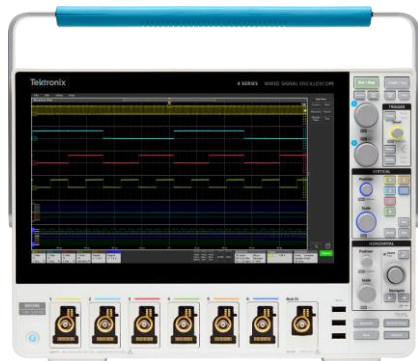




# Tektronix 4 Series B MSO vs. Rohde & Schwarz MXO44

## COMPETITIVE FACT SHEET



Tektronix 4 Series B MSO



Rohde & Schwarz MXO44

### Bandwidth and Sample Rate

#### Tektronix 4 Series B MSO

- ✓ Full BW and 6.25 GS/s Sample Rate on **ALL channels**

#### R&S MXO44

- ✗ **HALF Sample Rate (2.5 GS/s)** and **reduced BW** when 3/4 channels used

### User Interface

#### Tektronix 4 Series B MSO

- ✓ **Award-winning** UI optimized for quickly finding insights
- ✓ **Native Touch** navigation with double-tap, tap-and-hold, and a shallow menu structure

#### R&S MXO44

- ✗ UI **adapted** from RTO platform
- ✗ **Basic touch** controls with low flexibility, nested menus, and a search bar

### Everyday Analysis

#### Tektronix 4 Series B MSO

- ✓ **Unlimited** Math and Ref waveforms
- ✓ **Visual Trigger, Waveform Tolerances, and Mask Test**
- ✓ **Advanced Math** with equation editor
- ✓ **Waveform search**
- ✓ Measurement and Waveform Histograms

#### R&S MXO44

- ✗ **Limited** to 5 Math and 4 Ref waveforms
- ✗ **Not available**
- ✗ **Simple Math** operators
- ✗ **Not available**
- ✗ **No standard** graphical data displays

### RF Analysis

#### Tektronix 4 Series B MSO

- ✓ Spectrum Analysis with **digital downconversion**
- ✓ **Fully independent** time and frequency domains
- ✓ Analyze with Spectrum View on **ALL 4 or 6 channels**

#### R&S MXO44

- ✗ Traditional **post-processed FFT**
- ✗ Dedicated RF controls, but **changes impact time domain**
- ✗ FFT available on **one channel only**

### Power Analysis

#### Tektronix 4 Series B MSO

- ✓ **Automated measurements** for input/output, analysis, switching analysis, and magnetics
- ✓ Display and analyze **power harmonics, switching loss trajectory, and safe operating area**
- ✓ Extensive support for **wide-bandgap SiC/GaN** designs, including double-pulse test
- ✓ Full analysis suite for 3-Phase Power

#### R&S MXO44

- ✗ **Input analysis only**
- ✗ **Harmonics display and analysis only**
- ✗ **Not available**
- ✗ **Not available**





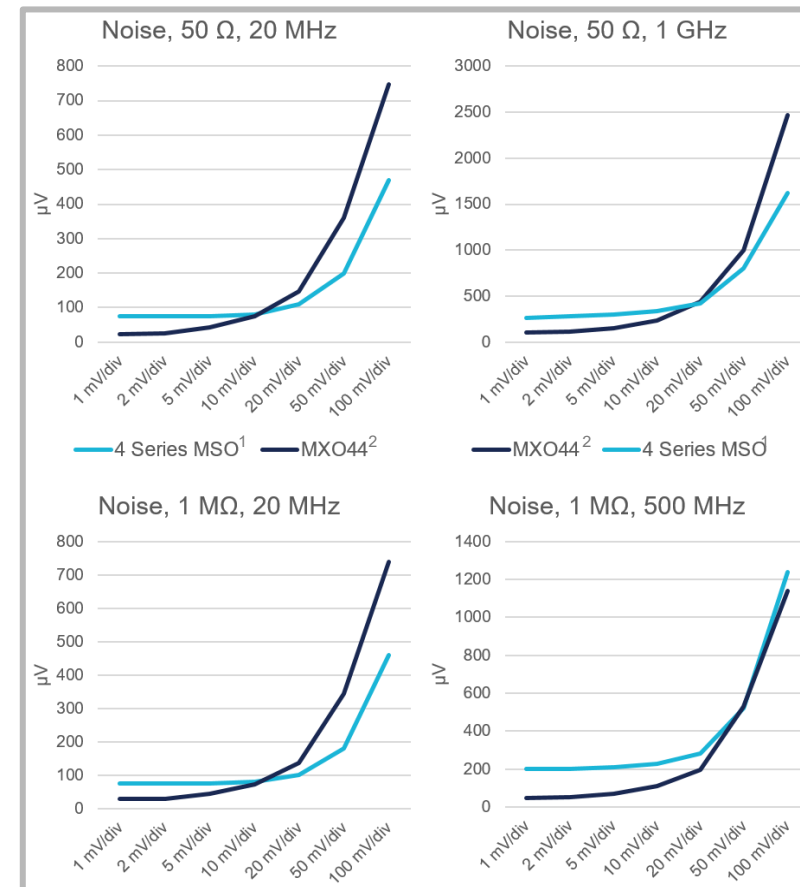
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### Key Specifications Comparison

	Tektronix 4 Series B MSO		Rohde & Schwarz MXO44	
Max Bandwidth (on <u>two</u> / <u>four</u> / <u>six</u> channels)	✓	1.5 GHz / 1.5 GHz / 1.5 GHz	✗	1.5 GHz / 700 MHz / N/A
Analog Sample Rate (on <u>two</u> / <u>four</u> / <u>six</u> channels)	✓	6.25 GS/s / 6.25GS/s / 6.5 GS/s	✗	5 GS/s / 2.5 GS/s / N/A
Number of Digital Channels	✓	Up to 48 – with FlexChannel probes (6x TLP058)	✗	MSO option provides only 16 digital channels
Number of Math / Ref waveforms / Measurements	✓	Unlimited (until memory runs out)	✗	5 math / 4 ref / 16 measurements
Automated Search and Mark Functionality	✓	On all Trigger and Decode Bus Events	✗	Search on Serial Decode Events (no trigger events)
Optional Arbitrary Function Generator (AFG)	✓	Yes – 50 MHz	✓	Yes, 2x 50 MHz
Optional DVM/ Trigger Freq. Counter	✓	Yes – Free with Registration	✗	No DVM / Counter option
Standard Record Length	✗	31.25 Mpts on up to <u>six</u> channels	✓	400 Mpts on <u>four</u> channels
Maximum Waveform Capture Rate	✗	>500,000 wfms/second	✓	>4,000,000 wfms/second
DC Gain Accuracy - Warranted	✓	+/- 1.0%	✓	+/- 1.0%
Visual Trigger / Zone Trigger	✓	Included Standard	✗	Not Available
Mask Testing	✓	Optional Upgrade	✗	Not Available
Spectrum Analysis	✓	Dedicated DDC with Spectrum View	✗	Standard FFT
RF Measurements	✓	Channel Power, ACPR, OBW	✗	None
Serial Decode Packages	✓	I2C, SPI, eSPI, I3C, RS-232/422/485/UART, SPMI, SMBus, CAN, CAN FD, LIN, FlexRay, SENT, PSI5, CXPI, USB 2.0, eUSB2, Ethernet, EtherCAT, Audio, MIL-STD-1553, ARINC 429, Spacewire, NRZ, Manchester, SVID, SDLC, 1-Wire, MDIO, NFC	✗	I2C, RS-232/422/485/UART, SPI, CAN, CAN FD, CAN-XL, LIN

## Noise Performance<sup>1,2</sup>



<sup>1</sup>Typical spec

<sup>2</sup>Characterized "by means of measurement results gained from individual samples" per MXO44 datasheet

