

Figure S1. UV chromatograms at 280 nm and MS spectra for (A) peak 5 and (B) peak 28.

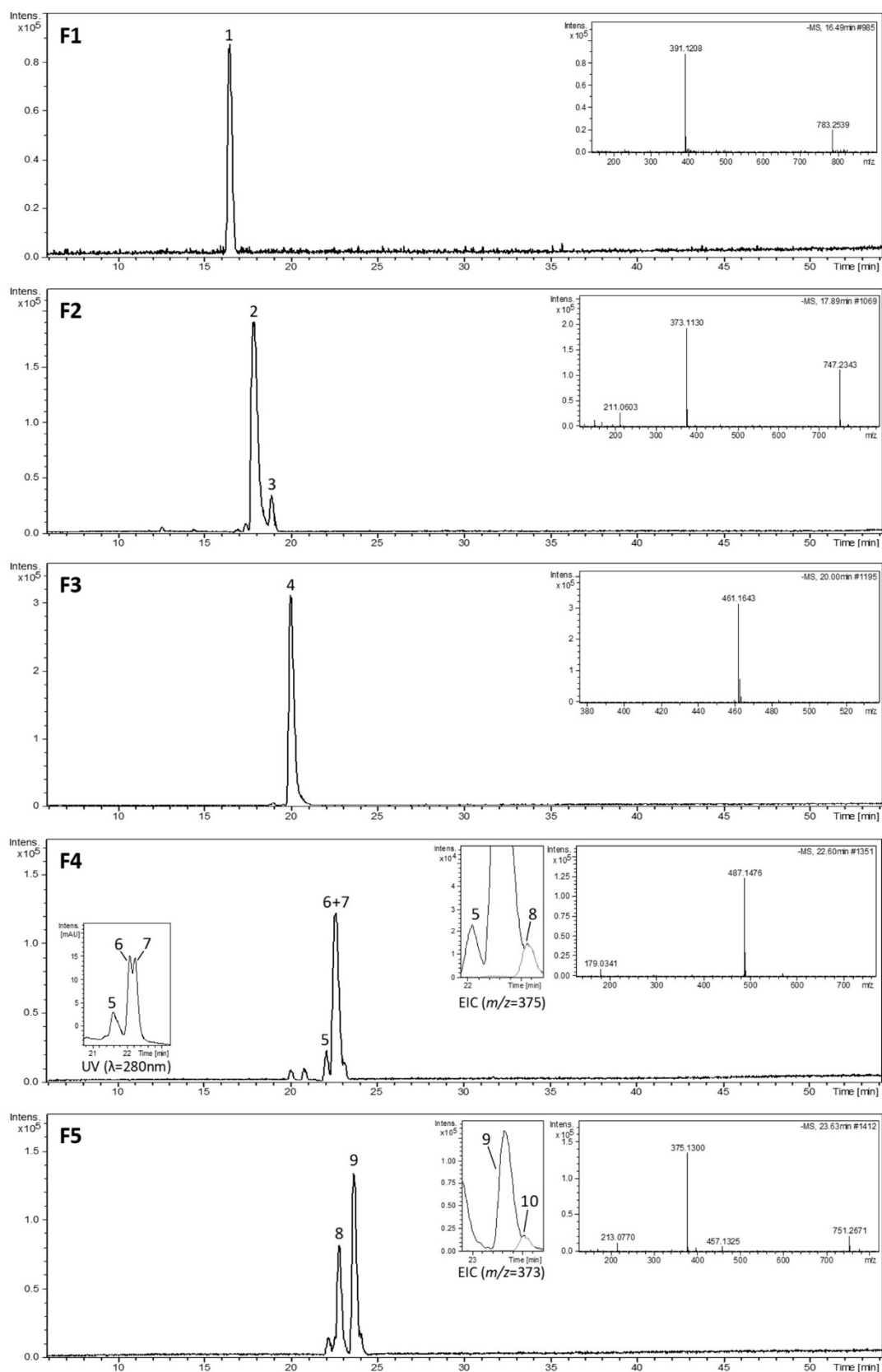


Figure S2. Base peak chromatograms of the collected fractions from a commercial lemon verbena extract (PLX®10) and MS spectra of their major compound, including the peak numbers of Table 1. UV/EIC chromatograms were added in those cases where they were considered necessary.

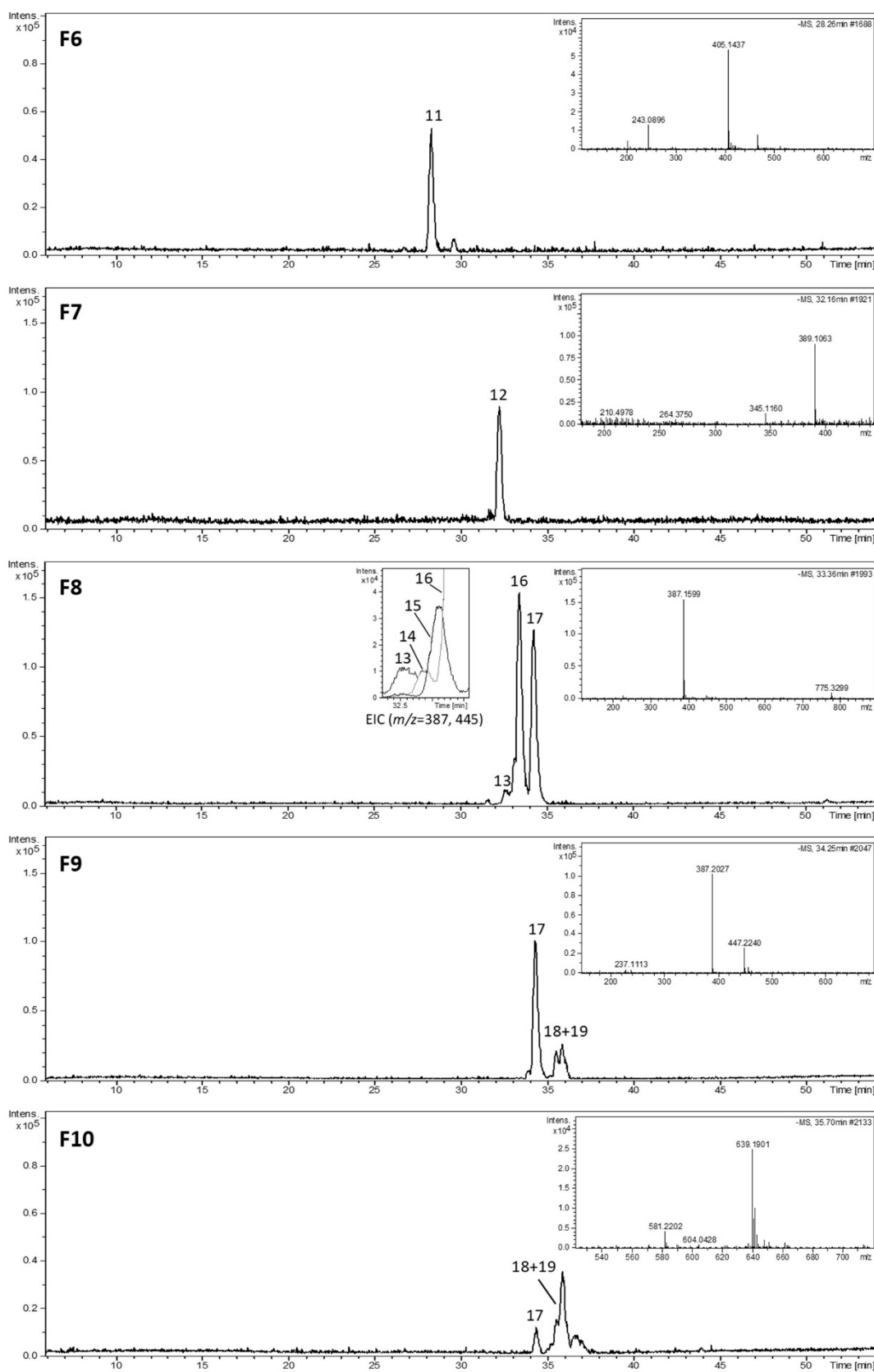


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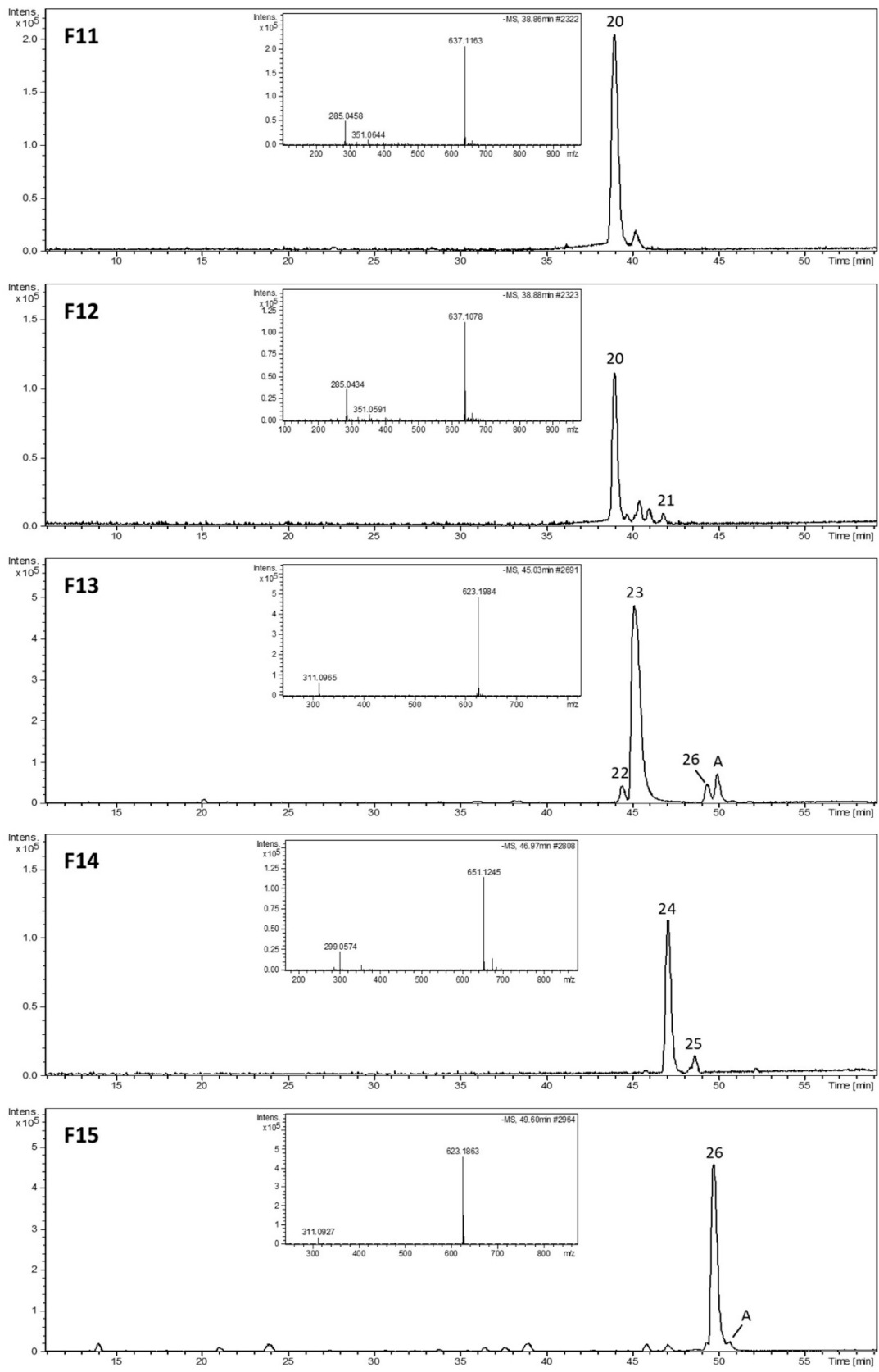


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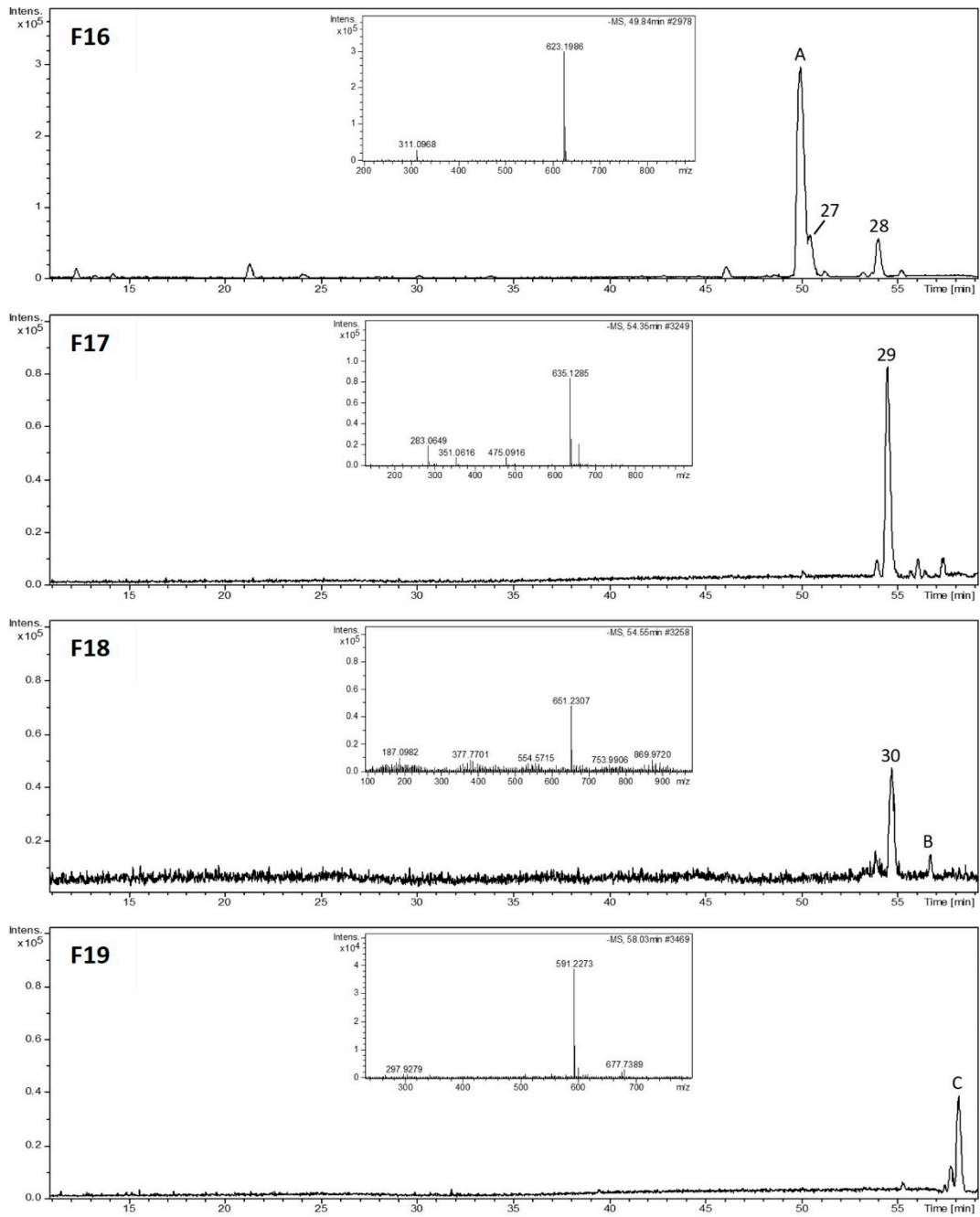


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Table S1. In vitro antioxidant activity by FRAP, TEAC, and ORAC assays for the commercial lemon verbena extract (PLX®10) and its collected fractions, expressed as the mean of three independent replicates \pm the standard deviation. ^a mmoles equivalents of Fe²⁺/g (dry weight), ^b mmoles equivalents of Trolox/g (dw).

| Sample | FRAP ^a | TEAC ^b | ORAC ^b |
|---------------|-------------------|-------------------|-------------------|
| PLX®10 | 0.676 \pm 0.002 | 0.35 \pm 0.03 | 1.2 \pm 0.1 |
| F1 | 0.009 \pm 0.001 | 0.008 \pm 0.001 | 0.051 \pm 0.008 |
| F2 | 0.045 \pm 0.003 | 0.035 \pm 0.001 | 0.174 \pm 0.006 |
| F3 | 0.270 \pm 0.001 | 0.182 \pm 0.004 | 0.99 \pm 0.01 |
| F4 | 0.122 \pm 0.003 | 0.082 \pm 0.001 | 0.30 \pm 0.01 |
| F5 | 0.068 \pm 0.002 | 0.043 \pm 0.003 | 0.19 \pm 0.02 |
| F6 | 0.074 \pm 0.003 | 0.041 \pm 0.009 | 0.223 \pm 0.009 |
| F7 | 0.048 \pm 0.001 | 0.033 \pm 0.003 | 0.131 \pm 0.004 |
| F8 | 0.137 \pm 0.007 | 0.077 \pm 0.007 | 0.23 \pm 0.01 |
| F9 | 0.192 \pm 0.007 | 0.111 \pm 0.002 | 0.290 \pm 0.007 |
| F10 | 0.27 \pm 0.01 | 0.16 \pm 0.01 | 0.55 \pm 0.06 |
| F11 | 0.58 \pm 0.02 | 0.246 \pm 0.003 | 1.2 \pm 0.1 |
| F12 | 0.51 \pm 0.02 | 0.290 \pm 0.001 | 1.74 \pm 0.09 |
| F13 | 1.9 \pm 0.1 | 0.84 \pm 0.04 | 3.2 \pm 0.3 |
| F14 | 0.084 \pm 0.007 | 0.057 \pm 0.006 | 1.05 \pm 0.01 |
| F15 | 1.57 \pm 0.09 | 0.72 \pm 0.04 | 1.5 \pm 0.1 |
| F16 | 0.83 \pm 0.07 | 0.37 \pm 0.02 | 0.68 \pm 0.01 |
| F17 | 0.120 \pm 0.005 | 0.077 \pm 0.006 | 0.169 \pm 0.002 |
| F18 | 0.179 \pm 0.005 | 0.101 \pm 0.02 | 0.23 \pm 0.03 |
| F19 | 0.091 \pm 0.007 | 0.050 \pm 0.005 | 0.12 \pm 0.02 |