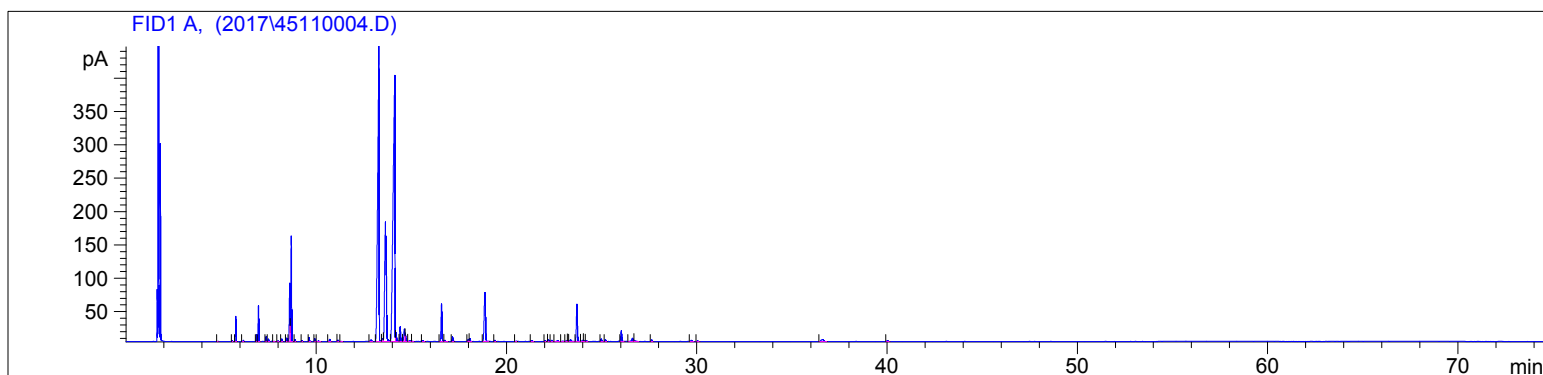


Peppermint (Organic)
4511-JJBEU
India
mentha piperita
Sample/CH4: 0.05g/0.53g
Injection: 0.2uL

HP-5 5% Phenyl Methyl Siloxane
30.000m
250.000um
0.250um

10/25/2017 2:50:07 PM
10/25/2017 2:50:07 PM

3/7/2018
2:35:26 PM



| # | Compound Name | Meas. Ret. | Amount | Response | Height | Area | Area % |
|----|----------------------------|------------|--------|----------|--------|---------|--------|
| 1 | | 4.83 | 100.00 | 1.97 | 0.97 | 1.97 | 0.02 |
| 2 | alpha thujene | 5.58 | 100.00 | 3.08 | 1.49 | 3.08 | 0.04 |
| 3 | alpha pinene | 5.77 | 100.00 | 82.23 | 38.16 | 82.23 | 0.97 |
| 4 | camphene | 6.16 | 100.00 | 5.34 | 2.07 | 5.34 | 0.06 |
| 5 | sabinene | 6.85 | 100.00 | 24.83 | 10.54 | 24.83 | 0.29 |
| 6 | beta pinene | 6.96 | 100.00 | 131.23 | 53.98 | 131.23 | 1.56 |
| 7 | myrcene | 7.36 | 100.00 | 17.88 | 7.50 | 17.88 | 0.21 |
| 8 | 3-octanol | 7.48 | 100.00 | 9.92 | 3.80 | 9.92 | 0.12 |
| 9 | | 7.78 | 100.00 | 3.12 | 0.85 | 3.12 | 0.04 |
| 10 | | 7.98 | 100.00 | 2.29 | 0.91 | 2.29 | 0.03 |
| 11 | delta-3 carene | 8.19 | 100.00 | 10.31 | 4.09 | 10.31 | 0.12 |
| 12 | para cymene | 8.44 | 100.00 | 14.34 | 5.34 | 14.34 | 0.17 |
| 13 | d-limonene | 8.60 | 100.00 | 248.45 | 87.71 | 248.45 | 2.95 |
| 14 | cineol 1,8 | 8.68 | 100.00 | 420.43 | 158.20 | 420.43 | 4.98 |
| 15 | cis-beta ocimene | 8.90 | 100.00 | 7.52 | 2.90 | 7.52 | 0.09 |
| 16 | trans-beta ocimene | 9.26 | 100.00 | 3.79 | 1.51 | 3.79 | 0.04 |
| 17 | gamma terpinene | 9.64 | 100.00 | 17.65 | 6.55 | 17.65 | 0.21 |
| 18 | cis-sabinene hydrate | 9.93 | 100.00 | 12.41 | 4.33 | 12.41 | 0.15 |
| 19 | para-mentha-3,8-diene | 10.12 | 100.00 | 5.63 | 0.97 | 5.63 | 0.07 |
| 20 | terpinolene | 10.71 | 100.00 | 12.38 | 3.69 | 12.38 | 0.15 |
| 21 | trans-sabinene hydrate | 11.15 | 100.00 | 8.30 | 2.50 | 8.30 | 0.10 |
| 22 | linalool | 11.30 | 100.00 | 2.93 | 0.80 | 2.93 | 0.03 |
| 23 | trans-para-menth-2-en-1-ol | 12.89 | 100.00 | 14.10 | 2.72 | 14.10 | 0.17 |
| 24 | menthone | 13.30 | 100.00 | 2334.65 | 447.20 | 2334.65 | 27.68 |
| 25 | isomenthone | 13.49 | 100.00 | 15.92 | 4.15 | 15.92 | 0.19 |
| 26 | menthofuran | 13.65 | 100.00 | 1051.95 | 179.39 | 1051.95 | 12.47 |
| 27 | menthol | 14.13 | 100.00 | 2641.16 | 399.01 | 2641.16 | 31.31 |
| 28 | | 14.21 | 100.00 | 49.25 | 13.44 | 49.25 | 0.58 |
| 29 | terpin-4-ol | 14.42 | 100.00 | 70.71 | 22.18 | 70.71 | 0.84 |
| 30 | alpha terpineol | 14.64 | 100.00 | 65.09 | 18.75 | 65.09 | 0.77 |
| 31 | citronellol | 14.70 | 100.00 | 29.01 | 9.92 | 29.01 | 0.34 |
| 32 | | 14.93 | 100.00 | 12.19 | 1.62 | 12.19 | 0.14 |
| 33 | | 15.04 | 100.00 | 3.53 | 0.77 | 3.53 | 0.04 |
| 34 | | 15.61 | 100.00 | 6.10 | 1.41 | 6.10 | 0.07 |
| 35 | pulegone | 16.59 | 100.00 | 183.27 | 56.36 | 183.27 | 2.17 |
| 36 | carvone | 16.77 | 100.00 | 7.42 | 2.02 | 7.42 | 0.09 |
| 37 | piperitone | 17.17 | 100.00 | 23.54 | 7.06 | 23.54 | 0.28 |

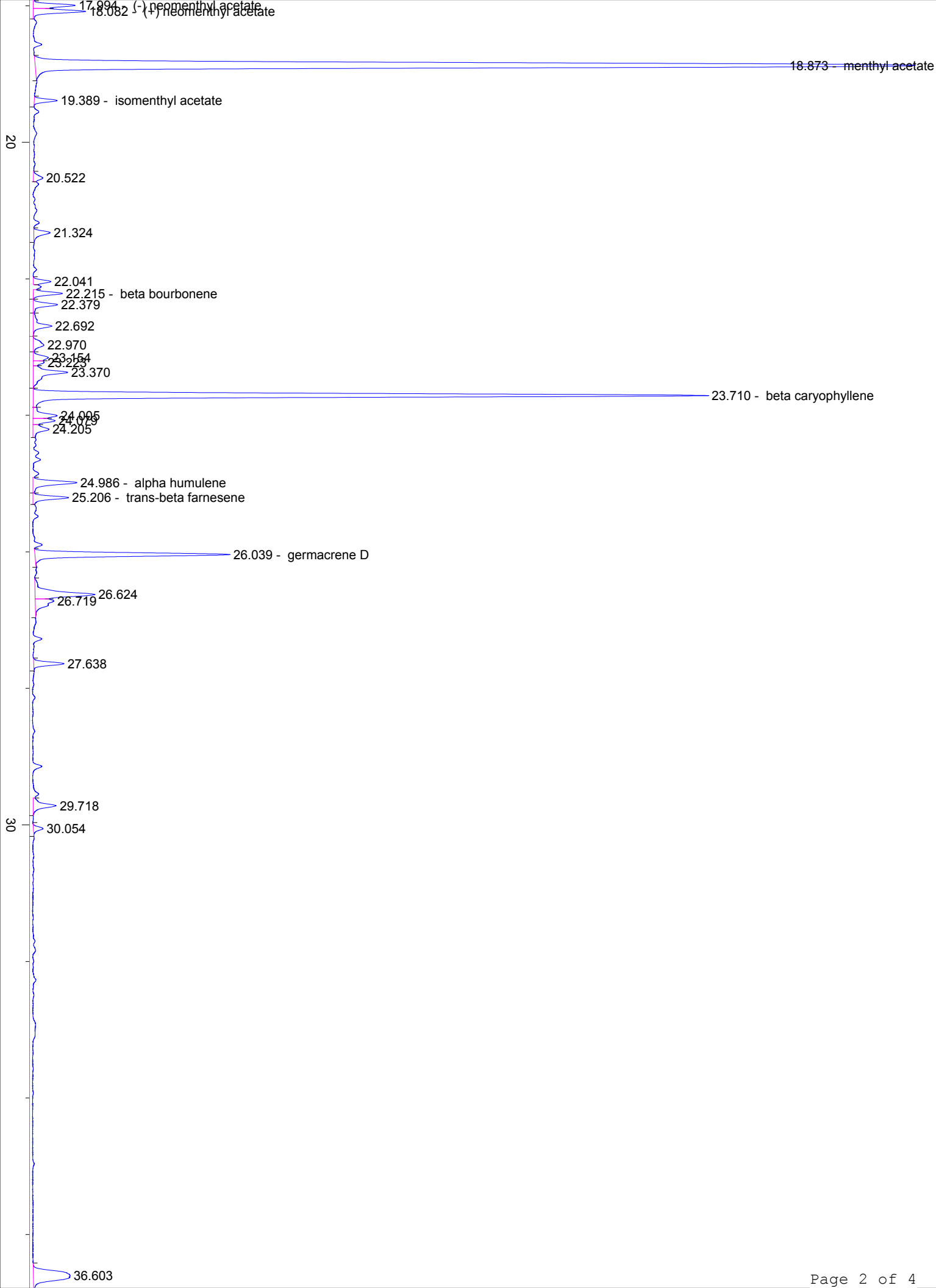
4511-JJBEU

Instrument 6890

C:\HPCHEM\2\DATA\2017\
45110004.DPeppermint (Organic)
4511-JJBEU
India
mentha piperita
Sample/CH4: 0.05g/0.53g
Injection: 0.2uLHP-5 5% Phenyl Methyl Siloxane
30.000m
250.000um
0.250um10/25/2017 2:50:07 PM
10/25/2017 2:50:07 PM3/7/2018
2:35:26 PM

| # | Compound Name | Meas. Ret. | Amount | Response | Height | Area | Area % |
|----|------------------------|------------|--------|----------|--------|--------|--------|
| 38 | (-) neomenthyl acetate | 17.99 | 100.00 | 11.78 | 3.50 | 11.78 | 0.14 |
| 39 | (+) neomenthyl acetate | 18.08 | 100.00 | 15.19 | 4.36 | 15.19 | 0.18 |
| 40 | menthyl acetate | 18.87 | 100.00 | 366.76 | 73.20 | 366.76 | 4.35 |
| 41 | isomenthyl acetate | 19.39 | 100.00 | 6.03 | 1.90 | 6.03 | 0.07 |
| 42 | | 20.52 | 100.00 | 3.61 | 0.78 | 3.61 | 0.04 |
| 43 | | 21.32 | 100.00 | 6.04 | 1.36 | 6.04 | 0.07 |
| 44 | | 22.04 | 100.00 | 5.01 | 1.46 | 5.01 | 0.06 |
| 45 | beta bourbonene | 22.21 | 100.00 | 8.48 | 2.43 | 8.48 | 0.10 |
| 46 | | 22.38 | 100.00 | 7.96 | 2.03 | 7.96 | 0.09 |
| 47 | | 22.69 | 100.00 | 8.08 | 1.55 | 8.08 | 0.10 |
| 48 | | 22.97 | 100.00 | 5.65 | 0.90 | 5.65 | 0.07 |
| 49 | | 23.15 | 100.00 | 5.78 | 1.26 | 5.78 | 0.07 |
| 50 | | 23.22 | 100.00 | 3.12 | 0.91 | 3.12 | 0.04 |
| 51 | | 23.37 | 100.00 | 17.09 | 2.88 | 17.09 | 0.20 |
| 52 | beta caryophyllene | 23.71 | 100.00 | 206.25 | 56.29 | 206.25 | 2.45 |
| 53 | | 24.00 | 100.00 | 9.40 | 2.00 | 9.40 | 0.11 |
| 54 | | 24.08 | 100.00 | 6.95 | 1.82 | 6.95 | 0.08 |
| 55 | | 24.21 | 100.00 | 7.09 | 1.33 | 7.09 | 0.08 |
| 56 | alpha humulene | 24.99 | 100.00 | 15.82 | 3.66 | 15.82 | 0.19 |
| 57 | trans-beta farnesene | 25.21 | 100.00 | 11.16 | 2.97 | 11.16 | 0.13 |
| 58 | germacrene D | 26.04 | 100.00 | 59.59 | 16.25 | 59.59 | 0.71 |
| 59 | | 26.62 | 100.00 | 26.36 | 4.98 | 26.36 | 0.31 |
| 60 | | 26.72 | 100.00 | 10.02 | 1.55 | 10.02 | 0.12 |
| 61 | | 27.64 | 100.00 | 9.08 | 2.52 | 9.08 | 0.11 |
| 62 | | 29.72 | 100.00 | 9.45 | 1.92 | 9.45 | 0.11 |
| 63 | | 30.05 | 100.00 | 3.07 | 0.82 | 3.07 | 0.04 |
| 64 | | 36.60 | 100.00 | 29.65 | 3.06 | 29.65 | 0.35 |
| 65 | | 40.02 | 100.00 | 6.65 | 1.43 | 6.65 | 0.08 |





40.025

50

60

70

min