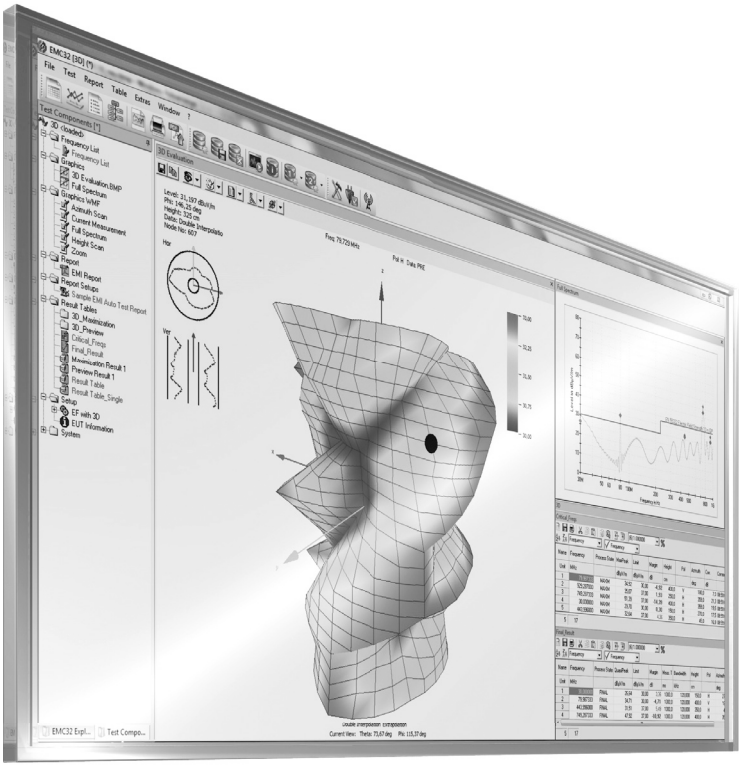
R&S®EMC32
EMC Measurement Software
Specifications



ROHDE&SCHWARZ

Data Sheet | Version 12.00

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Software version

The following specifications are valid for software version 10.50.

User interface languages

The following user interface languages are supported in R&S®EMC32 version 10.50: English, German, French, Spanish, Chinese, Russian, Japanese

System requirements [1]

Operating system	Windows 10 (64-bit) Windows 7 (32/64-bit)
CPU	Intel Core models or compatible models with a core speed > 2.4 GHz
Free RAM	≥ 4 Gbyte
Free hard disk space	≥ 1 Gbyte, usage of SSD recommended
Graphics resolution	≥ 1280 × 1024 pixel, 65536 colors (higher resolution strongly recommended)
Network	100 Mbit LAN interface
National Instrument VISA I/O Library	with optional NI GPIB interface card: Compatible GPIB cards from other manufactures are not supported !
Open source acknowledgement	The R&S®EMC32 measurement software contains open source software packages. Copies of the respective licenses are included in the R&S®EMC32 measurement software open source acknowledgement. Please refer to the download area at http://www.emc32.rohde-schwarz.com/

Base software packages

R&S®EMC32-EB, R&S®EMC32-MEB
EMI measurement software for conducted and radiated emissions

Standards	examples	CISPR
		EN
		ETSI
		FCC
		VCCI
		VDE
		MIL-STD-461
		DEF-STAN
Key features	• measurement of disturbance voltage, disturbance power and disturbance field strength • use in product certification and precompliance testing during development • in line with commercial, automotive and military standards • flexible adaptation to requirements of various EMC applications • libraries of limit lines for various international product standards and correction factors (antenna transducers, probes, LISNs, etc.) • integrated calibration concept • flexible report generator (HTML, RTF, PDF) • EUT-specific or application-specific test storage and data management • software operates as a virtual instrument	

[1] If your PC does not meet these requirements, the performance of the software may be impaired.

Supported devices [2]	test receivers	R&S®ESW
		R&S®ESU
		R&S®ESR
		R&S®ESRP
		R&S®ESCI
		R&S®ESPI
		R&S®ESL
		R&S®ESIB
		R&S®ESCS
		R&S®ESS
		R&S®ESPC
		R&S®ESHS/R&S®ESVS
		R&S®ESAI/R&S®ESBI/R&S®ESMI
		R&S®FSWT
		R&S®FSET
		R&S®ESN/R&S®ESVN
	spectrum analyzers	R&S®FSW
		R&S®FSV
		R&S®FSU
		R&S®FSP
		R&S®FSL
		R&S®FS300 (only 32bit Windows)
		R&S®FSEA/R&S®FSEB/R&S®FSEM/ R&S®FSEK
	antenna masts and turntables	generic tripod
		Deisel HD100
		Innco CO2000
		Innco CO3000 incl. tilt with TPMP
		EMCO/ETS 2090
		ETS EMCENTER
		Frankonia FCTAM01/04/05
		Schaefer HCM/HCT
		SUNOL
		Maturo controller NCD, MCU
		generic mast/turntable
		Orbit/FR turntable
		R&S®DST200 positioner
	slide bars	Deisel / Maturo
		Innco
		Schaefer HCA/RSA
	switch units	R&S®OSP
		R&S®TS-RSP
		R&S®SCIU
		R&S®RSU
		R&S®BBA100
		Teseo OAM01/OAM02
		Bonn RSU
		ADAM 6060
		generic switch unit
	signal generators	R&S®AM300 (only 32bit Windows)
		R&S®SMG/H/Y
		R&S®SME
		R&S®SMT/R&S®SMP
		R&S®SML/R&S®SMV
		R&S®SMR
		R&S®SMA100A/B
		R&S®SMB100A/B
		R&S®SMC100A
		R&S®SMBV100A
		R&S®SMU200A
		R&S®SMJ100A
		R&S®SMF100A
		R&S®SM300 (only 32bit Windows)

[2] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

R&S®EMC32-S, R&S®EMC32MS
EMS measurement software for conducted and radiated susceptibility

Standards	examples	IEC/EN 61000-4-3
		IEC/EN 61000-4-6
		IEC/EN 61000-4-20
		CISPR 24/EN 55024
		EN 60601-1-2
		EN 60601-2-x
Key features	• measurement of radiated and conducted susceptibility • use in product certification and testing during development • in line with commercial, automotive and military standards • flexible adaptation to requirements of various EMC applications • fully automatic control of EMS test system components • integrated calibration concept • various capabilities for EUT monitoring and EUT stimulation • interface to external EUT monitoring software • flexible report generator (HTML, RTF, PDF) • EUT-specific or application-specific test storage and data management • software operates as a virtual instrument	
Supported devices [3]	signal generators	R&S®AM300 (only 32bit Windows)
		R&S®SMG/R&S®SMH/R&S®SMY
		R&S®SME
		R&S®SMT/R&S®SMP
		R&S®SML/R&S®SMV
		R&S®SMR
		R&S®SMA100A/B
		R&S®SMB100A/B
		R&S®SMB100B
		R&S®SMC100A
		R&S®SMBV100A
		R&S®SMU200A
		R&S®SMJ100A
		R&S®SMF100A
		R&S®SM300 (only 32bit Windows)
		R&S®HMF2525
		HM8134
		HM8135
	power meters	R&S®NRP2
		R&S®NRP
		R&S®NRP-Zxx
		R&S®NRPxx-S(N)
		R&S®NRVD
		R&S®NRVS
		R&S®NRX
		R&S®URV5/R&S®NRV/R&S®URY
		R&S®URE3/R&S®URE2/R&S®URE
		Gigatronics 8650
		Agilent E4417/4412A/4413A
		HP8508
	test receivers	R&S®ESW
		R&S®ESU
		R&S®ESR
		R&S®ESRP

[3] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

Supported devices		R&S®ESCI
		R&S®ESPI
		R&S®ESL
		R&S®ESIB
		R&S®ESCS
		R&S®ESS
		R&S®ESPC
		R&S®ESHS/R&S®ESVS
		R&S®ESAI/R&S®ESBI/R&S®ESMI
		R&S®ES(V)N
		R&S®FSWT
		R&S®FSET
	spectrum analyzers	R&S®FSW
		R&S®FSV
		R&S®FSU
		R&S®FSP
		R&S®FSL
		R&S®FS300 (only 32bit Windows)
		R&S®FSEA/R&S®FSEB/R&S®FSEM/ R&S®FSEK
	amplifiers	R&S®BBA100
		R&S®BBA130
		R&S®BBA150
		R&S®BBL200
		Bonn BLWA
		Bonn BLMA
		Bonn BTA
		Bonn BSA
		AR (SCIU controlled)
		AR (TSRSP controlled)
		AR TxGx
		generic amplifier
	switch units	R&S®OSP
		R&S®TS-RSP
		R&S®SCIU
		R&S®RSU
		R&S®BBA100
		Teseo OAM01/OAM02
		Bonn RSU
		ADAM 6060
		generic switch unit
	field sensors	AR IF7000
		ETS HI6100
		Holaday IF4000
		AR FA72xx
		AR FM2000
		AR FM5004
		AR FM7004
		AR FI7000

Supported devices [4]	field sensors	AR IF4000
		ETS HI6xxx
		AR IF-4456
		Narda EMR-200
		Narda EMC-300
		Narda NBM 520/550/580
		PMM EP6xx
		PMM EHP-200
		PMM OR03
		PMM 8053
		Wandel & Goltermann WG20
		Dare RadiSense/RadiCentre
		IFI EFS-6
		Wavecontrol SMP2
		Generic field probe (e.g. Lumiloop LSPROBE 1.2)
	EUT monitoring	generic monitoring
		CE-SYS CECAM
		external PC monitoring
		mk-messtechnik video inserter
		Voelker SVG video inserter
		National Instruments USB 6009
		meM-ADfo
		USB-AD16f
		memM-PIO USB I/O
		R&S®RTO
		R&S®RTM
		R&S®RTE
		R&S®UPL
		R&S®UPV
		R&S®UPP200/R&S®UPP400/ R&S®UPP800
	antenna masts and turntables	generic tripod
		Deisel HD100
		Innco CO2000/CO3000 incl. Tilt with TMPM
		Dare Radicenter
		EMCO 2090
		ETS 2090
		ETS EMCenter
		Frankonia FCTAM01/04/05
		Schaefer HCM/HCT
		SUNOL
		Maturo Controller MCU
		Maturo EAP positioner
		Maturo NCD
		generic mast/turntable
		Orbit/FR turntable
		R&S®DST200 positioner
	interlock devices	R&S®TS-RSP
		R&S®SCIU
		Bonn Amplifier
		meM-PIO USB-I/O
		R&S®OSP
		R&S®BBA100
		R&S®BBA150

[4] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

Options

R&S®EMC32-K1, R&S®EMC32MK1
EMS measurements in line with automotive and military standards

Required R&S®EMC licenses		R&S®EMC32-S
Standard	examples	ISO 11451
		ISO 11452
		MIL-STD-461E/F, CS114
		MIL-STD-461E/F, RS103
		RTCA DO 160 G
		SAE J1113
		SAE J551
		2004/104 EC
		ECE 10 revision 3
		car manufacturer standards
Key features	• enhanced EMS level functions • monitoring of automotive bus systems (CAN, LIN, MOST, FlexRay™) • automatic determination of immunity thresholds • direct power injection measurements • TEM cell attenuation measurement	
Supported devices [5]	arbitrary generators	R&S®AM300 (only 32bit Windows)
		R&S®SMA100A pulse train option
		R&S®SMB100A pulse train option
		R&S®SMF100A pulse train option
		R&S®HMF2525, R&S®HMF2550
		Agilent 33220A/33250A
		Tektronix AFG320
	EUT monitoring	Vector CANoe
		Vector CANalyzer

R&S®EMC32-K2, R&S®EMC32MK2
RSE and ABT measurements on wireless devices

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Standard	examples	ETSI EN 301489-x
		ETSI EN 300607
Key features	• radiated spurious emission (RSE) measurements • audio breakthrough (ABT) measurements • support of filter banks • support of all major wireless technologies	
Supported devices [5]		R&S®CMW500
		R&S®OSP-Fxxx
		R&S®CMU200 [6]
		R&S®CBT32 [6]
		R&S®PTW70 [6]

[5] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

[6] Discontinued product.

R&S®EMC32-K3, R&S®EMC32MK3
EMS measurements in reverberation chambers (mode-tuned method)

Required R&S®EMC32 licenses		R&S®EMC32-S, R&S®EMC32-K4
Standard	examples	IEC/EN 61000-4-21
		Ford ES-XW7T-1A278-AC
		GMW3097
		RTCA DO160
		MIL-STD-461E/F
Key features	• calibration of reverberation chamber (loaded and unloaded) • EUT check • EUT test	
Supported devices [7]		tuner devices and turntable drivers (see R&S®EMC32-EB/R&S®EMC32-S)

R&S®EMC32-K4, R&S®EMC32MK4
EMS auto test

Required R&S®EMC32 licenses		R&S®EMC32-S
Key features	• sequential EUT tests with several parameters (loops) • several modulation modes • several turntable positions • several antenna polarizations	
Supported devices [7]	field probe positioning devices	TDK PP02
		TDK SI200
		Innco FSM2315
		Innco FSM916
		Beckmann Probotic
		Maturo FPP

R&S®EMC32-K6, R&S®EMC32MK6
EMS measurements (CS103, CS104, CS105)

Required R&S®EMC32 licenses		R&S®EMC32-S, R&S®EMC32-K1
Standards		MIL-STD-461E/F, CS103, CS104, CS105
Key features	receiver sensitivity measurements	

R&S®EMC32-K7, R&S®EMC32MK7
generic device drivers

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Key features	support of third-party instruments	
Supported devices [7]	signal generators	generic generator
	power meters	generic power meter
	oscilloscopes (for EUT monitoring)	generic oscilloscope
	spectrum analyzers	generic analyzer
	test receivers	generic receiver

R&S®EMC32-K8, R&S®EMC32MK8
interface to lab management systems

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Key features	• interface to dacore LabMan RS lab management software • interface to other products on request	
Supported devices [7]		dacore LabMan RS

[7] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

R&S®EMC32-K10, R&S®EMC32MK10
EMI autotest

Required R&S®EMC32 licenses		R&S®EMC32-EB
Key features	• test sequence for fully automatic, reproducible EMI measurements • preview measurement, data reduction and determination of critical frequencies • system check • stop/continue autotest flow • automatic report generation	
Supported devices [8]	spectrum analyzers	generic analyzer
	test receivers	generic receiver

R&S®EMC32-K10A
EMI autotest extension for spurious measurements

Required R&S®EMC32 licenses		R&S®EMC32-EB and EMC32-K10
Key features	• extension to perform the spurious measurements in line with EN 300328, EN 301893 and EN 302502	

R&S®EMC32-K11, R&S®EMC32MK11
test sequencer

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Key features	• sequential test runs for both EMI and EMS measurements • test plan for different categories • individual and comprehensive reports in line with customer requirements	

R&S®EMC32-K21, R&S®EMC32MK21
application interface

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Key features	• automation of additional measurements using EMC test system • intuitive macro language for test sequence control with − mathematical operations − call of subprograms; access to remote interface (GPIB, LAN) • use as standalone test, action or EUT monitoring device	

R&S®EMC32-K22, R&S®EMC32MK22
azimuth chart

Required R&S®EMC32 licenses		R&S®EMC32-EB
Key features	• measurement of radiation pattern (2D) • display as polar diagram (azimuth chart) • passive antenna measurement	

R&S®EMC32-K23, R&S®EMC32MK23
3D result evaluation

Required R&S®EMC32 licenses		R&S®EMC32-EB, R&S®EMC32-K10
Key features	• evaluation of preview and/or maximization results of radiated OATS measurements • 3D chart (cylindrical coordinate characterization) for a specific frequency • easy chart generation using drag & drop • interactive rotation of chart • smooth scaling, zooming and interpolation • display of horizontal and vertical cuts	

[8] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

R&S®EMC32-K24, R&S®EMC32MK24 interactive EMI auto test

Required R&S®EMC32 licenses		R&S®EMC32-EB, R&S®EMC32-K10
Key features	• interactive verification of critical frequencies and final measurement results • repetition of auto test measurement steps for selected frequencies	

R&S®EMC32-K251, R&S®EMC32MK251 RSE and ABT measurements on TD-SCDMA devices

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB, R&S®EMC32-K2, R&S®EMC32-K10
Standard	examples	ETSI EN 301489
		ETSI EN 300607
Key features	measurement on TD-SCDMA devices	
Supported devices [9]		R&S®CMW500

R&S®EMC32-K26, R&S®EMC32MK26 RSE and ABT measurements on LTE devices

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB, R&S®EMC32-K2, R&S®EMC32-K10
Standard	examples	ETSI EN 301489
		ETSI EN 300607
Key features	measurement on LTE devices	
Supported devices [9]		R&S®CMW500
		R&S®OSP with R&S®OSP-B155

R&S®EMC32-K27, R&S®EMC32MK27 dual receiver measurement

Required R&S®EMC32 licenses		R&S®EMC32-EB, R&S®EMC32-K10
Standards		all commercial EMI standards
Key features	• support of two receivers simultaneously e.g. one horizontal, the other vertical • reduced measurement time • versatile measurement modes • automatic antenna angle offset • separate receivers for antennas • sweep data from two receivers saved separately and merged before data reduction	
Supported devices [9]	Two receivers of the same product line required. Examples: R&S®ESW8 and R&S®ESW44 or R&S®FSV4 and R&S®FSV40	refer to R&S®EMC32-EB

[9] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

R&S®EMC32-K33, R&S®EMC32MK33
EMI measurements in reverberation chambers (mode-tuned method)

Required R&S®EMC32 licenses		R&S®EMC32-EB and R&S®EMC32-K10
Standard	examples	EN 61000-4-21 annex E
Key features	• preview measurement for different tuner steps in defined frequency subranges • calculation and display of the DUT's radiated power and estimated free-space field strength • optional data reduction to mark critical frequencies compared to limit line • use of chamber calibration data and DUT check data from R&S®EMC32-K3 susceptibility section	
Supported devices [10]		tuner devices and turntable drivers (see R&S®EMC32-EB/R&S®EMC32-S)

R&S®EMC32-K35, R&S®EMC32MK35
EMS measurements on multimedia receivers

Required R&S®EMC32 licenses		R&S®EMC32-S and R&S®EMC32-K35 [11]
Standard		CISPR 35
Key features	• control of broadcast generators • automatic adaptation of immunity shape taking into account tuner frequency range, tuned channel and spot tests • sound reference measurement	
Supported devices [10]		R&S®BTC
		R&S®SFE/R&S®SFE100, R&S®SFU, R&S®VTC, R&S®VTE, R&S®VTS, R&S®DVSG

R&S®EMC32-K37, R&S®EMC32MK37
EMS autotest: extension for sequences of multimedia tests

Required R&S®EMC32 licenses		R&S®EMC32-S, R&S®EMC32-K4, R&S®EMC32-K35
Key features	• extension to perform sequences of multimedia tests on broadcast receivers in line with CISPR 35 (R&S®EMC32-K35) • sequential EUT tests with several parameters (loops) − multimedia test type (audio or display), − multimedia broadcast channel (as supported by the selected broadcast generator instrument) − multimedia test port (as defined in the selected EUT Information file)	

R&S®EMC32-K48, R&S®EMC32MK48
shielding effectiveness test

Required R&S®EMC licenses		R&S®EMC32-S, R&S®EMC32-K4
Standard	examples	IEEE 299
		MIL-STD-285
		MIL-STD-188-125-1
		BS EN 50147-1
		ASTM D4935-10
		IEC 62153-4-6
		other standards similar to the above
Key features	• automatic settings for optimized dynamic range • automatic settings for signal generation • control switching of signal generators and antennas • display of real time shielding effectiveness test results • automatic report generation	

[10] Please check the R&S®EMC32 installation CD for the operating system and the required firmware versions of the test instruments. Support of other devices on request.

[11] Some EMI measurements in line with CISPR 32 using R&S®EMC32-EB are also supported.

R&S®EMC32-K51, R&S®EMC32MK51
EMI band evaluation

Required R&S®EMC32 licenses		R&S®EMC32-EB
Standard	examples	Ford ES-XW7T-1A278-AC
		GMW 3091
		GMW 3097
Key features	on-board EMI measurement sequence in broadband and communications frequency bands for automotive and aerospace applications	

R&S®EMC32-K52, R&S®EMC32MK52
Limit line based measurement sequence

Required R&S®EMC32 licenses		R&S®EMC32-EB, R&S®EMC32-K51
Standard		various automotive manufacturers' standard
Key features	• evaluation of measurement result against several, overlapping limit lines • reference lines for comparison of measurement results to previous measurements or reference measurements	

R&S®EMC32-K56, , R&S®EMC32MK56
EMI measurements on transmitters (in transmit mode)

Required R&S®EMC32 licenses		R&S®EMC32-EB, R&S®EMC32-K10
Standard	examples	MIL-STD-461E/F/G, CE106
		MIL-STD-461E/F/G, RE103
Key features	• preview measurement with determination of fundamental frequency either automatically or via operator input • calculation and display of required limit line with increased margin level depending on harmonics number • optional data reduction to mark critical frequencies compared to limit line	

R&S®EMC32-K61
device driver for compact conducted susceptibility tester

Required R&S®EMC32 licenses		R&S®EMC32-S, R&S®EMC32-K1 for automotive testing
Key features	• support for controlling internal RF generator, power meter, amplifier and switching unit support for measurements in line with EN 61000-4-6 (R&S®EMC32-S) support for measurement in line with ISO 11452-4 (BCI) (requires R&S®EMC32-K1)	
Supported devices	• emtest CWS500N2 (firmware 3.22a03) via USB or GPIB	

R&S®EMC32-K84, R&S®EMC32MK84
report interface to word processing apps

Required R&S®EMC32 licenses		R&S®EMC32-S and/or R&S®EMC32-EB
Key features	• summary test report over a test session for a single EUT − report based on Word .dotx files referencing R&S®EMC32 report components via field text commands − main report section with test summary table − sub reports based on application specific sub report templates .dotx − easy selection of tests to be included in the summary report • single test report extension to output report as a Word .docx file	

R&S®EMC32-K974
remote control interface for R&S®EMC32, R&S®AMS32 and R&S®WMS32

Required R&S®EMC32 licenses		R&S®EMC32-EB and/or R&S®EMC32-S
Key features	• load test • start test • stop test • pause test • save test	

Software upgrade options

R&S®EMC32-U9E
option for upgrade of emission base software to version 9.xx and 10.0

Key features	• upgrade from R&S®EMC32-EB/R&S®EMC32-E/ R&S®EMC32-E+ version 8.xx or lower to version 9.xx and 10.0

R&S®EMC32-U9S
option for upgrade of susceptibility base software to version 9.xx and 10.0

Key features	• upgrade from R&S®EMC32-S version 8.xx or lower to version 9.xx and 10.0

R&S®EMC32-UP9
option for upgrade of emission and susceptibility base software to version 9.xx and 10.0

Key features	• upgrade from R&S®EMC32-A/R&S®EMC32-A+/R&S®EMC32-C/R&S®EMC32-W+ version 8.xx or lower to version 9.xx and 10.0

Ordering information

Designation	Type	Order No.
Base software		
EMI measurement software, for conducted and radiated emissions	R&S®EMC32-EB	1300.7010.02
EMS measurement software, for conducted and radiated susceptibility	R&S®EMC32-S	1119.4638.02
Options		
EMS measurements in line with automotive and military standards	R&S®EMC32-K1	1147.5493.02
RSE and ABT measurements on wireless devices	R&S®EMC32-K2	1147.5506.02
EMS measurements in reverberation chambers (mode-tuned method)	R&S®EMC32-K3	1147.5512.02
EMS auto test	R&S®EMC32-K4	1147.5529.02
EMS measurements (CS103, CS104, CS105)	R&S®EMC32-K6	1147.5541.02
Generic device drivers	R&S®EMC32-K7	1144.5134.02
Interface to lab management systems	R&S®EMC32-K8	1117.7652.02
EMI auto test	R&S®EMC32-K10	1117.6840.02
EMI auto test extension for spurious measurements	R&S®EMC32-K10A	1527.1050.02
Test sequencer	R&S®EMC32-K11	1117.6862.02
Application interface	R&S®EMC32-K21	1117.7630.02
Azimuth chart	R&S®EMC32-K22	1117.7646.02
3D Result evaluation	R&S®EMC32-K23	1504.9190.02
Interactive EMI auto test	R&S®EMC32-K24	1518.3202.02
RSE and ABT measurements on TD-SCDMA devices	R&S®EMC32-K251	1520.5250.02
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