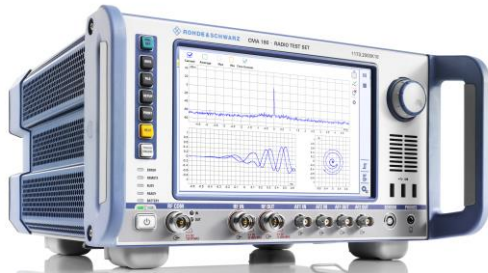


# R&S®CMA180 Radio Test Set

## Ultimate RF testing solution



### The perfect choice for

Servicing and maintaining analog and digital radios

Testing onboard aircraft equipment

Service testing of GNSS receivers

Recording and playing back proprietary signals

### Key specifications

Frequency range	0.1 MHz to 3000 MHz
RF bandwidth	20 MHz
Modulation, analog and digital	AM, FM, PM, SSB P25, NXDN, DMR, MSK, FSK
Max. input power	100 W (cont.)   150 W (1 min.)
Signal level for receiver measurements	power can be lowered to -140 dBm
Generator phase noise	-110 dBc/Hz or better at 10 kHz offset
I/Q recorder	min. sample rate = 500 Hz, up to 64 Msample
ARB generator	4 Gbyte
Avionics	ILS, VOR, MB, VOIP

### Truly uncompromised in flexibility

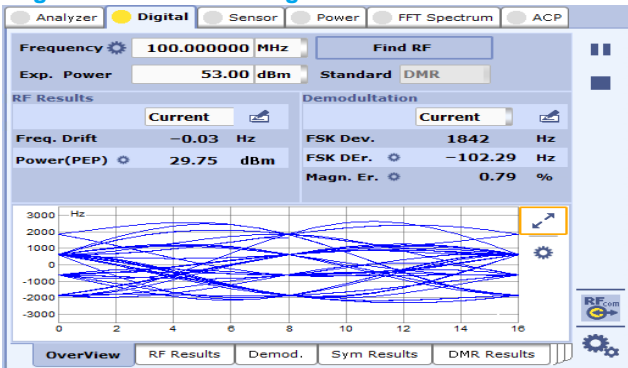
The R&S®CMA180 is a radiocommunications tester for radio systems that operate in the 100 kHz to 3 GHz range. Its technology is based fully on digital signal processing and advanced computing. Intuitive operation and efficient measurement capabilities make the R&S®CMA180 an indispensable tool for performing radio measurements.

Your benefit	Features
No trade-offs	<ul style="list-style-type: none"> <li>Easy and intuitive touch user interface</li> <li>Analog modulation and demodulation</li> <li>Up to 150 W peak input power</li> <li>Integrated audio generators</li> <li>Integrated sweeping spectrum analyzer, tracking generator and oscilloscope</li> <li>Audio quality tests</li> <li>AGNSS generator: GPS, GLONASS, GALILEO, BEIDOU</li> <li>Built-in sequencer tool, R&amp;S®CMArun</li> </ul>
Avionics integrated	<ul style="list-style-type: none"> <li>AM communications tester</li> <li>ILS/VOR and marker beacon generator</li> <li>VoIP (ED-137B) generator and analyzer</li> </ul>
Digital flexibility	<ul style="list-style-type: none"> <li>I/Q recorder and ARB generator</li> <li>Digital signal analysis</li> <li>Digital generators for DMR, APCO and NXDN</li> </ul>

► For more information, visit [www.rohde-schwarz.com/catalog/CMA180](http://www.rohde-schwarz.com/catalog/CMA180)

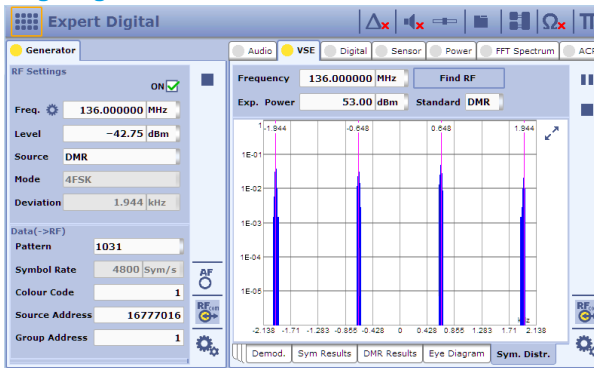
## Extensive measurement functionality

### Digital transmitter testing



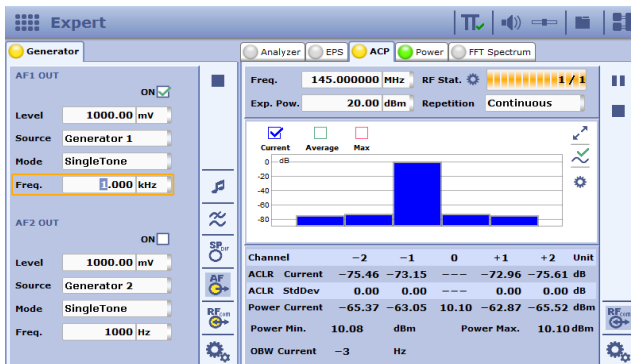
DMR transmitter testing with demodulation results, eye diagram, symbol distribution and RF results

### Digital generator for receiver tests



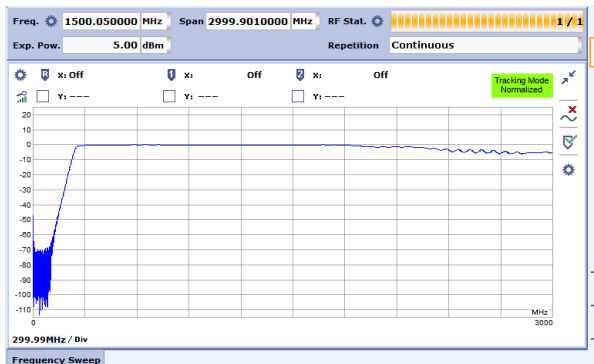
Generation of DMR signals in line with ETSI and other digital standards

### Adjacent channel power (ACP) and occupied bandwidth



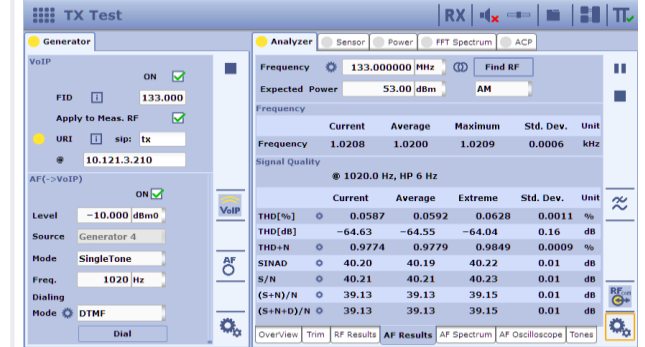
Measuring adjacent channel power and occupied bandwidth

### Tracking generator

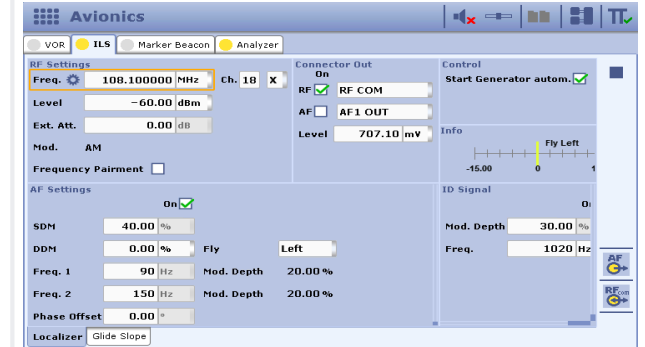


Measuring and tuning RF filters with the built-in tracking generator

## Diverse, future-ready configuration options



Integrated VoIP generator for testing air traffic controller equipment in line with ED-137B



Instrument landing system (ILS) features integrated into the R&S®CMA180 for airborne instrument testing

## Popular options

Hardware options	Type
Baseband generator, 4 Gbyte	R&S®CMA-B110D
Software options	
Spectrum analyzer & tracking generator	R&S®CMA-K120
ILS/VOR generator	R&S®CMA-K130
I/Q recorder	R&S®CMA-K220
Accessories	
Transit case	R&S®CMA-Z020A
Soft case	R&S®CMA-Z025A