**Table S3 Leaf color spectral data of ‘F2-449’ population**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Wavelength(nm) | Mean | Standard deviation, SD | Skewness | Kurtosis | Coefficient of variation,  CV (%) |
| 365 | 5.05 | 0.02 | -0.55 | 0.67 | 8% |
| 405 | 5.30 | 0.02 | -0.14 | 0.36 | 8% |
| 430 | 6.01 | 0.03 | 0.04 | 0.52 | 8% |
| 450 | 6.80 | 0.03 | 0.12 | 0.60 | 9% |
| 470 | 7.10 | 0.03 | 0.14 | 0.45 | 9% |
| 490 | 7.97 | 0.04 | 0.26 | 0.35 | 10% |
| 515 | 12.37 | 0.08 | 0.40 | 0.37 | 13% |
| 540 | 12.87 | 0.09 | 0.37 | 0.35 | 13% |
| 570 | 15.18 | 0.11 | 0.37 | 0.31 | 14% |
| 590 | 12.66 | 0.10 | 0.55 | 0.57 | 15% |
| 630 | 10.40 | 0.08 | 0.76 | 1.11 | 15% |
| 645 | 9.56 | 0.07 | 0.73 | 1.10 | 14% |
| 660 | 8.03 | 0.05 | 0.58 | 1.00 | 12% |
| 690 | 10.62 | 0.07 | 0.67 | 1.10 | 12% |
| 780 | 46.30 | 0.08 | 0.04 | 0.07 | 3% |
| 850 | 50.68 | 0.08 | 0.13 | 0.02 | 3% |
| 880 | 52.23 | 0.08 | 0.14 | 0.07 | 3% |
| 940 | 54.76 | 0.08 | 0.17 | 0.16 | 3% |
| 970 | 55.00 | 0.08 | 0.19 | 0.15 | 3% |
| R | 10.62 | 0.07 | 0.67 | 1.10 | 12% |
| G | 12.87 | 0.09 | 0.37 | 0.35 | 13% |
| B | 6.01 | 0.03 | 0.04 | 0.52 | 8% |
| H | 0.22 | 0.00 | -0.48 | 0.80 | 4% |
| S | 0.22 | 0.00 | 0.82 | 0.95 | 28% |
| L | 0.37 | 0.00 | 0.29 | 0.43 | 11% |