

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9344C

The Keysight (Agilent) N9344C Handheld Spectrum Analyzer (HSA) delivers field-ready performance with a tuning range of 9 kHz up to 20 GHz. Designed for demanding field applications, it features a rugged, fanless chassis, automatic LCD brightness control, and automated testing via the unique Task Planner. Its benchtop-grade capabilities are backed by an internal preamplifier, a built-in tracking generator, and integrated GPS.

SPECIFICATIONS

General

Recommended Calibration Cycle	1 year
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Physical

Operating Temperature	-10 to +50 °C °C
Dimensions (W×H×D)	318 mm × 207 mm × 69 mm mm
Weight	3.6 kg kg

Frequency Specifications

Frequency Range	1 MHz to 20 GHz (tunable to 9 kHz)
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Bandwidth (RBW/VBW)

Resolution Bandwidth (RBW) Range	10 Hz to 3 MHz
Video Bandwidth (VBW) Range	1 Hz to 3 MHz

Amplitude Specifications

Preamplifier Range	Internal preamplifier up to 20 GHz
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Measurement Capabilities & Options

Standard Measurements	Adjacent Channel Power (ACP), Occupied Bandwidth (OBW), Channel Power, Spectrum Emission Mask (SEM), Carrier-to-Noise Ratio (C/N)
Modulation Analysis	AM/FM Demodulation Analysis, ASK/FSK Demodulation Analysis
Time-Gated Sweep	Supported (Time-gated spectrum analysis)
GPS Receiver	Built-in GPS receiver and GPS antenna
Task Planner	Automates routine measurement tasks (up to 20 different tests)
USB Power Sensor Support	Agilent U2000 Series USB power sensors
Spectrum Monitor	Spectrogram display, record, and playback
Security Features	User data erase

Connectivity & Interfaces

RF Input Connector	Type-N female, 50 Ω nominal
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Environmental & Reliability

Enclosure Design	Rugged and fanless
Storage Temperature Range	-40 °C to +70 °C

Physical Characteristics

Weight (Without Battery)	3.2 kg
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Power & Battery System

Battery Type	Rechargeable Lithium-ion
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Frequency

Frequency Reference Aging Rate	±1 ppm/year
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Amplitude

Maximum DC Input Voltage	±50 VDC
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Sweep

Trigger Sources	Free run, Video, External
Number of Sweep Points	461

Traces & Detection

Trace Detectors	Normal, Positive Peak, Sample, Negative Peak, Average (RMS/ Video)
Number of Traces	4

Power & Battery

Battery Operating Time	3.5 hours (typical)
Battery Charge Time	4 hours (typical, analyzer off)

General & Environmental

Internal Storage	64 MB (nominal)
Environmental Compliance	MIL-PRF-28800F Class 2

Phase Noise

SSB Phase Noise at 30 kHz Offset	<-86 dBc/Hz (at 1 GHz, normalized to 1 Hz)
SSB Phase Noise at 100 kHz Offset	<-97 dBc/Hz (at 1 GHz, normalized to 1 Hz)
SSB Phase Noise at 1 MHz Offset	<-115 dBc/Hz (at 1 GHz, normalized to 1 Hz)

Tracking Generator

Tracking Generator Frequency Range	5 MHz to 7 GHz (Option TG7 dependent)
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Resolution Bandwidth (RBW)

RBW Shape Factor (Selectivity)	< 5:1 (nominal, 60 dB/3 dB bandwidth ratio)
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Environmental

Maximum Operating Altitude	4,572 m (15,000 ft)
Maximum Non-operating Altitude	15,240 m (50,000 ft)
Vibration and Shock Standard	Meets MIL-PRF-28800F Class 2

TECHNOLOGY

Heterodyne Spectrum Analysis

APPLICATIONS

Field RF Testing, Interference Analysis, Spectrum Monitoring

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.