



TESTING CERT #3478.01



TEST REPORT

EUT Description	GSM, W-CDMA and LTE Cellular adapter card
Brand Name	Intel
Model Name	7262M2WW
Serial Number	IMEI: 004402523022105 / 004402523021818 / 004402523022303 / 004402523024945 / 004402523014110 / 004402523024556 / 004402523013260 / 004402523023640 / 014310000016235 / 014310000016219 (see section 4)
FCC/IC ID	FCC ID: PD97262W2 / IC ID: 1000M-7262W2
Antenna type	Dipole, Pulse, Part Number SPDA24700/2700
Hardware Version	HW PR2.5 / HVIN: 7262M2W2
Software Version	SW:1523 / FVIN: PR2.5
Date of Sample Receipt	2015-07-01
End of test Date	2015-07-01
Features	2G: GSM/GPRS/EDGE 850 / 1900 3G: WCDMA/HSPA/DC-HSDPA FDD II / IV / V 4G: LTE-FDD 2, 4, 5,7,12,13, 17, 26, 30 (see section 5)

Applicant	Intel Mobile Communication
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Reference Standards	FCC CFR Title 47 Part 2, 22, 24, 27 RSS 130 issue 1, RSS 132 issue 3, RSS 133 issue 6, RSS 139 issue 2, RSS-195 issue 2, RSS 199 issue 2, RSS Gen issue 4 (see section 1)
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Test Report number	15070102.TR02
Revision Control	Rev. 01

The test results relate only to the samples tested.
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_____ Issued by _____ Reviewed by _____ Approved by _____

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1. Standards, reference documents and applicable test methods

1. FCC 47 CFR part 2 - Subpart J - EQUIPMENT AUTHORIZATION PROCEDURES.
2. FCC 47 CFR part 22 - Subpart H - Cellular Radiotelephone Service.
3. FCC 47 CFR part 24 – Subpart E - Broadband PCS.
4. FCC 47 CFR part 27 – Subpart L - 1695-1710, 1710-1755 MHz, 1755-1780 MHz, 2110-2155 MHz, 2155-2180 MHz, 2180-2200 MHz Bands.
5. FCC 47 CFR part 90 – Subpart S – Regulations governing licensing and use of frequencies in the 806-824, 851-869, 896-901, AND 935-940 MHz bands.
6. FCC OET KDB 971168 D01 v02r02 Measurement guidance for certification of licensed digital transmitters.
7. RSS-Gen issue 4 - General Requirements for Compliance of Radio Apparatus.
8. RSS130 issue 1 - Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands 698-756 MHz and 777-787 MHz
9. RSS 132 issue 3 - Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz.
10. RSS 133 issue 6 - 2 GHz Personal Communications Services.
11. RSS 139 issue 2 - Advanced Wireless Services Equipment Operating in the Bands 1710–1755 MHz and 2110–2155 MHz.
12. RSS-195 issue 2 - Wireless Communication Service (WCS) Equipment Operating in the Bands 2305-2320 MHz and 2345-2360 MHz
13. TIA 603 - D June 2010 Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.
14. ANSI C63.4-2009 - American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

2. General conditions, competences and guarantees

- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a testing laboratory accredited by the American Association for Laboratory Accreditation (A2LA).
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm listed by the FCC, with Designation Number FR0011.
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by IC, with IC Assigned Code 1000Y.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.
- ✓ Complete or partial reproduction of the report cannot be made without written permission of Intel WRF Lab.

3. Environmental Conditions

- ✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	22°C ± 2°C
Humidity	45% ± 2%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of reception	Note
#01	15070102.S01	Module	7262M2WW	014310000016235	2015-07-01	Used for conducted tests
	15070102.S05	Extender Board	SB0NFF2BK0F	NA	2015-07-01	
#02	15070102.S02	Module	7262M2WW	014310000016219	2015-07-01	Used for radiated tests
	14112401.S07	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
	14112401.S08	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
	15070102.S06	Extender Board	SB0NFF 2B00C	NA	2015-07-01	
#03		Module	7262M2WW	004402523022303		Used for subcontracted results
		Extender Board	SB0NFF 2B00C	NA		
#02	14112501.S02	Module	7262M2WW	004402523022105	2014-11-25	Used for conducted tests
	14112401.S09	Extender	NGFF Carrier board Rev 2.0	NA	2014-11-25	
#03	14112401.S03	Module	7262M2WW	004402523021818	2014-11-24	Used for radiated tests
	14112401.S07	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
	14112401.S08	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
	14112401.S06	Extender	NGFF Carrier board Rev 2.0	NA	2014-11-24	
#04		Module	7262M2WW	004402523022303		Used for subcontracted results
		Extender	NGFF Carrier board Rev 2.0	NA		
#01	14112501.S05	Module	7262M2WW	004402523024945	2015-01-12	Used for conducted tests
	14112501.S10	Module	7262M2WW	004402523014110	2015-02-10	
	14112401.S09	Extender	NGFF Carrier board Rev 1.1	NA	2014-11-25	
#02	14112401.S04	Module	7262M2WW	004402523024556	2014-11-24	Used for radiated tests
	14112401.S07	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
	14112401.S08	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
#04	15021011.S11	Module	7262M2WW	004402523013260	2015-02-10	Used for radiated tests
	14112401.S07	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
	14112401.S08	Antenna	Pulse SPDA24700/2700	NA	2014-11-24	
#05	44937/001	Module	7262M2WW	004402523023640	2015-01-21	Used for subcontracted results
	43903B/001	Extender	NGFF Carrier board Rev 2.0	NA	2014-09-30	

NA: Not Applicable

5. EUT features

These are the detailed bands and modes supported by the Equipment Under Test:

GSM / GPRS / EDGE	GSM 850 (824.0 – 849.0 MHz) PCS 1900 (1850.0 – 1910.0 MHz)
WCDMA / HSPA+	FDD II (1850.0 – 1910.0 MHz) FDD IV (1710.0 – 1755.0 MHz) FDD V (824.0 – 849.0 MHz)
LTE FDD	Band 2 (1850.0 – 1910.0 MHz) Band 4 (1710.0 – 1755.0 MHz) Band 5 (824.0 – 849.0 MHz) Band 7 (2500 – 2570 MHz) Band 12 (699 – 716 MHz) Band 13 (777 – 787 MHz) Band 17 (704.0 – 716.0 MHz) Band 26 (814 – 849 MHz) Band 30 (2305 – 2315 MHz)

Emission designator for IC cert:

LTE emission designator

Band	Type of modulation	
	QPSK	16QAM
LTE Band 2, Bandwidth 1.4MHz	1M10G7D	1M10W7D
LTE Band 2, Bandwidth 3MHz	2M73G7D	2M73W7D
LTE Band 2, Bandwidth 5MHz	4M53G7D	4M52W7D
LTE Band 2, Bandwidth 10MHz	9M01G7D	9M02W7D
LTE Band 2, Bandwidth 15MHz	13M5G7D	13M4W7D
LTE Band 2, Bandwidth 20MHz	17M9G7D	17M9W7D
LTE Band 4, Bandwidth 1.4MHz	1M11G7D	1M11W7D
LTE Band 4, Bandwidth 3MHz	2M73G7D	2M72W7D
LTE Band 4, Bandwidth 5MHz	4M53G7D	4M51W7D
LTE Band 4, Bandwidth 10MHz	9M04G7D	9M02W7D
LTE Band 4, Bandwidth 15MHz	13M57G7D	13M51W7D
LTE Band 4, Bandwidth 20MHz	17M87G7D	17M9W7D
LTE Band 5, Bandwidth 1.4MHz	1M10G7D	1M10W7D
LTE Band 5, Bandwidth 3MHz	2M74G7D	2M73W7D
LTE Band 5, Bandwidth 5MHz	4M51G7D	4M51W7D
LTE Band 5, Bandwidth 10MHz	9M04G7D	9M03W7D

Band	Type of modulation	
	QPSK	16QAM
LTE Band 7, Bandwidth 5MHz	4M51G7D	4M51W7D
LTE Band 7, Bandwidth 10MHz	9M04G7D	9M02W7D
LTE Band 7, Bandwidth 15MHz	13M6G7D	13M5W7D
LTE Band 7, Bandwidth 20MHz	17M9G7D	17M9W7D
LTE Band 12, Bandwidth 1.4MHz	1M11G7D	1M10W7D
LTE Band 12, Bandwidth 3MHz	2M74G7D	2M73W7D
LTE Band 12, Bandwidth 5MHz	4M50G7D	4M51W7D
LTE Band 12, Bandwidth 10MHz	9M03G7D	9M04W7D
LTE Band 13, Bandwidth 5MHz	4M51G7D	4M51W7D
LTE Band 13, Bandwidth 10MHz	8M99G7D	8M98W7D
LTE Band 17, Bandwidth 5MHz	4M52G7D	4M54W7D
LTE Band 17, Bandwidth 10MHz	9M05G7D	9M02W7D
LTE Band 26, Bandwidth 1.4MHz	1M10G7D	1M10W7D
LTE Band 26, Bandwidth 3MHz	2M72G7D	2M73W7D
LTE Band 26, Bandwidth 5MHz	4M51G7D	4M52W7D
LTE Band 26, Bandwidth 10MHz	9M05G7D	9M04W7D
LTE Band 30, Bandwidth 5MHz	4M51G7D	4M54W7D
LTE Band 30, Bandwidth 10MHz	9M01G7D	9M02W7D

6. Remarks and comments

1. The frequency stability test results, detailed in Annex C, were performed at AT4 wireless S.A., PTA – C/ Severo Ochoa 2, 29590, Málaga, SPAIN.
2. According to Applicants declaration, HW of LTE band 2 has been modified and HW of LTE band 41 has been removed on EUT HW PR2.5. However, between the EUT version HW PR2.0, SW 1445, EUT version HW PR2.1 SW 1449 and EUT version HW PR2.3, SW 1509 there are no differences regarding the LTE band 4, 5, 7, 12, 13, 17, 26 and 30.

7. Test Verdicts summary

Mode	Band	FCC part	RSS part	Test name	Verdict
LTE	2	2.1046	-	Conducted output power	P
		24.238	-	Emission bandwidth 26dB	P
		24.232	133-ch6.4	Equivalent isotropic radiated power	P
		2.1049	-	Occupied bandwidth 99%	P
		24.232	133-ch6.4	Peak to average ratio	P
		24.235, 2.1055	133-ch.6.3	Frequency Stability	P
		24.238	133-ch.6.5.1	Conducted band-edge	P
		24.238	133-ch.6.5.1	Conducted spurious emission	P
		24.238	133-ch.6.5.1	Radiated spurious emission	P
LTE	4	2.1046	-	Conducted output power	P
		27.53	139-ch2.3	Emission bandwidth 26dB	P
		27.50	139-ch.6.4	Equivalent isotropic radiated power	P
		2.1049	-	Occupied bandwidth 99%	P
			139-ch.6.4	Peak to average ratio	P
		27.54, 2.1055	139-ch.6.3	Frequency Stability	P
		27.53, 2.1051	139-ch.6.5	Conducted band-edge	P
		27.53	139-ch.6.5,	Conducted spurious emission	P
		27.53, 2.1053	139-ch.6.5	Radiated spurious emission	P
LTE	5	2.1046	-	Conducted output power	P
		2.1049	-	Occupied bandwidth (99%)	P
		22.917	-	Occupied bandwidth (26dB)	P
		22.355, 2.1055	RSS-132-ch.5.3	Frequency Stability	P
		22.917, 2.1051	RSS-132-ch.5.5	Band Edge conducted emission	P
		22.917, 2.1051	RSS-132-ch.5.5	Spurious emission	P
		22.913	RSS-132-ch.5.4	Effective radiated power	P
		22.917, 2.1053	RSS.132-ch.5.5	Radiated spurious emission	P
			RSS-132-ch.5.4	Peak-to-average power ratio	P
		2.1046	RSS-132-ch.5.3	Conducted output power	P

Mode	Band	FCC part	RSS part	Test name	Verdict
LTE	7	2.1046	Gen-ch.6.12	Conducted output power	P
		27.50 (h)	199-ch.4.4	Equivalent isotropic radiated power	P
		27.53 (m)	199-ch.4.2	Emission bandwidth	P
		2.1049	-	Occupied bandwidth (99%)	P
			-	Peak to average ratio	P
		27.54, 2.1055	199-ch.4.3	Frequency Stability	P
		27.53 (m), 2.1051	199-ch.4.6	Conducted band-edge	P
		27.53 (m)	199-ch.4.6	Conducted spurious emission	P
		27.53 (m), 2.1053	199-ch.4.6	Radiated spurious emission	P
LTE	12	2.1046	Gen-ch.6.12	Conducted output power	P
		27.50 (c)(10)	130-ch.4.4	Equivalent isotropic radiated power	P
		27.53 (g)	-	Emission bandwidth (26dB)	P
		2.1049	Gen-ch.6.6	Occupied bandwidth (99%)	P
			130-ch.4.4	Peak to average ratio	P
		27.54, 2.1055	130-ch.4.3	Frequency Stability	P
		27.53 (g), 2.1051	130-ch.4.6	Conducted band-edge	P
		27.53 (g)	130-ch.4.6	Conducted spurious emission	P
		27.53 (g), 2.1053	130-ch.4.6	Radiated spurious emission	P
LTE	13	2.1046	Gen-ch.6.12	Conducted output power	P
		27.50 (b)(10)	130-ch.4.4	Equivalent isotropic radiated power	P
		27.53 (c)	-	Emission bandwidth (26dB)	P
		2.1049	Gen-ch.6.6	Occupied bandwidth (99%)	P
		-	130-ch.4.4	Peak to average ratio	P
		27.54, 2.1055	130-ch.4.3	Frequency Stability	P
		27.53 (c), 2.1051	130-ch.4.6	Conducted band-edge	P
		27.53 (c)	130-ch.4.6	Conducted spurious emission	P
		27.53 (c), 2.1053	130-ch.4.6	Radiated spurious emission	P
LTE	17	2.1046	Gen-ch.6.12	Conducted output power	P
		27.50 (c)(10)	130-ch.4.4	Equivalent isotropic radiated power	P
		27.53 (g)	-	Emission bandwidth (26dB)	P
		2.1049	Gen-ch.6.6	Occupied bandwidth (99%)	P
			130-ch.4.4	Peak to average ratio	P
		27.54, 2.1055	130-ch.4.3	Frequency Stability	P
		27.53 (g), 2.1051	130-ch.4.6	Conducted band-edge	P
		27.53 (g)	130-ch.4.6	Conducted spurious emission	P
		27.53 (g), 2.1053	130-ch.4.6	Radiated spurious emission	P

Mode	Band	FCC part	RSS part	Test name	Verdict
LTE	26	2.1046	-	Conducted output power	P
		22.913 (a)(2), 90.635 (b)	-	Effective radiated power	P
		2.1049	-	Occupied bandwidth (99%)	P
		22.917, 90.691	-	Occupied bandwidth (26dB)	P
		22.355, 2.1055, 90.213	-	Frequency Stability	P
		22.917, 2.1051, 90.691	-	Band Edge conducted emission	P
		22.917, 2.1051, 90.691	-	Conducted Spurious emission	P
		22.917, 2.1053, 90.691	-	Radiated spurious emission	P
		-	-	Peak-to-average power ratio	P
LTE	30	2.1046	Gen-ch.6.12	Conducted output power	P
		27.50 (a)	195-ch.5.5	Equivalent isotropic radiated power	P
		27.53 (a)		Emission bandwidth	P
		2.1049	Gen-ch.6.6	Occupied bandwidth (99%)	P
		-	195-ch.5.5	Peak to average ratio	P
		27.54, 2.1055	195-ch.5.4	Frequency Stability	P
		27.53 (a), 2.1051	195-ch.5.6	Conducted band-edge	P
		27.53 (a)	195-ch.5.6	Conducted spurious emission	P
		27.53 (a), 2.1053	195-ch.5.6	Radiated spurious emission	P

P: Pass
 F: Fail
 NM: Not Measured
 NA: Not Applicable

8. Document Revision History

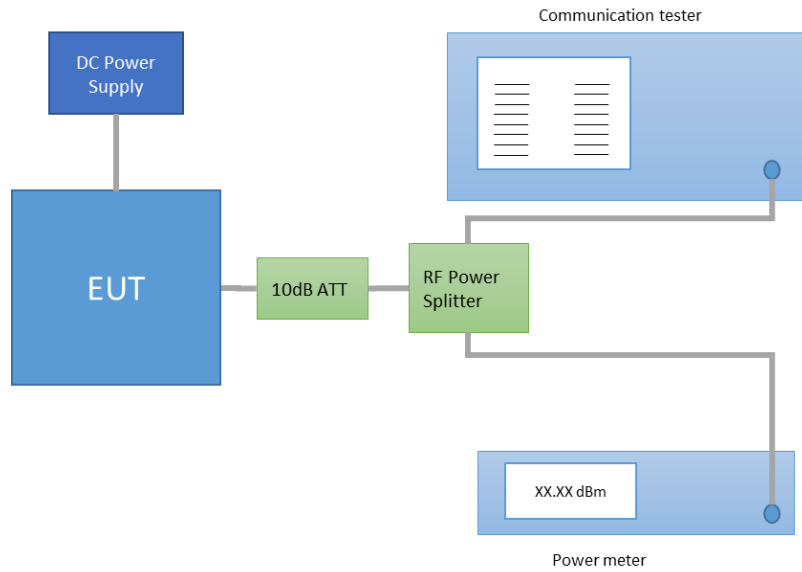
Revision #	Date	Modified by	Details
Rev. 00	2015-07-10	O. Fargant	First Issue
Rev. 01	2015-08-28	O. Fargant	<ol style="list-style-type: none">1. Typo in the declared antenna gain. Updated values in B.2.1 according to the actual declared antenna gain for LTE Band 30.2. Typo in the power limits applicable for LTE Band 30. Corrected values in B.2.1 according to the actual applicable limit.

Annex A. Test & System Description

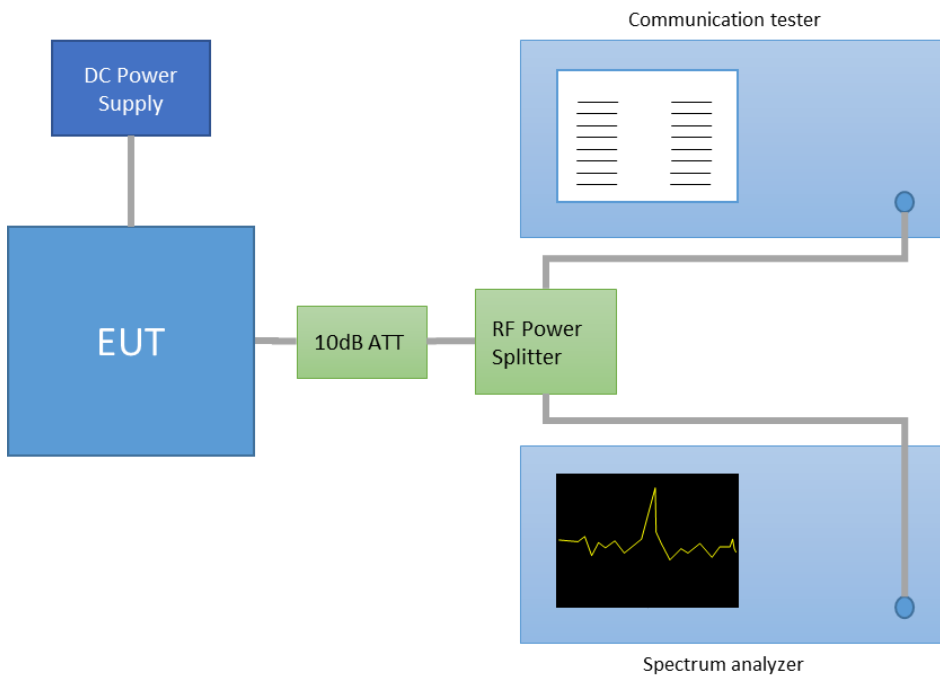
A.1 Measurement system

Measurements were performed using the following setups. A communication tester was used to establish a communication link with the EUT and the communication tester parameters were set to get the maximum output power from the EUT.

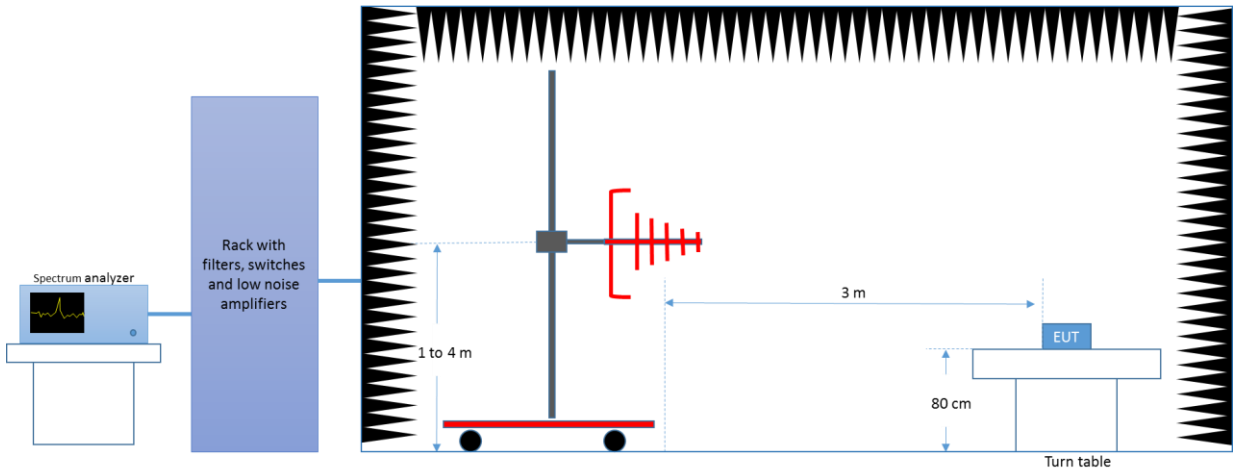
Conducted Setup 1



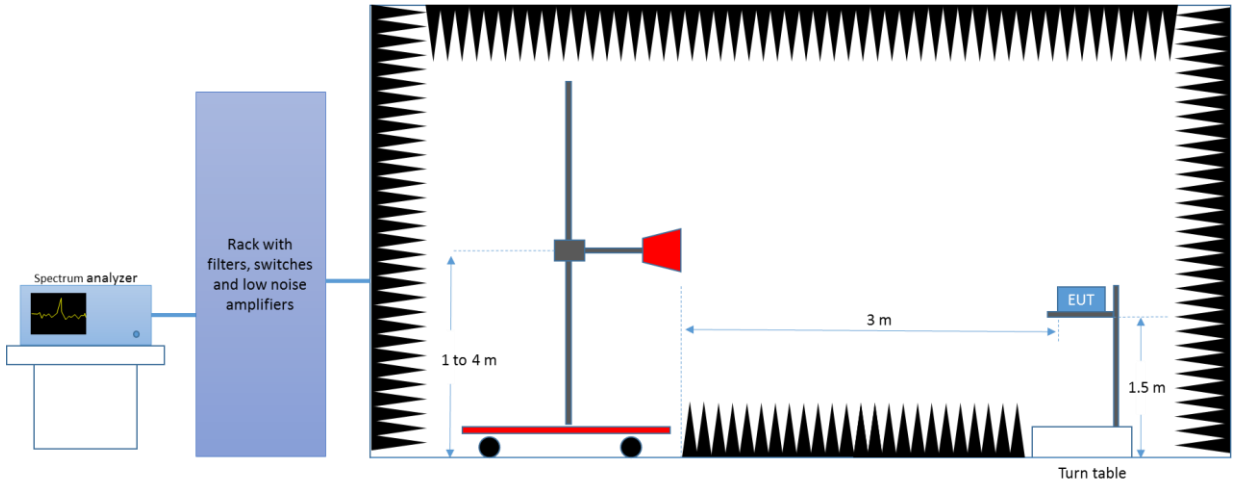
Conducted Setup 2



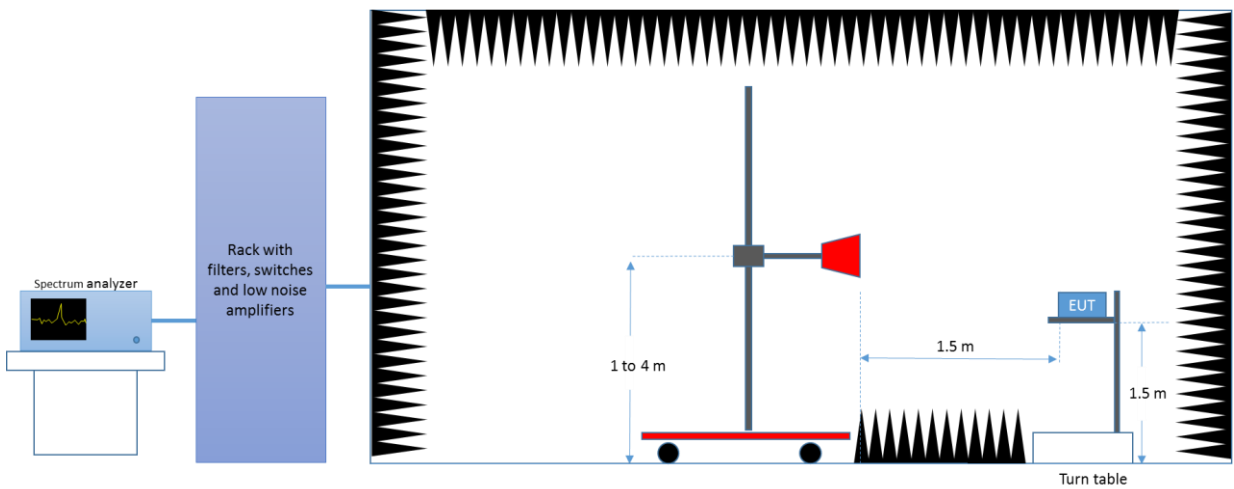
Radiated Setup < 1GHz



Radiated Setup Frequency range 1 GHz to 18 GHz



Radiated Setup > 18GHz



A.2 Test Equipment List

Conducted Setup

ID Number	Device	Type/Model	Serial Number	Manufacturer	Calibration Date	Calibration Due Date
0100	Communication tester	CMW500	129337	Rohde & Schwarz	2013-11-07	2015-11-07
00315	Spectrum analyzer	FSV30	103307	Rohde & Schwarz	2015-03-20	2017-03-20
0033	Spectrum analyzer	FSV40	101072	Rohde & Schwarz	2014-01-30	2016-01-30
0046	Power splitter	11667B	MY51360447	Agilent	NA	NA
0098	USB Power sensor	NRP-Z81	102278	Rohde & Schwarz	2013-07-17	2015-07-17
NA	10 dB attenuator	NA	4882640	-	NA	NA
0036	Multimeter	IDM103	03902163	ISO Tech	2014-01-06	2016-01-06
0293	Power supply	E3640A	MY40006885	Agilent	NA	NA
0300	Climatic Chamber	SLT34/40	56746020930 010	SECASI	2015-03-09	2017-03-09

Radiated Setup

ID Number	Device	Type/Model	Serial Number	Manufacturer	Calibration Date	Calibration Due Date
0210	Communication tester	CMW500	147712	Rohde & Schwarz	NA	NA
0133	Spectrum analyzer	FSV40	101358	Rohde & Schwarz	2014-05-03	2016-05-03
0137	Log antenna 30 MHz – 1 GHz	3142E	00156946	ETS Lindgren	2014-05-03	2016-05-03
0138	Horn antenna 1 GHz – 18 GHz	3117	00152266	ETS Lindgren	2014-03-04	2016-03-04
0141	Horn Antenna + Pre- Amplifier 1 GHz – 18 GHz	3117P	00157736	ETS Lindgren	2014-06-03	2016-06-03
0139	Horn Antenna 18 GHz – 26 GHz	114514	00167100	ETS Lindgren	2014-04-25	2016-04-25
0135	Anechoic chamber	FACT 3	RFD_FA_100	ETS Lindgren	NA	NA
0329	Software	EMC32	1300.7027.00 (100401)	Rohde & Schwarz	NA	NA

A.3 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the below table:

Measurement type	Uncertainty [\pm dB]
Conducted Power (power meter)	± 1.0
Conducted spurious emission	± 2.9
Radiated test < 1GHz	± 3.8
Radiated test 1GHz - 26 GHz	± 4.7

Annex B. Test Results

B.1 Test Conditions

For cellular transmission modes LTE, the device was put into operation by using an R&S CMW 500 as base station simulator.

The output power of the device was set to transmit at maximum power for all tests.

B.2 Test results

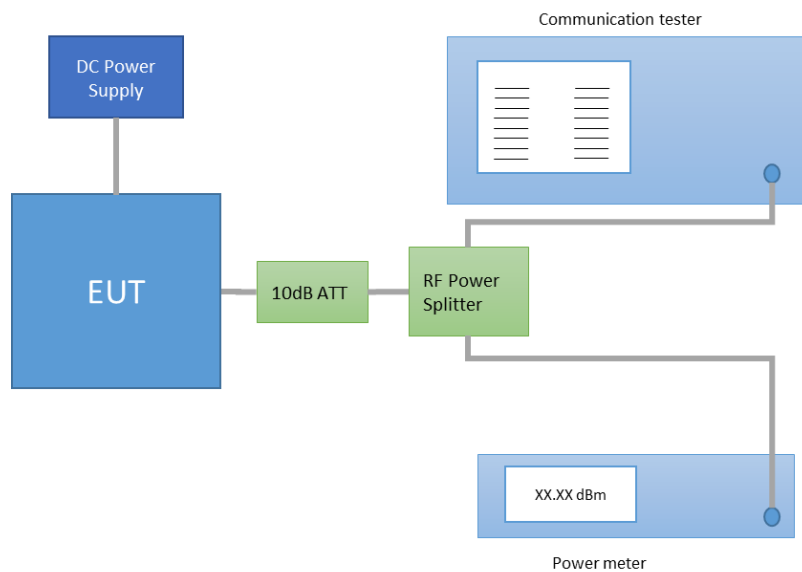
B.2.1 Conducted RF output power

Test limits

BAND	FCC part	RSS part	Power Limits [Watts]	Max Antenna Gain [dBi]	Power Limit at antenna terminal [dBm]
LTE 2	2.1046, 24.232	133-ch.6.4	< 2 watts EIRP	2.0	< 31.0
LTE 4	2.1046, 27.50	139-ch.6.4	< 3 watts ERP	2.0	< 34.9
LTE 5	2.1046, 22.913	132-ch.5.4	ERP max 7 watts	2.0	< 38.6
LTE 17	2.1046, 27.50	130-ch.4.4	< 3 watts ERP	2.0	< 34.9
LTE 12	2.1046, 27.50 (c)(10)	130-ch.4.4 Gen-ch.6.12	< 3 watts ERP	2.0	< 32.8
LTE 13	2.1046, 27.50 (b)(10)	130-ch.4.4 Gen-ch.6.12	< 3 watts ERP	2.0	< 32.8
LTE 26	2.1046, 22.913	-	< 7 watts ERP	2.0	< 36.5
	90.635	-	< 100 watts ERP	2.0	< 48.0
LTE 7	2.1046, 27.50 (h)	199-ch.4.4 Gen-ch.6.12	< 2 watts ERP	2.0	< 31.0
LTE 30	2.1046, 27.50 (a)(3)	195-ch.5.5	< 250mW/5MHz EIRP	0.0	< 24.0

Test procedure

The setup below was used to measure the conducted output power. The antenna terminal of the EUT is connected to the power meter and the communication tester through an attenuator and a power splitter. The power meter reading is compensated to include the RF. This test was performed according to the KDB 971168 D01 § 5.2.



Results tables

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 2	1.4	QPSK	1850.7	18607	1	0	23.4	28.9
						2	23.0	28.8
						5	23.4	28.9
			6	0	22.3	28.9		
			1880	18900	1	0	23.4	28.9
						2	22.9	28.8
						5	23.3	28.9
			6	0	22.2	28.9		
			1909.3	19193	1	0	23.4	28.6
						2	23.0	28.4
						5	23.4	28.5
			6	0	22.2	28.5		
		16QAM	1850.7	18607	1	0	22.6	28.9
						2	22.1	28.9
						5	21.5	28.9
			6	0	21.4	28.8		
			1880	18900	1	0	22.5	28.9
						2	22.0	28.8
						5	22.4	28.8
			6	0	21.3	28.7		
			1909.3	19193	1	0	22.4	28.6
						2	22.0	28.5
						5	22.4	28.6
			6	0	21.4	28.6		
	3	QPSK	1851.5	18615	1	0	23.4	28.9
						7	23.5	28.9
						14	23.3	28.9
			15	0	22.3	28.5		
			1880	18900	1	0	23.3	28.7
						7	23.3	28.7
						14	23.2	28.6
			15	0	22.2	28.6		
			1908.5	19185	1	0	23.3	28.8
						7	23.3	28.6
						14	23.2	28.6
			15	0	22.2	28.3		
		16QAM	1851.5	18615	1	0	22.4	28.9
						7	22.5	29.0
						14	22.4	29.0
			15	0	21.4	28.8		
			1880	18900	1	0	22.4	28.6
						7	22.5	25.6
						14	22.4	28.6
			15	0	21.3	28.7		
			1908.5	19185	1	0	22.5	28.7
						7	22.5	28.7
						14	22.4	28.6
			15	0	21.2	28.5		

**Max Values,
Min Values**

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 2	5	QPSK	1852.5	18625	1	0	23.1	28.7
						12	23.2	28.8
						24	23.0	28.7
					25	0	22.2	28.8
			1	0	23.1	28.9		
				12	23.1	28.9		
				24	22.9	28.8		
			25	0	22.1	28.4		
			1907.5	19175	1	0	23.1	28.7
						12	23.1	28.7
						24	23.0	28.5
					25	0	22.1	28.2
		16QAM	1852.5	18625	1	0	22.3	28.5
						12	22.4	28.5
						24	22.3	28.5
					25	0	21.3	28.7
			1	0	22.3	28.5		
				12	22.3	28.6		
				24	22.2	28.5		
			25	0	21.2	28.5		
			1907.5	19175	1	0	22.1	28.4
						12	22.2	28.5
						24	22.1	28.4
					25	0	21.2	28.3
	10	QPSK	1855	18650	1	0	23.4	29.0
						24	23.3	29.0
						49	23.1	28.9
					50	0	22.3	29.1
			1	0	23.6	28.7		
				24	23.1	28.7		
				49	23.1	28.6		
			50	0	22.2	29.0		
			1905	19150	1	0	23.0	28.7
						24	23.1	28.8
						49	23.1	28.7
					50	0	22.1	28.8
		16QAM	1855	18650	1	0	22.4	28.9
						24	22.4	29.1
						49	22.3	29.0
					50	0	21.4	29.0
			1	0	22.5	28.6		
				24	22.3	28.5		
				49	22.3	28.5		
			50	0	21.3	28.9		
			1905	19150	1	0	22.3	28.7
						24	22.3	28.7
						49	22.3	28.7
					50	0	21.1	28.7

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 2	15	QPSK	1857.5	18675	1	0	23.1	28.6
						37	23.1	28.7
					74	22.8	28.6	
					75	0	22.3	28.5
			1880	18900	1	0	23.0	28.5
						37	23.0	28.6
					74	23.1	28.6	
					75	0	22.3	28.4
			1902.5	19125	1	0	22.9	28.6
						37	22.9	28.5
					74	22.9	28.4	
					75	0	22.1	28.4
		16QAM	1857.5	18675	1	0	22.3	28.7
						37	22.2	28.8
					74	21.9	28.6	
					75	0	21.3	28.6
			1880	18900	1	0	22.6	28.5
						37	22.2	28.5
					74	21.7	28.2	
					75	0	21.1	28.4
			1902.5	19125	1	0	22.3	28.6
						37	22.1	28.5
					74	22.1	28.4	
					75	0	21.2	28.4
	20	QPSK	1860	18700	1	0	23.1	28.4
						49	23.0	28.6
					99	22.3	28.0	
					100	0	22.1	28.2
			1880	18900	1	0	22.8	28.3
						49	23.0	28.6
					99	22.5	28.3	
					100	0	22.1	27.9
			1900	19100	1	0	22.5	28.6
						49	22.8	28.6
					99	22.6	28.2	
					100	0	22.1	28.2
		16QAM	1860	18700	1	0	22.5	28.3
						49	22.3	28.4
					99	22.0	27.9	
					100	0	21.2	28.5
			1880	18900	1	0	22.4	28.7
						49	22.1	28.8
					99	21.9	28.5	
					100	0	21.3	28.2
			1900	19100	1	0	21.8	28.8
						49	21.9	28.7
					99	21.3	28.6	
					100	0	21.1	28.4

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]	
LTE 4	1.4	QPSK	1710.7	19957	1	0	22.5	27.3	
						2	22.0	27.3	
						5	22.4	27.3	
					6	0	21.4	27.4	
						1	0	22.6	27.2
							2	22.1	27.1
			1732.5	20175	1	5	22.5	27.2	
						6	0	21.6	27.2
							1	0	22.5
					2			22.0	26.9
					5	22.5	26.9		
						6	0	21.4	26.9
		16QAM	1710.7	19957	1	0	21.6	27.2	
						2	21.2	27.2	
						5	21.7	27.2	
					6	0	20.5	27.4	
						1	0	21.8	27.2
							2	21.3	27.0
			1732.5	20175	1	5	21.8	27.2	
						6	0	20.5	27.4
							1	0	21.7
					2			21.3	26.9
					5	21.6	26.9		
						6	0	20.6	26.7
	3	QPSK	1711.5	19965	1	0	22.3	27.3	
						7	22.4	27.3	
						14	22.3	27.3	
					15	0	21.4	27.4	
						1	0	22.4	27.4
							7	22.5	27.4
			1732.5	20175	1	14	22.4	27.4	
						15	0	21.5	27.3
							1	0	22.4
					7			22.5	26.7
					15	0	21.5	26.9	
						1	0	21.6	27.4
		1711.5	19965	1	7		21.7	27.6	
					15	14	21.6	27.6	
						1	0	20.5	27.4
				16QAM			1732.5	1	0
					7	21.7			27.3
				14	21.6	27.4			
		15	0	20.6	27.4				
			1	0	21.7	26.9			
				7	21.8	27.0			
		15	14	21.6	26.6				
			0	20.6	26.8				

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]		
LTE 4	5	QPSK	1712.5	19975	1	0	22.1	27.1		
						12	22.1	27.0		
						24	22.0	27.2		
					25	0	21.3	27.6		
					1	0	22.1	27.1		
						12	22.2	27.1		
			24	22.1		27.1				
			25	0	21.4	27.3				
			1752.5	20375	1	0	22.2	27.3		
						12	22.1	27.0		
						24	22.0	26.9		
					25	0	21.4	26.9		
		16QAM			1712.5	1	0	21.5	27.5	
							12	21.5	27.5	
			24	21.4			27.5			
			25	0		20.4	27.2			
			1	0		21.5	27.4			
				12		21.4	27.4			
				24	21.4	27.4				
			25	0	20.5	27.4				
			1752.5	20375	1	0	21.4	26.9		
						12	21.4	26.8		
						24	21.2	26.7		
					25	0	20.4	26.8		
	10	QPSK			1715.0	20000	1	0	22.2	27.3
								24	22.3	27.3
			49	22.1				27.2		
			50	0			21.5	27.4		
			1	0			22.3	27.0		
				24			22.3	27.0		
				49	22.2	27.1				
			50	0	21.5	27.5				
			1750.0	20350	1	0	22.3	27.2		
						24	22.3	26.9		
						49	22.1	26.7		
					50	0	21.4	27.1		
		16QAM			1715.0	1	0	21.5	27.2	
							24	21.4	27.2	
			49	21.3			27.2			
			50	0		20.4	27.3			
			1	0		21.6	27.1			
				24		21.6	27.0			
				49	21.4	27.0				
			50	0	20.5	27.3				
			1750.0	20350	1	0	21.7	27.5		
						24	21.6	27.1		
						49	21.5	26.9		
					50	0	20.4	27.0		

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 4	15	QPSK	1717.5	20025	1	0	22.1	27.2
						37	22.0	27.1
					74	21.8	27.0	
					75	0	21.4	27.5
			1732.5	20175	1	0	22.3	27.3
						37	22.0	27.1
					74	22.0	27.3	
					75	0	21.4	27.5
			1747.5	20325	1	0	22.3	27.3
						37	22.2	26.9
					74	21.8	26.6	
					75	0	21.5	27.1
		16QAM	1717.5	20025	1	0	21.2	27.1
						37	21.2	27.1
					74	21.0	27.0	
					75	0	20.5	27.6
			1732.5	20175	1	0	21.4	27.0
						37	21.5	27.1
					74	21.2	27.0	
					75	0	20.5	27.4
			1747.5	20325	1	0	21.3	27.3
						37	21.2	26.9
					74	20.9	26.5	
					75	0	20.5	27.1
	20	QPSK	1720.0	20050	1	0	21.8	27.0
						49	22.1	27.1
					99	21.5	26.8	
					100	0	21.4	27.4
			1732.5	20175	1	0	21.8	27.1
						49	22.1	27.2
					99	21.5	27.0	
					100	0	21.4	27.5
			1745.0	20300	1	0	22.1	27.1
						49	22.1	27.1
					99	21.7	26.6	
					100	0	21.4	27.2
		16QAM	1720.0	20050	1	0	21.1	27.4
						49	21.3	27.2
					99	20.8	27.2	
					100	0	20.4	27.6
			1732.5	20175	1	0	21.0	27.2
						49	21.3	27.3
					99	20.9	27.2	
					100	0	20.6	27.4
			1745.0	20300	1	0	21.2	26.6
						49	21.5	26.8
					99	20.9	26.2	
					100	0	20.6	27.4

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 5	1.4	QPSK	824.7	20407	1	0	22.4	28.0
						2	22.0	27.7
						5	22.4	27.9
			6	0	21.3	27.4		
			836.5	20525	1	0	22.5	26.3
						2	22.1	26.3
						5	22.4	26.4
			6	0	21.3	25.7		
			848.3	20643	1	0	22.3	25.8
						2	21.8	25.6
						5	22.2	25.7
			6	0	21.0	24.9		
		16QAM	824.7	20407	1	0	21.7	28.1
						2	21.3	27.7
						5	21.7	27.9
			6	0	20.6	27.2		
			836.5	20525	1	0	21.5	26.3
						2	21.6	26.3
						5	21.6	26.5
			6	0	20.5	25.7		
			848.3	20643	1	0	21.4	25.7
						2	21.0	25.6
						5	21.4	25.6
			6	0	20.2	25.1		
	3	QPSK	825.5	20415	1	0	22.3	27.9
						7	22.4	27.6
						14	22.3	27.5
			15	0	21.4	27.0		
			836.5	20525	1	0	22.4	26.1
						7	22.5	26.3
						14	22.3	26.5
			15	0	21.4	25.7		
			847.5	20635	1	0	22.2	26.5
						7	22.2	25.9
						14	22.1	25.9
			15	0	21.2	25.4		
		16QAM	825.5	20415	1	0	21.5	28.0
						7	21.6	27.7
						14	21.5	27.6
			15	0	20.5	27.3		
			836.5	20525	1	0	21.5	26.1
						7	21.6	26.2
						14	21.5	26.6
			15	0	20.5	25.7		
			847.5	20635	1	0	21.5	26.4
						7	21.4	26.0
						14	21.2	25.8
			15	0	20.4	25.5		

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]		
LTE 5	5	QPSK	826.5	20425	1	0	22.1	27.9		
						12	22.1	27.6		
						24	22.0	27.0		
							25	0	21.2	26.9
			836.5	20525	1	0	22.1	26.1		
						12	22.2	26.2		
						24	22.1	26.8		
						25	0	21.2	25.9	
			846.5	20625	1	0	22.0	27.2		
		12				22.0	26.1			
		24				22.0	25.8			
					25	0	21.1	26.1		
		16QAM	826.5	20425	1	0	21.2	27.7		
						12	21.3	27.6		
						24	21.2	26.8		
						25	0	20.4	27.1	
			836.5	20525	1	0	21.3	25.9		
						12	21.4	26.1		
	24					21.3	26.5			
					25	0	20.3	25.8		
	846.5		20625	1	0	21.3	27.1			
		12			21.4	26.2				
		24			21.1	25.8				
				25	0	20.2	26.1			
	10	QPSK	829.0	20450	1	0	22.3	27.8		
						24	22.2	26.7		
						49	22.1	26.1		
						50	0	21.3	26.5	
			836.5	20525	1	0	22.3	26.1		
						24	22.3	26.2		
						49	22.3	27.5		
						50	0	21.3	26.3	
			844.0	20600	1	0	22.4	27.2		
		24				22.2	27.4			
		49				22.0	25.8			
					50	0	21.2	26.6		
16QAM		829.0	20450	1	0	21.4	27.8			
					24	21.4	26.8			
					49	21.2	26.1			
					50	0	20.4	26.4		
		836.5	20525	1	0	21.5	26.5			
					24	21.4	26.4			
	49				21.4	27.7				
				50	0	20.4	26.3			
	844.0	20600	1	0	21.4	27.2				
24				21.3	27.4					
49				21.1	25.8					
			50	0	20.4	26.8				

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 17	5	QPSK	706.5	23755	1	0	22.4	26.9
						12	22.5	27.2
						24	22.3	27.4
					25	0	21.5	26.8
			1	0	22.4	27.4		
				12	22.3	27.0		
				24	22.2	26.4		
			25	0	21.5	26.5		
			713.5	23825	1	0	22.3	26.9
						12	22.3	26.2
						24	22.2	26.4
					25	0	21.5	26.1
		16QAM	706.5	23755	1	0	21.6	26.6
						12	21.7	26.9
						24	21.6	27.1
					25	0	20.5	26.8
			1	0	21.6	27.4		
				12	21.7	27.1		
				24	21.6	26.4		
			25	0	20.5	26.6		
			713.5	23825	1	0	21.4	26.7
						12	21.5	26.1
						24	21.3	26.3
					25	0	20.5	26.0
	10	QPSK	709.0	23780	1	0	22.4	27.0
						24	22.5	27.6
						49	22.3	26.3
					50	0	21.5	26.6
			1	0	22.5	27.2		
				24	22.5	27.3		
				49	22.3	26.2		
			50	0	21.6	26.6		
			711.0	23800	1	0	22.5	27.3
						24	22.5	26.8
						49	22.4	26.2
					50	0	21.6	26.8
		16QAM	709.0	23780	1	0	21.7	27.0
						24	21.7	27.5
						49	21.5	26.2
					50	0	20.6	26.8
			1	0	21.6	27.2		
				24	21.6	27.3		
				49	21.5	26.1		
			50	0	20.5	26.6		
			711.0	23800	1	0	21.7	27.4
						24	21.7	26.9
						49	21.6	26.3
					50	0	20.5	26.6

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 12	1.4	QPSK	699.7	23017	1	0	23.0	28.6
						2	22.6	28.7
					5	23.0	28.6	
					6	21.9	28.5	
			707.5	23095	1	0	23.1	29.3
						2	22.7	29.2
					5	23.1	29.3	
					6	21.9	29.2	
			715.3	23173	1	0	22.9	28.0
						2	22.5	28.1
					5	22.9	28.1	
					6	0	21.8	28.0
		16QAM	699.7	23017	1	0	22.2	28.7
						2	21.7	28.7
					5	22.2	28.6	
					6	0	21.1	28.4
			707.5	23095	1	0	22.2	29.3
						2	21.7	29.2
					5	22.1	29.3	
					6	0	21.1	29.3
			715.3	23173	1	0	22.1	28.1
						2	21.7	28.1
					5	22.1	28.2	
					6	0	21.0	28.0
	3	QPSK	700.5	23025	1	0	23.1	28.6
						7	23.1	28.5
						14	23.0	28.5
					15	0	22.0	28.2
						7	23.0	29.1
						14	22.9	29.1
			707.5	23095	1	0	23.0	29.1
						7	23.1	29.2
						14	22.9	29.1
					15	0	22.0	29.0
						7	23.0	28.0
						14	22.8	28.1
		714.5	23165	1	0	22.9	28.3	
					7	23.0	28.0	
					14	22.8	28.1	
				15	0	21.8	27.9	
					7	23.0	28.0	
					14	22.8	28.1	
		16QAM	700.5	23025	1	0	22.1	28.6
						7	22.1	28.6
						14	22.0	28.5
					15	0	21.1	28.4
						7	22.2	28.9
						14	22.1	28.9
707.5	23095		1	0	22.2	28.9		
				7	22.2	28.9		
				14	22.1	28.9		
			15	0	21.1	28.9		
				7	22.1	28.4		
				14	22.1	28.2		
714.5	23165	1	0	22.1	28.4			
			7	22.2	28.1			
			14	22.1	28.2			
		15	0	21.0	27.9			
			7	22.1	28.1			
			14	22.1	28.2			

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 12	5	QPSK	701.5	23035	1	0	22.7	28.5
						12	22.8	28.3
					24	22.7	28.3	
					25	0	21.8	27.9
			707.5	23095	1	0	22.7	28.7
						12	22.8	29.3
					24	22.7	29.0	
					25	0	21.8	28.5
			713.5	23155	1	0	22.7	28.8
						12	22.7	28.3
					24	22.6	28.1	
					25	0	21.7	28.1
		16QAM	701.5	23035	1	0	21.9	28.3
						12	21.9	28.2
					24	21.9	28.2	
					25	0	20.9	28.0
			707.5	23095	1	0	21.8	28.6
						12	21.9	29.2
					24	21.8	29.0	
					25	0	20.9	28.3
			713.5	23155	1	0	21.8	28.6
						12	21.7	28.1
					24	21.7	28.0	
					25	0	20.9	28.0
	10	QPSK	704.0	23060	1	0	22.9	28.6
						24	22.9	28.6
					49	22.9	29.2	
					50	0	21.9	28.6
			707.5	23095	1	0	22.9	28.4
						24	22.9	29.3
					49	22.7	28.5	
					50	0	21.8	28.3
			711.0	23130	1	0	22.9	29.0
						24	22.8	28.6
					49	22.7	27.9	
					50	0	21.8	28.4
		16QAM	704.0	23060	1	0	22.1	28.7
						24	22.1	28.6
					49	22.1	29.2	
					50	0	21.0	28.6
			707.5	23095	1	0	22.0	28.4
						24	21.9	29.3
					49	21.8	28.6	
					50	0	21.0	28.5
			711.0	23130	1	0	22.1	28.9
						24	21.9	28.4
					49	21.8	27.9	
					50	0	20.9	28.2

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]		
LTE 13	5	QPSK	779.5	23205	1	0	23.2	27.8		
						12	23.1	28.1		
						24	23.0	28.4		
							25	0	22.3	27.5
			782.0	23230	1	0	23.1	27.5		
						12	23.1	28.2		
						24	22.9	28.3		
						25	0	22.2	27.8	
			784.5	23255	1	0	23.0	28.2		
		12				23.0	28.4			
		24				22.9	27.6			
					25	0	22.1	27.6		
		16QAM	779.5	23205	1	0	22.3	27.5		
						12	22.4	28.1		
						24	22.2	28.3		
					25	0	21.2	27.4		
	782.0		23230	1	0	22.2	27.5			
					12	22.2	28.4			
					24	22.1	28.3			
					25	0	21.1	27.7		
	784.5		23255	1	0	22.1	28.2			
		12			22.1	28.4				
		24			21.9	27.5				
				25	0	21.0	27.7			
	10	QPSK	782.0	23230	1	0	23.6	27.3		
						24	23.0	28.4		
						49	22.6	27.8		
50						0	22.3	28.2		
0						22.8	27.2			
24						22.2	28.6			
16QAM		782.0	23230	1	49	21.8	27.8			
					50	0	21.2	28.3		

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 26	1.4	QPSK	814.7	26697	1	0	20.3	26.5
						2	20.8	26.5
					5	21.3	26.5	
					6	0	22.0	27.8
			831.5	26865	1	0	23.0	28.2
						2	22.6	28.3
					5	23.0	28.1	
					6	0	21.8	27.2
			848.3	27033	1	0	22.6	27.3
						2	22.2	27.4
					5	22.6	26.7	
					6	0	21.4	27.2
		16QAM	814.7	26697	1	0	20.3	26.6
						2	20.8	27.3
					5	21.2	27.2	
					6	0	21.0	27.8
			831.5	26865	1	0	22.0	27.7
						2	21.6	27.9
					5	22.0	27.9	
					6	0	20.9	27.2
			848.3	27033	1	0	21.7	27.2
						2	21.3	27.1
					5	21.7	27.0	
					6	0	20.4	26.4
	3	QPSK	815.5	26705	1	0	20.2	26.3
						7	20.2	26.1
					14	21.1	27.0	
					15	0	22.0	27.6
			831.5	26865	1	0	22.9	28.6
						7	23.0	28.1
					14	22.9	28.1	
					15	0	21.8	26.9
			847.5	27025	1	0	22.6	27.6
						7	22.6	27.6
					14	22.5	27.3	
					15	0	21.6	26.5
		16QAM	815.5	26705	1	0	20.2	26.7
						7	20.4	26.5
					14	21.2	27.6	
					15	0	21.0	27.6
			831.5	26865	1	0	21.9	28.3
						7	22.0	27.9
					14	21.9	27.8	
					15	0	20.8	27.0
			847.5	27025	1	0	21.8	27.8
						7	21.8	27.7
					14	21.6	27.2	
					15	0	20.6	26.5

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 26	5	QPSK	816.5	26715	1	0	20.9	26.6
						12	20.8	26.2
					24	20.8	26.4	
					25	0	21.9	27.6
			831.5	26865	1	0	22.6	27.5
						12	22.6	27.8
					24	22.5	27.3	
					25	0	21.7	26.7
			846.5	27015	1	0	22.4	27.9
						12	22.4	27.2
					24	22.2	26.5	
					25	0	21.4	26.9
		16QAM	816.5	26715	1	0	21.0	27.1
						12	21.0	26.9
					24	20.9	26.8	
					25	0	20.9	27.5
			831.5	26865	1	0	21.7	27.5
						12	21.8	27.1
					24	21.6	27.7	
					25	0	20.7	26.6
			846.5	27015	1	0	21.5	27.9
						12	21.4	27.4
					24	21.4	27.4	
					25	0	20.4	27.0
	10	QPSK	819.0	26740	1	0	21.1	26.8
						24	21.0	26.5
					49	20.8	27.4	
					50	0	22.0	28.4
			831.5	26865	1	0	22.9	28.5
						24	22.8	28.0
					49	22.6	27.4	
					50	0	21.8	27.1
			844.0	26990	1	0	22.7	27.7
						24	22.5	28.1
					49	22.4	26.7	
					50	0	21.6	27.7
		16QAM	819.0	26740	1	0	21.3	28.0
						24	21.2	27.7
					49	21.1	27.9	
					50	0	20.9	28.2
			831.5	26865	1	0	22.0	28.1
						24	21.8	27.9
					49	21.7	27.5	
					50	0	20.7	27.1
			844.0	26990	1	0	21.8	27.9
						24	21.7	28.1
					49	21.6	26.8	
					50	0	20.5	27.7

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]	
LTE 26	15	QPSK	821.5	26765	1	0	20.9	26.3	
						37	20.9	26.9	
						74	20.7	26.7	
					75	0	21.8	27.4	
			1	0	22.5	28.0			
				37	22.6	27.2			
				74	22.2	26.8			
			75	0	21.7	27.3			
				841.5	26965	1	0	22.5	26.7
							37	22.4	27.8
			74				22.2	26.1	
			75	0	21.6	27.4			
		821.5		26765	1	0	21.0	26.5	
						37	20.9	27.3	
			74			20.7	27.4		
			75		0	20.8	27.4		
		831.5	26865	1	0	21.8	28.2		
					37	21.7	27.8		
					74	21.5	27.4		
					75	0	20.8	27.2	
		841.5	26965	1	0	21.6	27.0		
					37	21.4	27.8		
					74	21.2	26.7		
					75	0	20.6	27.5	

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 7	5	QPSK	2502.5	20775	1	0	23.5	28.3
						12	23.5	28.2
					24	23.4	28.9	
					25	0	22.6	28.0
			2535.0	21100	1	0	23.5	28.0
						12	23.6	28.2
					24	23.3	28.3	
					25	0	22.6	28.2
			2567.5	21425	1	0	23.3	27.8
						12	23.4	28.0
					24	23.1	28.1	
					25	0	22.5	28.1
		16QAM	2502.5	20775	1	0	22.7	28.1
						12	22.8	27.9
					24	22.6	27.8	
					25	0	21.7	28.1
			2535.0	21100	1	0	22.6	27.6
						12	22.8	28.2
					24	22.6	28.3	
					25	0	21.7	28.0
			2567.5	21425	1	0	22.4	28.2
						12	22.6	28.3
					24	22.4	28.2	
					25	0	21.6	28.6
	10	QPSK	2505.0	20800	1	0	23.7	28.2
						24	23.7	27.7
						49	23.5	27.5
					50	0	22.6	28.1
						24	23.6	27.7
						49	23.4	28.4
			2535.0	1	0	23.6	28.2	
					24	23.6	28.2	
					49	23.4	28.4	
				50	0	22.7	28.3	
					24	23.5	28.3	
					49	23.5	28.2	
		2565.0	1	0	23.5	28.3		
				24	23.5	28.2		
				49	23.2	28.2		
			50	0	22.5	28.7		
				24	22.7	28.2		
				49	22.7	27.9		
		16QAM	2505.0	1	0	21.7	28.2	
					24	22.5	27.6	
					49	22.5	27.6	
				50	0	21.7	28.2	
					24	22.9	27.6	
					49	22.9	28.1	
2535.0	1		0	22.6	28.3			
			24	22.6	28.3			
			49	22.6	28.3			
	50		0	21.7	28.3			
			24	21.7	28.3			
			49	21.7	28.3			
2565.0	1	0	22.8	28.6				
		24	22.8	28.5				
		49	22.6	28.5				
	50	0	21.6	28.8				
		24	22.8	28.5				
		49	22.6	28.5				

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 7	15	QPSK	2507.5	20825	1	0	23.4	27.7
						37	23.4	27.3
					74	23.5	27.2	
					75	0	22.6	27.5
			2535.0	21100	1	0	23.4	27.4
						37	23.4	28.1
					74	23.0	28.3	
					75	0	22.6	27.9
			2562.5	21375	1	0	23.2	27.8
						37	23.2	27.8
					74	22.9	27.4	
					75	0	22.5	27.7
		16QAM	2507.5	20825	1	0	22.7	28.1
						37	22.7	28.2
					74	22.4	27.5	
					75	0	21.7	27.9
			2535.0	21100	1	0	22.6	27.4
						37	22.5	28.1
					74	22.2	28.3	
					75	0	21.7	28.0
			2562.5	21375	1	0	22.6	28.2
						37	22.6	27.8
					74	22.2	27.9	
					75	0	21.6	28.0
	20	QPSK	2510.0	20850	1	0	23.0	27.3
						49	23.4	27.0
					99	22.6	26.7	
					100	0	22.6	27.2
			2535.0	21100	1	0	23.0	27.0
						49	23.4	28.1
					99	22.5	28.1	
					100	0	22.6	27.8
			2560.0	21350	1	0	23.0	28.0
						49	23.3	28.0
					99	22.4	27.2	
					100	0	22.5	27.9
		16QAM	2510.0	20850	1	0	22.4	27.5
						49	22.8	28.0
					99	21.9	26.9	
					100	0	21.7	27.8
			2535.0	21100	1	0	22.2	27.5
						49	22.6	28.2
					99	21.7	28.3	
					100	0	21.6	28.0
			2560.0	21350	1	0	22.2	28.5
						49	22.5	28.1
					99	22.3	27.8	
					100	0	21.6	28.5

Max Values,
Min Values

Band	BW [MHz]	Mod.	Freq [MHz]	Channel Number	#RB	RB position	Avg [dBm]	Peak [dBm]
LTE 30	5	QPSK	27685	2307.5	1	0	23.2	27.9
						12	23.2	27.7
						24	23.2	28.0
			25	0	22.1	28.6		
			27710	2310	1	0	23.0	28.7
						12	23.1	28.7
		24				23.0	28.7	
		25	0	22.2	28.7			
		27735	2312.5	1	0	23.1	28.4	
					12	23.3	28.4	
					24	23.0	28.3	
		25	0	22.2	28.6			
	16QAM	27685	2307.5	1	0	22.1	28.1	
					12	22.1	28.3	
					24	21.9	28.3	
		25	0	21.1	28.4			
		27710	2310	1	0	22.1	28.3	
					12	22.2	28.3	
	24				22.1	28.6		
	25	0	21.2	28.6				
	27735	2312.5	1	0	22.3	28.1		
				12	22.4	28.3		
				24	22.2	28.3		
	25	0	21.2	28.7				
10	QPSK	27710	2310	1	0	23.3	28.1	
					24	23.3	28.5	
					49	23.2	28.4	
	50	0	22.2	28.6				
	16QAM	27710	2310	1	0	22.6	28.2	
					24	22.4	28.5	
49					22.4	28.4		
50	0	21.2	28.6					

Max Values,
Min Values

B.2.2 Occupied bandwidth

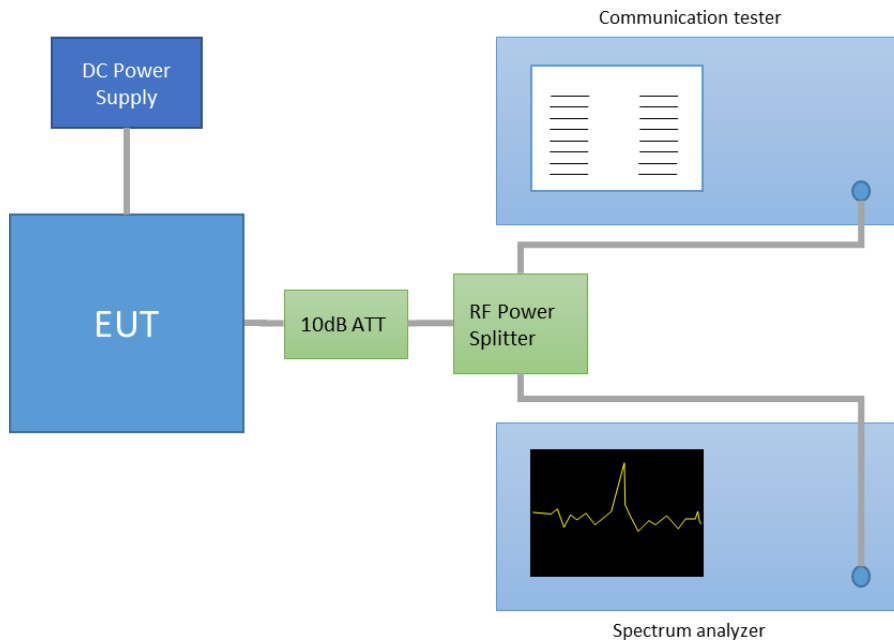
Standard references

BAND	FCC part	RSS part
LTE 2	2.1049, 24.238	133-ch.6.4
LTE 4	2. 1049, 27.53	139-ch.2.3
LTE 5	2. 1049, 22.917	132-ch.5.4
LTE 17	2. 1049, 27.53	-
LTE 12	2. 1049, 27.53 (g)	Gen-ch.6.6
LTE 13	2. 1049, 27.53 (c)	Gen-ch.6.6
LTE 26	2. 1049, 22.917, 90.691	-
LTE 7	2. 1049, 27.53 (m)	199-ch.4.2
LTE 30	2.1049, 27.53	Gen-ch.6.6

Test procedure

The setup below was used to measure the transmitted occupied bandwidth. The antenna terminal of the EUT is connected to the spectrum analyzer and the communication tester through an attenuator and a power splitter. This test was performed according to the KDB 971168 D01 § 4.

The occupied bandwidth was measured on the worst case configuration selected from the chapter B.2.1 and on the low, middle and high channel.



Results tables

LTE Band 2

Band	BW [MHz]	Mod.	Channel Number	Freq [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 2	1.4	QPSK	18607	1850.7	6	0	1.104	1.310
			18900	1880.0			1.100	1.318
			19193	1909.3			1.091	1.299
		16QAM	18607	1850.7			1.099	1.318
			18900	1880.0			1.097	1.316
			19193	1909.3			1.100	1.325
	3	QPSK	18615	1851.5	15		2.717	3.136
			18900	1880.0			2.716	3.080
			19185	1908.5			2.729	3.073
		16QAM	18615	1851.5			2.728	3.064
			18900	1880.0			2.720	3.083
			19185	1908.5			2.708	3.081
	5	QPSK	18625	1852.5	25		4.512	5.055
			18900	1880.0			4.525	5.159
			19175	1907.5			4.497	5.153
		16QAM	18625	1852.5			4.502	5.073
			18900	1880.0			4.516	5.078
			19175	1907.5			4.523	5.097
	10	QPSK	18650	1855.0	50		9.015	10.232
			18900	1880.0			9.013	10.387
			19150	1905.0			8.999	10.330
		16QAM	18650	1855.0			8.996	10.224
			18900	1880.0			9.022	10.247
			19150	1905.0			9.013	10.370
	15	QPSK	18675	1857.5	75		13.381	15.166
			18900	1880.0			13.453	15.168
			19125	1902.5			13.370	14.895
		16QAM	18675	1857.5			13.377	15.066
			18900	1880.0			13.407	15.241
			19125	1902.5			13.396	15.546
20	QPSK	18700	1860.0	100	17.821	19.588		
		18900	1880.0		17.871	20.178		
		19100	1900.0		17.846	19.936		
	16QAM	18700	1860.0		17.824	19.839		
		18900	1880.0		17.864	19.803		
		19100	1900.0		17.873	19.462		

Max Values

LTE Band 4

Band	BW [MHz]	Mod.	Channel Number	Freq [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 4	1.4	QPSK	19957	1710.7	6	0	1.097	1.341
			20175	1732.5			1.090	1.340
			20393	1754.3			1.107	1.352
		16QAM	19957	1710.7			1.113	1.360
			20175	1732.5			1.106	1.370
			20393	1754.3			1.100	1.327
	3	QPSK	19965	1711.5	15		2.730	3.071
			20175	1732.5			2.725	3.090
			20385	1753.5			2.728	3.079
		16QAM	19965	1711.5			2.724	3.148
			20175	1732.5			2.721	3.040
			20385	1753.5			2.724	3.114
	5	QPSK	19975	1712.5	25		4.503	5.097
			20175	1732.5			4.501	5.215
			20375	1752.5			4.534	5.105
		16QAM	19975	1712.5			4.513	5.150
			20175	1732.5			4.500	5.283
			20375	1752.5			4.497	5.067
	10	QPSK	20000	1715.0	50		9.035	10.305
			20175	1732.5			9.020	10.579
			20350	1750.0			8.991	10.287
		16QAM	20000	1715.0			9.022	10.366
			20175	1732.5			9.010	10.443
			20350	1750.0			8.982	10.406
	15	QPSK	20025	1717.5	75		13.476	15.280
			20175	1732.5			13.571	15.230
			20325	1747.5			13.475	15.248
		16QAM	20025	1717.5			13.510	15.313
			20175	1732.5			13.477	15.315
			20325	1747.5			13.490	15.120
20	QPSK	20050	1720.0	100	17.844	20.060		
		20175	1732.5		17.868	20.150		
		20300	1745.0		17.819	19.871		
	16QAM	20050	1720.0		17.883	20.291		
		20175	1732.5		17.884	20.425		
		20300	1745.0		17.901	20.263		

Max Values

LTE Band 5

Band	BW [MHz]	Mod.	Channel Number	Freq [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 5	1.4	QPSK	20407	824.7	6	0	1.101	1.329
			20525	836.5			1.104	1.383
			20643	848.3			1.104	1.393
		16QAM	20407	824.7			1.102	1.330
			20525	836.5			1.103	1.354
			20643	848.3			1.105	1.322
	3	QPSK	20415	825.5	15		2.736	3.052
			20525	836.5			2.726	3.094
			20635	847.5			2.735	3.102
		16QAM	20415	825.5			2.712	3.780
			20525	836.5			2.719	3.084
			20635	847.5			2.733	3.057
	5	QPSK	20425	826.5	25		4.508	5.134
			20525	836.5			4.510	5.095
			20625	846.5			4.498	5.098
		16QAM	20425	826.5			4.504	5.123
			20525	836.5			4.498	5.084
			20625	846.5			4.507	5.049
	10	QPSK	20450	829.0	50		8.994	10.378
			20525	836.5			9.035	10.171
			20600	844.0			8.917	10.222
		16QAM	20450	829.0			8.992	10.203
			20525	836.5			9.026	10.261
			20600	844.0			8.959	10.188

Max Values

LTE Band 17

Band	BW [MHz]	Mod.	Channel Number	Freq [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 17	5	QPSK	23755	706.5	25	0	4.522	5.232
			23790	710.0			4.511	5.145
			23825	713.5			4.510	5.137
		16QAM	23755	706.5			4.541	5.147
			23790	710.0			4.492	5.076
			23825	713.5			4.532	5.027
	10	QPSK	23780	709.0	50		9.003	10.260
			23790	710.0			9.054	10.235
			23800	711.0			8.981	10.172
		16QAM	23780	709.0			9.019	10.216
			23790	710.0			8.970	10.126
			23800	711.0			8.988	10.111

Max Values

LTE Band 12

Band	BW [MHz]	Mod.	Channel Number	Freq [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 12	1.4	QPSK	23017	699.7	6	0	1.106	1.314
			23095	707.5			1.099	1.324
			23173	715.3			1.103	1.323
		16QAM	23017	699.7			1.096	1.316
			23095	707.5			1.093	1.343
			23173	715.3			1.096	1.360
	3	QPSK	23025	700.5	15		2.723	3.088
			23095	707.5			2.739	3.110
			23165	714.5			2.728	3.085
		16QAM	23025	700.5			2.711	3.062
			23095	707.5			2.727	3.052
			23165	714.5			2.731	3.076
	5	QPSK	23035	701.5	25		4.501	5.102
			23095	707.5			4.498	5.069
			23155	713.5			4.503	5.164
		16QAM	23035	701.5			4.496	5.131
			23095	707.5			4.510	5.113
			23155	713.5			4.510	5.050
	10	QPSK	23060	704.0	50		9.003	10.218
			23095	707.5			9.026	10.304
			23130	711.0			9.034	10.232
		16QAM	23060	704.0			9.045	10.228
			23095	707.5			9.016	10.354
			23130	711.0			8.988	10.214

Max Values

LTE Band 13

Band	BW [MHz]	Mod.	Channel Number	Freq [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 13	5	QPSK	23205	779.5	25	0	4.481	5.116
			23230	782.0			4.507	5.186
			23255	784.5			4.480	5.037
		16QAM	23205	779.5			4.475	5.060
			23230	782.0			4.514	5.131
			23255	784.5			4.463	5.035
	10	QPSK	23230	782.0	50		8.973	10.126
							8.988	10.069
							8.971	10.219
		16QAM					8.974	10.083
							8.966	10.193
							8.984	10.138

Max Values

LTE Band 26

Band	BW [MHz]	Mod.	Channel Number	Freq [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 26	1.4	QPSK	26697	814.7	6	0	1.095	1.335
			26865	831.5			1.095	1.309
			27033	848.3			1.103	1.370
		16QAM	26697	814.7			1.093	1.304
			26865	831.5			1.097	1.343
			27033	848.3			1.103	1.323
	3	QPSK	26705	815.5	15		2.723	3.093
			26865	831.5			2.720	3.083
			27025	847.5			2.712	3.058
		16QAM	26705	815.5			2.715	3.037
			26865	831.5			2.725	3.057
			27025	847.5			2.707	3.050
	5	QPSK	26715	816.5	25		4.496	5.132
			26865	831.5			4.508	5.133
			27015	846.5			4.504	5.042
		16QAM	26715	816.5			4.496	5.155
			26865	831.5			4.515	5.025
			27015	846.5			4.523	5.096
	10	QPSK	26740	819.0	50		9.051	10.201
			26865	831.5			8.986	10.324
			26990	844.0			8.927	10.066
		16QAM	26740	819.0			9.009	10.263
			26865	831.5			9.036	10.245
			26990	844.0			8.952	10.107
15	QPSK	26765	821.5	75	13.650	15.280		
		26865	831.5		13.466	14.986		
		26965	841.5		13.445	15.415		
	16QAM	26765	821.5		13.522	15.093		
		26865	831.5		13.505	15.068		
		26965	841.5		13.400	15.321		

Max Values

LTE Band 7

Band	BW [MHz]	Mod.	Channel Number	Freq [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 7	5	QPSK	20775	2502.5	25	0	4.515	5.099
			21100	2535.0			4.512	5.207
			21425	2567.5			4.514	5.190
		16QAM	20775	2502.5			4.514	5.119
			21100	2535.0			4.514	5.135
			21425	2567.5			4.494	5.142
	10	QPSK	20800	2505.0	50		9.041	10.298
			21100	2535.0			9.039	10.266
			21400	2565.0			9.004	10.228
		16QAM	20800	2505.0			9.022	10.193
			21100	2535.0			9.003	10.185
			21400	2565.0			8.988	10.326
	15	QPSK	20825	2507.5	75		13.516	15.926
			21100	2535.0			13.557	15.525
			21375	2562.5			13.462	15.143
		16QAM	20825	2507.5			13.464	15.118
			21100	2535.0			13.535	15.643
			21375	2562.5			13.481	15.123
	20	QPSK	20850	2510.0	100		17.916	20.306
			21100	2535.0			17.898	20.176
			21350	2560.0			17.882	20.353
		16QAM	20850	2510.0			17.864	20.161
			21100	2535.0			17.924	20.623
			21350	2560.0			17.813	19.865

Max Values

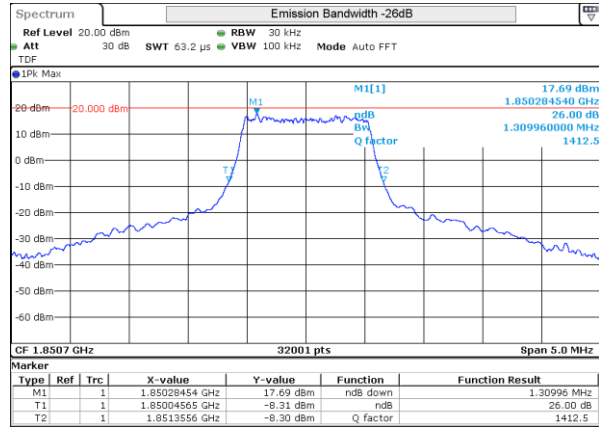
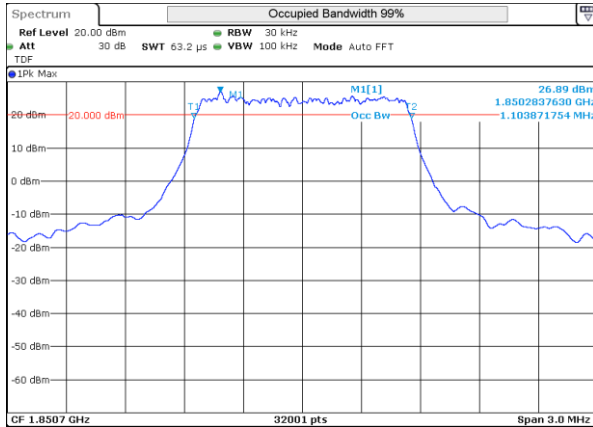
LTE Band 30

Band	BW [MHz]	Mod.	Channel Number	Freq [MHz]	#RB	RB position	OBW [MHz]	EBW [MHz]
LTE 30	5	QPSK	27685	2307.5	25	0	4.515	5.125
			27710	2310			4.514	5.142
			27735	2312.5			4.483	5.043
		16QAM	27685	2307.5			4.540	5.086
			27710	2310			4.496	5.056
			27735	2312.5			4.531	5.163
	10	QPSK	27710	2310	50		8.987	10.215
							9.006	10.240
							9.003	10.297
		16QAM					8.973	10.331
							9.016	10.314
							8.964	10.116

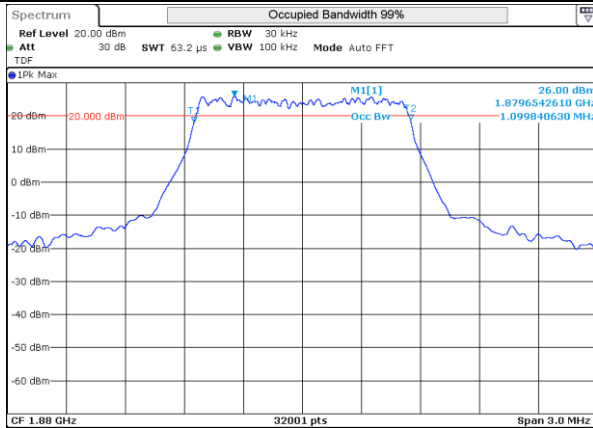
Max Values

Occupied bandwidth screenshot results

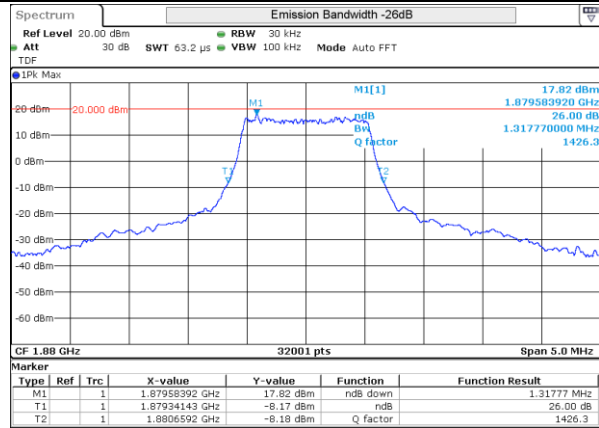
LTE Band 2



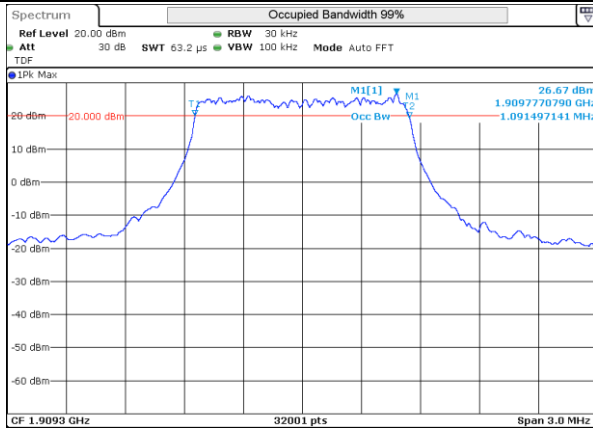
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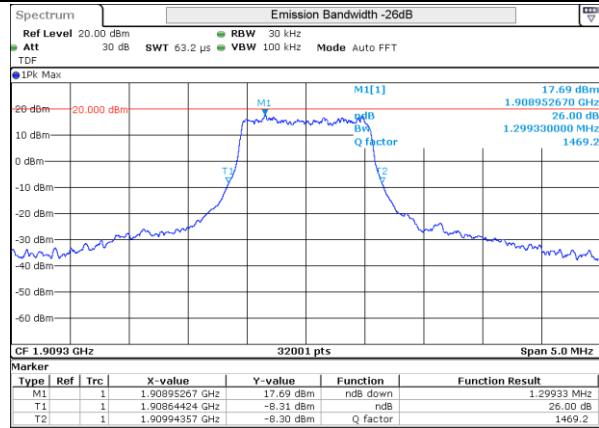
LTE 2 QPSK BW1.4MHz 1850.7MHz Low Ch 18607 6RB-0



LTE 2 QPSK BW1.4MHz 1880MHz Mid Ch 18900 6RB-0

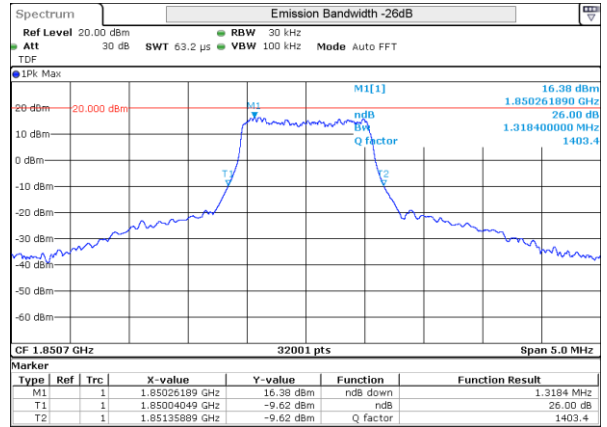
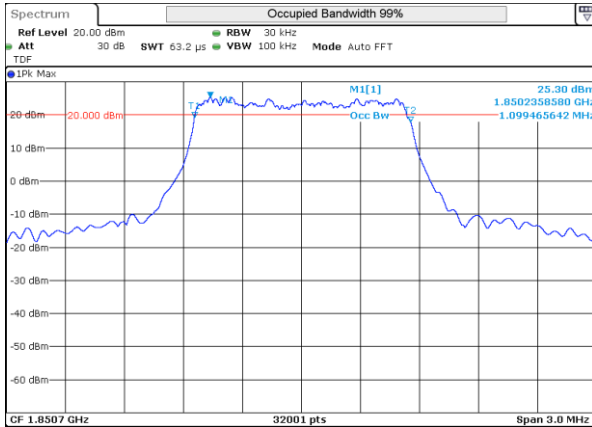


LTE 2 QPSK BW1.4MHz 1880MHz Mid Ch 18900 6RB-0



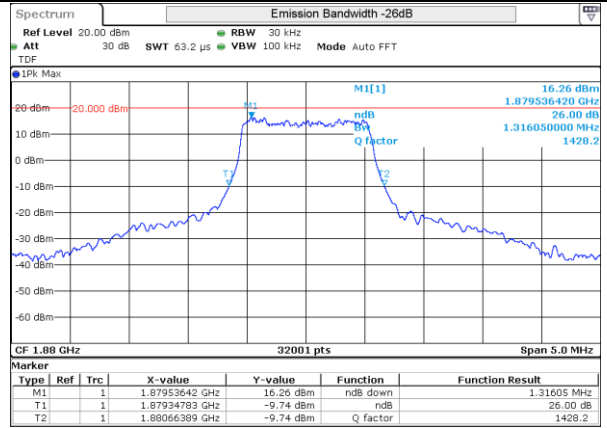
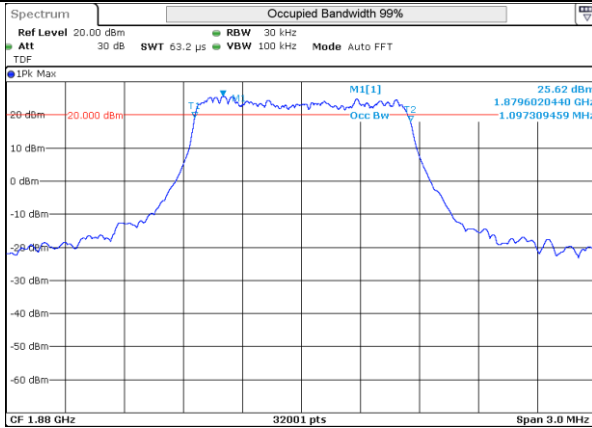
LTE 2 QPSK BW1.4MHz 1909.3MHz High Ch 19193 6RB-0

LTE 2 QPSK BW1.4MHz 1909.3MHz High Ch 19193 6RB-0



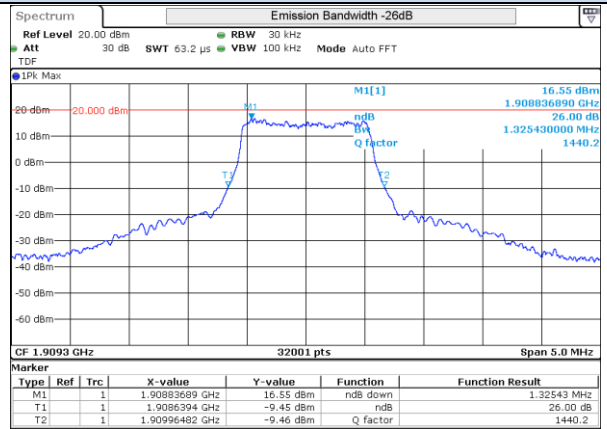
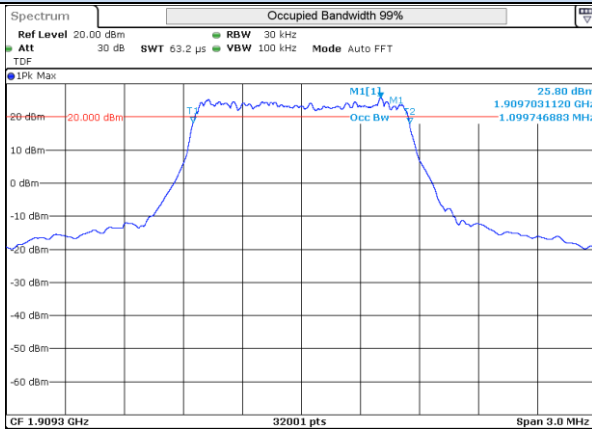
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LTE 2 16QAM BW1.4MHz 1850.7MHz Low Ch 18607 6RB-0



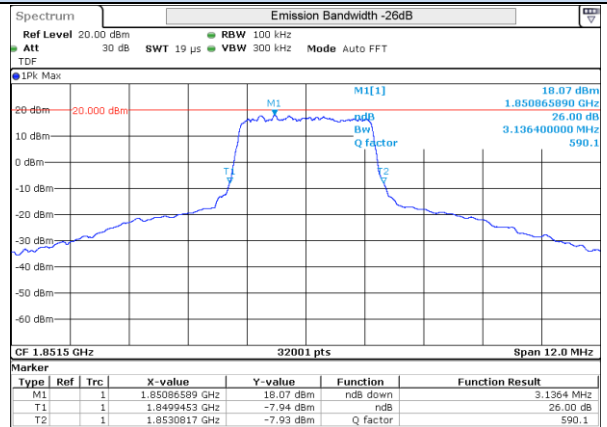
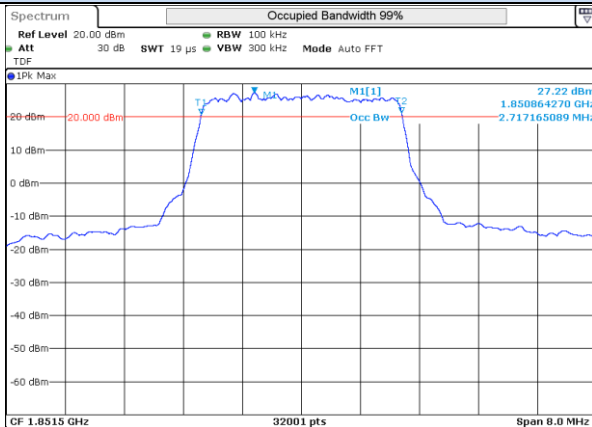
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LTE 2 16QAM BW1.4MHz 1880MHz Mid Ch 18900 6RB-0



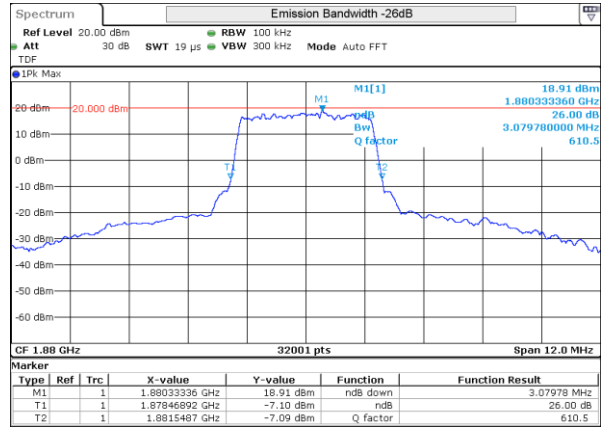
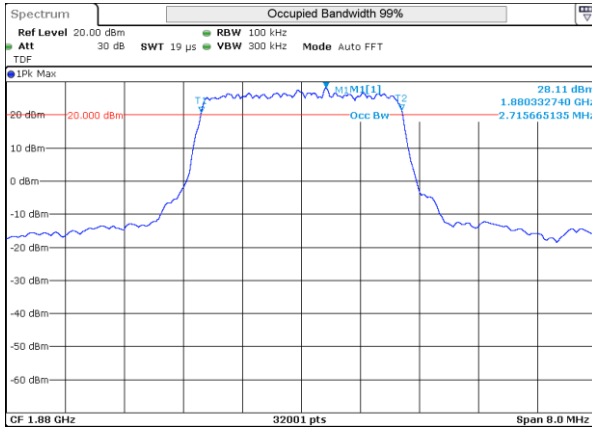
LTE 2 16QAM BW1.4MHz 1909.3MHz High Ch 19193 6RB-0

LTE 2 16QAM BW1.4MHz 1909.3MHz High Ch 19193 6RB-0



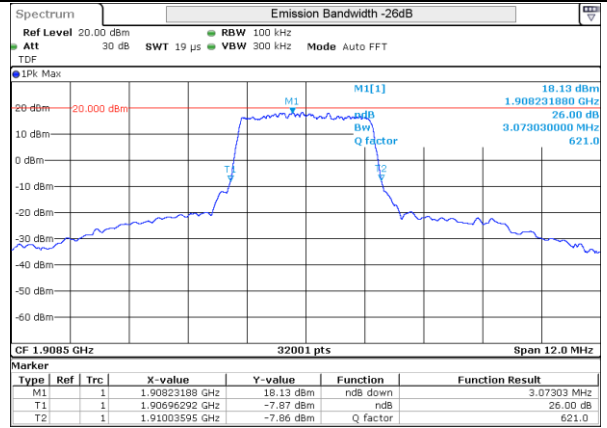
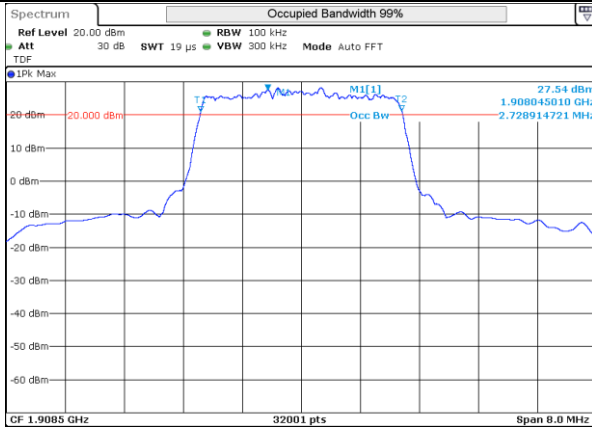
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LTE 2 QPSK BW3MHz 1851.5MHz Low Ch 18615 15RB-0



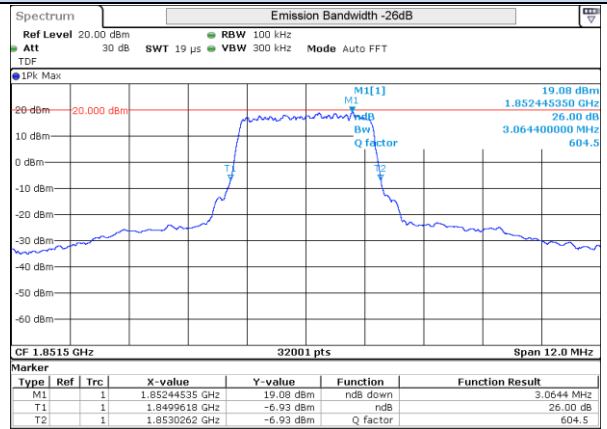
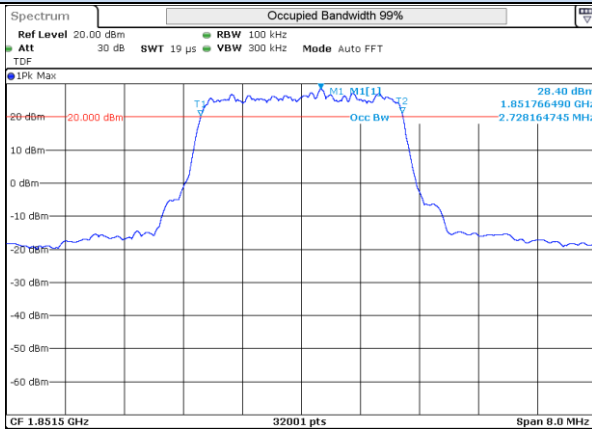
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LTE 2 QPSK BW3MHz 1880MHz Mid Ch 1890 15RB-0



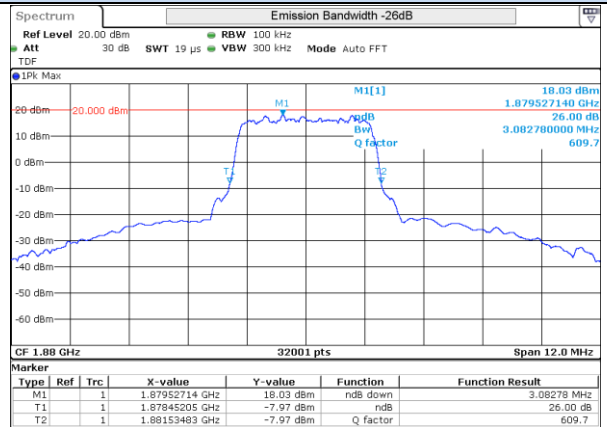
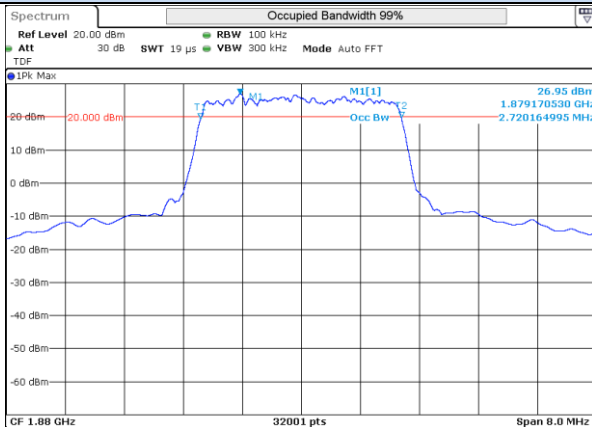
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LTE 2 QPSK BW3MHz 1908.5MHz High Ch 19185 15RB-0



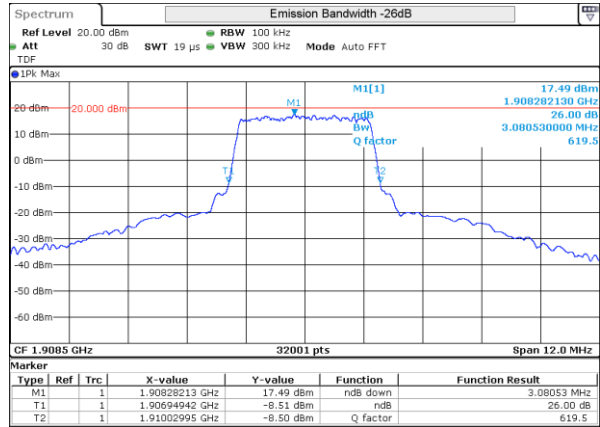
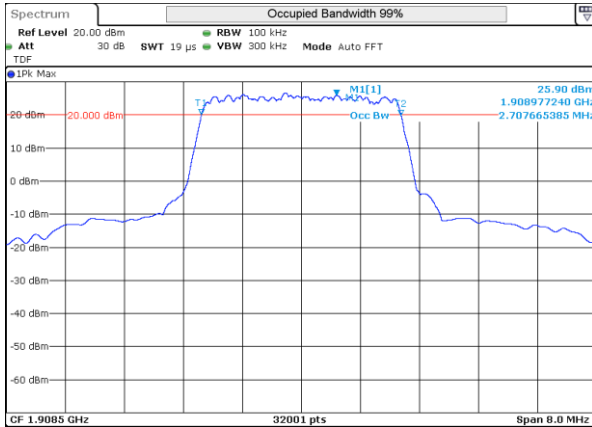
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LTE 2 16QAM BW3MHz 1851.5MHz Low Ch 18615 15RB-0



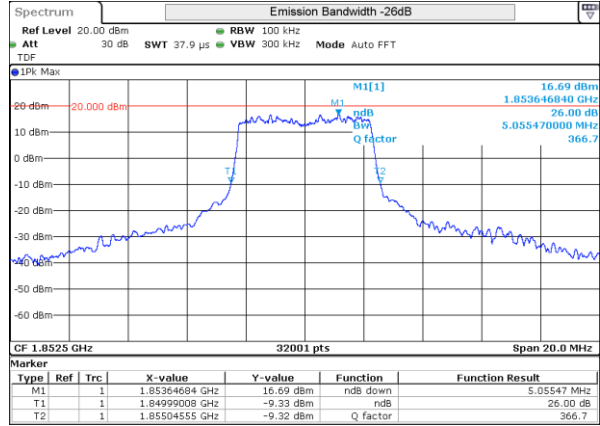
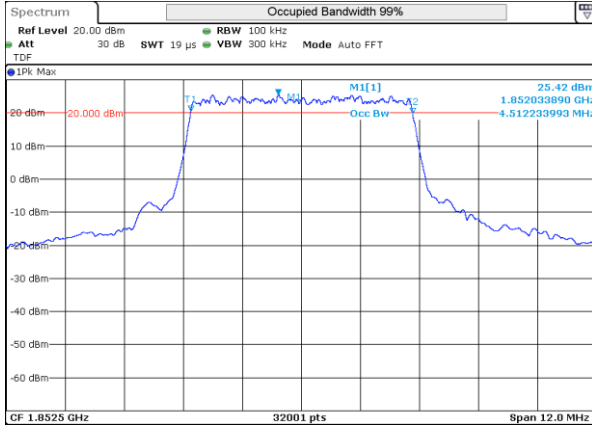
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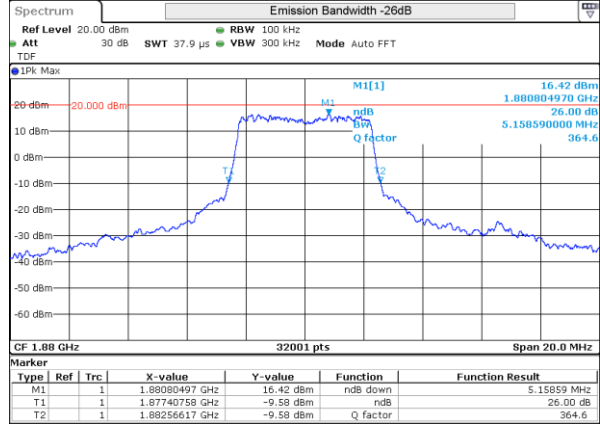
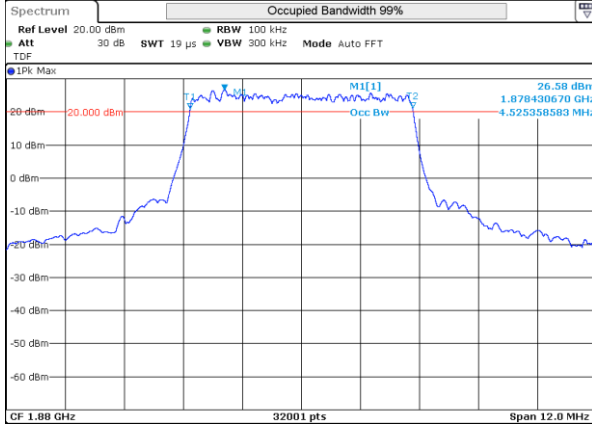
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LTE 2 16QAM BW3MHz 1908.5MHz High Ch 19185 15RB-0



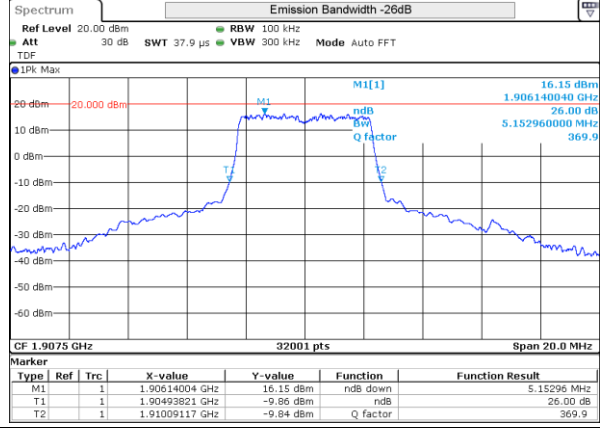
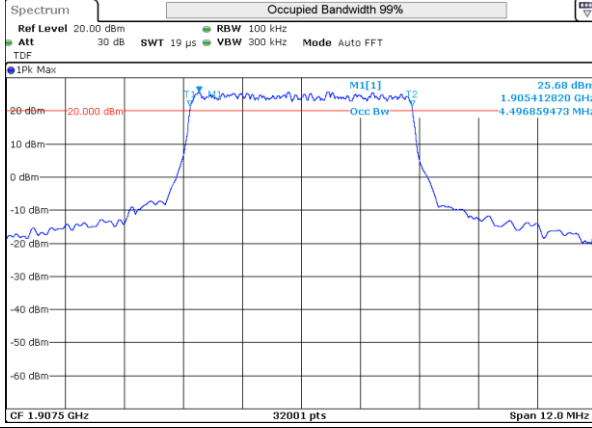
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LTE 2 QPSK BW5MHz 1852.5MHz Low Ch 18625 25RB-0



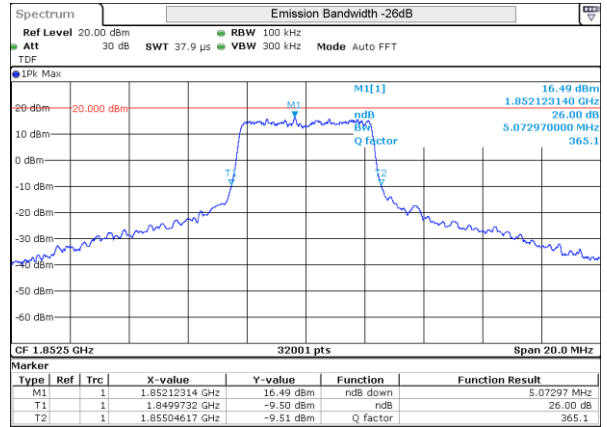
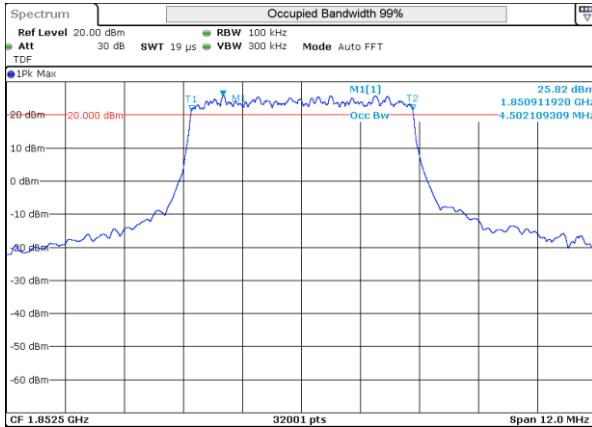
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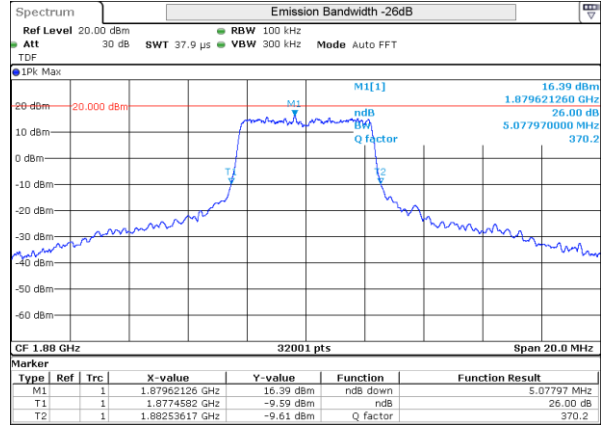
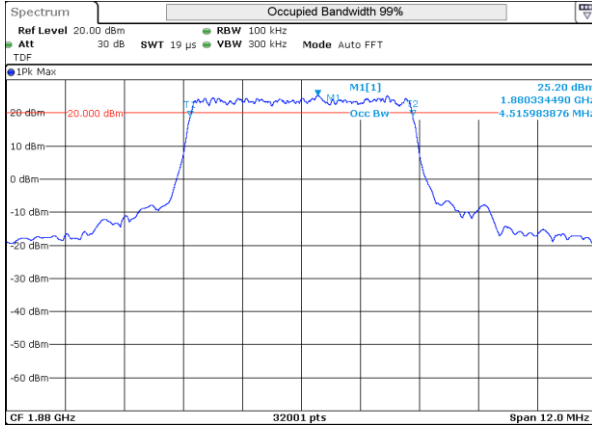
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LTE 2 QPSK BW5MHz 1907.5MHz High Ch 19175 25RB-0



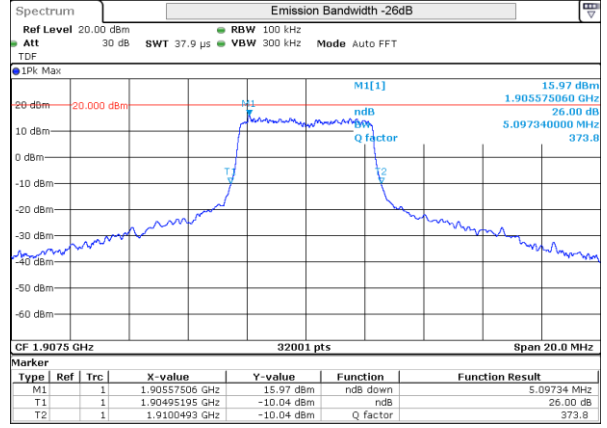
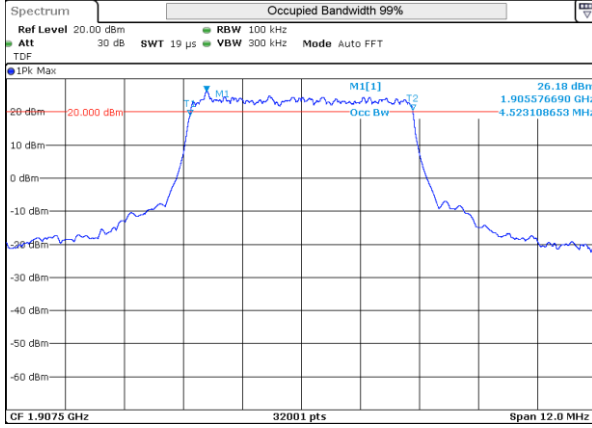
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LTE 2 16QAM BW5MHz 1852.5MHz Low Ch 18625 25RB-0



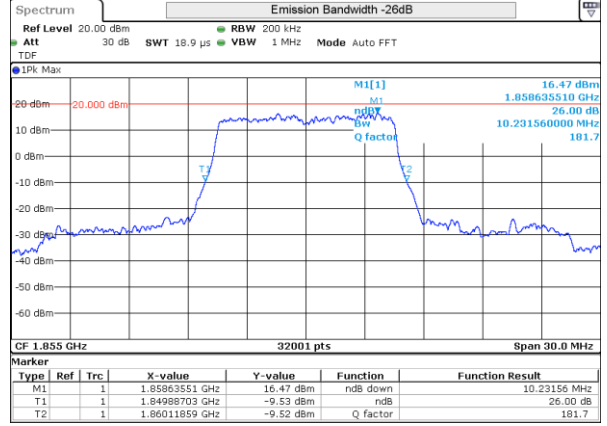
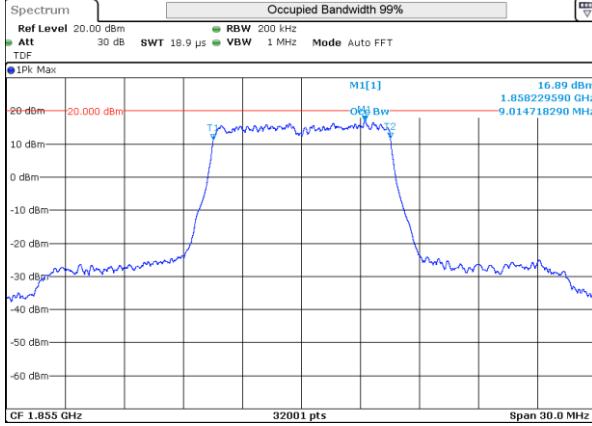
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LTE 2 16QAM BW5MHz 1880MHz Mid Ch 18900 25RB-0



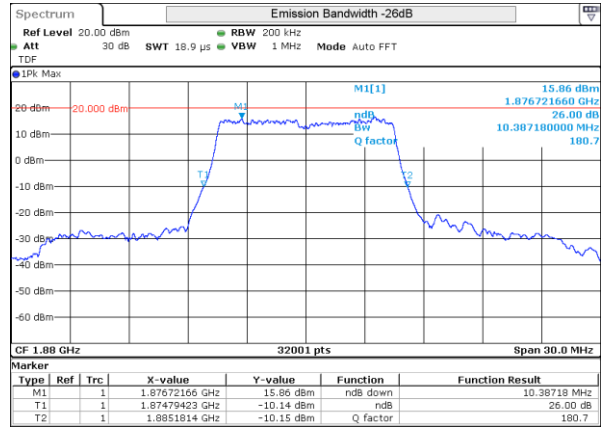
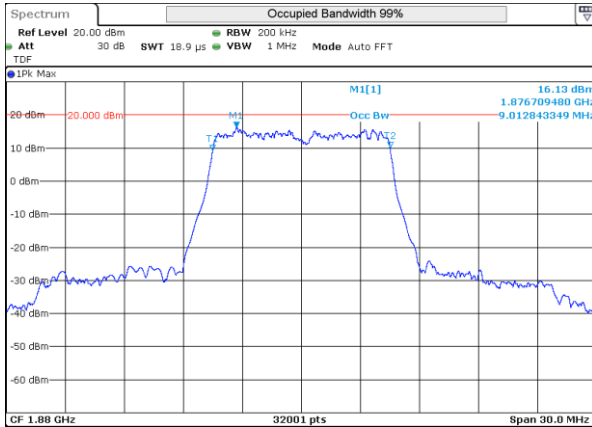
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LTE 2 16QAM BW5MHz 1907.5MHz High Ch 19175 25RB-0



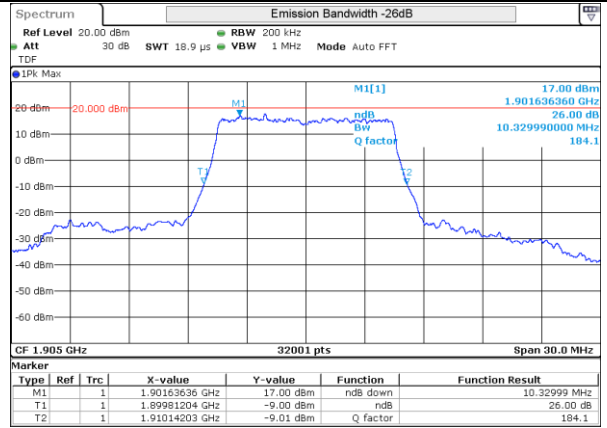
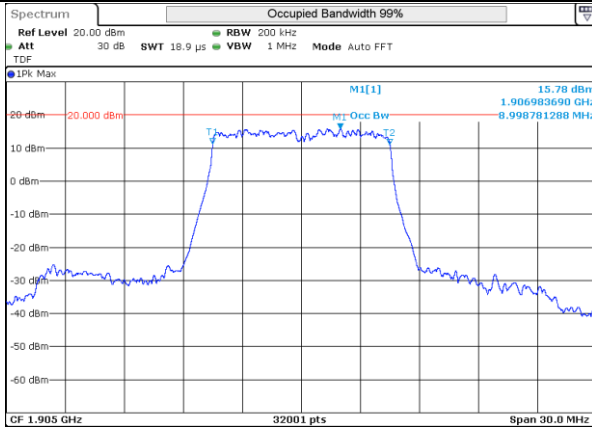
LTE 2 QPSK BW10MHz 1855MHz Low Ch 18650 50RB-0

LTE 2 QPSK BW10MHz 1855MHz Low Ch 18650 50RB-0



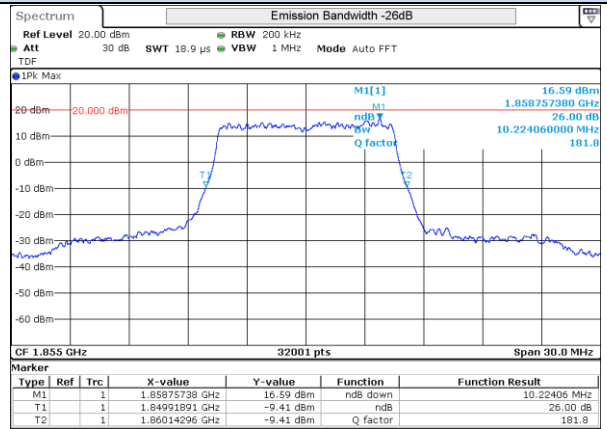
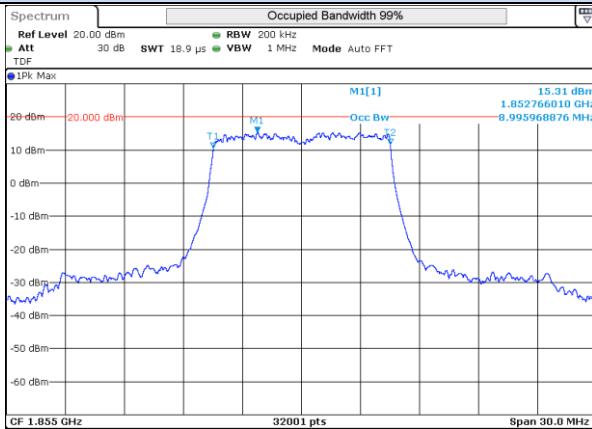
LTE 2 QPSK BW10MHz 1880MHz Mid Ch 1890 50RB-0

LTE 2 QPSK BW10MHz 1880MHz Mid Ch 1890 50RB-0



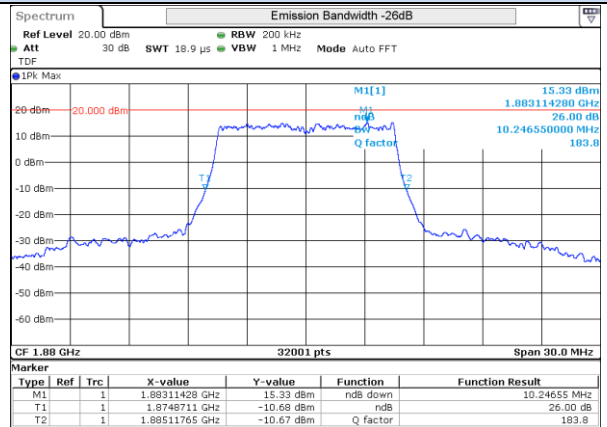
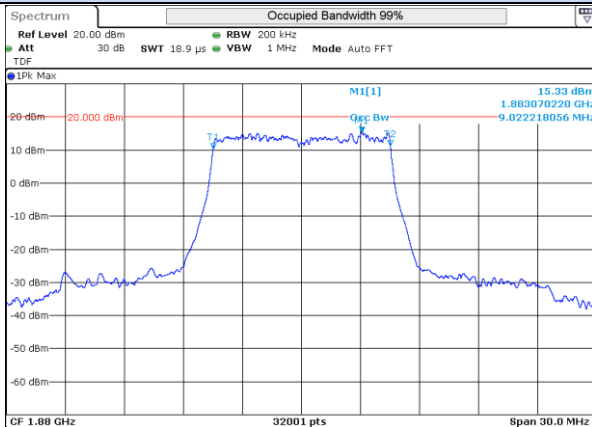
LTE 2 QPSK BW10MHz 1905MHz High Ch 1915 50RB-0

LTE 2 QPSK BW10MHz 1905MHz High Ch 1915 50RB-0



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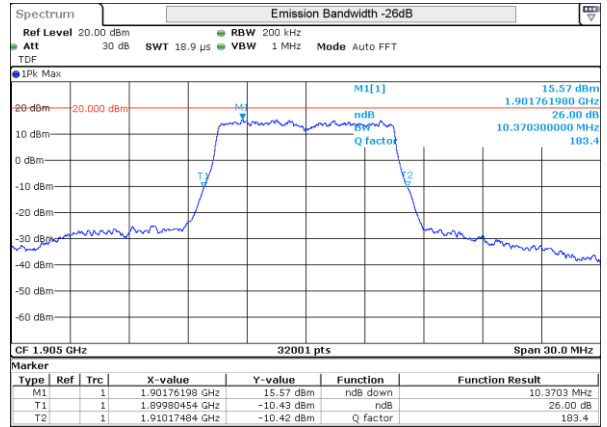
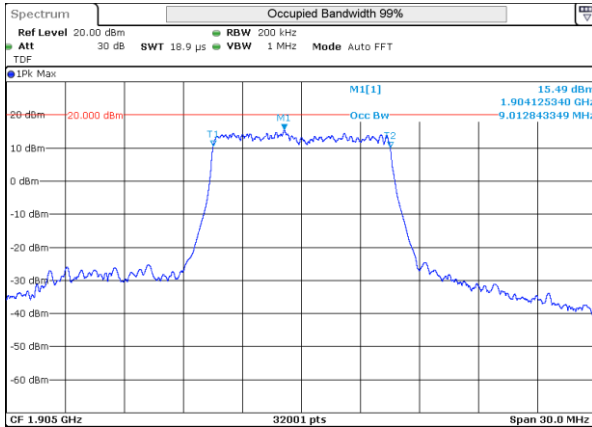


LTE 2 16QAM BW10MHz 1855MHz Low Ch 1865 50RB-0

LTE 2 16QAM BW10MHz 1855MHz Low Ch 1865 50RB-0

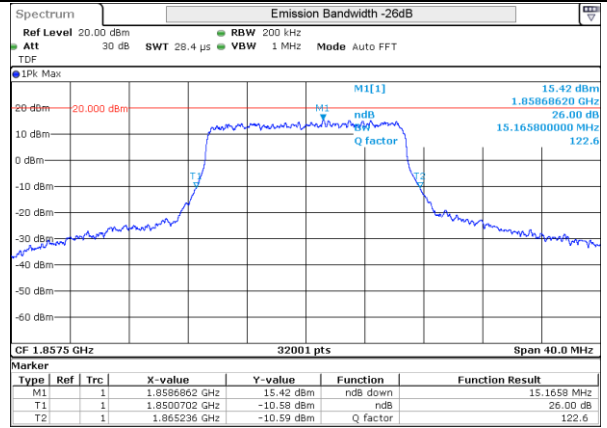
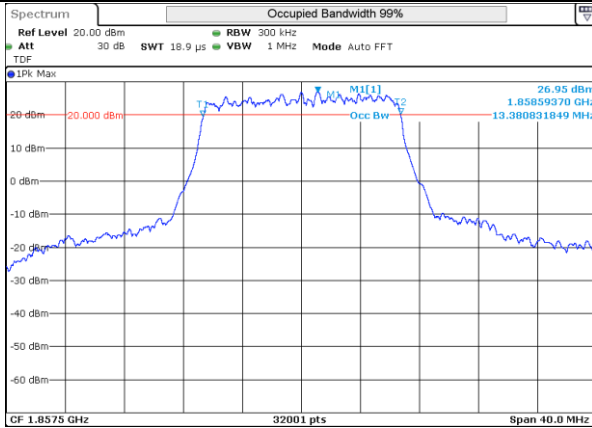
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LTE 2 16QAM BW10MHz 1880MHz Mid Ch 1890 50RB-0



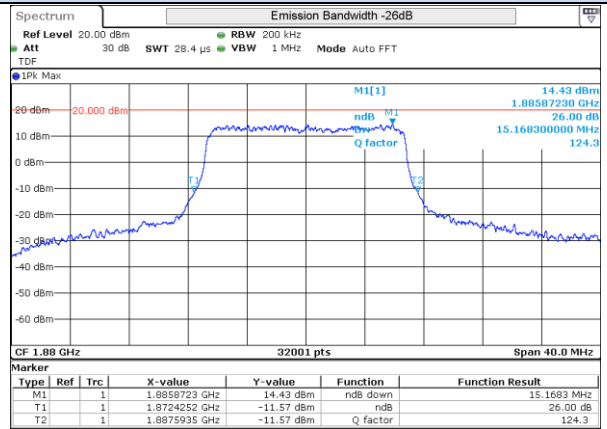
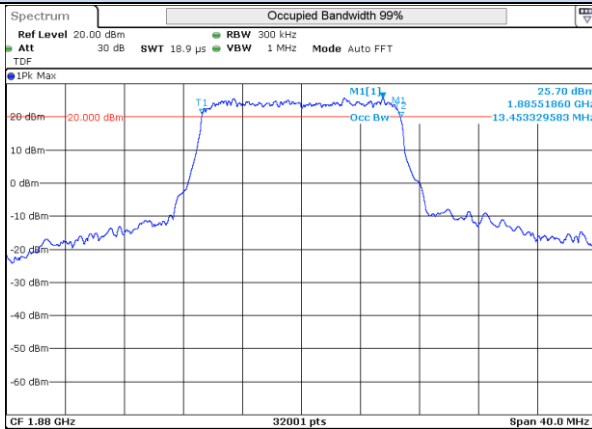
LTE 2 16QAM BW10MHz 1905MHz High Ch 19150 50RB-0

LTE 2 16QAM BW10MHz 1905MHz High Ch 19150 50RB-0



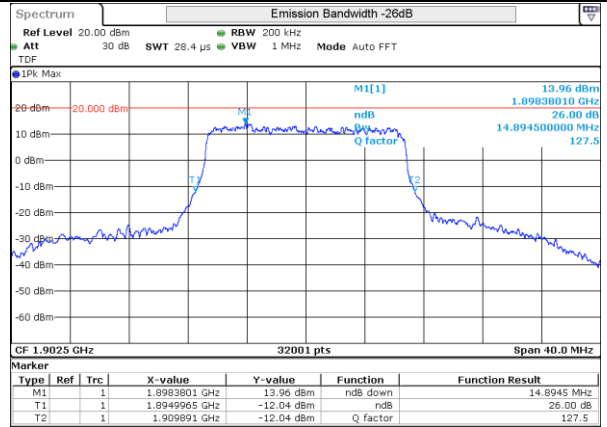
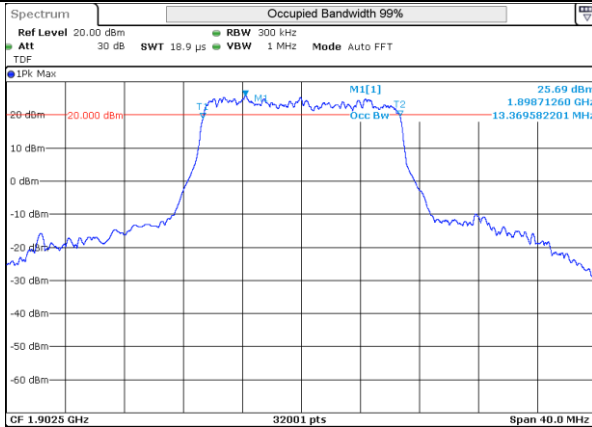
LTE 2 QPSK BW15MHz 1857.5MHz Low Ch 18675 75RB-0

LTE 2 QPSK BW15MHz 1857.5MHz Low Ch 18675 75RB-0



LTE 2 QPSK BW15MHz 1880MHz Mid Ch 18900 75RB-0

LTE 2 QPSK BW15MHz 1880MHz Mid Ch 18900 75RB-0



LTE 2 QPSK BW15MHz 1902.5MHz High Ch 19125 75RB-0

LTE 2 QPSK BW15MHz 1902.5MHz High Ch 19125 75RB-0