

Voltage measured from uninoculated medium, culture and purified magnetosomes

Please note: the numbers in headings refer to repetitions of the set. Eg. the voltage measured on the medium was repeated 5 times.

Abbreviations: Med = medium Pos = positive Abs = absolute Magn = magnetosome Cul = culture Neg = negative

Only measuren

Positive															
	Med 1	Med 1 pos	Med 1 abs	Med 2	Med 2 pos	Med 2 abs	Med 3	Med 3 pos	Med 3 abs	Med 4	Med 4 pos	Med 4 abs	Med 5	Med 5 pos	Med 5 abs
0	1.33569	1.33569	1.33569	-0.322705	FALSE	0.322705	-0.84616	FALSE	0.84616	-0.84616	FALSE	0.84616	-0.869992	FALSE	0.869992
1	-0.927319	FALSE	0.927319	0.198282	0.198282	0.198282	0.152979	0.152979	0.152979	0.152979	0.152979	0.152979	-0.054213	FALSE	0.054213
2	-0.748146	FALSE	0.748146	-0.622328	FALSE	0.622328	0.072249	0.072249	0.072249	0.072249	0.072249	0.072249	0.287171	0.287171	0.287171
3	1.01084	1.01084	1.01084	-0.717443	FALSE	0.717443	-0.966074	FALSE	0.966074	-0.966074	FALSE	0.966074	-1.10939	FALSE	1.10939
4	-0.763605	FALSE	0.763605	0.09694	0.09694	0.09694	-0.548898	FALSE	0.548898	-0.548898	FALSE	0.548898	-0.247879	FALSE	0.247879
5	-1.38604	FALSE	1.38604	-0.099946	FALSE	0.099946	-0.004509	FALSE	0.004509	-0.004509	FALSE	0.004509	-0.11723	FALSE	0.11723
6	1.17133	1.17133	1.17133	-0.887276	FALSE	0.887276	-0.683734	FALSE	0.683734	-0.683734	FALSE	0.683734	-1.47622	FALSE	1.47622
7	-0.385936	FALSE	0.385936	0.099517	0.099517	0.099517	-0.574019	FALSE	0.574019	-0.574019	FALSE	0.574019	-0.452173	FALSE	0.452173
8	-1.16307	FALSE	1.16307	0.418786	0.418786	0.418786	0.041116	0.041116	0.041116	0.041116	0.041116	0.041116	0.36994	0.36994	0.36994
9	0.484701	0.484701	0.484701	-1.06259	FALSE	1.06259	-0.496617	FALSE	0.496617	-0.496617	FALSE	0.496617	-0.044337	FALSE	0.044337
10	-0.902091	FALSE	0.902091	-0.452602	FALSE	0.452602	-0.805473	FALSE	0.805473	-0.805473	FALSE	0.805473	-0.570798	FALSE	0.570798
11	-1.0453	FALSE	1.0453	0.364036	0.364036	0.364036	-0.129576	FALSE	0.129576	-0.129576	FALSE	0.129576	0.204723	0.204723	0.204723
12	0.001718	0.001718	0.001718	-0.780889	FALSE	0.780889	0.086849	0.086849	0.086849	0.086849	0.086849	0.086849	0.332581	0.332581	0.332581
13	0.151905	0.151905	0.151905	-0.698334	FALSE	0.698334	-0.840578	FALSE	0.840578	-0.840578	FALSE	0.840578	-1.1665	FALSE	1.1665
14	-0.960921	FALSE	0.960921	0.161245	0.161245	0.161245	-0.2876	FALSE	0.2876	-0.2876	FALSE	0.2876	-0.071605	FALSE	0.071605
15	-0.362103	FALSE	0.362103	-0.705849	FALSE	0.705849	0.120129	0.120129	0.120129	0.120129	0.120129	0.120129	0.413311	0.413311	0.413311
16	0.260869	0.260869	0.260869	-0.701662	FALSE	0.701662	-0.743852	FALSE	0.743852	-0.743852	FALSE	0.743852	-0.97595	FALSE	0.97595
17	-0.864517	FALSE	0.864517	-0.038862	FALSE	0.038862	-0.404078	FALSE	0.404078	-0.404078	FALSE	0.404078	-0.003972	FALSE	0.003972
18	-0.611271	FALSE	0.611271	-0.618356	FALSE	0.618356	0.050778	0.050778	0.050778	0.050778	0.050778	0.050778	0.065378	0.065378	0.065378
19	0.800857	0.800857	0.800857	-0.571228	FALSE	0.571228	-0.602468	FALSE	0.602468	-0.602468	FALSE	0.602468	-1.73655	FALSE	1.73655
20	-0.867416	FALSE	0.867416	0.001396	0.001396	0.001396	-0.441115	FALSE	0.441115	-0.441115	FALSE	0.441115	-0.354159	FALSE	0.354159
21	-1.00075	FALSE	1.00075	0.126677	0.126677	0.126677	0.044444	0.044444	0.044444	0.044444	0.044444	0.044444	0.366075	0.366075	0.366075
22	1.07901	1.07901	1.07901	-0.890604	FALSE	0.890604	-0.388083	FALSE	0.388083	-0.388083	FALSE	0.388083	-0.409339	FALSE	0.409339
23	-1.44273	FALSE	1.44273	-0.244444	FALSE	0.244444	-0.638216	FALSE	0.638216	-0.638216	FALSE	0.638216	-0.466665	FALSE	0.466665
24	-0.84777	FALSE	0.84777	0.258829	0.258829	0.258829	-0.035427	FALSE	0.035427	-0.035427	FALSE	0.035427	0.296832	0.296832	0.296832
25	0.343531	0.343531	0.343531	-0.82061	FALSE	0.82061	0.099731	0.099731	0.099731	0.099731	0.099731	0.099731	0.359312	0.359312	0.359312
26	-0.832526	FALSE	0.832526	-0.376811	FALSE	0.376811	-0.745785	FALSE	0.745785	-0.745785	FALSE	0.745785	-1.11315	FALSE	1.11315
27	-0.608265	FALSE	0.608265	0.357594	0.357594	0.357594	-0.243478	FALSE	0.243478	-0.243478	FALSE	0.243478	-0.095008	FALSE	0.095008
28	0.094578	0.094578	0.094578	-0.504883	FALSE	0.504883	0.146001	0.146001	0.146001	0.146001	0.146001	0.146001	0.280622	0.280622	0.280622
29	-0.540095	FALSE	0.540095	-0.636499	FALSE	0.636499	-0.895006	FALSE	0.895006	-0.895006	FALSE	0.895006	-1.07322	FALSE	1.07322
30	-0.773052	FALSE	0.773052	0.342994	0.342994	0.342994	-0.412774	FALSE	0.412774	-0.412774	FALSE	0.412774	-0.018357	FALSE	0.018357
31	-0.213526	FALSE	0.213526	-0.554481	FALSE	0.554481	0.117981	0.117981	0.117981	0.117981	0.117981	0.117981	0.249167	0.249167	0.249167
32	0.305421	0.305421	0.305421	-0.425871	FALSE	0.425871	-0.814491	FALSE	0.814491	-0.814491	FALSE	0.814491	-1.63639	FALSE	1.63639
33	-0.81127	FALSE	0.81127	0.046377	0.046377	0.046377	-0.549757	FALSE	0.549757	-0.549757	FALSE	0.549757	-0.06774	FALSE	0.06774
34	-0.55491	FALSE	0.55491	-0.315082	FALSE	0.315082	0.020934	0.020934	0.020934	0.020934	0.020934	0.020934	0.234889	0.234889	0.234889
35	-1.87021	FALSE	1.87021	-0.614277	FALSE	0.614277	-0.711646	FALSE	0.711646	-0.711646	FALSE	0.711646	-0.886095	FALSE	0.886095
36	-0.78572	FALSE	0.78572	-0.140418	FALSE	0.140418	-0.639719	FALSE	0.639719	-0.639719	FALSE	0.639719	-0.526676	FALSE	0.526676
37	-0.323885	FALSE	0.323885	0.108427	0.108427	0.108427	0.135909	0.135909	0.135909	0.135909	0.135909	0.135909	0.477508	0.477508	0.477508

38	0.130434	0.130434	0.130434	-0.852494	FALSE	0.852494	-0.018572	FALSE	0.018572	-0.018572	FALSE	0.018572	0.09329	0.09329	0.09329
39	-1.27225	FALSE	1.27225	-0.178314	FALSE	0.178314	-0.749005	FALSE	0.749005	-0.749005	FALSE	0.749005	-0.948897	FALSE	0.948897
40	-0.430809	FALSE	0.430809	0.201288	0.201288	0.201288	-0.074718	FALSE	0.074718	-0.074718	FALSE	0.074718	0.427804	0.427804	0.427804
41	-0.252817	FALSE	0.252817	-0.670315	FALSE	0.670315	0.25067	0.25067	0.25067	0.25067	0.25067	0.25067	0.485452	0.485452	0.485452
42	-0.88309	FALSE	0.88309	-0.385506	FALSE	0.385506	-0.916906	FALSE	0.916906	-0.916906	FALSE	0.916906	-1.22984	FALSE	1.22984
43	-0.70177	FALSE	0.70177	0.113473	0.113473	0.113473	-0.412989	FALSE	0.412989	-0.412989	FALSE	0.412989	0.111433	0.111433	0.111433
44	0.084272	0.084272	0.084272	-0.622757	FALSE	0.622757	0.201395	0.201395	0.201395	0.201395	0.201395	0.201395	0.114976	0.114976	0.114976
45	0.015029	0.015029	0.015029	-0.470745	FALSE	0.470745	-0.6555	FALSE	0.6555	-0.6555	FALSE	0.6555	-1.90392	FALSE	1.90392
46	-0.645516	FALSE	0.645516	0.043156	0.043156	0.043156	-0.610519	FALSE	0.610519	-0.610519	FALSE	0.610519	-0.100161	FALSE	0.100161
47	-0.14686	FALSE	0.14686	-0.671818	FALSE	0.671818	-0.048416	FALSE	0.048416	-0.048416	FALSE	0.048416	0.39549	0.39549	0.39549
48	0.156199	0.156199	0.156199	-0.607621	FALSE	0.607621	-0.652387	FALSE	0.652387	-0.652387	FALSE	0.652387	-1.25271	FALSE	1.25271
49	-1.00204	FALSE	1.00204	-0.038325	FALSE	0.038325	-0.589693	FALSE	0.589693	-0.589693	FALSE	0.589693	-0.577991	FALSE	0.577991
50	-0.271604	FALSE	0.271604	-0.116908	FALSE	0.116908	-0.10102	FALSE	0.10102	-0.10102	FALSE	0.10102	0.855929	0.855929	0.855929
51	0.358131	0.358131	0.358131	-0.875253	FALSE	0.875253	0.269779	FALSE	0.269779	-0.269779	FALSE	0.269779	0.045518	0.045518	0.045518
52	-0.765752	FALSE	0.765752	-0.110574	FALSE	0.110574	-0.720342	FALSE	0.720342	-0.720342	FALSE	0.720342	-1.09962	FALSE	1.09962
53	-0.84251	FALSE	0.84251	0.19957	0.19957	0.19957	-0.064412	FALSE	0.064412	-0.064412	FALSE	0.064412	0.398174	0.398174	0.398174
54	0.155448	0.155448	0.155448	-1.02319	FALSE	1.02319	0.038325	0.038325	0.038325	0.038325	0.038325	0.038325	0.467739	0.467739	0.467739
55	-0.761458	FALSE	0.761458	-0.455179	FALSE	0.455179	-0.851742	FALSE	0.851742	-0.851742	FALSE	0.851742	-1.24058	FALSE	1.24058
56	-0.767363	FALSE	0.767363	0.330327	0.330327	0.330327	0.010091	0.010091	0.010091	0.010091	0.010091	0.010091	0.112936	0.112936	0.112936
57	-0.000322	FALSE	0.000322	-0.747824	FALSE	0.747824	0.337519	0.337519	0.337519	0.337519	0.337519	0.337519	0.40322	0.40322	0.40322
58	-0.081911	FALSE	0.081911	-0.555554	FALSE	0.555554	-0.813095	FALSE	0.813095	-0.813095	FALSE	0.813095	-1.82243	FALSE	1.82243
59	-1.34256	FALSE	1.34256	0.149007	0.149007	0.149007	-0.238003	FALSE	0.238003	-0.238003	FALSE	0.238003	0.07139	0.07139	0.07139
60	-0.150617	FALSE	0.150617	-0.840685	FALSE	0.840685	0.226838	0.226838	0.226838	0.226838	0.226838	0.226838	0.544711	0.544711	0.544711

Ave  
Variance

Neg															
	Med 1	Med 1 neg	Med 1 abs	Med 2	Med 2 neg	Med 2 abs	Med 3	Med 3 neg	Med 3 abs	Med 4	Med 4 neg	Med 4 abs	Med 5	Med 5 neg	Med 5 abs
0	1.33569	FALSE	1.33569	-0.322705	-0.322705	0.322705	-0.84616	-0.84616	0.84616	-0.84616	-0.84616	0.84616	-0.869992	-0.869992	0.869992
1	-0.927319	-0.927319	0.927319	0.198282	FALSE	0.198282	0.152979	FALSE	0.152979	0.152979	FALSE	0.152979	-0.054213	-0.054213	0.054213
2	-0.748146	-0.748146	0.748146	-0.622328	-0.622328	0.622328	0.072249	FALSE	0.072249	0.072249	FALSE	0.072249	0.287171	FALSE	0.287171
3	1.01084	FALSE	1.01084	-0.717443	-0.717443	0.717443	-0.966074	-0.966074	0.966074	-0.966074	-0.966074	0.966074	-1.10939	-1.10939	1.10939
4	-0.763605	-0.763605	0.763605	0.09694	FALSE	0.09694	-0.548898	-0.548898	0.548898	-0.548898	-0.548898	0.548898	-0.247879	-0.247879	0.247879
5	-1.38604	-1.38604	1.38604	-0.099946	-0.099946	0.099946	-0.004509	-0.004509	0.004509	-0.004509	-0.004509	0.004509	-0.11723	-0.11723	0.11723
6	1.17133	FALSE	1.17133	-0.887276	-0.887276	0.887276	-0.683734	-0.683734	0.683734	-0.683734	-0.683734	0.683734	-1.47622	-1.47622	1.47622
7	-0.385936	-0.385936	0.385936	0.099517	FALSE	0.099517	-0.574019	-0.574019	0.574019	-0.574019	-0.574019	0.574019	-0.452173	-0.452173	0.452173
8	-1.16307	-1.16307	1.16307	0.418786	FALSE	0.418786	0.041116	FALSE	0.041116	0.041116	FALSE	0.041116	0.36994	FALSE	0.36994
9	0.484701	FALSE	0.484701	-1.06259	-1.06259	1.06259	-0.496617	-0.496617	0.496617	-0.496617	-0.496617	0.496617	-0.044337	-0.044337	0.044337
10	-0.902091	-0.902091	0.902091	-0.452602	-0.452602	0.452602	-0.805473	-0.805473	0.805473	-0.805473	-0.805473	0.805473	-0.570798	-0.570798	0.570798
11	-1.0453	-1.0453	1.0453	0.364036	FALSE	0.364036	-0.129576	-0.129576	0.129576	-0.129576	-0.129576	0.129576	0.204723	FALSE	0.204723

12	0.001718	FALSE	0.001718	-0.780889	-0.780889	0.780889	0.086849	FALSE	0.086849	0.086849	FALSE	0.086849	0.332581	FALSE	0.332581
13	0.151905	FALSE	0.151905	-0.698334	-0.698334	0.698334	-0.840578	-0.840578	0.840578	-0.840578	-0.840578	0.840578	-1.1665	-1.1665	1.1665
14	-0.960921	-0.960921	0.960921	0.161245	FALSE	0.161245	-0.2876	-0.2876	0.2876	-0.2876	-0.2876	0.2876	-0.071605	-0.071605	0.071605
15	-0.362103	-0.362103	0.362103	-0.705849	-0.705849	0.705849	0.120129	FALSE	0.120129	0.120129	FALSE	0.120129	0.413311	FALSE	0.413311
16	0.260869	FALSE	0.260869	-0.701662	-0.701662	0.701662	-0.743852	-0.743852	0.743852	-0.743852	-0.743852	0.743852	-0.97595	-0.97595	0.97595
17	-0.864517	-0.864517	0.864517	-0.038862	-0.038862	0.038862	-0.404078	-0.404078	0.404078	-0.404078	-0.404078	0.404078	-0.003972	-0.003972	0.003972
18	-0.611271	-0.611271	0.611271	-0.618356	-0.618356	0.618356	0.050778	FALSE	0.050778	0.050778	FALSE	0.050778	0.065378	FALSE	0.065378
19	0.800857	FALSE	0.800857	-0.571228	-0.571228	0.571228	-0.602468	-0.602468	0.602468	-0.602468	-0.602468	0.602468	-1.73655	-1.73655	1.73655
20	-0.867416	-0.867416	0.867416	0.001396	FALSE	0.001396	-0.441115	-0.441115	0.441115	-0.441115	-0.441115	0.441115	-0.354159	-0.354159	0.354159
21	-1.00075	-1.00075	1.00075	0.126677	FALSE	0.126677	0.044444	FALSE	0.044444	0.044444	FALSE	0.044444	0.366075	FALSE	0.366075
22	1.07901	FALSE	1.07901	-0.890604	-0.890604	0.890604	-0.388083	-0.388083	0.388083	-0.388083	-0.388083	0.388083	-0.409339	-0.409339	0.409339
23	-1.44273	-1.44273	1.44273	-0.244444	-0.244444	0.244444	-0.638216	-0.638216	0.638216	-0.638216	-0.638216	0.638216	-0.466665	-0.466665	0.466665
24	-0.84777	-0.84777	0.84777	0.258829	FALSE	0.258829	-0.035427	-0.035427	0.035427	-0.035427	-0.035427	0.035427	0.296832	FALSE	0.296832
25	0.343531	FALSE	0.343531	-0.82061	-0.82061	0.82061	0.099731	FALSE	0.099731	0.099731	FALSE	0.099731	0.359312	FALSE	0.359312
26	-0.832526	-0.832526	0.832526	-0.376811	-0.376811	0.376811	-0.745785	-0.745785	0.745785	-0.745785	-0.745785	0.745785	-1.11315	-1.11315	1.11315
27	-0.608265	-0.608265	0.608265	0.357594	FALSE	0.357594	-0.243478	-0.243478	0.243478	-0.243478	-0.243478	0.243478	-0.095008	-0.095008	0.095008
28	0.094578	FALSE	0.094578	-0.504883	-0.504883	0.504883	0.146001	FALSE	0.146001	0.146001	FALSE	0.146001	0.280622	FALSE	0.280622
29	-0.540095	-0.540095	0.540095	-0.636499	-0.636499	0.636499	-0.895006	-0.895006	0.895006	-0.895006	-0.895006	0.895006	-1.07322	-1.07322	1.07322
30	-0.773052	-0.773052	0.773052	0.342994	FALSE	0.342994	-0.412774	-0.412774	0.412774	-0.412774	-0.412774	0.412774	-0.018357	-0.018357	0.018357
31	-0.213526	-0.213526	0.213526	-0.554481	-0.554481	0.554481	0.117981	FALSE	0.117981	0.117981	FALSE	0.117981	0.249167	FALSE	0.249167
32	0.305421	FALSE	0.305421	-0.425871	-0.425871	0.425871	-0.814491	-0.814491	0.814491	-0.814491	-0.814491	0.814491	-1.63639	-1.63639	1.63639
33	-0.81127	-0.81127	0.81127	0.046377	FALSE	0.046377	-0.549757	-0.549757	0.549757	-0.549757	-0.549757	0.549757	-0.06774	-0.06774	0.06774
34	-0.55491	-0.55491	0.55491	-0.315082	-0.315082	0.315082	0.020934	FALSE	0.020934	0.020934	FALSE	0.020934	0.234889	FALSE	0.234889
35	-1.87021	-1.87021	1.87021	-0.614277	-0.614277	0.614277	-0.711646	-0.711646	0.711646	-0.711646	-0.711646	0.711646	-0.886095	-0.886095	0.886095
36	-0.78572	-0.78572	0.78572	-0.140418	-0.140418	0.140418	-0.639719	-0.639719	0.639719	-0.639719	-0.639719	0.639719	-0.526676	-0.526676	0.526676
37	-0.323885	-0.323885	0.323885	0.108427	FALSE	0.108427	0.135909	FALSE	0.135909	0.135909	FALSE	0.135909	0.477508	FALSE	0.477508
38	0.130434	FALSE	0.130434	-0.852494	-0.852494	0.852494	-0.018572	-0.018572	0.018572	-0.018572	-0.018572	0.018572	0.09329	FALSE	0.09329
39	-1.27225	-1.27225	1.27225	-0.178314	-0.178314	0.178314	-0.749005	-0.749005	0.749005	-0.749005	-0.749005	0.749005	-0.948897	-0.948897	0.948897
40	-0.430809	-0.430809	0.430809	0.201288	FALSE	0.201288	-0.074718	-0.074718	0.074718	-0.074718	-0.074718	0.074718	0.427804	FALSE	0.427804
41	-0.252817	-0.252817	0.252817	-0.670315	-0.670315	0.670315	0.25067	FALSE	0.25067	0.25067	FALSE	0.25067	0.485452	FALSE	0.485452
42	-0.88309	-0.88309	0.88309	-0.385506	-0.385506	0.385506	-0.916906	-0.916906	0.916906	-0.916906	-0.916906	0.916906	-1.22984	-1.22984	1.22984
43	-0.70177	-0.70177	0.70177	0.113473	FALSE	0.113473	-0.412989	-0.412989	0.412989	-0.412989	-0.412989	0.412989	0.111433	FALSE	0.111433
44	0.084272	FALSE	0.084272	-0.622757	-0.622757	0.622757	0.201395	FALSE	0.201395	0.201395	FALSE	0.201395	0.114976	FALSE	0.114976
45	0.015029	FALSE	0.015029	-0.470745	-0.470745	0.470745	-0.6555	-0.6555	0.6555	-0.6555	-0.6555	0.6555	-1.90392	-1.90392	1.90392
46	-0.645516	-0.645516	0.645516	0.043156	FALSE	0.043156	-0.610519	-0.610519	0.610519	-0.610519	-0.610519	0.610519	-0.100161	-0.100161	0.100161
47	-0.14686	-0.14686	0.14686	-0.671818	-0.671818	0.671818	-0.048416	-0.048416	0.048416	-0.048416	-0.048416	0.048416	0.39549	FALSE	0.39549
48	0.156199	FALSE	0.156199	-0.607621	-0.607621	0.607621	-0.652387	-0.652387	0.652387	-0.652387	-0.652387	0.652387	-1.25271	-1.25271	1.25271
49	-1.00204	-1.00204	1.00204	-0.038325	-0.038325	0.038325	-0.589693	-0.589693	0.589693	-0.589693	-0.589693	0.589693	-0.577991	-0.577991	0.577991
50	-0.271604	-0.271604	0.271604	-0.116908	-0.116908	0.116908	-0.10102	-0.10102	0.10102	-0.10102	-0.10102	0.10102	0.855929	FALSE	0.855929
51	0.358131	FALSE	0.358131	-0.875253	-0.875253	0.875253	-0.269779	-0.269779	0.269779	-0.269779	-0.269779	0.269779	0.045518	FALSE	0.045518
52	-0.765752	-0.765752	0.765752	-0.110574	-0.110574	0.110574	-0.720342	-0.720342	0.720342	-0.720342	-0.720342	0.720342	-1.09962	-1.09962	1.09962
53	-0.84251	-0.84251	0.84251	0.19957	FALSE	0.19957	-0.064412	-0.064412	0.064412	-0.064412	-0.064412	0.064412	0.398174	FALSE	0.398174
54	0.155448	FALSE	0.155448	-1.02319	-1.02319	1.02319	0.038325	FALSE	0.038325	0.038325	FALSE	0.038325	0.467739	FALSE	0.467739
55	-0.761458	-0.761458	0.761458	-0.455179	-0.455179	0.455179	-0.851742	-0.851742	0.851742	-0.851742	-0.851742	0.851742	-1.24058	-1.24058	1.24058
56	-0.767363	-0.767363	0.767363	0.330327	FALSE	0.330327	0.010091	FALSE	0.010091	0.010091	FALSE	0.010091	0.112936	FALSE	0.112936

57	-0.000322	-0.000322	0.000322	-0.747824	-0.747824	0.747824	0.337519	FALSE	0.337519	0.337519	FALSE	0.337519	0.40322	FALSE	0.40322
58	-0.081911	-0.081911	0.081911	-0.555554	-0.555554	0.555554	-0.813095	-0.813095	0.813095	-0.813095	-0.813095	0.813095	-1.82243	-1.82243	1.82243
59	-1.34256	-1.34256	1.34256	0.149007	FALSE	0.149007	-0.238003	-0.238003	0.238003	-0.238003	-0.238003	0.238003	0.07139	FALSE	0.07139
60	-0.150617	-0.150617	0.150617	-0.840685	-0.840685	0.840685	0.226838	FALSE	0.226838	0.226838	FALSE	0.226838	0.544711	FALSE	0.544711

Ave  
Variance



ment 5 to 55 have been used in calculations.

Med abs ave	Med pos ave	Sw	Cul 1	Cul 1 pos	Cul 1 abs	Cul 2	Cul 2 pos	Cul 2 abs	Cul 3	Cul 3 pos	Cul 3 abs	Cul 4	Cul 4 pos
0.14841	1.33569	1.27161342	-1.25518	FALSE	1.25518	0.063875	0.063875	0.063875	-0.052496	FALSE	0.052496	-0.870851	FALSE
0.203336583	0.16808	0.001596132	0.484057	0.484057	0.484057	-0.712183	FALSE	0.712183	-1.0059	FALSE	1.0059	-0.470208	FALSE
0.17026275	0.143889667	0.00411419	-0.280193	FALSE	0.280193	-0.291143	FALSE	0.291143	-0.039828	FALSE	0.039828	0.540739	0.540739
0.112315556	1.01084	0.644501294	-1.54009	FALSE	1.54009	0.06409	0.06409	0.06409	0.163177	0.163177	0.163177	-0.865484	FALSE
0.1054425	0.09694	0.012341348	0.336016	0.336016	0.336016	-0.630916	FALSE	0.630916	-0.702414	FALSE	0.702414	0.110574	0.110574
0.154004444	0	0.043277155	0.565967	0.565967	0.565967	-0.511002	FALSE	0.511002	-0.285238	FALSE	0.285238	0.120987	0.120987
0.130147778	1.17133	0.927943767	-1.17123	FALSE	1.17123	-0.104992	FALSE	0.104992	0.957486	0.957486	0.957486	-0.868704	FALSE
0.0684487	0.099517	0.011775423	-0.233601	FALSE	0.233601	-0.197208	FALSE	0.197208	-0.80601	FALSE	0.80601	-2.30982	FALSE
0.290457231	0.2177395	9.42429E-05	0.84412	0.84412	0.84412	-0.880513	FALSE	0.880513	-0.529038	FALSE	0.529038	1.00386	1.00386
0.053855667	0.484701	0.076545945	-1.22995	FALSE	1.22995	-0.097477	FALSE	0.097477	0.70338	0.70338	0.70338	0.365216	0.365216
0.100232333	0	0.043277155	-0.33344	FALSE	0.33344	-0.006763	FALSE	0.006763	-0.515726	FALSE	0.515726	-1.28567	FALSE
0.250143364	0.2843795	0.005828999	1.05732	1.05732	1.05732	-0.614169	FALSE	0.614169	-0.728608	FALSE	0.728608	0.901125	0.901125
0.126712917	0.12699925	0.006566245	-0.797958	FALSE	0.797958	-0.241438	FALSE	0.241438	0.256575	0.256575	0.256575	0.74879	0.74879
0.016878333	0.151905	0.003150198	-1.21922	FALSE	1.21922	0.373268	0.373268	0.373268	-0.015029	FALSE	0.015029	-1.90875	FALSE
0.1444656	0.161245	0.002188988	0.721201	0.721201	0.721201	-0.691142	FALSE	0.691142	-1.6541	FALSE	1.6541	-0.255072	FALSE
0.1935675	0.217856333	9.6525E-05	-0.211164	FALSE	0.211164	-0.533439	FALSE	0.533439	0.210198	0.210198	0.210198	1.19184	1.19184
0.028985444	0.260869	0.002791789	-1.55802	FALSE	1.55802	-0.164036	FALSE	0.164036	0.100483	0.100483	0.100483	-1.54428	FALSE
0.096057444	0	0.043277155	0.57724	0.57724	0.57724	-0.674931	FALSE	0.674931	-0.76221	FALSE	0.76221	0.239935	0.239935
0.09267275	0.055644667	0.023221784	0.485023	0.485023	0.485023	-0.547932	FALSE	0.547932	-0.14686	FALSE	0.14686	0.256682	0.256682
0.088984111	0.800857	0.35144193	-1.4555	FALSE	1.4555	-0.050993	FALSE	0.050993	0.673536	0.673536	0.673536	-1.37101	FALSE
0.0871604	0.001396	0.04269828	-0.007944	FALSE	0.007944	-0.0146	FALSE	0.0146	-0.928607	FALSE	0.928607	-1.91755	FALSE
0.211205385	0.14541	0.003921467	1.05378	1.05378	1.05378	-0.618356	FALSE	0.618356	-0.458507	FALSE	0.458507	1.36629	1.36629
0.11989	1.07901	0.758603337	-1.42029	FALSE	1.42029	-0.309071	FALSE	0.309071	0.655822	0.655822	0.655822	0.191089	0.191089
0.160303333	0	0.043277155	-0.226623	FALSE	0.226623	-0.240901	FALSE	0.240901	-0.529038	FALSE	0.529038	-1.30048	FALSE
0.228613909	0.2778305	0.004871884	1.31937	1.31937	1.31937	-0.847985	FALSE	0.847985	-0.559419	FALSE	0.559419	0.726783	0.726783
0.168321083	0.22557625	0.000307814	-1.09909	FALSE	1.09909	-0.282018	FALSE	0.282018	0.136768	0.136768	0.136768	0.785613	0.785613
0.092502889	0	0.043277155	-1.22061	FALSE	1.22061	0.396993	0.396993	0.396993	-0.266559	FALSE	0.266559	-2.15985	FALSE
0.1681047	0.357594	0.022368905	0.676112	0.676112	0.676112	-0.641437	FALSE	0.641437	-1.5051	FALSE	1.5051	-0.191841	FALSE
0.1510375	0.1668005	0.001700005	-0.598603	FALSE	0.598603	-0.292216	FALSE	0.292216	0.346752	0.346752	0.346752	1.54653	1.54653
0.060010556	0	0.043277155	-1.13119	FALSE	1.13119	0.049168	0.049168	0.049168	0.050134	0.050134	0.050134	-2.06516	FALSE
0.1802034	0.342994	0.018214844	0.849703	0.849703	0.849703	-0.742671	FALSE	0.742671	-0.902735	FALSE	0.902735	0.330863	0.330863
0.139076083	0.161709667	0.002145723	0.591088	0.591088	0.591088	-0.577454	FALSE	0.577454	-0.021041	FALSE	0.021041	0.444658	0.444658
0.033935667	0.305421	0.009484691	-1.39163	FALSE	1.39163	-0.122598	FALSE	0.122598	0.709499	0.709499	0.709499	-1.62823	FALSE
0.0950401	0.046377	0.026132216	0.108427	0.108427	0.108427	-0.371658	FALSE	0.371658	-1.26387	FALSE	1.26387	-1.47686	FALSE
0.11543175	0.092252333	0.013404843	1.00418	1.00418	1.00418	-0.520879	FALSE	0.520879	-0.467846	FALSE	0.467846	1.41631	1.41631
0.207801111	0	0.043277155	-1.59646	FALSE	1.59646	0.024477	0.024477	0.024477	0.672462	0.672462	0.672462	0.188298	0.188298
0.087302222	0	0.043277155	0.407192	0.407192	0.407192	-0.188727	FALSE	0.188727	-0.847234	FALSE	0.847234	-1.21975	FALSE
0.222857231	0.21443825	4.10449E-05	1.32925	1.32925	1.32925	-0.776058	FALSE	0.776058	-0.541169	FALSE	0.541169	0.891785	0.891785

0.0410304	0.111862	0.009248596	-1.22652	FALSE	1.22652	-0.18336	FALSE	0.18336	0.072034	0.072034	0.072034	0.821683	0.821683
0.141361111	0	0.043277155	-0.965537	FALSE	0.965537	0.147504	0.147504	0.147504	-0.165861	FALSE	0.165861	-2.15985	FALSE
0.210735	0.314546	0.011345313	0.743208	0.743208	0.743208	-0.788941	FALSE	0.788941	-1.5708	FALSE	1.5708	0.140955	0.140955
0.267766083	0.328930667	0.014616579	-1.04455	FALSE	1.04455	-0.318947	FALSE	0.318947	0.067203	0.067203	0.067203	1.84863	1.84863
0.098121111	0	0.043277155	-1.06484	FALSE	1.06484	0.07665	0.07665	0.07665	-0.314009	FALSE	0.314009	-2.58432	FALSE
0.125135273	0.112453	0.009135273	1.06763	1.06763	1.06763	-0.761243	FALSE	0.761243	-0.823294	FALSE	0.823294	0.180569	0.180569
0.136464167	0.1505095	0.003308794	-0.171873	FALSE	0.171873	-0.385721	FALSE	0.385721	-0.021256	FALSE	0.021256	0.684593	0.684593
0.001669889	0.015029	0.037250012	-1.42684	FALSE	1.42684	0.187654	0.187654	0.187654	0.736874	0.736874	0.736874	-1.74471	FALSE
0.0774984	0.043156	0.02718397	0.300804	0.300804	0.300804	-0.27826	FALSE	0.27826	-1.43382	FALSE	1.43382	-1.1519	FALSE
0.133333	0.39549	0.035140644	0.685237	0.685237	0.685237	-0.757915	FALSE	0.757915	-0.378636	FALSE	0.378636	1.48867	1.48867
0.017355444	0.156199	0.002686621	-1.70413	FALSE	1.70413	-0.106817	FALSE	0.106817	0.911431	0.911431	0.911431	-0.577454	FALSE
0.111337778	0	0.043277155	0.736015	0.736015	0.736015	-0.248309	FALSE	0.248309	-1.25099	FALSE	1.25099	-1.2511	FALSE
0.2839391	0.855929	0.419771014	1.68674	1.68674	1.68674	-0.705742	FALSE	0.705742	-0.227267	FALSE	0.227267	1.13881	1.13881
0.0494685	0.2018245	3.85284E-05	-1.30091	FALSE	1.30091	0.074503	0.074503	0.074503	0.282125	0.282125	0.282125	0.512076	0.512076
0.085083556	0	0.043277155	-0.70703	FALSE	0.70703	0.211701	0.211701	0.211701	-0.508641	FALSE	0.508641	-2.10027	FALSE
0.239612909	0.298872	0.008251974	0.742993	0.742993	0.742993	-0.888457	FALSE	0.888457	-1.4204	FALSE	1.4204	0.197423	0.197423
0.14905125	0.17495925	0.001093782	-1.20558	FALSE	1.20558	-0.502736	FALSE	0.502736	0.907996	0.907996	0.907996	1.86666	1.86666
0.084606444	0	0.043277155	-1.2365	FALSE	1.2365	0.075899	0.075899	0.075899	-1.00086	FALSE	1.00086	-2.85196	FALSE
0.165976769	0.11586125	0.008495377	1.36017	1.36017	1.36017	-0.698442	FALSE	0.698442	-0.841651	FALSE	0.841651	0.357272	0.357272
0.269591333	0.359419333	0.022918239	-0.266451	FALSE	0.266451	-0.362211	FALSE	0.362211	1.06827	1.06827	1.06827	1.02748	1.02748
0.009101222	0	0.043277155	-1.66774	FALSE	1.66774	0.170155	0.170155	0.170155	-0.043586	FALSE	0.043586	-1.50671	FALSE
0.182159182	0.1101985	0.00957132	0.162104	0.162104	0.162104	-0.347933	FALSE	0.347933	-1.78518	FALSE	1.78518	-0.725709	FALSE
0.262148167	0.332795667	0.015566067	0.430165	0.430165	0.430165	-0.708425	FALSE	0.708425	0.679655	0.679655	0.679655	1.56328	1.56328
Ave	0.208031621												
Variance	0.06778853												
Sum Sw		3.45721501											

Med ave	Med neg ave	Sw	Cul 1	Cul 1 neg	Cul 1 abs	Cul 2	Cul 2 neg	Cul 2 abs	Cul 3	Cul 3 neg	Cul 3 abs	Cul 4	Cul 4 neg
-0.119179	-0.72125425	0.014145849	-1.25518	-1.25518	1.25518	0.063875	FALSE	0.063875	-0.052496	-0.052496	0.052496	-0.870851	-0.870851
0.1881586	-0.490766	0.012443833	0.484057	FALSE	0.484057	-0.712183	-0.712183	0.712183	-1.0059	-1.0059	1.0059	-0.470208	-0.470208
0.0989156	-0.685237	0.006875572	-0.280193	-0.280193	0.280193	-0.291143	-0.291143	0.291143	-0.039828	-0.039828	0.039828	0.540739	FALSE
-0.21139546	-0.93974525	0.113857198	-1.54009	-1.54009	1.54009	0.06409	FALSE	0.06409	0.163177	FALSE	0.163177	-0.865484	-0.865484
-0.03234917	-0.52732	0.005624689	0.336016	FALSE	0.336016	-0.630916	-0.630916	0.630916	-0.702414	-0.702414	0.702414	0.110574	FALSE
0.089218923	-0.3224468	0.078327848	0.565967	FALSE	0.565967	-0.511002	-0.511002	0.511002	-0.285238	-0.285238	0.285238	0.120987	FALSE
-0.19689492	-0.932741	0.109179406	-1.17123	-1.17123	1.17123	-0.104992	-0.104992	0.104992	0.957486	FALSE	0.957486	-0.868704	-0.868704
-0.08460342	-0.49653675	0.011189658	-0.233601	-0.233601	0.233601	-0.197208	-0.197208	0.197208	-0.80601	-0.80601	0.80601	-2.30982	-2.30982
0.322776222	-1.16307	0.314442886	0.84412	FALSE	0.84412	-0.880513	-0.880513	0.880513	-0.529038	-0.529038	0.529038	1.00386	FALSE
-0.12426615	-0.52504025	0.00597184	-1.22995	-1.22995	1.22995	-0.097477	-0.097477	0.097477	0.70338	FALSE	0.70338	0.365216	FALSE
-0.13325038	-0.7072874	0.01101859	-0.33344	-0.33344	0.33344	-0.006763	-0.006763	0.006763	-0.515726	-0.515726	0.515726	-1.28567	-1.28567
0.174878727	-0.43481733	0.028056449	1.05732	FALSE	1.05732	-0.614169	-0.614169	0.614169	-0.728608	-0.728608	0.728608	0.901125	FALSE

0.0233387	-0.780889	0.031887628	-0.797958	-0.797958	0.797958	-0.241438	-0.241438	0.241438	0.256575	FALSE	0.256575	0.74879	FALSE
-0.26108346	-0.8864975	0.080758029	-1.21922	-1.21922	1.21922	0.373268	FALSE	0.373268	-0.015029	-0.015029	0.015029	-1.90875	-1.90875
0.0530505	-0.4019315	0.040154721	0.721201	FALSE	0.721201	-0.691142	-0.691142	0.691142	-1.6541	-1.6541	1.6541	-0.255072	-0.255072
0.0963392	-0.533976	0.004670619	-0.211164	-0.211164	0.211164	-0.533439	-0.533439	0.533439	0.210198	FALSE	0.210198	1.19184	FALSE
-0.223419	-0.791329	0.035725185	-1.55802	-1.55802	1.55802	-0.164036	-0.164036	0.164036	0.100483	FALSE	0.100483	-1.54428	-1.54428
0.001040538	-0.3431014	0.067193208	0.57724	FALSE	0.57724	-0.674931	-0.674931	0.674931	-0.76221	-0.76221	0.76221	0.239935	FALSE
0.0326783	-0.6148135	0.000156139	0.485023	FALSE	0.485023	-0.547932	-0.547932	0.547932	-0.14686	-0.14686	0.14686	0.256682	FALSE
-0.20860438	-0.8781785	0.076099055	-1.4555	-1.4555	1.4555	-0.050993	-0.050993	0.050993	0.673536	FALSE	0.673536	-1.37101	-1.37101
-0.03051508	-0.52595125	0.00583187	-0.007944	-0.007944	0.007944	-0.0146	-0.0146	0.0146	-0.928607	-0.928607	0.928607	-1.91755	-1.91755
0.240447778	-1.00075	0.158748116	1.05378	FALSE	1.05378	-0.618356	-0.618356	0.618356	-0.458507	-0.458507	0.458507	1.36629	FALSE
-0.07669992	-0.51902725	0.006937337	-1.42029	-1.42029	1.42029	-0.309071	-0.309071	0.309071	0.655822	FALSE	0.655822	0.191089	FALSE
-0.04190854	-0.6860542	0.007011763	-0.226623	-0.226623	0.226623	-0.240901	-0.240901	0.240901	-0.529038	-0.529038	0.529038	-1.30048	-1.30048
0.171658	-0.306208	0.08768109	1.31937	FALSE	1.31937	-0.847985	-0.847985	0.847985	-0.559419	-0.559419	0.559419	0.726783	FALSE
0.0640469	-0.82061	0.047651429	-1.09909	-1.09909	1.09909	-0.282018	-0.282018	0.282018	0.136768	FALSE	0.136768	0.785613	FALSE
-0.16530808	-0.7628114	0.025758155	-1.22061	-1.22061	1.22061	0.396993	FALSE	0.396993	-0.266559	-0.266559	0.266559	-2.15985	-2.15985
0.06179075	-0.29755725	0.092879071	0.676112	FALSE	0.676112	-0.641437	-0.641437	0.641437	-1.5051	-1.5051	1.5051	-0.191841	-0.191841
0.0734943	-0.504883	0.009493565	-0.598603	-0.598603	0.598603	-0.292216	-0.292216	0.292216	0.346752	FALSE	0.346752	1.54653	FALSE
-0.22766431	-0.8079652	0.0422908	-1.13119	-1.13119	1.13119	0.049168	FALSE	0.049168	0.050134	FALSE	0.050134	-2.06516	-2.06516
0.05126125	-0.40423925	0.039235163	0.849703	FALSE	0.849703	-0.742671	-0.742671	0.742671	-0.902735	-0.902735	0.902735	0.330863	FALSE
0.0629303	-0.3840035	0.04766119	0.591088	FALSE	0.591088	-0.577454	-0.577454	0.577454	-0.021041	-0.021041	0.021041	0.444658	FALSE
-0.26044785	-0.92281075	0.102715649	-1.39163	-1.39163	1.39163	-0.122598	-0.122598	0.122598	0.709499	FALSE	0.709499	-1.62823	-1.62823
-0.02193583	-0.494631	0.011596474	0.108427	FALSE	0.108427	-0.371658	-0.371658	0.371658	-1.26387	-1.26387	1.26387	-1.47686	-1.47686
0.0793342	-0.434996	0.027996628	1.00418	FALSE	1.00418	-0.520879	-0.520879	0.520879	-0.467846	-0.467846	0.467846	1.41631	FALSE
-0.08103492	-0.9587748	0.127061502	-1.59646	-1.59646	1.59646	0.024477	FALSE	0.024477	0.672462	FALSE	0.672462	0.188298	FALSE
-0.08929323	-0.5464504	0.003121181	0.407192	FALSE	0.407192	-0.188727	-0.188727	0.188727	-0.847234	-0.847234	0.847234	-1.21975	-1.21975
0.226599	-0.323885	0.077524895	1.32925	FALSE	1.32925	-0.776058	-0.776058	0.776058	-0.541169	-0.541169	0.541169	0.891785	FALSE
-0.04771867	-0.296546	0.093496472	-1.22652	-1.22652	1.22652	-0.18336	-0.18336	0.18336	0.072034	FALSE	0.072034	0.821683	FALSE
-0.10407469	-0.7794942	0.031391431	-0.965537	-0.965537	0.965537	0.147504	FALSE	0.147504	-0.165861	-0.165861	0.165861	-2.15985	-2.15985
0.139959727	-0.193415	0.167201605	0.743208	FALSE	0.743208	-0.788941	-0.788941	0.788941	-1.5708	-1.5708	1.5708	0.140955	FALSE
0.1556086	-0.461566	0.019811105	-1.04455	-1.04455	1.04455	-0.318947	-0.318947	0.318947	0.067203	FALSE	0.067203	1.84863	FALSE
-0.19738985	-0.8664496	0.06976554	-1.06484	-1.06484	1.06484	0.07665	FALSE	0.07665	-0.314009	-0.314009	0.314009	-2.58432	-2.58432
0.029600364	-0.50924933	0.008661763	1.06763	FALSE	1.06763	-0.761243	-0.761243	0.761243	-0.823294	-0.823294	0.823294	0.180569	FALSE
0.0497047	-0.622757	0.000417756	-0.171873	-0.171873	0.171873	-0.385721	-0.385721	0.385721	-0.021256	-0.021256	0.021256	0.684593	FALSE
-0.28235662	-0.92141625	0.101823739	-1.42684	-1.42684	1.42684	0.187654	FALSE	0.187654	0.736874	FALSE	0.736874	-1.74471	-1.74471
-0.04911425	-0.49167875	0.012241028	0.300804	FALSE	0.300804	-0.27826	-0.27826	0.27826	-1.43382	-1.43382	1.43382	-1.1519	-1.1519
0.014099167	-0.2288775	0.139457753	0.685237	FALSE	0.685237	-0.757915	-0.757915	0.757915	-0.378636	-0.378636	0.378636	1.48867	FALSE
-0.23145431	-0.79127625	0.035705247	-1.70413	-1.70413	1.70413	-0.106817	-0.106817	0.106817	0.911431	FALSE	0.911431	-0.577454	-0.577454
-0.06105092	-0.5595484	0.001829233	0.736015	FALSE	0.736015	-0.248309	-0.248309	0.248309	-1.25099	-1.25099	1.25099	-1.2511	-1.2511
0.1387095	-0.147638	0.206733837	1.68674	FALSE	1.68674	-0.705742	-0.705742	0.705742	-0.227267	-0.227267	0.227267	1.13881	FALSE
-0.08047033	-0.47160367	0.017086218	-1.30091	-1.30091	1.30091	0.074503	FALSE	0.074503	0.282125	FALSE	0.282125	0.512076	FALSE
-0.14500969	-0.683326	0.006562308	-0.70703	-0.70703	0.70703	0.211701	FALSE	0.211701	-0.508641	-0.508641	0.508641	-2.10027	-2.10027
0.173561273	-0.323778	0.077584492	0.742993	FALSE	0.742993	-0.888457	-0.888457	0.888457	-1.4204	-1.4204	1.4204	0.197423	FALSE
0.0221036	-1.02319	0.177133301	-1.20558	-1.20558	1.20558	-0.502736	-0.502736	0.502736	0.907996	FALSE	0.907996	1.86666	FALSE
-0.20290654	-0.8321402	0.052818277	-1.2365	-1.2365	1.2365	0.075899	FALSE	0.075899	-1.00086	-1.00086	1.00086	-2.85196	-2.85196
0.188250333	-0.767363	0.027239876	1.36017	FALSE	1.36017	-0.698442	-0.698442	0.698442	-0.841651	-0.841651	0.841651	0.357272	FALSE



Cul 4 abs	Cul 5	Cul 5 pos	Cul 5 abs	Culture abs av	Culture pos av	Culture Sw	Magn 1	Magn 1 pos	Magn abs 1	Magn 2	Magn 2 pos	Magn abs 2	Magn 3
0.870851	0.303166	0.303166	0.303166	0.214209364	0.1835205	0.139783087	-0.696939	FALSE	0.696939	-1.81213	FALSE	1.81213	-1.47515
0.470208	-2.18432	FALSE	2.18432	0.053784111	0.484057	0.005378648	0.125389	0.125389	0.125389	0.356413	0.356413	0.356413	-0.38089
0.540739	0.837786	0.837786	0.837786	0.401433455	0.6892625	0.017388704	0.029093	0.029093	0.029093	0.087922	0.087922	0.087922	1.16446
0.865484	-0.765215	FALSE	0.765215	0.201990091	0.1136335	0.196925391	-0.865269	FALSE	0.865269	-1.24487	FALSE	1.24487	-2.06924
0.110574	-1.8541	FALSE	1.8541	0.0667738	0.223295	0.111623655	0.050349	0.050349	0.050349	0.145679	0.145679	0.145679	-1.08062
0.120987	0.826085	0.826085	0.826085	0.309743909	0.504346333	0.002814295	0.073967	0.073967	0.073967	0.26409	0.26409	0.26409	0.873535
0.868704	0.578098	0.578098	0.578098	0.525271091	0.767792	0.044266365	-0.983467	FALSE	0.983467	-0.233601	FALSE	0.233601	-0.683412
2.30982	-1.21342	FALSE	1.21342	0.025955667	0	0.310690596	-0.082984	FALSE	0.082984	-0.558238	FALSE	0.558238	-1.57058
1.00386	0.153838	0.153838	0.153838	0.392474	0.667272667	0.012072824	-0.108642	FALSE	0.108642	0.535586	0.535586	0.535586	0.777454
0.365216	0.76221	0.76221	0.76221	0.560197333	0.610268667	0.002795491	-1.05765	FALSE	1.05765	0.024691	0.024691	0.024691	0.832956
1.28567	-1.64058	FALSE	1.64058	0.037048889	0	0.310690596	-0.261513	FALSE	0.261513	-1.04144	FALSE	1.04144	-1.7898
0.901125	0.035212	0.035212	0.035212	0.351484636	0.664552333	0.011482423	-0.00569	FALSE	0.00569	0.321953	0.321953	0.321953	0.412989
0.74879	0.372839	0.372839	0.372839	0.4110475	0.459401333	0.009603007	-0.823079	FALSE	0.823079	-0.033709	FALSE	0.033709	1.42501
1.90875	-0.078475	FALSE	0.078475	0.2339024	0.373268	0.033903218	-0.373268	FALSE	0.373268	-1.54052	FALSE	1.54052	-1.45883
0.255072	-2.50692	FALSE	2.50692	0.080133444	0.721201	0.026831991	0.127858	0.127858	0.127858	0.608157	0.608157	0.608157	-0.249812
1.19184	0.714867	0.714867	0.714867	0.54682325	0.705635	0.021974723	-0.084165	FALSE	0.084165	-0.01299	FALSE	0.01299	0.97595
1.54428	-0.21578	FALSE	0.21578	0.1859469	0.100483	0.208769731	-0.687062	FALSE	0.687062	-1.75663	FALSE	1.75663	-1.9971
0.239935	-2.19087	FALSE	2.19087	0.1297045	0.4085875	0.022144048	0.184433	0.184433	0.184433	-0.156951	FALSE	0.156951	-0.93741
0.256682	1.18701	1.18701	1.18701	0.437827182	0.642905	0.007311744	0.051637	0.051637	0.051637	0.27622	0.27622	0.27622	0.916369
1.37101	0.711002	0.711002	0.711002	0.509919455	0.692269	0.018190655	-0.941705	FALSE	0.941705	-0.43929	FALSE	0.43929	-1.35996
1.91755	-1.57134	FALSE	1.57134	0.000882667	0	0.310690596	0.016103	0.016103	0.016103	-0.566612	FALSE	0.566612	-1.30317
1.36629	0.135373	0.135373	0.135373	0.505342636	0.851814333	0.086681999	-0.19796	FALSE	0.19796	0.508641	0.508641	0.508641	0.781533
0.191089	1.05593	1.05593	1.05593	0.59406775	0.634280333	0.00591116	-0.971871	FALSE	0.971871	0.245088	0.245088	0.245088	0.170477
1.30048	-1.87053	FALSE	1.87053	0.025180333	0	0.310690596	-0.035212	FALSE	0.035212	-0.971549	FALSE	0.971549	-1.5621
0.726783	-0.267632	FALSE	0.267632	0.3499719	1.0230765	0.216858082	-0.149436	FALSE	0.149436	0.41009	0.41009	0.41009	0.692215
0.785613	0.49608	0.49608	0.49608	0.446206083	0.472820333	0.007153088	-0.876756	FALSE	0.876756	0.045733	0.045733	0.045733	1.1913
2.15985	-0.84047	FALSE	0.84047	0.2411589	0.396993	0.025729207	-0.328502	FALSE	0.328502	-1.365	FALSE	1.365	-1.9037
0.191841	-2.57767	FALSE	2.57767	0.075123556	0.676112	0.014093426	0.001825	0.001825	0.001825	0.588297	0.588297	0.588297	-0.203757
1.54653	0.832848	0.832848	0.832848	0.731416083	0.90871	0.123421341	-0.048846	FALSE	0.048846	0.104455	0.104455	0.104455	1.16393
2.06516	0.226086	0.226086	0.226086	0.175612833	0.108462667	0.201541375	-0.601072	FALSE	0.601072	-1.71368	FALSE	1.71368	-1.75512
0.330863	-2.38368	FALSE	2.38368	0.1842292	0.590283	0.001081537	0.141921	0.141921	0.141921	-0.262587	FALSE	0.262587	-0.359205
0.444658	1.05378	1.05378	1.05378	0.462400182	0.696508667	0.01935226	-0.055394	FALSE	0.055394	0.392592	0.392592	0.392592	0.985183
1.62823	0.845194	0.845194	0.845194	0.550519	0.7773465	0.048378106	-0.9358	FALSE	0.9358	-0.352871	FALSE	0.352871	-1.91186
1.47686	-1.96758	FALSE	1.96758	0.012047444	0.108427	0.201573401	-0.082984	FALSE	0.082984	-0.722381	FALSE	0.722381	-1.26935
1.41631	0.273322	0.273322	0.273322	0.552097818	0.897937333	0.115968219	-0.217498	FALSE	0.217498	0.514116	0.514116	0.514116	1.06613
0.188298	1.19001	1.19001	1.19001	0.601707769	0.51881175	0.001488765	-0.931828	FALSE	0.931828	0.205475	0.205475	0.205475	-0.190982
1.21975	-1.91905	FALSE	1.91905	0.045243556	0.407192	0.022561321	-0.099087	FALSE	0.099087	-1.04176	FALSE	1.04176	-1.67719
0.891785	-0.5825	FALSE	0.5825	0.4004605	1.1105175	0.305943101	-0.148362	FALSE	0.148362	0.052388	0.052388	0.052388	0.94353

0.821683	0.537519	0.537519	0.537519	0.460019	0.477078667	0.006450917	-0.754051	FALSE	0.754051	0.164895	0.164895	0.164895	1.08867
2.15985	-1.20054	FALSE	1.20054	0.1408049	0.147504	0.168011669	-0.223617	FALSE	0.223617	-1.51154	FALSE	1.51154	-1.80526
0.140955	-2.45797	FALSE	2.45797	0.1166073	0.4420815	0.013297495	0.06044	0.06044	0.06044	0.314438	0.314438	0.314438	0.018357
1.84863	0.501233	0.501233	0.501233	0.691312333	0.805688667	0.061649117	0.116586	0.116586	0.116586	0.133977	0.133977	0.133977	1.43843
2.58432	0.521201	0.521201	0.521201	0.259853909	0.2989255	0.066807136	-0.646912	FALSE	0.646912	-1.68352	FALSE	1.68352	-1.64305
0.180569	-2.23929	FALSE	2.23929	0.1609337	0.6240995	0.004449322	0.120129	0.120129	0.120129	-0.348899	FALSE	0.348899	-0.23446
0.684593	0.992161	0.992161	0.992161	0.472921364	0.838377	0.078950174	0.046269	0.046269	0.046269	0.157702	0.157702	0.157702	1.09672
1.74471	0.798173	0.798173	0.798173	0.549578583	0.574233667	0.000283498	-0.982821	FALSE	0.982821	-0.260869	FALSE	0.260869	-2.12571
1.1519	-1.98486	FALSE	1.98486	0.033422667	0.300804	0.06583959	-0.149973	FALSE	0.149973	-0.691249	FALSE	0.691249	-0.983682
1.48867	0.228448	0.228448	0.228448	0.530599182	0.800785	0.059238076	-0.335694	FALSE	0.335694	0.277616	0.277616	0.277616	0.950508
0.577454	1.47235	1.47235	1.47235	0.805043	1.1918905	0.402582935	-0.907351	FALSE	0.907351	0.235533	0.235533	0.235533	-0.861941
1.2511	-2.01095	FALSE	2.01095	0.081779444	0.736015	0.031904653	-0.027053	FALSE	0.027053	-0.850776	FALSE	0.850776	-1.5008
1.13881	-0.608265	FALSE	0.608265	0.510317	1.412775	0.731672781	-0.364465	FALSE	0.364465	0.201932	0.201932	0.201932	0.908318
0.512076	0.631131	0.631131	0.631131	0.446185769	0.37495875	0.033283447	-0.806225	FALSE	0.806225	0.172088	0.172088	0.172088	1.71637
2.10027	-1.67096	FALSE	1.67096	0.1342133	0.211701	0.119505216	-0.059903	FALSE	0.059903	-1.06806	FALSE	1.06806	-1.88137
0.197423	-2.07525	FALSE	2.07525	0.1335262	0.470208	0.007601794	-0.218894	FALSE	0.218894	0.565001	0.565001	0.565001	-0.031777
1.86666	0.609875	0.609875	0.609875	0.94659775	1.128177	0.325790648	0.117874	0.117874	0.117874	-0.12453	FALSE	0.12453	-0.056039
2.85196	0.113365	0.113365	0.113365	0.164026545	0.094632	0.214150765	-0.420289	FALSE	0.420289	-1.61052	FALSE	1.61052	-0.615672
0.357272	-1.94825	FALSE	1.94825	0.2431986	0.858721	0.090796596	-0.084702	FALSE	0.084702	-0.237681	FALSE	0.237681	-0.410734
1.02748	1.06001	1.06001	1.06001	0.81114425	1.05192	0.244553725	-0.079549	FALSE	0.079549	0.081159	0.081159	0.081159	-0.1022
1.50671	0.72528	0.72528	0.72528	0.395822273	0.4477175	0.012029431	-0.792376	FALSE	0.792376	-0.640685	FALSE	0.640685	-0.710465
0.725709	-2.02544	FALSE	2.02544	0.018011556	0.162104	0.156255975	-0.063553	FALSE	0.063553	-0.512935	FALSE	0.512935	-0.561888
1.56328	0.609016	0.609016	0.609016	0.748834833	0.820529	0.069238836	-0.345786	FALSE	0.345786	0.470745	0.470745	0.470745	-0.072356

0.557396265  
0.327022471

Sum Sw 5.454128518

Cul 4 abs	Cul 5	Cul 5 neg	Cul 5 abs	Culture	Culture botton Sw	Magn 1	Magn 1 neg	Magn 1 abs	Magn 2	Magn 2 neg	Magn 2 abs	Magn 3	
0.870851	0.303166	FALSE	0.303166	0.096901364	-0.72617567	0.038545436	-0.696939	-0.696939	0.696939	-1.81213	-1.81213	1.81213	-1.47515
0.470208	-2.18432	-2.18432	2.18432	-0.29911954	-1.09315275	0.029120456	0.125389	FALSE	0.125389	0.356413	FALSE	0.356413	-0.38089
0.540739	0.837786	FALSE	0.837786	0.246024727	-0.20372133	0.516650797	0.029093	FALSE	0.029093	0.087922	FALSE	0.087922	1.16446
0.865484	-0.765215	-0.765215	0.765215	0.033084091	-1.05692967	0.018069834	-0.865269	-0.865269	0.865269	-1.24487	-1.24487	1.24487	-2.06924
0.110574	-1.8541	-1.8541	1.8541	-0.21918883	-1.06247667	0.019591904	0.050349	FALSE	0.050349	0.145679	FALSE	0.145679	-1.08062
0.120987	0.826085	FALSE	0.826085	0.151261	-0.39812	0.274980239	0.073967	FALSE	0.073967	0.26409	FALSE	0.26409	0.873535
0.868704	0.578098	FALSE	0.578098	0.297154727	-0.71497533	0.043068804	-0.983467	-0.983467	0.983467	-0.233601	-0.233601	0.233601	-0.683412
2.30982	-1.21342	-1.21342	1.21342	-0.33021977	-0.9520118	0.000870617	-0.082984	-0.082984	0.082984	-0.558238	-0.558238	0.558238	-1.57058
1.00386	0.153838	FALSE	0.153838	0.159087727	-0.7047755	0.047406389	-0.108642	-0.108642	0.108642	0.535586	FALSE	0.535586	0.777454
0.365216	0.76221	FALSE	0.76221	0.4794085	-0.6637135	0.066973342	-1.05765	-1.05765	1.05765	0.024691	FALSE	0.024691	0.832956
1.28567	-1.64058	-1.64058	1.64058	-0.23963838	-0.7564358	0.027579173	-0.261513	-0.261513	0.261513	-1.04144	-1.04144	1.04144	-1.7898
0.901125	0.035212	FALSE	0.035212	0.144292455	-0.6713885	0.063059789	-0.00569	-0.00569	0.00569	0.321953	FALSE	0.321953	0.412989

0.74879	0.372839	FALSE	0.372839	0.3312928	-0.519698	0.162253948	-0.823079	-0.823079	0.823079	-0.033709	-0.033709	0.033709	1.42501
1.90875	-0.078475	-0.078475	0.078475	-0.0030415	-0.8053685	0.013721096	-0.373268	-0.373268	0.373268	-1.54052	-1.54052	1.54052	-1.45883
0.255072	-2.50692	-2.50692	2.50692	-0.33738715	-1.2768085	0.125530557	0.127858	FALSE	0.127858	0.608157	FALSE	0.608157	-0.249812
1.19184	0.714867	FALSE	0.714867	0.3911535	-0.3723015	0.302724532	-0.084165	-0.084165	0.084165	-0.01299	-0.01299	0.01299	0.97595
1.54428	-0.21578	-0.21578	0.21578	-0.01375917	-0.870529	0.002701565	-0.687062	-0.687062	0.687062	-1.75663	-1.75663	1.75663	-1.9971
0.239935	-2.19087	-2.19087	2.19087	-0.21424175	-1.209337	0.082272262	0.184433	FALSE	0.184433	-0.156951	-0.156951	0.156951	-0.93741
0.256682	1.18701	FALSE	1.18701	0.243419545	-0.347396	0.330751032	0.051637	FALSE	0.051637	0.27622	FALSE	0.27622	0.916369
1.37101	0.711002	FALSE	0.711002	0.254779364	-0.95916767	0.001344108	-0.941705	-0.941705	0.941705	-0.43929	-0.43929	0.43929	-1.35996
1.91755	-1.57134	-1.57134	1.57134	-0.34031946	-0.8880082	0.001190069	0.016103	FALSE	0.016103	-0.566612	-0.566612	0.566612	-1.30317
1.36629	0.135373	FALSE	0.135373	0.270931182	-0.5384315	0.147512901	-0.19796	-0.19796	0.19796	0.508641	FALSE	0.508641	0.781533
0.191089	1.05593	FALSE	1.05593	0.4916901	-0.8646805	0.00334374	-0.971871	-0.971871	0.971871	0.245088	FALSE	0.245088	0.170477
1.30048	-1.87053	-1.87053	1.87053	-0.28571738	-0.8335144	0.007919431	-0.035212	-0.035212	0.035212	-0.971549	-0.971549	0.971549	-1.5621
0.726783	-0.267632	-0.267632	0.267632	0.091491667	-0.55834533	0.132612687	-0.149436	-0.149436	0.149436	0.41009	FALSE	0.41009	0.692215
0.785613	0.49608	FALSE	0.49608	0.3653994	-0.690554	0.053801537	-0.876756	-0.876756	0.876756	0.045733	FALSE	0.045733	1.1913
2.15985	-0.84047	-0.84047	0.84047	-0.10435692	-1.12187225	0.039747068	-0.328502	-0.328502	0.328502	-1.365	-1.365	1.365	-1.9037
0.191841	-2.57767	-2.57767	2.57767	-0.32614892	-1.229012	0.093946184	0.001825	FALSE	0.001825	0.588297	FALSE	0.588297	-0.203757
1.54653	0.832848	FALSE	0.832848	0.5758647	-0.4454095	0.227620672	-0.048846	-0.048846	0.048846	0.104455	FALSE	0.104455	1.16393
2.06516	0.226086	FALSE	0.226086	-0.0283194	-1.598175	0.456529162	-0.601072	-0.601072	0.601072	-1.71368	-1.71368	1.71368	-1.75512
0.330863	-2.38368	-2.38368	2.38368	-0.20980475	-1.34302867	0.176839664	0.141921	FALSE	0.141921	-0.262587	-0.262587	0.262587	-0.359205
0.444658	1.05378	FALSE	1.05378	0.271769909	-0.2992475	0.388450637	-0.055394	-0.055394	0.055394	0.392592	FALSE	0.392592	0.985183
1.62823	0.845194	FALSE	0.845194	0.250017091	-1.047486	0.015620105	-0.9358	-0.9358	0.9358	-0.352871	-0.352871	0.352871	-1.91186
1.47686	-1.96758	-1.96758	1.96758	-0.38242623	-1.269992	0.12074681	-0.082984	-0.082984	0.082984	-0.722381	-0.722381	0.722381	-1.26935
1.41631	0.273322	FALSE	0.273322	0.308610818	-0.4943625	0.183306499	-0.217498	-0.217498	0.217498	0.514116	FALSE	0.514116	1.06613
0.188298	1.19001	FALSE	1.19001	0.638550444	-1.59646	0.454214557	-0.931828	-0.931828	0.931828	0.205475	FALSE	0.205475	-0.190982
1.21975	-1.91905	-1.91905	1.91905	-0.289813	-1.04369025	0.014685724	-0.099087	-0.099087	0.099087	-1.04176	-1.04176	1.04176	-1.67719
0.891785	-0.5825	-0.5825	0.5825	0.101091083	-0.63324233	0.083673227	-0.148362	-0.148362	0.148362	0.052388	FALSE	0.052388	0.94353
0.821683	0.537519	FALSE	0.537519	0.3905632	-0.70494	0.047334783	-0.754051	-0.754051	0.754051	0.164895	FALSE	0.164895	1.08867
2.15985	-1.20054	-1.20054	1.20054	-0.18880883	-1.122947	0.040176762	-0.223617	-0.223617	0.223617	-1.51154	-1.51154	1.51154	-1.80526
0.140955	-2.45797	-2.45797	2.45797	-0.31604942	-1.60590367	0.467032942	0.06044	FALSE	0.06044	0.314438	FALSE	0.314438	0.018357
1.84863	0.501233	FALSE	0.501233	0.5559735	-0.6817485	0.057963973	0.116586	FALSE	0.116586	0.133977	FALSE	0.133977	1.43843
2.58432	0.521201	FALSE	0.521201	-0.05798064	-1.32105633	0.158842701	-0.646912	-0.646912	0.646912	-1.68352	-1.68352	1.68352	-1.64305
0.180569	-2.23929	-2.23929	2.23929	-0.19958825	-1.274609	0.123976817	0.120129	FALSE	0.120129	-0.348899	-0.348899	0.348899	-0.23446
0.684593	0.992161	FALSE	0.992161	0.283491273	-0.19295	0.532251348	0.046269	FALSE	0.046269	0.157702	FALSE	0.157702	1.09672
1.74471	0.798173	FALSE	0.798173	0.3127532	-1.585775	0.43992632	-0.982821	-0.982821	0.982821	-0.260869	-0.260869	0.260869	-2.12571
1.1519	-1.98486	-1.98486	1.98486	-0.34984892	-1.212221	0.08392865	-0.149973	-0.149973	0.149973	-0.691249	-0.691249	0.691249	-0.983682
1.48867	0.228448	FALSE	0.228448	0.271174727	-0.5682755	0.125478951	-0.335694	-0.335694	0.335694	0.277616	FALSE	0.277616	0.950508
0.577454	1.47235	FALSE	1.47235	0.526129182	-0.79613367	0.015969861	-0.907351	-0.907351	0.907351	0.235533	FALSE	0.235533	-0.861941
1.2511	-2.01095	-2.01095	2.01095	-0.30964108	-1.19033725	0.071733802	-0.027053	-0.027053	0.027053	-0.850776	-0.850776	0.850776	-1.5008
1.13881	-0.608265	-0.608265	0.608265	0.201923833	-0.513758	0.167074586	-0.364465	-0.364465	0.364465	0.201932	FALSE	0.201932	0.908318
0.512076	0.631131	FALSE	0.631131	0.477842222	-1.30091	0.143189903	-0.806225	-0.806225	0.806225	0.172088	FALSE	0.172088	0.71637
2.10027	-1.67096	-1.67096	1.67096	-0.26245325	-1.24672525	0.105118393	-0.059903	-0.059903	0.059903	-1.06806	-1.06806	1.06806	-1.88137
0.197423	-2.07525	-2.07525	2.07525	-0.27052233	-1.461369	0.290373783	-0.218894	-0.218894	0.218894	0.565001	FALSE	0.565001	-0.031777
1.86666	0.609875	FALSE	0.609875	0.7471906	-0.854158	0.004671392	0.117874	FALSE	0.117874	-0.12453	-0.12453	0.12453	-0.056039
2.85196	0.113365	FALSE	0.113365	-0.20343564	-1.69644	0.598974483	-0.420289	-0.420289	0.420289	-1.61052	-1.61052	1.61052	-0.615672
0.357272	-1.94825	-1.94825	1.94825	-0.11780242	-1.162781	0.057732276	-0.084702	-0.084702	0.084702	-0.237681	-0.237681	0.237681	-0.410734

1.02748	1.06001	FALSE	1.06001	0.621576	-0.314331	0.369876323	-0.079549	-0.079549	0.079549	0.081159	FALSE	0.081159	-0.1022
1.50671	0.72528	FALSE	0.72528	0.173483091	-1.07267867	0.022551955	-0.792376	-0.792376	0.792376	-0.640685	-0.640685	0.640685	-0.710465
0.725709	-2.02544	-2.02544	2.02544	-0.36324292	-1.2210655	0.089138024	-0.063553	-0.063553	0.063553	-0.512935	-0.512935	0.512935	-0.561888
1.56328	0.609016	FALSE	0.609016	0.5425642	-0.708425	0.045830496	-0.345786	-0.345786	0.345786	0.470745	FALSE	0.470745	-0.072356
				Ave	-0.92250558								
				Variance	0.149431717								
						Sum Sw	7.621017577						



Magn 3 pos	Magn abs 3	Magn 4	Magn 4 pos	Magn abs 4	Magn 5	Magn 5 pos	Magn abs 5
FALSE	1.47515	1.46827	1.46827	1.46827	-0.86849	FALSE	0.86849
FALSE	0.38089	-2.73376	FALSE	2.73376	2.56779	2.56779	2.56779
1.16446	1.16446	0.117552	0.117552	0.117552	-2.27525	FALSE	2.27525
FALSE	2.06924	2.12399	2.12399	2.12399	-1.80966	FALSE	1.80966
FALSE	1.08062	-2.61256	FALSE	2.61256	2.38797	2.38797	2.38797
0.873535	0.873535	-0.805044	FALSE	0.805044	-0.819214	FALSE	0.819214
FALSE	0.683412	2.63338	2.63338	2.63338	-2.79753	FALSE	2.79753
FALSE	1.57058	-1.84058	FALSE	1.84058	1.49844	1.49844	1.49844
0.777454	0.777454	-1.80569	FALSE	1.80569	1.18422	1.18422	1.18422
0.832956	0.832956	1.66022	1.66022	1.66022	-3.24605	FALSE	3.24605
FALSE	1.7898	-1.68094	FALSE	1.68094	0.400106	0.400106	0.400106
0.412989	0.412989	-2.30896	FALSE	2.30896	2.77831	2.77831	2.77831
1.42501	1.42501	1.53086	1.53086	1.53086	-2.84143	FALSE	2.84143
FALSE	1.45883	1.14278	1.14278	1.14278	-0.250885	FALSE	0.250885
FALSE	0.249812	-2.6249	FALSE	2.6249	2.69876	2.69876	2.69876
0.97595	0.97595	0.328824	0.328824	0.328824	-2.37337	FALSE	2.37337
FALSE	1.9971	1.79549	1.79549	1.79549	-1.52496	FALSE	1.52496
FALSE	0.93741	-2.45088	FALSE	2.45088	2.37606	2.37606	2.37606
0.916369	0.916369	-0.30424	FALSE	0.30424	-2.21535	FALSE	2.21535
FALSE	1.35996	2.50606	2.50606	2.50606	-2.40107	FALSE	2.40107
FALSE	1.30317	-1.87472	FALSE	1.87472	2.07246	2.07246	2.07246
0.781533	0.781533	-1.38626	FALSE	1.38626	0.247664	0.247664	0.247664
0.170477	0.170477	1.70091	1.70091	1.70091	-3.06301	FALSE	3.06301
FALSE	1.5621	-2.06527	FALSE	2.06527	1.16683	1.16683	1.16683
0.692215	0.692215	-1.76318	FALSE	1.76318	2.15147	2.15147	2.15147
1.1913	1.1913	1.64841	1.64841	1.64841	-3.39914	FALSE	3.39914
FALSE	1.9037	-0.099409	FALSE	0.099409	-0.011165	FALSE	0.011165
FALSE	0.203757	-2.69608	FALSE	2.69608	2.72893	2.72893	2.72893
1.16393	1.16393	0.69404	0.69404	0.69404	-2.42748	FALSE	2.42748
FALSE	1.75512	1.34224	1.34224	1.34224	-1.10424	FALSE	1.10424
FALSE	0.359205	-2.4847	FALSE	2.4847	2.80568	2.80568	2.80568
0.985183	0.985183	0.147396	0.147396	0.147396	-2.19753	FALSE	2.19753
FALSE	1.91186	2.1562	2.1562	2.1562	-2.51841	FALSE	2.51841
FALSE	1.26935	-2.11336	FALSE	2.11336	2.06967	2.06967	2.06967
1.06613	1.06613	-0.780245	FALSE	0.780245	-0.379817	FALSE	0.379817
FALSE	0.190982	1.79291	1.79291	1.79291	-3.20526	FALSE	3.20526
FALSE	1.67719	-2.12217	FALSE	2.12217	1.3416	1.3416	1.3416
0.94353	0.94353	-1.32378	FALSE	1.32378	2.0264	2.0264	2.0264

Magn abs ave	Magn pos ave	Sw
0.5101749	1.46827	0.144002302
0.808908909	1.016530667	0.005221938
0.344907917	0.34975675	0.546175535
0.7237239	2.12399	1.071631489
0.695572364	0.861332667	0.051738498
0.316985636	0.403864	0.469128621
0.8883607	2.63338	2.385747002
0.4578304	1.49844	0.167810134
0.6333685	0.83242	0.065727447
0.71760425	0.839289	0.062252569
0.1461831	0.400106	0.474290675
0.878787167	1.171084	0.006771702
0.880971727	1.477935	0.151430993
0.3801608	1.14278	0.002914526
0.913509909	1.144925	0.003150729
0.363498818	0.652387	0.190450762
0.6073532	1.79549	0.499419735
0.7312613	1.2802465	0.036654195
0.329945818	0.414742	0.454345623
0.8459885	2.50606	2.008643915
0.6233483	1.0442815	0.001981331
0.400956167	0.512612667	0.331984522
0.610108	0.705491667	0.146920408
0.3535702	1.16683	0.006089672
0.82589675	1.084591667	1.76566E-05
0.79442375	0.961814333	0.016123746
0.036500222	0	1.185471606
0.904864182	1.106350667	0.000308249
0.49467675	0.654141667	0.188922344
0.4627792	1.34224	0.064235054
0.8558961	1.4738005	0.148230277
0.385908917	0.508390333	0.336868007
0.74044	2.1562	1.139356322
0.6291994	2.06967	0.96211842
0.450748727	0.790123	0.089204155
0.629725727	0.9991925	0.008028366
0.4123887	1.3416	0.063911052
0.767943	1.007439333	0.006618524

ANOVA: pos

Ho: u(med) = u(cul) = u(magn)  
H1: means not all equal, a = 0.05

Critical value from F distribution:  
df1 = k-1 = 3-1 = 2  
df2 = N-k = 150 - 3 = 147

Reject Ho if F > 3.05762065

Table

Source of vari	Sum of square	Degrees of fre
Between	20.06306984	2
Within	26.78272089	147
Total	46.84579073	149

Conclusion: reject Ho: u(med) = u(cul) = u(magn)

Thus, there is a significant difference between

1.08867	1.08867	1.74847	1.74847	1.74847	-3.40719	FALSE	3.40719
FALSE	1.80526	-0.875467	FALSE	0.875467	0.328824	0.328824	0.328824
0.018357	0.018357	-2.17252	FALSE	2.17252	3.08695	3.08695	3.08695
1.43843	1.43843	1.03865	1.03865	1.03865	-2.42072	FALSE	2.42072
FALSE	1.64305	0.670959	0.670959	0.670959	-0.762961	FALSE	0.762961
FALSE	0.23446	-2.673	FALSE	2.673	2.7095	2.7095	2.7095
1.09672	1.09672	0.422651	0.422651	0.422651	-2.7504	FALSE	2.7504
FALSE	2.12571	2.21277	2.21277	2.21277	-2.23714	FALSE	2.23714
FALSE	0.983682	-2.29232	FALSE	2.29232	2.22426	2.22426	2.22426
0.950508	0.950508	-0.406762	FALSE	0.406762	-1.45368	FALSE	1.45368
FALSE	0.861941	2.00418	2.00418	2.00418	-2.8818	FALSE	2.8818
FALSE	1.5008	-1.94224	FALSE	1.94224	1.66258	1.66258	1.66258
0.908318	0.908318	-1.08996	FALSE	1.08996	1.53	1.53	1.53
0.71637	0.71637	1.64959	1.64959	1.64959	-3.23639	FALSE	3.23639
FALSE	1.88137	-1.74128	FALSE	1.74128	1.08223	1.08223	1.08223
FALSE	0.031777	-1.76189	FALSE	1.76189	2.56328	2.56328	2.56328
FALSE	0.056039	1.47235	1.47235	1.47235	-2.95008	FALSE	2.95008
FALSE	0.615672	0.011379	0.011379	0.011379	-0.437573	FALSE	0.437573
FALSE	0.410734	-2.70102	FALSE	2.70102	2.83016	2.83016	2.83016
FALSE	0.1022	0.66645	0.66645	0.66645	-2.65872	FALSE	2.65872
FALSE	0.710465	1.67224	1.67224	1.67224	-1.47923	FALSE	1.47923
FALSE	0.561888	-2.38626	FALSE	2.38626	2.5023	2.5023	2.5023
FALSE	0.072356	0.017177	0.017177	0.017177	-1.63381	FALSE	1.63381

0.813346333	1.000678333	0.007764309
0.1210089	0.328824	0.577553864
0.859972917	0.87004625	0.047850424
0.66247975	0.68191075	0.165553692
0.2659789	0.670959	0.174585792
0.8248629	1.4148145	0.106289597
0.423124	0.4308355	0.432908923
0.7621131	2.21277	1.263322842
0.6822753	2.22426	1.289283839
0.365460545	0.614062	0.225370137
0.693317273	1.1198565	0.000964901
0.5014793	1.66258	0.329230779
0.690434583	0.880083333	0.043559995
0.701697417	0.846016	0.058940986
0.3306593	1.08223	4.30815E-05
0.873067	1.5641405	0.225954631
0.4534924	0.795112	0.08624891
0.0454426	0.011379	1.160822322
0.8575182	2.83016	3.032356775
0.211125091	0.3738045	0.51120948
0.5809096	1.67224	0.340409647
0.7570453	2.5023	1.99800021
0.164504727	0.243961	0.713742202

Ave 1.088793647  
Variance 0.591962131

Sum Sw 17.87137736

Magn 3 neg	Magn 3 abs	Magn 4	Magn 4 neg	Magn 4 abs	Magn 5	Magn 5 neg	Magn 5 abs
-1.47515	1.47515	1.46827	FALSE	1.46827	-0.86849	-0.86849	0.86849
-0.38089	0.38089	-2.73376	-2.73376	2.73376	2.56779	FALSE	2.56779
FALSE	1.16446	0.117552	FALSE	0.117552	-2.27525	-2.27525	2.27525
-2.06924	2.06924	2.12399	FALSE	2.12399	-1.80966	-1.80966	1.80966
-1.08062	1.08062	-2.61256	-2.61256	2.61256	2.38797	FALSE	2.38797
FALSE	0.873535	-0.805044	-0.805044	0.805044	-0.819214	-0.819214	0.819214
-0.683412	0.683412	2.63338	FALSE	2.63338	-2.79753	-2.79753	2.79753
-1.57058	1.57058	-1.84058	-1.84058	1.84058	1.49844	FALSE	1.49844
FALSE	0.777454	-1.80569	-1.80569	1.80569	1.18422	FALSE	1.18422
FALSE	0.832956	1.66022	FALSE	1.66022	-3.24605	-3.24605	3.24605
-1.7898	1.7898	-1.68094	-1.68094	1.68094	0.400106	FALSE	0.400106
FALSE	0.412989	-2.30896	-2.30896	2.30896	2.77831	FALSE	2.77831

Magnetosome	Magn bottom	Sw
-0.04352425	-1.21317725	0.002936692
0.259922273	-1.557325	0.084074768
0.0493711	-2.27525	1.015825104
-0.00087675	-1.49725975	0.052849984
0.129497	-1.84659	0.335497538
0.065905364	-0.812129	0.207243009
0.211307	-1.1745025	0.008624095
-0.07412783	-1.0130955	0.064654762
0.3297472	-0.957166	0.096225595
0.2847334	-2.15185	0.782307511
-0.28753792	-1.19342325	0.005467901
0.4723234	-1.157325	0.012109573

ANOVA: neg  
Ho: u(med) = u(cul) = u(magn)  
H1: means not all equal, a = 0.05  
Critical value from F distribution:  
df1 = k-1 = 3-1 = 2  
df2 = N-k = 150 - 3 = 147  
Reject Ho if F > 3.05762065  
Table

FALSE	1.42501	1.53086	FALSE	1.53086	-2.84143	-2.84143	2.84143	0.35088	-1.23273933	0.00119918
-1.45883	1.45883	1.14278	FALSE	1.14278	-0.250885	-0.250885	0.250885	-0.04928392	-0.90587575	0.130677014
-0.249812	0.249812	-2.6249	-2.6249	2.6249	2.69876	FALSE	2.69876	0.351543636	-1.437356	0.028895748
FALSE	0.97595	0.328824	FALSE	0.328824	-2.37337	-2.37337	2.37337	0.027941182	-0.82350833	0.197011854
-1.9971	1.9971	1.79549	FALSE	1.79549	-1.52496	-1.52496	1.52496	-0.08338733	-1.491438	0.050207138
-0.93741	0.93741	-2.45088	-2.45088	2.45088	2.37606	FALSE	2.37606	0.115942667	-1.181747	0.007331042
FALSE	0.916369	-0.30424	-0.30424	0.30424	-2.21535	-2.21535	2.21535	-0.007525	-1.259795	5.7358E-05
-1.35996	1.35996	2.50606	FALSE	2.50606	-2.40107	-2.40107	2.40107	0.146125417	-1.28550625	0.000328978
-1.30317	1.30317	-1.87472	-1.87472	1.87472	2.07246	FALSE	2.07246	0.034710083	-1.24816733	0.000368685
FALSE	0.781533	-1.38626	-1.38626	1.38626	0.247664	FALSE	0.247664	0.1887376	-0.79211	0.225870649
FALSE	0.170477	1.70091	FALSE	1.70091	-3.06301	-3.06301	3.06301	0.2141811	-2.0174405	0.562607994
-1.5621	1.5621	-2.06527	-2.06527	2.06527	1.16683	FALSE	1.16683	-0.18583725	-1.15853275	0.011845222
FALSE	0.692215	-1.76318	-1.76318	1.76318	2.15147	FALSE	2.15147	0.4893806	-0.956308	0.096758639
FALSE	1.1913	1.64841	FALSE	1.64841	-3.39914	-3.39914	3.39914	0.3248502	-2.137948	0.757908653
-1.9037	1.9037	-0.099409	-0.099409	0.099409	-0.011165	-0.011165	0.011165	-0.23467477	-0.7415552	0.276479634
-0.203757	0.203757	-2.69608	-2.69608	2.69608	2.72893	FALSE	2.72893	0.339676545	-1.4499185	0.0333245
FALSE	1.16393	0.69404	FALSE	0.69404	-2.42748	-2.42748	2.42748	0.1546216	-1.238163	0.000852962
-1.75512	1.75512	1.34224	FALSE	1.34224	-1.10424	-1.10424	1.10424	-0.10729067	-1.293528	0.000684319
-0.359205	0.359205	-2.4847	-2.4847	2.4847	2.80568	FALSE	2.80568	0.22056575	-1.03549733	0.053764241
FALSE	0.985183	0.147396	FALSE	0.147396	-2.19753	-2.19753	2.19753	0.0908206	-1.126462	0.019854644
-1.91186	1.91186	2.1562	FALSE	2.1562	-2.51841	-2.51841	2.51841	0.038754917	-1.42973525	0.026362959
-1.26935	1.26935	-2.11336	-2.11336	2.11336	2.06967	FALSE	2.06967	0.009769417	-1.04701875	0.048554015
FALSE	1.06613	-0.780245	-0.780245	0.780245	-0.379817	-0.379817	0.379817	0.201629818	-0.45918667	0.653157887
-0.190982	0.190982	1.79291	FALSE	1.79291	-3.20526	-3.20526	3.20526	0.139305091	-1.44269	0.030737626
-1.67719	1.67719	-2.12217	-2.12217	2.12217	1.3416	FALSE	1.3416	-0.17156942	-1.23505175	0.001044373
FALSE	0.94353	-1.32378	-1.32378	1.32378	2.0264	FALSE	2.0264	0.4869218	-0.736071	0.282277041
FALSE	1.08867	1.74847	FALSE	1.74847	-3.40719	-3.40719	3.40719	0.3350931	-2.0806205	0.661378804
-1.80526	1.80526	-0.875467	-0.875467	0.875467	0.328824	FALSE	0.328824	-0.27591683	-1.103971	0.026698745
FALSE	0.018357	-2.17252	-2.17252	2.17252	3.08695	FALSE	3.08695	0.472741	-2.17252	0.819299225
FALSE	1.43843	1.03865	FALSE	1.03865	-2.42072	-2.42072	2.42072	0.291798	-2.42072	1.330219666
-1.64305	1.64305	0.670959	FALSE	0.670959	-0.762961	-0.762961	0.762961	-0.17505842	-1.18411075	0.006931854
-0.23446	0.23446	-2.673	-2.673	2.673	2.7095	FALSE	2.7095	0.190230833	-1.085453	0.033093252
FALSE	1.09672	0.422651	FALSE	0.422651	-2.7504	-2.7504	2.7504	0.0650015	-2.7504	2.199382409
-2.12571	2.12571	2.21277	FALSE	2.21277	-2.23714	-2.23714	2.23714	0.065386833	-1.401635	0.018027491
-0.983682	0.983682	-2.29232	-2.29232	2.29232	2.22426	FALSE	2.22426	0.0526035	-1.029306	0.056673757
FALSE	0.950508	-0.406762	-0.406762	0.406762	-1.45368	-1.45368	1.45368	0.084681818	-0.73204533	0.2865709
-0.861941	0.861941	2.00418	FALSE	2.00418	-2.8818	-2.8818	2.8818	0.149366909	-1.550364	0.080086449
-1.5008	1.5008	-1.94224	-1.94224	1.94224	1.66258	FALSE	1.66258	-0.07846692	-1.08021725	0.035025593
FALSE	0.908318	-1.08996	-1.08996	1.08996	1.53	FALSE	1.53	0.4555005	-0.7272125	0.291768512
FALSE	0.71637	1.64959	FALSE	1.64959	-3.23639	-3.23639	3.23639	0.2645931	-2.0213075	0.568424005
-1.88137	1.88137	-1.74128	-1.74128	1.74128	1.08223	FALSE	1.08223	-0.20552892	-1.18765325	0.006354522
-0.031777	0.031777	-1.76189	-1.76189	1.76189	2.56328	FALSE	2.56328	0.425617182	-0.67085367	0.355829955
-0.056039	0.056039	1.47235	FALSE	1.47235	-2.95008	-2.95008	2.95008	-0.00567292	-1.04354967	0.050094873
-0.615672	0.615672	0.011379	FALSE	0.011379	-0.437573	-0.437573	0.437573	-0.18505983	-0.7710135	0.246368293
-0.410734	0.410734	-2.70102	-2.70102	2.70102	2.83016	FALSE	2.83016	0.19963225	-0.85853425	0.16714545

Source of variance Sum of square Degrees of freedom  
Between 11.28362834 2  
Within 22.40378893 147  
Total 33.68741727 149

Conclusion: reject Ho:  $\mu(\text{med}) = \mu(\text{cul}) = \mu(\text{mar})$

Thus, there is a significant difference between

-0.1022	0.1022	0.66645	FALSE	0.66645	-2.65872	-2.65872	2.65872
-0.710465	0.710465	1.67224	FALSE	1.67224	-1.47923	-1.47923	1.47923
-0.561888	0.561888	-2.38626	-2.38626	2.38626	2.5023	FALSE	2.5023
-0.072356	0.072356	0.017177	FALSE	0.017177	-1.63381	-1.63381	1.63381

-0.10783209	-0.946823	0.102749422
0.108873	-0.905689	0.130812066
0.1339225	-0.881159	0.149157783
-0.03495782	-0.683984	0.340337483

Ave	-1.26736851
Variance	0.230333786

Sum Sw	11.74702311
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Pooled ave  
0.618073844

Mean squares F  
10.03153492 55.05921671  
0.18219538

ign),  $F > 3.057$

n the voltage measured on the medium, culture and purified magnetosomes.

Pooled ave  
-0.93073067

Mean squares F  
5.641814171 37.01814393  
0.152406727

ign),  $F > 3.057$

n the voltage measured on the medium, culture and purified magnetosomes.