

**Table S1.** Descriptive data related to the significant electroencephalographic results for alpha, beta, theta, and delta frequency bands (Mean  $\pm$  Standard Deviation)

Frequency bands	Order	ROI	Covid-19	Non-Covid-19
<i>Alpha band</i>	<i>Order 1</i>	Frontopolar	1.27 $\pm$ 0.23	1.30 $\pm$ 0.26
		Frontal	3.11 $\pm$ 1.47	1.09 $\pm$ 2.82
		Tempo-central	2.00 $\pm$ 0.52	2.07 $\pm$ 0.76
		Parieto-occipital	2.75 $\pm$ 0.82	3.87 $\pm$ 0.87
	<i>Order 2</i>	Frontopolar	1.51 $\pm$ 0.22	1.68 $\pm$ 0.25
		Frontal	1.13 $\pm$ 1.40	1.41 $\pm$ 0.27
		Tempo-central	1.88 $\pm$ 0.49	3.60 $\pm$ 0.72
		Parieto-occipital	4.07 $\pm$ 0.78	4.45 $\pm$ 0.82
<i>Beta band</i>	<i>Order 1</i>	Frontopolar	0.78 $\pm$ 0.34	1.04 $\pm$ 0.36
		Frontal	3.78 $\pm$ 2.04	1.04 $\pm$ 0.39
		Tempo-central	1.05 $\pm$ 0.35	1.18 $\pm$ 0.61
		Parieto-occipital	0.80 $\pm$ 0.14	1.98 $\pm$ 0.52
	<i>Order 2</i>	Frontopolar	1.01 $\pm$ 0.30	1.01 $\pm$ 0.32
		Frontal	0.99 $\pm$ 1.83	0.92 $\pm$ 0.34
		Tempo-central	0.80 $\pm$ 0.31	2.28 $\pm$ 0.54
		Parieto-occipital	1.13 $\pm$ 0.12	1.34 $\pm$ 0.46
<i>Theta band</i>	<i>Order 1</i>	Frontopolar	3.21 $\pm$ 0.49	2.94 $\pm$ 0.49
		Frontal	1.79 $\pm$ 4.84	2.04 $\pm$ 0.55
		Tempo-central	2.21 $\pm$ 0.99	2.35 $\pm$ 1.27
		Parieto-occipital	5.17 $\pm$ 0.55	5.92 $\pm$ 0.91
	<i>Order 2</i>	Frontopolar	3.36 $\pm$ 0.44	3.29 $\pm$ 0.44
		Frontal	7.91 $\pm$ 4.33	2.88 $\pm$ 0.49
		Tempo-central	3.19 $\pm$ 0.89	6.12 $\pm$ 1.14
		Parieto-occipital	3.99 $\pm$ 0.49	5.07 $\pm$ 0.82
<i>Delta band</i>	<i>Order 1</i>	Frontopolar	15.40 $\pm$ 3.19	14.39 $\pm$ 3.70
		Frontal	8.33 $\pm$ 1.55	9.48 $\pm$ 2.52
		Tempo-central	9.97 $\pm$ 1.54	8.29 $\pm$ 3.43
		Parieto-occipital	15.73 $\pm$ 1.95	16.05 $\pm$ 4.45
	<i>Order 2</i>	Frontopolar	21.50 $\pm$ 2.85	23.23 $\pm$ 3.31
		Frontal	10.20 $\pm$ 1.38	11.96 $\pm$ 2.25
		Tempo-central	6.51 $\pm$ 1.38	12.00 $\pm$ 3.07
		Parieto-occipital	12.82 $\pm$ 1.74	18.60 $\pm$ 3.98