EMG by Participant Comparison (normalized) CASE 1 (All sensors) 300 289.458 234.73 233.876 232.134 223.941 212.269 212.892 211.318 EMG (Mean) 139.669 122.7 100 74.2696 62.8665 56.2192 54.941 54.091 53.8587 53.1182 51.3561 49.691 48.3453 50 41.4175 37.6658 19.287<mark>9</mark> 19.521<mark>4</mark> 19.171<mark>4</mark> 17.286<mark>4</mark> 15.715<mark>9</mark> 16.00<mark>4</mark> 15.467<mark>3</mark> 15.216<mark>1</mark> 12.266<mark>5</mark> 12.465<mark>9</mark> 11.183<mark>5</mark> 11.848<mark>2</mark> .5710 9.5662<mark>2</mark> **1**0.370 .4252 .0699<mark>9</mark> task5 task8 task1 task2 task3 task4 task9 task10 task11 task12 CASE 2 (Both hands – Flexors)) 70 60 55.2881 EMG (Mean) 47.5804 43.427 43.0499 41.7665 41.1726 38.5937 39.7167 37.4103 37.2833 36.4905 36.3291 35.1092 34.0712 33.6811 : 33.7996 31.8909 31.1123 27.8827 21.2412 20 **1**6.894 6.9989 **1**6.7392 **1**6.6211 13.629 3.512 **1**3.437 12.5387 11.57<u></u>57294<mark>7</mark> 12.647 12.11<u>5</u>4485 **1**0.03449637 10.6177 9.4259<mark>6</mark> .5570<mark>7</mark> 69912 9.3032 .836 <mark>5</mark>.9094 task2 task3 task4 task5 task9 task10 task11 task12 CASE 3 (Both hands – Extensors) 1195.62 1200 1148.33 1000 925.666 920.821 916.471 887.405 842.332 835.673 833.687 EMG (Mean) 548.441 473.601 241.521 221.951 194.897 180.049 181.847 172.566 170.995 170.836 200 -167.742 155.272 159.14 137.391 129.222 36.974<mark>2</mark> 39.566<mark>9</mark> 27.183<mark>3 1</mark>8.030 <mark>2</mark>6.627 34.281<mark>8</mark> 2<mark>4.966</mark>6 <mark>2</mark>4.387 28.539<mark>9</mark> 24.889<mark>7</mark> 23.365<mark>2</mark> 23.453 16.394<mark>6 1</mark>4.692 16.0513 24.899<mark>6</mark> 15.06<mark>6</mark> 11.256<mark>7</mark> task12 task3 task4 task1 task11 CASE 4 (Left hand – Extensors) 2258.42 2202.9 2000 1740 1739.36 1670.48 1602.49 1560.33 1524.21 1491.99 EMG (Mean) 1000 982.998 776.915 394.793 146.641 118.812 23.176<mark>1 29</mark>.220<mark>4</mark> 106.297 12.649<mark>1 2</mark>5.199<mark>9</mark> 120.79 120.144 102.761 14.904<mark>5 7.</mark>3132<mark>1</mark> 79.2815 14.948<mark>2</mark> 8.38 + 0.25171 + 4.40508 + 24.895522.423<mark>6 2</mark>6.477<mark>6</mark> 9.0536<mark>4 2</mark>8.264<mark>4</mark> 26.20<mark>5</mark> 9.3905<mark>7 1</mark>9.981**7** 17.130<mark>9 1</mark>8.062<mark>8</mark> 6.8038<mark>3</mark> task3 task4 task9 task10 task11 task12 CASE 5 (Right Hand – Extensor) 349.648 350 -301.154 297.262 P3 297.73 300 269.004 250 239.955 238.835 236.445 233.827 EMG (Mean) 150 223.179 215.519 201.727 179.163 170.287 143.169 132.822 124.339 113.883 111.969 104.327 92.9406 93.7697 100 88.2495 70.080<mark>2</mark> 68.8589 46.139<mark>9</mark> 47.743<mark>4</mark> 42.325<mark>4</mark> 50 37.235<mark>8</mark> 37.150<mark>1</mark> 33.903<mark>7</mark> 34.874<mark>9</mark> 23.328<mark>2</mark> 25.909<mark>9</mark> <mark>2</mark>4.033 <mark>2</mark>4.733 : 22.71<mark>2</mark> <mark>2</mark>2.298<mark>2</mark> <mark>2</mark>1.427 <mark>2</mark>2.011 **1**9.34**5 1**7.998 <mark>1</mark>7.975 17.612<mark>9</mark> 15.95<mark>1</mark> **1**6.543 task2 task3 task9 task12 task1 task4 task10 task11 CASE 5z (Right Hand – Extensor) 1.56802 Ρ1 1.5 EMG (Mean) (Standardized)) 1.08744 1.07256 1.07052 0.947705 0.794179 0.859406 0.840511 0.821443 0.7440<mark>21</mark> 0.806187 0.794811 0.7280<mark>85</mark> 0.715235 0.695592 0.655293 0.57981 0.55722 0.50495 0.503694 0.4835 0.424068 0.306895 0.1719<mark>25</mark> 0.116374 0.0677175 -0.0480<mark>332</mark> -0.119688 -<mark>0.0</mark>391461 -0.185714 -0.2024<mark>76</mark> -0.2050<mark>7</mark> <mark>2670</mark>99 -0.27**401,<u>18</u>19**98 -0.303587 -0.341484 -0.43011 -0.423657 -0.5 -0.466624 -0.546156 -0.64**3**2**-6**27554 -0.624496 -0.848355 task5 task10 task11 task12 task1 task2 task3 task4 task6 task7 task8 task9