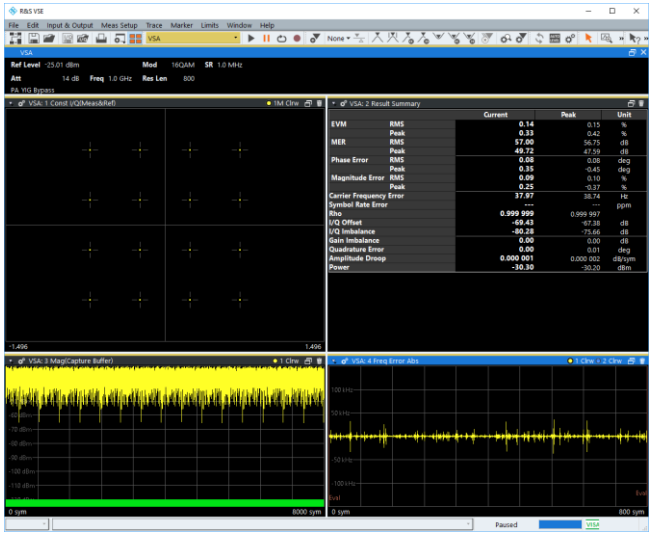
R&S®VSE-K70 Vector Signal Analysis

Flexible modulation analysis down to the bit level



Flexible modulation analysis down to the bit level

The R&S®FSW-K70 option analyzes digitally modulated single-carrier signals down to the bit level. The clearly structured operating concept simplifies measurements despite the wide range of analysis tools.

Numerous standard-specific default settings, including

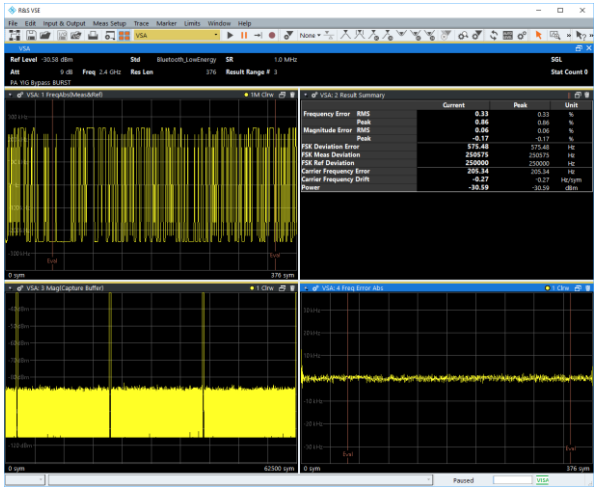
- User-definable constellations and mappings
- GSM, GSM/EDGE
- 3GPP WCDMA, EUTRA/LTE, CDMA2000®
- TETRA, APCO25
- Bluetooth®, ZigBee
- DECT
- DVB-S2

Key specifications	
Modulation formats:	• 2FSK, 4FSK • MSK, GMSK, DMSK • BPSK, QPSK, offset QPSK, DQPSK, 8PSK, D8PSK, π/4-DQPSK, 3π/8-8PSK, π/8-D8PSK • 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 1024QAM, 2048QAM, 4096QAM • 16APSK (DVB-S2), 32APSK (DVB-S2), 2ASK, 4ASK, π/4-16QAM (EDGE), –π/4-16QAM (EDGE), SOQPSK

Common uses
Troubleshooting digital transmitters and signal path components
Analysis of digital modulation signals
Finding signal errors such as incorrect filtering and spurious emissions
Equalizer helps in finding the optimum filter design
Signal transmitter characterization
Bit error calculation on known data sequences

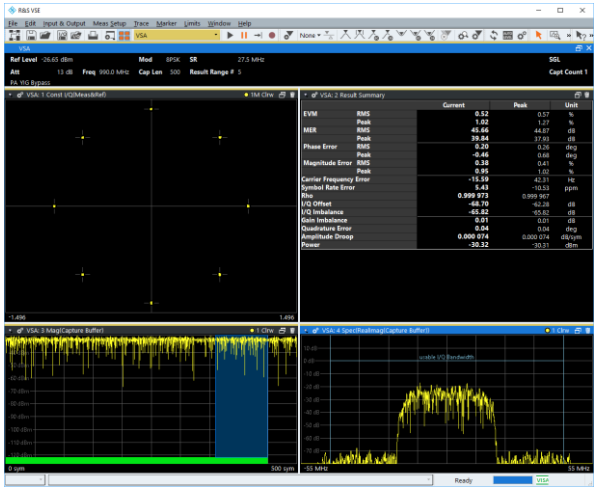
▷ For more information,
see www.rohde-schwarz.com/product/FPL1000

Analysis of Bluetooth Low Energy signal



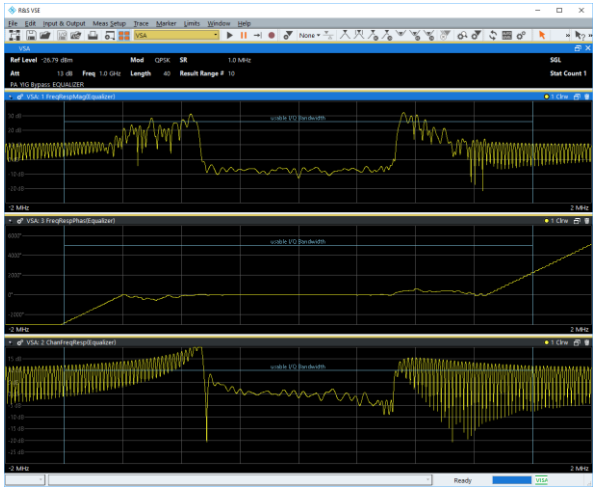
Analysis of a Bluetooth Low Energy signal. FSK modulation with 250 kHz deviation.

Analysis of a DVB-S2 signal



Analysis of a DVB-T2 signal with the R&S®VSE-K70 VSA. 8PSK modulation with 27.5 MHz symbol rate.

Characterizing the channel with the equalizer



In-depth analysis of a transmission channel with the built-in equalizer function

Ordering information	
R&S®VSE	VSE base software
R&S®VSE-K70	Vector signal analysis
R&S®FSPC	License dongle
R&S®VSE-SWM	VSE software maintenance
Instruments supported by R&S®VSE-K70 include	
R&S®FPL1003	Spectrum analyzer, 5 kHz to 3 GHz
R&S®ZNL3 (requires option R&S®ZNL-B1)	Vector network analyzer, two ports, 3 GHz

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PD 5215.3627.32 | Version 01.00 | September 2017 (ms)

R&S®VSE-K70 Vector Signal Analysis
Data without tolerance limits is not binding | Subject to change