

3603-KKZFU

Instrument 6890

C:\HPCHEM\2\DATA\2018\  
36030001.D

Geranium Rose

HP-5 5% Phenyl Methyl Siloxane

3603-KKZFU

30.000m

Egypt

250.000um

pelargonium graveolens var.

0.250um

roseum

Sample/Solvent: 0.06g/0.63g

Injection: 0.2uL

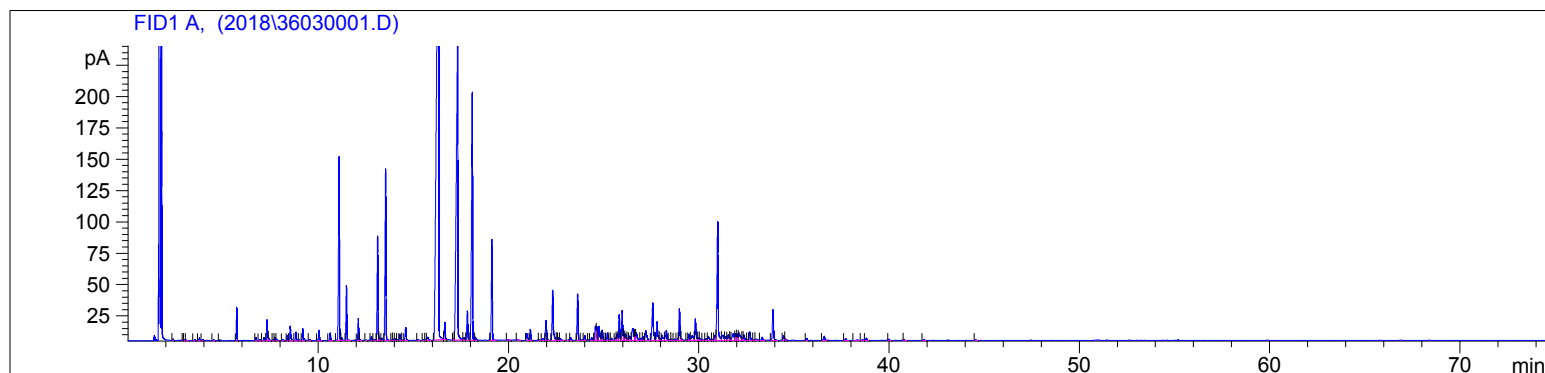
15:1 Split Ratio

9/25/2018 10:06:29 AM

9/25/2018

9/25/2018 10:06:29 AM

11:40:53 AM



| #  | Compound Name      | Meas. Ret. | Amount | Response | Height | Area   | Area % |
|----|--------------------|------------|--------|----------|--------|--------|--------|
| 1  |                    | 2.36       | 100.00 | 2.04     | 1.20   | 2.04   | 0.02   |
| 2  |                    | 2.89       | 100.00 | 1.25     | 0.59   | 1.25   | 0.01   |
| 3  |                    | 2.94       | 100.00 | 1.83     | 0.75   | 1.83   | 0.02   |
| 4  |                    | 3.07       | 100.00 | 2.80     | 0.60   | 2.80   | 0.03   |
| 5  |                    | 3.51       | 100.00 | 2.04     | 1.10   | 2.04   | 0.02   |
| 6  |                    | 3.74       | 100.00 | 6.17     | 2.41   | 6.17   | 0.06   |
| 7  |                    | 3.95       | 100.00 | 3.63     | 0.98   | 3.63   | 0.04   |
| 8  |                    | 4.50       | 100.00 | 2.75     | 0.68   | 2.75   | 0.03   |
| 9  |                    | 4.79       | 100.00 | 1.52     | 0.60   | 1.52   | 0.01   |
| 10 | alpha pinene       | 5.71       | 100.00 | 58.69    | 26.68  | 58.69  | 0.57   |
| 11 |                    | 6.72       | 100.00 | 6.71     | 2.57   | 6.71   | 0.07   |
| 12 |                    | 6.92       | 100.00 | 3.05     | 0.72   | 3.05   | 0.03   |
| 13 |                    | 7.14       | 100.00 | 9.47     | 2.49   | 9.47   | 0.09   |
| 14 | myrcene            | 7.30       | 100.00 | 54.03    | 16.72  | 54.03  | 0.52   |
| 15 |                    | 7.39       | 100.00 | 8.03     | 2.08   | 8.03   | 0.08   |
| 16 |                    | 7.63       | 100.00 | 2.76     | 0.87   | 2.76   | 0.03   |
| 17 |                    | 7.72       | 100.00 | 7.42     | 2.73   | 7.42   | 0.07   |
| 18 |                    | 7.81       | 100.00 | 3.96     | 1.27   | 3.96   | 0.04   |
| 19 |                    | 8.12       | 100.00 | 2.90     | 0.87   | 2.90   | 0.03   |
| 20 | para cymene        | 8.37       | 100.00 | 10.35    | 3.96   | 10.35  | 0.10   |
| 21 | 1,8-cineol         | 8.52       | 100.00 | 39.82    | 11.51  | 39.82  | 0.39   |
| 22 | cis-beta ocimene   | 8.83       | 100.00 | 20.96    | 6.86   | 20.96  | 0.20   |
| 23 |                    | 9.01       | 100.00 | 2.66     | 0.68   | 2.66   | 0.03   |
| 24 | trans-beta ocimene | 9.20       | 100.00 | 32.85    | 9.74   | 32.85  | 0.32   |
| 25 |                    | 9.57       | 100.00 | 4.34     | 1.07   | 4.34   | 0.04   |
| 26 | cis-linalool oxide | 10.05      | 100.00 | 28.75    | 8.32   | 28.75  | 0.28   |
| 27 | terpinolene        | 10.63      | 100.00 | 20.44    | 6.07   | 20.44  | 0.20   |
| 28 | linalool           | 11.11      | 100.00 | 486.08   | 146.66 | 486.08 | 4.72   |
| 29 |                    | 11.24      | 100.00 | 9.06     | 2.32   | 9.06   | 0.09   |
| 30 | cis-rose oxide     | 11.49      | 100.00 | 126.67   | 43.82  | 126.67 | 1.23   |
| 31 | trans-rose oxide   | 12.11      | 100.00 | 51.13    | 17.51  | 51.13  | 0.50   |
| 32 |                    | 12.20      | 100.00 | 3.57     | 0.95   | 3.57   | 0.03   |
| 33 |                    | 12.54      | 100.00 | 2.21     | 0.54   | 2.21   | 0.02   |
| 34 | camphor            | 12.80      | 100.00 | 10.78    | 3.24   | 10.78  | 0.10   |
| 35 |                    | 12.96      | 100.00 | 3.60     | 0.92   | 3.60   | 0.04   |
| 36 | menthone           | 13.13      | 100.00 | 266.24   | 83.43  | 266.24 | 2.59   |

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| #  | Compound Name          | Meas. Ret. | Amount | Response | Height | Area    | Area % |
|----|------------------------|------------|--------|----------|--------|---------|--------|
| 37 |                        | 13.22      | 100.00 | 7.34     | 2.26   | 7.34    | 0.07   |
| 38 |                        | 13.35      | 100.00 | 7.14     | 2.00   | 7.14    | 0.07   |
| 39 | isomenthone            | 13.55      | 100.00 | 466.47   | 136.86 | 466.47  | 4.53   |
| 40 |                        | 13.89      | 100.00 | 1.72     | 0.57   | 1.72    | 0.02   |
| 41 |                        | 13.95      | 100.00 | 4.58     | 1.20   | 4.58    | 0.04   |
| 42 |                        | 14.06      | 100.00 | 5.03     | 1.35   | 5.03    | 0.05   |
| 43 |                        | 14.17      | 100.00 | 3.18     | 0.68   | 3.18    | 0.03   |
| 44 | cis-pinocarveol        | 14.30      | 100.00 | 16.40    | 4.91   | 16.40   | 0.16   |
| 45 |                        | 14.38      | 100.00 | 2.05     | 0.59   | 2.05    | 0.02   |
| 46 | alpha terpineol        | 14.60      | 100.00 | 38.78    | 10.68  | 38.78   | 0.38   |
| 47 |                        | 15.24      | 100.00 | 4.90     | 0.84   | 4.90    | 0.05   |
| 48 |                        | 15.53      | 100.00 | 3.20     | 0.77   | 3.20    | 0.03   |
| 49 |                        | 15.64      | 100.00 | 2.53     | 0.64   | 2.53    | 0.02   |
| 50 |                        | 15.76      | 100.00 | 14.28    | 2.53   | 14.28   | 0.14   |
| 51 | citronellol            | 16.34      | 100.00 | 3353.53  | 431.08 | 3353.53 | 32.58  |
| 52 | neral                  | 16.66      | 100.00 | 44.07    | 13.84  | 44.07   | 0.43   |
| 53 |                        | 17.13      | 100.00 | 3.43     | 1.24   | 3.43    | 0.03   |
| 54 | geraniol               | 17.33      | 100.00 | 1355.61  | 240.43 | 1355.61 | 13.17  |
| 55 |                        | 17.67      | 100.00 | 10.51    | 1.96   | 10.51   | 0.10   |
| 56 | geranial               | 17.85      | 100.00 | 81.88    | 23.29  | 81.88   | 0.80   |
| 57 | citronellyl formate    | 18.11      | 100.00 | 742.53   | 197.88 | 742.53  | 7.21   |
| 58 |                        | 18.27      | 100.00 | 9.92     | 2.52   | 9.92    | 0.10   |
| 59 | geranyl formate        | 19.14      | 100.00 | 266.43   | 80.43  | 266.43  | 2.59   |
| 60 |                        | 19.99      | 100.00 | 3.01     | 0.61   | 3.01    | 0.03   |
| 61 |                        | 20.47      | 100.00 | 3.25     | 0.56   | 3.25    | 0.03   |
| 62 | alpha terpinyl acetate | 20.97      | 100.00 | 23.74    | 5.56   | 23.74   | 0.23   |
| 63 | eugenol                | 21.16      | 100.00 | 29.72    | 9.01   | 29.72   | 0.29   |
| 64 |                        | 21.62      | 100.00 | 2.37     | 0.50   | 2.37    | 0.02   |
| 65 |                        | 21.80      | 100.00 | 6.38     | 1.48   | 6.38    | 0.06   |
| 66 | alpha copaene          | 21.98      | 100.00 | 56.45    | 16.19  | 56.45   | 0.55   |
| 67 |                        | 22.07      | 100.00 | 2.15     | 0.60   | 2.15    | 0.02   |
| 68 | geranyl acetate        | 22.33      | 100.00 | 169.90   | 39.92  | 169.90  | 1.65   |
| 69 |                        | 22.54      | 100.00 | 3.40     | 0.92   | 3.40    | 0.03   |
| 70 |                        | 22.63      | 100.00 | 7.55     | 2.05   | 7.55    | 0.07   |
| 71 |                        | 22.73      | 100.00 | 7.30     | 1.47   | 7.30    | 0.07   |
| 72 |                        | 23.17      | 100.00 | 2.66     | 0.52   | 2.66    | 0.03   |
| 73 |                        | 23.28      | 100.00 | 8.15     | 2.14   | 8.15    | 0.08   |
| 74 | beta caryophyllene     | 23.64      | 100.00 | 132.39   | 36.94  | 132.39  | 1.29   |
| 75 |                        | 23.87      | 100.00 | 3.97     | 0.71   | 3.97    | 0.04   |
| 76 |                        | 24.01      | 100.00 | 15.03    | 3.87   | 15.03   | 0.15   |
| 77 |                        | 24.21      | 100.00 | 1.70     | 0.51   | 1.70    | 0.02   |
| 78 |                        | 24.38      | 100.00 | 11.26    | 2.25   | 11.26   | 0.11   |
| 79 | 6,9-guaiadiene         | 24.57      | 100.00 | 41.80    | 11.38  | 41.80   | 0.41   |
| 80 | citronellyl propanoate | 24.64      | 100.00 | 39.57    | 11.52  | 39.57   | 0.38   |
| 81 |                        | 24.77      | 100.00 | 51.50    | 11.35  | 51.50   | 0.50   |
| 82 |                        | 24.93      | 100.00 | 32.61    | 8.23   | 32.61   | 0.32   |
| 83 |                        | 25.04      | 100.00 | 3.18     | 0.91   | 3.18    | 0.03   |
| 84 |                        | 25.20      | 100.00 | 23.58    | 5.82   | 23.58   | 0.23   |
| 85 |                        | 25.30      | 100.00 | 3.04     | 0.81   | 3.04    | 0.03   |
| 86 |                        | 25.42      | 100.00 | 8.43     | 1.80   | 8.43    | 0.08   |
| 87 |                        | 25.62      | 100.00 | 8.05     | 2.22   | 8.05    | 0.08   |
| 88 |                        | 25.72      | 100.00 | 19.36    | 5.36   | 19.36   | 0.19   |
| 89 | geranyl propanoate     | 25.83      | 100.00 | 77.94    | 20.48  | 77.94   | 0.76   |
| 90 | germacrene D           | 25.98      | 100.00 | 88.53    | 24.02  | 88.53   | 0.86   |
| 91 |                        | 26.07      | 100.00 | 18.11    | 5.16   | 18.11   | 0.18   |

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|-----|------------------------|------------|--------|----------|--------|--------|--------|
| 92  |                        | 26.16      | 100.00 | 20.09    | 5.13   | 20.09  | 0.20   |
| 93  |                        | 26.24      | 100.00 | 4.94     | 1.34   | 4.94   | 0.05   |
| 94  |                        | 26.37      | 100.00 | 15.24    | 3.50   | 15.24  | 0.15   |
| 95  | gamma cadinene         | 26.56      | 100.00 | 64.45    | 9.50   | 64.45  | 0.63   |
| 96  |                        | 26.66      | 100.00 | 14.68    | 4.31   | 14.68  | 0.14   |
| 97  |                        | 26.73      | 100.00 | 31.14    | 6.08   | 31.14  | 0.30   |
| 98  |                        | 26.98      | 100.00 | 9.65     | 1.86   | 9.65   | 0.09   |
| 99  |                        | 27.08      | 100.00 | 11.01    | 2.79   | 11.01  | 0.11   |
| 100 | delta cadinene         | 27.22      | 100.00 | 42.69    | 7.78   | 42.69  | 0.41   |
| 101 | cis-calamenene         | 27.59      | 100.00 | 143.82   | 29.88  | 143.82 | 1.40   |
| 102 |                        | 27.81      | 100.00 | 64.35    | 15.10  | 64.35  | 0.63   |
| 103 |                        | 27.96      | 100.00 | 5.61     | 1.63   | 5.61   | 0.05   |
| 104 | citronellyl n-butyrate | 28.08      | 100.00 | 20.78    | 4.15   | 20.78  | 0.20   |
| 105 | trans-calamenene       | 28.30      | 100.00 | 38.29    | 7.78   | 38.29  | 0.37   |
| 106 |                        | 28.50      | 100.00 | 4.95     | 0.94   | 4.95   | 0.05   |
| 107 |                        | 28.57      | 100.00 | 4.25     | 0.96   | 4.25   | 0.04   |
| 108 |                        | 28.73      | 100.00 | 4.54     | 0.96   | 4.54   | 0.04   |
| 109 |                        | 28.88      | 100.00 | 4.12     | 1.04   | 4.12   | 0.04   |
| 110 | geranyl n-butyrate     | 28.99      | 100.00 | 90.74    | 25.54  | 90.74  | 0.88   |
| 111 |                        | 29.08      | 100.00 | 7.04     | 1.46   | 7.04   | 0.07   |
| 112 |                        | 29.39      | 100.00 | 2.95     | 0.79   | 2.95   | 0.03   |
| 113 |                        | 29.49      | 100.00 | 19.78    | 4.87   | 19.78  | 0.19   |
| 114 |                        | 29.66      | 100.00 | 24.86    | 3.77   | 24.86  | 0.24   |
| 115 | phenethyl tiglate      | 29.83      | 100.00 | 75.50    | 17.07  | 75.50  | 0.73   |
| 116 |                        | 29.99      | 100.00 | 8.84     | 1.90   | 8.84   | 0.09   |
| 117 |                        | 30.07      | 100.00 | 7.35     | 1.43   | 7.35   | 0.07   |
| 118 |                        | 30.24      | 100.00 | 3.24     | 0.56   | 3.24   | 0.03   |
| 119 |                        | 30.38      | 100.00 | 6.53     | 1.32   | 6.53   | 0.06   |
| 120 |                        | 30.51      | 100.00 | 18.10    | 3.22   | 18.10  | 0.18   |
| 121 |                        | 30.72      | 100.00 | 4.89     | 0.93   | 4.89   | 0.05   |
| 122 |                        | 30.86      | 100.00 | 16.08    | 3.99   | 16.08  | 0.16   |
| 123 | 10-epi-gamma-eudesmol  | 31.00      | 100.00 | 401.60   | 94.69  | 401.60 | 3.90   |
| 124 |                        | 31.28      | 100.00 | 29.44    | 4.15   | 29.44  | 0.29   |
| 125 |                        | 31.42      | 100.00 | 14.45    | 2.97   | 14.45  | 0.14   |
| 126 |                        | 31.56      | 100.00 | 20.63    | 4.31   | 20.63  | 0.20   |
| 127 |                        | 31.64      | 100.00 | 6.38     | 1.62   | 6.38   | 0.06   |
| 128 |                        | 31.83      | 100.00 | 38.59    | 5.52   | 38.59  | 0.37   |
| 129 | beta eudesmol          | 31.94      | 100.00 | 22.14    | 5.37   | 22.14  | 0.22   |
| 130 |                        | 32.03      | 100.00 | 20.27    | 4.93   | 20.27  | 0.20   |
| 131 | alpha eudesmol         | 32.13      | 100.00 | 39.04    | 5.86   | 39.04  | 0.38   |
| 132 |                        | 32.30      | 100.00 | 5.91     | 1.71   | 5.91   | 0.06   |
| 133 | 7-epi-alpha eudesmol   | 32.38      | 100.00 | 19.45    | 4.22   | 19.45  | 0.19   |
| 134 |                        | 32.57      | 100.00 | 3.25     | 0.59   | 3.25   | 0.03   |
| 135 |                        | 32.70      | 100.00 | 29.06    | 6.70   | 29.06  | 0.28   |
| 136 |                        | 32.89      | 100.00 | 4.10     | 0.74   | 4.10   | 0.04   |
| 137 |                        | 33.05      | 100.00 | 9.36     | 1.01   | 9.36   | 0.09   |
| 138 |                        | 33.34      | 100.00 | 12.12    | 2.56   | 12.12  | 0.12   |
| 139 | geranyl tiglate        | 33.91      | 100.00 | 99.25    | 24.54  | 99.25  | 0.96   |
| 140 |                        | 34.46      | 100.00 | 13.77    | 3.60   | 13.77  | 0.13   |
| 141 |                        | 34.54      | 100.00 | 3.82     | 1.20   | 3.82   | 0.04   |
| 142 |                        | 35.67      | 100.00 | 6.85     | 1.74   | 6.85   | 0.07   |
| 143 |                        | 36.60      | 100.00 | 17.12    | 3.21   | 17.12  | 0.17   |
| 144 |                        | 37.73      | 100.00 | 5.88     | 1.39   | 5.88   | 0.06   |
| 145 |                        | 38.34      | 100.00 | 3.82     | 0.55   | 3.82   | 0.04   |
| 146 |                        | 38.60      | 100.00 | 3.18     | 0.66   | 3.18   | 0.03   |

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| 147 |               | 38.82      | 100.00 | 8.36     | 1.83   | 8.36 | 0.08   |
| 148 |               | 40.00      | 100.00 | 4.63     | 1.01   | 4.63 | 0.04   |
| 149 |               | 40.79      | 100.00 | 3.27     | 0.68   | 3.27 | 0.03   |
| 150 |               | 41.84      | 100.00 | 3.13     | 0.69   | 3.13 | 0.03   |
| 151 |               | 44.54      | 100.00 | 2.61     | 0.53   | 2.61 | 0.03   |

