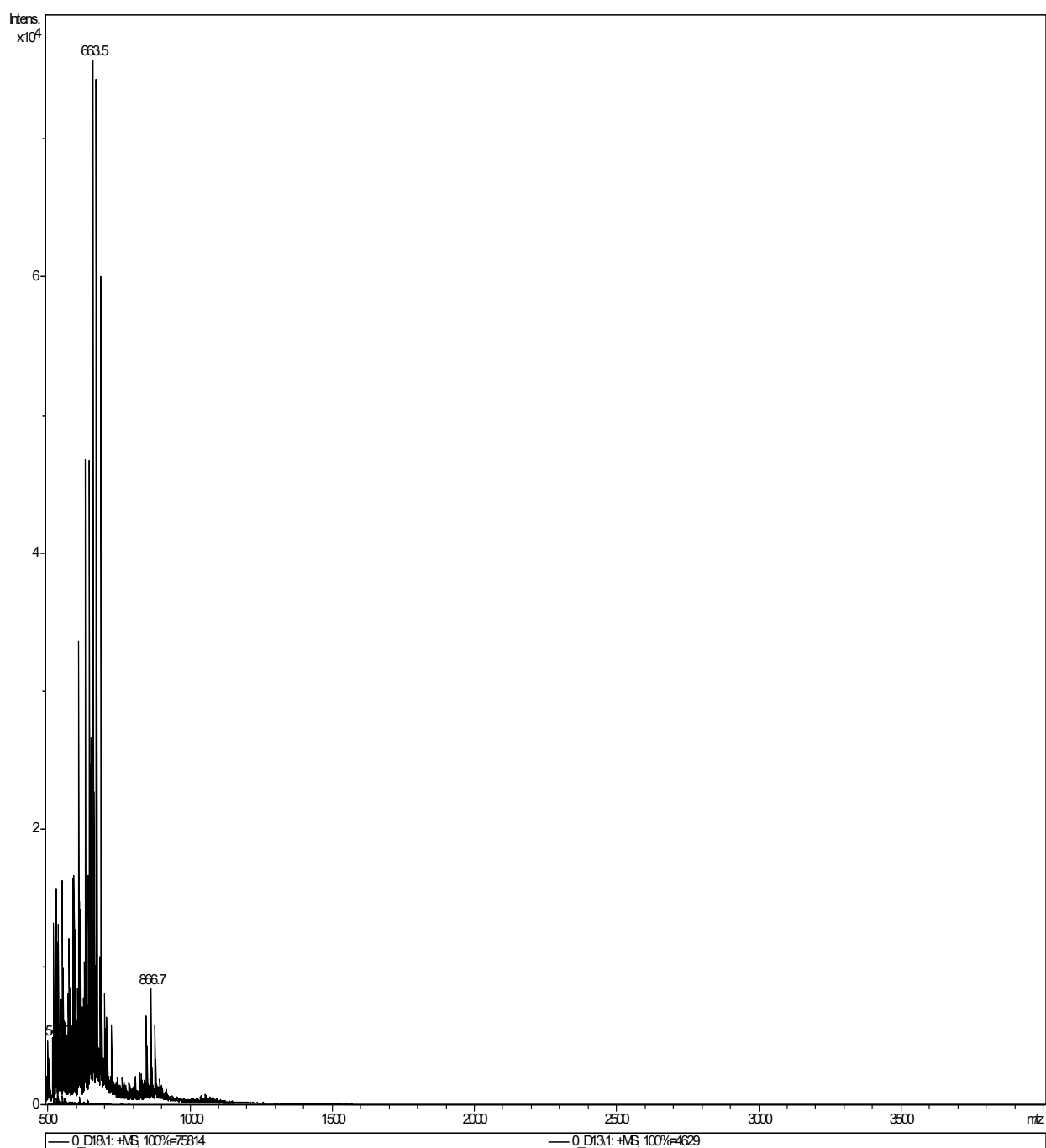
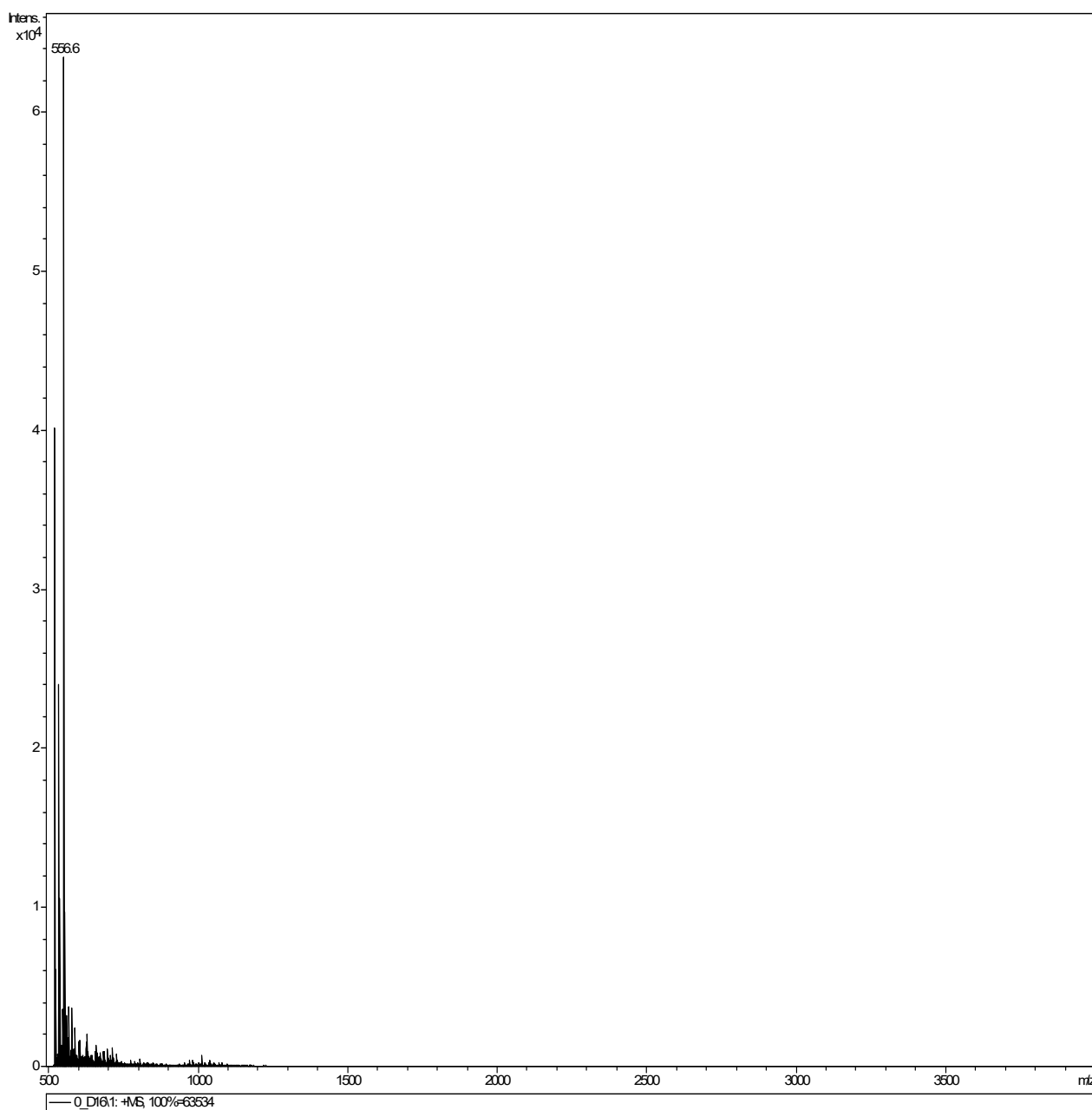
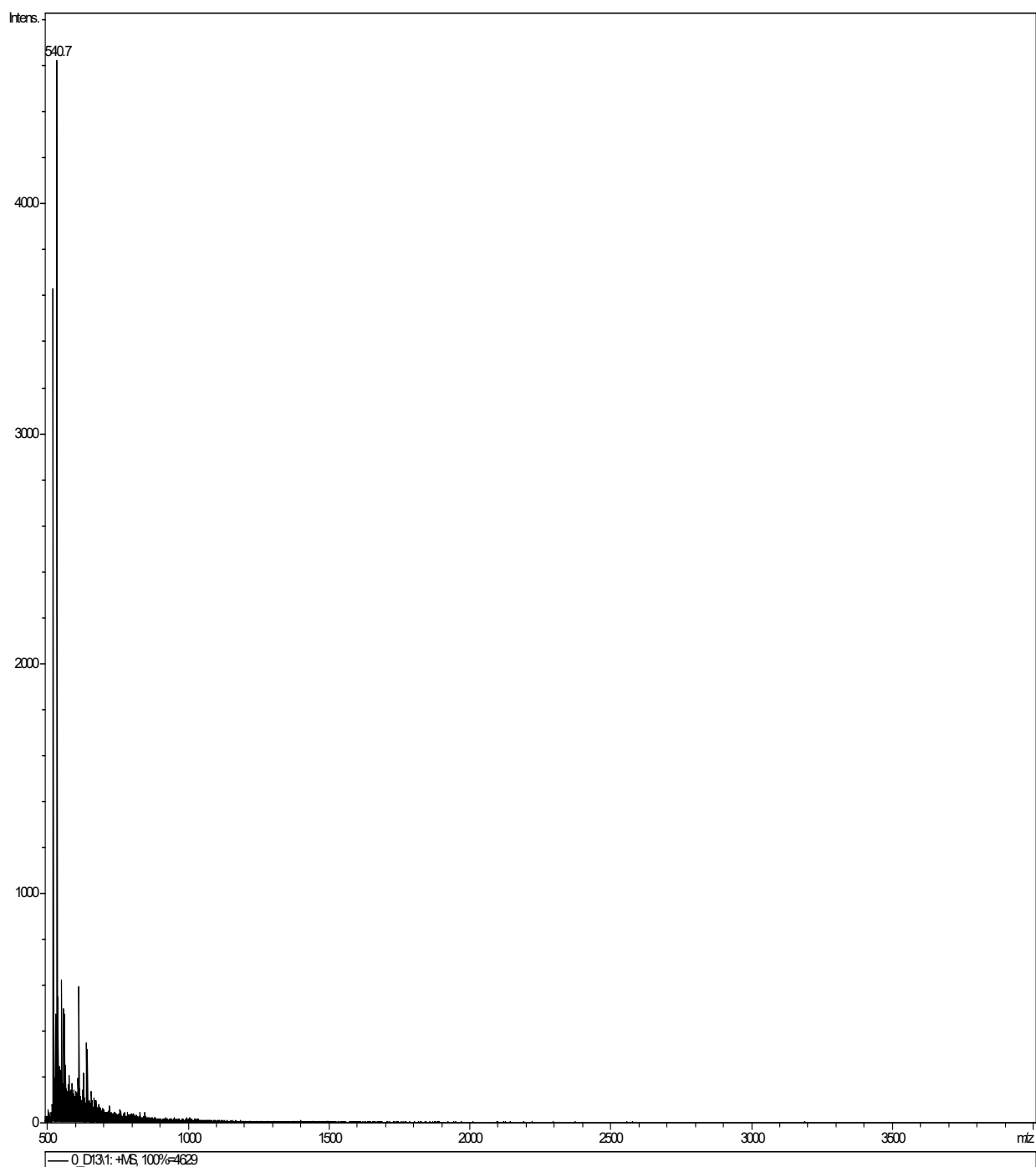




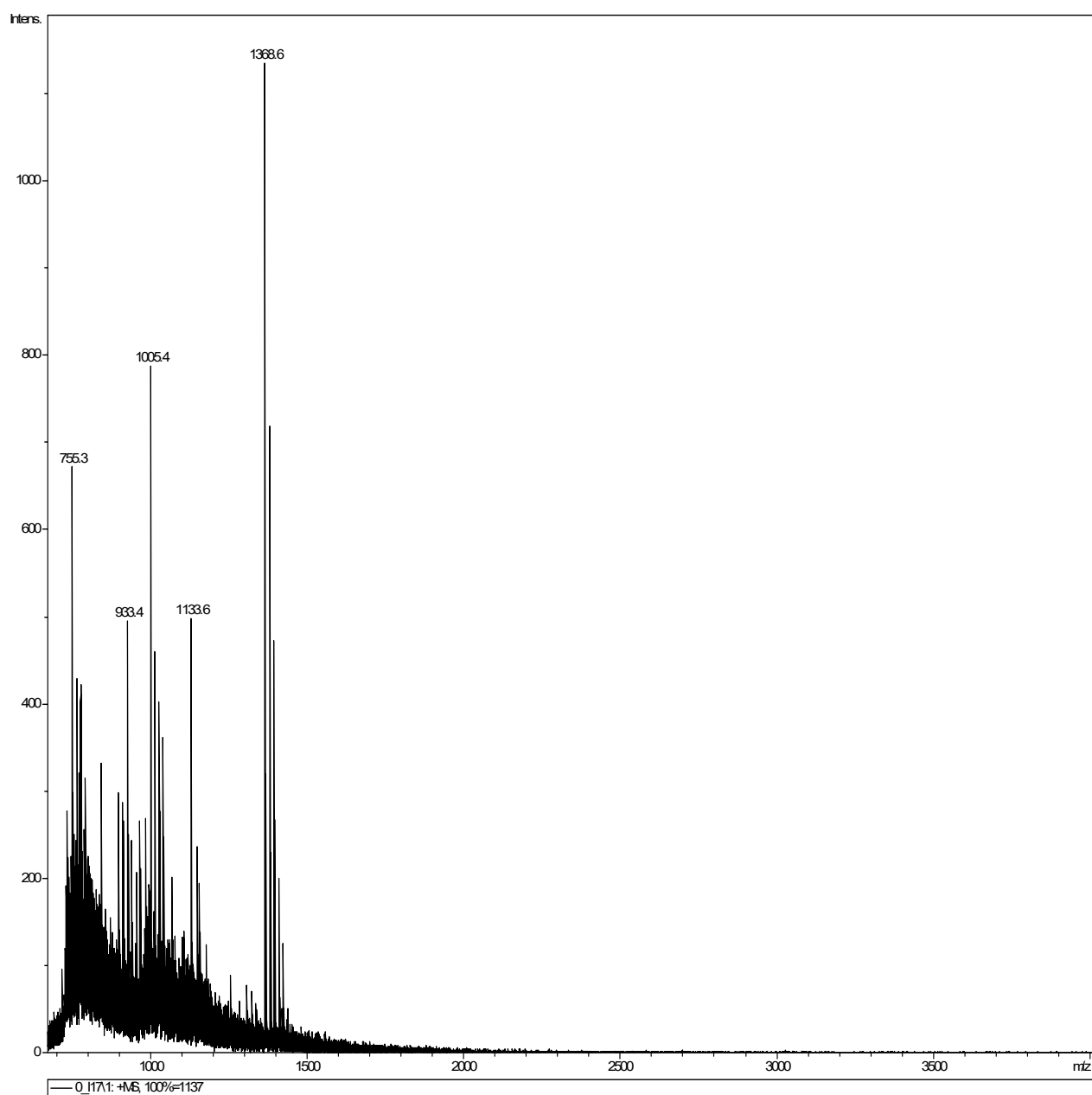
**Figure S1.** MALDI-TOF-MS spectrum of RAC sample after Sephadex LH-purification stored one month at 21 °C. RAC = radish extract + acetaldehyde (70 mM) + catechin (1.7 mM)



**Figure S2.** MALDI-TOF-MS spectrum of RAC sample after Sephadex LH-20 purification stored four months at 21 °C. RAC = radish extract + acetaldehyde (70 mM) + catechin (1.7 mM)



**Figure 3.** MALDI-TOF-MS spectrum of RAC sample after Sephadex LH-20 purification stored 12 months at 21 °C. RAC = radish extract + acetaldehyde (70 mM) + catechin (1.7 mM)



**Figure S4.** MALDI-TOF-MS spectrum of HPLC fraction 43 of RAC sample after Sephadex LH-20 purification stored one month at 21 °C. RAC = radish extract + acetaldehyde (70 mM) + catechin (1.7 mM)

Raw Data for Fig. 1

| Treatment         | Time | L* value | C* value | h value | a* value | b* value |
|-------------------|------|----------|----------|---------|----------|----------|
| Radish control    | 0    | 38.98    | 13.96    | 21.49   | 12.99    | 5.11     |
| Radish control    | 0    | 38.98    | 14.1     | 21.15   | 12.54    | 5.21     |
| Radish control    | 0    | 38.44    | 14.03    | 21.54   | 12.45    | 5.14     |
| Radish acetal     | 0    | 38.56    | 13.66    | 21.56   | 12.64    | 5.16     |
| Radish acetal     | 0    | 39.52    | 13.25    | 21.36   | 12.84    | 5.31     |
| Radish acetal     | 0    | 38.62    | 13.62    | 21.94   | 12.67    | 5.14     |
| R.ace.Catechin    | 0    | 38.41    | 13.87    | 22.05   | 12.15    | 5.15     |
| R.ace.Catechin    | 0    | 38.95    | 13.98    | 22.35   | 12.61    | 5.22     |
| R.ace.Catechin    | 0    | 38.1     | 13.45    | 21.46   | 12.63    | 5.11     |
| R.ace.Dagoba      | 0    | 39.25    | 14.21    | 21.02   | 12.45    | 5.52     |
| R.ace.Dagoba      | 0    | 39.26    | 13.55    | 21.74   | 12.5     | 5.1      |
| R.ace.Dagoba      | 0    | 39.46    | 13.66    | 21.83   | 12.48    | 5.21     |
| R.ace.HersheyDark | 0    | 39.33    | 13.85    | 21.19   | 12.52    | 5.14     |
| R.ace.HersheyDark | 0    | 39.15    | 13.21    | 21.39   | 13.12    | 5.13     |
| R.ace.HersheyDark | 0    | 39.02    | 13.69    | 21.85   | 12.54    | 5.21     |
| R.ace.FavaBean    | 0    | 40.2     | 13.47    | 21.05   | 12.49    | 5.11     |
| R.ace.FavaBean    | 0    | 38.56    | 13.51    | 21.36   | 12.94    | 5.21     |
| R.ace.FavaBean    | 0    | 39.2     | 13.69    | 21.43   | 13.12    | 5.11     |
| Radish control    | 4    | 33.91    | 35.32    | 39.75   | 27.15    | 22.58    |
| Radish control    | 4    | 33.75    | 35.15    | 39.62   | 27.02    | 22.49    |
| Radish control    | 4    | 33.81    | 35.02    | 39.78   | 26.97    | 22.33    |
| Radish acetal     | 4    | 36.94    | 30.11    | 35.01   | 24.66    | 17.27    |
| Radish acetal     | 4    | 35.74    | 30.28    | 35.3    | 24.71    | 17.5     |
| Radish acetal     | 4    | 36.77    | 30.38    | 35.32   | 24.79    | 17.57    |
| R.ace.Catechin    | 4    | 27.71    | 29.44    | 23.34   | 27.03    | 11.66    |
| R.ace.Catechin    | 4    | 27.13    | 29.95    | 22.65   | 24.87    | 10.38    |
| R.ace.Catechin    | 4    | 26.59    | 27.12    | 23.32   | 24.9     | 10.74    |
| R.ace.Dagoba      | 4    | 36.85    | 29.91    | 35.25   | 24.43    | 17.26    |
| R.ace.Dagoba      | 4    | 36.66    | 28.8     | 34.25   | 23.81    | 16.21    |
| R.ace.Dagoba      | 4    | 37.42    | 30.68    | 35.85   | 24.87    | 17.97    |
| R.ace.HersheyDark | 4    | 36.93    | 30.98    | 36.77   | 24.82    | 18.55    |
| R.ace.HersheyDark | 4    | 36.73    | 30.84    | 36.73   | 24.71    | 18.44    |
| R.ace.HersheyDark | 4    | 36.89    | 30.56    | 36.5    | 24.56    | 18.18    |
| R.ace.FavaBean    | 4    | 34.88    | 29.45    | 31.16   | 25.2     | 15.24    |
| R.ace.FavaBean    | 4    | 34.58    | 29.78    | 31.36   | 25.43    | 15.5     |
| R.ace.FavaBean    | 4    | 34.68    | 29.65    | 31.25   | 25.36    | 15.38    |
| Radish control    | 14   | 33.15    | 32.82    | 38.42   | 25.72    | 20.4     |
| Radish control    | 14   | 33.05    | 33.05    | 38.59   | 25.83    | 20.61    |
| Radish control    | 14   | 31.94    | 31.15    | 37.71   | 24.64    | 19.05    |
| Radish acetal     | 14   | 37.39    | 21.86    | 26.4    | 19.58    | 9.72     |

|                   |    |       |       |       |       |        |
|-------------------|----|-------|-------|-------|-------|--------|
| Radish acetal     | 14 | 37.24 | 22.12 | 26.66 | 19.77 | 9.92   |
| Radish acetal     | 14 | 37.04 | 22.2  | 26.53 | 19.86 | 9.91   |
| R.ace.Catechin    | 14 | 27.14 | 27.18 | 17.88 | 25.83 | 8.33   |
| R.ace.Catechin    | 14 | 27.62 | 27.1  | 17.13 | 25.9  | 7.95   |
| R.ace.Catechin    | 14 | 27.22 | 27.19 | 17.56 | 25.92 | 8.21   |
| R.ace.Dagoba      | 14 | 36.77 | 22.3  | 26.18 | 20.01 | 9.84   |
| R.ace.Dagoba      | 14 | 36.19 | 23.18 | 27.05 | 20.64 | 10.45  |
| R.ace.Dagoba      | 14 | 35.97 | 23.79 | 27.28 | 21.14 | 10.9   |
| R.ace.HersheyDark | 14 | 37.28 | 22.26 | 27.63 | 19.72 | 10.32  |
| R.ace.HersheyDark | 14 | 36.7  | 23.44 | 28.39 | 20.62 | 11.14  |
| R.ace.HersheyDark | 14 | 36.42 | 23.89 | 28.8  | 20.93 | 11.51  |
| R.ace.FavaBean    | 14 | 34.22 | 23.89 | 20.33 | 22.4  | 8.3    |
| R.ace.FavaBean    | 14 | 34.17 | 23.76 | 19.3  | 22.43 | 7.85   |
| R.ace.FavaBean    | 14 | 34.23 | 23.69 | 19.2  | 22.39 | 7.79   |
| Radish control    | 28 | 35.48 | 25.13 | 28    | 22.19 | 11.8   |
| Radish control    | 28 | 35.46 | 25.14 | 28.02 | 22.19 | 11.814 |
| Radish control    | 28 | 35.36 | 25.28 | 28.12 | 22.29 | 77.94  |
| Radish acetal     | 28 | 38.18 | 18.81 | 23.45 | 17.26 | 7.48   |
| Radish acetal     | 28 | 38.03 | 19.04 | 23.59 | 17.45 | 7.62   |
| Radish acetal     | 28 | 38.52 | 17.61 | 21.79 | 16.35 | 6.54   |
| R.ace.Catechin    | 28 | 30.39 | 25.98 | 14.53 | 25.15 | 6.52   |
| R.ace.Catechin    | 28 | 29.53 | 26.64 | 15.61 | 25.65 | 7.17   |
| R.ace.Catechin    | 28 | 29.16 | 26.74 | 16.22 | 25.68 | 7.47   |
| R.ace.Dagoba      | 28 | 37.17 | 18.1  | 21.64 | 16.83 | 6.68   |
| R.ace.Dagoba      | 28 | 38    | 18.52 | 21.84 | 17.19 | 6.89   |
| R.ace.Dagoba      | 28 | 38.3  | 18.29 | 21.77 | 16.98 | 6.78   |
| R.ace.HersheyDark | 28 | 38.52 | 18.08 | 22.47 | 16.71 | 6.91   |
| R.ace.HersheyDark | 28 | 38.56 | 18.31 | 22.63 | 16.9  | 7.04   |
| R.ace.HersheyDark | 28 | 38.43 | 18.14 | 22.73 | 16.72 | 7.02   |
| R.ace.FavaBean    | 28 | 36.57 | 19.87 | 16.49 | 19.05 | 5.64   |
| R.ace.FavaBean    | 28 | 36.48 | 20    | 15.97 | 19.23 | 5.51   |
| R.ace.FavaBean    | 28 | 36.46 | 18.75 | 16.13 | 18.48 | 5.49   |
| Radish control    | 58 | 36.21 | 24.2  | 28.58 | 21.25 | 11.57  |
| Radish control    | 58 | 35.98 | 24.33 | 28.91 | 21.3  | 11.73  |
| Radish control    | 58 | 38.36 | 24.35 | 28.06 | 21.25 | 11.61  |
| Radish acetal     | 58 | 39.25 | 16.62 | 24.34 | 15.14 | 6.85   |
| Radish acetal     | 58 | 38.93 | 17.31 | 24.69 | 15.72 | 7.23   |
| Radish acetal     | 58 | 40.03 | 15.32 | 22.62 | 14.15 | 6.27   |
| R.ace.Catechin    | 58 | 32.12 | 24.54 | 14.41 | 23.77 | 6.11   |
| R.ace.Catechin    | 58 | 31.25 | 25.48 | 15    | 24.61 | 6.6    |
| R.ace.Catechin    | 58 | 31.02 | 25.8  | 15.58 | 24.85 | 6.93   |
| R.ace.Dagoba      | 58 | 39.32 | 15.79 | 22.37 | 14.6  | 6.01   |
| R.ace.Dagoba      | 58 | 39.49 | 15.73 | 22.75 | 14.53 | 5.09   |

|                   |     |       |       |       |       |      |
|-------------------|-----|-------|-------|-------|-------|------|
| R.ace.Dagoba      | 58  | 39.34 | 16.07 | 22.76 | 14.82 | 6.21 |
| R.ace.HersheyDark | 58  | 39.81 | 15.31 | 23.41 | 14.05 | 6.08 |
| R.ace.HersheyDark | 58  | 40.03 | 15.2  | 23.66 | 13.92 | 6.1  |
| R.ace.HersheyDark | 58  | 39.89 | 15.03 | 23.29 | 13.81 | 5.94 |
| R.ace.FavaBean    | 58  | 38.58 | 16.75 | 18.8  | 15.85 | 5.4  |
| R.ace.FavaBean    | 58  | 38.56 | 16.95 | 18.22 | 16.1  | 5.3  |
| R.ace.FavaBean    | 58  | 38.27 | 17.05 | 18.09 | 16.21 | 2.29 |
| Radish control    | 88  | 40.17 | 12.32 | 18.77 | 11.67 | 3.96 |
| Radish control    | 88  | 40.09 | 12.2  | 18.85 | 11.54 | 3.94 |
| Radish control    | 88  | 39.68 | 13.31 | 19.02 | 12.58 | 4.34 |
| Radish acetal     | 88  | 41.04 | 13.38 | 26.01 | 12.03 | 5.87 |
| Radish acetal     | 88  | 40.64 | 13.84 | 26.43 | 12.4  | 6.16 |
| Radish acetal     | 88  | 40.89 | 13.46 | 26.03 | 12.09 | 5.91 |
| R.ace.Catechin    | 88  | 32.98 | 23.41 | 15.06 | 22.61 | 6.08 |
| R.ace.Catechin    | 88  | 32.76 | 23.86 | 14.97 | 23.05 | 6.16 |
| R.ace.Catechin    | 88  | 32.69 | 23.92 | 14.93 | 23.11 | 6.17 |
| R.ace.Dagoba      | 88  | 41.67 | 12.49 | 26.05 | 11.22 | 5.49 |
| R.ace.Dagoba      | 88  | 40.3  | 13.17 | 26.16 | 11.82 | 5.81 |
| R.ace.Dagoba      | 88  | 40.09 | 13.48 | 26.86 | 12.03 | 6.09 |
| R.ace.HersheyDark | 88  | 41.09 | 13.05 | 26.7  | 11.63 | 5.85 |
| R.ace.HersheyDark | 88  | 40.75 | 12.98 | 28.1  | 11.45 | 6.11 |
| R.ace.HersheyDark | 88  | 41.82 | 11.95 | 26.73 | 10.68 | 5.38 |
| R.ace.FavaBean    | 88  | 41.05 | 12.97 | 21.33 | 12.08 | 4.72 |
| R.ace.FavaBean    | 88  | 40.41 | 13.83 | 21.25 | 12.89 | 5.01 |
| R.ace.FavaBean    | 88  | 40.39 | 13.84 | 21.39 | 12.88 | 5.04 |
| Radish control    | 118 | 40.17 | 12.23 | 18.77 | 11.67 | 3.96 |
| Radish control    | 118 | 40.09 | 12.2  | 18.85 | 11.54 | 3.94 |
| Radish control    | 118 | 39.68 | 13.31 | 19.02 | 12.58 | 4.34 |
| Radish acetal     | 118 | 41.01 | 13.38 | 26.01 | 12.03 | 5.87 |
| Radish acetal     | 118 | 40.64 | 13.84 | 26.43 | 12.4  | 6.16 |
| Radish acetal     | 118 | 40.89 | 13.46 | 26.03 | 12.09 | 5.91 |
| R.ace.Catechin    | 118 | 32.98 | 23.41 | 15.06 | 22.61 | 6.08 |
| R.ace.Catechin    | 118 | 32.76 | 23.86 | 14.97 | 23.05 | 6.16 |
| R.ace.Catechin    | 118 | 32.69 | 23.92 | 14.93 | 23.11 | 6.17 |
| R.ace.Dagoba      | 118 | 41.24 | 12.49 | 26.05 | 11.22 | 5.49 |
| R.ace.Dagoba      | 118 | 40.85 | 13.17 | 26.16 | 11.82 | 5.81 |
| R.ace.Dagoba      | 118 | 40.12 | 13.47 | 26.86 | 12.03 | 6.09 |
| R.ace.HersheyDark | 118 | 41.09 | 13.02 | 26.7  | 11.63 | 5.85 |
| R.ace.HersheyDark | 118 | 40.75 | 12.98 | 28.1  | 11.45 | 6.11 |
| R.ace.HersheyDark | 118 | 41.82 | 11.95 | 26.73 | 10.69 | 5.39 |
| R.ace.FavaBean    | 118 | 40.05 | 12.97 | 21.33 | 12.08 | 4.72 |
| R.ace.FavaBean    | 118 | 40.41 | 13.83 | 21.25 | 12.89 | 5.01 |
| R.ace.FavaBean    | 118 | 40.69 | 13.81 | 21.39 | 12.88 | 5.04 |

|                   |     |       |       |       |       |      |
|-------------------|-----|-------|-------|-------|-------|------|
| Radish control    | 148 | 39.05 | 14.99 | 21.67 | 13.93 | 5.54 |
| Radish control    | 148 | 39.02 | 14.97 | 21.61 | 13.92 | 5.51 |
| Radish control    | 148 | 38.87 | 15.23 | 22.94 | 14.03 | 5.94 |
| Radish acetal     | 148 | 41.89 | 12.17 | 30.88 | 10.44 | 6.24 |
| Radish acetal     | 148 | 41.67 | 12.55 | 30.94 | 10.77 | 6.45 |
| Radish acetal     | 148 | 42.89 | 10.35 | 32.28 | 8.75  | 5.53 |
| R.ace.Catechin    | 148 | 35.01 | 21.38 | 14.94 | 20.66 | 5.51 |
| R.ace.Catechin    | 148 | 34.07 | 20.49 | 14.95 | 18.8  | 5.28 |
| R.ace.Catechin    | 148 | 34.04 | 20.52 | 14.89 | 19.93 | 5.28 |
| R.ace.Dagoba      | 148 | 42.42 | 10.96 | 31.59 | 9.34  | 5.74 |
| R.ace.Dagoba      | 148 | 42.38 | 11.02 | 31.56 | 9.39  | 5.77 |
| R.ace.Dagoba      | 148 | 40.77 | 11.84 | 33.04 | 9.92  | 6.45 |
| R.ace.HersheyDark | 148 | 42.55 | 10.93 | 32.26 | 9.24  | 5.83 |
| R.ace.HersheyDark | 148 | 42.49 | 11.15 | 32.33 | 9.42  | 5.96 |
| R.ace.HersheyDark | 148 | 42.44 | 11.09 | 32.44 | 9.36  | 5.95 |
| R.ace.FavaBean    | 148 | 41.8  | 11.96 | 28.47 | 10.51 | 5.7  |
| R.ace.FavaBean    | 148 | 41.93 | 11.47 | 26.36 | 10.28 | 5.09 |
| R.ace.FavaBean    | 148 | 41.9  | 11.47 | 26.37 | 10.28 | 5.09 |
| Radish control    | 178 | 38.98 | 13.96 | 21.49 | 12.99 | 5.11 |
| Radish control    | 178 | 38.98 | 13.91 | 21.66 | 12.92 | 5.13 |
| Radish control    | 178 | 38.94 | 13.87 | 21.45 | 12.91 | 5.07 |
| Radish acetal     | 178 | 41.86 | 12    | 35.52 | 9.76  | 6.97 |
| Radish acetal     | 178 | 41.77 | 12.25 | 35.34 | 10.01 | 7.09 |
| Radish acetal     | 178 | 41.65 | 12.13 | 35.73 | 9.84  | 7.08 |
| R.ace.Catechin    | 178 | 37.3  | 17.89 | 14.48 | 17.32 | 4.47 |
| R.ace.Catechin    | 178 | 37.12 | 17.95 | 14.7  | 17.36 | 4.55 |
| R.ace.Catechin    | 178 | 36.58 | 18.44 | 14.59 | 17.85 | 4.64 |
| R.ace.Dagoba      | 178 | 42.95 | 10.15 | 35.23 | 8.29  | 5.86 |
| R.ace.Dagoba      | 178 | 42.67 | 10.04 | 35.16 | 8.21  | 5.78 |
| R.ace.Dagoba      | 178 | 42.59 | 10.26 | 35.41 | 8.37  | 5.95 |
| R.ace.HersheyDark | 178 | 43.36 | 9.66  | 37.32 | 7.68  | 5.86 |
| R.ace.HersheyDark | 178 | 43.3  | 9.42  | 37.42 | 7.49  | 5.78 |
| R.ace.HersheyDark | 178 | 43.23 | 9.7   | 37.54 | 7.73  | 5.91 |
| R.ace.FavaBean    | 178 | 42.76 | 10.18 | 32.72 | 8.56  | 5.5  |
| R.ace.FavaBean    | 178 | 42.55 | 10.14 | 33.13 | 8.49  | 5.54 |
| R.ace.FavaBean    | 178 | 42.24 | 10.26 | 33.29 | 8.57  | 5.63 |



|           |          |           |          |           |          |   |
|-----------|----------|-----------|----------|-----------|----------|---|
|           | Day 4    |           |          |           |          |   |
|           |          |           |          |           |          |   |
| Retention | Area     | Retention | Area     | Retention | Area     |   |
| 14.31     | 378416   | 14.43     | 350836   | 14.64     | 371892   | 1 |
| 23.72     | 697796   | 23.89     | 717055   | 24.04     | 611529   | 2 |
| 37.45     | 314044   | 37.64     | 284172   | 37.77     | 288070   | 3 |
| 39.91     | 1836232  | 40.12     | 1771436  | 40.27     | 1809010  | 4 |
| 42.11     | 7076623  | 42.32     | 6978666  | 42.47     | 6980606  | 5 |
| 43.85     | 1734595  | 44.07     | 1726435  | 44.21     | 1711881  | 6 |
| 45.30     | 43414141 | 45.50     | 43187292 | 45.69     | 42953533 | 7 |
| 48.70     | 1103415  | 48.89     | 1073480  | 49.11     | 1054345  | 8 |
| 49.97     | 742448   | 50.14     | 727386   | 50.37     | 723515   | 9 |
|           |          |           |          |           |          |   |
| Retention | Area     | Retention | Area     | Retention | Area     |   |
| 23.27     | 389735   | 23.20     | 280279   |           |          |   |
| 39.31     | 387307   | 39.37     | 387862   | 39.66     | 380234   | 1 |
| 41.50     | 3815581  | 41.55     | 3883162  | 41.84     | 3794486  | 2 |
| 43.24     | 610548   | 43.34     | 763155   | 43.63     | 708384   | 3 |
| 44.76     | 16107755 | 44.85     | 16418062 | 45.11     | 16139210 | 4 |
| 46.99     | 1149094  | 47.14     | 1609387  | 47.45     | 1612427  | 5 |
| 49.33     | 507985   | 48.16     | 666858   | 48.49     | 603592   | 6 |
|           |          | 49.47     | 1077501  | 49.77     | 1076130  | 7 |
|           |          |           |          |           |          |   |
|           |          |           |          |           |          |   |
|           |          |           |          |           |          |   |
|           |          |           |          |           |          |   |
| Retention | Area     | Retention | Area     | Retention | Area     |   |
| 25.68     | 672901   | 23.28     | 618544   | 23.19     | 503866   |   |
| 32.16     | 560014   | 32.69     | 515455   | 32.72     | 508918   | 1 |
| 32.85     | 760763   | 33.55     | 747985   | 33.58     | 619342   | 2 |
| 38.61     | 757962   | 39.36     | 704008   | 39.35     | 994008   | 3 |
|           |          |           |          |           |          | 4 |
| 40.93     | 6496080  | 41.54     | 6388192  | 41.45     | 6636686  | 5 |
| 42.77     | 1078121  | 43.33     | 1107784  | 43.21     | 1144489  | 6 |
| 44.39     | 28763187 | 44.79     | 28205818 | 44.73     | 28451885 | 7 |
| 46.87     | 796916   | 47.07     | 735263   | 46.99     | 769447   | 8 |
| 47.91     | 556229   | 48.06     | 521656   | 48.05     | 525393   |   |
| 49.19     | 500358   | 49.30     | 439725   | 49.35     | 468829   |   |

|           |          |           |          |           |          |    |
|-----------|----------|-----------|----------|-----------|----------|----|
| Day 8     |          |           |          |           |          |    |
|           |          |           |          |           |          |    |
| Retention | Area     | Retention | Area     | Retention | Area     |    |
| 14.57     | 355928   | 14.37     | 376906   | 14.12     | 384667   | 1  |
| 23.72     | 724704   | 23.71     | 659351   | 23.35     | 690456   | 2  |
| 37.60     | 388048   | 36.96     | 406289   | 36.91     | 416152   | 3  |
| 39.95     | 1735597  | 39.51     | 1661892  | 39.37     | 1722710  | 4  |
| 41.99     | 7632661  | 41.84     | 7486572  | 41.52     | 7746509  | 5  |
| 43.71     | 1634386  | 43.77     | 1599650  | 43.32     | 1613607  | 6  |
| 45.12     | 40883336 | 45.31     | 40615939 | 44.81     | 41238027 | 7  |
| 48.71     | 949369   | 48.76     | 946422   | 48.29     | 927111   | 8  |
| 50.07     | 672827   | 49.95     | 660629   | 49.50     | 690297   | 9  |
|           |          |           |          |           |          | 10 |
|           |          |           |          |           |          |    |
| Retention | Area     | Retention | Area     | Retention | Area     |    |
| 40.04     | 311575   | 40.08     | 320426   | 39.72     | 276650   | 1  |
| 42.06     | 3596849  | 42.17     | 3526002  | 42.03     | 3477204  | 2  |
| 43.81     | 515927   | 43.89     | 528836   | 43.98     | 558583   | 3  |
| 45.39     | 12191329 | 45.43     | 11506253 | 45.60     | 11744066 | 4  |
| 47.86     | 1281595  | 47.91     | 1049393  | 47.98     | 1407877  | 5  |
| 48.95     | 414840   | 48.97     | 240338   | 48.97     | 491125   | 6  |
| 50.22     | 877372   | 50.24     | 403899   | 50.16     | 906004   | 7  |
|           |          |           |          |           |          | 8  |
|           |          |           |          |           |          |    |
|           |          |           |          |           |          |    |
|           |          |           |          |           |          |    |
|           |          |           |          |           |          |    |
|           |          | 23.56     | 426888   | 23.66     | 439227   | 1  |
| 32.09     | 392081   | 33.13     | 390036   | 33.27     | 367327   | 2  |
| 33.17     | 490010   | 33.99     | 508404   | 34.17     | 480024   | 3  |
| 39.25     | 378975   | 39.58     | 374598   | 39.99     | 375177   | 4  |
| 41.47     | 4284334  | 41.70     | 4781096  | 42.07     | 4760764  | 5  |
| 42.10     | 517907   |           |          |           |          | 6  |
| 43.36     | 706194   | 43.48     | 617720   | 43.77     | 618455   | 7  |
| 44.96     | 15044078 | 44.98     | 14925487 | 45.23     | 14741678 | 8  |
| 47.35     | 742561   | 47.29     | 645374   | 47.51     | 783533   | 9  |
|           |          |           |          |           |          | 10 |
|           |          |           |          |           |          | 11 |

|           |          |           |          |           |          |    |
|-----------|----------|-----------|----------|-----------|----------|----|
|           |          | Day 12    |          |           |          |    |
|           |          |           |          |           |          |    |
| Retention | Area     | Retention | Area     | Retention | Area     |    |
| 15.11     | 454664.9 | 15.11     | 452719.7 | 14.96     | 461535.8 | 1  |
| 24.54     | 655011.8 | 24.26     | 670677   | 24.15     | 663048.4 | 2  |
| 38.24     | 404025.1 | 37.91     | 408757.5 | 37.80     | 440429.2 | 3  |
| 40.58     | 1583473  | 40.34     | 1543162  | 40.32     | 1520268  | 4  |
| 42.67     | 8627300  | 42.44     | 8696592  | 42.49     | 8680285  | 5  |
| 44.49     | 1536159  | 44.19     | 1725272  | 44.24     | 1822208  | 6  |
| 45.98     | 38112416 | 45.74     | 38346201 | 45.61     | 38424025 | 7  |
| 47.06     | 1057701  | 46.85     | 1056327  | 46.62     | 1052688  | 8  |
| 49.47     | 949771.7 | 49.32     | 965280.4 | 48.99     | 940621.2 | 9  |
| 50.67     | 726767.2 | 50.53     | 704158.9 | 50.30     | 687341.8 | 10 |
|           |          |           |          |           |          |    |
| Retention | Area     | Retention | Area     | Retention | Area     |    |
| 40.68     | 266349.4 | 40.71     | 252596.9 | 40.59     | 254613.2 | 1  |
| 42.87     | 3383361  | 42.85     | 3335137  | 42.76     | 3339234  | 2  |
| 44.72     | 522670.5 | 46.34     | 7951365  | 46.24     | 7788928  | 3  |
| 46.32     | 8198144  | 47.37     | 722571.7 | 47.26     | 630889.7 | 4  |
| 47.34     | 860082.6 | 48.71     | 1021561  | 48.62     | 938520.7 |    |
| 48.68     | 1335954  | 49.73     | 277366.7 | 49.65     | 183583.4 |    |
| 49.70     | 424325.6 | 50.92     | 432352.3 | 50.82     | 345266.7 |    |
| 50.89275  | 898881.9 |           |          |           |          |    |
|           |          |           |          |           |          |    |
|           |          |           |          |           |          |    |
|           |          |           |          |           |          |    |
| Retention | Area     | Retention | Area     | Retention | Area     |    |
| 23.67     | 361823   | 24.46     | 324222   | 24.63     | 303825   |    |
| 33.31     | 415889   | 33.99     | 427258   | 34.04     | 445163   | 1  |
| 34.17     | 528518   | 34.85     | 537394   | 34.88     | 552882   | 2  |
| 36.56     | 233048   | 37.29     | 246003   | 40.59     | 345274   | 3  |
| 39.66     | 408436   | 40.42     | 363288   | 42.92     | 5006049  | 4  |
| 41.94     | 4395899  | 42.64     | 4984376  | 44.81     | 644219   | 5  |
| 42.59     | 619356   | 44.58     | 548694   | 46.30     | 11601809 | 6  |
| 43.96     | 543601   | 46.13     | 11537019 | 47.29     | 669045   |    |
| 45.57     | 11694003 | 47.15     | 581718   | 48.59     | 760543   |    |
| 46.60     | 560013   | 48.46     | 677710   |           |          |    |
| 47.99     | 653965   |           |          |           |          |    |

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|-----------|----------|-----------|----------|-----------|----------|----|
|           |          | Day 16    |          |           |          |    |
|           |          |           |          |           |          |    |
| Retention | Area     | Retention | Area     | Retention | Area     |    |
| 14.00     | 504292.9 | 14.15     | 524414.4 | 14.13     | 522536.9 | 1  |
| 23.34     | 640677.4 | 23.43     | 663170.8 | 23.57     | 651032.5 | 2  |
| 37.00     | 546353.4 | 37.09     | 580859.8 | 37.23     | 546255   | 3  |
| 39.47     | 1308471  | 39.57     | 1433849  | 39.71     | 1372741  | 4  |
| 41.70     | 9761628  | 41.79     | 9857603  | 41.94     | 9840957  | 5  |
| 43.55     | 1589205  | 43.63     | 1622609  | 43.78     | 1597691  | 6  |
| 45.01     | 37465827 | 45.10     | 37474160 | 45.22     | 37384317 | 7  |
| 45.95     | 1031919  | 46.07     | 1033012  | 46.17     | 1005860  | 8  |
| 48.31     | 971402.4 | 48.45     | 968017.1 | 48.52     | 915236.2 | 9  |
| 49.49     | 741394.4 | 49.61     | 727779.4 | 49.71     | 689470.6 | 10 |
|           |          |           |          |           |          |    |
| Retention | Area     | Retention | Area     | Retention | Area     |    |
| 42.06     | 3159527  | 41.80     | 2935413  | 41.64     | 2913274  | 1  |
| 45.40     | 5834837  | 45.09     | 5448350  | 45.09     | 5433216  | 2  |
| 46.44     | 495411.9 | 46.07     | 471466.9 | 46.11     | 458581.8 | 3  |
| 47.77     | 698669.7 | 47.23     | 692706.2 | 47.36     | 654357.7 | 4  |
|           |          |           |          |           |          |    |
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|           |          |           |          |           |          |    |
|           |          |           |          |           |          |    |
| Retention | Area     | Retention | Area     | Retention | Area     |    |
| 32.87     | 212761.8 | 33.24     | 239090.1 | 33.35     | 222224.7 | 1  |
| 33.75     | 272055.7 | 34.09     | 268075.8 | 34.18     | 268479.6 | 2  |
| 41.65     | 3008321  | 42.06     | 3005321  | 42.31     | 2891824  | 3  |
| 45.05     | 5156948  | 45.75     | 4951129  | 45.63     | 4885017  | 4  |
| 46.03     | 350083.7 | 48.00     | 449295.8 | 47.82     | 407614.5 |    |
| 47.14     | 476194   |           |          |           |          |    |

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|-----------|----------|-----------|----------|-----------|----------|
|           |          | Day 20    |          |           |          |
|           |          |           |          |           |          |
| Retention | Area     | Retention | Area     | Retention | Area     |
| 14.60     | 545214   | 14.39     | 530274   | 14.29     | 553470   |
| 23.73     | 595170   | 23.60     | 583484   | 23.46     | 609338   |
| 37.43     | 567459   | 37.19     | 566102   | 37.24     | 579991   |
| 39.84     | 1219963  | 39.58     | 1223246  | 39.68     | 1389652  |
| 41.95     | 10237686 | 41.69     | 10280616 | 41.80     | 10396204 |
| 43.76     | 1657420  | 43.50     | 1633321  | 43.61     | 1747501  |
| 45.16     | 33690028 | 45.05     | 33680876 | 45.01     | 33627305 |
| 46.19     | 960216   | 46.19     | 937270   | 46.01     | 962088   |
| 48.73     | 835762   | 48.72     | 920728   | 48.30     | 846148   |
| 50.00     | 635997   | 49.93472  | 656076   | 49.43     | 641222   |
|           |          |           |          |           |          |
| Retention | Area     | Retention | Area     | Retention | Area     |
| 42.33     | 2921708  | 41.97     | 2889695  | 41.93     | 2921715  |
| 45.68     | 5162393  | 45.55     | 4972902  | 45.51     | 5156621  |
| 46.67     | 449118   | 46.60     | 390563   | 46.52     | 452491   |
| 47.94     | 580852   | 47.87     | 559937   | 47.83     | 586074   |
|           |          |           |          |           |          |
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|           |          |           |          |           |          |
| Retention | Area     | Retention | Area     | Retention | Area     |
| 33.52     | 225714.7 | 33.59     | 214286.5 | 33.59     | 214286   |
| 34.40     | 273531.3 | 34.47     | 272770.1 | 34.47     | 272770   |
| 42.36     | 2731635  | 42.12     | 2721130  | 42.12     | 2721130  |
| 45.76     | 3600619  | 45.67     | 3721050  | 45.67     | 3721050  |

|        | R.ace.Catechin |            |
|--------|----------------|------------|
|        | 32.68 min      | 33.55 min  |
|        | New peak 1     | New peak 2 |
| Day 0  | 0              | 0          |
| Day 0  | 0              | 0          |
| Day 0  | 0              | 0          |
| Day 2  | 217137         | 247381     |
| Day 2  | 229963         | 262809     |
| Day 2  | 224680         | 240207     |
| Day 4  | 560014         | 760763     |
| Day 4  | 515455         | 747985     |
| Day 4  | 508918         | 619342     |
| Day 8  | 392081         | 490010     |
| Day 8  | 390036         | 508404     |
| Day 8  | 367327         | 480024     |
| Day 12 | 415889         | 528518     |
| Day 12 | 427258         | 537394     |
| Day 12 | 445163         | 552882     |
| Day 16 | 212762         | 272056     |
| Day 16 | 239090         | 268076     |
| Day 16 | 222225         | 268480     |
| Day 20 | 225715         | 273531     |
| Day 20 | 214286         | 272770     |
| Day 20 | 214286         | 272770     |

