

Supplementary material 5. Sub-interval partition, selected sub-intervals, and the corresponding wavenumber range in NIR and MIR of optimal mid-level data fusion (MLDF) models on water absorption, dough development time, dough stability and degree of softening predication

Indices ^a	Spectra	Sub-interval partition	Selected sub-intervals	Corresponding wavenumber range (cm ⁻¹)
WA	NIR	50	8 - 9, 13, 15, 18 - 37, 39 - 40, 42, 44, 47, 49	11220.4-10873.3, 10333.3-10163.6, 9978.4-9808.7, 9446.2-5905.3, 5720.2-5373.0, 5187.9-5018.2, 4833.0-4663.3, 4300.7 -4131.0, 3945.9-3776.1
	MIR	50	3, 9 - 13, 16 - 21, 25 - 26, 28, 36 - 37	3857-3787, 3431-3077, 2934-2509, 2295-2154, 2082-2012, 1514-1373
DDT	NIR	40	9, 13, 15, 17, 19-25, 28 - 29, 32, 35	10888.7-10695.9, 10086.4-9893.6, 9685.3-9492.4, 9284.2-9091.3, 8883.0-7486.7, 7077.9-6684.4, 6291.0-6105.9, 5712.4-5527.3
	MIR	40	7 - 9, 13, 21	3526-3290, 3052-2974, 2420-2342
DS	NIR	50	5, 8, 11, 13, 15 - 16, 20 - 27, 29, 34 - 36	11752.7-11583.0, 11220.4-11050.7, 10688.2-10518.4, 10333.3-10163.6, 9978.4-9631.3, 9091.3-7679.6, 7494.4-7324.7, 6607.3-6082.7
	MIR	50	9, 17, 22, 27	3431-3361, 2863-2793, 2508-2438, 2153-2083
DOS	NIR	50	10, 13, 18, 21-22, 25-31, 35-36, 47	10865.6-10695.9, 10333.3-10163.6, 9446.2-9276.4, 8913.9-8566.7, 8204.2-6969.9, 6429.9-6082.7, 4300.7-4131.0
	MIR	50	11, 18, 20, 22, 28, 44	3289-3219, 2792-2722, 2650-2580, 2508-2438, 2082-2012, 946-876

^aWA: water absorption; DDT, dough development time; DS, dough stability; DOS, degree of softening.