



TEST REPORT

No. 2010TAR467

for

ZTE CORPORATION

T-Mobile 4G Mobile Hotspot

Model Name: MF61

FCC ID: Q78-ZTEMF61

with

Hardware Version: di3C

Software Version: BD_MF61V1.0.0B04

Issued Date: Dec 10, 2010

Note:

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

Test Laboratory:

DAR accreditation (DIN EN ISO/IEC 17025): No. DGA-PL-114/01-02

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629A-1

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1. Test Laboratory

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: 3/F Shou Xiang Technology Building, No.51 Xueyuan Road, Hai
Dian District, Beijing, P. R. China
Postal Code: 100191
Telephone: 00861062304633
Fax: 00861062304793

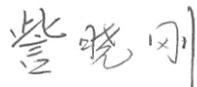
1.2. Testing Environment

Normal Temperature: 15-35°C
Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: Nov 22, 2010
Testing End Date: Dec 10, 2010

1.4. Signature



Zi Xiaogang
(Prepared this test report)



Sun Xiangqian
(Reviewed this test report)



Lu Bingsong
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: ZTE CORPORATION
Address /Post: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan
District, Shenzhen, Guangdong, 518057, P.R.China
City: Shenzhen
Postal Code: 518057
Country: China
Telephone: 0086 21 68895196
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2.2. Manufacturer Information

Company Name: ZTE CORPORATION
Address /Post: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan
District, Shenzhen, Guangdong, 518057, P.R.China
City: Shenzhen
Postal Code: 518057
Country: China
Telephone: 0086 21 68895196
Fax: 0086 21 61460600

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

3.1. About EUT

Description	T-Mobile 4G Mobile Hotspot
Model Name	MF61
FCC ID	Q78-ZTEMF61
Frequency	PCS1900MHz; WCDMA BAND IV
Antenna	Internal
Power supply	Battery or Charger (AC Adaptor)
Output power	22.13 dBm maximum EIRP measured for WCDMA BAND IV
Extreme vol. Limits	4.8VDC to 5.2VDC (nominal: 5.0VDC)

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

3.2. Internal Identification of EUT used during the test

EUT ID*	HW Version	SW Version
N09	di3C	BD_MF61V1.0.0B04
N10	di3C	BD_MF61V1.0.0B04

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

3.3. General Description

The Equipment Under Test (EUT) is a model of Wireless Modem and Router with integrated antenna. Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

4. Reference Documents

4.1. Reference Documents for testing

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

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	V 10.1.09
FCC Part 22	PUBLIC MOBILE SERVICES	V 10.1.09
ANSI/TIA-603-C	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2004
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2003

5. LABORATORY ENVIRONMENT

Semi-anechoic chamber (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber (6.8 meters×3.08 meters×3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

6. SUMMARY OF TEST RESULTS

Items	List	Clause in FCC rules	Verdict
1	Output Power	22.913(a)/24.232(b)	P
2	Emission Limit	2.1051/22.917/24.238	P
3	Frequency Stability	2.1055/24.235	P
4	Occupied Bandwidth	2.1049(h)(i)	P
5	Emission Bandwidth	22.917(b)/24.238(b)	P
6	Band Edge Compliance	22.917(b)/24.238(b)	P
7	Conducted Spurious Emission	2.1057/22.917/24.238	P

7. Test Equipments Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL DUE DATE
1	Test Receiver	ESS	847151/015	R&S	2011-12-2
2	Test Receiver	ESI40	831564/002	R&S	2011-12-2
3	BiLog Antenna	3142B	9908-1403	EMCO	2011-12-2
4	BiLog Antenna	3142B	9908-1405	EMCO	2011-12-2
5	Signal Generator	SMT06	831285/005	R&S	2011-12-2
6	Signal Generator	SMP04	100070	R&S	2011-12-2
7	LISN	ESH2-Z5	829991/012	R&S	2011-12-2
8	Spectrum Analyzer	FSU26	200030	R&S	2011-12-2
9	Universal Radio Communication Tester	CMU200	100680	R&S	2011-12-2
10	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2011-12-2
11	Dual-Ridge Waveguide Horn Antenna	3115	9906-5831	EMCO	2011-12-2
12	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO	2011-12-2
13	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2011-12-2
14	Climatic chamber	PL-2G	343074	ESPEC	2011-12-2

ANNEX A: MEASUREMENT RESULTS

A.1 OUTPUT POWER (§22.913(a)/§24.232(b))

A.1.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMU-200) to ensure max power transmission and proper modulation.

This result contains peak output power and EIRP measurements for the EUT.

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

A.1.2 Conducted

A.1.2.1 Method of Measurements

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

The power was measured with Rhode & Schwarz Spectrum Analyzer FSU (RMS)

These measurements were done at 3 frequencies, 1712.4MHz, 1740.0MHz and 1752.6MHz for WCDMA Band IV. (bottom, middle and top of operational frequency range).

Limit

According to FCC § 2.1046.

WCDMA Band IV

Measurement result

WCDMA (Band IV)	CH	Frequency(MHz)	Peak output power(dBm)	Target (dB)
	1312	1712.4	22.06	21±2
	1450	1740	22.06	21±2
	1513	1752.6	22.18	21±2

A.1.3 Radiated

A.1.3.1 Description

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

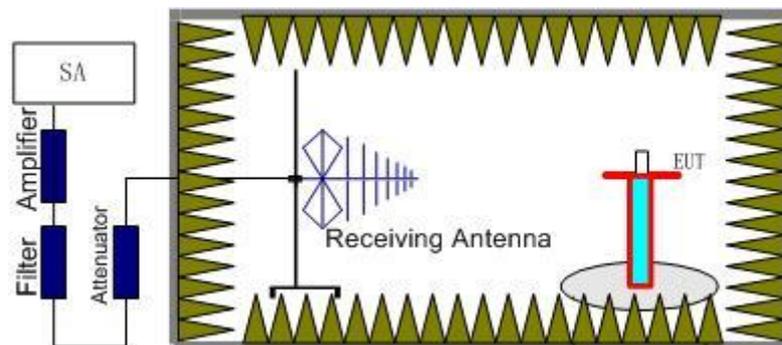
Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Rule Part 22.913(a) specifies "Maximum ERP. The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

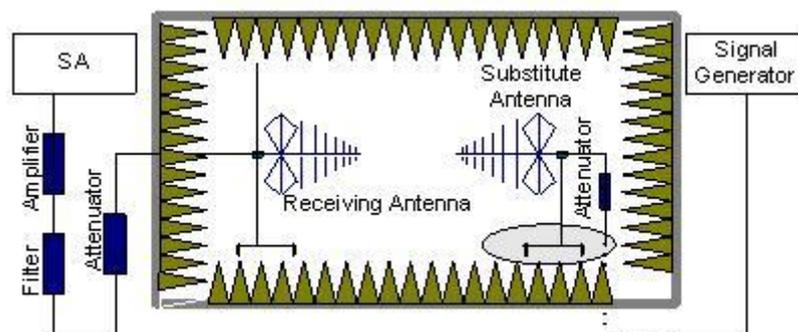
A.1.3.2 Method of Measurement

The measurements procedures in TIA-603C-2004 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



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



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

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

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

The measurement results are obtained as described below:

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

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

WCDMA Band IV-EIRP

Limits

	Burst Peak EIRP (dBm)
WCDMA Band IV	33dBm (2W)

Measurement result

Frequency(MHz)	Peak ERP(dBm)	P _{cl} Cable Loss(dB)	G _a Antenna Gain(dB)	P _{Mea} (dBm)	Polarization
1712.4	22.13	-10.9	27.5	5.53	Horizontal
1740	21.96	-10.8	27.5	5.26	Horizontal
1752.6	21.88	-10.8	27.5	5.18	Horizontal

Frequency: 1712.4MHz

Peak EIRP(dBm)= P_{Mea}(-5.53dBm)+ P_{cl}(-10.9dB)+G_a (27.5dB) =22.13dBm

ANALYZER SETTINGS: RBW = VBW = 3MHz

A.2 EMISSION LIMIT (§2.1051/§24.238)

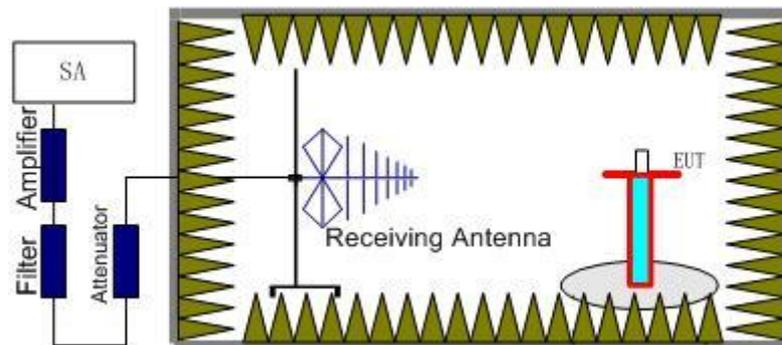
A.2.1 Measurement Method

The measurements procedures in TIA-603C-2004 are used.

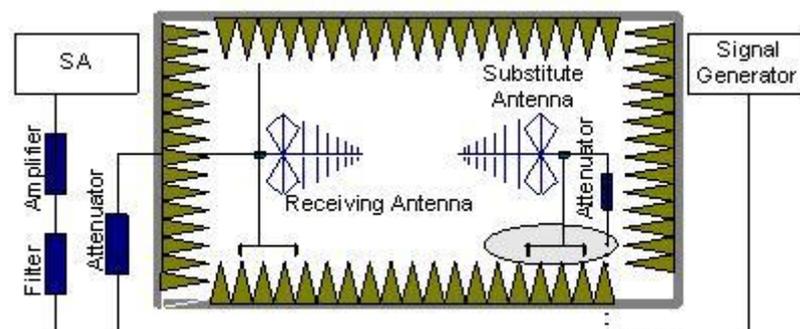
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set 1MHz as outlined in Part 24.238. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the WCDMA Band II ,WCDMA Band V .

The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



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



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the

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

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

The measurement results are obtained as described below:

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

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

A.2.2 Measurement Limit

Sec. 24.238 Emission Limits.

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P , in Watts) by at least $43+10\log(P)$ dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the WCDMA Band IV (1712.4 MHz, 1740.0MHz and 1752.6MHz).. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the WCDMA Band IV into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

A.2.4 Sweep Table

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

WCDMA BAND IV Mode Channel 1312/1712.4MHz

Frequency(MHz)	Peak ERP(dBm)	Cable Loss	Antenna Gain	P _{Mea} (dBm)	Limit (dBm)	Polarization
2000.9	-44.11	-41.2	27.5	-30.41	-13	Vertical
2113.1	-32.17	-41.8	27.5	-17.87	-13	Horizontal
8057.3	-43.86	-44.5	37.5	-36.86	-13	Horizontal
8556.5	-39.02	-45.1	38.3	-32.22	-13	Horizontal
9853.1	-42.42	-46.2	38.7	-34.92	-13	Vertical
15220.8	-34.28	-49.6	39.4	-24.08	-13	Horizontal

WCDMA BAND IV Mode Channel 1450/1740MHz

Frequency(MHz)	Peak ERP(dBm)	Cable Loss	Antenna Gain	P _{Mea} (dBm)	Limit (dBm)	Polarization
2000.6	-43.73	-41.2	27.5	-30.03	-13	Vertical
2140.3	-32.53	-41.6	27.5	-18.43	-13	Horizontal
6955.7	-43.26	-43.7	35.7	-35.26	-13	Vertical
8697.8	-35.9	-45.1	38.3	-29.1	-13	Horizontal
15201.2	-35.39	-49.3	39.4	-25.49	-13	Vertical
17510.4	-29.19	-50.8	44.7	-23.09	-13	Vertical

WCDMA BAND IV Mode Channel 1513/1752.6MHz

Frequency(MHz)	Peak ERP(dBm)	Cable Loss	Antenna Gain	P _{Mea} (dBm)	Limit (dBm)	Polarization
2000.9	-44.07	-41.2	27.5	-30.37	-13	Horizontal
2153.1	-32.14	-41.7	27.5	-17.94	-13	Horizontal
8057.3	-43.84	-44.5	37.5	-36.84	-13	Horizontal
8763.8	-37.9	-45.1	38.3	-31.1	-13	Horizontal
12327.2	-39.71	-46.7	39.5	-32.51	-13	Vertical
15725.2	-35.54	-50.3	38.2	-23.44	-13	Vertical

A.3 FREQUENCY STABILITY (\$2.1055/\$24.235)

A.3.1 Method of Measurement

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

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 1450 for WCDMA Band IV measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 C increments from +50°C to -30°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

A.3.2 Measurement Limit

A.3.2.1 For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 4.8VDC and 5.2VDC, with a nominal voltage of 5VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

A.3.2.2 For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the

fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

A.3.3 Measurement results

WCDMA Band IV

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
4.8	-16	0.009
5.0	-12	0.007
5.2	-18	0.010

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-20	0.011
-20	-20	0.011
-10	-16	0.009
0	-16	0.009
10	-12	0.007
20	-12	0.007
30	-12	0.007
40	-20	0.011
50	-22	0.013

A.4 OCCUPIED BANDWIDTH (§2.1049(h)(i))

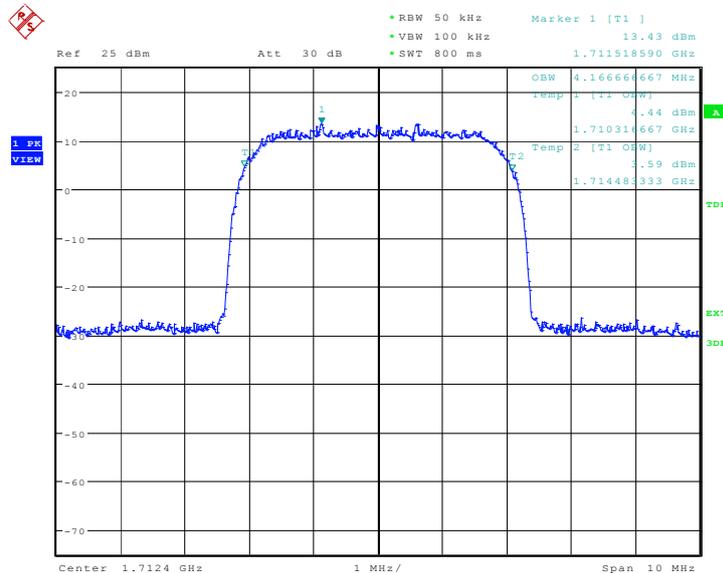
A.4.1 Occupied Bandwidth Results

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the USPCS frequency band. The table below lists the measured -20dBc BW (99%). Spectrum analyzer plots are included on the following pages.

WCDMA Band IV(99%)

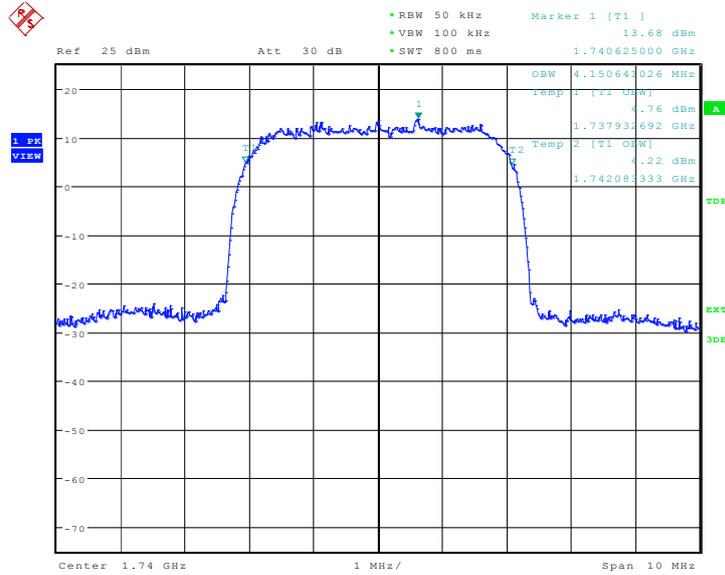
Frequency(MHz)	Occupied Bandwidth (99%)(MHz)
1712.4	4.167
1740	4.151
1752.6	4.167

Channel 1312-Occupied Bandwidth (99%)



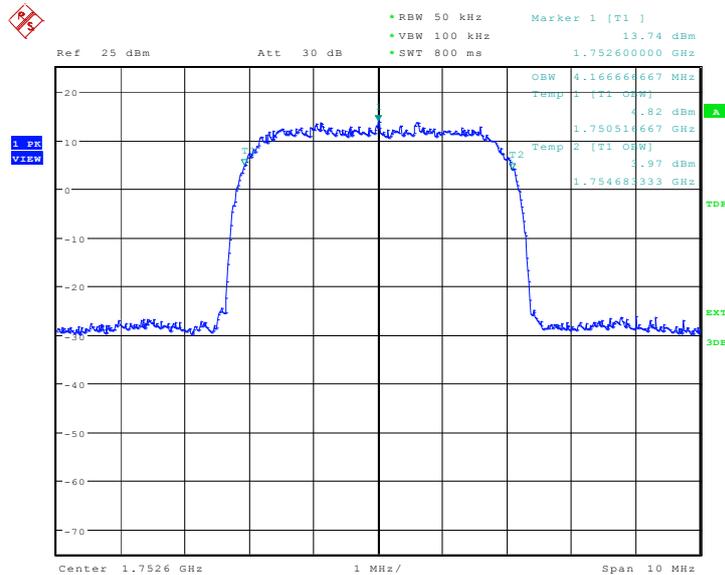
Date: 6.DEC.2010 06:12:57

Channel 1450-Occupied Bandwidth (99%)



Date: 6.DEC.2010 06:13:27

Channel 1513-Occupied Bandwidth (99%)



Date: 6.DEC.2010 06:13:56

A.5 EMISSION BANDWIDTH (§22.917(b)/§24.238(b))

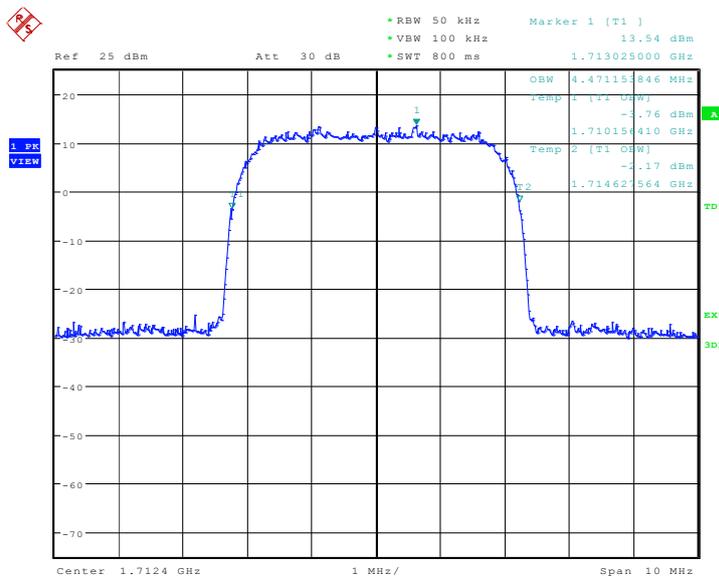
A.5.1 Emission Bandwidth Results

Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the WCDMA Band IV. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

WCDMA Band IV(-26dBc)

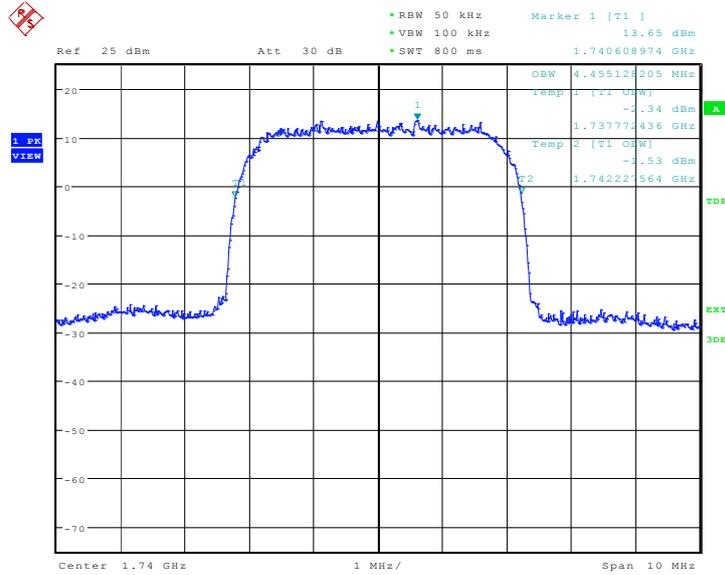
Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(MHz)
1712.4	4.471
1740	4.455
1752.6	4.471

Channel 1312-Occupied Bandwidth (-26dBc BW)



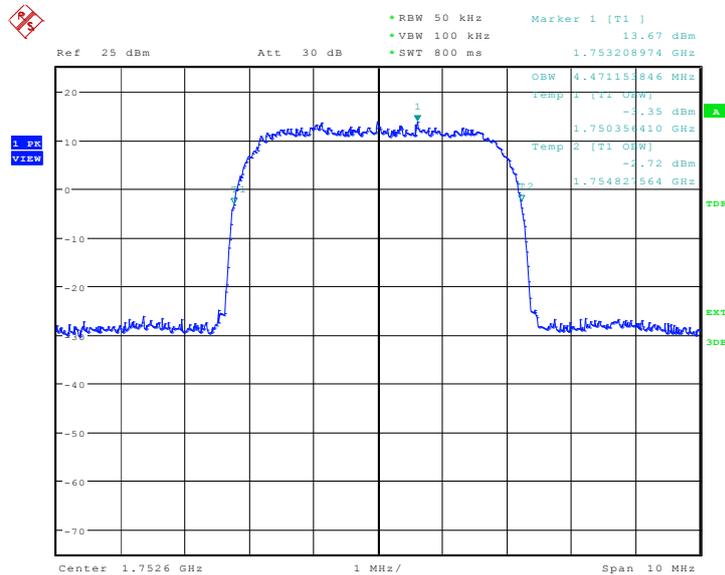
Date: 6.DEC.2010 06:14:27

Channel 1450-Occupied Bandwidth (-26dBc BW)



Date: 6.DEC.2010 06:14:57

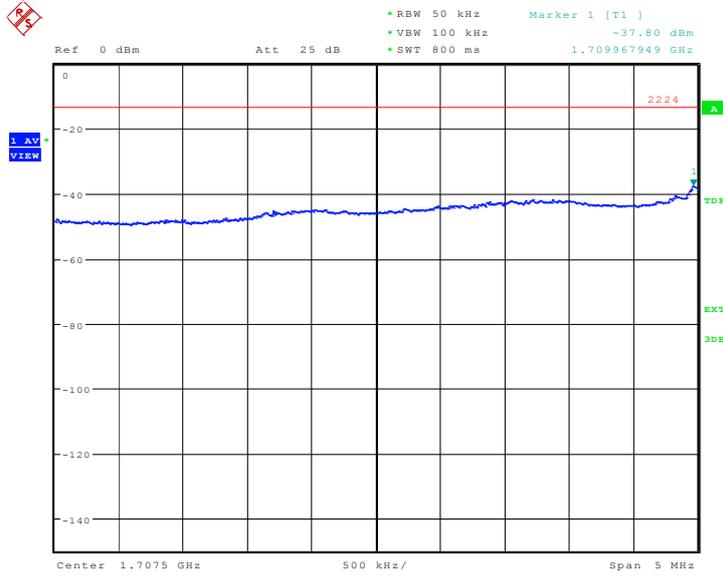
Channel 1513-Occupied Bandwidth (-26dBc BW)



Date: 6.DEC.2010 06:15:26

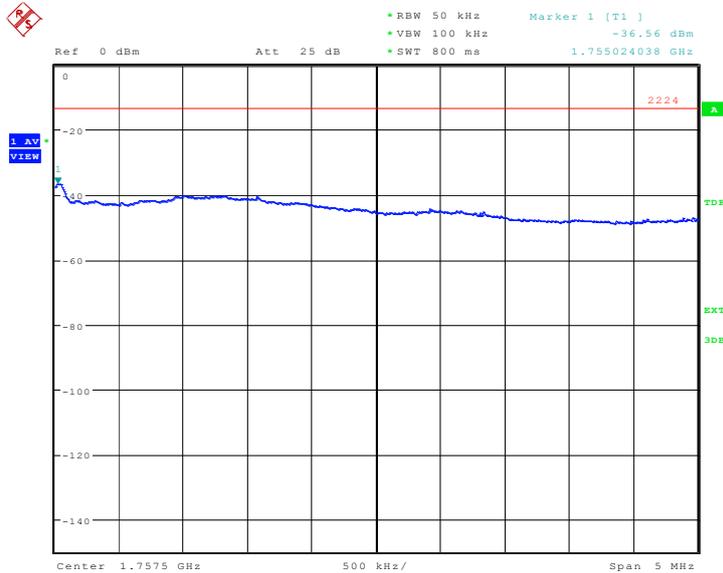
A.6 BAND EDGE COMPLIANCE (§22.917(b)/§24.238(b))

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



Date: 6.DEC.2010 06:15:58

HIGH BAND EDGE BLOCK-C (WCDMA Band IV) –Channel 1513



Date: 6.DEC.2010 06:16:29

A.7 CONDUCTED SPURIOUS EMISSION (§2.1057/§22.917/§24.238)

A.7.1 Measurement Method

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

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

WCDMA Band IV Transmitter

Channel	Frequency (MHz)
1312	1712.40
1450	1740.00
1513	1752.60

A. 7.2 Measurement Limit

Sec. 24.238 Emission Limits.

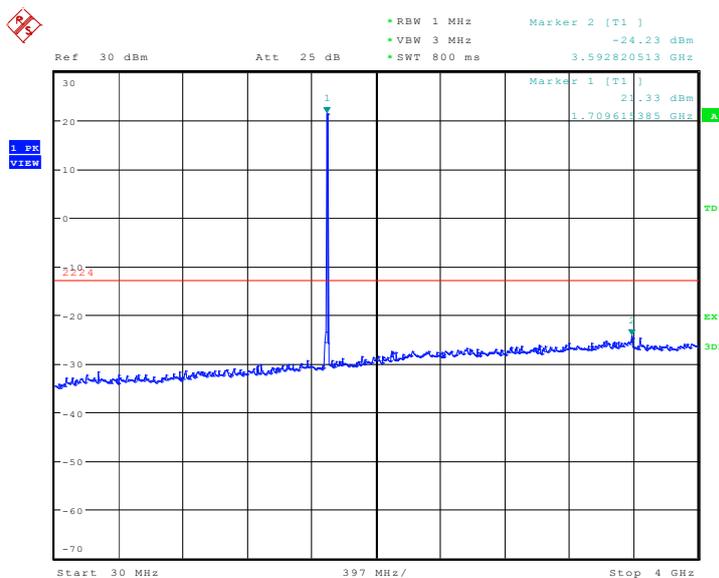
(a) On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

A.7.3 Measurement result

A. 7.3.1 Channel 1312: 30MHz –4GHz

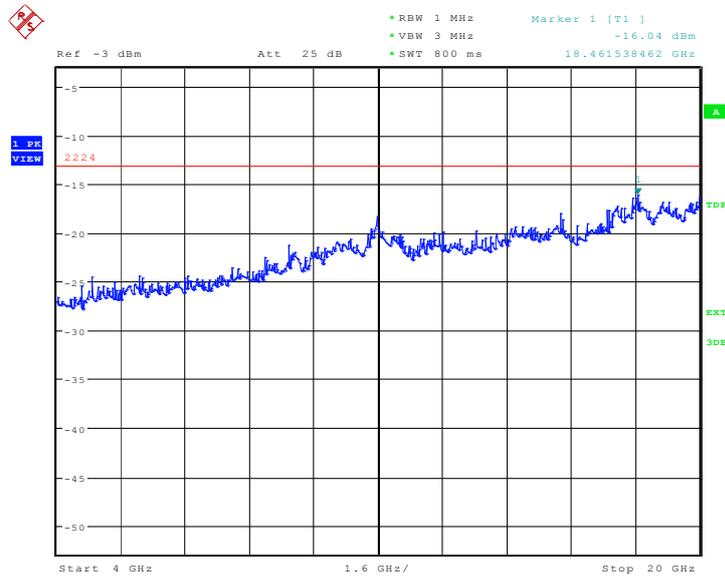
Spurious emission limit –13dBm.

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



A.7.3.2 Channel 1312: 4GHz –20GHz

Spurious emission limit –13dBm.

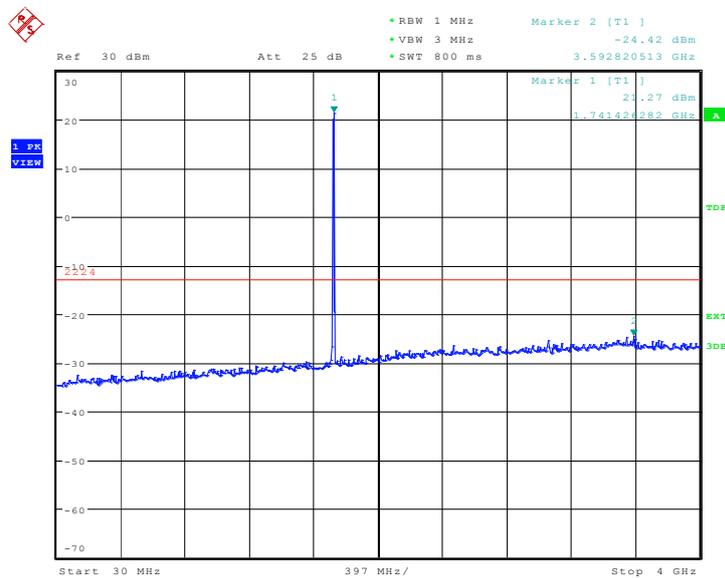


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A. 7.3.3 Channel 1450: 30MHz – 4GHz

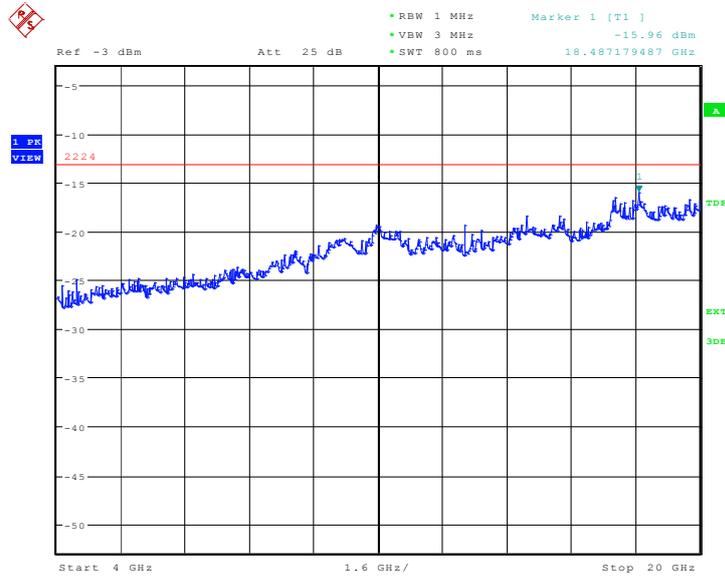
Spurious emission limit –13dBm.

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



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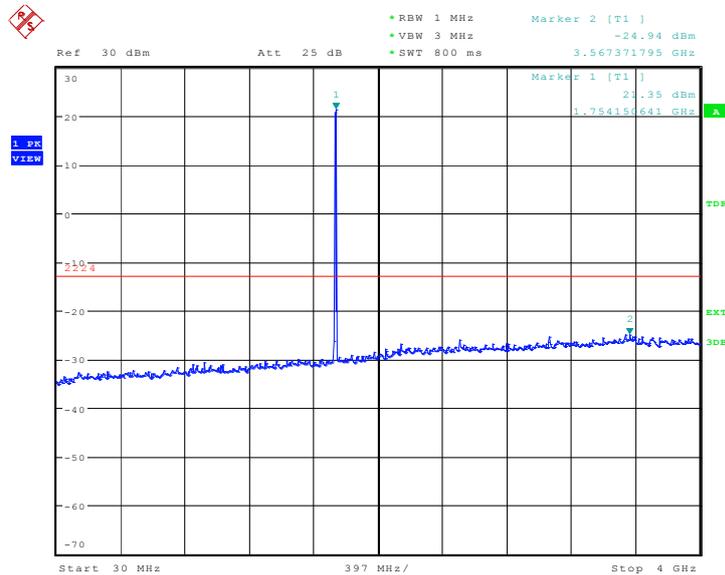
A. 7.3.4 Channel 1450: 4GHz – 20GHz
Spurious emission limit –13dBm.



Date: 6.DEC.2010 06:18:28

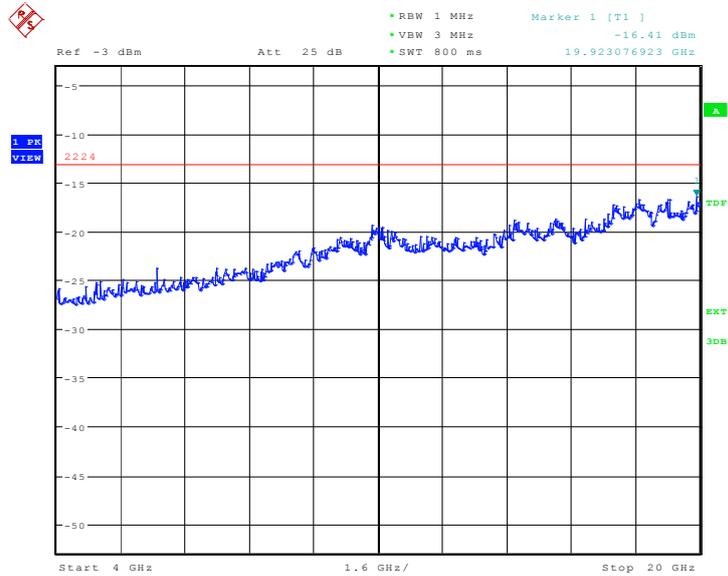
A. 7.3.5 Channel 1513: 30MHz – 4GHz
Spurious emission limit –13dBm.

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



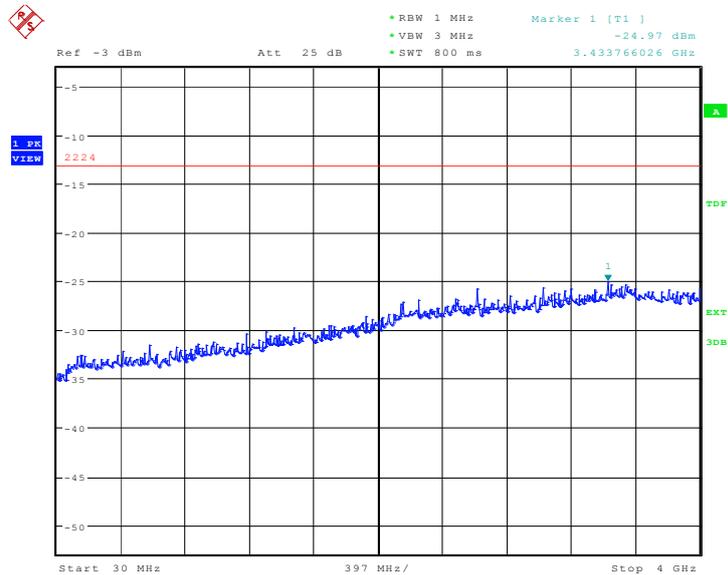
Date: 6.DEC.2010 06:18:59

A. 7.3.6 Channel 1513: 4GHz – 20GHz
Spurious emission limit –13dBm.



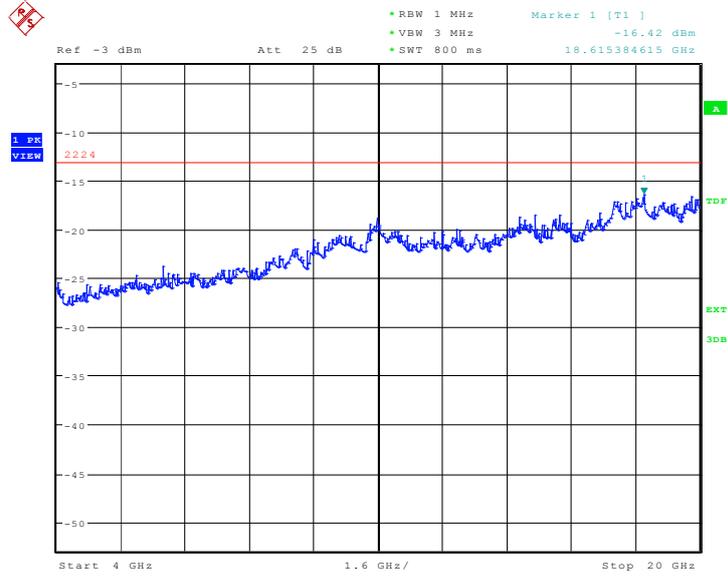
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A.7.3.7 Idle mode: 30MHz – 4GHz
Spurious emission limit -13dBm.



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A. 7.3.8 Idle mode: 4GHz – 20GHz
Spurious emission limit -13dBm.



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END OF REPORT