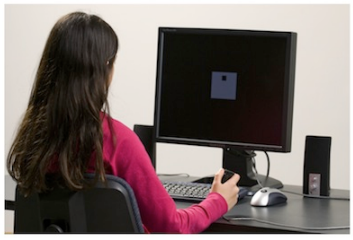
The Test Of Variables of Attention (T.O.V.A.®)

The **Test of Variables of Attention (T.O.V.A.)** is an FDA-cleared, state-of-the-art continuous performance test that provides healthcare professionals with objective measurements of attention and inhibitory control. The T.O.V.A. aids in the assessment of, and evaluation of treatment for, attention deficits, including attention-deficit/hyperactivity disorder (ADHD). T.O.V.A. results are available for children and adults (ages 4 - 80+) and should only be interpreted by qualified professionals.

The T.O.V.A. continuously measures performance during a 10.8-minute task or a 21.6-minute task, depending on age. It records speed, accuracy, and consistency of responses to a series of squares (in the visual T.O.V.A. test) or tones (in the auditory T.O.V.A. test) that are presented in two-second intervals. These measurements (accurate to ±1 ms) are then compared by age and gender to a normative sample (a sample of people without attention problems). This comparison determines whether the test results are "within normal limits" or not. The T.O.V.A. also compares results to a group of people independently diagnosed with ADHD. The T.O.V.A. report is based on these two comparisons, as well as performance, session, and response validity measures.



If you have questions about this report, please contact the person who provided it to you. For more information about attention and the T.O.V.A., please visit our website at https://www.tovatest.com/. To contact us please email info@tovatest.com or call 800.PAY.ATTN (562.594.7700).

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

Visual T.O.V.A. (v9.0-89 sn30000)
Jan 1, 2018 at 9:00 AM

Session, Response, and Performance Validity

This session meets session, response and performance validity criteria.

T.O.V.A. Interpretation

The results of this T.O.V.A. are not within normal limits, and may be suggestive of a possible attention deficit, including ADHD, because the Comparison to the Normative Sample is not within normal limits. Please see the Interpretation Notes page for additional information.

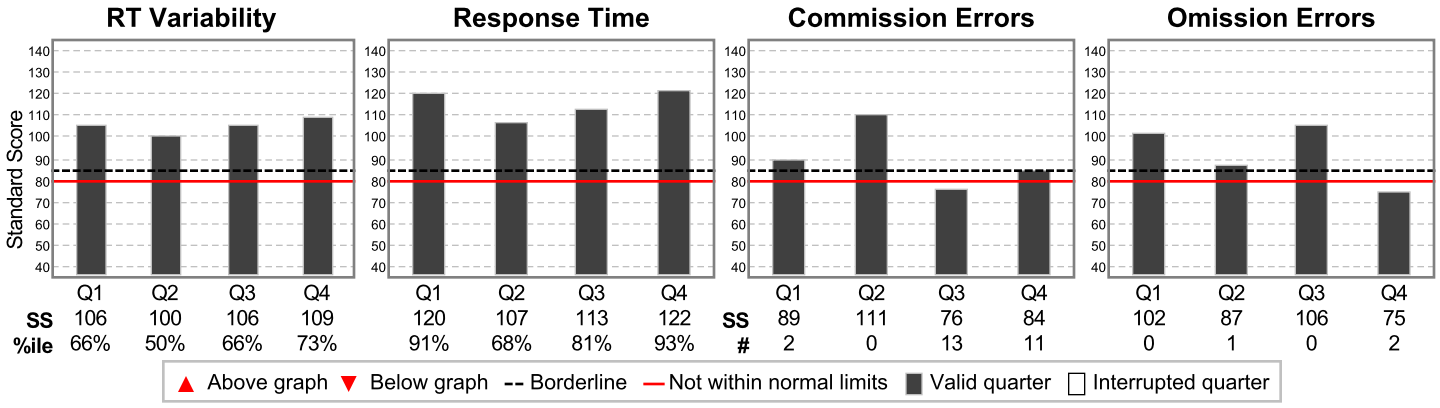
Treatment

No treatments entered.

Comparison to the Normative Sample

These scores compare this subject's performance to the performance of individuals of the same gender and age in the T.O.V.A. Normative Sample, a study of individuals who did not have attention problems.

Results are reported as standard scores (average standard = 100; standard deviation = 15). Standard scores above 85 are considered to be in the normal range, scores between 80 and 85 are considered borderline, and scores below 80 are considered not within normal limits. Scores less than 70 are considered significantly below normal range. Standard scores less than 40 are more than 4 standard deviations from normal, and are denoted as "<40".



Quarters, Halves and the Total are independently calculated and are not averages. Any Quarter, Half or Total that is Borderline or Not Within Normal Limits causes the Interpretation to be Borderline or Not Within Normal Limits. See the Interpretation Notes page for more information on these variables and on the subject's performance.

	Quarter				Half		Total
	1	2	3	4	1	2	
RT Variability	106	100	106	109	102	107	106
Response Time	120	107	113	122	113	118	118
Commission Errors	89	111	76	84	99	79	82
Omission Errors	102	87	106	75	89	86	80
	Infrequent		Frequent				

Key: Borderline, Not within normal limits, Invalid

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004) **Visual T.O.V.A.** (v9.0-89 sn30000)
Male - 14y 0m 0d Jan 1, 2018 at 9:00 AM

Session comments

Visual test of a 14-year-old male with both visual and auditory sessions.

Session, Response, and Performance Validity

Performance Validity

Performance Validity is applicable only to ages 17 or above.

Notes on the Comparison to the Normative Sample

Variability is a precise measure of variations in correct response times, and measures the consistency of response times. **Variability was within normal limits.**

Response Time is the average speed of correct responses to targets, and is a measure of information processing speed. **Response Time was within normal limits.**

Commission Errors occur when the subject incorrectly responds to a nontarget, and are a measure of inhibitory control. **Commission Errors were borderline in Quarter 4 and Total, and not within normal limits in Quarter 3 and Half 2.**

Omission Errors occur when the subject does not respond to a target, and are a measure of sustained attention. **Omission Errors were borderline in the Total, and not within normal limits in Quarter 4.**

Response Patterns

Only Half 2 (frequent stimuli) is not within normal limits and may represent poor task performance under conditions of high arousal and/or a decline in performance after 10 minutes of a task.

In Q4, H2, T, the standard score for inhibitory control (commission errors) was low and the standard score for response time was high. Despite being instructed to balance speed and accuracy, the subject may have adopted a fast response strategy that emphasized responding as quickly as possible, resulting in high commission errors.

Other Notes

Consider administering an Auditory T.O.V.A. to this subject for a more comprehensive assessment of attention. This is important because an individual can have markedly different results on one test versus the other.

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

Visual T.O.V.A. (v9.0-89 sn30000)
Jan 1, 2018 at 9:00 AM

Treatment

No treatments entered.

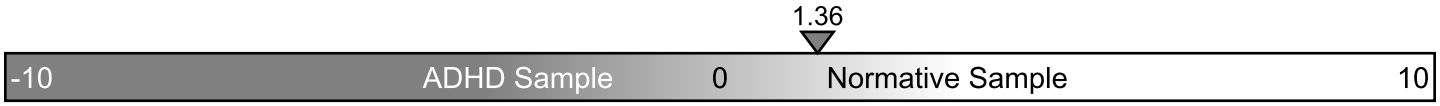
Attention Comparison Score

The Attention Comparison Score (ACS) is a subset of T.O.V.A. variables used to compare the subject's performance to a sample of individuals independently diagnosed with ADHD. Scores below 0 suggest a performance more similar to that of individuals with ADHD.

Note that the ACS does not include important variables from the Comparison to the Normative Sample. In order to understand the overall test results, the ACS should always be used with the Comparison to the Normative Sample, found on the Summary page. In particular, when the ACS is above zero and the Comparison to the Normative Sample is not within normal limits, the results should be considered not within normal limits.

The ACS is calculated by summing the following Z scores:

Response Time (Half 1)	0.89
D Prime (Half 2)	-1.74
Variability (Total)	0.41
Calibration constant	1.80
Attention Comparison Score	1.36



ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004) **Male - 14y 0m 0d**

Visual T.O.V.A. (v9.0-89 sn30000) Jan 1, 2018 at 9:00 AM

This page contains tabulated raw data and documents T.O.V.A. session parameters.

		Quarter				Half		Total
		1	2	3	4	1	2	
RT Variability	ms	70	81	84	81	82	87	90
Response Time	ms	328	389	315	262	358	290	305
Post-commission responses	#	0	0	10	10	0	20	20
Response Time	ms	0	0	308	198	0	253	253
Variability	ms	0	0	96	33	0	90	90
Commission Errors	#	2/126	0/126	13/36	11/36	2/252	24/72	26/324
Percentage	%	1.6	0	36.1	30.6	0.8	33.3	8
Response Time	ms	180	0	211	217	180	214	211
Omission Errors	#	0/36	1/36	0/126	2/126	1/72	2/252	3/324
Percentage	%	0	2.8	0	1.6	1.4	0.8	0.9
D Prime		6.41	6.18	4.62	2.66	4.61	2.84	3.76
Standard Score		88	89	94	73	73	74	78
Beta		0	1425.08	0	0.11	1.63	0.06	0.17
Anticipatory	%	0	0	1.2	8.6	0	4.9	2.5
To Nontargets	#	0	0	1	4	0	5	5
To Targets	#	0	0	1	10	0	11	11
Multiple Responses	#	0	0	0	3	0	3	3
Total Correct	#	160/162	161/162	147/162	135/162	321/324	282/324	603/648
Percentage	%	98.8	99.4	90.7	83.3	99.1	87	93.1
Skew	ms	49	59	73	60	-22	65	12
User Interrupts	#	0	0	0	0	0	0	0
Hardware errors	#	0	0	0	0	0	0	0
		Infrequent		Frequent				

Session parameters

Format:	1 (standard)
ISI:	2000 ms
Stimulus On Time:	200 ms
Stimulus Off Time:	300 ms
Anticipatory Cutoff	150 ms

Session information

Tester:	
Import Filename:	example-subjects.tova (6 / 7)
Import Date:	Sep 21, 2023 11:23:44 AM
Errors/Warnings:	

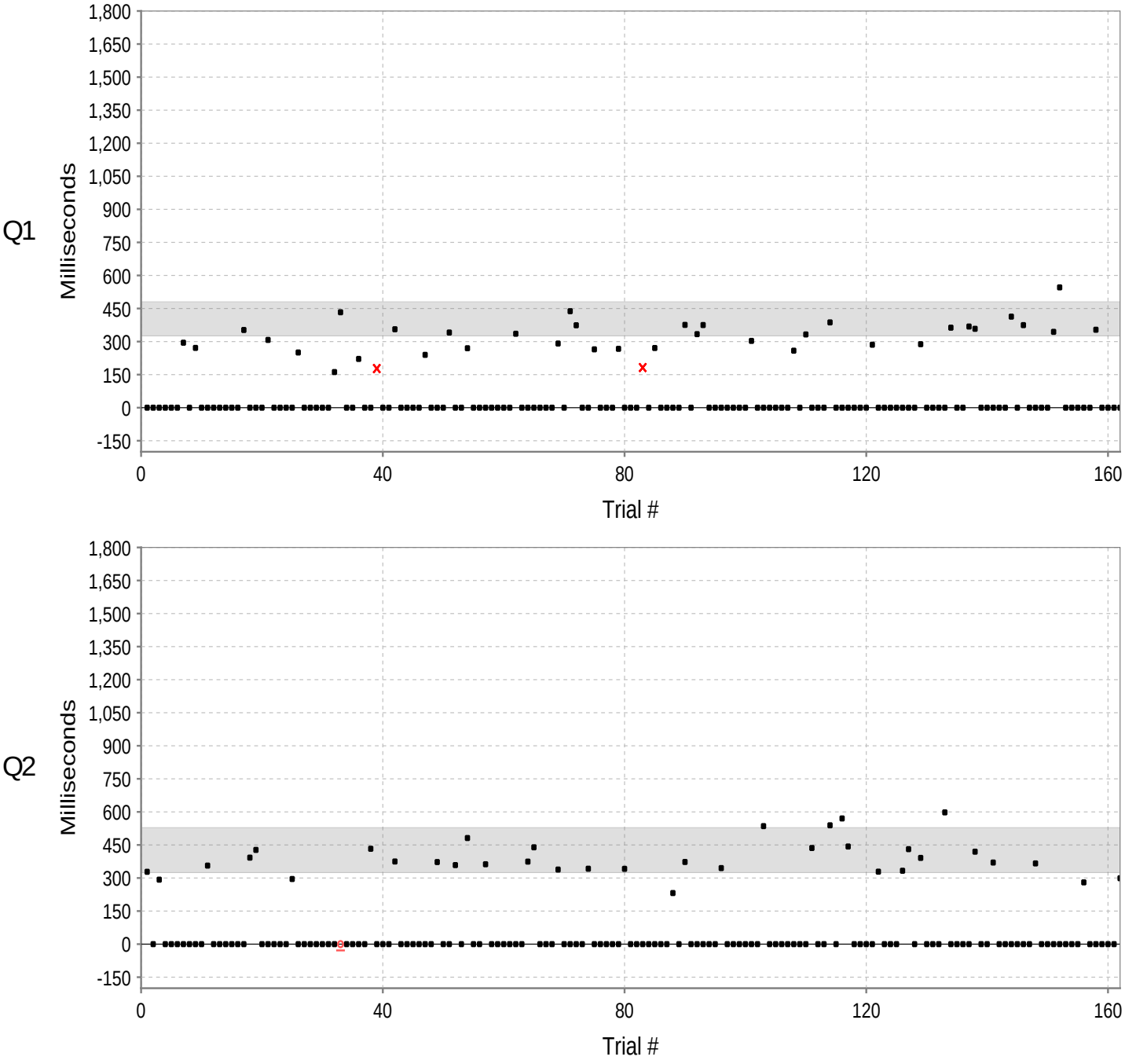
Hardware information

Session mode:	PTE
USB device:	HW 5, BD 0, FW 1.1-219-gd36f0e2
Microswitch:	HW 3, BD 0, FW 9
Monitor calibration:	16000, 16000

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

Visual T.O.V.A. (v9.0-89 sn30000)
Jan 1, 2018 at 9:00 AM

This page graphically displays the subject's responses. Black squares mark correct responses and correct nonresponses. Red 'X's mark commission errors, red squares mark anticipatory responses, and underlined red circles mark omission errors. The light gray region represents the normative range of responses. Commission errors followed by a correct response are linked by a line: an upward slope (light gray) indicates slowing down following an error (typical), and a downward slope (black) indicates speeding up after making an error (unusual). Red numbers above the zero line indicate the number of missed targets (if three or more in a row), and the red number below the zero line indicates the number of seconds elapsed between correct target responses.



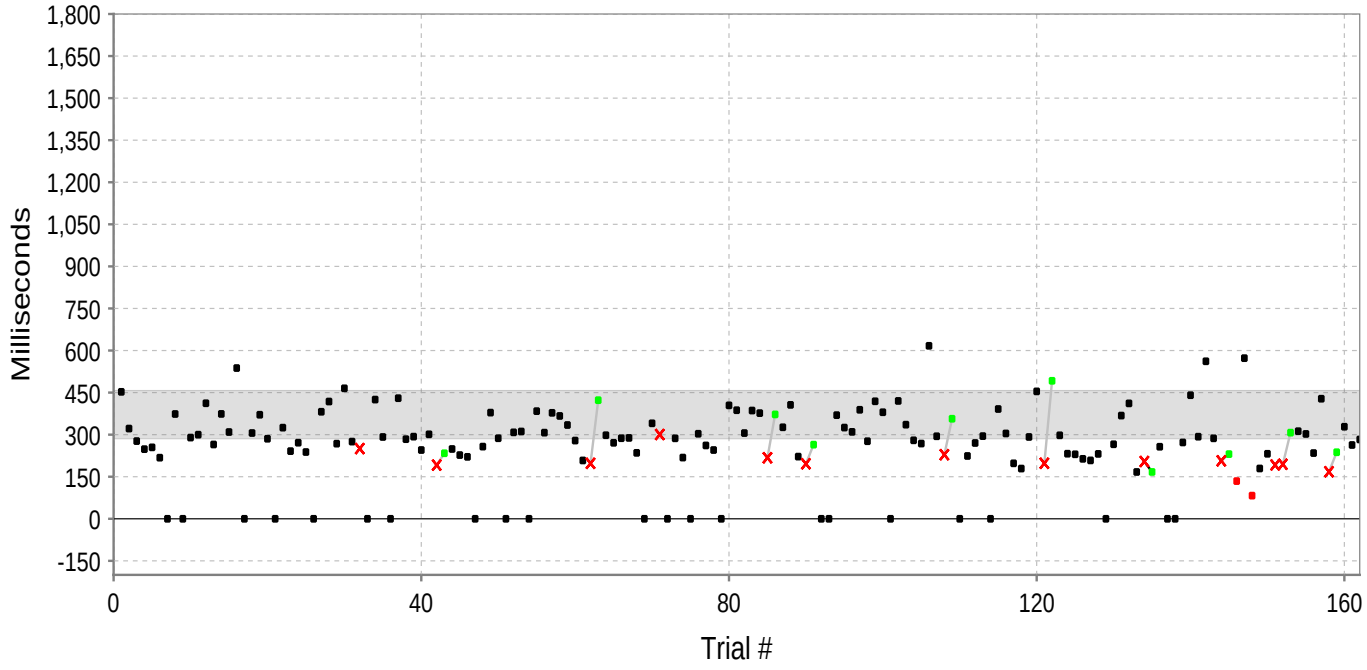
Correct response · Correct non-response · Commission error · Omission error · Anticipatory response
Post-commission error correct response · Slower post-commission RT · Faster post-commission RT
Off-scale resp./error · Normative range · Interruption · 3 10s Response gap (# Targets and Sec)

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

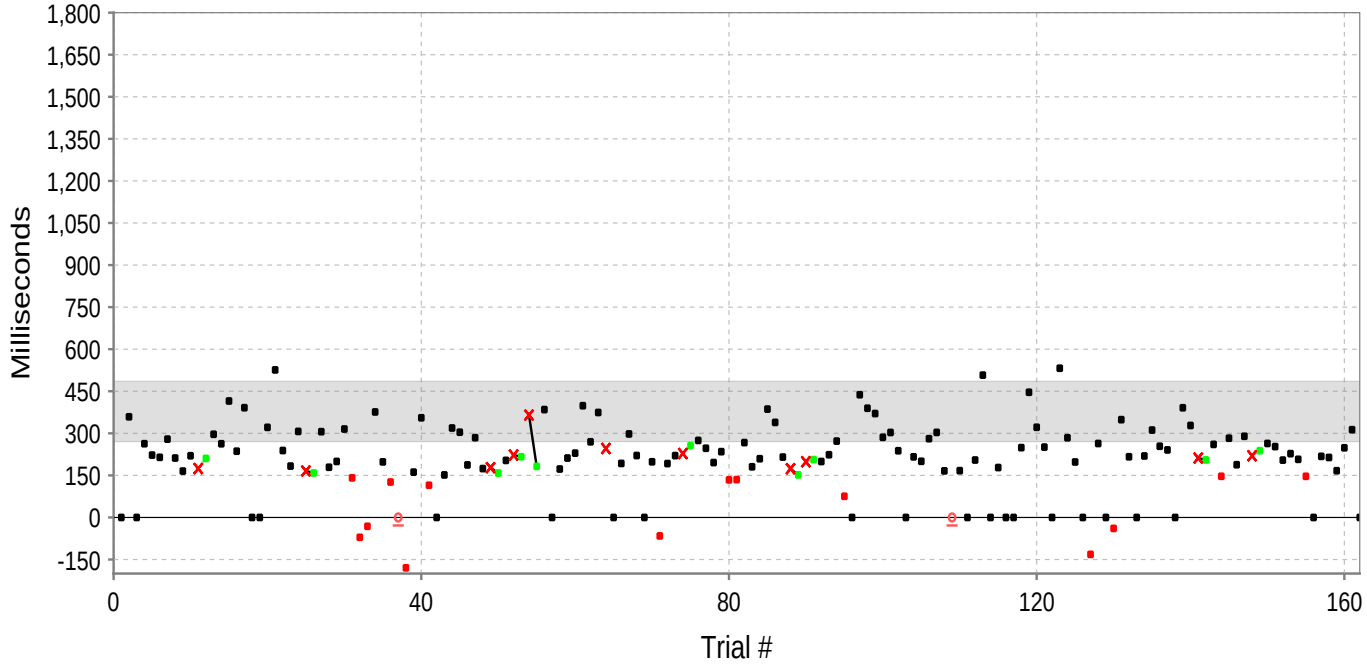
Visual T.O.V.A. (v9.0-89 sn30000)
Jan 1, 2018 at 9:00 AM

This page graphically displays the subject's responses. Black squares mark correct responses and correct nonresponses. Red 'X's mark commission errors, red squares mark anticipatory responses, and underlined red circles mark omission errors. The light gray region represents the normative range of responses. Commission errors followed by a correct response are linked by a line: an upward slope (light gray) indicates slowing down following an error (typical), and a downward slope (black) indicates speeding up after making an error (unusual). Red numbers above the zero line indicate the number of missed targets (if three or more in a row), and the red number below the zero line indicates the number of seconds elapsed between correct target responses.

Q3



Q4



Correct response · Correct non-response · Commission error · Omission error · Anticipatory response
Post-commission error correct response · Slower post-commission RT · Faster post-commission RT
Off-scale resp./error · Normative range · Interruption · 3 10s Response gap (# Targets and Sec)

TOVA — Raw Data Tables

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

Visual T.O.V.A. (v9.0-89 sn30000)
Jan 1, 2018 at 9:00 AM

This page shows a trial-by-trial view of T.O.V.A. test data. Each entry in the table indicates the stimulus type (target or nontarget) and the subject's response to that stimulus. Error responses are shown in red, and response times are in milliseconds. A negative response time indicates a response that was made before the stimulus was presented.

1-27	28-54	55-81	82-108	109-135	136-162
N	N	N	N	N	N
N	N	N	C 182	T 332	T 368
N	N	N	N	N	T 357
N	N	N	T 270	N	N
N	T 161	N	N	N	N
N	T 432	N	N	T 386	N
T 294	N	N	N	N	N
N	N	T 335	N	N	N
T 271	T 221	N	T 375	N	T 413
N	N	N	N	N	N
N	N	N	T 333	N	T 374
N	C 177	N	T 374	N	N
N	N	N	N	T 285	N
N	N	N	N	N	N
N	T 355	T 291	N	N	N
N	N	N	N	N	T 344
T 352	N	T 437	N	N	T 545
N	N	T 373	N	N	N
N	N	N	N	N	N
N	T 239	N	T 303	N	N
T 307	N	T 264	N	T 288	N
N	N	N	N	N	N
N	N	N	N	N	T 353
N	T 341	N	N	N	N
N	N	T 267	N	N	N
T 250	N	N	N	T 363	N
N	T 269	N	T 258	N	N

163-189	190-216	217-243	244-270	271-297	298-324
T 328	N	N	N	N	N
N	N	N	N	N	N
T 292	N	T 362	N	T 436	T 419
N	N	N	N	N	N
N	N	N	N	N	N
N	O	N	N	T 539	T 370
N	N	N	T 231	N	N
N	N	N	N	T 570	N
N	N	N	T 372	T 443	N
N	N	T 374	N	N	N
T 356	T 432	T 439	N	N	N
N	N	N	N	N	N
N	N	N	N	N	T 366
N	N	N	N	T 328	N
N	T 374	T 338	T 344	N	N
N	N	N	N	N	N
N	N	N	N	N	N
T 392	N	N	N	T 332	N
T 427	N	N	N	T 431	N
N	N	T 342	N	N	N
N	N	N	N	T 391	T 280
N	T 372	N	T 535	N	N
N	N	N	N	N	N
N	N	N	N	N	N
T 295	T 358	N	N	T 597	N
N	N	T 341	N	N	N
N	T 481	N	N	N	T 299

325-351	352-378	379-405	406-432	433-459	460-486
T 452	T 418	T 383	T 305	T 356	T 256
T 321	T 267	T 307	T 386	N	N
T 277	T 465	T 377	T 376	T 223	N
T 248	T 275	T 366	C 217	T 270	T 272
T 254	C 250	T 334	T 372	T 294	T 440
T 217	N	T 278	T 326	N	T 292
N	T 425	T 208	T 406	T 391	T 561
T 373	T 291	C 197	T 221	T 304	T 286
N	N	T 422	C 196	T 197	C 206
T 289	T 430	T 297	T 264	T 179	T 230
T 299	T 283	T 270	N	T 291	NA 134
T 412	T 292	T 287	N	T 454	T 572
T 264	T 245	T 288	T 369	C 197	TA 82
T 373	T 301	T 235	T 325	T 492	T 179
T 309	C 191	N	T 309	T 297	T 231
T 537	T 233	T 340	T 388	T 232	C 191
N	T 248	C 300	T 276	T 229	C 194
T 305	T 227	N	T 419	T 213	T 307
T 370	T 220	T 286	T 379	T 208	T 312
T 285	N	T 218	N	T 231	T 302
N	T 257	N	T 420	N	T 234
T 324	T 378	T 303	T 335	T 265	T 428
T 241	T 287	T 261	T 279	T 368	C 167
T 271	N	T 245	T 268	T 411	T 237
T 238	T 308	N	T 616	T 166	T 328
N	T 311	T 404	T 294	C 204	T 263
T 381	N	T 387	C 228	T 167	T 282

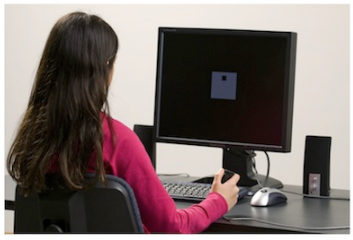
487-513	514-540	541-567	568-594	595-621	622-648
N	T 178	T 182	T 267	O	T 253
T 358	T 199	T 384	T 180	T 166	T 240
N	T 315	N	T 209	N	N
T 262	TA 141	T 172	T 386	T 204	T 391
T 222	TA -70	T 211	T 338	T 507	T 328
T 214	NA -31	T 229	T 215	N	C 211
T 279	T 376	T 398	C 173	T 177	T 205
T 211	T 198	T 269	T 151	N	T 260
T 165	TA 126M	T 374	C 198	N	TA 146
T 220	O	C 245	T 206	T 248	T 282
C 174	NA -179	N	T 199	T 446	T 188
T 210	T 161	T 192	T 223	T 321	T 289
T 296	T 355	T 297	T 272	T 250	C 219
T 262	TA 114	T 220	TA 75	N	T 237
T 415	N	N	N	T 532	T 263
T 236	T 151	T 198	T 437	T 284	T 252
T 391	T 318	TA -65	T 389	T 197M	T 204
N	T 303	T 192	T 370	N	T 227
N	T 187	T 220	T 285	NA -131	T 207
T 321	T 284	C 227	T 303	T 263	TA 146
T 526	T 174	T 256	T 237	N	N
T 238	C 177	T 274	N	TA -39	T 217
T 183	T 158	T 246	T 216	T 348	T 213
T 306	T 203	T 195	T 200	T 216	T 166
C 165	C 222	T 234	T 280	N	T 248
T 158	T 216	NA 134	T 303	T 219	T 312
T 305	C 365	TA 135	T 166M	T 311	N

T = Correct response to target
N = Correct nonresponse to nontarget
Green = Post-Commission-error correct response
O = Omission error
C = Commission error
U = User interrupt
A = Anticipatory response
M = Multiple response
H = Hardware interrupt

The Test Of Variables of Attention (T.O.V.A.®)

The **auditory Test of Variables of Attention (T.O.V.A.)** is an FDA-cleared, state-of-the-art continuous performance test that provides healthcare professionals with objective measurements of attention and inhibitory control. The auditory T.O.V.A. aids in the assessment of attention deficits, including attention-deficit/hyperactivity disorder (ADHD). T.O.V.A. results are available for children and adults (ages 6 - 29+) and should only be interpreted by qualified professionals.

The T.O.V.A. continuously measures performance during a 10.8-minute task or a 21.6-minute task, depending on age. It records speed, accuracy, and consistency of responses to a series of squares (in the visual T.O.V.A. test) or tones (in the auditory T.O.V.A. test) that are presented in two-second intervals. These measurements (accurate to ±1 ms) are then compared by age and gender to a normative sample (a sample of people without attention problems). This comparison determines whether the test results are "within normal limits" or not. The T.O.V.A. also compares results to a group of people independently diagnosed with ADHD. The T.O.V.A. report is based on these two comparisons, as well as performance, session, and response validity measures.



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ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

Auditory T.O.V.A. (v9.0-89 sn30000)
Jan 1, 2018 at 10:30 AM

Session and Response Validity

This session meets session and response validity criteria.

T.O.V.A. Interpretation

The results of this T.O.V.A. are not within normal limits, and may be suggestive of a possible attention deficit, including ADHD. Please see the Interpretation Notes page for additional information.

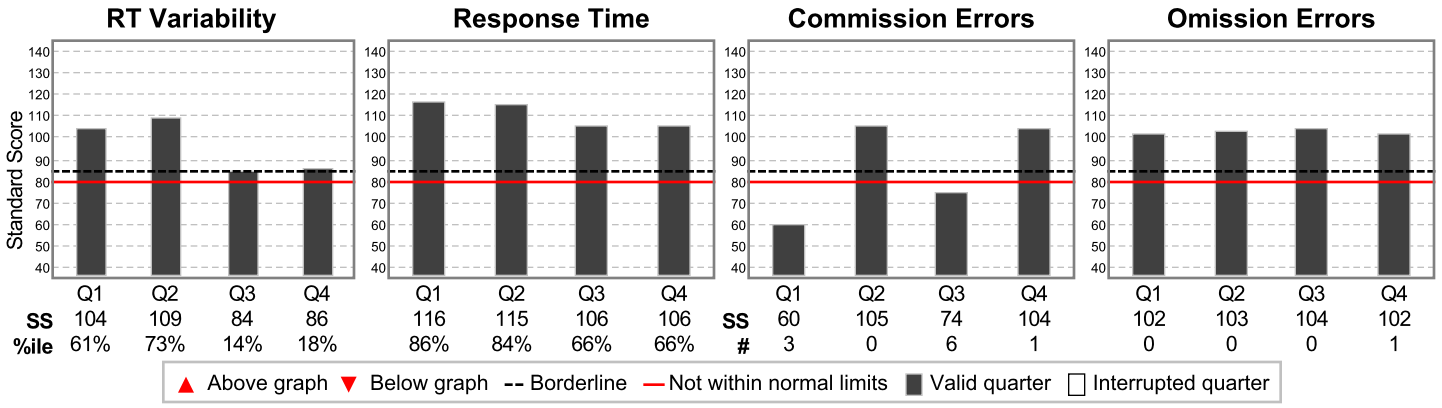
Treatment

No treatments entered.

Comparison to the Normative Sample

These scores compare this subject's performance to the performance of individuals of the same gender and age in the T.O.V.A. Normative Sample, a study of individuals who did not have attention problems.

Results are reported as standard scores (average standard = 100; standard deviation = 15). Standard scores above 85 are considered to be in the normal range, scores between 80 and 85 are considered borderline, and scores below 80 are considered not within normal limits. Scores less than 70 are considered significantly below normal range. Standard scores less than 40 are more than 4 standard deviations from normal, and are denoted as "<40".



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	Quarter				Half		Total
	1	2	3	4	1	2	
RT Variability	104	109	84	86	108	86	88
Response Time	116	115	106	106	116	106	109
Commission Errors	60	105	74	104	76	90	83
Omission Errors	102	103	104	102	104	103	103
	Infrequent		Frequent				

Key: Borderline, Not within normal limits, Invalid

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

Auditory T.O.V.A. (v9.0-89 sn30000)
Jan 1, 2018 at 10:30 AM

Session comments

Auditory test of a 14-year-old male with both visual and auditory sessions.

Notes on the Comparison to the Normative Sample

Variability is a precise measure of variations in correct response times, and measures the consistency of response times. **Variability was borderline in Quarter 3.**

Response Time is the average speed of correct responses to targets, and is a measure of information processing speed. **Response Time was within normal limits.**

Commission Errors occur when the subject incorrectly responds to a nontarget, and are a measure of inhibitory control. **Commission Errors were borderline in the Total, and not within normal limits in Quarters 1 and 3, and Half 1.**

Omission Errors occur when the subject does not respond to a target, and are a measure of sustained attention. **Omission Errors were within normal limits.**

Response Patterns

Quarter 1 and 3 are not within normal limits. This may represent difficulties adapting to novel conditions, an initially impulsive test taking strategy, or anxiety.

In Q1, H1, the standard score for inhibitory control (commission errors) was low and the standard score for response time was high. Despite being instructed to balance speed and accuracy, the subject may have adopted a fast response strategy that emphasized responding as quickly as possible, resulting in high commission errors.

Other Notes

Consider administering a Visual T.O.V.A. to this subject for a more comprehensive assessment of attention. This is important because an individual can have markedly different results on one test versus the other.

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

Auditory T.O.V.A. (v9.0-89 sn30000)
Jan 1, 2018 at 10:30 AM

This page contains tabulated raw data and documents T.O.V.A. session parameters.

		Quarter				Half		Total
		1	2	3	4	1	2	
RT Variability	ms	94	90	225	233	93	229	211
Response Time	ms	384	406	479	499	395	489	468
Post-commission responses	#	1	0	4	0	1	4	5
Response Time	ms	729	0	449	0	729	449	505
Variability	ms	0	0	128	0	0	128	160
Commission Errors	#	3/126	0/126	6/36	1/36	3/252	7/72	10/324
Percentage	%	2.4	0	16.7	2.8	1.2	9.7	3.1
Response Time	ms	597	0	411	269	597	390	452
Omission Errors	#	0/36	0/36	0/126	1/126	0/72	1/252	1/324
Percentage	%	0	0	0	0.8	0	0.4	0.3
D Prime		6.25	8.53	5.23	4.33	6.53	3.95	4.61
Standard Score		82	108	93	86	91	86	86
Beta		0	1	0	0.34	0	0.07	0.13
Anticipatory	%	0	0	0	0.6	0	0.3	0.2
To Nontargets	#	0	0	0	0	0	0	0
To Targets	#	0	0	0	1	0	1	1
Multiple Responses	#	0	0	0	1	0	1	1
Total Correct	#	159/162	162/162	156/162	159/162	321/324	315/324	636/648
Percentage	%	98.1	100	96.3	98.1	99.1	97.2	98.1
Skew	ms	19	38	140	158	22	151	133
User Interrupts	#	0	0	0	0	0	0	0
Hardware errors	#	0	0	0	0	0	0	0
		Infrequent		Frequent				

Session parameters

Format:	1 (standard)
ISI:	2000 ms
Stimulus On Time:	200 ms
Stimulus Off Time:	300 ms
Anticipatory Cutoff	150 ms

Session information

Tester:	
Import Filename:	example-subjects.tova (7 / 7)
Import Date:	Sep 21, 2023 11:23:44 AM
Errors/Warnings:	

Hardware information

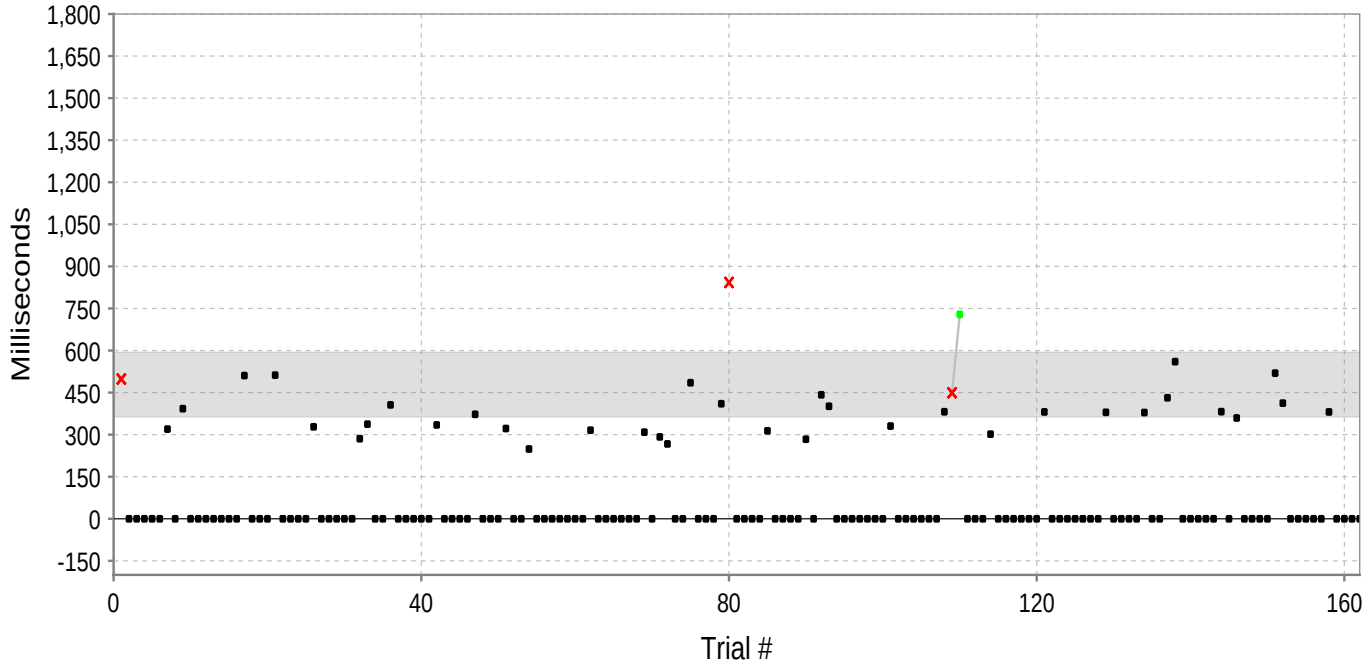
Session mode:	PTE
USB device:	HW 5, BD 0, FW 1.1-219-gd36f0e2
Microswitch:	HW 3, BD 0, FW 9

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

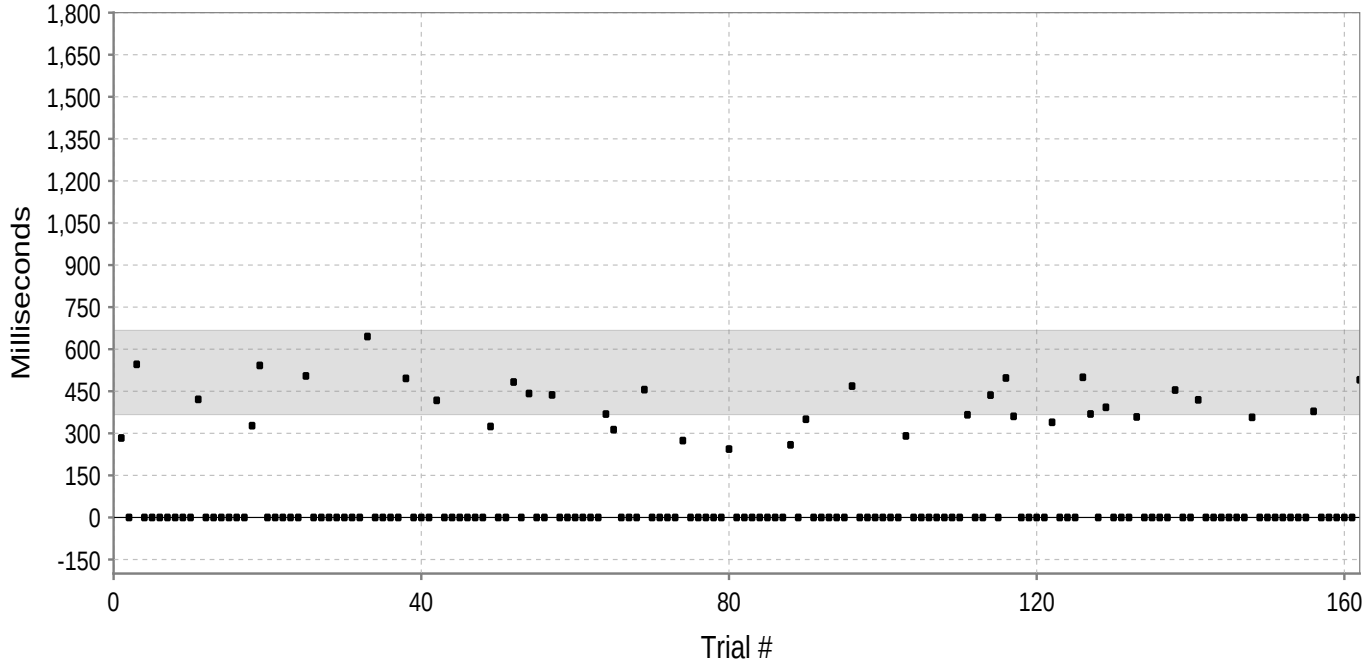
Auditory T.O.V.A. (v9.0-89 sn30000)
Jan 1, 2018 at 10:30 AM

This page graphically displays the subject's responses. Black squares mark correct responses and correct nonresponses. Red 'X's mark commission errors, red squares mark anticipatory responses, and underlined red circles mark omission errors. The light gray region represents the normative range of responses. Commission errors followed by a correct response are linked by a line: an upward slope (light gray) indicates slowing down following an error (typical), and a downward slope (black) indicates speeding up after making an error (unusual). Red numbers above the zero line indicate the number of missed targets (if three or more in a row), and the red number below the zero line indicates the number of seconds elapsed between correct target responses.

Q1



Q2



Correct response · Correct non-response · Commission error · Omission error · Anticipatory response
Post-commission error correct response · Slower post-commission RT · Faster post-commission RT
Off-scale resp./error · Normative range · Interruption · 3 10s Response gap (# Targets and Sec)

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

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Jan 1, 2018 at 10:30 AM

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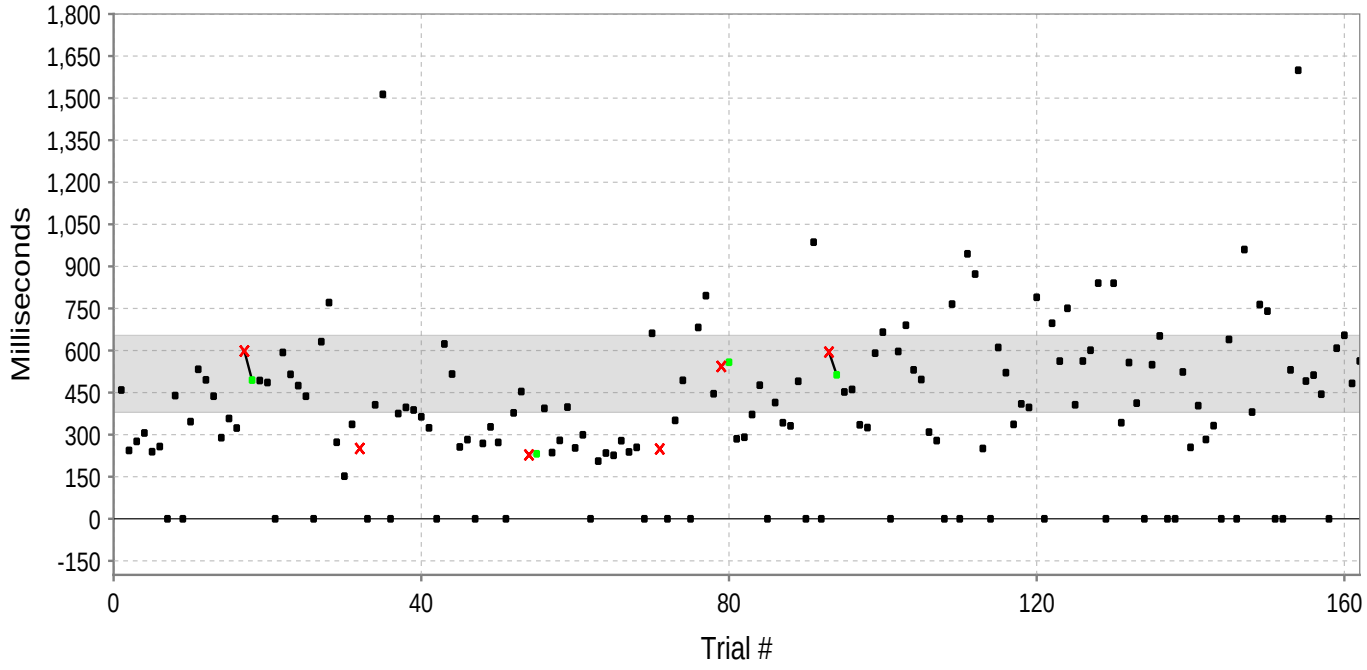
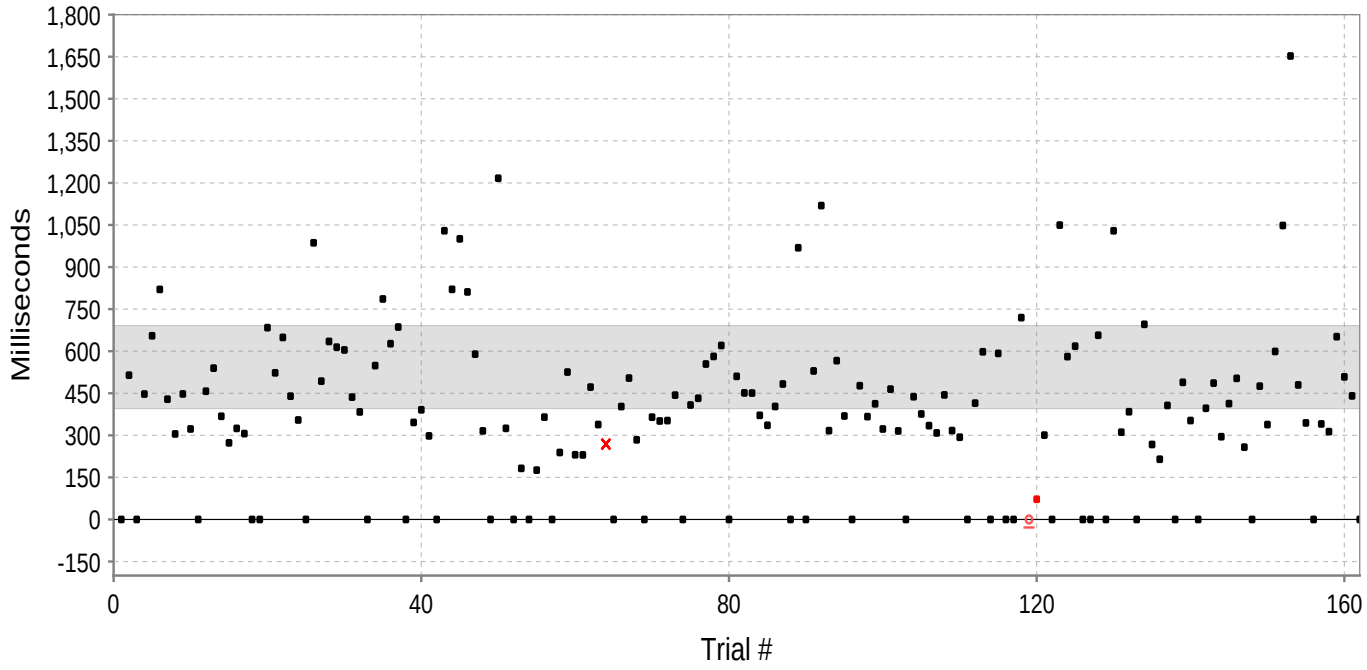
Q3



Q4



Correct response · Correct non-response · Commission error · Omission error · Anticipatory response
Post-commission error correct response · Slower post-commission RT · Faster post-commission RT
Off-scale resp./error · Normative range · Interruption · 3 10s Response gap (# Targets and Sec)

ID: **5** **14y Male Vis. and Aud. Example Subject** (Jan 1, 2004)
Male - 14y 0m 0d

Auditory T.O.V.A. (v9.0-89 sn30000)
Jan 1, 2018 at 10:30 AM

This page shows a trial-by-trial view of T.O.V.A. test data. Each entry in the table indicates the stimulus type (target or nontarget) and the subject's response to that stimulus. Error responses are shown in red, and response times are in milliseconds. A negative response time indicates a response that was made before the stimulus was presented.

1-27		28-54		55-81		82-108		109-135		136-162	
C	498	N		N		N		C	449	N	
N		N		N		N		T	729	T	431
N		N		N		N		N		T	560
N		N		N		T	313	N		N	
N		T	285	N		N		N		N	
N		T	337	N		N		T	301	N	
T	319	N		N		N		N		N	
N		N		T	315	N		N		N	
T	392	T	406	N		T	283	N		T	382
N		N		N		N		N		N	
N		N		N		T	442	N		T	359
N		N		N		T	401	N		N	
N		N		N		N		T	381	N	
N		N		N		N		N		N	
N		T	334	T	308	N		N		N	
N		N		N		N		N		T	519
T	510	N		T	292	N		N		T	412
N		N		T	266	N		N		N	
N		N		N		N		N		N	
N		T	372	N		T	330	N		N	
T	512	N		T	485	N		T	379	N	
N		N		N		N		N		N	
N		N		N		N		N		T	381
N		T	321	N		N		N		N	
N		N		T	410	N		N		N	
T	328	N		C	842	N		T	378	N	
N		T	248	N		T	381	N		N	

163-189		190-216		217-243		244-270		271-297		298-324	
T	283	N		N		N		N		N	
N		N		N		N		N		N	
T	546	N		T	436	N		T	366	T	454
N		N		N		N		N		N	
N		N		N		N		N		N	
N		T	645	N		N		T	436	T	419
N		N		N		T	259	N		N	
N		N		N		N		T	497	N	
N		N		N		T	350	T	360	N	
N		N		T	368	N		N		N	
T	421	T	495	T	313	N		N		N	
N		N		N		N		N		N	
N		N		N		N		N		T	357
N		N		N		N		T	339	N	
N		T	417	T	455	T	468	N		N	
N		N		N		N		N		N	
N		N		N		N		N		N	
T	327	N		N		N		T	499	N	
T	542	N		N		N		T	369	N	
N		N		T	274	N		N		N	
N		N		N		N		T	392	T	378
N		T	324	N		T	290	N		N	
N		N		N		N		N		N	
N		N		N		N		N		N	
T	504	T	483	N		N		T	358	N	
N		N		T	243	N		N		N	
N		T	441	N		N		N		T	490

325-351		352-378		379-405		406-432		433-459		460-486	
T	459	T	771	T	231	T	290	T	765	T	652
T	243	T	273	T	393	T	371	N		N	
T	276	T	152	T	236	T	476	T	944	N	
T	306	T	336	T	279	N		T	872	T	523
T	239	C	250	T	398	T	414	T	250	T	254
T	257	N		T	252	T	342	N		T	403
N		T	406	T	299	T	331	T	610	T	282
T	439	T	1513	N		T	490	T	521	T	332
N		N		T	205	N		T	336	N	
T	346	T	375	T	234	T	986	T	409	T	639
T	533	T	397	T	226	N		T	397	N	
T	495	T	387	T	278	C	594	T	789	T	960
T	437	T	363	T	238	T	513	N		T	380
T	289	T	324	T	254	T	452	T	697	T	763
T	357	N		N		T	461	T	562	T	740
T	323	T	623	T	661	T	335	T	750	N	
C	598	T	516	C	248	T	325	T	406	N	
T	494	T	256	N		T	590	T	562	T	531
T	493	T	282	T	350	T	665	T	601	T	1599
T	485	N		T	493	N		T	840	T	491
N		T	268	N		T	596	N		T	512
T	593	T	327	T	682	T	690	T	840	T	444
T	515	T	272	T	795	T	531	T	342	N	
T	474	N		T	445	T	496	T	557	T	608
T	437	T	377	C	543	T	309	T	412	T	654
N		T	453	T	558	T	278	N		T	482
T	631	C	227	T	285	N		T	549	T	562

487-513		514-540		541-567		568-594		595-621		622-648	
N		T	634	T	175	T	451	T	316	T	214
T	514	T	614	T	364	T	450	T	293	T	406
N		T	604	N		T	371	N		N	
T	447	T	436	T	238	T	335	T	414	T	488
T	655	T	383	T	525	T	402	T	597	T	352
T	820	N		T	230	T	483	N		N	
T	428	T	548	T	230	N		T	592	T	396
T	304	T	786	T	471	T	968	N		T	486
T	447	T	626	T	338	N		N		T	295
T	322	T	686	C	268	T	529	T	719	T	413
N		N		N		T	1119	O		T	503
T	457	T	345	T	402	T	316	TA	72M	T	257
T	539	T	391	T	504	T	566	T	300	N	
T	367	T	297	T	284	T	368	N		T	475
T	273	N		N		N		T	1049	T	338
T	324	T	1029	T	364	T	476	T	580	T	599
T	306	T	820	T	351	T	366	T	617	T	1048
N		T	1000	T	352	T	412	N		T	1652
N		T	811	T	443	T	322	N		T	479
T	683	T	589	N		T	464	T	656	T	344
T	522	T	315	T	408	T	315	N		N	
T	649	N		T	432	N		T	1029	T	340
T	439	T	1216	T	554	T	437	T	311	T	313
T	354	T	324	T	581	T	376	T	384	T	651
N		N		T	620	T	334	N		T	508
T	986	T	182	N		T	308	T	695	T	440
T	493	N		T	510	T	444	T	267	N	

T = Correct response to target
N = Correct nonresponse to nontarget
Green = Post-Commission-error correct response
O = Omission error
C = Commission error
U = User interrupt
A = Anticipatory response
M = Multiple response
H = Hardware interrupt