

FCC TEST REPORT FCC 47 CFR Part 27 MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES Industry Canada RSS-130, Issue 1 Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands 698-756 MHz and 777-787 MHz Industry Canada RSS-139, Issue 3 Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz															
Report Reference No. : G0M-1601-5302-TFC227UL-V02															
Testing Laboratory : Eurofins Product Service GmbH Address : Storkower Str. 38c 15526 Reichenwalde Germany Accreditation :     A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 DAkkS - Registration number : D-PL-12092-01-02 IC OATS Filing assigned code: 3470A															
Applicant's name : lesswire GmbH Address : Rudower Chaussee 30 12489 Berlin GERMANY															
Test specification: Standard : 47 CFR Part 27 RSS-130, Issue 1 : 2013-10, RSS-139, Issue 3 : 2015-07 RSS-Gen, Issue 4, 2014-11, ANSI/TIA-603-D-2010 KDB 971168															
Equipment under test (EUT): <table border="0"> <tr> <td>Product description</td> <td>WLAN-LTE-Router</td> </tr> <tr> <td>Model No.</td> <td>CCU5</td> </tr> <tr> <td>Additional Model(s)</td> <td>None</td> </tr> <tr> <td>Brand Name(s)</td> <td>None</td> </tr> <tr> <td>Hardware version</td> <td>C/BWIA3</td> </tr> <tr> <td>Firmware / Software version</td> <td>1.0.119</td> </tr> <tr> <td></td> <td>FCC-ID: 2AHHACCU5 IC: N/A</td> </tr> </table>		Product description	WLAN-LTE-Router	Model No.	CCU5	Additional Model(s)	None	Brand Name(s)	None	Hardware version	C/BWIA3	Firmware / Software version	1.0.119		FCC-ID: 2AHHACCU5 IC: N/A
Product description	WLAN-LTE-Router														
Model No.	CCU5														
Additional Model(s)	None														
Brand Name(s)	None														
Hardware version	C/BWIA3														
Firmware / Software version	1.0.119														
	FCC-ID: 2AHHACCU5 IC: N/A														
Test result : Passed															

Test Report No.: G0M-1601-5302-TFC227UL-V02

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Possible test case verdicts:

- neither assessed nor tested : N/N
- required by standard but not appl. to test object : N/A
- required by standard but not tested : N/T
- not required by standard for the test object : N/R
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)

Testing:

Test Lab Temperature : 20 – 23 °C

Test Lab Humidity : 32 – 38 %

Date of receipt of test item : 2016-01-06

Date (s) of performance of tests : 2016-02-12 - 2016-02-26

Compiled by : Christian Weber

Tested by (+ signature) : Burkhard Pudell
(Responsible for Test)

Approved by (+ signature) : Christian Weber
(Head of Lab)

Date of issue : 2016-03-24

Total number of pages : 77



General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional comments:

Test case selection is based on full modular approval of licensed transmitter module used by the EUT. The EUT uses a 2G/3G/4G module with full modular approval according to FCC and IC rules. For details about the radio module see EUT description in section 1.

Version History

Version	Issue Date	Remarks	Revised by
01	2016-03-10	Initial Release	
02	2016-03-24	Hard- and Software Version corrected	C. Weber

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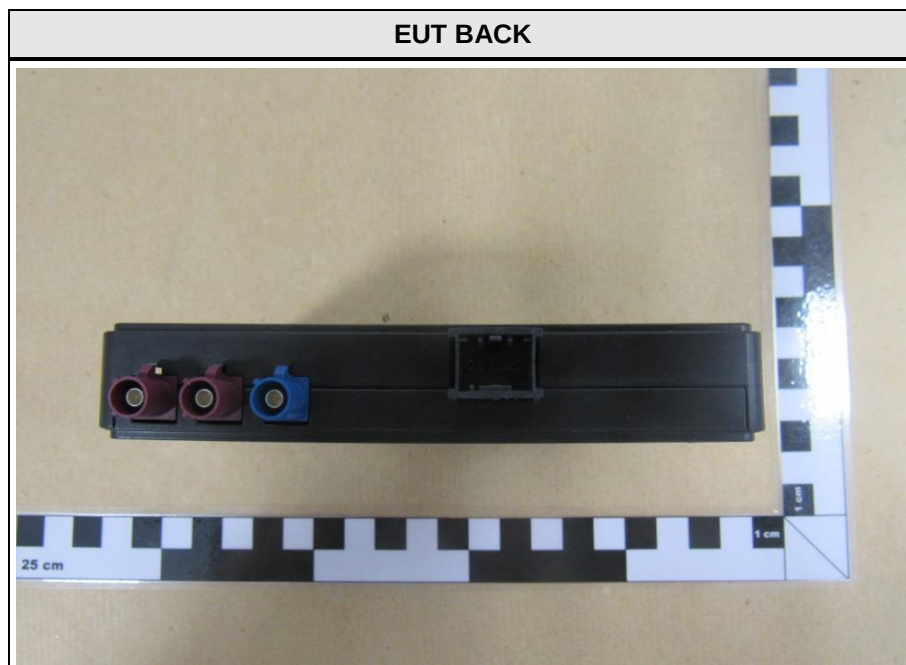
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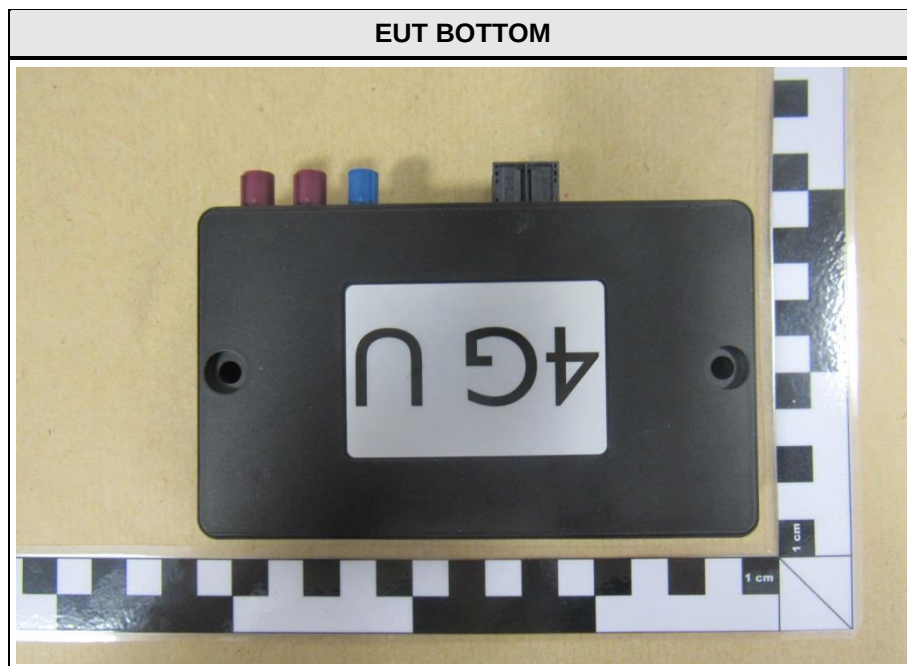
1 Equipment (Test item) Description

Description	WLAN-LTE-Router		
Model	CCU5		
Additional Model(s)	None		
Brand Name(s)	None		
Serial number	None		
Hardware version	C/BWIA3		
Software / Firmware version	1.0.119		
FCC-ID	2AHHACCU5		
IC	N/A		
Equipment type	End product		
Equipment classification	Mobile Device (Human Body distance > 20 cm)		
Radio type	Transceiver		
Radio technology	W-CDMA / LTE		
Operating frequency range	LTE 13 : TX = 777 - 787 MHz, RX = 746 - 756 MHz FDD IV : TX = 1710 - 1755 MHz, RX = 2110 - 2155 MHz LTE 4 : TX = 1710 - 1755 MHz, RX = 2110 - 2155 MHz		
Assigned frequency band	FCC: 776 - 787 MHz ISED: 777 - 787MHz FCC/ISED: 1710 - 1755 MHz		
Main test frequencies LTE FDD 13	F _{LOW}	CH : 23205 UL: 779.5 MHz	CH : 5205 DL: 748.5 MHz
	F _{MID}	CH : 23230 UL: 782.0 MHz	CH : 5230 DL: 751.0 MHz
	F _{HIGH}	CH : 23255 UL: 784.5 MHz	CH : 5255 DL: 753.5 MHz
Main test frequencies LTE FDD 4	F _{LOW}	CH : 19957 UL: 1710.0 MHz	CH : 1950 DL: 2110.0 MHz
	F _{MID}	CH : 20175 UL: 1732.5 MHz	CH : 2175 DL: 2132.5 MHz
	F _{HIGH}	CH : 20393 UL: 1754.3 MHz	CH : 2393 DL: 2154.3 MHz
Main test frequencies UMTS FDD IV	F _{LOW}	CH : 1312 UL: 1712.4 MHz	CH : 1537 DL: 2112.4 MHz
	F _{MID}	CH : 1413 UL: 1732.6 MHz	CH : 1638 DL: 2132.6 MHz
	F _{HIGH}	CH : 1513 UL: 1752.6 MHz	CH : 1738 DL: 2152.6 MHz
Supported transmission modes	Circuit switched, Packet switched		
Modulations	HSDPA : QPSK, 16-QAM; HSUPA : BPSK LTE : QPSK, 16-QAM, 64-QAM		
Number of antennas	1x TX, 2x RX		

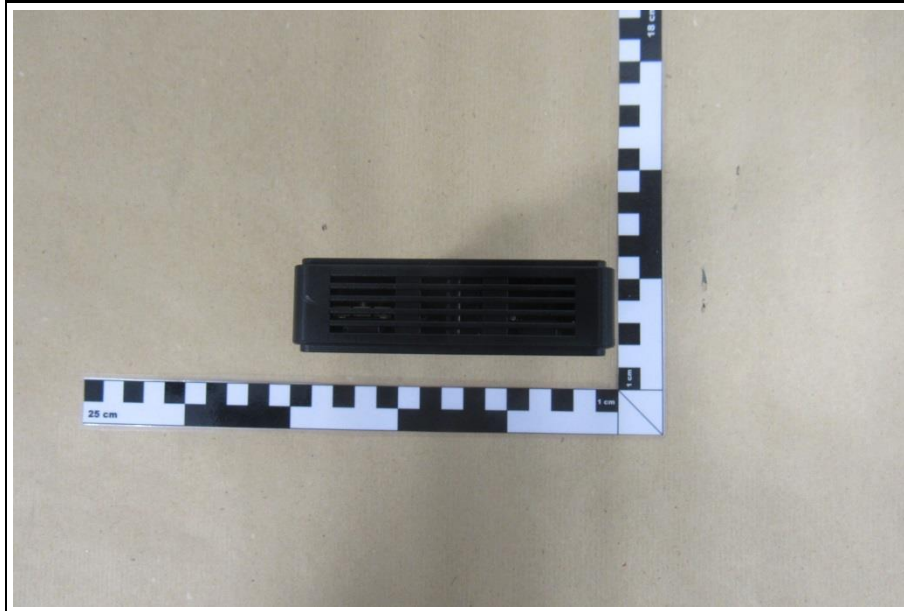
Radio module	Type	GSM/3G module
	Model	ME909Tu-565
	Manufacturer	Huawei
	HW Version	P/N:55010129
	SW Version	00.02.08_US
	FCC-ID	QISME909TU-565
	IC	N/A
Antenna 1	Type	external dedicated
	Model	AN00899758
	Manufacturer	Techship
	Gain	2.14 dBi
Antenna 2	Type	external dedicated
	Model	AN00899758
	Manufacturer	Techship
	Gain	2.14 dBi
Manufacturer	lesswire GmbH Rudower Chaussee 30 12489 Berlin GERMANY	
Power supply	V _{NOM}	12 or 24 VDC (Car Battery only)
	V _{MIN}	N/A
	V _{MIN}	N/A
AC/DC-Adaptor	Model	N/A
	Vendor	N/A
	Input	N/A
	Output	N/A

1.1 Photos – Equipment External

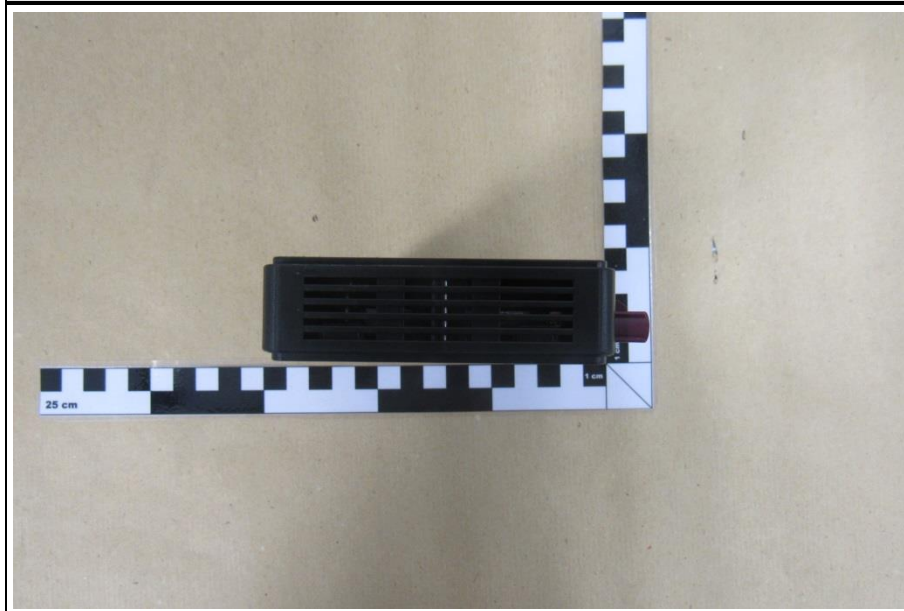




EUT LEFT

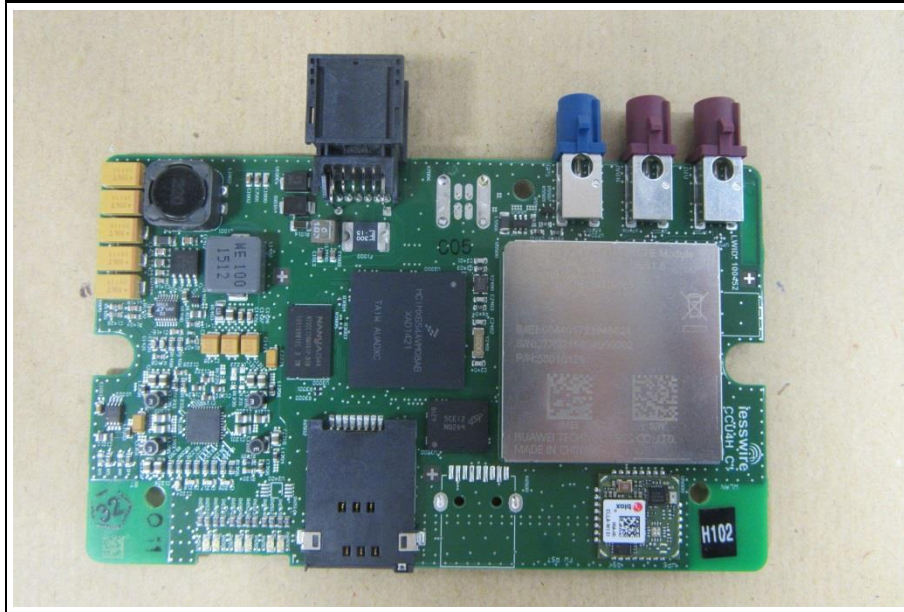


EUT RIGHT

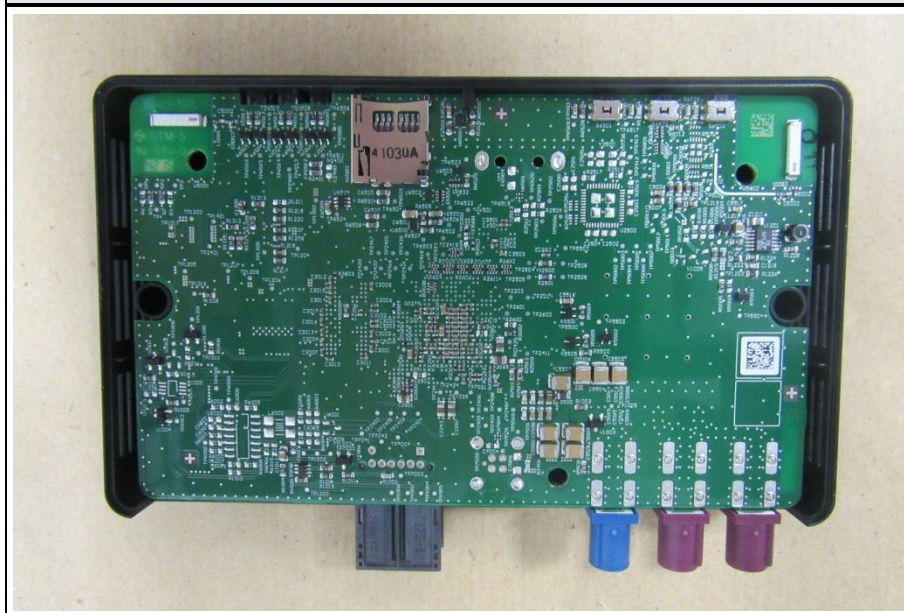


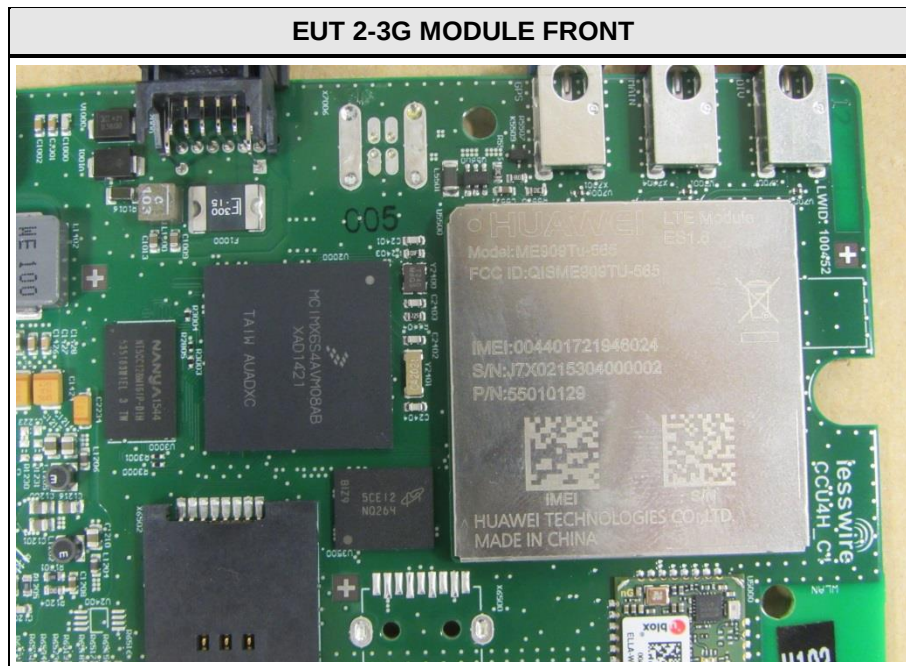
1.2 Photos – Equipment internal

EUT PCB FRONT

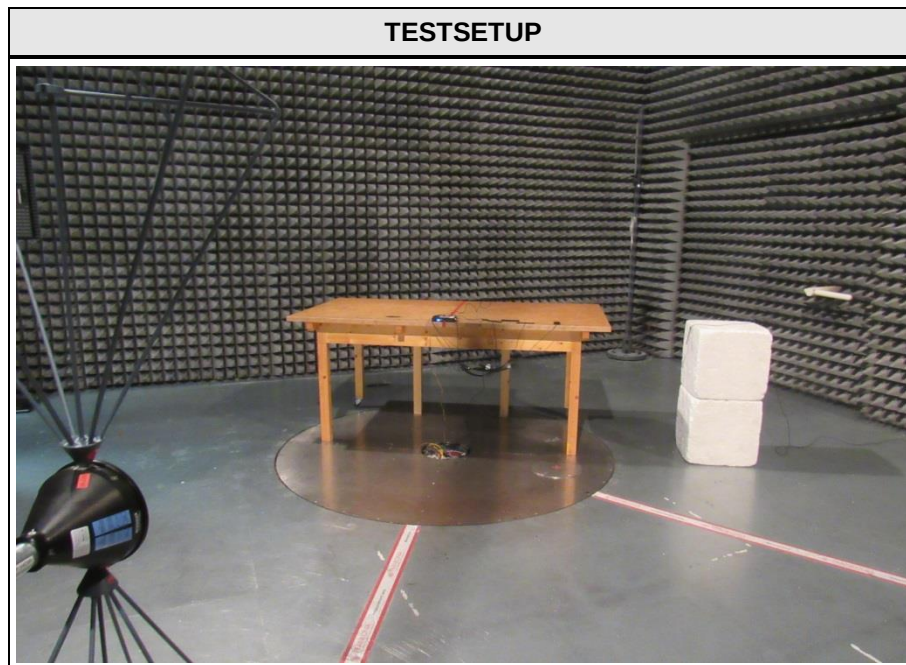


EUT PCB BACK





1.3 Photos – Test setup



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
SIM	Network	R&S	CMW500	UMTS / LTE -Tester
*Note: Use the following abbreviations: AE : Auxiliary/Associated Equipment, or SIM : Simulator (Not Subjected to Test) CABL : Connecting cables				

1.5 Test Modes

Mode #	Description	
WCDMA IV	General conditions:	EUT powered by battery. External GSM and external GPS antenna connected. Active call to communication tester.
	Radio conditions:	Mode = transmit Connection = Packet Switched Modulation = QPSK Configuration = RMC 12.2kbps + HSPA Power level = Maximum
LTE 4 QPSK	General conditions:	EUT powered by battery. External GSM and external GPS antenna connected. Active call to communication tester.
	Radio conditions:	Mode = transmit Modulation = QSPK Bandwidth = 20MHz RB allocation = RB : 100% Power level = Maximum
LTE 4 QAM	General conditions:	EUT powered by battery. External GSM and external GPS antenna connected. Active call to communication tester.
	Radio conditions:	Mode = transmit Modulation = 16-QAM Bandwidth = 20MHz RB allocation = RB : 100% Power level = Maximum
LTE 13 QPSK	General conditions:	EUT powered by battery. External GSM and GPS antenna connected. Active call to communication tester.
	Radio conditions:	Mode = transmit Modulation = QSPK Bandwidth = 10MHz RB allocation = RB : 100% Power level = Maximum
LTE 13 QAM	General conditions:	EUT powered by battery. External GSM and GPS antenna connected. Active call to communication tester.
	Radio conditions:	Mode = transmit Modulation = 16-QAM Bandwidth = 10MHz RB allocation = RB : 100% Power level = Maximum

WCDMA - RX	General conditions:	EUT powered by battery. External GSM and external GPS antenna connected.
	Radio conditions:	Mode = receive Connection = Sign. RAB Cell FACH
LTE 4 - RX	General conditions:	EUT powered by battery. External GSM and external GPS antenna connected.
	Radio conditions:	Mode = receive Connection = RMC Modulation = QPSK BW10 RB allocation = 0 up / 0 down
LTE 13 - RX	General conditions:	EUT powered by battery. External GSM and external GPS antenna connected.
	Radio conditions:	Mode = receive Connection = RMC Modulation = QPSK BW20 RB allocation = 0 up / 0 down

1.6 Test Equipment Used During Testing

Measurement Software			
Description	Manufacturer	Name	Version
EMC Test Software	Dare Instruments	Radimation	2014.1.15

Occupied Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Radiated power					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Fully-anechoic chamber	Frankonia	AC 3	EF00199	--	--
Spectrum Analyzer	R&S	FSIQ 26	EF00242	2015-04	2016-04
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00187	2014-03	2017-03
LPD Antenna	R&S	HL 025	EF00327	2015-10	2018-10

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	--	--
Spectrum Analyzer	R&S	FSEK 30	EF00168	2016-01	2017-01
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00212	2013-02	2016-02
LPD Antenna	R&S	HL 025	EF00327	2015-10	2018-10

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dBμV. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBμV/m). The FCC limits are given in units of μV/m. The following formula is used to convert the units of μV/m to dBμV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log (\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

$$\begin{array}{rclcl} \text{Reading} & + & \text{AF} & = & \text{Net Reading} & : & \text{Net reading - FCC limit} & = & \text{Margin} \\ 21.5 \text{ dB}\mu\text{V} & + & 26 \text{ dB} & = & 47.5 \text{ dB}\mu\text{V/m} & : & 47.5 \text{ dB}\mu\text{V/m} - 57.0 \text{ dB}\mu\text{V/m} & = & -9.5 \text{ dB} \end{array}$$

2 Result Summary

FCC 47 CFR Part 27, IC RSS-130, IC RSS-139				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
FCC § 2.1049 RSS-130 3.1 RSS-139 3.1 RSS-Gen 6.6	Occupied Bandwidth	RSS-Gen 6.6 KDB 971168		Informational only
FCC § 2.1055 FCC § 27.54 IC RSS-130 4.3 IC RSS-139 6.4	Frequency stability	FCC § 27.54 IC RSS-130 4.3 IC RSS-139 6.4	N/R	
FCC § 27.50 (b)(10)	Effective radiated power	ANSI/TIA-603-D KDB 971168	PASS	
FCC § 27.50 (d)(4) IC RSS-130 4.4 IC RSS-139 6.5	Equivalent isotropic radiated power	ANSI/TIA-603-D KDB 971168	PASS	
FCC § 27.50 (d)(5) IC RSS-130 4.4 IC RSS-139 6.5	Peak to average ratio	KDB 971168	N/R	
FCC § 27.53(c) FCC § 27.53(h) IC RSS-130 4.6 IC RSS-139 6.6	Band-edge compliance	KDB 971168	N/R	
FCC § 27.53(c) FCC § 27.53(h) IC RSS-130 4.6 IC RSS-139 6.6	Conducted out-of-band emissions	KDB 971168	N/R	
FCC § 27.53(c) FCC § 27.53(h) IC RSS-130 4.6 IC RSS-139 6.6	Radiated out-of-band emissions	ANSI/TIA-603-D KDB 971168	PASS	
RSS-130 3.1 RSS-139 3.1 IC RSS-Gen 7.1	Receiver radiated spurious emissions	IC RSS-Gen 7.1	PASS	
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Occupied Bandwidth

Occupied Bandwidth acc. to FCC 2.1046, IC RSS-130, IC RSS-139			
Test according to measurement reference	Reference Method		
	KDB 971168 / RSS-Gen 6.6		
Test frequency range	Tested frequencies		
	F _{LOW} / F _{MID} / F _{HIGH}		
Limits			
None (Informational only)			
Test setup			
Spectrum Analyzer EUT			
Test procedure			
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Resolution bandwidth set to 1 % of span 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function			
Test results – WCDMA IV			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [MHz]
F _{LOW}	1712.4	HSPA	4.168
F _{MID}	1732.6	HSPA	4.168
F _{HIGH}	1752.4	HSPA	4.168
Test results – LTE 13 QPSK			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [MHz]
F _{LOW}	779,5	QPSK 5	4.709
F _{MID}	782,0	QPSK 5	4.629
F _{HIGH}	784,5	QPSK 5	4.609
F _{MID}	782,0	QPSK 10	9.058
Comments:			

Test results – LTE 13 - QAM			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [MHz]
F _{LOW}	779,5	16-QAM 5	4.769
F _{MID}	782,0	16-QAM 5	4.649
F _{HIGH}	784,5	16-QAM 5	4.629
F _{MID}	782,0	16-QAM 10	9.058
Test results – LTE 4 - QPSK			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [MHz]
F _{LOW}	1710,7	QPSK 1.4	1.106
F _{MID}	1732,5	QPSK 1.4	1.114
F _{HIGH}	1754,3	QPSK 1.4	1.114
F _{LOW}	1711,5	QPSK 3	2.765
F _{MID}	1732,5	QPSK 3	2.895
F _{HIGH}	1753,5	QPSK 3	2.765
F _{LOW}	1712,5	QPSK 5	4.529
F _{MID}	1732,5	QPSK 5	4.809
F _{HIGH}	1752,5	QPSK 5	4.529
F _{LOW}	1715,0	QPSK 10	8.978
F _{MID}	1732,5	QPSK 10	9.018
F _{HIGH}	1750,0	QPSK 10	9.018
F _{LOW}	1717,5	QPSK 15	13.507
F _{MID}	1732,5	QPSK 15	13.707
F _{HIGH}	1747,5	QPSK 15	13.987
F _{LOW}	1720,0	QPSK 20	17.976
F _{MID}	1732,5	QPSK 20	17.855
F _{HIGH}	1745,0	QPSK 20	18.096
Comments:			

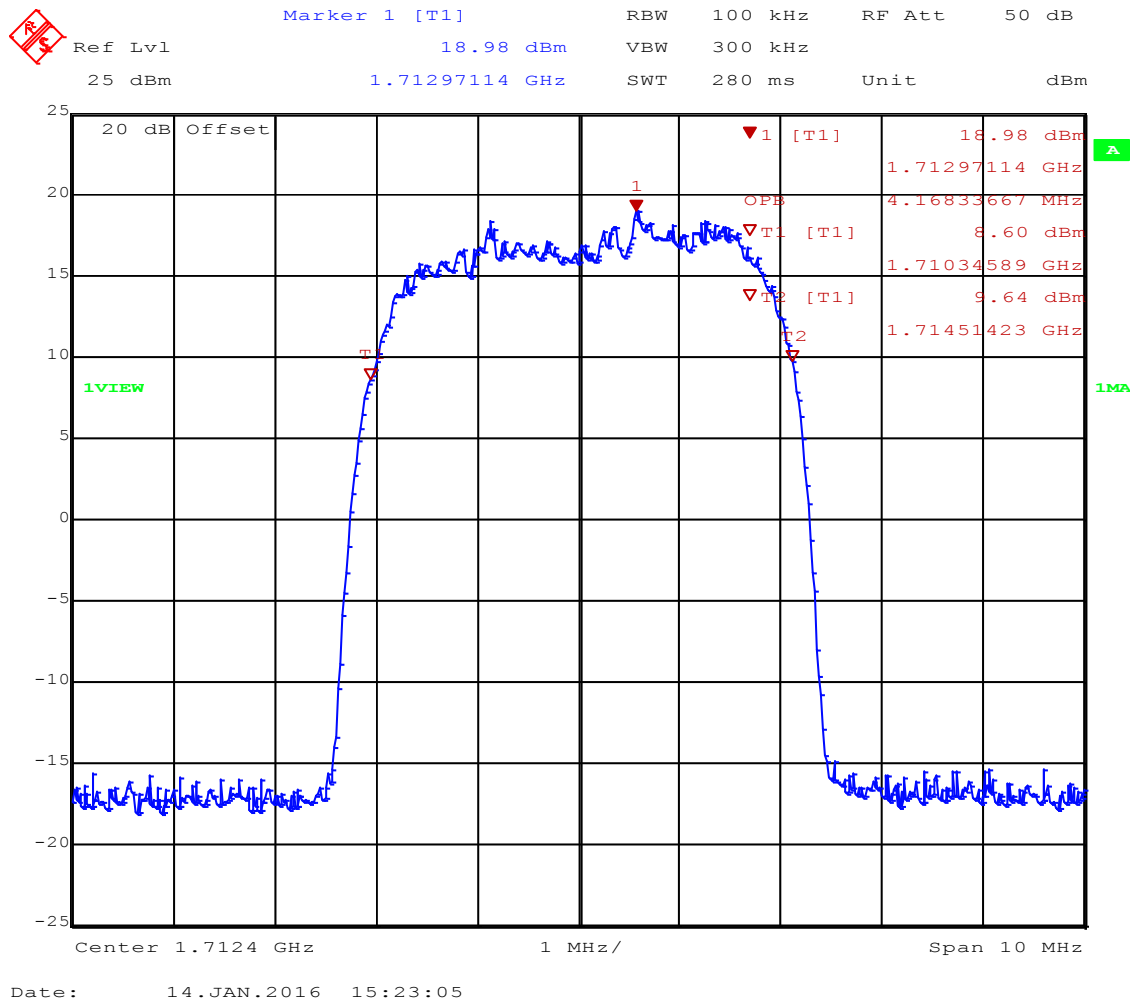
Test results – LTE 4 - QAM			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [MHz]
F _{LOW}	1710,7	16-QAM 1.4	1.114
F _{MID}	1732,5	16-QAM 1.4	1.114
F _{HIGH}	1754,3	16-QAM 1.4	1.106
F _{LOW}	1711,5	16-QAM 3	2.785
F _{MID}	1732,5	16-QAM 3	2.805
F _{HIGH}	1753,5	16-QAM 3	2.785
F _{LOW}	1712,5	16-QAM 5	4.529
F _{MID}	1732,5	16-QAM 5	4.549
F _{HIGH}	1752,5	16-QAM 5	4.549
F _{LOW}	1715,0	16-QAM 10	9.058
F _{MID}	1732,5	16-QAM 10	9.098
F _{HIGH}	1750,0	16-QAM 10	9.058
F _{LOW}	1717,5	16-QAM 15	13.467
F _{MID}	1732,5	16-QAM 15	13.426
F _{HIGH}	1747,5	16-QAM 15	13.587
F _{LOW}	1720,0	16-QAM 20	17.916
F _{MID}	1732,5	16-QAM 20	17.916
F _{HIGH}	1745,0	16-QAM 20	18.096
Comments:			

Occupied Bandwidth – FDD IV F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: UMTS FDD IV / CH: 1312 / HSUPA-HSDPA
Test Date: 2016-01-14
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.168 MHz



Test Report No.: GOM-1601-5302-TFC227UL-V02

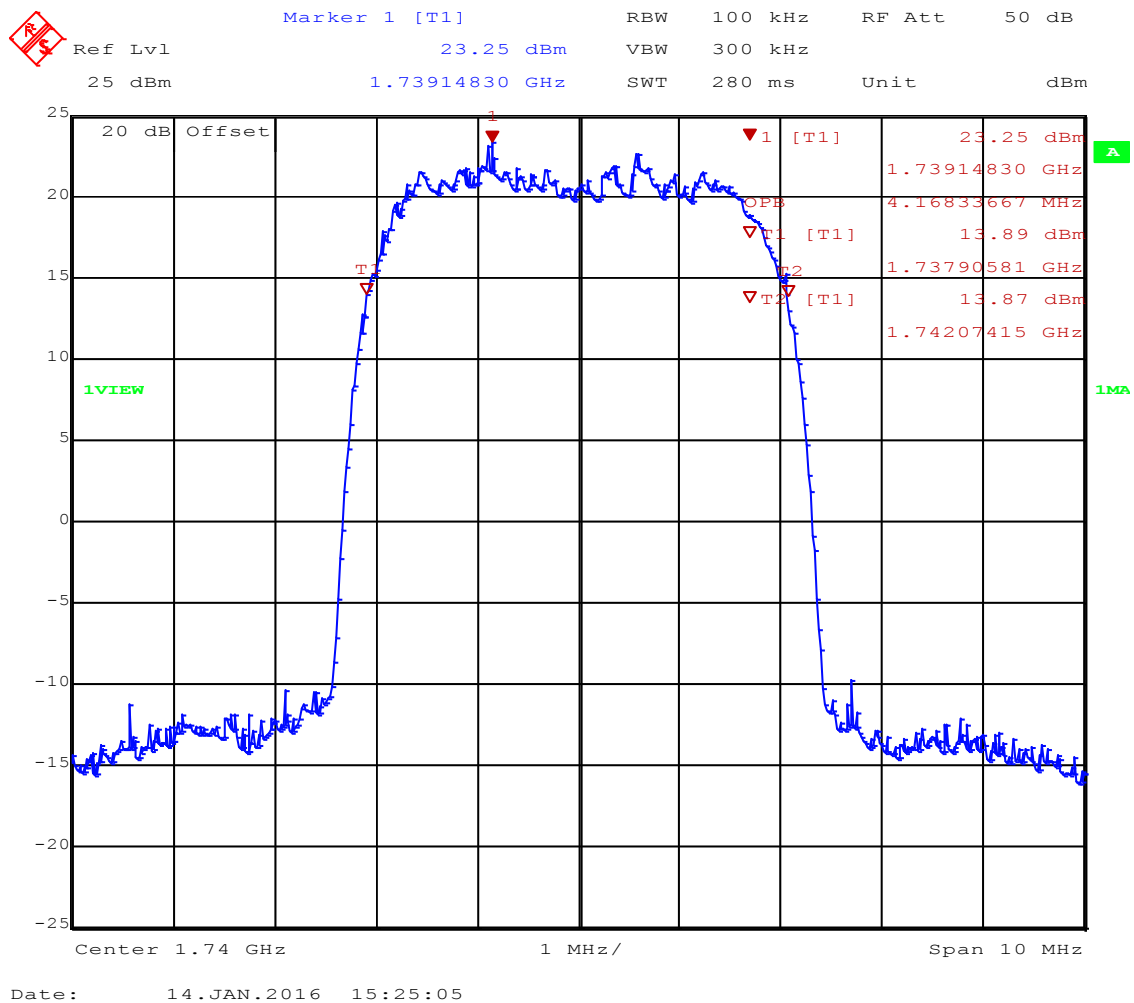
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – FDD IV F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: UMTS FDD IV / CH: 1413 / HSUPA-HSDPA
Test Date: 2016-01-14
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.168 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

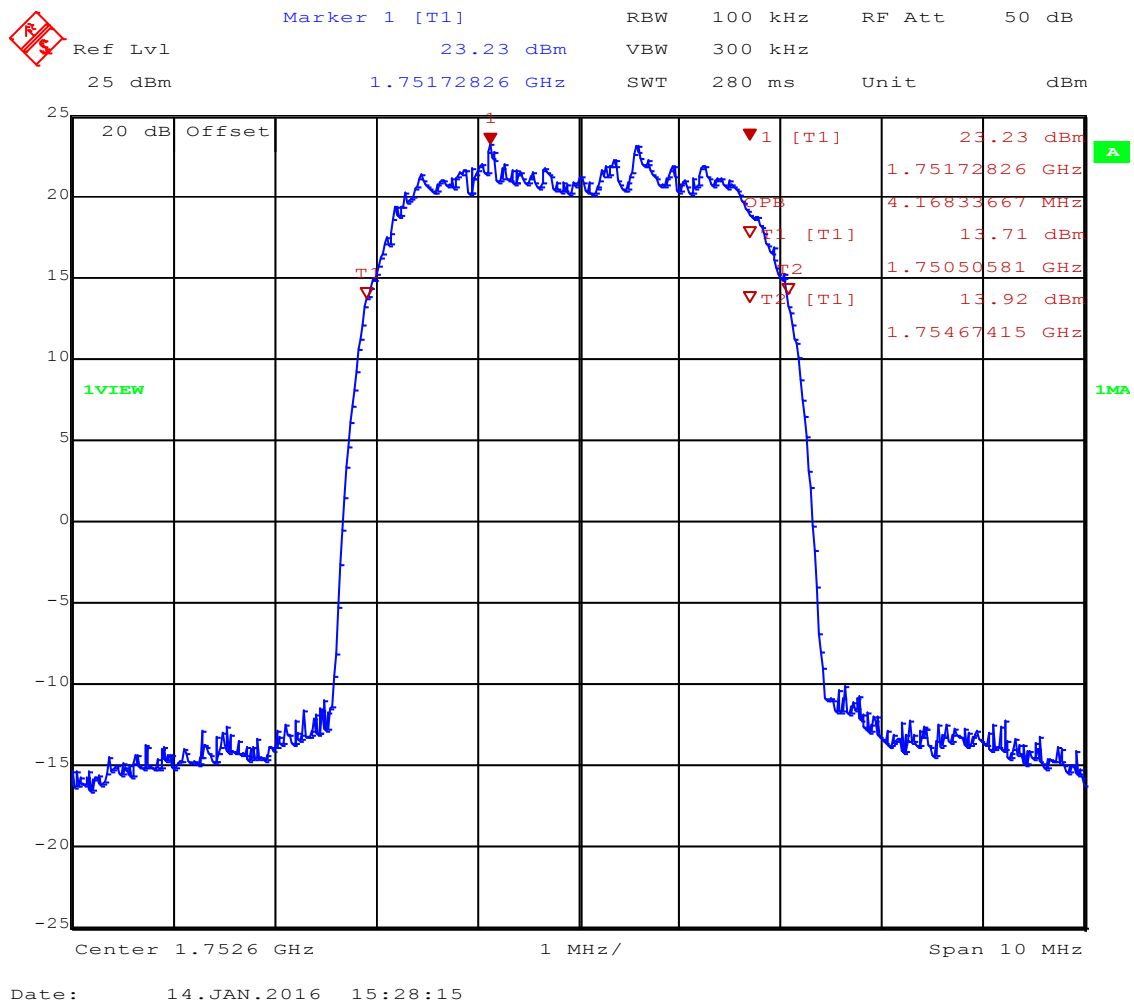
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – FDD IV F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: UMTS FDD IV / CH: 1513 / HSUPA-HSDPA
Test Date: 2016-01-14
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.168 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

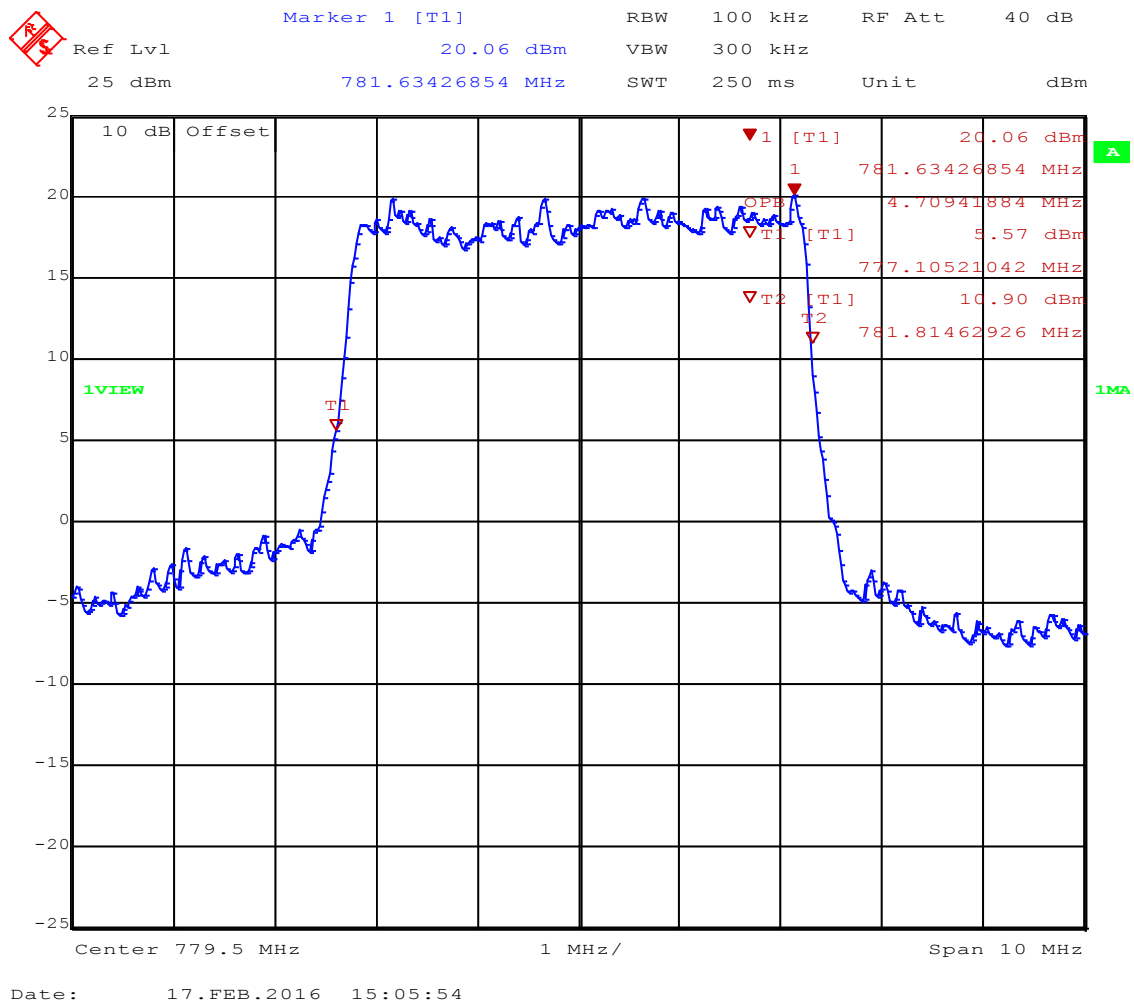
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 13 QPSK-5 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 13 / CH: 23205 / BW: 5MHz; QPSK
Test Date: 2016-02-17
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.709 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

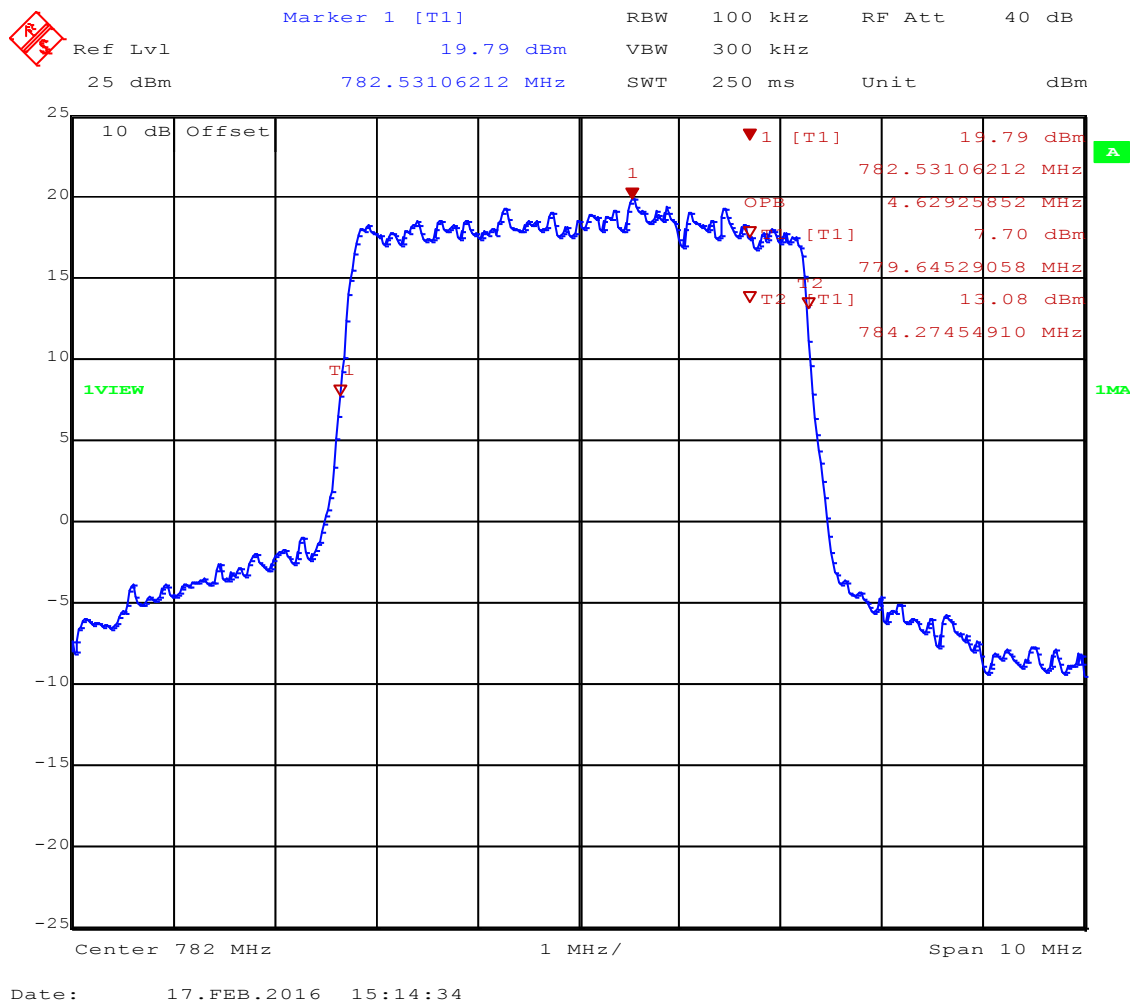
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 13 QPSK-5 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 13 / CH: 23230 / BW: 5MHz; QPSK
Test Date: 2016-02-17
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.629 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

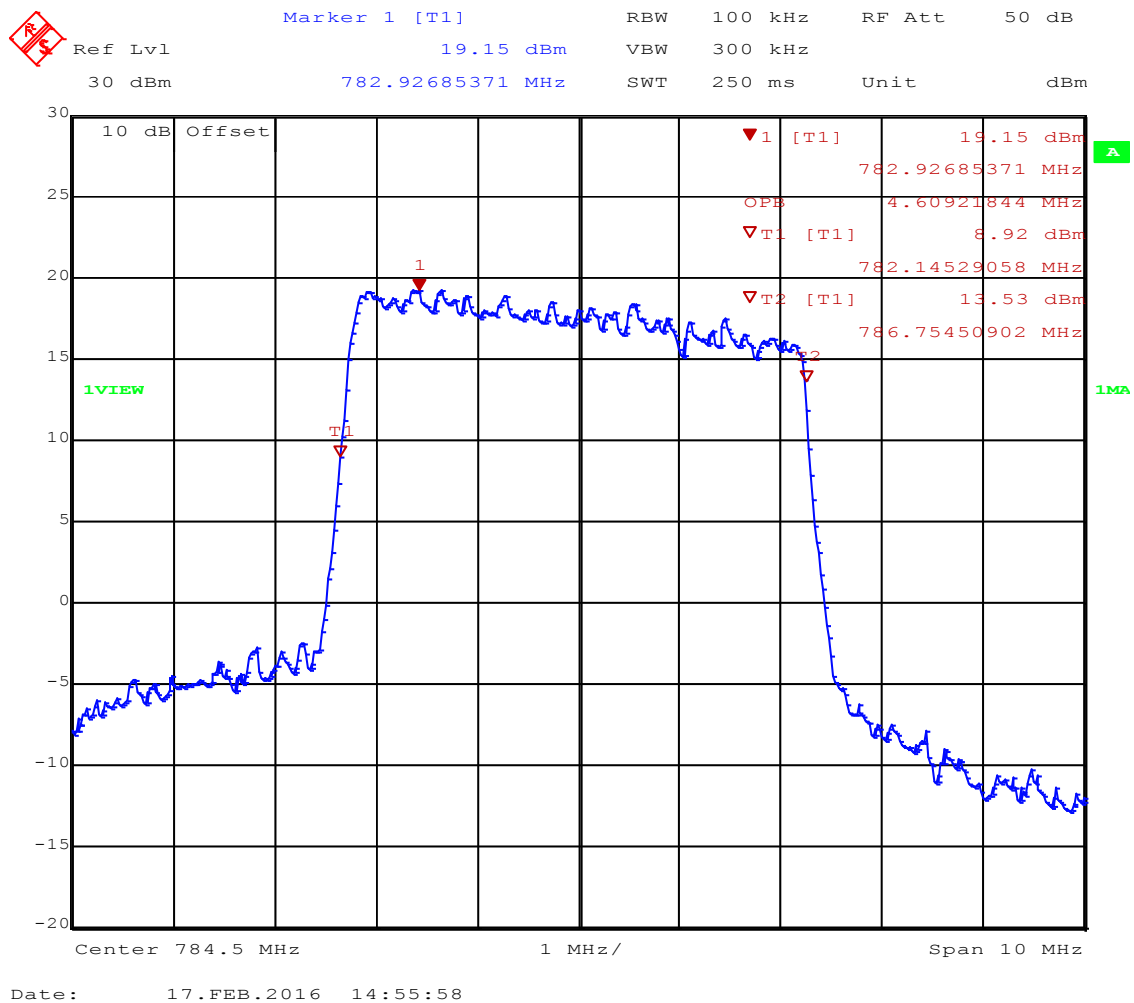
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 13 QPSK-5 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 13 / CH: 23255 / BW: 5MHz; QPSK
Test Date: 2016-02-17
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.609 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

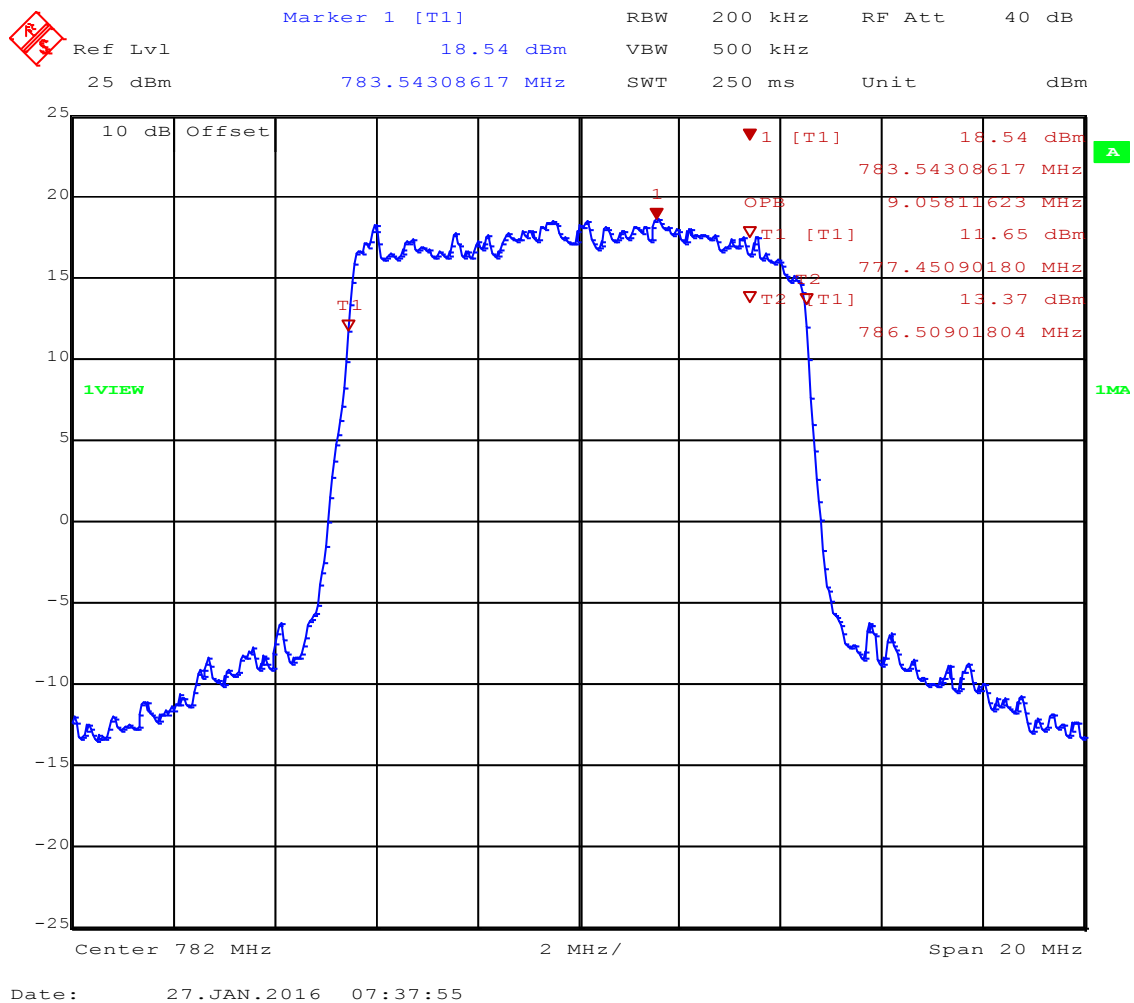
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 13 QPSK-10 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 13 / CH: 23230 / BW: 10MHz; QPSK
Test Date: 2016-01-27
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 9.058 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

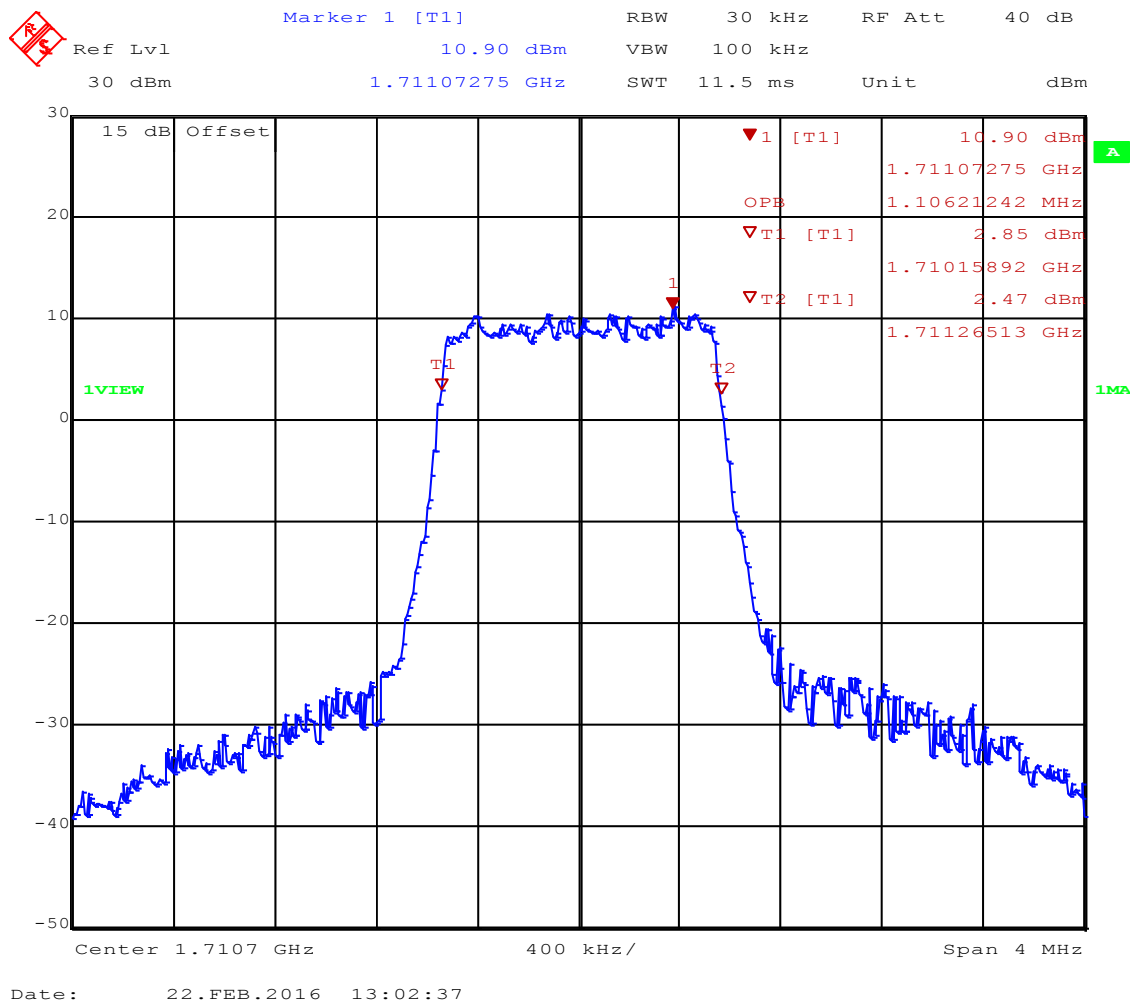
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-1.4 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 19957 / BW: 1.4MHz; QPSK
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 1.114 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

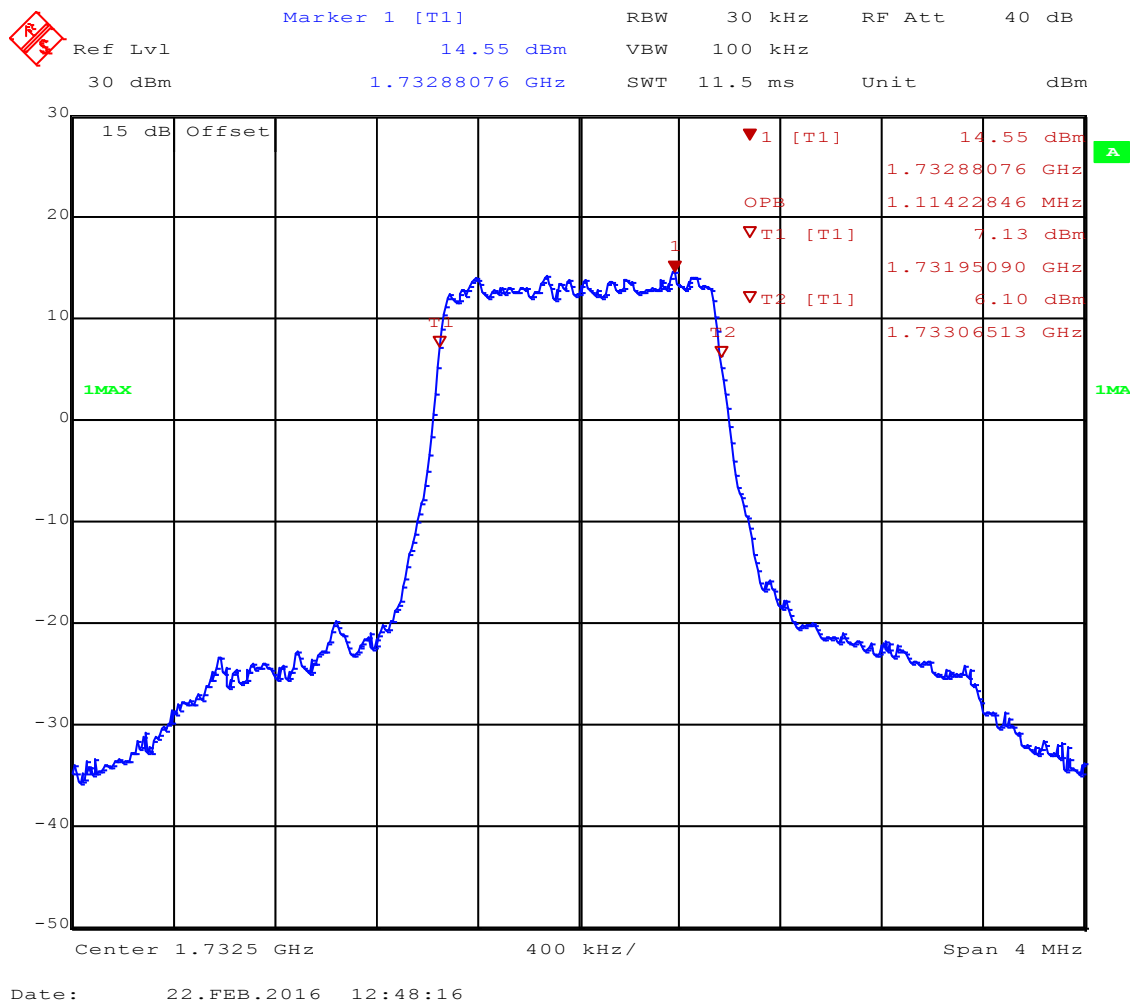
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-1.4 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 1.4MHz; QPSK
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 1.114 MHz



Test Report No.: GOM-1601-5302-TFC227UL-V02

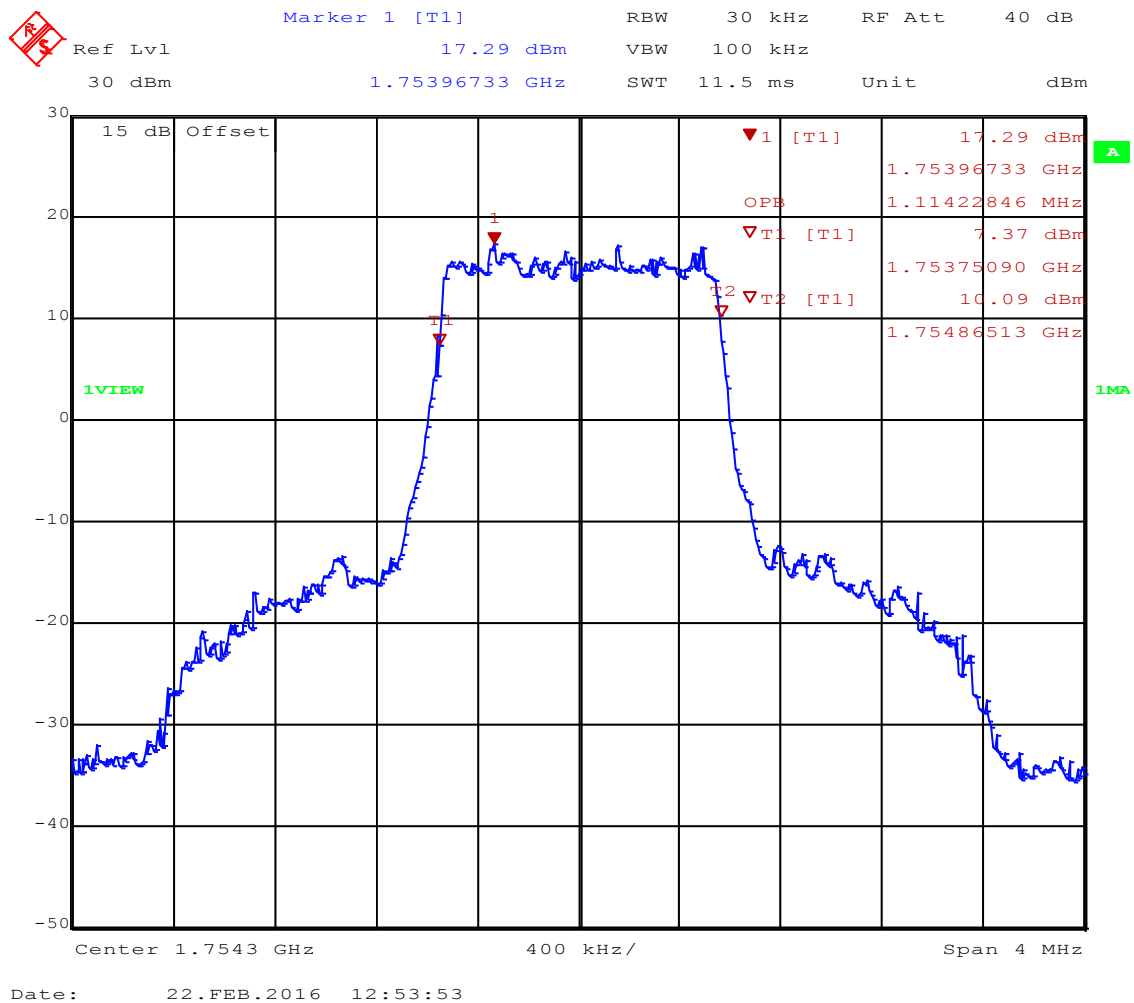
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-1.4 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20393 / BW: 1.4MHz; QPSK
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 1.114 MHz

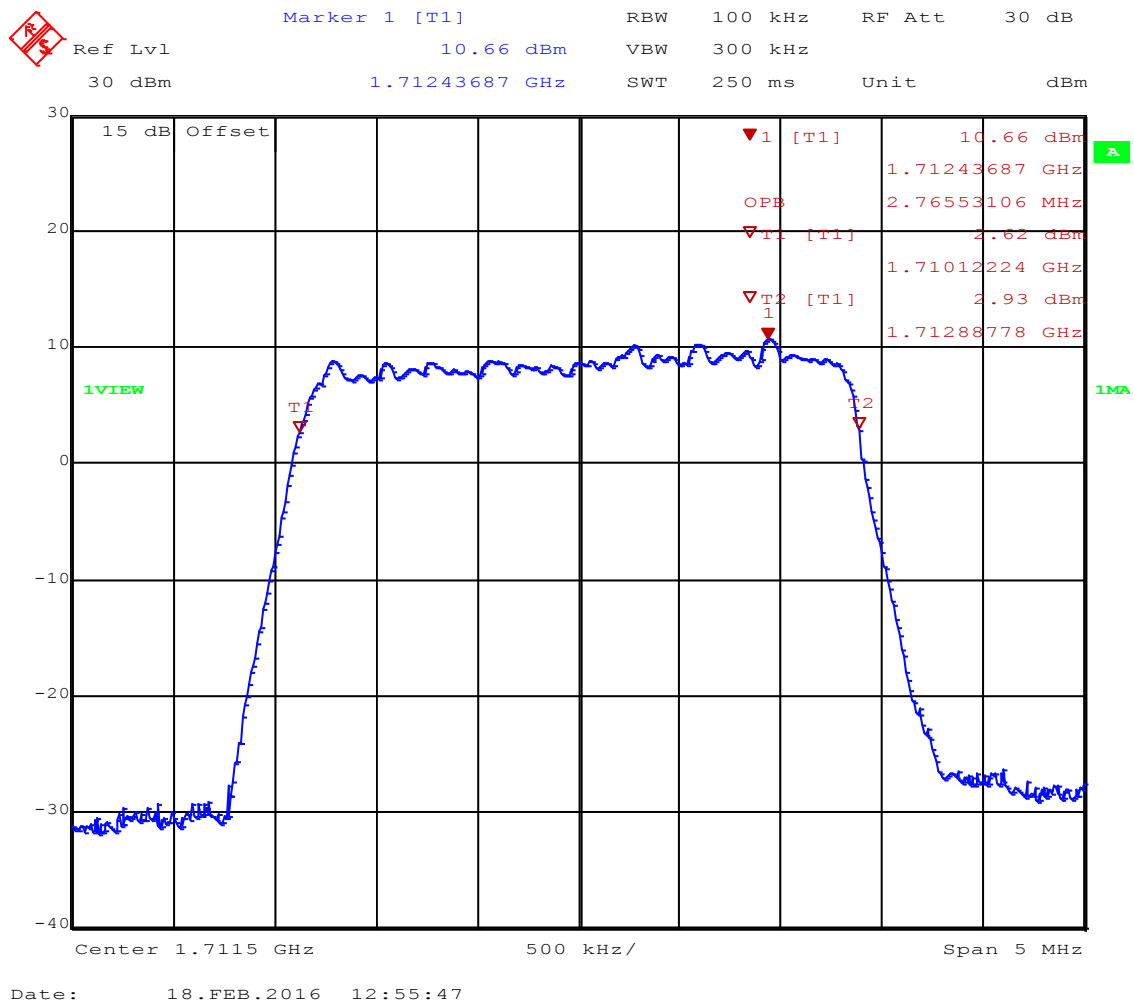


Occupied Bandwidth – LTE 4 QPSK-3 F_{LOW}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 19965 / BW: 3MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 2.765 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

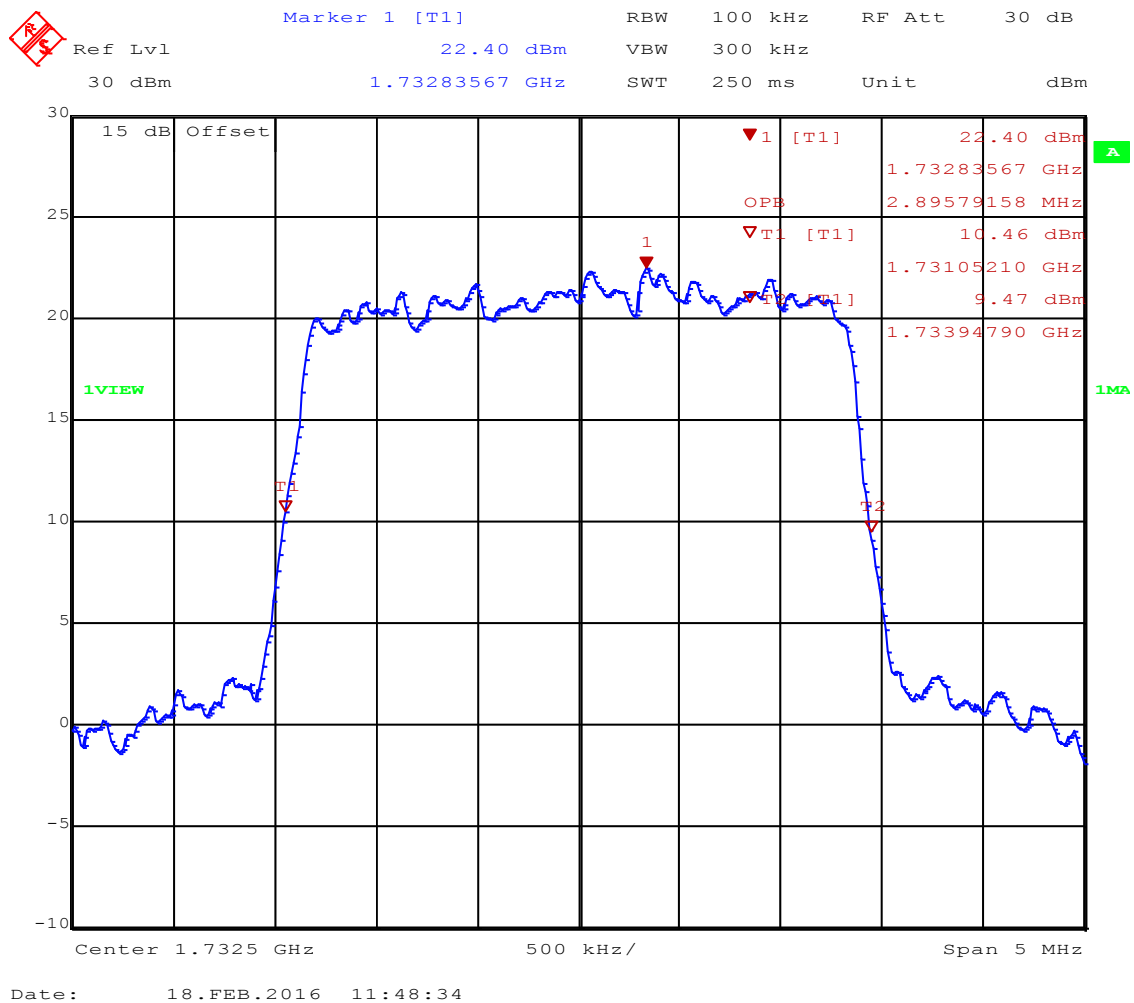
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-3 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 3MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 2.895 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

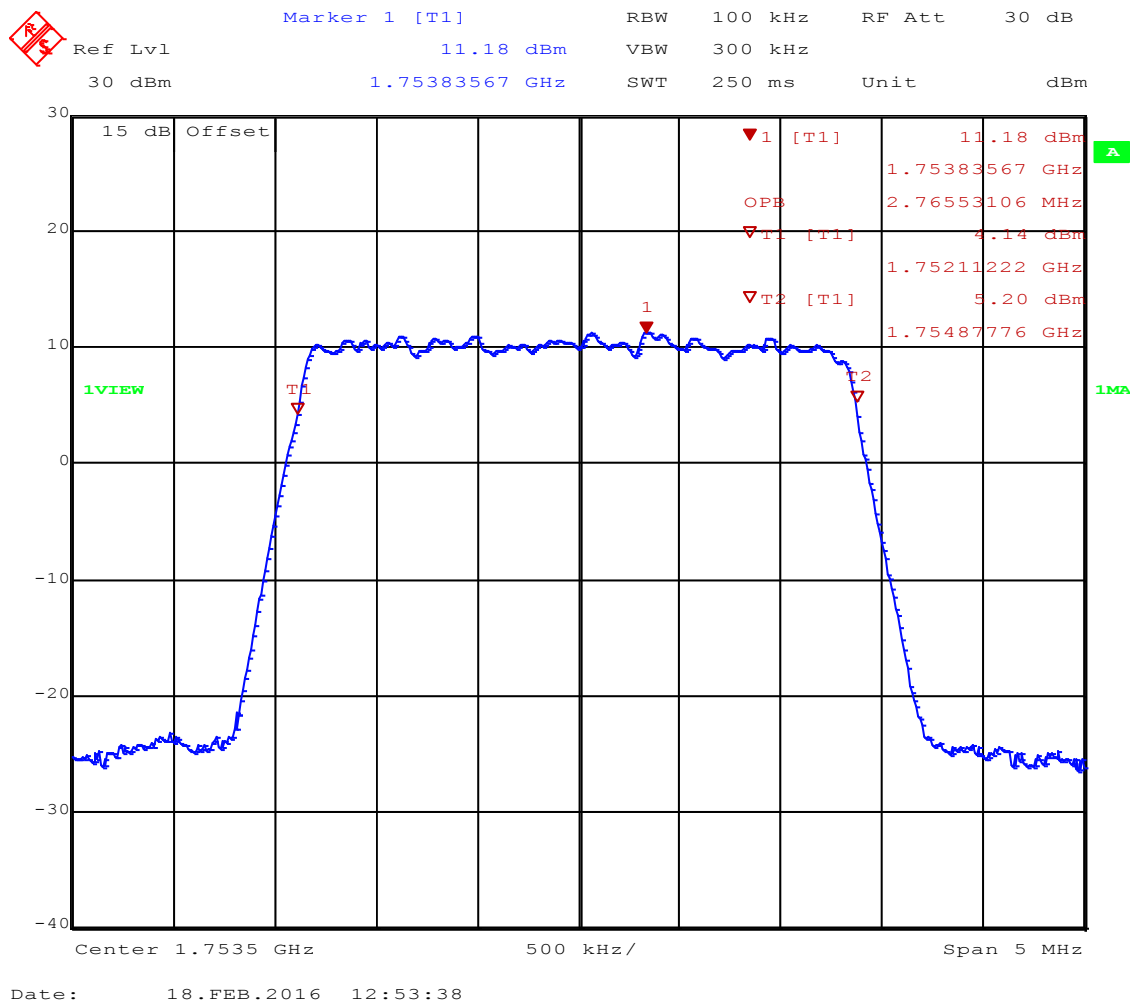
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-3 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20385 / BW: 3MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 2.765 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

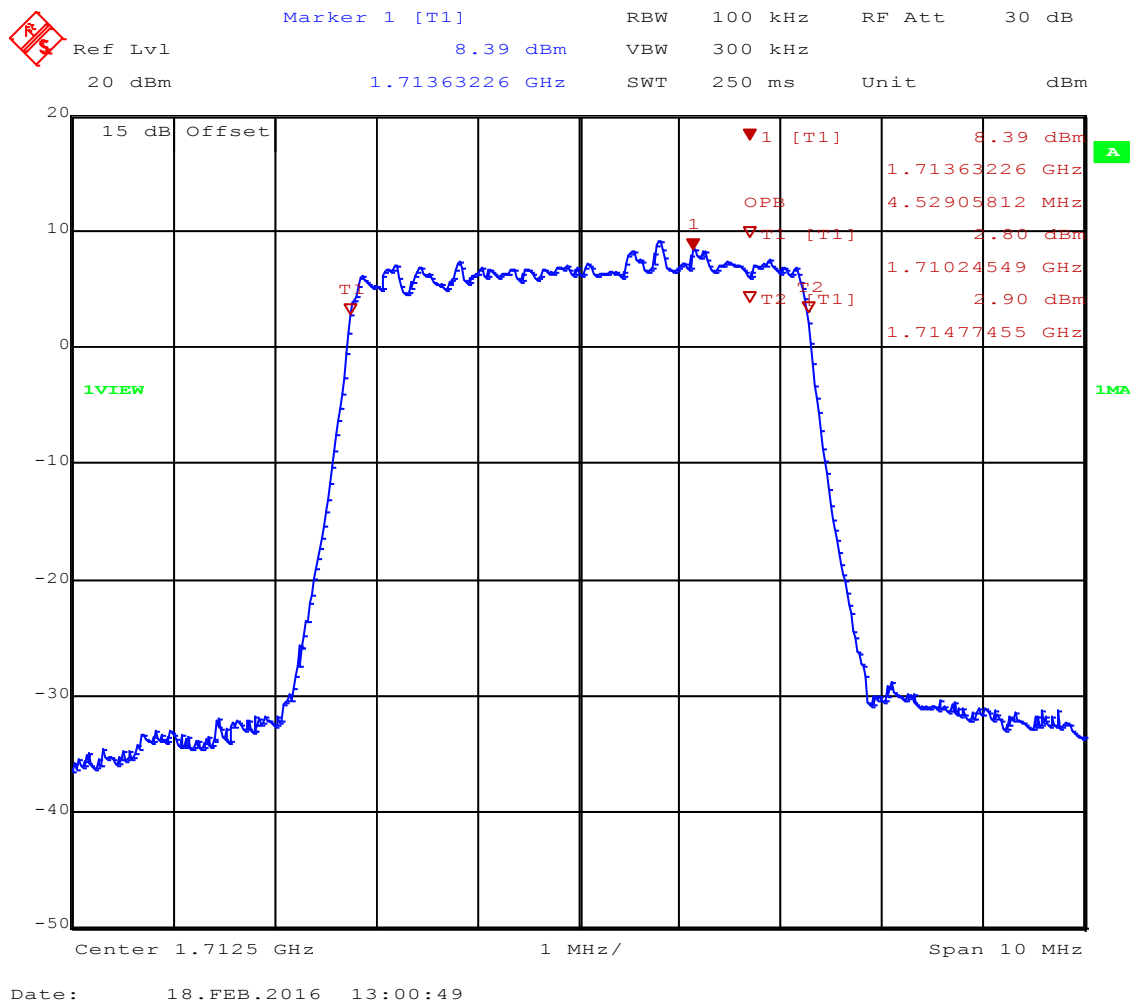
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-5 F_{LOW}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 19975 / BW: 5MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.529 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

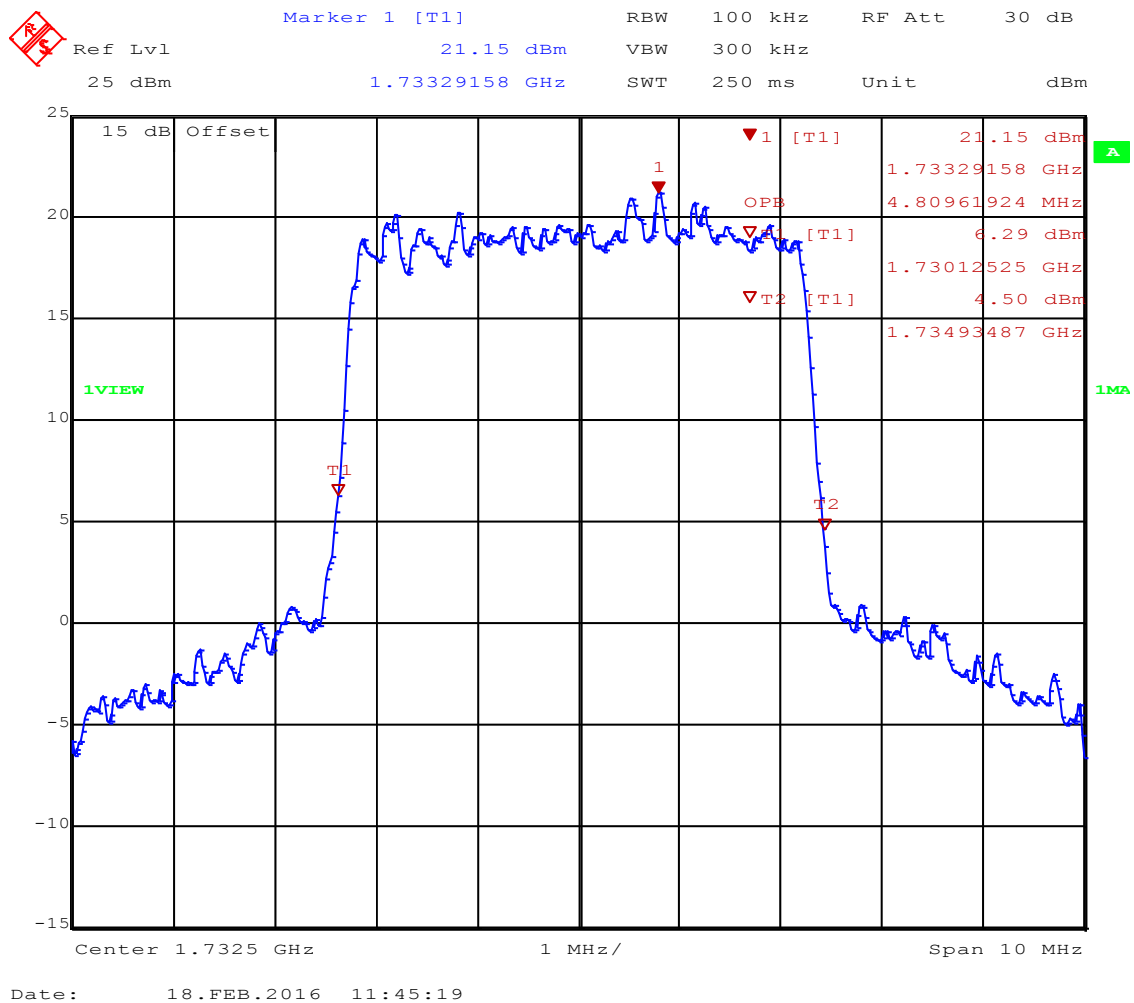
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-5 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 5MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.809 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

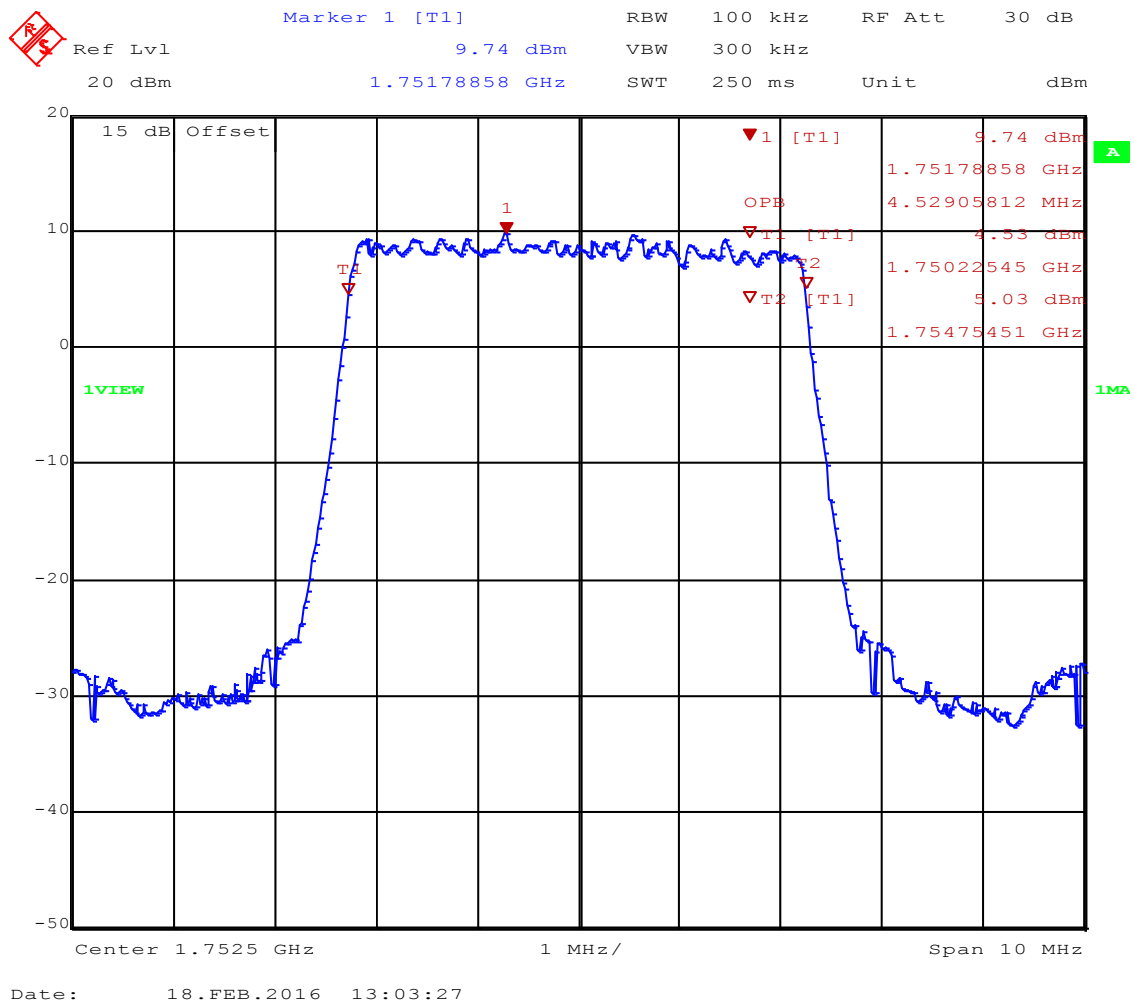
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-5 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20375 / BW: 5MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.529 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

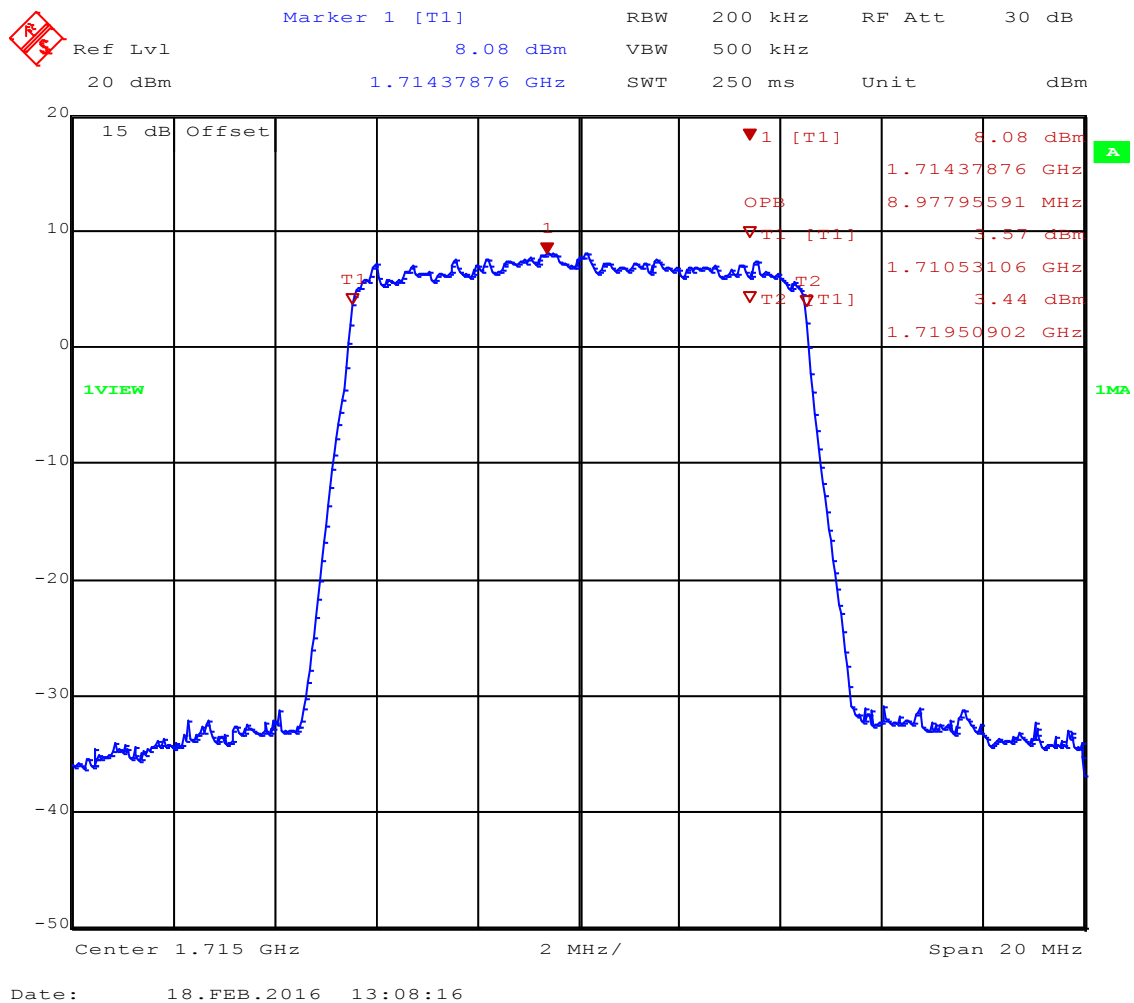
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-10 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20000 / BW: 10MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 8.978 MHz



Test Report No.: GOM-1601-5302-TFC227UL-V02

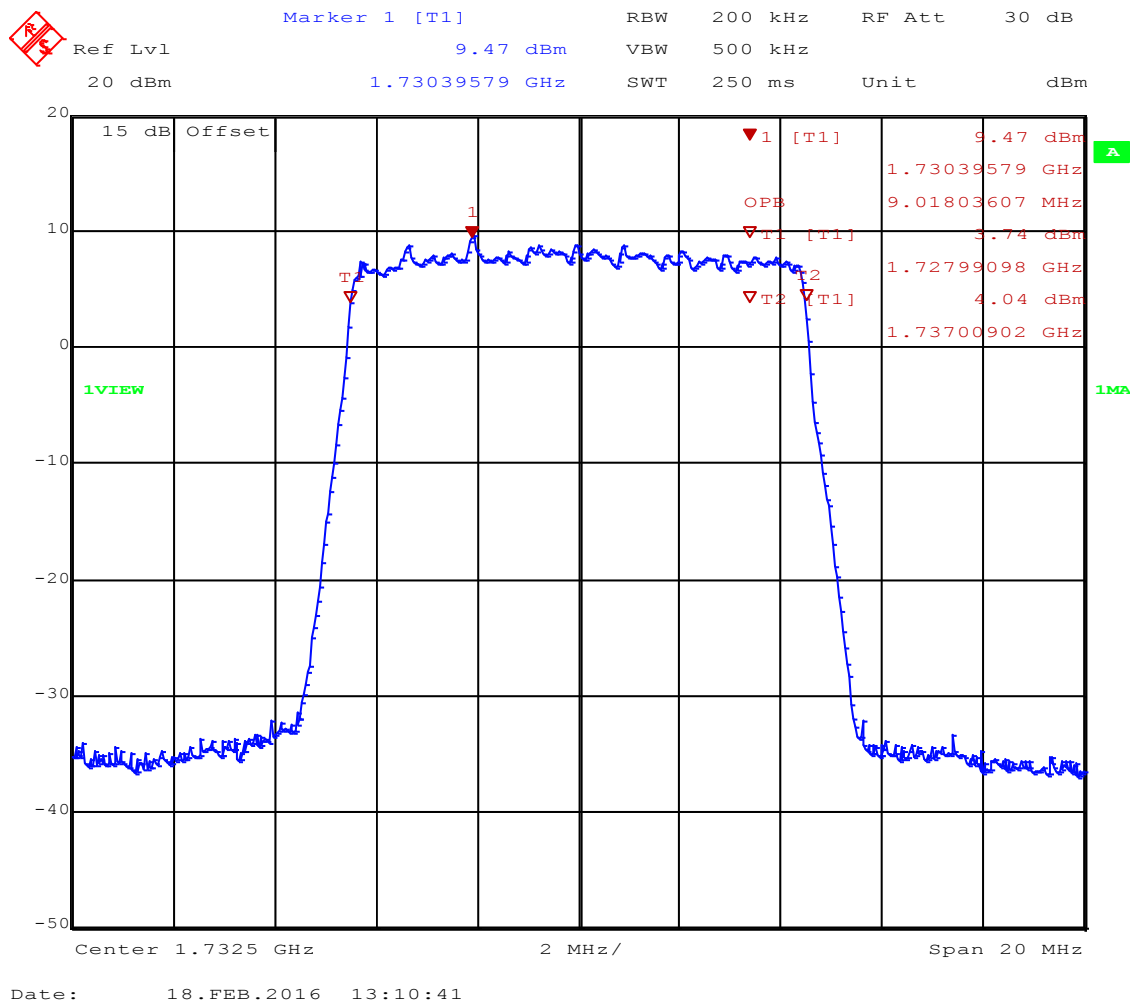
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-10 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 10MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 9.018 MHz



Test Report No.: GOM-1601-5302-TFC227UL-V02

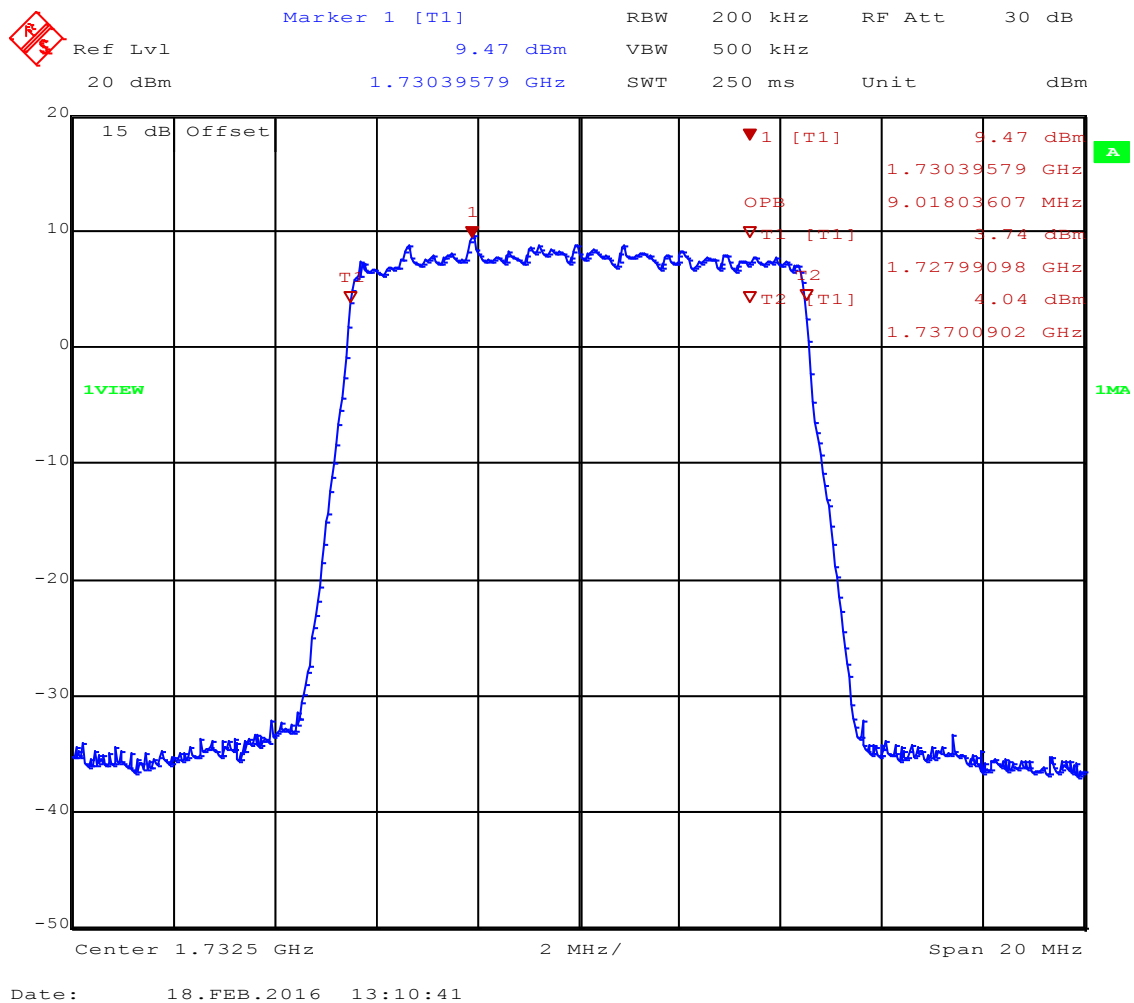
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-10 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 10MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 9.018 MHz



Test Report No.: GOM-1601-5302-TFC227UL-V02

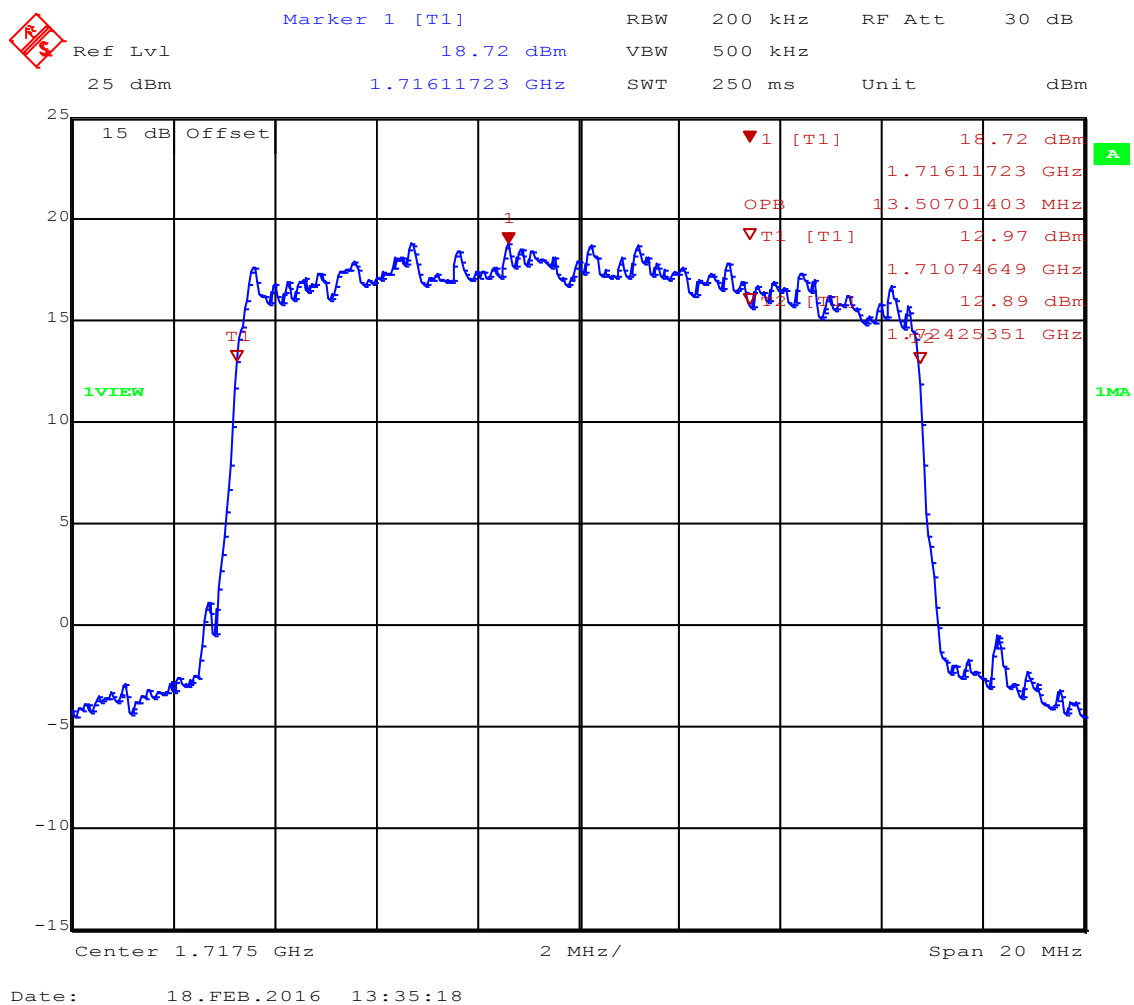
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-15 F_{LOW}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant:	lesswire GmbH
EUT Name:	2G/3G/4G WLAN Hotspot
Model:	CCU5.3.1 (BWIA3)
Test Site:	Eurofins Product Service GmbH
Operator:	Burkhard Pudell
Test Conditions:	Tnom / Vnom
Mode:	LTE FDD 4 / CH: 20025 / BW: 15MHz; QPSK
Test Date:	2016-02-18
Verdict:	NONE (INFORMATION ONLY)
Note 1:	A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2:	OBW = 13.507 MHz

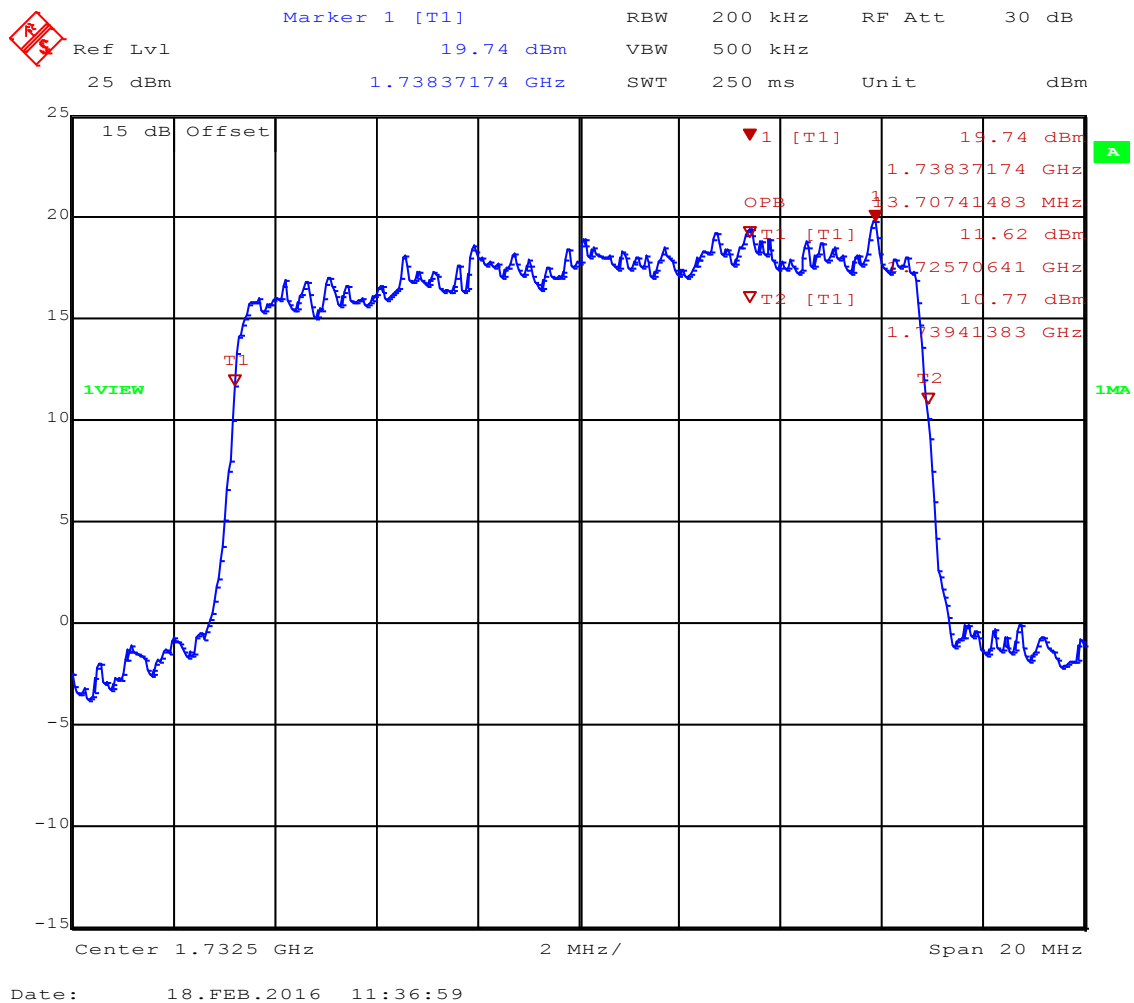


Occupied Bandwidth – LTE 4 QPSK-15 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 15MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 13.707 MHz

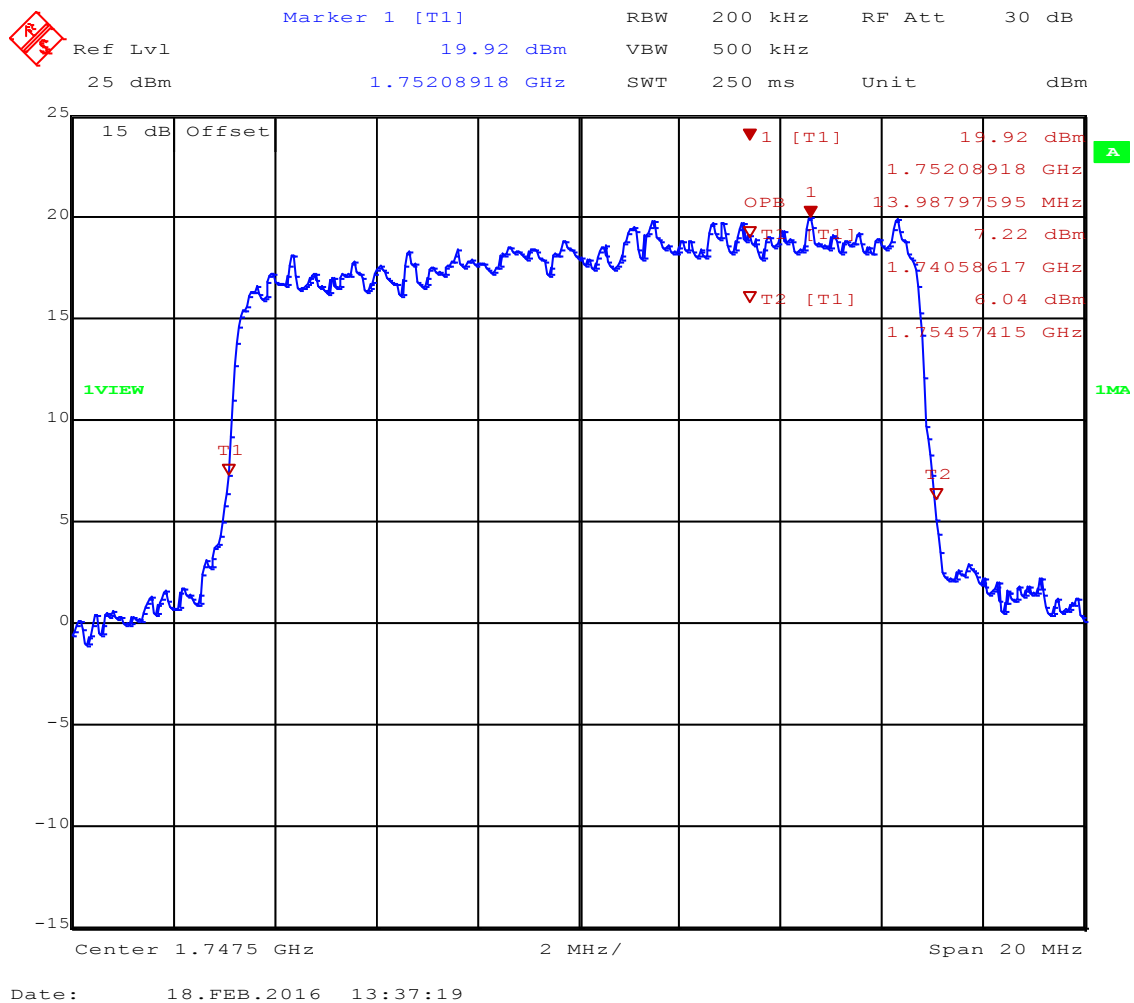


Occupied Bandwidth – LTE 4 QPSK-15 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20325 / BW: 15MHz; QPSK
Test Date: 2016-02-18
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 13.987 MHz



Test Report No.: GOM-1601-5302-TFC227UL-V02

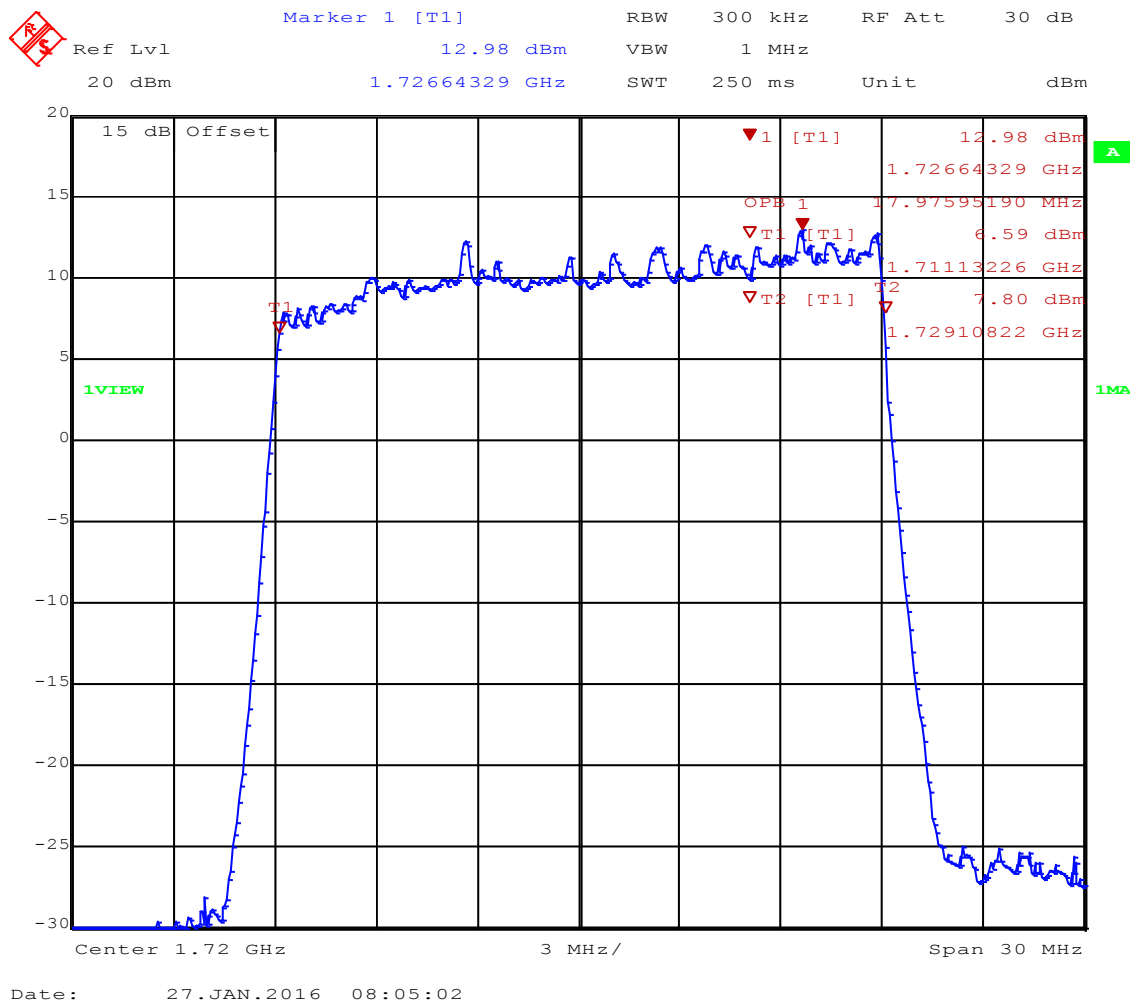
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-20 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20050 / BW: 20MHz; QPSK
Test Date: 2016-01-27
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 17.976 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

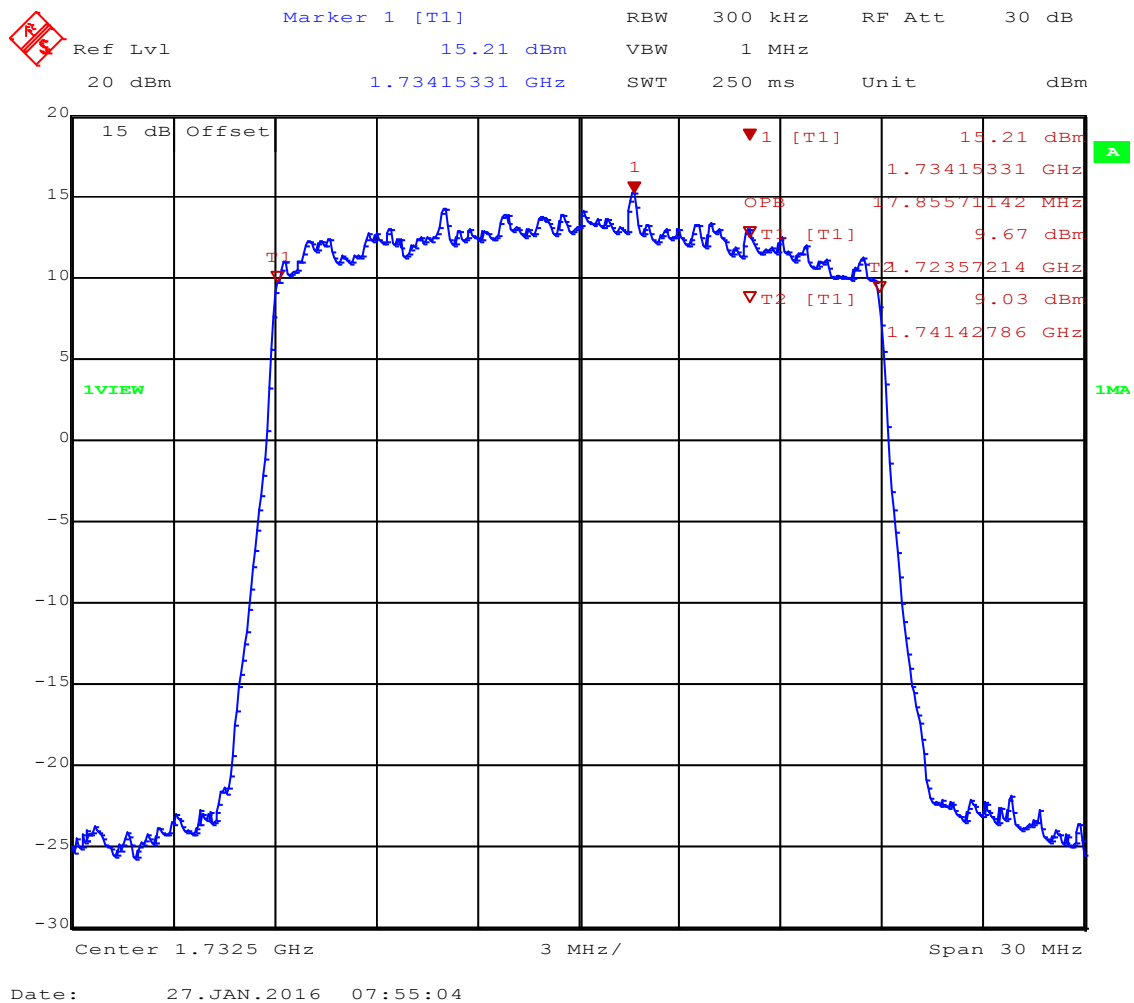
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-20 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 20MHz; QPSK
Test Date: 2016-01-27
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 17.855 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

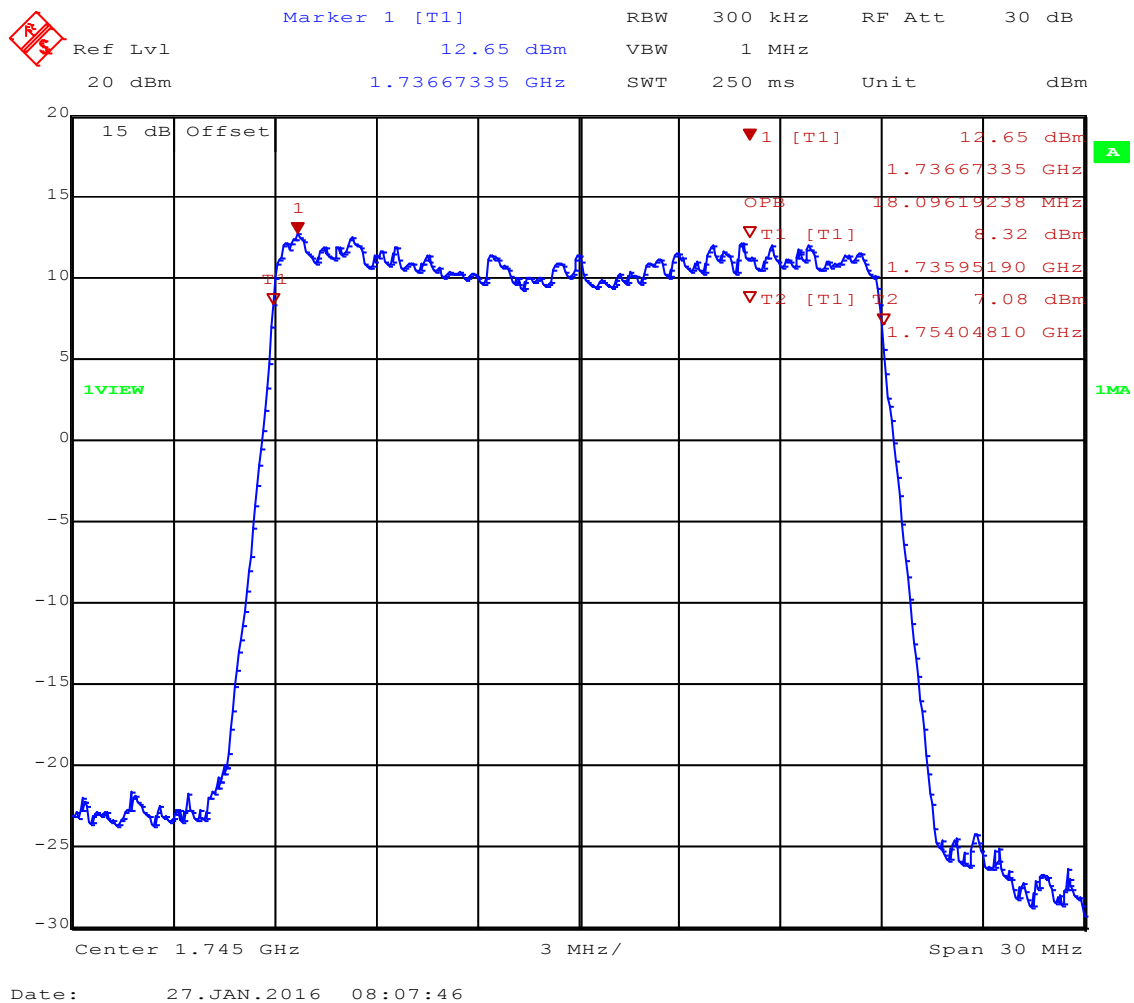
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 QPSK-20 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20300 / BW: 20MHz; QPSK
Test Date: 2016-01-27
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 18.096 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

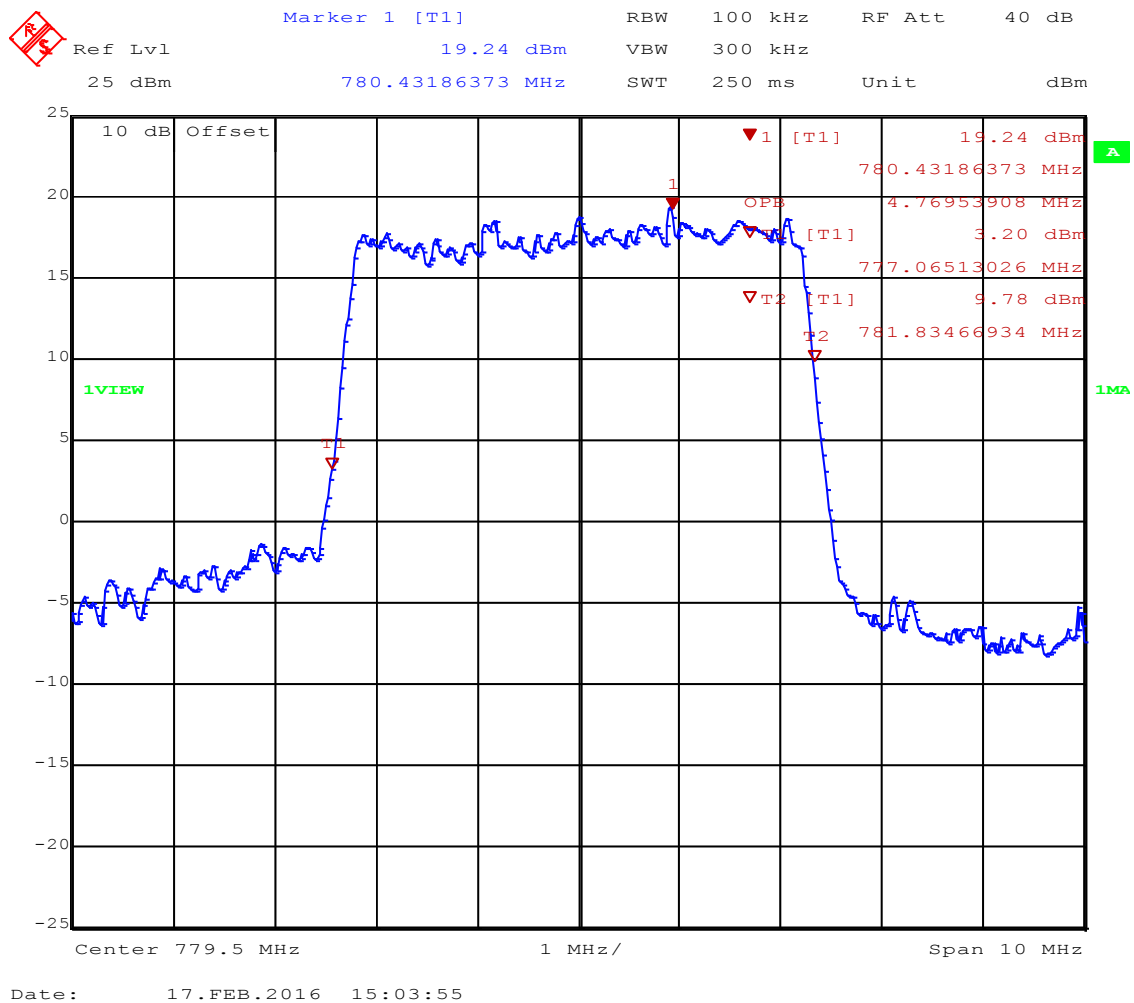
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 13 16-QAM-5 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 13 / CH: 23205 / BW: 5MHz; 16-QAM
Test Date: 2016-02-17
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.769 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

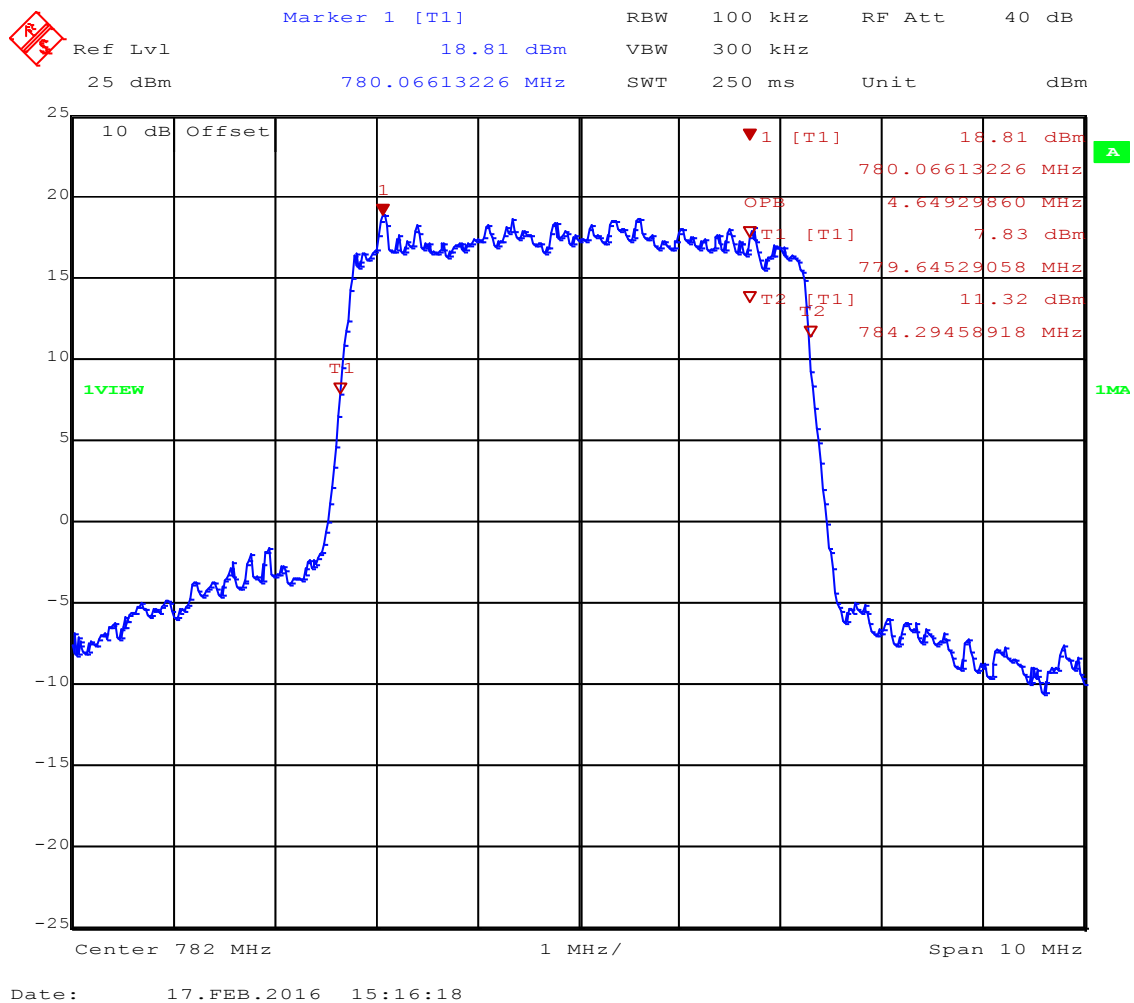
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 13 16-QAM-5 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 13 / CH: 23230 / BW: 5MHz; 16-QAM
Test Date: 2016-02-17
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.649 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

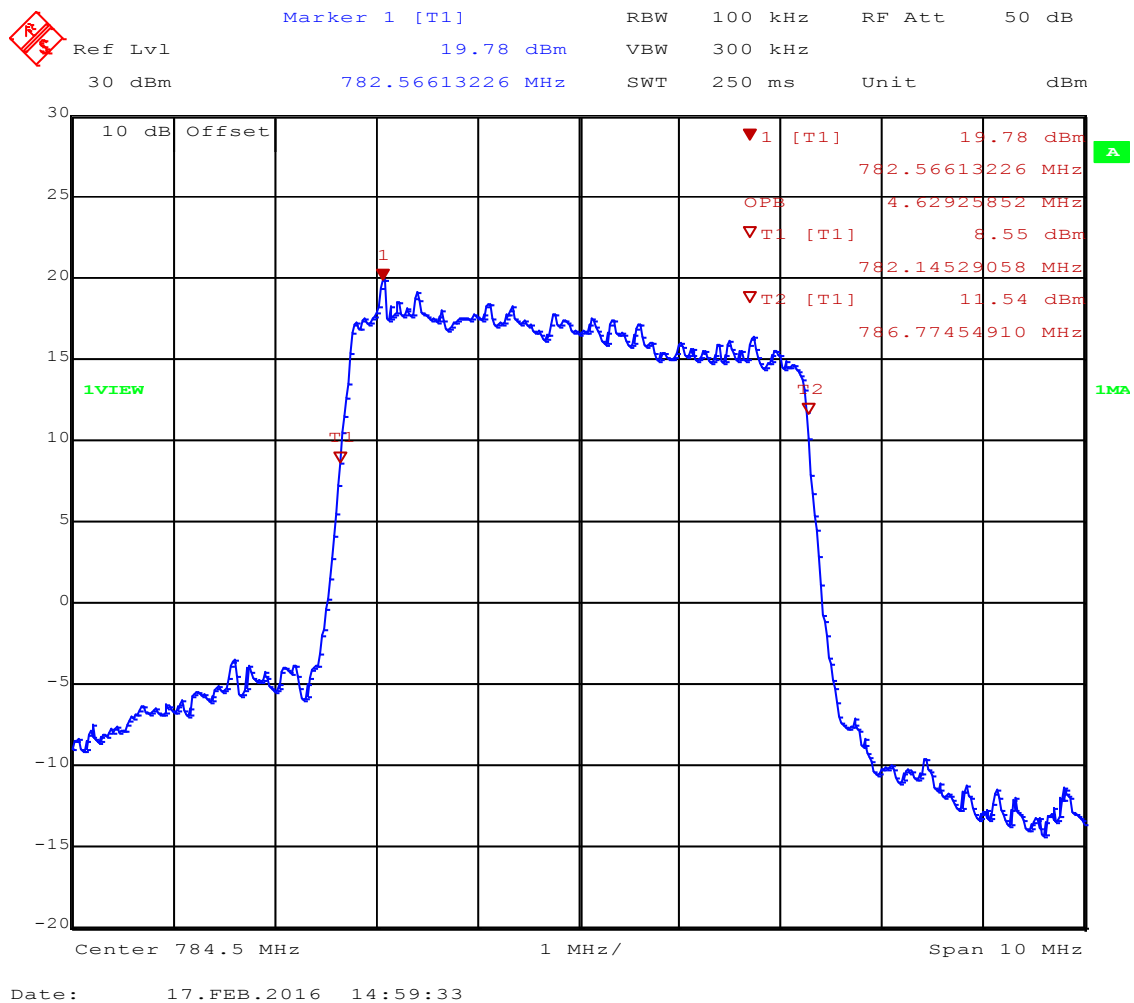
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 13 16-QAM-5 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 13 / CH: 23255 / BW: 5MHz; 16-QAM
Test Date: 2016-02-17
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.629 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

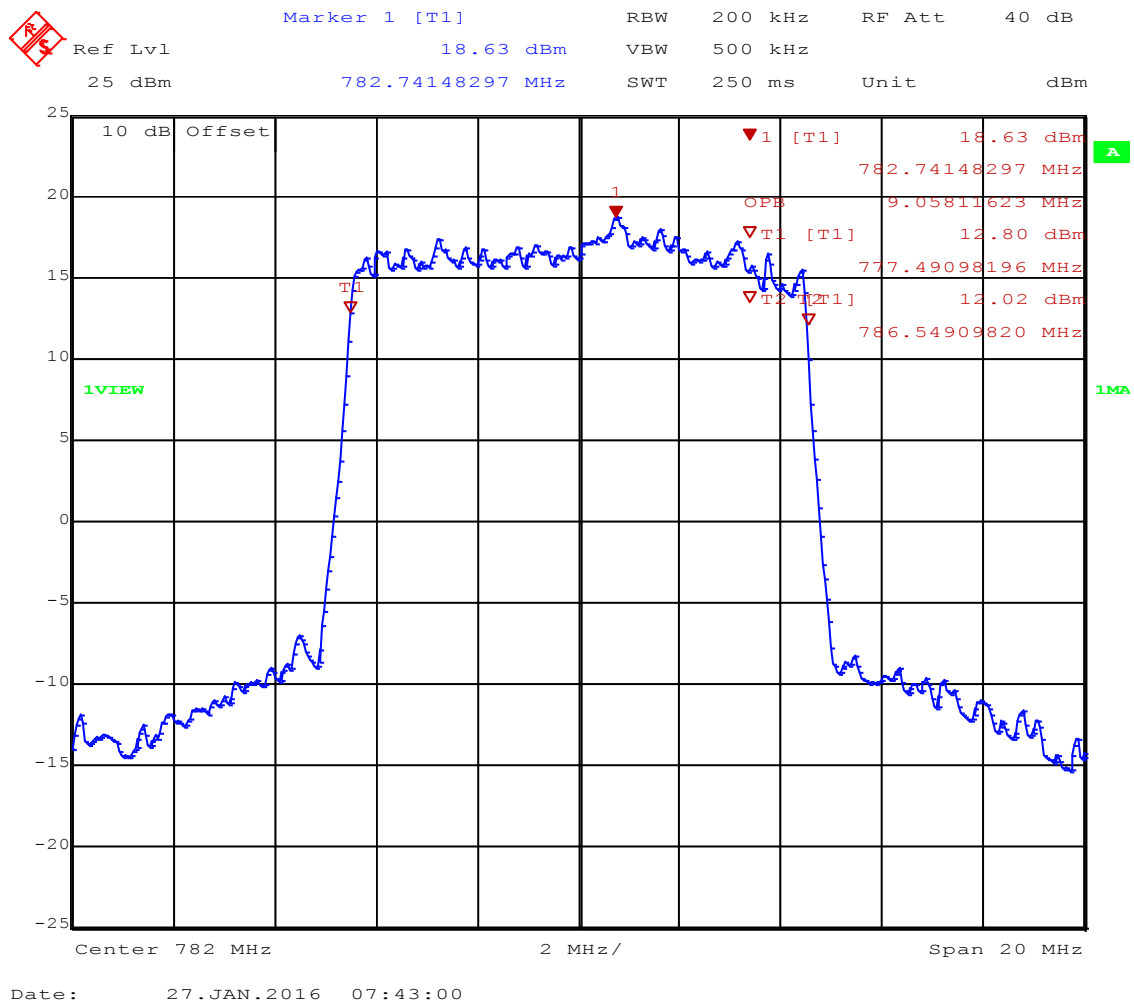
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 13 16-QAM-10 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 13 / CH: 23230 / BW: 10MHz; 16-QAM
Test Date: 2016-01-27
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 9.058 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

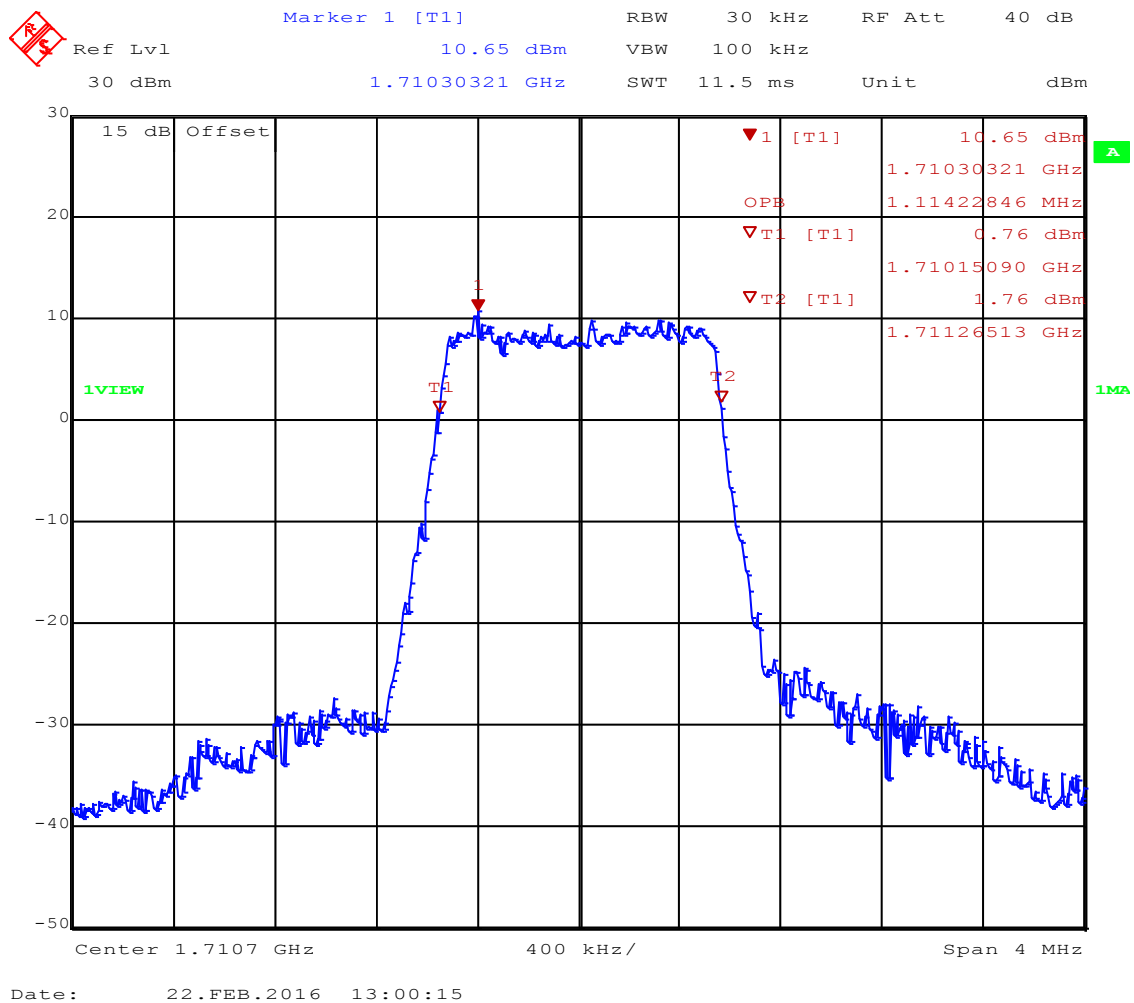
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-1.4 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 19957 / BW: 1.4MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 1.114 MHz



Test Report No.: GOM-1601-5302-TFC227UL-V02

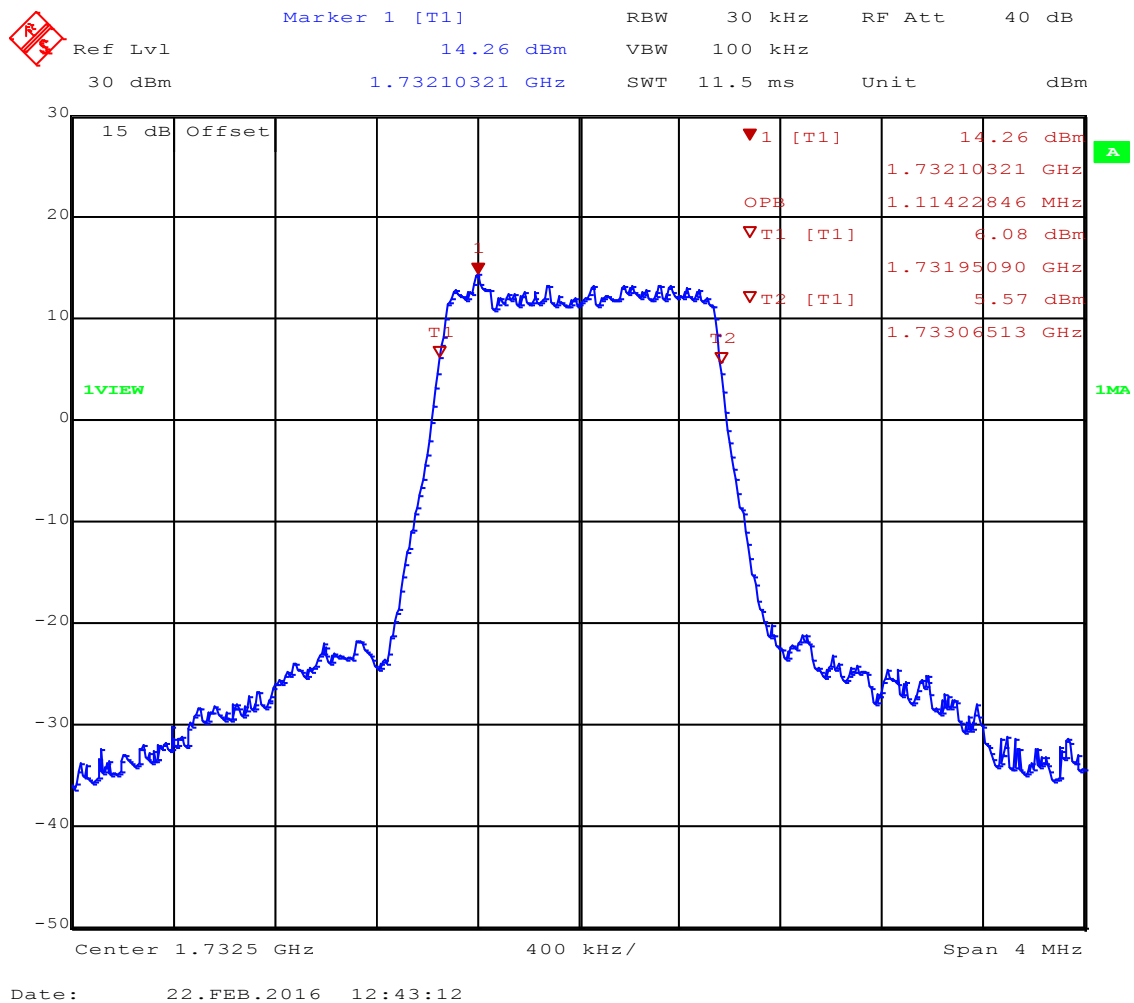
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-1.4 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 1.4MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 1.114 MHz



Test Report No.: GOM-1601-5302-TFC227UL-V02

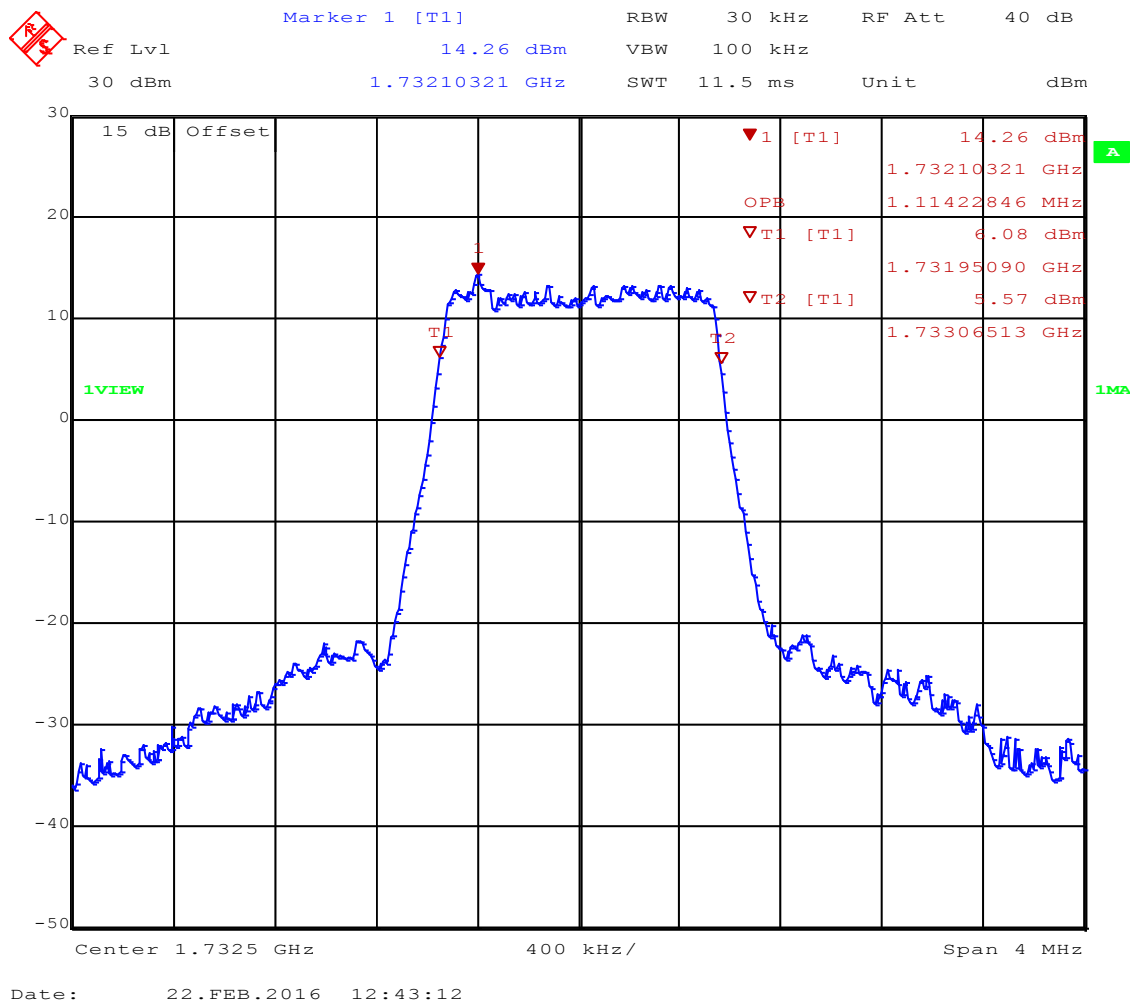
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-1.4 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 1.4MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 1.114 MHz



Test Report No.: GOM-1601-5302-TFC227UL-V02

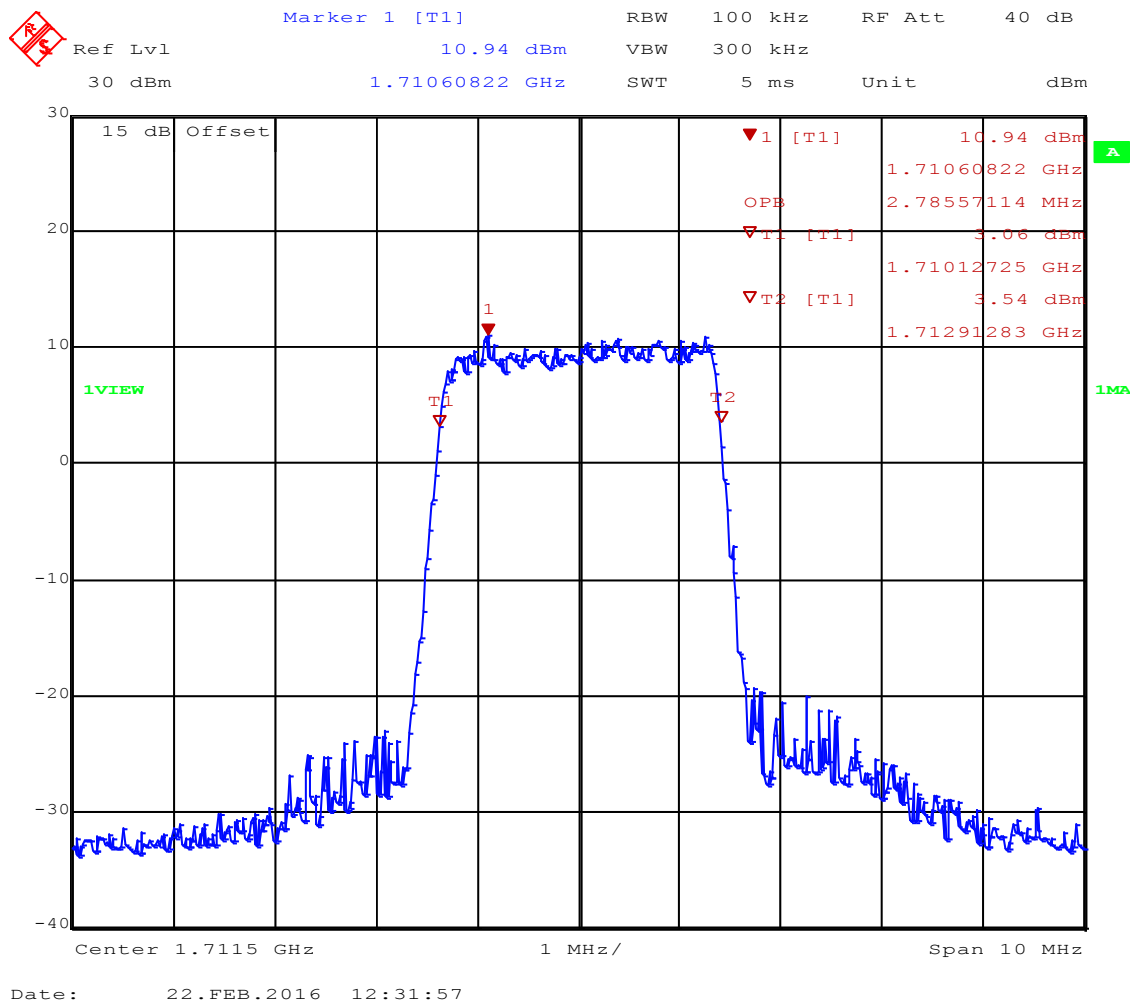
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-3 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 19965 / BW: 3MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 2.785 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

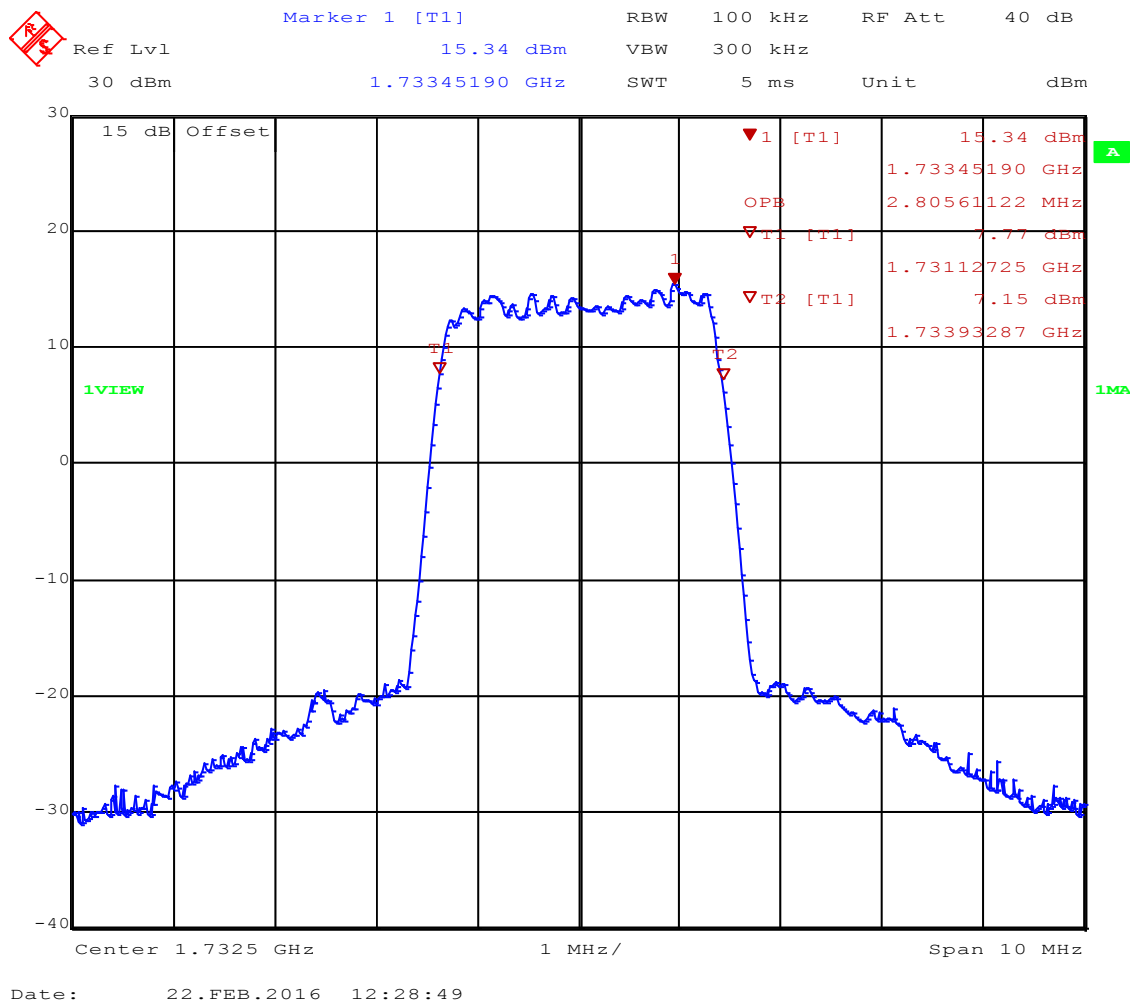
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-3 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: GOM-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 3MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 2.805 MHz



Test Report No.: GOM-1601-5302-TFC227UL-V02

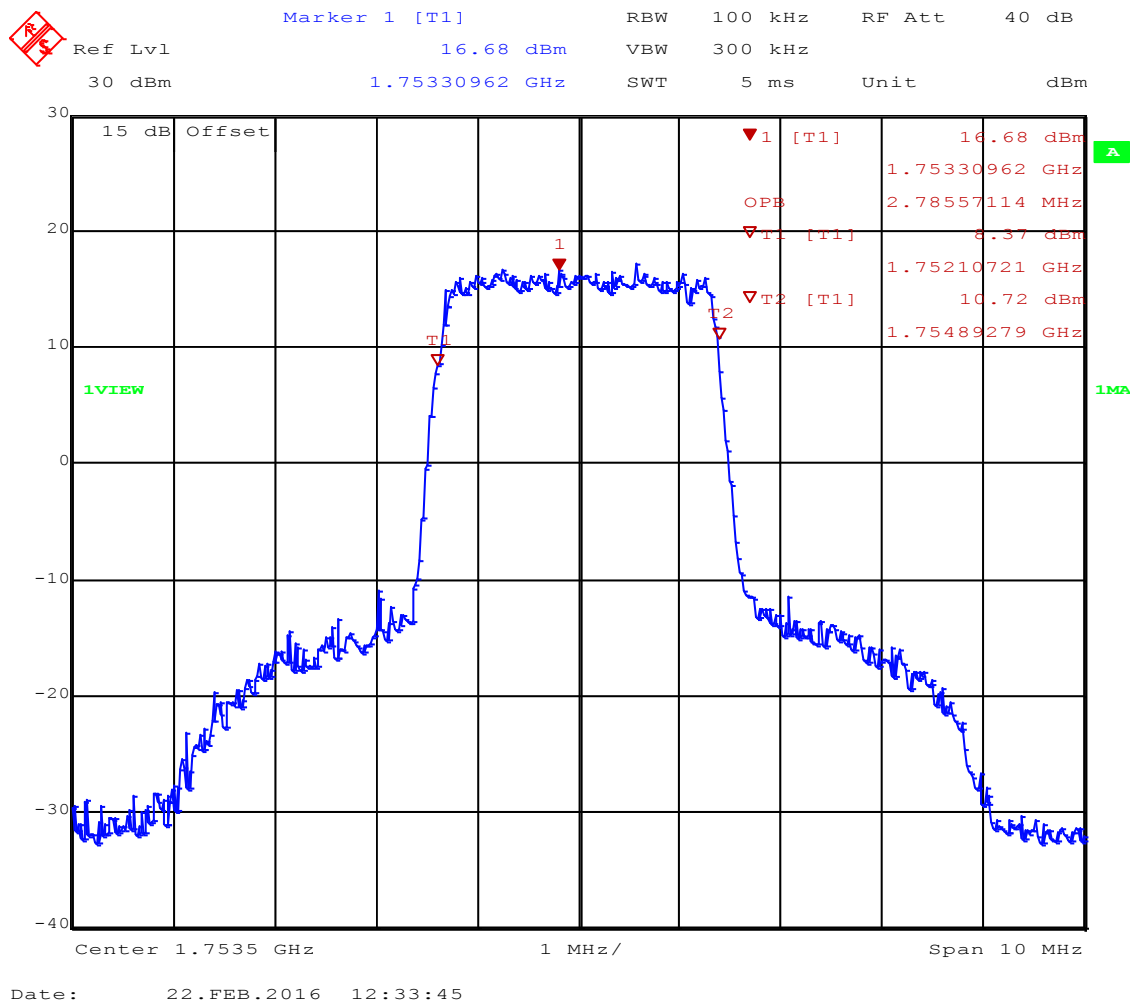
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-3 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20385 / BW: 3MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 2.785 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

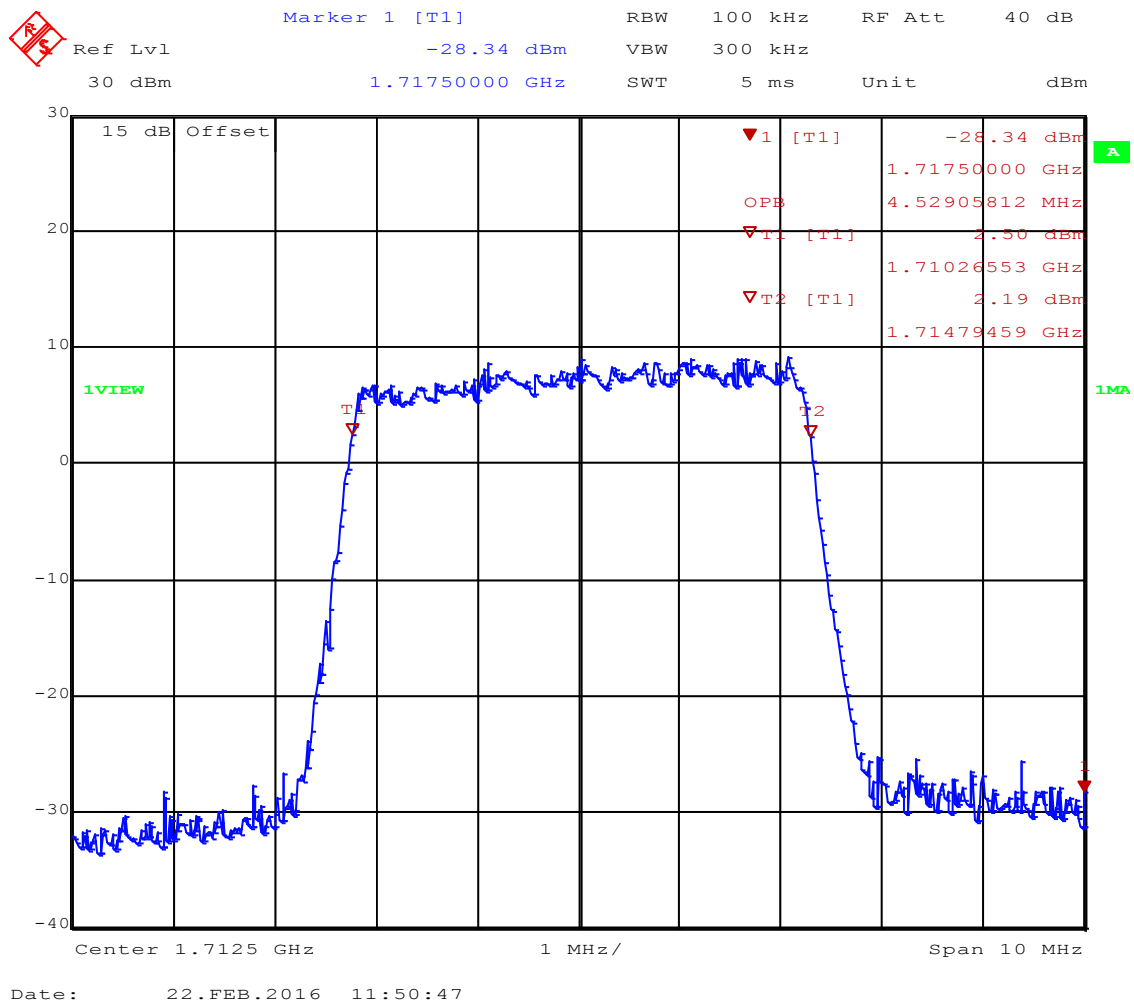
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-5 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 19975 / BW: 5MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.529 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

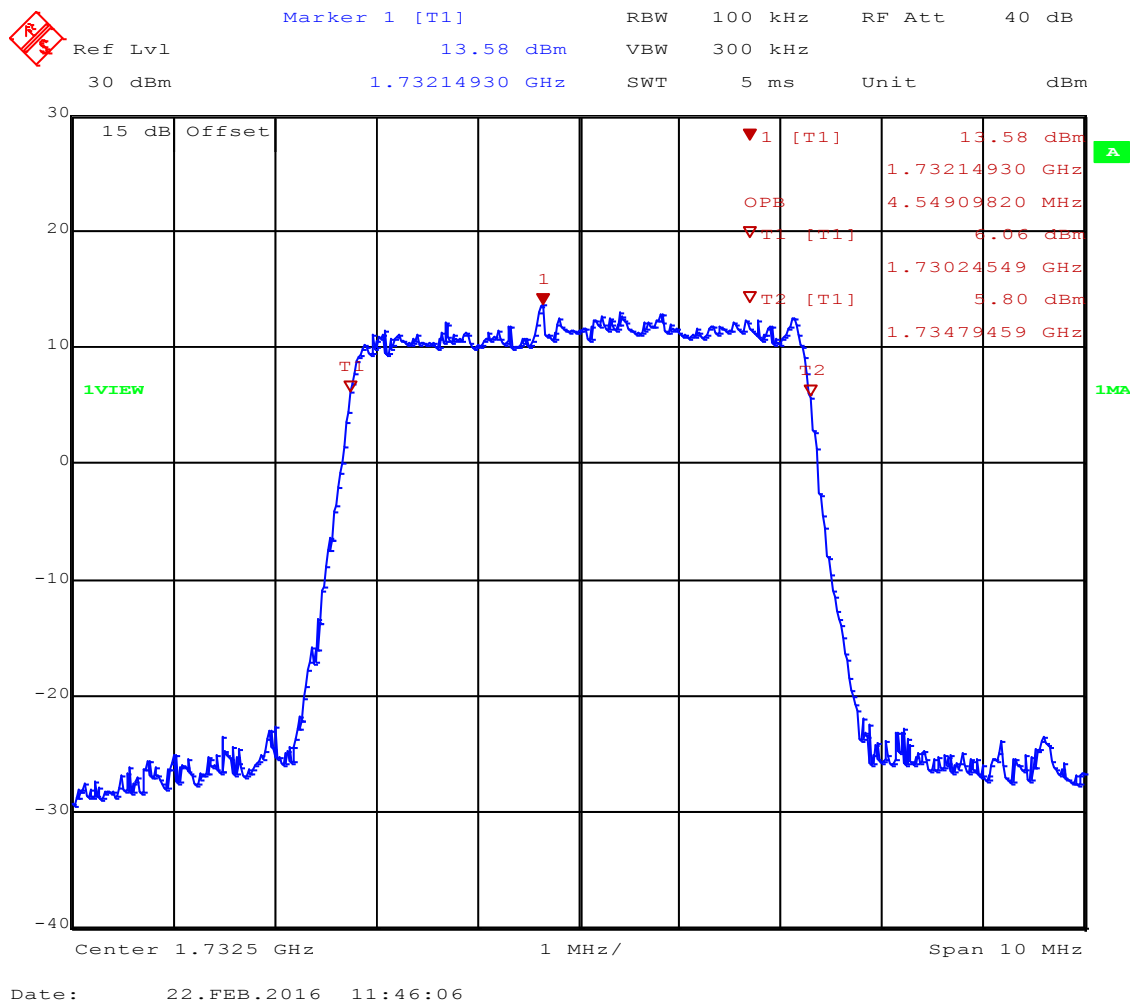
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-5 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 5MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.549 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

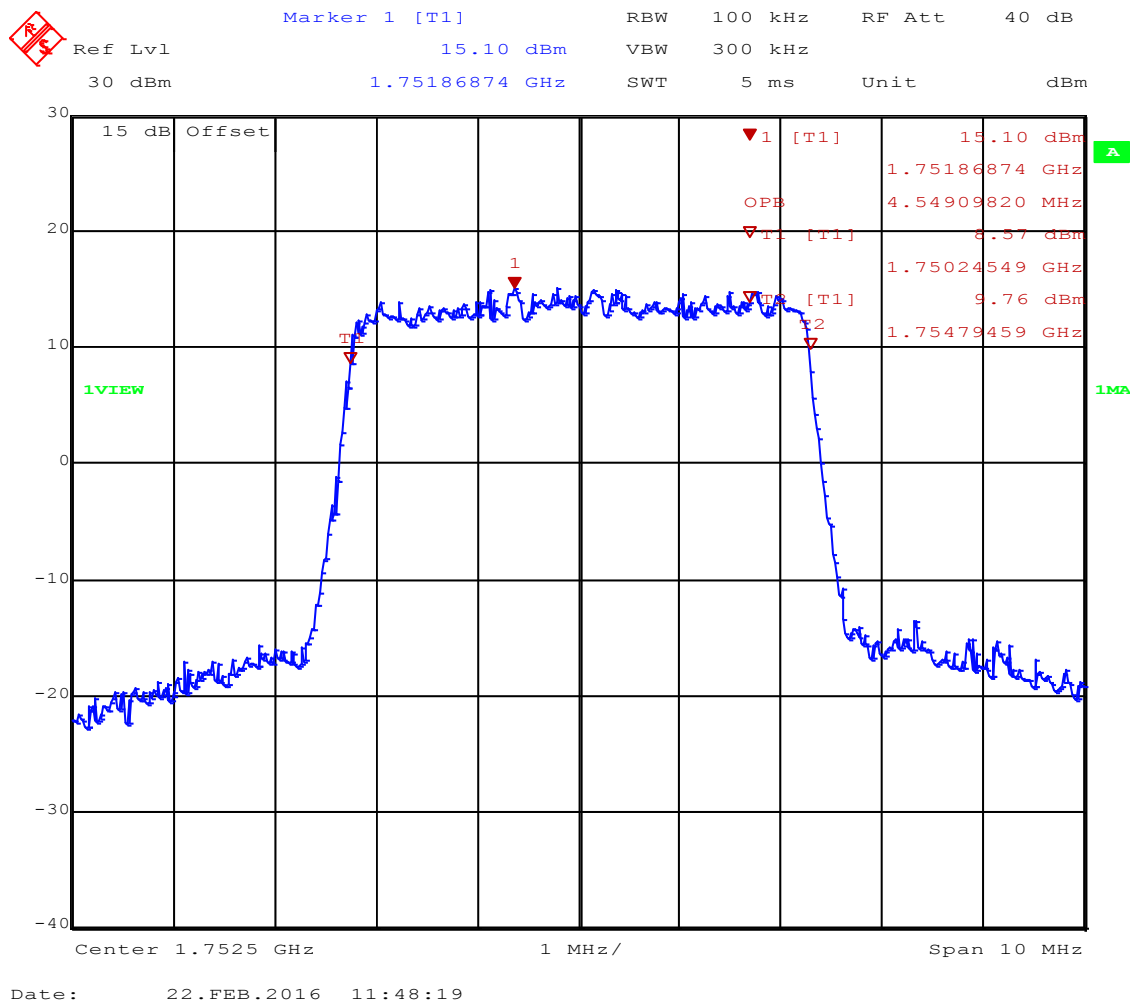
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-5 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20375 / BW: 5MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 4.549 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

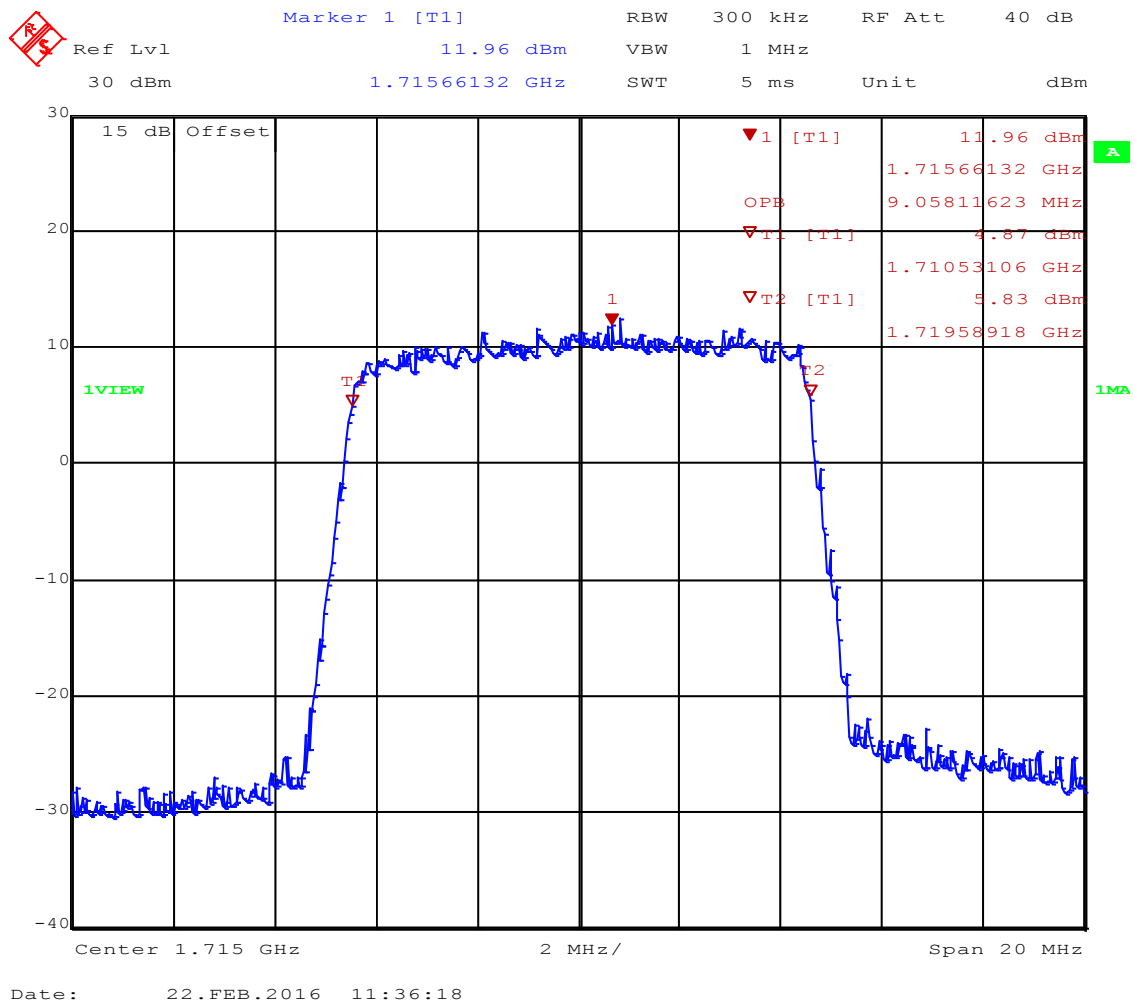
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-10 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20000 / BW: 10MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 9.058 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

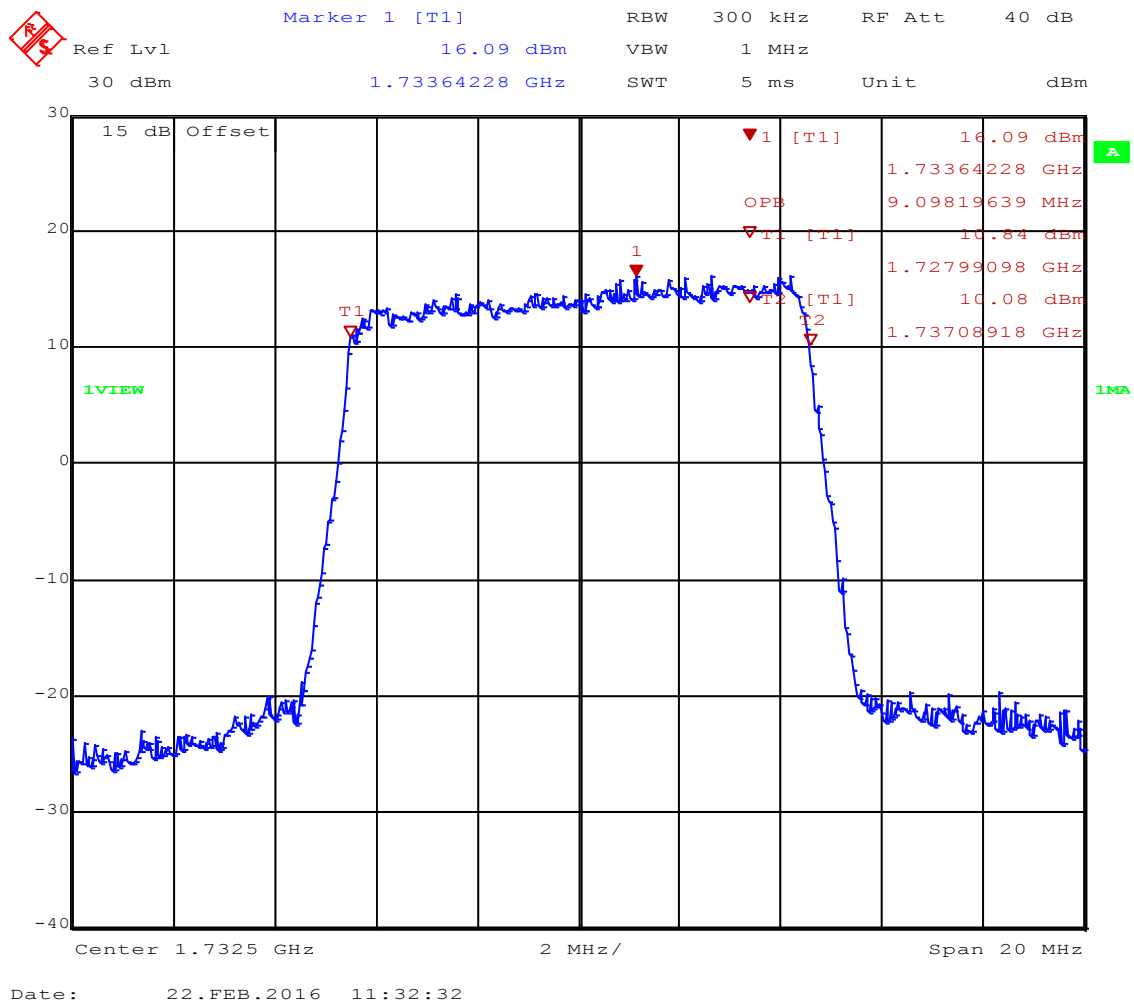
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-10 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 10MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 9.098 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

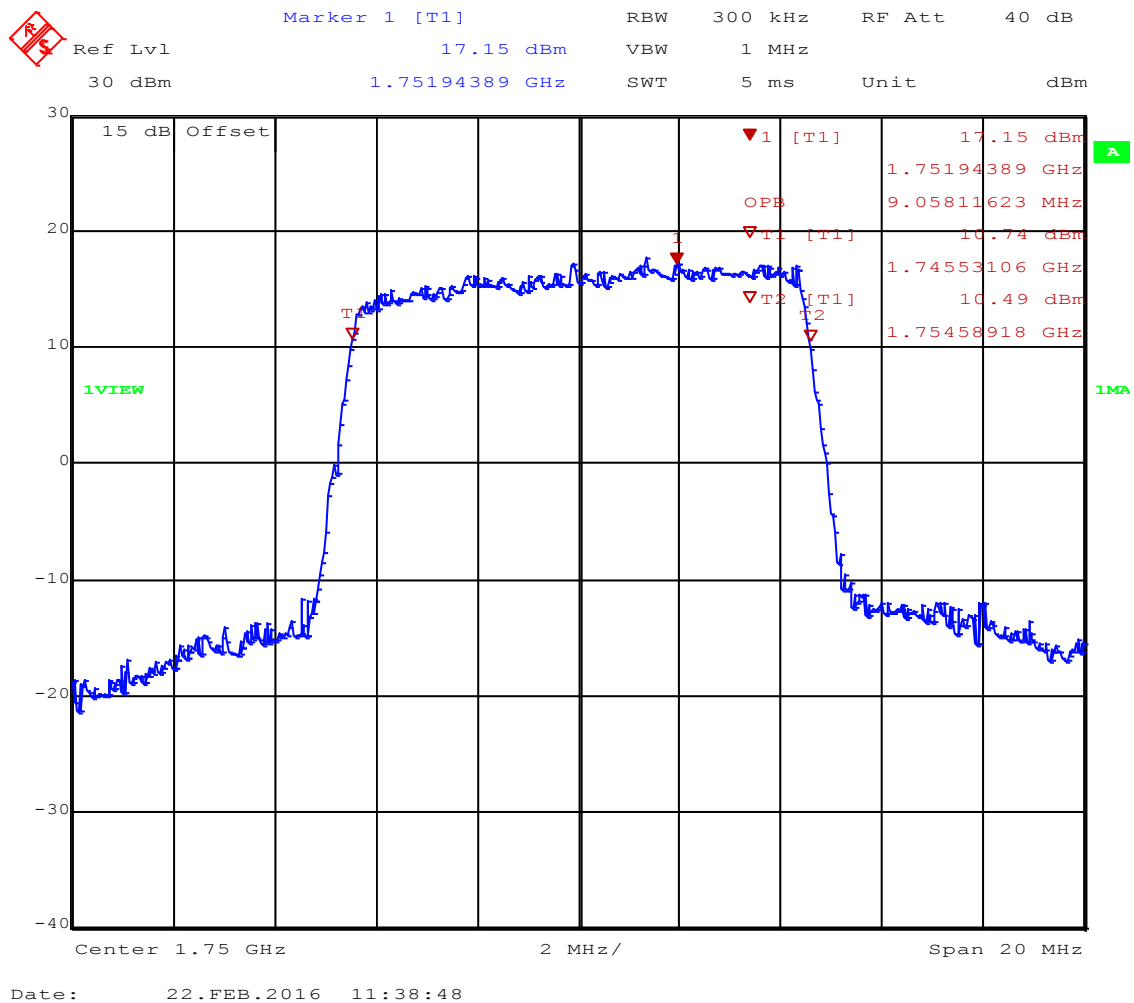
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-10 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20350 / BW: 10MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 9.058 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

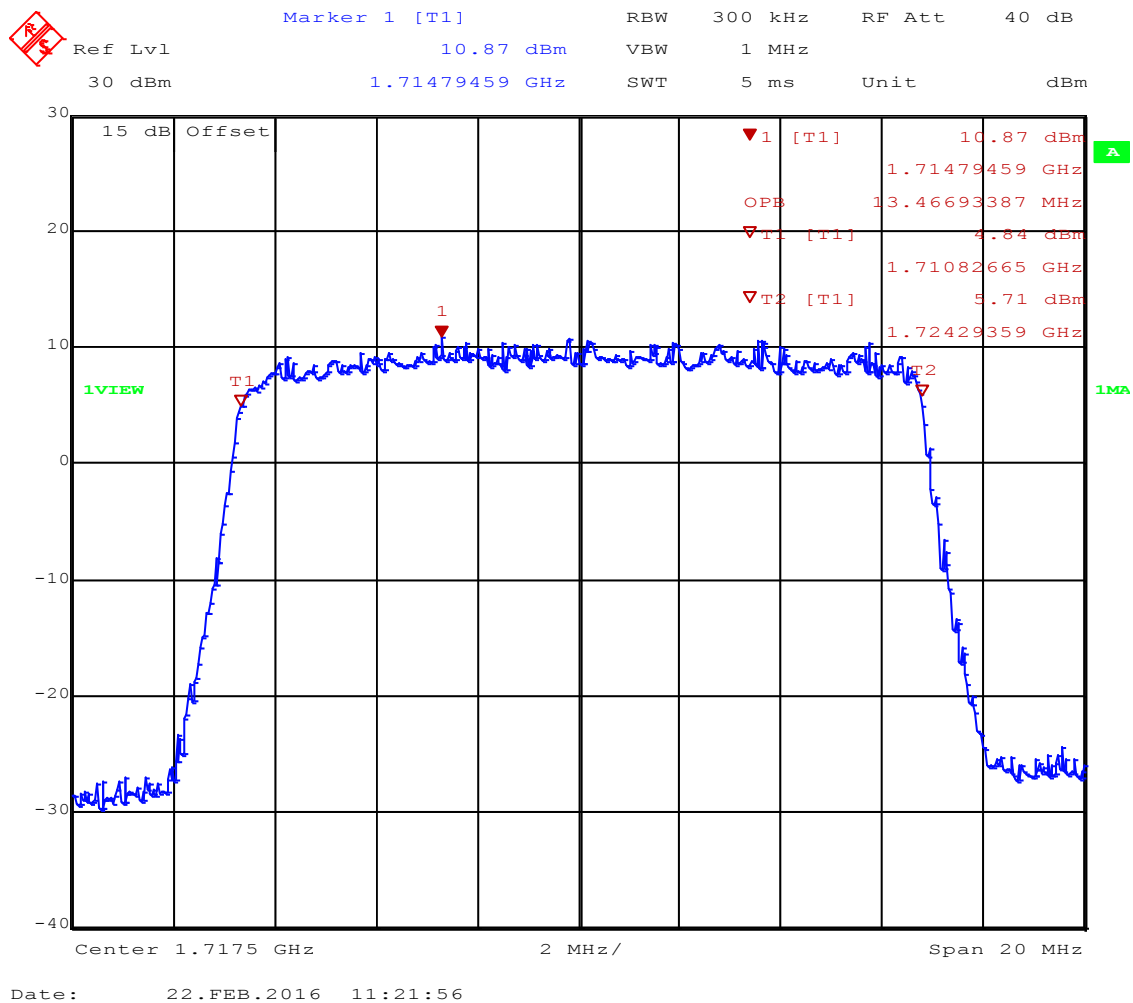
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-15 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20025 / BW: 15MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 13.467 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

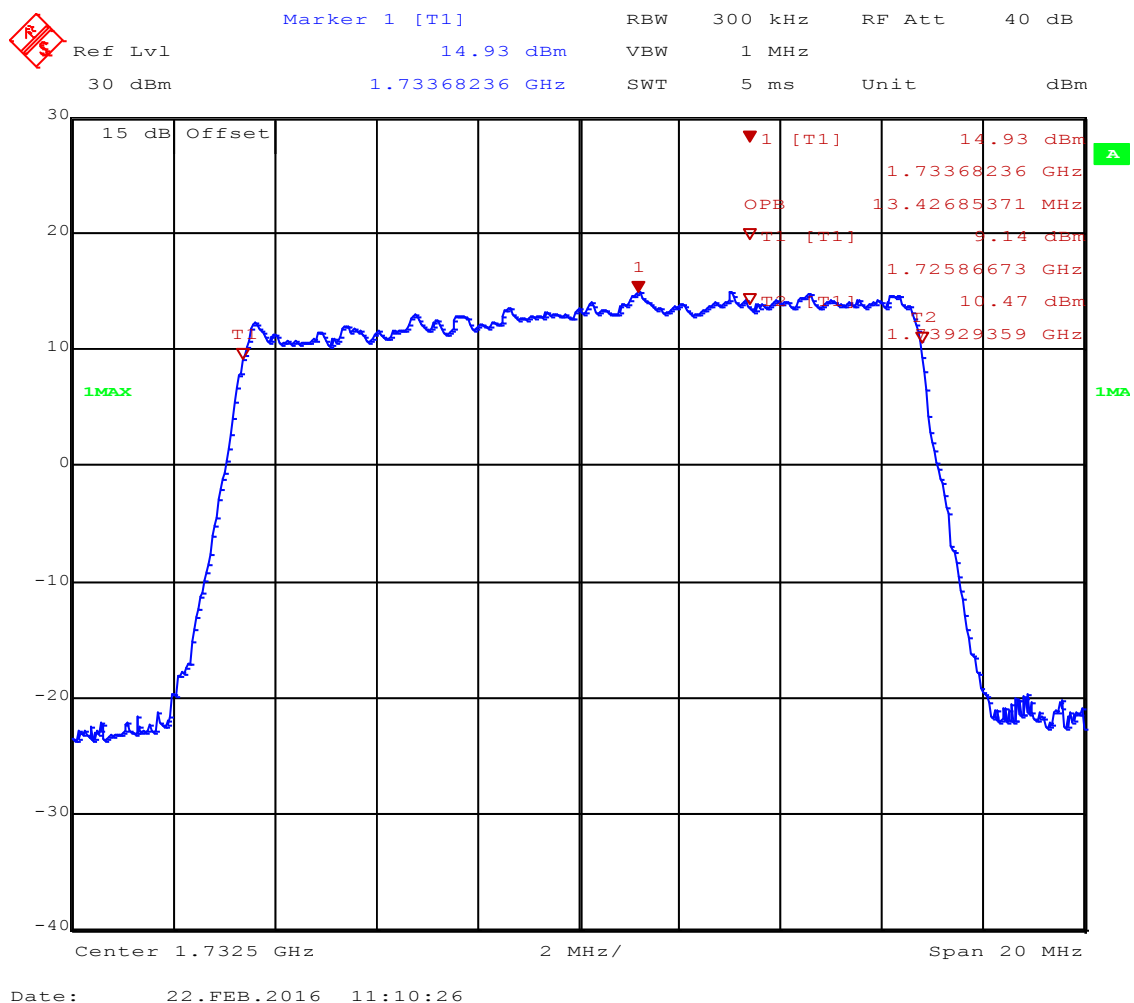
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-15 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant:	lesswire GmbH
EUT Name:	2G/3G/4G WLAN Hotspot
Model:	CCU5.3.1 (BWIA3)
Test Site:	Eurofins Product Service GmbH
Operator:	Burkhard Pudell
Test Conditions:	Tnom / Vnom
Mode:	LTE FDD 4 / CH: 20175 / BW: 15MHz; 16-QAM
Test Date:	2016-02-22
Verdict:	NONE (INFORMATION ONLY)
Note 1:	A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2:	OBW = 13.426 MHz

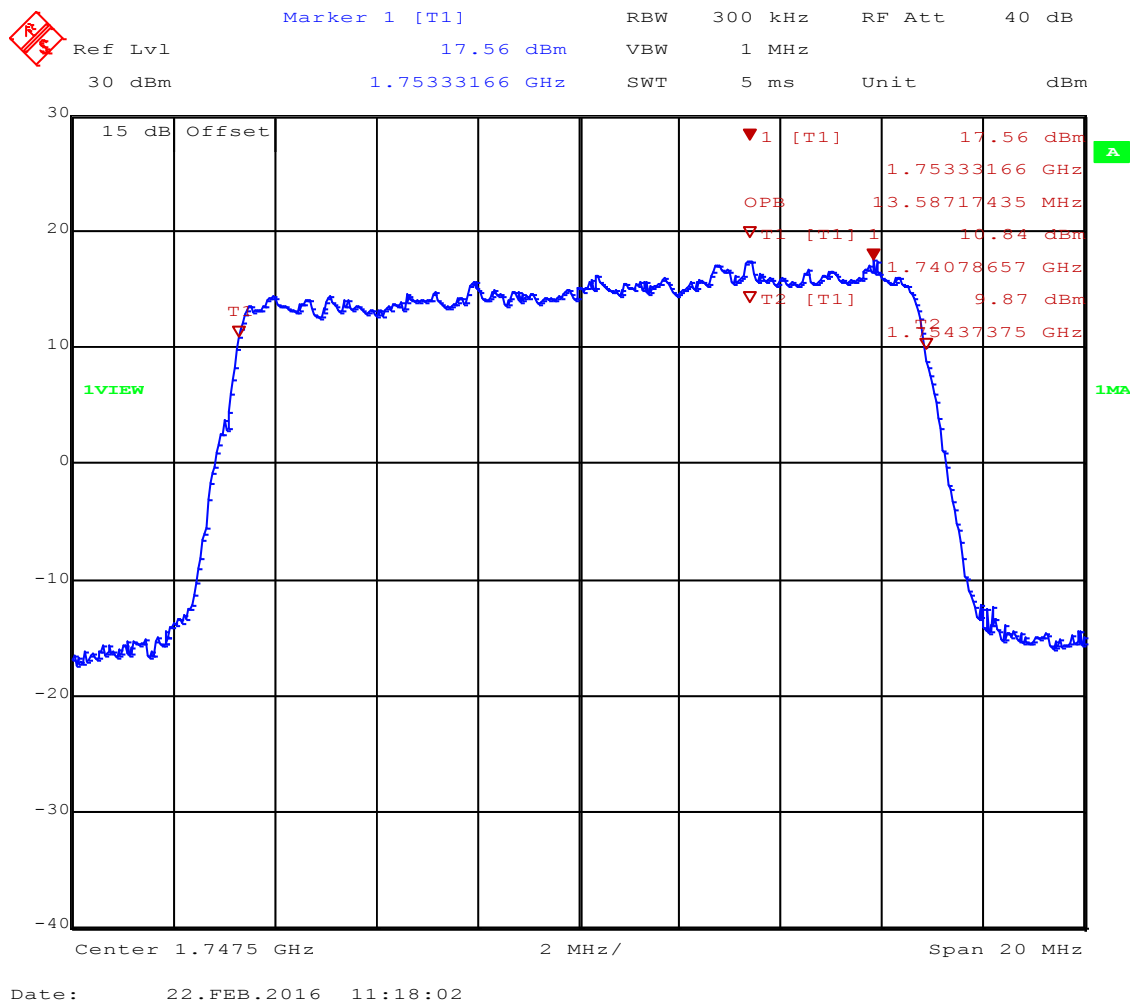


Occupied Bandwidth – LTE 4 16-QAM-15 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20325 / BW: 15MHz; 16-QAM
Test Date: 2016-02-22
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 13.587 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

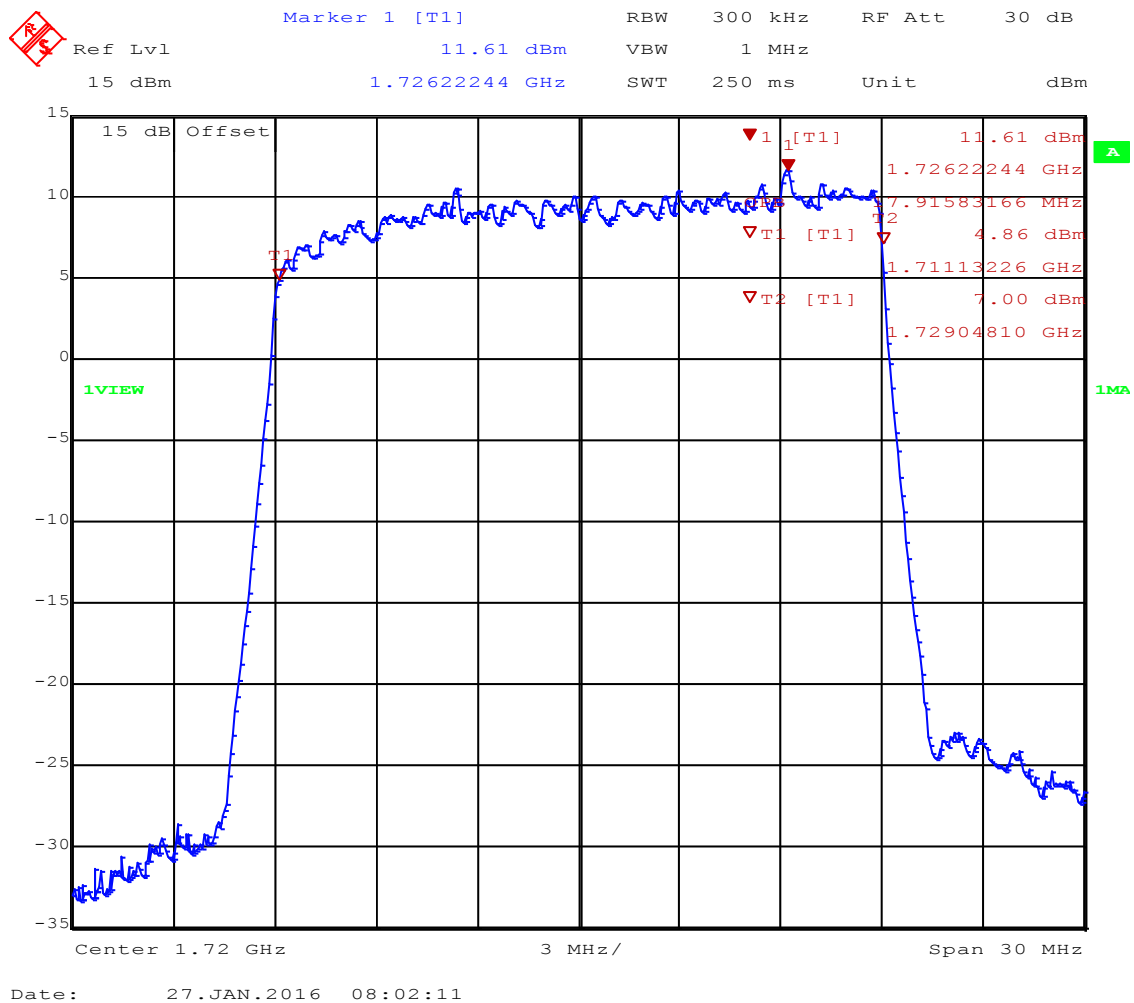
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-20 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20050 / BW: 20MHz; 16-QAM
Test Date: 2016-01-27
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 17.916 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

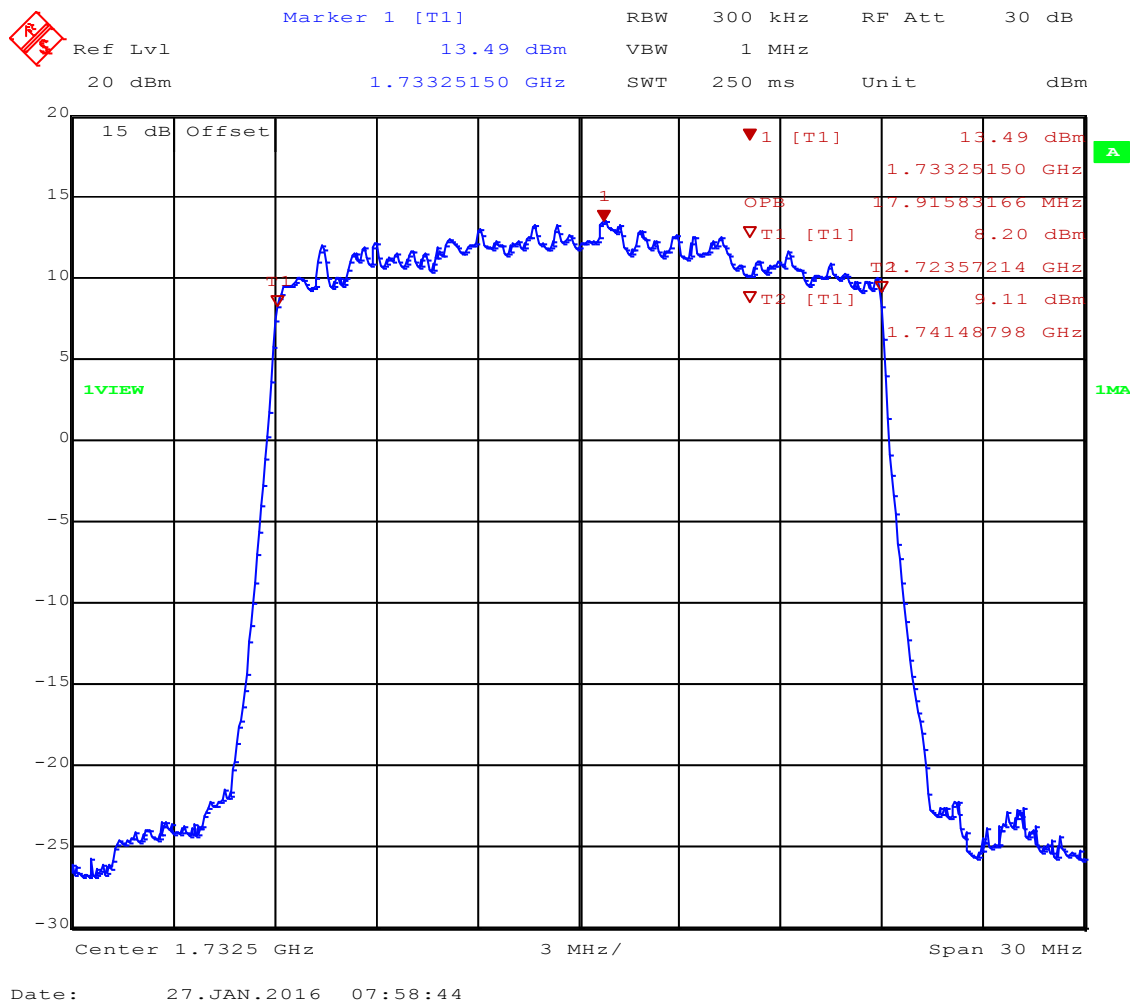
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-20 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20175 / BW: 20MHz; 16-QAM
Test Date: 2016-01-27
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 17.916 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

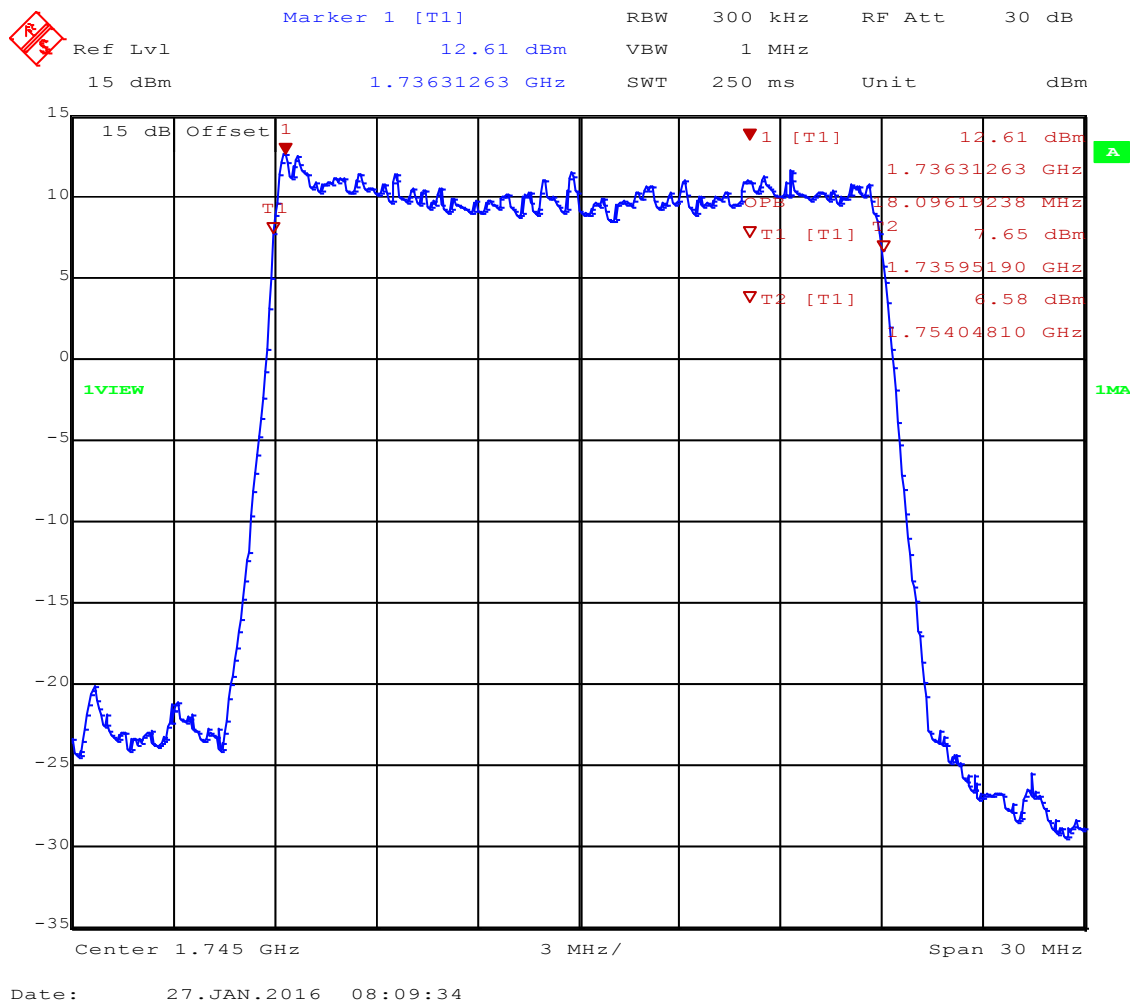
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – LTE 4 16-QAM-20 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1601-5302

Applicant: lesswire GmbH
EUT Name: 2G/3G/4G WLAN Hotspot
Model: CCU5.3.1 (BWIA3)
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: LTE FDD 4 / CH: 20300 / BW: 20MHz; 16-QAM
Test Date: 2016-01-27
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW = 18.096 MHz



Test Report No.: G0M-1601-5302-TFC227UL-V02

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.2 Test Conditions and Results – Effective radiated power / Equivalent isotropic radiated power

Radiated power acc. to FCC 27 / IC RSS-130 / IC RSS-139			Verdict: PASS
EUT requirement rule parts and clause	Reference		
	FCC § 27.50(b)(10) / FCC § 27.50(d)(4) IC RSS-130 4.4 / IC RSS-139 6.5		
Test according to measurement reference	Reference Method		
	ANSI/TIA-603-D, KDB 971168		
Test frequency range	Tested frequencies		
	F _{LOW} / F _{MID} / F _{HIGH}		
Limits			
Carrier Frequency range	Equipment type	Power limit	
777-787 MHz	Mobile transmitter	FCC : 3 Watts (34.77 dBm) e.i.r.p. IC : 5 Watts (36.99 dBm) e.i.r.p.	
1710-1755 MHz	Mobile transmitter	FCC : 1 Watts (30 dBm) e.i.r.p. IC : 1 Watts (30 dBm) e.i.r.p.	
Test setup			
</			

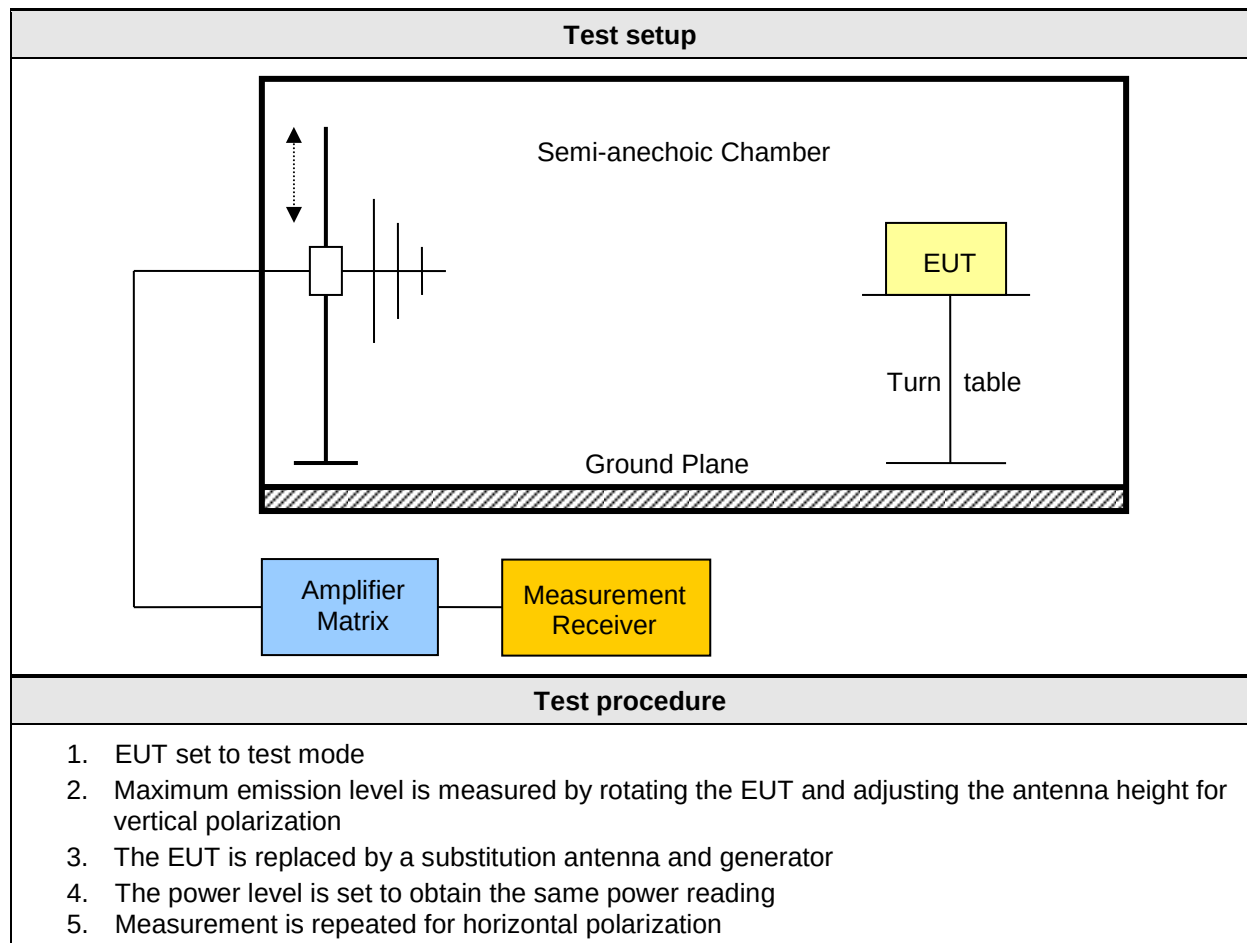
Test results – WCDMA IV E.I.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result
F _{LOW}	1712.4	HSPA	ver	15.5	30	-14.5	PASS
F _{MID}	1732.6	HSPA	ver	19.5	30	-10.5	PASS
F _{HIGH}	1752.4	HSPA	ver	18.3	30	-11.7	PASS
Test results – LTE 13 E.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result
F _{LOW}	779.5	QPSK 5	hor	22.6	34.77	-12.17	PASS
F _{MID}	782.0	QPSK 5	hor	21.6	34.77	-13.17	PASS
F _{HIGH}	784.5	QPSK 5	hor	20.8	34.77	-13.97	PASS
F _{MID}	782.0	QPSK 10	hor	20.6	34.77	-14.17	PASS
F _{LOW}	779.5	16-QAM 5	hor	20.8	34.77	-13.97	PASS
F _{MID}	782.0	16-QAM 5	hor	20.7	34.77	-13.87	PASS
F _{HIGH}	784.5	16-QAM 5	hor	19.8	34.77	-12.97	PASS
F _{MID}	782.0	16-QAM 10	hor	20.1	34.77	-22.25	PASS
Test results – LTE 13 E.I.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result
F _{LOW}	779.5	QPSK 5	hor	24.75	36.99	-12.24	PASS
F _{MID}	782.0	QPSK 5	hor	23.75	36.99	-13.24	PASS
F _{HIGH}	784.5	QPSK 5	hor	22.95	36.99	-14.04	PASS
F _{MID}	782.0	QPSK 10	hor	22.75	36.99	-14.24	PASS
F _{LOW}	779.5	16-QAM 5	hor	22.95	36.99	-14.04	PASS
F _{MID}	782.0	16-QAM 5	hor	22.85	36.99	-13.94	PASS
F _{HIGH}	784.5	16-QAM 5	hor	21.95	36.99	-15.04	PASS
F _{MID}	782.0	16-QAM 10	hor	22.25	36.99	-14.74	PASS
Comments:							

Test results – LTE 4 E.I.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result
F _{LOW}	1710.7	QPSK 1.4	ver	22.1	30	-7.9	PASS
F _{MID}	1732.5	QPSK 1.4	ver	22.3	30	-7.7	PASS
F _{HIGH}	1754.3	QPSK 1.4	ver	23.7	30	-6.3	PASS
F _{LOW}	1711.5	QPSK 3	ver	23.4	30	-6.6	PASS
F _{MID}	1732.5	QPSK 3	ver	23.3	30	-6.7	PASS
F _{HIGH}	1753.5	QPSK 3	ver	24.3	30	-5.7	PASS
F _{LOW}	1712.5	QPSK 5	ver	24.2	30	-5.6	PASS
F _{MID}	1732.5	QPSK 5	ver	24.6	30	-5.4	PASS
F _{HIGH}	1752.5	QPSK 5	ver	26.9	30	-3.1	PASS
F _{LOW}	1715.0	QPSK 10	ver	22.8	30	-7.2	PASS
F _{MID}	1732.5	QPSK 10	ver	23.7	30	-6.3	PASS
F _{HIGH}	1750.0	QPSK 10	ver	23.8	30	-6.2	PASS
F _{LOW}	1717.5	QPSK 15	ver	23.5	30	-6.5	PASS
F _{MID}	1732.5	QPSK 15	ver	23.6	30	-6.4	PASS
F _{HIGH}	1747.5	QPSK 15	ver	25.7	30	-4.3	PASS
F _{LOW}	1720.0	QPSK 20	ver	26.6	30	-3.4	PASS
F _{MID}	1732.5	QPSK 20	ver	25.6	30	-4.4	PASS
F _{HIGH}	1745.0	QPSK 20	ver	27.4	30	-2.6	PASS
Comments:							

Test results – LTE 4 E.I.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result
F _{LOW}	1710.7	16-QAM 1.4	ver	22.6	30	-7.4	PASS
F _{MID}	1732.5	16-QAM 1.4	ver	22.6	30	-7.4	PASS
F _{HIGH}	1754.3	16-QAM 1.4	ver	23.7	30	-6.3	PASS
F _{LOW}	1711.5	16-QAM 3	ver	23.5	30	-6.5	PASS
F _{MID}	1732.5	16-QAM 3	ver	22.6	30	-7.4	PASS
F _{HIGH}	1753.5	16-QAM 3	ver	24.0	30	-6.0	PASS
F _{LOW}	1712.5	16-QAM 5	ver	24.9	30	-5.1	PASS
F _{MID}	1732.5	16-QAM 5	ver	25.3	30	-4.7	PASS
F _{HIGH}	1752.5	16-QAM 5	ver	26.5	30	-3.5	PASS
F _{LOW}	1715.0	16-QAM 10	ver	23.8	30	-6.2	PASS
F _{MID}	1732.5	16-QAM 10	ver	25.4	30	-4.7	PASS
F _{HIGH}	1750.0	16-QAM 10	ver	25.6	30	-4.4	PASS
F _{LOW}	1717.5	16-QAM 15	ver	24.6	30	-5.4	PASS
F _{MID}	1732.5	16-QAM 15	ver	25.0	30	-5.0	PASS
F _{HIGH}	1747.5	16-QAM 15	ver	26.9	30	-3.1	PASS
F _{LOW}	1720.0	16-QAM 20	ver	26.9	30	-3.1	PASS
F _{MID}	1732.5	16-QAM 20	ver	25.7	30	-4.3	PASS
F _{HIGH}	1745.0	16-QAM 20	ver	27.5	30	-2.5	PASS
Comments:							

3.3 Test Conditions and Results – Transmitter radiated emissions

Transmitter radiated power acc. to FCC 27 / IC RSS-130 / IC RSS-139					Verdict: PASS
Test according referenced standards		Reference Method			
		FCC § 27.53(c), FCC § 27.53(h) IC RSS-130 4.6, IC RSS-139 6.6			
Test according to measurement reference		Reference Method			
		ANSI/TIA-603-D, KDB 971168			
Test frequency range		Tested frequencies			
		30 MHz – 10 th Harmonic			
Limits					
Region	Operating Frequency range [MHz]	Type	Frequency Range [MHz]	Bandwidth [kHz]	Limit [dBm]
FCC	776-788	Mobile	10 - 763	100	43 + 10 · log ₁₀ (P) [dB] = -13
			763 - 775	6.25	65 + 10 · log ₁₀ (P) [dB] = -35
			775 – 775.9	100	43 + 10 · log ₁₀ (P) [dB] = -13
			775.9 – 776	30	43 + 10 · log ₁₀ (P) [dB] = -13
			788 – 788.1	30	43 + 10 · log ₁₀ (P) [dB] = -13
			788.1 – 793	100	43 + 10 · log ₁₀ (P) [dB] = -13
			793 – 805	6.25	65 + 10 · log ₁₀ (P) [dB] = -35
			805 – 10 th harmonic	100	43 + 10 · log ₁₀ (P) [dB] = -13
ISED	777-787	Mobile	10 - 763	100	43 + 10 · log ₁₀ (P) [dB] = -13
			763 - 775	6.25	65 + 10 · log ₁₀ (P) [dB] = -35
			775 – 776.9	100	43 + 10 · log ₁₀ (P) [dB] = -13
			776.9 – 777	30	43 + 10 · log ₁₀ (P) [dB] = -13
			787 – 787.1	30	43 + 10 · log ₁₀ (P) [dB] = -13
			788.1 – 793	100	43 + 10 · log ₁₀ (P) [dB] = -13
			793 – 806	6.25	65 + 10 · log ₁₀ (P) [dB] = -35
			806 – 1559	100	43 + 10 · log ₁₀ (P) [dB] = -13
			1559 – 1610	100	Wideband: -70 dBW/MHz Discrete, <700 Hz: -80 dBW
			1610 – 10 th harmonic	100	43 + 10 · log ₁₀ (P) [dB] = -13
FCC ISED	1710-1755	Mobile	10 – 1709	1000	43 + 10 · log ₁₀ (P) [dB] = -13
			1709 – 1710	1 % of EBW	43 + 10 · log ₁₀ (P) [dB] = -13
			1755 – 1756	1 % of EBW	43 + 10 · log ₁₀ (P) [dB] = -13
			1756 - 10 th harmonic	1000	43 + 10 · log ₁₀ (P) [dB] = -13



Test results – WCDMA IV							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
F _{LOW}	1712.4	HSPA	No significant spurious emissions				
F _{MID}	1732.6	HSPA					
F _{HIGH}	1752.4	HSPA					
Test results – LTE 13							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
F _{LOW}	779.5	BW: 10MHz; #RB: 50-0	774.626	-44.2	ver	-35	-9.21
F _{LOW}	779.5	BW: 10MHz; #RB: 50-0	774.932	-48.1	hor	-35	-13.11
F _{MID}	782.0	BW: 10MHz; #RB: 50-0	774.422	-45.60	ver	-35	-10.59
F _{MID}	782.0	BW: 10MHz; #RB: 50-0	788.442	-40.50	ver	-35	-05.53
F _{MID}	782.0	BW: 10MHz; #RB: 50-0	775.000	-41.60	hor	-35	-06.64
F _{MID}	782.0	BW: 10MHz; #RB: 50-0	788.918	-43.90	hor	-35	-08.91
F _{HIGH}	784.5	BW: 10MHz; #RB: 50-0	788.068	-41.90	ver	-35	-06.85
F _{HIGH}	784.5	BW: 10MHz; #RB: 50-0	788.523	-45.70	hor	-35	-10.65
Test results – LTE 4							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
F _{LOW}	1720.0	BW: 20MHz; #RB:100	1710	-28.40	ver	-13.00	-15.36
F _{MID}	1732.5	No significant spurious emissions					
F _{HIGH}	1745.0	BW: 20MHz; #RB:100	1755	-24.60	ver	-13.00	-11.64
F _{HIGH}	1745.0	BW: 20MHz; #RB:100	1755	-25.30	hor	-13.00	-12.34
Comments:							

Test procedure							
1. EUT set to receive mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth below 1GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1MHz with peak/average detector is used above 1GHz 4. Markers are set to peak emission levels							
Test results							
Channel	Frequency [MHz]	Emission [MHz]	Emission Level [dbμV/m]	Emission Level [μV/m]	Det.	Limit [μV/m]	Margin [μV/m]
F _{MID} WCDMA IV	2132.6	No significant spurious emissions					
F _{MID} LTE 4	2132.5	No significant spurious emissions					
F _{MID} LTE 13	751.0	No significant spurious emissions					
Comments: * Physical distance between EUT and measurement antenna. ** Emission level corresponds to ambient noise floor							