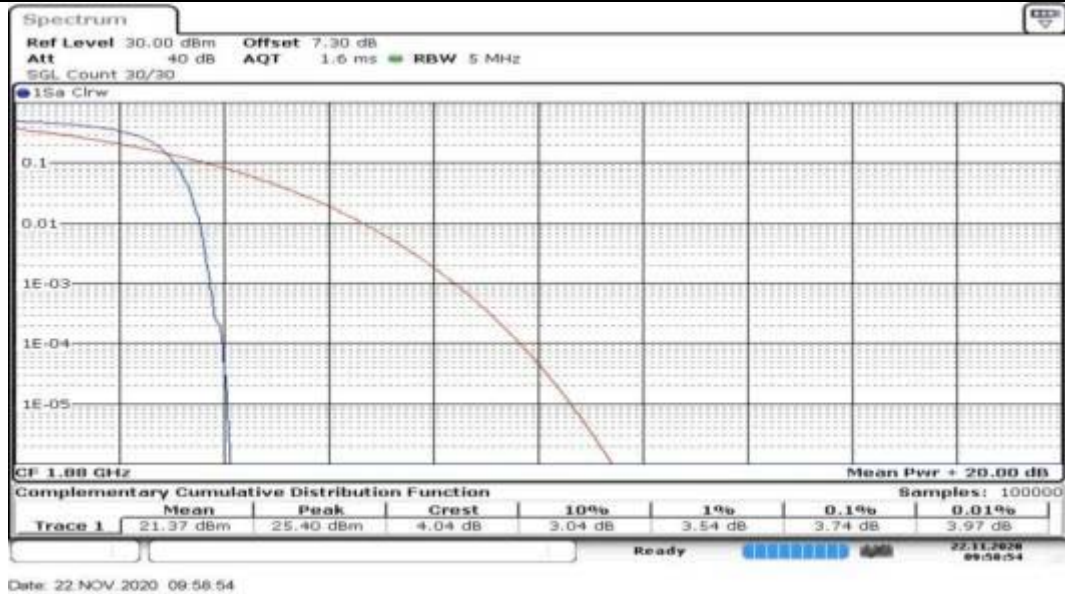


Channel 9538

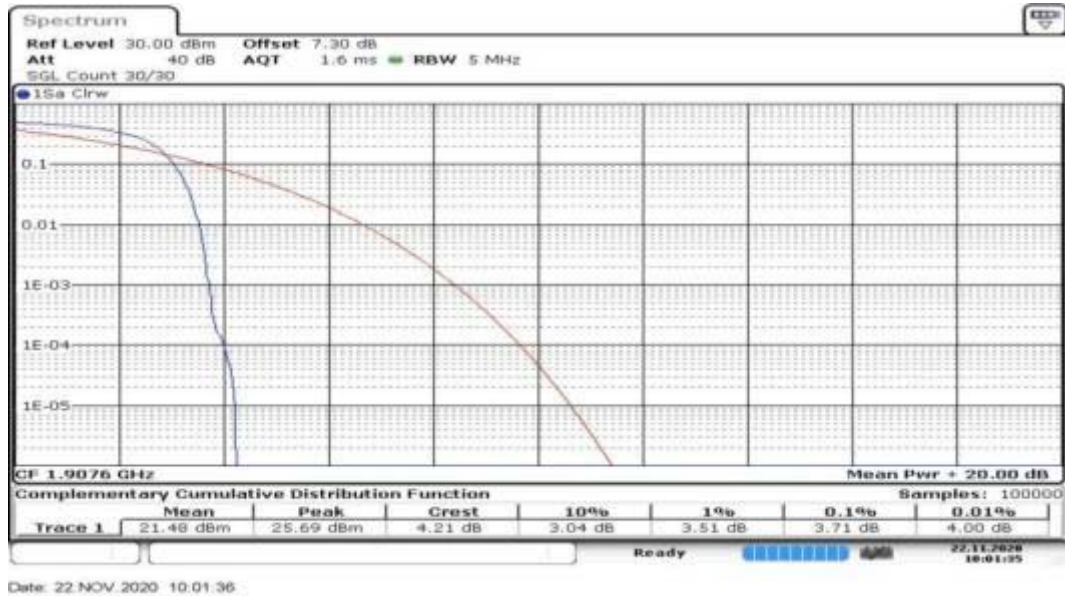
HSDPA Mode:



Channel 9262

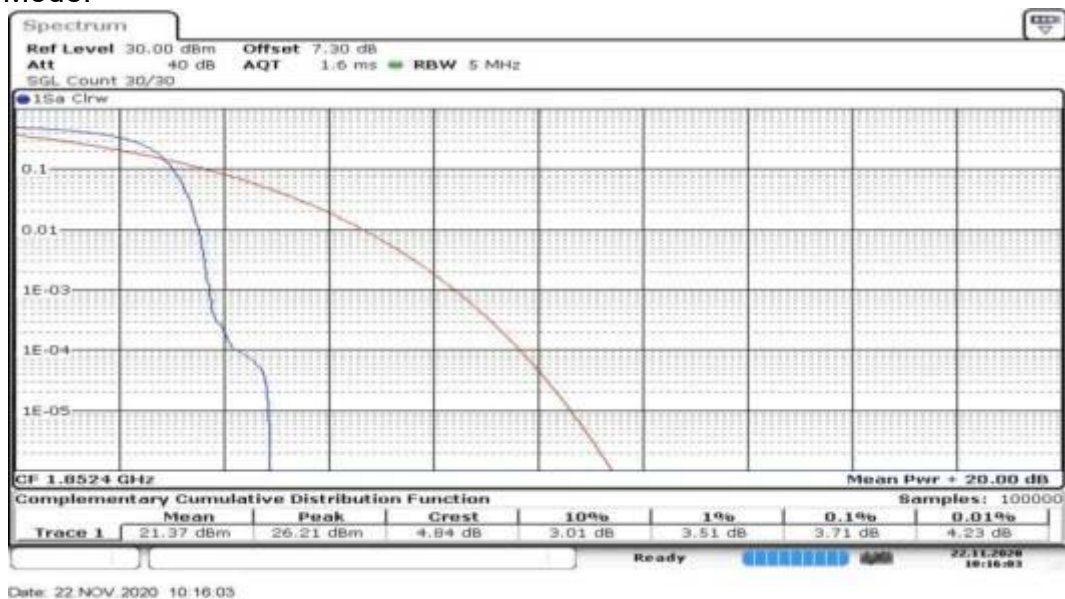


Channel 9400

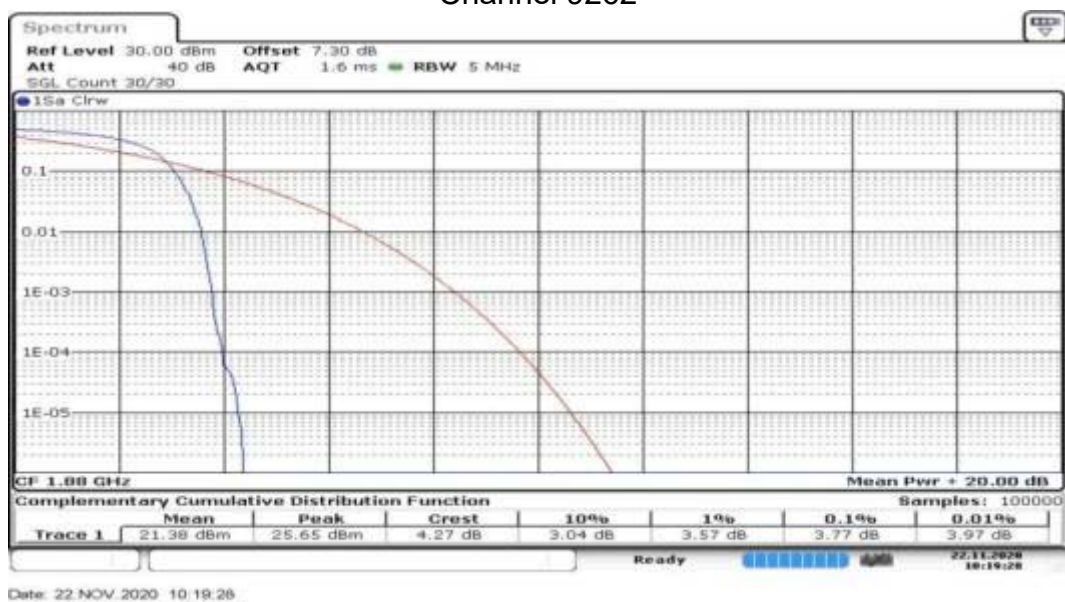


Channel 9538

HSUPA Mode:



Channel 9262



Channel 9400



Date: 22 NOV. 2020 10:22:43

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	23.62	25.62	0.365
		1880.0	9400	23.66	25.66	0.368
		1907.6	9538	23.74	25.74	0.375
HSDPA	Subtest1	1852.4	9262	22.64	24.64	0.291
		1880.0	9400	22.66	24.66	0.292
		1907.6	9538	22.77	24.77	0.300
	Subtest2	1852.4	9262	22.64	24.64	0.291
		1880.0	9400	22.66	24.66	0.292
		1907.6	9538	22.77	24.77	0.300
	Subtest3	1852.4	9262	22.11	24.11	0.258
		1880.0	9400	22.2	24.20	0.263
		1907.6	9538	22.3	24.30	0.269
	Subtest4	1852.4	9262	22.11	24.11	0.258
		1880.0	9400	22.16	24.16	0.261
		1907.6	9538	22.28	24.28	0.268
HSUPA	Subtest1	1852.4	9262	22.62	24.62	0.290
		1880.0	9400	22.67	24.67	0.293
		1907.6	9538	22.78	24.78	0.301
	Subtest2	1852.4	9262	22.58	24.58	0.287
		1880.0	9400	22.67	24.67	0.293
		1907.6	9538	22.75	24.75	0.299
	Subtest3	1852.4	9262	22.11	24.11	0.258
		1880.0	9400	22.17	24.17	0.261
		1907.6	9538	22.27	24.27	0.267
	Subtest4	1852.4	9262	22.59	24.59	0.288
		1880.0	9400	22.68	24.68	0.294
		1907.6	9538	22.76	24.76	0.299
	Subtest5	1852.4	9262	22.12	24.12	0.258
		1880.0	9400	22.18	24.18	0.262
		1907.6	9538	22.27	24.27	0.267

HSPA+	QPSK	1852.4	9262	22.59	24.59	0.288
		1880.0	9538	22.79	24.79	0.301
		1907.6	9400	22.72	24.72	0.296
	16QAM	1852.4	9262	22.70	24.70	0.295
		1880.0	9538	22.78	24.78	0.301
		1907.6	9400	22.69	24.69	0.294
DC-HSDPA	Subtest1	1852.4	9262	22.61	24.61	0.289
		1880.0	9400	22.69	24.69	0.294
		1907.6	9538	22.78	24.78	0.301
	Subtest2	1852.4	9262	22.62	24.62	0.290
		1880.0	9400	22.71	24.71	0.296
		1907.6	9538	22.79	24.79	0.301
	Subtest3	1852.4	9262	22.14	24.14	0.259
		1880.0	9400	22.18	24.18	0.262
		1907.6	9538	22.28	24.28	0.268
	Subtest4	1852.4	9262	22.11	24.11	0.258
		1880.0	9400	22.18	24.18	0.262
		1907.6	9538	22.27	24.27	0.267

RF Power Output

WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC, 12.2kbps	1712.4	1312	23.32
		1732.6	1413	23.44
		1752.6	1513	23.52
HSDPA	Subtest1	1712.4	1312	22.36
		1732.6	1413	22.51
		1752.6	1513	22.55
	Subtest2	1712.4	1312	22.27
		1732.6	1413	22.49
		1752.6	1513	22.54
	Subtest3	1712.4	1312	21.82
		1732.6	1413	22.00
		1752.6	1513	22.05
	Subtest4	1712.4	1312	21.64
		1732.6	1413	21.98
		1752.6	1513	22.04
HSUPA	Subtest1	1712.4	1312	22.36
		1732.6	1413	22.49
		1752.6	1513	22.54
	Subtest2	1712.4	1312	22.33
		1732.6	1413	22.46
		1752.6	1513	22.56
	Subtest3	1712.4	1312	21.81
		1732.6	1413	21.96
		1752.6	1513	22.04
	Subtest4	1712.4	1312	22.31
		1732.6	1413	22.50
		1752.6	1513	22.53
	Subtest5	1712.4	1312	21.82
		1732.6	1413	21.97
		1752.6	1513	22.04
HSPA+	QPSK	1712.4	1312	22.31
		1732.6	1413	22.48
		1752.6	1513	22.56
	16QAM	1712.4	1312	22.32
		1732.6	1413	22.49
		1752.6	1513	22.55

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest1	1712.4	1312	22.31
		1732.6	1413	22.48
		1752.6	1513	22.54
	Subtest2	1712.4	1312	22.34
		1732.6	1413	22.50
		1752.6	1513	22.57
	Subtest3	1712.4	1312	21.80
		1732.6	1413	22.01
		1752.6	1513	22.04
	Subtest4	1712.4	1312	21.65
		1732.6	1413	21.98
		1752.6	1513	22.06

Occupied Bandwidth

WCDMA band IV

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1712.4	1312	4.15
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	4.14
1752.6	1513	4.18

HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1712.4	1312	4.15
1732.6	1413	4.17
1752.6	1513	4.17

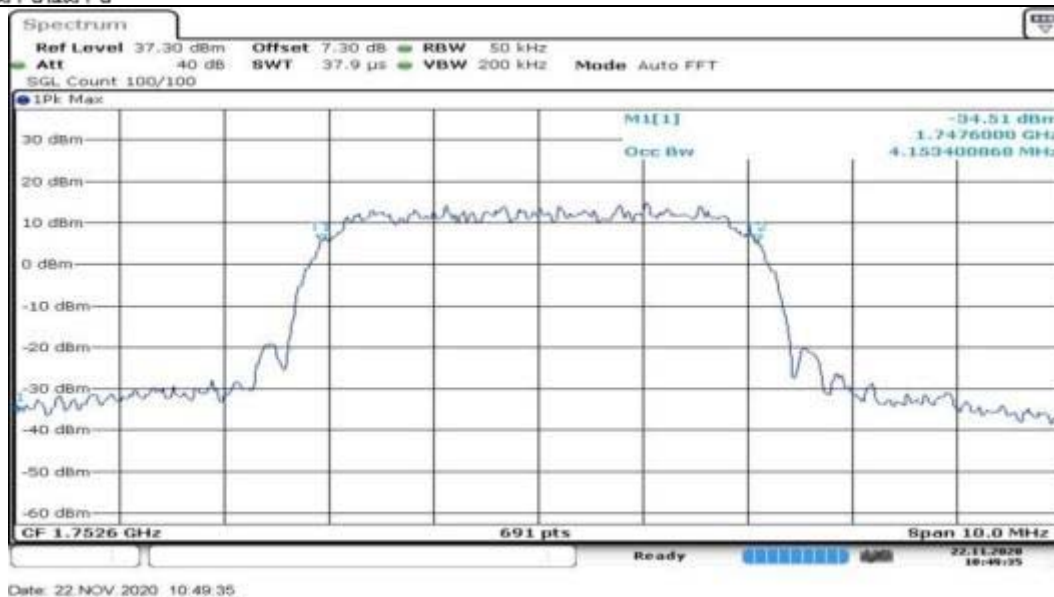
WCDMA band IV
REL99 Mode:



Channel 1312

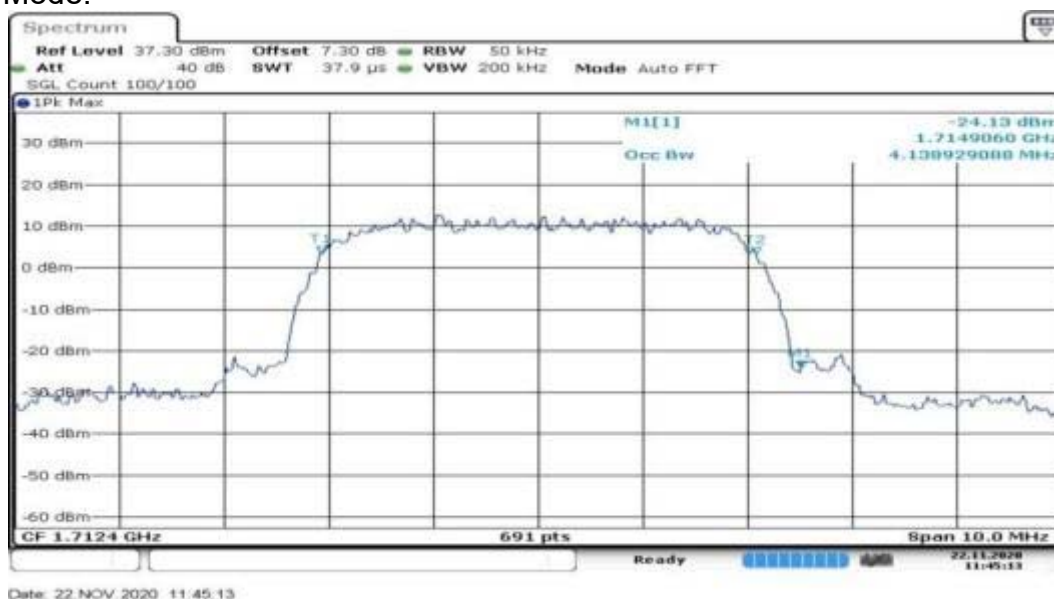


Channel 1413

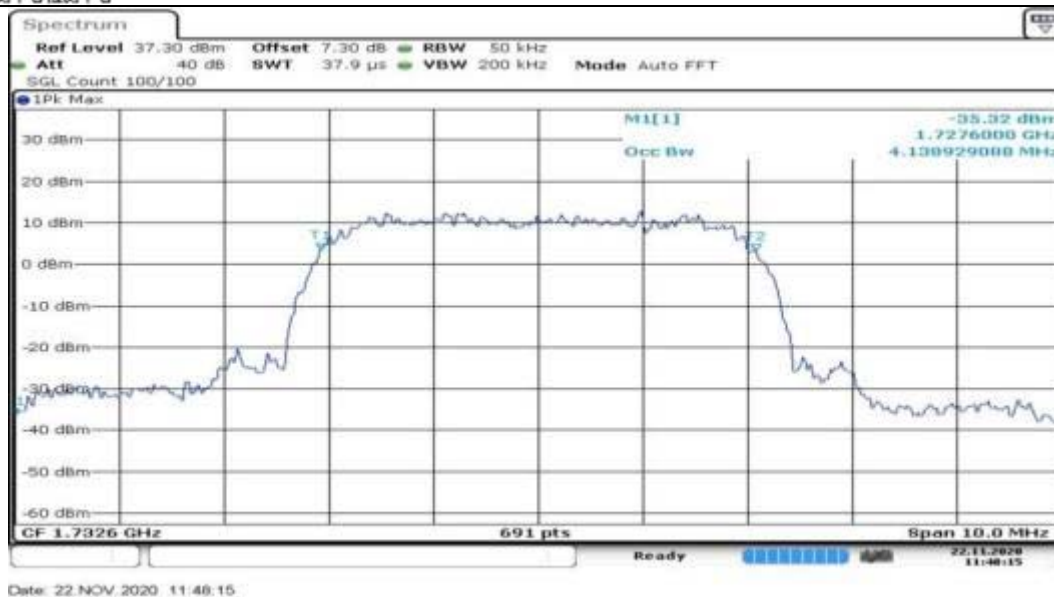


Channel 1513

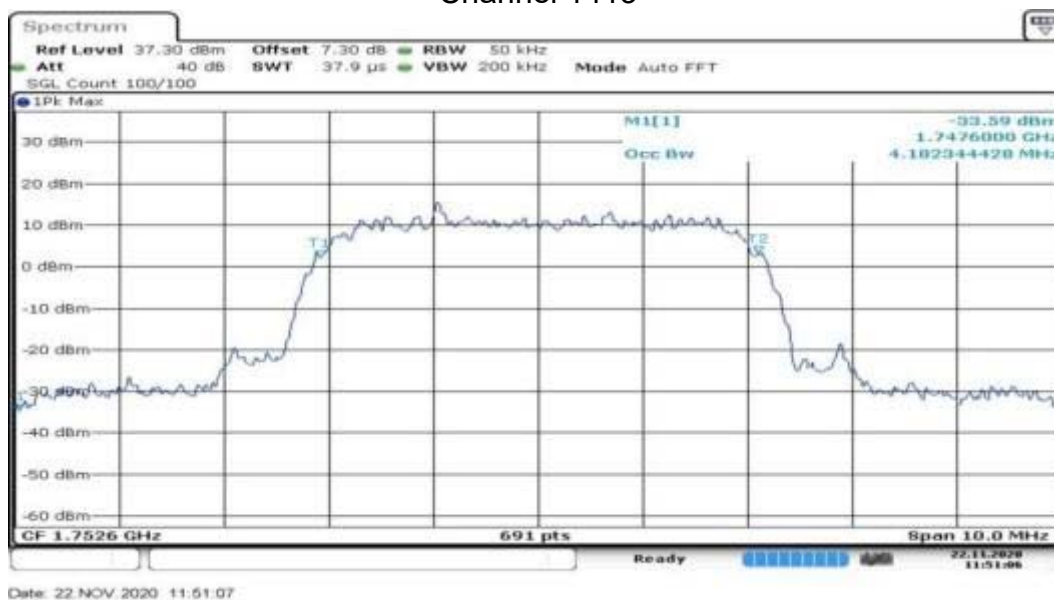
HSDPA Mode:



Channel 1312

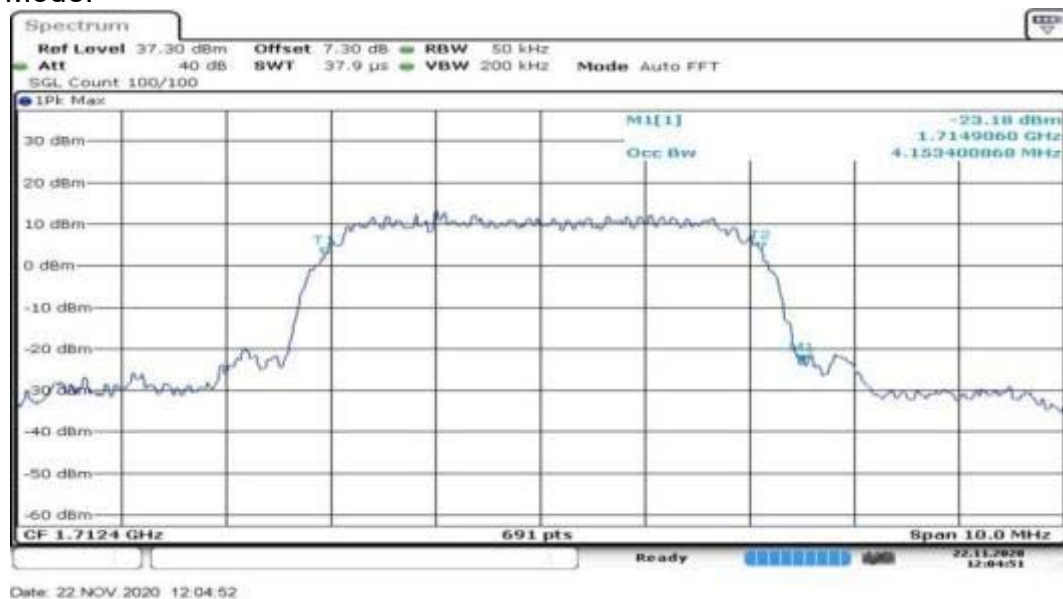


Channel 1413



Channel 1513

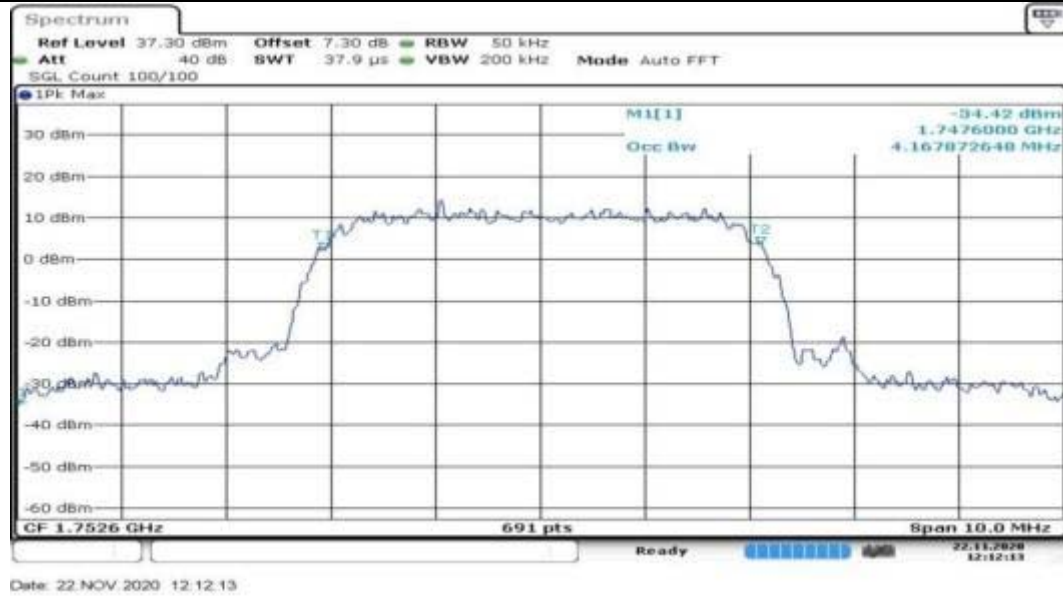
HSUPA Mode:



Channel 1312



Channel 1413



Channel 1513

Emission Bandwidth

WCDMA band IV

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.66
1732.6	1413	4.67
1752.6	1513	4.70

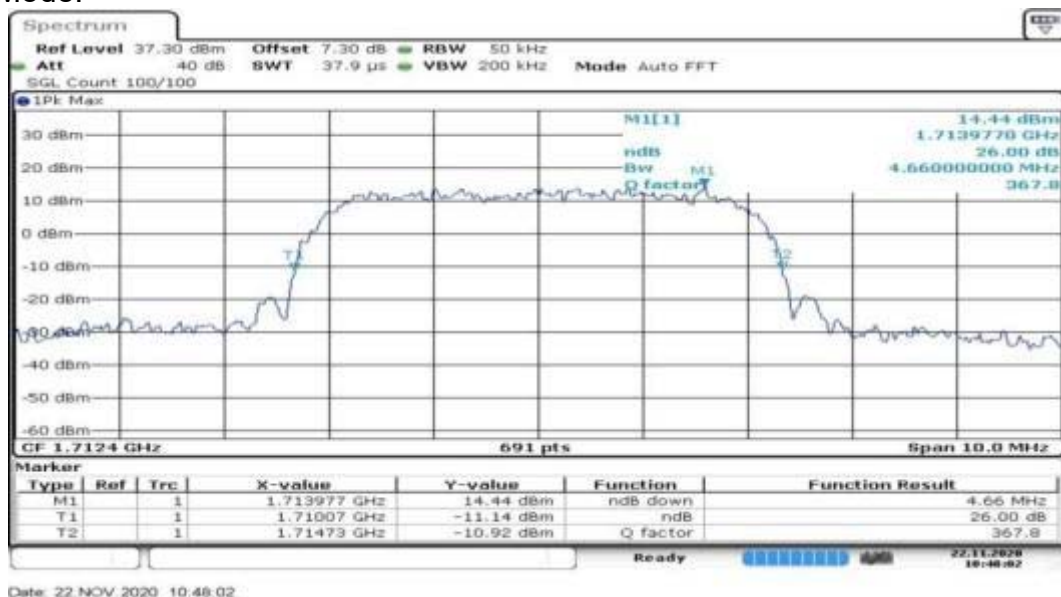
HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.70
1732.6	1413	4.65
1752.6	1513	4.72

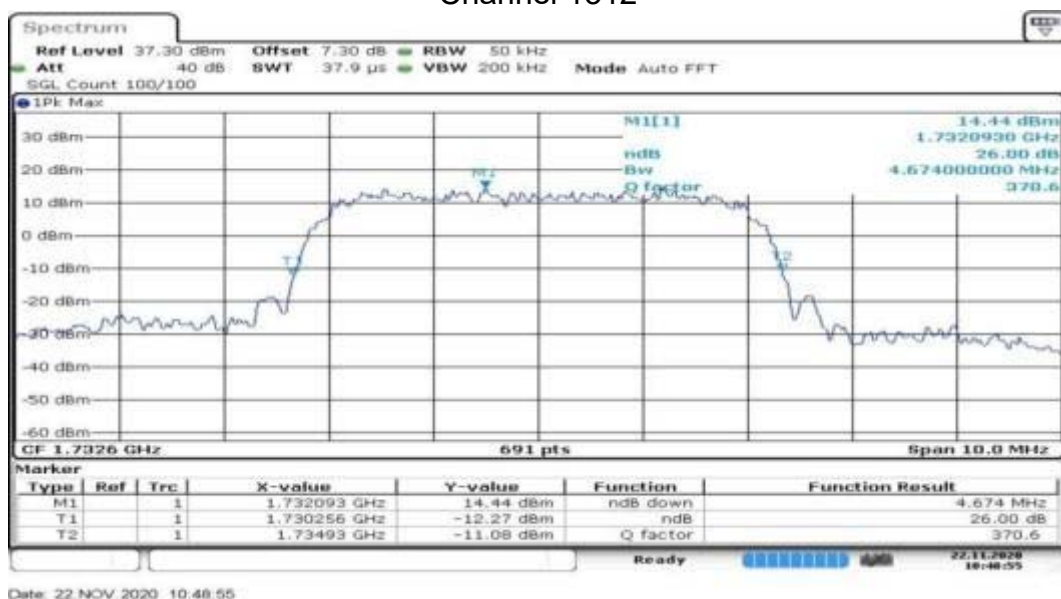
HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.70
1732.6	1413	4.69
1752.6	1513	4.70

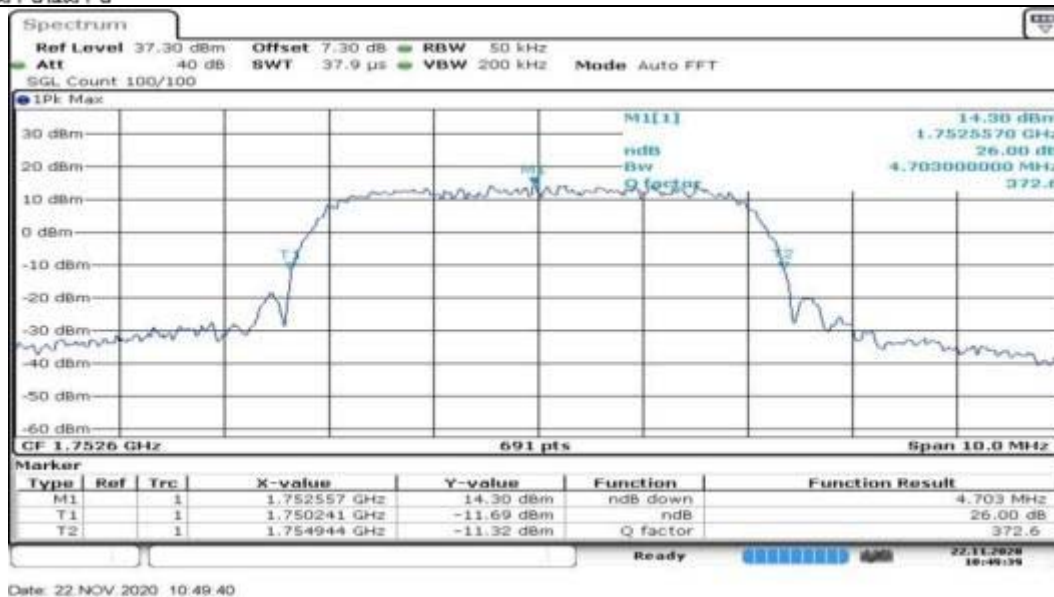
WCDMA band IV
REL99 Mode:



Channel 1312

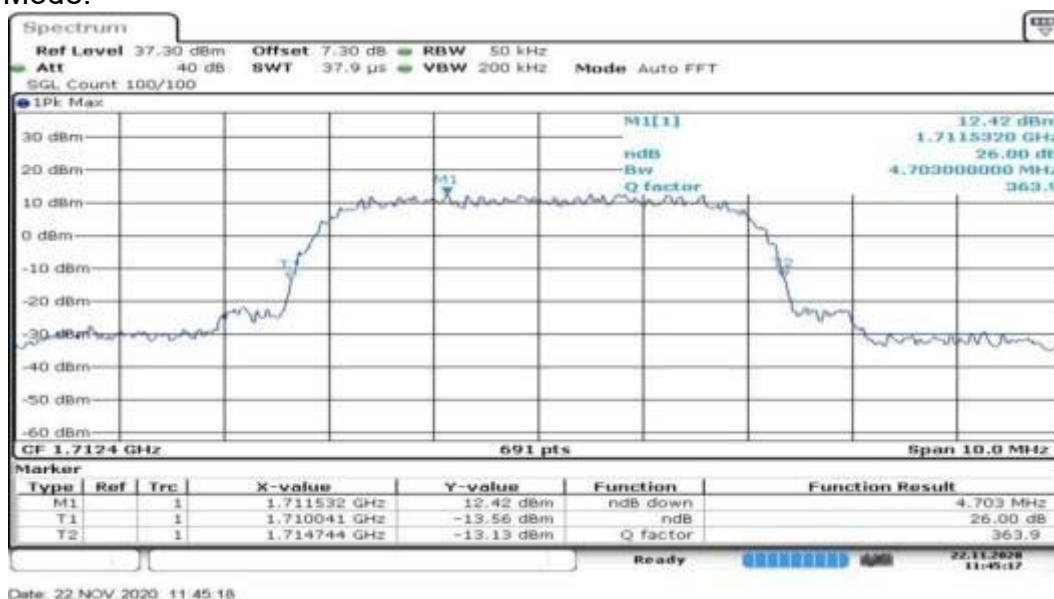


Channel 1413

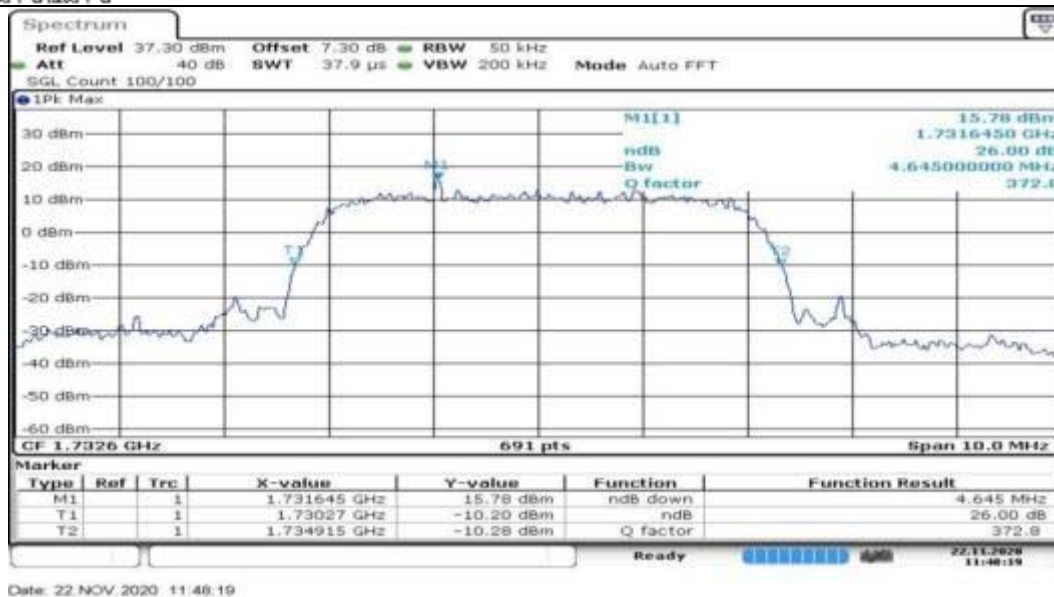


Channel 1513

HSDPA Mode:

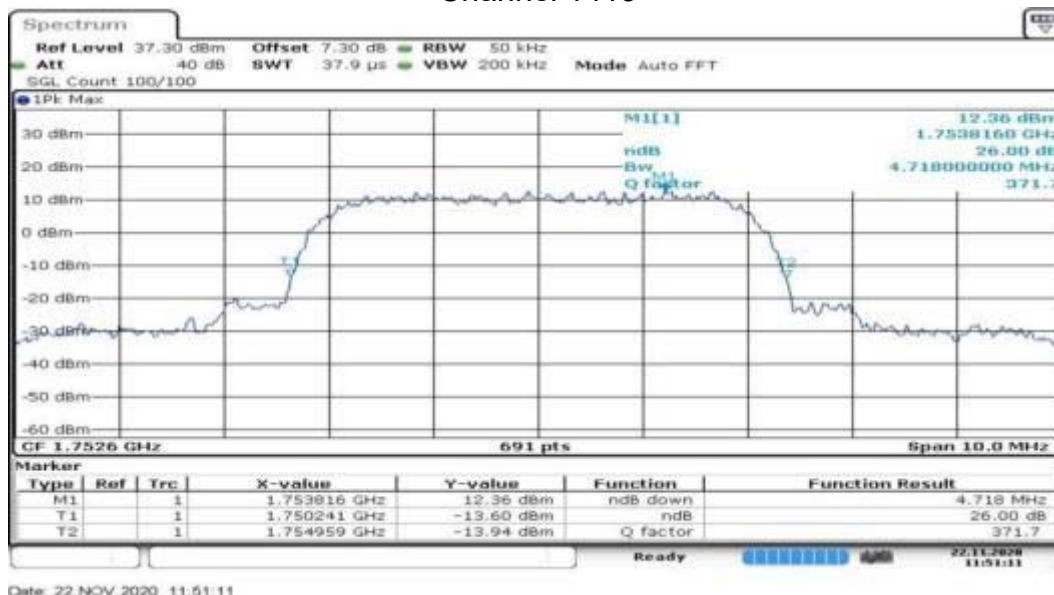


Channel 1312



Date: 22.NOV.2020 11:48:19

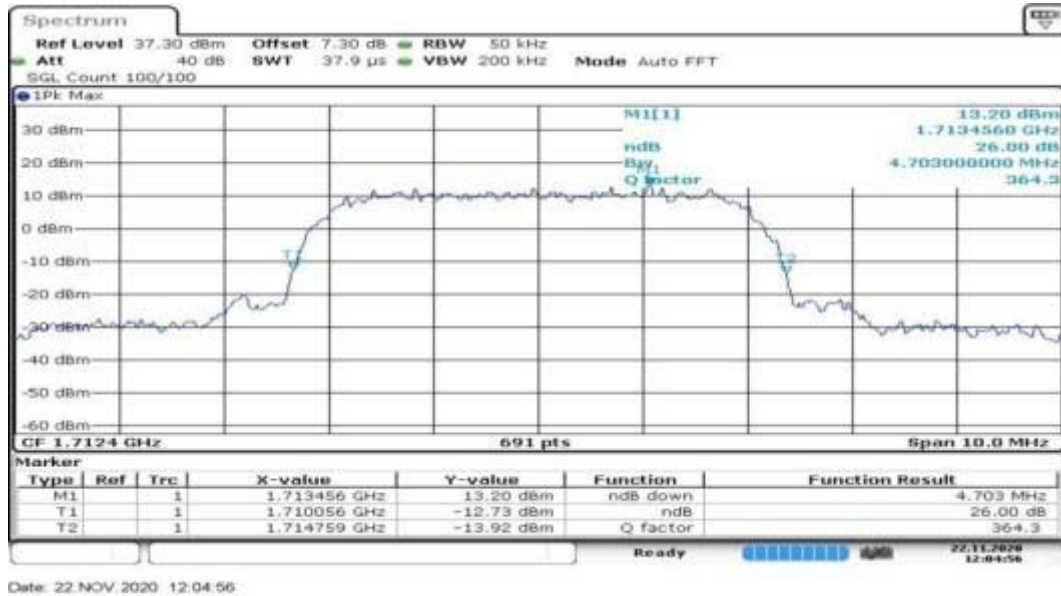
Channel 1413



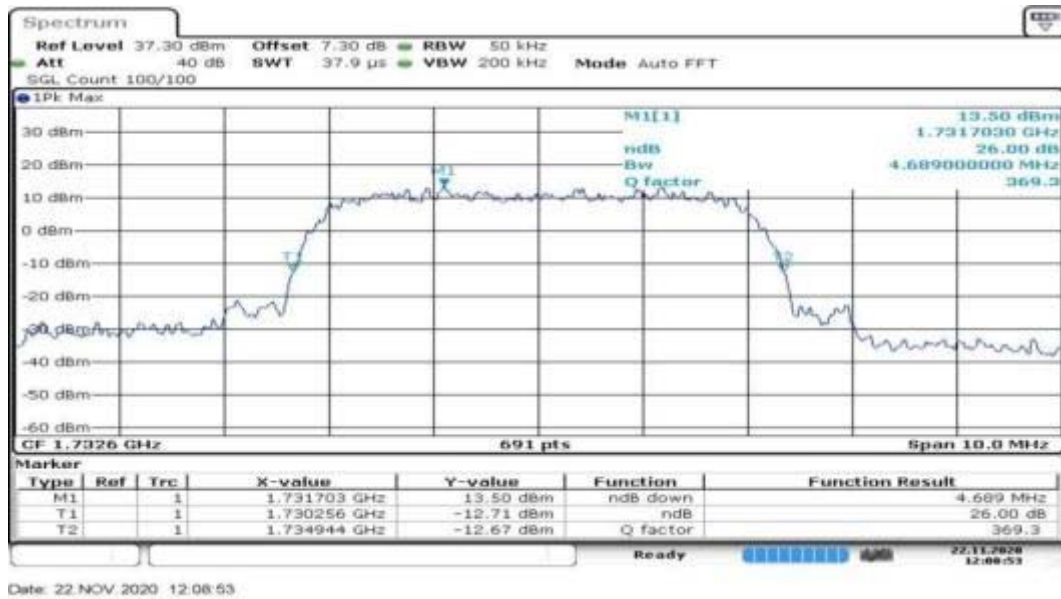
Date: 22.NOV.2020 11:51:11

Channel 1513

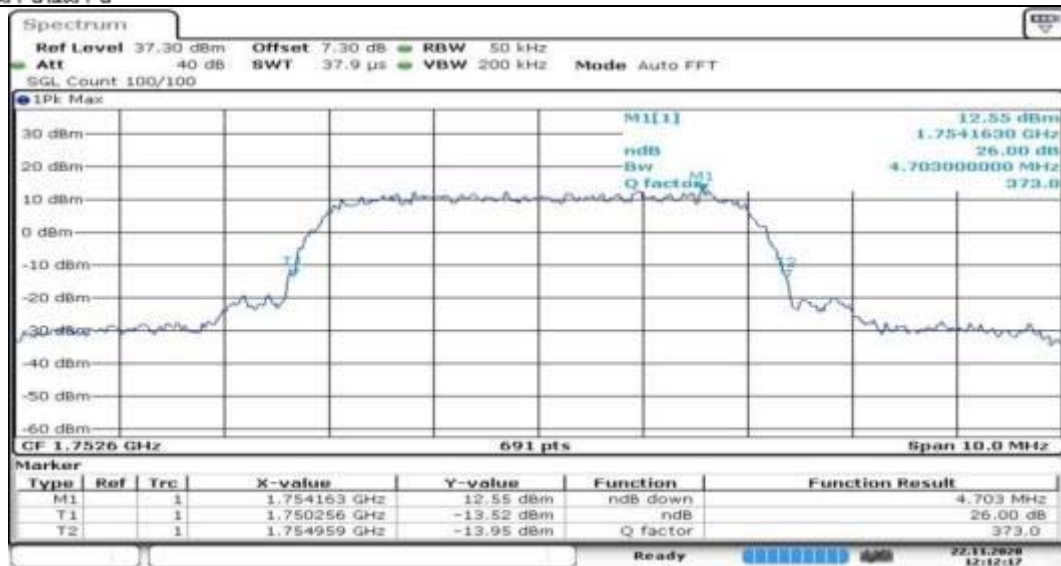
HSUPA Mode:



Channel 1312



Channel 1413



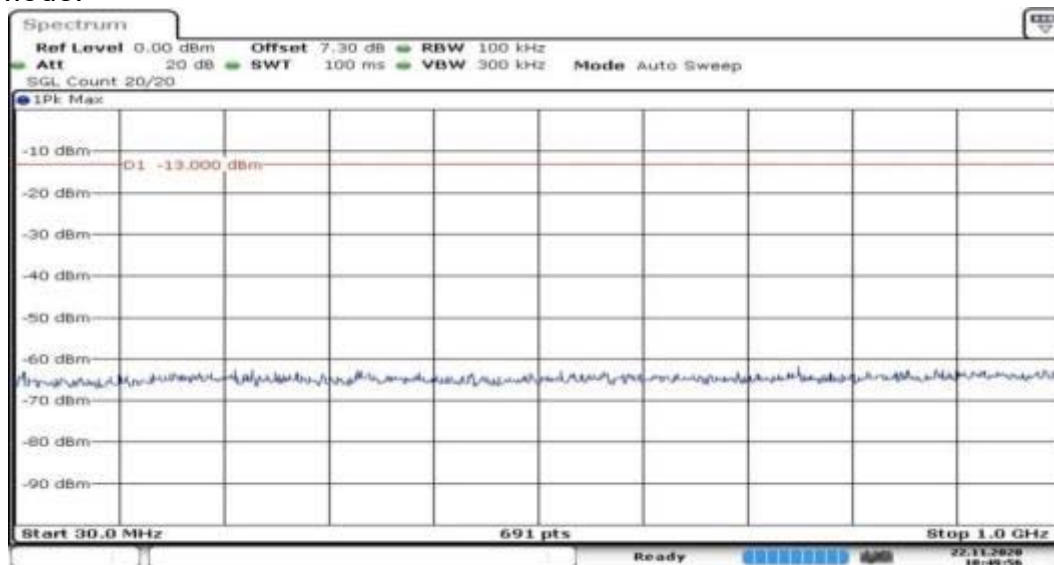
Date: 22.NOV.2020 12:12:17

Channel 1513

Spurious Emissions at antenna terminal

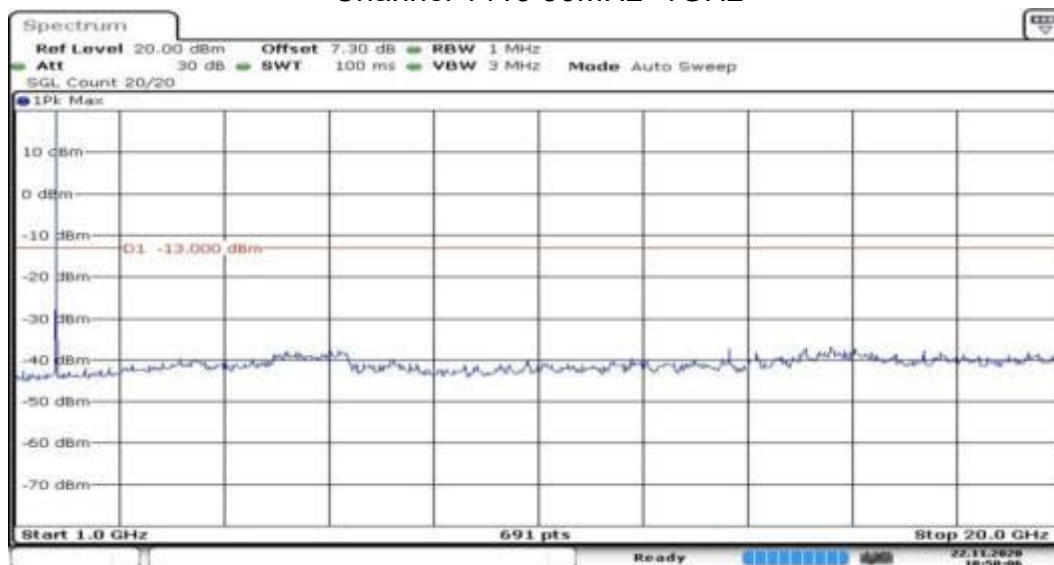
WCDMA band IV

REL99 Mode:



Date: 22 NOV 2020 10:49:57

Channel 1413 30MHz~1GHz

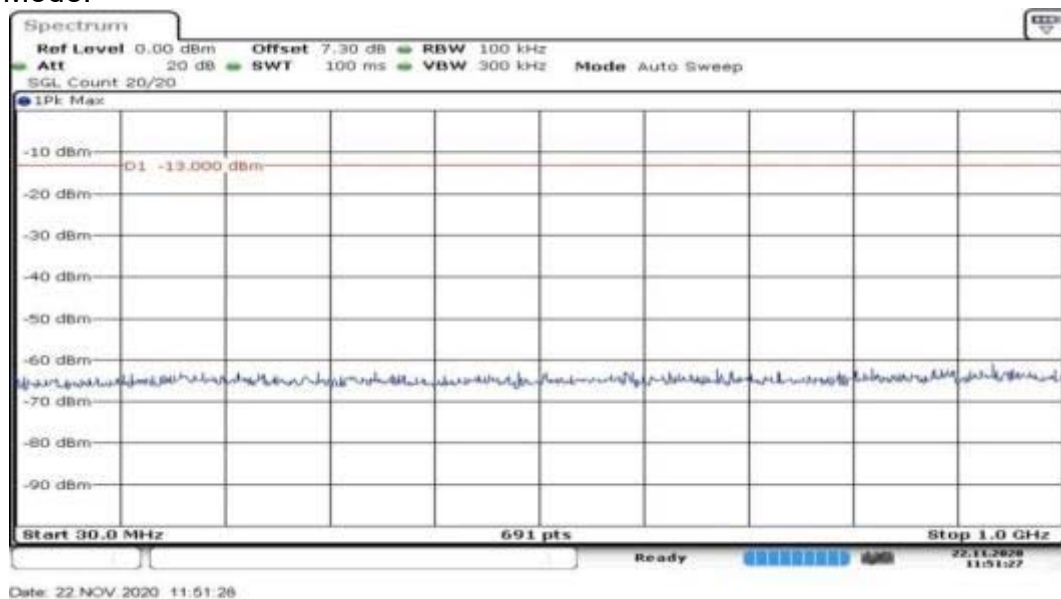


Date: 22 NOV 2020 10:50:06

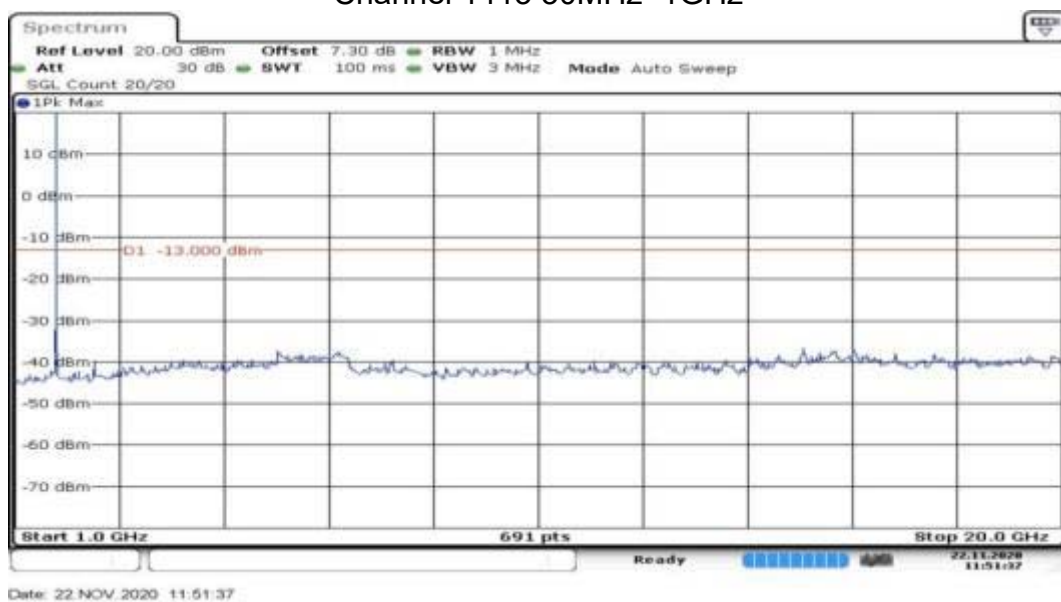
Channel 1413 1GHz~20GHz

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

HSDPA Mode:



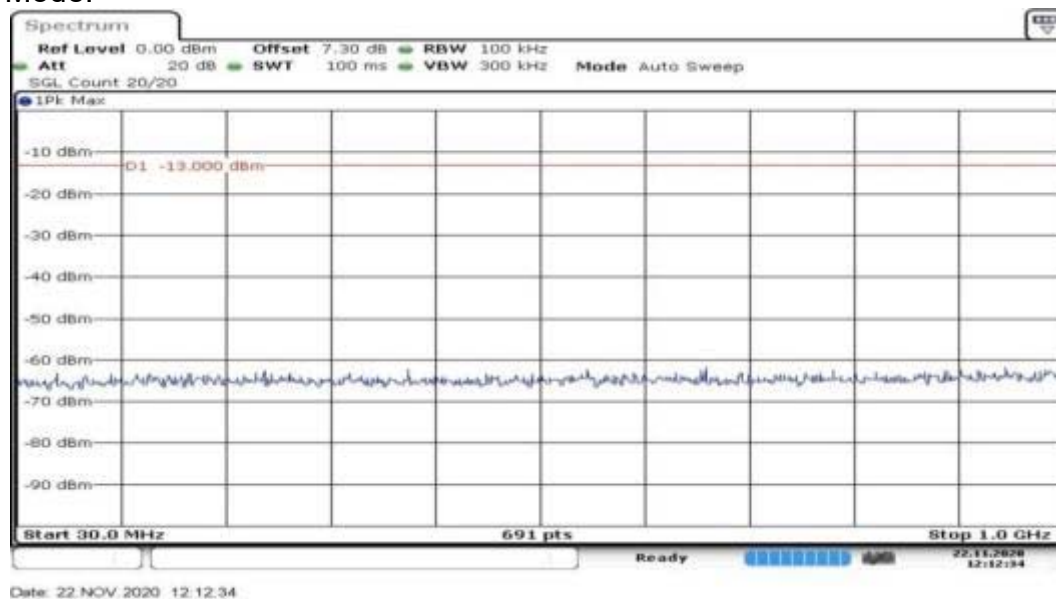
Channel 1413 30MHz~1GHz



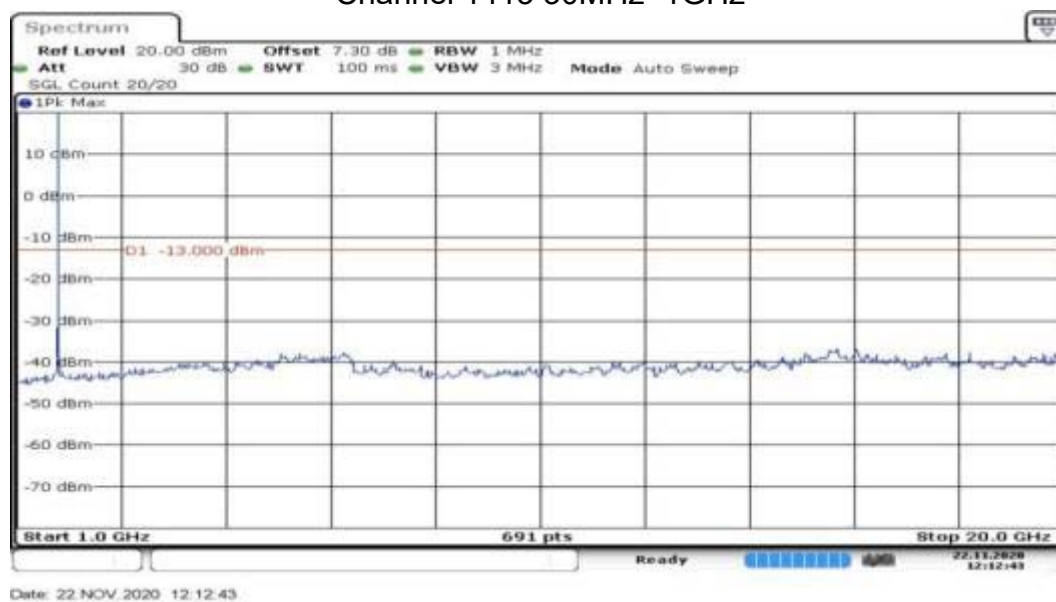
Channel 1413 1GHz~20GHz

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

HSUPA Mode:



Channel 1413 30MHz~1GHz



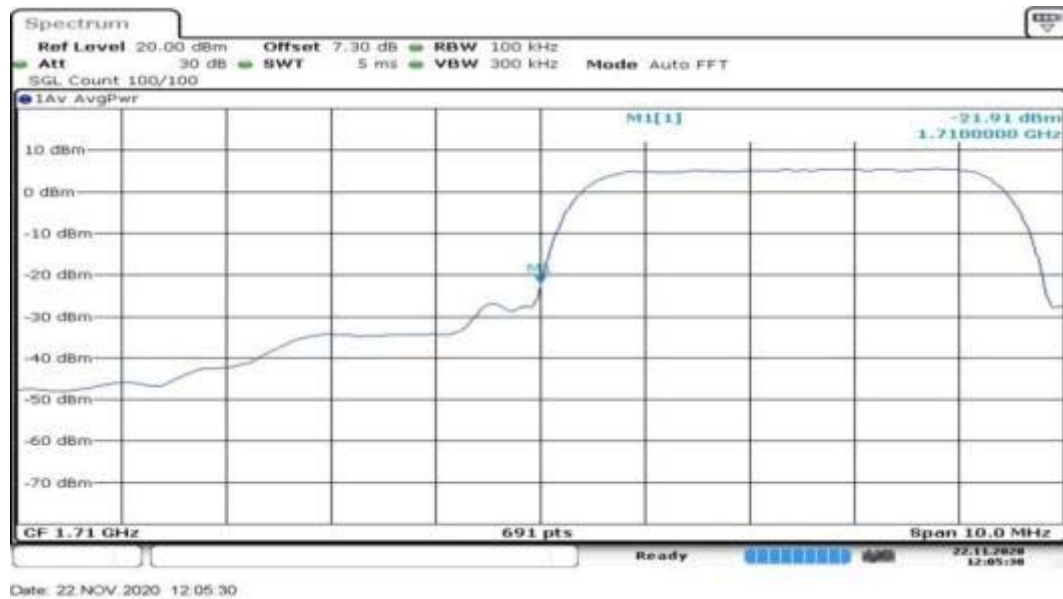
Channel 1413 1GHz~20GHz

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

Band Edges Compliance

WCDMA band IV

REL99 Mode:

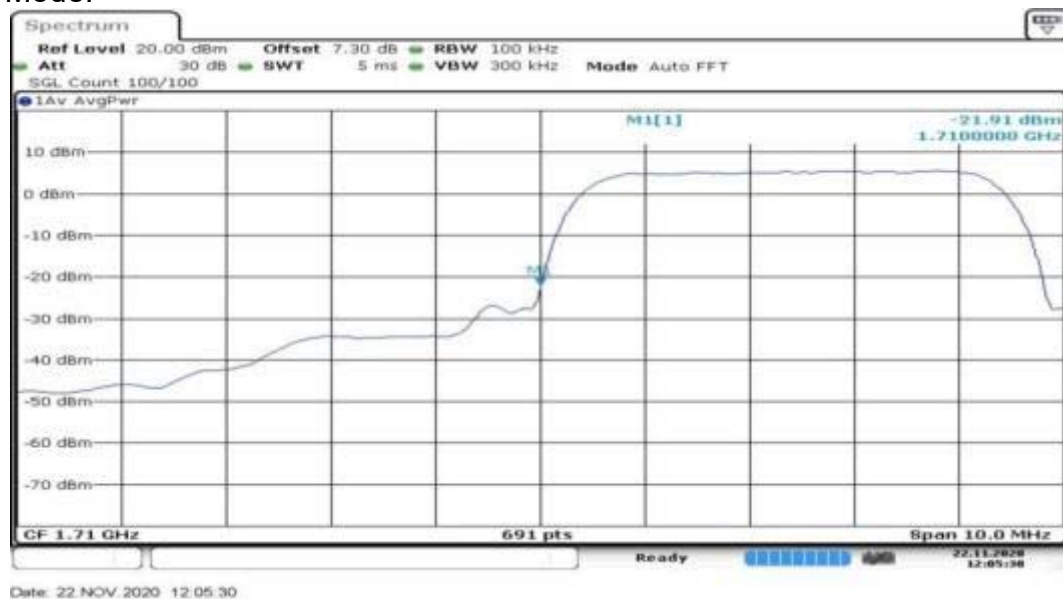


Channel 1312



Channel 1513

HSDPA Mode:



Channel 1312



Channel 1513

HSUPA Mode:



Channel 1312



Channel 1513

Frequency Stability

WCDMA band IV

REL99 Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1413	Channel 1513
-20	0.008	-0.009	-0.008
-10	0.006	0.005	0.004
0	0.009	-0.008	-0.007
+10	-0.006	-0.003	-0.001
+20	0.000	0.000	0.000
+30	0.003	-0.004	0.000
+40	0.004	-0.001	-0.005
+50	-0.001	-0.002	-0.001
+55	-0.002	-0.003	-0.004
Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1413	Channel 1513
LV	0.004	-0.005	0.002
HV	0.006	0.003	-0.004

HSDPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1413	Channel 1513
-30	0.007	0.006	-0.001
-20	-0.003	0.000	0.000
-10	0.003	-0.001	-0.006
0	-0.007	0.003	-0.006
+10	0.008	0.006	0.003
+20	0.000	0.000	0.000
+30	-0.003	-0.001	-0.008
+40	0.001	0.007	0.008
+50	-0.007	0.007	0.000
+55	0.004	0.005	0.002
Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1413	Channel 1513
LV	-0.007	-0.002	-0.005
HV	-0.002	0.005	0.009

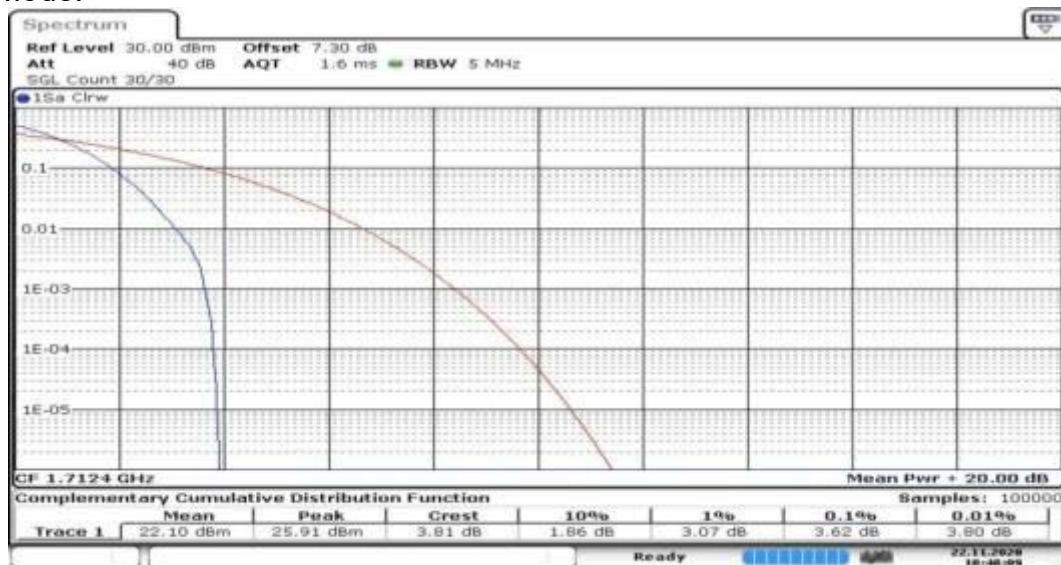
HSUPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1413	Channel 1513
-20	0.003	-0.008	0.006
-10	-0.006	0.006	-0.003
0	-0.001	0.009	-0.007
+10	0.002	0.005	-0.004
+20	0.000	0.000	0.000
+30	0.002	0.009	0.006
+40	0.007	-0.004	0.006
+50	-0.004	-0.008	-0.007
+55	0.003	-0.005	-0.005
Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1413	Channel 1513
LV	-0.008	0.007	0.003
HV	0.004	0.008	0.003

Peak-Average Ratio

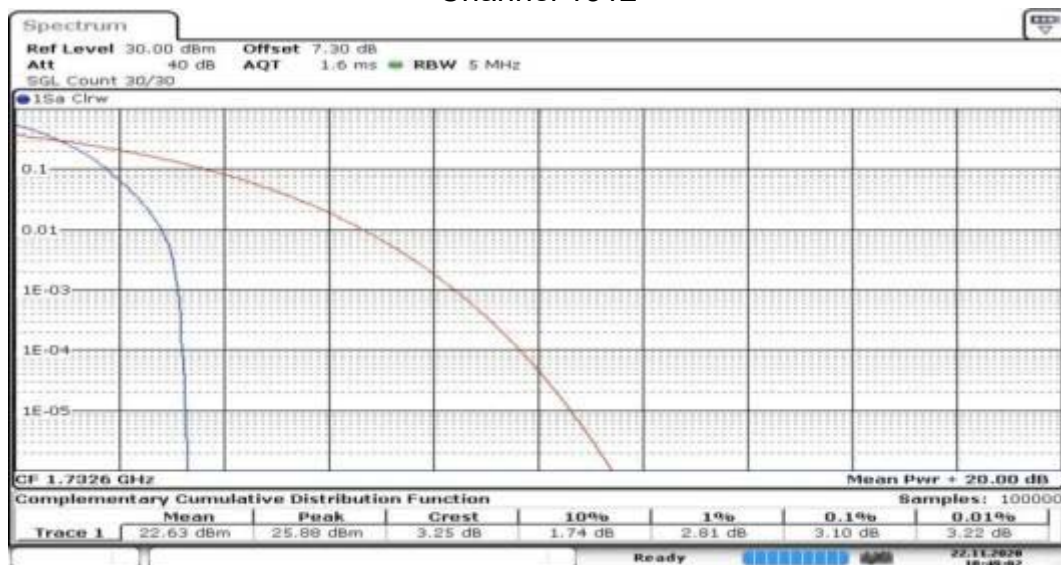
WCDMA band IV

REL99 Mode:



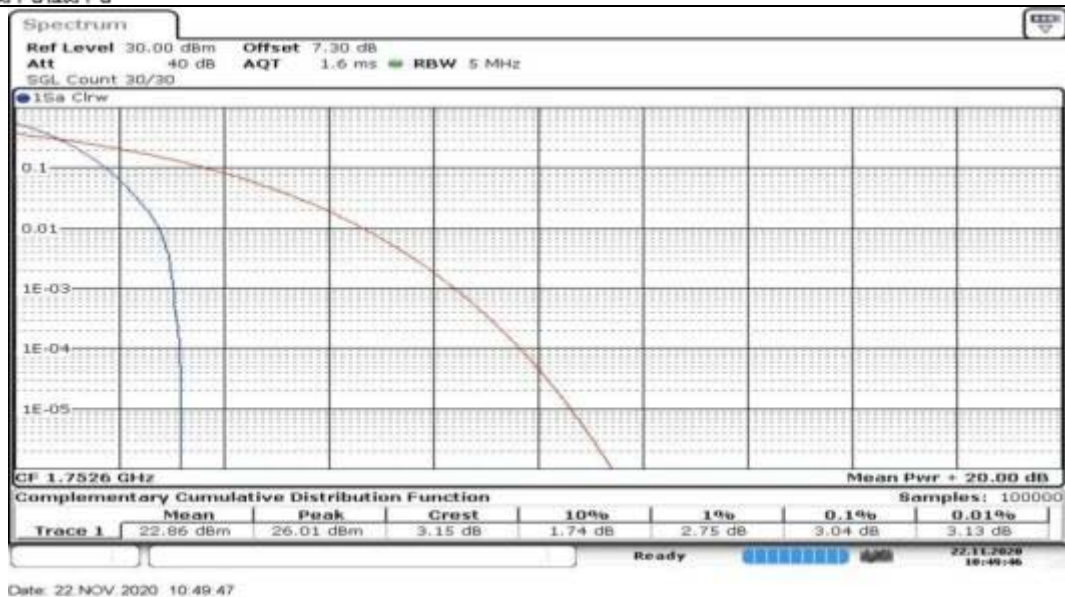
Date: 22 NOV. 2020 10:48:09

Channel 1312



Date: 22 NOV. 2020 10:49:02

Channel 1413

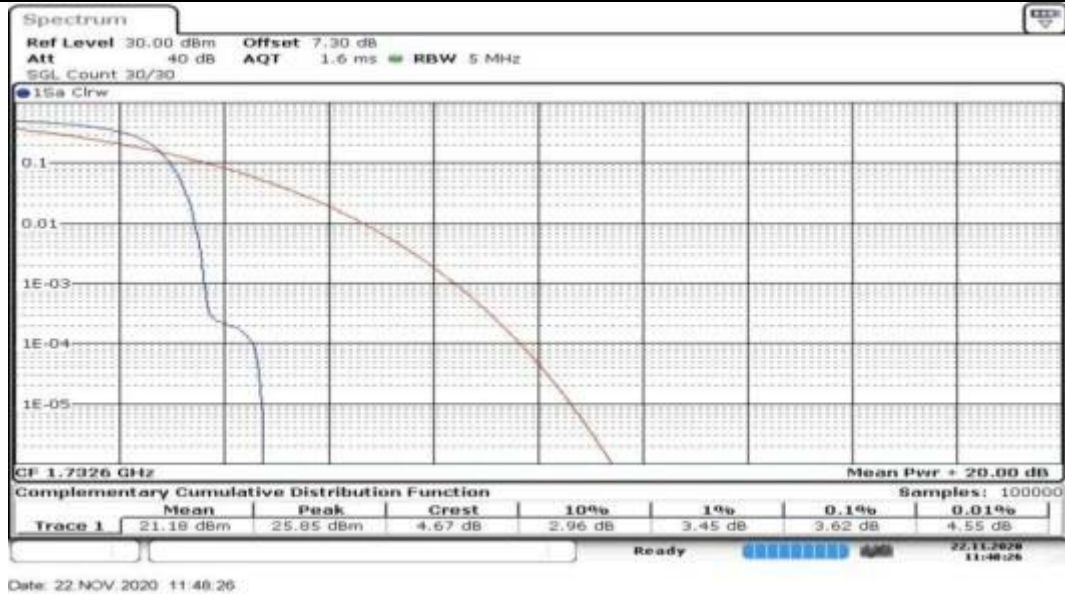


Channel 1513

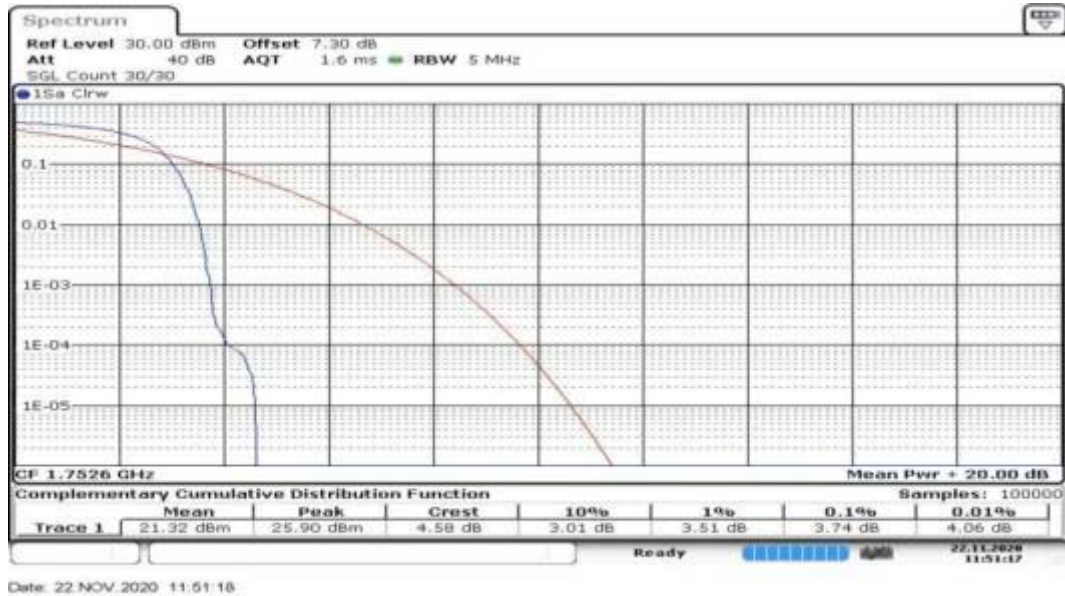
HSDPA Mode:



Channel 1312

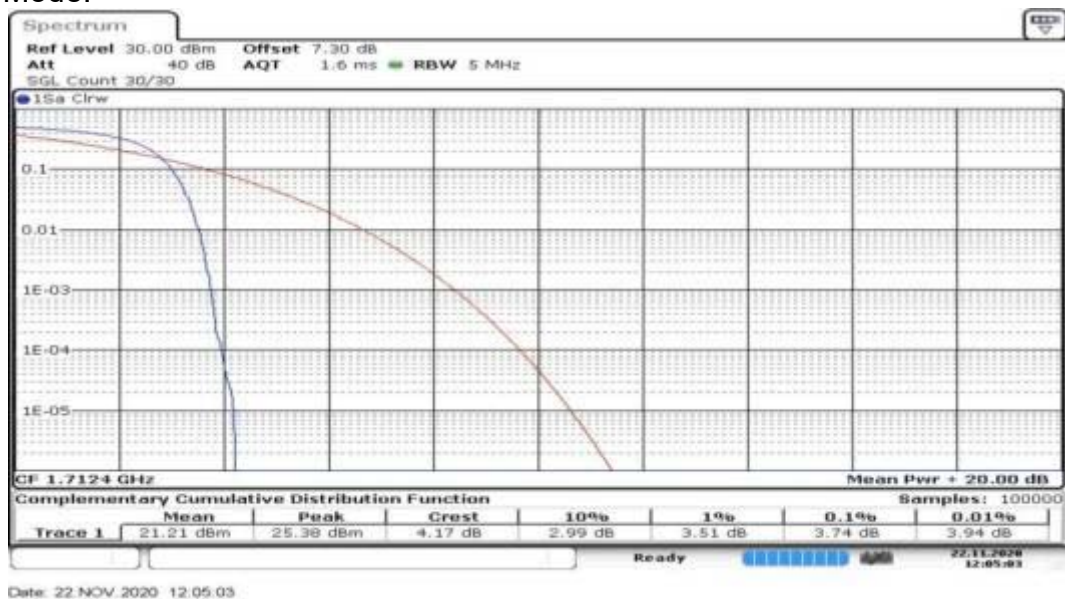


Channel 1413

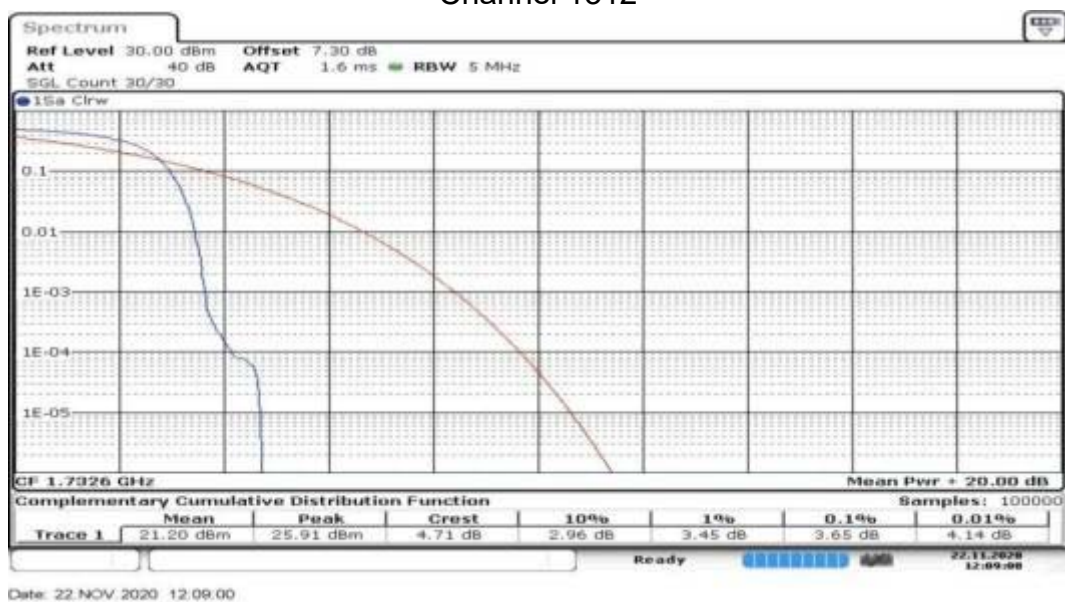


Channel 1513

HSUPA Mode:



Channel 1312



Channel 1413



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	23.32	25.32	0.340
		1732.6	1413	23.44	25.44	0.350
		1752.6	1513	23.52	25.52	0.360
HSDPA	Subtest1	1712.4	1312	22.36	24.36	0.273
		1732.6	1413	22.51	24.51	0.282
		1752.6	1513	22.55	24.55	0.285
	Subtest2	1712.4	1312	22.27	24.27	0.267
		1732.6	1413	22.49	24.49	0.281
		1752.6	1513	22.54	24.54	0.284
	Subtest3	1712.4	1312	21.82	23.82	0.241
		1732.6	1413	22.00	24.00	0.251
		1752.6	1513	22.05	24.05	0.254
	Subtest4	1712.4	1312	21.64	23.64	0.231
		1732.6	1413	21.98	23.98	0.250
		1752.6	1513	22.04	24.04	0.254
HSUPA	Subtest1	1712.4	1312	22.36	24.36	0.273
		1732.6	1413	22.49	24.49	0.281
		1752.6	1513	22.54	24.54	0.284
	Subtest2	1712.4	1312	22.33	24.33	0.271
		1732.6	1413	22.46	24.46	0.279
		1752.6	1513	22.56	24.56	0.286
	Subtest3	1712.4	1312	21.81	23.81	0.240
		1732.6	1413	21.96	23.96	0.249
		1752.6	1513	22.04	24.04	0.254
	Subtest4	1712.4	1312	22.31	24.31	0.270
		1732.6	1413	22.5	24.50	0.282
		1752.6	1513	22.53	24.53	0.284
	Subtest5	1712.4	1312	21.82	23.82	0.241
		1732.6	1413	21.97	23.97	0.249

		1752.6	1513	22.04	24.04	0.254
HSPA+	QPSK	1712.4	1312	22.31	24.31	0.270
		1732.6	1413	22.48	24.48	0.281
		1752.6	1513	22.56	24.56	0.286
	16QAM	1712.4	1312	22.32	24.32	0.270
		1732.6	1413	22.49	24.49	0.281
		1752.6	1513	22.55	24.55	0.285
DC-HSDPA	Subtest1	1712.4	1312	22.31	24.31	0.270
		1732.6	1413	22.48	24.48	0.281
		1752.6	1513	22.54	24.54	0.284
	Subtest2	1712.4	1312	22.34	24.34	0.272
		1732.6	1413	22.5	24.50	0.282
		1752.6	1513	22.57	24.57	0.286
	Subtest3	1712.4	1312	21.8	23.80	0.240
		1732.6	1413	22.01	24.01	0.252
		1752.6	1513	22.04	24.04	0.254
	Subtest4	1712.4	1312	21.65	23.65	0.232
		1732.6	1413	21.98	23.98	0.250
		1752.6	1513	22.06	24.06	0.255

RF Power Output

WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC, 12.2kbps	826.4	4132	23.71
		836.6	4183	23.74
		846.6	4233	23.75
HSDPA	Subtest1	836.6	4183	22.79
		846.6	4233	22.75
		826.4	4132	22.76
	Subtest2	836.6	4183	22.79
		846.6	4233	22.76
		826.4	4132	22.52
	Subtest3	836.6	4183	22.28
		846.6	4233	22.26
		826.4	4132	22.27
	Subtest4	836.6	4183	22.27
		846.6	4233	22.26
		826.4	4132	22.25
HSUPA	Subtest1	826.4	4132	22.70
		836.6	4183	22.74
		846.6	4233	22.75
	Subtest2	826.4	4132	22.75
		836.6	4183	22.77
		846.6	4233	22.78
	Subtest3	826.4	4132	22.19
		836.6	4183	22.25
		846.6	4233	22.26
	Subtest4	826.4	4132	22.76
		836.6	4183	22.75
		846.6	4233	22.77
	Subtest5	826.4	4132	22.18
		836.6	4183	22.25
		846.6	4233	22.24
HSPA+	QPSK	826.4	4132	22.71
		836.6	4183	22.75
		846.6	4233	22.74
	16QAM	826.4	4132	22.70
		836.6	4183	22.75
		846.6	4233	22.75

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
DC-HSDPA	Subtest1	826.4	4132	22.78
		836.6	4183	22.76
		846.6	4233	22.79
	Subtest2	826.4	4132	22.76
		836.6	4183	22.76
		846.6	4233	22.79
	Subtest3	826.4	4132	22.26
		836.6	4183	22.27
		846.6	4233	22.27
	Subtest4	826.4	4132	22.24
		836.6	4183	22.27
		846.6	4233	22.26

Occupied Bandwidth

WCDMA band V

REL99 Mode:

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

HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
836.6	4183	4.15
846.6	4233	4.15
826.4	4132	4.17

HSUPA Mode:

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

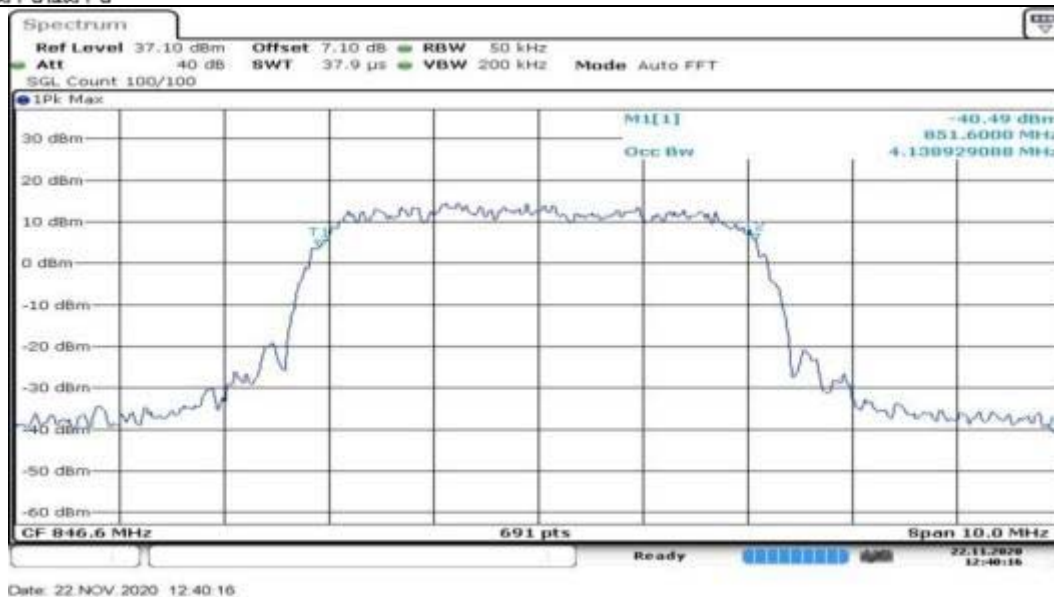
WCDMA band V
REL99 Mode:



Channel 4132

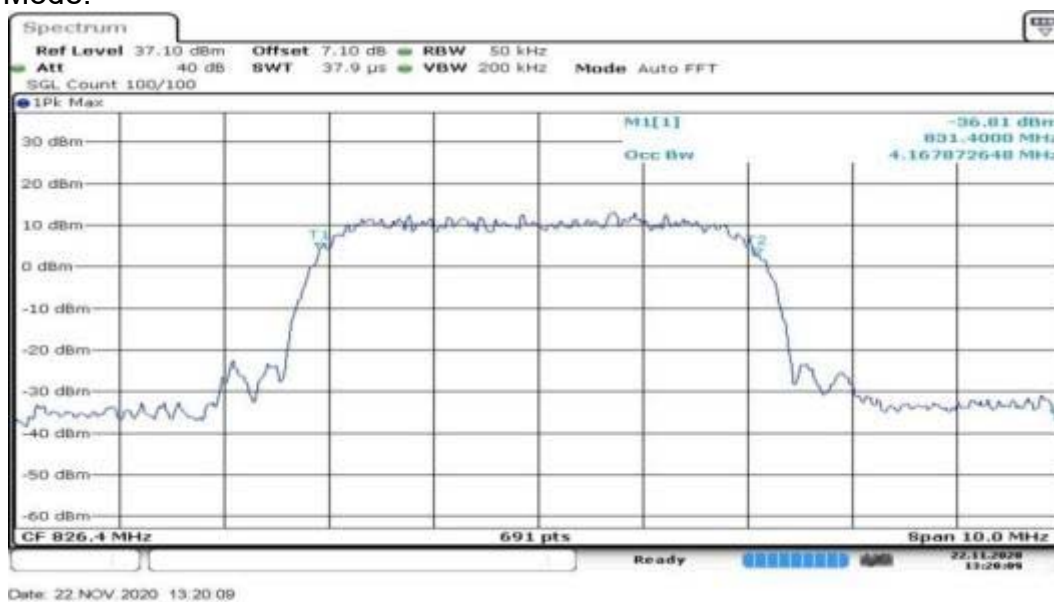


Channel 4183

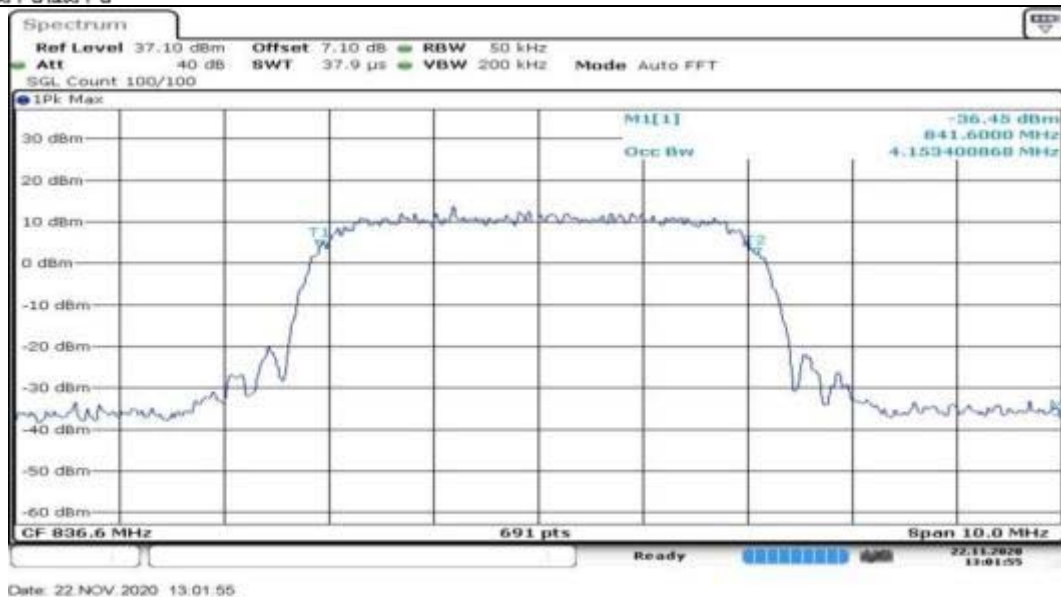


Channel 4233

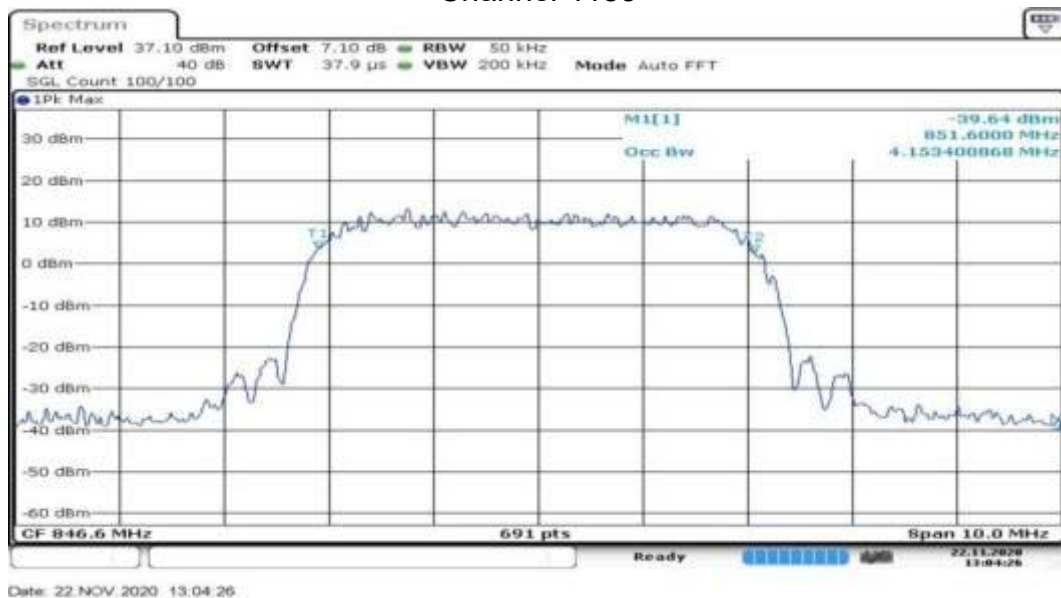
HSDPA Mode:



Channel 4132

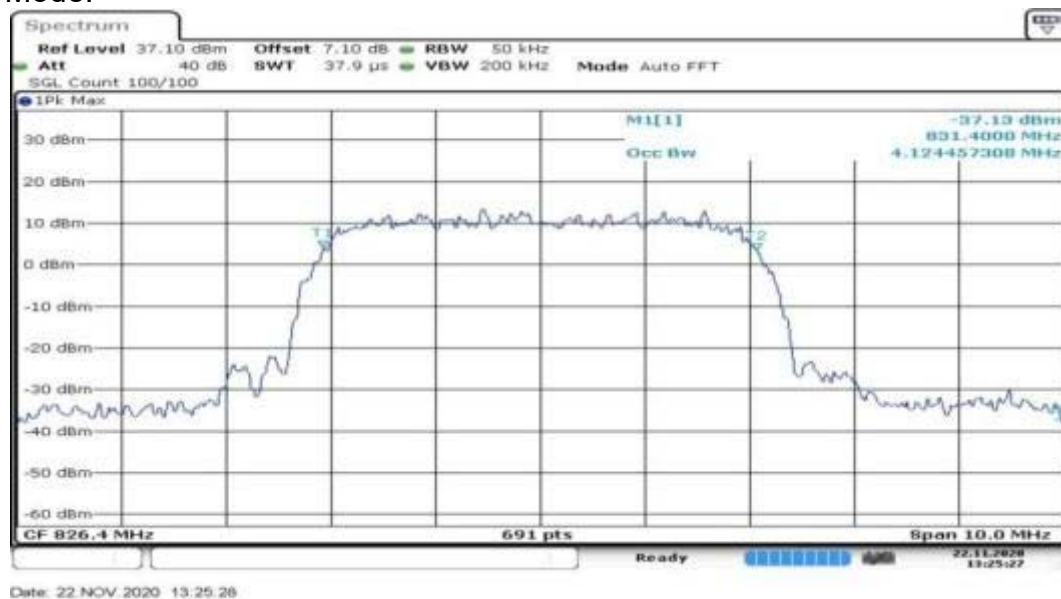


Channel 4183

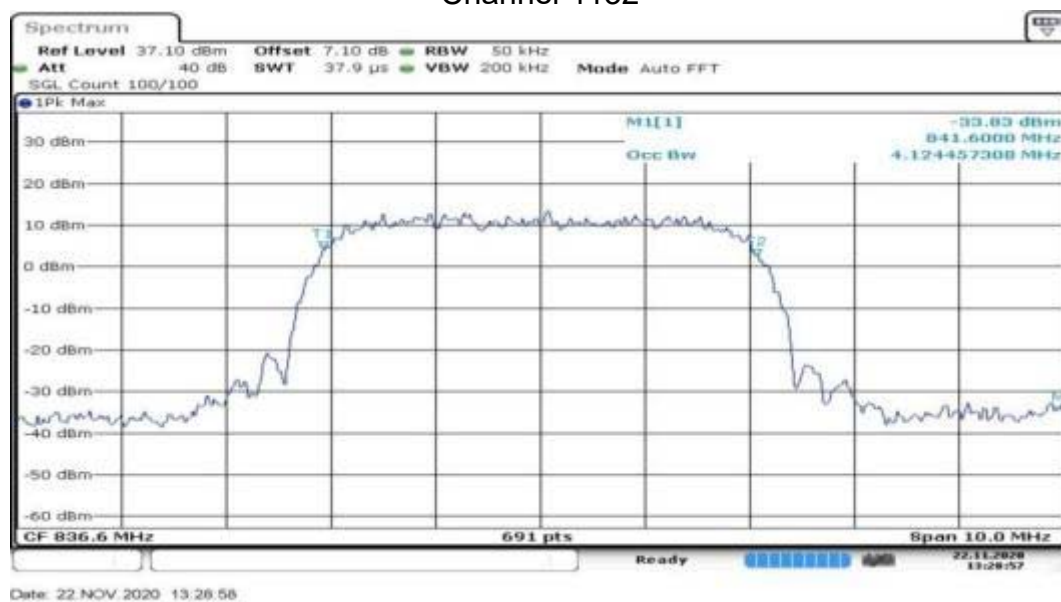


Channel 4233

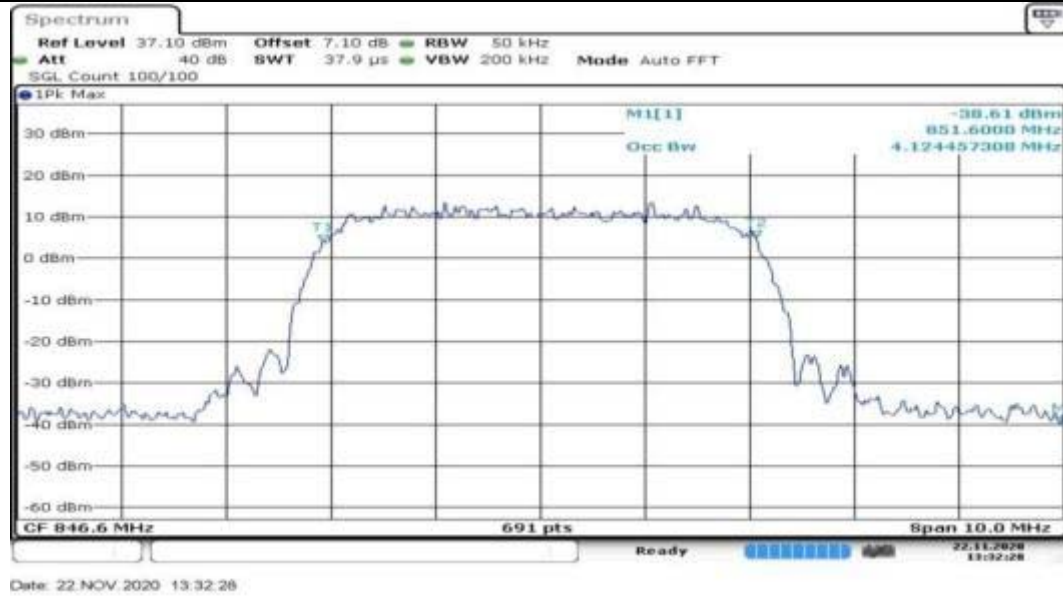
HSUPA Mode:



Channel 4132



Channel 4183



Channel 4233

Emission Bandwidth

WCDMA band V

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
826.4	4132	4.70
836.6	4183	4.67
846.6	4233	4.67

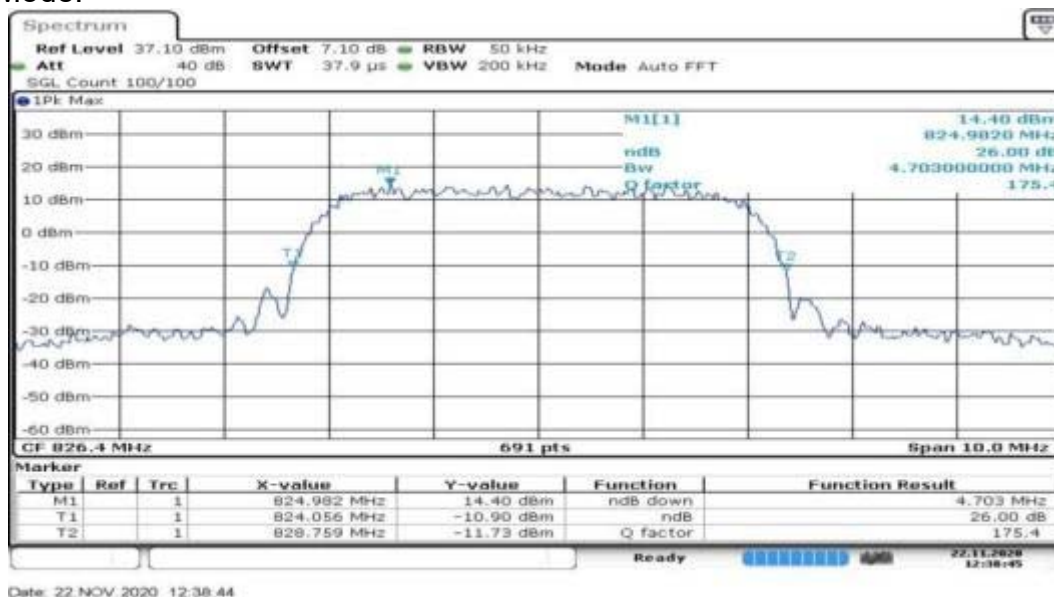
HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
836.6	4183	4.69
846.6	4233	4.67
826.4	4132	4.72

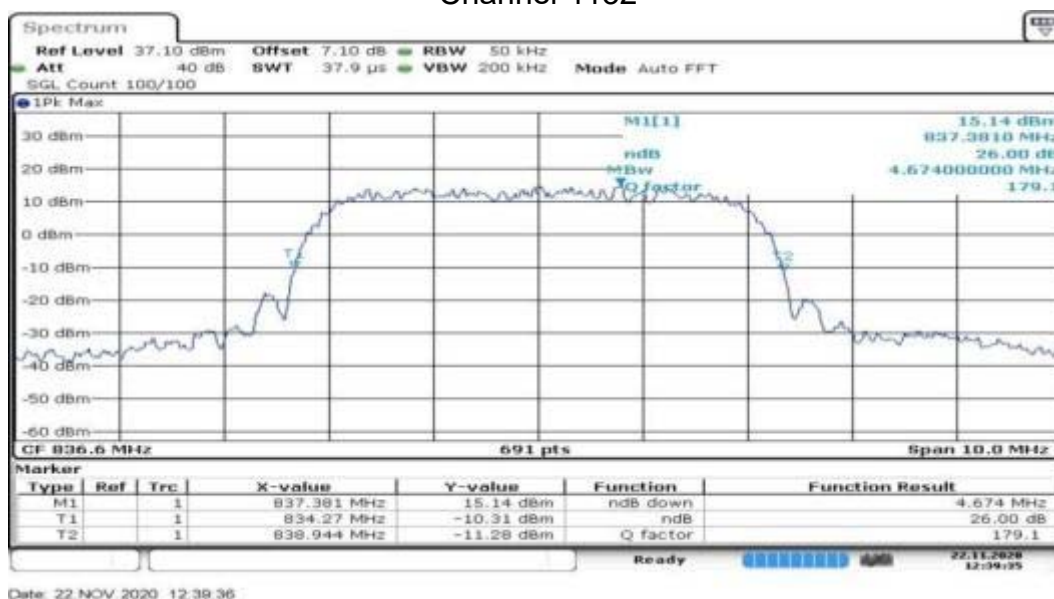
HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
826.4	4132	4.67
836.6	4183	4.63
846.6	4233	4.70

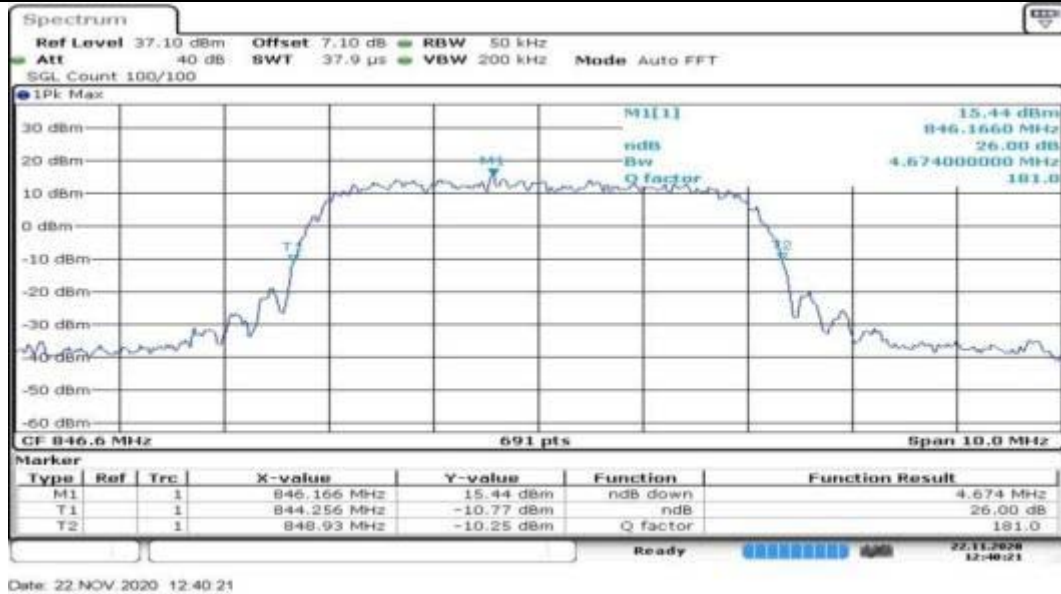
WCDMA band V
REL99 Mode:



Channel 4132

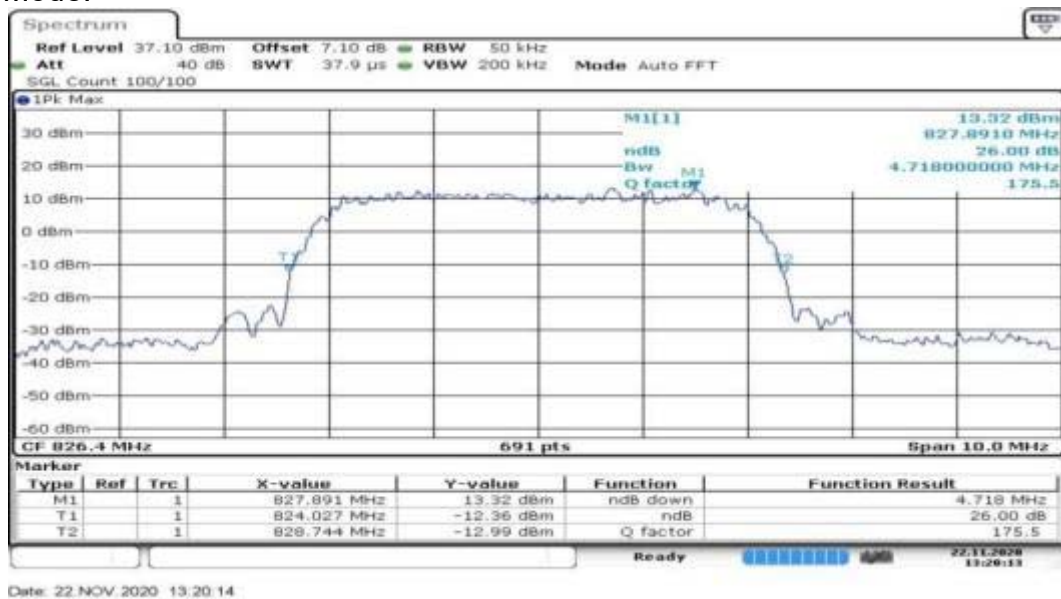


Channel 4183

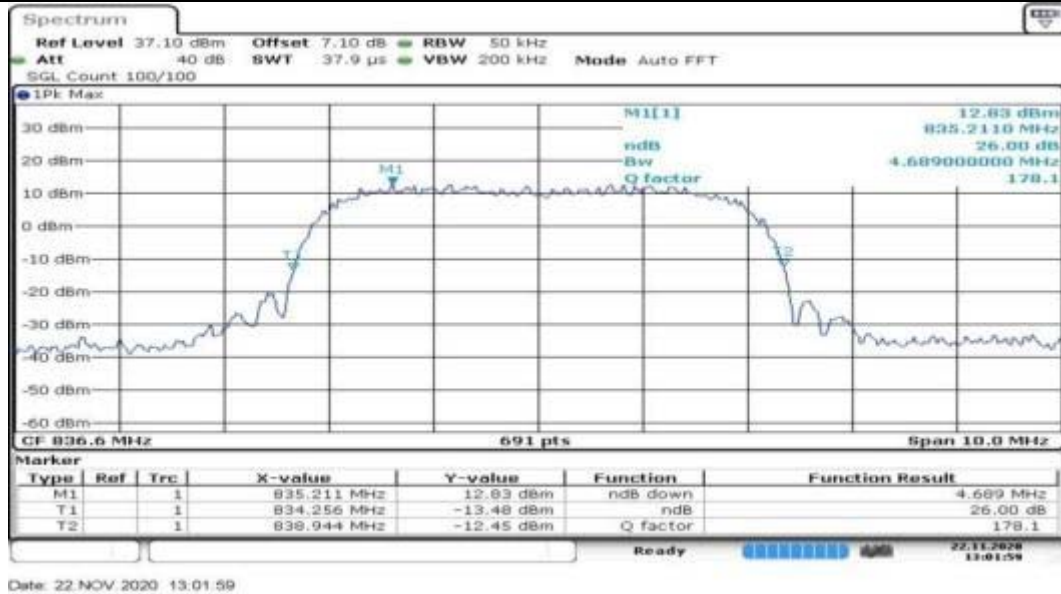


Channel 4233

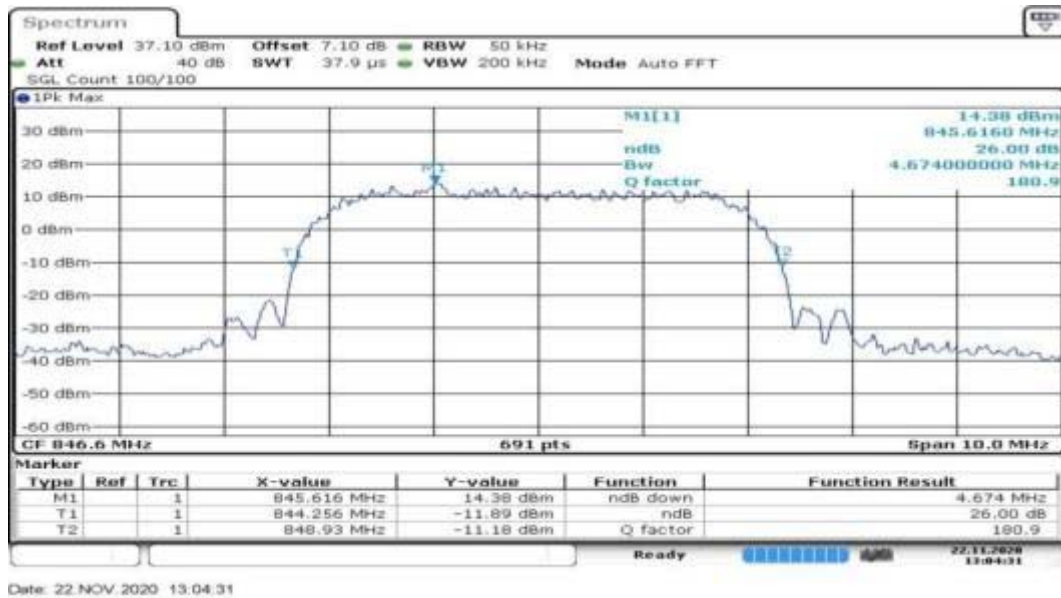
HSDPA Mode:



Channel 4132

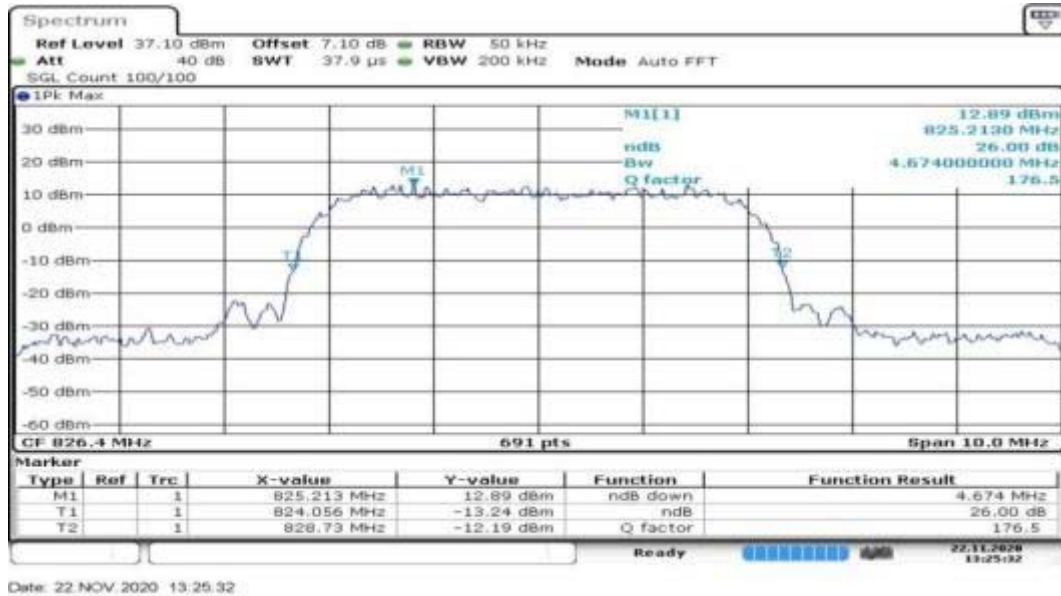


Channel 4183

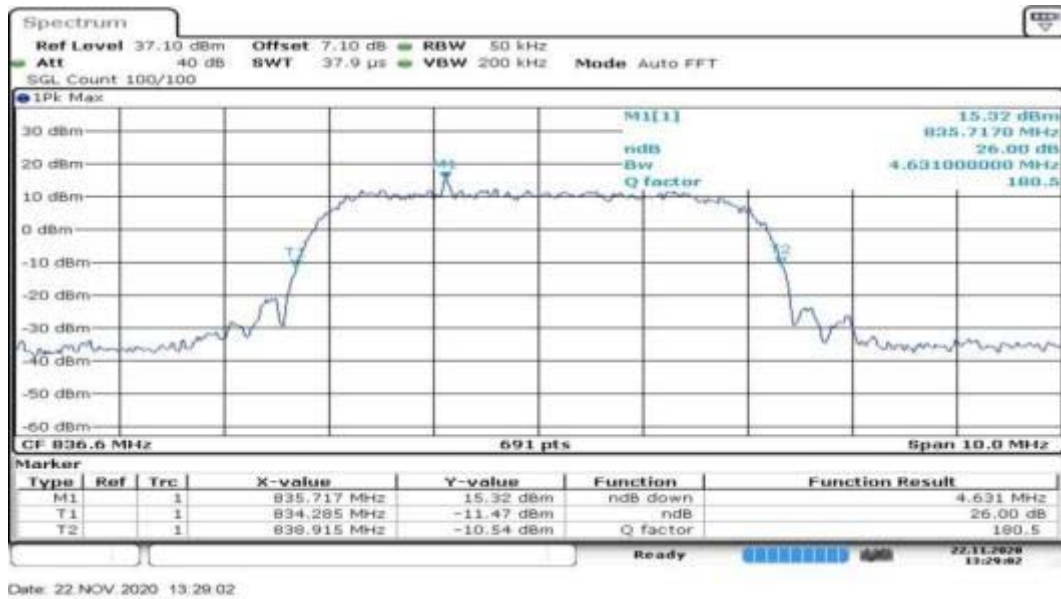


Channel 4233

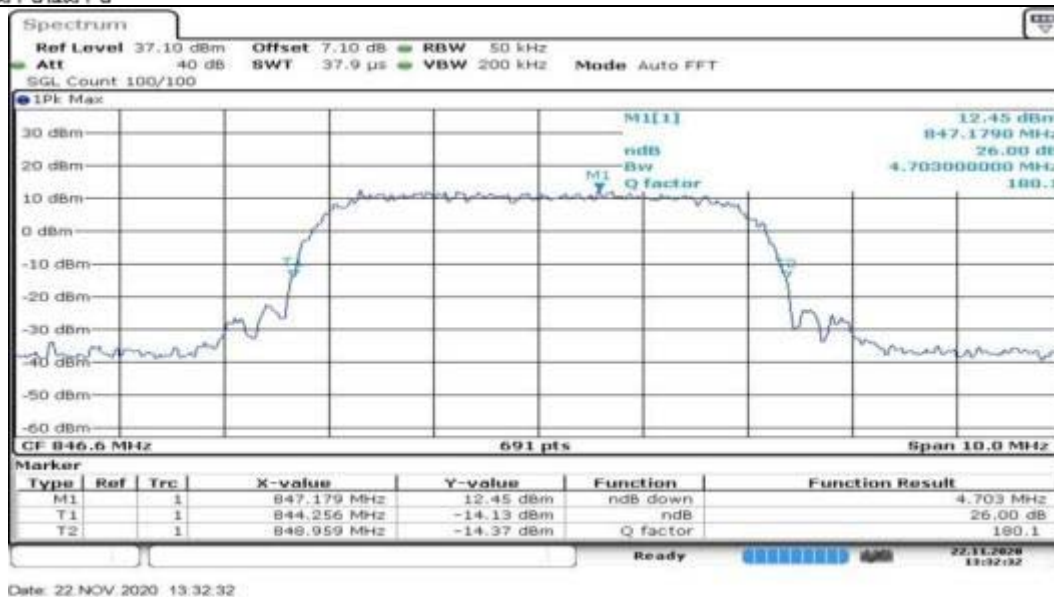
HSUPA Mode:



Channel 4132



Channel 4183

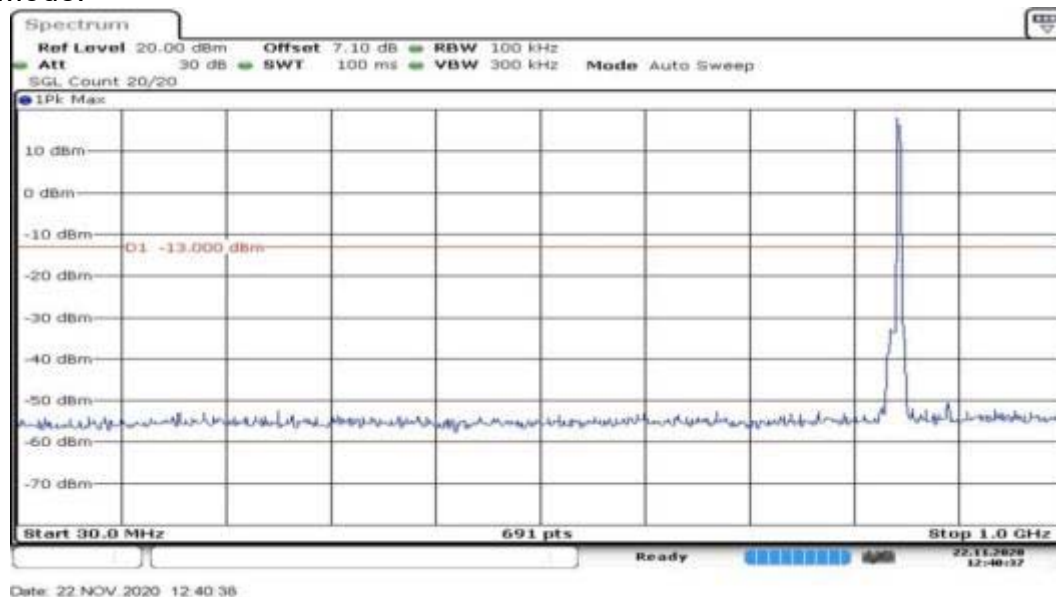


Channel 4233

Spurious Emissions at antenna terminal

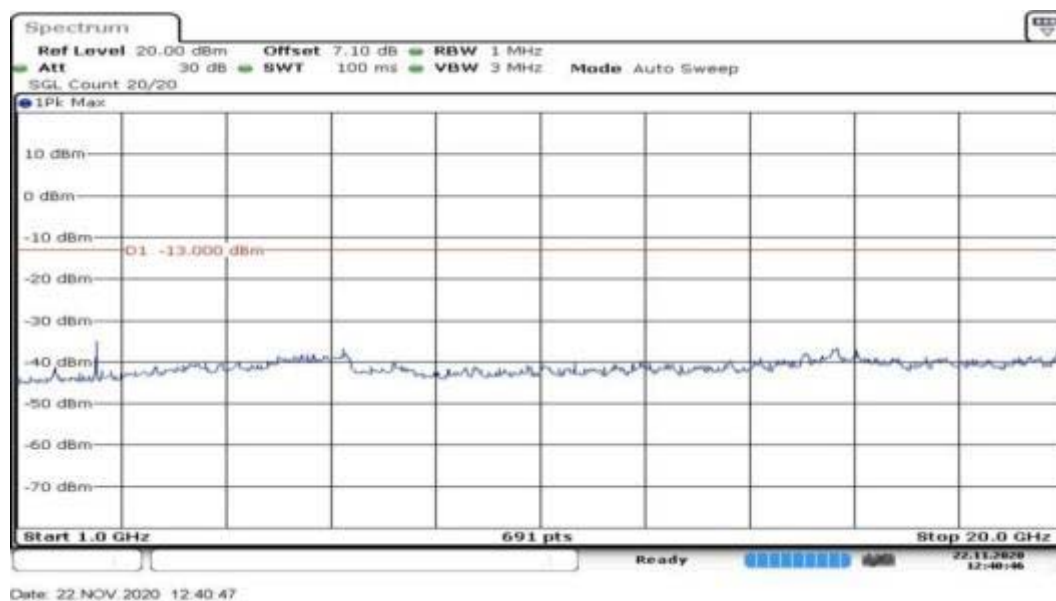
WCDMA band V

REL99 Mode:



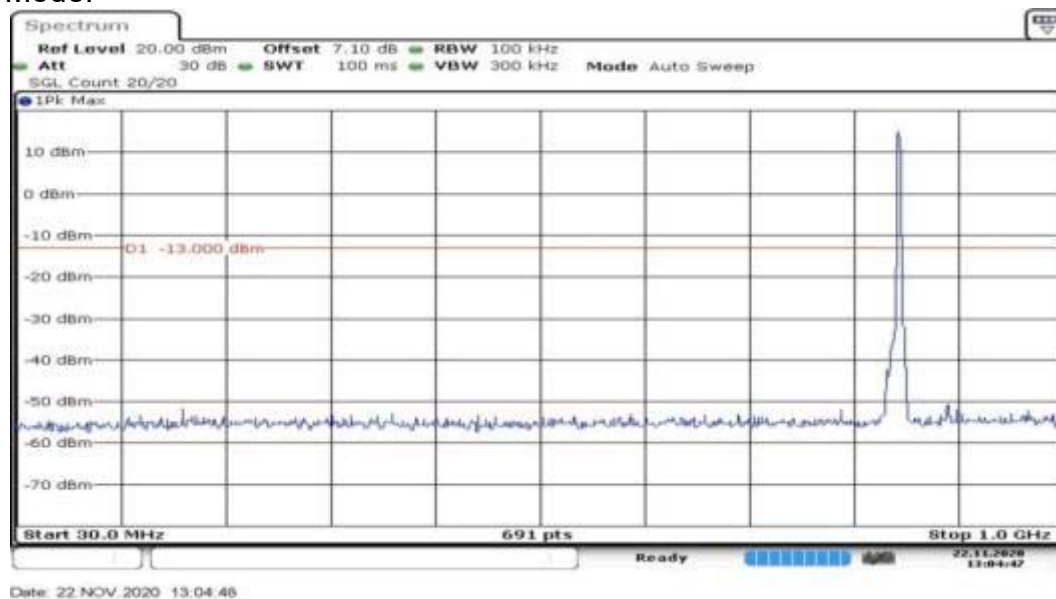
Channel 4183 30MHz~1GHz

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



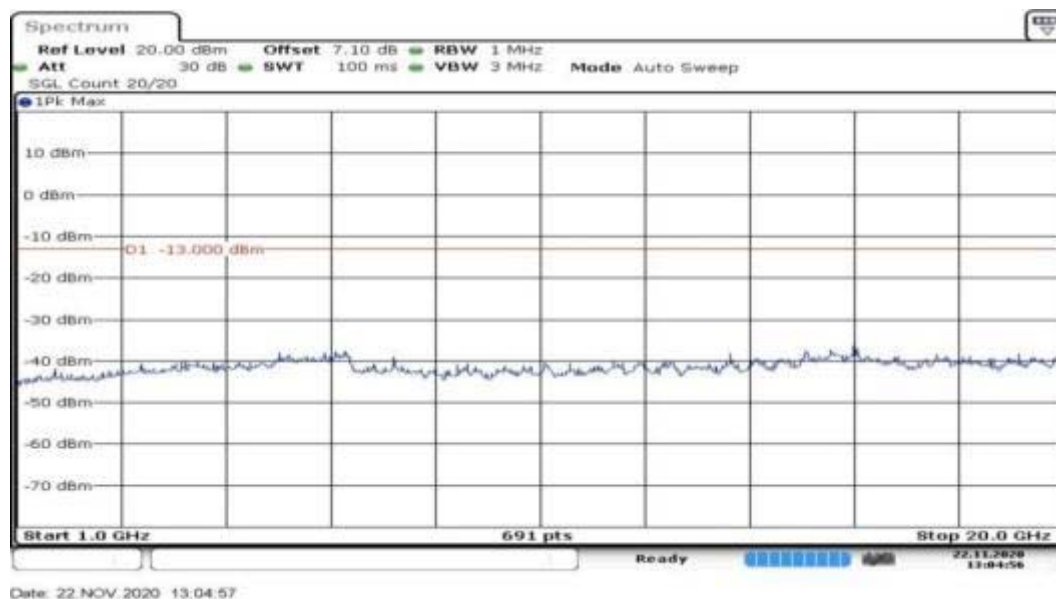
Channel 4183 1GHz~20GHz(dBm) (1,1,1,62SpuriousEmissions.jpg)

HSDPA Mode:



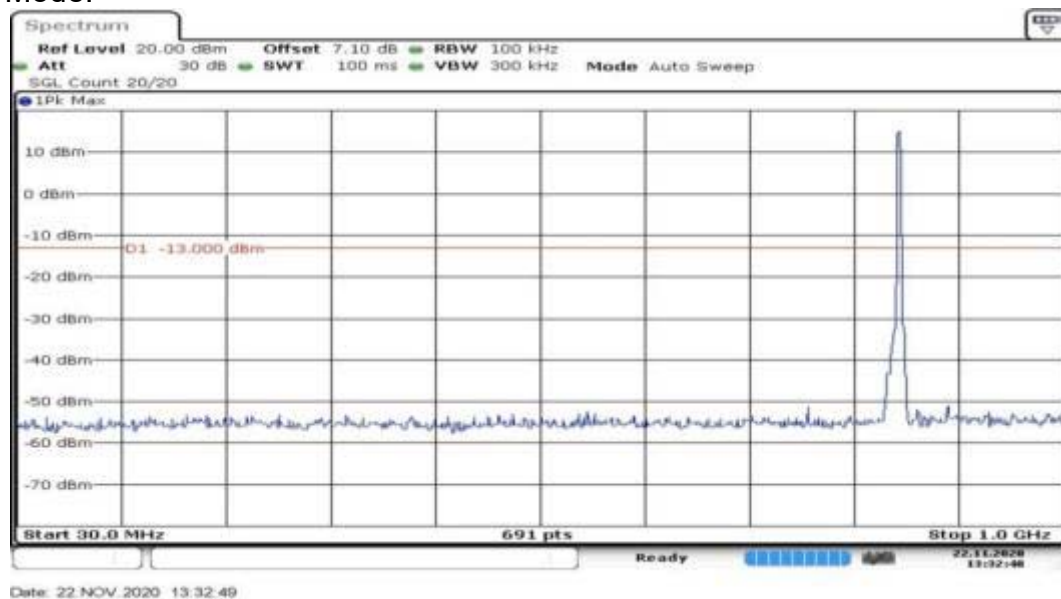
Channel 4183 30MHz~1GHz

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



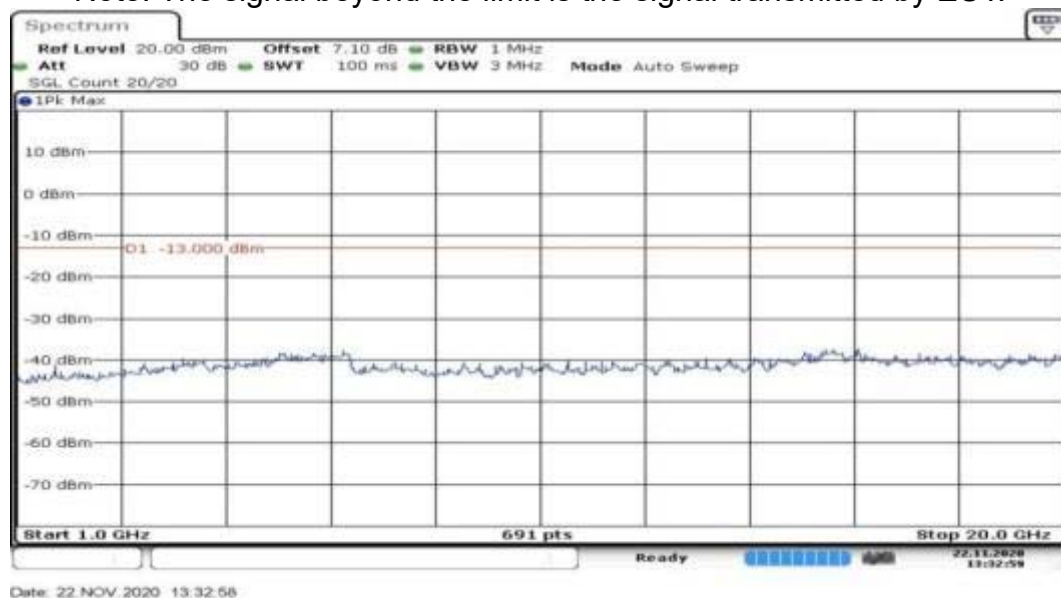
Channel 4183 1GHz~20GHz

HSUPA Mode:



Channel 4183 30MHz~1GHz

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



Channel 4183 1GHz~20GHz

Band Edges Compliance

WCDMA band V

REL99 Mode:



Date: 22 NOV, 2020 13:26:07

Channel 4132



Date: 22 NOV, 2020 13:33:07

Channel 4233

HSDPA Mode:



Channel 4132



Channel 4233

HSUPA Mode:



Channel 4132



Channel 4233

Frequency Stability

WCDMA band V

REL99 Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
-20	0.005	0.004	0.001
-10	-0.006	0.007	0.002
0	0.006	-0.005	-0.003
+10	-0.003	0.003	-0.006
+20	0.000	0.000	0.000
+30	0.003	0.003	0.004
+40	0.003	0.002	-0.004
+50	0.006	0.003	-0.006
+55	0.003	0.004	-0.003
Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	-0.007	0.005	0.002
HV	-0.001	0.001	-0.003

HSDPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
-20	-0.002	-0.006	-0.002
-10	0.003	-0.006	0.006
0	0.005	0.002	0.004
+10	0.007	0.006	0.004
+20	0.000	0.001	0.000
+30	0.007	0.006	-0.004
+40	0.002	0.000	0.006
+50	0.004	0.003	0.002
+55	0.003	-0.004	0.001
Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	-0.001	-0.003	-0.003
HV	0.003	0.002	0.004

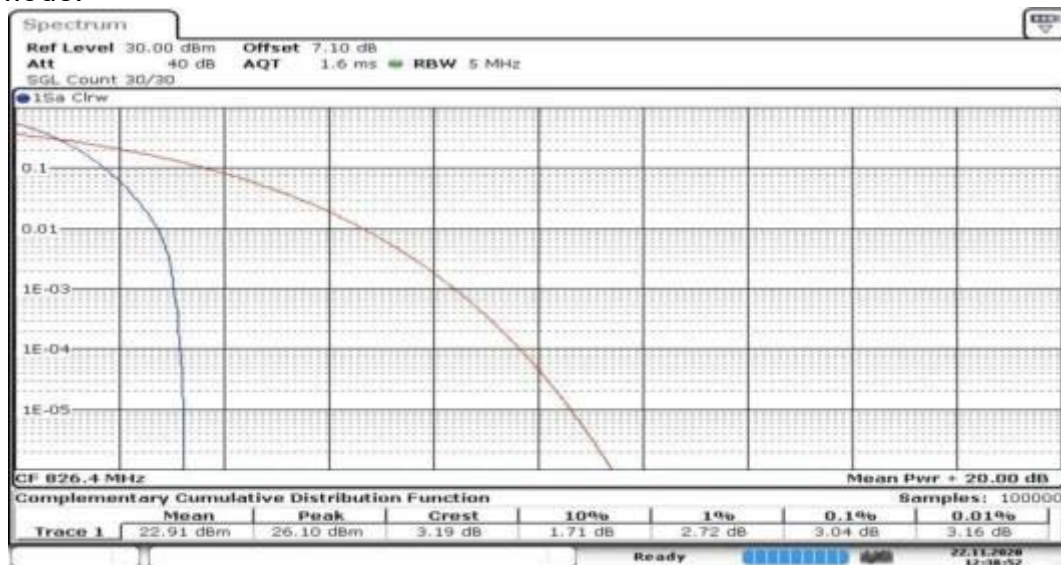
HSUPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
-20	0.002	0.004	-0.005
-10	0.000	-0.004	-0.005
0	0.004	-0.004	0.005
+10	-0.002	-0.006	0.006
+20	0.000	0.000	0.000
+30	0.005	0.005	-0.004
+40	-0.005	-0.005	-0.007
+50	-0.006	-0.001	0.005
+55	0.003	-0.002	0.004
Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	0.005	-0.011	0.002
HV	0.001	0.009	0.001

Peak-Average Ratio

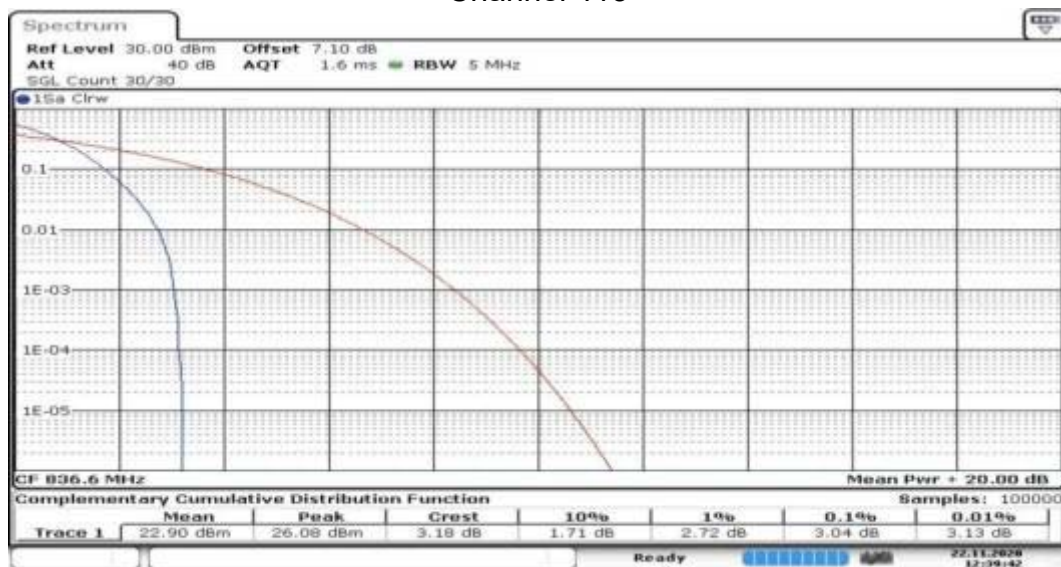
WCDMA band V

REL99 Mode:



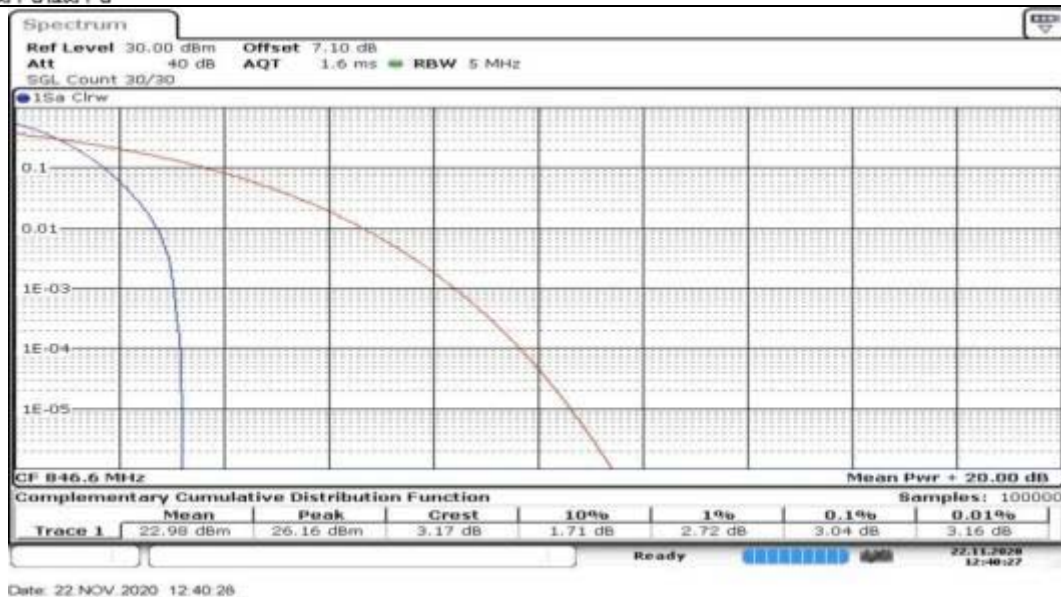
Date: 22 NOV 2020 12:38:51

Channel 413



Date: 22 NOV 2020 12:39:43

Channel 4183

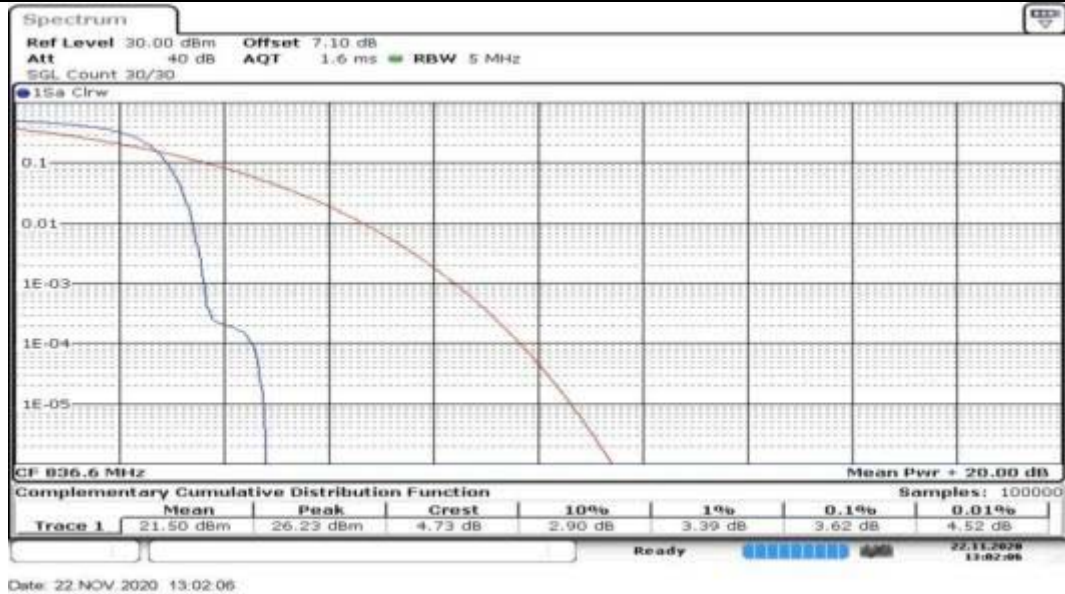


Channel 4233

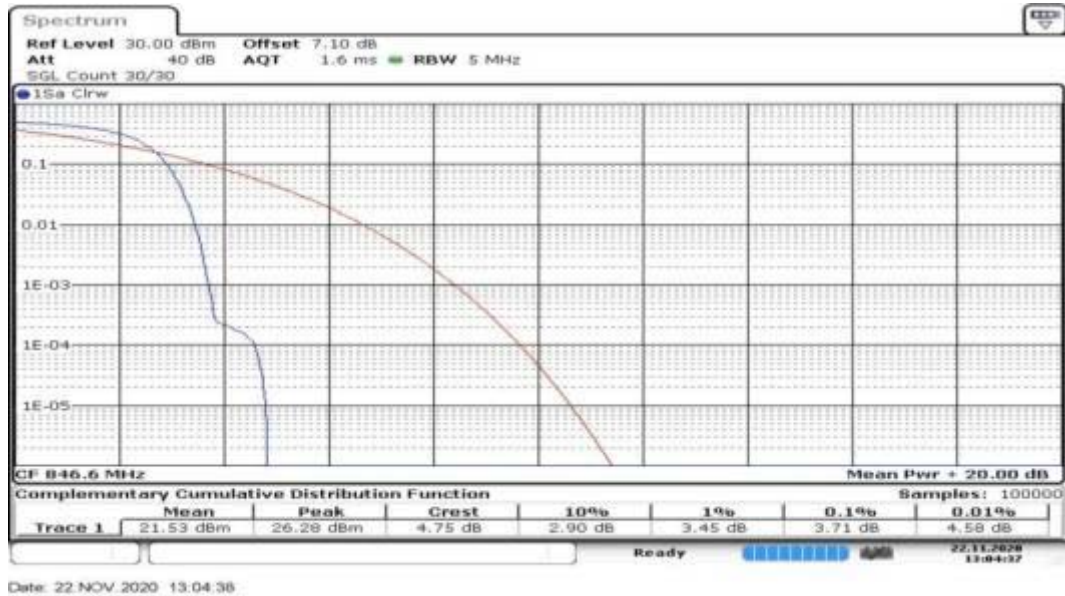
HSDPA Mode:



Channel 4132

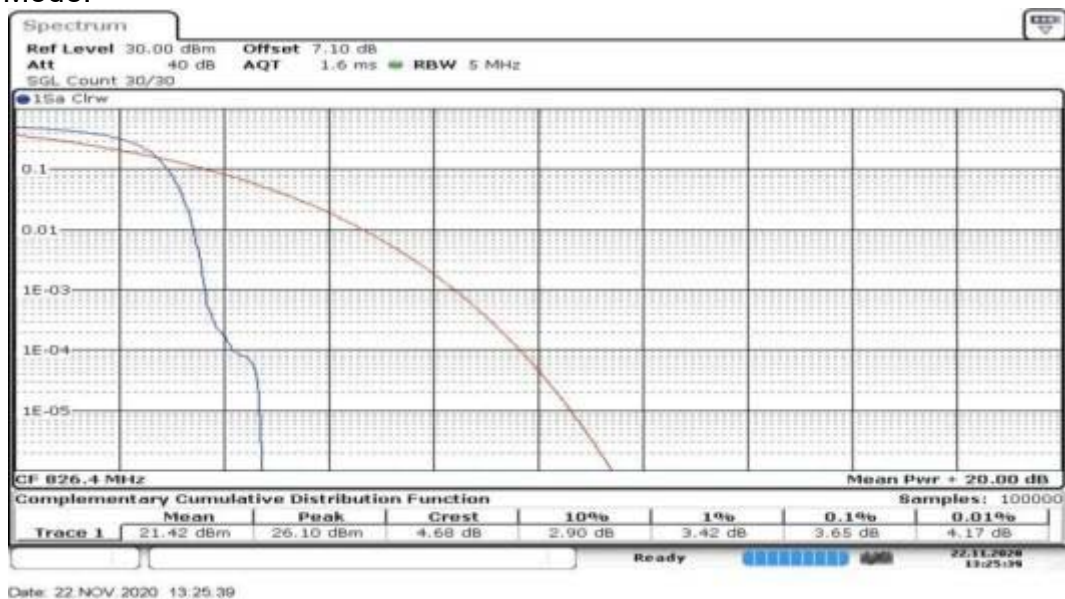


Channel 4183

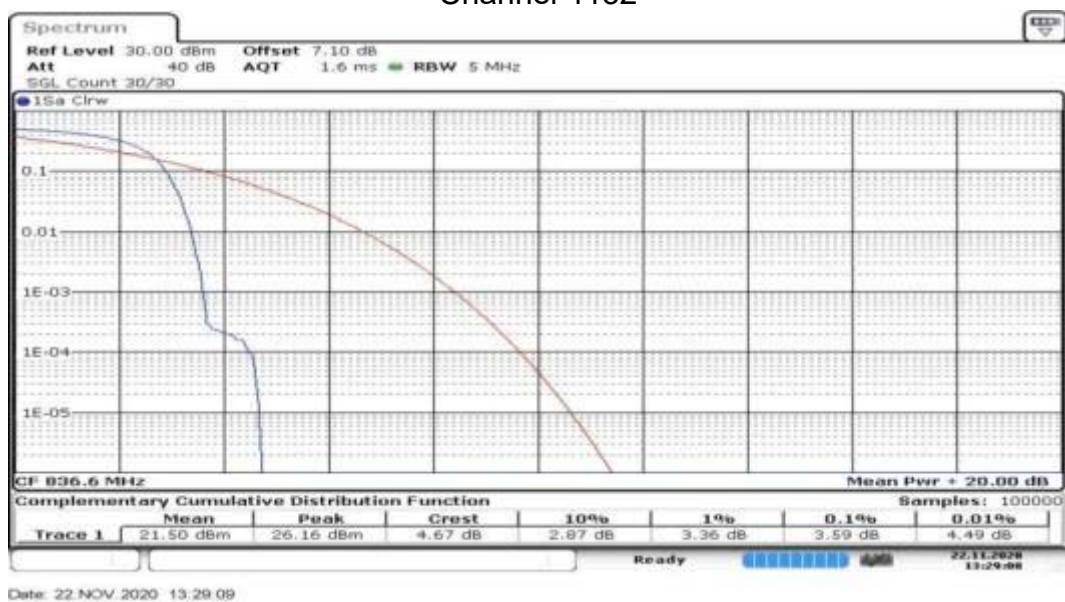


Channel 4233

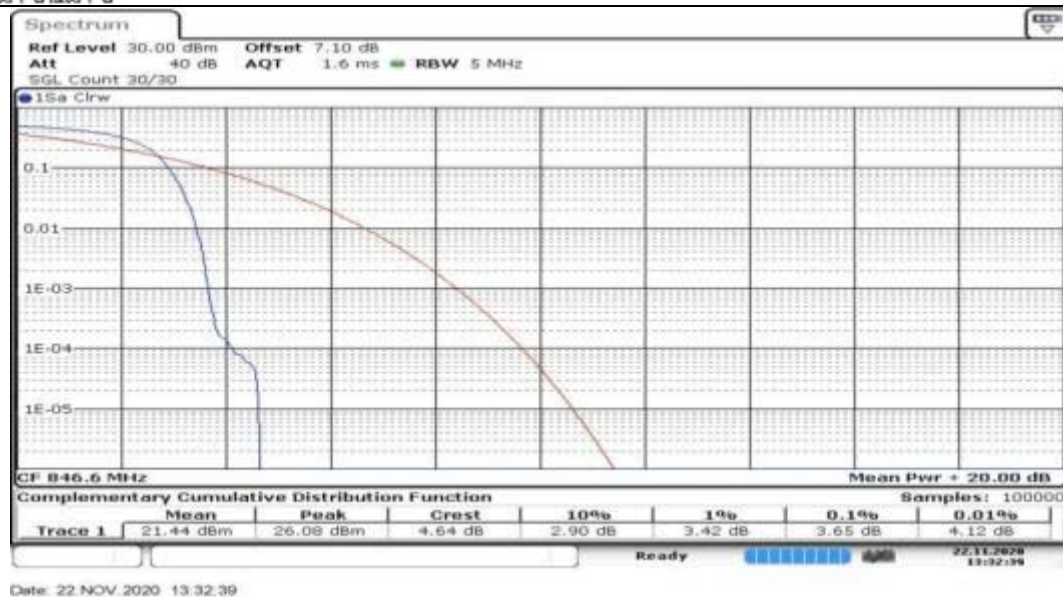
HSUPA Mode:



Channel 4132



Channel 4183



Channel 4233

Effective Radiated Power and Effective Isotropic Radiated Power

WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC, 12.2kbps	826.4	4132	23.71	22.66	0.185
		836.6	4183	23.74	22.69	0.186
		846.6	4233	23.75	22.70	0.186
HSDPA	Subtest1	836.6	4183	22.79	21.74	0.149
		846.6	4233	22.75	21.70	0.148
		826.4	4132	22.76	21.71	0.148
	Subtest2	836.6	4183	22.79	21.74	0.149
		846.6	4233	22.76	21.71	0.148
		826.4	4132	22.52	21.47	0.140
	Subtest3	836.6	4183	22.28	21.23	0.133
		846.6	4233	22.26	21.21	0.132
		826.4	4132	22.27	21.22	0.132
	Subtest4	836.6	4183	22.27	21.22	0.132
		846.6	4233	22.26	21.21	0.132
		826.4	4132	22.25	21.20	0.132
HSUPA	Subtest1	826.4	4132	22.70	21.65	0.146
		836.6	4183	22.74	21.69	0.148
		846.6	4233	22.75	21.70	0.148
	Subtest2	826.4	4132	22.75	21.70	0.148
		836.6	4183	22.77	21.72	0.149
		846.6	4233	22.78	21.73	0.149
	Subtest3	826.4	4132	22.19	21.14	0.130
		836.6	4183	22.25	21.20	0.132
		846.6	4233	22.26	21.21	0.132
	Subtest4	826.4	4132	22.76	21.71	0.148
		836.6	4183	22.75	21.70	0.148
		846.6	4233	22.77	21.72	0.149
	Subtest5	826.4	4132	22.18	21.13	0.130
		836.6	4183	22.25	21.20	0.132
		846.6	4233	22.24	21.19	0.132

HSPA+	QPSK	826.4	4132	22.71	21.66	0.147
		836.6	4183	22.75	21.70	0.148
		846.6	4233	22.74	21.69	0.148
	16QAM	826.4	4132	22.70	21.65	0.146
		836.6	4183	22.75	21.70	0.148
		846.6	4233	22.75	21.70	0.148
DC-HSDPA	Subtest1	826.4	4132	22.78	21.73	0.149
		836.6	4183	22.76	21.71	0.148
		846.6	4233	22.79	21.74	0.149
	Subtest2	826.4	4132	22.76	21.71	0.148
		836.6	4183	22.76	21.71	0.148
		846.6	4233	22.79	21.74	0.149
	Subtest3	826.4	4132	22.26	21.21	0.132
		836.6	4183	22.27	21.22	0.132
		846.6	4233	22.27	21.22	0.132
	Subtest4	826.4	4132	22.24	21.19	0.132
		836.6	4183	22.27	21.22	0.132
		846.6	4233	22.26	21.21	0.132

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Spurious Emissions

WCDMA band II

Test result:

WCDMA Mode:

Channel 9262

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2453.54	-52.33	-13	Vertical
2779.59	-51.78	-13	Vertical
3729.39	-44.28	-13	Vertical
6676.16	-43.68	-13	Vertical
9964.51	-40.37	-13	Vertical
17823.24	-35.70	-13	Vertical

Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2456.11	-52.26	-13	Vertical
2778.44	-51.81	-13	Vertical
3728.24	-43.63	-13	Vertical
6678.38	-42.97	-13	Vertical
9961.42	-39.86	-13	Vertical
17821.28	-36.16	-13	Vertical

Channel 9538

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2452.91	-52.24	-13	Vertical
2781.10	-51.95	-13	Vertical
3730.04	-43.97	-13	Vertical
6679.67	-43.50	-13	Vertical
9963.40	-39.72	-13	Vertical
17821.76	-35.43	-13	Vertical

HSDPA/HSUPA Mode:
Channel 9262

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2452.97	-52.79	-13	Vertical
2781.70	-52.05	-13	Vertical
3728.55	-43.84	-13	Vertical
6677.03	-43.09	-13	Vertical
9964.11	-39.61	-13	Vertical
17822.46	-35.71	-13	Vertical

Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2455.96	-53.20	-13	Vertical
2780.82	-51.73	-13	Vertical
3729.86	-43.37	-13	Vertical
6679.14	-43.91	-13	Vertical
9961.82	-39.69	-13	Vertical
17821.29	-35.25	-13	Vertical

Channel 9538

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2455.21	-53.06	-13	Vertical
2781.15	-51.49	-13	Vertical
3729.08	-43.40	-13	Vertical
6679.91	-43.88	-13	Vertical
9961.34	-40.31	-13	Vertical
17820.71	-36.01	-13	Vertical

WCDMA band IV

Test result:

WCDMA Mode:

Channel 1312

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2456.18	-52.29	-13	Vertical
2778.12	-51.59	-13	Vertical
3729.98	-43.44	-13	Vertical
6677.72	-43.78	-13	Vertical
9965.13	-40.31	-13	Vertical
17822.63	-35.25	-13	Vertical

Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2455.65	-52.97	-13	Vertical
2780.16	-51.41	-13	Vertical
3728.47	-43.85	-13	Vertical
6678.90	-43.56	-13	Vertical
9965.13	-39.53	-13	Vertical
17822.75	-35.76	-13	Vertical

Channel 1513

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2454.33	-52.96	-13	Vertical
2781.91	-51.42	-13	Vertical
3730.64	-43.46	-13	Vertical
6677.41	-43.83	-13	Horizontal
9962.59	-40.22	-13	Vertical
17821.02	-36.12	-13	Vertical

HSDPA/HSUPA Mode:
Channel 1312

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2456.16	-52.79	-13	Vertical
2781.25	-51.96	-13	Vertical
3727.74	-43.36	-13	Vertical
6677.40	-43.36	-13	Vertical
9963.06	-39.75	-13	Vertical
17824.32	-35.71	-13	Vertical

Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2453.24	-53.02	-13	Vertical
2781.53	-51.87	-13	Vertical
3727.17	-43.85	-13	Vertical
6679.39	-43.92	-13	Vertical
9961.79	-40.28	-13	Vertical
17822.99	-35.54	-13	Vertical

Channel 1513

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2453.97	-52.49	-13	Vertical
2778.67	-51.53	-13	Vertical
3727.93	-43.88	-13	Vertical
6677.64	-43.51	-13	Vertical
9963.71	-39.89	-13	Vertical
17822.32	-35.24	-13	Horizontal

WCDMA band V

Test result:

WCDMA Mode:

Channel 4132

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1650.31	-52.62	-13	Vertical
1664.49	-51.55	-13	Vertical
2532.33	-43.30	-13	Vertical
2576.41	-42.71	-13	Vertical
8963.85	-39.20	-13	Horizontal
9967.84	-35.50	-13	Vertical

Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.54	-52.60	-13	Horizontal
1664.76	-51.79	-13	Vertical
2535.26	-43.50	-13	Vertical
2575.67	-43.35	-13	Vertical
8963.30	-40.00	-13	Vertical
9969.81	-35.43	-13	Vertical

Channel 4233

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.77	-52.31	-13	Vertical
1665.01	-51.69	-13	Horizontal
2532.17	-43.21	-13	Vertical
2574.02	-43.38	-13	Vertical
8965.50	-39.92	-13	Vertical
9967.61	-35.42	-13	Vertical

HSDPA/HSUPA Mode:
Channel 4132

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.51	-52.68	-13	Vertical
1666.56	-51.89	-13	Vertical
2534.35	-44.02	-13	Vertical
2575.59	-42.79	-13	Vertical
8965.41	-39.86	-13	Horizontal
9967.71	-35.16	-13	Vertical

Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.22	-52.86	-13	Vertical
1666.77	-51.97	-13	Vertical
2534.67	-43.91	-13	Vertical
2574.78	-43.22	-13	Vertical
8962.63	-39.44	-13	Vertical
9968.28	-35.35	-13	Horizontal

Channel 4233

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.82	-51.97	-13	Vertical
1667.99	-51.62	-13	Vertical
2534.14	-43.24	-13	Vertical
2576.28	-42.75	-13	Horizontal
8963.70	-40.10	-13	Vertical
9968.81	-35.57	-13	Vertical

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