

Supplemental Material S1.

One-sample t-tests for Table 2 (production)

	productionCondition	ageband	mean	sd	tStat	df	p
1	Filtered, 1 judge	2;1-2;6	0.57	0.1	14.47	12	5.86E-09
2	Filtered, 1 judge	2;7-3;0	0.65	0.1	20.64	17	1.79E-13
3	Filtered, 1 judge	3;1-3;6	0.67	0.11	17.6	14	6.03E-11
4	Filtered, 1 judge	3;7-4;0	0.7	0.12	14.94	11	1.19E-08
5	Filtered, 1 judge	4;1-4;6	0.67	0.1	21.49	16	3.15E-13
6	Filtered, 1 judge	4;7-5;0	0.77	0.09	25.47	14	3.97E-13
7	Filtered, 1 judge	5;1-5;6	0.74	0.07	26.6	10	1.30E-10
8	Filtered, 1 judge	5;7-6;0	0.73	0.09	19.25	9	1.27E-08
9	Filtered, 1 judge	Ref	0.9	0.05	44.8	9	6.88E-12
10	Filtered, 2 judges	2;1-2;6	0.36	0.11	6.29	12	3.99E-05
11	Filtered, 2 judges	2;7-3;0	0.46	0.08	15.53	17	1.78E-11
12	Filtered, 2 judges	3;1-3;6	0.45	0.13	8.4	14	7.75E-07
13	Filtered, 2 judges	3;7-4;0	0.42	0.09	9.39	11	1.38E-06
14	Filtered, 2 judges	4;1-4;6	0.47	0.1	12.35	16	1.36E-09
15	Filtered, 2 judges	4;7-5;0	0.53	0.1	14.63	14	7.06E-10
16	Filtered, 2 judges	5;1-5;6	0.52	0.08	14.52	10	4.78E-08
17	Filtered, 2 judges	5;7-6;0	0.49	0.09	10.85	9	1.80E-06
18	Filtered, 2 judges	Ref	0.74	0.11	16.07	9	6.19E-08
19	Unfiltered, 1 judge	2;1-2;6	0.82	0.09	26.94	12	4.20E-12
20	Unfiltered, 1 judge	2;7-3;0	0.9	0.07	42.18	17	1.20E-18
21	Unfiltered, 1 judge	3;1-3;6	0.93	0.09	33.77	14	8.12E-15
22	Unfiltered, 1 judge	3;7-4;0	0.85	0.1	24.6	11	5.74E-11
23	Unfiltered, 1 judge	4;1-4;6	0.93	0.06	54.27	16	1.43E-19
24	Unfiltered, 1 judge	4;7-5;0	0.94	0.04	73.42	14	1.64E-19
25	Unfiltered, 1 judge	5;1-5;6	0.98	0.02	132.85	10	1.43E-17
26	Unfiltered, 1 judge	5;7-6;0	0.94	0.05	49.93	9	2.60E-12
27	Unfiltered, 1 judge	Ref	0.99	0.01	223.42	9	3.67E-18
28	Unfiltered, 2 judges	2;1-2;6	0.61	0.12	13.28	12	1.55E-08
29	Unfiltered, 2 judges	2;7-3;0	0.71	0.12	19.48	17	4.59E-13
30	Unfiltered, 2 judges	3;1-3;6	0.73	0.11	20.49	14	7.72E-12
31	Unfiltered, 2 judges	3;7-4;0	0.66	0.11	15.25	11	9.55E-09
32	Unfiltered, 2 judges	4;1-4;6	0.76	0.11	22.34	16	1.73E-13
33	Unfiltered, 2 judges	4;7-5;0	0.81	0.07	35.58	14	3.94E-15
34	Unfiltered, 2 judges	5;1-5;6	0.9	0.06	41.38	10	1.63E-12
35	Unfiltered, 2 judges	5;7-6;0	0.8	0.09	21.54	9	4.71E-09
36	Unfiltered, 2 judges	Ref	0.94	0.04	57.75	9	7.05E-13

One-sample t-tests for Table 2 (perception)

	ageband	mean	sd	tStat	df	p
1	2;1-2;6	0.6	0.09	3.97	12	0.001863
2	2;7-3;0	0.65	0.05	13.11	17	2.58E-10
3	3;1-3;6	0.7	0.07	11.43	14	1.74E-08
4	3;7-4;0	0.75	0.1	8.71	11	2.88E-06
5	4;1-4;6	0.84	0.06	22.19	16	1.91E-13
6	4;7-5;0	0.9	0.06	23.98	14	9.08E-13
7	5;1-5;6	0.89	0.07	17.99	10	6.04E-09
8	5;7-6;0	0.9	0.04	35.03	9	6.22E-11
9	Ref	0.99	0.01	211.6	8	2.78E-16

Multiple comparisons with Bonferroni corrections on perception accuracy of individual tone pairs in Figure 4

Summary Table

Age groups	T1T2	T1T3	T1T4	T1T5	T1T6	T2T3	T2T4	T2T5	T2T6	T3T4	T3T5	T3T6	T4T5	T4T6	T5T6
2;1-3;0 vs. 3;1-4;0	<.001	0.001	0.002	<.001	0.001	<.001	<.001	n.s.	0.001	0.035	0.014	n.s.	n.s.	n.s.	n.s.
2;1-3;0 vs. 4;1-5;0	<.001	<.001	<.001	<.001	<.001	<.001	<.001	n.s.	<.001	<.001	<.001	n.s.	<.001	<.001	<.001
2;1-3;0 vs. 5;1-6;0	<.001	<.001	<.001	<.001	<.001	<.001	<.001	0.012	<.001	<.001	<.001	n.s.	<.001	<.001	<.001
2;1-3;0 vs. Ref	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
3;1-4;0 vs. 4;1-5;0	0.002	<.001	<.001	0.03	<.001	<.001	<.001	0.015	0.003	<.001	<.001	n.s.	<.001	0.008	<.001
3;1-4;0 vs. 5;1-6;0	<.001	<.001	<.001	0.001	0.001	<.001	<.001	0.002	<.001	<.001	<.001	n.s.	<.001	<.001	<.001
3;1-4;0 vs. Ref	0.002	<.001	<.001	0.004	<.001	0.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
4;1-5;0 vs. 5;1-6;0	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
4;1-5;0 vs. Ref	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	<.001	n.s.	n.s.	n.s.	<.001	n.s.	0.001	n.s.
5;1-6;0 vs. Ref	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	<.001	n.s.	n.s.	n.s.	0.002	n.s.	n.s.	n.s.

Full statistical details for each tone pair

Multiple Comparisons

Dependent Variable: score for tone pair T1T2
Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.15 [*]	.030	4.01E-06	-.24	-.07
	4;1-5;0	-.26 [*]	.029	2.13E-18	-.34	-.18
	5;1-6;0	-.30 [*]	.032	1.69E-18	-.39	-.21
	Ref	-.31 [*]	.043	5.54E-12	-.44	-.19
3;1-4;0	2;1-3;0	.15 [*]	.030	4.01E-06	.07	.24
	4;1-5;0	-.11 [*]	.030	1.85E-03	-.19	-.03
	5;1-6;0	-.14 [*]	.033	1.39E-04	-.24	-.05
	Ref	-.16 [*]	.044	2.18E-03	-.28	-.04
4;1-5;0	2;1-3;0	.26 [*]	.029	2.13E-18	.18	.34
	3;1-4;0	.11 [*]	.030	1.85E-03	.03	.19
	5;1-6;0	-.03	.032	1.00E+00	-.12	.06
	Ref	-.05	.043	1.00E+00	-.17	.07
5;1-6;0	2;1-3;0	.30 [*]	.032	1.69E-18	.21	.39
	3;1-4;0	.14 [*]	.033	1.39E-04	.05	.24
	4;1-5;0	.03	.032	1.00E+00	-.06	.12
	Ref	-.02	.045	1.00E+00	-.14	.11
Ref	2;1-3;0	.31 [*]	.043	5.54E-12	.19	.44
	3;1-4;0	.16 [*]	.044	2.18E-03	.04	.28
	4;1-5;0	.05	.043	1.00E+00	-.07	.17
	5;1-6;0	.02	.045	1.00E+00	-.11	.14

Based on observed means.

The error term is Mean Square(Error) = .103.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T1T3
Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.13 [*]	.032	7.74E-04	-.22	-.04
	4;1-5;0	-.27 [*]	.030	2.48E-17	-.36	-.19
	5;1-6;0	-.29 [*]	.034	1.81E-15	-.38	-.19
	Ref	-.32 [*]	.046	4.86E-11	-.45	-.19
3;1-4;0	2;1-3;0	.13 [*]	.032	7.74E-04	.04	.22
	4;1-5;0	-.15 [*]	.032	4.47E-05	-.23	-.06
	5;1-6;0	-.16 [*]	.035	5.58E-05	-.26	-.06
	Ref	-.19 [*]	.047	3.21E-04	-.33	-.06

4;1-5;0	2;1-3;0	.27 [*]	.030	2.48E-17	.19	.36
	3;1-4;0	.15 [*]	.032	4.47E-05	.06	.23
	5;1-6;0	-.01	.034	1.00E+00	-.11	.08
	Ref	-.05	.046	1.00E+00	-.18	.08
5;1-6;0	2;1-3;0	.29 [*]	.034	1.81E-15	.19	.38
	3;1-4;0	.16 [*]	.035	5.58E-05	.06	.26
	4;1-5;0	.01	.034	1.00E+00	-.08	.11
	Ref	-.03	.048	1.00E+00	-.17	.10
Ref	2;1-3;0	.32 [*]	.046	4.86E-11	.19	.45
	3;1-4;0	.19 [*]	.047	3.21E-04	.06	.33
	4;1-5;0	.05	.046	1.00E+00	-.08	.18
	5;1-6;0	.03	.048	1.00E+00	-.10	.17

Based on observed means.

The error term is Mean Square(Error) = .117.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T1T4

Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.11 [*]	.030	2.14E-03	-.20	-.03
	4;1-5;0	-.28 [*]	.029	9.98E-20	-.36	-.20
	5;1-6;0	-.30 [*]	.032	2.65E-18	-.39	-.21
	Ref	-.32 [*]	.043	7.39E-12	-.44	-.19
3;1-4;0	2;1-3;0	.11 [*]	.030	2.14E-03	.03	.20
	4;1-5;0	-.16 [*]	.030	4.87E-07	-.25	-.08
	5;1-6;0	-.19 [*]	.033	3.20E-07	-.28	-.09
	Ref	-.20 [*]	.044	4.33E-05	-.33	-.08
4;1-5;0	2;1-3;0	.28 [*]	.029	9.98E-20	.20	.36
	3;1-4;0	.16 [*]	.030	4.87E-07	.08	.25
	5;1-6;0	-.02	.032	1.00E+00	-.11	.07
	Ref	-.04	.043	1.00E+00	-.16	.08
5;1-6;0	2;1-3;0	.30 [*]	.032	2.65E-18	.21	.39
	3;1-4;0	.19 [*]	.033	3.20E-07	.09	.28
	4;1-5;0	.02	.032	1.00E+00	-.07	.11
	Ref	-.02	.046	1.00E+00	-.15	.11
Ref	2;1-3;0	.32 [*]	.043	7.39E-12	.19	.44
	3;1-4;0	.20 [*]	.044	4.33E-05	.08	.33
	4;1-5;0	.04	.043	1.00E+00	-.08	.16
	5;1-6;0	.02	.046	1.00E+00	-.11	.15

Based on observed means.

The error term is Mean Square(Error) = .105.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T1T5
Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.15*	.029	5.33E-06	-.23	-.07
	4;1-5;0	-.23*	.028	2.66E-15	-.31	-.16
	5;1-6;0	-.28*	.031	7.14E-17	-.37	-.19
	Ref	-.30*	.042	1.94E-11	-.42	-.18
3;1-4;0	2;1-3;0	.15*	.029	5.33E-06	.07	.23
	4;1-5;0	-.09*	.029	3.01E-02	-.17	.00
	5;1-6;0	-.13*	.032	7.17E-04	-.22	-.04
	Ref	-.15*	.043	3.72E-03	-.27	-.03
4;1-5;0	2;1-3;0	.23*	.028	2.66E-15	.16	.31
	3;1-4;0	.09*	.029	3.01E-02	.00	.17
	5;1-6;0	-.04	.031	1.00E+00	-.13	.05
	Ref	-.07	.042	1.00E+00	-.18	.05
5;1-6;0	2;1-3;0	.28*	.031	7.14E-17	.19	.37
	3;1-4;0	.13*	.032	7.17E-04	.04	.22
	4;1-5;0	.04	.031	1.00E+00	-.05	.13
	Ref	-.02	.044	1.00E+00	-.15	.10
Ref	2;1-3;0	.30*	.042	1.94E-11	.18	.42
	3;1-4;0	.15*	.043	3.72E-03	.03	.27
	4;1-5;0	.07	.042	1.00E+00	-.05	.18
	5;1-6;0	.02	.044	1.00E+00	-.10	.15

Based on observed means.

The error term is Mean Square(Error) = .099.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T1T6
Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.13*	.033	9.73E-04	-.22	-.04
	4;1-5;0	-.27*	.031	4.10E-16	-.36	-.18
	5;1-6;0	-.27*	.035	2.69E-13	-.37	-.17
	Ref	-.33*	.047	3.75E-11	-.46	-.20
3;1-4;0	2;1-3;0	.13*	.033	9.73E-04	.04	.22
	4;1-5;0	-.14*	.032	1.55E-04	-.23	-.05
	5;1-6;0	-.14*	.036	7.30E-04	-.25	-.04
	Ref	-.20*	.048	2.30E-04	-.34	-.07

4;1-5;0	2;1-3;0	.27 [*]	.031	4.10E-16	.18	.36
	3;1-4;0	.14 [*]	.032	1.55E-04	.05	.23
	5;1-6;0	.00	.035	1.00E+00	-.10	.10
	Ref	-.06	.047	1.00E+00	-.19	.07
5;1-6;0	2;1-3;0	.27 [*]	.035	2.69E-13	.17	.37
	3;1-4;0	.14 [*]	.036	7.30E-04	.04	.25
	4;1-5;0	.00	.035	1.00E+00	-.10	.10
	Ref	-.06	.050	1.00E+00	-.20	.08
Ref	2;1-3;0	.33 [*]	.047	3.75E-11	.20	.46
	3;1-4;0	.20 [*]	.048	2.30E-04	.07	.34
	4;1-5;0	.06	.047	1.00E+00	-.07	.19
	5;1-6;0	.06	.050	1.00E+00	-.08	.20

Based on observed means.

The error term is Mean Square(Error) = .124.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T2T3

Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.13	.030	1.84E-04	-.21	-.04
	4;1-5;0	-.26 [*]	.028	9.94E-19	-.34	-.18
	5;1-6;0	-.27 [*]	.032	3.72E-16	-.36	-.18
	Ref	-.30 [*]	.043	2.26E-11	-.42	-.18
3;1-4;0	2;1-3;0	.13 [*]	.030	1.84E-04	.04	.21
	4;1-5;0	-.14 [*]	.029	3.77E-05	-.22	-.05
	5;1-6;0	-.15 [*]	.033	9.12E-05	-.24	-.05
	Ref	-.18 [*]	.043	5.32E-04	-.30	-.05
4;1-5;0	2;1-3;0	.26 [*]	.028	9.94E-19	.18	.34
	3;1-4;0	.14 [*]	.029	3.77E-05	.05	.22
	5;1-6;0	-.01	.032	1.00E+00	-.10	.08
	Ref	-.04	.042	1.00E+00	-.16	.08
5;1-6;0	2;1-3;0	.27 [*]	.032	3.72E-16	.18	.36
	3;1-4;0	.15 [*]	.033	9.12E-05	.05	.24
	4;1-5;0	.01	.032	1.00E+00	-.08	.10
	Ref	-.03	.045	1.00E+00	-.16	.10
Ref	2;1-3;0	.30 [*]	.043	2.26E-11	.18	.42
	3;1-4;0	.18 [*]	.043	5.32E-04	.05	.30
	4;1-5;0	.04	.042	1.00E+00	-.08	.16
	5;1-6;0	.03	.045	1.00E+00	-.10	.16

Based on observed means.

The error term is Mean Square(Error) = .101.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T2T4
Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.15*	.036	1.94E-04	-.25	-.05
	4;1-5;0	-.35*	.034	2.68E-22	-.45	-.25
	5;1-6;0	-.35*	.038	2.65E-18	-.46	-.24
	Ref	-.44*	.051	8.81E-16	-.58	-.29
3;1-4;0	2;1-3;0	.15*	.036	1.94E-04	.05	.25
	4;1-5;0	-.20*	.035	3.74E-07	-.30	-.10
	5;1-6;0	-.20*	.039	5.29E-06	-.31	-.09
	Ref	-.28*	.052	7.77E-07	-.43	-.14
4;1-5;0	2;1-3;0	.35*	.034	2.68E-22	.25	.45
	3;1-4;0	.20*	.035	3.74E-07	.10	.30
	5;1-6;0	.00	.038	1.00E+00	-.11	.10
	Ref	-.09	.051	9.28E-01	-.23	.06
5;1-6;0	2;1-3;0	.35*	.038	2.65E-18	.24	.46
	3;1-4;0	.20*	.039	5.29E-06	.09	.31
	4;1-5;0	.00	.038	1.00E+00	-.10	.11
	Ref	-.08	.054	1.00E+00	-.24	.07
Ref	2;1-3;0	.44*	.051	8.81E-16	.29	.58
	3;1-4;0	.28*	.052	7.77E-07	.14	.43
	4;1-5;0	.09	.051	9.28E-01	-.06	.23
	5;1-6;0	.08	.054	1.00E+00	-.07	.24

Based on observed means.

The error term is Mean Square(Error) = .147.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T2T5
Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	.03	.044	1.00E+00	-.10	.15
	4;1-5;0	-.11	.042	7.45E-02	-.23	.01
	5;1-6;0	-.15*	.047	1.20E-02	-.28	-.02
	Ref	-.44*	.063	3.78E-11	-.62	-.27
3;1-4;0	2;1-3;0	-.03	.044	1.00E+00	-.15	.10
	4;1-5;0	-.14*	.043	1.51E-02	-.26	-.02
	5;1-6;0	-.18*	.048	2.35E-03	-.31	-.04
	Ref	-.47*	.064	5.07E-12	-.65	-.29

4;1-5;0	2;1-3;0	.11	.042	7.45E-02	-.01	.23
	3;1-4;0	.14*	.043	1.51E-02	.02	.26
	5;1-6;0	-.04	.046	1.00E+00	-.17	.09
	Ref	-.33*	.062	1.63E-06	-.51	-.15
5;1-6;0	2;1-3;0	.15*	.047	1.20E-02	.02	.28
	3;1-4;0	.18*	.048	2.35E-03	.04	.31
	4;1-5;0	.04	.046	1.00E+00	-.09	.17
	Ref	-.29*	.066	1.26E-04	-.48	-.10
Ref	2;1-3;0	.44*	.063	3.78E-11	.27	.62
	3;1-4;0	.47*	.064	5.07E-12	.29	.65
	4;1-5;0	.33*	.062	1.63E-06	.15	.51
	5;1-6;0	.29*	.066	1.26E-04	.10	.48

Based on observed means.

The error term is Mean Square(Error) = .219.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T2T6

Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.12*	.032	1.38E-03	-.21	-.03
	4;1-5;0	-.24*	.030	1.94E-13	-.32	-.15
	5;1-6;0	-.27*	.034	8.57E-14	-.37	-.17
	Ref	-.31*	.046	1.85E-10	-.44	-.18
3;1-4;0	2;1-3;0	.12*	.032	1.38E-03	.03	.21
	4;1-5;0	-.12*	.032	2.67E-03	-.20	-.03
	5;1-6;0	-.15*	.035	2.78E-04	-.25	-.05
	Ref	-.19*	.047	4.90E-04	-.32	-.06
4;1-5;0	2;1-3;0	.24*	.030	1.94E-13	.15	.32
	3;1-4;0	.12*	.032	2.67E-03	.03	.20
	5;1-6;0	-.03	.034	1.00E+00	-.13	.06
	Ref	-.07	.046	1.00E+00	-.20	.05
5;1-6;0	2;1-3;0	.27*	.034	8.57E-14	.17	.37
	3;1-4;0	.15*	.035	2.78E-04	.05	.25
	4;1-5;0	.03	.034	1.00E+00	-.06	.13
	Ref	-.04	.048	1.00E+00	-.18	.09
Ref	2;1-3;0	.31*	.046	1.85E-10	.18	.44
	3;1-4;0	.19*	.047	4.90E-04	.06	.32
	4;1-5;0	.07	.046	1.00E+00	-.05	.20
	5;1-6;0	.04	.048	1.00E+00	-.09	.18

Based on observed means.

The error term is Mean Square(Error) = .117.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T3T4
Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
				Lower Bound	Upper Bound
2;1-3;0	3;1-4;0	-.10*	.035	3.54E-02	-.20 .00
	4;1-5;0	-.30*	.033	3.27E-17	-.39 -.20
	5;1-6;0	-.30*	.037	5.59E-14	-.40 -.19
	Ref	-.37*	.050	1.80E-12	-.52 -.23
3;1-4;0	2;1-3;0	.10*	.035	3.54E-02	.00 .20
	4;1-5;0	-.20*	.035	2.31E-07	-.29 -.10
	5;1-6;0	-.20*	.038	4.52E-06	-.30 -.09
	Ref	-.27*	.051	1.05E-06	-.42 -.13
4;1-5;0	2;1-3;0	.30*	.033	3.27E-17	.20 .39
	3;1-4;0	.20*	.035	2.31E-07	.10 .29
	5;1-6;0	.00	.037	1.00E+00	-.11 .10
	Ref	-.08	.050	1.00E+00	-.22 .06
5;1-6;0	2;1-3;0	.30*	.037	5.59E-14	.19 .40
	3;1-4;0	.20*	.038	4.52E-06	.09 .30
	4;1-5;0	.00	.037	1.00E+00	-.10 .11
	Ref	-.08	.053	1.00E+00	-.23 .07
Ref	2;1-3;0	.37*	.050	1.80E-12	.23 .52
	3;1-4;0	.27*	.051	1.05E-06	.13 .42
	4;1-5;0	.08	.050	1.00E+00	-.06 .22
	5;1-6;0	.08	.053	1.00E+00	-.07 .23

Based on observed means.

The error term is Mean Square(Error) = .140.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T3T5
Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
				Lower Bound	Upper Bound
2;1-3;0	3;1-4;0	-.12	.038	1.44E-02	-.23 -.01
	4;1-5;0	-.30*	.036	2.30E-15	-.40 -.20
	5;1-6;0	-.34*	.040	3.85E-15	-.45 -.22
	Ref	-.43*	.054	4.92E-14	-.58 -.28
3;1-4;0	2;1-3;0	.12	.038	1.44E-02	.01 .23
	4;1-5;0	-.18*	.037	1.28E-05	-.29 -.08
	5;1-6;0	-.21*	.041	2.57E-06	-.33 -.10
	Ref	-.31*	.055	2.00E-07	-.46 -.16

4;1-5;0	2;1-3;0	.30 [*]	.036	2.30E-15	.20	.40
	3;1-4;0	.18 [*]	.037	1.28E-05	.08	.29
	5;1-6;0	-.03	.040	1.00E+00	-.15	.08
5;1-6;0	Ref	-.13	.054	1.65E-01	-.28	.02
	2;1-3;0	.34 [*]	.040	3.85E-15	.22	.45
	3;1-4;0	.21 [*]	.041	2.57E-06	.10	.33
	4;1-5;0	.03	.040	1.00E+00	-.08	.15
Ref	Ref	-.10	.057	9.31E-01	-.25	.06
	2;1-3;0	.43 [*]	.054	4.92E-14	.28	.58
	3;1-4;0	.31 [*]	.055	2.00E-07	.16	.46
	4;1-5;0	.13	.054	1.65E-01	-.02	.28
	5;1-6;0	.10	.057	9.31E-01	-.06	.25

Based on observed means.

The error term is Mean Square(Error) = .162.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T3T6

Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
				Lower Bound	Upper Bound
2;1-3;0	3;1-4;0	-.03	.046	1.00E+00	-.16 .10
	4;1-5;0	-.08	.044	8.33E-01	-.20 .05
	5;1-6;0	-.13	.050	1.05E-01	-.27 .01
	Ref	-.39 [*]	.066	6.66E-08	-.58 -.20
3;1-4;0	2;1-3;0	.03	.046	1.00E+00	-.10 .16
	4;1-5;0	-.05	.046	1.00E+00	-.18 .08
	5;1-6;0	-.10	.051	5.20E-01	-.24 .04
	Ref	-.36 [*]	.067	1.11E-06	-.55 -.17
4;1-5;0	2;1-3;0	.08	.044	8.33E-01	-.05 .20
	3;1-4;0	.05	.046	1.00E+00	-.08 .18
	5;1-6;0	-.05	.049	1.00E+00	-.19 .09
	Ref	-.31 [*]	.066	2.67E-05	-.50 -.13
5;1-6;0	2;1-3;0	.13	.050	1.05E-01	-.01 .27
	3;1-4;0	.10	.051	5.20E-01	-.04 .24
	4;1-5;0	.05	.049	1.00E+00	-.09 .19
	Ref	-.26 [*]	.070	1.88E-03	-.46 -.07
Ref	2;1-3;0	.39 [*]	.066	6.66E-08	.20 .58
	3;1-4;0	.36 [*]	.067	1.11E-06	.17 .55
	4;1-5;0	.31 [*]	.066	2.67E-05	.13 .50
	5;1-6;0	.26 [*]	.070	1.88E-03	.07 .46

Based on observed means.

The error term is Mean Square(Error) = .246.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T4T5
Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.01	.037	1.00E+00	-.12	.09
	4;1-5;0	-.22*	.036	1.69E-08	-.32	-.12
	5;1-6;0	-.26*	.040	8.77E-10	-.37	-.15
	Ref	-.36*	.053	4.10E-10	-.51	-.21
3;1-4;0	2;1-3;0	.01	.037	1.00E+00	-.09	.12
	4;1-5;0	-.21*	.037	2.86E-07	-.31	-.10
	5;1-6;0	-.25*	.041	1.29E-08	-.37	-.14
	Ref	-.35*	.054	2.70E-09	-.50	-.19
4;1-5;0	2;1-3;0	.22*	.036	1.69E-08	.12	.32
	3;1-4;0	.21*	.037	2.86E-07	.10	.31
	5;1-6;0	-.05	.040	1.00E+00	-.16	.07
	Ref	-.14	.053	8.41E-02	-.29	.01
5;1-6;0	2;1-3;0	.26*	.040	8.77E-10	.15	.37
	3;1-4;0	.25*	.041	1.29E-08	.14	.37
	4;1-5;0	.05	.040	1.00E+00	-.07	.16
	Ref	-.10	.056	9.06E-01	-.25	.06
Ref	2;1-3;0	.36*	.053	4.10E-10	.21	.51
	3;1-4;0	.35*	.054	2.70E-09	.19	.50
	4;1-5;0	.14	.053	8.41E-02	-.01	.29
	5;1-6;0	.10	.056	9.06E-01	-.06	.25

Based on observed means.

The error term is Mean Square(Error) = .159.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T4T6
Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.06	.041	1.00E+00	-.18	.05
	4;1-5;0	-.20*	.039	4.60E-06	-.31	-.09
	5;1-6;0	-.28*	.043	3.27E-09	-.40	-.15
	Ref	-.43*	.058	3.19E-12	-.60	-.27
3;1-4;0	2;1-3;0	.06	.041	1.00E+00	-.05	.18
	4;1-5;0	-.14*	.040	7.53E-03	-.25	-.02
	5;1-6;0	-.22*	.045	1.74E-05	-.34	-.09
	Ref	-.37*	.059	6.39E-09	-.54	-.20
4;1-5;0	2;1-3;0	.20*	.039	4.60E-06	.09	.31
	3;1-4;0	.14*	.040	7.53E-03	.02	.25

	5;1-6;0	-.08	.043	6.58E-01	-.20	.04
	Ref	-.23*	.058	5.92E-04	-.40	-.07
5;1-6;0	2;1-3;0	.28*	.043	3.27E-09	.15	.40
	3;1-4;0	.22*	.045	1.74E-05	.09	.34
	4;1-5;0	.08	.043	6.58E-01	-.04	.20
	Ref	-.15	.061	1.18E-01	-.33	.02
Ref	2;1-3;0	.43*	.058	3.19E-12	.27	.60
	3;1-4;0	.37*	.059	6.39E-09	.20	.54
	4;1-5;0	.23*	.058	5.92E-04	.07	.40
	5;1-6;0	.15	.061	1.18E-01	-.02	.33

Based on observed means.

The error term is Mean Square(Error) = .189.

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: score for tone pair T5T6

Bonferroni

(I) ageYear	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
				Lower Bound	Upper Bound	
2;1-3;0	3;1-4;0	-.07	.038	7.89E-01	-.17 .04	
	4;1-5;0	-.26*	.037	6.10E-11	-.36	-.15
	5;1-6;0	-.26*	.041	1.76E-09	-.38	-.15
	Ref	-.40*	.055	1.21E-11	-.55	-.24
3;1-4;0	2;1-3;0	.07	.038	7.89E-01	-.04	.17
	4;1-5;0	-.19*	.038	8.00E-06	-.29	-.08
	5;1-6;0	-.20*	.042	3.10E-05	-.32	-.08
	Ref	-.33*	.056	5.26E-08	-.49	-.17
4;1-5;0	2;1-3;0	.26*	.037	6.10E-11	.15	.36
	3;1-4;0	.19*	.038	8.00E-06	.08	.29
	5;1-6;0	-.01	.041	1.00E+00	-.12	.10
	Ref	-.14	.055	1.02E-01	-.29	.01
5;1-6;0	2;1-3;0	.26*	.041	1.76E-09	.15	.38
	3;1-4;0	.20*	.042	3.10E-05	.08	.32
	4;1-5;0	.01	.041	1.00E+00	-.10	.12
	Ref	-.13	.058	2.34E-01	-.29	.03
Ref	2;1-3;0	.40*	.055	1.21E-11	.24	.55
	3;1-4;0	.33*	.056	5.26E-08	.17	.49
	4;1-5;0	.14	.055	1.02E-01	-.01	.29
	5;1-6;0	.13	.058	2.34E-01	-.03	.29

Based on observed means.

The error term is Mean Square(Error) = .168.

*. The mean difference is significant at the 0.05 level.