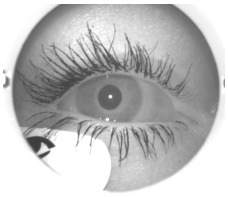
Patient Information

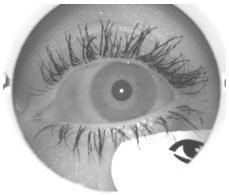
Patient ID: [redacted]
Birthdate: [redacted]
Test started: August 11, 2023, 1:53 PM
Report generated: August 11, 2023, 2:06 PM

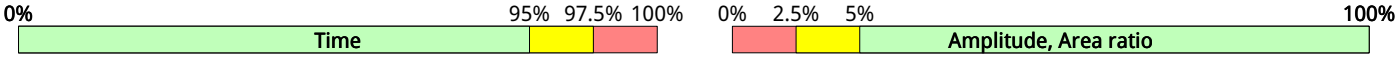
Device and Test Information

RET*eval* ™
Manufacturer: LKC Technologies, Inc.
Serial number: [redacted]
Firmware version: 2.13.5 Reference data: 2023.23 6966f91
Test protocol: DR Assessment
Electrodes: Sensor Strips



DR Score	19.8
Operator-selected limits (7.0 ↔ 23.4)	Within limits
95% Reference interval (14.3 ↔ 22.6)	68%



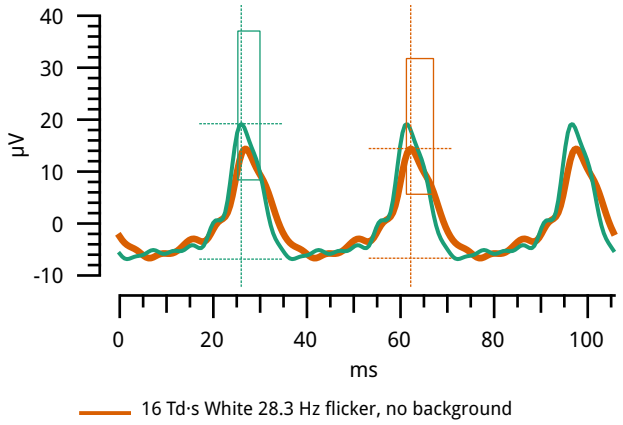


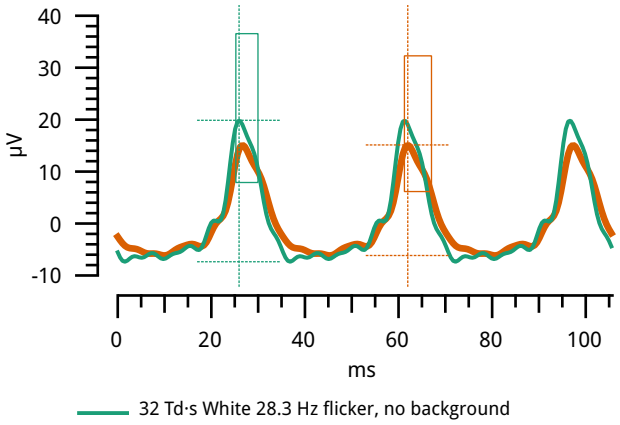
Right Eye

Left Eye

ERG

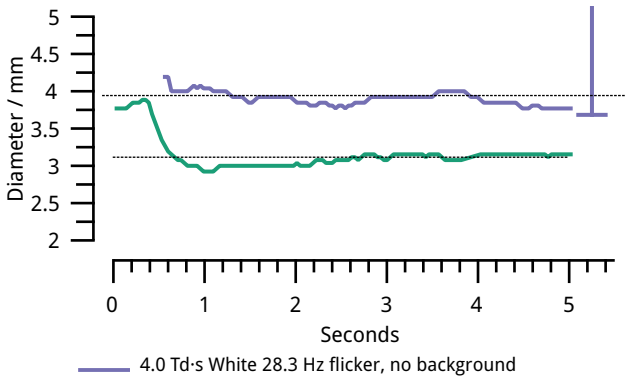
	ms		μV			ms		μV	
16 Td·s	26.8 (16%)	25.9 ↔ 31.7	21.1 (40%)	12.3 ↔ 38.4	16 Td·s	26.6 (12%)	25.9 ↔ 31.7	21.3 (41%)	12.3 ↔ 38.4
32 Td·s	26.0 (11%)	25.2 ↔ 30.0	26.1 (45%)	15.3 ↔ 43.9	32 Td·s	25.9 (10%)	25.2 ↔ 30.0	27.2 (50%)	15.3 ↔ 43.9



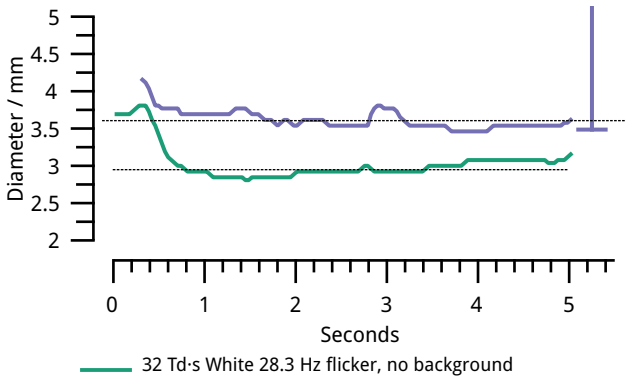


Pupil

Area ratio: 1.6 (16%) 1.4 ↔ 3.2



Area ratio: 1.5 (7%) 1.4 ↔ 3.2



[redacted]

Patient Information

Patient ID: [redacted]
Birthdate: [redacted]
Test started: [redacted]
Report generated: January 31, 2024, 3:38 PM

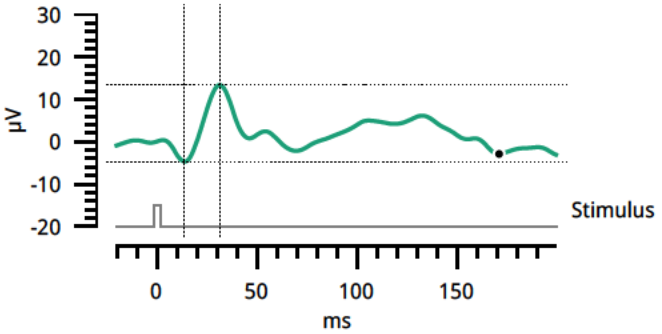
Device and Test Information

RET*eval* ™
Manufacturer: LKC Technologies, Inc.
Serial number: [redacted]
Firmware version: 2.13.5 Reference data: 2023.23 6966f91
Test protocol: PhNR 3.4 Hz Td Long
Electrodes: Sensor Strips

Test #1: Flash: 38 Td·s Red at 3.4 Hz Background: 380 Td Blue

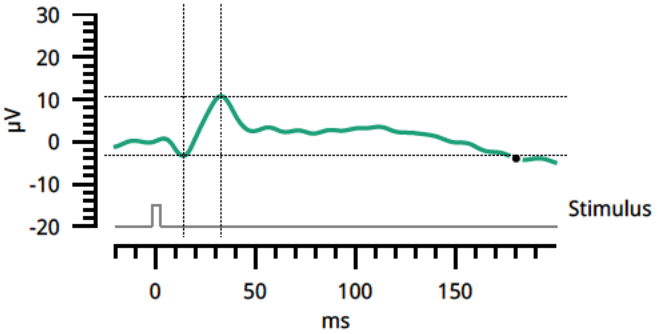
Right Eye (Pupil 1.9 mm)

a-wave		b-wave	
ms	µV	ms	µV
11.2 ↔ 14.5	-2.0 ↔ -8.2	29.4 ↔ 34.0	11.8 ↔ 35.6
13.6 (84%)	-4.7 (45%)	31.2 (42%)	18.1 (34%)



Left Eye (Pupil 1.5 mm)

a-wave		b-wave	
ms	µV	ms	µV
11.2 ↔ 14.5	-2.0 ↔ -8.2	29.4 ↔ 34.0	11.8 ↔ 35.6
13.5 (80%)	-3.4 (13%)	32.4 (81%)	14.1 (8%)



Photopic Negative Response

PhNR at minimum		
ms	µV	W-ratio[1]
42 ↔ 168	-0.86 ↔ -13.6	0.82 ↔ 1.57
171 (99%)	-2.9 (24%)	0.90 (18%)

PhNR at minimum		
ms	µV	W-ratio[1]
42 ↔ 168	-0.86 ↔ -13.6	0.82 ↔ 1.57
180 (100%)	-4.0 (39%)	1.04 (58%)

[1]W-ratio = $(b - p_{mn}) / (b - a)$ which is the reciprocal of "PTR" as described in Mortlock (2010)
where a, b, and p_{mn} are the voltages relative to baseline defined as
a: a-wave peak, b: b-wave peak, and p_{mn}: the minimum of the PhNR wave.

Patient Information

Patient ID: [redacted]

Birthdate: [redacted]

Test started: August 11, 2023, 2:03 PM

Report generated: August 11, 2023, 2:06 PM

Device and Test Information

RET*eval* ™

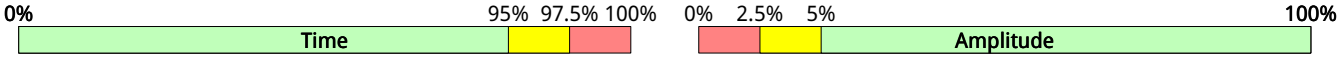
Manufacturer: LKC Technologies, Inc.

Serial number: [redacted]

Firmware version: 2.13.5 Reference data: 2023.23 6966f91

Test protocol: Flicker: 16 Td·s

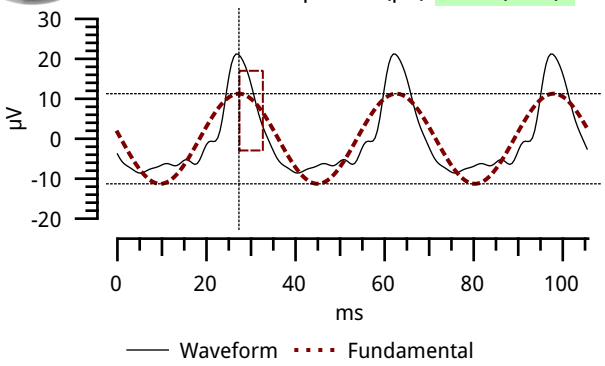
Electrodes: Sensor Strips



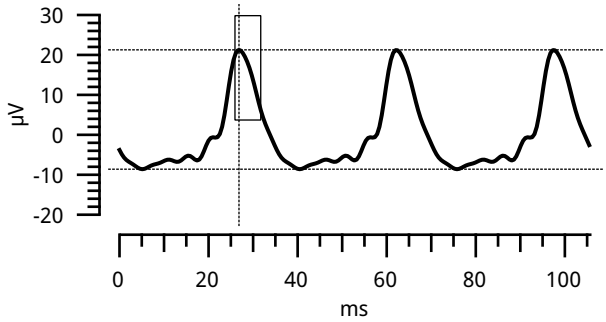
Test #1: Flash: 16 Td·s White at 28.3 Hz Background: Off

Right Eye (Pupil 3.5 mm)

28.3 Hz implicit time (ms)	27.3 (2%)	27.4 ↔ 32.7
28.3 Hz amplitude (μV)	22.6 (89%)	8.3 ↔ 28.3

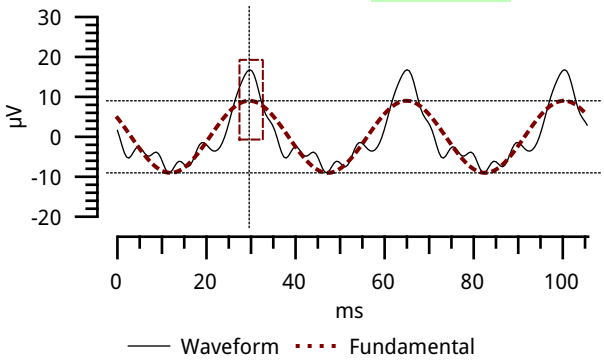


Waveform implicit time (ms)	26.8 (16%)	25.9 ↔ 31.7
Waveform amplitude (μV)	29.9 (85%)	12.3 ↔ 38.4

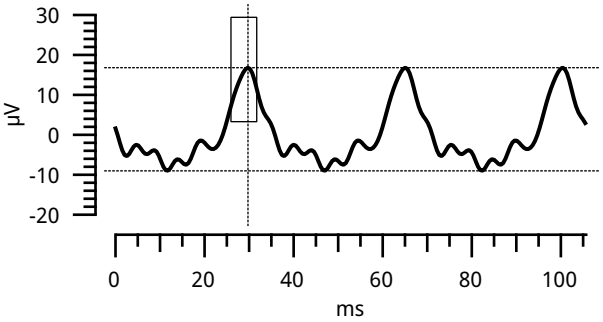


Left Eye (Pupil 3.2 mm)

28.3 Hz implicit time (ms)	29.6 (50%)	27.4 ↔ 32.7
28.3 Hz amplitude (μV)	18.0 (66%)	8.3 ↔ 28.3



Waveform implicit time (ms)	29.7 (86%)	25.9 ↔ 31.7
Waveform amplitude (μV)	25.8 (68%)	12.3 ↔ 38.4



---

[1]The literature supports two different methods to measure implicit times and amplitudes from flicker responses. The upper plots measure times and amplitudes from the best-fitting sine wave to the waveform at the stimulus frequency (the fundamental of the response), while the lower plots measure times and amplitudes directly from the waveform.