Table S11. Five-Second Epoch Size Confusion Matrix Results

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| **Classifier** | **Feature Name** | **Classes Name** | **SVM** |
| **Predicted Class** |
| SVM | FFT | Actual Class | Sch | 2465 | 140 |
| Healthy | 131 | 3034 |
| ApEn | Actual Class | Sch | 2409 | 196 |
| Healthy | 1006 | 1942 |
| ApEn+ Band-pass | Actual Class | Sch | 2029 | 390 |
| Healthy | 460 | 2705 |
| Shannon Entropy | Actual Class | Sch | 2013 | 592 |
| Healthy | 261 | 2904 |
| Log Energy Entropy | Actual Class | Sch | 2582 | 23 |
| Healthy | 23 | 3142 |
| Kurtosis | Actual Class | Sch | 1852 | 753 |
| Healthy | 980 | 2185 |
| KNN | FFT | Actual Class | Sch | 2382 | 223 |
| Healthy | 217 | 2948 |
| ApEn | Actual Class | Sch | 2429 | 176 |
| Healthy | 1401 | 1547 |
| ApEn+ Band-pass | Actual Class | Sch | 1860 | 559 |
| Healthy | 361 | 2804 |
| Shannon Entropy | Actual Class | Sch | 2381 | 224 |
| Healthy | 395 | 2770 |
| Log Energy Entropy | Actual Class | Sch | 2573 | 32 |
| Healthy | 52 | 3113 |
| Kurtosis | Actual Class | Sch | 1894 | 711 |
| Healthy | 1101 | 2064 |
| QDA | FFT | Actual Class | Sch | 2450 | 155 |
| Healthy | 253 | 2912 |
| ApEn | Actual Class | Sch | 2521 | 84 |
| Healthy | 1397 | 1551 |
| ApEn+ Band-pass | Actual Class | Sch | 2186 | 233 |
| Healthy | 1056 | 2109 |
| Shannon Entropy | Actual Class | Sch | 2510 | 95 |
| Healthy | 1551 | 1614 |
| Log Energy Entropy | Actual Class | Sch | 2595 | 10 |
| Healthy | 123 | 3042 |
| Kurtosis | Actual Class | Sch | 2535 | 70 |
| Healthy | 2588 | 577 |
| EC | FFT | Actual Class | Sch | 2495 | 110 |
| Healthy | 174 | 2991 |
| ApEn | Actual Class | Sch | 2011 | 408 |
| Healthy | 532 | 2633 |
| ApEn+ Band-pass | Actual Class | Sch | 2388 | 217 |
| Healthy | 1018 | 1930 |
| Shannon Entropy | Actual Class | Sch | 2535 | 70 |
| Healthy | 120 | 304 |
| Log Energy Entropy | Actual Class | Sch | 2582 | 23 |
| Healthy | 45 | 3119 |
| Kurtosis | Actual Class | Sch | 2071 | 534 |
| Healthy | 1200 | 1965 |